



June 23, 2020

Vista Work Order No. 2000965

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. 2000965

Case Narrative

Sample Condition on Receipt:

Twenty-three 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 EPA Method 1668 analyses for samples "PDI-150SC-A-00-01-200425" and "PDI-163SC-A-00-01-200425" were assigned to Vista Work Order No. 2000968. Samples "PDI-149SC-A-05-06-200425", "PDI-149SC-A-06-07-200425", "PDI-149SC-A-07-08-200425", "PDI-149SC-A-08-09-200425", "PDI-149SC-A-09-10-200425" and "PDI-150SC-A-10-11-200425" were assigned to Vista Work Order No. 2000957.

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 each preparation batch. No analytes were detected in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

As requested, a duplicate was performed on sample "PDI-163SC-A-02-03-200425". The RPDs were outside of the acceptance criteria for OCDD and 1,2,3,7,8,9-HxCDF.

The labeled standard recovery outside the method acceptance criteria is listed in the table below:

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2000965-07	PDI-150SC-A-06-07-200425	EPA Method 1613B	13C-OCDD	H	15.1

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000965-01	PDI-150SC-A-00-01-200425	25-Apr-20 11:01	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-02	PDI-150SC-A-01-02-200425	DUP25-Apr-20 11:01	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-03	PDI-150SC-A-02-03-200425	25-Apr-20 11:01	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-04	PDI-150SC-A-03-04-200425	25-Apr-20 11:01	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-05	PDI-150SC-A-04-05-200425	25-Apr-20 11:01	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-06	PDI-150SC-A-05-06-200425	25-Apr-20 11:01	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-07	PDI-150SC-A-06-07-200425	25-Apr-20 11:01	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-08	PDI-150SC-A-07-08-200425	25-Apr-20 11:01	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-09	PDI-1163SC-A-01-02-200425	25-Apr-20 11:01	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-10	PDI-163SC-A-00-01-200425	25-Apr-20 08:42	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-11	PDI-163SC-A-01-02-200425	25-Apr-20 08:42	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-12	PDI-163SC-A-02-03-200425	25-Apr-20 08:42	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-13	PDI-163SC-A-03-04-200425	25-Apr-20 08:42	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-14	PDI-163SC-A-04-05-200425	25-Apr-20 08:42	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-15	PDI-163SC-A-05-06-200425	25-Apr-20 08:42	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-16	PDI-163SC-A-06-07-200425	25-Apr-20 08:42	28-Apr-20 09:40	Amber Glass, 120 mL
2000965-17	PDI-163SC-A-07-08-200425	25-Apr-20 08:42	28-Apr-20 09:40	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19		Lab Sample: B0E0020-BLK1 Date Analyzed: 03-Jun-20 10:26 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0642			IS 13C-2,3,7,8-TCDD	89.0	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0885			13C-1,2,3,7,8-PeCDD	83.8	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0619			13C-1,2,3,4,7,8-HxCDD	89.0	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0665			13C-1,2,3,6,7,8-HxCDD	85.1	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0766			13C-1,2,3,7,8,9-HxCDD	85.6	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.125			13C-1,2,3,4,6,7,8-HpCDD	74.1	23 - 140		
OCDD	ND	0.194			13C-OCDD	64.5	17 - 157		
2,3,7,8-TCDF	ND	0.0344			13C-2,3,7,8-TCDF	82.4	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0380			13C-1,2,3,7,8-PeCDF	89.3	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0362			13C-2,3,4,7,8-PeCDF	86.3	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0555			13C-1,2,3,4,7,8-HxCDF	84.4	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0507			13C-1,2,3,6,7,8-HxCDF	89.3	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0531			13C-2,3,4,6,7,8-HxCDF	90.1	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0839			13C-1,2,3,7,8,9-HxCDF	82.5	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0775			13C-1,2,3,4,6,7,8-HpCDF	76.3	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0809			13C-1,2,3,4,7,8,9-HpCDF	80.9	26 - 138		
OCDF	ND	0.121			13C-OCDF	66.1	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	94.7	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.0642							
Total PeCDD	ND		0.0470						
Total HxCDD	ND	0.0766							
Total HpCDD	ND	0.125							
Total TCDF	ND	0.0344							
Total PeCDF	ND		0.00800						
Total HxCDF	ND	0.0839							
Total HpCDF	ND	0.0809							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19		Lab Sample: B0E0020-BS1 Date Analyzed: 03-Jun-20 08:52 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.9	20.0	89.6	67 - 158	IS 13C-2,3,7,8-TCDD	103	20 - 175
1,2,3,7,8-PeCDD	90.9	100	90.9	70 - 142	13C-1,2,3,7,8-PeCDD	101	21 - 227
1,2,3,4,7,8-HxCDD	89.7	100	89.7	70 - 164	13C-1,2,3,4,7,8-HxCDD	101	21 - 193
1,2,3,6,7,8-HxCDD	97.3	100	97.3	76 - 134	13C-1,2,3,6,7,8-HxCDD	94.5	25 - 163
1,2,3,7,8,9-HxCDD	94.7	100	94.7	64 - 162	13C-1,2,3,7,8,9-HxCDD	92.7	21 - 193
1,2,3,4,6,7,8-HpCDD	92.3	100	92.3	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	88.1	26 - 166
OCDD	190	200	94.8	78 - 144	13C-OCDD	75.7	13 - 199
2,3,7,8-TCDF	18.3	20.0	91.7	75 - 158	13C-2,3,7,8-TCDF	102	22 - 152
1,2,3,7,8-PeCDF	92.1	100	92.1	80 - 134	13C-1,2,3,7,8-PeCDF	101	21 - 192
2,3,4,7,8-PeCDF	93.6	100	93.6	68 - 160	13C-2,3,4,7,8-PeCDF	104	13 - 328
1,2,3,4,7,8-HxCDF	95.4	100	95.4	72 - 134	13C-1,2,3,4,7,8-HxCDF	94.8	19 - 202
1,2,3,6,7,8-HxCDF	98.3	100	98.3	84 - 130	13C-1,2,3,6,7,8-HxCDF	99.1	21 - 159
2,3,4,6,7,8-HxCDF	97.0	100	97.0	70 - 156	13C-2,3,4,6,7,8-HxCDF	103	22 - 176
1,2,3,7,8,9-HxCDF	95.9	100	95.9	78 - 130	13C-1,2,3,7,8,9-HxCDF	95.6	17 - 205
1,2,3,4,6,7,8-HpCDF	98.5	100	98.5	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	88.9	21 - 158
1,2,3,4,7,8,9-HpCDF	97.4	100	97.4	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	89.0	20 - 186
OCDF	196	200	97.8	63 - 170	13C-OCDF	82.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	102	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0F0044 Date Extracted: 06-Jun-2020 10:44		Lab Sample: B0F0044-BLK1 Date Analyzed: 18-Jun-20 16:58 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0757			IS 13C-2,3,7,8-TCDD	92.9	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0665			13C-1,2,3,7,8-PeCDD	89.3	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0792			13C-1,2,3,4,7,8-HxCDD	67.4	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0754			13C-1,2,3,6,7,8-HxCDD	82.5	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0975			13C-1,2,3,7,8,9-HxCDD	79.1	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.130			13C-1,2,3,4,6,7,8-HpCDD	65.0	23 - 140		
OCDD	ND	0.162			13C-OCDD	51.2	17 - 157		
2,3,7,8-TCDF	ND	0.0415			13C-2,3,7,8-TCDF	82.9	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0557			13C-1,2,3,7,8-PeCDF	86.0	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0532			13C-2,3,4,7,8-PeCDF	86.2	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0570			13C-1,2,3,4,7,8-HxCDF	72.8	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0492			13C-1,2,3,6,7,8-HxCDF	84.4	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0581			13C-2,3,4,6,7,8-HxCDF	77.4	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0970			13C-1,2,3,7,8,9-HxCDF	73.6	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0887			13C-1,2,3,4,6,7,8-HpCDF	65.8	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.102			13C-1,2,3,4,7,8,9-HpCDF	63.4	26 - 138		
OCDF	ND	0.188			13C-OCDF	53.0	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	107	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.0757							
Total PeCDD	ND	0.0665							
Total HxCDD	ND	0.0975							
Total HpCDD	ND	0.130							
Total TCDF	ND	0.0415							
Total PeCDF	ND	0.0557							
Total HxCDF	ND	0.0970							
Total HpCDF	ND	0.102							

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: B0F0044	Lab Sample: B0F0044-BS1					
Sample Size: 10.0 g	Date Extracted: 06-Jun-2020 10:44	Date Analyzed: 18-Jun-20 14:39	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	19.3	20.0	96.3	67 - 158	IS 13C-2,3,7,8-TCDD	87.5	20 - 175
1,2,3,7,8-PeCDD	101	100	101	70 - 142	13C-1,2,3,7,8-PeCDD	84.7	21 - 227
1,2,3,4,7,8-HxCDD	109	100	109	70 - 164	13C-1,2,3,4,7,8-HxCDD	65.5	21 - 193
1,2,3,6,7,8-HxCDD	105	100	105	76 - 134	13C-1,2,3,6,7,8-HxCDD	81.8	25 - 163
1,2,3,7,8,9-HxCDD	101	100	101	64 - 162	13C-1,2,3,7,8,9-HxCDD	75.7	21 - 193
1,2,3,4,6,7,8-HpCDD	98.6	100	98.6	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	66.8	26 - 166
OCDD	200	200	100	78 - 144	13C-OCDD	53.4	13 - 199
2,3,7,8-TCDF	19.7	20.0	98.5	75 - 158	13C-2,3,7,8-TCDF	80.4	22 - 152
1,2,3,7,8-PeCDF	101	100	101	80 - 134	13C-1,2,3,7,8-PeCDF	85.8	21 - 192
2,3,4,7,8-PeCDF	101	100	101	68 - 160	13C-2,3,4,7,8-PeCDF	83.9	13 - 328
1,2,3,4,7,8-HxCDF	99.0	100	99.0	72 - 134	13C-1,2,3,4,7,8-HxCDF	73.5	19 - 202
1,2,3,6,7,8-HxCDF	99.6	100	99.6	84 - 130	13C-1,2,3,6,7,8-HxCDF	81.1	21 - 159
2,3,4,6,7,8-HxCDF	98.4	100	98.4	70 - 156	13C-2,3,4,6,7,8-HxCDF	77.8	22 - 176
1,2,3,7,8,9-HxCDF	98.4	100	98.4	78 - 130	13C-1,2,3,7,8,9-HxCDF	73.7	17 - 205
1,2,3,4,6,7,8-HpCDF	95.3	100	95.3	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	69.1	21 - 158
1,2,3,4,7,8,9-HpCDF	95.3	100	95.3	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	69.4	20 - 186
OCDF	202	200	101	63 - 170	13C-OCDF	56.4	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	108	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-150SC-A-00-01-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-01 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 11.9 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 11:01	% Solids: 83.9	Date Analyzed : 03-Jun-20 11:13 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0679			IS 13C-2,3,7,8-TCDD	104	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0917			13C-1,2,3,7,8-PeCDD	96.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.129			13C-1,2,3,4,7,8-HxCDD	106	32 - 141	
1,2,3,6,7,8-HxCDD	0.390			J	13C-1,2,3,6,7,8-HxCDD	98.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.158		13C-1,2,3,7,8,9-HxCDD	96.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	10.5				13C-1,2,3,4,6,7,8-HpCDD	79.3	23 - 140	
OCDD	101				13C-OCDD	73.1	17 - 157	
2,3,7,8-TCDF	0.400			J	13C-2,3,7,8-TCDF	93.8	24 - 169	
1,2,3,7,8-PeCDF	1.48			J	13C-1,2,3,7,8-PeCDF	101	24 - 185	
2,3,4,7,8-PeCDF	ND		0.691		13C-2,3,4,7,8-PeCDF	98.7	21 - 178	
1,2,3,4,7,8-HxCDF	2.19			J	13C-1,2,3,4,7,8-HxCDF	96.9	26 - 152	
1,2,3,6,7,8-HxCDF	0.674			J	13C-1,2,3,6,7,8-HxCDF	101	26 - 123	
2,3,4,6,7,8-HxCDF	0.248			J	13C-2,3,4,6,7,8-HxCDF	105	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0689		13C-1,2,3,7,8,9-HxCDF	94.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.96			J	13C-1,2,3,4,6,7,8-HpCDF	87.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.136			13C-1,2,3,4,7,8,9-HpCDF	85.9	26 - 138	
OCDF	4.22			J	13C-OCDF	77.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.591

TOTALS	
Total TCDD	0.214
Total PeCDD	0.243
Total HxCDD	3.35
Total HpCDD	24.0
Total TCDF	1.01
Total PeCDF	3.99
Total HxCDF	5.23
Total HpCDF	5.89

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-150SC-A-01-02-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-02 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 11.3 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 11:01	% Solids: 89.5	Date Analyzed : 03-Jun-20 12:00 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0622			IS 13C-2,3,7,8-TCDD	110	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0816			13C-1,2,3,7,8-PeCDD	103	25 - 181	
1,2,3,4,7,8-HxCDD	ND		0.113		13C-1,2,3,4,7,8-HxCDD	107	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0759			13C-1,2,3,6,7,8-HxCDD	98.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0333			13C-1,2,3,7,8,9-HxCDD	98.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	4.99				13C-1,2,3,4,6,7,8-HpCDD	91.4	23 - 140	
OCDD	54.8				13C-OCDD	82.0	17 - 157	
2,3,7,8-TCDF	ND	0.0448			13C-2,3,7,8-TCDF	105	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0457			13C-1,2,3,7,8-PeCDF	105	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0922		13C-2,3,4,7,8-PeCDF	107	21 - 178	
1,2,3,4,7,8-HxCDF	0.132			J	13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.0736		13C-1,2,3,6,7,8-HxCDF	104	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.0737		13C-2,3,4,6,7,8-HxCDF	109	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0792			13C-1,2,3,7,8,9-HxCDF	98.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.67			J	13C-1,2,3,4,6,7,8-HpCDF	89.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.133			13C-1,2,3,4,7,8,9-HpCDF	93.7	26 - 138	
OCDF	2.03			J	13C-OCDF	83.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

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

TEQMinWHO2005Dioxin 0.0968

TOTALS								
Total TCDD	ND	0.0622						
Total PeCDD	0.156		0.210					
Total HxCDD	1.49		1.60					
Total HpCDD	12.6							
Total TCDF	0.220		0.432					
Total PeCDF	1.28		1.57					
Total HxCDF	1.47		1.84					
Total HpCDF	4.00							

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-150SC-A-02-03-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-03 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 11.7 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 11:01	% Solids: 86.0	Date Analyzed : 03-Jun-20 12:46 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0596			IS 13C-2,3,7,8-TCDD	96.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.112			13C-1,2,3,7,8-PeCDD	93.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0715			13C-1,2,3,4,7,8-HxCDD	93.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0733			13C-1,2,3,6,7,8-HxCDD	89.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0880			13C-1,2,3,7,8,9-HxCDD	87.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.80				13C-1,2,3,4,6,7,8-HpCDD	78.3	23 - 140	
OCDD	ND	0.135			13C-OCDD	67.4	17 - 157	
2,3,7,8-TCDF	ND	0.0557			13C-2,3,7,8-TCDF	90.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0933			13C-1,2,3,7,8-PeCDF	96.0	24 - 185	
2,3,4,7,8-PeCDF	0.0482			J	13C-2,3,4,7,8-PeCDF	99.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.0790		13C-1,2,3,4,7,8-HxCDF	90.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0706			13C-1,2,3,6,7,8-HxCDF	92.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0752			13C-2,3,4,6,7,8-HxCDF	98.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.117			13C-1,2,3,7,8,9-HxCDF	87.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.50			J	13C-1,2,3,4,6,7,8-HpCDF	79.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.136			13C-1,2,3,4,7,8,9-HpCDF	80.7	26 - 138	
OCDF	3.07			J	13C-OCDF	68.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0684

TOTALS			
Total TCDD	ND		0.0629
Total PeCDD	ND		0.118
Total HxCDD	0.454		
Total HpCDD	9.64		
Total TCDF	0.559		
Total PeCDF	1.37		
Total HxCDF	1.44		1.52
Total HpCDF	4.28		

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-150SC-A-03-04-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-04 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 13.0 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 11:01	% Solids: 79.2	Date Analyzed : 03-Jun-20 13:32 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0543			IS 13C-2,3,7,8-TCDD	115	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0833			13C-1,2,3,7,8-PeCDD	106	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0753			13C-1,2,3,4,7,8-HxCDD	106	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0769			13C-1,2,3,6,7,8-HxCDD	103	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0922			13C-1,2,3,7,8,9-HxCDD	103	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.61				13C-1,2,3,4,6,7,8-HpCDD	89.2	23 - 140	
OCDD	30.8				13C-OCDD	79.6	17 - 157	
2,3,7,8-TCDF	ND	0.0451			13C-2,3,7,8-TCDF	107	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0548			13C-1,2,3,7,8-PeCDF	112	24 - 185	
2,3,4,7,8-PeCDF	0.0483			J	13C-2,3,4,7,8-PeCDF	110	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0785			13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.0684		13C-1,2,3,6,7,8-HxCDF	108	26 - 123	
2,3,4,6,7,8-HxCDF	0.0879			J	13C-2,3,4,6,7,8-HxCDF	110	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.108			13C-1,2,3,7,8,9-HxCDF	100	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.46			J	13C-1,2,3,4,6,7,8-HpCDF	94.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0820			13C-1,2,3,4,7,8,9-HpCDF	96.4	26 - 138	
OCDF	1.44			J	13C-OCDF	80.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	109	35 - 197	

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

TEQMinWHO2005Dioxin 0.0737

TOTALS								
Total TCDD	ND	0.0543						
Total PeCDD	ND	0.0833						
Total HxCDD	1.01							
Total HpCDD	6.90							
Total TCDF	0.444		0.526					
Total PeCDF	1.44							
Total HxCDF	1.40		1.47					
Total HpCDF	3.39							

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-150SC-A-04-05-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-05 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 11.3 g	QC Batch: B0F0044 Date Extracted: 06-Jun-2020 10:44
Date Collected: 25-Apr-2020 11:01	% Solids: 89.0	Date Analyzed : 18-Jun-20 22:21 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0599			IS 13C-2,3,7,8-TCDD	95.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0899			13C-1,2,3,7,8-PeCDD	85.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.132			13C-1,2,3,4,7,8-HxCDD	70.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.124			13C-1,2,3,6,7,8-HxCDD	86.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.160			13C-1,2,3,7,8,9-HxCDD	82.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.87				13C-1,2,3,4,6,7,8-HpCDD	65.4	23 - 140	
OCDD	39.6				13C-OCDD	50.7	17 - 157	
2,3,7,8-TCDF	ND	0.0546			13C-2,3,7,8-TCDF	84.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0704			13C-1,2,3,7,8-PeCDF	87.5	24 - 185	
2,3,4,7,8-PeCDF	ND		0.138		13C-2,3,4,7,8-PeCDF	86.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.127			13C-1,2,3,4,7,8-HxCDF	75.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.109			13C-1,2,3,6,7,8-HxCDF	86.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.140			13C-2,3,4,6,7,8-HxCDF	77.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.204			13C-1,2,3,7,8,9-HxCDF	78.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.09			J	13C-1,2,3,4,6,7,8-HpCDF	72.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.230			13C-1,2,3,4,7,8,9-HpCDF	65.9	26 - 138	
OCDF	0.891			J	13C-OCDF	54.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

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

TEQMinWHO2005Dioxin 0.0517

TOTALS			
Total TCDD	ND		0.0729
Total PeCDD	0.105		
Total HxCDD	1.21		
Total HpCDD	8.31		
Total TCDF	0.524		0.826
Total PeCDF	2.12		2.32
Total HxCDF	0.931		1.55
Total HpCDF	2.44		

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-150SC-A-05-06-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-06 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 11.3 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 11:01	% Solids: 89.9	Date Analyzed: 03-Jun-20 15:06 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0508			IS 13C-2,3,7,8-TCDD	99.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0867			13C-1,2,3,7,8-PeCDD	96.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0683			13C-1,2,3,4,7,8-HxCDD	96.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0710			13C-1,2,3,6,7,8-HxCDD	89.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0822			13C-1,2,3,7,8,9-HxCDD	88.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.97			J	13C-1,2,3,4,6,7,8-HpCDD	77.3	23 - 140	
OCDD	23.3				13C-OCDD	67.6	17 - 157	
2,3,7,8-TCDF	ND	0.0399			13C-2,3,7,8-TCDF	90.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0571			13C-1,2,3,7,8-PeCDF	99.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0536			13C-2,3,4,7,8-PeCDF	99.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0429			13C-1,2,3,4,7,8-HxCDF	94.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0374			13C-1,2,3,6,7,8-HxCDF	93.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0408			13C-2,3,4,6,7,8-HxCDF	98.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0632			13C-1,2,3,7,8,9-HxCDF	90.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.824			J	13C-1,2,3,4,6,7,8-HpCDF	80.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.164			13C-1,2,3,4,7,8,9-HpCDF	84.3	26 - 138	
OCDF	0.614			J	13C-OCDF	68.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.0351

TOTALS				
Total TCDD	ND	0.0508		
Total PeCDD	ND	0.0867		
Total HxCDD	1.52			
Total HpCDD	6.01			
Total TCDF	0.122			
Total PeCDF	0.410			
Total HxCDF	0.656		0.735	
Total HpCDF	2.01			

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-150SC-A-06-07-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-07 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 11.6 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 11:01	% Solids: 88.0	Date Analyzed : 03-Jun-20 15:52 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.119			IS 13C-2,3,7,8-TCDD	80.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0876			13C-1,2,3,7,8-PeCDD	72.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.118			13C-1,2,3,4,7,8-HxCDD	64.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.118			13C-1,2,3,6,7,8-HxCDD	60.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.145			13C-1,2,3,7,8,9-HxCDD	58.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	4.28				13C-1,2,3,4,6,7,8-HpCDD	37.8	23 - 140	
OCDD	ND	0.877			13C-OCDD	15.1	17 - 157	H
2,3,7,8-TCDF	ND	0.0983			13C-2,3,7,8-TCDF	76.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0822			13C-1,2,3,7,8-PeCDF	78.3	24 - 185	
2,3,4,7,8-PeCDF	ND		0.128		13C-2,3,4,7,8-PeCDF	73.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0685			13C-1,2,3,4,7,8-HxCDF	63.6	26 - 152	
1,2,3,6,7,8-HxCDF	0.164			J	13C-1,2,3,6,7,8-HxCDF	65.1	26 - 123	
2,3,4,6,7,8-HxCDF	0.131			J	13C-2,3,4,6,7,8-HxCDF	57.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.102			13C-1,2,3,7,8,9-HxCDF	60.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.65			J	13C-1,2,3,4,6,7,8-HpCDF	46.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.196			13C-1,2,3,4,7,8,9-HpCDF	43.7	26 - 138	
OCDF	0.988			J	13C-OCDF	22.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	79.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0891

TOTALS				
Total TCDD	0.516			
Total PeCDD	ND		0.426	
Total HxCDD	1.94			
Total HpCDD	13.5			
Total TCDF	1.14			
Total PeCDF	1.37		1.53	
Total HxCDF	2.14			
Total HpCDF	3.58			

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-150SC-A-07-08-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-08 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 12.7 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 11:01	% Solids: 79.3	Date Analyzed : 03-Jun-20 16:38 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0607			IS 13C-2,3,7,8-TCDD	72.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0739			13C-1,2,3,7,8-PeCDD	68.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0809			13C-1,2,3,4,7,8-HxCDD	68.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0854			13C-1,2,3,6,7,8-HxCDD	65.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0985			13C-1,2,3,7,8,9-HxCDD	67.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.176			J	13C-1,2,3,4,6,7,8-HpCDD	56.7	23 - 140	
OCDD	3.95			J	13C-OCDD	49.3	17 - 157	
2,3,7,8-TCDF	ND	0.0375			13C-2,3,7,8-TCDF	72.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0712			13C-1,2,3,7,8-PeCDF	73.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0646			13C-2,3,4,7,8-PeCDF	73.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0530			13C-1,2,3,4,7,8-HxCDF	68.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0494			13C-1,2,3,6,7,8-HxCDF	69.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0526			13C-2,3,4,6,7,8-HxCDF	72.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0801			13C-1,2,3,7,8,9-HxCDF	67.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0616			13C-1,2,3,4,6,7,8-HpCDF	60.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0691			13C-1,2,3,4,7,8,9-HpCDF	60.3	26 - 138	
OCDF	ND	0.112			13C-OCDF	50.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

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

TEQMinWHO2005Dioxin 0.00295

TOTALS								
Total TCDD	ND	0.0607						
Total PeCDD	ND	0.0739						
Total HxCDD	ND		0.0763					
Total HpCDD	0.176		0.469					
Total TCDF	ND	0.0375						
Total PeCDF	ND	0.0712						
Total HxCDF	ND	0.0801						
Total HpCDF	ND	0.0691						

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-1163SC-A-01-02-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-09 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 19.1 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 8:42	% Solids: 54.2	Date Analyzed : 03-Jun-20 17:25 Column: ZB-5MS 09-Jun-20 20:50 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.89				IS 13C-2,3,7,8-TCDD	108	25 - 164	
1,2,3,7,8-PeCDD	1.58			J	13C-1,2,3,7,8-PeCDD	106	25 - 181	
1,2,3,4,7,8-HxCDD	1.29			J	13C-1,2,3,4,7,8-HxCDD	106	32 - 141	
1,2,3,6,7,8-HxCDD	6.07				13C-1,2,3,6,7,8-HxCDD	106	28 - 130	
1,2,3,7,8,9-HxCDD	2.85				13C-1,2,3,7,8,9-HxCDD	104	32 - 141	
1,2,3,4,6,7,8-HpCDD	137				13C-1,2,3,4,6,7,8-HpCDD	107	23 - 140	
OCDD	1680				13C-OCDD	105	17 - 157	
2,3,7,8-TCDF	156				13C-2,3,7,8-TCDF	103	24 - 169	
1,2,3,7,8-PeCDF	266				13C-1,2,3,7,8-PeCDF	113	24 - 185	
2,3,4,7,8-PeCDF	115				13C-2,3,4,7,8-PeCDF	111	21 - 178	
1,2,3,4,7,8-HxCDF	400				13C-1,2,3,4,7,8-HxCDF	108	26 - 152	
1,2,3,6,7,8-HxCDF	107				13C-1,2,3,6,7,8-HxCDF	108	26 - 123	
2,3,4,6,7,8-HxCDF	23.3				13C-2,3,4,6,7,8-HxCDF	111	28 - 136	
1,2,3,7,8,9-HxCDF	38.1				13C-1,2,3,7,8,9-HxCDF	111	29 - 147	
1,2,3,4,6,7,8-HpCDF	148				13C-1,2,3,4,6,7,8-HpCDF	99.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	66.2				13C-1,2,3,4,7,8,9-HpCDF	109	26 - 138	
OCDF	268				13C-OCDF	98.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

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

TEQMinWHO2005Dioxin	124
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TOTALS			
Total TCDD	14.1		
Total PeCDD	13.8	15.8	
Total HxCDD	62.1		
Total HpCDD	326		
Total TCDF	669		
Total PeCDF	718	730	
Total HxCDF	697		
Total HpCDF	384		

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-163SC-A-00-01-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-10 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 20.3 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 8:42	% Solids: 49.5	Date Analyzed : 03-Jun-20 18:11 Column: ZB-5MS 09-Jun-20 18:12 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.958				IS 13C-2,3,7,8-TCDD	105	25 - 164	
1,2,3,7,8-PeCDD	1.72			J	13C-1,2,3,7,8-PeCDD	102	25 - 181	
1,2,3,4,7,8-HxCDD	1.60			J	13C-1,2,3,4,7,8-HxCDD	98.0	32 - 141	
1,2,3,6,7,8-HxCDD	11.6				13C-1,2,3,6,7,8-HxCDD	92.3	28 - 130	
1,2,3,7,8,9-HxCDD	5.46				13C-1,2,3,7,8,9-HxCDD	94.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	249				13C-1,2,3,4,6,7,8-HpCDD	93.3	23 - 140	
OCDD	2890				13C-OCDD	97.2	17 - 157	
2,3,7,8-TCDF	33.5				13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	57.8				13C-1,2,3,7,8-PeCDF	107	24 - 185	
2,3,4,7,8-PeCDF	24.8				13C-2,3,4,7,8-PeCDF	110	21 - 178	
1,2,3,4,7,8-HxCDF	119				13C-1,2,3,4,7,8-HxCDF	100	26 - 152	
1,2,3,6,7,8-HxCDF	31.9				13C-1,2,3,6,7,8-HxCDF	98.8	26 - 123	
2,3,4,6,7,8-HxCDF	8.02				13C-2,3,4,6,7,8-HxCDF	103	28 - 136	
1,2,3,7,8,9-HxCDF	8.46				13C-1,2,3,7,8,9-HxCDF	108	29 - 147	
1,2,3,4,6,7,8-HpCDF	93.6				13C-1,2,3,4,6,7,8-HpCDF	103	28 - 143	
1,2,3,4,7,8,9-HpCDF	21.8				13C-1,2,3,4,7,8,9-HpCDF	99.8	26 - 138	
OCDF	212				13C-OCDF	89.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.7	35 - 197	

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

TEQMinWHO2005Dioxin 38.4

TOTALS	
Total TCDD	8.68
Total PeCDD	13.0
Total HxCDD	103
Total HpCDD	542
Total TCDF	132
Total PeCDF	172
Total HxCDF	242
Total HpCDF	231

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.

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

Sample ID: PDI-163SC-A-01-02-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-11 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 18.2 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 8:42	% Solids: 55.3	Date Analyzed : 03-Jun-20 18:57 Column: ZB-5MS 09-Jun-20 21:22 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	2.01				IS 13C-2,3,7,8-TCDD	109	25 - 164	
1,2,3,7,8-PeCDD	2.69				13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	2.42			J	13C-1,2,3,4,7,8-HxCDD	120	32 - 141	
1,2,3,6,7,8-HxCDD	14.4				13C-1,2,3,6,7,8-HxCDD	109	28 - 130	
1,2,3,7,8,9-HxCDD	6.51				13C-1,2,3,7,8,9-HxCDD	104	32 - 141	
1,2,3,4,6,7,8-HpCDD	386				13C-1,2,3,4,6,7,8-HpCDD	110	23 - 140	
OCDD	5230				13C-OCDD	119	17 - 157	
2,3,7,8-TCDF	156				13C-2,3,7,8-TCDF	108	24 - 169	
1,2,3,7,8-PeCDF	366				13C-1,2,3,7,8-PeCDF	116	24 - 185	
2,3,4,7,8-PeCDF	157				13C-2,3,4,7,8-PeCDF	115	21 - 178	
1,2,3,4,7,8-HxCDF	814				13C-1,2,3,4,7,8-HxCDF	113	26 - 152	
1,2,3,6,7,8-HxCDF	224				13C-1,2,3,6,7,8-HxCDF	111	26 - 123	
2,3,4,6,7,8-HxCDF	47.6				13C-2,3,4,6,7,8-HxCDF	111	28 - 136	
1,2,3,7,8,9-HxCDF	66.7				13C-1,2,3,7,8,9-HxCDF	112	29 - 147	
1,2,3,4,6,7,8-HpCDF	504				13C-1,2,3,4,6,7,8-HpCDF	105	28 - 143	
1,2,3,4,7,8,9-HpCDF	160				13C-1,2,3,4,7,8,9-HpCDF	110	26 - 138	
OCDF	832				13C-OCDF	110	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	105	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 208

TOTALS			
Total TCDD	14.6		15.4
Total PeCDD	20.6		23.2
Total HxCDD	125		
Total HpCDD	855		
Total TCDF	719		
Total PeCDF	1020		
Total HxCDF	1440		
Total HpCDF	1130		

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-163SC-A-02-03-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-12 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 17.4 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 8:42	% Solids: 57.7	Date Analyzed : 03-Jun-20 22:11 Column: ZB-5MS 09-Jun-20 18:44 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.989				IS 13C-2,3,7,8-TCDD	105	25 - 164	
1,2,3,7,8-PeCDD	0.946			J	13C-1,2,3,7,8-PeCDD	97.4	25 - 181	
1,2,3,4,7,8-HxCDD	0.775			J	13C-1,2,3,4,7,8-HxCDD	100	32 - 141	
1,2,3,6,7,8-HxCDD	3.95				13C-1,2,3,6,7,8-HxCDD	95.5	28 - 130	
1,2,3,7,8,9-HxCDD	1.44			J	13C-1,2,3,7,8,9-HxCDD	93.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	96.3				13C-1,2,3,4,6,7,8-HpCDD	90.1	23 - 140	
OCDD	1220				13C-OCDD	89.2	17 - 157	
2,3,7,8-TCDF	58.5				13C-2,3,7,8-TCDF	99.3	24 - 169	
1,2,3,7,8-PeCDF	175				13C-1,2,3,7,8-PeCDF	102	24 - 185	
2,3,4,7,8-PeCDF	ND		26.2		13C-2,3,4,7,8-PeCDF	98.9	21 - 178	
1,2,3,4,7,8-HxCDF	246				13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	73.0				13C-1,2,3,6,7,8-HxCDF	102	26 - 123	
2,3,4,6,7,8-HxCDF	19.5				13C-2,3,4,6,7,8-HxCDF	105	28 - 136	
1,2,3,7,8,9-HxCDF	33.6				13C-1,2,3,7,8,9-HxCDF	98.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	103				13C-1,2,3,4,6,7,8-HpCDF	88.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	32.1				13C-1,2,3,4,7,8,9-HpCDF	98.7	26 - 138	
OCDF	174				13C-OCDF	86.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

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

TEQMinWHO2005Dioxin 53.6

TOTALS								
Total TCDD	12.7							
Total PeCDD	10.5		11.8					
Total HxCDD	43.0							
Total HpCDD	245							
Total TCDF	279			P				
Total PeCDF	440		503					
Total HxCDF	489							
Total HpCDF	277							

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-163SC-A-02-03-200425		QC Batch: B0E0020		Lab Sample: B0E0020-DUP1				
Source LabNumber: 2000965-12		Date Extracted: 03-May-2020 6:19		Date Analyzed: 03-Jun-20 22:57 Column: ZB-5MS				
Matrix: Solid				09-Jun-20 19:15 Column: ZB-5MS				
Sample Size: 17.3 g								
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.999				IS 13C-2,3,7,8-TCDD	108	25 - 164	
1,2,3,7,8-PeCDD	1.13			J	13C-1,2,3,7,8-PeCDD	99.5	25 - 181	
1,2,3,4,7,8-HxCDD	0.750			J	13C-1,2,3,4,7,8-HxCDD	97.9	32 - 141	
1,2,3,6,7,8-HxCDD	4.54				13C-1,2,3,6,7,8-HxCDD	92.3	28 - 130	
1,2,3,7,8,9-HxCDD	1.85			J	13C-1,2,3,7,8,9-HxCDD	92.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	123				13C-1,2,3,4,6,7,8-HpCDD	92.1	23 - 140	
OCDD	1610				13C-OCDD	91.9	17 - 157	
2,3,7,8-TCDF	66.5				13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	207				13C-1,2,3,7,8-PeCDF	106	24 - 185	
2,3,4,7,8-PeCDF	64.5				13C-2,3,4,7,8-PeCDF	105	21 - 178	
1,2,3,4,7,8-HxCDF	267				13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	67.3				13C-1,2,3,6,7,8-HxCDF	101	26 - 123	
2,3,4,6,7,8-HxCDF	18.0				13C-2,3,4,6,7,8-HxCDF	101	28 - 136	
1,2,3,7,8,9-HxCDF	13.4				13C-1,2,3,7,8,9-HxCDF	111	29 - 147	
1,2,3,4,6,7,8-HpCDF	104				13C-1,2,3,4,6,7,8-HpCDF	110	28 - 143	
1,2,3,4,7,8,9-HpCDF	27.6				13C-1,2,3,4,7,8,9-HpCDF	93.9	26 - 138	
OCDF	161				13C-OCDF	86.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	107	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 74.7			
TOTALS								
Total TCDD	11.2							
Total PeCDD	11.0		11.7					
Total HxCDD	51.1		52.4					
Total HpCDD	322							
Total TCDF	270		271					
Total PeCDF	577							
Total HxCDF	499							
Total HpCDF	272		273					

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-163SC-A-02-03-200425					Duplicate Lab Sample: B0E0020-DUP1				
Source LabNumber: 2000965-12									
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	0.999	0.989	1.02	25	IS 13C-2,3,7,8-TCDD	108	105	25 - 164	
1,2,3,7,8-PeCDD	1.13	0.946	17.4	25	13C-1,2,3,7,8-PeCDD	99.5	97.4	25 - 181	
1,2,3,4,7,8-HxCDD	0.750	0.775	3.32	25	13C-1,2,3,4,7,8-HxCDD	97.9	100	32 - 141	
1,2,3,6,7,8-HxCDD	4.54	3.95	14.0	25	13C-1,2,3,6,7,8-HxCDD	92.3	95.5	28 - 130	
1,2,3,7,8,9-HxCDD	1.85	1.44	24.9	25	13C-1,2,3,7,8,9-HxCDD	92.1	93.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	123	96.3	24.7	25	13C-1,2,3,4,6,7,8-HpCDD	92.1	90.1	23 - 140	
OCDD	1610	1220	27.2	25	13C-OCDD	91.9	89.2	17 - 157	
2,3,7,8-TCDF	66.5	58.5	12.8	25	13C-2,3,7,8-TCDF	101	99.3	24 - 169	
1,2,3,7,8-PeCDF	207	175	16.7	25	13C-1,2,3,7,8-PeCDF	106	102	24 - 185	
2,3,4,7,8-PeCDF	64.5	ND	#	25	13C-2,3,4,7,8-PeCDF	105	98.9	21 - 178	
1,2,3,4,7,8-HxCDF	267	246	8.11	25	13C-1,2,3,4,7,8-HxCDF	101	101	26 - 152	
1,2,3,6,7,8-HxCDF	67.3	73.0	8.13	25	13C-1,2,3,6,7,8-HxCDF	101	102	26 - 123	
2,3,4,6,7,8-HxCDF	18.0	19.5	8.16	25	13C-2,3,4,6,7,8-HxCDF	101	105	28 - 136	
1,2,3,7,8,9-HxCDF	13.4	33.6	85.9	25	13C-1,2,3,7,8,9-HxCDF	111	98.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	104	103	0.785	25	13C-1,2,3,4,6,7,8-HpCDF	110	88.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	27.6	32.1	15.1	25	13C-1,2,3,4,7,8,9-HpCDF	93.9	98.7	26 - 138	
OCDF	161	174	7.56	25	13C-OCDF	86.9	86.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	107	101	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-163SC-A-03-04-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-13 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 17.2 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 8:42	% Solids: 60.2	Date Analyzed : 03-Jun-20 23:43 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.136		IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	0.603			J	13C-1,2,3,7,8-PeCDD	102	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.145			13C-1,2,3,4,7,8-HxCDD	102	32 - 141	
1,2,3,6,7,8-HxCDD	0.856			J	13C-1,2,3,6,7,8-HxCDD	94.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.445			J	13C-1,2,3,7,8,9-HxCDD	96.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.96			J	13C-1,2,3,4,6,7,8-HpCDD	93.4	23 - 140	
OCDD	15.3				13C-OCDD	85.4	17 - 157	
2,3,7,8-TCDF	0.315			J	13C-2,3,7,8-TCDF	93.6	24 - 169	
1,2,3,7,8-PeCDF	0.377			J	13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	2.42				13C-2,3,4,7,8-PeCDF	106	21 - 178	
1,2,3,4,7,8-HxCDF	1.22			J	13C-1,2,3,4,7,8-HxCDF	102	26 - 152	
1,2,3,6,7,8-HxCDF	1.01			J	13C-1,2,3,6,7,8-HxCDF	102	26 - 123	
2,3,4,6,7,8-HxCDF	1.31			J	13C-2,3,4,6,7,8-HxCDF	106	28 - 136	
1,2,3,7,8,9-HxCDF	0.248			J	13C-1,2,3,7,8,9-HxCDF	104	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.27			J	13C-1,2,3,4,6,7,8-HpCDF	102	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.360			J	13C-1,2,3,4,7,8,9-HpCDF	92.1	26 - 138	
OCDF	0.938			J	13C-OCDF	82.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.9	35 - 197	

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

TEQMinWHO2005Dioxin 1.93

TOTALS			
Total TCDD	3.63	3.94	
Total PeCDD	6.59	7.27	
Total HxCDD	10.0	10.4	
Total HpCDD	5.15		
Total TCDF	20.2	20.6	P
Total PeCDF	36.8		P
Total HxCDF	18.0		
Total HpCDF	4.72		

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-163SC-A-04-05-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-14 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 15.9 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 8:42	% Solids: 63.0	Date Analyzed : 04-Jun-20 00:30 Column: ZB-5MS 09-Jun-20 15:02 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.162		IS 13C-2,3,7,8-TCDD	113	25 - 164	
1,2,3,7,8-PeCDD	0.525			J	13C-1,2,3,7,8-PeCDD	107	25 - 181	
1,2,3,4,7,8-HxCDD	0.199			J	13C-1,2,3,4,7,8-HxCDD	110	32 - 141	
1,2,3,6,7,8-HxCDD	0.730			J	13C-1,2,3,6,7,8-HxCDD	101	28 - 130	
1,2,3,7,8,9-HxCDD	0.376			J	13C-1,2,3,7,8,9-HxCDD	103	32 - 141	
1,2,3,4,6,7,8-HpCDD	5.88				13C-1,2,3,4,6,7,8-HpCDD	98.9	23 - 140	
OCDD	76.4				13C-OCDD	90.0	17 - 157	
2,3,7,8-TCDF	1.55				13C-2,3,7,8-TCDF	107	24 - 169	
1,2,3,7,8-PeCDF	1.82			J	13C-1,2,3,7,8-PeCDF	109	24 - 185	
2,3,4,7,8-PeCDF	2.73				13C-2,3,4,7,8-PeCDF	115	21 - 178	
1,2,3,4,7,8-HxCDF	2.72				13C-1,2,3,4,7,8-HxCDF	106	26 - 152	
1,2,3,6,7,8-HxCDF	1.35			J	13C-1,2,3,6,7,8-HxCDF	104	26 - 123	
2,3,4,6,7,8-HxCDF	1.57			J	13C-2,3,4,6,7,8-HxCDF	113	28 - 136	
1,2,3,7,8,9-HxCDF	0.463			J	13C-1,2,3,7,8,9-HxCDF	107	29 - 147	
1,2,3,4,6,7,8-HpCDF	5.51				13C-1,2,3,4,6,7,8-HpCDF	99.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.700			J	13C-1,2,3,4,7,8,9-HpCDF	98.1	26 - 138	
OCDF	5.91				13C-OCDF	91.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

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

TEQMinWHO2005Dioxin 2.44

TOTALS			
Total TCDD	2.67	2.94	
Total PeCDD	3.22	5.44	
Total HxCDD	8.24		
Total HpCDD	14.3		
Total TCDF	24.0		P
Total PeCDF	33.9	43.2	P
Total HxCDF	22.7		
Total HpCDF	12.5		

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-163SC-A-05-06-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-15 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 17.2 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 8:42	% Solids: 59.6	Date Analyzed: 04-Jun-20 01:16 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0557			IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0884			13C-1,2,3,7,8-PeCDD	96.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0878			13C-1,2,3,4,7,8-HxCDD	102	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0938			13C-1,2,3,6,7,8-HxCDD	95.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.109			13C-1,2,3,7,8,9-HxCDD	97.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.740			J	13C-1,2,3,4,6,7,8-HpCDD	90.9	23 - 140	
OCDD	6.83				13C-OCDD	83.5	17 - 157	
2,3,7,8-TCDF	ND	0.0326			13C-2,3,7,8-TCDF	95.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0499			13C-1,2,3,7,8-PeCDF	99.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0453			13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0628			13C-1,2,3,4,7,8-HxCDF	98.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0609			13C-1,2,3,6,7,8-HxCDF	97.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0595			13C-2,3,4,6,7,8-HxCDF	105	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0957			13C-1,2,3,7,8,9-HxCDF	98.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0553			13C-1,2,3,4,6,7,8-HpCDF	91.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0619			13C-1,2,3,4,7,8,9-HpCDF	92.1	26 - 138	
OCDF	ND	0.0933			13C-OCDF	84.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.00945

TOTALS		
Total TCDD	0.495	
Total PeCDD	0.207	0.362
Total HxCDD	1.06	
Total HpCDD	2.33	
Total TCDF	ND	0.111
Total PeCDF	ND	0.0499
Total HxCDF	ND	0.0957
Total HpCDF	ND	0.0619

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-163SC-A-06-07-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-16 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 16.3 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 8:42	% Solids: 63.9	Date Analyzed : 04-Jun-20 02:02 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0582			IS 13C-2,3,7,8-TCDD	98.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0724			13C-1,2,3,7,8-PeCDD	95.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.113			13C-1,2,3,4,7,8-HxCDD	98.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.113			13C-1,2,3,6,7,8-HxCDD	93.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.129			13C-1,2,3,7,8,9-HxCDD	93.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.550			J	13C-1,2,3,4,6,7,8-HpCDD	85.0	23 - 140	
OCDD	5.25				13C-OCDD	79.3	17 - 157	
2,3,7,8-TCDF	ND	0.0336			13C-2,3,7,8-TCDF	91.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0374			13C-1,2,3,7,8-PeCDF	99.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0360			13C-2,3,4,7,8-PeCDF	97.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0394			13C-1,2,3,4,7,8-HxCDF	96.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0374			13C-1,2,3,6,7,8-HxCDF	96.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0384			13C-2,3,4,6,7,8-HxCDF	102	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0573			13C-1,2,3,7,8,9-HxCDF	94.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0634			13C-1,2,3,4,6,7,8-HpCDF	87.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0685			13C-1,2,3,4,7,8,9-HpCDF	88.8	26 - 138	
OCDF	0.186			J	13C-OCDF	79.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.0	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00713

TOTALS				
Total TCDD	0.422			
Total PeCDD	ND		0.119	
Total HxCDD	0.639			
Total HpCDD	1.66			
Total TCDF	ND		0.188	
Total PeCDF	ND	0.0374		
Total HxCDF	ND	0.0573		
Total HpCDF	ND	0.0685		

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-163SC-A-07-08-200425 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000965-17 Date Received: 28-Apr-2020 9:40
Project: Gasco PDI	Sample Size: 17.3 g	QC Batch: B0E0020 Date Extracted: 03-May-2020 6:19
Date Collected: 25-Apr-2020 8:42	% Solids: 60.0	Date Analyzed : 04-Jun-20 02:48 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0469			IS 13C-2,3,7,8-TCDD	100	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0852			13C-1,2,3,7,8-PeCDD	92.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0890			13C-1,2,3,4,7,8-HxCDD	94.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0902			13C-1,2,3,6,7,8-HxCDD	90.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.107			13C-1,2,3,7,8,9-HxCDD	92.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.10			J	13C-1,2,3,4,6,7,8-HpCDD	82.2	23 - 140	
OCDD	11.1				13C-OCDD	74.6	17 - 157	
2,3,7,8-TCDF	ND	0.0325			13C-2,3,7,8-TCDF	97.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0408			13C-1,2,3,7,8-PeCDF	97.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0373			13C-2,3,4,7,8-PeCDF	99.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0336			13C-1,2,3,4,7,8-HxCDF	93.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0330			13C-1,2,3,6,7,8-HxCDF	93.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0343			13C-2,3,4,6,7,8-HxCDF	97.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0550			13C-1,2,3,7,8,9-HxCDF	91.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0842			13C-1,2,3,4,6,7,8-HpCDF	84.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0893			13C-1,2,3,4,7,8,9-HpCDF	87.6	26 - 138	
OCDF	ND	0.0871			13C-OCDF	75.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.8	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0143

TOTALS			
Total TCDD	0.754		0.841
Total PeCDD	ND		0.291
Total HxCDD	1.43		
Total HpCDD	3.29		
Total TCDF	0.146		
Total PeCDF	ND	0.0408	
Total HxCDF	ND	0.0550	
Total HpCDF	ND	0.0893	

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

2000965 + 506 WWS
3.4°C, 4.1°C 04/29/20

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

Project: Gasco PDI
Client: NW Natural

COC ID: VISTA-20200425-162849
Sample Custodian: SN
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
* 015	PDI-149SC-A-05-06-200425	N	SE	04/25/2020	13:06	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 016	PDI-149SC-A-06-07-200425	N	SE	04/25/2020	13:06	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 017	PDI-149SC-A-07-08-200425	N	SE	04/25/2020	13:06	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 018	PDI-149SC-A-08-09-200425	N	SE	04/25/2020	13:06	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 019	PDI-149SC-A-09-10-200425	N	SE	04/25/2020	13:06	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 020	PDI-149SC-A-10-11-200425	N	SE	04/25/2020	13:06	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 021	PDI-150SC-A-00-01-200425	N	SE	04/25/2020	11:01	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								PCB Congeners *	E1668A	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C

* WO# 2000957

Comment: * WO# 2000968

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: <i>Sasha Norwood</i>	Print Name: <i>William R. Wright</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>Anchor OEA</i>	Company: <i>WAL</i>	Company:	Company:	Company:	Company:
Date/Time: <i>4/27/20 12:30</i>	Date/Time: <i>4-28-20 09:04</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2000965

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

Project: Gasco PDI
Client: NW Natural

COC ID: VISTA-20200425-162849
Sample Custodian: SN
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
022	PDI-150SC-A-01-02-200425	N	SE	04/25/2020	11:01	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
023	PDI-150SC-A-02-03-200425	N	SE	04/25/2020	11:01	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
024	PDI-150SC-A-03-04-200425	N	SE	04/25/2020	11:01	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
025	PDI-150SC-A-04-05-200425	N	SE	04/25/2020	11:01	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
026	PDI-150SC-A-05-06-200425	N	SE	04/25/2020	11:01	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
027	PDI-150SC-A-06-07-200425	N	SE	04/25/2020	11:01	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
028	PDI-150SC-A-07-08-200425	N	SE	04/25/2020	11:01	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
029	PDI-1163SC-A-01-02-200425	FD	SE	04/25/2020		1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>				
Sasha Dawson	K. Hank Wright				
Anchor QEA	VAL				
4/27/20 12:30	04-28-20 09:04				

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2000965

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

Project: Gasco PDI
Client: NW Natural

COC ID: VISTA-20200425-162849
Sample Custodian: SN
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
029	PDI-1163SC-A-01-02-200425	FD	SE	04/25/2020		1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 030	PDI-163SC-A-00-01-200425	N	SE	04/25/2020	8:42	1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	7	4°C
								PCB Congeners *	E1668A	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
031	PDI-163SC-A-01-02-200425	N	SE	04/25/2020	8:42	1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
032	PDI-163SC-A-02-03-200425	N	SE	04/25/2020	8:42	2	<input checked="" type="checkbox"/>				
								Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
033	PDI-163SC-A-03-04-200425	N	SE	04/25/2020	8:42	1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
034	PDI-163SC-A-04-05-200425	N	SE	04/25/2020	8:42	1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
035	PDI-163SC-A-05-06-200425	N	SE	04/25/2020	8:42	1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C

Comment: * WO # 2000965

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: <i>Sasha Norwood</i>	Print Name: <i>William R. Wright</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>Anchor QEA</i>	Company: <i>QAL</i>	Company:	Company:	Company:	Company:
Date/Time: <i>4/27/20 12:30</i>	Date/Time: <i>4-28-20 09:07</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

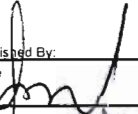
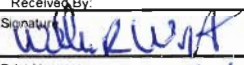
2000965

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

Project: Gasco PDI
Client: NW Natural

COC ID: VISTA-20200425-162849
Sample Custodian: SN
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
036	PDI-163SC-A-06-07-200425	N	SE	04/25/2020	8:42	1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
037	PDI-163SC-A-07-08-200425	N	SE	04/25/2020	8:42	1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: 	Signature: 	Signature:	Signature:	Signature:	Signature:
Print Name: Sasha Norwood	Print Name: William R. West	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor QEA	Company: VAC	Company:	Company:	Company:	Company:
Date/Time: 4/27/20 1235	Date/Time: 4-28-20 09:04	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2000965 TAT 2 days

Samples Arrival:	Date/Time <u>4/20/20 09:04</u>		Initials: <u>WJW</u>		Location: <u>W-2</u>	
					Shelf/Rack: <u>N/A</u>	
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice	
Temp °C:	<u>3.4</u> (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR-3</u>	
Temp °C:	<u>3.4</u> (corrected)					

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Airbill <u>3 of 3 1 of 3</u> Trk # <u>7703 3190 0431</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 <u>04/29/20 0900</u>		Initials: <u>WJW</u>		Location: <u>W-2</u>	
					Shelf/Rack: <u>G-5</u>	
COC Anomaly/Sample Acceptance Form completed?					<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: *Coc in cooler 3 of 3

Page # 1 of 1

Vista Work Order #: 2000965

TAT PUSH

Samples Arrival:	Date/Time: <u>4/20/20 09:04</u>	Initials: <u>WRW</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>NA</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None	Thermometer ID: <u>IR3</u>	
Temp °C: <u>4.1</u> (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		
Temp °C: <u>4.1</u> (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>2 of 3</u> Trk # <u>7703 3190 0660</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present? *	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Logged In:	Date/Time: <u>04/20/20 0900</u>	Initials: <u>WR</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>G-5</u>
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Comments: * COC in cooler 3 of 3

CoC/Label Reconciliation Report WO# 2000965

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000965-01	A PDI-150SC-A-00-01-200425	<input checked="" type="checkbox"/>	25-Apr-20 11:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-02	A PDI-150SC-A-01-02-200425	<input checked="" type="checkbox"/>	25-Apr-20 11:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-03	A PDI-150SC-A-02-03-200425	<input checked="" type="checkbox"/>	25-Apr-20 11:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-04	A PDI-150SC-A-03-04-200425	<input checked="" type="checkbox"/>	25-Apr-20 11:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-05	A PDI-150SC-A-04-05-200425	<input checked="" type="checkbox"/>	25-Apr-20 11:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-06	A PDI-150SC-A-05-06-200425	<input checked="" type="checkbox"/>	25-Apr-20 11:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-07	A PDI-150SC-A-06-07-200425	<input checked="" type="checkbox"/>	25-Apr-20 11:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-08	A PDI-150SC-A-07-08-200425	<input checked="" type="checkbox"/>	25-Apr-20 11:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-09	A PDI-1163SC-A-01-02-200425	<input checked="" type="checkbox"/>	25-Apr-20 08:42	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-10	A PDI-163SC-A-00-01-200425	<input checked="" type="checkbox"/>	25-Apr-20 08:42	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-11	A PDI-163SC-A-01-02-200425	<input checked="" type="checkbox"/>	25-Apr-20 08:42	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-12	A PDI-163SC-A-02-03-200425	<input checked="" type="checkbox"/>	25-Apr-20 08:42	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid DUP
2000965-12	B PDI-163SC-A-02-03-200425	<input checked="" type="checkbox"/>	25-Apr-20 08:42	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid DUP
2000965-13	A PDI-163SC-A-03-04-200425	<input checked="" type="checkbox"/>	25-Apr-20 08:42	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-14	A PDI-163SC-A-04-05-200425	<input checked="" type="checkbox"/>	25-Apr-20 08:42	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-15	A PDI-163SC-A-05-06-200425	<input checked="" type="checkbox"/>	25-Apr-20 08:42	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-16	A PDI-163SC-A-06-07-200425	<input checked="" type="checkbox"/>	25-Apr-20 08:42	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000965-17	A PDI-163SC-A-07-08-200425	<input checked="" type="checkbox"/>	25-Apr-20 08:42	<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	Comments:
Sample Container Intact?	✓			
Sample Custody Seals Intact?			✓	
Adequate Sample Volume?	✓			
Container Type Appropriate for Analysis(es)	✓			
Preservation Documented: Na2S2O3 Trizma <u>None</u> Other			✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓	

Verified by/Date: KA 04/29/2020

EXTRACTION INFORMATION



Process Sheet

Workorder: 2000965

Prep Expiration: 2021-04-25
Client: Anchor QEA, LLC

Workorder Due: 04-May-20 00:00

TAT: 6

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

Prep Batch: BOE0020

Prep Data Entered: W 05/09/20
Date and Initials

Initial Sequence: SOFO007

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000965-01	<input checked="" type="checkbox"/>	PDI-150SC-A-00-01-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-02	<input checked="" type="checkbox"/>	PDI-150SC-A-01-02-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-03	<input checked="" type="checkbox"/>	PDI-150SC-A-02-03-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-04	<input checked="" type="checkbox"/>	PDI-150SC-A-03-04-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-05	<input checked="" type="checkbox"/>	PDI-150SC-A-04-05-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-06	<input checked="" type="checkbox"/>	PDI-150SC-A-05-06-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-07	<input checked="" type="checkbox"/>	PDI-150SC-A-06-07-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-08	<input checked="" type="checkbox"/>	PDI-150SC-A-07-08-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-09	<input checked="" type="checkbox"/>	PDI-1163SC-A-01-02-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-10	<input checked="" type="checkbox"/>	PDI-163SC-A-00-01-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-11	<input checked="" type="checkbox"/>	PDI-163SC-A-01-02-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-12	<input checked="" type="checkbox"/>	PDI-163SC-A-02-03-200425	28-Apr-20 09:40	WR-2 G-5	DUP
2000965-13	<input checked="" type="checkbox"/>	PDI-163SC-A-03-04-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-14	<input checked="" type="checkbox"/>	PDI-163SC-A-04-05-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-15	<input checked="" type="checkbox"/>	PDI-163SC-A-05-06-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-16	<input checked="" type="checkbox"/>	PDI-163SC-A-06-07-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-17	<input checked="" type="checkbox"/>	PDI-163SC-A-07-08-200425	28-Apr-20 09:40	WR-2 G-5	

WO Comments: Dioxin - 10g (dry weight)
One dup required per batch of 20 samples

Pre-Prep Check Out: CHT 04/30/20
Pre-Prep Check In: CHT 04/30/20

Prep Check Out: AZ 05/03/20
Prep Check In: AZ 05/03/20

Prep Reconciled Initials/Date: CHT 04/30/20
Spike Reconciled Initials/Date: AZ 05/03/20
VialBoxID: Reisin Dubb

PREPARATION BENCH SHEET

Matrix: Solid

B0E0020

Chemist: 010

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 03-May-20 06:19

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	Florisis CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0E0020-BLK1	NA	(10.00)	GAZ 05/03/20	05/08/20	NA	05/08/20	05/08/20	05/09/20	DF 05/09/20
<input type="checkbox"/>	B0E0020-BS1	NA	(10.00)	T	T	T	T	T	T	T
<input type="checkbox"/>	B0E0020-DUPI 2000965-12	17.35	17.34	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-01	11.92	11.87	T	T	T	yellow	T	T	T
<input type="checkbox"/>	2000965-02	11.18	11.25	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-03	11.63	11.67	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-04	12.62	13.02	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-05	11.24	11.85	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-06	11.12	11.28	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-07	11.36	11.61	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-08	12.60	12.66	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-09	18.45	19.05	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-10	20.19	20.29	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-11	18.09	18.23	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-12	17.39	17.35	T	T	T	T	T	T	T

IS Name <u>V₁</u>	NS Name <u>V₂</u>	CRS Name <u>V₁</u>	RS Name <u>V₁</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>AZ 05/03/20</u>
PCDD/F <u>17L2301, 10ul</u>	PCDD/F <u>18F7913, 10ul</u>	PCDD/F <u>19I1602, 12ul</u>	PCDD/F <u>19I1603, 12ul</u>	Start Date/Time	SOLV: <u>TO1</u>	Check In: Chemist/Date: <u>AZ 05/03/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	<u>1350 05/03/20</u>	Other <u>NA</u>	Balance ID: <u>HRMS-7</u>
PAH _____	PAH _____	PAH _____	PAH _____	Stop Date/Time <u>700 05/04/20</u>	Final Volume(s) <u>20ul</u>	
					<u>C14</u>	

Comments:

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

PREPARATION BENCH SHEET

Matrix: Solid

B0E0020

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 03-May-20 06:19

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"/>	2000965-13	16.60	17.24	AO AZ 05/03/20	AO 05/08/20	NA	yellow AZ 05/08/20	AZ 05/08/20	AZ 05/09/20	AZ DF 05/09/20
<input type="checkbox"/>	2000965-14	15.88	15.92	T	T	T	yellow T	T	T	T
<input type="checkbox"/>	2000965-15	16.78	17.23	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-16	15.66	16.29	T	T	T	T	T	T	T
<input type="checkbox"/>	2000965-17	16.67	17.25	T	T	T	T	T	T	T

IS Name <u>V4</u>	NS Name <u>V2</u>	CRS Name <u>V1</u>	RS Name <u>V1</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>AZ 05/03/20</u>
PCDD/F <u>19L2801, 10ml</u>	PCDD/F <u>15F1913, 10ml</u>	PCDD/F <u>14I1602, 10ml</u>	PCDD/F <u>14E1603, 10ml</u>	Start Date/Time	SOLV: <u>Tol</u>	Check In: Chemist/Date: <u>AZ 05/03/20</u>
PCB	PCB	PCB	PCB	<u>1350 05/03/20</u>	Other <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) <u>20ml</u>	
				<u>700 05/04/20</u>	<u>Cl4</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 B0D0318

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: 04/30/2020 13:04 ✓
Date/Time OUT: 5/1/20 15:06 ✓

Particle Size	SampID	SampType	Initial and Date:		Dry Pan and Sample Weight (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)										CHT 04/30/2020 ✓
	2000965-01	A ✓	Sample	1.3200 ✓	5.7900 ✓	5.0700 ✓	3.7500	83.89	Soil	N/A	N/A	N/A	N/A	X ✓
	2000965-02	A	Sample	1.3200 ✓	5.9800 ✓	5.4900 ✓	4.1700	89.48	Soil	N/A	N/A	N/A	N/A	X
	2000965-03	A	Sample	1.3200 ✓	5.2400 ✓	4.6900 ✓	3.3700	85.97	Soil	N/A	N/A	N/A	N/A	X
	2000965-04	A	Sample	1.2800 ✓	6.1900 ✓	5.1700 ✓	3.8900	79.23	Soil	N/A	N/A	N/A	N/A	X
	2000965-05	A	Sample	1.3300 ✓	5.7800 ✓	5.2900 ✓	3.9600	88.99	Soil	N/A	N/A	N/A	N/A	X
	2000965-06	A	Sample	1.3100 ✓	6.0800 ✓	5.6000 ✓	4.2900	89.94	Soil	N/A	N/A	N/A	N/A	X
	2000965-07	A	Sample	1.2900 ✓	5.7200 ✓	5.1900 ✓	3.9000	88.04	Soil	N/A	N/A	N/A	N/A	X
	2000965-08	A	Sample	1.3000 ✓	4.9800 ✓	4.2200 ✓	2.9200	79.35	Soil	N/A	N/A	N/A	N/A	X
	2000965-09	A	Sample	1.2800 ✓	7.4600 ✓	4.6300 ✓	3.3500	54.21	Mud	N/A	N/A	N/A	N/A	X
	2000965-10	A	Sample	1.3200 ✓	6.6500 ✓	3.9600 ✓	2.6400	49.53	Mud	N/A	N/A	N/A	N/A	X
	2000965-11	A	Sample	1.3200 ✓	5.0100 ✓	3.3600 ✓	2.0400	55.28	Mud	N/A	N/A	N/A	N/A	X
	2000965-12	A	Sample	1.3200 ✓	6.0900 ✓	4.0700 ✓	2.7500	57.65	Mud	N/A	N/A	N/A	N/A	X
	2000965-13	A	Sample	1.3200 ✓	6.5500 ✓	4.4700 ✓	3.1500	60.23	Mud	N/A	N/A	N/A	N/A	X
	2000965-14	A	Sample	1.3300 ✓	5.3800 ✓	3.8800 ✓	2.5500	62.96	Mud	N/A	N/A	N/A	N/A	X
	2000965-15	A	Sample	1.3100 ✓	8.8600 ✓	5.8100 ✓	4.5000	59.60	Soil	N/A	N/A	N/A	N/A	X
	2000965-16	A	Sample	1.3200 ✓	5.9400 ✓	4.2700 ✓	2.9500	63.85	Mud	N/A	N/A	N/A	N/A	X
	2000965-17	A	Sample	1.3100 ✓	8.1600 ✓	5.4200 ✓	4.1100	60.00	Mud	N/A	N/A	N/A	N/A	X

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0D0318

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

Inst **HRMS-9**

Date/Time IN: **04/30/20 1304** Date/Time OUT: **05/01/20 1506**

Particle Size	SampleID	SampleType	Initial and Date:	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			CHT 04/30/20		RR 05/01/20			CHT 04/30/20					CHT 04/30/20
			Pan Tare Wt. (gms)										
			1.32	5.79	5.07			Soil					✓
			1.32	5.98	5.49								✓
			1.32	5.24	4.69								✓
			1.28	6.19	5.17								✓
			1.33	5.78	5.29								✓
			1.31	6.08	5.60								✓
			1.29	5.72	5.19								✓
			1.30	4.98	4.22								✓
			1.28	7.46	4.63			Mud					✓
			1.32	6.65	3.96								✓
			1.32	5.01	3.36								✓
			1.32	6.09	4.07								✓
			1.32	6.55	4.47								✓
			1.33	5.38	2.88								✓
			1.31	8.86	5.81			Soil					✓
			1.32	5.94	4.27			Mud					✓
			1.31	8.16	5.42								✓

*Sample homogenized in sample container unless otherwise noted.

Batch: B0E0020

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000965-01	11.87 ✓	83.89262	9.9581	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-02	11.25 ✓	89.48497	10.0671	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-03	11.67 ✓	85.96939	10.0326	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-04	13.02 ✓	79.22607	10.3152	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-05	11.85 ✓	88.98876	10.5452	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-06	11.28 ✓	89.9371	10.1449	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-07	11.61 ✓	88.03613	10.2210	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-08	12.66 ✓	79.34782	10.0454	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-09	19.05 ✓	54.20712	10.3265	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-10	20.29 ✓	49.53096	10.0498	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-11	18.23 ✓	55.28455	10.0784	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-12	17.35 ✓	57.65199	10.0026	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-13	17.24 ✓	60.22944	10.3836	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-14	15.92 ✓	62.96296	10.0237	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-15	17.23 ✓	59.60265	10.2695	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-16	16.29 ✓	63.85281	10.4016	20	03-May-20 06:19	ACO			Sediment	1613 Full List
2000965-17	17.25 ✓	60	10.3500	20	03-May-20 06:19	ACO			Sediment	1613 Full List
B0E0020-BLK1	10			20	03-May-20 06:19	ACO				QC
B0E0020-BS1	10			20	03-May-20 06:19	ACO	18F1913 ✓	10 ✓		QC
B0E0020-DUP1	17.34 ✓	57.65199	9.9969	20	03-May-20 06:19	ACO				QC

All bolded data on report verified against written benchsheet by (initial/date) *z* 05/09/20

Printed: 5/9/2020 1:27:42PM
Page 1 of 1

RX ^{C1}

Process Sheet

Workorder: 2000965

Prep Expiration: 2021-04-25
Client: Anchor QEA, LLC

C1 06/04/2020
Workorder Due: 05-May-20 00:00

TAT: 7

RUSH!

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

Prep Batch: BoF0044

Prep Data Entered: AO 06/10/20
Date and Initials

Initial Sequence: SoF0056

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000965-01	<input type="checkbox"/>	PDI-150SC-A-00-01-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-02	<input type="checkbox"/>	PDI-150SC-A-01-02-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-03	<input type="checkbox"/>	PDI-150SC-A-02-03-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-04	<input type="checkbox"/>	PDI-150SC-A-03-04-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-05	<input checked="" type="checkbox"/>	PDI-150SC-A-04-05-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-06	<input type="checkbox"/>	PDI-150SC-A-05-06-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-07	<input type="checkbox"/>	PDI-150SC-A-06-07-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-08	<input type="checkbox"/>	PDI-150SC-A-07-08-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-09	<input type="checkbox"/>	PDI-1163SC-A-01-02-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-10	<input type="checkbox"/>	PDI-163SC-A-00-01-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-11	<input type="checkbox"/>	PDI-163SC-A-01-02-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-12	<input type="checkbox"/>	PDI-163SC-A-02-03-200425	28-Apr-20 09:40	WR-2 G-5	DUP
2000965-13	<input type="checkbox"/>	PDI-163SC-A-03-04-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-14	<input type="checkbox"/>	PDI-163SC-A-04-05-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-15	<input type="checkbox"/>	PDI-163SC-A-05-06-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-16	<input type="checkbox"/>	PDI-163SC-A-06-07-200425	28-Apr-20 09:40	WR-2 G-5	
2000965-17	<input type="checkbox"/>	PDI-163SC-A-07-08-200425	28-Apr-20 09:40	WR-2 G-5	

WO Comments: Dioxin - 10g (dry weight)
One dup required per batch of 20 samples

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

Prep Check Out: RR 06/06/20
Prep Check In: DF 06/06/20

Prep Reconciled Initials/Date: RR 06/06/20
Spike Reconciled Initials/Date: DF 06/06/20
VialBoxID: Cranston

PREPARATION BENCH SHEET

Matrix: Solid

B0F0044

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 06-Jun-20 10:44

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:	AP CHEM/DATE	ABSG CHEM/DATE	AA CHEM/DATE	Florisil CHEM/DATE	RS CHEM/WIT DATE
					CRS/PS CHEM/WIT DATE	NA	00 06/09/20	00 06/09/20	00 06/10/20	00 06/10/20
A1	B0F0044-BLK1	NA	(10.00)	DF 06/06/20	00 06/06/09/20	NA	00 06/09/20	00 06/09/20	00 06/10/20	00 06/10/20
A2	B0F0044-BS1	↓	(10.00)							
A3	B0F0044-DUP1 2001111-01	12.40	12.50							
A4	2000855-15RE2	15.54	15.56							
A5	2000965-05RE1	11.24	11.27							
A6	2001111-01	12.40	12.40							
A7	2001111-02	11.97	11.98							
A8	2001111-03	12.14	12.15							
A9	2001111-04	11.89	11.90							
A10	2001111-05	12.22	12.26							
A11	2001111-06	11.76	11.76							
A12	2001111-07	(A) 11.29	11.30							
B1	2001111-08	11.27	11.44							
B2	2001111-09	11.98	11.99							
B3	2001111-10	11.75	11.78							

black yellow

IS: <u>1922301, 10mL V0</u>	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: <u>RR 06/06/20</u>	Soxhlet Siphoned Chemist/Date: <u>DF 06/06/20</u>	Notes: (A) Column clogged, pressure used to push through 00 06/09/20
NS: <u>18F1913, 10mL V0</u>	Start Date/Time: <u>06/06/20 14:55</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>DF 06/06/20</u>	Vial Transfer Chemist/Date: <u>DF 06/06/20</u>	
PS/CRS: <u>20E0701, 10mL V6</u>	Stop Date/Time: <u>06/07/20 7:10</u>	Other: <u>NA</u>	Balance ID: <u>HRMS-0</u>		
RS: <u>20E0702, 10mL Vp</u>	Final Volume(s): <u>CL4 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
 - 7 = Soxhlet approached dryness

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000855-15RE2	15.56 ✓	64.33892	10.0111	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2000965-05RE1	11.27 ✓	88.98876	10.0290	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2001111-01	12.4 ✓	80.61674	9.9965	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2001111-02	11.98 ✓	83.54115	10.0082	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2001111-03	12.15 ✓	82.36842	10.0078	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2001111-04	11.9 ✓	84.13361	10.0119	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2001111-05	12.26 ✓	81.81818	10.0309	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2001111-06	11.76 ✓	85.04902	10.0018	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2001111-07	11.3 ✓	88.61048	10.0130	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2001111-08	11.44 ✓	88.72952	10.1507	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2001111-09	11.99 ✓	83.48416	10.0098	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
2001111-10	11.78 ✓	85.07042	10.0213	20	06-Jun-20 10:44	RR			Sediment	1613 Full List
B0F0044-BLK1	10			20	06-Jun-20 10:44	RR				QC
B0F0044-BS1	10			20	06-Jun-20 10:44	RR	18F1913	10		QC
B0F0044-DUP1	12.5 ✓	80.61674	10.0711	20	06-Jun-20 10:44	RR				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 06/10/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-4.qld

Last Altered: Thursday, June 04, 2020 9:11:28 AM Pacific Daylight Time
Printed: Thursday, June 04, 2020 9:16:11 AM Pacific Daylight Time

HN 06/04/2020

CT 06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_4, Date: 03-Jun-2020, Time: 10:26:12, ID: B0E0020-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DIL	EMPC
1	1 2,3,7,8-TCDD			NO	0.888	10.000	26.516		1.001				0.0642	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.000	31.473		1.001				0.0885	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.000	34.825		1.000				0.0619	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.000	34.921		1.000				0.0665	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.000	35.220		1.000				0.0766	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	10.000	38.746		1.000				0.125	
7	7 OCDD			NO	0.914	10.000	41.706		1.000				0.194	
8	8 2,3,7,8-TCDF			NO	0.751	10.000	25.612		1.001				0.0344	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.000	30.190		1.001				0.0380	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.000	31.176		1.001				0.0362	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.000	33.941		1.000				0.0555	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.000	34.079		1.000				0.0507	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.000	34.690		1.001				0.0531	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.000	35.560		1.000				0.0839	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.000	37.365		1.001				0.0775	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	39.278		1.000				0.0809	
17	17 OCDF			NO	0.806	10.000	41.897		1.000				0.121	
18	18 13C-2,3,7,8-TCDD	7.16e5	0.80	NO	1.16	10.000	26.507	26.48	1.026	1.026	178.02	89.0	0.213	
19	19 13C-1,2,3,7,8-PeCDD	4.95e5	0.63	NO	0.849	10.000	31.692	31.45	1.227	1.218	167.62	83.8	0.220	
20	20 13C-1,2,3,4,7,8-HxCDD	3.42e5	1.28	NO	0.779	10.000	34.830	34.81	1.014	1.014	178.06	89.0	0.431	
21	21 13C-1,2,3,6,7,8-HxCDD	4.27e5	1.27	NO	1.02	10.000	34.944	34.92	1.017	1.017	170.27	85.1	0.330	
22	22 13C-1,2,3,7,8,9-HxCDD	3.82e5	1.23	NO	0.903	10.000	35.215	35.21	1.025	1.025	171.26	85.6	0.372	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.02	NO	0.689	10.000	38.739	38.73	1.128	1.128	148.19	74.1	0.466	
24	24 13C-OCDD	4.15e5	0.89	NO	0.652	10.000	41.761	41.71	1.216	1.214	257.90	64.5	0.562	
25	25 13C-2,3,7,8-TCDF	9.10e5	0.77	NO	1.06	10.000	25.549	25.59	0.989	0.991	164.73	82.4	0.387	
26	26 13C-1,2,3,7,8-PeCDF	7.81e5	1.61	NO	0.838	10.000	30.076	30.17	1.165	1.168	178.54	89.3	0.416	
27	27 13C-2,3,4,7,8-PeCDF	7.35e5	1.58	NO	0.817	10.000	31.029	31.15	1.202	1.206	172.50	86.3	0.427	
28	28 13C-1,2,3,4,7,8-HxCDF	4.20e5	0.50	NO	1.01	10.000	33.961	33.94	0.989	0.988	168.84	84.4	0.628	
29	29 13C-1,2,3,6,7,8-HxCDF	5.15e5	0.53	NO	1.17	10.000	34.085	34.07	0.992	0.992	178.67	89.3	0.542	
30	30 13C-2,3,4,6,7,8-HxCDF	4.55e5	0.51	NO	1.02	10.000	34.659	34.65	1.009	1.009	180.26	90.1	0.620	
31	31 13C-1,2,3,7,8,9-HxCDF	3.50e5	0.49	NO	0.860	10.000	35.558	35.56	1.035	1.035	165.04	82.5	0.737	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-4.qld

Last Altered: Thursday, June 04, 2020 9:11:28 AM Pacific Daylight Time

Printed: Thursday, June 04, 2020 9:16:11 AM Pacific Daylight Time

Name: 200603R1_4, Date: 03-Jun-2020, Time: 10:26:12, ID: B0E0020-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.92e5	0.44	NO	0.774	10.000	37.307	37.33	1.086	1.087	152.66	76.3	0.603	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.08e5	0.42	NO	0.521	10.000	39.336	39.28	1.145	1.144	161.86	80.9	0.896	
34	34 13C-OCDF	4.87e5	0.91	NO	0.746	10.000	41.933	41.90	1.221	1.220	264.38	66.1	0.518	
35	35 37Cl-2,3,7,8-TCDD	2.73e5			1.04	10.000	26.538	26.51	1.028	1.027	75.757	94.7	0.0814	
36	36 13C-1,2,3,4-TCDD	6.96e5	0.80	NO	1.00	10.000	25.890	25.83	1.000	1.000	200.00	100	0.246	
37	37 13C-1,2,3,4-TCDF	1.04e6	0.78	NO	1.00	10.000	24.360	24.15	1.000	1.000	200.00	100	0.410	
38	38 13C-1,2,3,4,6,9-HxCDF	4.94e5	0.51	NO	1.00	10.000	34.420	34.35	1.000	1.000	200.00	100	0.633	
39	39 Total Tetra-Dioxins				0.888	10.000	24.620		0.000				0.0424	
40	40 Total Penta-Dioxins				0.908	10.000	29.960		0.000		0.00000		0.0224	0.0471
41	41 Total Hexa-Dioxins				0.892	10.000	33.635		0.000				0.0344	
42	42 Total Hepta-Dioxins				0.864	10.000	37.640		0.000				0.0689	
43	43 Total Tetra-Furans				0.751	10.000	23.610		0.000				0.0156	
44	44 1st Func. Penta-Furans				0.893	10.000	27.580		0.000				0.0115	
45	45 Total Penta-Furans				0.893	10.000	29.275		0.000		0.00000		0.0182	0.00826
46	46 Total Hexa-Furans				0.934	10.000	33.555		0.000				0.0271	
47	47 Total Hepta-Furans				0.873	10.000	37.835		0.000				0.0391	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-4.qld

Last Altered: Thursday, June 04, 2020 9:11:28 AM Pacific Daylight Time

Printed: Thursday, June 04, 2020 9:16:11 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_4, Date: 03-Jun-2020, Time: 10:26:12, ID: B0E0020-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	Total Penta-Dioxins	31.13	1.924e3	1.896e3	8.841e1	6.495e1	1.36	YES	0.000e0	0.00000	0.047089	0.0224

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\200603R1\200603R1-4.qld

Last Altered: Thursday, June 04, 2020 9:11:28 AM Pacific Daylight Time

Printed: Thursday, June 04, 2020 9:16:11 AM Pacific Daylight Time

Name: 200603R1_4, Date: 03-Jun-2020, Time: 10:26:12, ID: B0E0020-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	Total Penta-Furans	29.59	1.010e3	1.311e3	1.698e1	1.999e1	0.85	YES	0.000e0	0.00000	0.00826...	0.0182

Hexa-Furans

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

Hepta-Furans

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

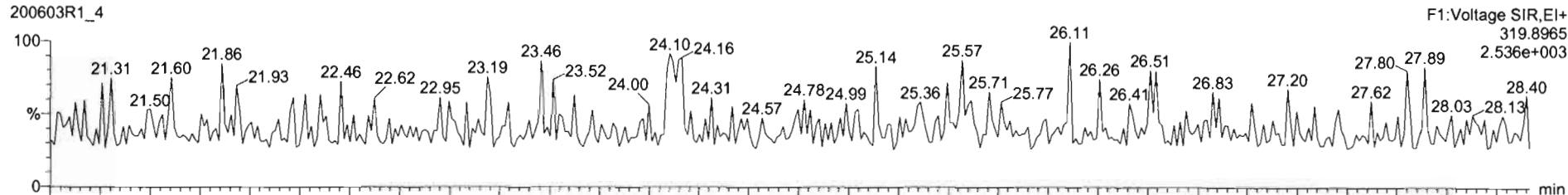
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

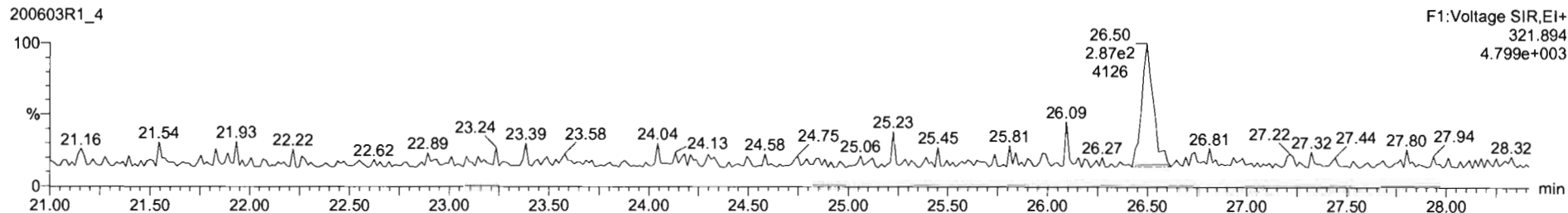
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2,3,7,8-TCDD

200603R1_4

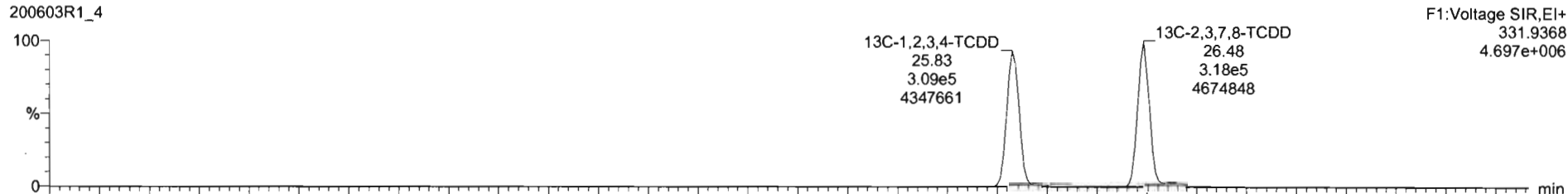


200603R1_4

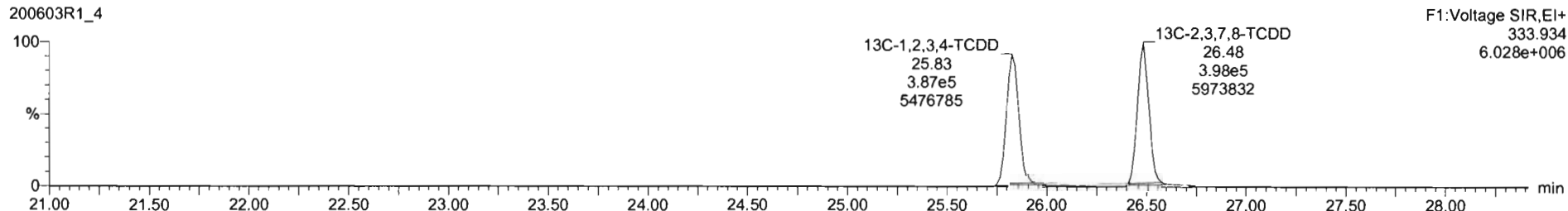


13C-2,3,7,8-TCDD

200603R1_4



200603R1_4



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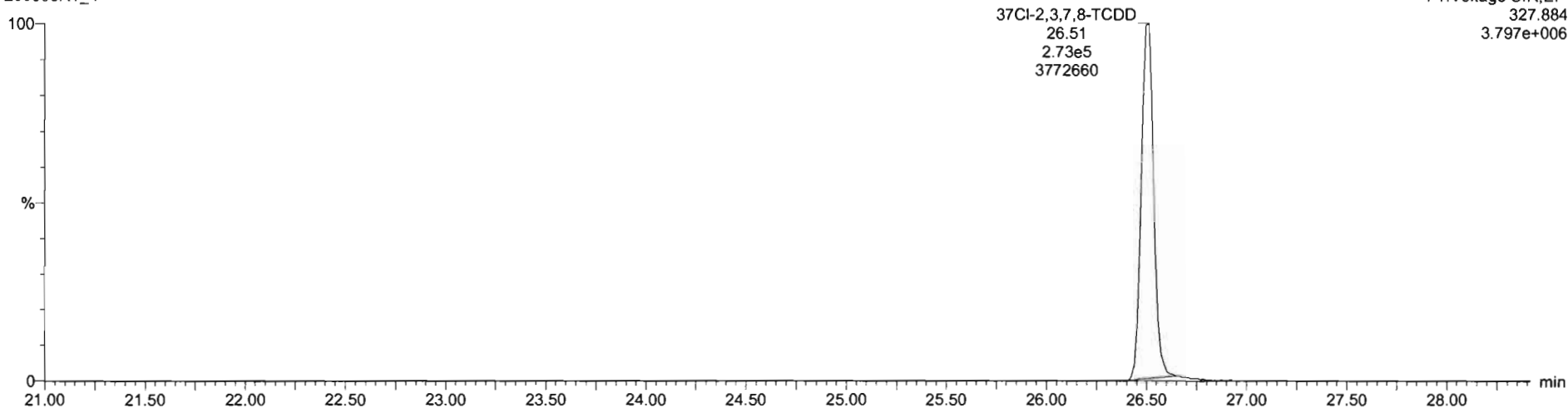
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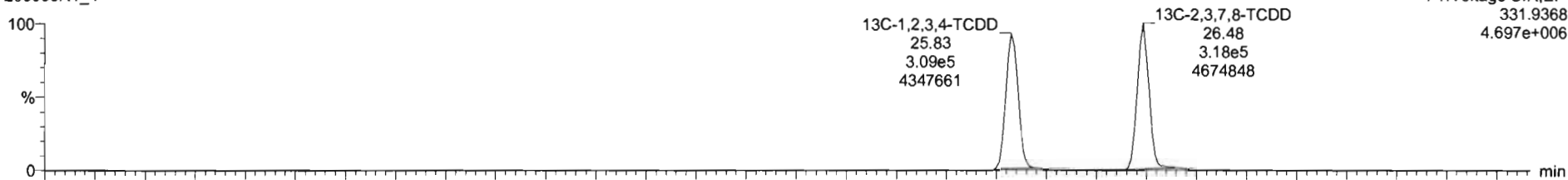
37Cl-2,3,7,8-TCDD

200603R1_4

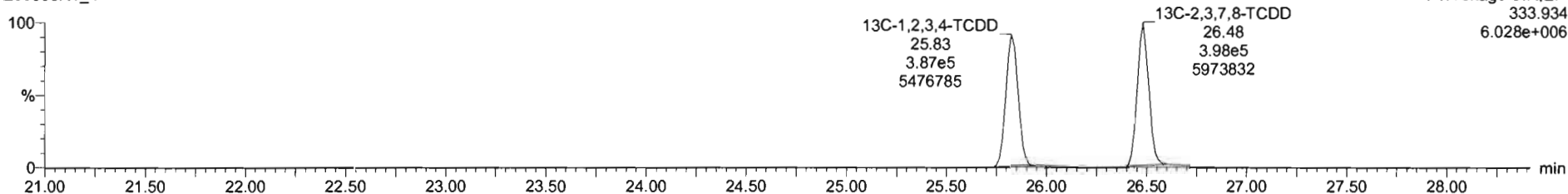


13C-1,2,3,4-TCDD

200603R1_4



200603R1_4



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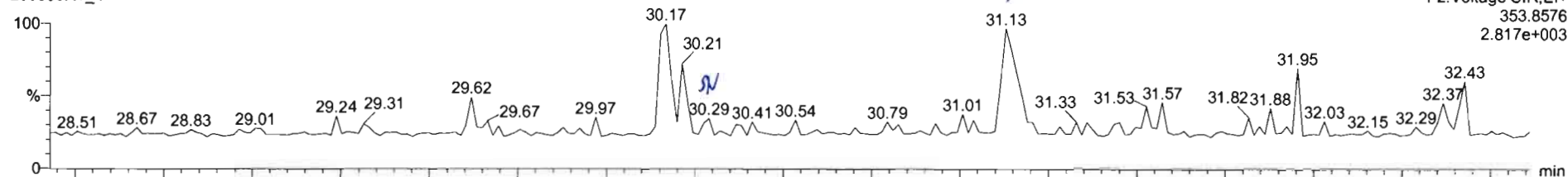
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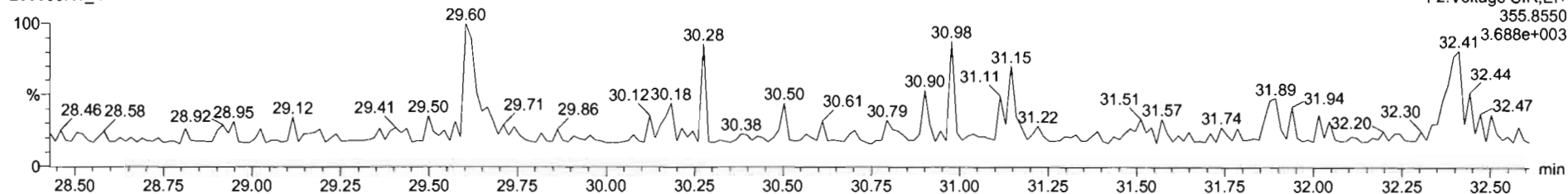
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1,2,3,7,8-PeCDD

200603R1_4

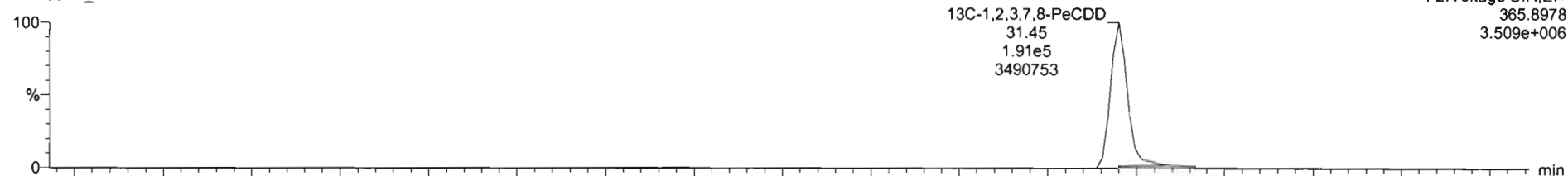


200603R1_4

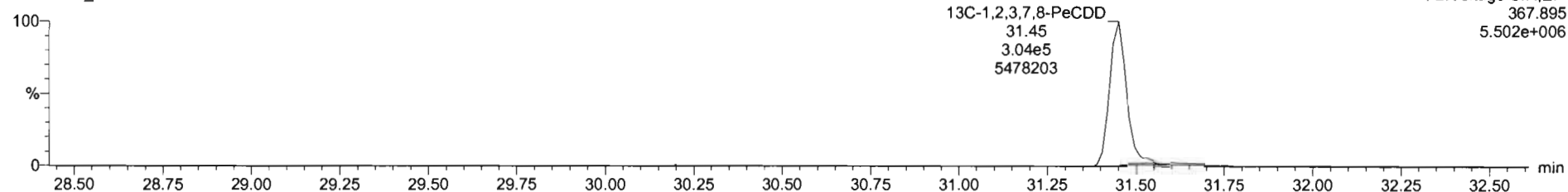


13C-1,2,3,7,8-PeCDD

200603R1_4

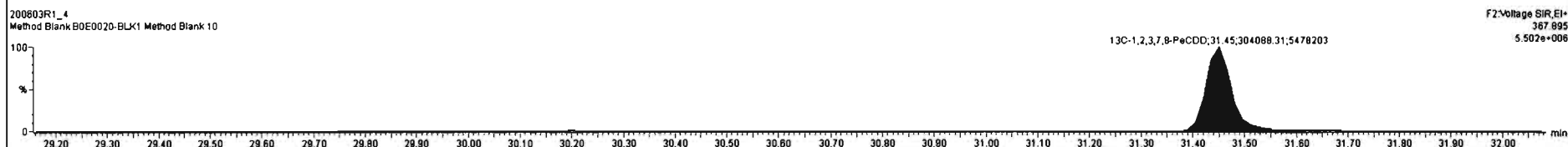
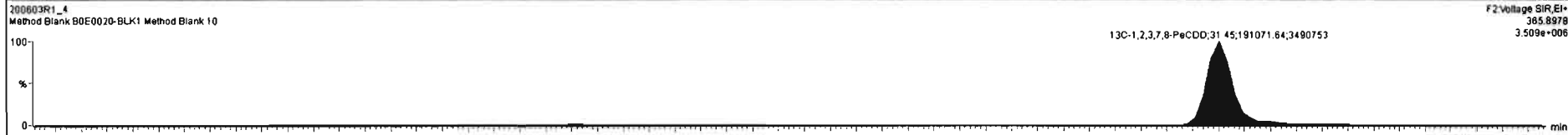
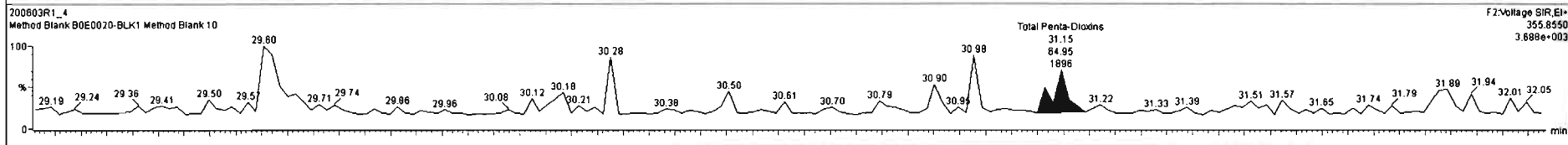
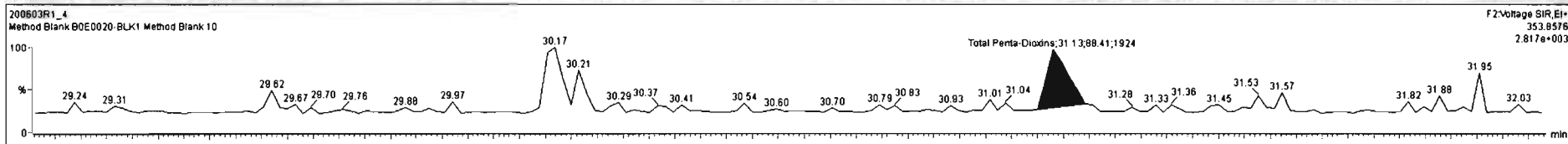


200603R1_4



Name	Resp	RA	n/y	RF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8883	10.000					0.0424	
40 Total Penta-Dioxins				0.9081	10.000			0.000		0.0224	0.0471
41 Total Hexa-Dioxins				0.8923	10.000					0.0344	
42 Total Hepta-Dioxins				0.8638	10.000					0.0689	
43 Total Total Dioxins				0.7640	10.000					0.1668	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	31.13	8.841e1	6.495e1	1.36	YES	0.047099	0.00000



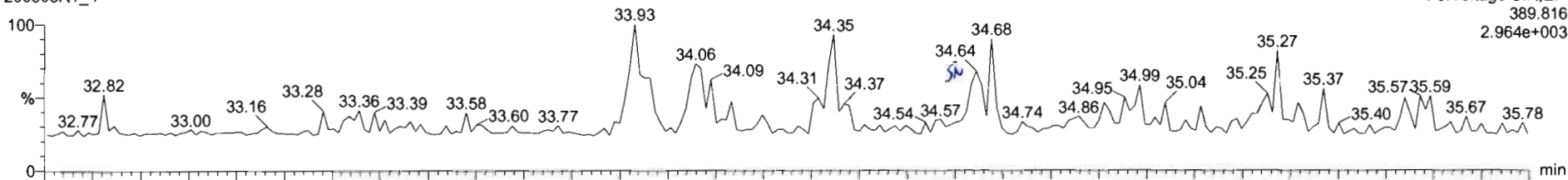
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

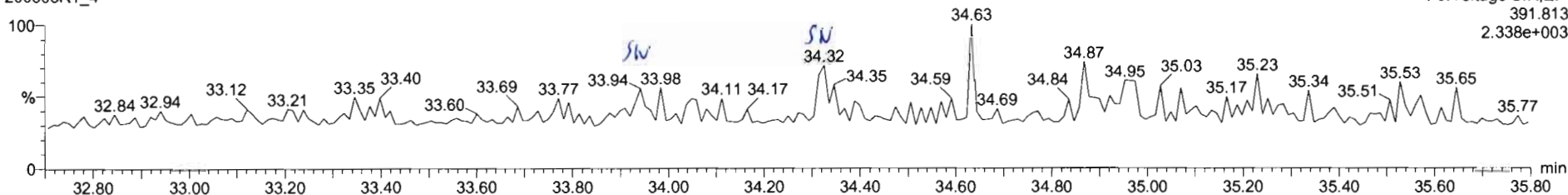
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1,2,3,4,7,8-HxCDD

200603R1_4

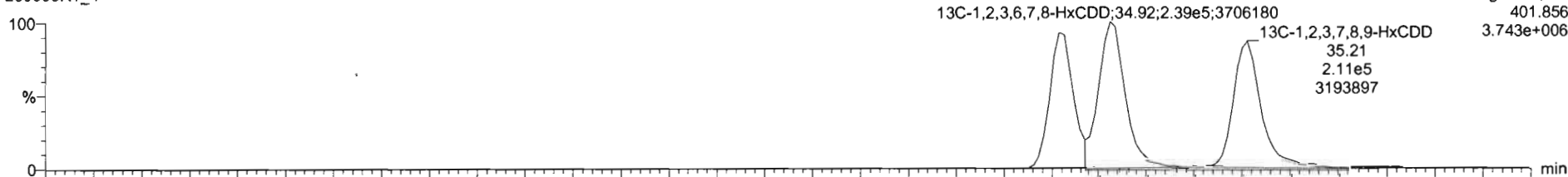


200603R1_4

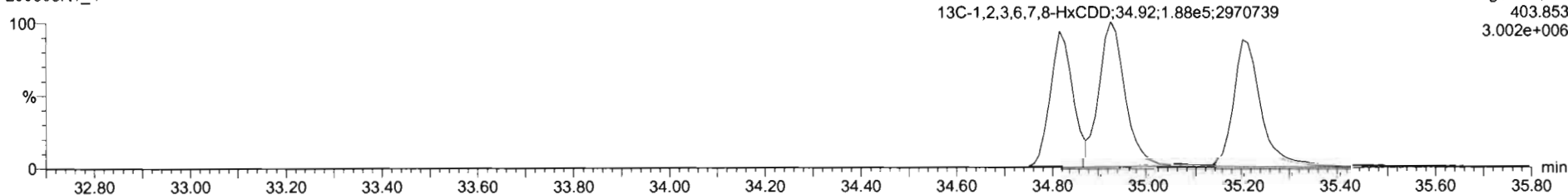


13C-1,2,3,4,7,8-HxCDD

200603R1_4

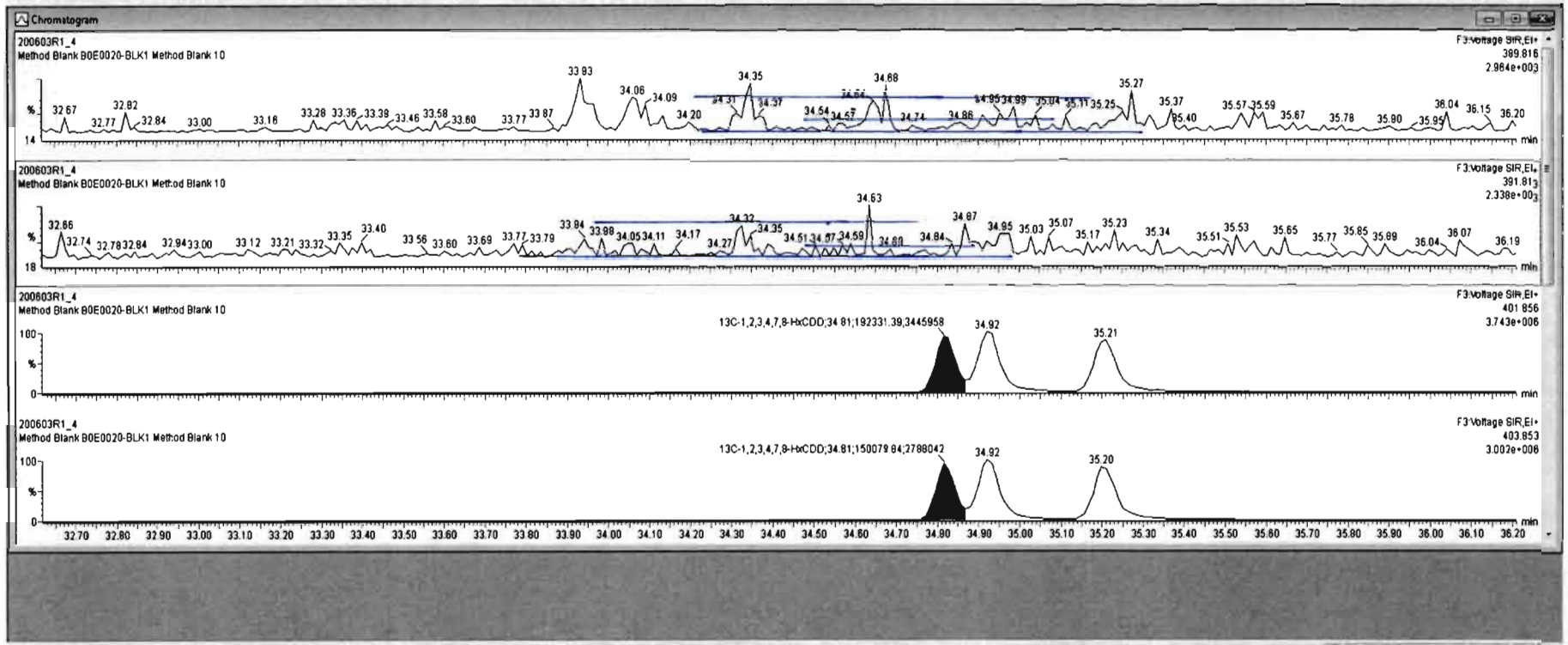


200603R1_4



Name	Resp	RA	rvj	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8883	10.000					0.0424	
40 Total Penta-Dioxins				0.9081	10.000			0.000		0.0224	0.0471
41 Total Hexa-Dioxins				0.8923	10.000					0.0344	
42 Total Hepta-Dioxins				0.8639	10.000					0.0699	
43 Total Triox Benzene				0.7610	10.000					0.0168	

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



Dataset: Untitled

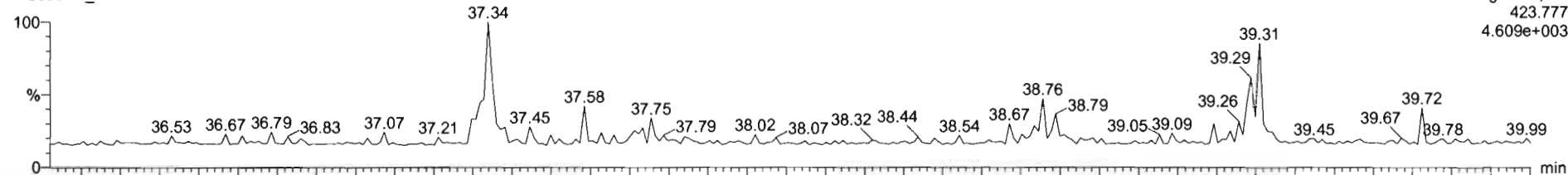
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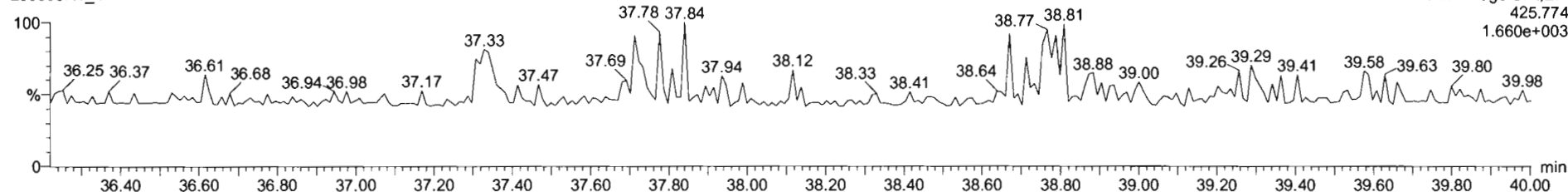
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1,2,3,4,6,7,8-HpCDD

200603R1_4

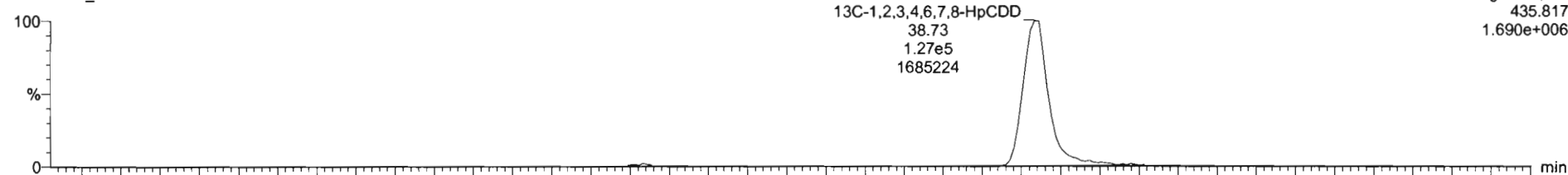


200603R1_4

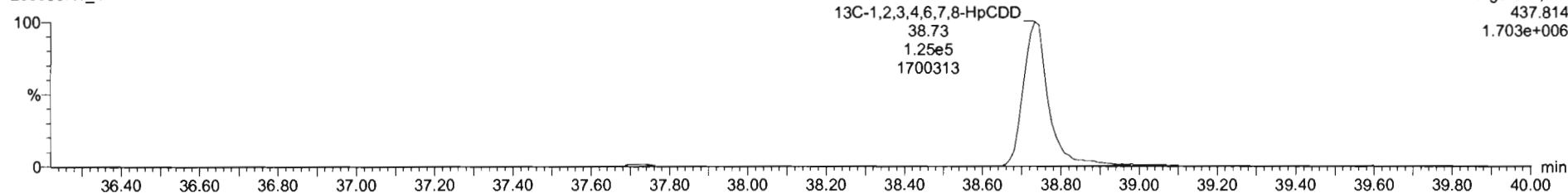


13C-1,2,3,4,6,7,8-HpCDD

200603R1_4



200603R1_4



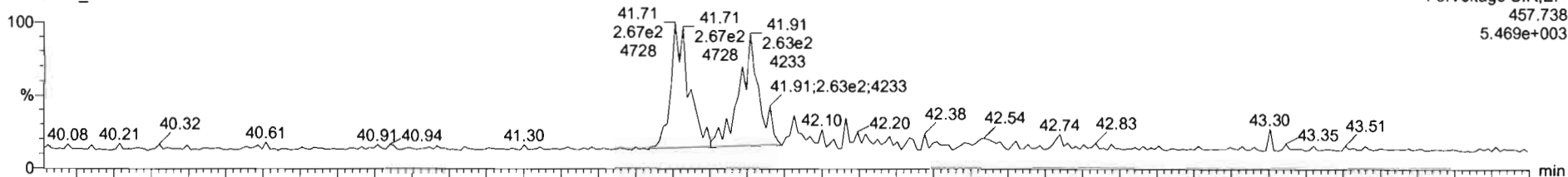
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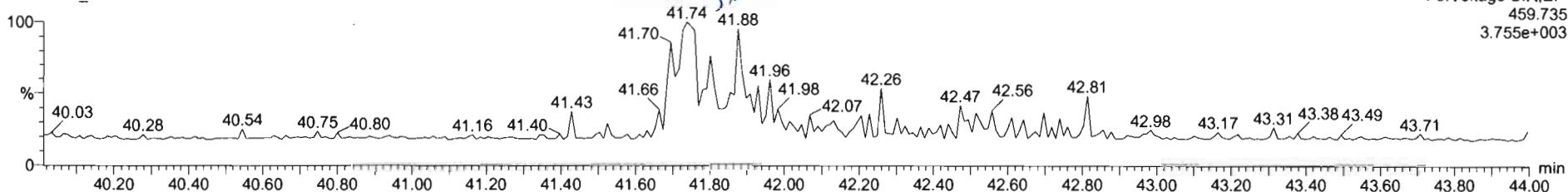
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OCDD

200603R1_4

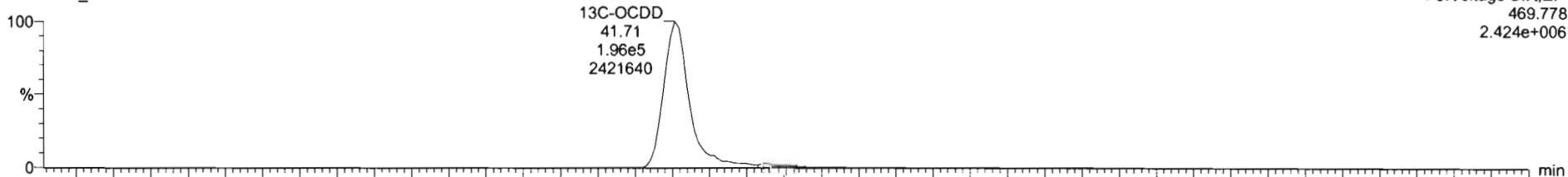


200603R1_4

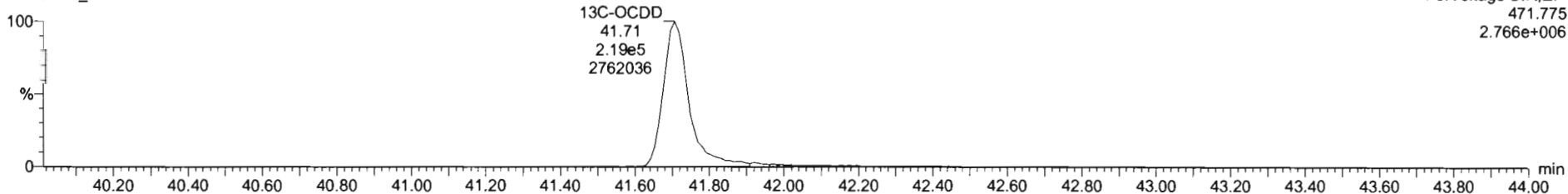


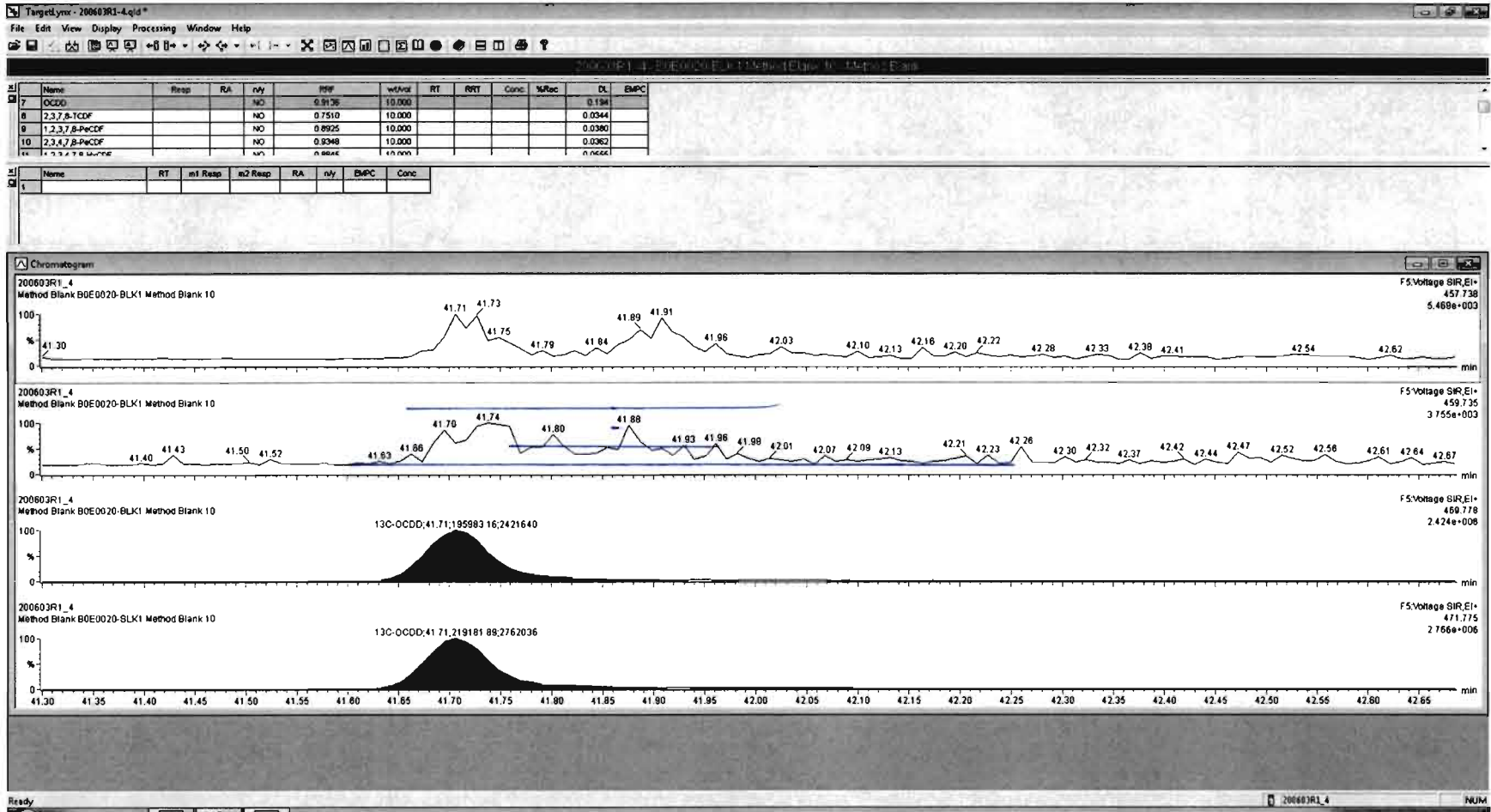
13C-OCDD

200603R1_4



200603R1_4





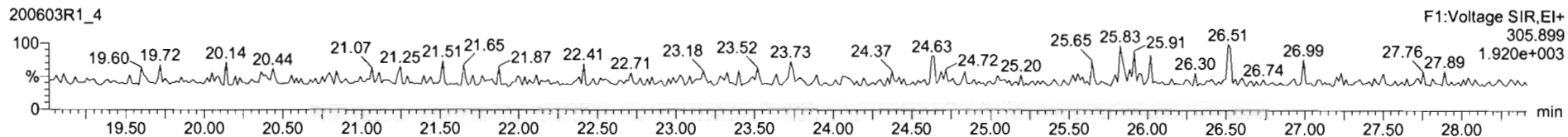
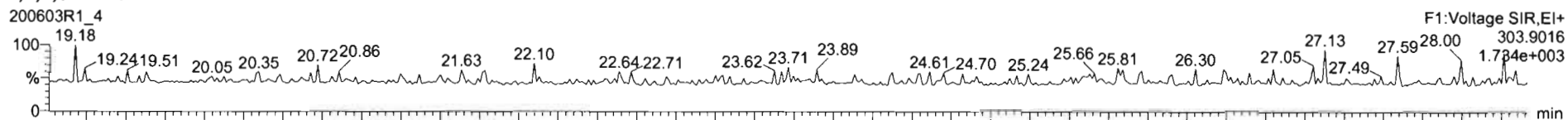
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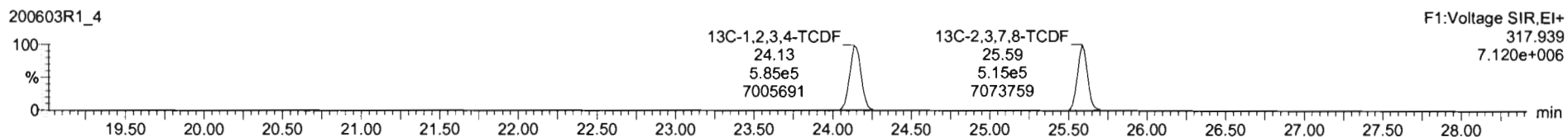
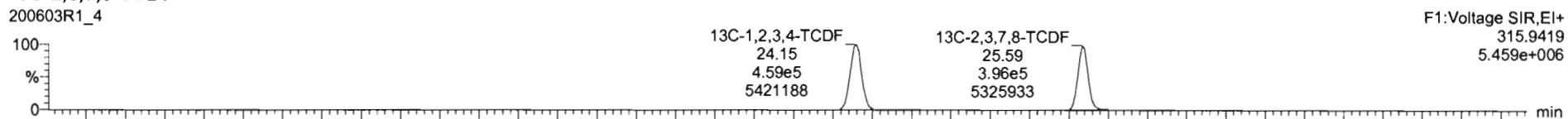
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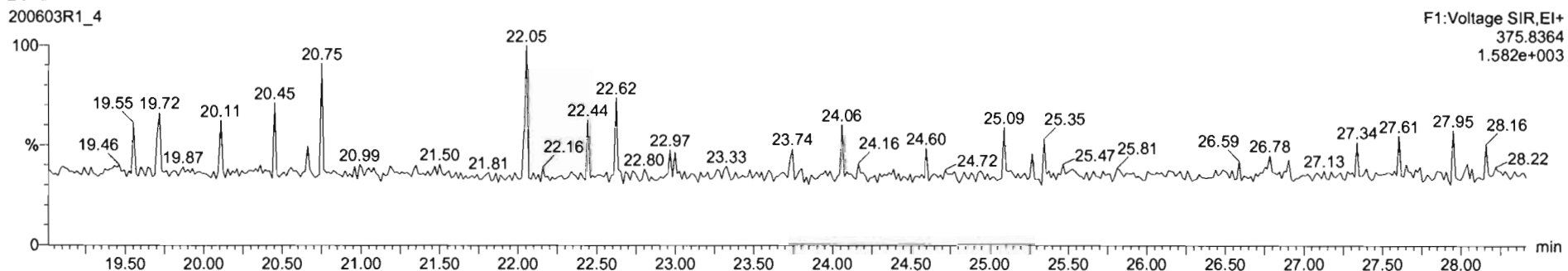
2,3,7,8-TCDF



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



DPE1



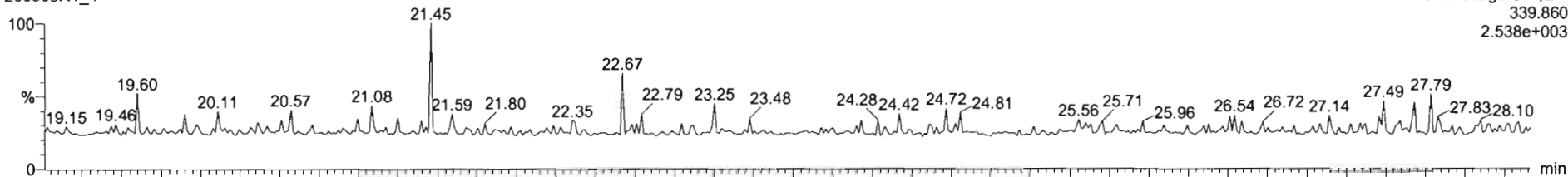
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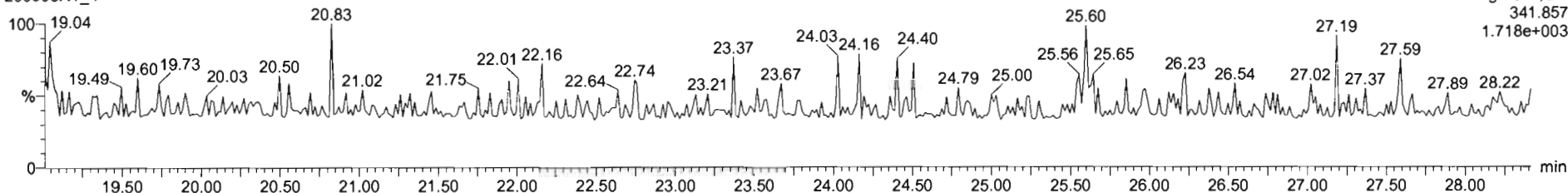
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1st Func. Penta-Furans

200603R1_4

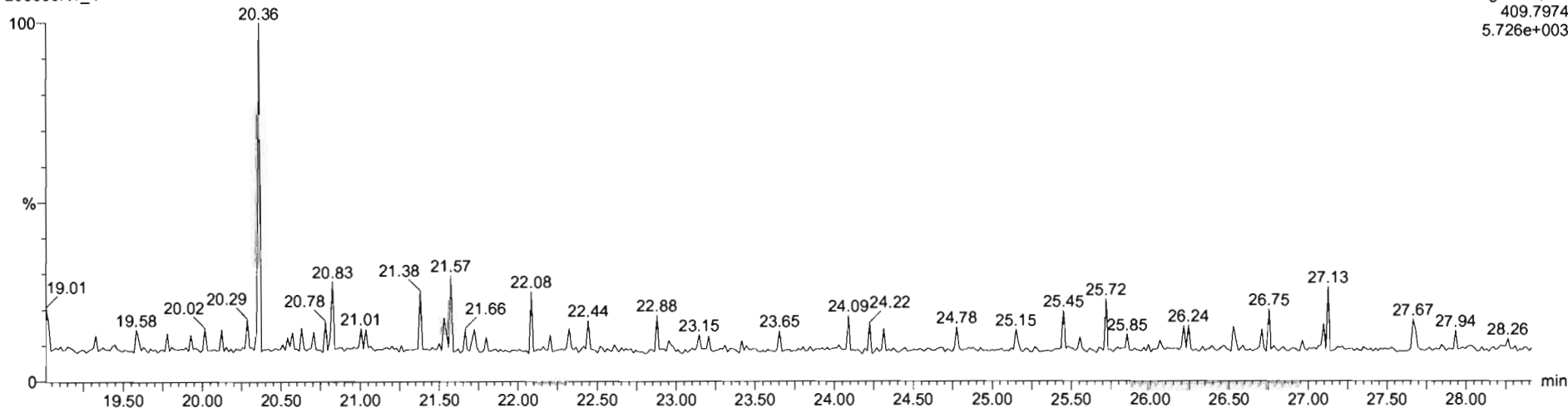


200603R1_4



DPE6

200603R1_4

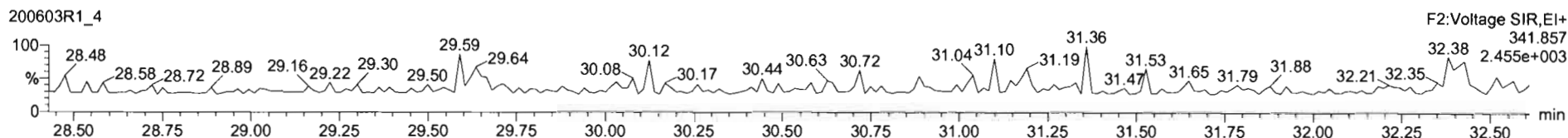
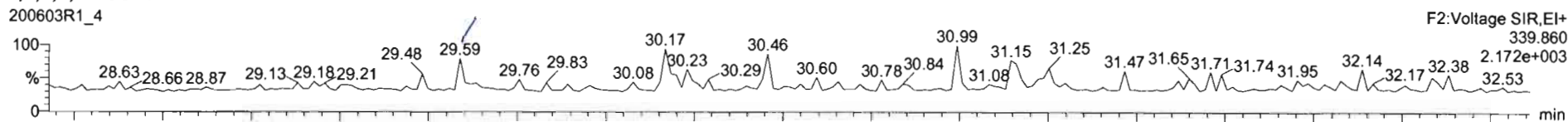


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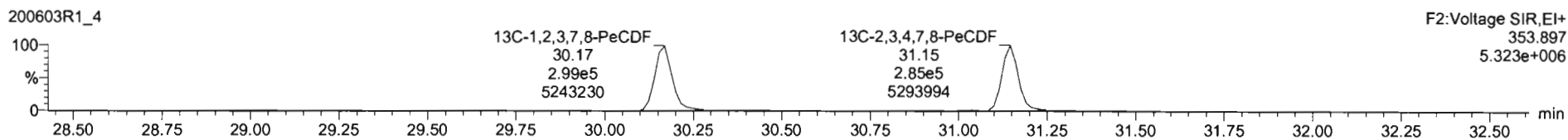
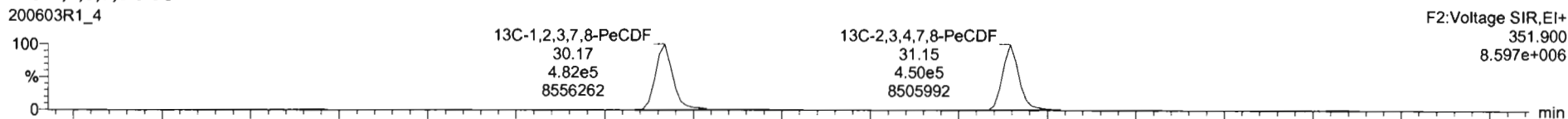
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

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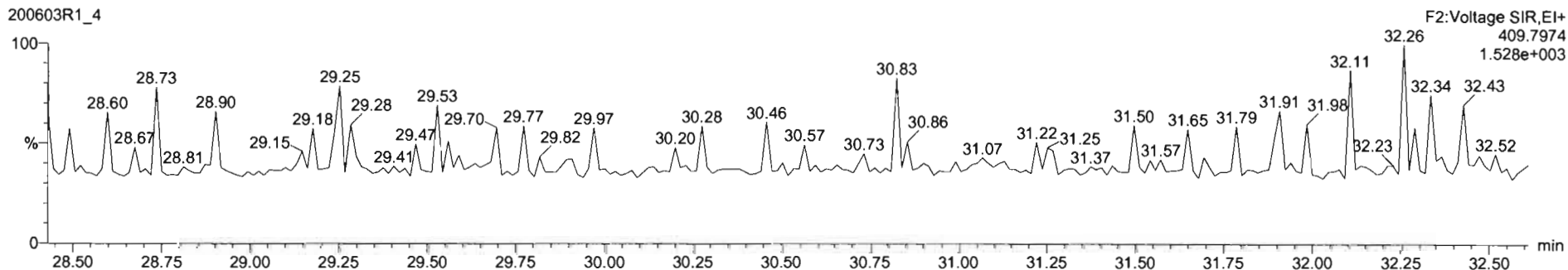
1,2,3,7,8-PeCDF



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



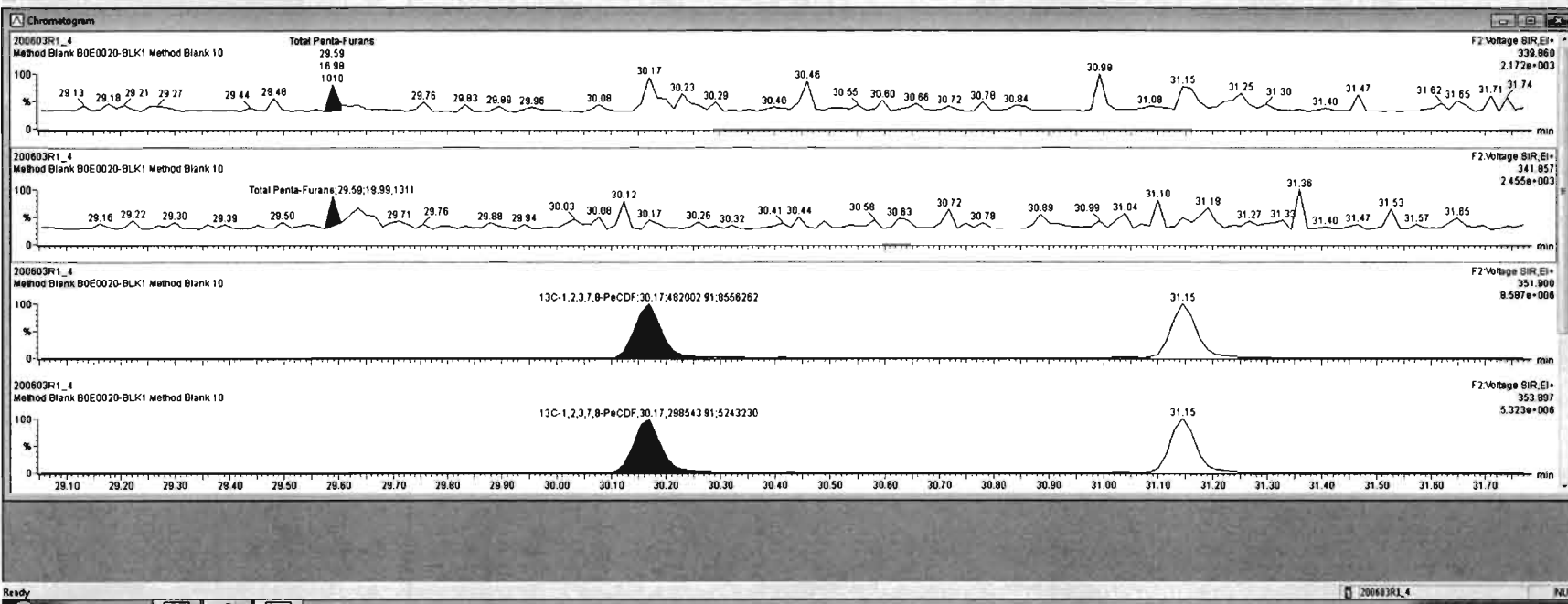
DPE2



Targetlynx - 200603R1-4.qid
 File Edit View Display Processing Window Help

Name	Resp	RA	nly	SPF	Method	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7510	10.000					0.0158	
44 Tot Furc. Penta-Furans				0.8925	10.000					0.0115	
45 Total Penta-Furans				0.8525	10.000			0.000		0.00026	0.00026
46 Total Hexa-Furans				0.8341	10.000					0.0271	
27 Total Methyl Esters				0.8734	10.000					n.m.	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	29.59	1.899e1	1.999e1	0.85	YES	0.00026	0.00000



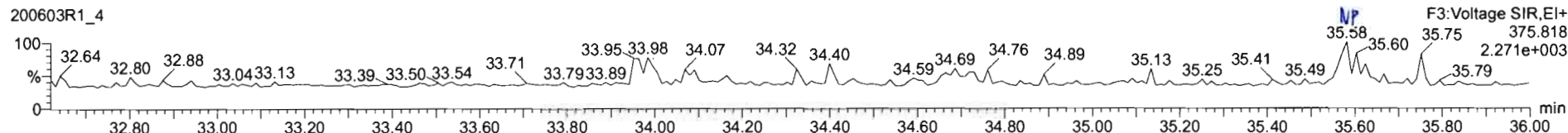
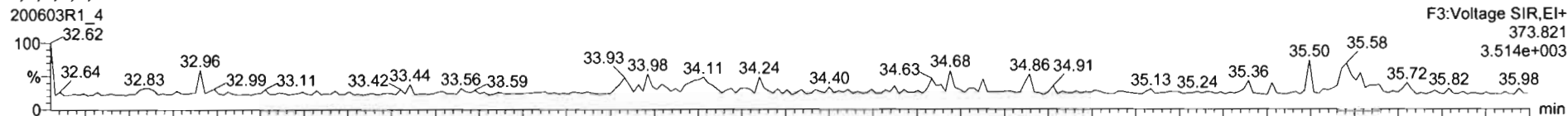
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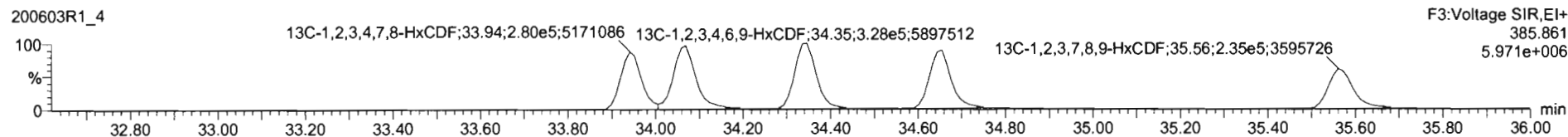
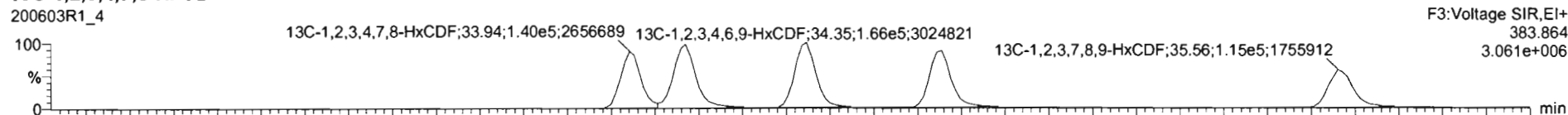
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_4, Date: 03-Jun-2020, Time: 10:26:12, ID: B0E0020-BLK1 Method Blank 10, Description: Method Blank

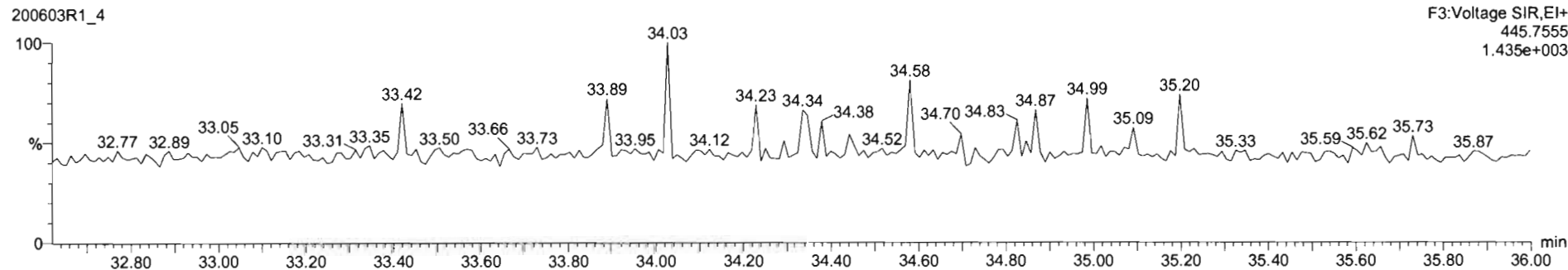
1,2,3,4,7,8-HxCDF



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



DPE3

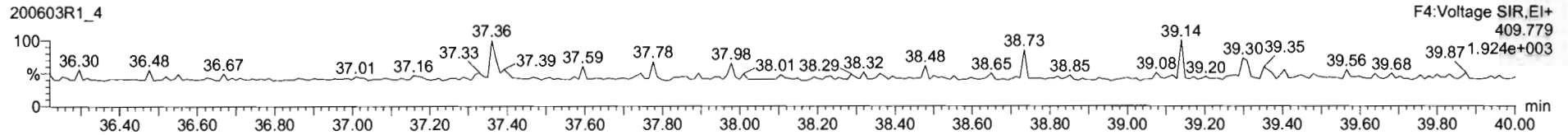
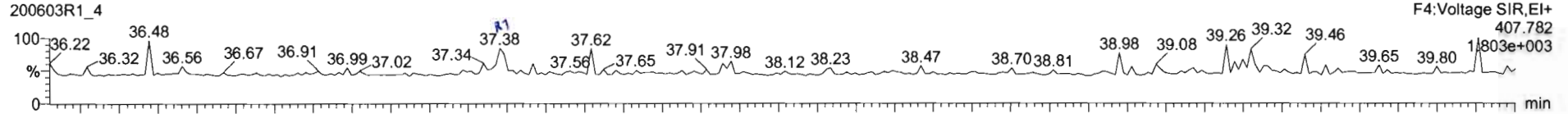


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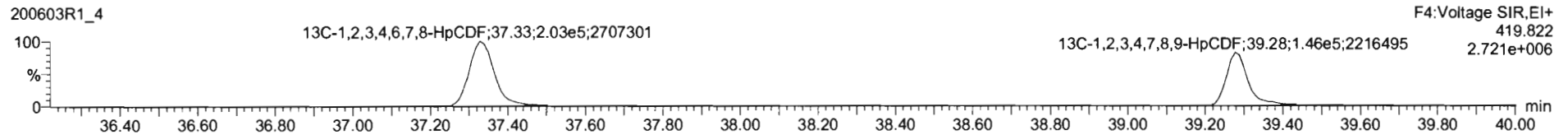
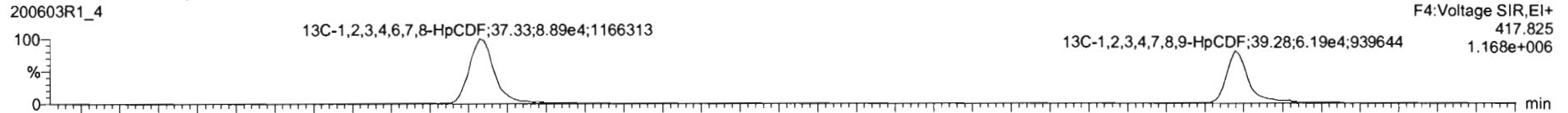
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_4, Date: 03-Jun-2020, Time: 10:26:12, ID: B0E0020-BLK1 Method Blank 10, Description: Method Blank

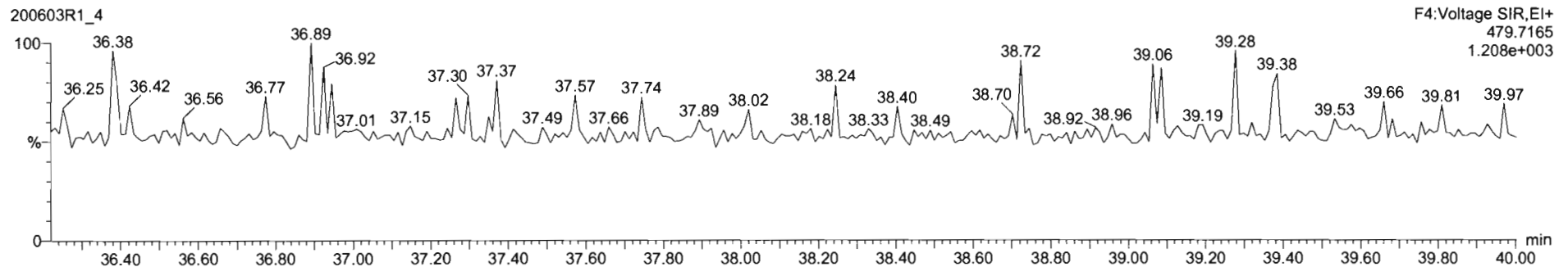
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13C-1,2,3,4,6,7,8-HpCDF



DPE4

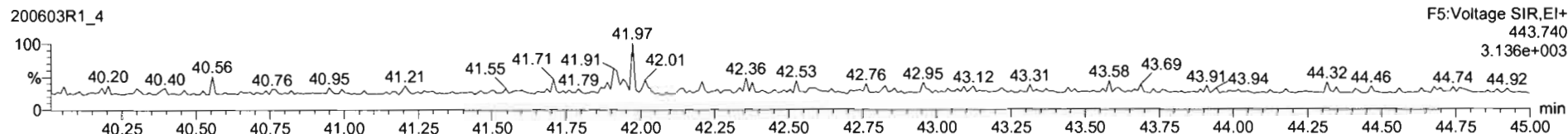
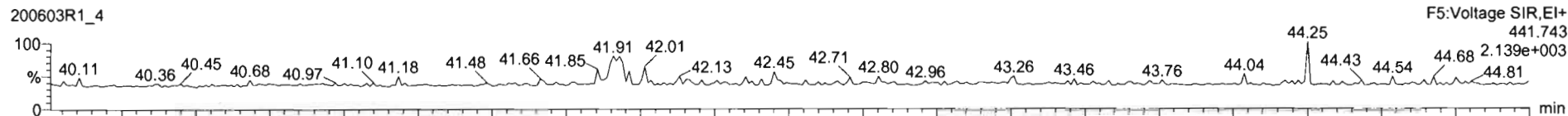


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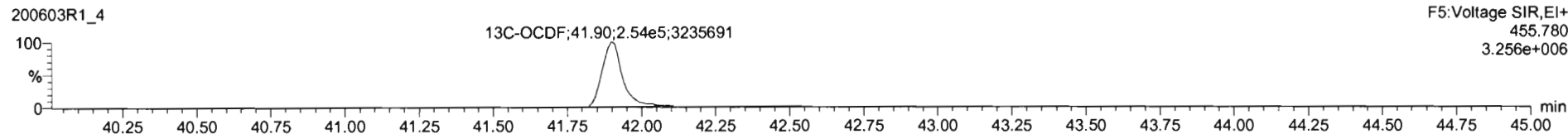
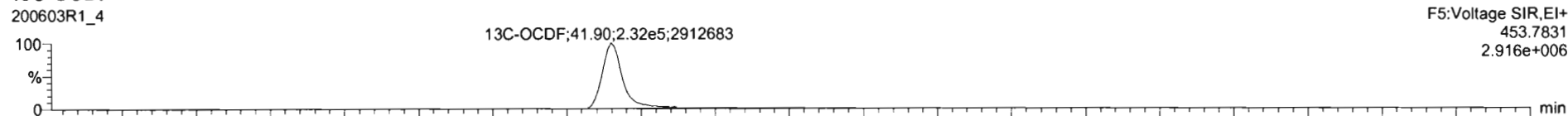
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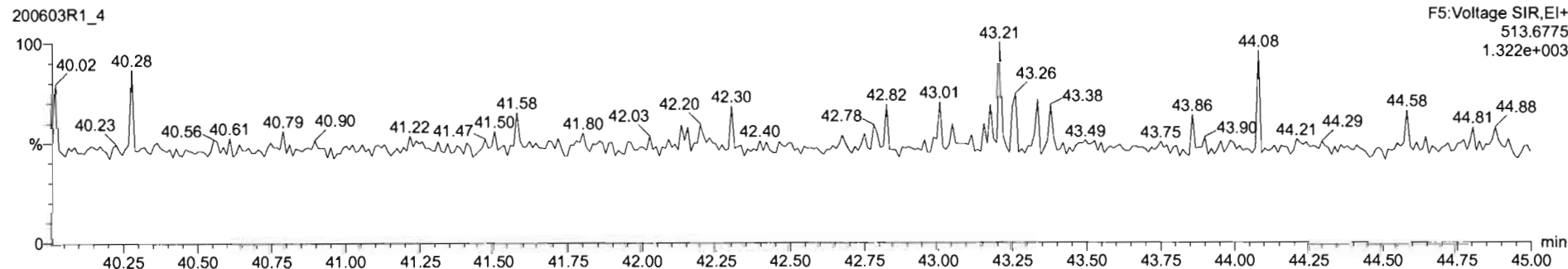
OCDF



13C-OCDF



DPE5

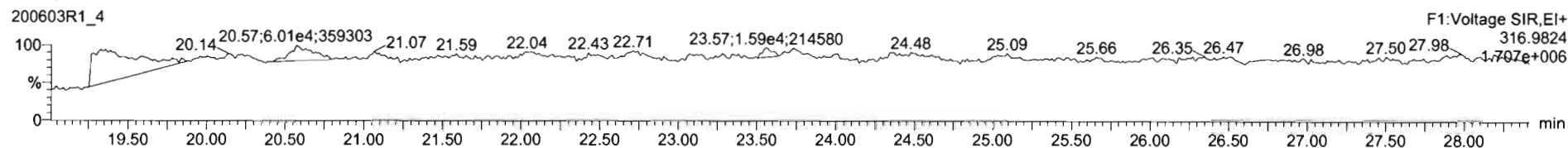


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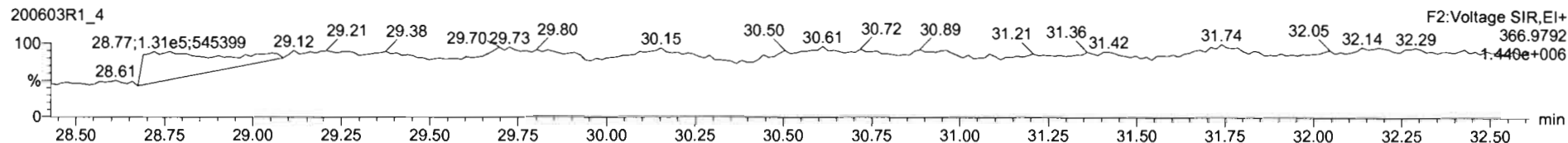
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Name: 200603R1_4, Date: 03-Jun-2020, Time: 10:26:12, ID: B0E0020-BLK1 Method Blank 10, Description: Method Blank

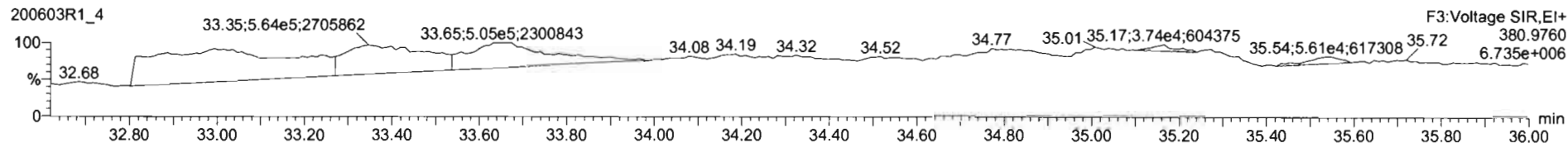
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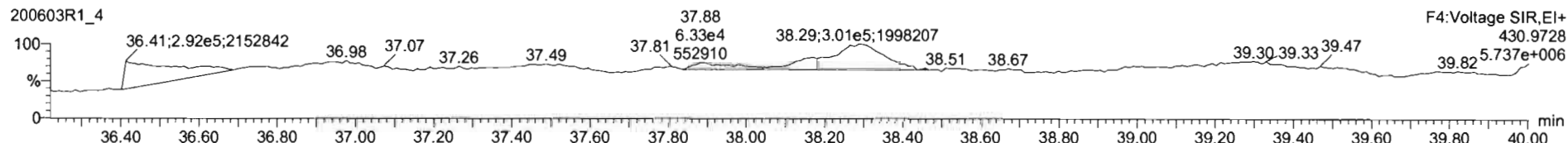
PFK2



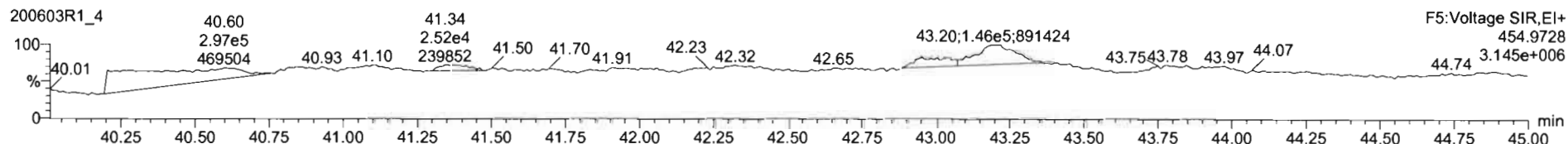
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R1\200603R1-2.qld

Last Altered: Thursday, June 04, 2020 8:26:07 AM Pacific Daylight Time
Printed: Thursday, June 04, 2020 8:35:48 AM Pacific Daylight Time

HN 06/04/2020

6706/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_2, Date: 03-Jun-2020, Time: 08:52:45, ID: B0E0020-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	7.04e4	0.77	NO	0.888	10.000	26.516	26.50	1.001	1.001	17.930		0.0793	17.9
2	2 1,2,3,7,8-PeCDD	2.62e5	0.62	NO	0.908	10.000	31.473	31.47	1.001	1.000	90.911		0.139	90.9
3	3 1,2,3,4,7,8-HxCDD	1.97e5	1.23	NO	1.03	10.000	34.836	34.84	1.000	1.000	89.706		0.224	89.7
4	4 1,2,3,6,7,8-HxCDD	2.25e5	1.23	NO	0.892	10.000	34.932	34.94	1.000	1.000	97.309		0.224	97.3
5	5 1,2,3,7,8,9-HxCDD	1.90e5	1.26	NO	0.887	10.000	35.220	35.22	1.000	1.000	94.726		0.270	94.7
6	6 1,2,3,4,6,7,8-HpCDD	1.31e5	1.03	NO	0.864	10.000	38.746	38.76	1.000	1.001	92.280		0.290	92.3
7	7 OCDD	2.31e5	0.86	NO	0.914	10.000	41.717	41.73	1.000	1.000	189.65		0.545	190
8	8 2,3,7,8-TCDF	8.15e4	0.74	NO	0.751	10.000	25.612	25.61	1.001	1.001	18.334		0.0552	18.3
9	9 1,2,3,7,8-PeCDF	3.82e5	1.57	NO	0.893	10.000	30.190	30.18	1.001	1.000	92.107		0.214	92.1
10	10 2,3,4,7,8-PeCDF	4.05e5	1.53	NO	0.935	10.000	31.177	31.16	1.001	1.000	93.589		0.198	93.6
11	11 1,2,3,4,7,8-HxCDF	2.17e5	1.20	NO	0.884	10.000	33.952	33.96	1.000	1.000	95.376		0.373	95.4
12	12 1,2,3,6,7,8-HxCDF	2.73e5	1.13	NO	0.889	10.000	34.079	34.08	1.000	1.000	98.327		0.314	98.3
13	13 2,3,4,6,7,8-HxCDF	2.58e5	1.21	NO	0.934	10.000	34.690	34.67	1.001	1.000	97.016		0.337	97.0
14	14 1,2,3,7,8,9-HxCDF	1.85e5	1.20	NO	0.871	10.000	35.571	35.58	1.000	1.000	95.891		0.515	95.9
15	15 1,2,3,4,6,7,8-HpCDF	1.60e5	0.99	NO	0.873	10.000	37.376	37.35	1.001	1.000	98.530		0.372	98.5
16	16 1,2,3,4,7,8,9-HpCDF	1.23e5	0.99	NO	1.01	10.000	39.288	39.30	1.000	1.000	97.381		0.404	97.4
17	17 OCDF	2.61e5	0.85	NO	0.806	10.000	41.908	41.93	1.000	1.001	195.54		0.479	196
18	18 13C-2,3,7,8-TCDD	8.84e5	0.78	NO	1.16	10.000	26.507	26.48	1.026	1.026	205.67	103	0.266	
19	19 13C-1,2,3,7,8-PeCDD	6.35e5	0.63	NO	0.849	10.000	31.692	31.45	1.227	1.218	201.30	101	0.414	
20	20 13C-1,2,3,4,7,8-HxCDD	4.24e5	1.28	NO	0.779	10.000	34.830	34.83	1.014	1.014	201.79	101	0.623	
21	21 13C-1,2,3,6,7,8-HxCDD	5.19e5	1.27	NO	1.02	10.000	34.944	34.93	1.017	1.017	189.06	94.5	0.478	
22	22 13C-1,2,3,7,8,9-HxCDD	4.51e5	1.24	NO	0.903	10.000	35.215	35.21	1.025	1.025	185.35	92.7	0.538	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.28e5	1.07	NO	0.689	10.000	38.739	38.73	1.128	1.128	176.23	88.1	0.509	
24	24 13C-OCDD	5.33e5	0.89	NO	0.652	10.000	41.761	41.72	1.216	1.215	302.91	75.7	0.734	
25	25 13C-2,3,7,8-TCDF	1.18e6	0.77	NO	1.06	10.000	25.549	25.59	0.989	0.991	204.08	102	0.337	
26	26 13C-1,2,3,7,8-PeCDF	9.30e5	1.58	NO	0.838	10.000	30.076	30.17	1.165	1.168	202.68	101	0.387	
27	27 13C-2,3,4,7,8-PeCDF	9.26e5	1.59	NO	0.817	10.000	31.029	31.15	1.202	1.206	206.99	103	0.397	
28	28 13C-1,2,3,4,7,8-HxCDF	5.15e5	0.50	NO	1.01	10.000	33.961	33.95	0.989	0.989	189.53	94.8	0.724	
29	29 13C-1,2,3,6,7,8-HxCDF	6.24e5	0.52	NO	1.17	10.000	34.085	34.07	0.992	0.992	198.28	99.1	0.625	
30	30 13C-2,3,4,6,7,8-HxCDF	5.69e5	0.51	NO	1.02	10.000	34.659	34.65	1.009	1.009	206.26	103	0.714	
31	31 13C-1,2,3,7,8,9-HxCDF	4.43e5	0.51	NO	0.860	10.000	35.558	35.57	1.035	1.036	191.17	95.6	0.849	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-2.qld

Last Altered: Thursday, June 04, 2020 8:26:07 AM Pacific Daylight Time

Printed: Thursday, June 04, 2020 8:35:48 AM Pacific Daylight Time

Name: 200603R1_2, Date: 03-Jun-2020, Time: 08:52:45, ID: B0E0020-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.71e5	0.42	NO	0.774	10.000	37.307	37.34	1.086	1.087	177.74	88.9	0.622	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.50e5	0.42	NO	0.521	10.000	39.336	39.29	1.145	1.144	177.96	89.0	0.925	
34	34 13C-OCDF	6.63e5	0.89	NO	0.746	10.000	41.933	41.91	1.221	1.220	329.40	82.3	0.450	
35	35 37Cl-2,3,7,8-TCDD	3.15e5			1.04	10.000	26.538	26.50	1.028	1.026	81.784	102	0.0561	
36	36 13C-1,2,3,4-TCDD	7.43e5	0.79	NO	1.00	10.000	25.890	25.83	1.000	1.000	200.00	100	0.308	
37	37 13C-1,2,3,4-TCDF	1.10e6	0.78	NO	1.00	10.000	24.360	24.15	1.000	1.000	200.00	100	0.357	
38	38 13C-1,2,3,4,6,9-HxCDF	5.40e5	0.51	NO	1.00	10.000	34.420	34.35	1.000	1.000	200.00	100	0.730	

Dataset: Untitled

Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
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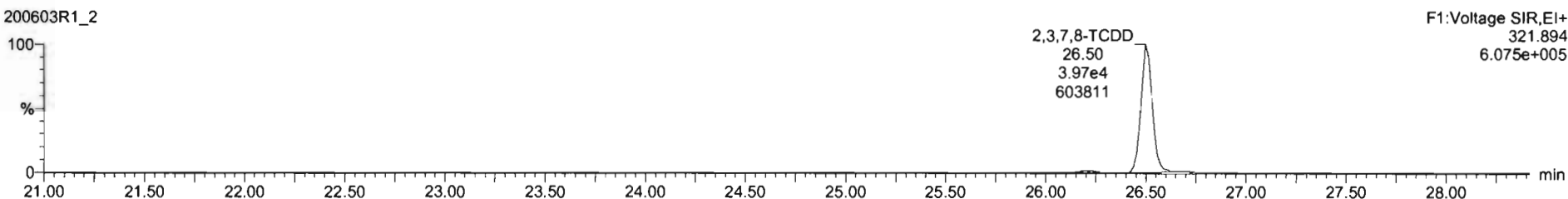
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2,3,7,8-TCDD

200603R1_2

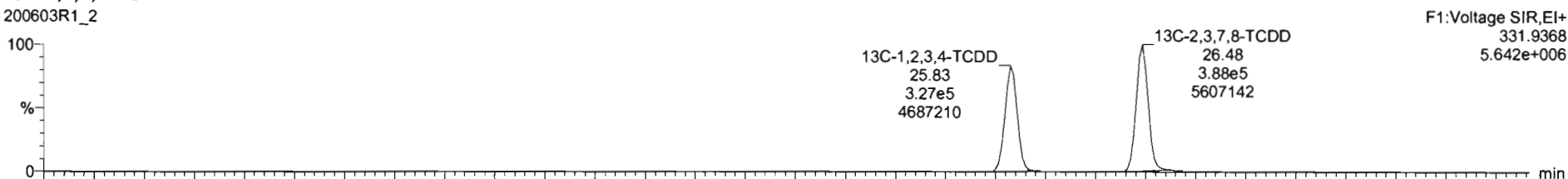


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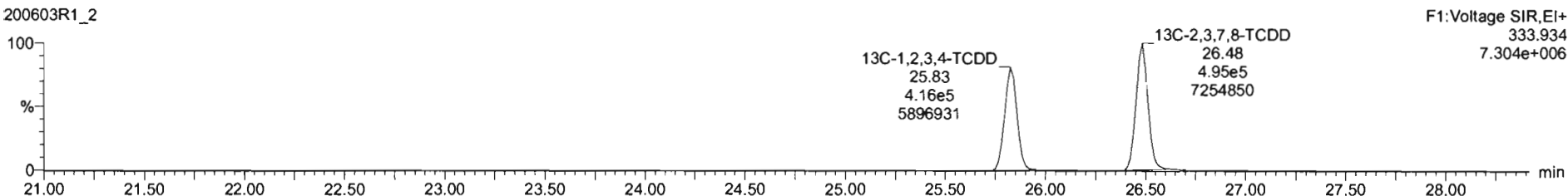


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200603R1_2



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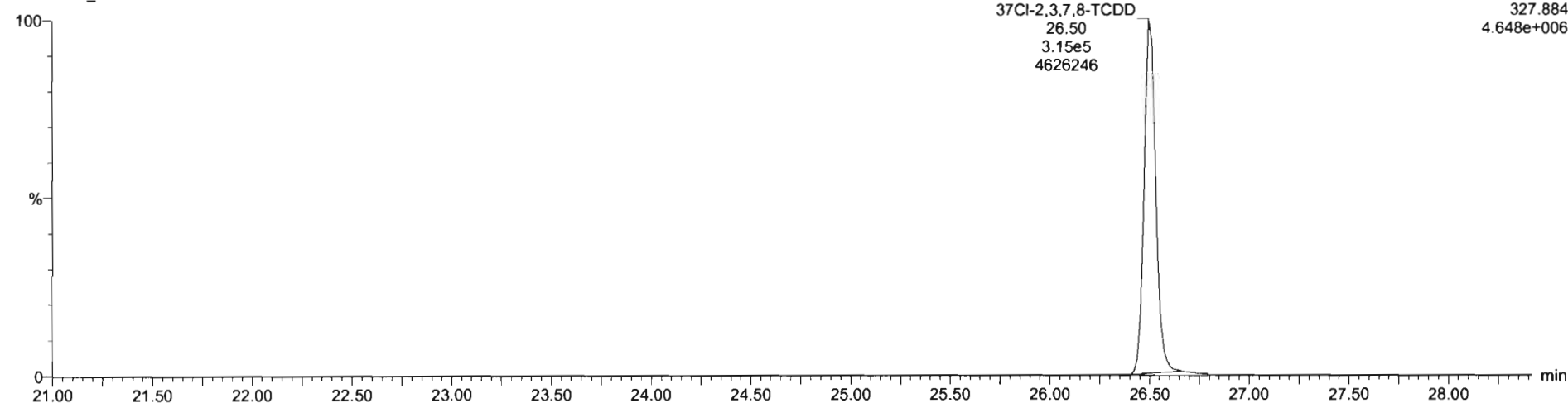
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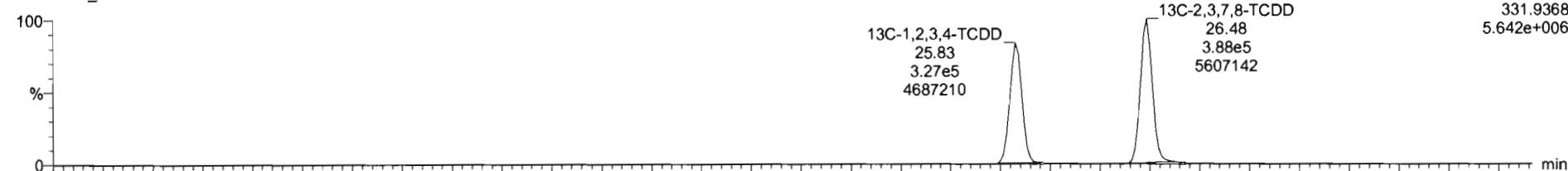
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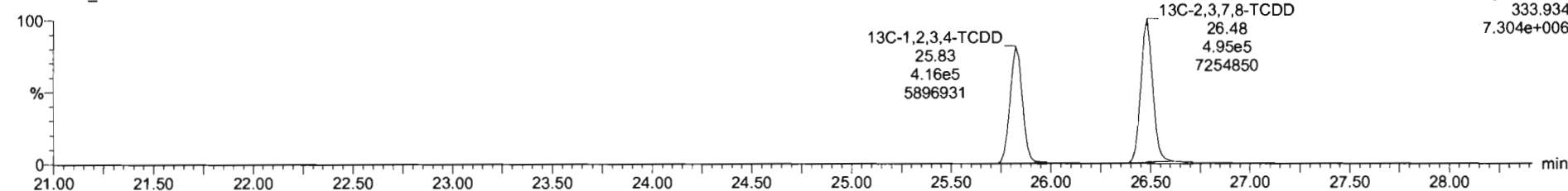


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200603R1_2



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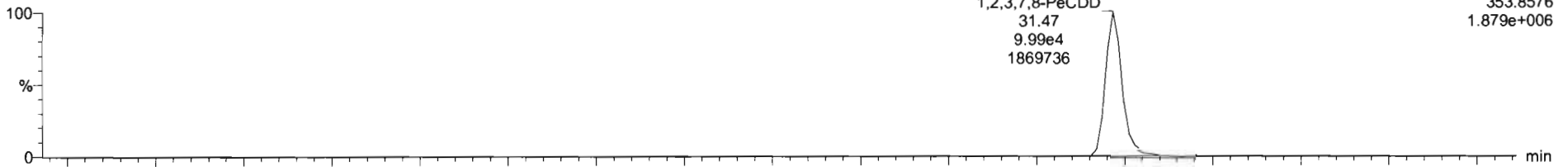
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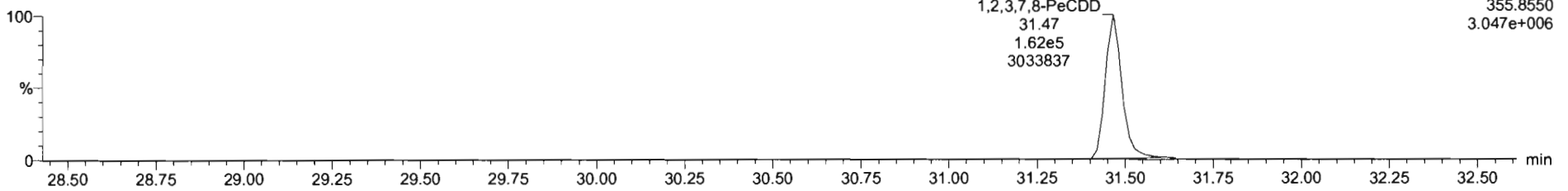
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1,2,3,7,8-PeCDD

200603R1_2

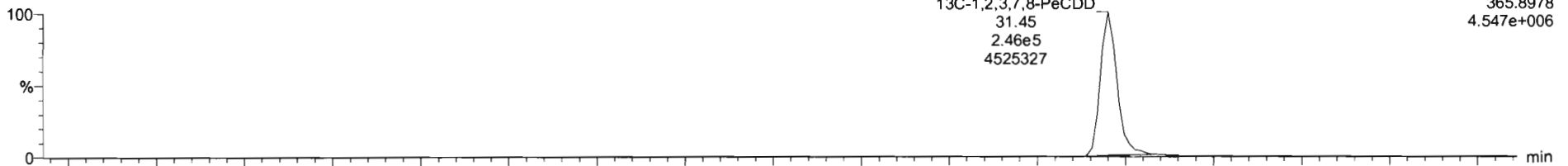


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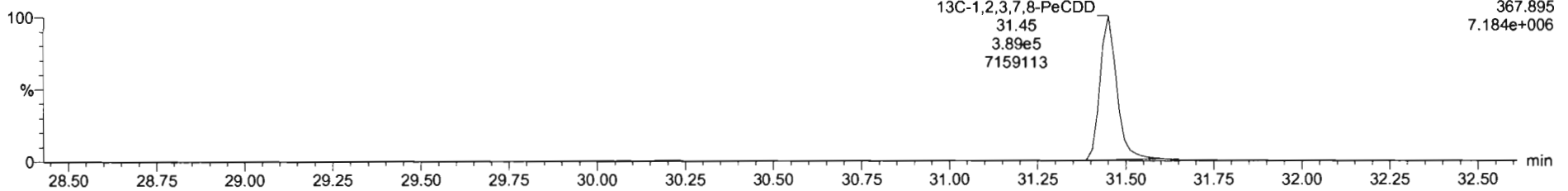


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200603R1_2



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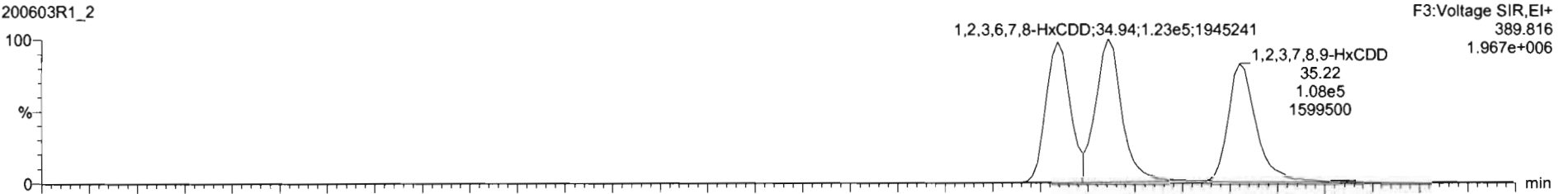
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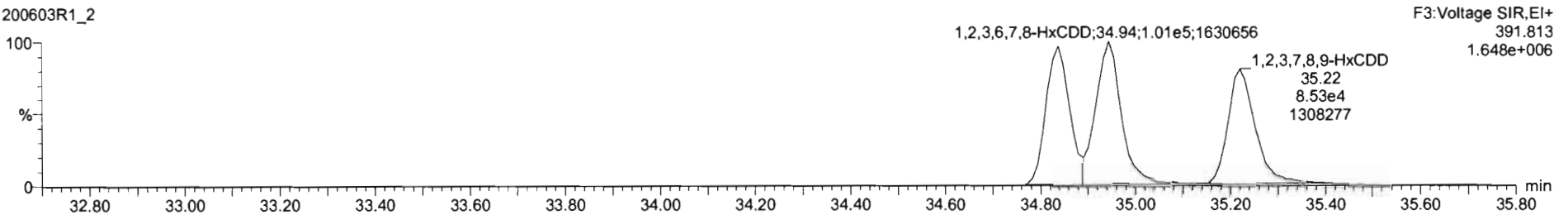
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1,2,3,4,7,8-HxCDD

200603R1_2

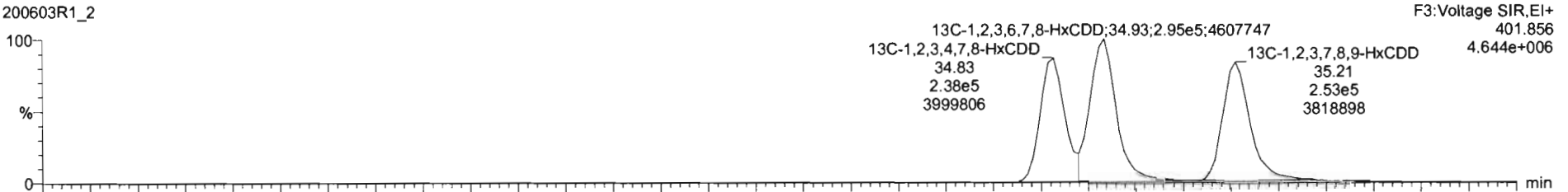


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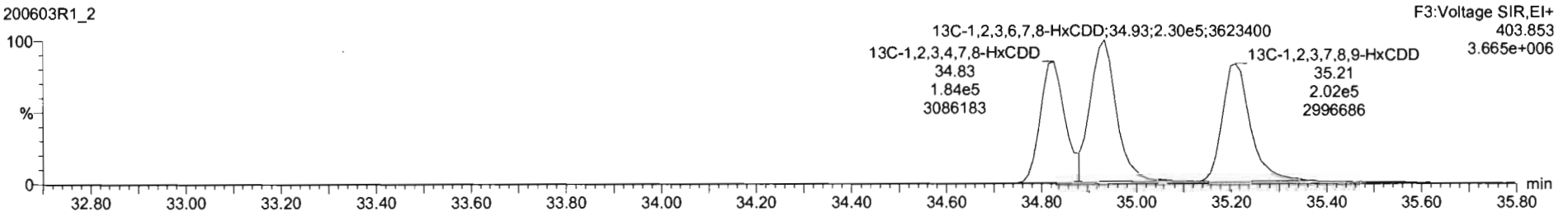


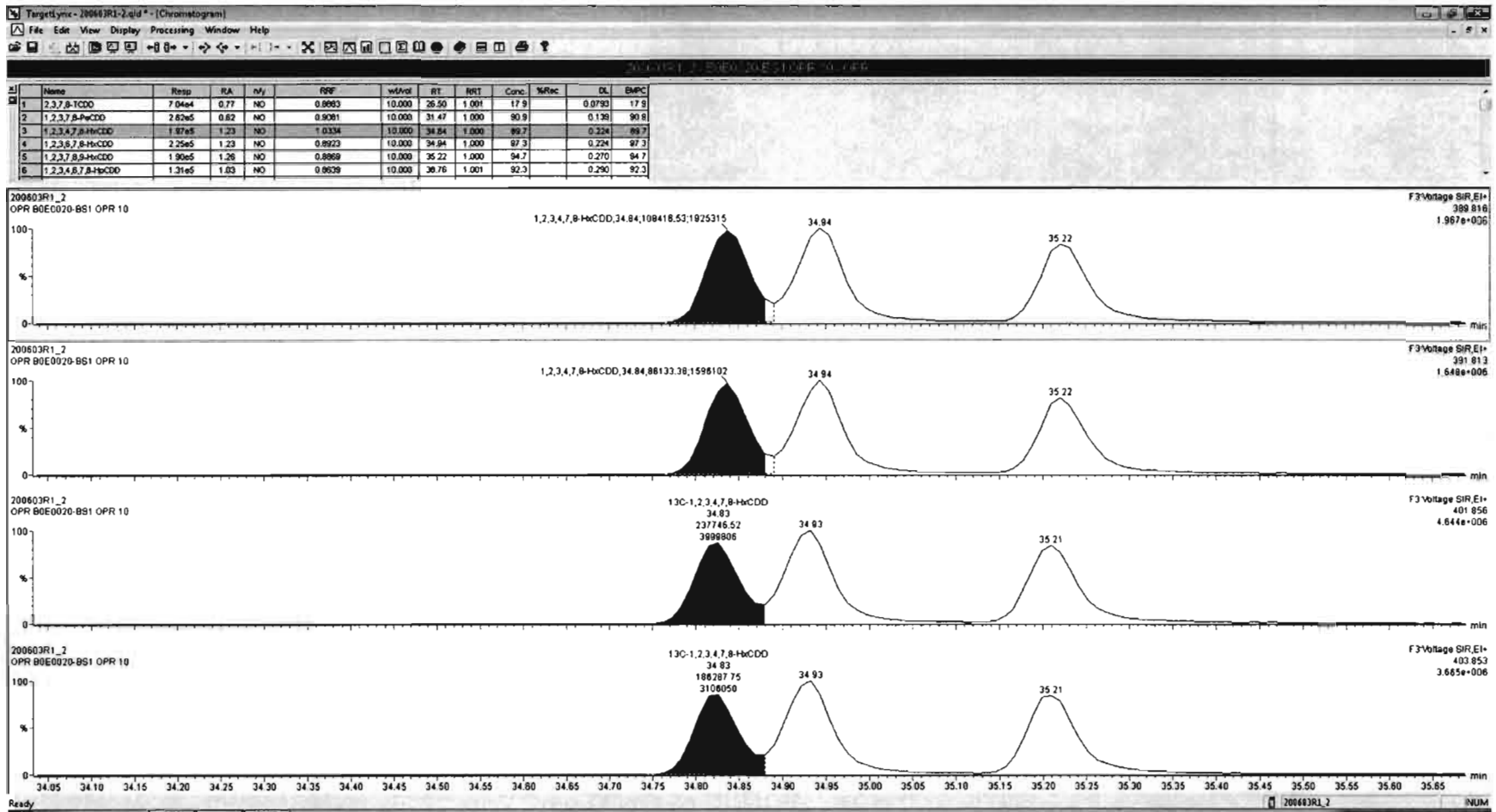
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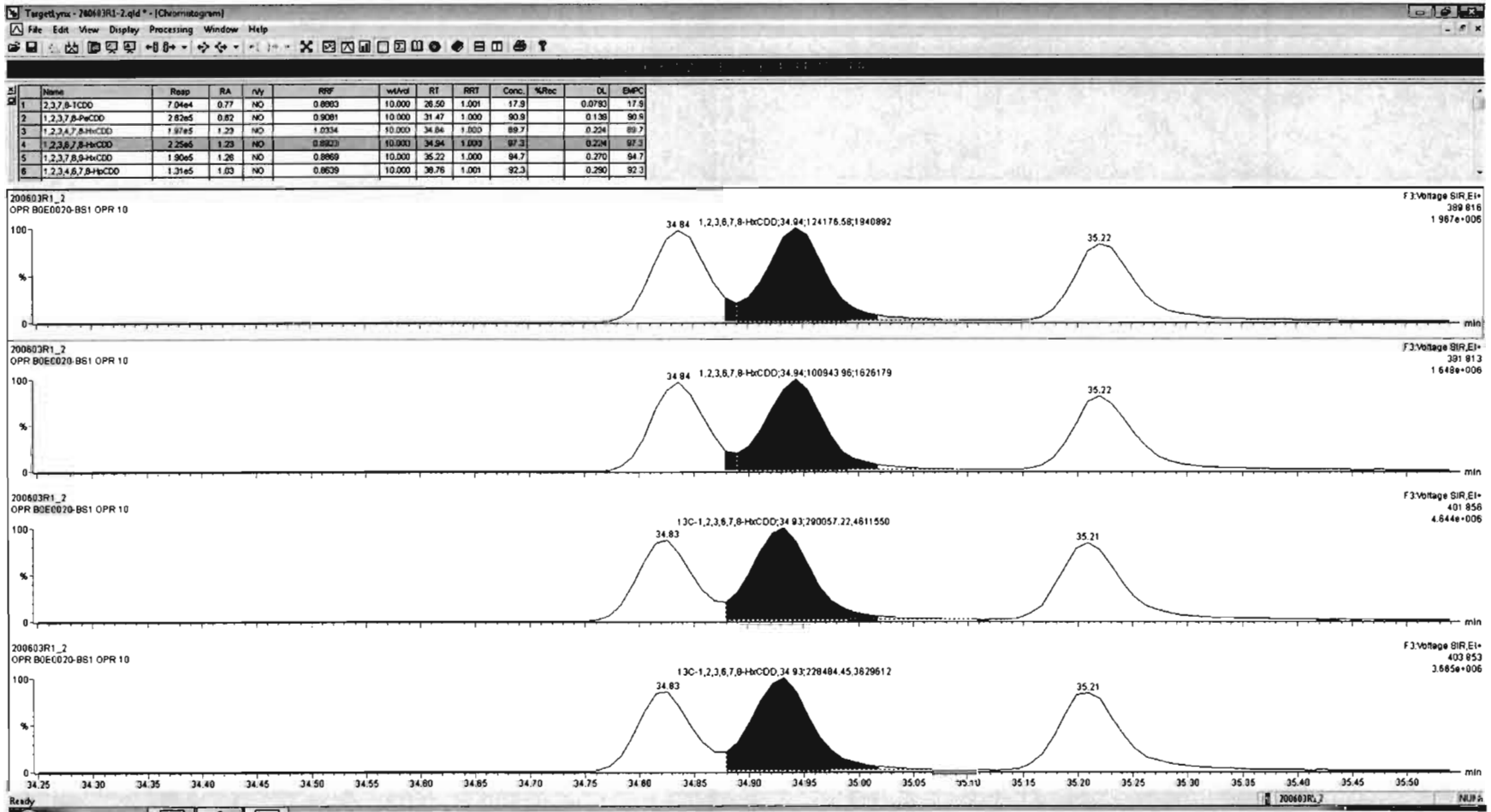
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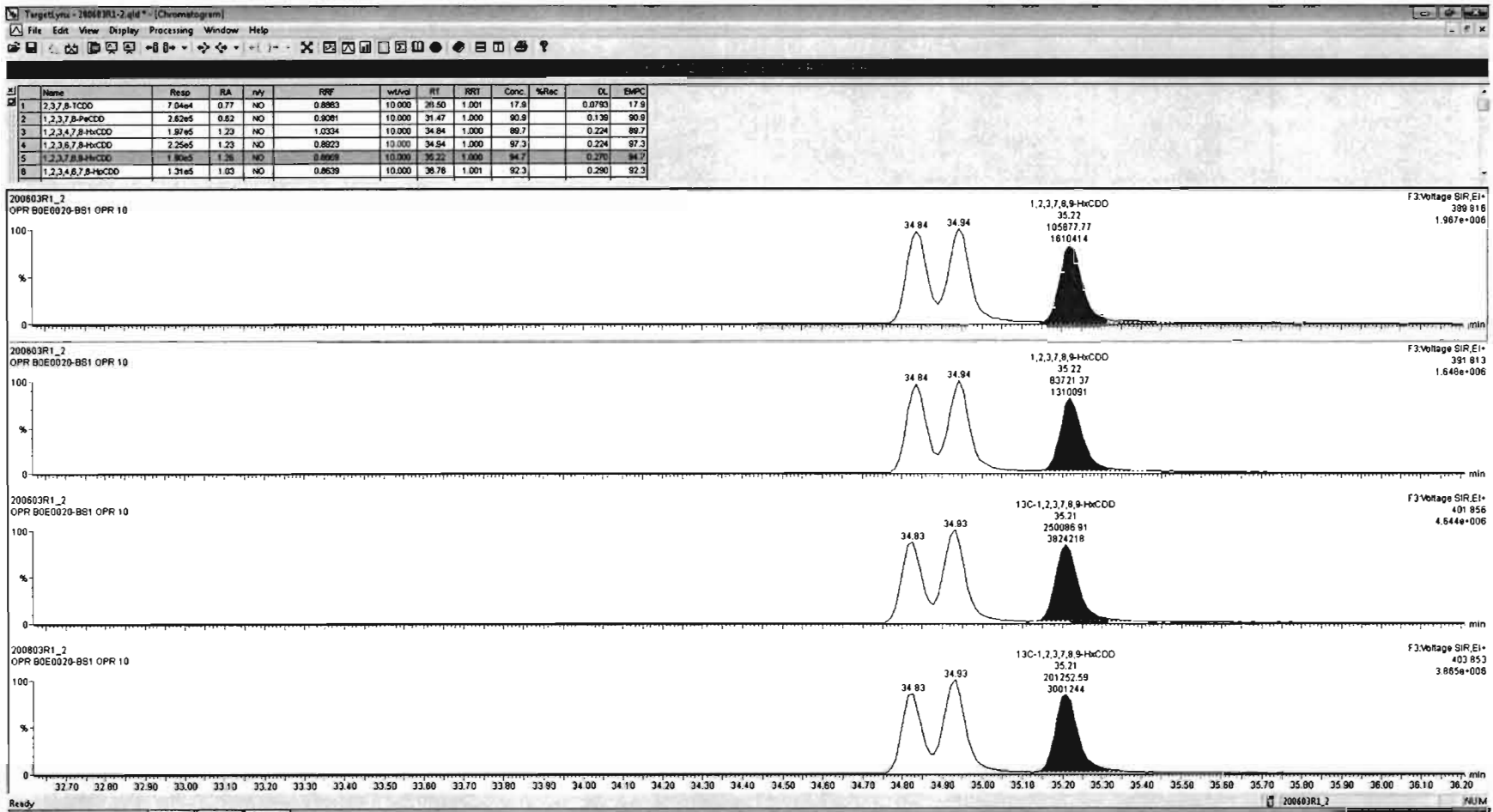


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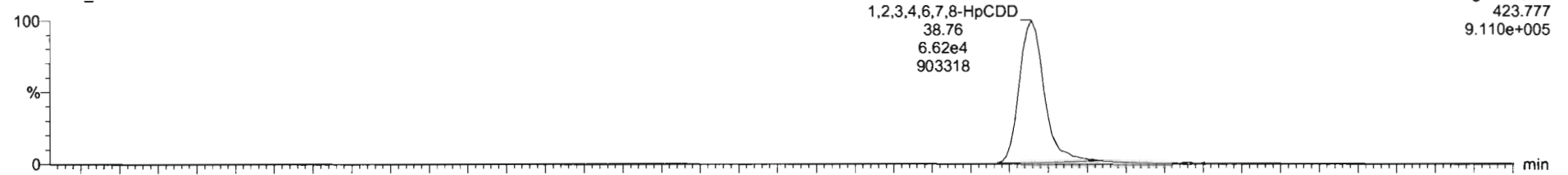
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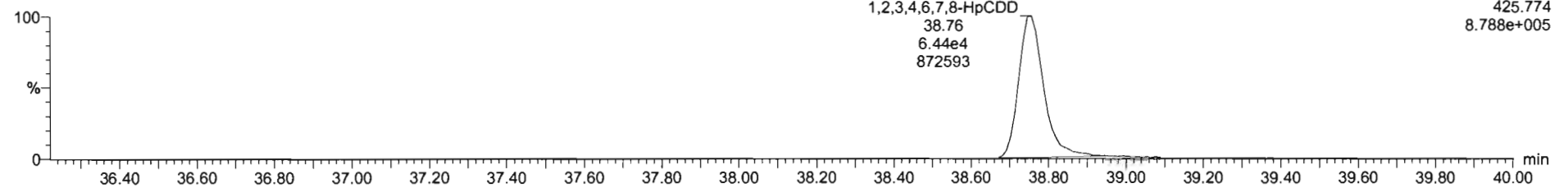
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1,2,3,4,6,7,8-HpCDD

200603R1_2

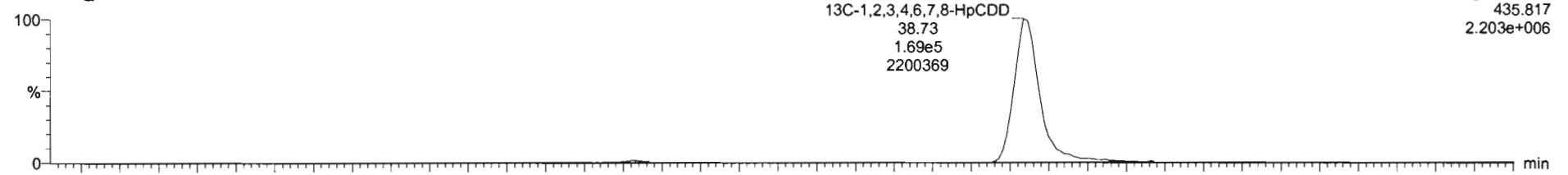


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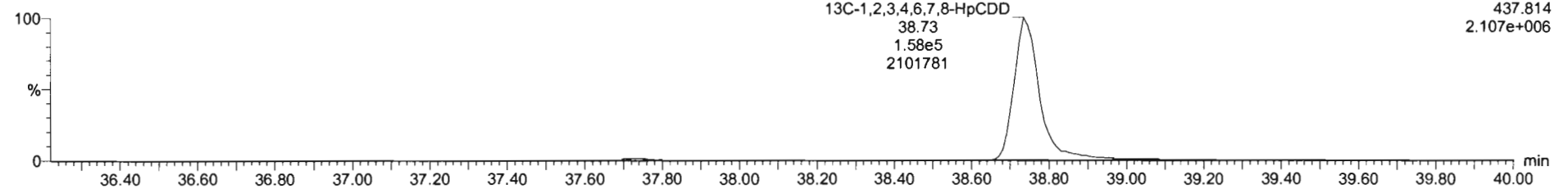


13C-1,2,3,4,6,7,8-HpCDD

200603R1_2



200603R1_2



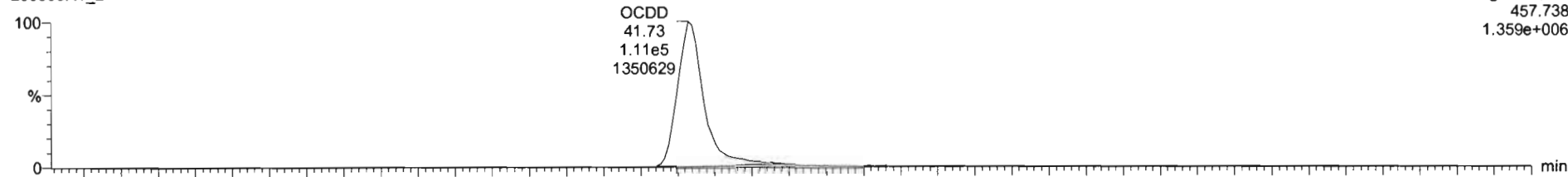
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

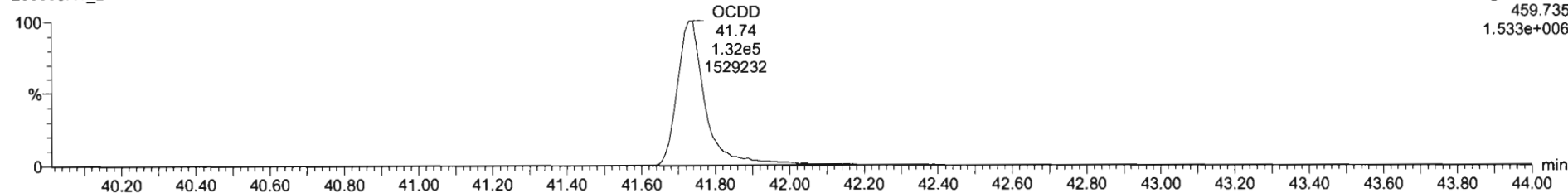
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OCDD

200603R1_2

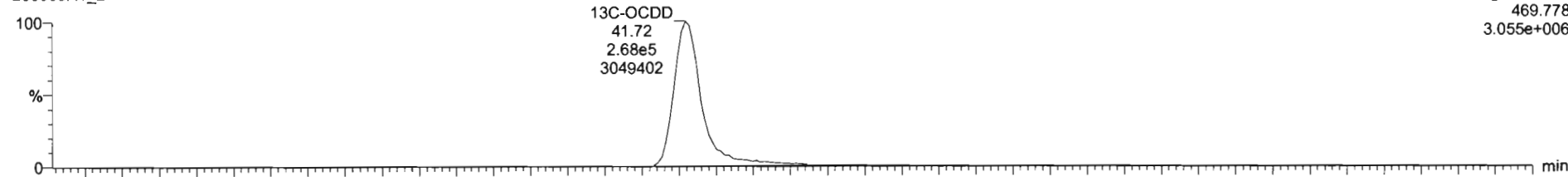


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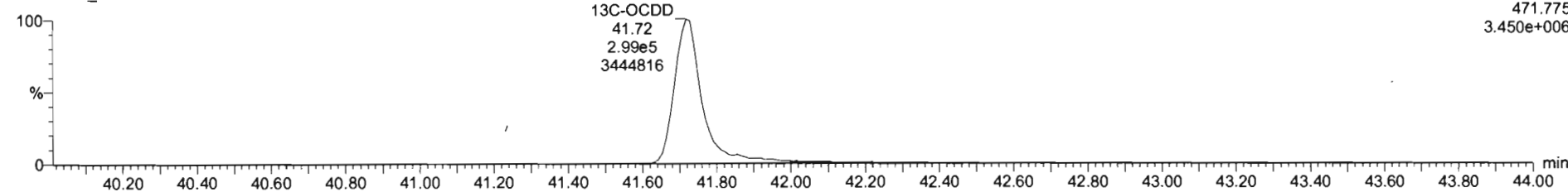


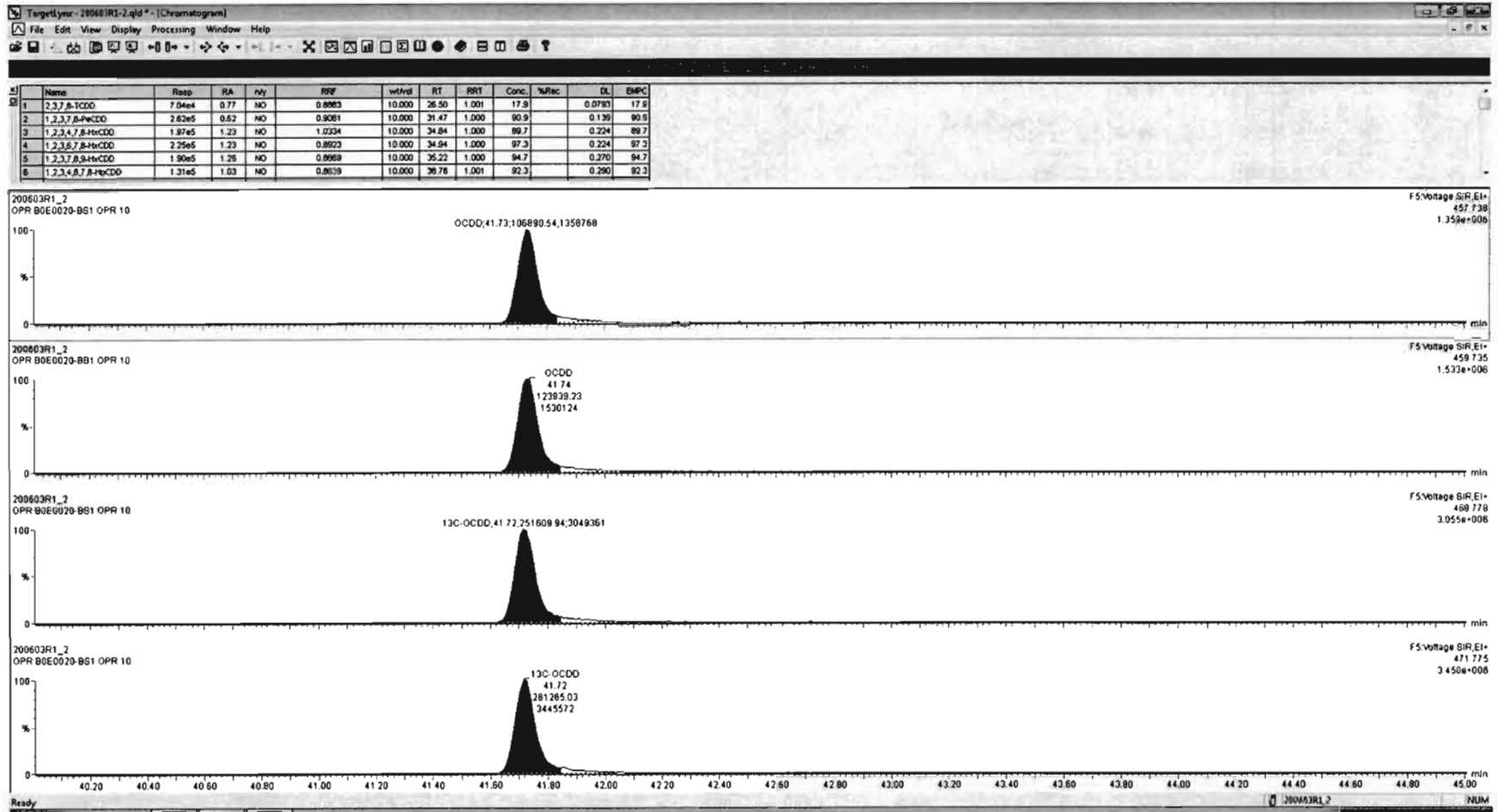
13C-OCDD

200603R1_2



200603R1_2





Dataset: Untitled

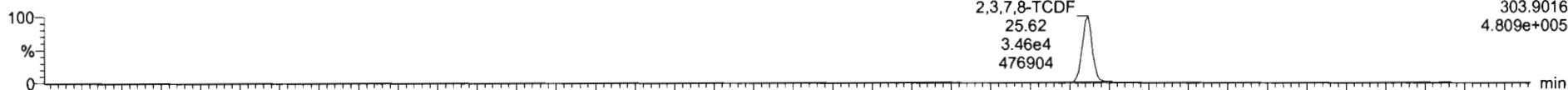
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

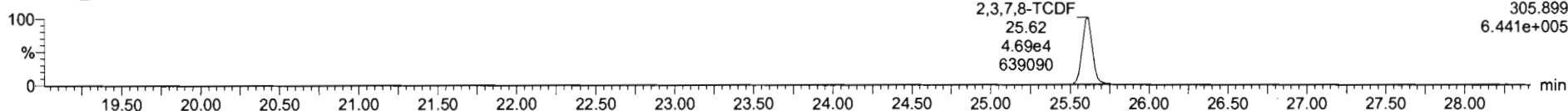
Name: 200603R1_2, Date: 03-Jun-2020, Time: 08:52:45, ID: B0E0020-BS1 OPR 10, Description: OPR

2,3,7,8-TCDF

200603R1_2

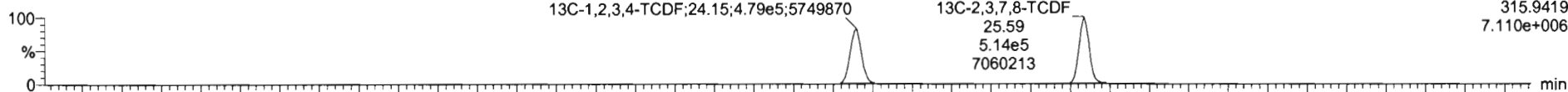


200603R1_2

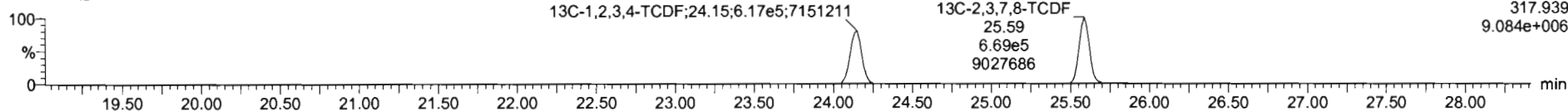


13C-2,3,7,8-TCDF

200603R1_2

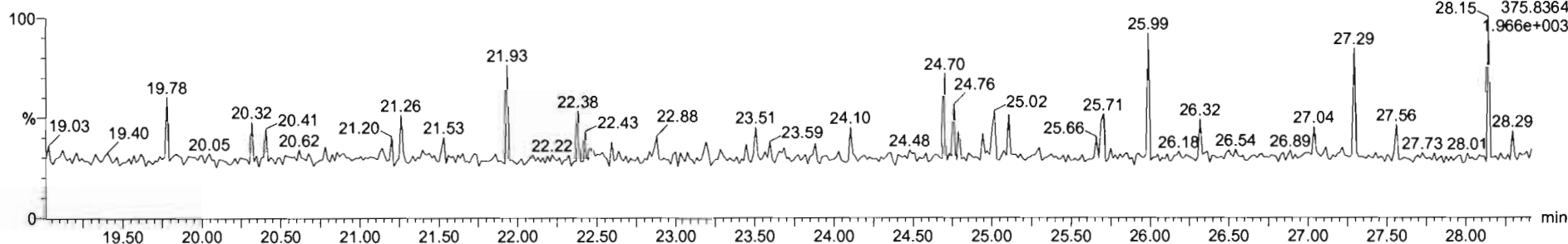


200603R1_2



DPE1

200603R1_2



Dataset: Untitled

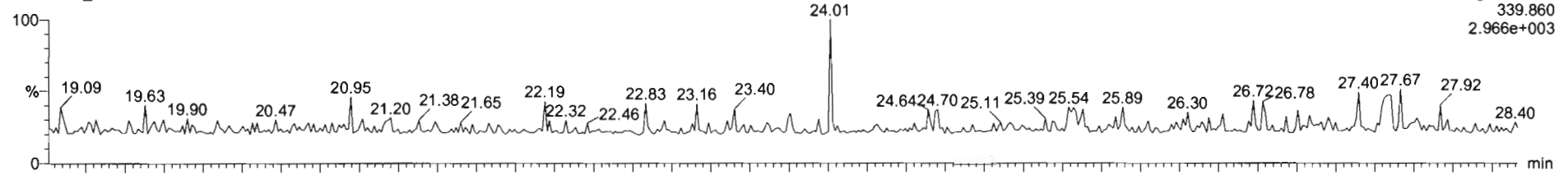
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

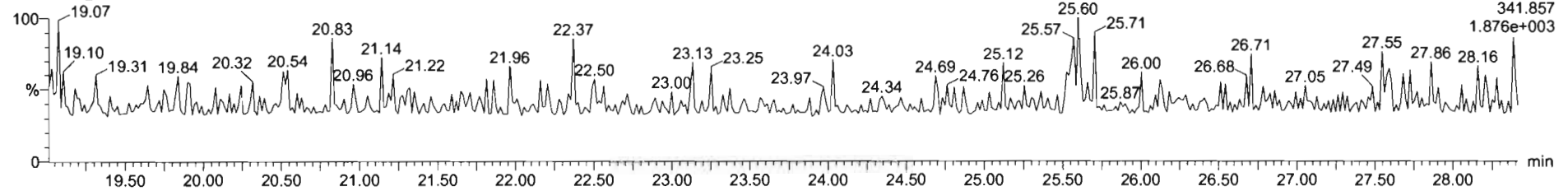
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1st Func. Penta-Furans

200603R1_2

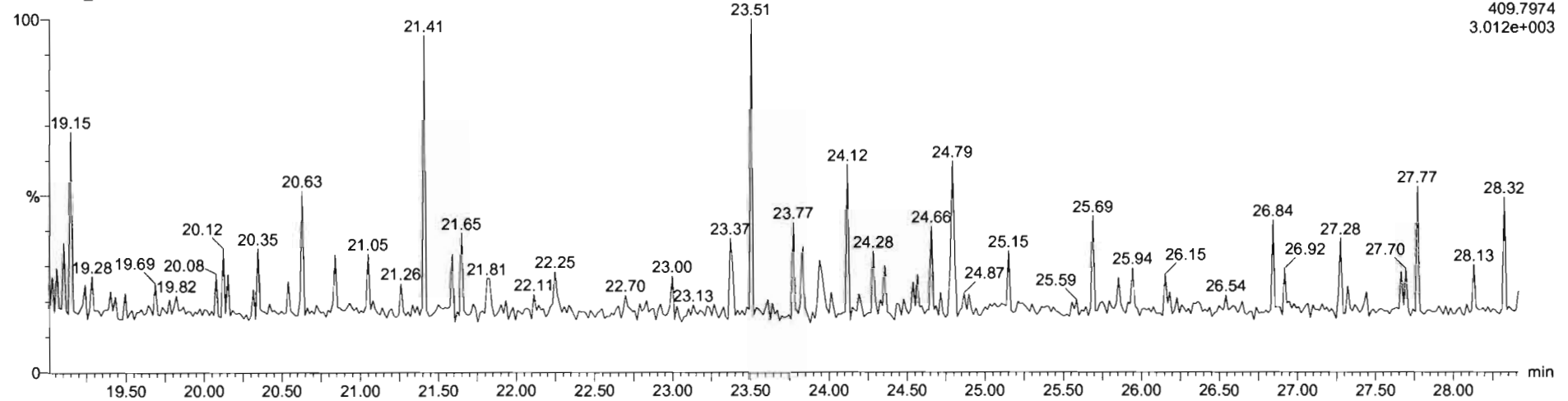


200603R1_2



DPE6

200603R1_2



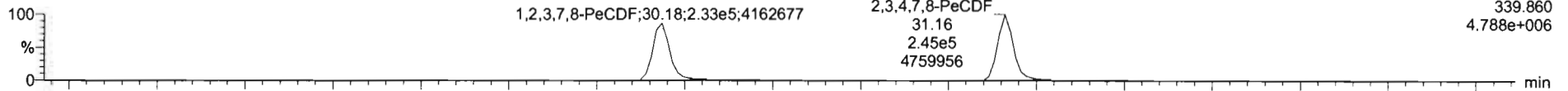
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

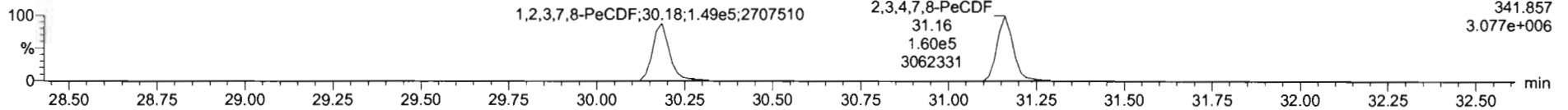
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1,2,3,7,8-PeCDF

200603R1_2

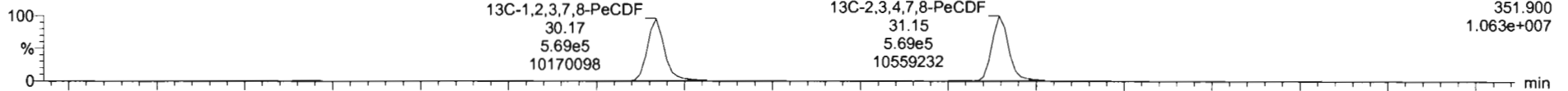


200603R1_2

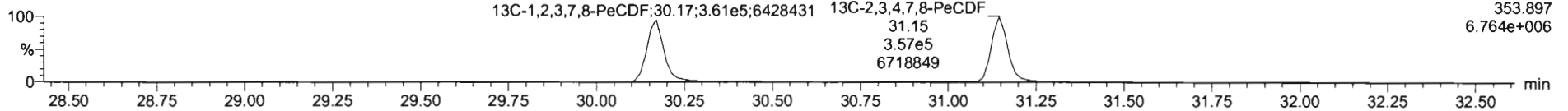


13C-1,2,3,7,8-PeCDF

200603R1_2

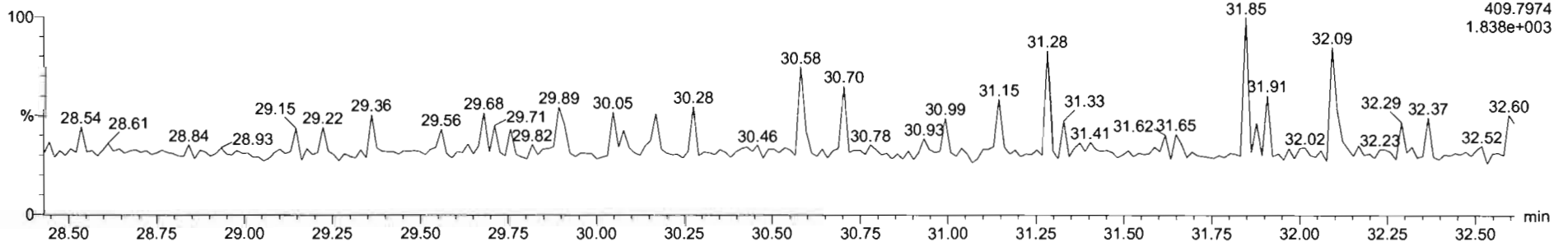


200603R1_2



DPE2

200603R1_2



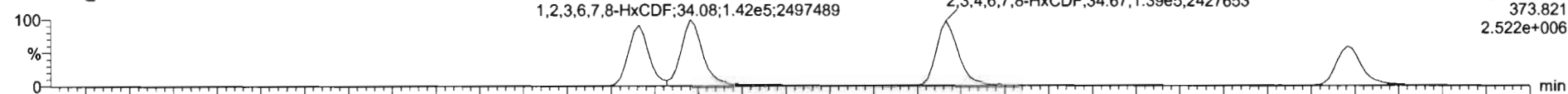
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

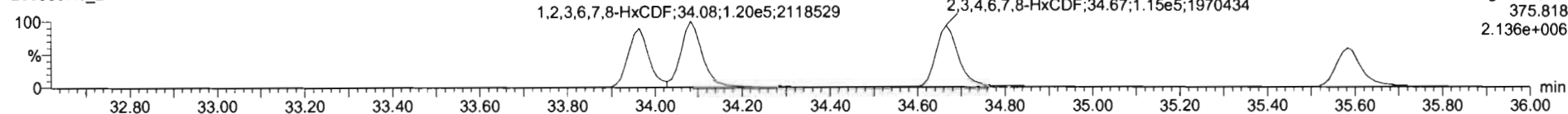
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1,2,3,4,7,8-HxCDF

200603R1_2

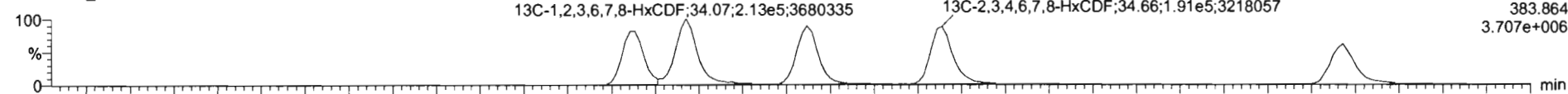


200603R1_2

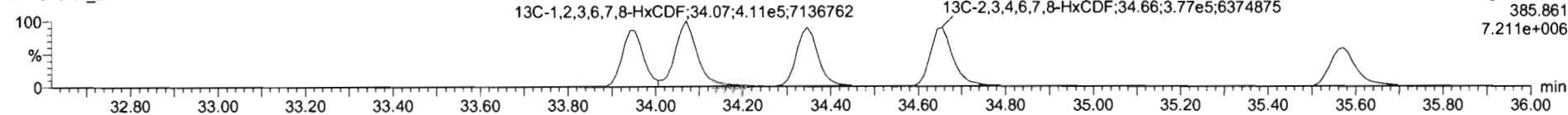


13C-1,2,3,4,7,8-HxCDF

200603R1_2

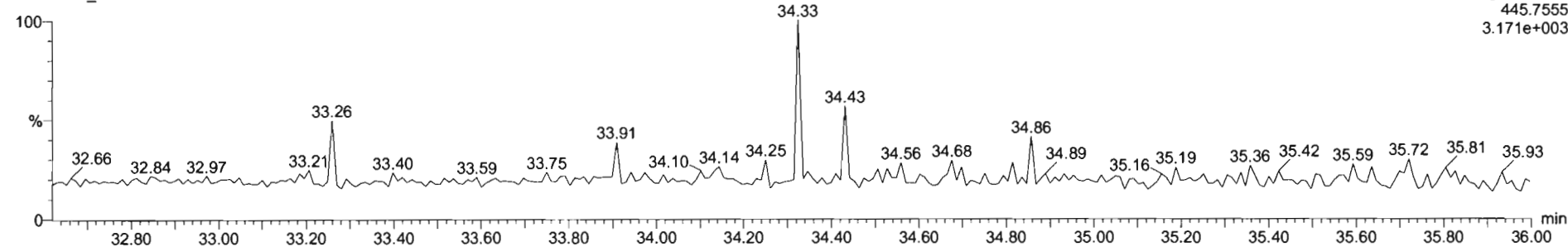


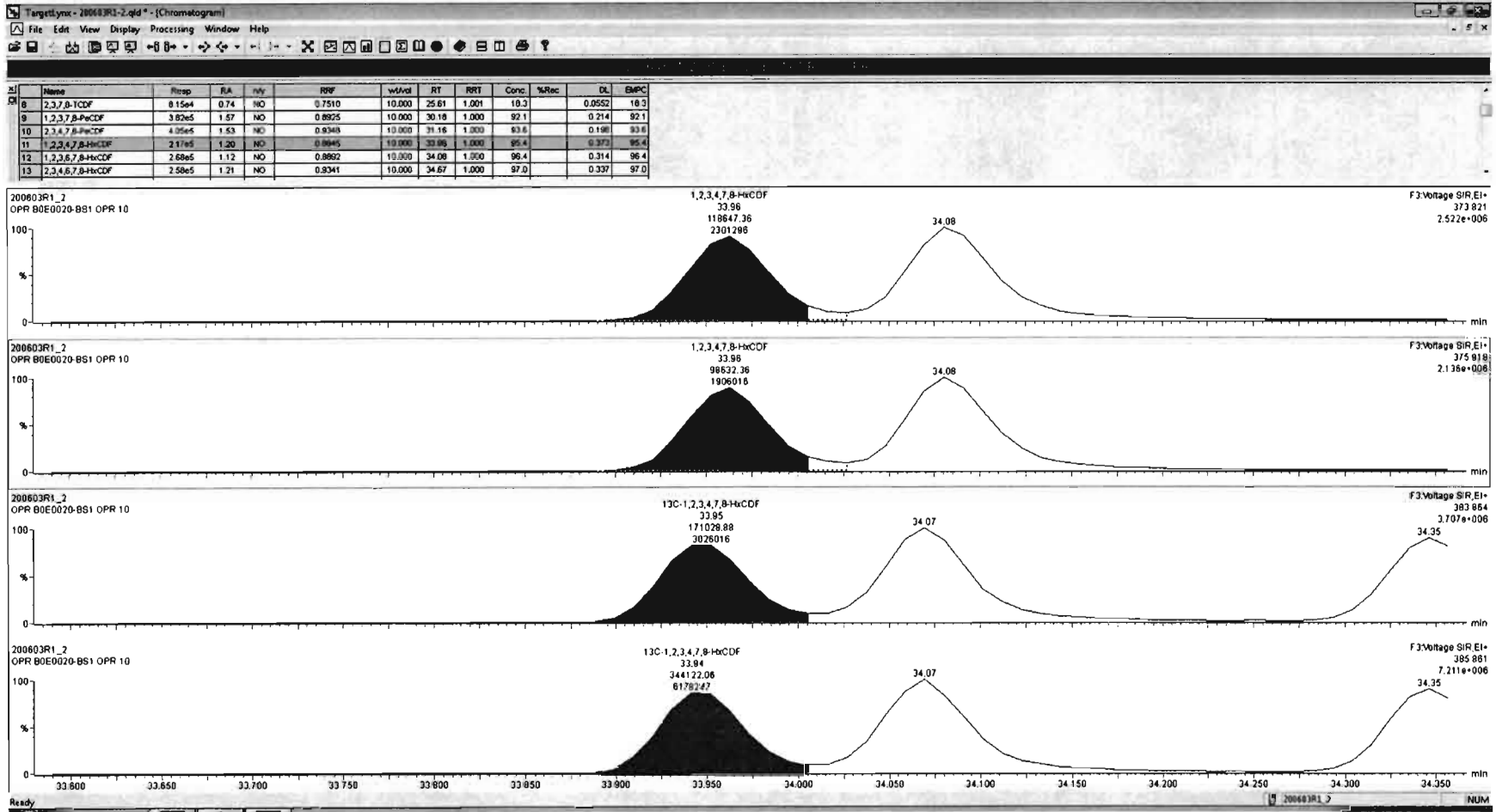
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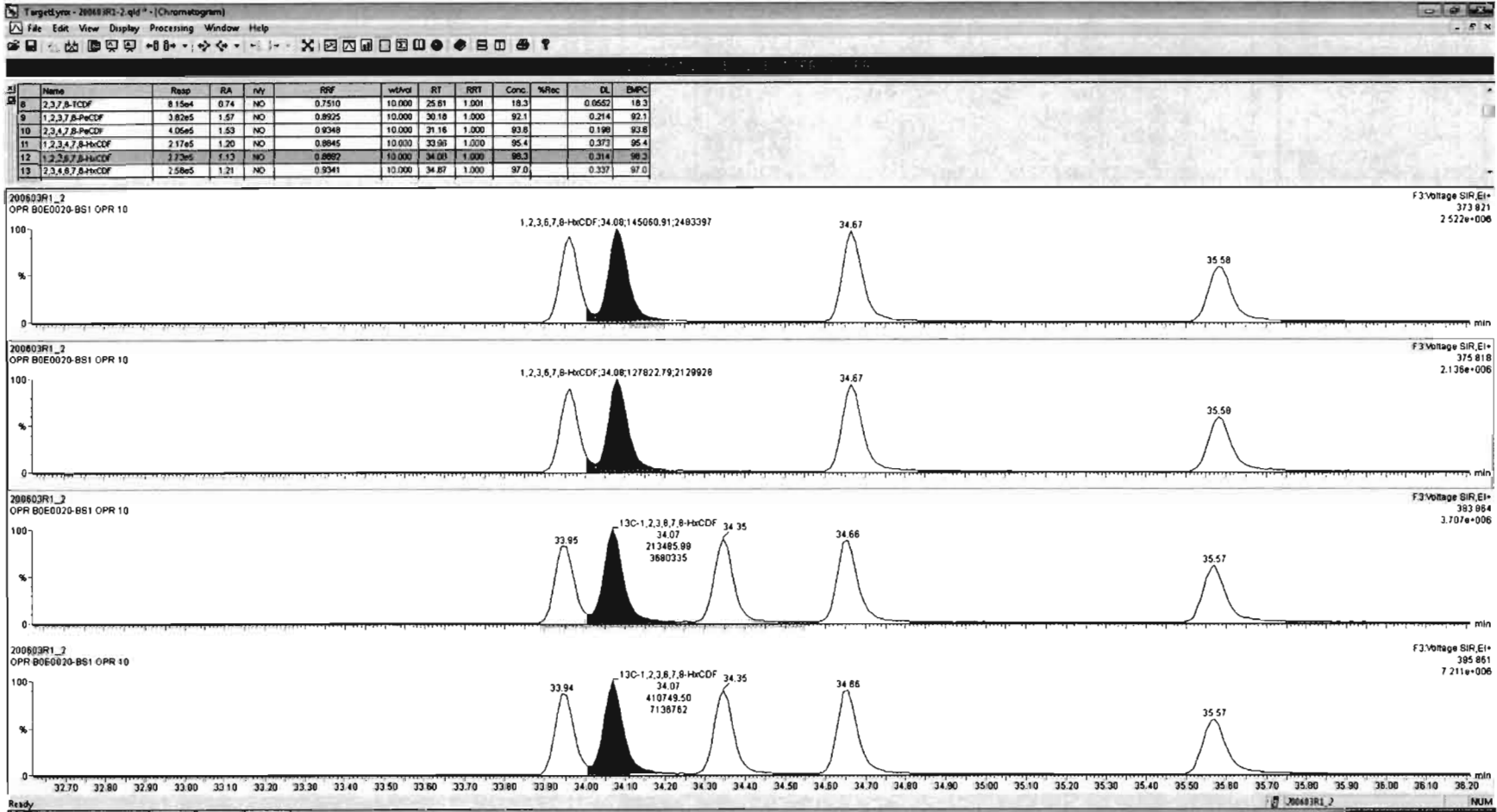


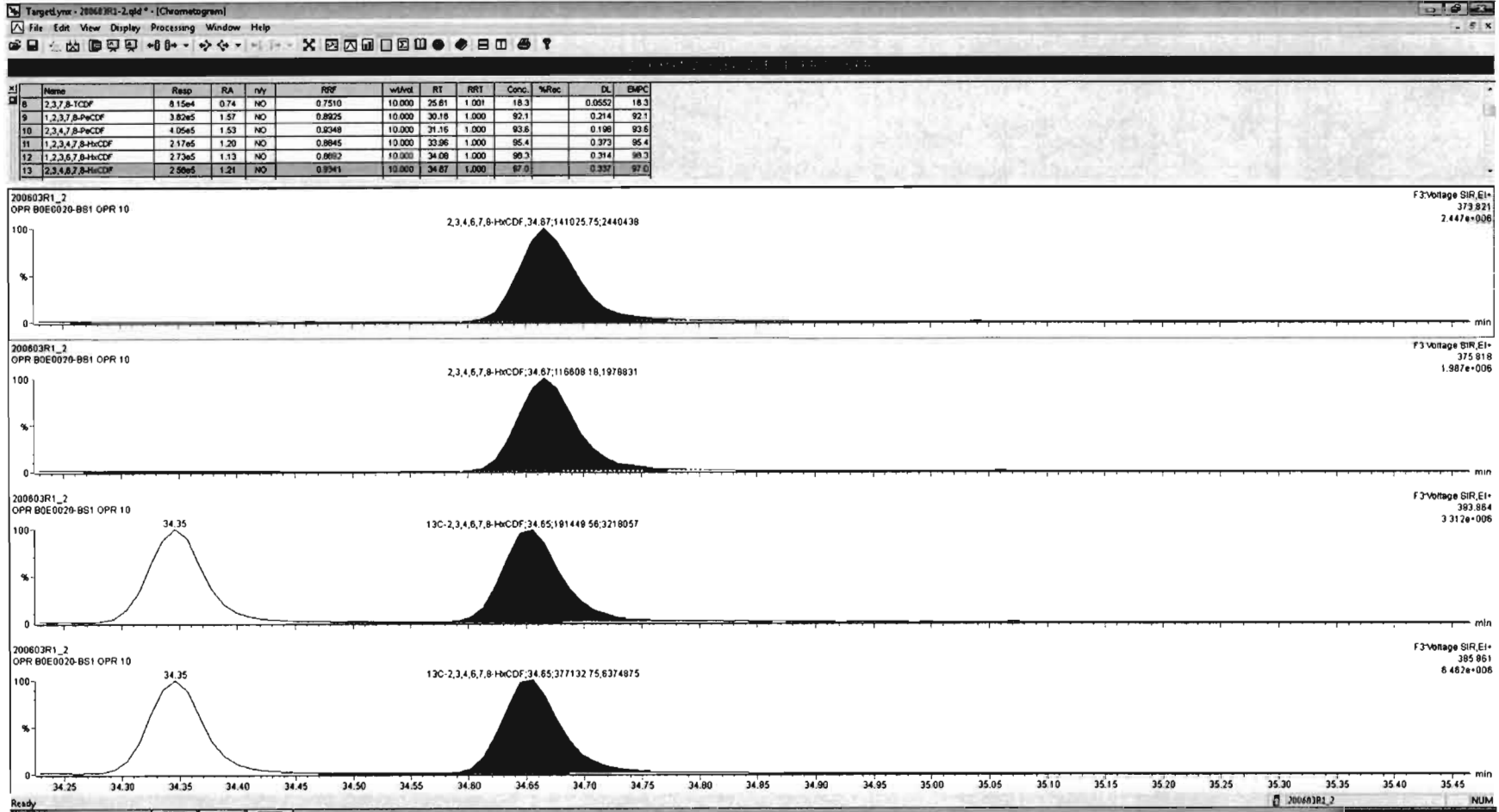
DPE3

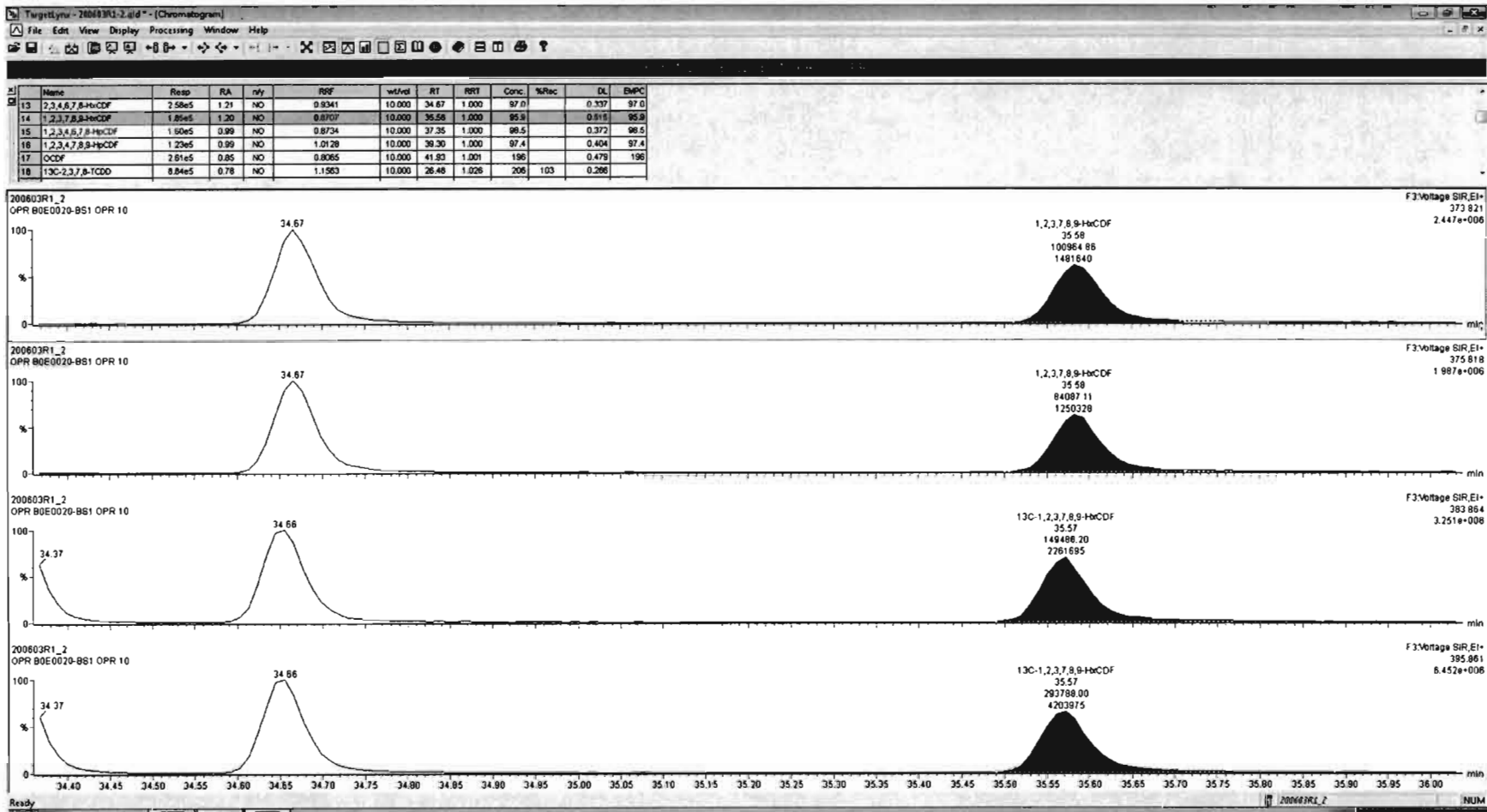
200603R1_2











Dataset: Untitled

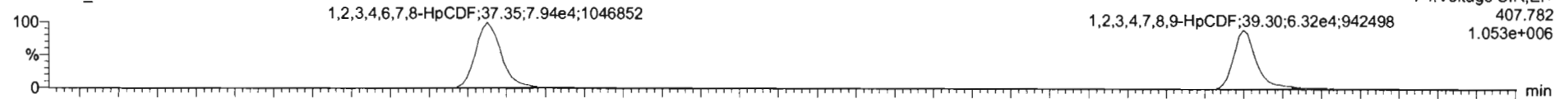
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

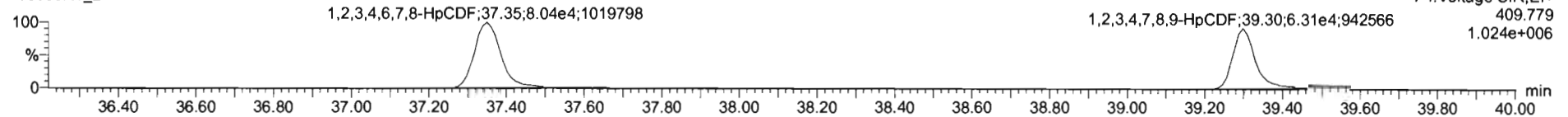
Name: 200603R1_2, Date: 03-Jun-2020, Time: 08:52:45, ID: B0E0020-BS1 OPR 10, Description: OPR

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

200603R1_2

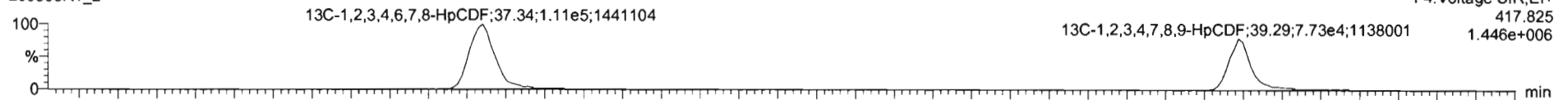


200603R1_2

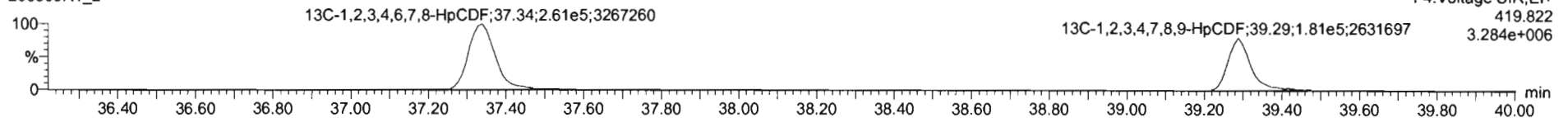


13C-1,2,3,4,6,7,8-HpCDF

200603R1_2

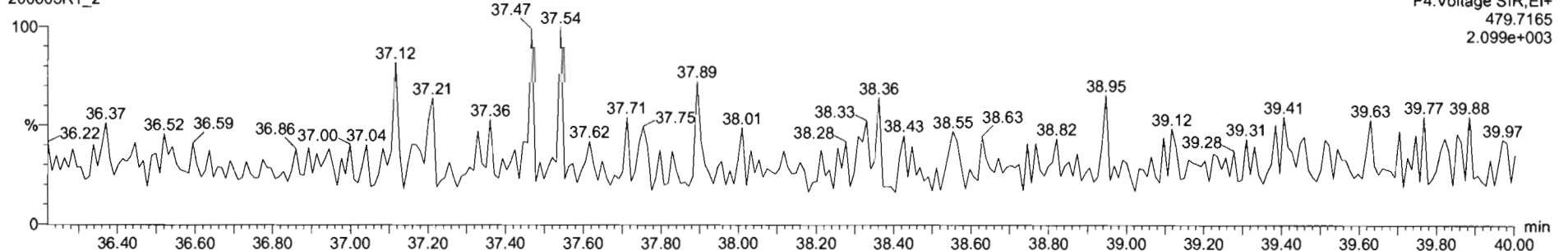


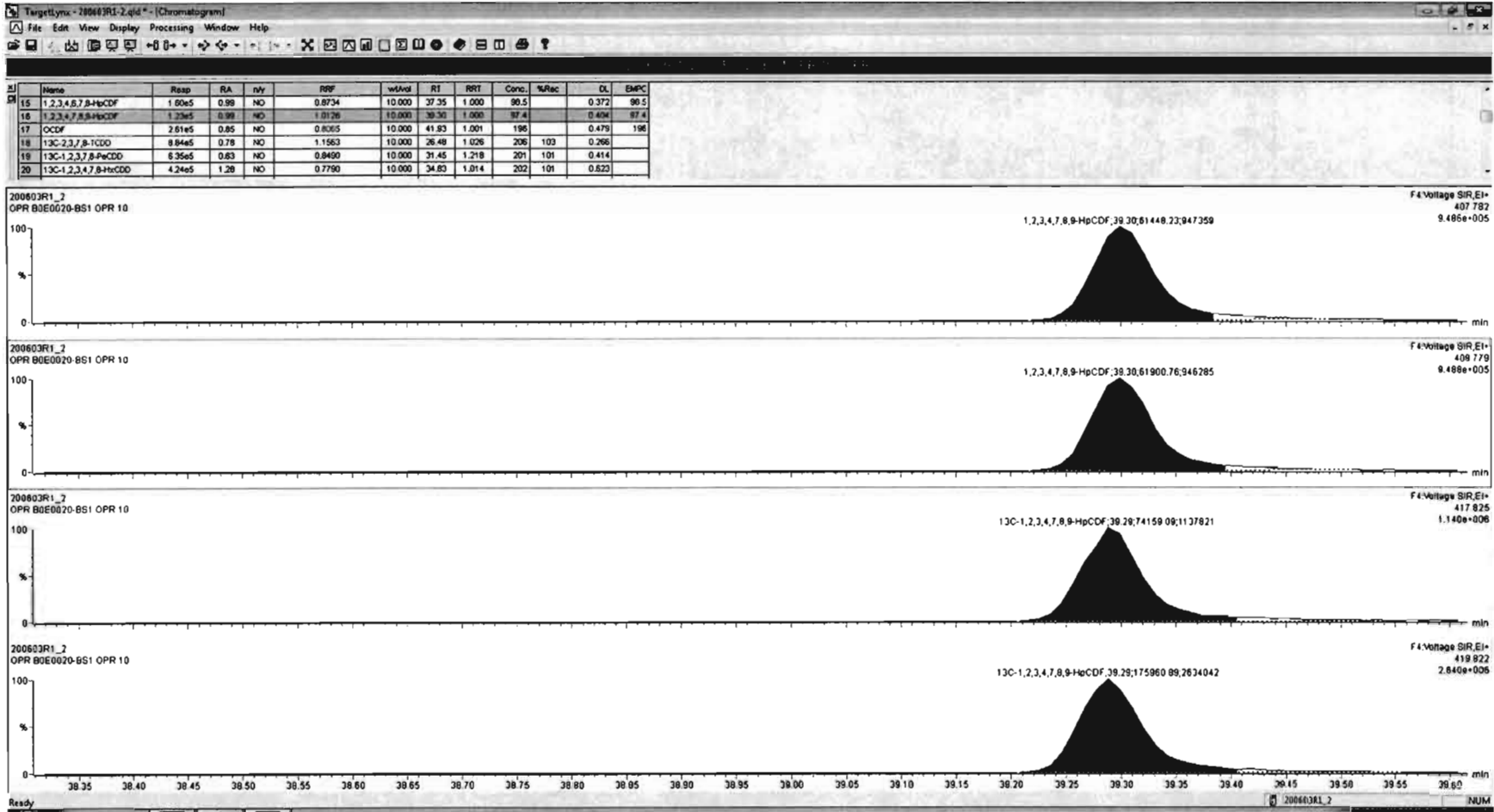
200603R1_2



DPE4

200603R1_2





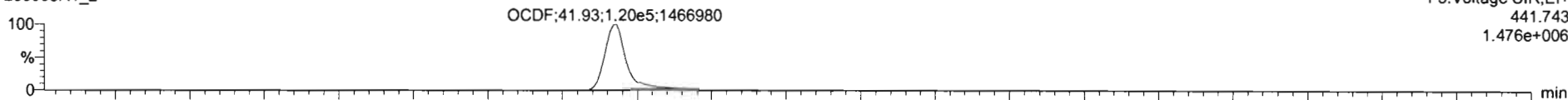
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

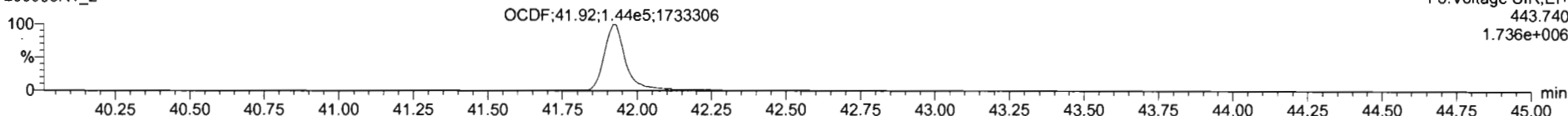
Name: 200603R1_2, Date: 03-Jun-2020, Time: 08:52:45, ID: B0E0020-BS1 OPR 10, Description: OPR

OCDF

200603R1_2

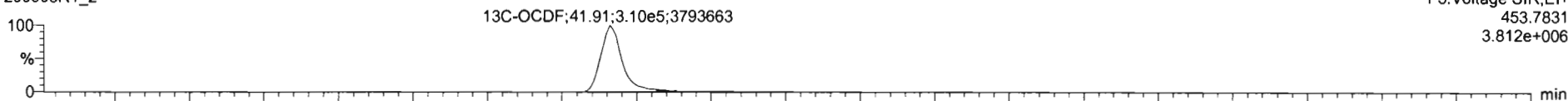


200603R1_2

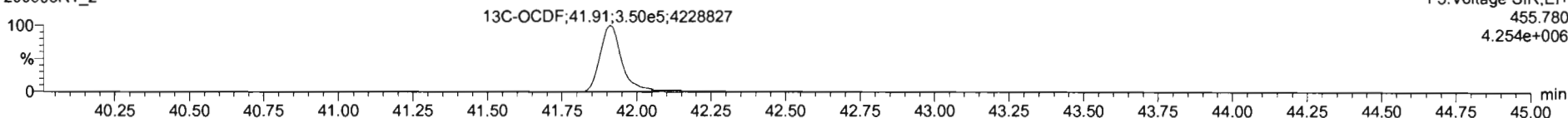


13C-OCDF

200603R1_2

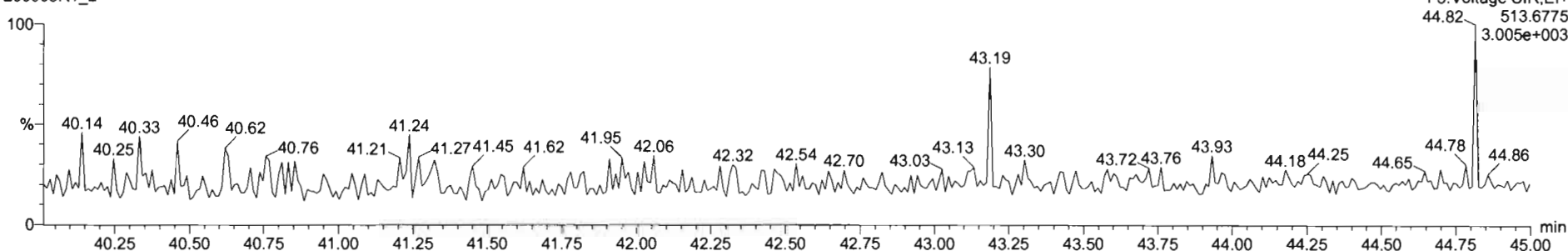


200603R1_2



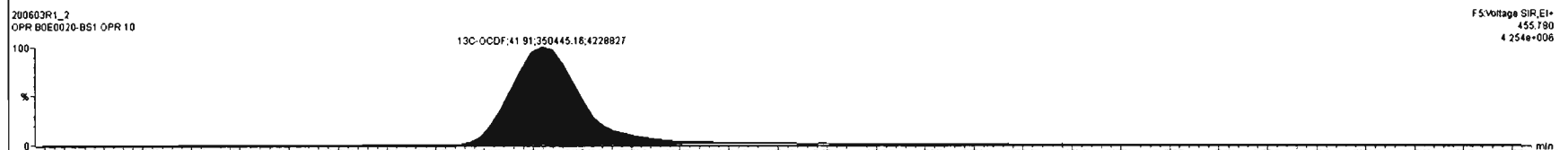
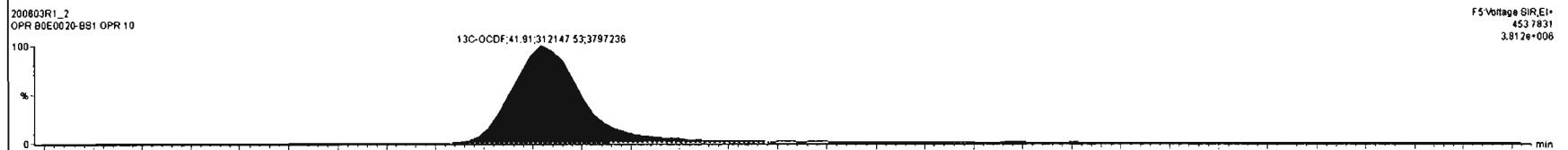
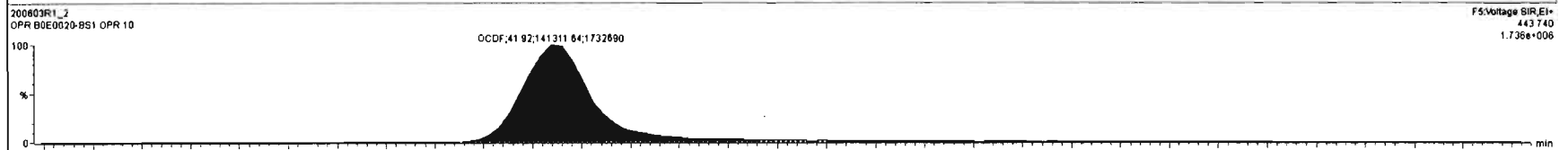
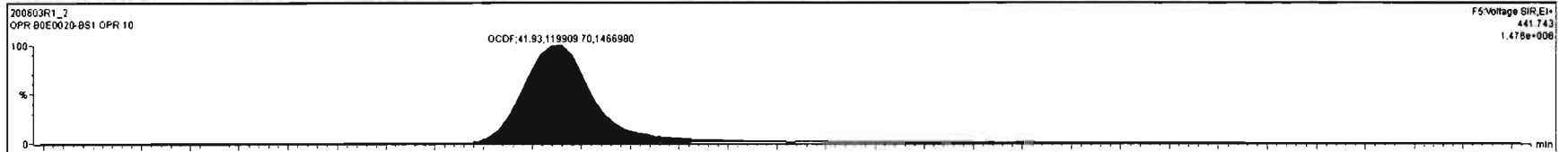
DPE5

200603R1_2



TargetLynx - 200603R1-2.sld* - [Chromatogram]
 File Edit View Display Processing Window Help

#	Name	Resp	RA	nly	RRF	wtAval	RT	RRT	Conc	%Rec	DL	EMPC
13	2,3,4,6,7,8-HxCDF	2.58e5	1.21	NO	0.9341	10.000	34.67	1.000	97.0	0.337	97.0	
14	1,2,3,7,8,9-HxCDF	1.85e5	1.20	NO	0.8707	10.000	35.58	1.000	95.9	0.515	95.9	
15	1,2,3,4,6,7,8-HpCDF	1.60e5	0.99	NO	0.8734	10.000	37.35	1.000	98.5	0.372	98.5	
16	1,2,3,4,7,8-HpCDF	1.23e5	0.99	NO	1.0128	10.000	36.30	1.000	97.4	0.404	97.4	
17	OCDF	2.61e5	0.85	NO	0.8065	10.000	41.83	1.001	196	0.479	196	
18	13C-2,3,7,8-TCDF	8.84e5	0.78	NO	1.1563	10.000	28.48	1.028	206	1.03	0.288	



Ready 200603R1_2 NUM

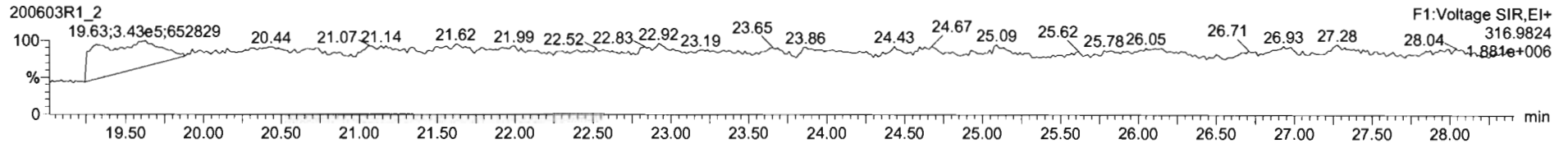
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

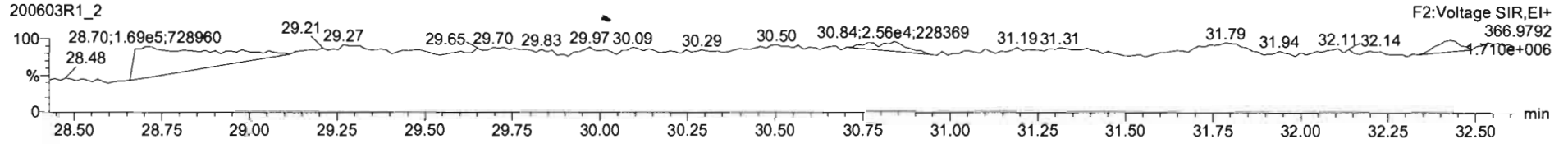
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_2, Date: 03-Jun-2020, Time: 08:52:45, ID: B0E0020-BS1 OPR 10, Description: OPR

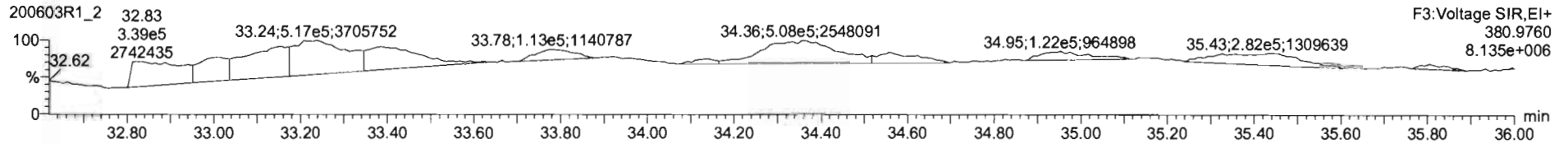
PFK1



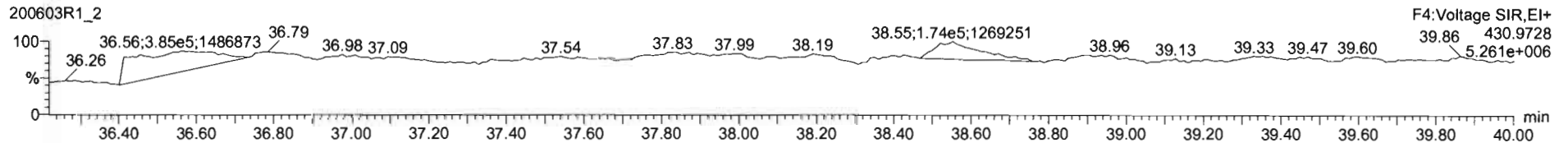
PFK2



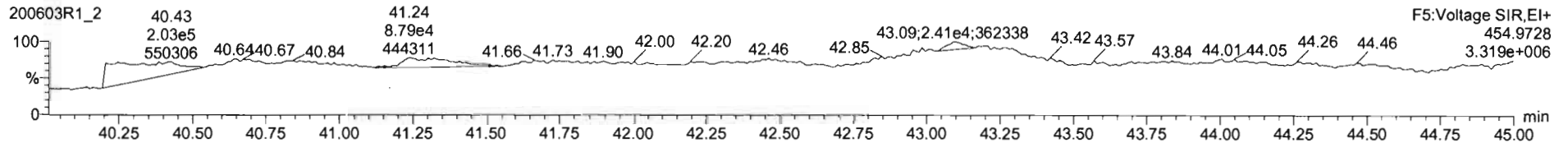
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-6.qld

Last Altered: Friday, June 19, 2020 07:37:01 Pacific Daylight Time
Printed: Friday, June 19, 2020 08:30:37 Pacific Daylight Time

GPE 06/19/2020

C7 06/19/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-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	0.888	10.000	26.485		1.001				0.0757	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.000	31.457		1.001				0.0665	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.000	34.825		1.000				0.0792	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.000	34.921		1.000				0.0754	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.000	35.209		1.000				0.0975	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	10.000	38.756		1.000				0.130	
7	7 OCDD			NO	0.914	10.000	41.737		1.000				0.162	
8	8 2,3,7,8-TCDF			NO	0.751	10.000	25.596		1.001				0.0415	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.000	30.175		1.001				0.0557	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.000	31.161		1.001				0.0532	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.000	33.941		1.000				0.0570	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.000	34.069		1.000				0.0492	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.000	34.679		1.001				0.0581	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.000	35.571		1.000				0.0970	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.000	37.376		1.001				0.0887	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	39.288		1.000				0.102	
17	17 OCDF			NO	0.806	10.000	41.929		1.000				0.188	
18	18 13C-2,3,7,8-TCDD	8.43e5	0.76	NO	1.16	10.000	26.476	26.45	1.026	1.026	185.84	92.9	0.264	
19	19 13C-1,2,3,7,8-PeCDD	5.95e5	0.61	NO	0.849	10.000	31.656	31.43	1.227	1.219	178.60	89.3	0.371	
20	20 13C-1,2,3,4,7,8-HxCDD	3.72e5	1.30	NO	0.779	10.000	34.819	34.81	1.014	1.014	134.74	67.4	0.698	
21	21 13C-1,2,3,6,7,8-HxCDD	5.95e5	1.28	NO	1.02	10.000	34.933	34.92	1.017	1.017	164.95	82.5	0.534	
22	22 13C-1,2,3,7,8,9-HxCDD	5.06e5	1.31	NO	0.903	10.000	35.204	35.20	1.025	1.025	158.16	79.1	0.602	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.17e5	1.09	NO	0.689	10.000	38.727	38.74	1.128	1.128	129.91	65.0	0.560	
24	24 13C-OCDD	4.74e5	0.88	NO	0.652	10.000	41.748	41.74	1.216	1.216	204.86	51.2	0.880	
25	25 13C-2,3,7,8-TCDF	1.11e6	0.78	NO	1.06	10.000	25.519	25.57	0.989	0.991	165.80	82.9	0.353	
26	26 13C-1,2,3,7,8-PeCDF	9.11e5	1.56	NO	0.838	10.000	30.041	30.15	1.165	1.169	171.97	86.0	0.614	
27	27 13C-2,3,4,7,8-PeCDF	8.90e5	1.59	NO	0.817	10.000	30.993	31.13	1.202	1.207	172.49	86.2	0.630	
28	28 13C-1,2,3,4,7,8-HxCDF	5.20e5	0.50	NO	1.01	10.000	33.951	33.94	0.989	0.988	145.66	72.8	0.928	
29	29 13C-1,2,3,6,7,8-HxCDF	6.98e5	0.50	NO	1.17	10.000	34.074	34.06	0.992	0.992	168.78	84.4	0.801	
30	30 13C-2,3,4,6,7,8-HxCDF	5.60e5	0.50	NO	1.02	10.000	34.648	34.64	1.009	1.009	154.70	77.4	0.915	
31	31 13C-1,2,3,7,8,9-HxCDF	4.49e5	0.50	NO	0.860	10.000	35.547	35.57	1.035	1.036	147.18	73.6	1.09	

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-6.qld

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Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-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	3.61e5	0.40	NO	0.774	10.000	37.295	37.34	1.086	1.087	131.55	65.8	0.917	
33	13C-1,2,3,4,7,8,9-HpCDF	2.34e5	0.41	NO	0.521	10.000	39.324	39.29	1.145	1.144	126.88	63.4	1.36	
34	13C-OCDF	5.61e5	0.81	NO	0.746	10.000	41.920	41.93	1.221	1.221	212.12	53.0	0.665	
35	37Cl-2,3,7,8-TCDD	3.49e5			1.04	10.000	26.507	26.48	1.028	1.027	85.867	107	0.101	
36	13C-1,2,3,4-TCDD	7.85e5	0.79	NO	1.00	10.000	25.890	25.80	1.000	1.000	200.00	100	0.305	
37	13C-1,2,3,4-TCDF	1.26e6	0.79	NO	1.00	10.000	24.360	24.12	1.000	1.000	200.00	100	0.374	
38	13C-1,2,3,4,6,9-HxCDF	7.09e5	0.49	NO	1.00	10.000	34.420	34.33	1.000	1.000	200.00	100	0.935	
39	Total Tetra-Dioxins				0.888	10.000	24.620		0.000				0.0409	
40	Total Penta-Dioxins				0.908	10.000	29.960		0.000				0.0317	
41	Total Hexa-Dioxins				0.892	10.000	33.635		0.000				0.0425	
42	Total Hepta-Dioxins				0.864	10.000	37.640		0.000				0.0784	
43	Total Tetra-Furans				0.751	10.000	23.610		0.000				0.0189	
44	1st Func. Penta-Furans				0.893	10.000	27.580		0.000				0.0111	
45	Total Penta-Furans				0.893	10.000	29.275		0.000				0.0191	
46	Total Hexa-Furans				0.934	10.000	33.555		0.000				0.0333	
47	Total Hepta-Furans				0.873	10.000	37.835		0.000				0.0510	

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-6.qld
Last Altered: Friday, June 19, 2020 07:37:01 Pacific Daylight Time
Printed: Friday, June 19, 2020 08:30:37 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-6.qld

Last Altered: Friday, June 19, 2020 07:37:01 Pacific Daylight Time

Printed: Friday, June 19, 2020 08:30:37 Pacific Daylight Time

Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

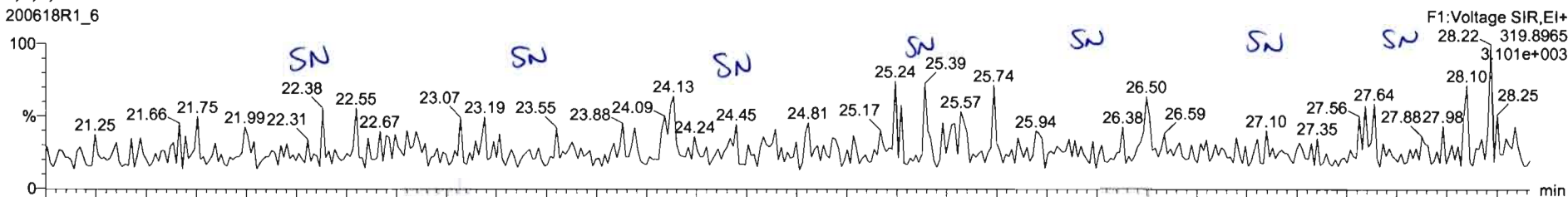
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

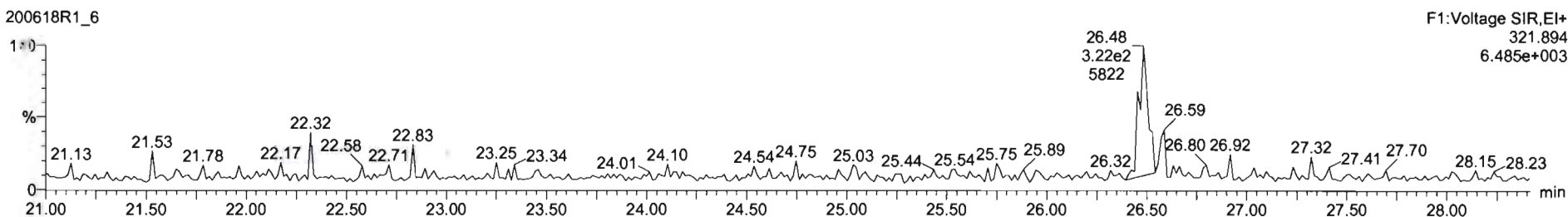
Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200618R1_6

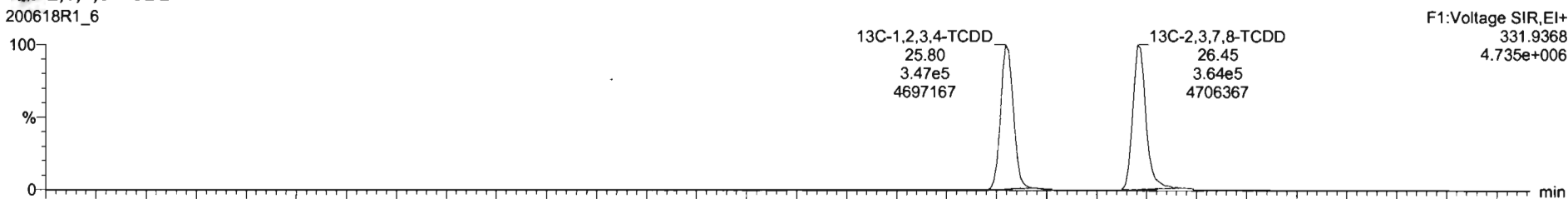


200618R1_6

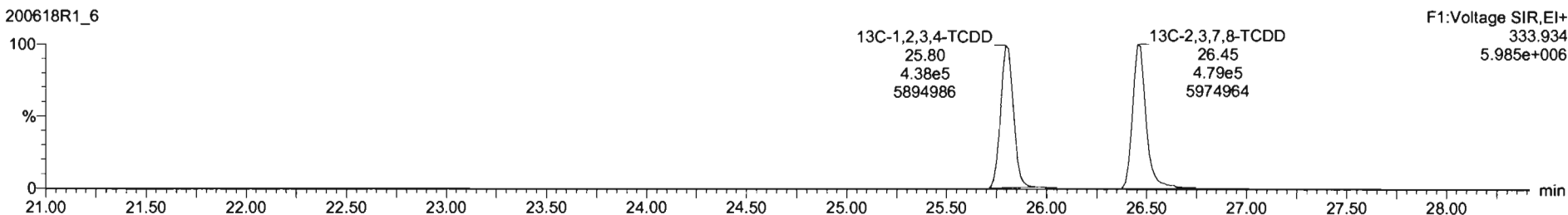


13C-2,3,7,8-TCDD

200618R1_6



200618R1_6



Dataset: Untitled

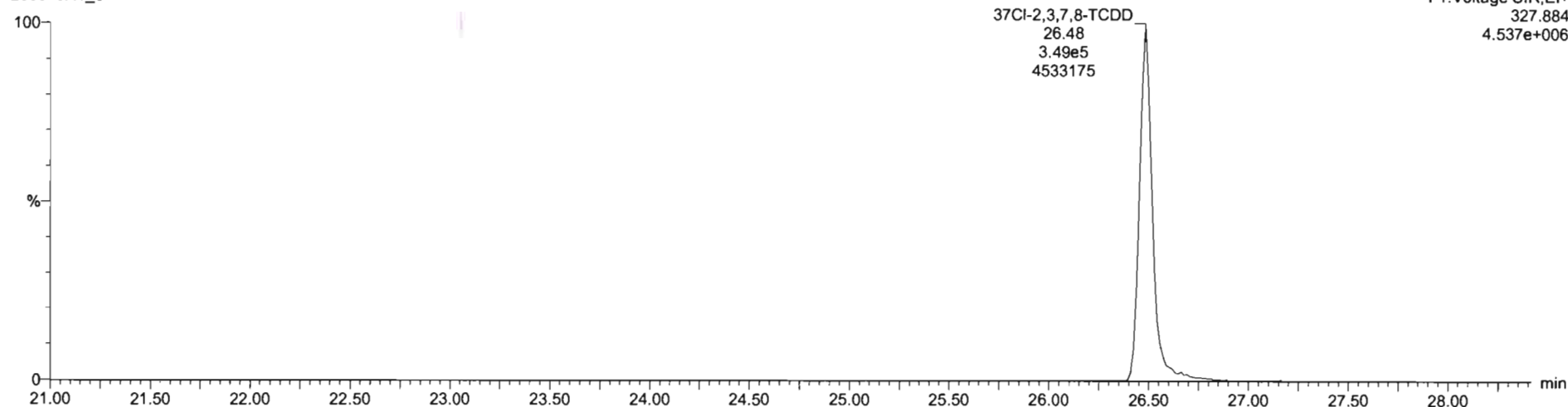
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

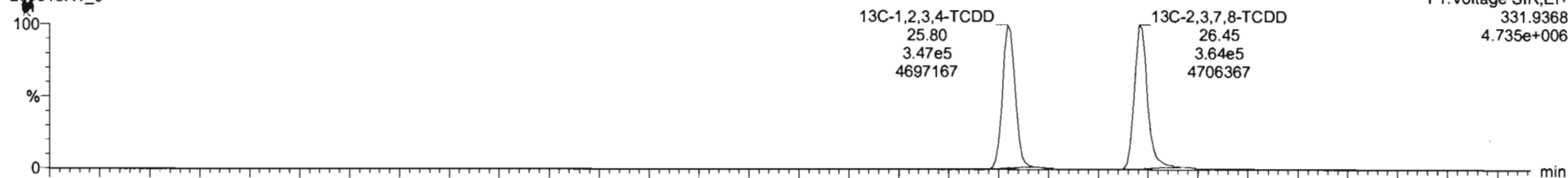
37Cl-2,3,7,8-TCDD

200618R1_6

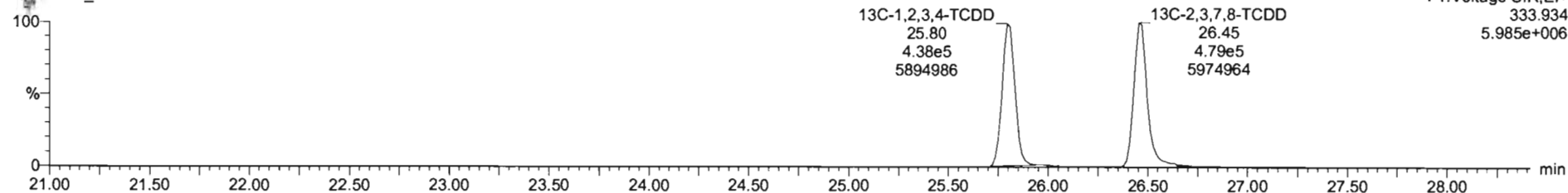


13C-1,2,3,4-TCDD

200618R1_6



200618R1_6



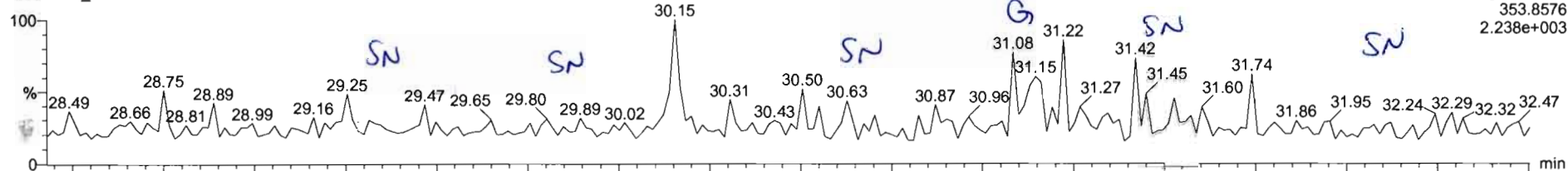
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

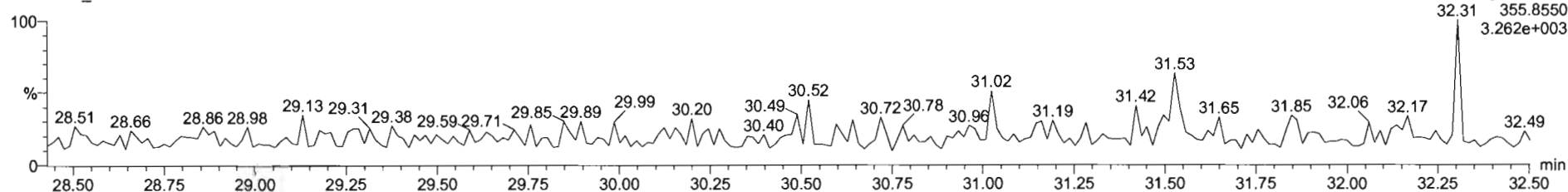
Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200618R1_6

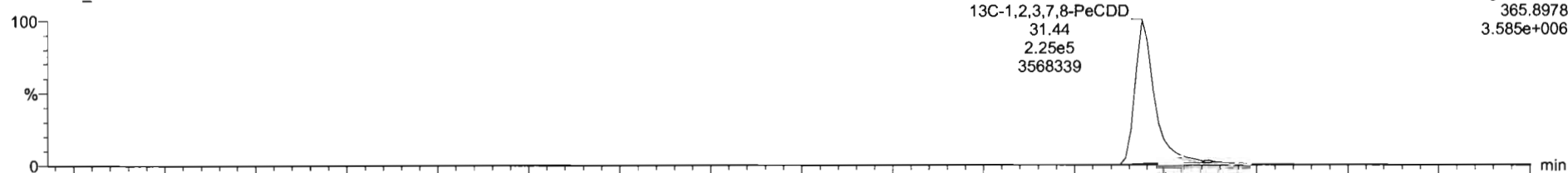


200618R1_6

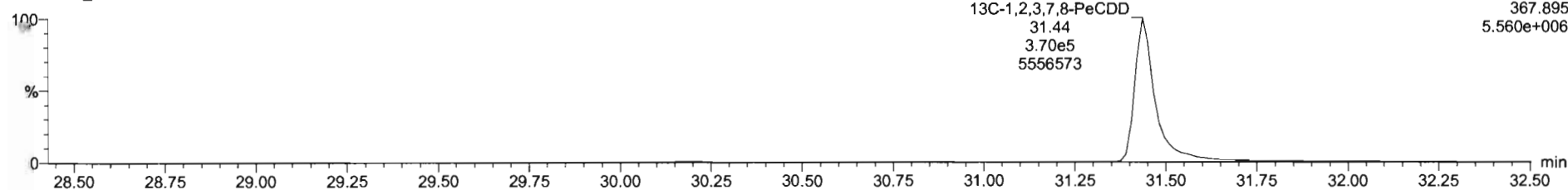


13C-1,2,3,7,8-PeCDD

200618R1_6



200618R1_6



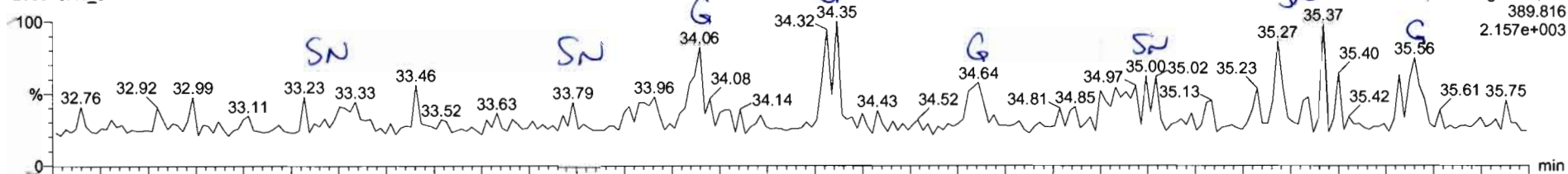
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

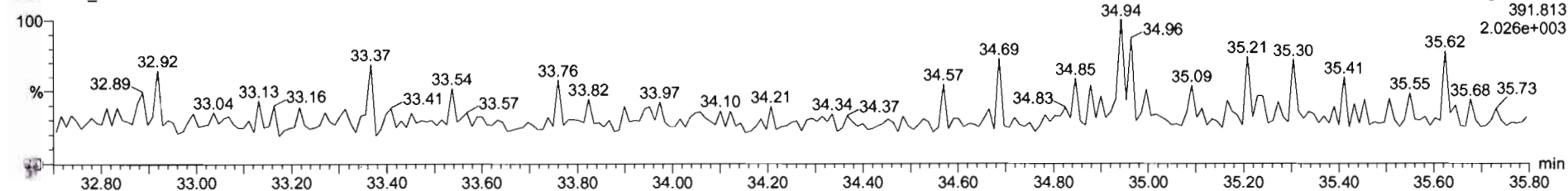
Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

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

200618R1_6

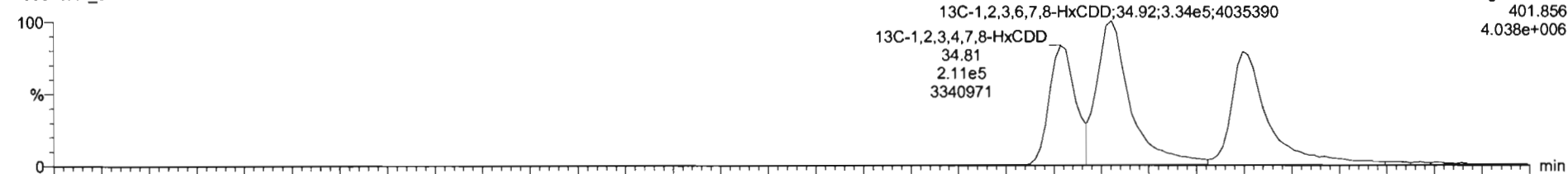


200618R1_6

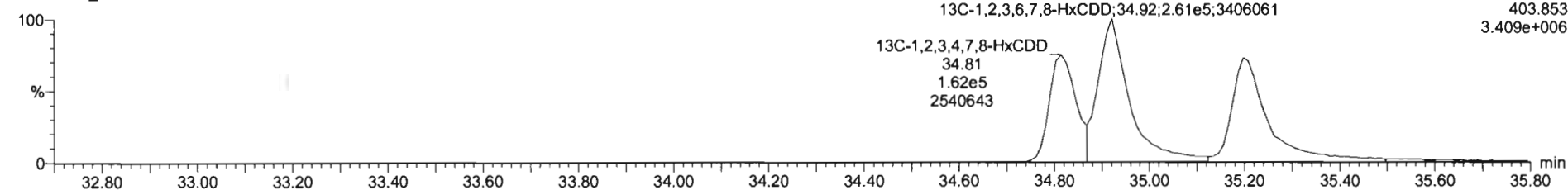


13C-1,2,3,4,7,8-HxCDD

200618R1_6



200618R1_6



Dataset: Untitled

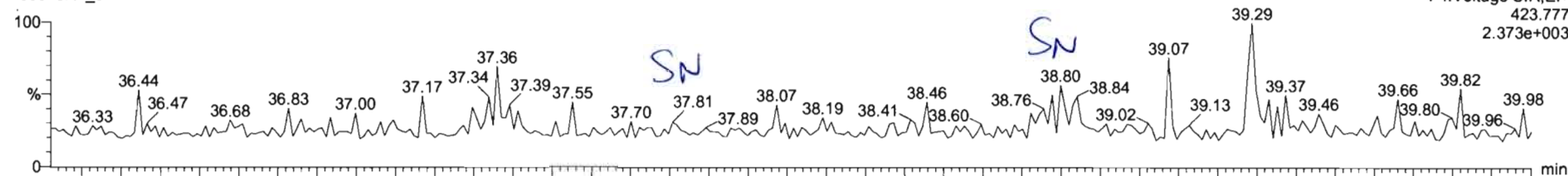
Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time

Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

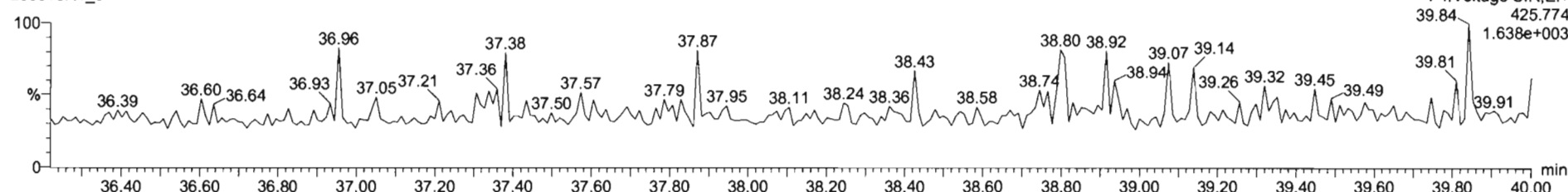
Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

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

200618R1_6

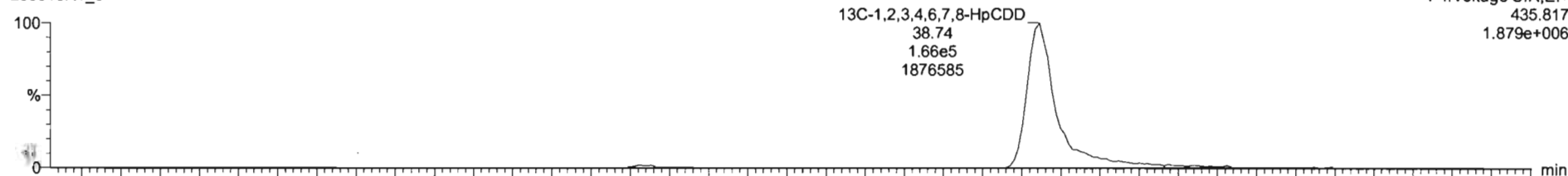


200618R1_6

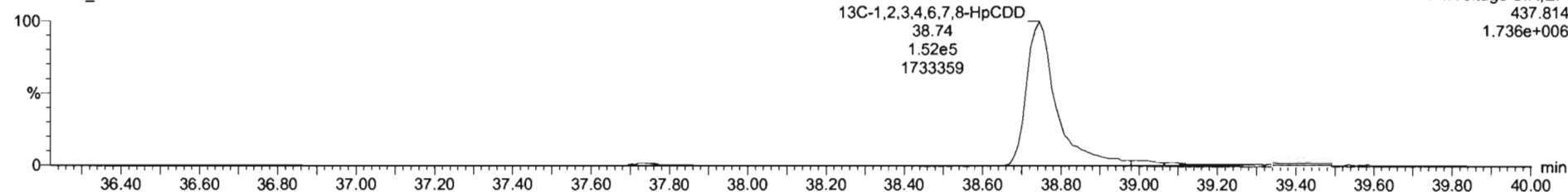


13C-1,2,3,4,6,7,8-HpCDD

200618R1_6



200618R1_6

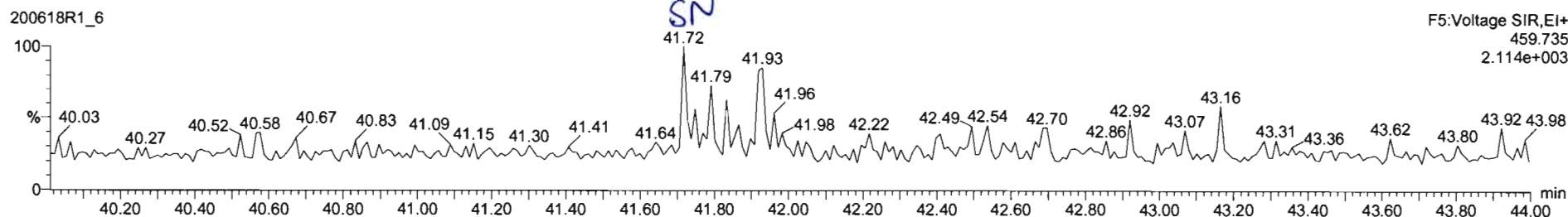
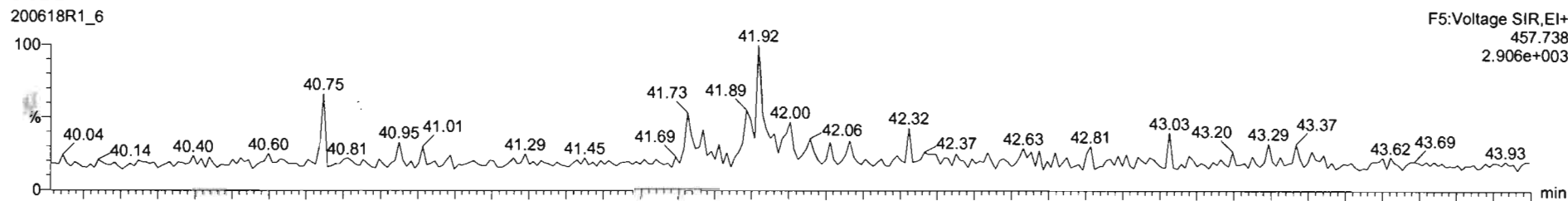


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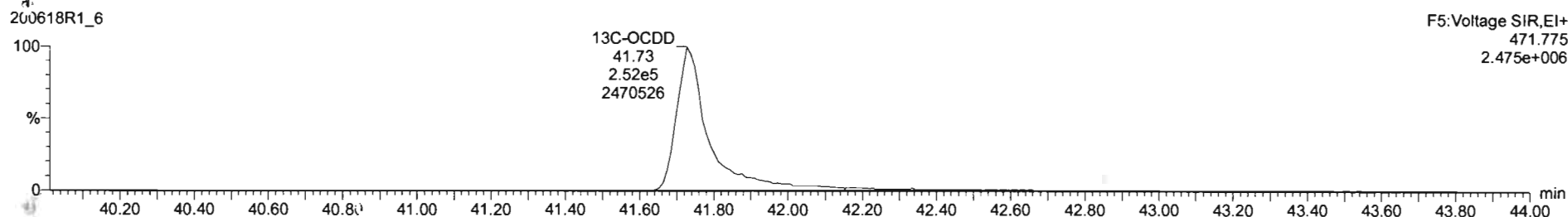
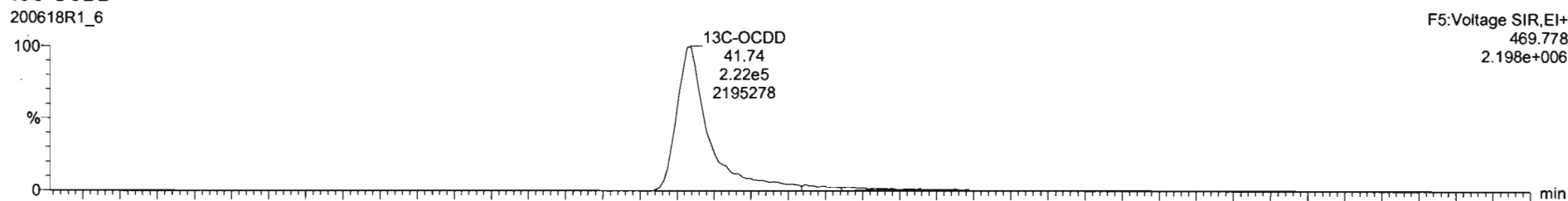
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Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

OCDD



13C-OCDD



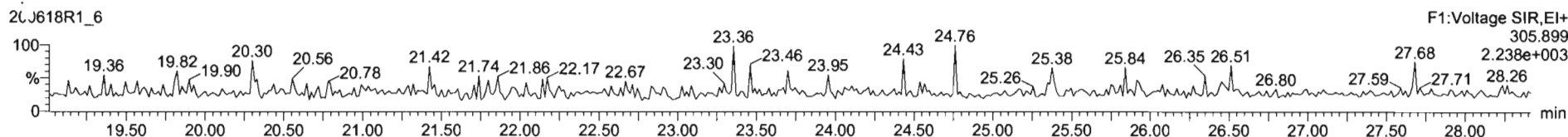
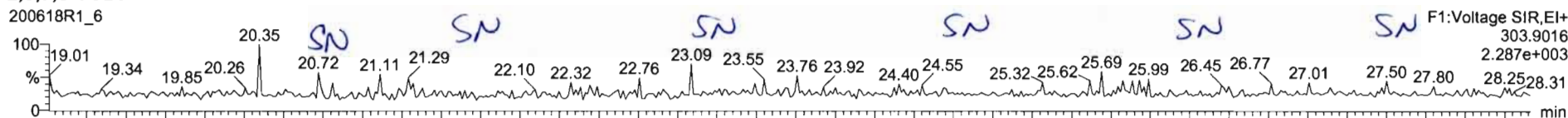
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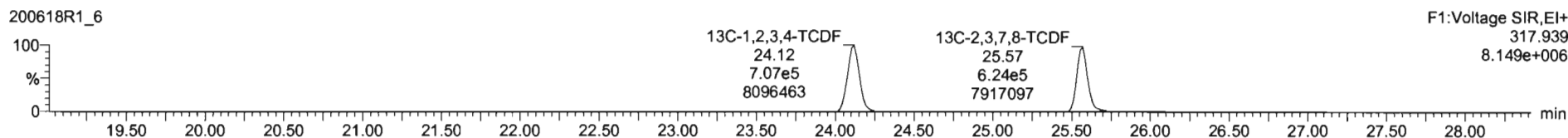
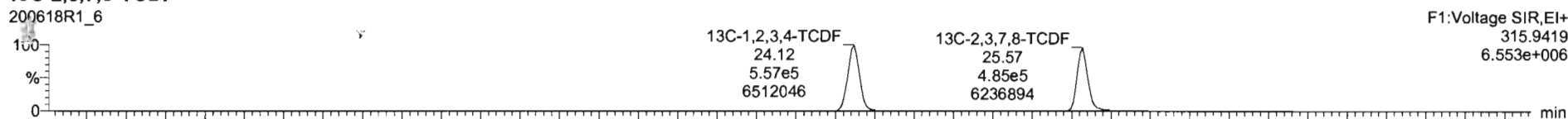
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

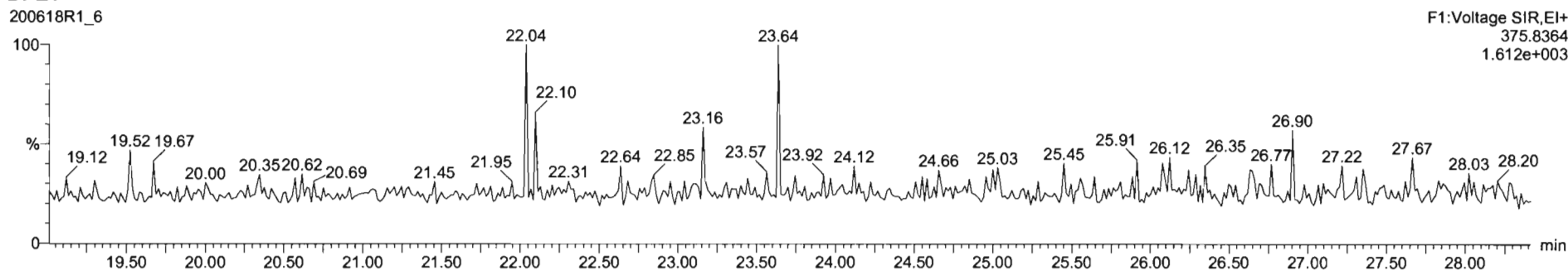
2,3,7,8-TCDF



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



DPE1



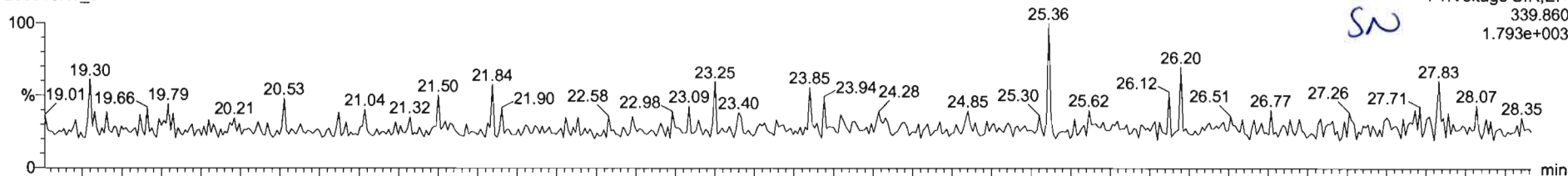
Dataset: Untitled

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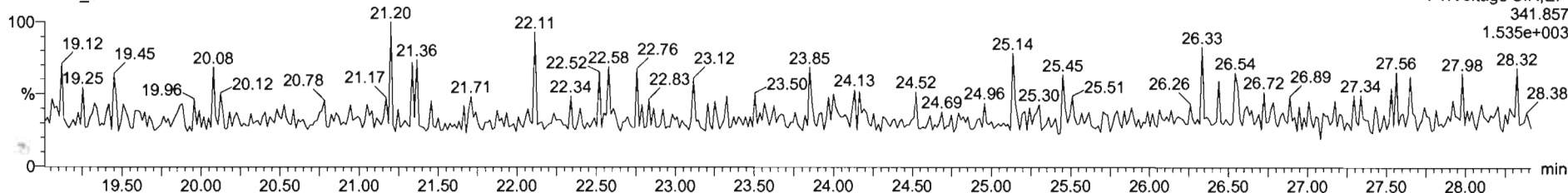
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1st Func. Penta-Furans

200618R1_6

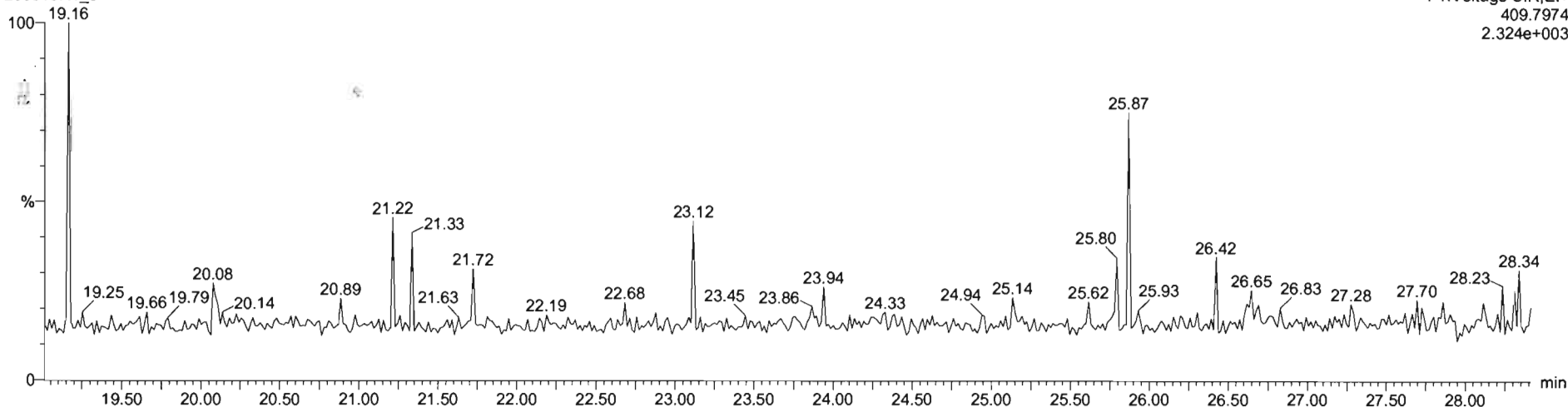


200618R1_6



DPE6

200618R1_6

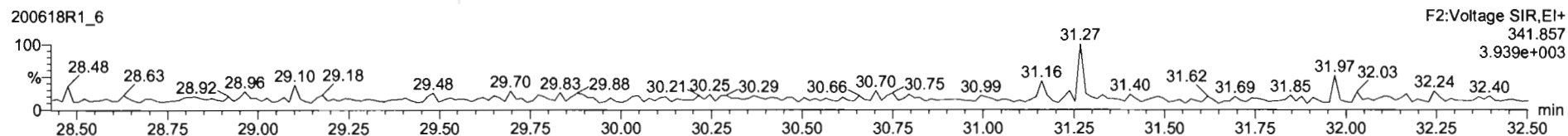
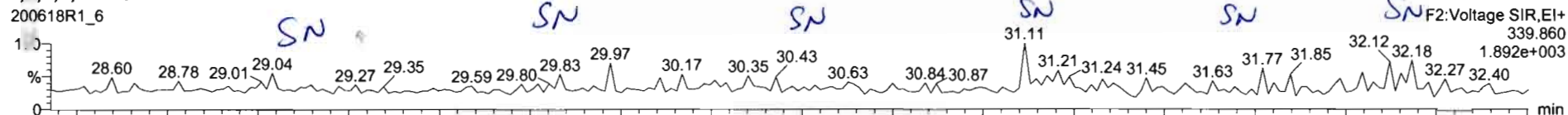


Dataset: Untitled

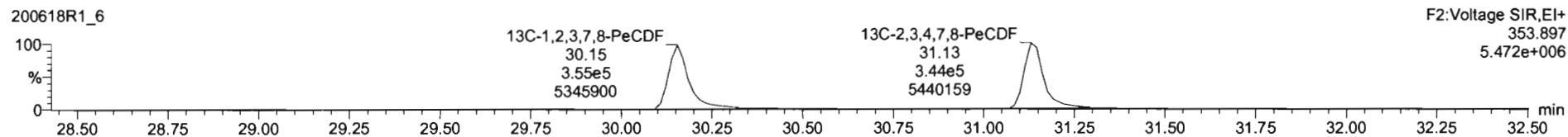
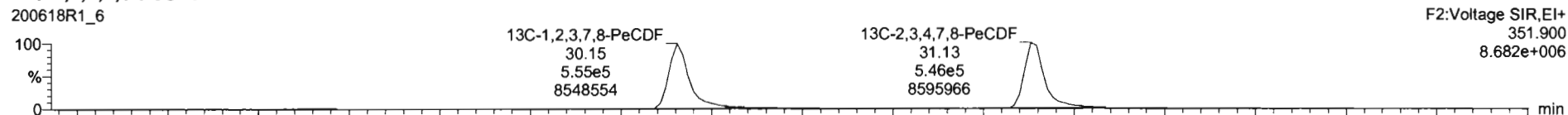
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

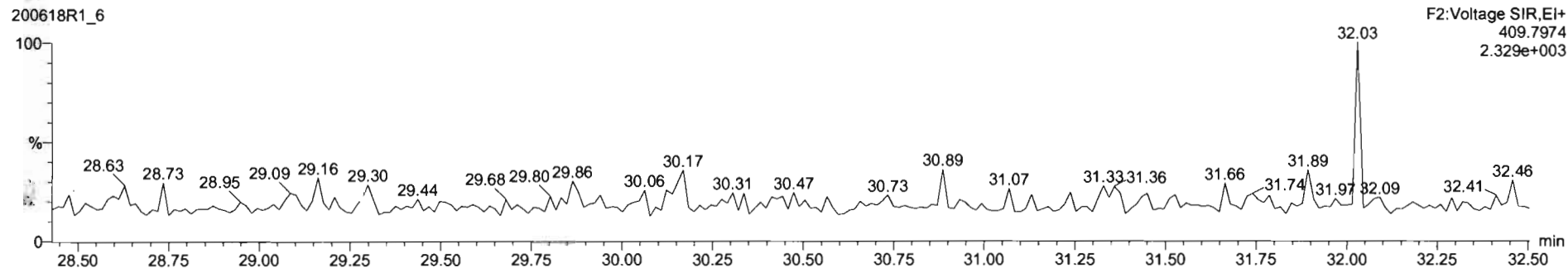
1,2,3,7,8-PeCDF



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



DPE2

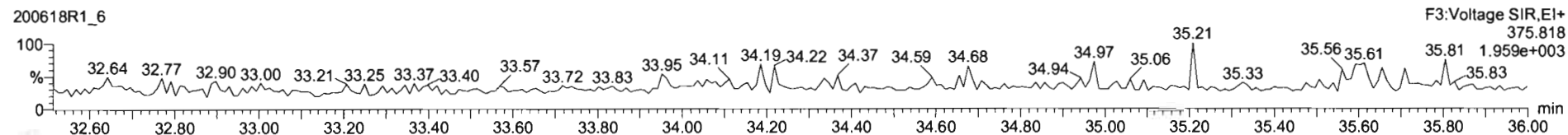
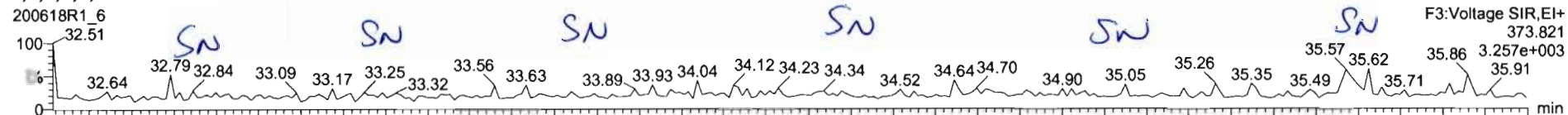


Dataset: Untitled

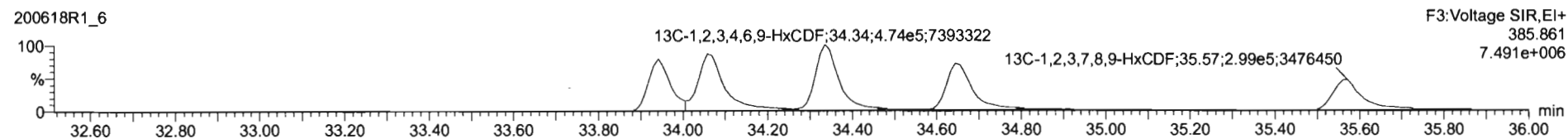
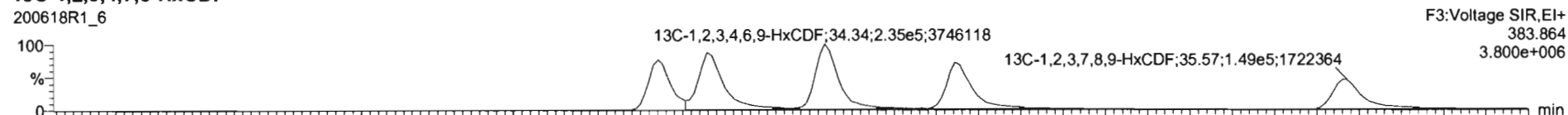
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Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

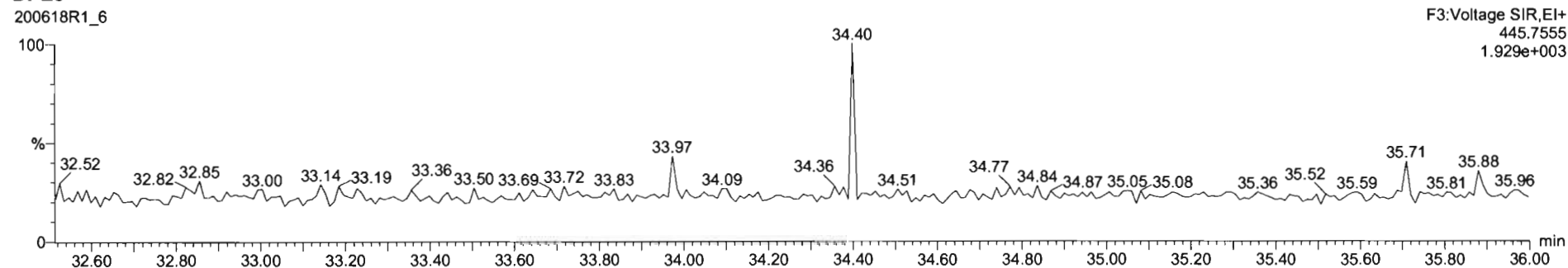
1,2,3,4,7,8-HxCDF



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



DPE3

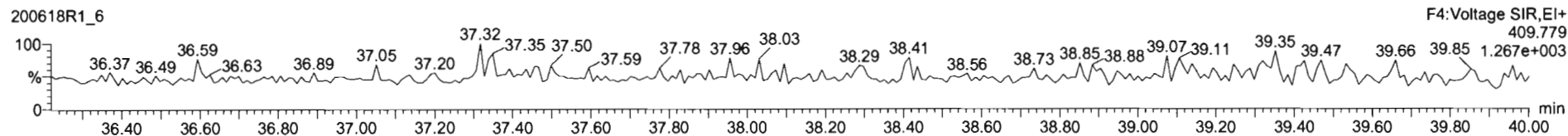
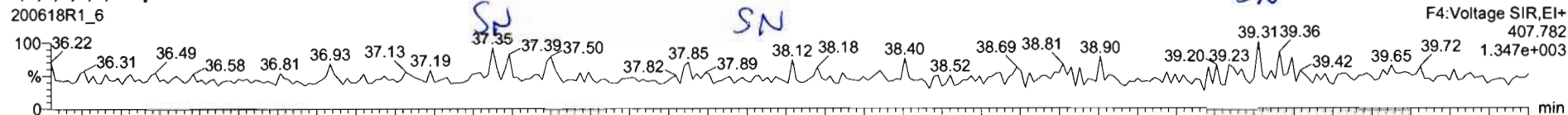


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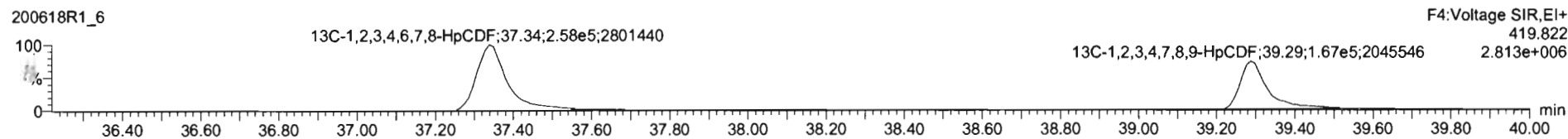
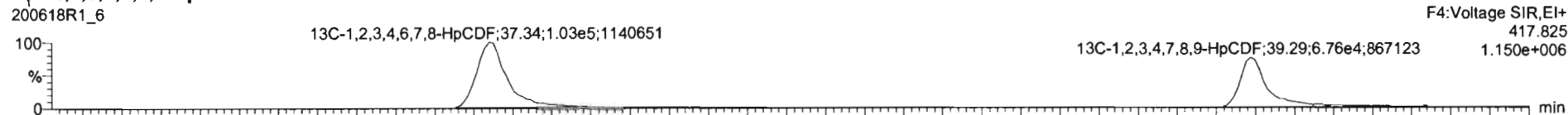
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Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank

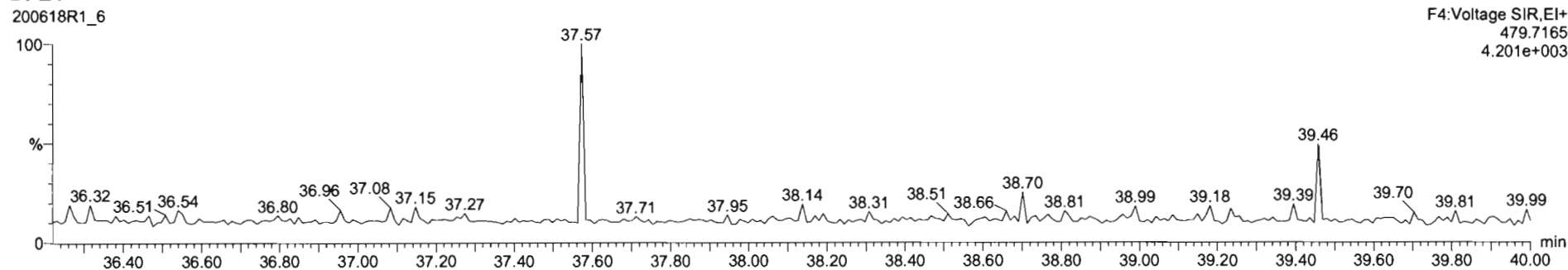
1,2,3,4,6,7,8-HpCDF



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



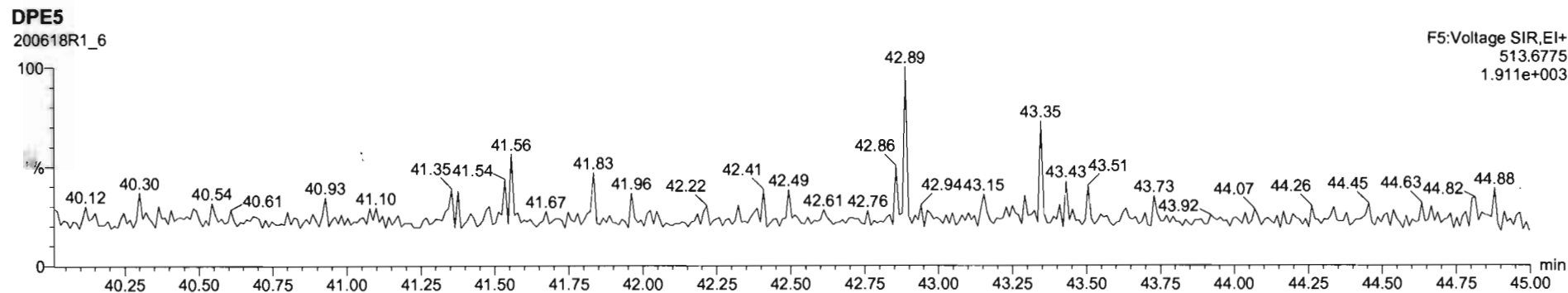
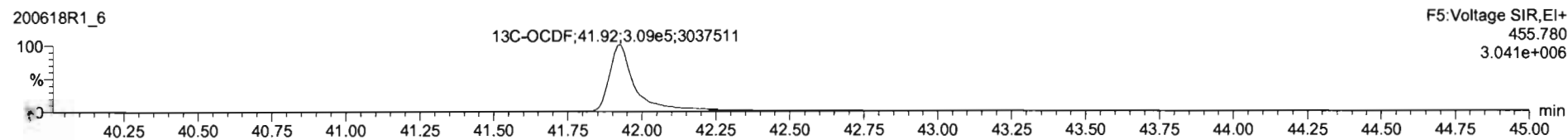
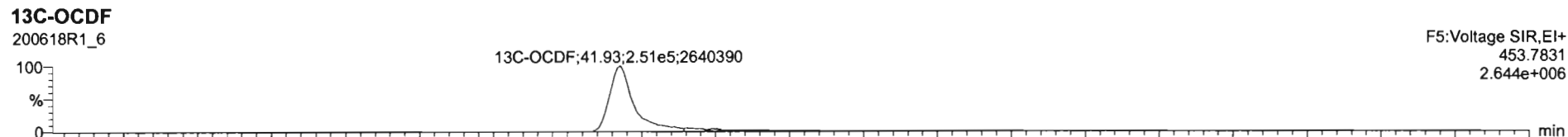
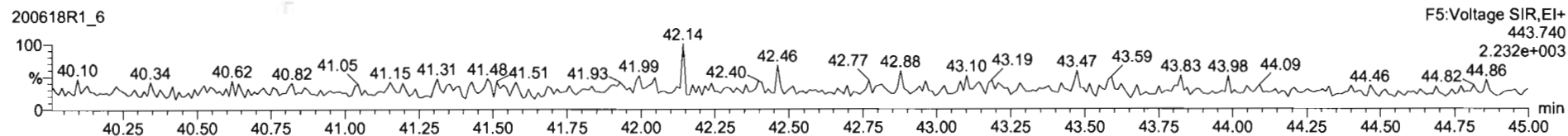
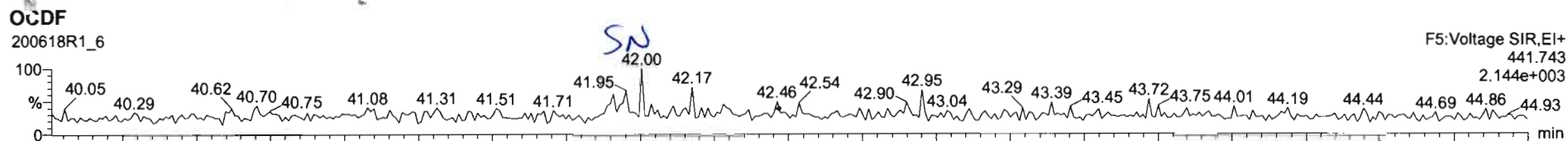
DPE4



Dataset: Untitled

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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

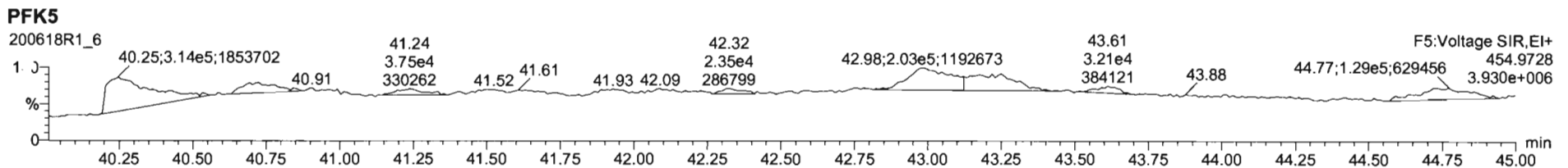
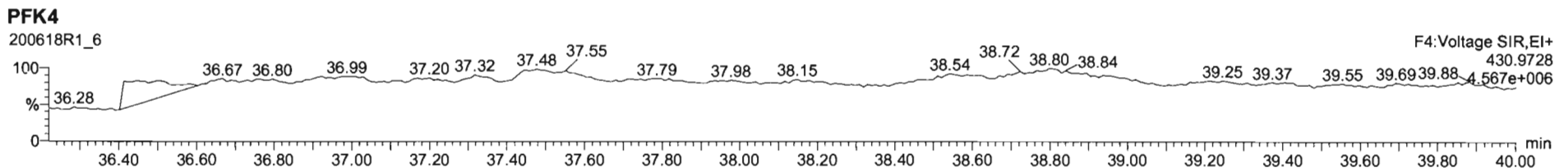
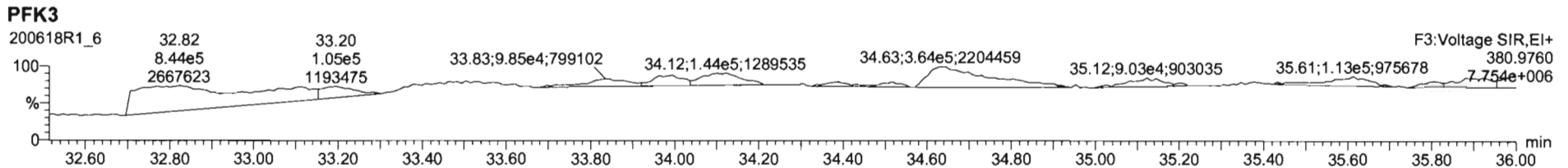
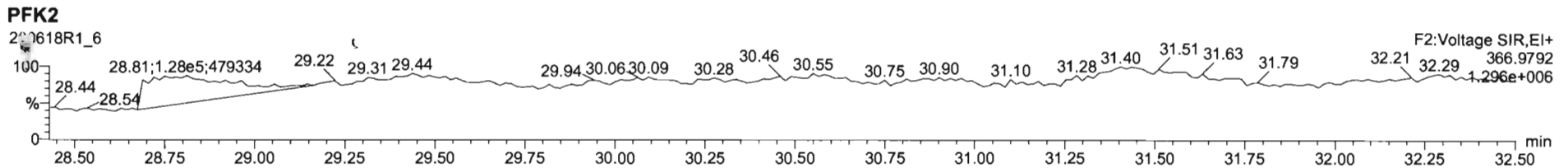
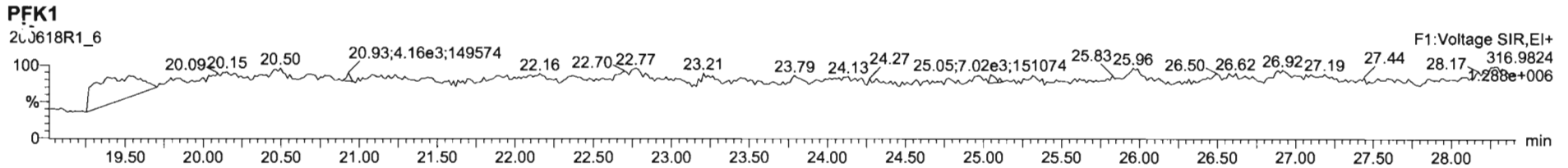
Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank



Dataset: Untitled

Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1_6, Date: 18-Jun-2020, Time: 16:58:13, ID: B0F0044-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-3.qld

Last Altered: Thursday, June 18, 2020 15:29:52 Pacific Daylight Time

Printed: Thursday, June 18, 2020 15:30:19 Pacific Daylight Time

GPR 06/18/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

C7 06/19/2020

Name: 200618R1_3, Date: 18-Jun-2020, Time: 14:39:07, ID: B0F0044-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	6.31e4	0.76	NO	0.888	10.000	26.500	26.50	1.001	1.001	19.261		0.109	19.3
2	2 1,2,3,7,8-PeCDD	2.40e5	0.63	NO	0.908	10.000	31.457	31.45	1.001	1.000	100.87		0.242	101
3	3 1,2,3,4,7,8-HxCDD	1.83e5	1.24	NO	1.03	10.000	34.825	34.83	1.000	1.000	108.50		0.531	109
4	4 1,2,3,6,7,8-HxCDD	2.49e5	1.26	NO	0.892	10.000	34.921	34.93	1.000	1.000	104.96		0.503	105
5	5 1,2,3,7,8,9-HxCDD	1.95e5	1.25	NO	0.887	10.000	35.209	35.22	1.000	1.001	100.70		0.663	101
6	6 1,2,3,4,6,7,8-HpCDD	1.25e5	1.05	NO	0.864	10.000	38.746	38.76	1.000	1.001	98.608		0.671	98.6
7	7 OCDD	2.03e5	0.89	NO	0.914	10.000	41.727	41.74	1.000	1.000	200.15		1.02	200
8	8 2,3,7,8-TCDF	7.42e4	0.72	NO	0.751	10.000	25.596	25.60	1.001	1.001	19.693		0.0782	19.7
9	9 1,2,3,7,8-PeCDF	3.81e5	1.57	NO	0.893	10.000	30.175	30.17	1.001	1.001	100.84		0.347	101
10	10 2,3,4,7,8-PeCDF	3.81e5	1.55	NO	0.935	10.000	31.161	31.15	1.001	1.000	101.08		0.318	101
11	11 1,2,3,4,7,8-HxCDF	2.07e5	1.20	NO	0.884	10.000	33.941	33.95	1.000	1.000	98.953		0.630	99.0
12	12 1,2,3,6,7,8-HxCDF	2.67e5	1.21	NO	0.889	10.000	34.069	34.08	1.000	1.001	99.575		0.558	99.6
13	13 2,3,4,6,7,8-HxCDF	2.33e5	1.16	NO	0.934	10.000	34.679	34.65	1.001	1.000	98.446		0.643	98.4
14	14 1,2,3,7,8,9-HxCDF	1.73e5	1.21	NO	0.871	10.000	35.560	35.58	1.000	1.001	98.375		1.10	98.4
15	15 1,2,3,4,6,7,8-HpCDF	1.42e5	0.95	NO	0.873	10.000	37.376	37.35	1.001	1.000	95.284		0.737	95.3
16	16 1,2,3,4,7,8,9-HpCDF	1.11e5	0.95	NO	1.01	10.000	39.288	39.30	1.000	1.000	95.325		0.857	95.3
17	17 OCDF	2.19e5	0.83	NO	0.806	10.000	41.918	41.93	1.000	1.000	201.99		0.996	202
18	18 13C-2,3,7,8-TCDD	7.37e5	0.78	NO	1.16	10.000	26.492	26.47	1.026	1.026	174.91	87.5	0.301	
19	19 13C-1,2,3,7,8-PeCDD	5.24e5	0.64	NO	0.849	10.000	31.674	31.44	1.227	1.218	169.37	84.7	0.699	
20	20 13C-1,2,3,4,7,8-HxCDD	3.26e5	1.26	NO	0.779	10.000	34.819	34.81	1.014	1.014	130.95	65.5	0.747	
21	21 13C-1,2,3,6,7,8-HxCDD	5.31e5	1.20	NO	1.02	10.000	34.933	34.92	1.017	1.017	163.67	81.8	0.573	
22	22 13C-1,2,3,7,8,9-HxCDD	4.36e5	1.24	NO	0.903	10.000	35.204	35.20	1.025	1.025	151.35	75.7	0.645	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.94e5	1.09	NO	0.689	10.000	38.727	38.73	1.128	1.128	133.52	66.8	0.669	
24	24 13C-OCDD	4.45e5	0.90	NO	0.652	10.000	41.748	41.73	1.216	1.215	213.49	53.4	0.859	
25	25 13C-2,3,7,8-TCDF	1.00e6	0.76	NO	1.06	10.000	25.534	25.57	0.989	0.991	160.86	80.4	0.371	
26	26 13C-1,2,3,7,8-PeCDF	8.47e5	1.66	NO	0.838	10.000	30.059	30.15	1.165	1.168	171.65	85.8	0.833	
27	27 13C-2,3,4,7,8-PeCDF	8.06e5	1.66	NO	0.817	10.000	31.011	31.13	1.202	1.206	167.75	83.9	0.855	
28	28 13C-1,2,3,4,7,8-HxCDF	4.73e5	0.50	NO	1.01	10.000	33.951	33.94	0.989	0.989	147.06	73.5	0.830	
29	29 13C-1,2,3,6,7,8-HxCDF	6.04e5	0.49	NO	1.17	10.000	34.074	34.06	0.992	0.992	162.10	81.1	0.717	
30	30 13C-2,3,4,6,7,8-HxCDF	5.08e5	0.50	NO	1.02	10.000	34.648	34.64	1.009	1.009	155.57	77.8	0.819	
31	31 13C-1,2,3,7,8,9-HxCDF	4.04e5	0.49	NO	0.860	10.000	35.547	35.56	1.035	1.036	147.31	73.7	0.973	

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Printed: Thursday, June 18, 2020 15:30:19 Pacific Daylight Time

Name: 200618R1_3, Date: 18-Jun-2020, Time: 14:39:07, ID: B0F0044-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	3.42e5	0.40	NO	0.774	10.000	37.295	37.34	1.086	1.087	138.28	69.1	1.17	
33	13C-1,2,3,4,7,8,9-HpCDF	2.31e5	0.42	NO	0.521	10.000	39.324	39.29	1.145	1.144	138.80	69.4	1.74	
34	13C-OCDF	5.38e5	0.88	NO	0.746	10.000	41.920	41.92	1.221	1.221	225.75	56.4	0.697	
35	37Cl-2,3,7,8-TCDD	3.25e5			1.04	10.000	26.523	26.48	1.028	1.026	86.037	108	0.0692	
36	13C-1,2,3,4-TCDD	7.29e5	0.79	NO	1.00	10.000	25.890	25.81	1.000	1.000	200.00	100	0.348	
37	13C-1,2,3,4-TCDF	1.18e6	0.78	NO	1.00	10.000	24.360	24.12	1.000	1.000	200.00	100	0.393	
38	13C-1,2,3,4,6,9-HxCDF	6.39e5	0.50	NO	1.00	10.000	34.420	34.34	1.000	1.000	200.00	100	0.837	

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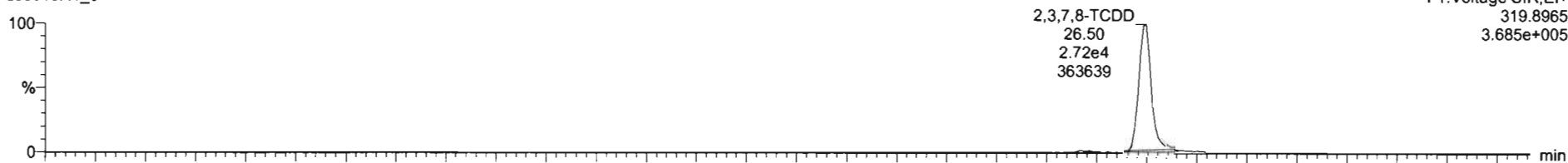
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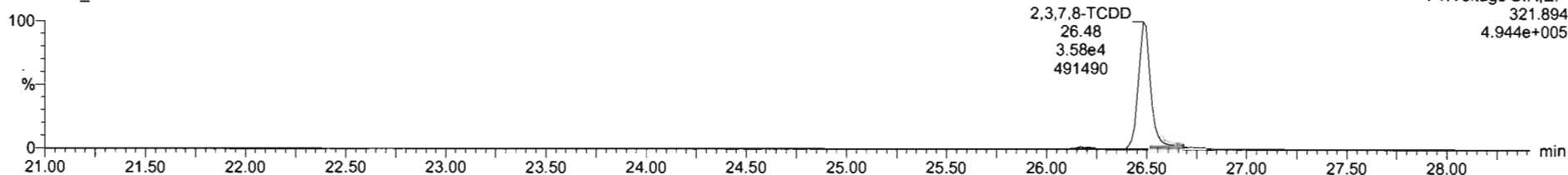
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2,3,7,8-TCDD

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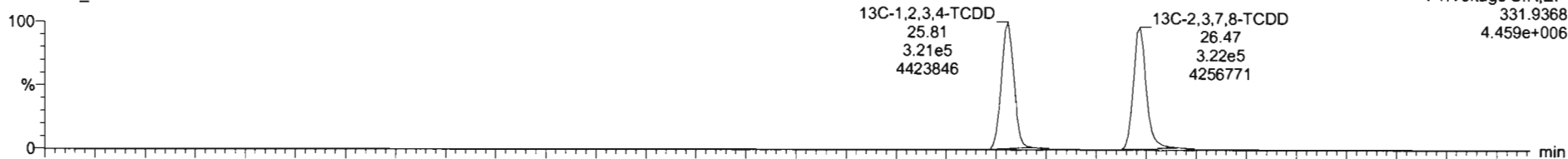


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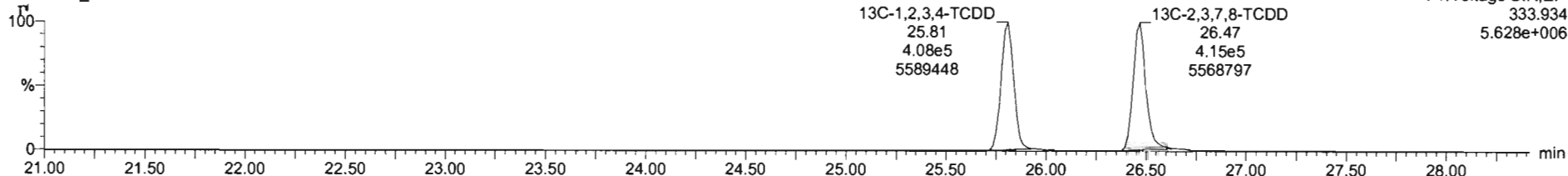


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200618R1_3



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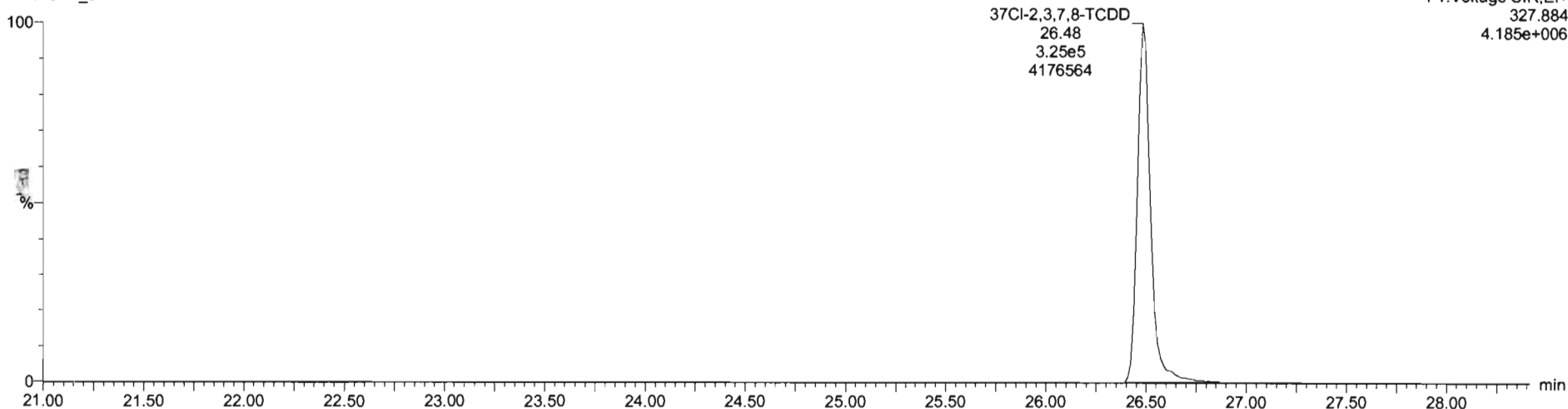
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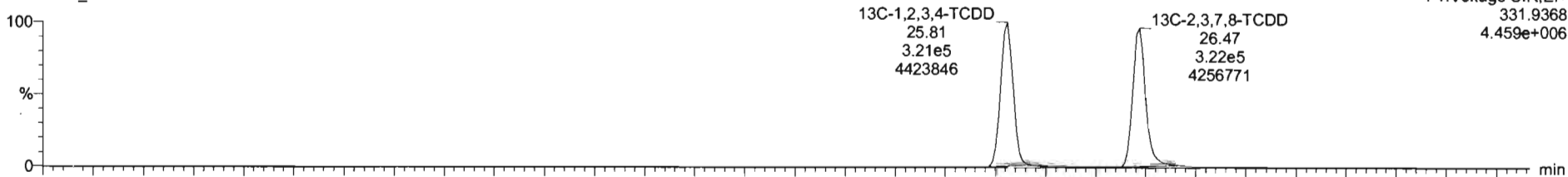
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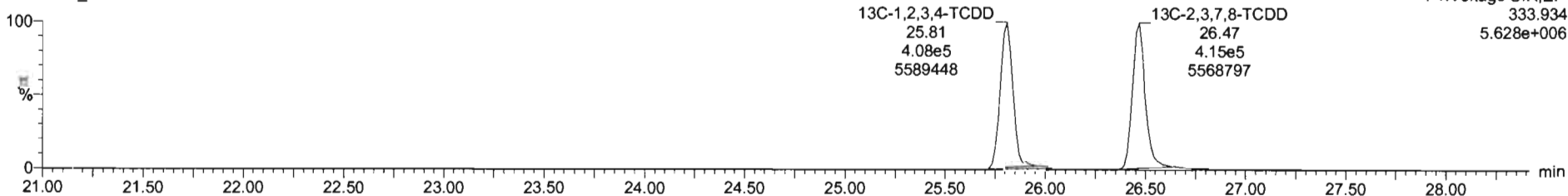


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200618R1_3



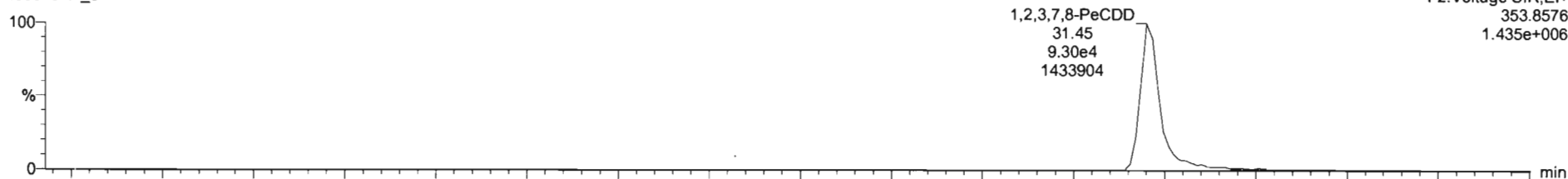
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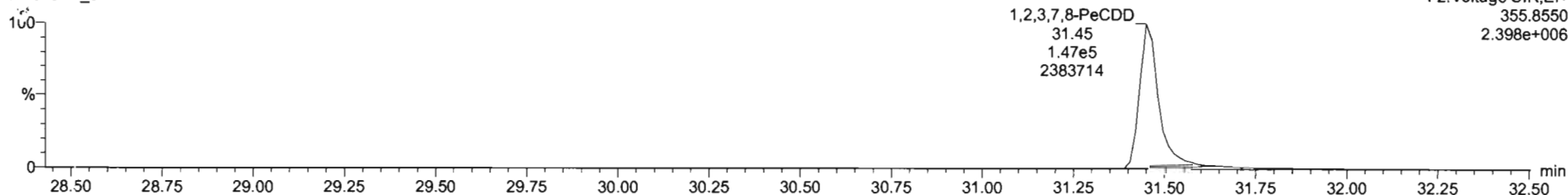
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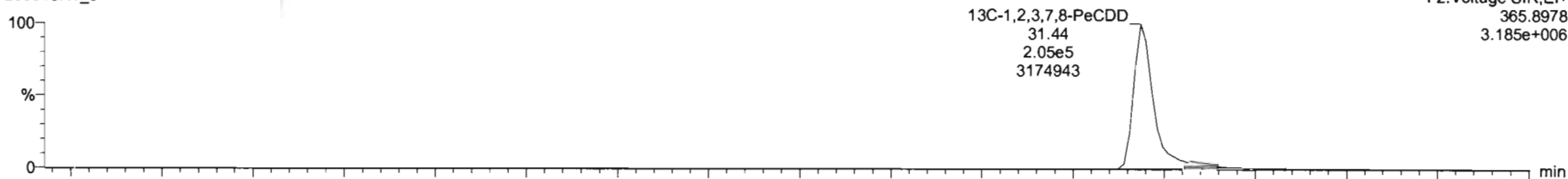


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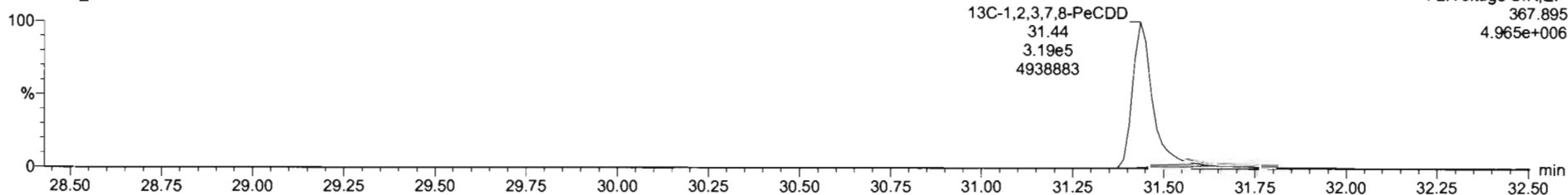


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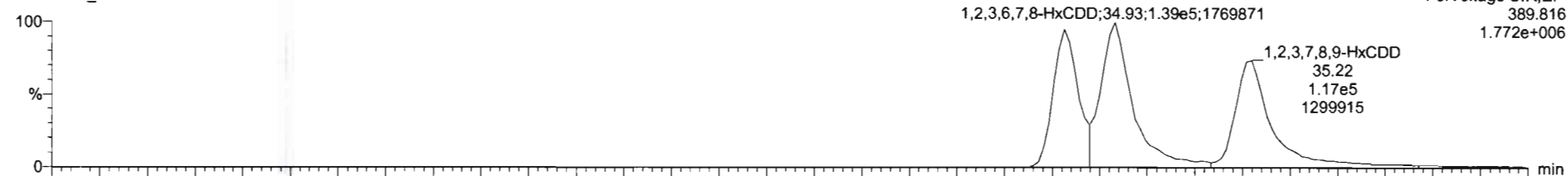
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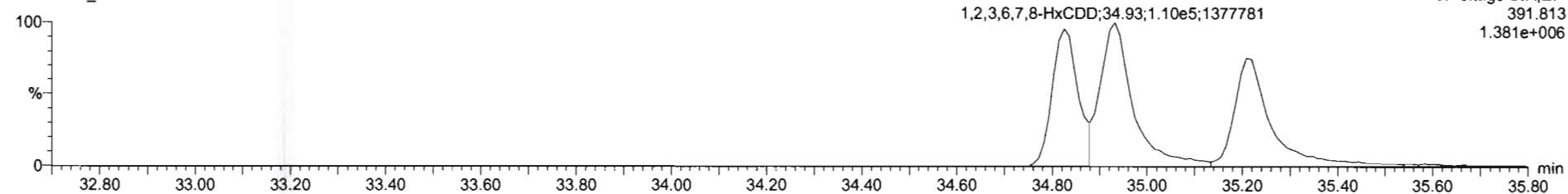
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1,2,3,4,7,8-HxCDD

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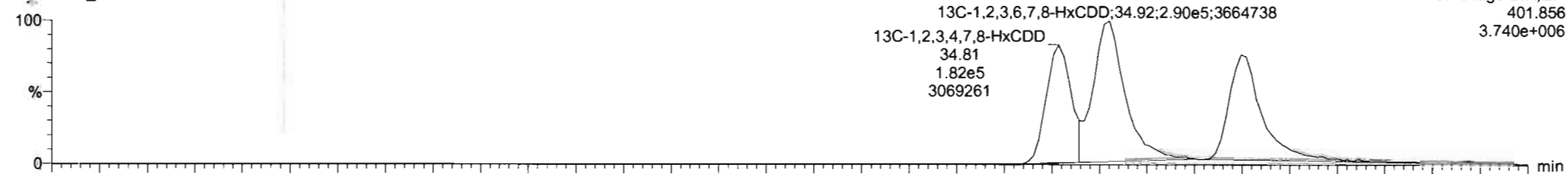


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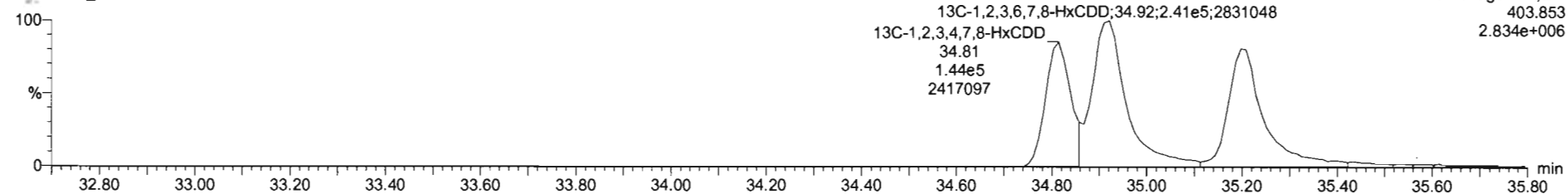


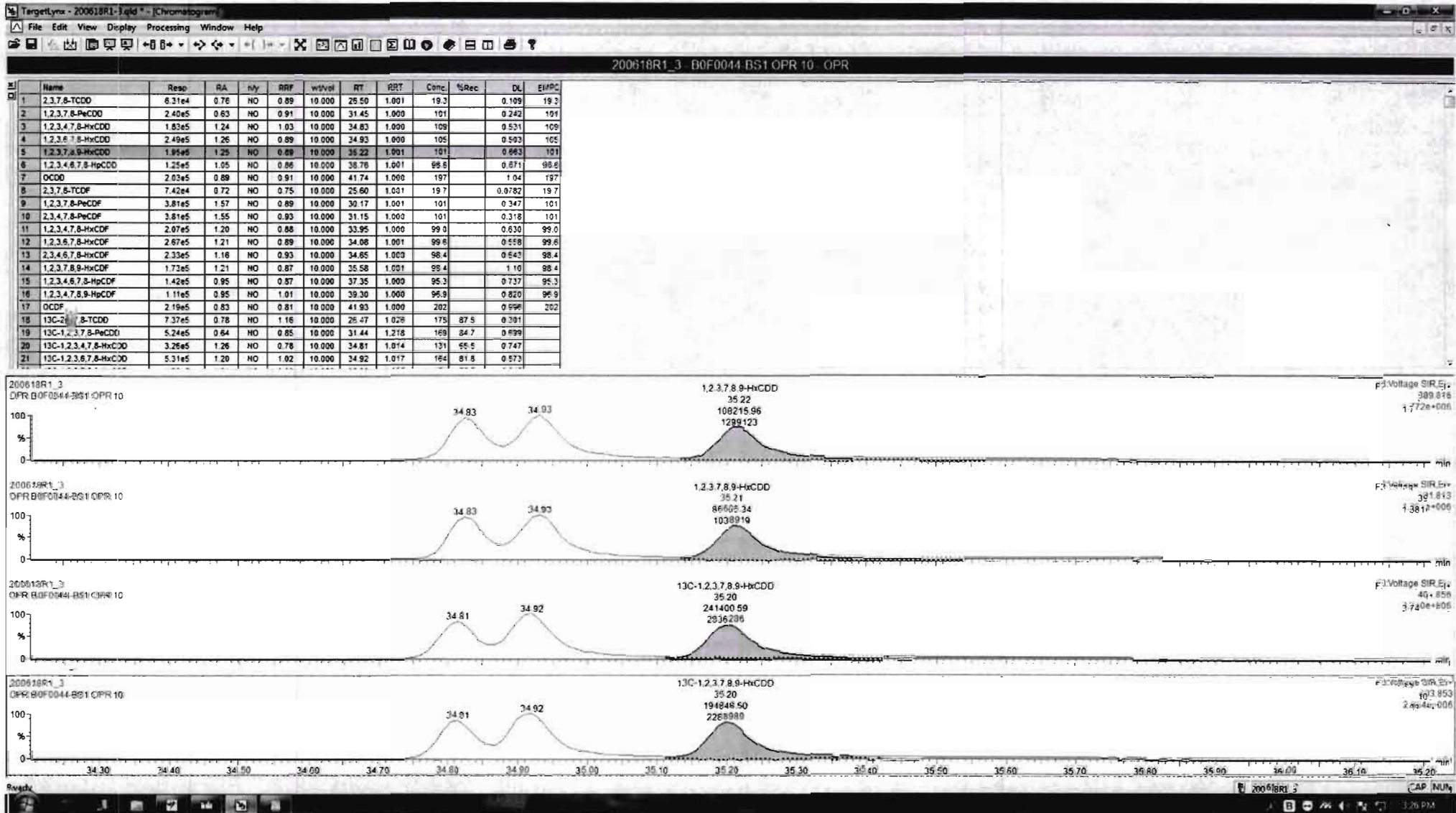
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200618R1_3





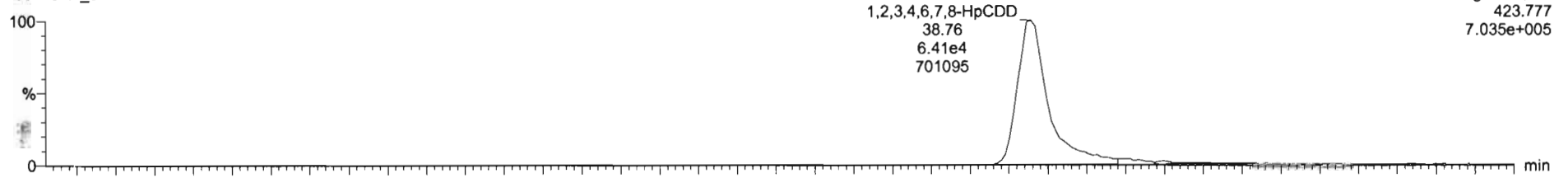
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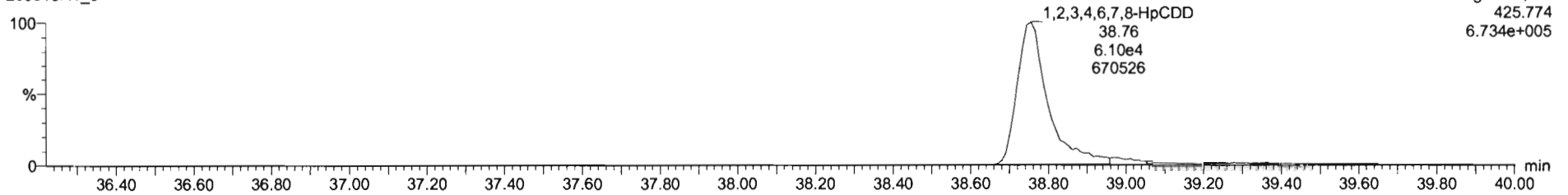
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1,2,3,4,6,7,8-HpCDD

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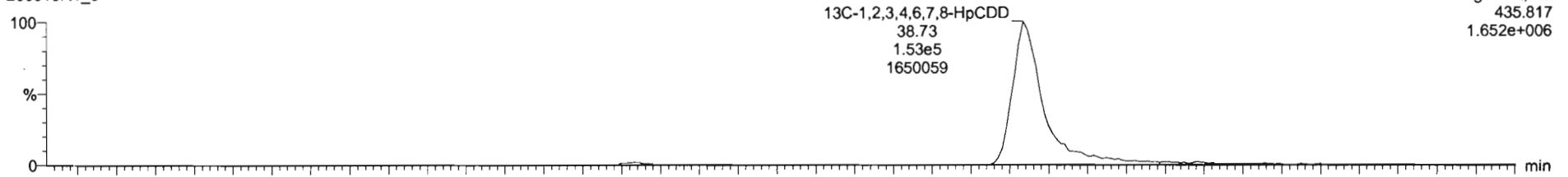


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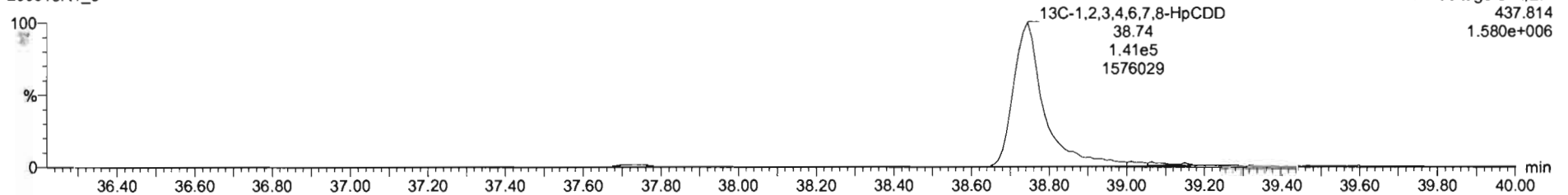


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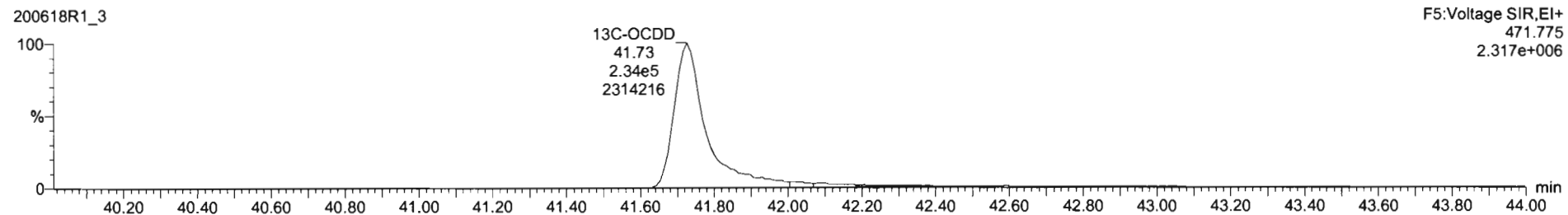
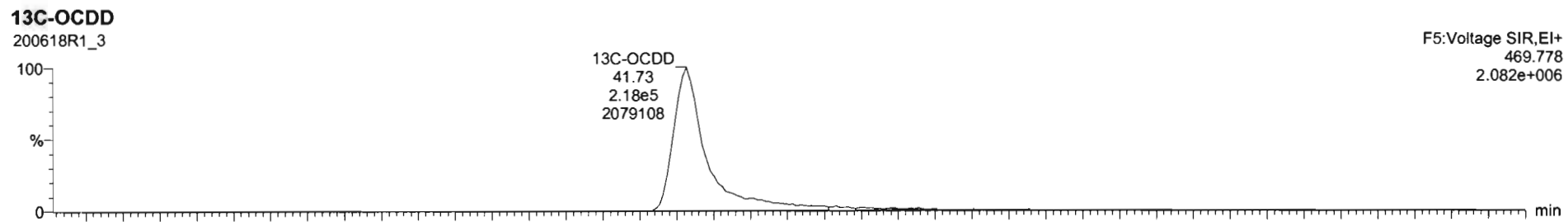
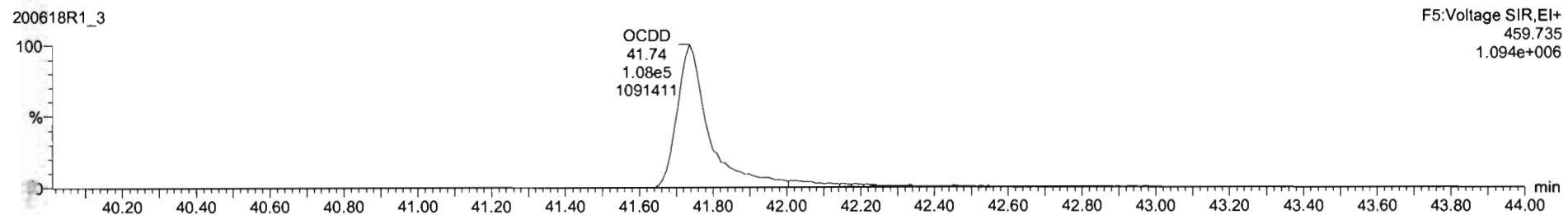
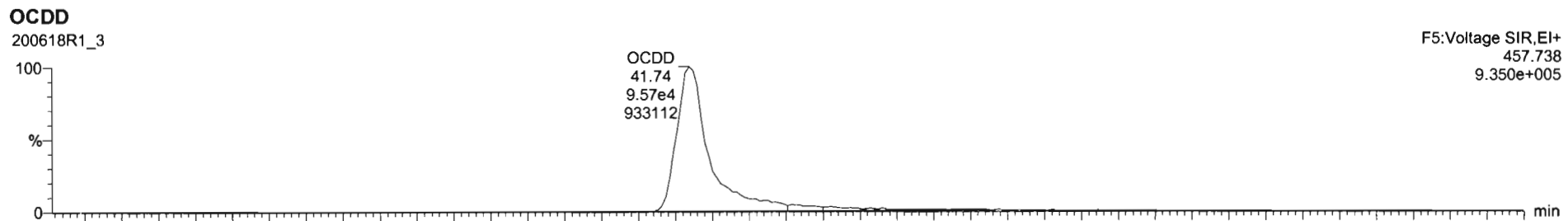
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Name: 200618R1_3, Date: 18-Jun-2020, Time: 14:39:07, ID: B0F0044-BS1 OPR 10, Description: OPR



TargetLynx - 200618R1_1.qld - [Chromatogram]

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200618R1_3_B0F0044_BS1_OPR10_OPR

#	Name	Resp	RA	Ny	RRF	wtval	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	6.31e4	0.76	NO	0.89	10.000	26.50	1.001	19.3		0.109	19.3
2	1,2,3,7,8-PeCDD	2.40e5	0.63	NO	0.91	10.000	31.45	1.000	101		0.242	101
3	1,2,3,4,7,8-HxCDD	1.83e5	1.24	NO	1.03	10.000	34.83	1.000	109		0.531	109
4	1,2,3,6,7,8-HxCDD	2.49e5	1.26	NO	0.89	10.000	34.83	1.003	105		0.593	105
5	1,2,3,7,8,9-HxCDD	1.95e5	1.25	NO	0.89	10.000	35.22	1.001	101		0.663	101
6	1,2,3,4,6,7,8-HpCDD	1.25e5	1.05	NO	0.86	10.000	38.76	1.001	98.6		0.671	98.6
7	OCDD	2.03e5	0.89	NO	0.91	10.000	41.74	1.000	200		1.82	200
8	2,3,7,8-TCDF	7.42e4	0.72	NO	0.75	10.000	25.60	1.001	19.7		0.0792	19.7
9	1,2,3,7,8-PeCDF	3.81e5	1.57	NO	0.89	10.000	30.17	1.001	101		0.347	101
10	2,3,4,7,8-PeCDF	3.81e5	1.55	NO	0.93	10.000	31.15	1.000	101		0.318	101
11	1,2,3,4,7,8-HxCDF	2.07e5	1.20	NO	0.88	10.000	33.95	1.000	99.0		0.630	99.0
12	1,1,3,6,7,8-HxCDF	2.67e5	1.21	NO	0.89	10.000	34.08	1.001	99.6		0.558	99.6
13	2,3,4,6,7,8-HxCDF	2.33e5	1.16	NO	0.93	10.000	34.65	1.000	98.4		0.643	98.4
14	1,2,3,7,8,9-HxCDF	1.73e5	1.21	NO	0.87	10.000	35.58	1.001	98.4		1.10	98.4
15	1,2,3,4,6,7,8-HpCDF	1.42e5	0.95	NO	0.87	10.000	37.35	1.000	95.3		0.737	95.3
16	1,2,3,4,7,8,9-HpCDF	1.11e5	0.95	NO	1.01	10.000	39.30	1.000	96.9		0.820	96.9
17	OCDF	2.19e5	0.83	NO	0.81	10.000	41.93	1.000	202		0.996	202
18	13C-2,3,7,8-TCDD	7.37e5	0.78	NO	1.16	10.000	26.47	1.026	175	87.5	0.381	
19	13C-1,2,3,7,8-PeCDD	5.24e5	0.64	NO	0.85	10.000	31.44	1.218	169	84.7	0.690	
20	13C-1,2,3,4,7,8-HxCDD	3.26e5	1.26	NO	0.76	10.000	34.61	1.014	131	65.5	0.747	
21	13C-1,2,3,4,6,7,8-HpCDD	5.31e5	1.20	NO	1.02	10.000	34.92	1.017	164	81.8	0.573	



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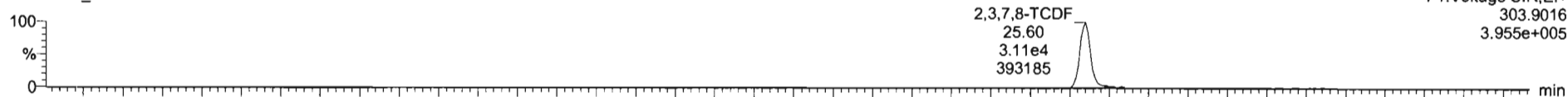
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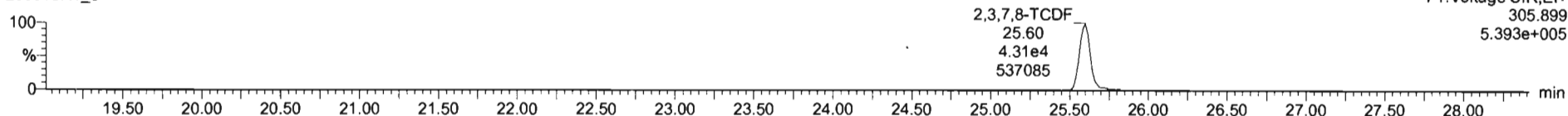
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2,3,7,8-TCDF

200618R1_3

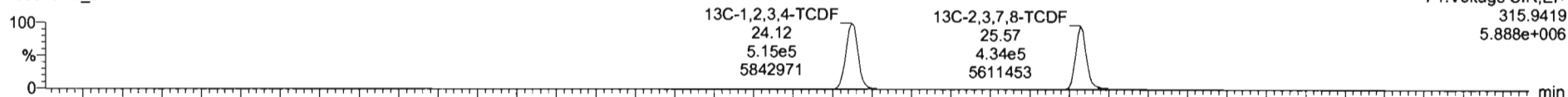


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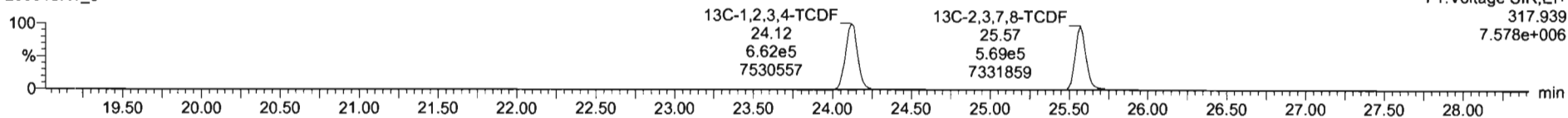


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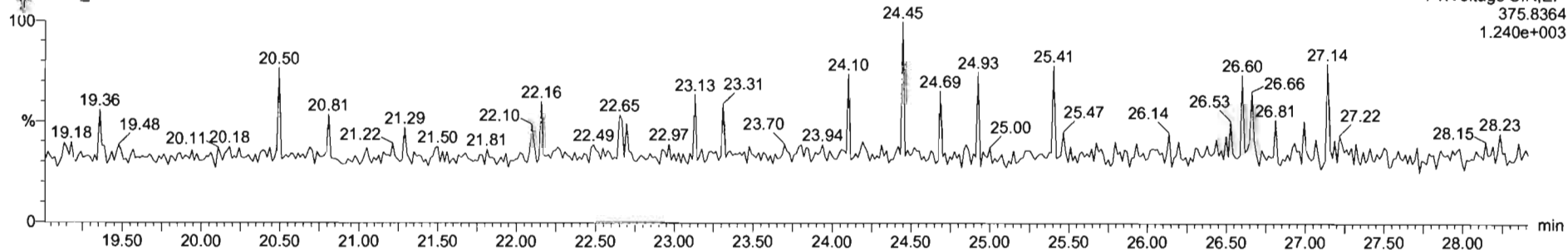


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DPE1

200618R1_3



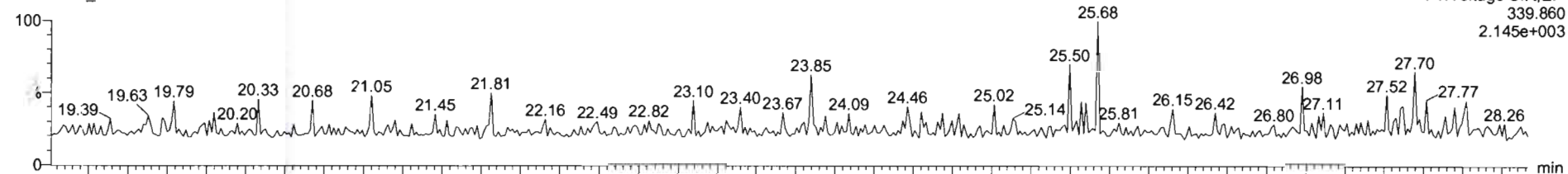
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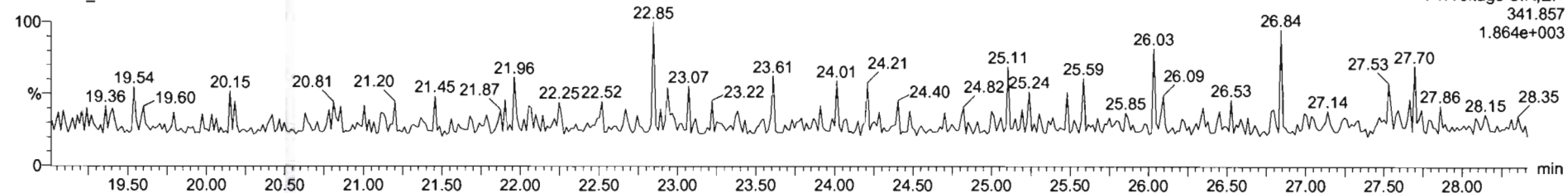
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200618R1_3

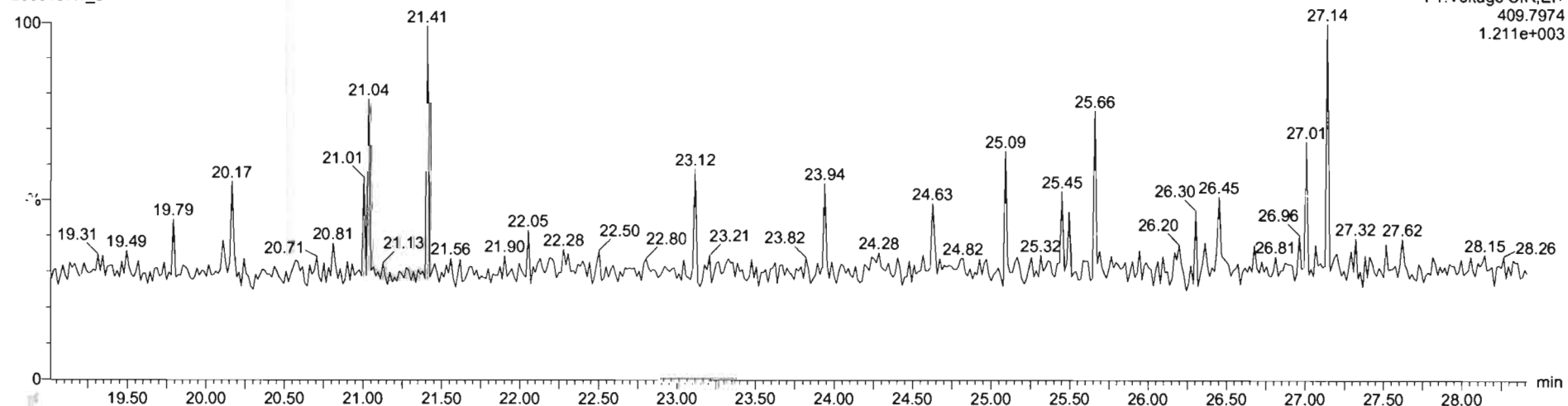


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DPE6

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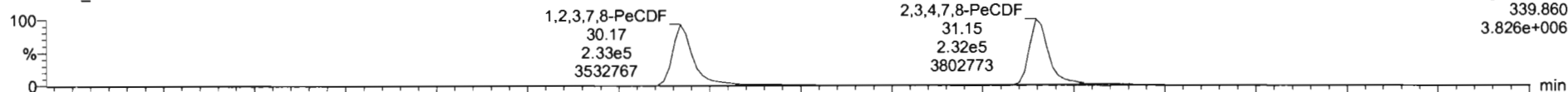
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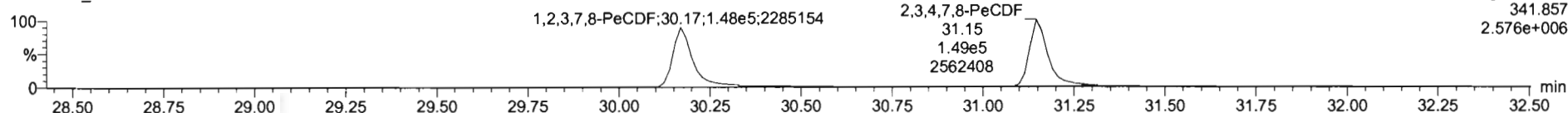
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1,2,3,7,8-PeCDF

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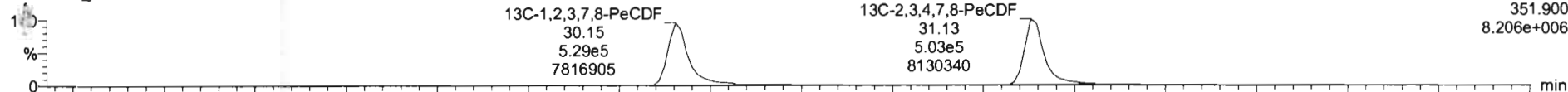


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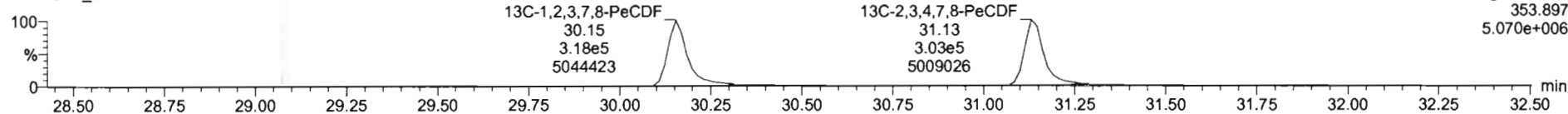


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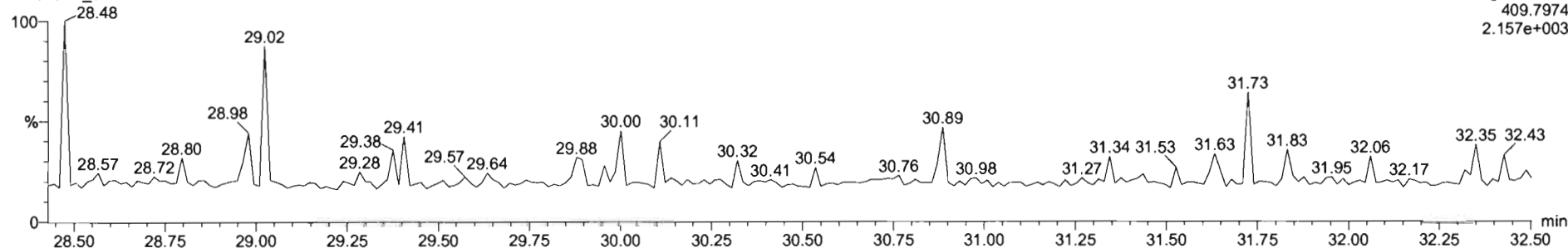


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DPE2

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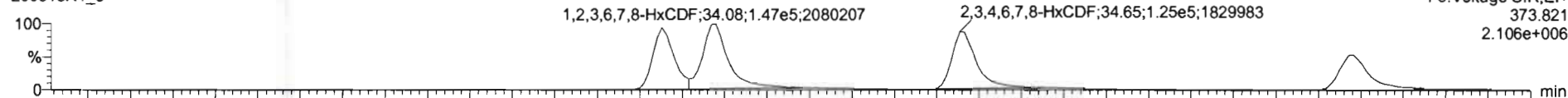
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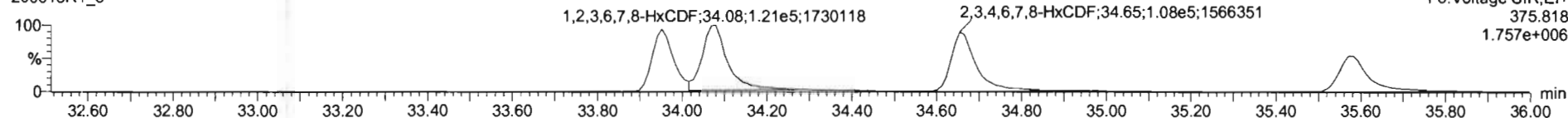
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200618R1_3

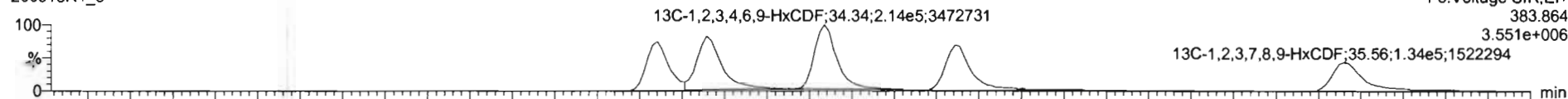


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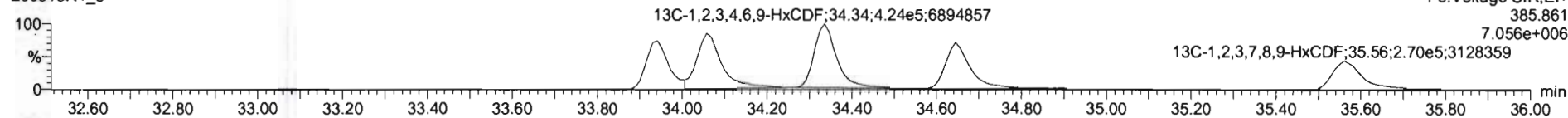


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200618R1_3

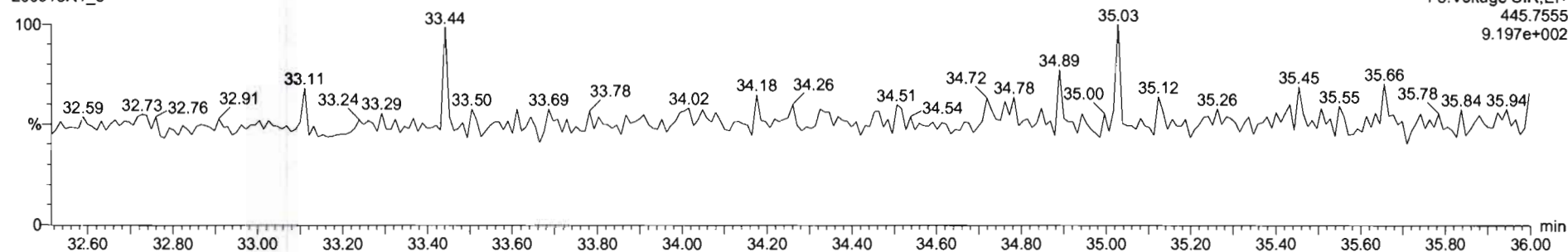


200618R1_3



DPE3

200618R1_3



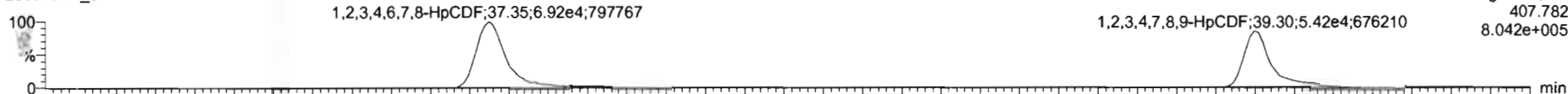
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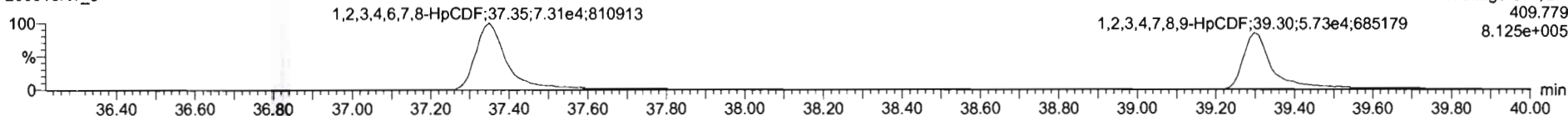
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1,2,3,4,6,7,8-HpCDF

200618R1_3



200618R1_3

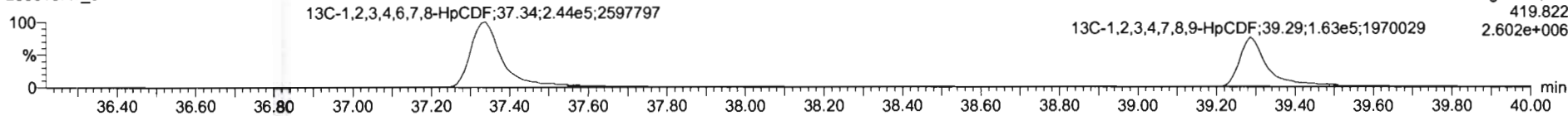


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200618R1_3

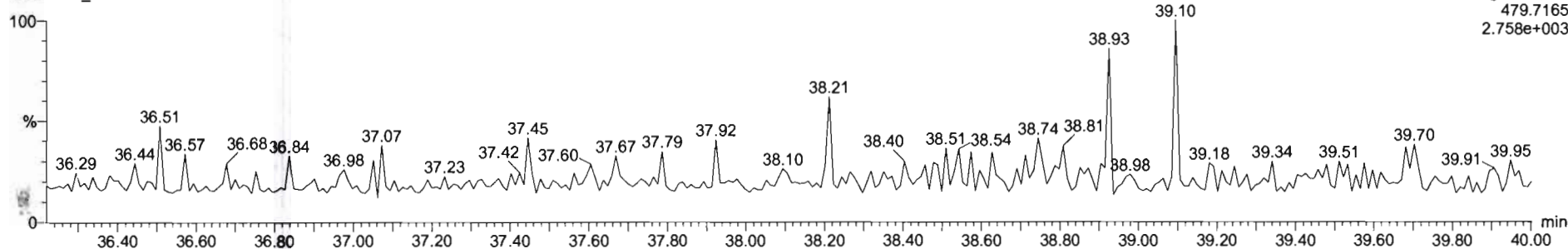


200618R1_3



DPE4

200618R1_3

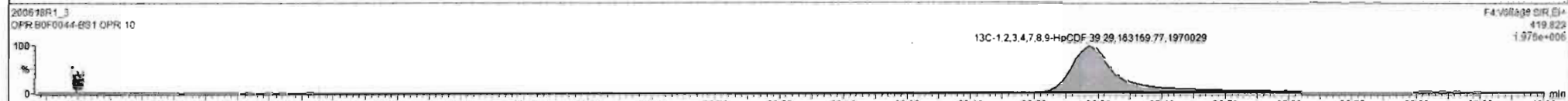
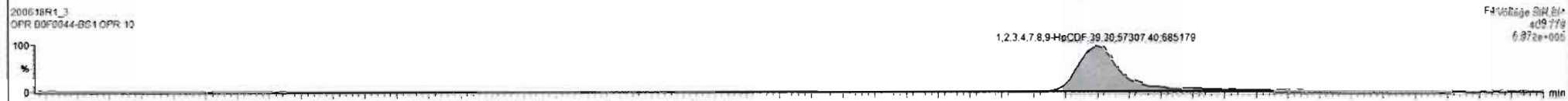


TargetLynx - 200618R1_3.d - Chromatogram

File Edit View Display Processing Window Help

200618R1_3 B0F0044 BS1 OPR 10 OPR

#	Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.31e4	0.76	NO	0.89	10.000	26.50	1.001	19.3		0.199	19.3
2	1,2,3,7,8-PeCDD	2.40e5	0.63	NO	0.91	10.000	31.45	1.000	101		0.242	101
3	1,2,3,4,7,8-HxCDD	1.83e5	1.24	NO	1.03	10.000	34.83	1.000	109		0.521	109
4	1,2,3,6,7,8-HxCDD	2.49e5	1.26	NO	0.89	10.000	34.93	1.000	105		0.503	105
5	1,2,3,7,8,9-HxCDD	1.95e5	1.25	NO	0.89	10.000	35.22	1.001	101		0.283	101
6	1,2,3,4,6,7,8-HpCDD	1.25e5	1.05	NO	0.86	10.000	38.76	1.001	96.6		0.671	96.6
7	OCDD	2.03e5	0.89	NO	0.91	10.000	41.74	1.000	200		1.02	200
8	2,3,7,8-TCDF	7.42e4	0.72	NO	0.75	10.000	25.60	1.001	19.7		0.0782	19.7
9	1,2,3,7,8-PeCDF	3.81e5	1.57	NO	0.89	10.000	30.17	1.001	101		0.347	101
10	2,3,4,7,8-PeCDF	3.81e5	1.55	NO	0.93	10.000	31.15	1.000	101		0.318	101
11	1,2,3,4,7,8-HxCDF	2.07e5	1.20	NO	0.88	10.000	33.95	1.000	99.0		0.630	99.0
12	1,2,3,6,7,8-HxCDF	2.67e5	1.21	NO	0.89	10.000	34.08	1.001	99.6		0.558	99.6
13	2,3,4,6,7,8-HxCDF	2.33e5	1.16	NO	0.93	10.000	34.65	1.000	98.4		0.643	98.4
14	1,2,3,7,8,9-HxCDF	1.73e5	1.21	NO	0.87	10.000	35.58	1.001	98.4		1.10	98.4
15	1,2,3,4,6,7,8-HpCDF	1.42e5	0.95	NO	0.87	10.000	37.35	1.000	95.3		0.737	95.3
16	1,2,3,4,7,8,9-HpCDF	1.11e5	0.95	NO	1.01	10.000	39.30	1.000	95.3		0.557	95.3
17	OCDF	2.19e5	0.83	NO	0.81	10.000	41.93	1.000	202		0.996	202
18	13C-2,3,7,8-TCDD	7.37e5	0.78	NO	1.16	10.000	25.47	1.026	175	87.5	0.301	
19	13C-1,2,3,7,8-PeCDD	5.24e5	0.64	NO	0.85	10.000	31.44	1.218	169	84.7	0.699	
20	13C-1,2,3,4,7,8-HxCDD	3.26e5	1.26	NO	0.78	10.000	34.81	1.014	121	65.5	0.747	
21	13C-1,2,3,6,7,8-HxCDD	5.31e5	1.20	NO	1.02	10.000	34.92	1.017	164	81.8	0.573	

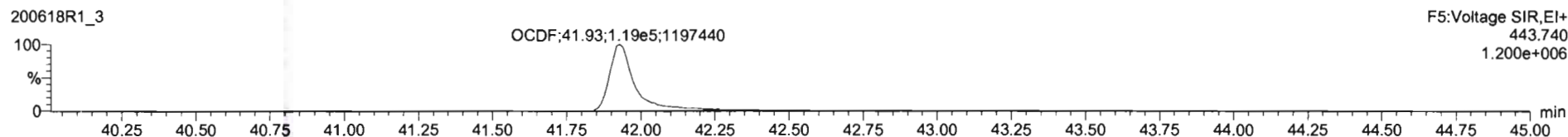
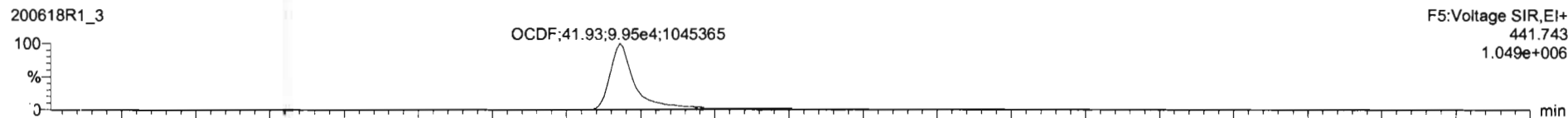


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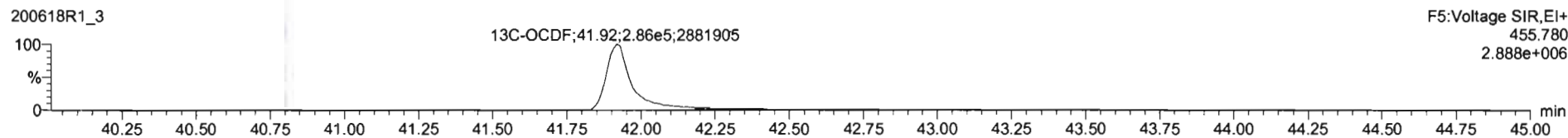
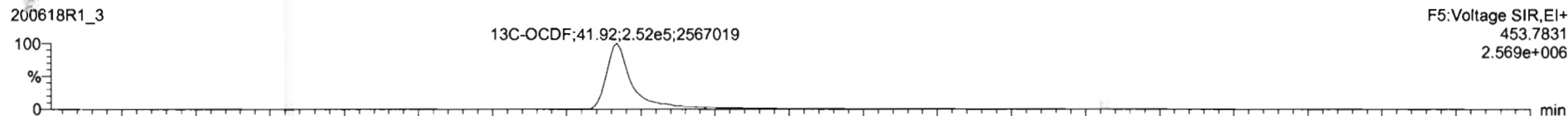
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Printed: Thursday, June 18, 2020 15:25:59 Pacific Daylight Time

Name: 200618R1_3, Date: 18-Jun-2020, Time: 14:39:07, ID: B0F0044-BS1 OPR 10, Description: OPR

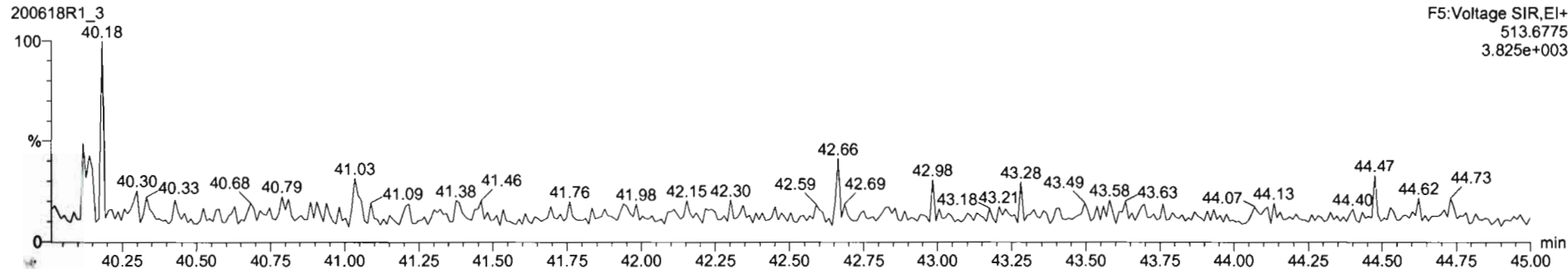
OCDF



13C-OCDF



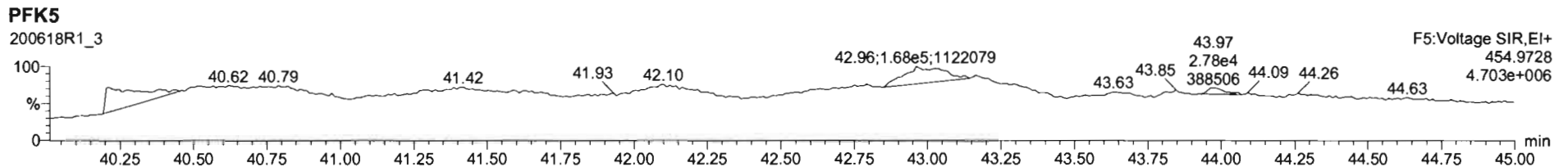
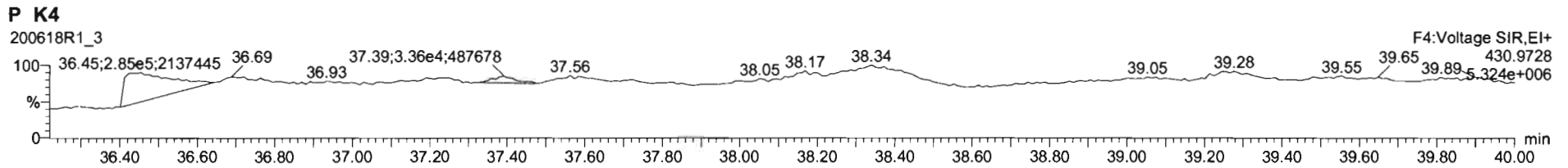
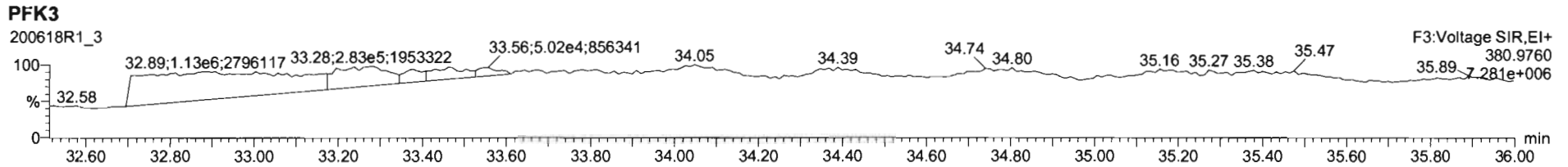
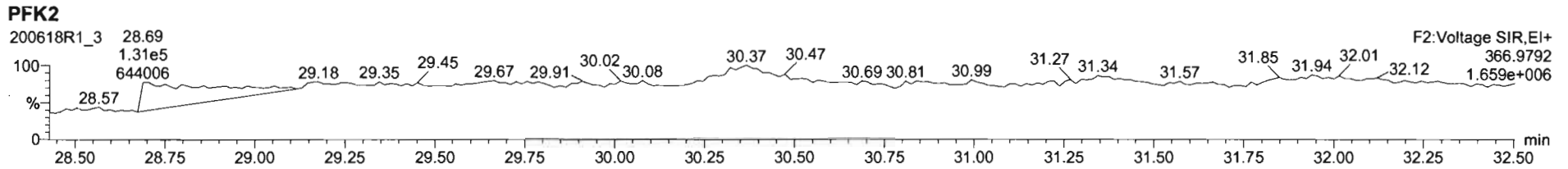
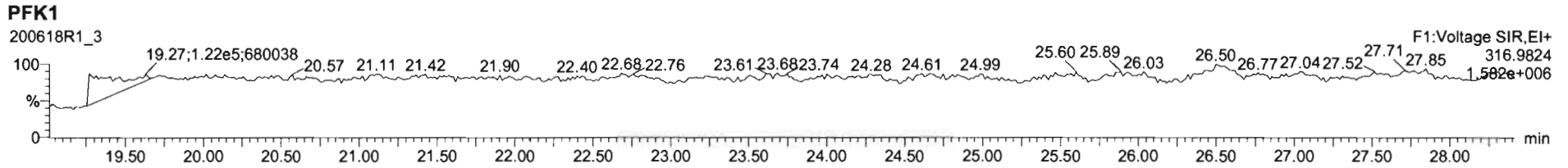
DPE5



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Dataset: U:\VG12.PRO\Results\200603R1\200603R1-5.qld

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HN 06/05/2020

CT 06/05/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_5, Date: 03-Jun-2020, Time: 11:13:04, ID: 2000965-01 PDI-150SC-A-00-01-200425 11.87, Description: PDI-150SC-A-00-01-200425

#	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												0.0679	
2	2 1,2,3,7,8-PeCDD			NO	0.908	9.958	31.473		1.001				0.0917	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	9.958	34.836		1.000				0.129	
4	4 1,2,3,6,7,8-HxCDD	9.29e2	1.31	NO	0.892	9.958	34.932	34.95	1.000	1.001	0.38966		0.143	0.390
5	5 1,2,3,7,8,9-HxCDD	3.71e2	0.95	YES	0.887	9.958	35.220	35.24	1.000	1.001	0.17965		0.161	0.158
6	6 1,2,3,4,6,7,8-HpCDD	1.32e4	1.01	NO	0.864	9.958	38.757	38.76	1.000	1.000	10.480		0.247	10.5
7	7 OCDD	1.18e5	0.90	NO	0.914	9.958	41.716	41.73	1.000	1.000	101.20		0.198	101
8	8 2,3,7,8-TCDF	1.67e3	0.82	NO	0.751	9.958	25.612	25.61	1.001	1.001	0.39971		0.0611	0.400
9	9 1,2,3,7,8-PeCDF	6.23e3	1.58	NO	0.893	9.958	30.190	30.18	1.001	1.000	1.4775		0.0715	1.48
10	10 2,3,4,7,8-PeCDF	3.22e3	1.82	YES	0.935	9.958	31.177	31.18	1.001	1.001	0.76881		0.0662	0.691
11	11 1,2,3,4,7,8-HxCDF	5.04e3	1.13	NO	0.884	9.958	33.952	33.96	1.000	1.000	2.1908		0.0916	2.19
12	12 1,2,3,6,7,8-HxCDF	1.87e3	1.24	NO	0.889	9.958	34.079	34.08	1.000	1.000	0.67357		0.0762	0.674
13	13 2,3,4,6,7,8-HxCDF	6.62e2	1.22	NO	0.934	9.958	34.690	34.68	1.001	1.001	0.24835		0.0823	0.248
14	14 1,2,3,7,8,9-HxCDF	2.54e2	0.40	YES	0.871	9.958	35.571	35.59	1.000	1.001	0.13419		0.127	0.0689
15	15 1,2,3,4,6,7,8-HpCDF	3.09e3	0.89	NO	0.873	9.958	37.376	37.36	1.001	1.001	1.9562		0.118	1.96
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	9.958	39.288		1.000				0.136	
17	17 OCDF	5.25e3	0.83	NO	0.806	9.958	41.908	41.92	1.000	1.000	4.2209		0.126	4.22
18	18 13C-2,3,7,8-TCDD	9.02e5	0.78	NO	1.16	9.958	26.522	26.48	1.026	1.025	208.21	104	0.234	
19	19 13C-1,2,3,7,8-PeCDD	6.19e5	0.63	NO	0.849	9.958	31.711	31.45	1.227	1.217	194.63	96.9	0.318	
20	20 13C-1,2,3,4,7,8-HxCDD	4.40e5	1.29	NO	0.779	9.958	34.830	34.83	1.014	1.014	212.06	106	0.508	
21	21 13C-1,2,3,6,7,8-HxCDD	5.37e5	1.29	NO	1.02	9.958	34.944	34.93	1.017	1.017	198.03	98.6	0.389	
22	22 13C-1,2,3,7,8,9-HxCDD	4.68e5	1.33	NO	0.903	9.958	35.215	35.21	1.025	1.025	194.38	96.8	0.439	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.93e5	1.05	NO	0.689	9.958	38.739	38.74	1.128	1.128	159.37	79.3	0.502	
24	24 13C-OCDD	5.11e5	0.89	NO	0.652	9.958	41.761	41.72	1.216	1.215	293.70	73.1	0.628	
25	25 13C-2,3,7,8-TCDF	1.12e6	0.76	NO	1.06	9.958	25.564	25.59	0.989	0.990	188.38	93.8	0.296	
26	26 13C-1,2,3,7,8-PeCDF	9.48e5	1.57	NO	0.838	9.958	30.093	30.17	1.165	1.168	202.31	101	0.541	
27	27 13C-2,3,4,7,8-PeCDF	9.05e5	1.58	NO	0.817	9.958	31.047	31.15	1.202	1.205	198.16	98.7	0.555	
28	28 13C-1,2,3,4,7,8-HxCDF	5.23e5	0.51	NO	1.01	9.958	33.961	33.95	0.989	0.989	194.70	96.9	0.650	
29	29 13C-1,2,3,6,7,8-HxCDF	6.28e5	0.50	NO	1.17	9.958	34.085	34.07	0.992	0.992	201.86	101	0.561	
30	30 13C-2,3,4,6,7,8-HxCDF	5.73e5	0.52	NO	1.02	9.958	34.659	34.65	1.009	1.009	210.49	105	0.641	
31	31 13C-1,2,3,7,8,9-HxCDF	4.36e5	0.51	NO	0.860	9.958	35.558	35.57	1.035	1.036	190.39	94.8	0.762	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-5.qld

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Printed: Friday, June 05, 2020 2:18:02 PM Pacific Daylight Time

Name: 200603R1_5, Date: 03-Jun-2020, Time: 11:13:04, ID: 2000965-01 PDI-150SC-A-00-01-200425 11.87, Description: PDI-150SC-A-00-01-200425

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.63e5	0.42	NO	0.774	9.958	37.307	37.34	1.086	1.087	175.82	87.5	0.669	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.40e5	0.43	NO	0.521	9.958	39.336	39.29	1.145	1.144	172.52	85.9	0.995	
34	34 13C-OCDF	6.20e5	0.89	NO	0.746	9.958	41.933	41.91	1.221	1.220	311.76	77.6	0.491	
35	35 37Cl-2,3,7,8-TCDD	3.04e5			1.04	9.958	26.553	26.51	1.028	1.026	78.318	97.5	0.0734	
36	36 13C-1,2,3,4-TCDD	7.53e5	0.79	NO	1.00	9.958	25.890	25.84	1.000	1.000	200.84	100	0.271	
37	37 13C-1,2,3,4-TCDF	1.12e6	0.78	NO	1.00	9.958	24.360	24.15	1.000	1.000	200.84	100	0.314	
38	38 13C-1,2,3,4,6,9-HxCDF	5.35e5	0.50	NO	1.00	9.958	34.420	34.35	1.000	1.000	200.84	100	0.655	
39	39 Total Tetra-Dioxins				0.888	9.958	24.620		0.000		0.21419		0.0679	0.214
40	40 Total Penta-Dioxins				0.908	9.958	29.960		0.000		0.24322		0.0917	0.243
41	41 Total Hexa-Dioxins				0.892	9.958	33.635		0.000		3.3485		0.150	3.51
42	42 Total Hepta-Dioxins				0.864	9.958	37.640		0.000		23.987		0.247	24.0
43	43 Total Tetra-Furans				0.751	9.958	23.610		0.000		1.0092		0.0611	1.05
44	44 1st Func. Penta-Furans				0.893	9.958	27.580		0.000		1.0755		0.0220	1.08
45	45 Total Penta-Furans				0.893	9.958	29.275		0.000		2.9126		0.0704	3.60
46	46 Total Hexa-Furans				0.934	9.958	33.555		0.000		5.2327		0.0879	5.71
47	47 Total Hepta-Furans				0.873	9.958	37.835		0.000		5.8908		0.134	5.89

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-5.qld

Last Altered: Friday, June 05, 2020 2:16:12 PM Pacific Daylight Time

Printed: Friday, June 05, 2020 2:18:02 PM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_5, Date: 03-Jun-2020, Time: 11:13:04, ID: 2000965-01 PDI-150SC-A-00-01-200425 11.87, Description: PDI-150SC-A-00-01-200425

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	26.23	5.623e3	6.542e3	3.671e2	4.876e2	0.75	NO	8.547e2	0.21419	0.21419	0.0679

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.22	4.000e3	7.055e3	2.555e2	4.254e2	0.60	NO	6.809e2	0.24322	0.24322	0.0917

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	3.185e4	3.017e4	1.653e3	1.336e3	1.24	NO	2.990e3	1.3973	1.3973	0.150
2	Total Hexa-Dioxins	34.14	3.397e4	2.485e4	1.923e3	1.418e3	1.36	NO	3.341e3	1.5615	1.5615	0.150
3	1,2,3,6,7,8-HxCDD	34.95	9.167e3	7.368e3	5.276e2	4.015e2	1.31	NO	9.291e2	0.38966	0.38966	0.143
4	1,2,3,7,8,9-HxCDD	35.24	4.954e3	5.709e3	1.810e2	1.901e2	0.95	YES	3.711e2	0.00000	0.15829	0.161

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.74	1.110e5	1.116e5	8.249e3	8.761e3	0.94	NO	1.701e4	13.507	13.507	0.247
2	1,2,3,4,6,7,8-HpCDD	38.76	9.550e4	9.776e4	6.635e3	6.564e3	1.01	NO	1.320e4	10.480	10.480	0.247

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	1.205e3	2.190e3	6.622e1	1.448e2	0.46	YES	0.000e0	0.00000	0.036482	0.0611
2	Total Tetra-Furans	21.50	5.422e3	7.749e3	4.955e2	6.906e2	0.72	NO	1.186e3	0.28428	0.28428	0.0611
3	Total Tetra-Furans	24.66	7.045e3	1.061e4	5.846e2	7.722e2	0.76	NO	1.357e3	0.32520	0.32520	0.0611
4	2,3,7,8-TCDF	25.61	9.489e3	1.315e4	7.538e2	9.139e2	0.82	NO	1.668e3	0.39971	0.39971	0.0611

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-5.qld

Last Altered: Friday, June 05, 2020 2:16:12 PM Pacific Daylight Time

Printed: Friday, June 05, 2020 2:18:02 PM Pacific Daylight Time

Name: 200603R1_5, Date: 03-Jun-2020, Time: 11:13:04, ID: 2000965-01 PDI-150SC-A-00-01-200425 11.87, Description: PDI-150SC-A-00-01-200425

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	27.59	4.202e4	3.062e4	2.689e3	1.740e3	1.55	NO	4.429e3	1.0755	1.0755	0.0220

Penta-Furans

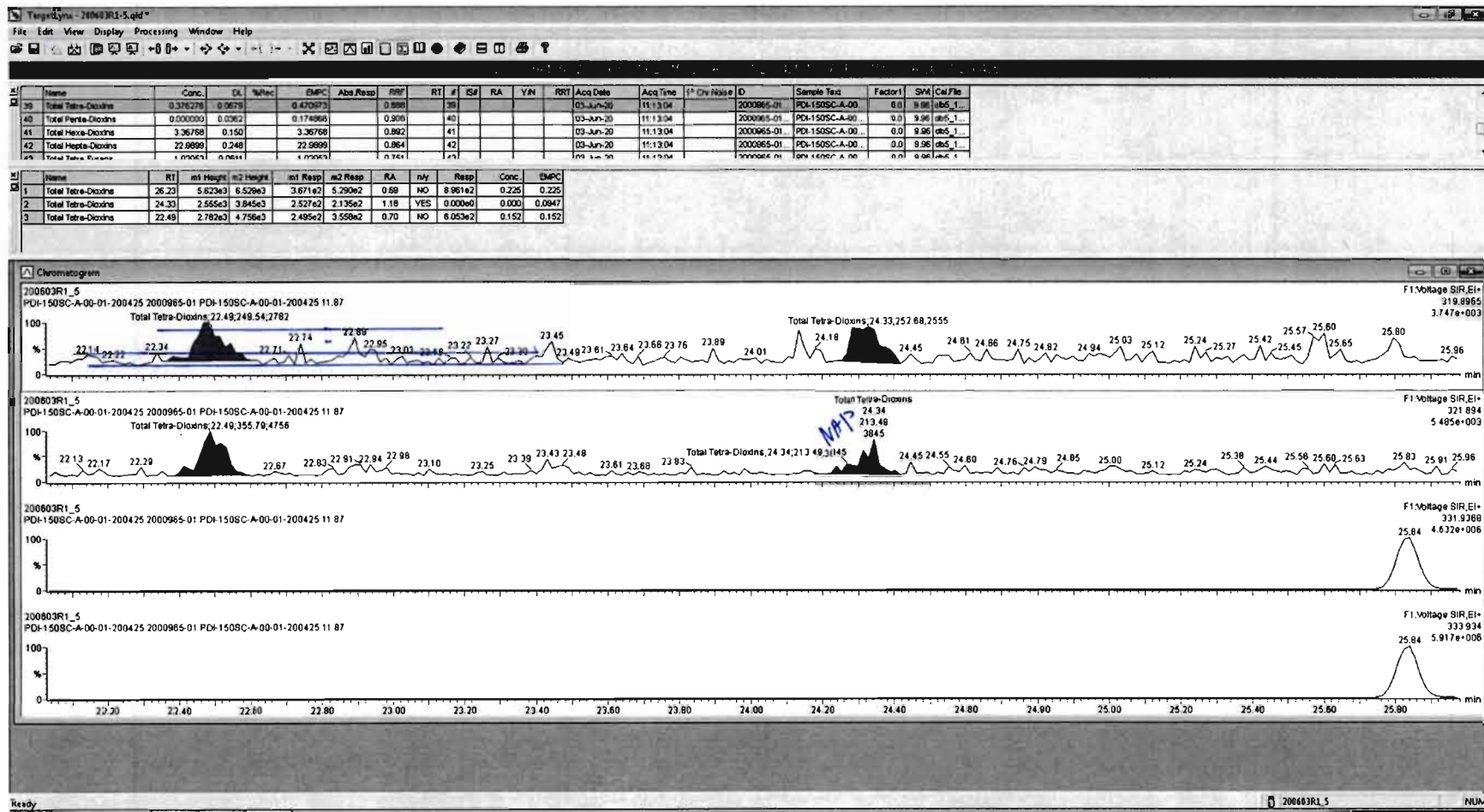
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.21	3.788e4	2.566e4	2.517e3	1.618e3	1.56	NO	4.135e3	1.0042	1.0042	0.0704
2	1,2,3,7,8-PeCDF	30.18	6.691e4	3.741e4	3.814e3	2.413e3	1.58	NO	6.226e3	1.4775	1.4775	0.0715
3	Total Penta-Furans	30.44	2.204e4	1.401e4	1.033e3	7.415e2	1.39	NO	1.774e3	0.43082	0.43082	0.0704
4	2,3,4,7,8-PeCDF	31.18	2.983e4	1.526e4	2.076e3	1.141e3	1.82	YES	3.217e3	0.00000	0.69072	0.0662

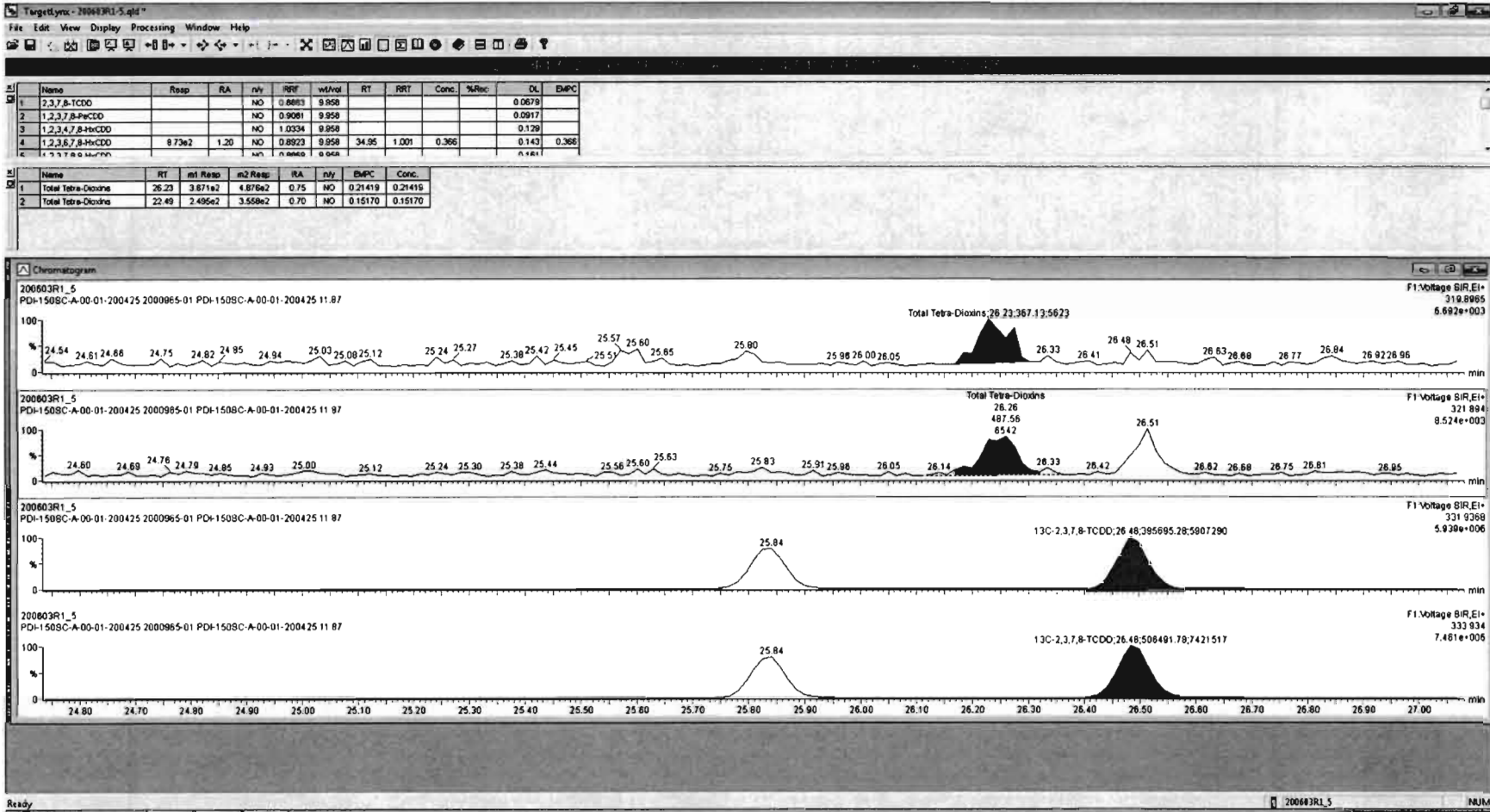
Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	1.067e4	7.449e3	5.304e2	3.542e2	1.50	YES	0.000e0	0.00000	0.31583	0.0879
2	Total Hexa-Furans	32.95	2.661e4	1.880e4	1.342e3	1.058e3	1.27	NO	2.399e3	0.95508	0.95508	0.0879
3	Total Hexa-Furans	33.49	3.002e4	2.705e4	1.576e3	1.351e3	1.17	NO	2.926e3	1.1649	1.1649	0.0879
4	1,2,3,4,7,8-HxCDF	33.96	4.604e4	4.440e4	2.677e3	2.368e3	1.13	NO	5.045e3	2.1908	2.1908	0.0916
5	1,2,3,6,7,8-HxCDF	34.08	1.916e4	1.333e4	1.036e3	8.366e2	1.24	NO	1.873e3	0.67357	0.67357	0.0762
6	2,3,4,6,7,8-HxCDF	34.68	6.717e3	5.965e3	3.641e2	2.981e2	1.22	NO	6.623e2	0.24835	0.24835	0.0823
7	1,2,3,7,8,9-HxCDF	35.59	3.152e3	5.045e3	7.212e1	1.817e2	0.40	YES	2.538e2	0.00000	0.068887	0.127
8	Total Hexa-Furans	35.63	5.340e3	5.135e3	2.141e2	1.088e2	1.97	YES	0.000e0	0.00000	0.096994	0.0879

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	37.36	2.056e4	2.177e4	1.455e3	1.633e3	0.89	NO	3.088e3	1.9562	1.9562	0.118
2	Total Hepta-Furans	37.96	3.396e4	3.446e4	2.647e3	2.509e3	1.06	NO	5.155e3	3.9346	3.9346	0.134





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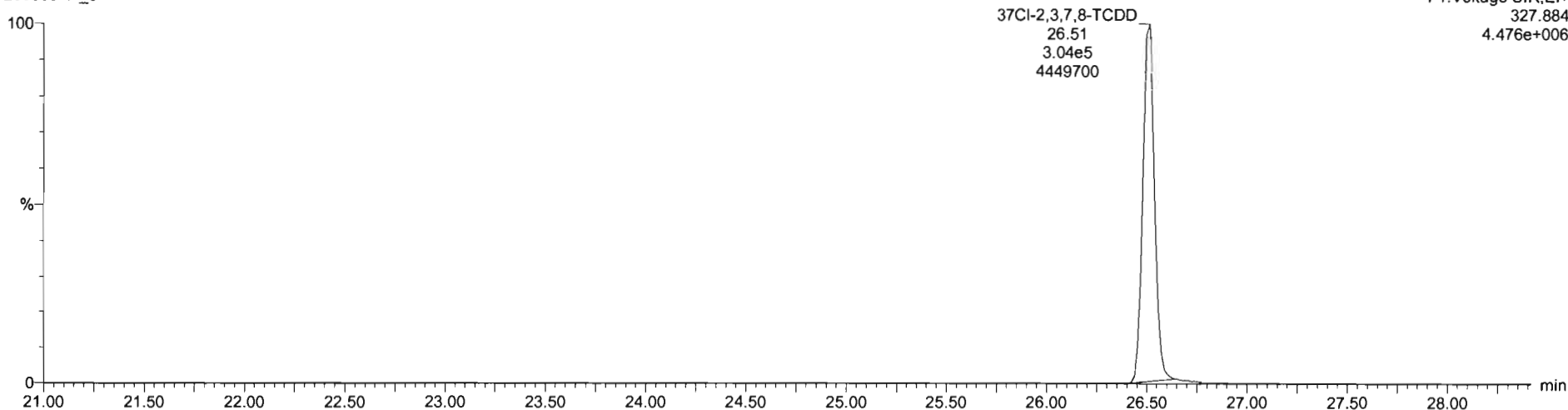
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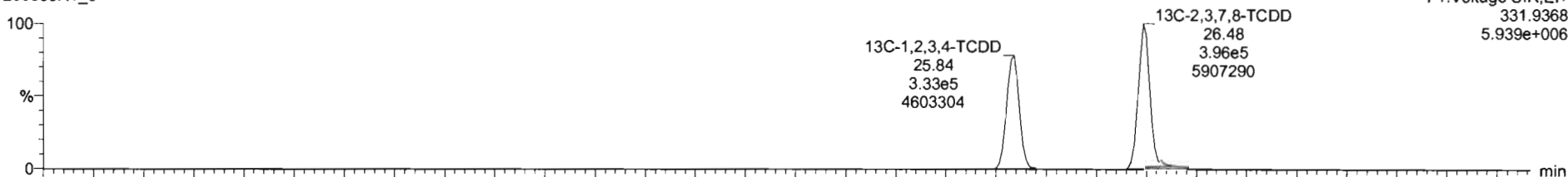
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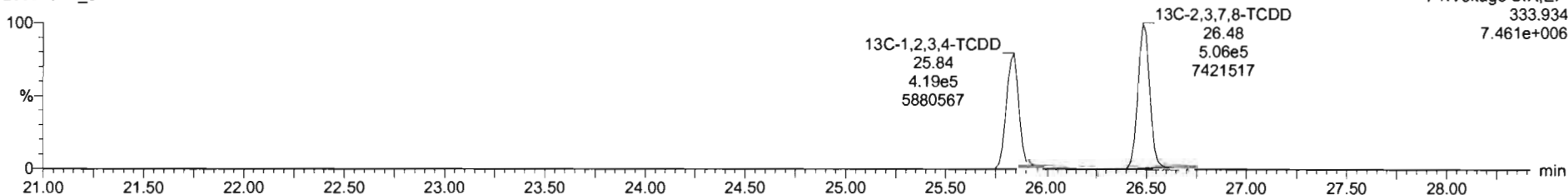


13C-1,2,3,4-TCDD

200603R1_5



200603R1_5



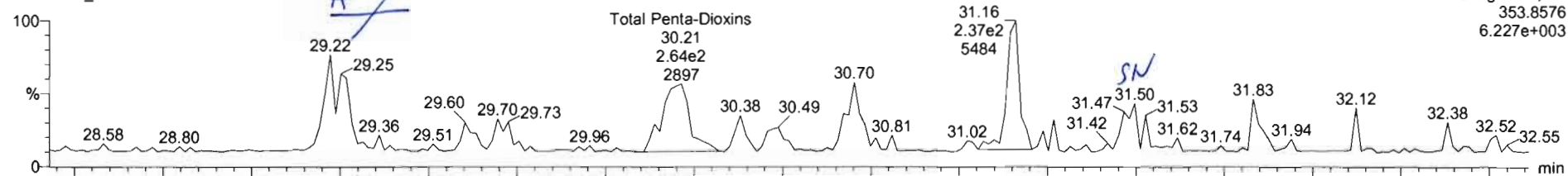
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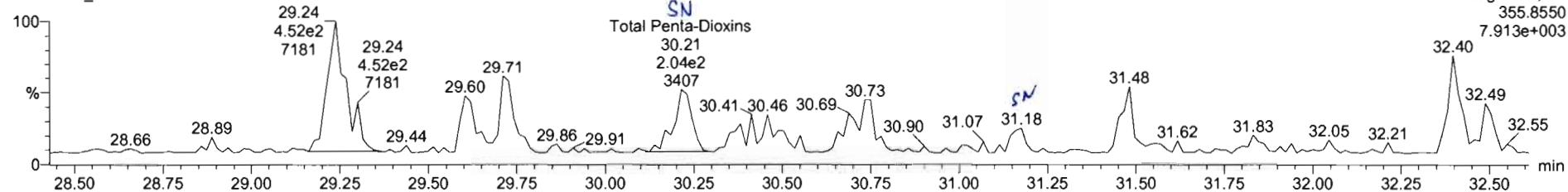
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1,2,3,7,8-PeCDD

200603R1_5

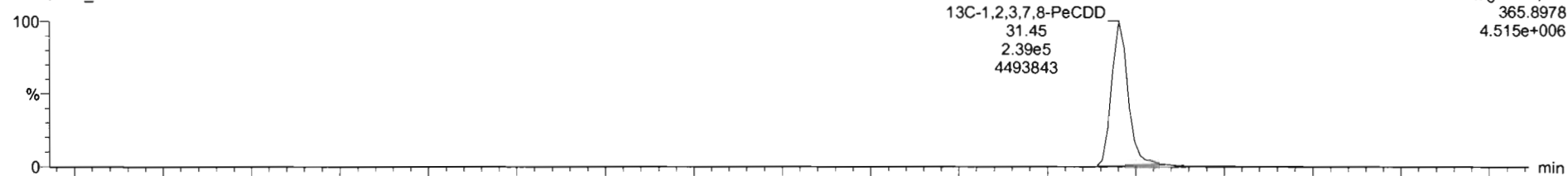


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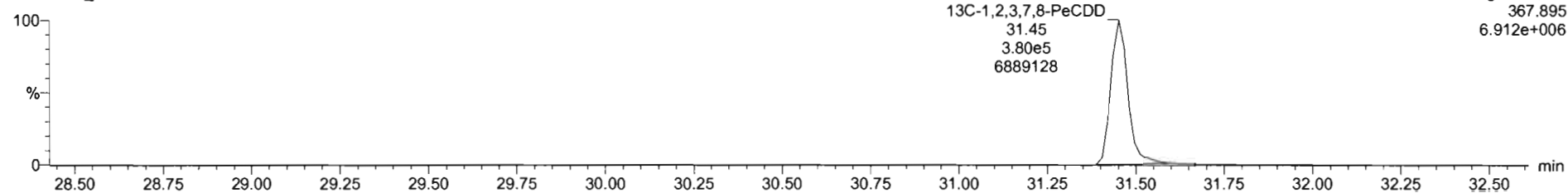


13C-1,2,3,7,8-PeCDD

200603R1_5



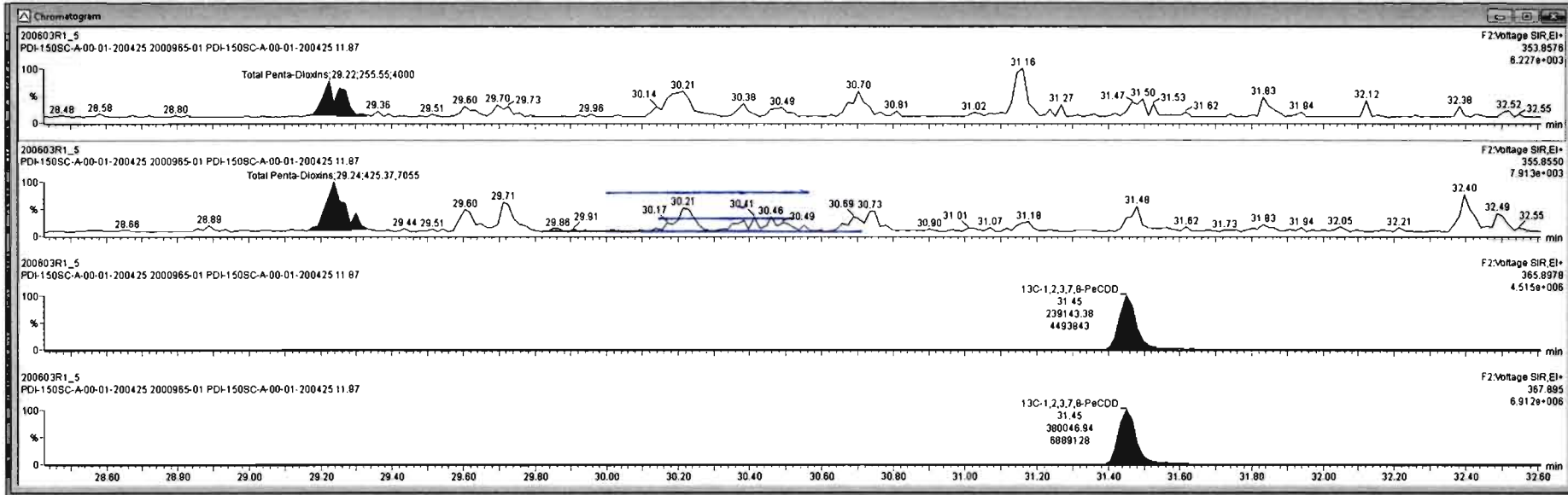
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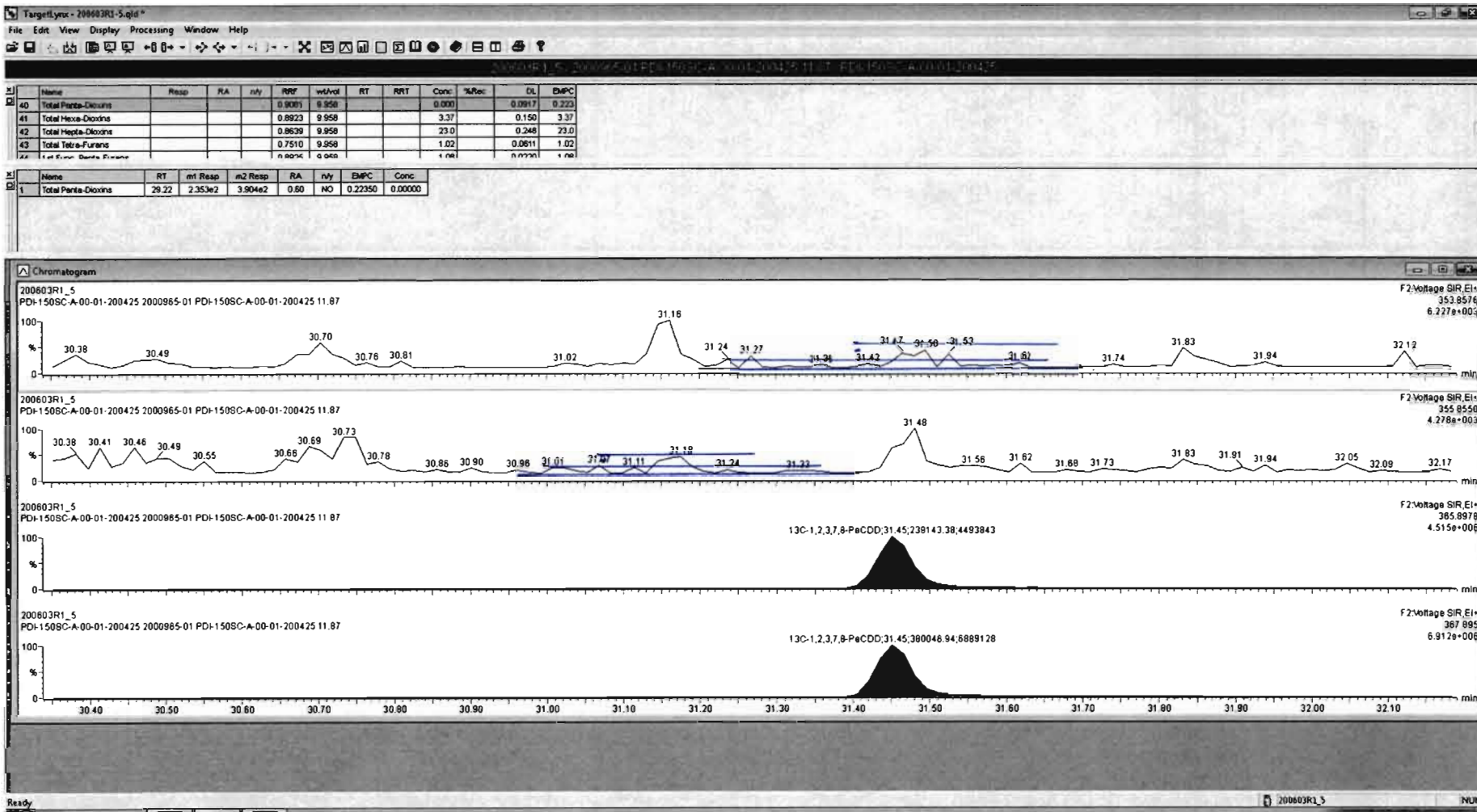
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 File Edit View Display Processing Window Help

Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.8081	9.958			0.243	0.0917	0.243	
41 Total Hexa-Dioxins				0.8923	9.958			2.96	0.150	3.12	
42 Total Hepta-Dioxins				0.8638	9.958			24.0	0.247	24.0	
43 Total Tetra-Furans				0.7510	9.958			1.01	0.0611	1.05	
44 1st Func. Penta-Furans				0.8925	9.958			1.08	0.0220	1.08	
45 Total Penta-Furans				0.8925	9.958			2.91	0.0704	3.60	
46 Total Hexa-Furans				0.9341	9.958			5.23	0.0879	5.55	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	29.22	2.555e2	4.254e2	0.80	NO	0.24322	0.24322



Ready 200603R1_5 NUM



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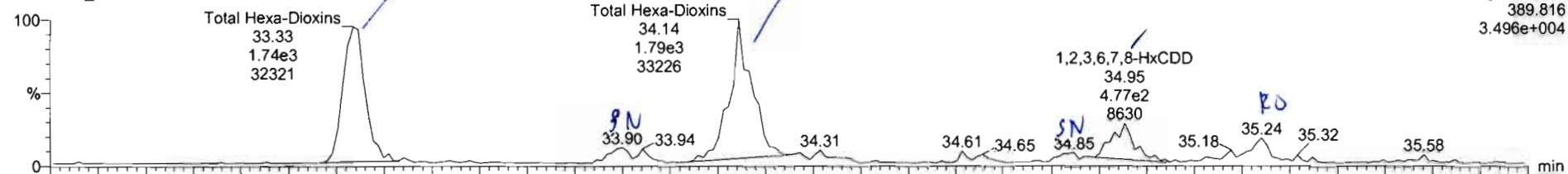
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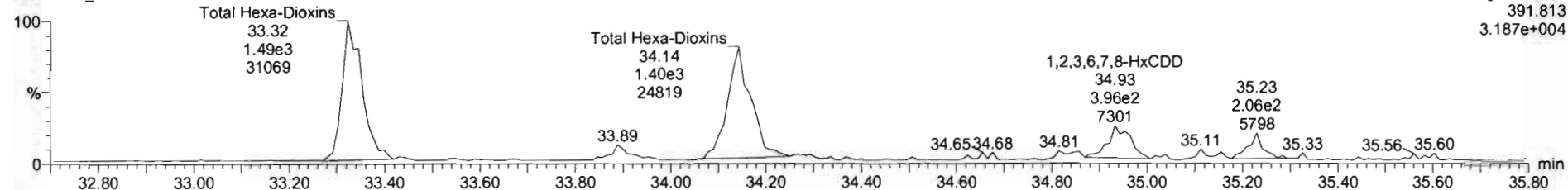
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1,2,3,4,7,8-HxCDD

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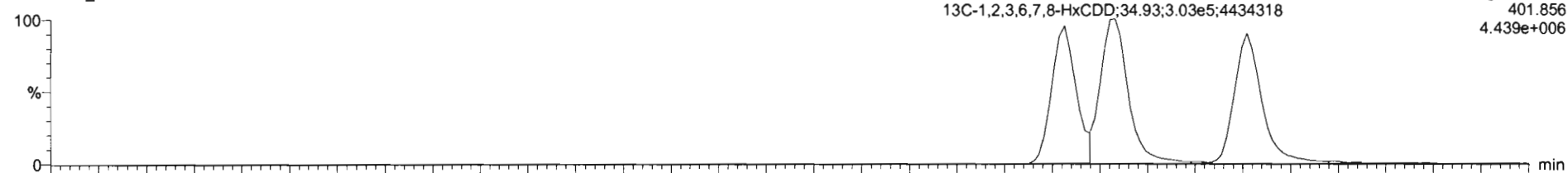


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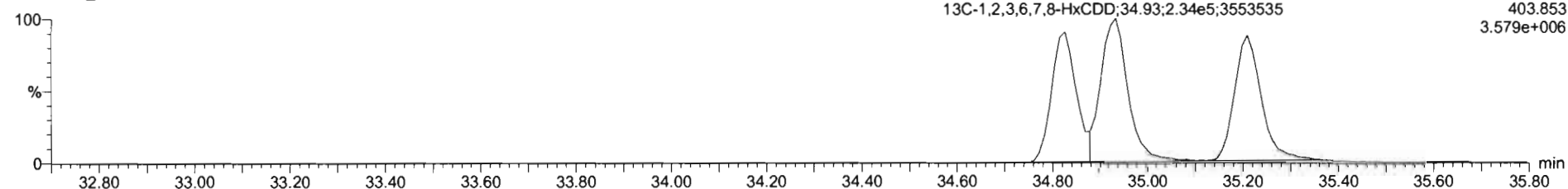


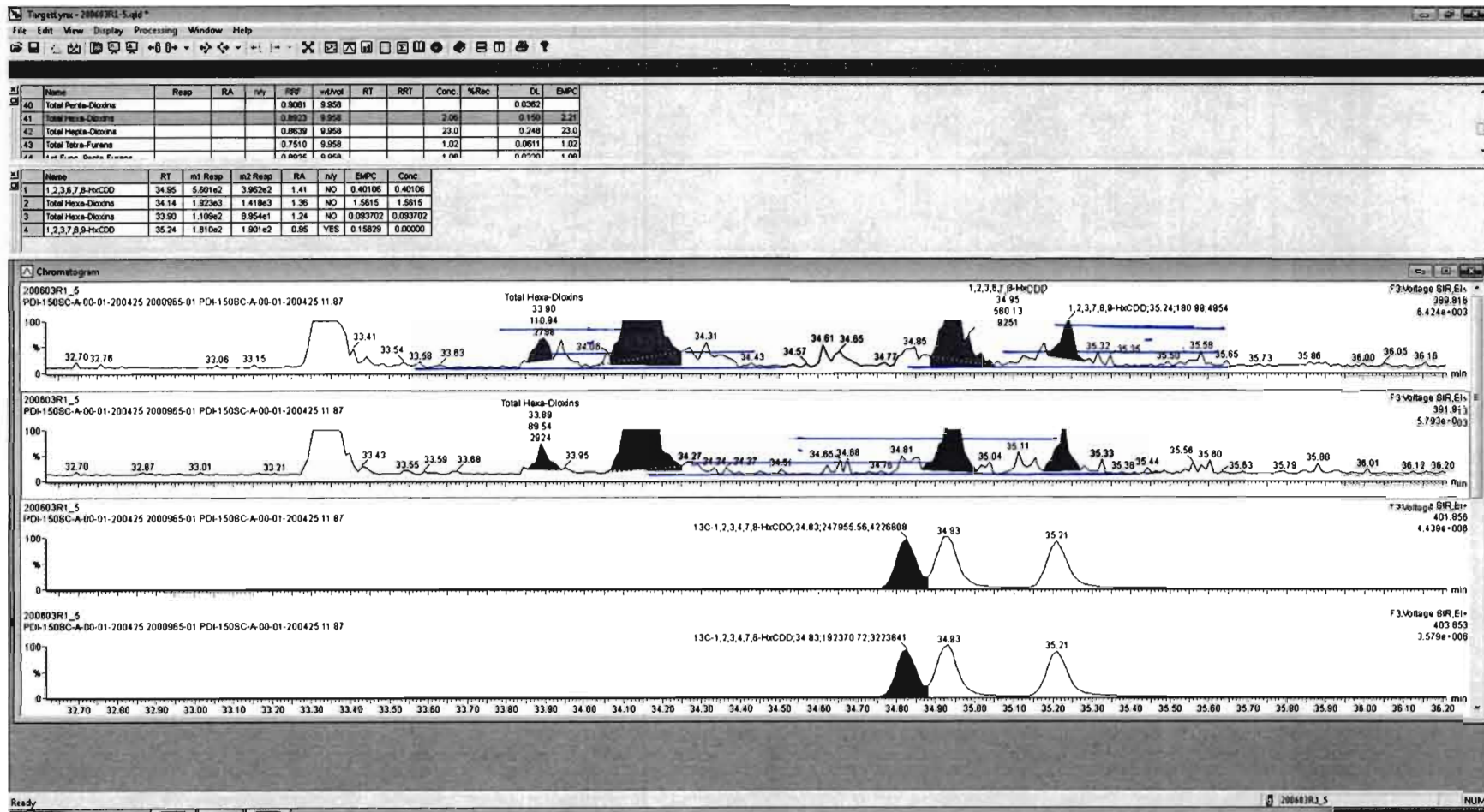
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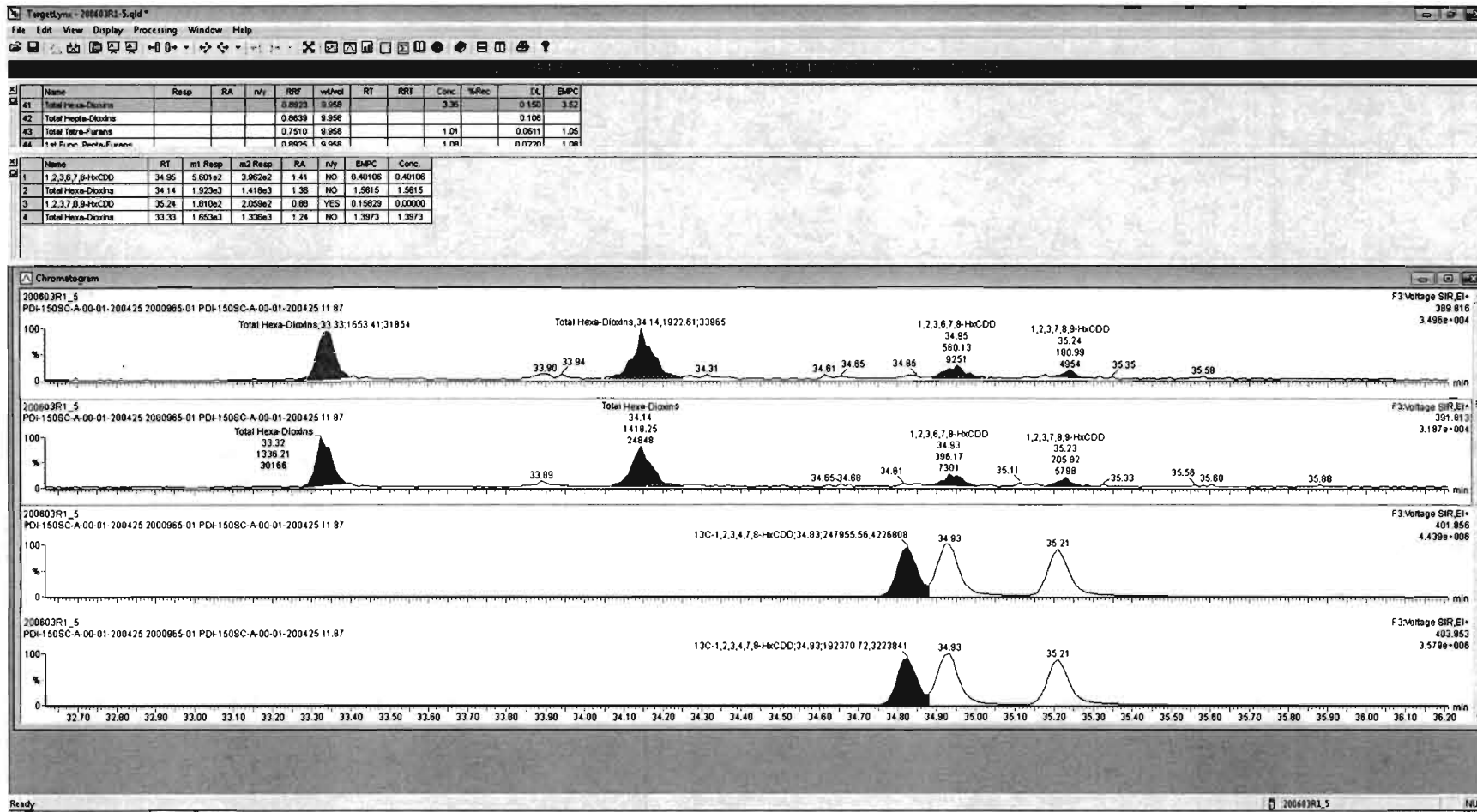
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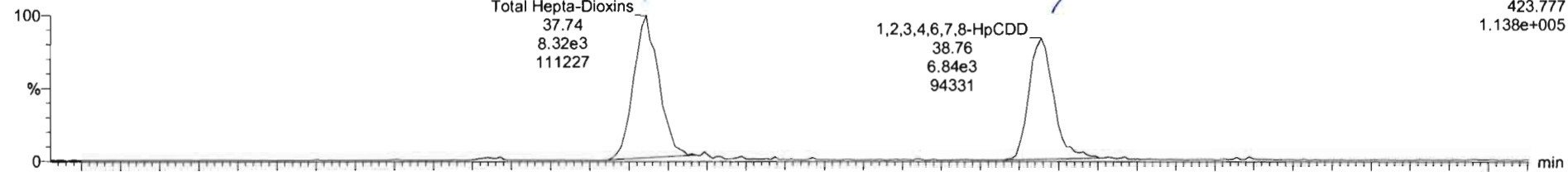
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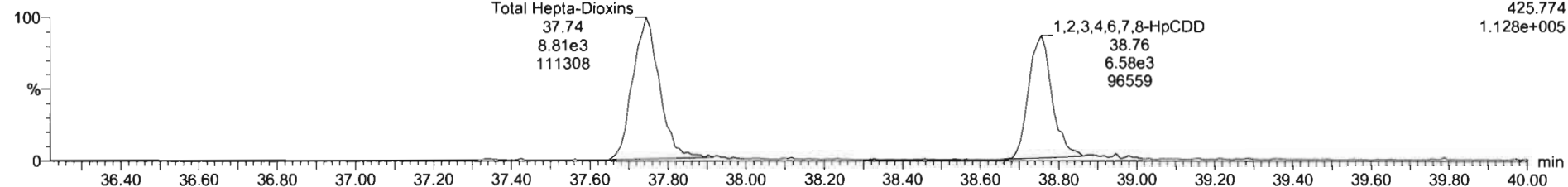
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1,2,3,4,6,7,8-HpCDD

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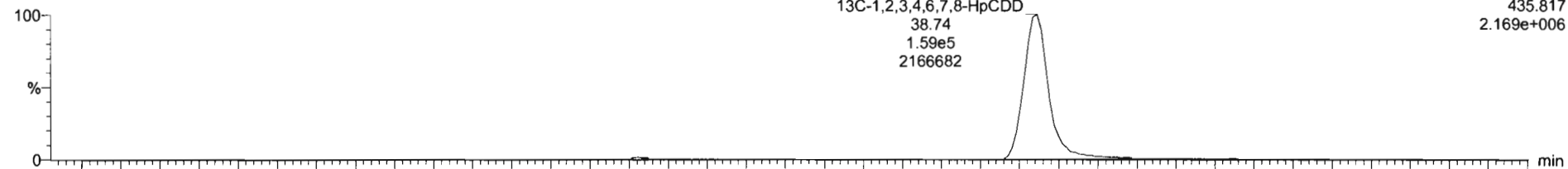


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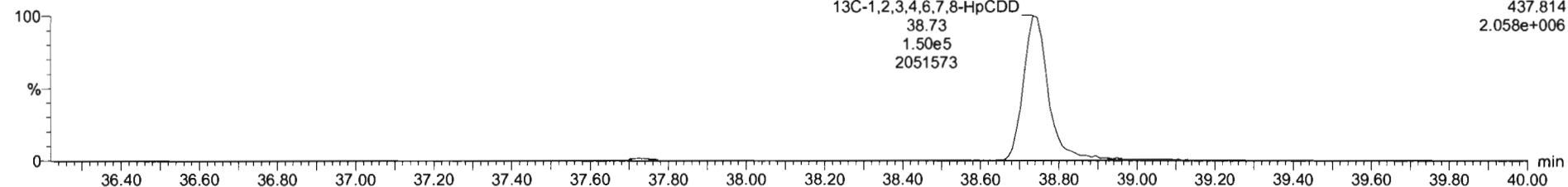


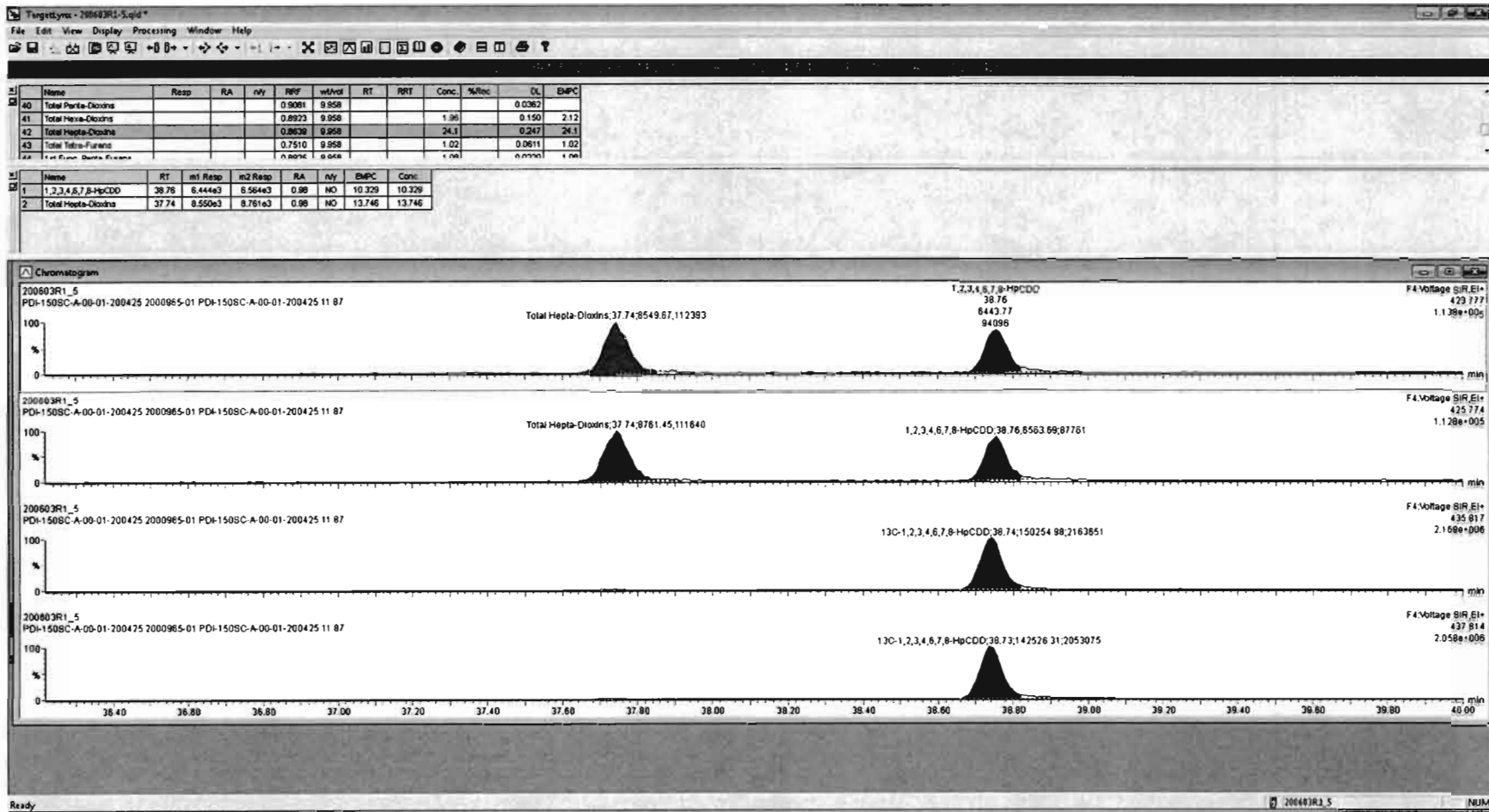
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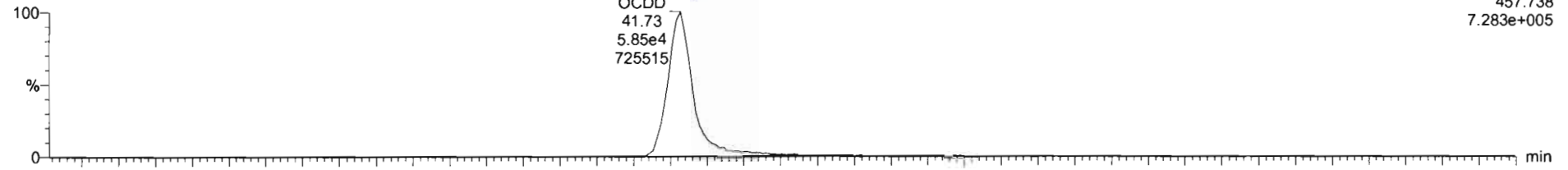
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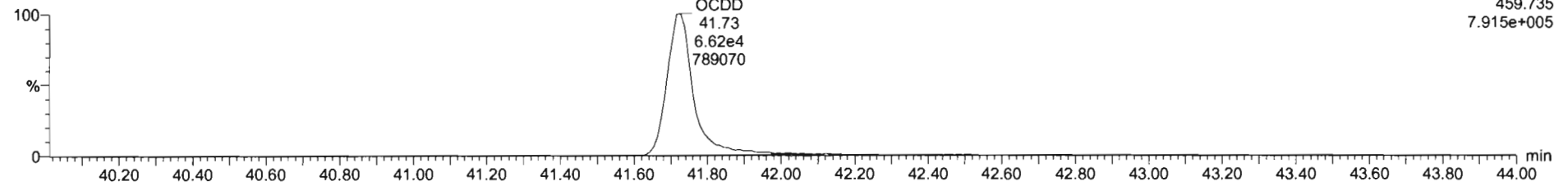
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OCDD

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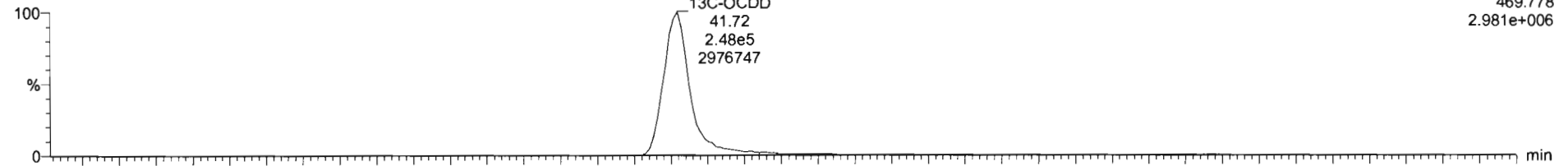


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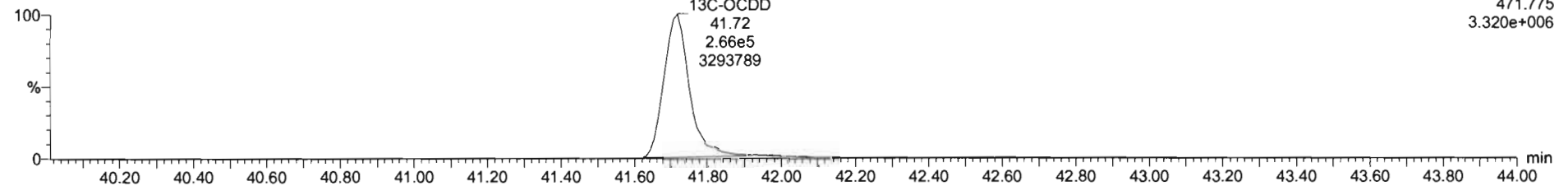


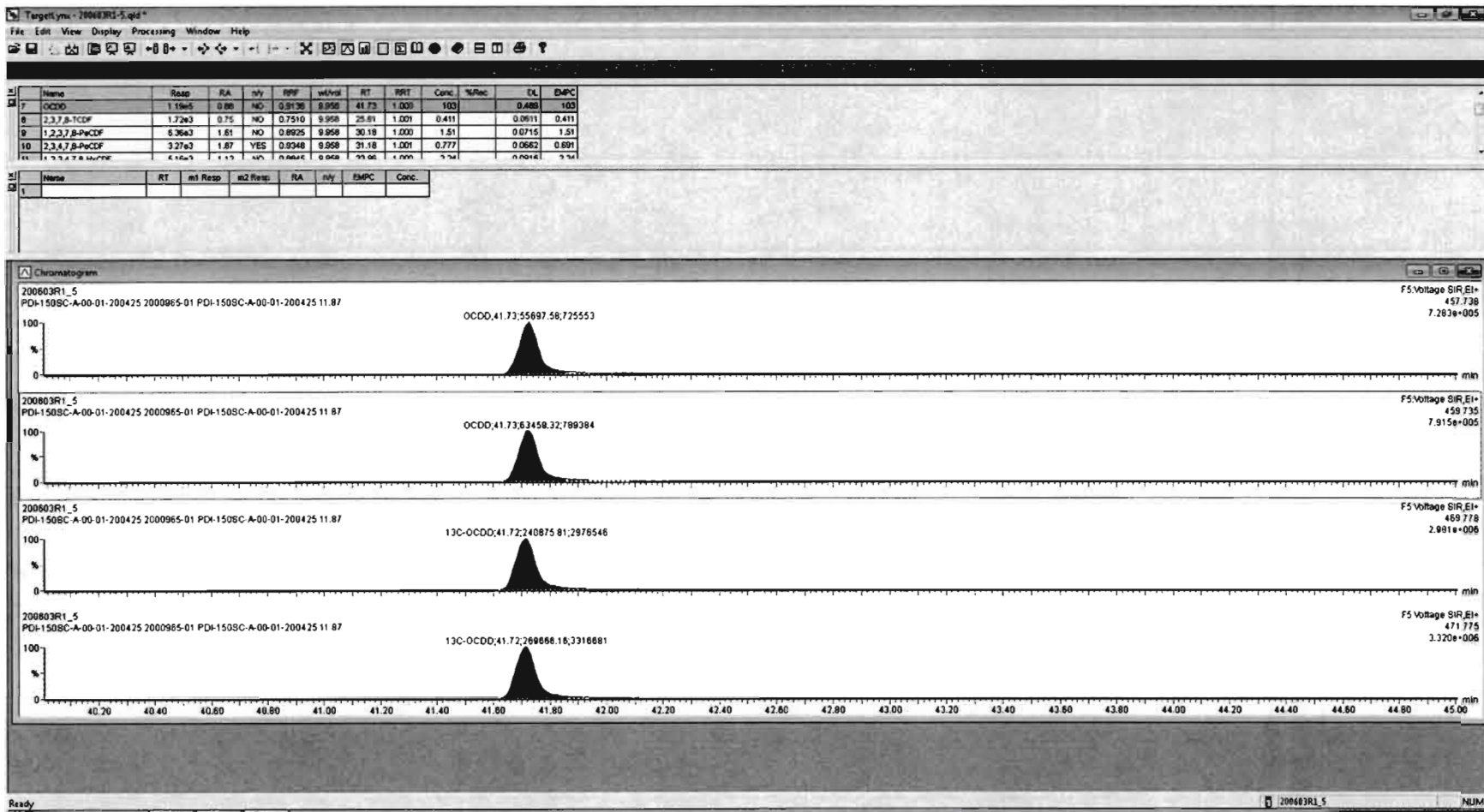
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200603R1_5



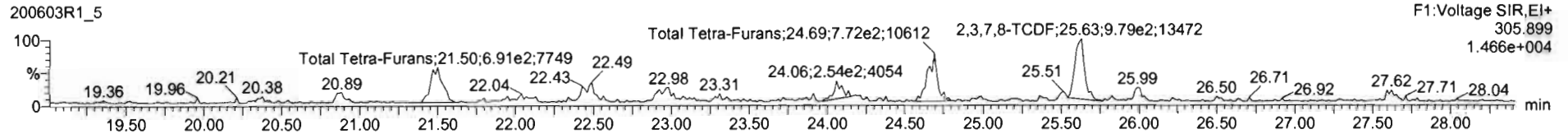
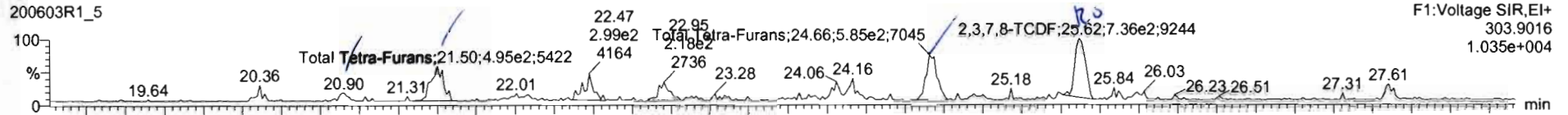


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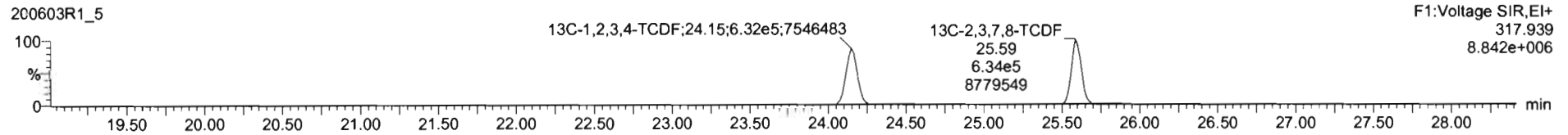
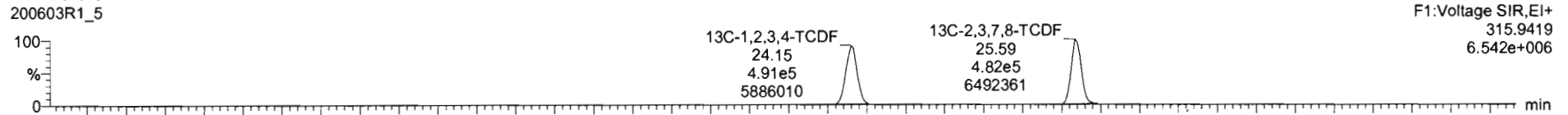
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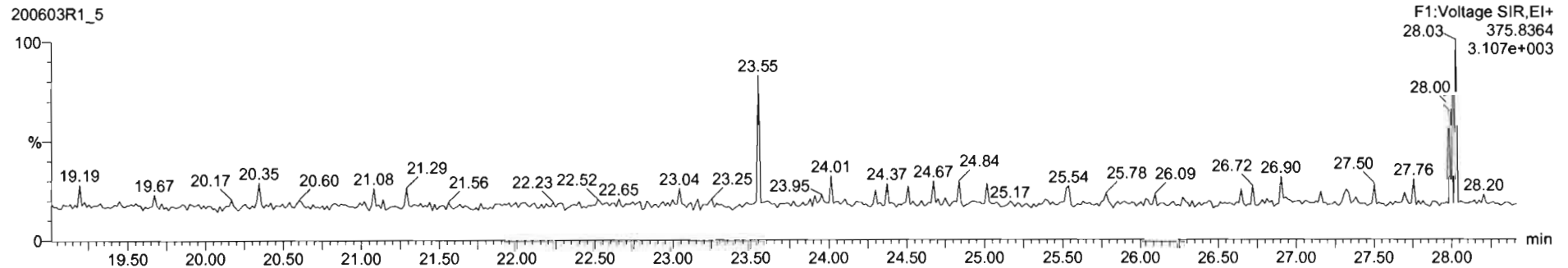
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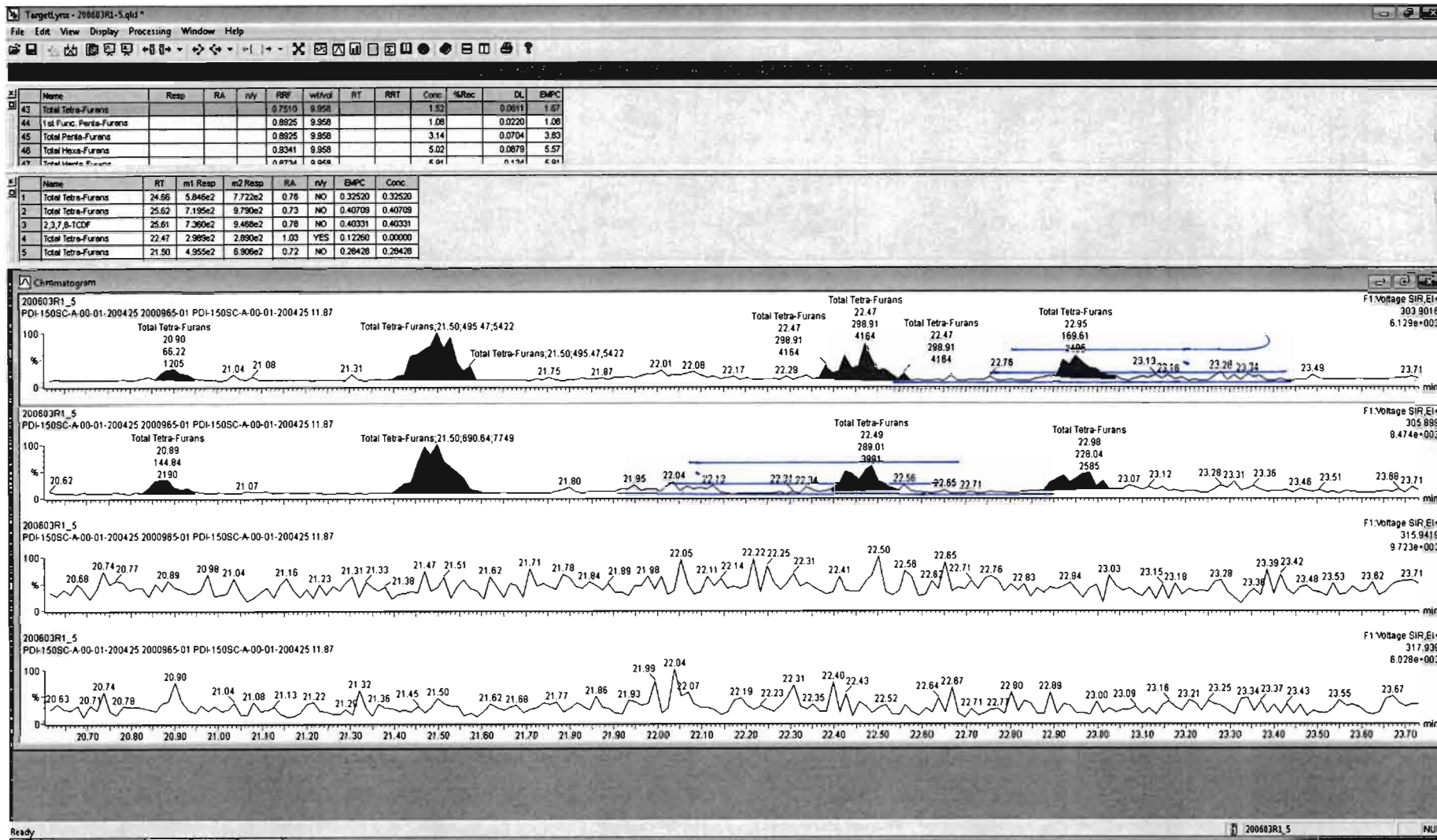


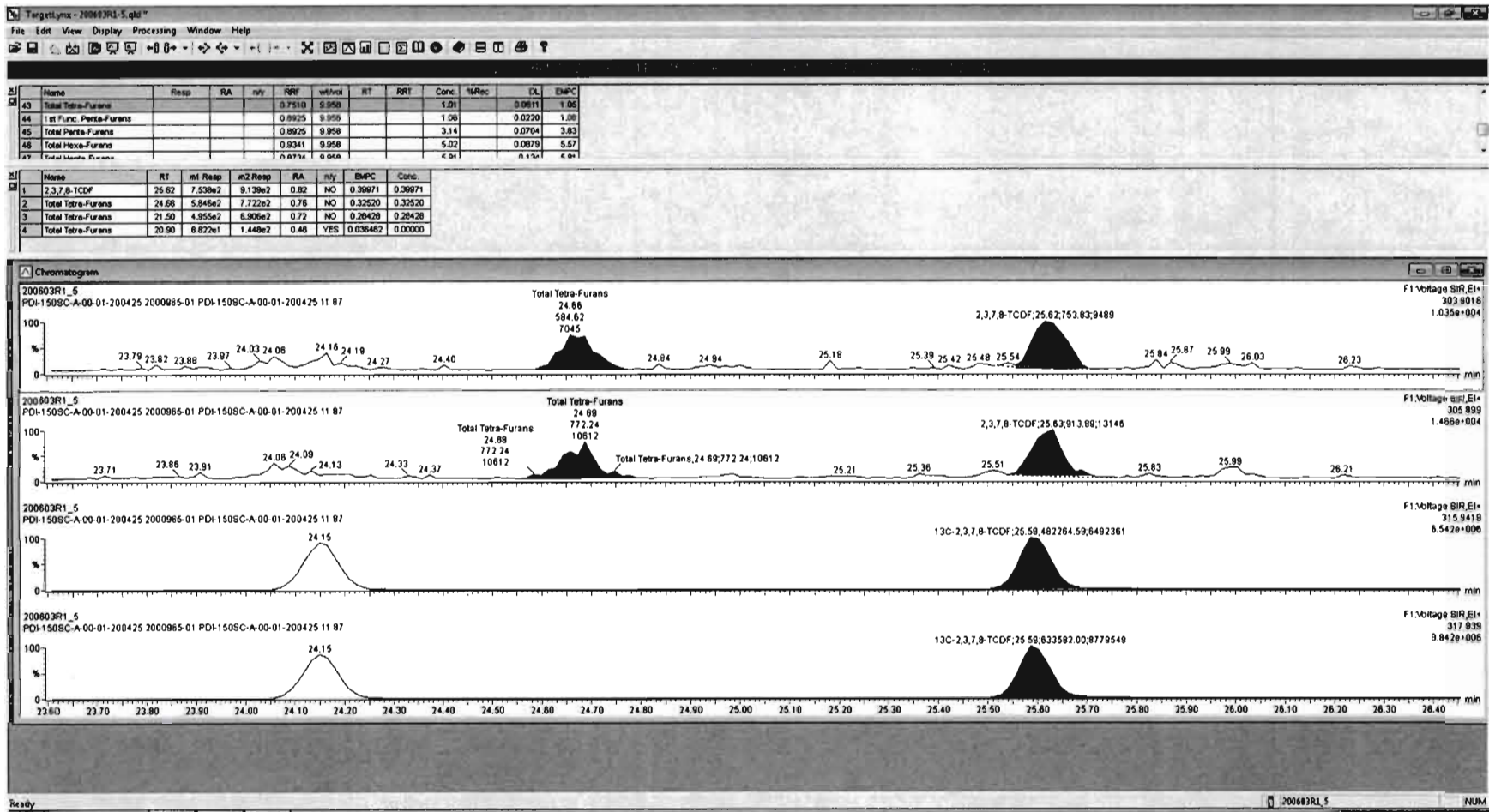
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DPE1







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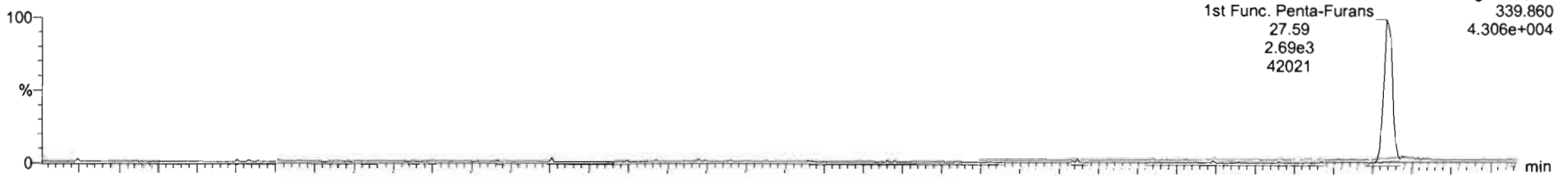
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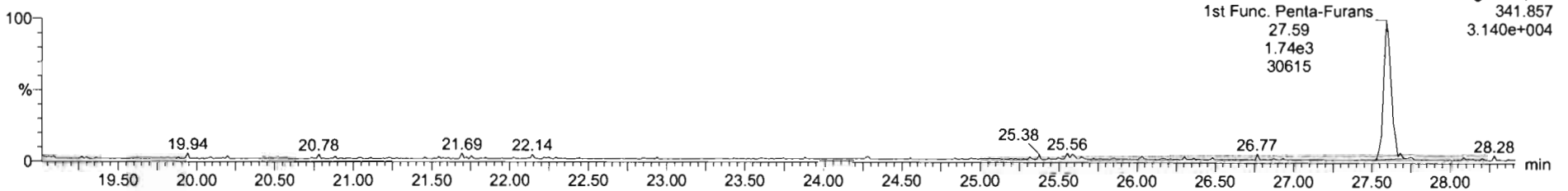
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1st Func. Penta-Furans

200603R1_5

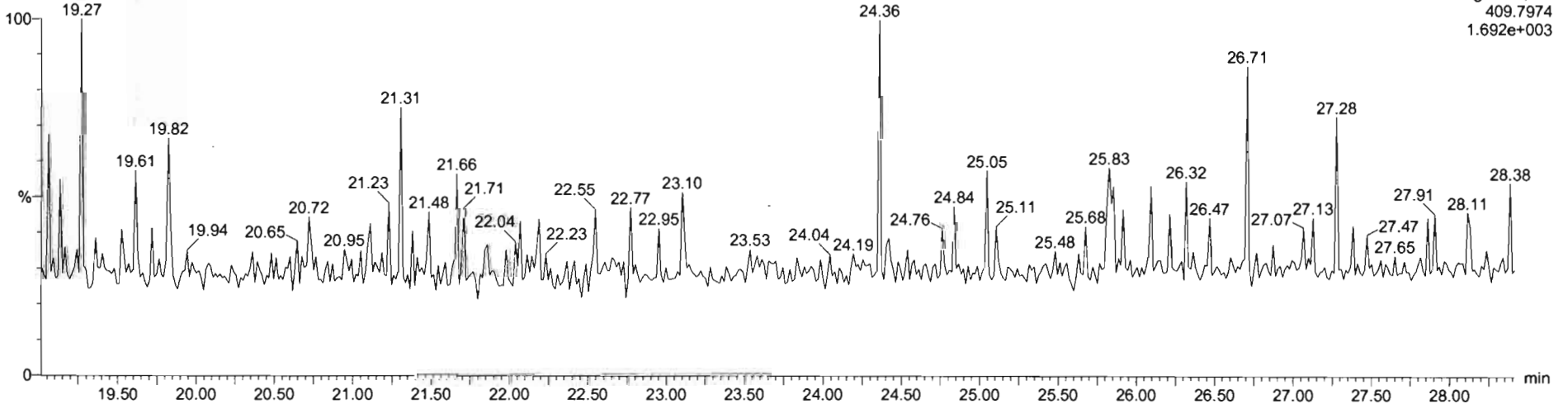


200603R1_5



DPE6

200603R1_5

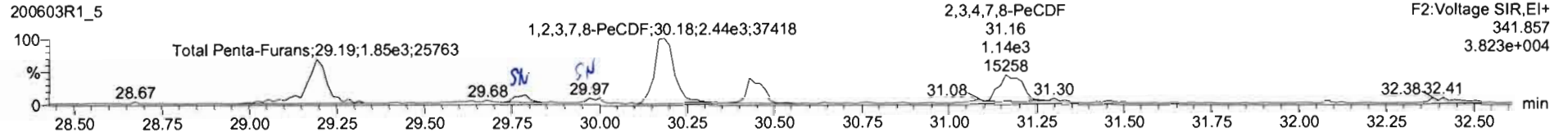
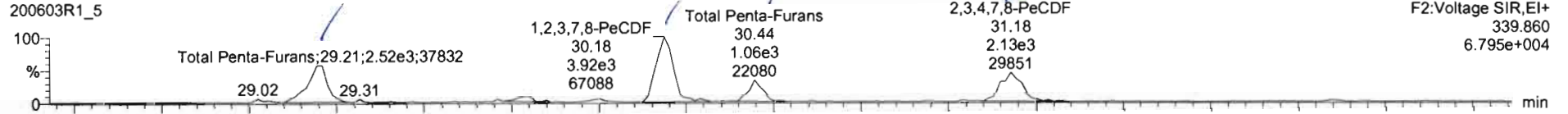


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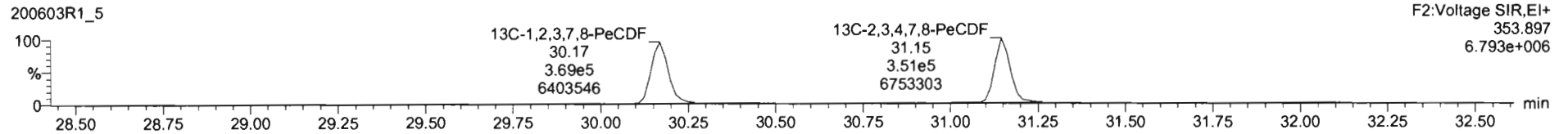
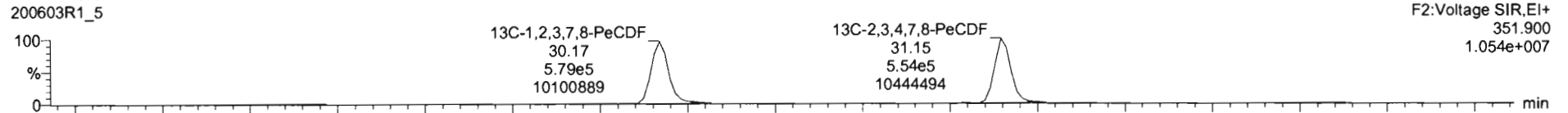
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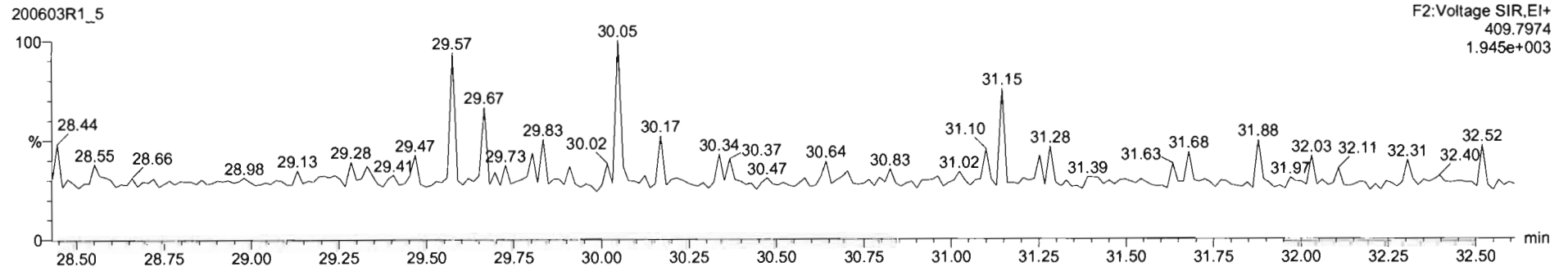
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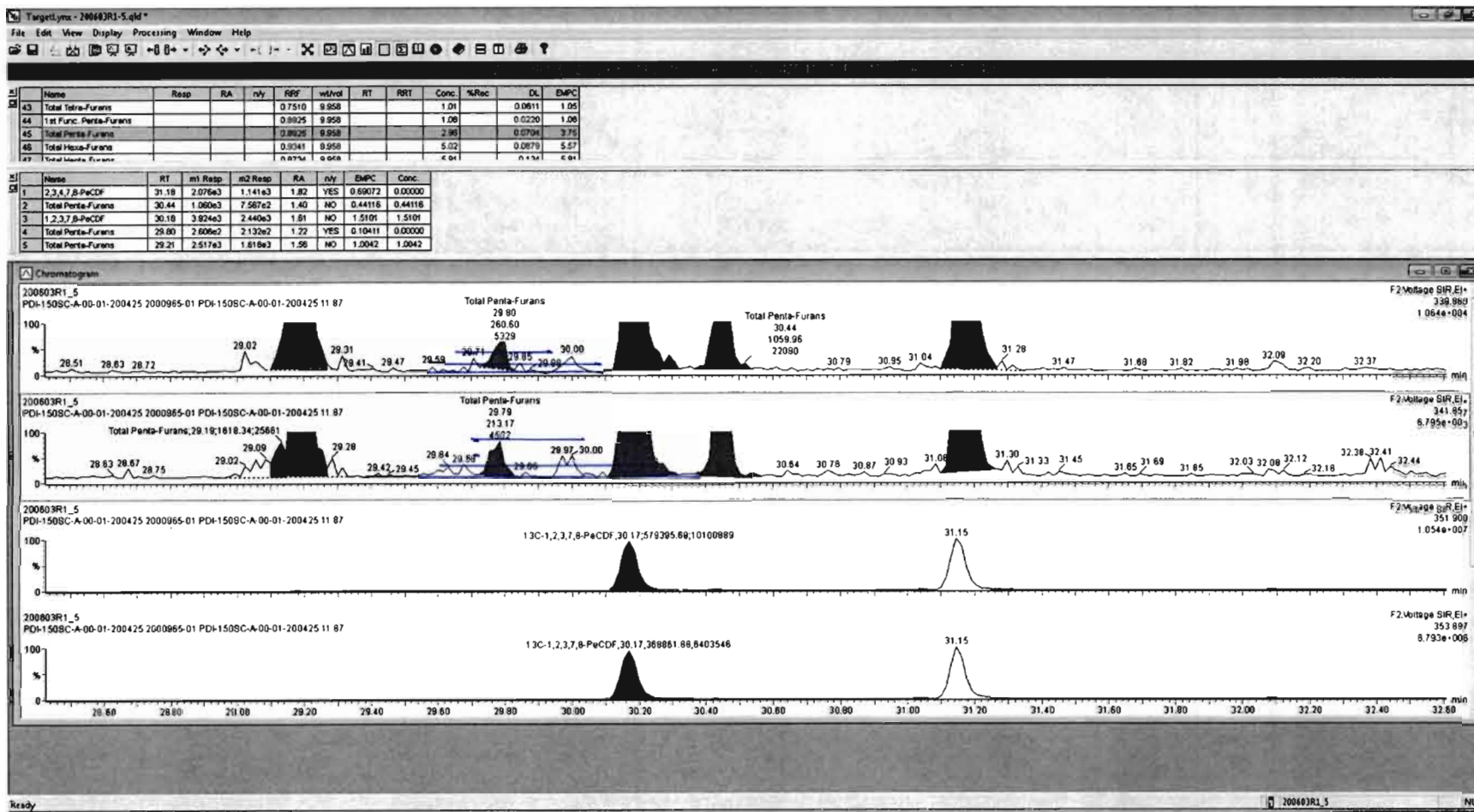


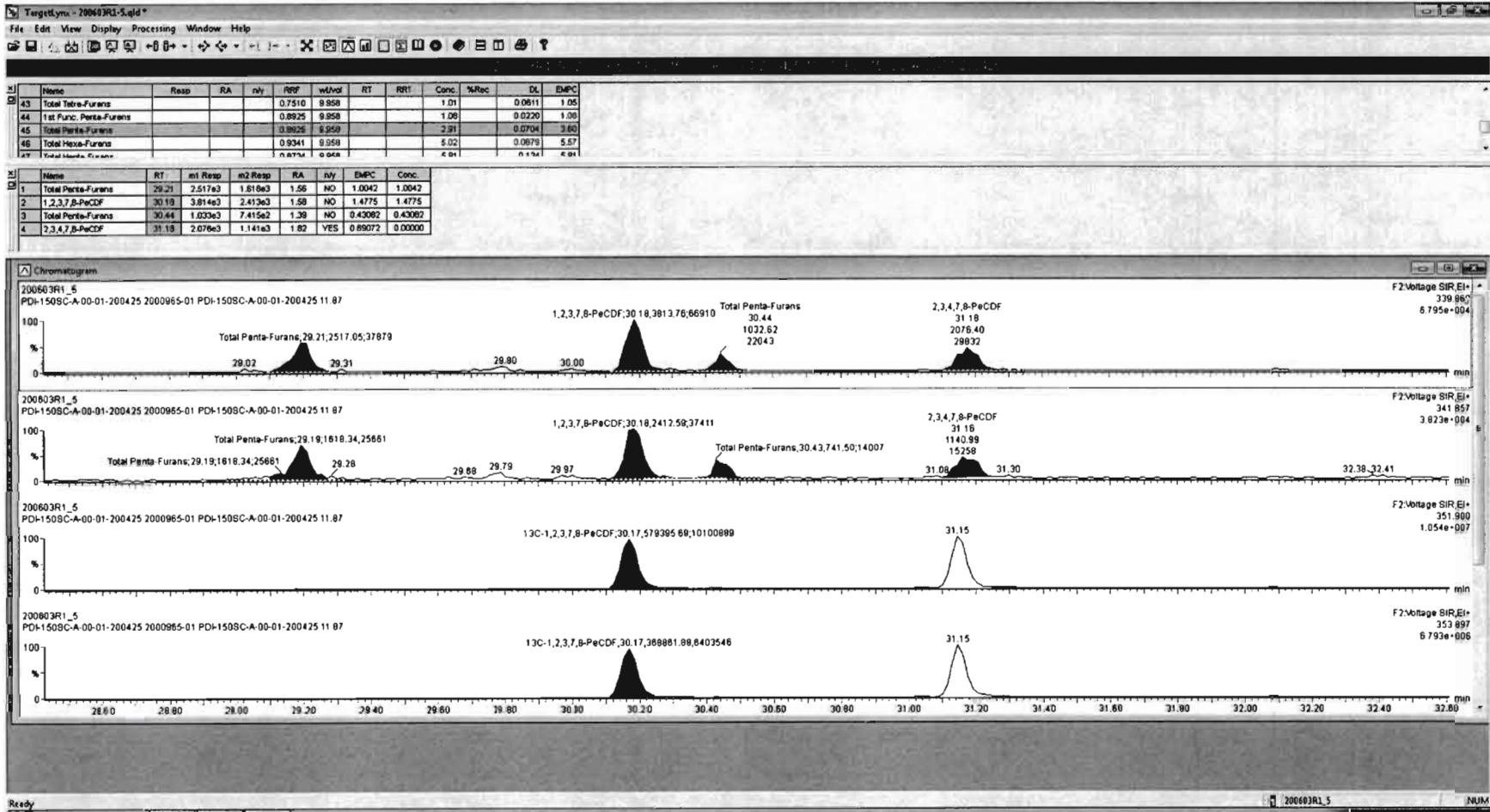
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DPE2







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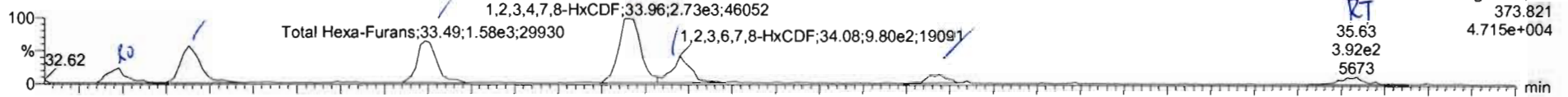
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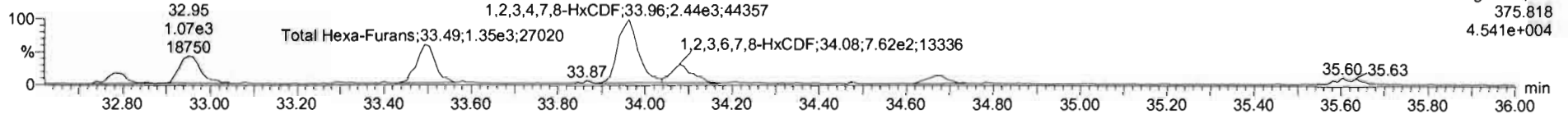
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1,2,3,4,7,8-HxCDF

200603R1_5

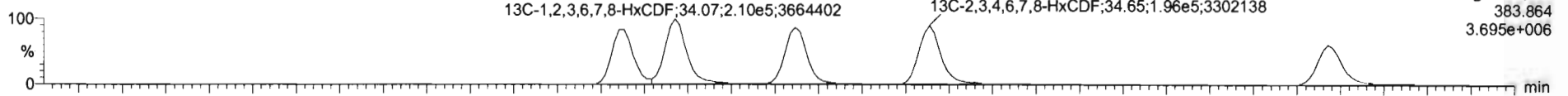


200603R1_5 Total Hexa-Furans

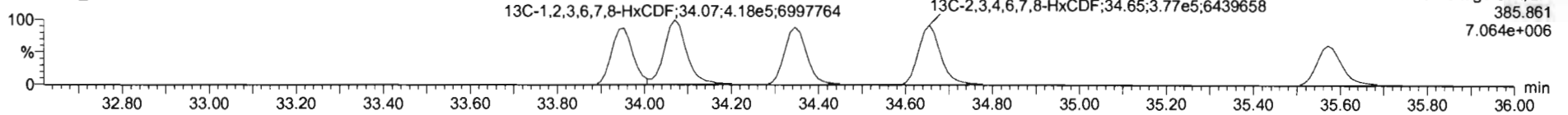


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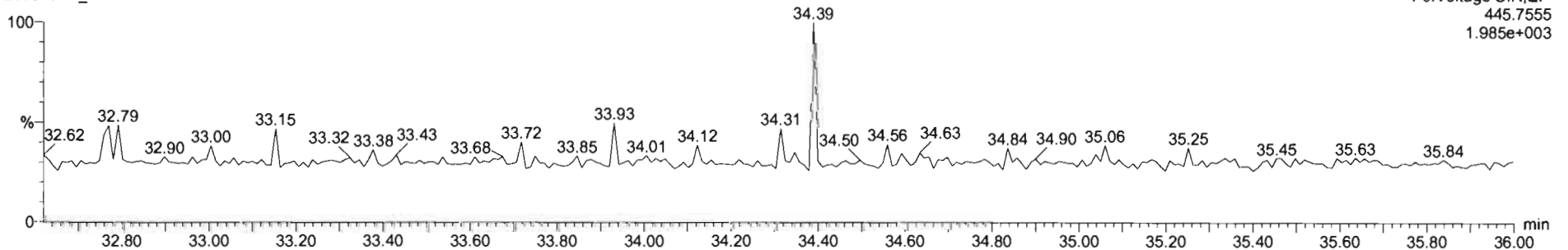


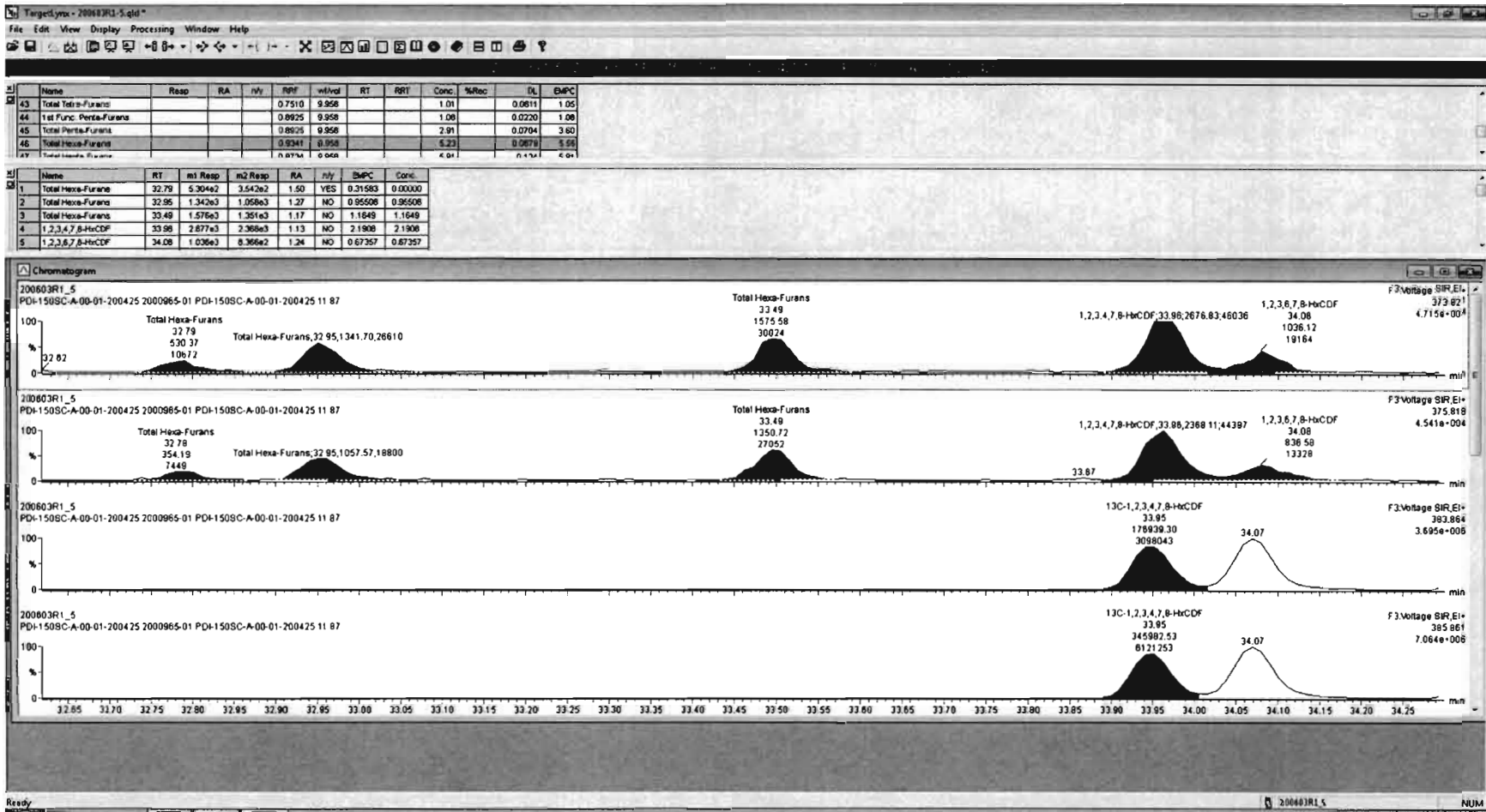
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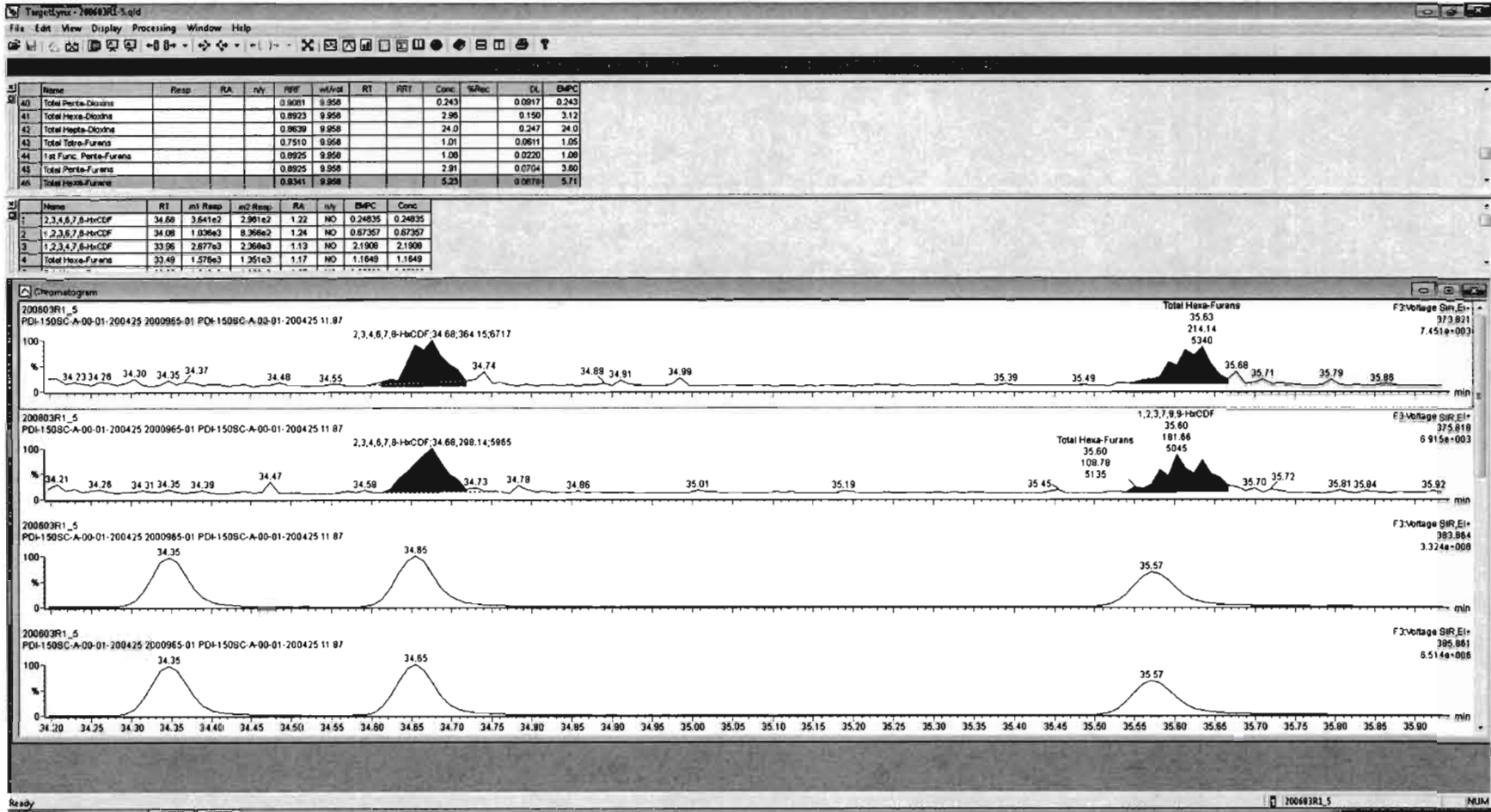


DPE3

200603R1_5







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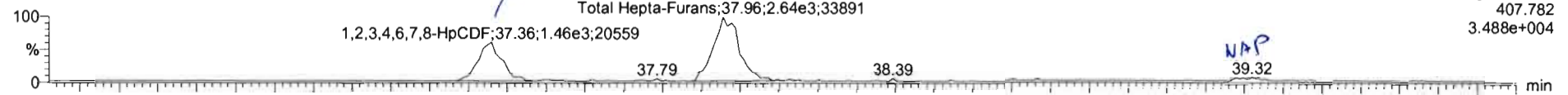
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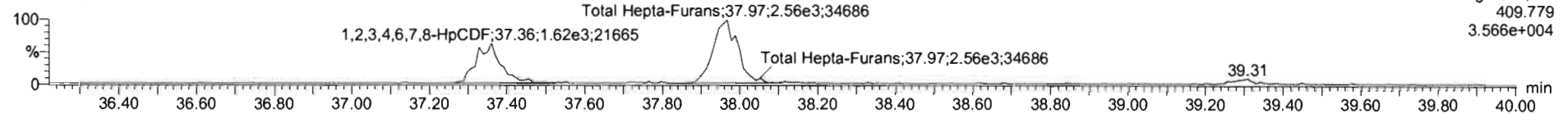
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1,2,3,4,6,7,8-HpCDF

200603R1_5

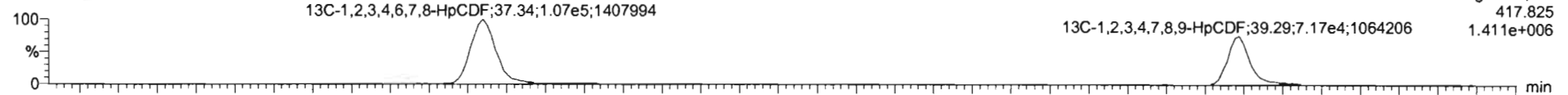


200603R1_5

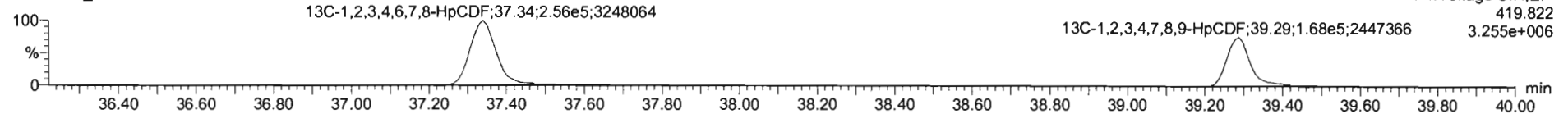


13C-1,2,3,4,6,7,8-HpCDF

200603R1_5

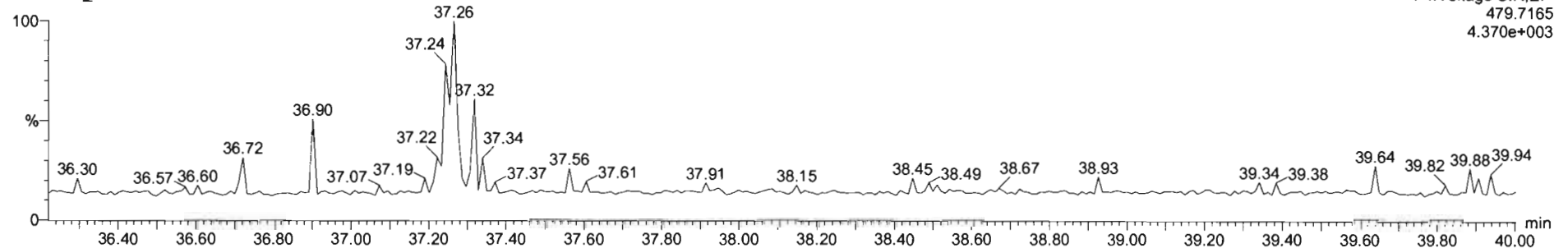


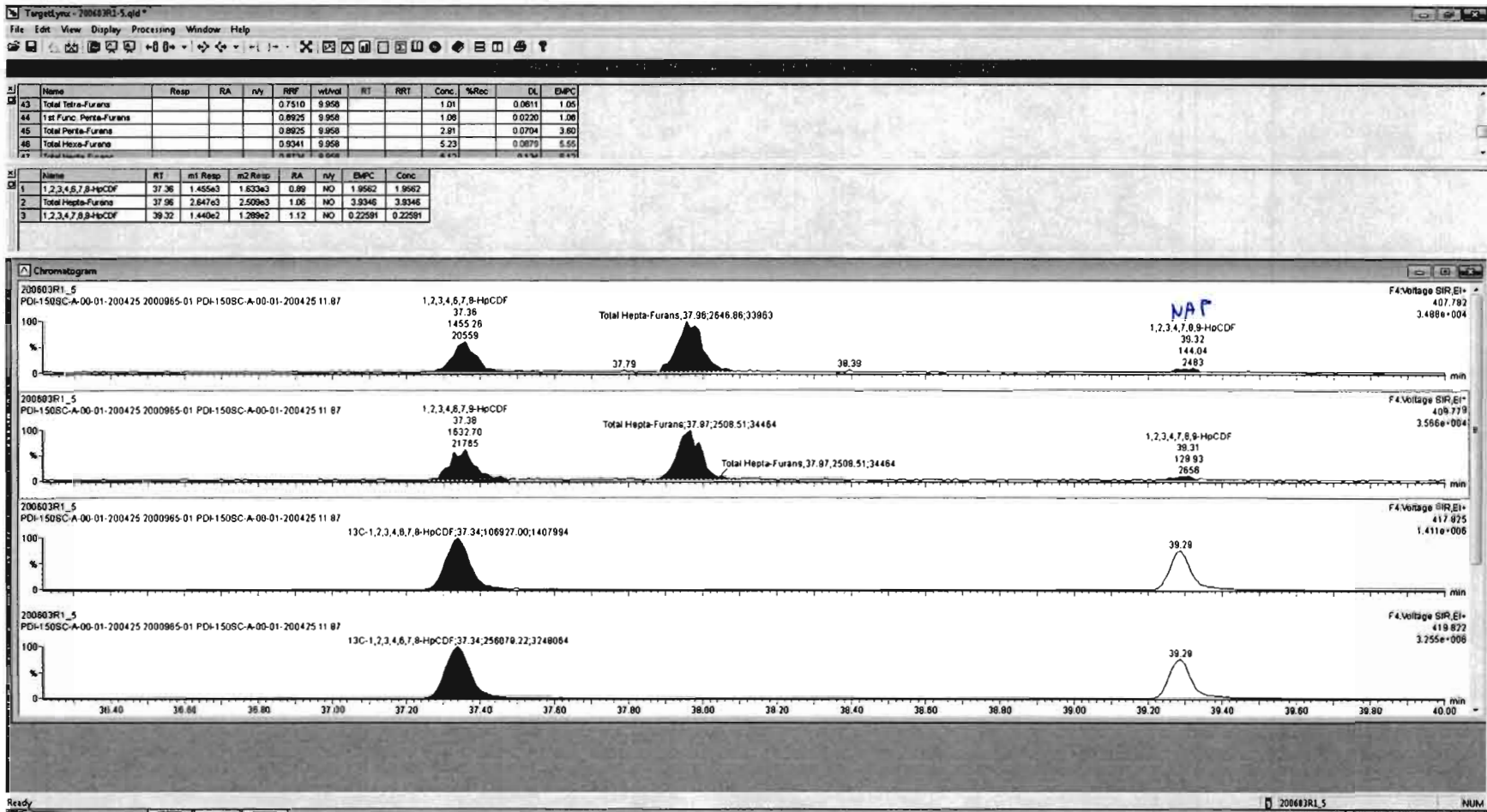
200603R1_5

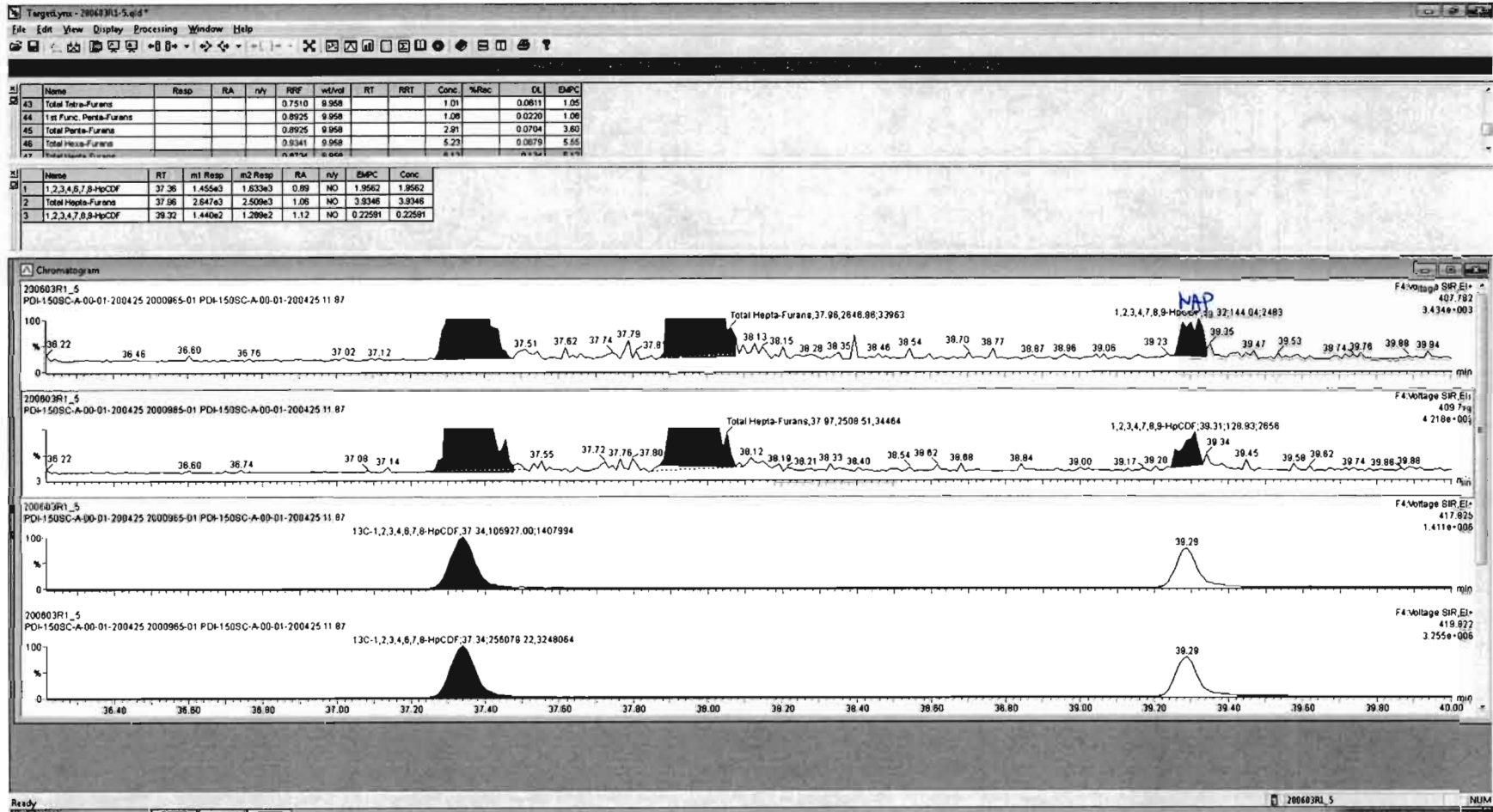


DPE4

200603R1_5



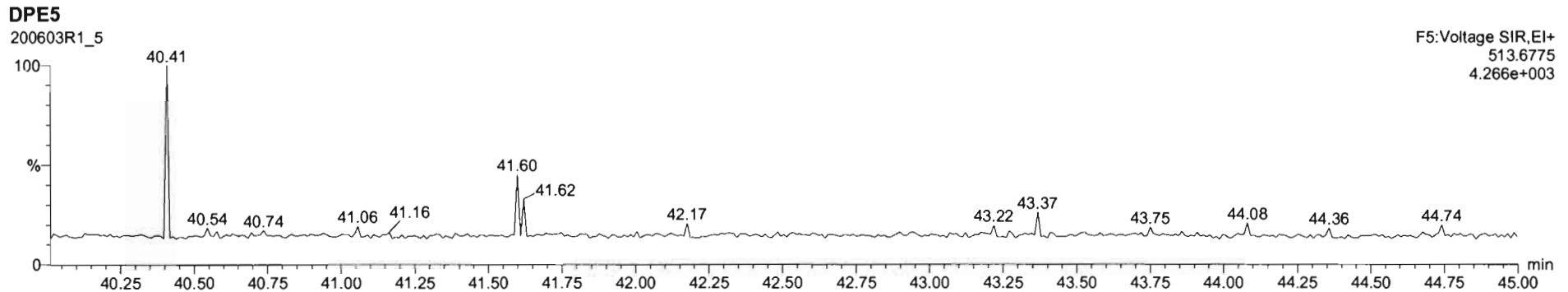
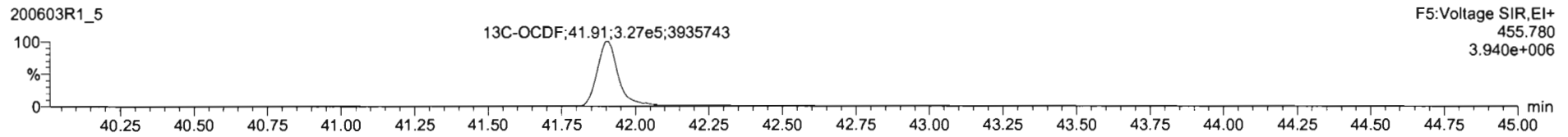
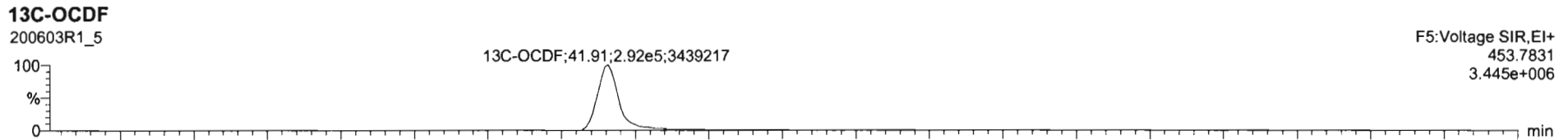
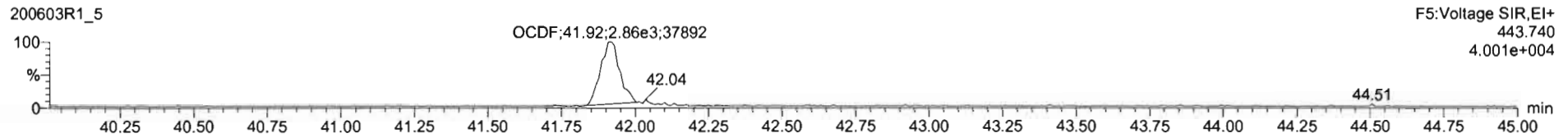


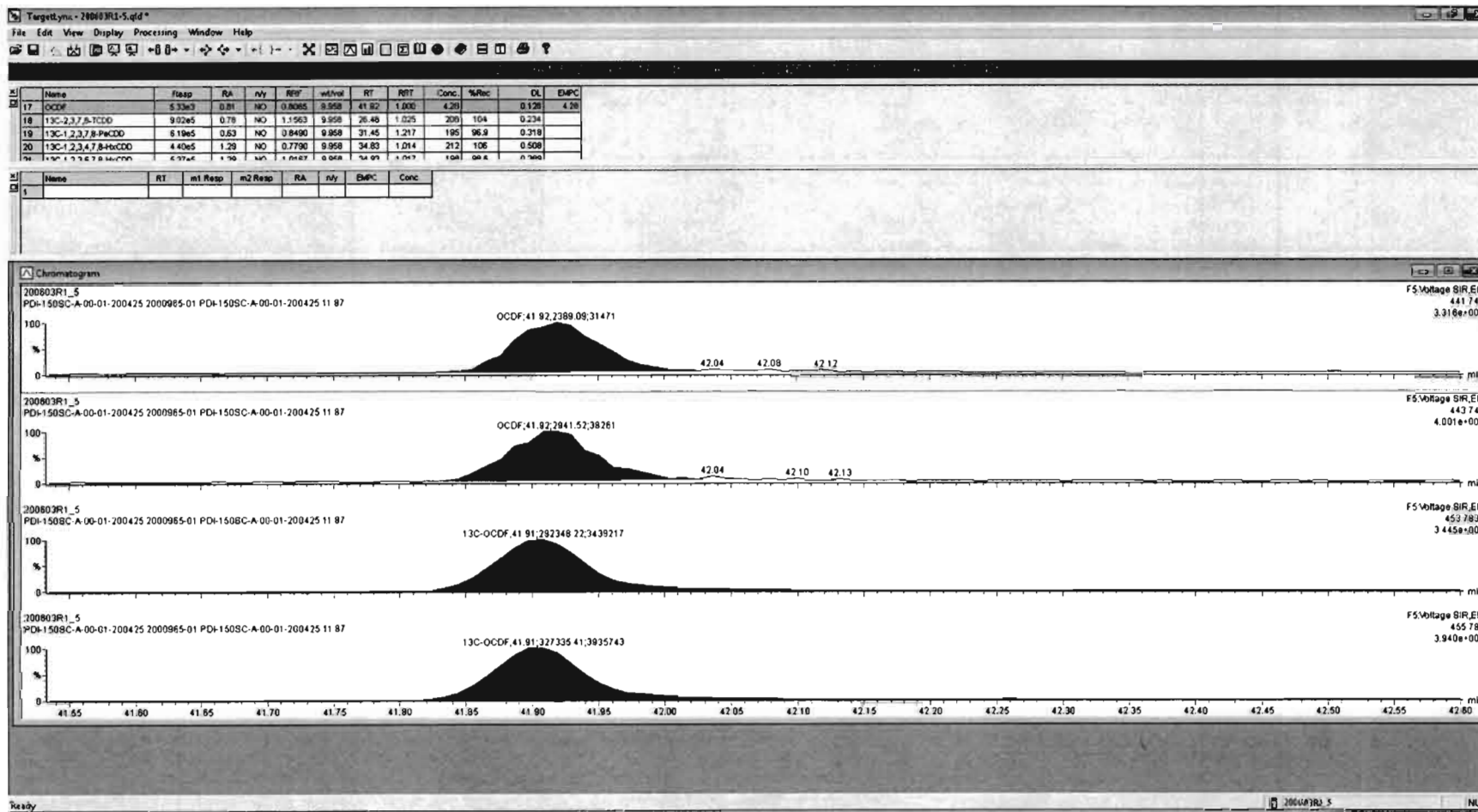


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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_5, Date: 03-Jun-2020, Time: 11:13:04, ID: 2000965-01 PDI-150SC-A-00-01-200425 11.87, Description: PDI-150SC-A-00-01-200425



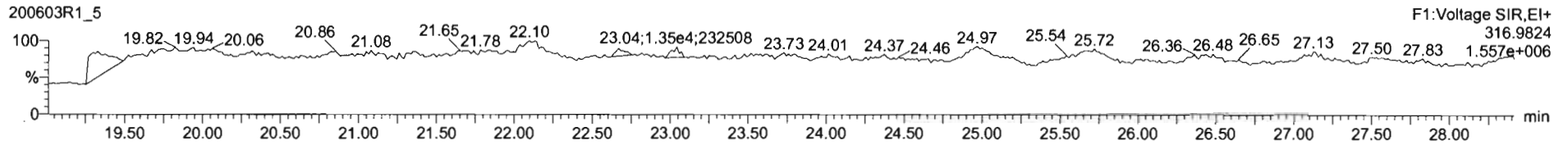


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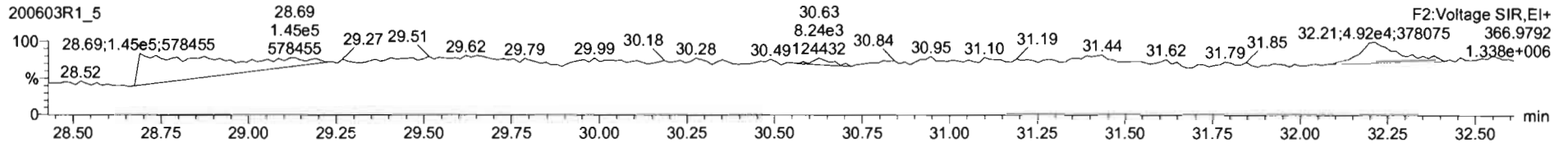
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_5, Date: 03-Jun-2020, Time: 11:13:04, ID: 2000965-01 PDI-150SC-A-00-01-200425 11.87, Description: PDI-150SC-A-00-01-200425

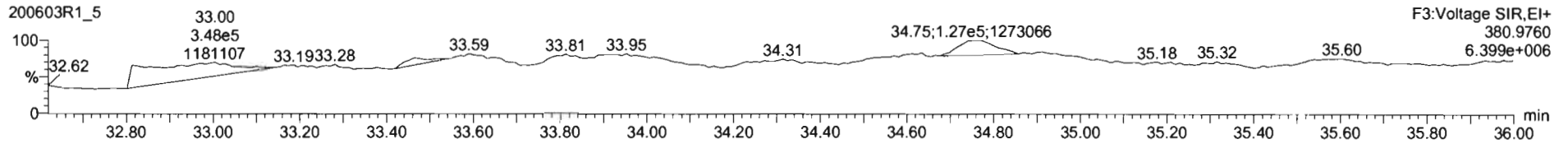
PFK1



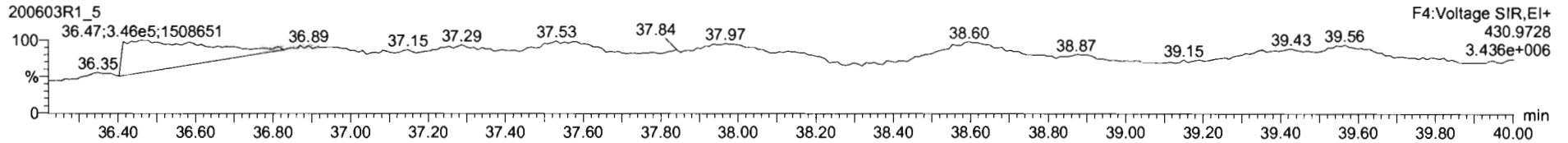
PFK2



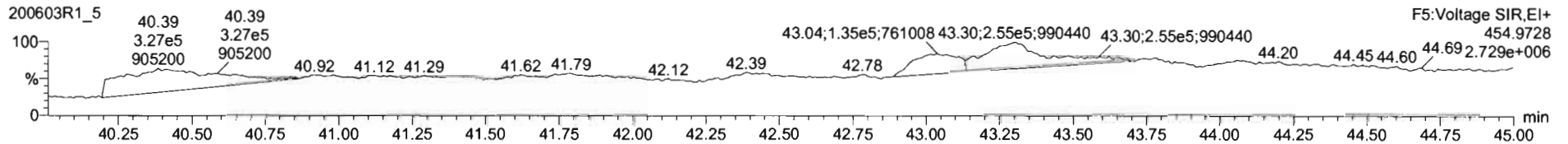
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R1\200603R1-6B.qld

Last Altered: Friday, June 05, 2020 2:54:17 PM Pacific Daylight Time

Printed: Friday, June 05, 2020 2:59:06 PM Pacific Daylight Time

HN 06/05/2020

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

LT 06/08/2020

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

#	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												0.0622	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.067	31.457		1.001				0.0816	
3	3 1,2,3,4,7,8-HxCDD	3.05e2	1.68	YES	1.03	10.067	34.825	34.92	1.000	1.003	0.13627		0.0753	0.113
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.067	34.911		1.000				0.0759	
5	5 1,2,3,7,8,9-HxCDD				0.887	10.067	35.209		1.000				0.0333	
6	6 1,2,3,4,6,7,8-HpCDD	7.14e3	1.00	NO	0.864	10.067	38.746	38.74	1.000	1.000	4.9899		0.101	4.99
7	7 OCDD	7.04e4	0.85	NO	0.914	10.067	41.716	41.73	1.000	1.000	54.798		0.158	54.8
8	8 2,3,7,8-TCDF			NO	0.751	10.067	25.612		1.001				0.0448	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.067	30.175		1.001				0.0457	
10	10 2,3,4,7,8-PeCDF	4.83e2	1.08	YES	0.935	10.067	31.147	31.16	1.000	1.001	0.10795		0.0416	0.0922
11	11 1,2,3,4,7,8-HxCDF	3.14e2	1.16	NO	0.884	10.067	33.941	33.95	1.000	1.000	0.13207		0.0538	0.132
12	12 1,2,3,6,7,8-HxCDF	2.26e2	1.05	YES	0.889	10.067	34.068	34.09	1.000	1.001	0.079545		0.0475	0.0736
13	13 2,3,4,6,7,8-HxCDF	2.32e2	0.93	YES	0.934	10.067	34.679	34.65	1.001	1.000	0.084696		0.0480	0.0737
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.067	35.560		1.000				0.0792	
15	15 1,2,3,4,6,7,8-HpCDF	2.65e3	1.02	NO	0.873	10.067	37.365	37.34	1.001	1.000	1.6660		0.125	1.67
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.067	39.277		1.000				0.133	
17	17 OCDF	2.67e3	0.86	NO	0.806	10.067	41.908	41.92	1.000	1.000	2.0333		0.162	2.03
18	18 13C-2,3,7,8-TCDD	9.26e5	0.79	NO	1.16	10.067	26.507	26.47	1.026	1.025	218.06	110	0.207	
19	19 13C-1,2,3,7,8-PeCDD	6.35e5	0.64	NO	0.849	10.067	31.692	31.43	1.227	1.217	203.82	103	0.316	
20	20 13C-1,2,3,4,7,8-HxCDD	4.34e5	1.29	NO	0.779	10.067	34.819	34.81	1.014	1.014	211.49	106	0.497	
21	21 13C-1,2,3,6,7,8-HxCDD	5.22e5	1.25	NO	1.02	10.067	34.932	34.91	1.017	1.017	195.13	98.2	0.381	
22	22 13C-1,2,3,7,8,9-HxCDD	4.66e5	1.22	NO	0.903	10.067	35.204	35.20	1.025	1.025	196.00	98.7	0.429	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.29e5	1.03	NO	0.689	10.067	38.726	38.73	1.128	1.128	181.51	91.4	0.545	
24	24 13C-OCDD	5.59e5	0.88	NO	0.652	10.067	41.748	41.72	1.216	1.215	325.71	82.0	0.501	
25	25 13C-2,3,7,8-TCDF	1.20e6	0.77	NO	1.06	10.067	25.549	25.59	0.989	0.991	207.90	105	0.325	
26	26 13C-1,2,3,7,8-PeCDF	9.53e5	1.58	NO	0.838	10.067	30.076	30.15	1.165	1.168	208.12	105	0.487	
27	27 13C-2,3,4,7,8-PeCDF	9.50e5	1.59	NO	0.817	10.067	31.029	31.15	1.202	1.206	212.89	107	0.499	
28	28 13C-1,2,3,4,7,8-HxCDF	5.34e5	0.51	NO	1.01	10.067	33.950	33.94	0.989	0.989	201.38	101	0.591	
29	29 13C-1,2,3,6,7,8-HxCDF	6.33e5	0.52	NO	1.17	10.067	34.074	34.06	0.992	0.992	206.23	104	0.510	
30	30 13C-2,3,4,6,7,8-HxCDF	5.83e5	0.50	NO	1.02	10.067	34.647	34.64	1.009	1.009	216.81	109	0.583	
31	31 13C-1,2,3,7,8,9-HxCDF	4.41e5	0.49	NO	0.860	10.067	35.547	35.56	1.035	1.036	194.98	98.1	0.693	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-6B.qld

Last Altered: Friday, June 05, 2020 2:54:17 PM Pacific Daylight Time
Printed: Friday, June 05, 2020 2:59:06 PM Pacific Daylight Time

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.62e5	0.42	NO	0.774	10.067	37.295	37.33	1.086	1.087	177.51	89.3	0.504	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.55e5	0.41	NO	0.521	10.067	39.324	39.28	1.145	1.144	186.21	93.7	0.749	
34	34 13C-OCDF	6.48e5	0.87	NO	0.746	10.067	41.920	41.91	1.221	1.221	330.22	83.1	0.592	
35	35 37Cl-2,3,7,8-TCDD	3.06e5			1.04	10.067	26.538	26.50	1.028	1.026	80.464	101	0.0522	
36	36 13C-1,2,3,4-TCDD	7.29e5	0.79	NO	1.00	10.067	25.890	25.83	1.000	1.000	198.67	100	0.239	
37	37 13C-1,2,3,4-TCDF	1.09e6	0.77	NO	1.00	10.067	24.360	24.13	1.000	1.000	198.67	100	0.345	
38	38 13C-1,2,3,4,6,9-HxCDF	5.23e5	0.50	NO	1.00	10.067	34.420	34.33	1.000	1.000	198.67	100	0.596	
39	39 Total Tetra-Dioxins				0.888	10.067	24.620		0.000				0.0348	
40	40 Total Penta-Dioxins				0.908	10.067	29.960		0.000		0.15602		0.0816	0.210
41	41 Total Hexa-Dioxins				0.892	10.067	33.635		0.000		1.4851		0.0828	1.60
42	42 Total Hepta-Dioxins				0.864	10.067	37.640		0.000		12.571	0.00000000...		12.6
43	43 Total Tetra-Furans				0.751	10.067	23.610		0.000		0.21975		0.0448	0.432
44	44 1st Func. Penta-Furans				0.893	10.067	27.580		0.000		0.95188		0.0220	0.952
45	45 Total Penta-Furans				0.893	10.067	29.275		0.000		0.32805		0.0446	0.623
46	46 Total Hexa-Furans				0.934	10.067	33.555		0.000		1.4662		0.0534	1.84
47	47 Total Hepta-Furans				0.873	10.067	37.835		0.000		3.9961		0.137	4.00

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-6B.qld

Last Altered: Friday, June 05, 2020 2:54:17 PM Pacific Daylight Time

Printed: Friday, June 05, 2020 2:59:06 PM Pacific Daylight Time

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

Tetra-Dioxins

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

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	3.002e3	5.366e3	1.726e2	2.805e2	0.62	NO	4.531e2	0.15602	0.15602	0.0816
2	Total Penta-Dioxins	29.60	1.598e3	2.698e3	3.891e1	9.562e1	0.41	YES	0.000e0	0.00000	0.034662	0.0816
3	Total Penta-Dioxins	29.73	1.491e3	2.238e3	2.680e1	3.413e1	0.79	YES	0.000e0	0.00000	0.019158	0.0816

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.32	1.910e4	1.753e4	9.068e2	8.205e2	1.11	NO	1.727e3	0.81166	0.81166	0.0828
2	Total Hexa-Dioxins	34.14	1.500e4	1.023e4	8.393e2	5.939e2	1.41	NO	1.433e3	0.67349	0.67349	0.0828
3	1,2,3,4,7,8-HxCDD	34.92	4.076e3	3.858e3	1.913e2	1.138e2	1.68	YES	3.051e2	0.00000	0.11305	0.0753

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.73	7.614e4	6.891e4	5.641e3	5.214e3	1.08	NO	1.085e4	7.5814	7.5814	0.0000...
2	1,2,3,4,6,7,8-HpCDD	38.74	5.979e4	5.411e4	3.570e3	3.575e3	1.00	NO	7.144e3	4.9899	4.9899	0.101

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.89	1.661e3	1.214e3	8.872e1	7.321e1	1.21	YES	0.000e0	0.00000	0.028488	0.0448
2	Total Tetra-Furans	21.49	5.715e3	5.737e3	4.506e2	5.489e2	0.82	NO	9.995e2	0.21975	0.21975	0.0448
3	Total Tetra-Furans	22.47	1.866e3	4.088e3	1.619e2	2.895e2	0.56	YES	0.000e0	0.00000	0.081817	0.0448
4	Total Tetra-Furans	24.06	3.449e3	4.307e3	2.013e2	3.399e2	0.59	YES	0.000e0	0.00000	0.10175	0.0448

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-6B.qld

Last Altered: Friday, June 05, 2020 2:54:17 PM Pacific Daylight Time

Printed: Friday, June 05, 2020 2:59:06 PM Pacific Daylight Time

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

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	27.58	3.599e4	2.493e4	2.444e3	1.625e3	1.50	NO	4.070e3	0.95188	0.95188	0.0220

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.18	1.012e4	7.091e3	8.493e2	5.532e2	1.54	NO	1.403e3	0.32805	0.32805	0.0446
2	Total Penta-Furans	29.62	1.144e3	2.304e3	4.488e1	8.132e1	0.55	YES	0.000e0	0.00000	0.017271	0.0446
3	Total Penta-Furans	29.67	3.670e2	1.079e3	6.027e0	2.021e1	0.30	YES	0.000e0	0.00000	0.00231...	0.0446
4	Total Penta-Furans	29.77	1.357e4	6.281e3	5.609e2	2.449e2	2.29	YES	0.000e0	0.00000	0.14605	0.0446
5	2,3,4,7,8-PeCDF	31.16	5.738e3	5.988e3	2.505e2	2.320e2	1.08	YES	4.826e2	0.00000	0.092205	0.0416
6	Total Penta-Furans	31.19	4.215e3	3.149e3	9.627e1	8.709e1	1.11	YES	0.000e0	0.00000	0.037047	0.0446

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.77	8.135e3	7.024e3	3.202e2	3.088e2	1.04	YES	0.000e0	0.00000	0.22454	0.0534
2	Total Hexa-Furans	32.94	1.439e4	1.462e4	8.032e2	7.157e2	1.12	NO	1.519e3	0.58956	0.58956	0.0534
3	Total Hexa-Furans	33.49	2.417e4	1.682e4	1.034e3	8.843e2	1.17	NO	1.918e3	0.74460	0.74460	0.0534
4	1,2,3,4,7,8-HxCDF	33.95	3.751e3	3.368e3	1.687e2	1.453e2	1.16	NO	3.140e2	0.13207	0.13207	0.0538
5	1,2,3,6,7,8-HxCDF	34.09	2.613e3	2.705e3	1.155e2	1.100e2	1.05	YES	2.255e2	0.00000	0.073576	0.0475
6	2,3,4,6,7,8-HxCDF	34.65	2.454e3	2.691e3	1.118e2	1.204e2	0.93	YES	2.322e2	0.00000	0.073688	0.0490

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	37.34	1.779e4	1.977e4	1.341e3	1.309e3	1.02	NO	2.650e3	1.6660	1.6660	0.125
2	Total Hepta-Furans	37.96	2.247e4	1.957e4	1.704e3	1.457e3	1.17	NO	3.161e3	2.3301	2.3301	0.137

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-6.qld

Last Altered: Friday, June 05, 2020 9:11:42 AM Pacific Daylight Time

Printed: Friday, June 05, 2020 9:12:37 AM Pacific Daylight Time

HN 06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

#	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												0.0622	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.067	31.457		1.001				0.0816	
3	3 1,2,3,4,7,8-HxCDD	3.05e2	1.68	YES	1.03	10.067	34.825	34.92	1.000	1.003	0.13527		0.0783	0.113
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.067	34.911		1.000				0.0759	
5	5 1,2,3,7,8,9-HxCDD				0.887	10.067	35.209		1.000				0.0333	
6	6 1,2,3,4,6,7,8-HpCDD	7.14e3	1.00	NO	0.864	10.067	38.746	38.74	1.000	1.000	4.9899		0.101	4.99
7	7 OCDD	7.04e4	0.85	NO	0.914	10.067	41.716	41.73	1.000	1.000	54.798		0.158	54.8
8	8 2,3,7,8-TCDF			NO	0.751	10.067	25.612		1.001				0.0448	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.067	30.175		1.001				0.0457	
10	10 2,3,4,7,8-PeCDF	6.74e2	1.07	YES	0.935	10.067	31.176	31.16	1.001	1.001	0.15083		0.0416	0.128
11	11 1,2,3,4,7,8-HxCDF	3.14e2	1.16	NO	0.884	10.067	33.941	33.95	1.000	1.000	0.13207		0.0538	0.132
12	12 1,2,3,6,7,8-HxCDF	2.26e2	1.05	YES	0.889	10.067	34.068	34.09	1.000	1.001	0.079545		0.0475	0.0736
13	13 2,3,4,6,7,8-HxCDF	2.32e2	0.93	YES	0.934	10.067	34.679	34.65	1.001	1.000	0.084896		0.0490	0.0737
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.067	35.560		1.000				0.0792	
15	15 1,2,3,4,6,7,8-HpCDF	2.65e3	1.02	NO	0.873	10.067	37.365	37.34	1.001	1.000	1.6660		0.125	1.67
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.067	39.277		1.000				0.133	
17	17 OCDF	2.67e3	0.86	NO	0.806	10.067	41.908	41.92	1.000	1.000	2.0333		0.162	2.03
18	18 13C-2,3,7,8-TCDD	9.26e5	0.79	NO	1.16	10.067	26.507	26.47	1.026	1.025	218.06	110	0.207	
19	19 13C-1,2,3,7,8-PeCDD	6.35e5	0.64	NO	0.849	10.067	31.692	31.43	1.227	1.217	203.82	103	0.316	
20	20 13C-1,2,3,4,7,8-HxCDD	4.34e5	1.29	NO	0.779	10.067	34.819	34.81	1.014	1.014	211.49	106	0.497	
21	21 13C-1,2,3,6,7,8-HxCDD	5.22e5	1.25	NO	1.02	10.067	34.932	34.91	1.017	1.017	195.13	98.2	0.381	
22	22 13C-1,2,3,7,8,9-HxCDD	4.66e5	1.22	NO	0.903	10.067	35.204	35.20	1.025	1.025	196.00	98.7	0.429	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.29e5	1.03	NO	0.689	10.067	38.726	38.73	1.128	1.128	181.51	91.4	0.545	
24	24 13C-OCDD	5.59e5	0.88	NO	0.652	10.067	41.748	41.72	1.216	1.215	325.71	82.0	0.501	
25	25 13C-2,3,7,8-TCDF	1.20e6	0.77	NO	1.06	10.067	25.549	25.59	0.989	0.991	207.90	105	0.325	
26	26 13C-1,2,3,7,8-PeCDF	9.53e5	1.58	NO	0.838	10.067	30.076	30.15	1.165	1.168	208.12	105	0.487	
27	27 13C-2,3,4,7,8-PeCDF	9.50e5	1.59	NO	0.817	10.067	31.029	31.15	1.202	1.206	212.89	107	0.499	
28	28 13C-1,2,3,4,7,8-HxCDF	5.34e5	0.51	NO	1.01	10.067	33.950	33.94	0.989	0.989	201.38	101	0.591	
29	29 13C-1,2,3,6,7,8-HxCDF	6.33e5	0.52	NO	1.17	10.067	34.074	34.06	0.992	0.992	206.23	104	0.510	
30	30 13C-2,3,4,6,7,8-HxCDF	5.83e5	0.50	NO	1.02	10.067	34.647	34.64	1.009	1.009	216.81	109	0.583	
31	31 13C-1,2,3,7,8,9-HxCDF	4.41e5	0.49	NO	0.860	10.067	35.547	35.56	1.035	1.036	194.98	98.1	0.693	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-6.qld

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Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.62e5	0.42	NO	0.774	10.067	37.295	37.33	1.086	1.087	177.51	89.3	0.504	
33	13C-1,2,3,4,7,8,9-HpCDF	2.55e5	0.41	NO	0.521	10.067	39.324	39.28	1.145	1.144	186.21	93.7	0.749	
34	13C-OCDF	6.48e5	0.87	NO	0.746	10.067	41.920	41.91	1.221	1.221	330.22	83.1	0.592	
35	37Cl-2,3,7,8-TCDD	3.06e5			1.04	10.067	26.538	26.50	1.028	1.026	80.464	101	0.0522	
36	13C-1,2,3,4-TCDD	7.29e5	0.79	NO	1.00	10.067	25.890	25.83	1.000	1.000	198.67	100	0.239	
37	13C-1,2,3,4-TCDF	1.09e6	0.77	NO	1.00	10.067	24.360	24.13	1.000	1.000	198.67	100	0.345	
38	13C-1,2,3,4,6,9-HxCDF	5.23e5	0.50	NO	1.00	10.067	34.420	34.33	1.000	1.000	198.67	100	0.596	
39	Total Tetra-Dioxins				0.888	10.067	24.620		0.000				0.0348	
40	Total Penta-Dioxins				0.908	10.067	29.960		0.000		0.15602		0.0816	0.210
41	Total Hexa-Dioxins				0.892	10.067	33.635		0.000		1.4851		0.0828	1.60
42	Total Hepta-Dioxins				0.864	10.067	37.640		0.000		12.571	0.00000000...		12.6
43	Total Tetra-Furans				0.751	10.067	23.610		0.000		0.21975		0.0448	0.432
44	1st Func. Penta-Furans				0.893	10.067	27.580		0.000		0.95188		0.0220	0.952
45	Total Penta-Furans				0.893	10.067	29.275		0.000		0.32805		0.0446	0.622
46	Total Hexa-Furans				0.934	10.067	33.555		0.000		1.4662		0.0534	1.84
47	Total Hepta-Furans				0.873	10.067	37.835		0.000		3.9961		0.137	4.00

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-6.qld

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Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

Tetra-Dioxins

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

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	3.002e3	5.366e3	1.726e2	2.805e2	0.62	NO	4.531e2	0.15602	0.15602	0.0816
2	Total Penta-Dioxins	29.60	1.598e3	2.698e3	3.891e1	9.562e1	0.41	YES	0.000e0	0.00000	0.034662	0.0816
3	Total Penta-Dioxins	29.73	1.491e3	2.238e3	2.680e1	3.413e1	0.79	YES	0.000e0	0.00000	0.019158	0.0816

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.32	1.910e4	1.753e4	9.068e2	8.205e2	1.11	NO	1.727e3	0.81166	0.81166	0.0828
2	Total Hexa-Dioxins	34.14	1.500e4	1.023e4	8.393e2	5.939e2	1.41	NO	1.433e3	0.67349	0.67349	0.0828
3	1,2,3,4,7,8-HxCDD	34.92	4.076e3	3.858e3	1.913e2	1.138e2	1.68	YES	3.051e2	0.00000	0.11305	0.0753

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.73	7.614e4	6.891e4	5.641e3	5.214e3	1.08	NO	1.085e4	7.5814	7.5814	0.0000...
2	1,2,3,4,6,7,8-HpCDD	38.74	5.979e4	5.411e4	3.570e3	3.575e3	1.00	NO	7.144e3	4.9899	4.9899	0.101

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.89	1.661e3	1.214e3	8.872e1	7.321e1	1.21	YES	0.000e0	0.00000	0.028488	0.0448
2	Total Tetra-Furans	21.49	5.715e3	5.737e3	4.506e2	5.489e2	0.82	NO	9.995e2	0.21975	0.21975	0.0448
3	Total Tetra-Furans	22.47	1.866e3	4.088e3	1.619e2	2.895e2	0.56	YES	0.000e0	0.00000	0.081817	0.0448
4	Total Tetra-Furans	24.06	3.449e3	4.307e3	2.013e2	3.399e2	0.59	YES	0.000e0	0.00000	0.10175	0.0448

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-6.qld

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Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

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	27.58	3.599e4	2.493e4	2.444e3	1.625e3	1.50	NO	4.070e3	0.95188	0.95188	0.0220

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.18	1.012e4	7.091e3	8.493e2	5.532e2	1.54	NO	1.403e3	0.32805	0.32805	0.0446
2	Total Penta-Furans	29.62	1.144e3	2.304e3	4.488e1	8.132e1	0.55	YES	0.000e0	0.00000	0.017271	0.0446
3	Total Penta-Furans	29.67	3.670e2	1.079e3	6.027e0	2.021e1	0.30	YES	0.000e0	0.00000	0.00231...	0.0446
4	Total Penta-Furans	29.77	1.357e4	6.281e3	5.609e2	2.449e2	2.29	YES	0.000e0	0.00000	0.14605	0.0446
5	2,3,4,7,8-PeCDF	31.16	5.784e3	5.995e3	3.486e2	3.256e2	1.07	YES	6.742e2	0.00000	0.12831	0.0416

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.77	8.135e3	7.024e3	3.202e2	3.088e2	1.04	YES	0.000e0	0.00000	0.22454	0.0534
2	Total Hexa-Furans	32.94	1.439e4	1.462e4	8.032e2	7.157e2	1.12	NO	1.519e3	0.58956	0.58956	0.0534
3	Total Hexa-Furans	33.49	2.417e4	1.682e4	1.034e3	8.843e2	1.17	NO	1.918e3	0.74460	0.74460	0.0534
4	1,2,3,4,7,8-HxCDF	33.95	3.751e3	3.368e3	1.687e2	1.453e2	1.16	NO	3.140e2	0.13207	0.13207	0.0538
5	1,2,3,6,7,8-HxCDF	34.09	2.613e3	2.705e3	1.155e2	1.100e2	1.05	YES	2.255e2	0.00000	0.073576	0.0475
6	2,3,4,6,7,8-HxCDF	34.65	2.454e3	2.691e3	1.118e2	1.204e2	0.93	YES	2.322e2	0.00000	0.073688	0.0490

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	37.34	1.779e4	1.977e4	1.341e3	1.309e3	1.02	NO	2.650e3	1.6660	1.6660	0.125
2	Total Hepta-Furans	37.96	2.247e4	1.957e4	1.704e3	1.457e3	1.17	NO	3.161e3	2.3301	2.3301	0.137

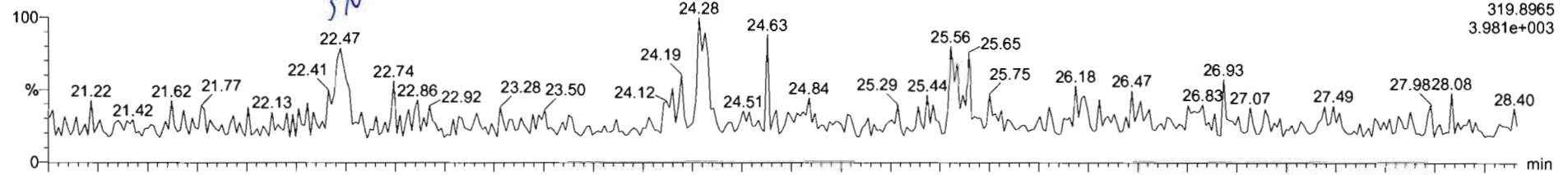
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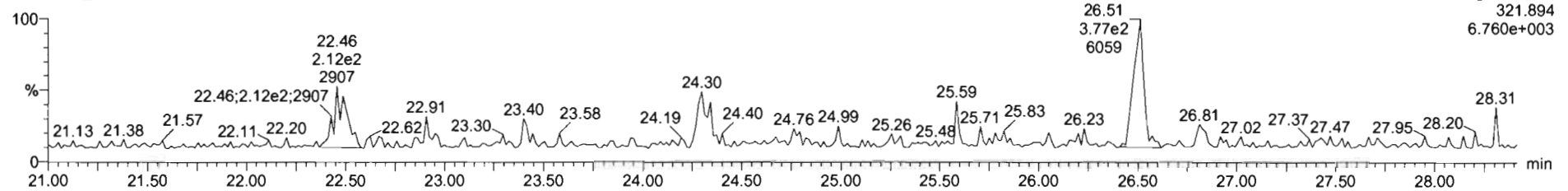
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2,3,7,8-TCDD

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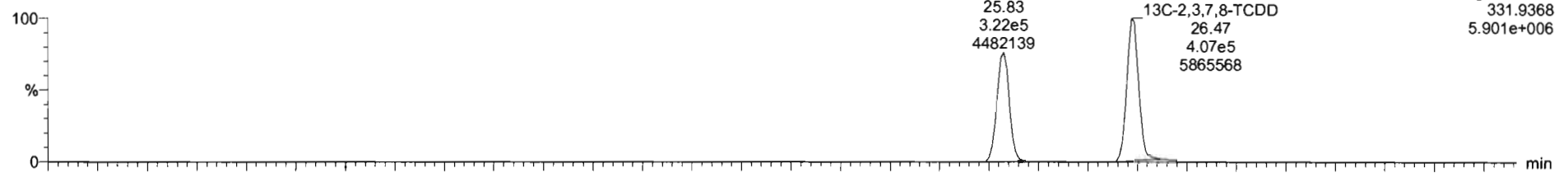


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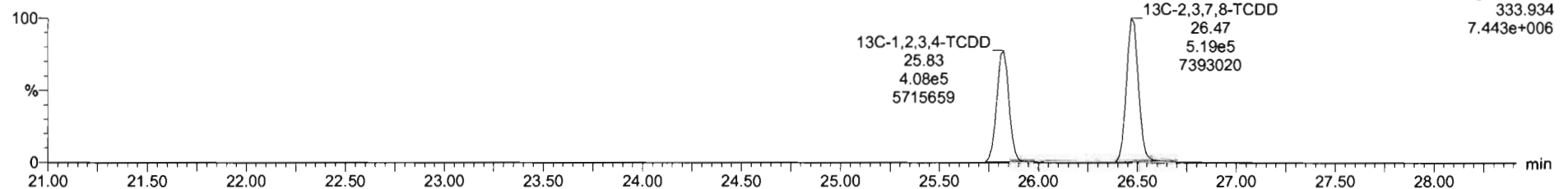


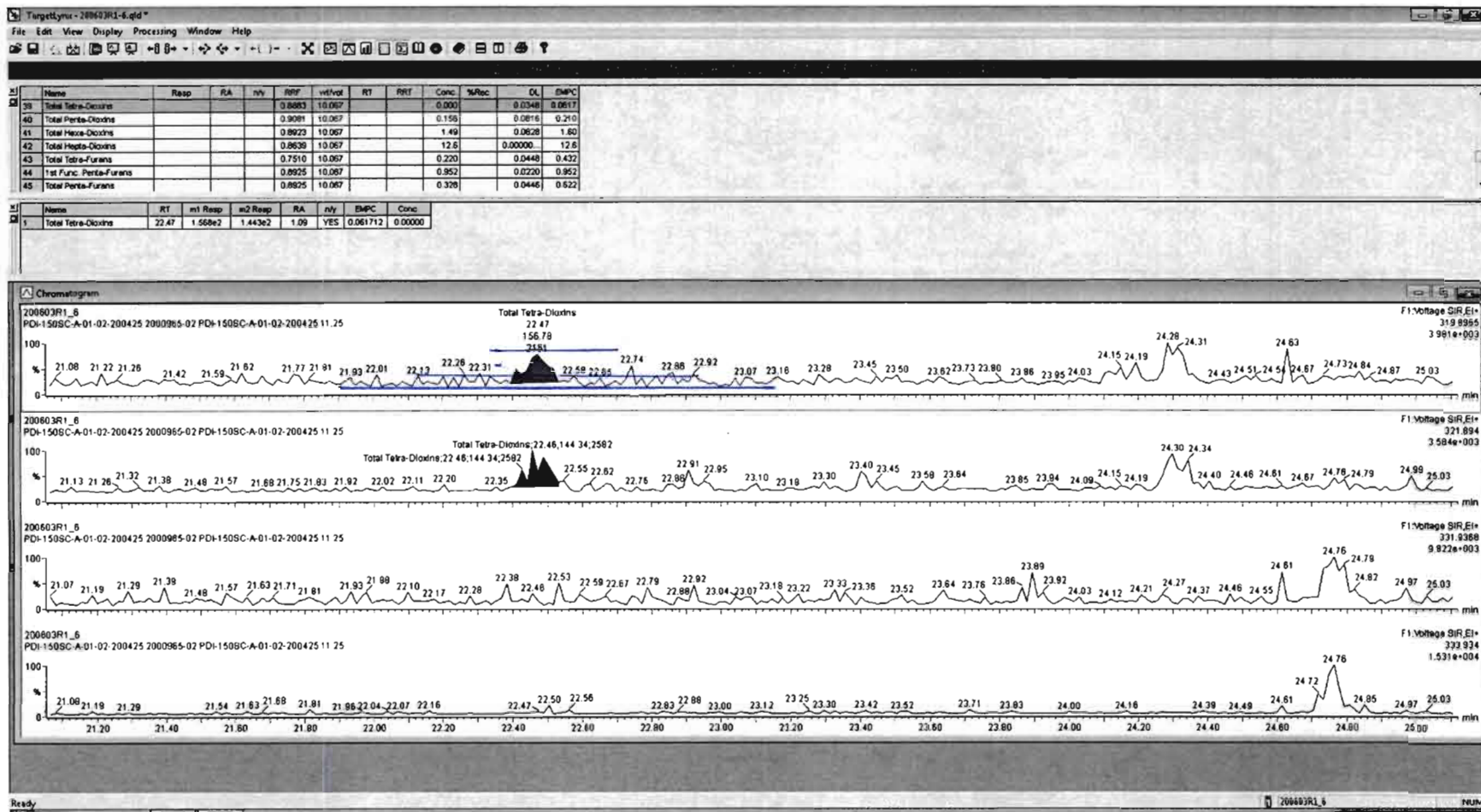
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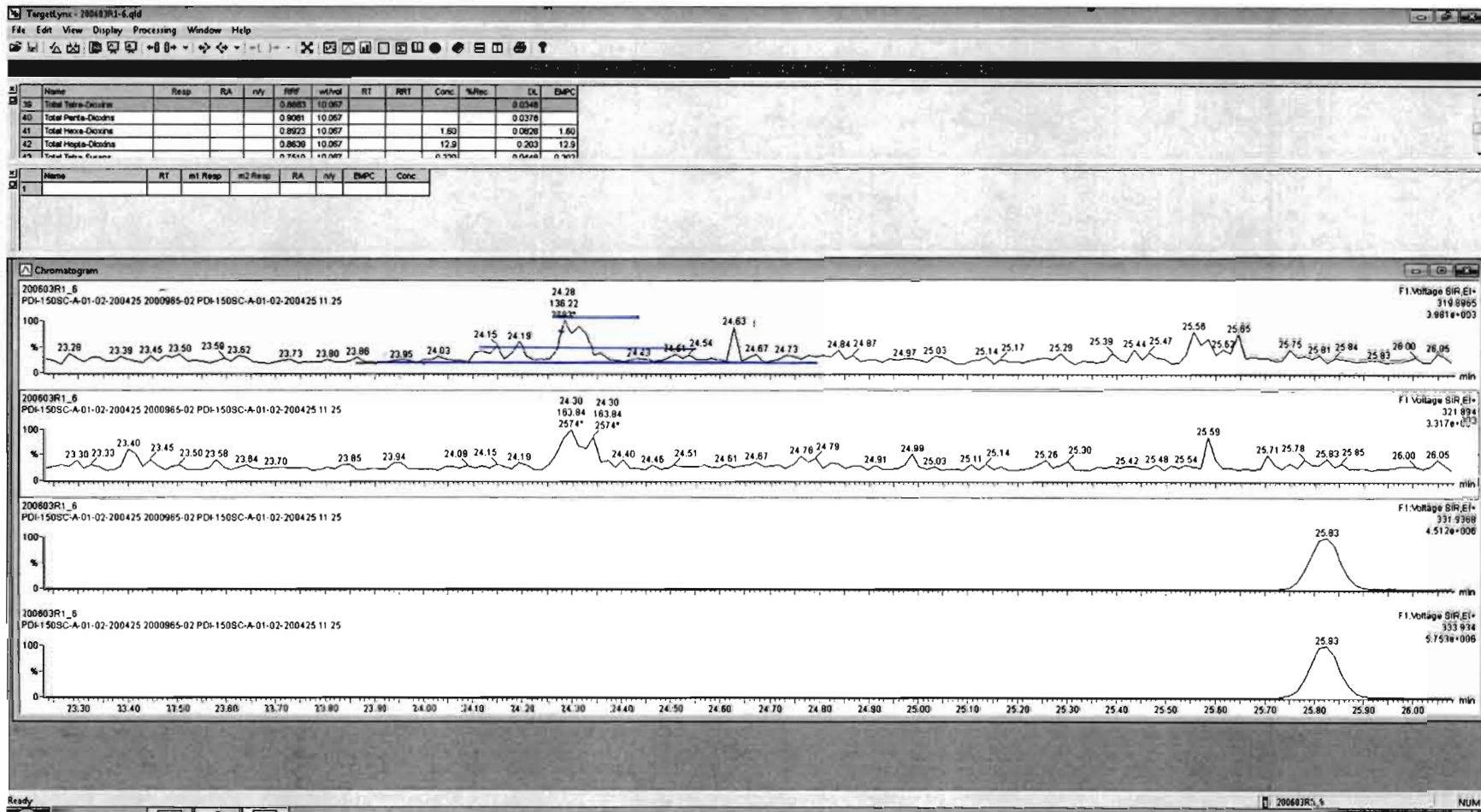
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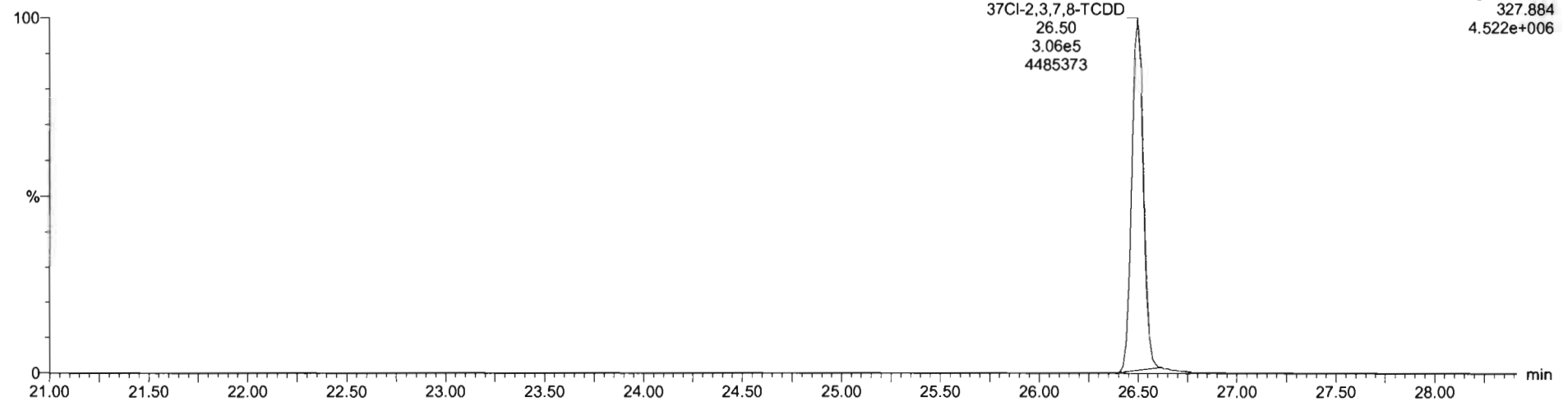
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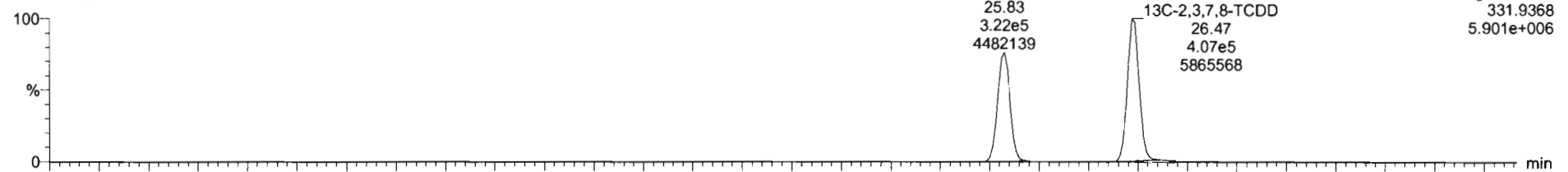
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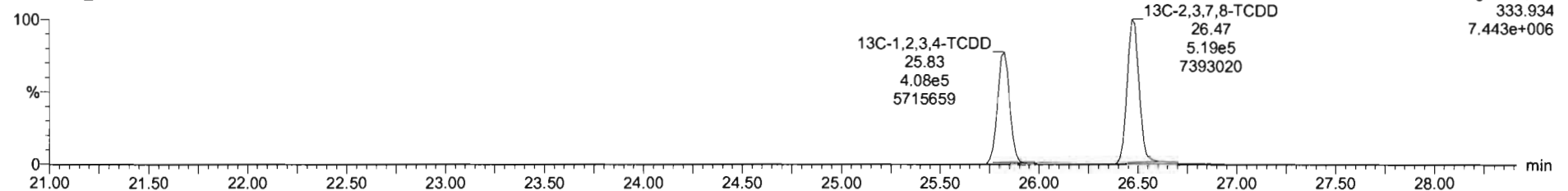


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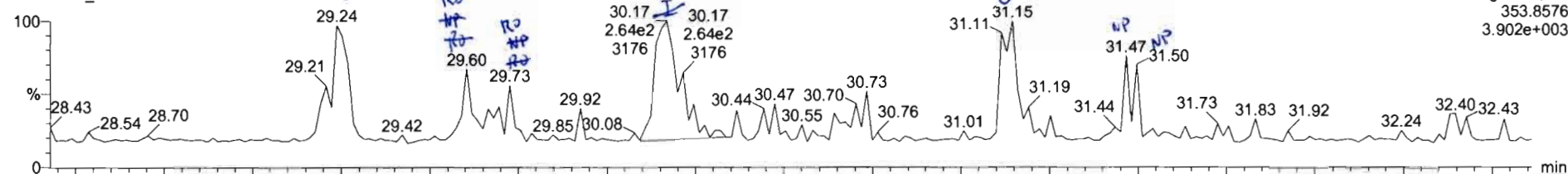
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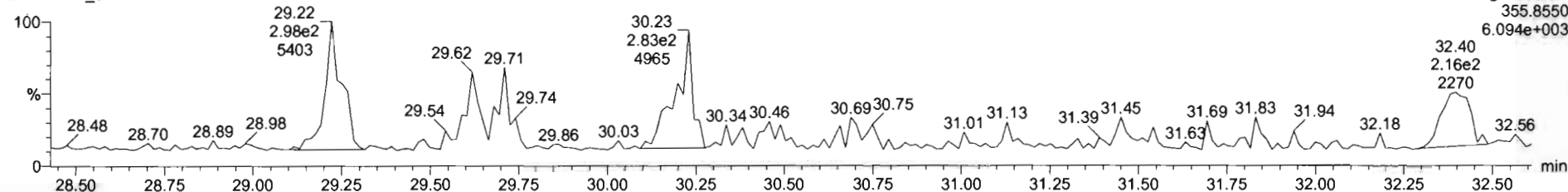
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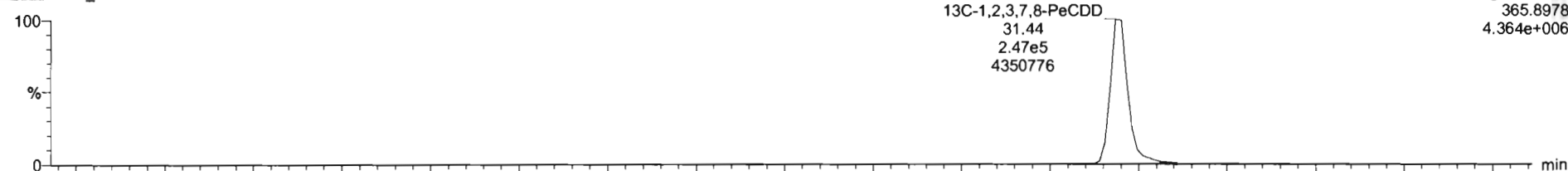


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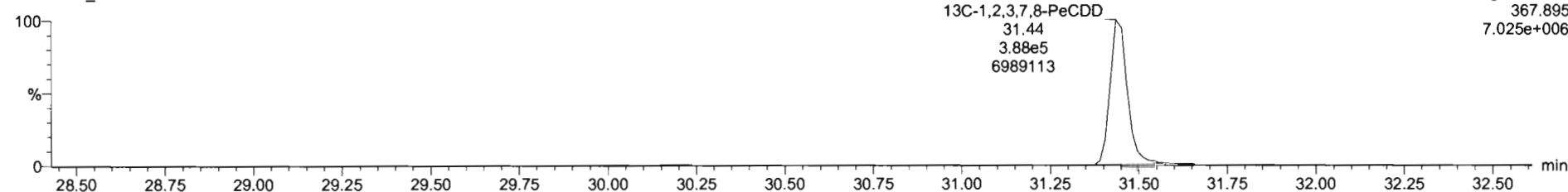


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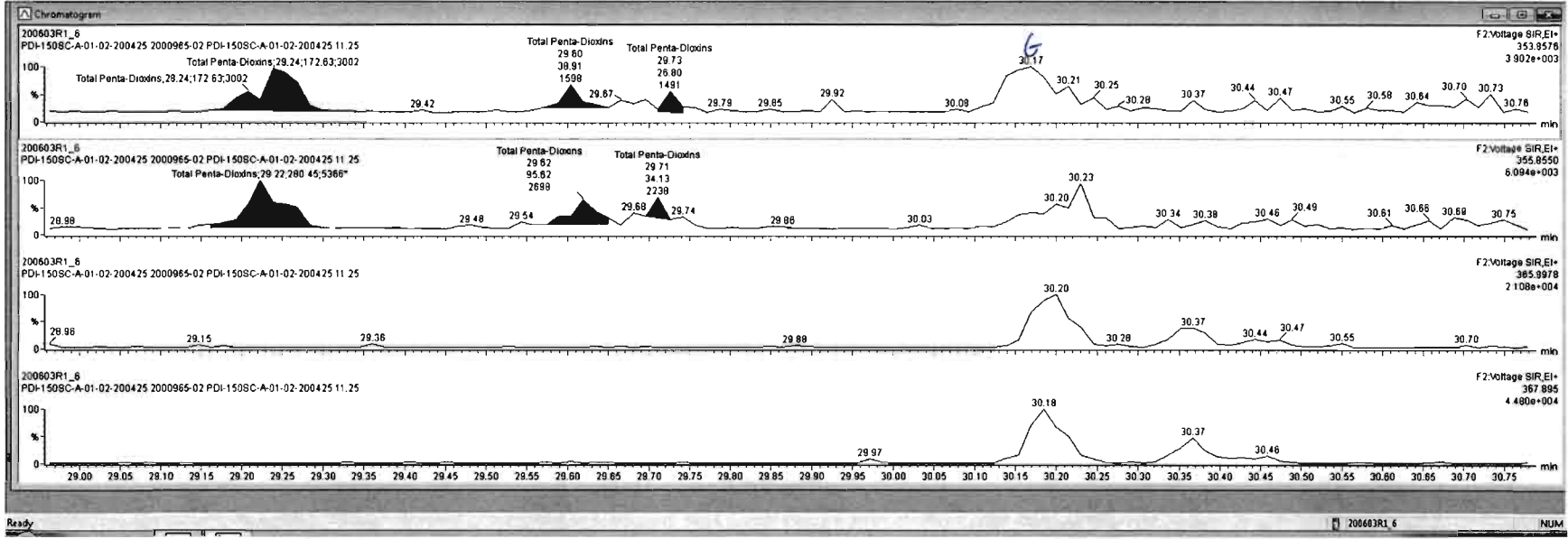


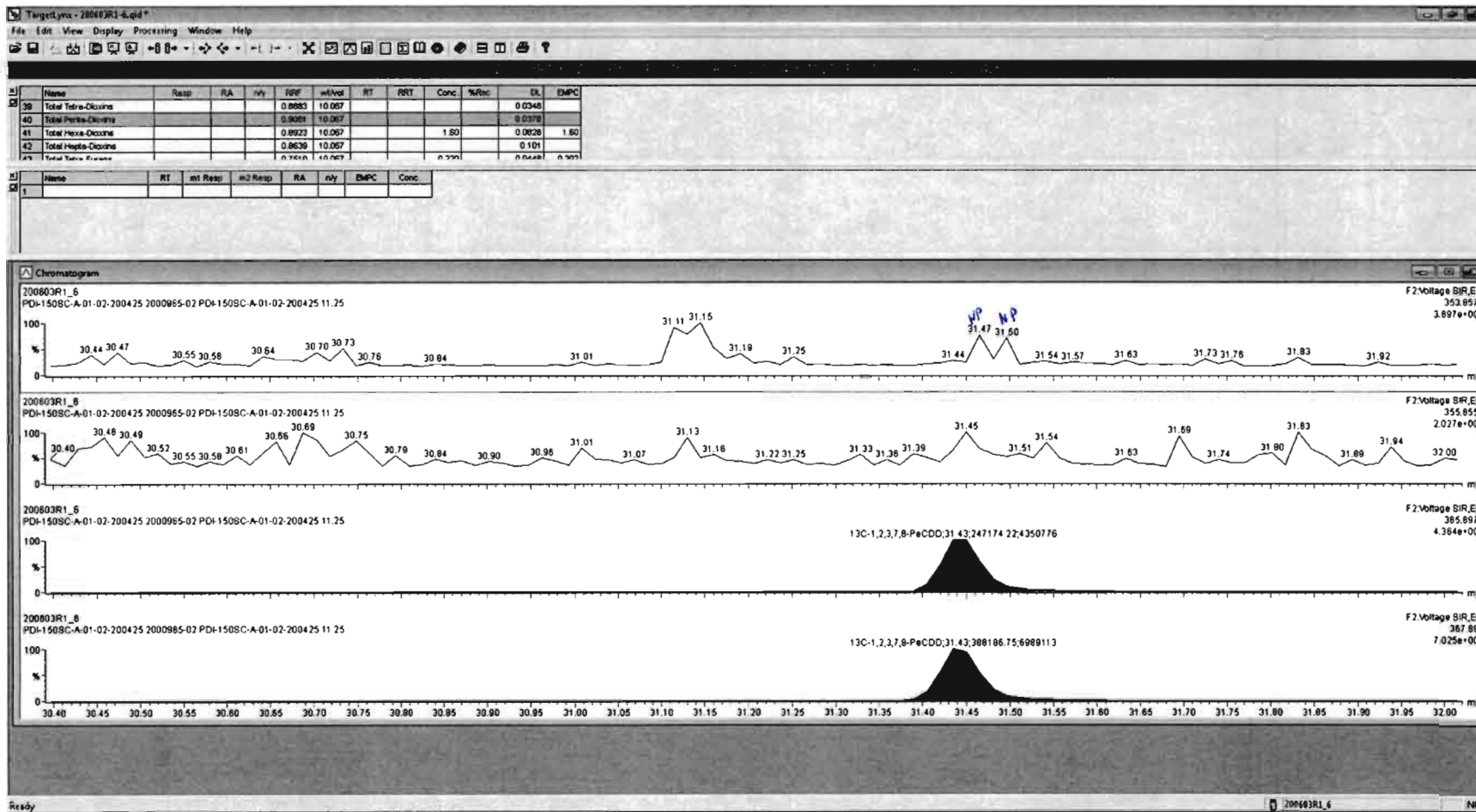
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Name	Resp	RA	n/y	RRT	m/Avd	RT	RRT	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins			0.9081	10.067			0.152		0.0618	0.218
41	Total Hexa-Dioxins			0.8923	10.067			0.873		0.0828	0.787
42	Total Hepta-Dioxins			0.8638	10.067			5.14		0.0000	5.14
43	Total Tetra-Furans			0.7510	10.067			0.220		0.0448	0.432
44	1st Func. Penta-Furans			0.8825	10.067			0.952		0.0220	0.952
45	Total Penta-Furans			0.8825	10.067			0.328		0.0446	0.822
46	Total Hexa-Furans			0.9341	10.067			1.47		0.0534	1.61
47	Total Hepta-Furans			0.8734	10.067			4.00		0.137	4.00
48	PFK1										
49	PFK2										

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.24	1.726e2	2.985e2	0.58	NO	0.16221
2	Total Penta-Dioxins	29.60	3.891e1	9.562e1	0.41	YES	0.034682
3	Total Penta-Dioxins	29.73	2.880e1	3.413e1	0.79	YES	0.019158





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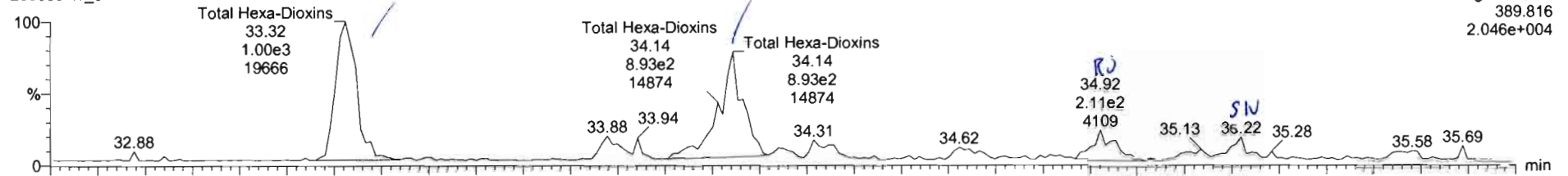
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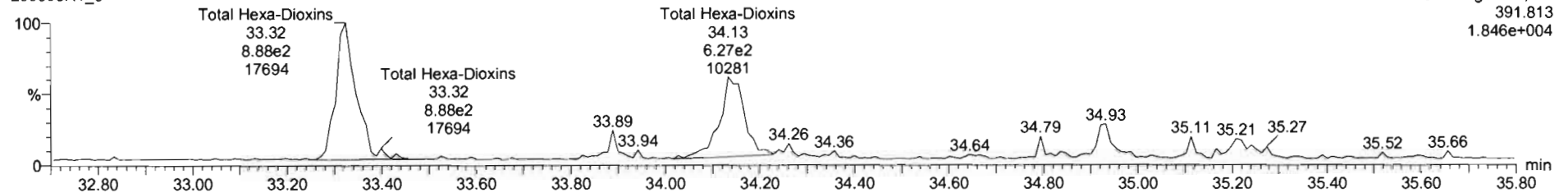
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1,2,3,4,7,8-HxCDD

200603R1_6

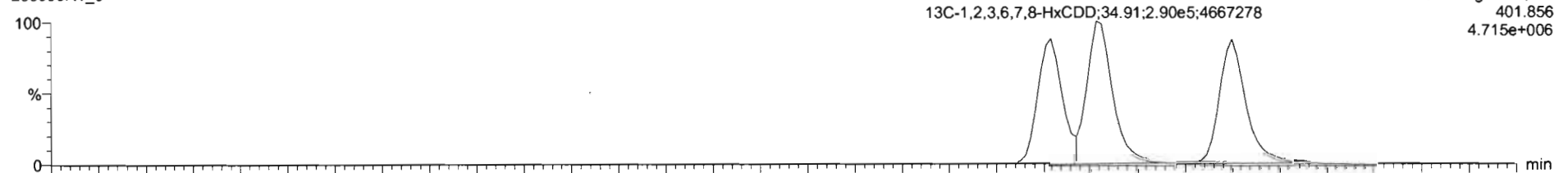


200603R1_6

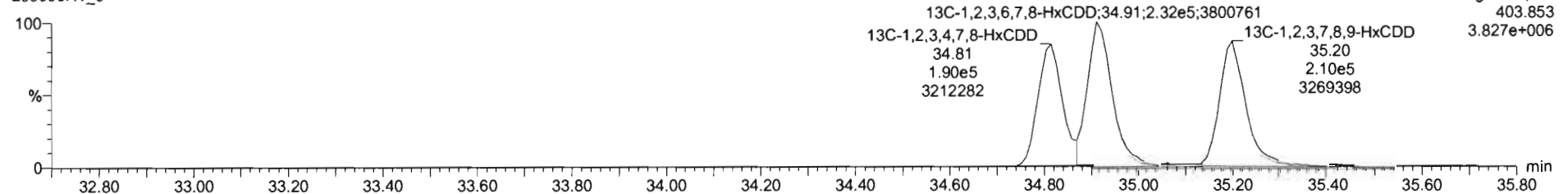


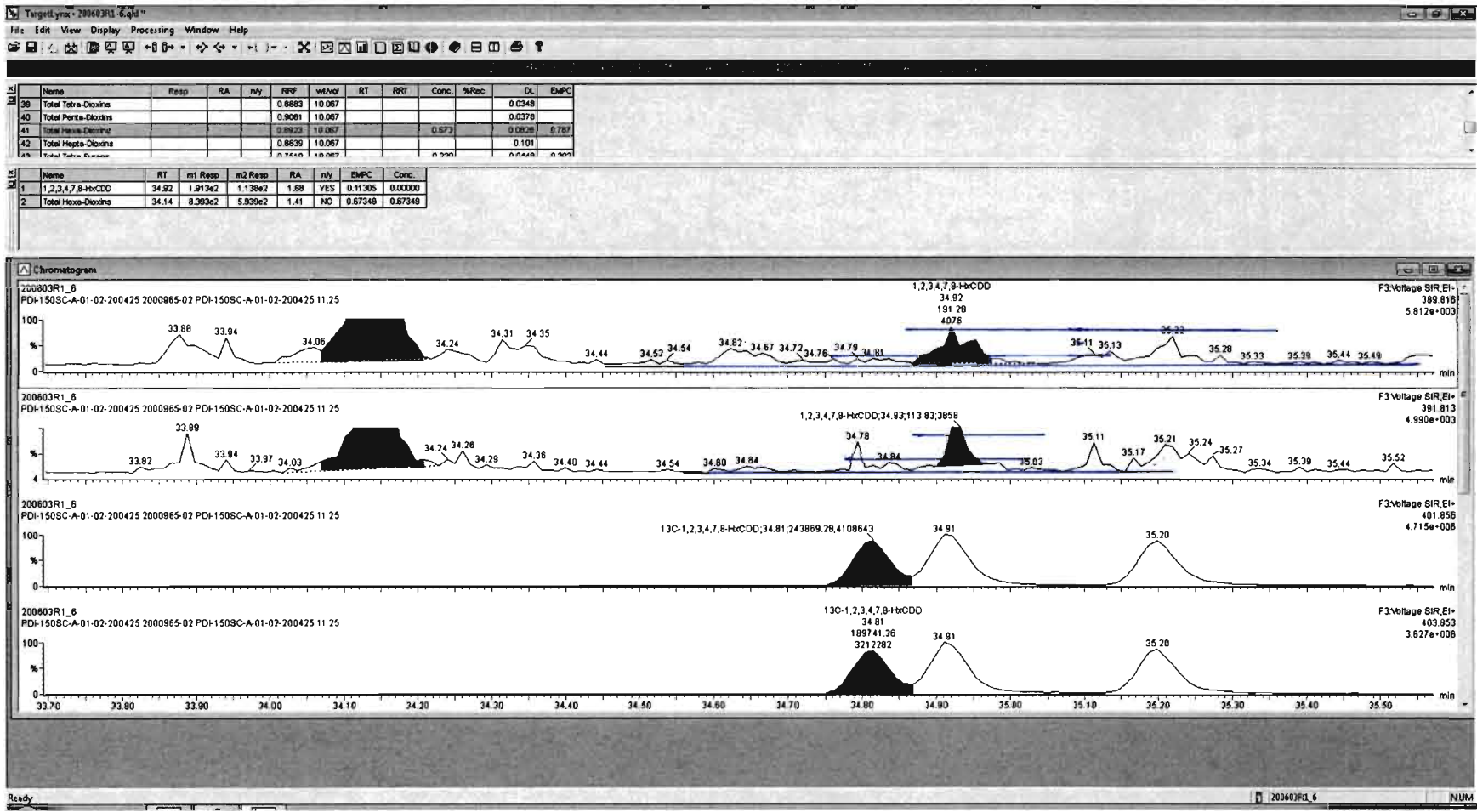
13C-1,2,3,4,7,8-HxCDD

200603R1_6



200603R1_6

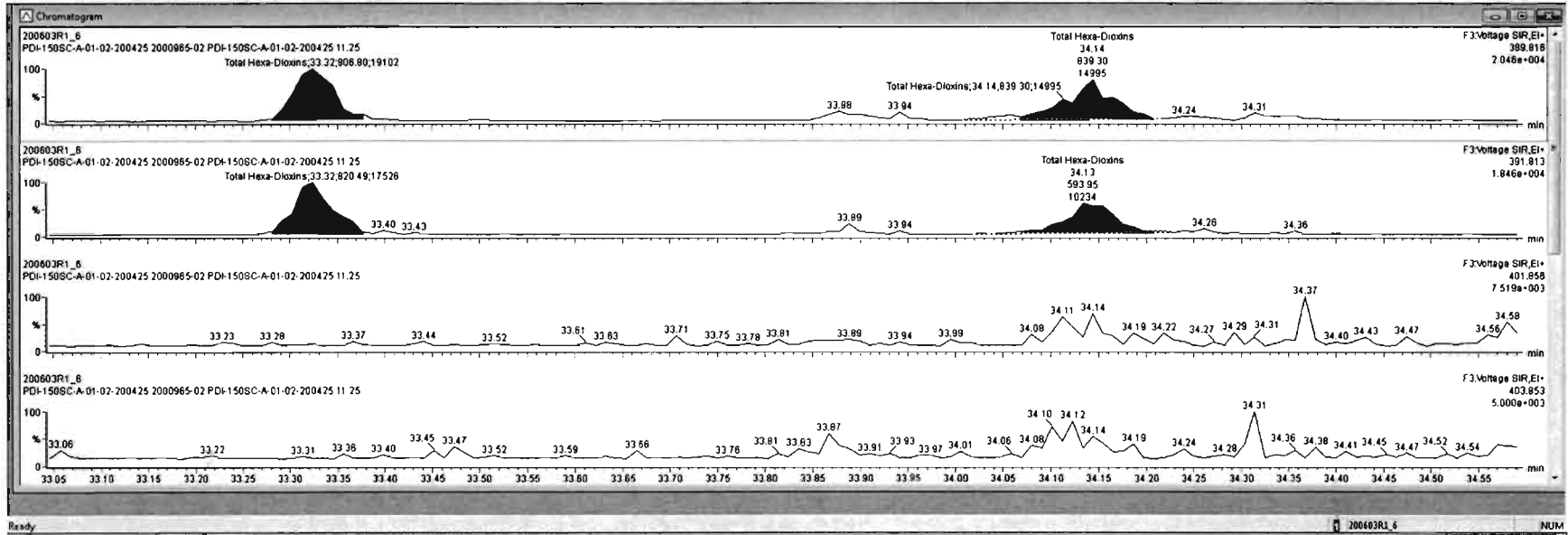




Targetlynx - 200603R1-6.q1a*
 File Edit View Display Processing Window Help

#	Name	Resp	RA	n/y	RRF	Vol/Vol	RT	RRF	Conc	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9081	10.067			0.156		0.0616	0.210
41	Total Hexa-Dioxins				0.8923	10.067			1.49		0.0628	1.80
42	Total Hepta-Dioxins				0.8639	10.067			5.14		0.00300	5.14
43	Total Tetra-Furans				0.7510	10.067			0.220		0.0448	0.432
44	1st Func. Penta-Furans				0.8925	10.067			0.952		0.0220	0.952
45	Total Penta-Furans				0.8925	10.067			0.328		0.0446	0.622
46	Total Hexa-Furans				0.9341	10.067			1.47		0.0534	1.61
47	Total Hepta-Furans				0.8734	10.067			4.00		0.137	4.00
48	PFX1											
49	PFX2											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.32	9.068e2	9.205e2	1.11	NO	0.81166	0.81166
2	Total Hexa-Dioxins	34.14	8.393e2	5.939e2	1.41	NO	0.67349	0.67349
3	1,2,3,4,7,8-HxCDD	34.82	1.913e2	1.138e2	1.68	YES	0.11305	0.00000



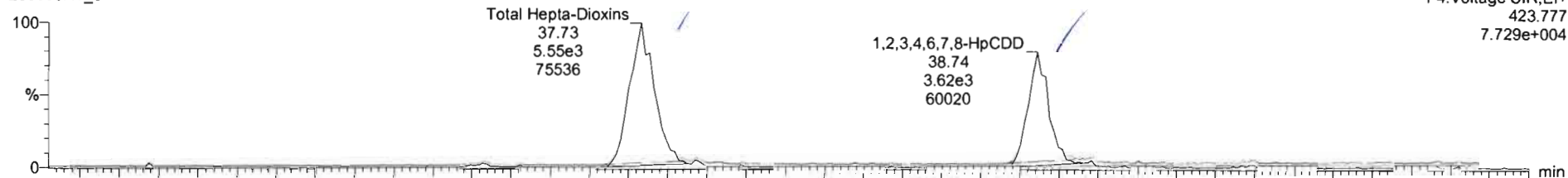
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

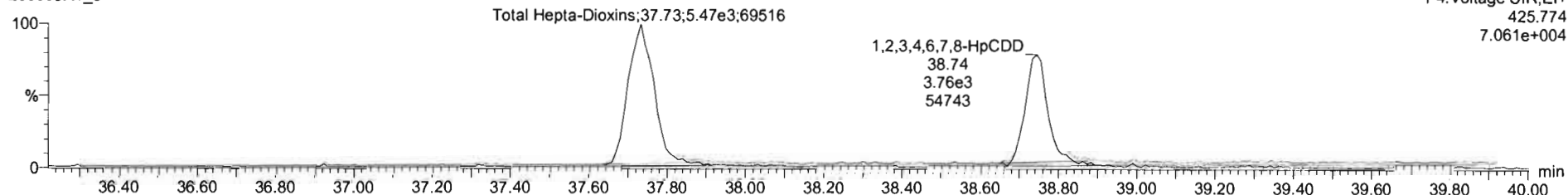
1,2,3,4,6,7,8-HpCDD

200603R1_6



F4:Voltage SIR,EI+
423.777
7.729e+004

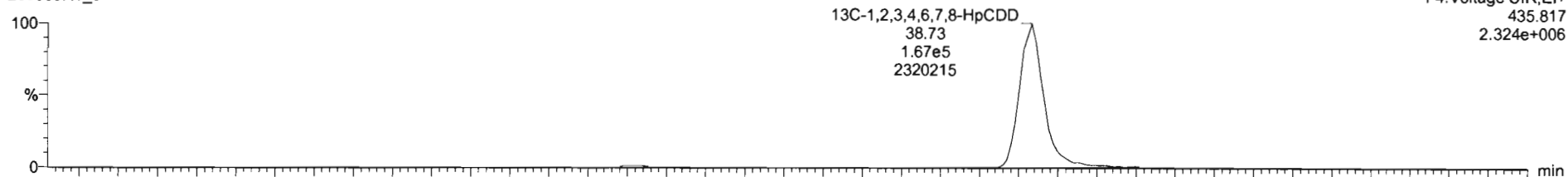
200603R1_6



F4:Voltage SIR,EI+
425.774
7.061e+004

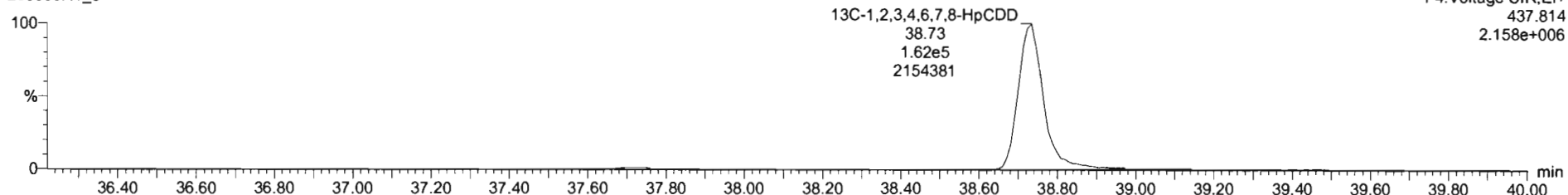
13C-1,2,3,4,6,7,8-HpCDD

200603R1_6

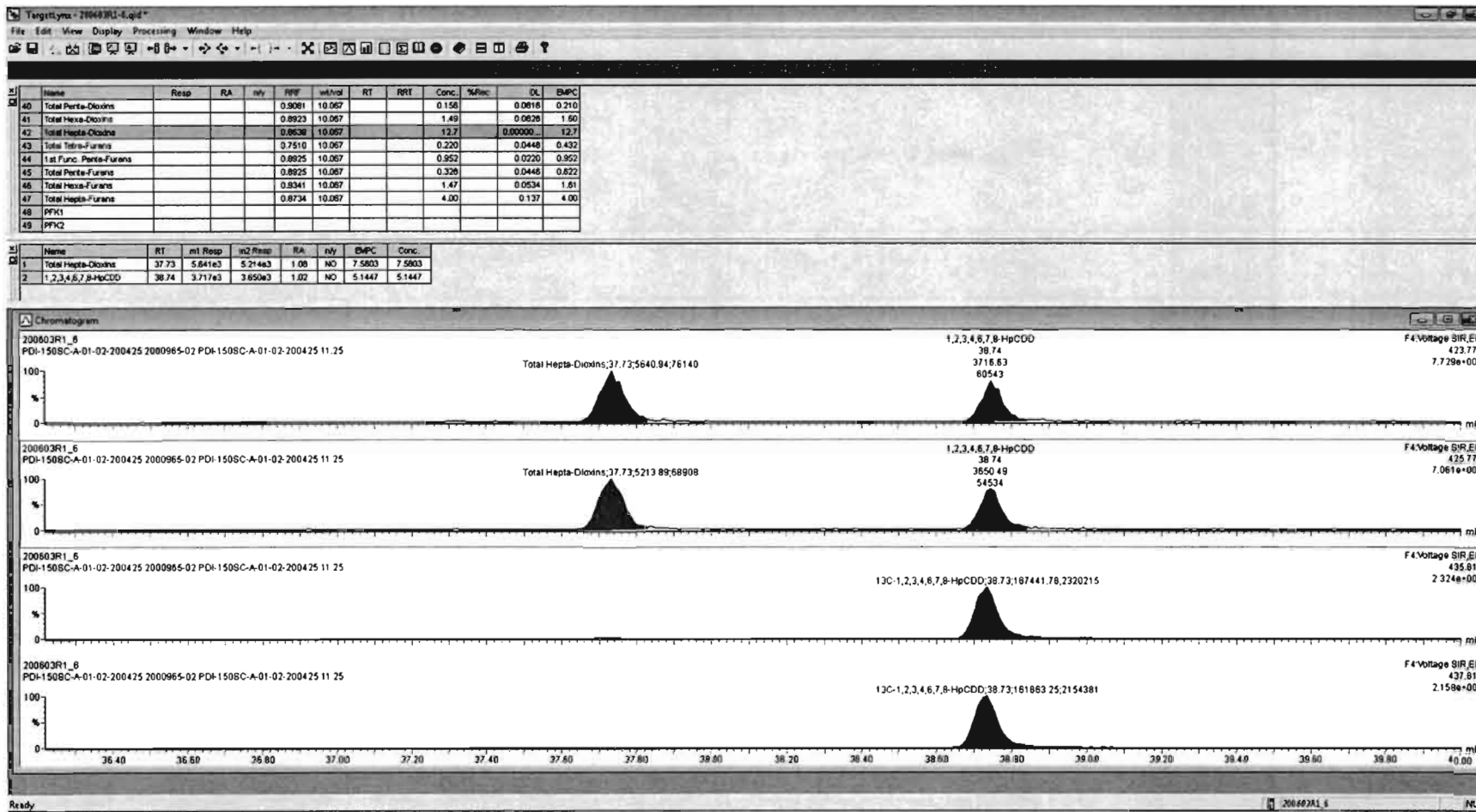


F4:Voltage SIR,EI+
435.817
2.324e+006

200603R1_6



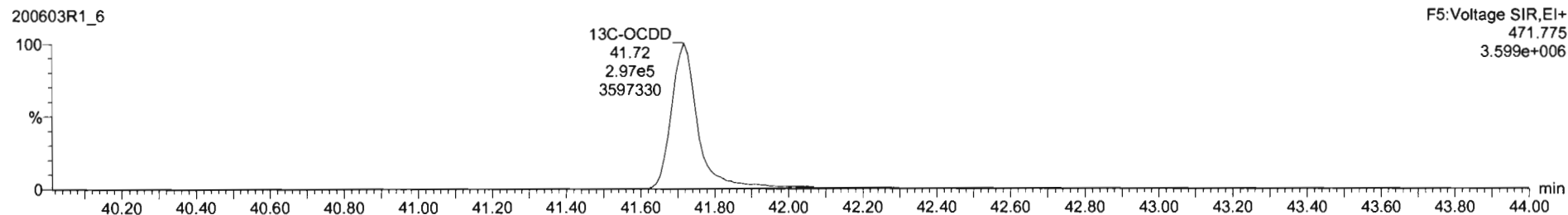
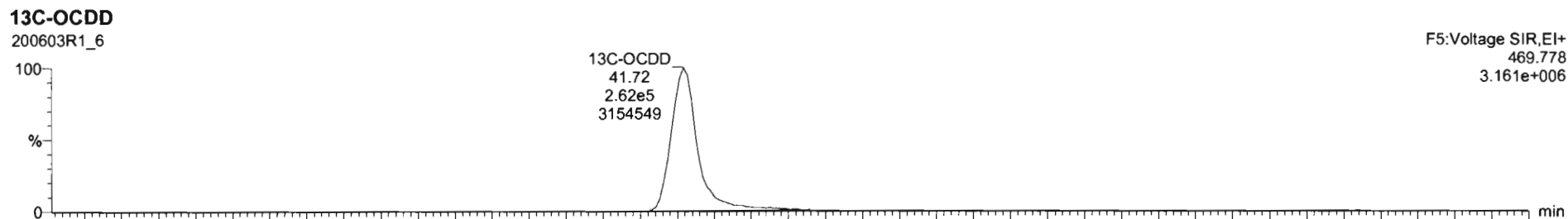
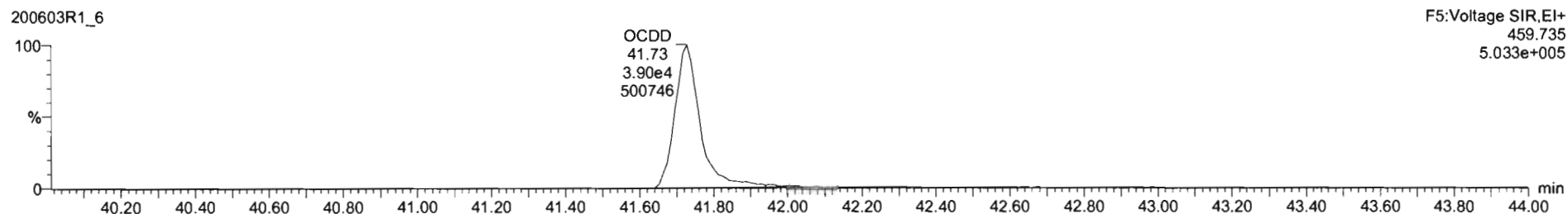
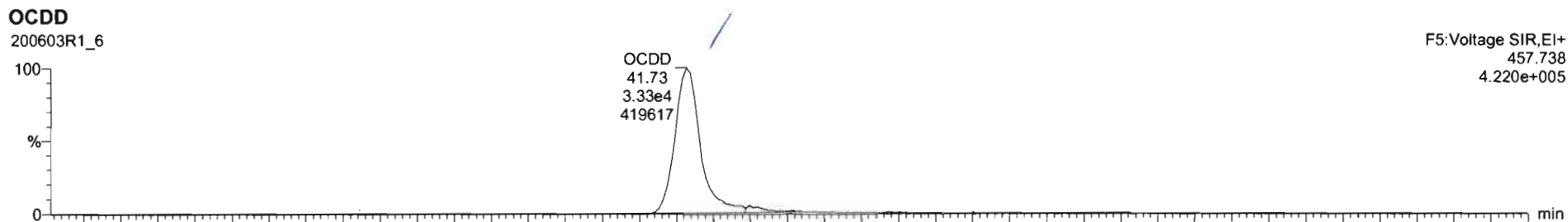
F4:Voltage SIR,EI+
437.814
2.158e+006

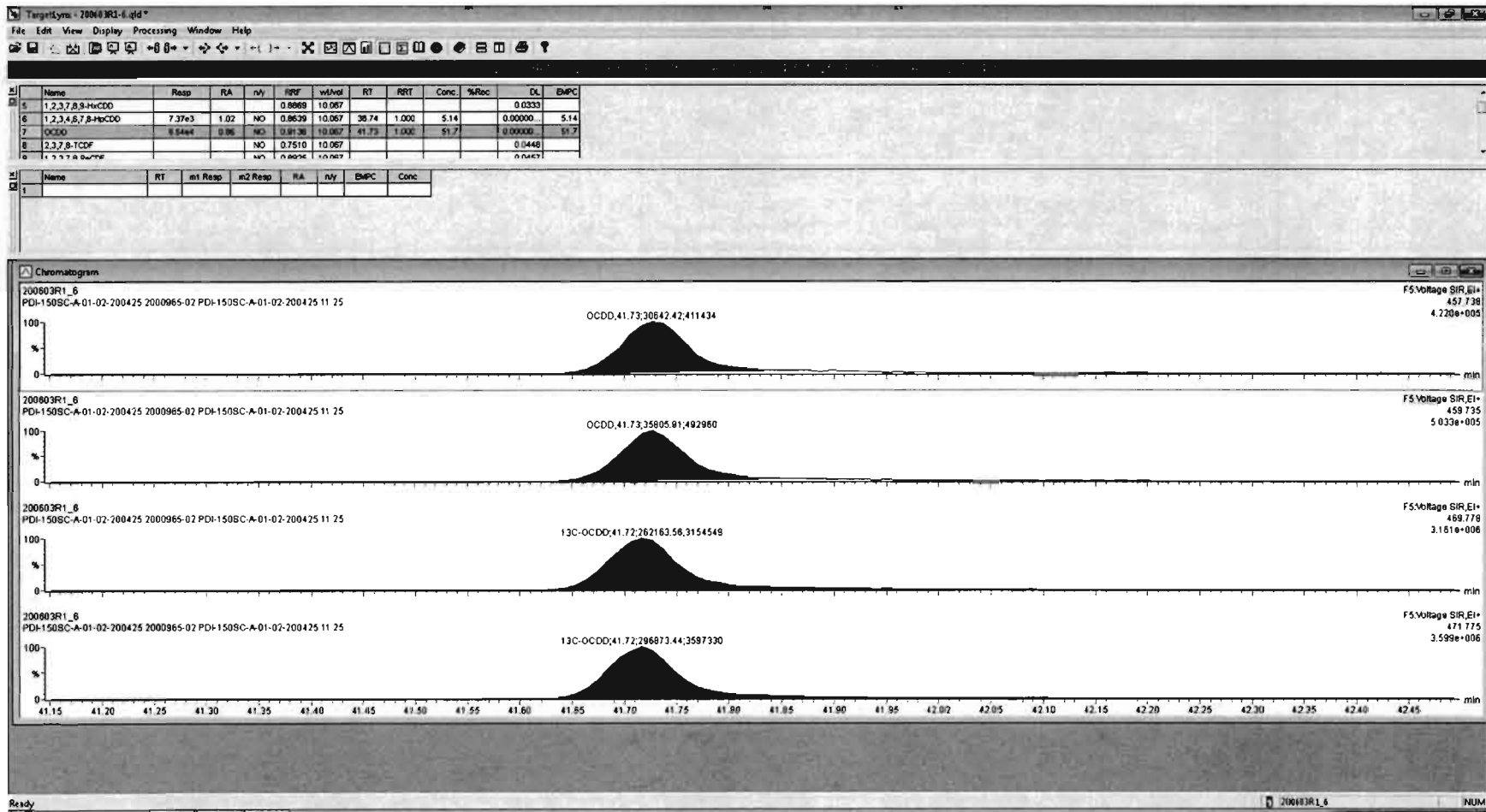


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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425



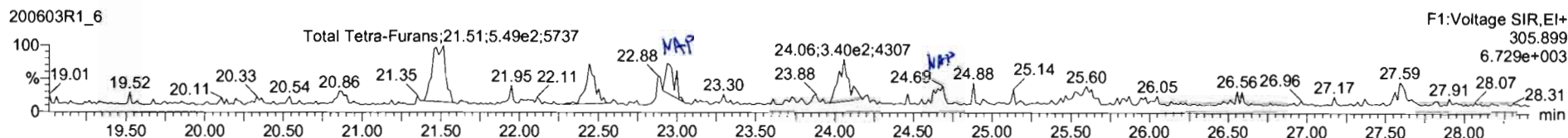
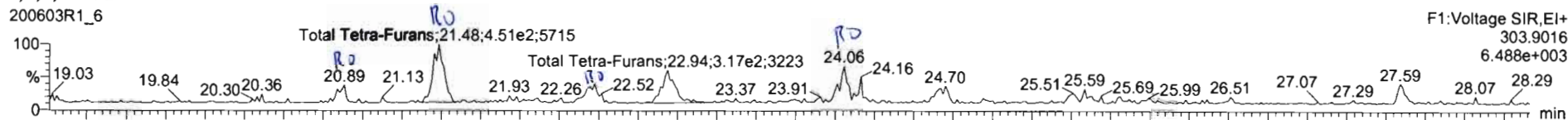


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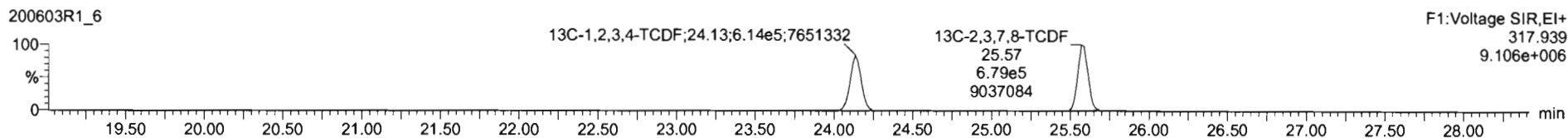
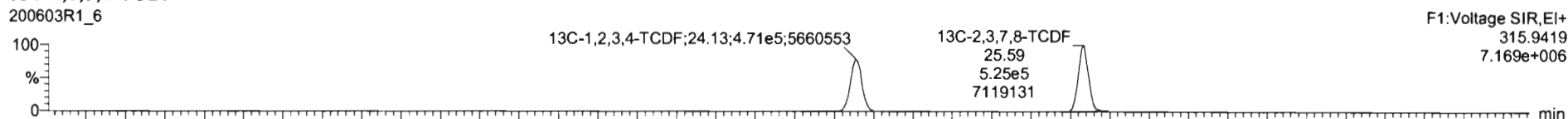
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

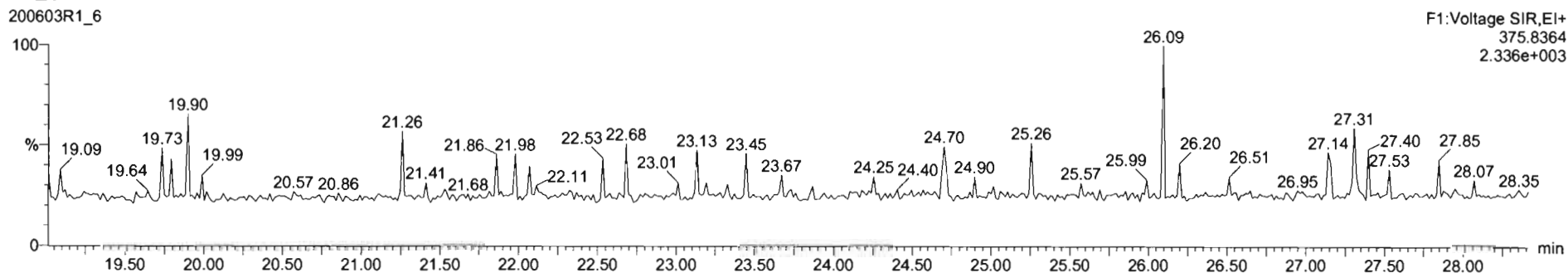
2,3,7,8-TCDF

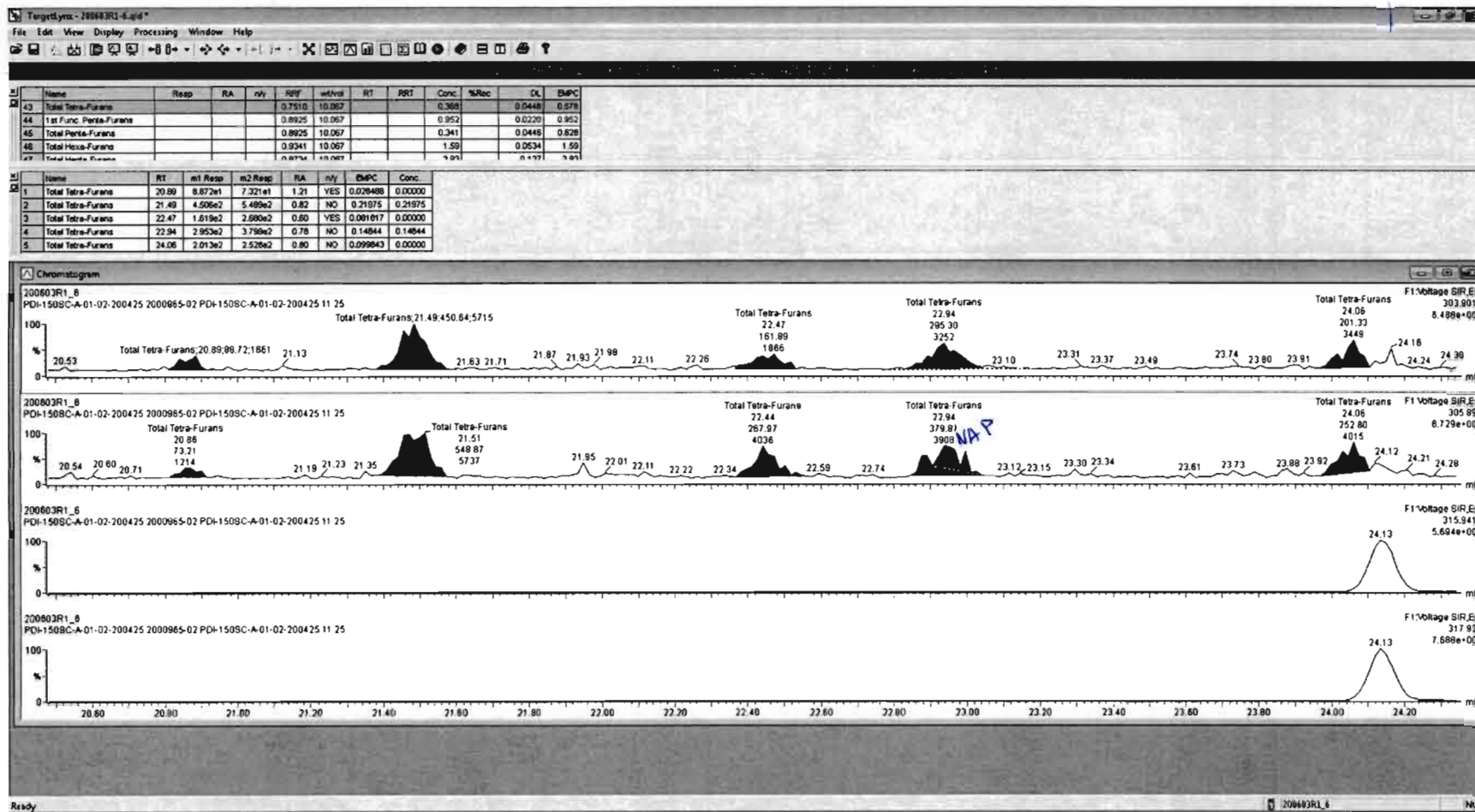


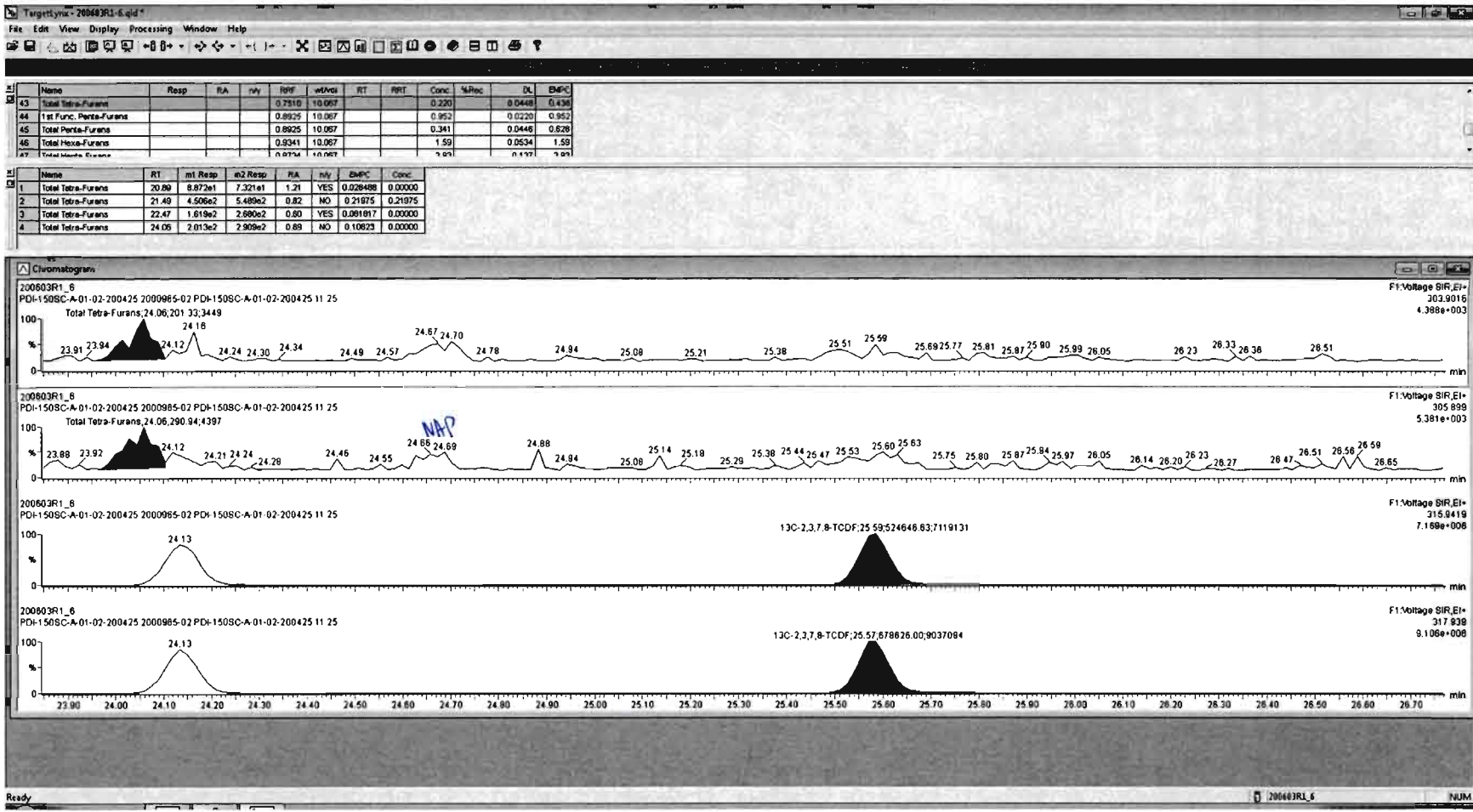
13C-2,3,7,8-TCDF



DPE1







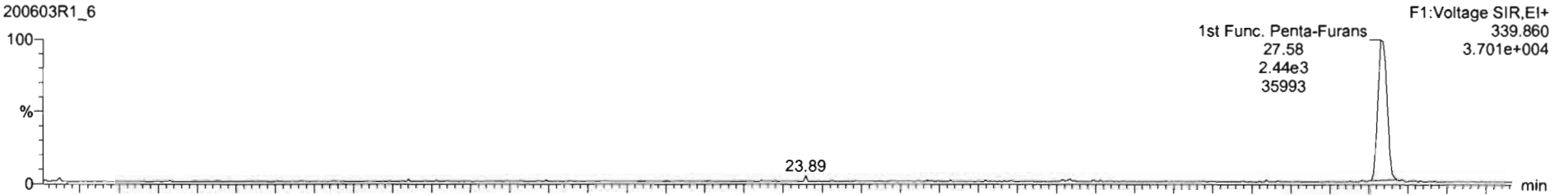
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

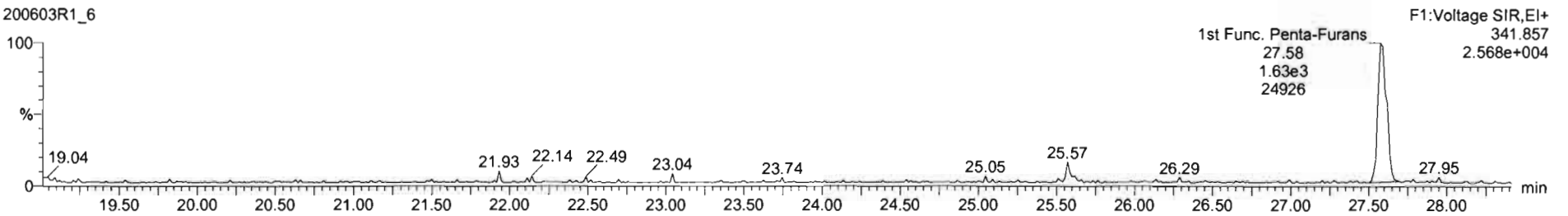
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1st Func. Penta-Furans

200603R1_6

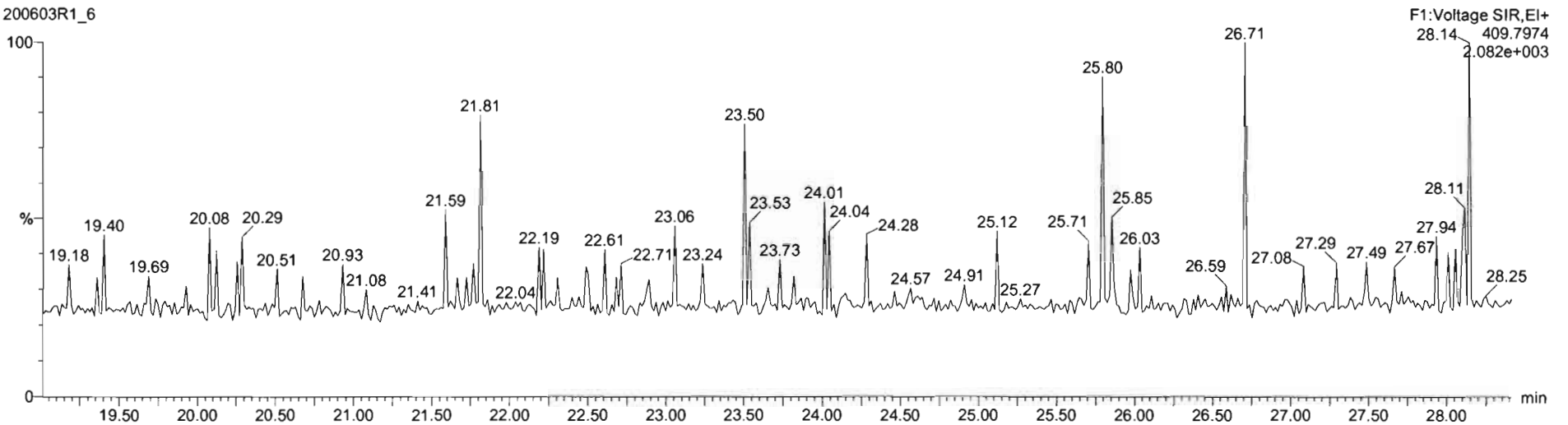


200603R1_6



DPE6

200603R1_6

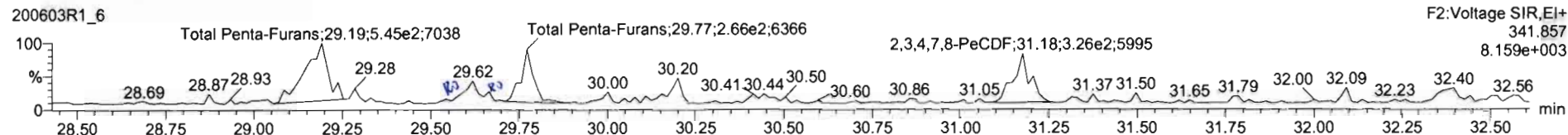
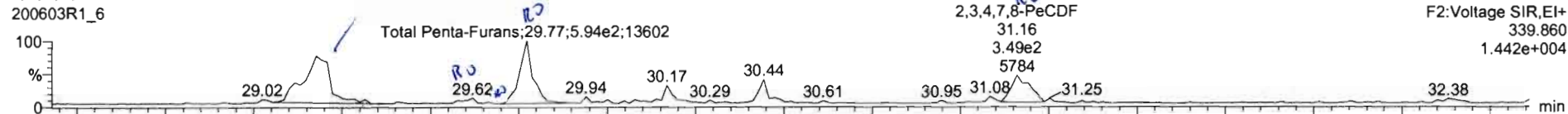


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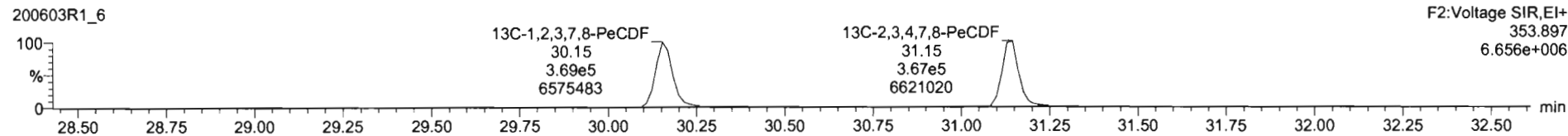
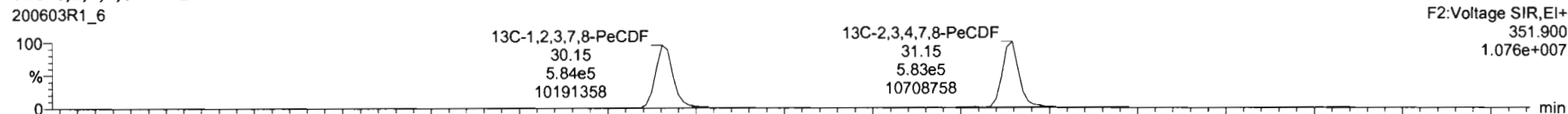
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Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

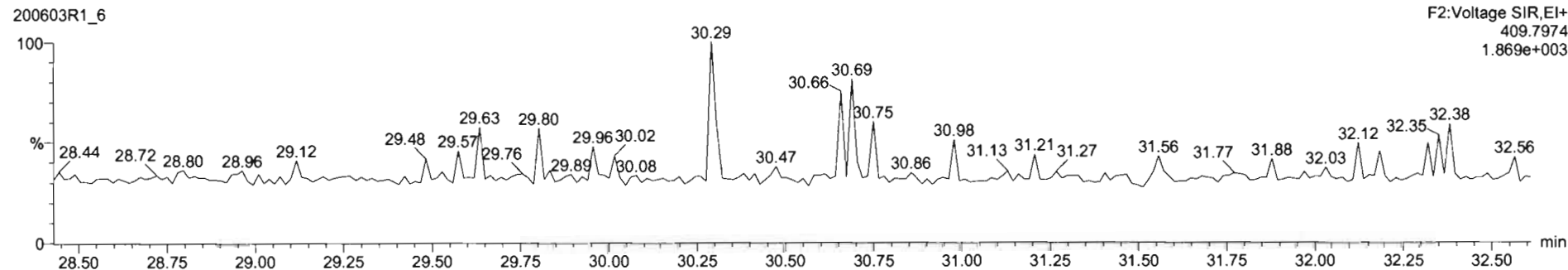
1,2,3,7,8-PeCDF

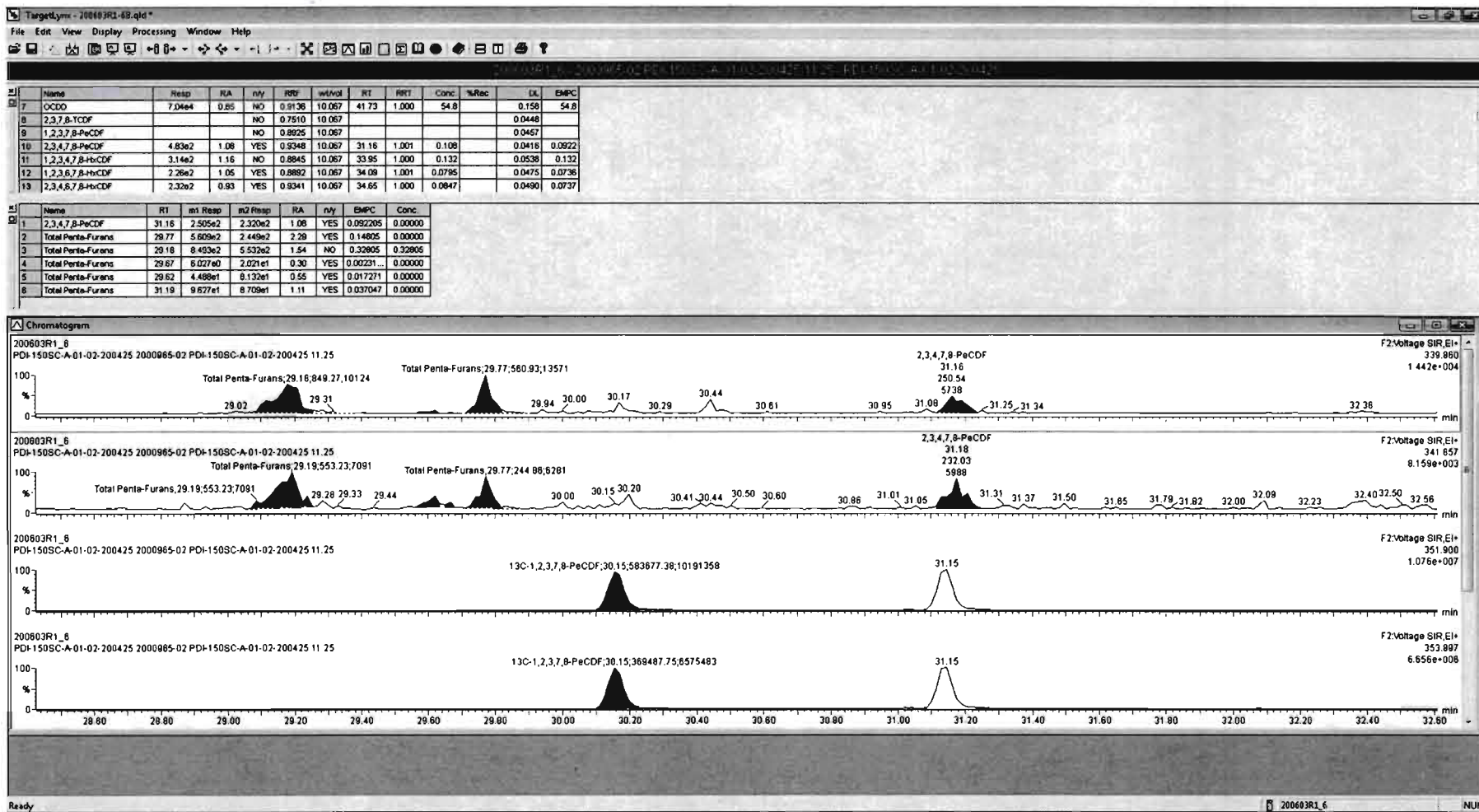


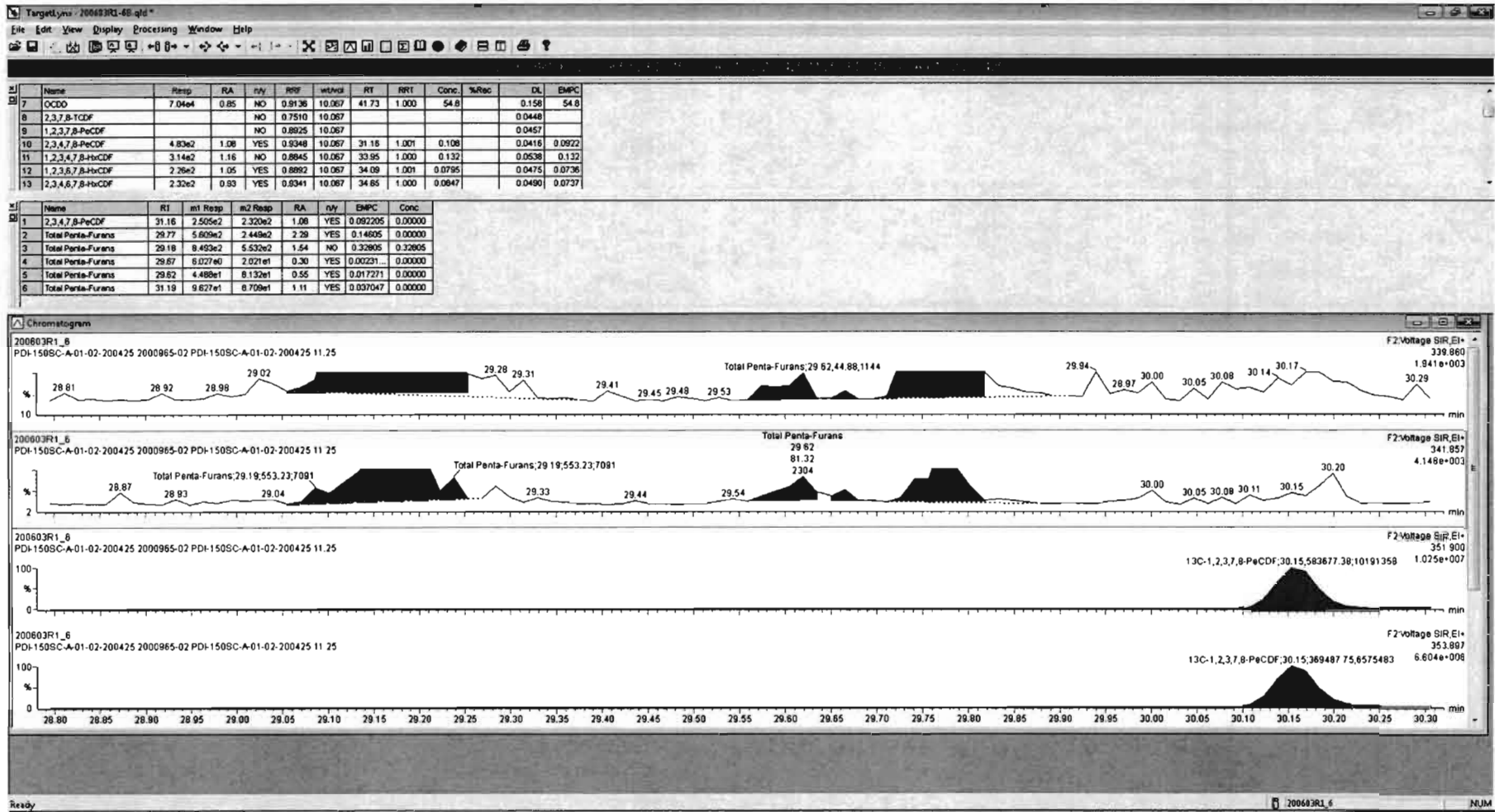
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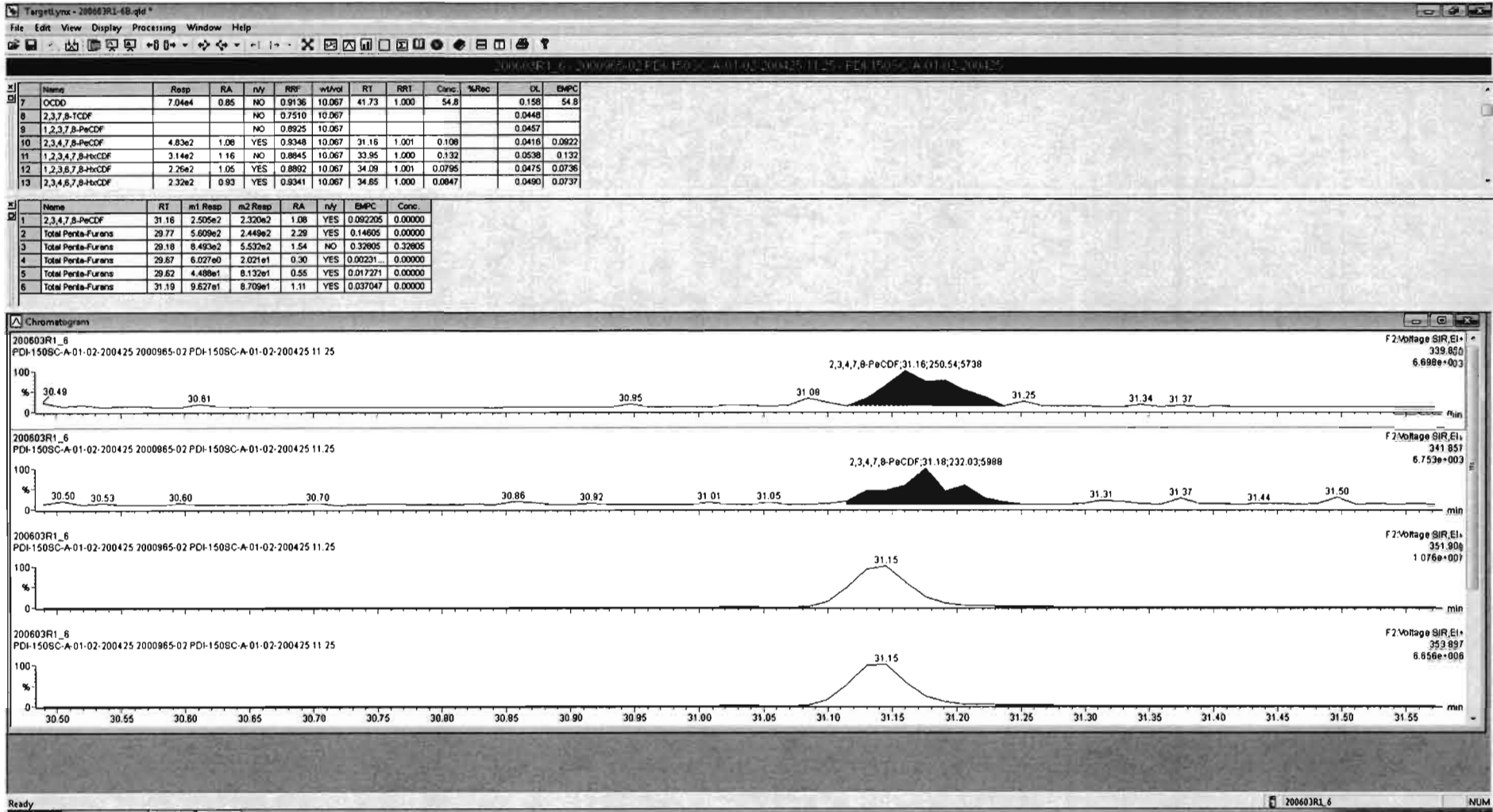


DPE2









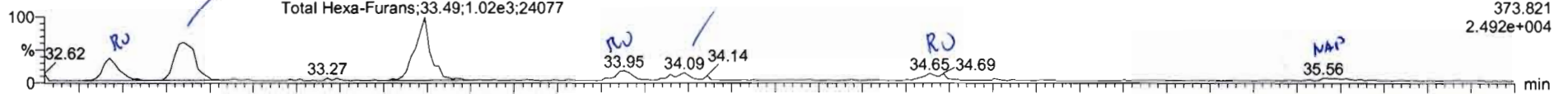
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
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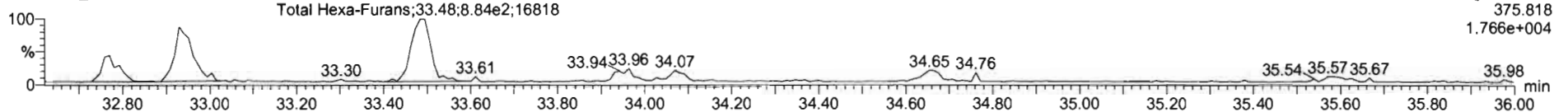
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1,2,3,4,7,8-HxCDF

200603R1_6

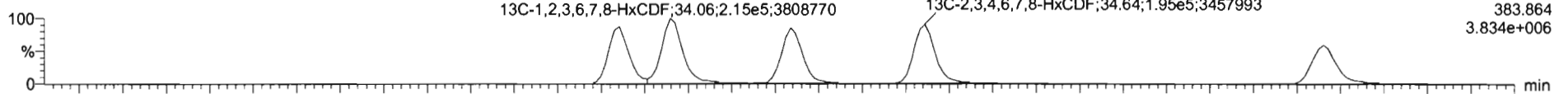


200603R1_6

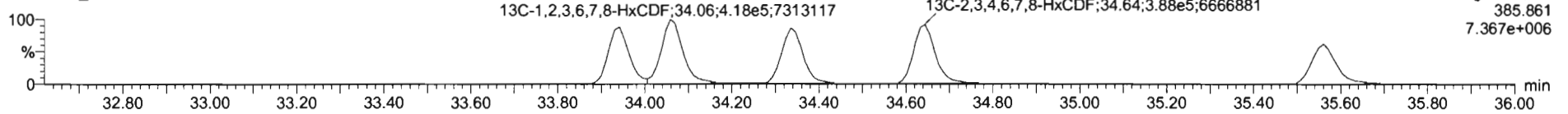


13C-1,2,3,4,7,8-HxCDF

200603R1_6

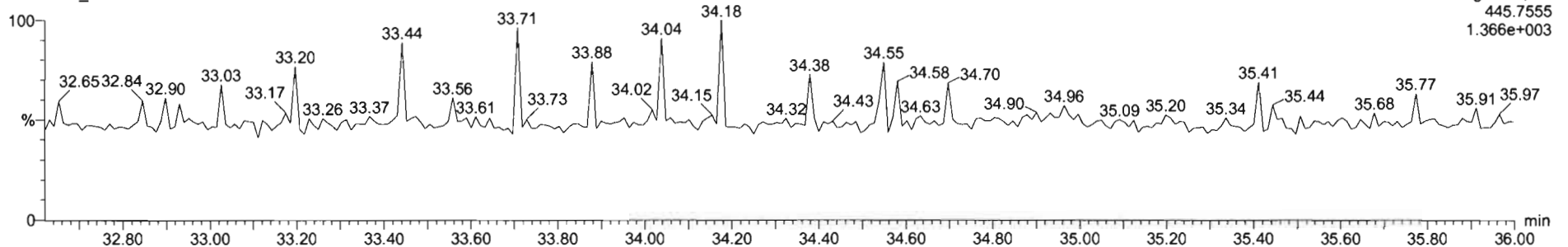


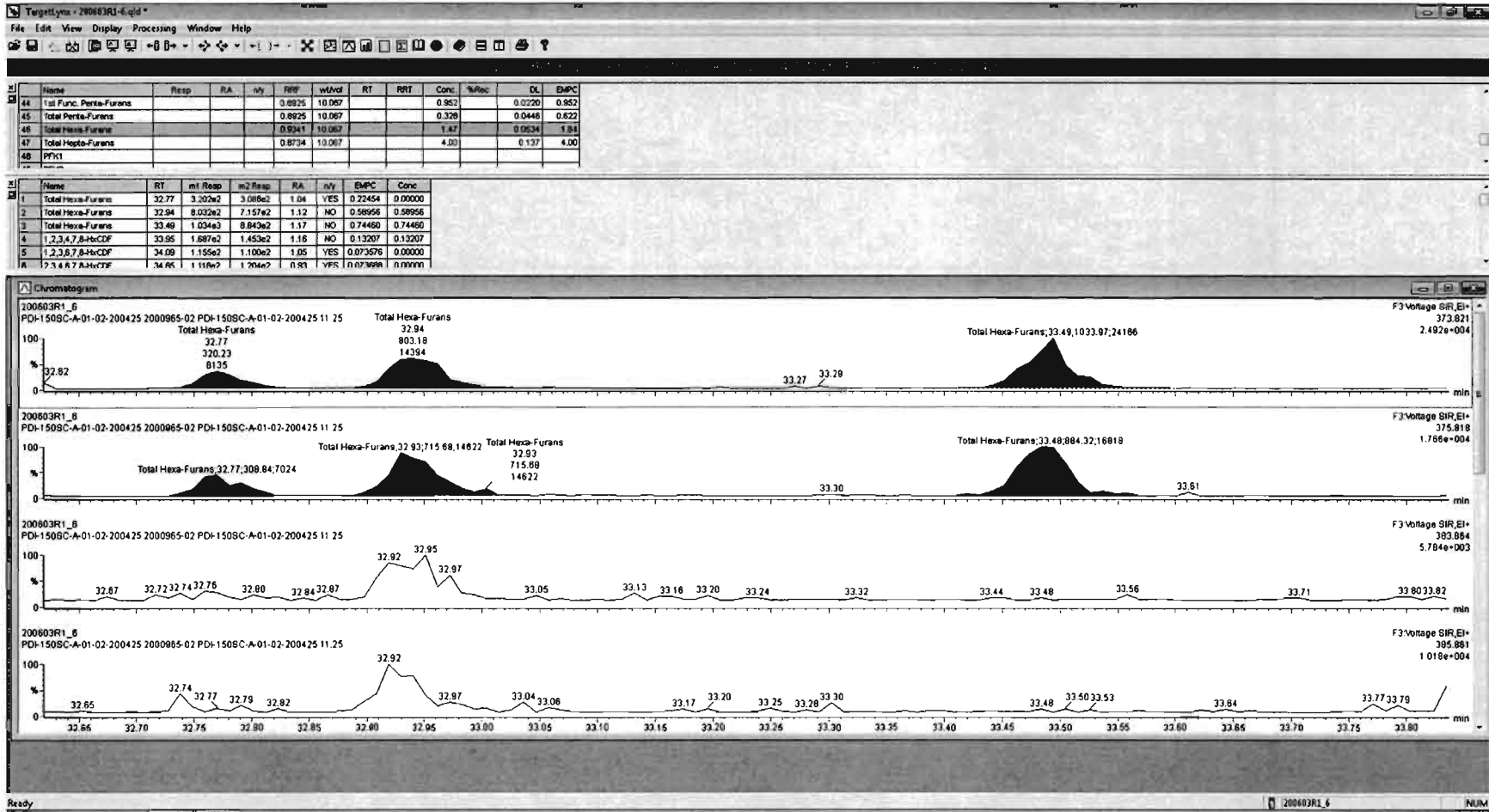
200603R1_6



DPE3

200603R1_6



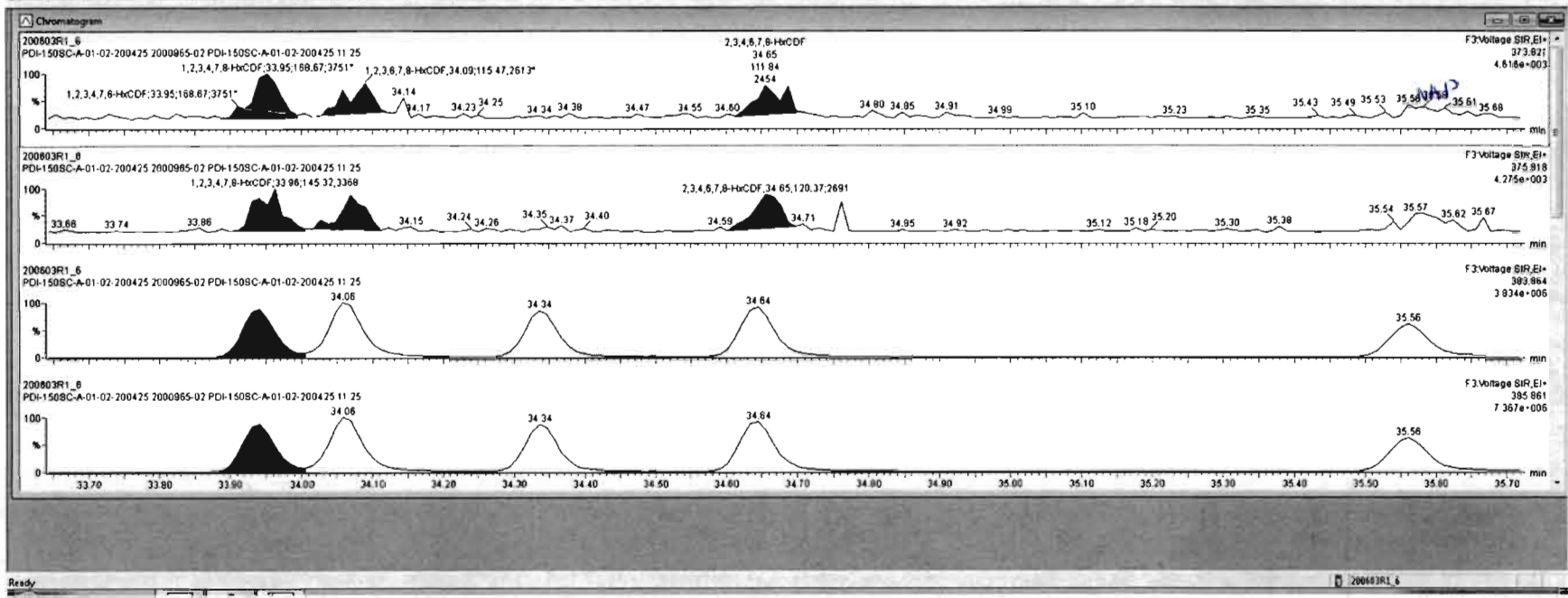


Targetlyn - 20043R1-6.qld*

File Edit View Display Processing Window Help

Name	Resp	RA	nHy	RRF	mlVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7510	10.067			0.220	0.0448	0.438	
44 1st Furc. Penta-Furans				0.8925	10.067			0.952	0.0220	0.952	
45 Total Penta-Furans				0.8925	10.067			0.328	0.0448	0.822	
46 Total Hexa-Furans				0.9341	10.067			1.41	0.0534	1.57	
47 Total Hepta-Furans				0.8754	10.067			0.05	0.0132	0.03	

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc
1 Total Hexa-Furans	32.94	8.032e2	7.157e2	1.12	NO	0.58956	0.58956
2 Total Hexa-Furans	33.49	1.034e3	8.843e2	1.17	NO	0.74460	0.74460
3 1,2,3,4,7,8-HxCDF	33.95	1.120e2	1.453e2	0.77	YES	0.095113	0.00000
4 1,2,3,6,7,8-HxCDF	34.09	1.181e2	1.100e2	1.06	NO	0.079776	0.079776
5 2,3,4,6,7,8-HxCDF	34.65	1.118e2	1.204e2	0.93	YES	0.073688	0.00000

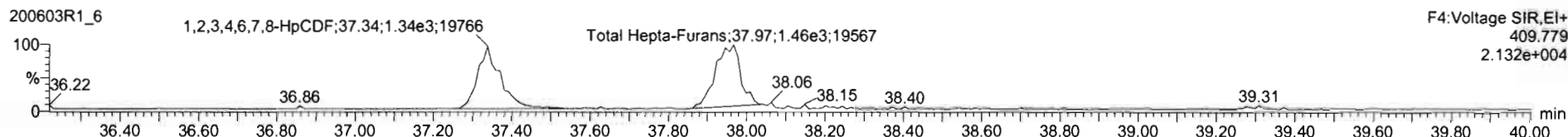
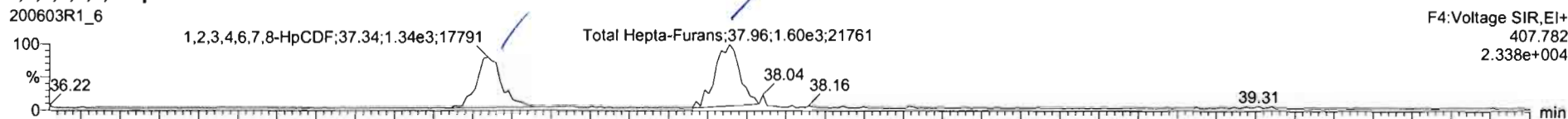


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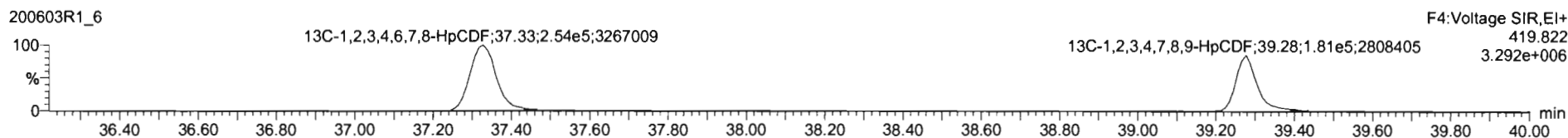
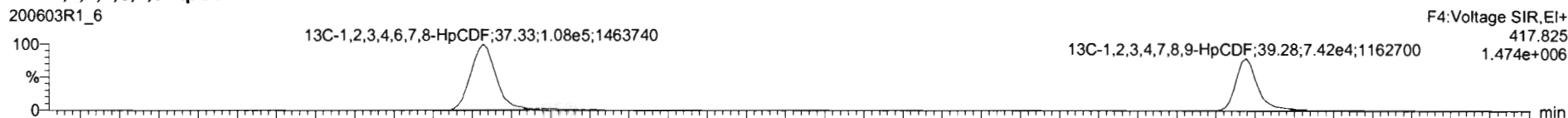
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

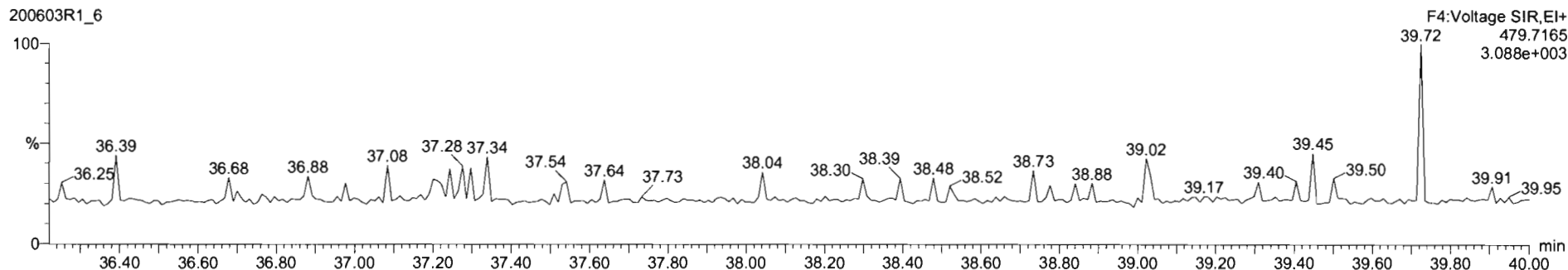
1,2,3,4,6,7,8-HpCDF

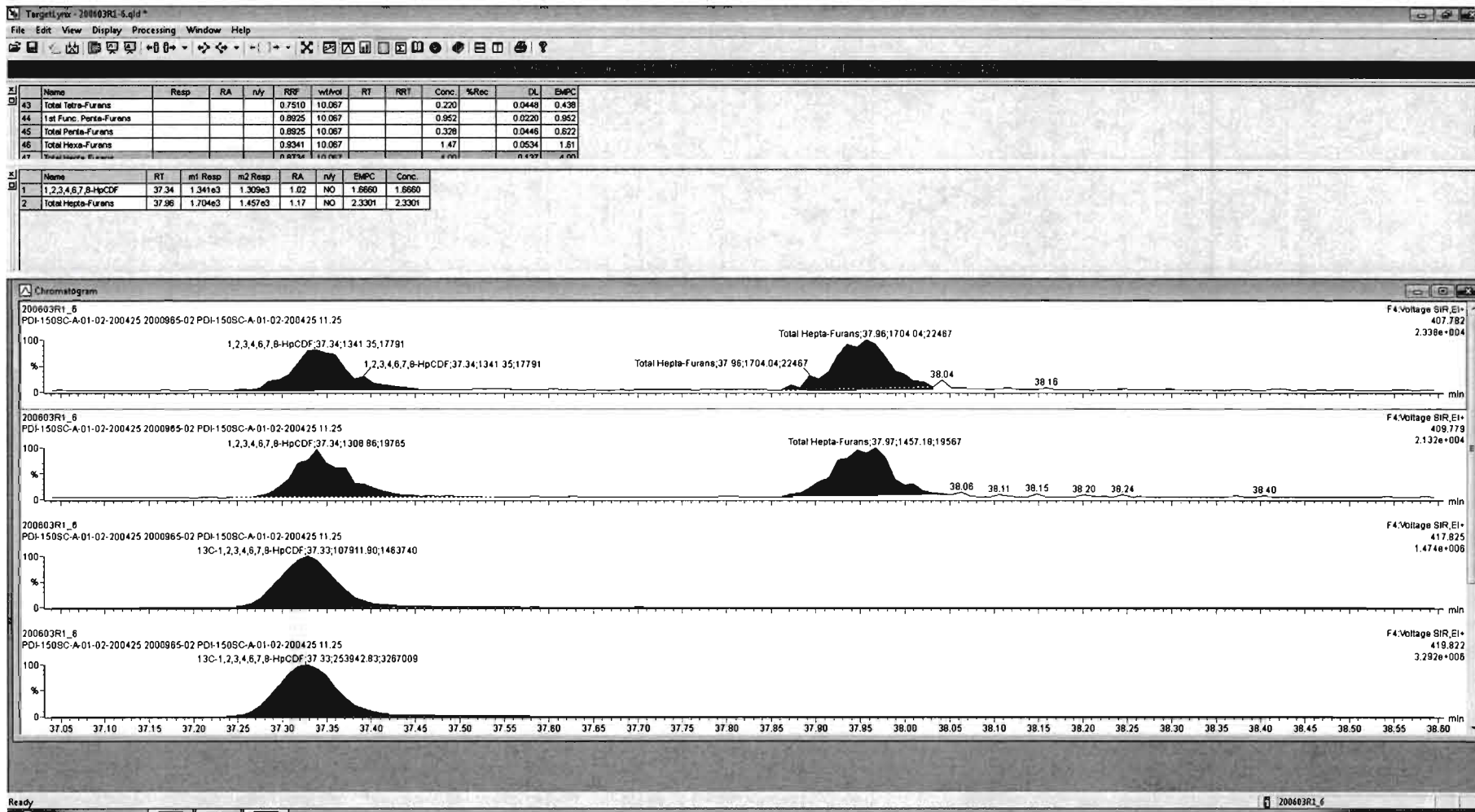


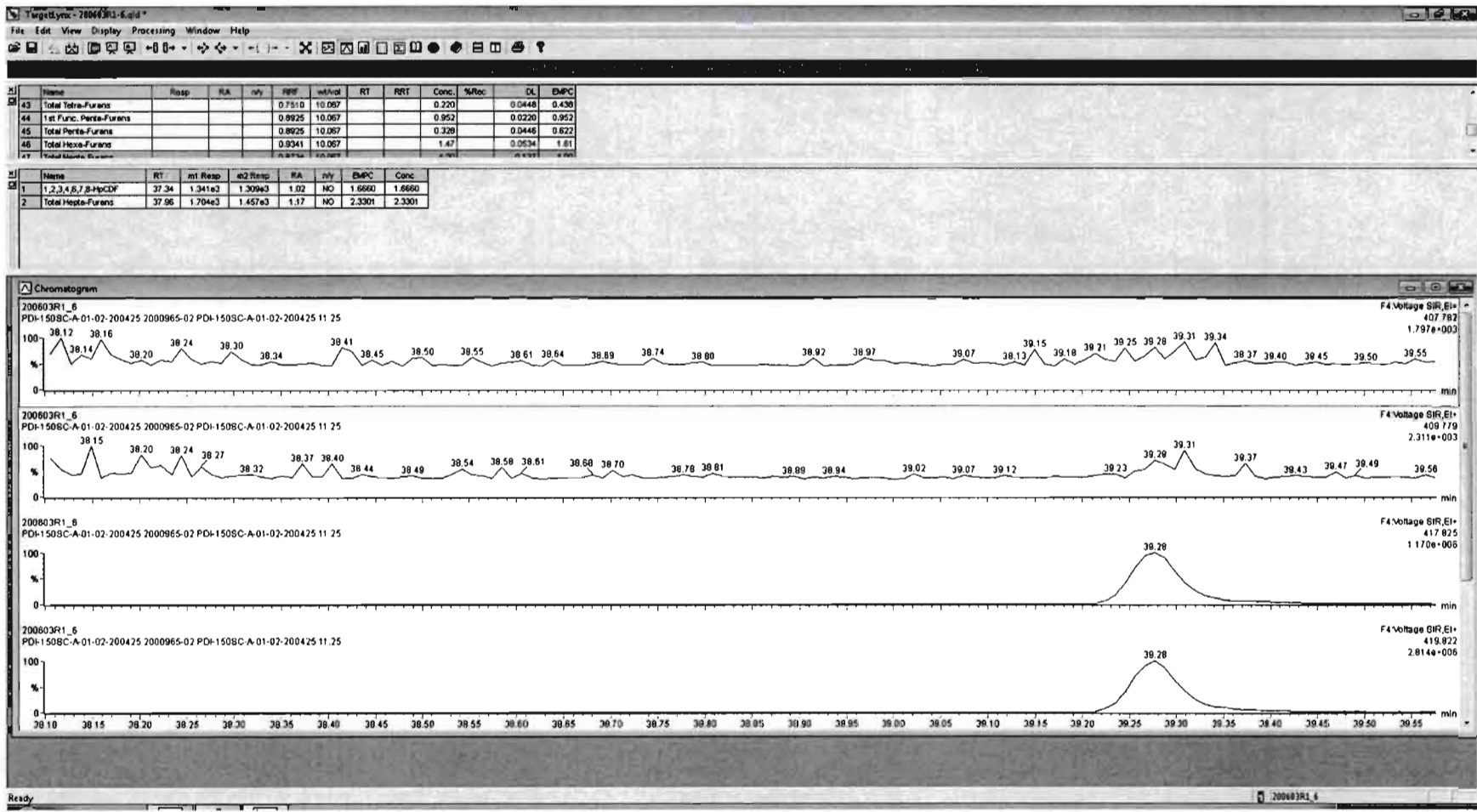
13C-1,2,3,4,6,7,8-HpCDF



DPE4



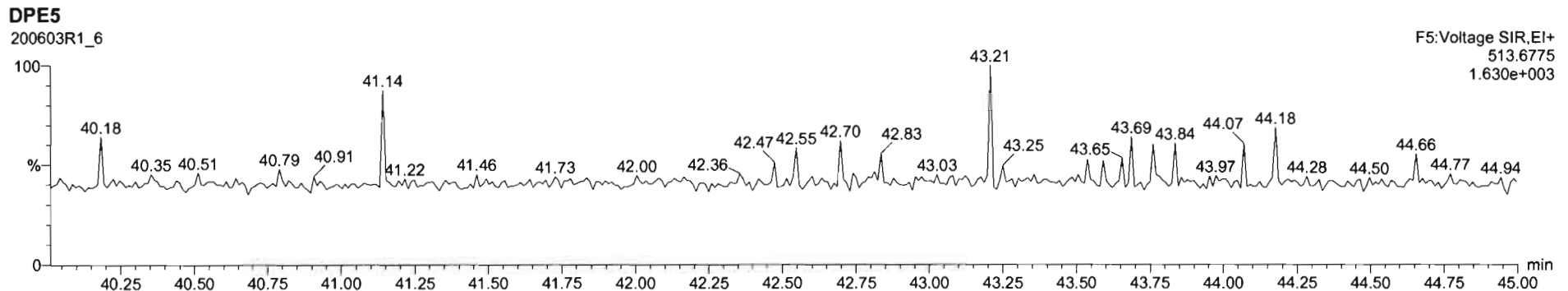
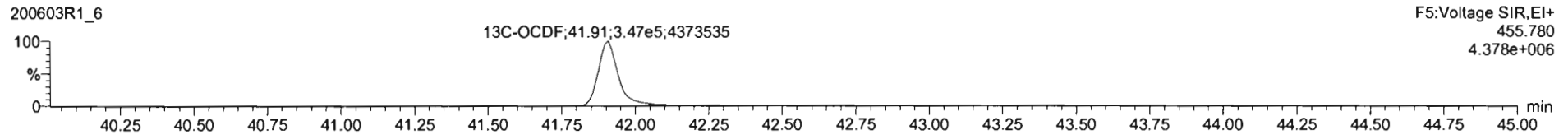
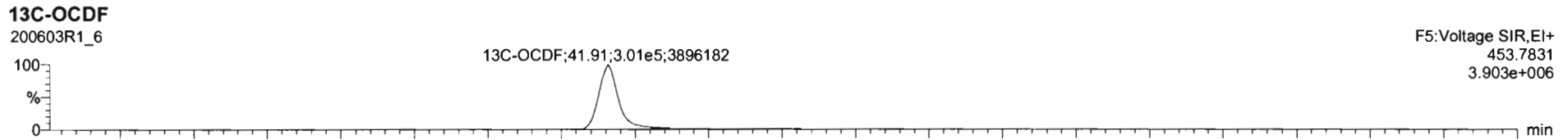
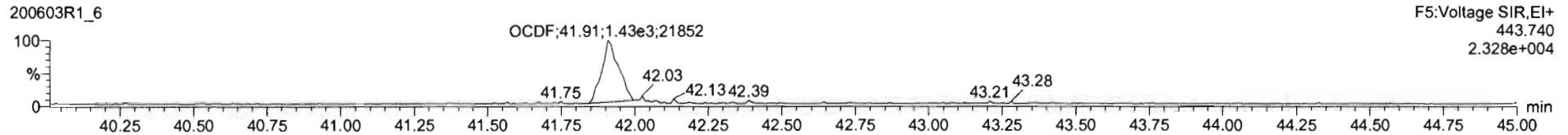
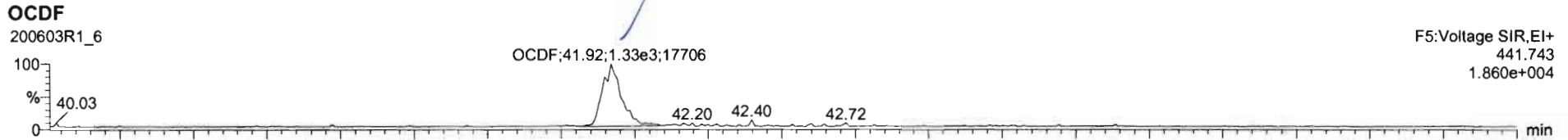


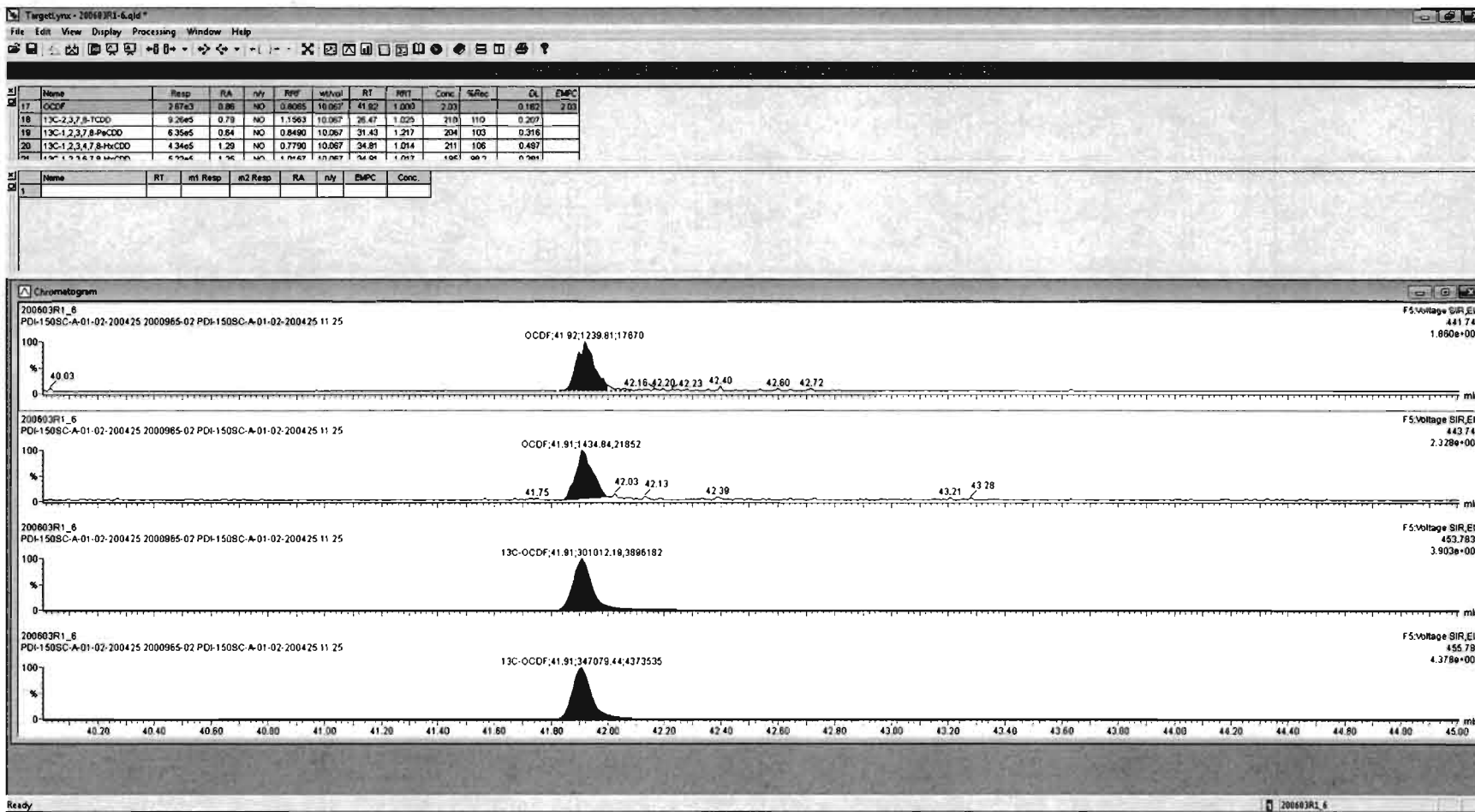


Dataset: Untitled

Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425



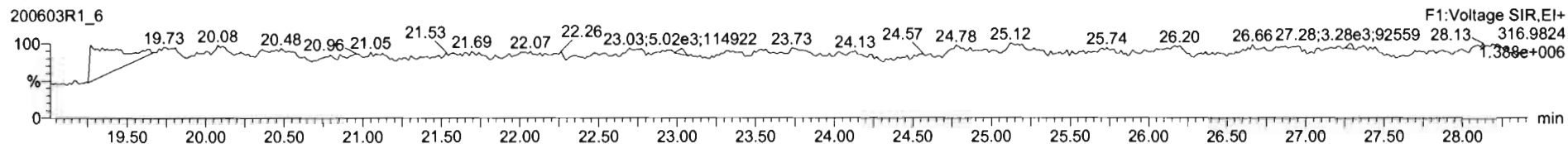


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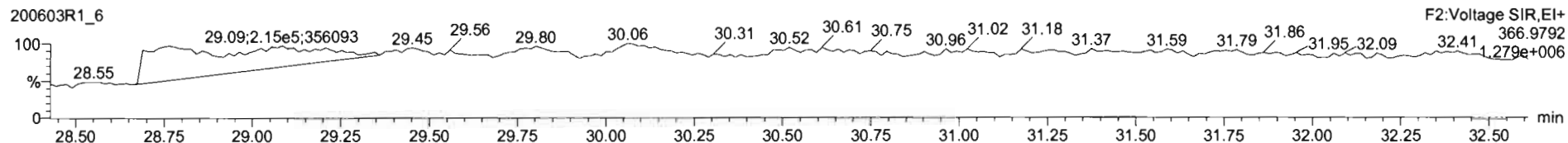
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_6, Date: 03-Jun-2020, Time: 12:00:07, ID: 2000965-02 PDI-150SC-A-01-02-200425 11.25, Description: PDI-150SC-A-01-02-200425

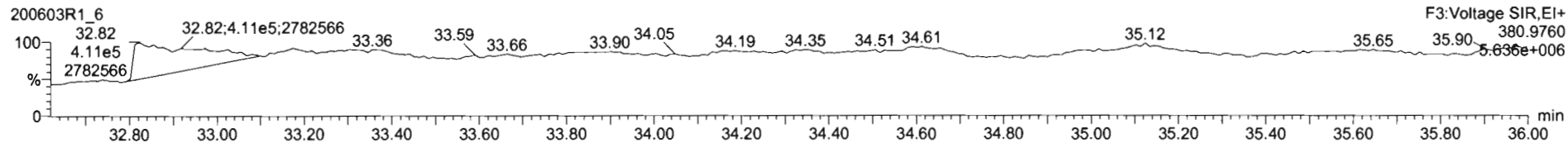
PFK1



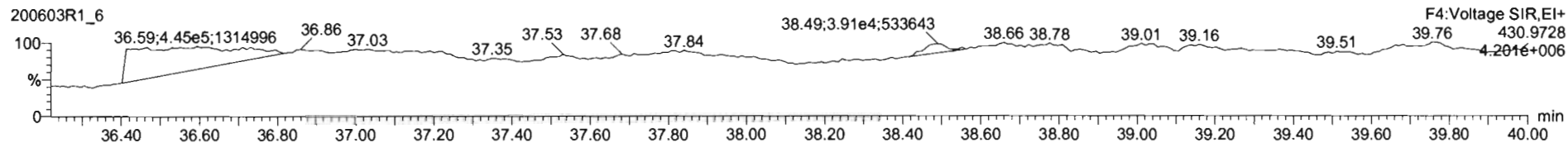
PFK2



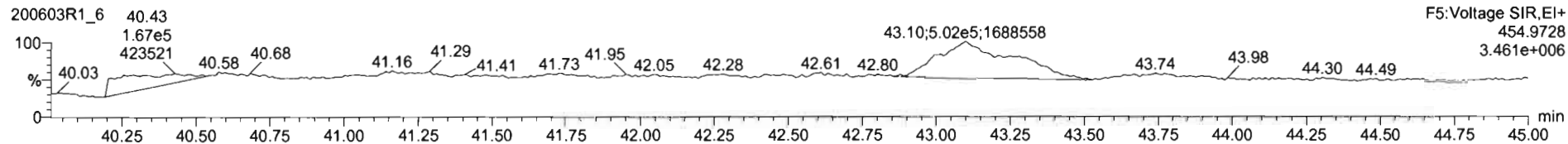
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R1\200603R1-7.qld

Last Altered: Friday, June 05, 2020 3:24:50 PM Pacific Daylight Time

Printed: Friday, June 05, 2020 3:26:01 PM Pacific Daylight Time

HN-06/5/
06/05/2020

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

C706/02/2020

Name: 200603R1_7, Date: 03-Jun-2020, Time: 12:46:20, ID: 2000965-03 PDI-150SC-A-02-03-200425 11.67, Description: PDI-150SC-A-02-03-200425

#	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												0.0596	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.033	31.473		1.001				0.112	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.033	34.825		1.000				0.0715	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.033	34.921		1.000				0.0733	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.033	35.220		1.000				0.0880	
6	6 1,2,3,4,6,7,8-HpCDD	5.27e3	0.97	NO	0.864	10.033	38.746	38.76	1.000	1.001	3.8039		0.221	3.80
7	7 OCDD				0.914	10.033	41.716		1.000				0.135	
8	8 2,3,7,8-TCDF												0.0557	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.033	30.190		1.001				0.0933	
10	10 2,3,4,7,8-PeCDF	2.13e2	1.44	NO	0.935	10.033	31.147	31.16	1.000	1.001	0.048163		0.0816	0.0482
11	11 1,2,3,4,7,8-HxCDF	2.17e2	0.93	YES	0.884	10.033	33.942	33.94	1.000	1.000	0.090744		0.0760	0.0790
12	12 1,2,3,6,7,8-HxCDF												0.0706	
13	13 2,3,4,6,7,8-HxCDF												0.0752	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.033	35.571		1.000				0.117	
15	15 1,2,3,4,6,7,8-HpCDF	2.39e3	0.94	NO	0.873	10.033	37.376	37.34	1.001	1.000	1.5049		0.119	1.50
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.033	39.288		1.000				0.136	
17	17 OCDF	3.75e3	0.85	NO	0.806	10.033	41.919	41.92	1.000	1.000	3.0677		0.126	3.07
18	18 13C-2,3,7,8-TCDD	8.82e5	0.78	NO	1.16	10.033	26.522	26.48	1.026	1.025	191.60	96.1	0.216	
19	19 13C-1,2,3,7,8-PeCDD	6.32e5	0.63	NO	0.849	10.033	31.711	31.45	1.227	1.217	187.18	93.9	0.266	
20	20 13C-1,2,3,4,7,8-HxCDD	4.32e5	1.26	NO	0.779	10.033	34.830	34.81	1.014	1.014	186.47	93.5	0.374	
21	21 13C-1,2,3,6,7,8-HxCDD	5.39e5	1.26	NO	1.02	10.033	34.944	34.92	1.017	1.017	178.35	89.5	0.287	
22	22 13C-1,2,3,7,8,9-HxCDD	4.69e5	1.24	NO	0.903	10.033	35.215	35.21	1.025	1.025	174.85	87.7	0.323	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.20e5	1.02	NO	0.689	10.033	38.739	38.73	1.128	1.128	156.04	78.3	0.442	
24	24 13C-OCDD	5.21e5	0.94	NO	0.652	10.033	41.761	41.72	1.216	1.215	268.61	67.4	0.492	
25	25 13C-2,3,7,8-TCDF	1.11e6	0.77	NO	1.06	10.033	25.564	25.60	0.989	0.991	179.32	90.0	0.307	
26	26 13C-1,2,3,7,8-PeCDF	9.34e5	1.58	NO	0.838	10.033	30.093	30.17	1.165	1.168	191.30	96.0	0.540	
27	27 13C-2,3,4,7,8-PeCDF	9.44e5	1.60	NO	0.817	10.033	31.047	31.15	1.202	1.205	198.36	99.5	0.555	
28	28 13C-1,2,3,4,7,8-HxCDF	5.39e5	0.50	NO	1.01	10.033	33.961	33.94	0.989	0.988	179.81	90.2	0.616	
29	29 13C-1,2,3,6,7,8-HxCDF	6.36e5	0.50	NO	1.17	10.033	34.085	34.07	0.992	0.992	183.32	92.0	0.532	
30	30 13C-2,3,4,6,7,8-HxCDF	5.94e5	0.51	NO	1.02	10.033	34.659	34.64	1.009	1.009	195.59	98.1	0.607	
31	31 13C-1,2,3,7,8,9-HxCDF	4.43e5	0.51	NO	0.860	10.033	35.558	35.57	1.035	1.036	173.40	87.0	0.722	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-7.qld

Last Altered: Friday, June 05, 2020 3:24:50 PM Pacific Daylight Time

Printed: Friday, June 05, 2020 3:26:01 PM Pacific Daylight Time

Name: 200603R1_7, Date: 03-Jun-2020, Time: 12:46:20, ID: 2000965-03 PDI-150SC-A-02-03-200425 11.67, Description: PDI-150SC-A-02-03-200425

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.63e5	0.42	NO	0.774	10.033	37.307	37.34	1.086	1.087	157.55	79.0	0.494	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.49e5	0.43	NO	0.521	10.033	39.336	39.29	1.145	1.144	160.87	80.7	0.735	
34	34 13C-OCDF	6.04e5	0.89	NO	0.746	10.033	41.933	41.92	1.221	1.220	272.45	68.3	0.355	
35	35 37Cl-2,3,7,8-TCDD	3.08e5			1.04	10.033	26.553	26.51	1.028	1.026	74.579	93.5	0.0485	
36	36 13C-1,2,3,4-TCDD	7.93e5	0.79	NO	1.00	10.033	25.890	25.84	1.000	1.000	199.35	100	0.250	
37	37 13C-1,2,3,4-TCDF	1.16e6	0.78	NO	1.00	10.033	24.360	24.16	1.000	1.000	199.35	100	0.325	
38	38 13C-1,2,3,4,6,9-HxCDF	5.93e5	0.51	NO	1.00	10.033	34.420	34.35	1.000	1.000	199.35	100	0.621	
39	39 Total Tetra-Dioxins				0.888	10.033	24.620		0.000		0.00000		0.0380	0.0629
40	40 Total Penta-Dioxins				0.908	10.033	29.960		0.000		0.00000		0.0313	0.118
41	41 Total Hexa-Dioxins				0.892	10.033	33.635		0.000		0.45442		0.0808	0.454
42	42 Total Hepta-Dioxins				0.864	10.033	37.640		0.000		9.6402		0.221	9.64
43	43 Total Tetra-Furans				0.751	10.033	23.610		0.000		0.55927		0.0557	0.559
44	44 1st Func. Penta-Furans				0.893	10.033	27.580		0.000		0.97723		0.0173	0.977
45	45 Total Penta-Furans				0.893	10.033	29.275		0.000		0.39687		0.0894	0.397
46	46 Total Hexa-Furans				0.934	10.033	33.555		0.000		1.4419		0.0791	1.52
47	47 Total Hepta-Furans				0.873	10.033	37.835		0.000		4.2775		0.135	4.28

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-7.qld

Last Altered: Friday, June 05, 2020 3:24:50 PM Pacific Daylight Time

Printed: Friday, June 05, 2020 3:26:01 PM Pacific Daylight Time

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_7, Date: 03-Jun-2020, Time: 12:46:20, ID: 2000965-03 PDI-150SC-A-02-03-200425 11.67, Description: PDI-150SC-A-02-03-200425

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.31	3.765e3	2.653e3	1.431e2	1.397e2	1.02	YES	0.000e0	0.00000	0.062925	0.0380

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.62	1.296e3	6.252e3	6.375e1	2.318e2	0.27	YES	0.000e0	0.00000	0.057246	0.112
2	Total Penta-Dioxins	29.74	1.690e3	2.878e3	8.356e1	1.077e2	0.78	YES	0.000e0	0.00000	0.060918	0.112

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	34.15	8.874e3	8.026e3	5.235e2	4.529e2	1.16	NO	9.765e2	0.45442	0.45442	0.0808

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.75	5.276e4	5.531e4	3.935e3	4.152e3	0.95	NO	8.087e3	5.8363	5.8363	0.221
2	1,2,3,4,6,7,8-HpCDD	38.76	3.930e4	3.814e4	2.593e3	2.677e3	0.97	NO	5.271e3	3.8039	3.8039	0.221

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.53	6.104e3	7.790e3	5.449e2	6.427e2	0.85	NO	1.188e3	0.28481	0.28481	0.0557
2	Total Tetra-Furans	22.97	3.697e3	4.488e3	3.002e2	3.886e2	0.77	NO	6.888e2	0.16520	0.16520	0.0557
3	Total Tetra-Furans	24.09	3.147e3	4.749e3	2.020e2	2.536e2	0.80	NO	4.556e2	0.10927	0.10927	0.0557

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	27.61	4.130e4	2.839e4	2.483e3	1.627e3	1.53	NO	4.109e3	0.97723	0.97723	0.0173

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-7.qld

Last Altered: Friday, June 05, 2020 3:24:50 PM Pacific Daylight Time

Printed: Friday, June 05, 2020 3:26:01 PM Pacific Daylight Time

Name: 200603R1_7, Date: 03-Jun-2020, Time: 12:46:20, ID: 2000965-03 PDI-150SC-A-02-03-200425 11.67, Description: PDI-150SC-A-02-03-200425

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.18	1.044e4	6.694e3	6.961e2	4.115e2	1.69	NO	1.108e3	0.26340	0.26340	0.0894
2	2,3,4,7,8-PeCDF	31.16	4.719e3	4.142e3	1.258e2	8.738e1	1.44	NO	2.132e2	0.048163	0.048163	0.0816
3	Total Penta-Furans	31.19	5.744e3	5.094e3	2.206e2	1.381e2	1.60	NO	3.587e2	0.085303	0.085303	0.0894

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.78	6.077e3	5.705e3	2.928e2	2.688e2	1.09	NO	5.616e2	0.21673	0.21673	0.0791
2	Total Hexa-Furans	32.94	1.183e4	1.301e4	6.785e2	5.578e2	1.22	NO	1.236e3	0.47710	0.47710	0.0791
3	Total Hexa-Furans	33.49	2.037e4	1.642e4	1.058e3	8.807e2	1.20	NO	1.939e3	0.74809	0.74809	0.0791
4	1,2,3,4,7,8-HxCDF	33.94	2.149e3	2.566e3	1.045e2	1.123e2	0.93	YES	2.169e2	0.00000	0.079001	0.0769

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	37.34	1.574e4	1.639e4	1.161e3	1.231e3	0.94	NO	2.392e3	1.5049	1.5049	0.119
2	Total Hepta-Furans	37.96	2.387e4	2.420e4	1.944e3	1.773e3	1.10	NO	3.717e3	2.7726	2.7726	0.135

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-7.qld

Last Altered: Friday, June 05, 2020 10:24:22 AM Pacific Daylight Time

Printed: Friday, June 05, 2020 10:25:54 AM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_7, Date: 03-Jun-2020, Time: 12:46:20, ID: 2000965-03 PDI-150SC-A-02-03-200425 11.67, Description: PDI-150SC-A-02-03-200425

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.31	3.765e3	2.653e3	1.431e2	1.397e2	1.02	YES	0.000e0	0.00000	0.062925	0.0380

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.62	1.296e3	6.252e3	6.375e1	2.318e2	0.27	YES	0.000e0	0.00000	0.057246	0.112
2	Total Penta-Dioxins	29.74	1.690e3	2.878e3	8.356e1	1.077e2	0.78	YES	0.000e0	0.00000	0.060918	0.112

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	34.15	8.874e3	8.026e3	5.235e2	4.529e2	1.16	NO	9.765e2	0.45442	0.45442	0.0808

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.75	5.276e4	5.531e4	3.935e3	4.152e3	0.95	NO	8.087e3	5.8363	5.8363	0.221
2	1,2,3,4,6,7,8-HpCDD	38.76	3.930e4	3.814e4	2.593e3	2.677e3	0.97	NO	5.271e3	3.8039	3.8039	0.221

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.53	6.104e3	7.790e3	5.449e2	6.427e2	0.85	NO	1.188e3	0.28481	0.28481	0.0557
2	Total Tetra-Furans	22.97	3.733e3	4.488e3	3.067e2	3.886e2	0.79	NO	6.953e2	0.16674	0.16674	0.0557
3	Total Tetra-Furans	24.09	3.147e3	4.749e3	2.020e2	2.536e2	0.80	NO	4.556e2	0.10927	0.10927	0.0557

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	27.61	4.130e4	2.839e4	2.483e3	1.627e3	1.53	NO	4.109e3	0.97723	0.97723	0.0173

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-7.qld

Last Altered: Friday, June 05, 2020 10:24:22 AM Pacific Daylight Time

Printed: Friday, June 05, 2020 10:25:54 AM Pacific Daylight Time

Name: 200603R1_7, Date: 03-Jun-2020, Time: 12:46:20, ID: 2000965-03 PDI-150SC-A-02-03-200425 11.67, Description: PDI-150SC-A-02-03-200425

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.18	1.044e4	6.694e3	6.961e2	4.115e2	1.69	NO	1.108e3	0.26340	0.26340	0.0894

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.78	6.077e3	5.705e3	2.928e2	2.688e2	1.09	NO	5.616e2	0.21673	0.21673	0.0791
2	Total Hexa-Furans	32.94	1.183e4	1.301e4	6.785e2	5.578e2	1.22	NO	1.236e3	0.47710	0.47710	0.0791
3	Total Hexa-Furans	33.49	2.037e4	1.642e4	1.058e3	8.807e2	1.20	NO	1.939e3	0.74809	0.74809	0.0791
4	1,2,3,4,7,8-HxCDF	33.94	2.149e3	2.566e3	1.045e2	1.123e2	0.93	YES	2.169e2	0.00000	0.079001	0.0769

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	37.34	1.574e4	1.639e4	1.161e3	1.231e3	0.94	NO	2.392e3	1.5049	1.5049	0.119
2	Total Hepta-Furans	37.96	2.387e4	2.420e4	1.944e3	1.773e3	1.10	NO	3.717e3	2.7726	2.7726	0.135

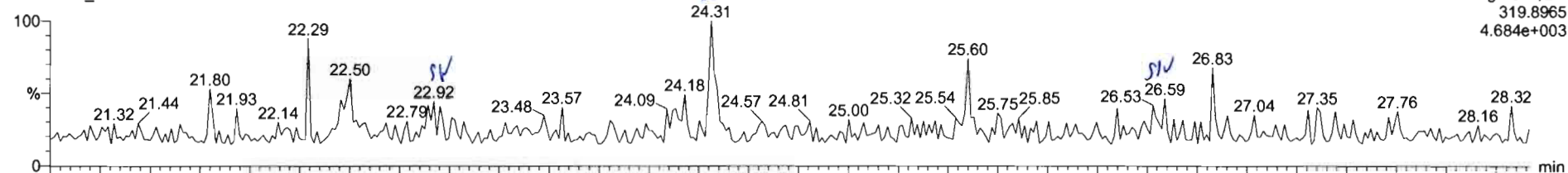
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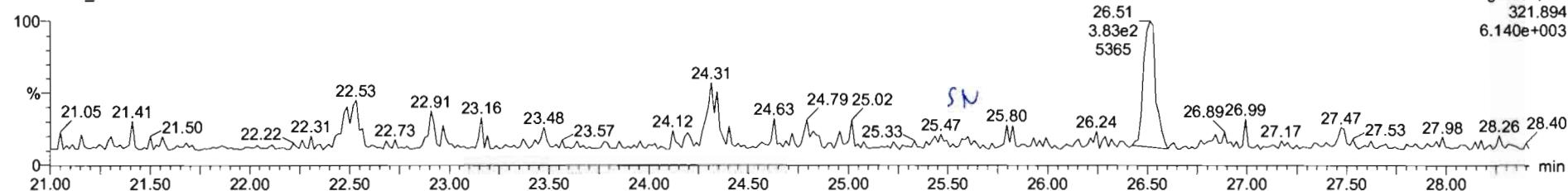
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2,3,7,8-TCDD

200603R1_7

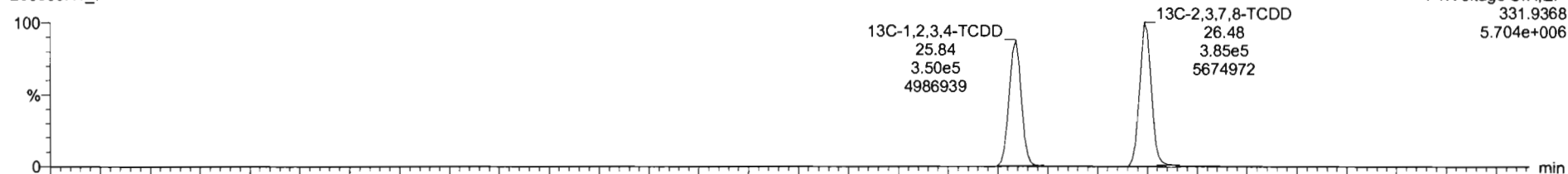


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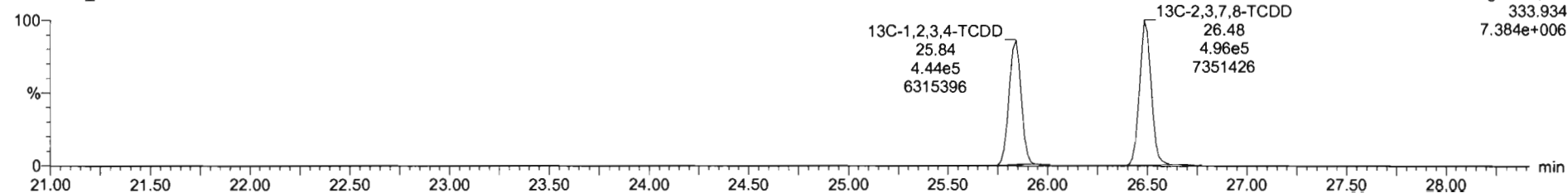


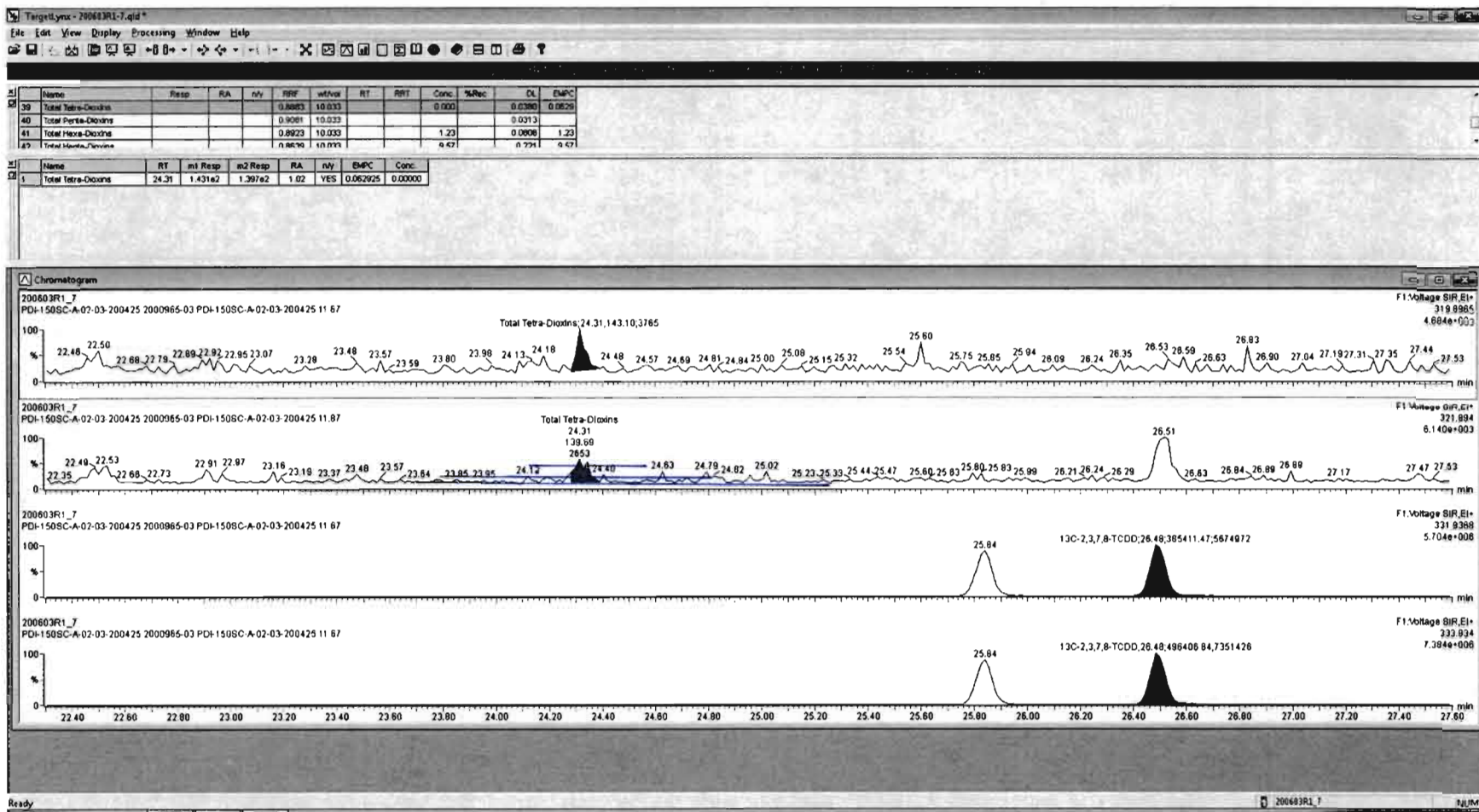
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200603R1_7



200603R1_7





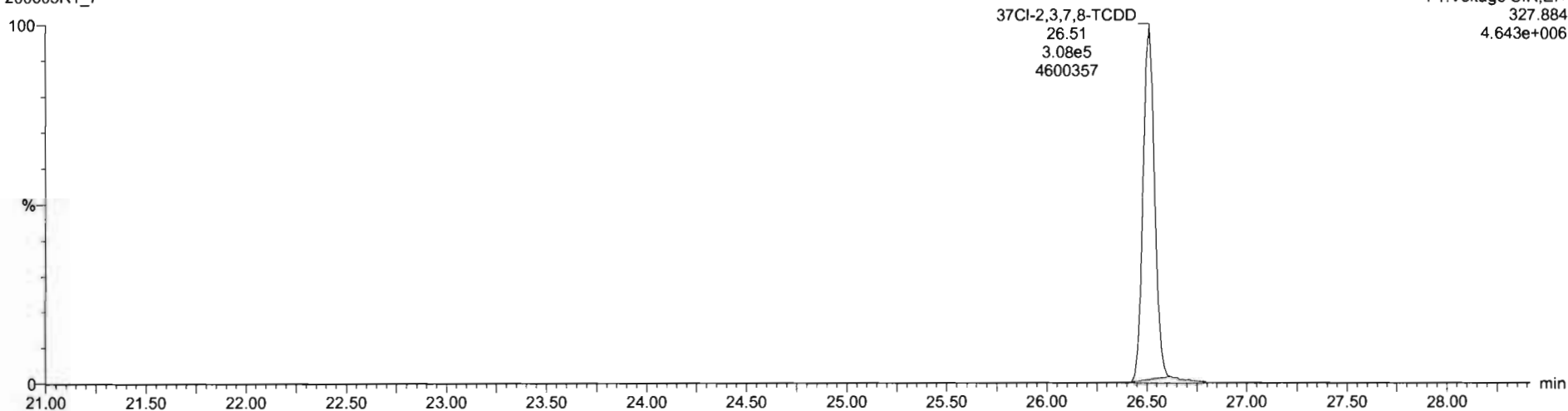
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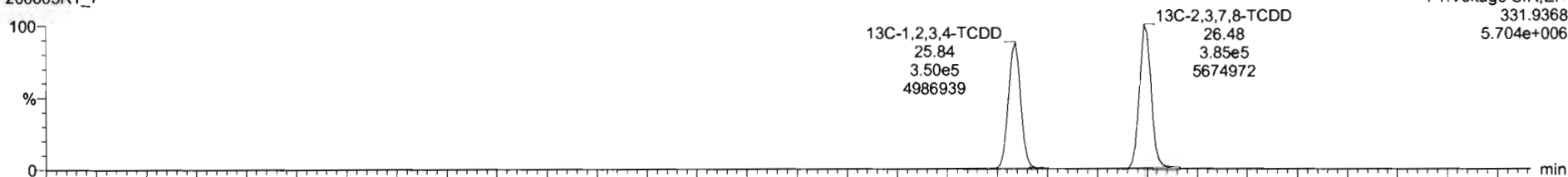
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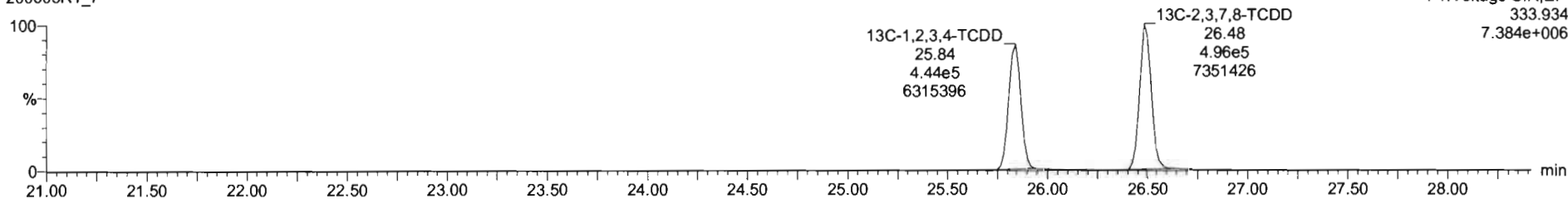


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200603R1_7



200603R1_7



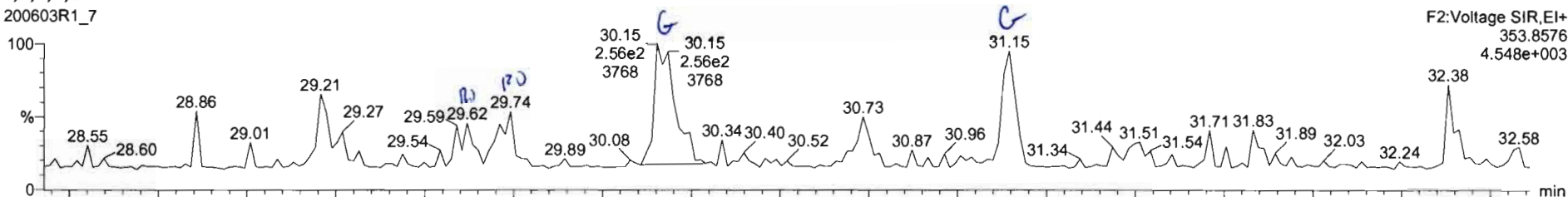
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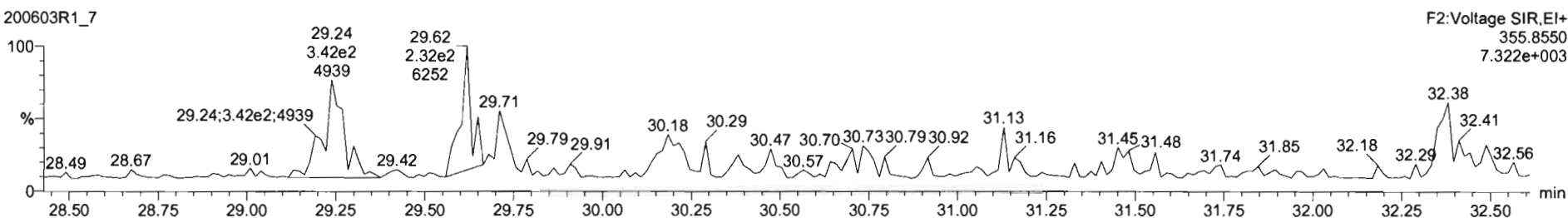
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200603R1_7



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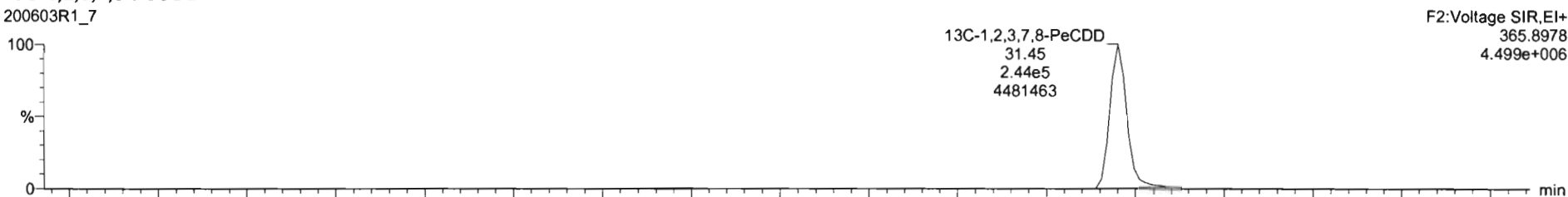
200603R1_7



F2:Voltage SIR,El+
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7.322e+003

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

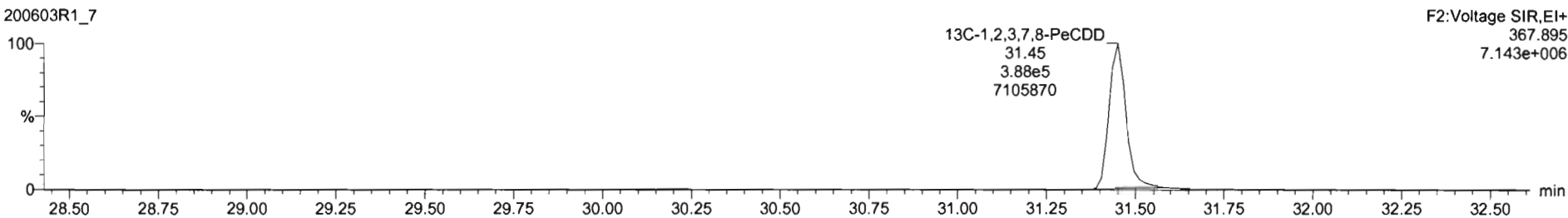
200603R1_7



13C-1,2,3,7,8-PeCDD
31.45
2.44e5
4481463

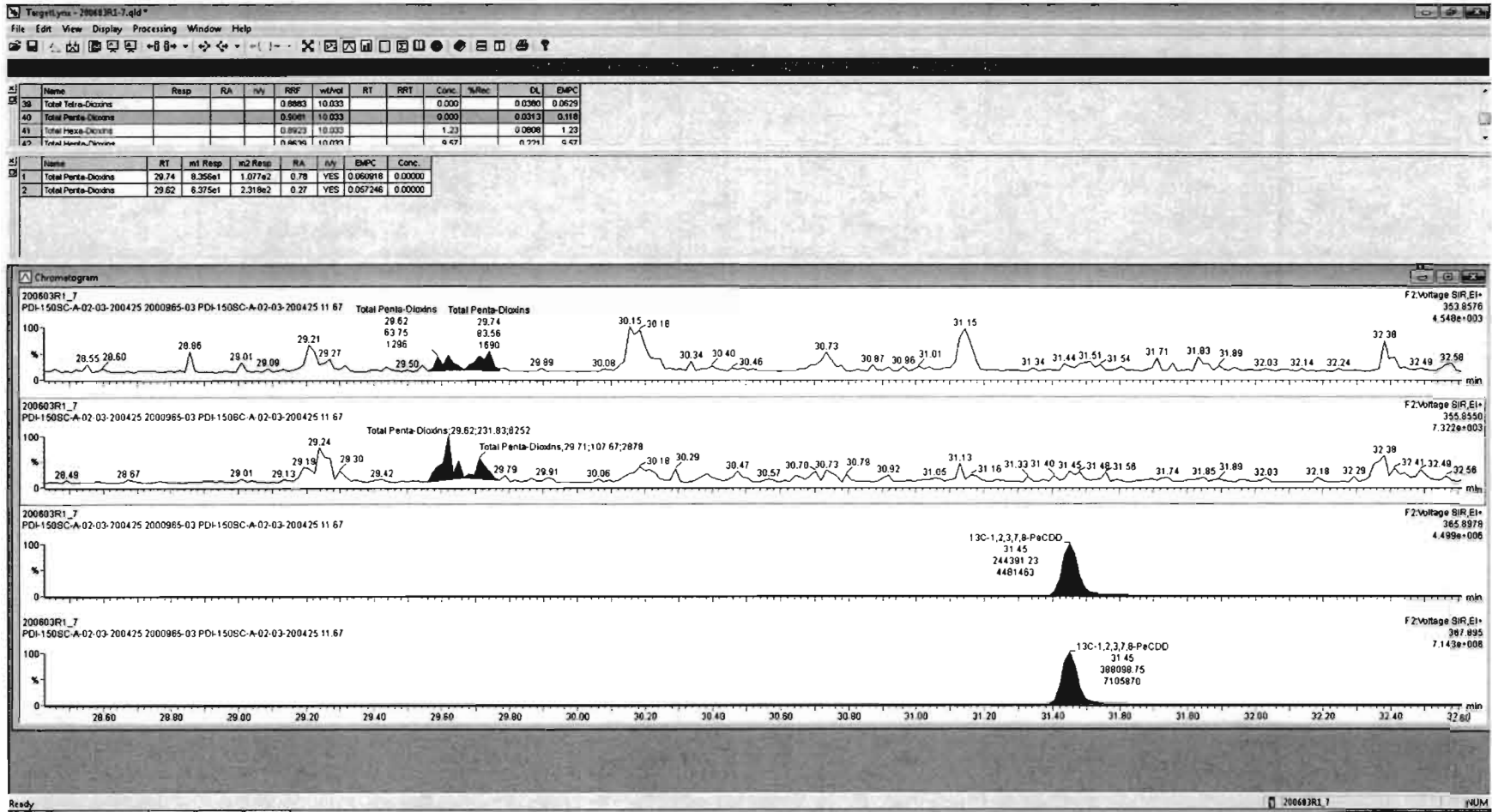
F2:Voltage SIR,El+
365.8978
4.499e+006

200603R1_7



13C-1,2,3,7,8-PeCDD
31.45
3.88e5
7105870

F2:Voltage SIR,El+
367.895
7.143e+006



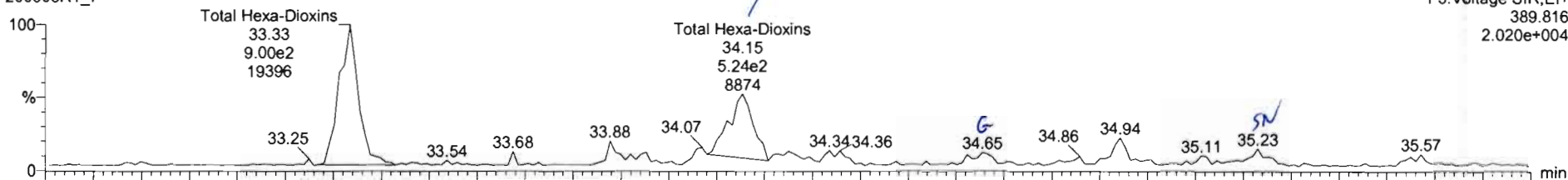
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

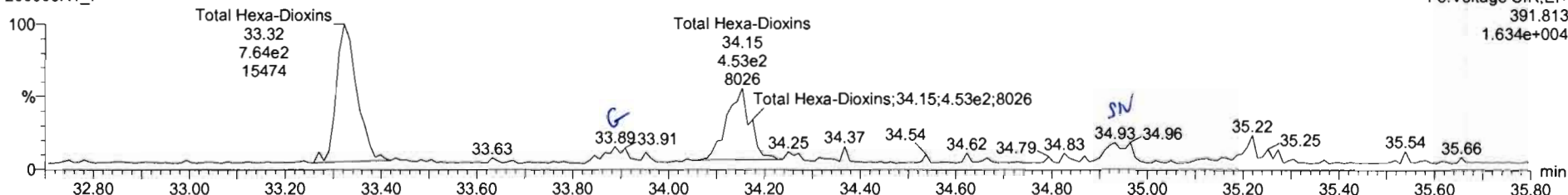
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1,2,3,4,7,8-HxCDD

200603R1_7

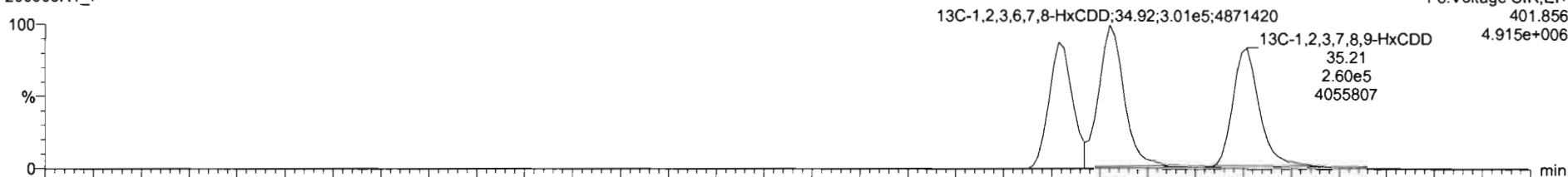


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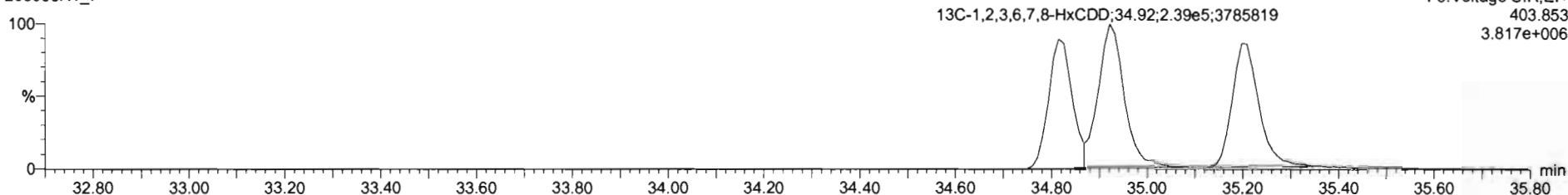


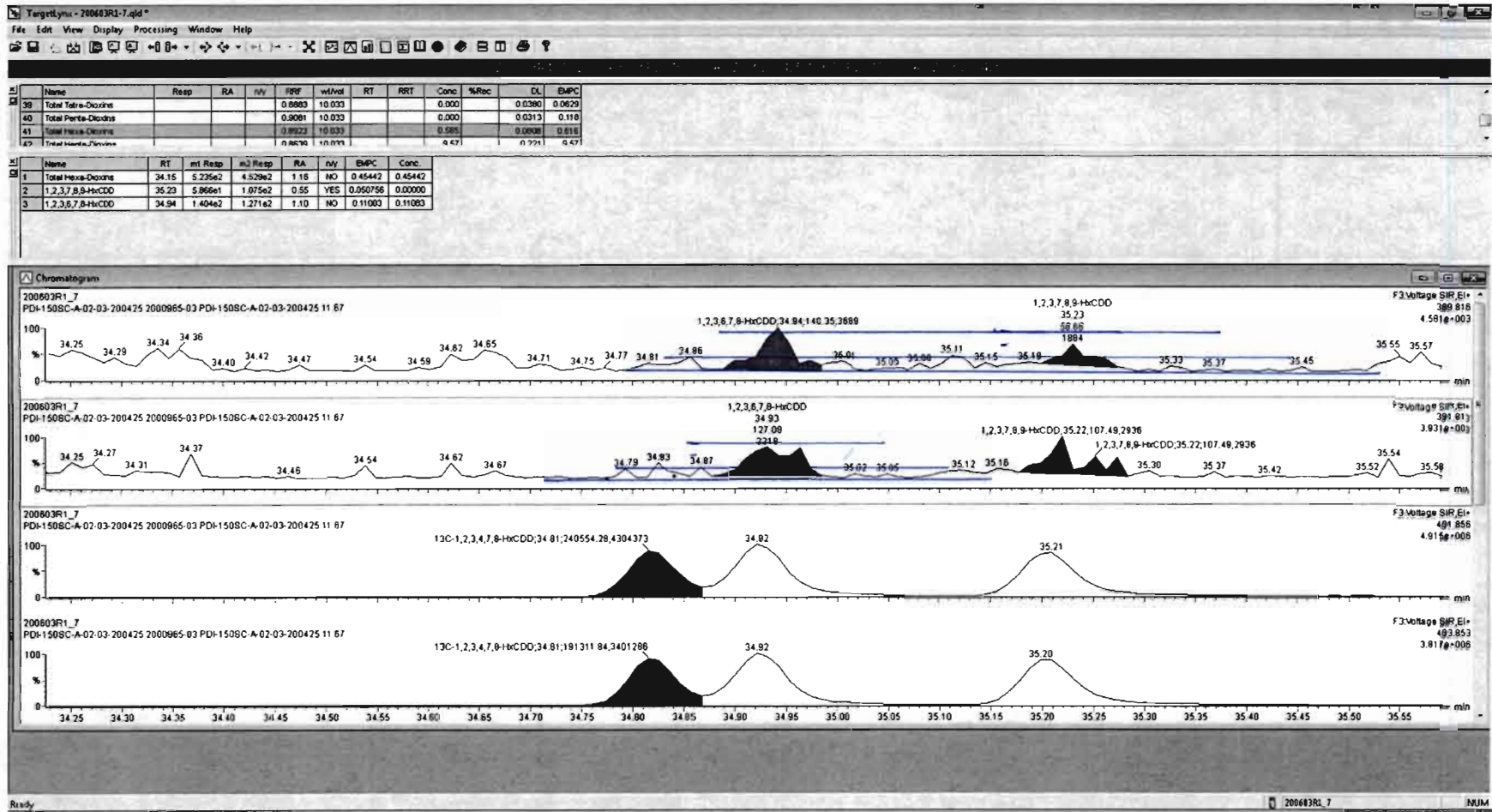
13C-1,2,3,4,7,8-HxCDD

200603R1_7



200603R1_7





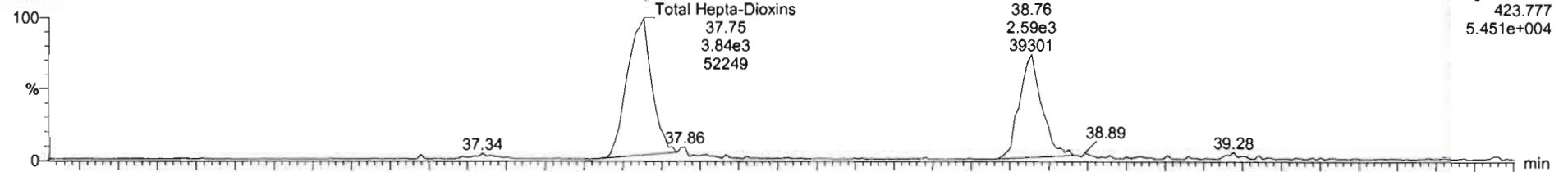
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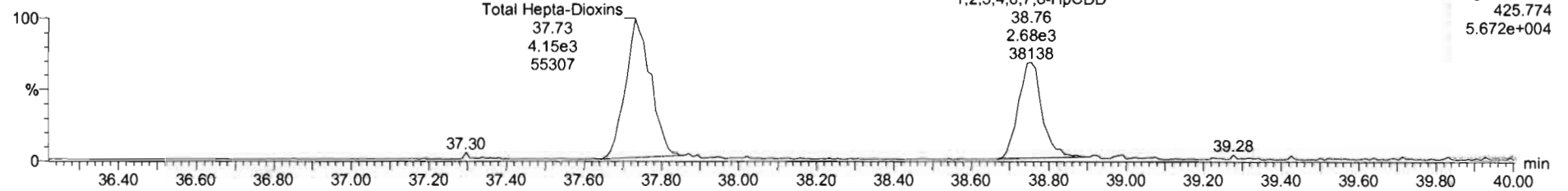
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1,2,3,4,6,7,8-HpCDD

200603R1_7

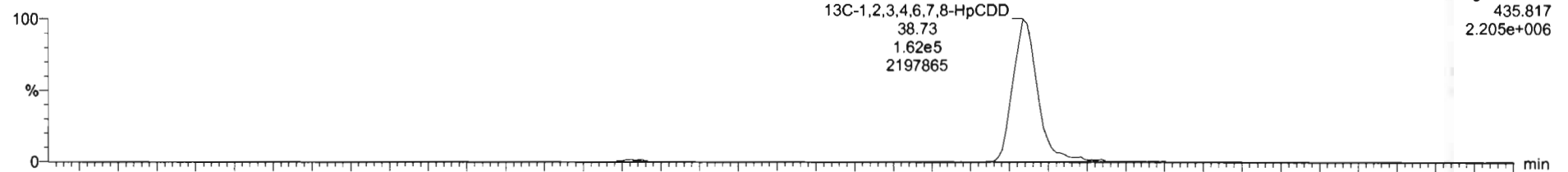


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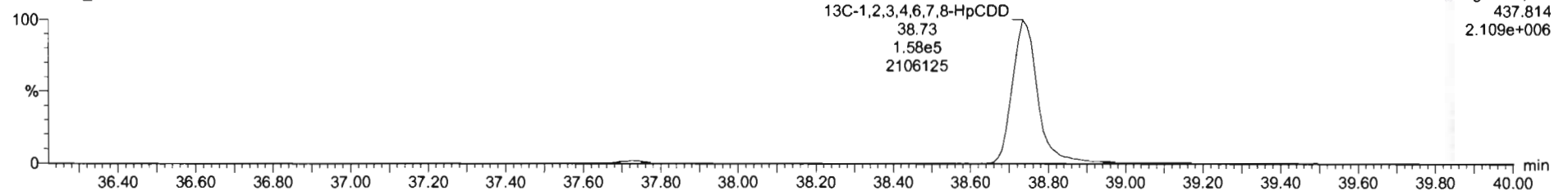


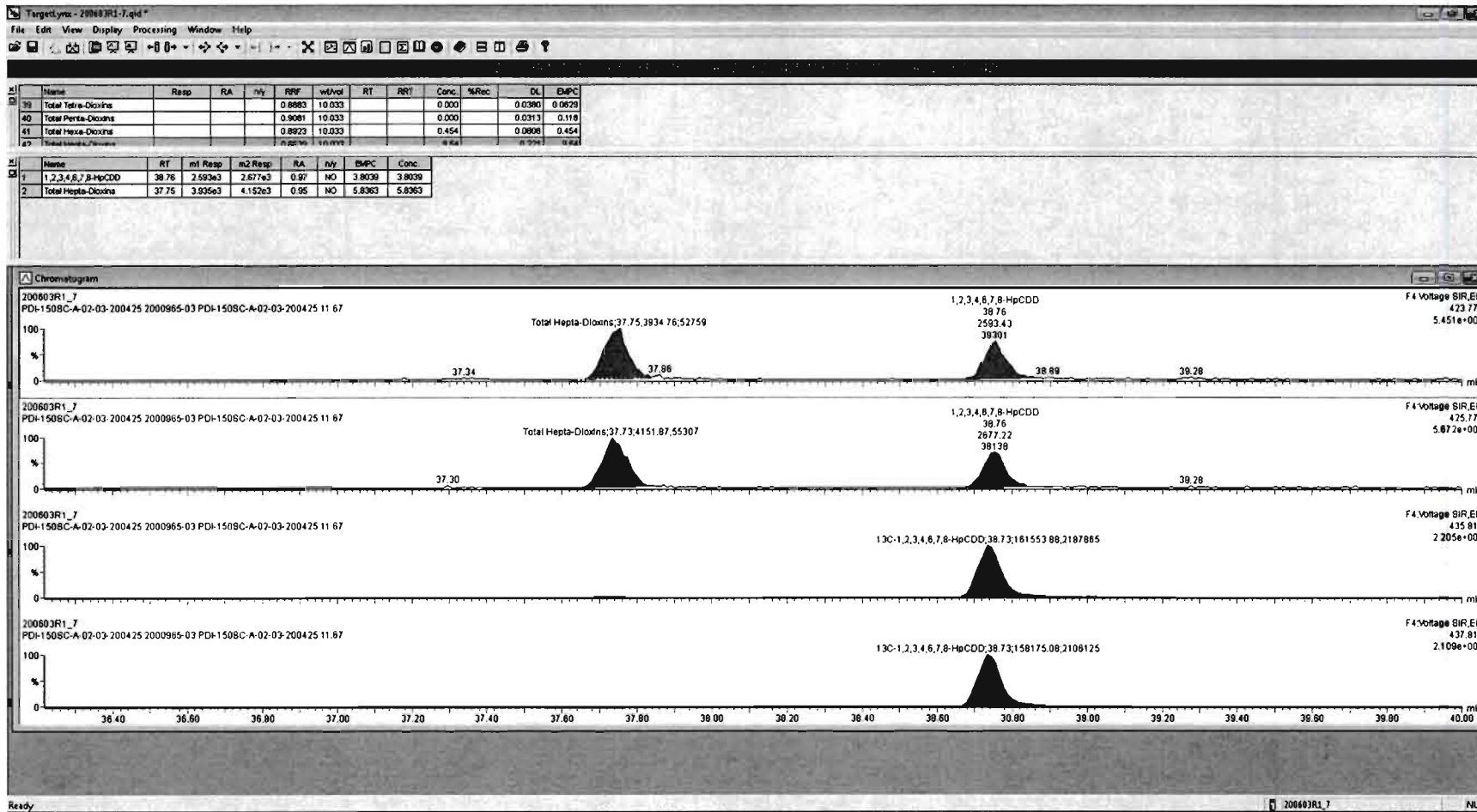
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200603R1_7



200603R1_7



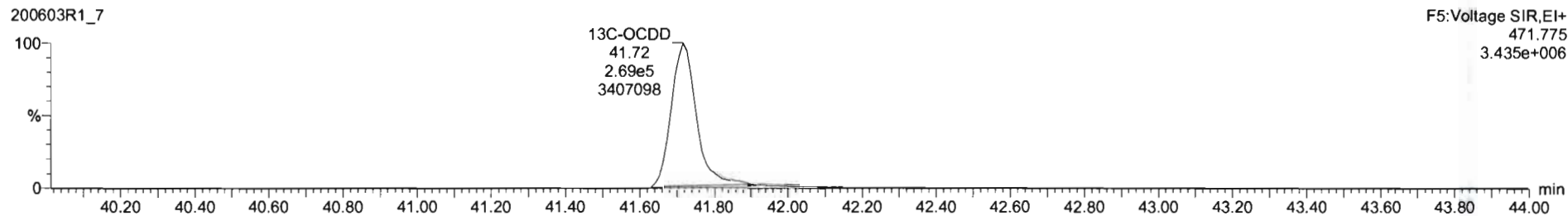
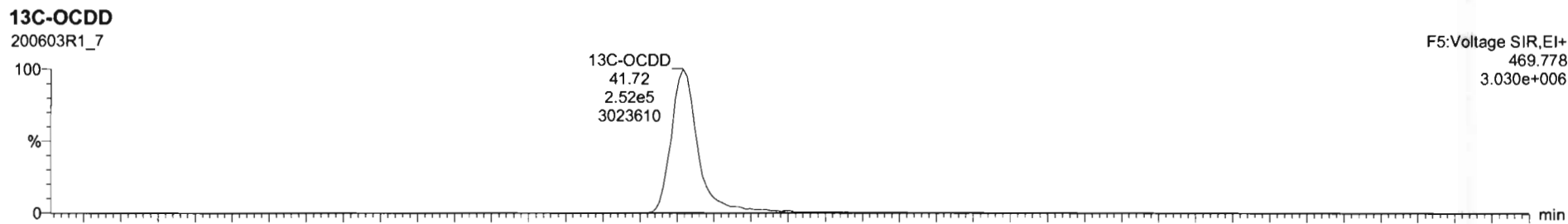
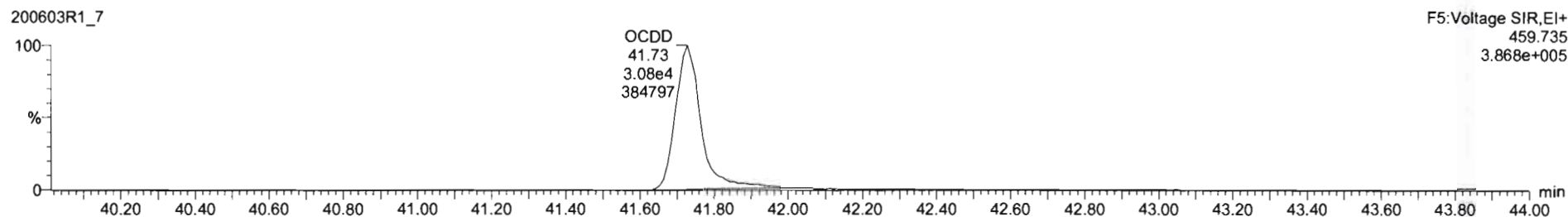
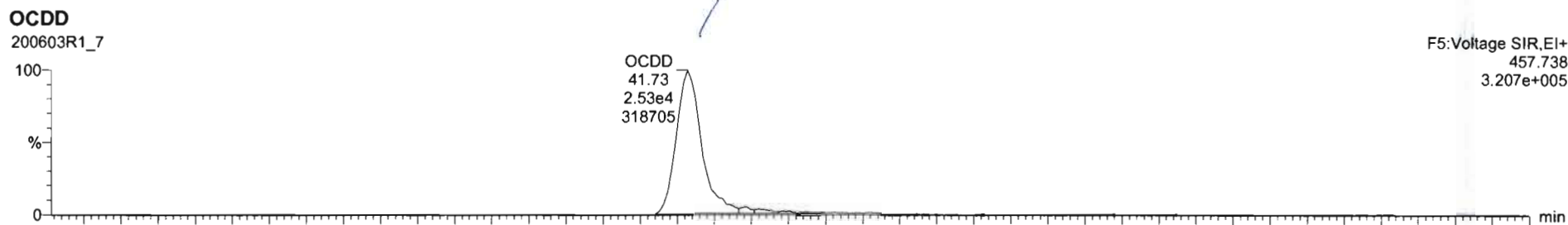


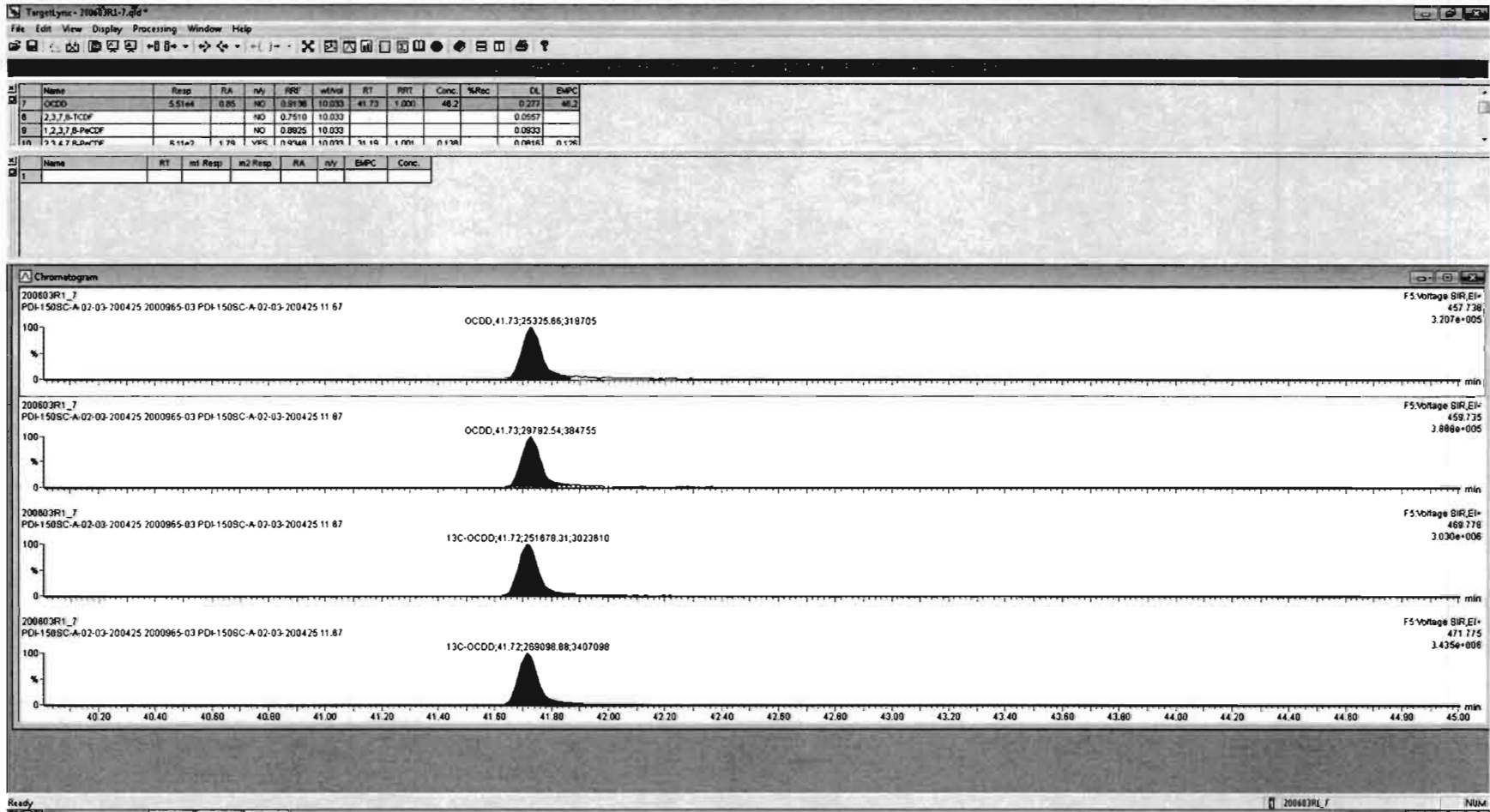
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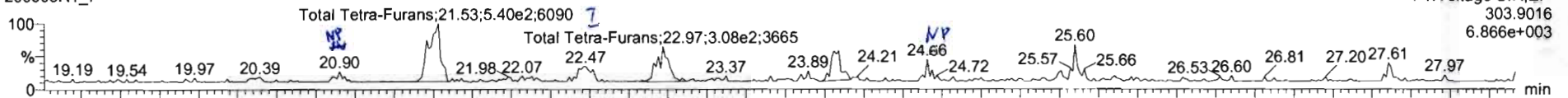
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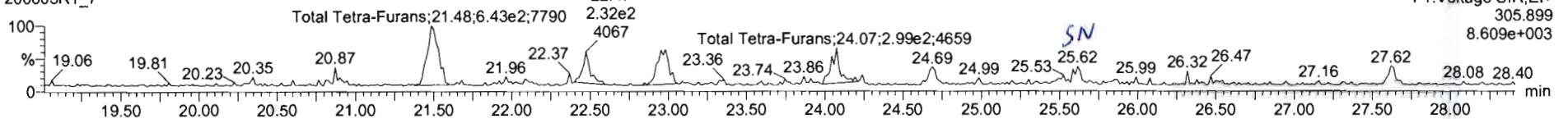
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2,3,7,8-TCDF

200603R1_7

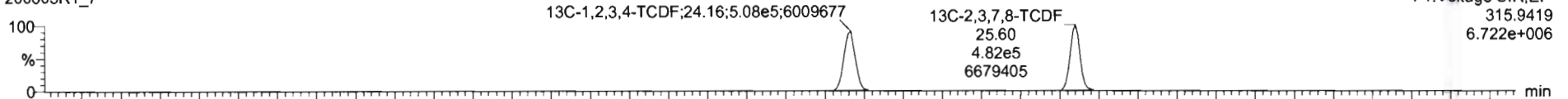


200603R1_7

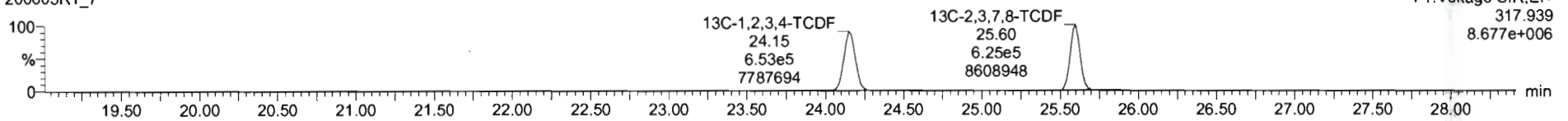


13C-2,3,7,8-TCDF

200603R1_7

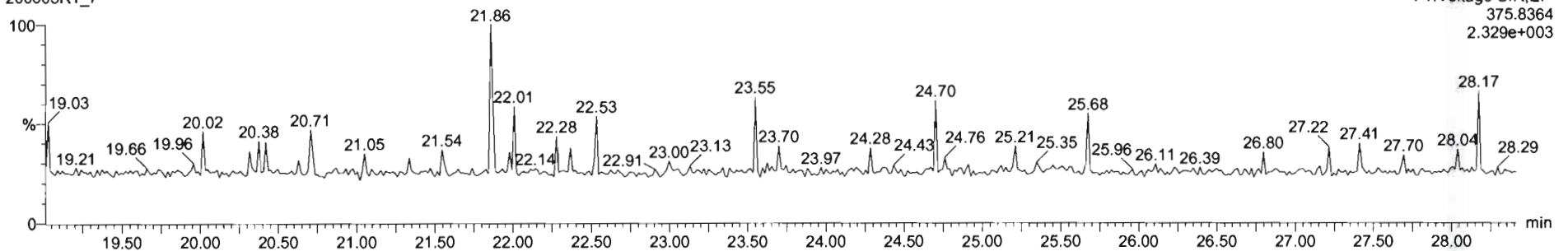


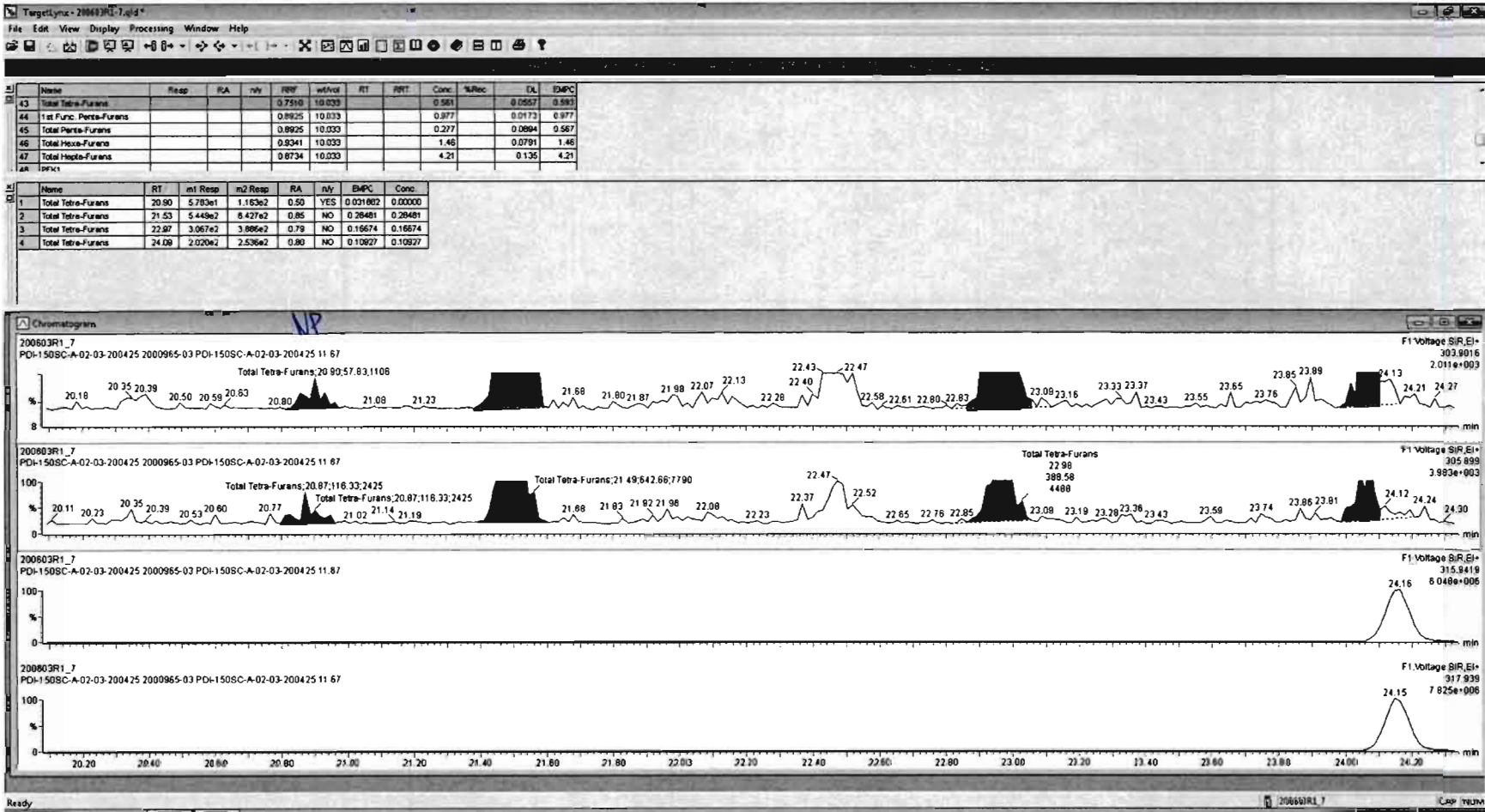
200603R1_7



DPE1

200603R1_7

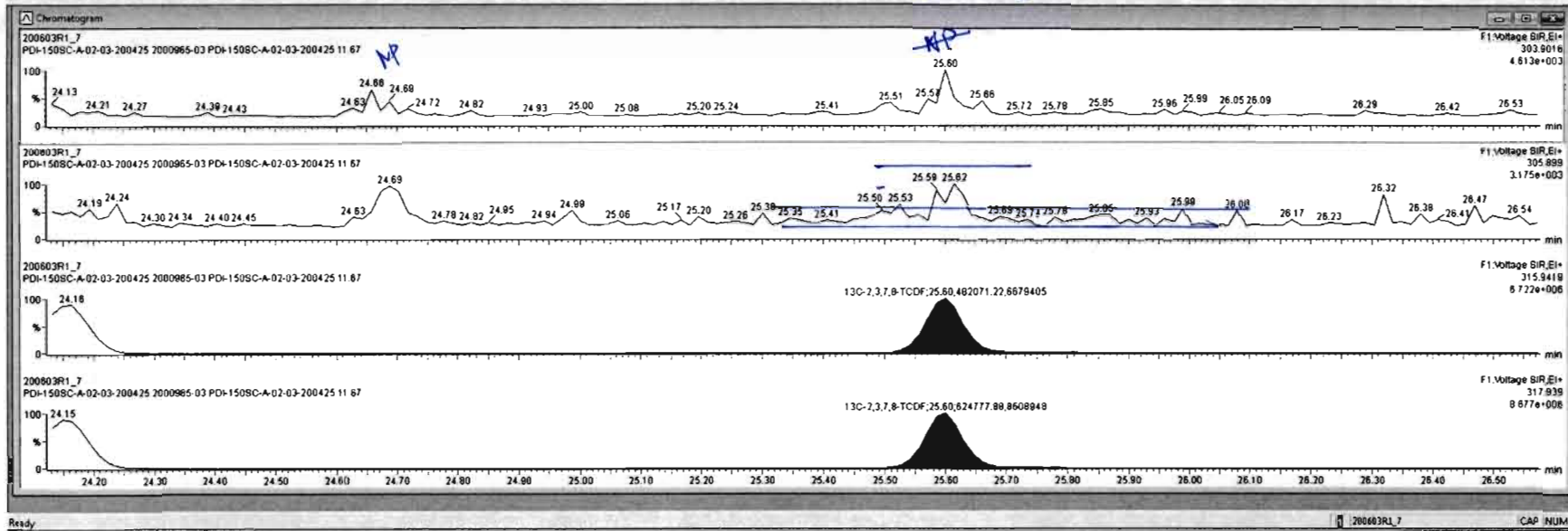


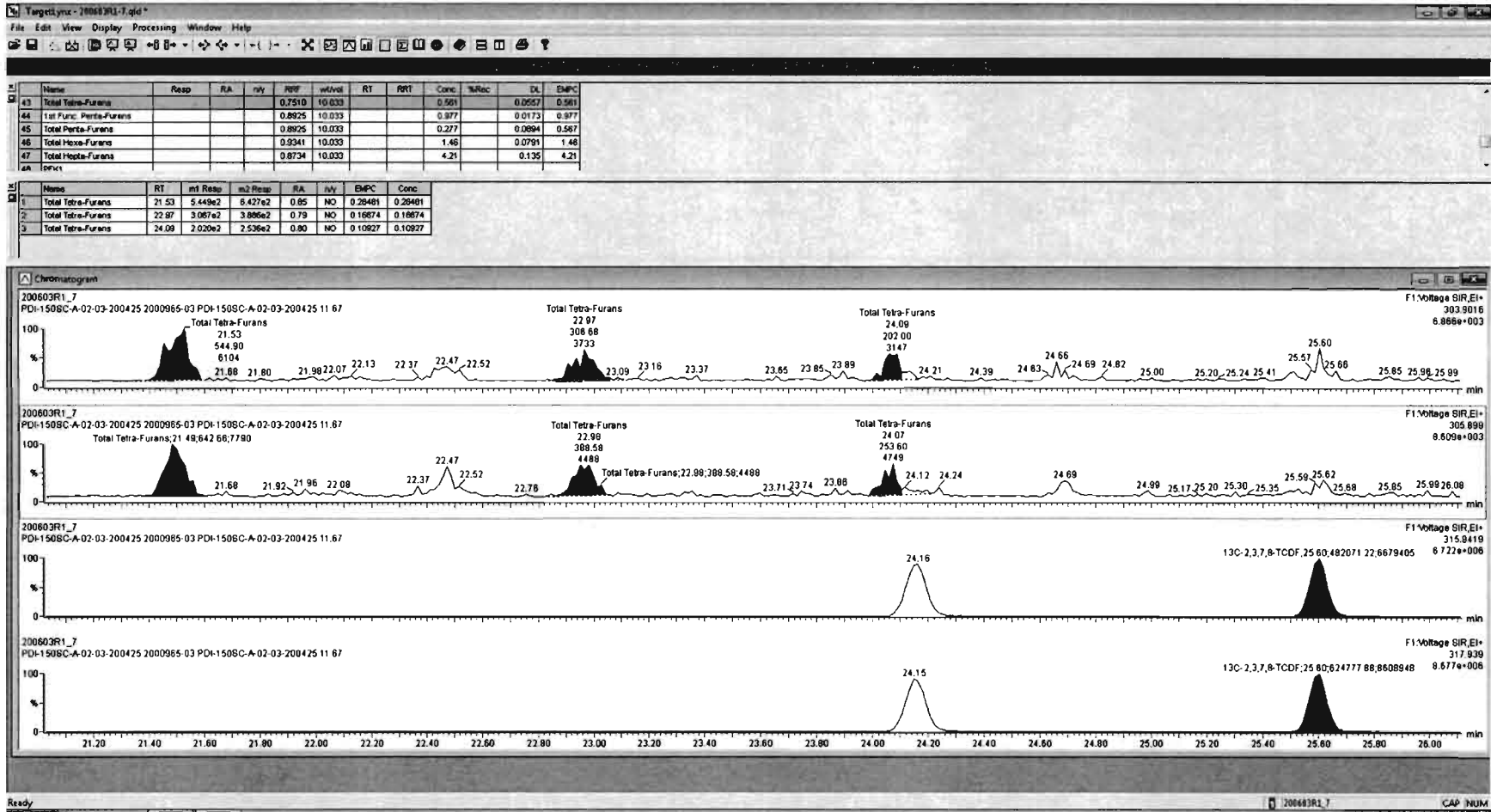


Name	Resp	RA	nV	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7510	10.033			0.561		0.057	0.561
44 1st Func. Penta-Furans				0.8925	10.033			0.977		0.0173	0.977
45 Total Penta-Furans				0.8925	10.033			0.277		0.0894	0.567
46 Total Hexa-Furans				0.9341	10.033			1.46		0.0791	1.46
47 Total Hepta-Furans				0.8734	10.033			4.21		0.135	4.21

Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1 Total Tetra-Furans	21.53	5.448e2	8.437e2	0.85	NO	0.26481	0.26481
2 Total Tetra-Furans	22.97	3.067e2	3.886e2	0.78	NO	0.16674	0.16674
3 Total Tetra-Furans	24.09	2.020e2	2.536e2	0.80	NO	0.10927	0.10927

HN 06/05/20





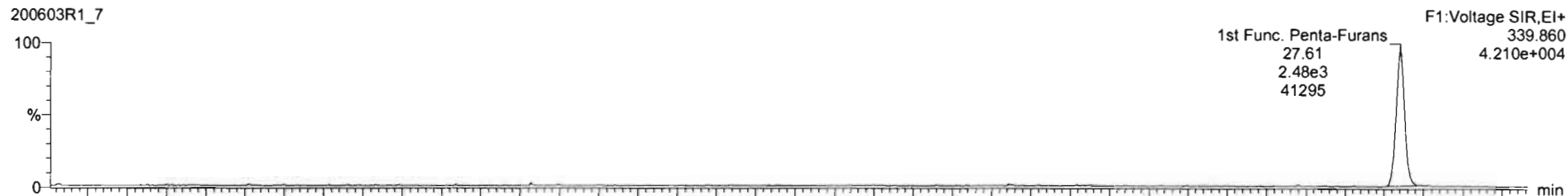
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

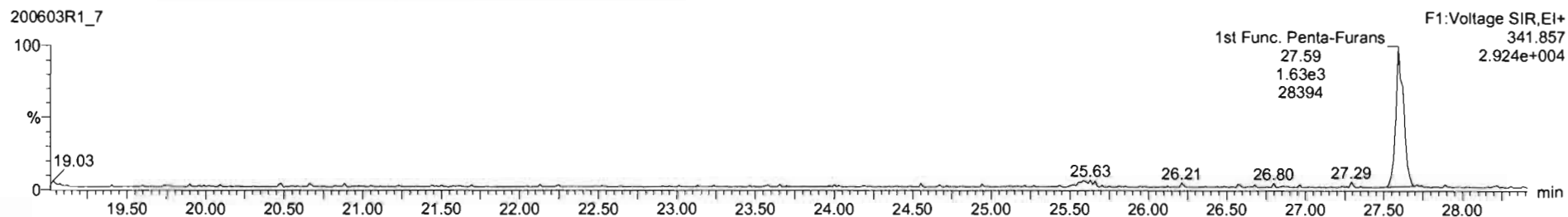
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1st Func. Penta-Furans

200603R1_7

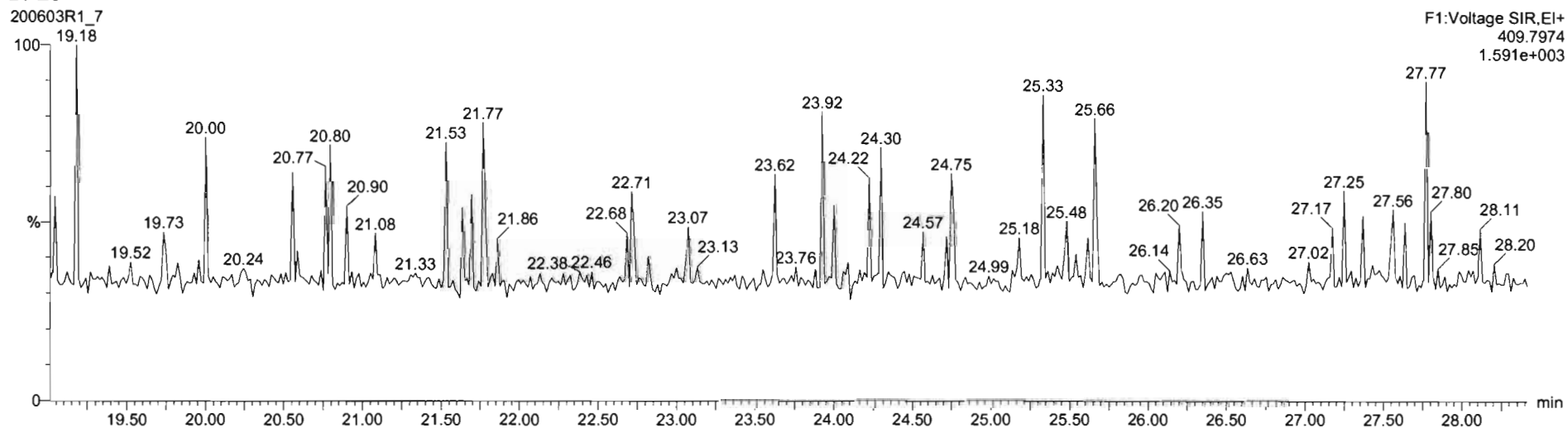


200603R1_7



DPE6

200603R1_7



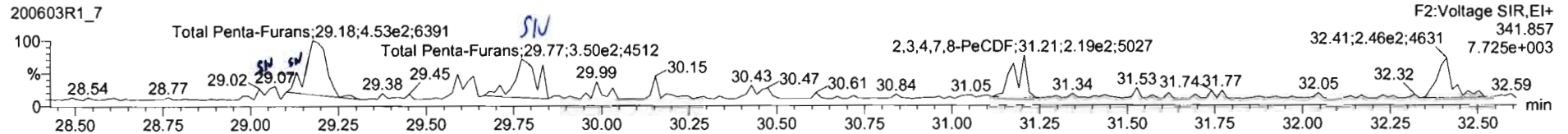
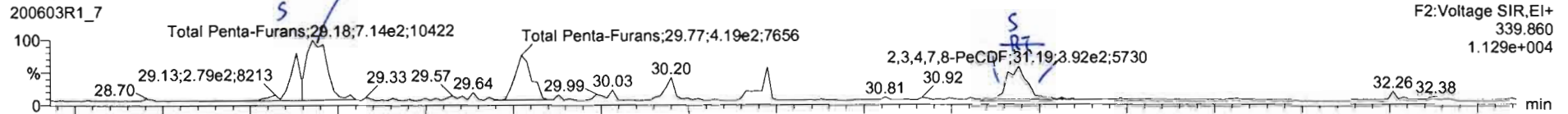
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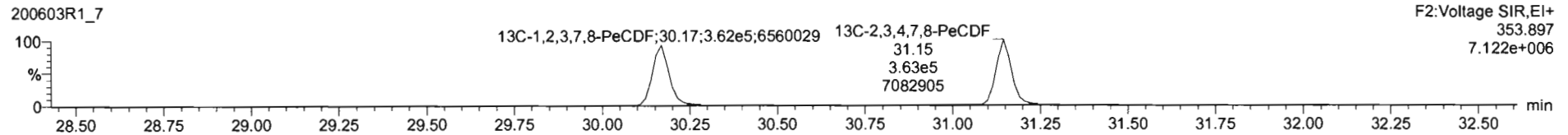
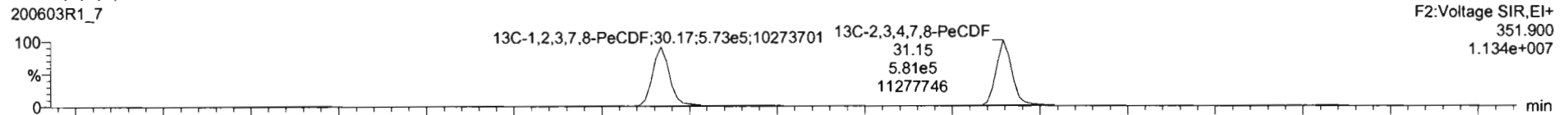
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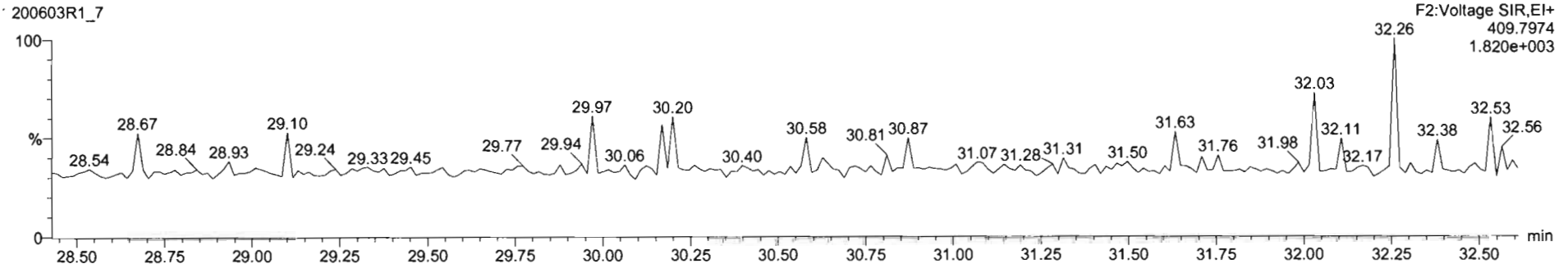
1,2,3,7,8-PeCDF

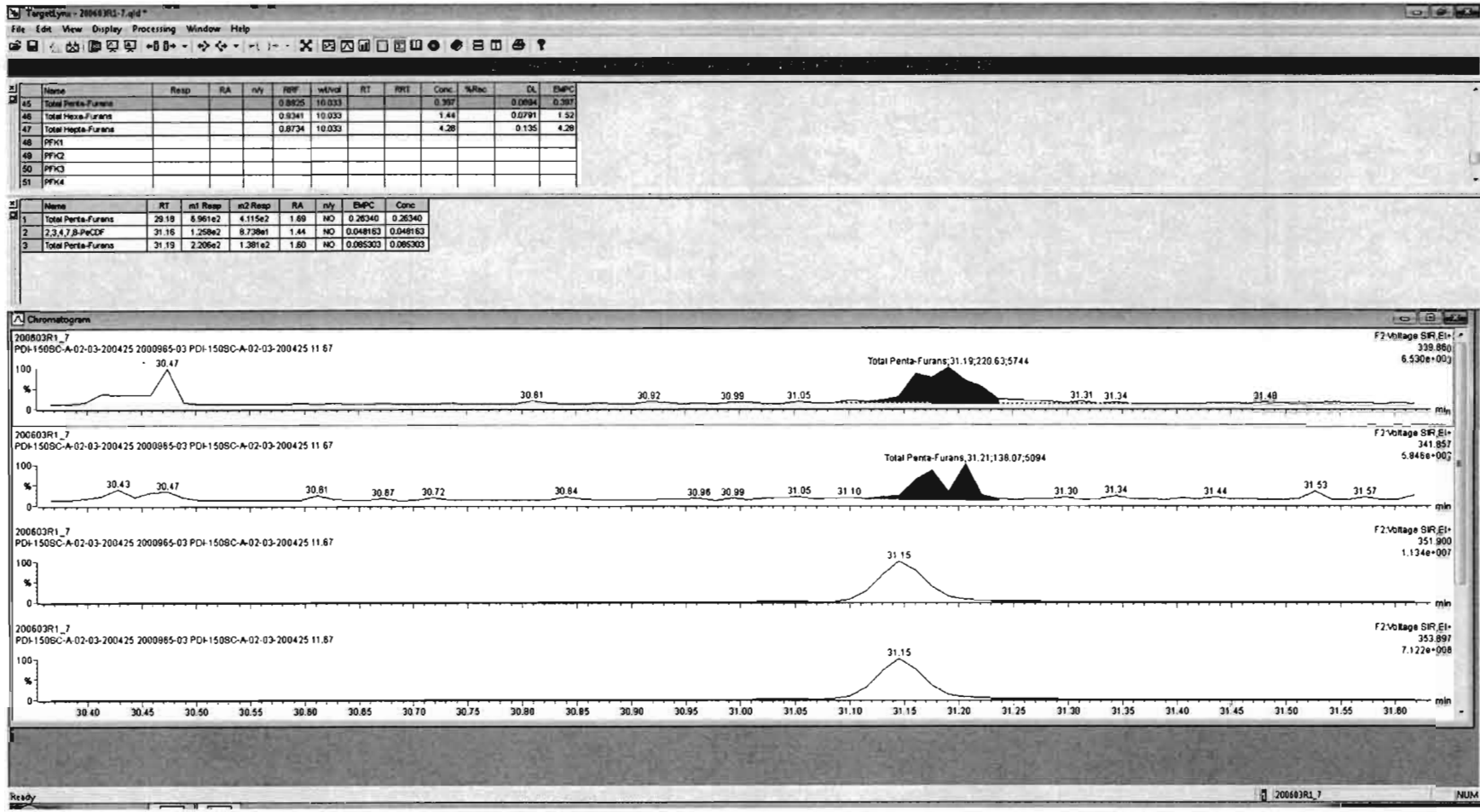


13C-1,2,3,7,8-PeCDF



DPE2



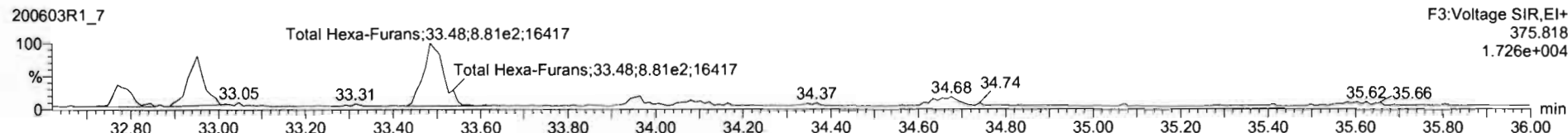
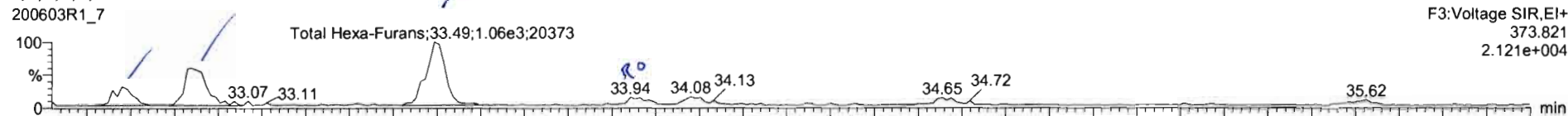


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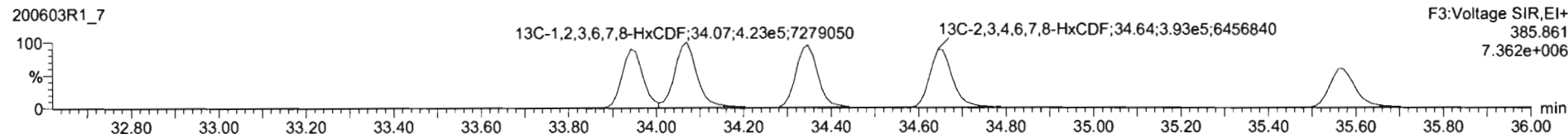
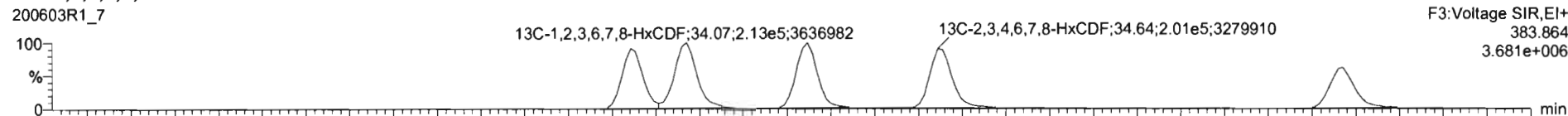
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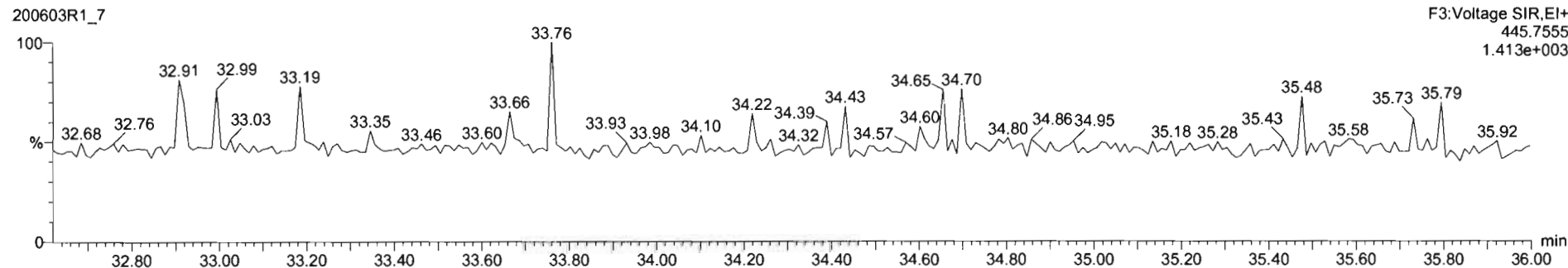
1,2,3,4,7,8-HxCDF



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

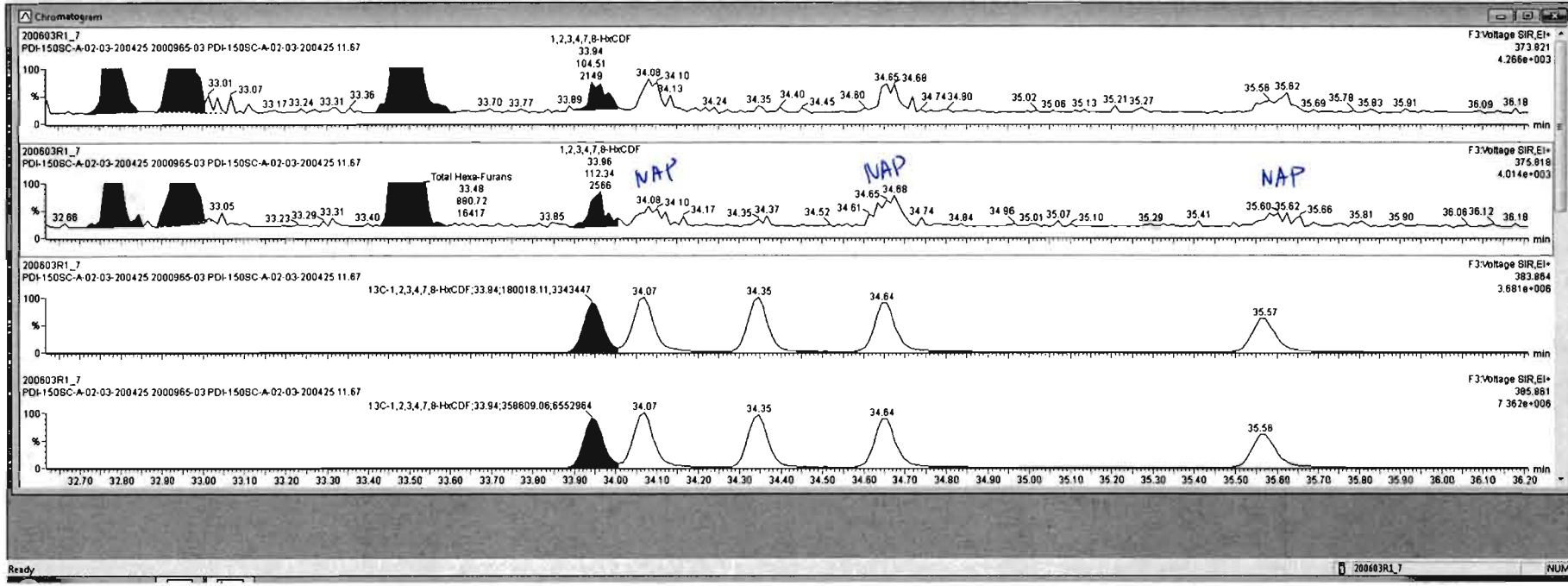


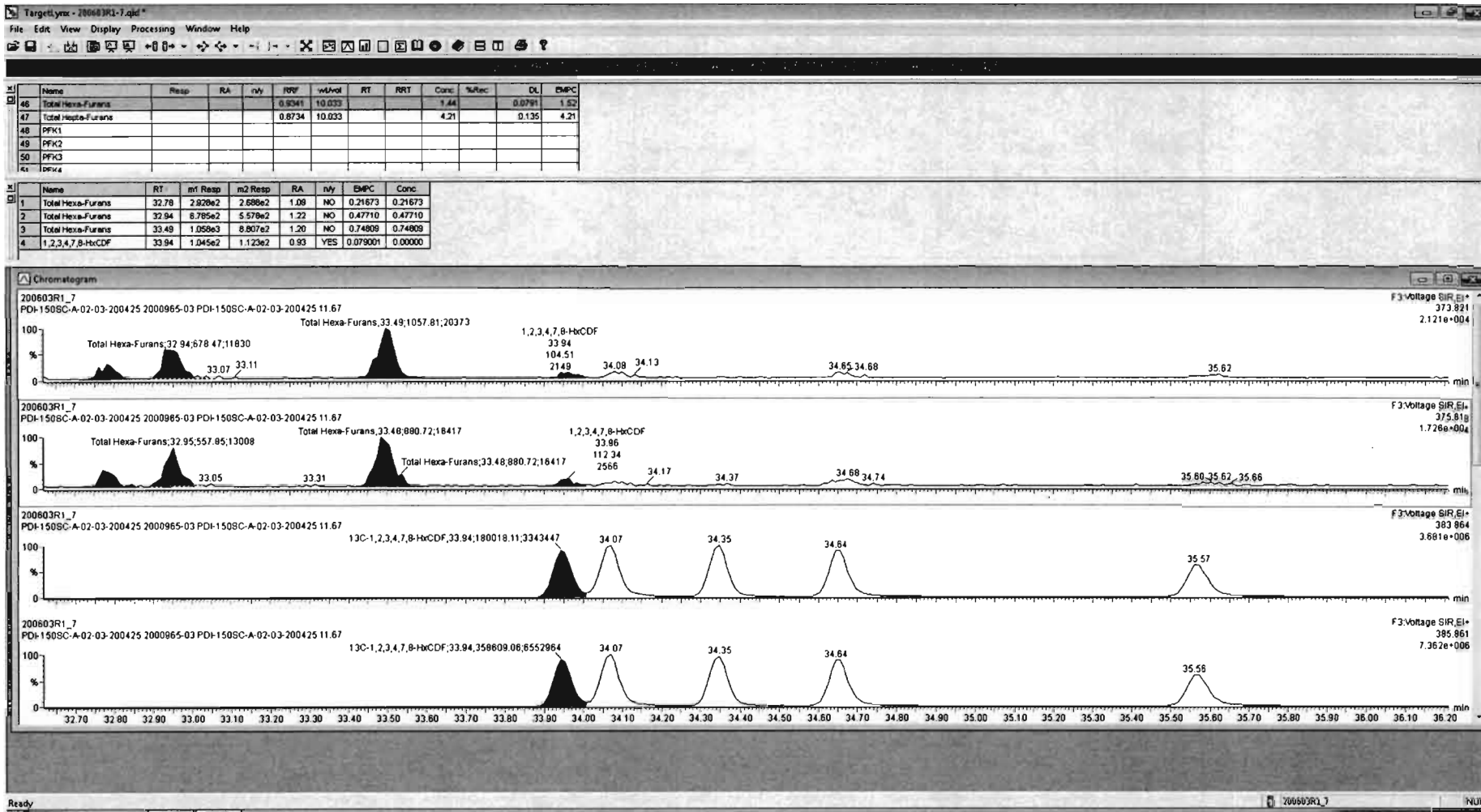
DPE3



Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.9361	10.033			1.44		0.0791	1.52
47 Total Hepta-Furans				0.8734	10.033			4.21		0.135	4.21
48 PFK1											
49 PFK2											
50 PFK3											
51 DFKA											

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1 Total Hexa-Furans	32.78	2.928e2	2.689e2	1.09	NO	0.21673	0.21673
2 Total Hexa-Furans	32.94	6.785e2	5.578e2	1.22	NO	0.47710	0.47710
3 Total Hexa-Furans	33.49	1.058e3	8.807e2	1.20	NO	0.74809	0.74809
4 1,2,3,4,7,8-HxCDF	33.94	1.045e2	1.123e2	0.93	YES	0.079001	0.00000





Dataset: Untitled

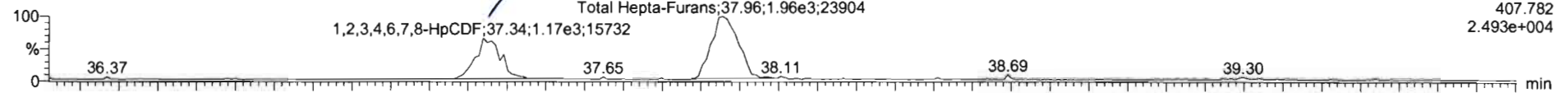
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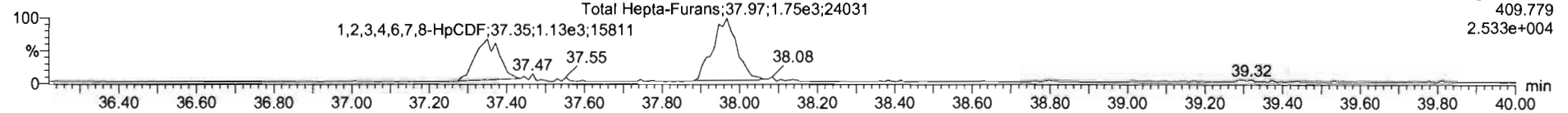
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1,2,3,4,6,7,8-HpCDF

200603R1_7

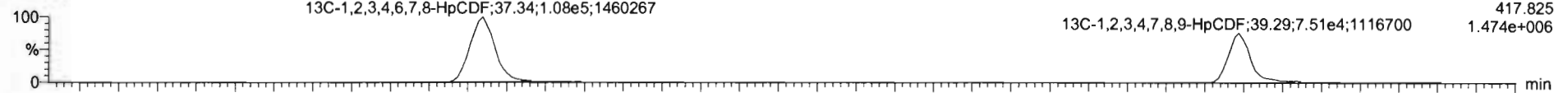


200603R1_7

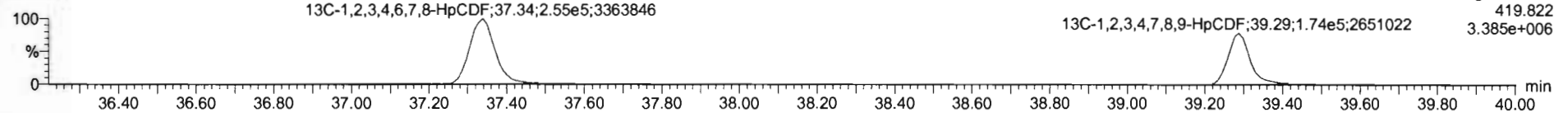


13C-1,2,3,4,6,7,8-HpCDF

200603R1_7

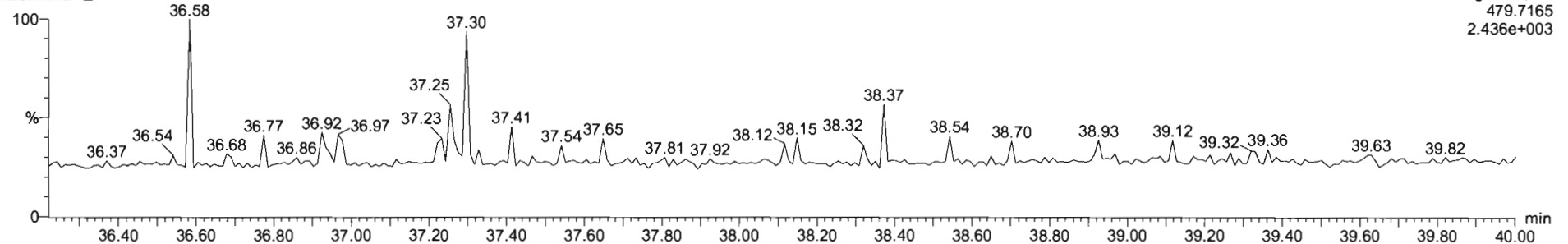


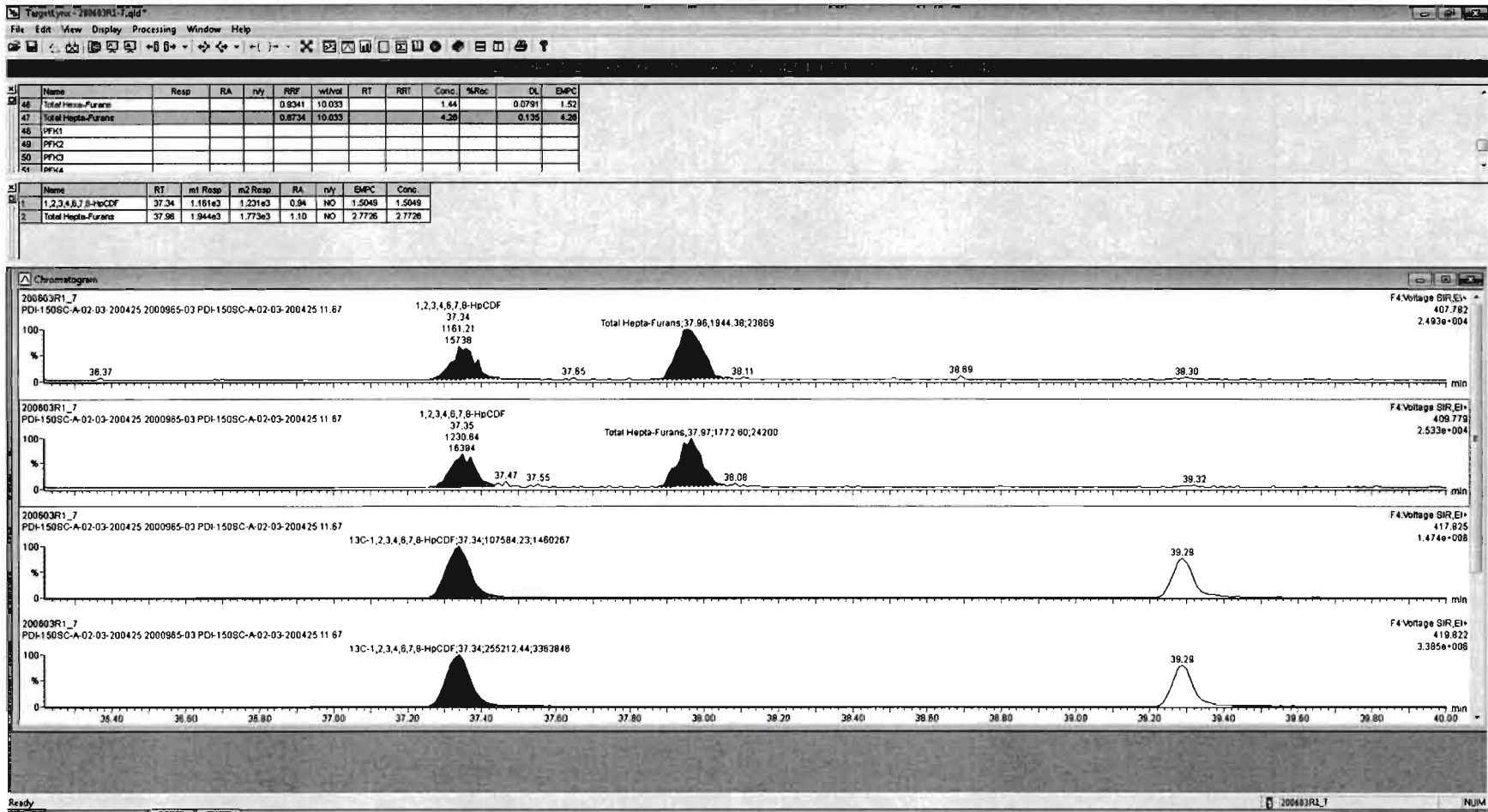
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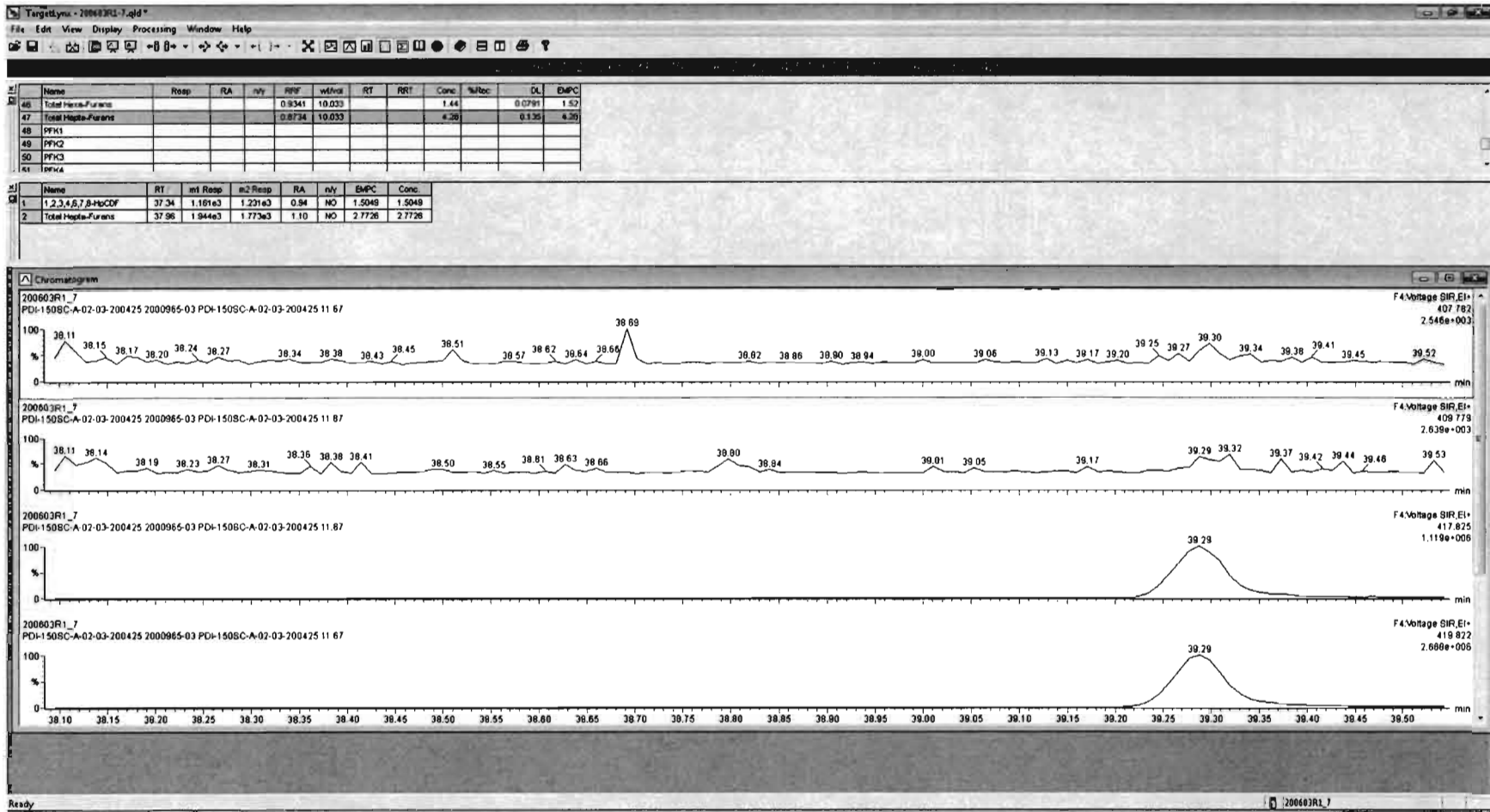


DPE4

200603R1_7



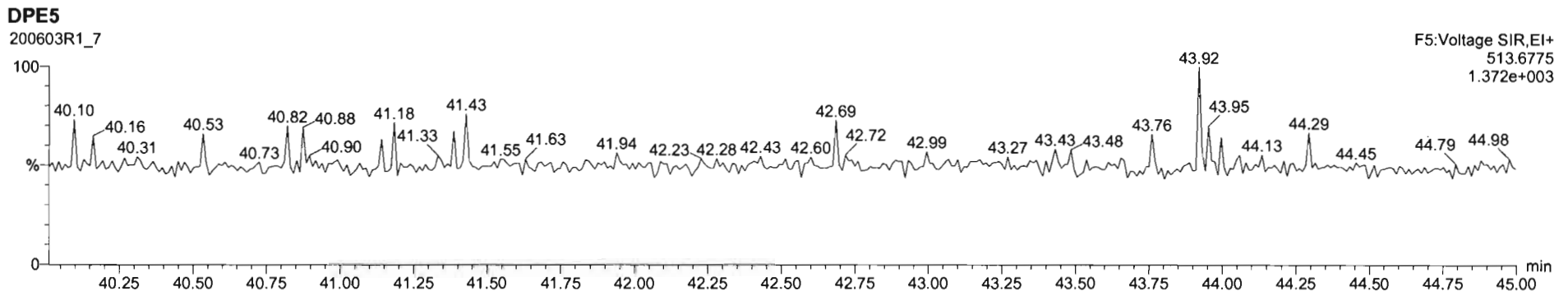
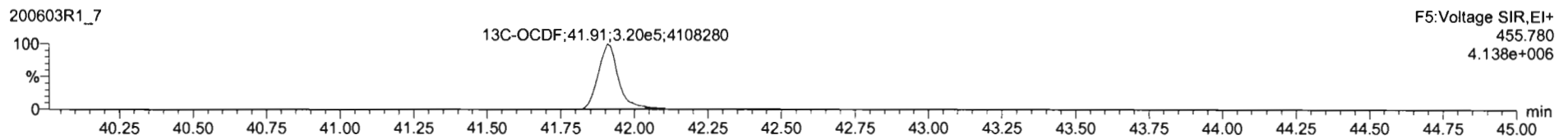
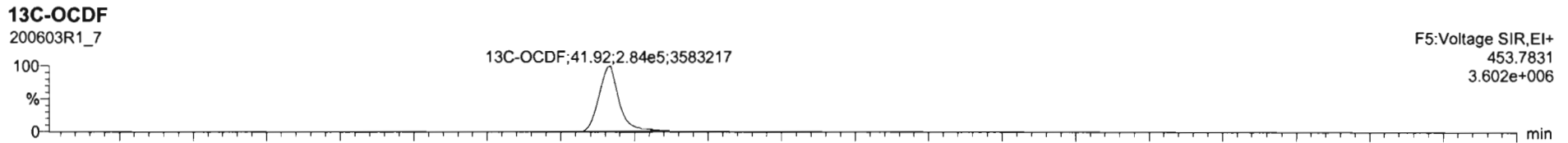
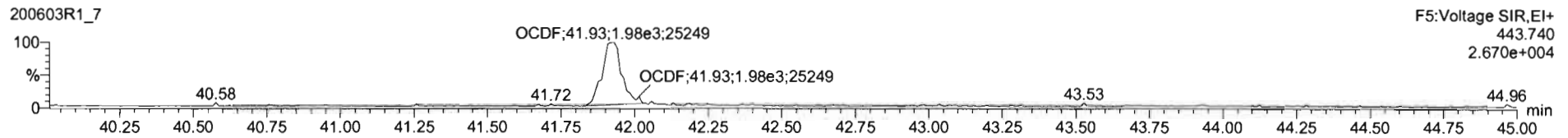
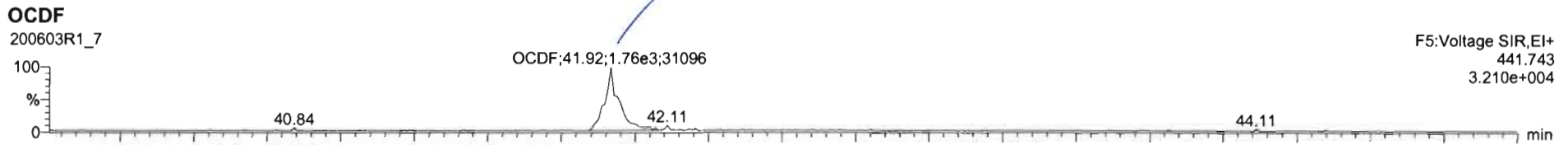


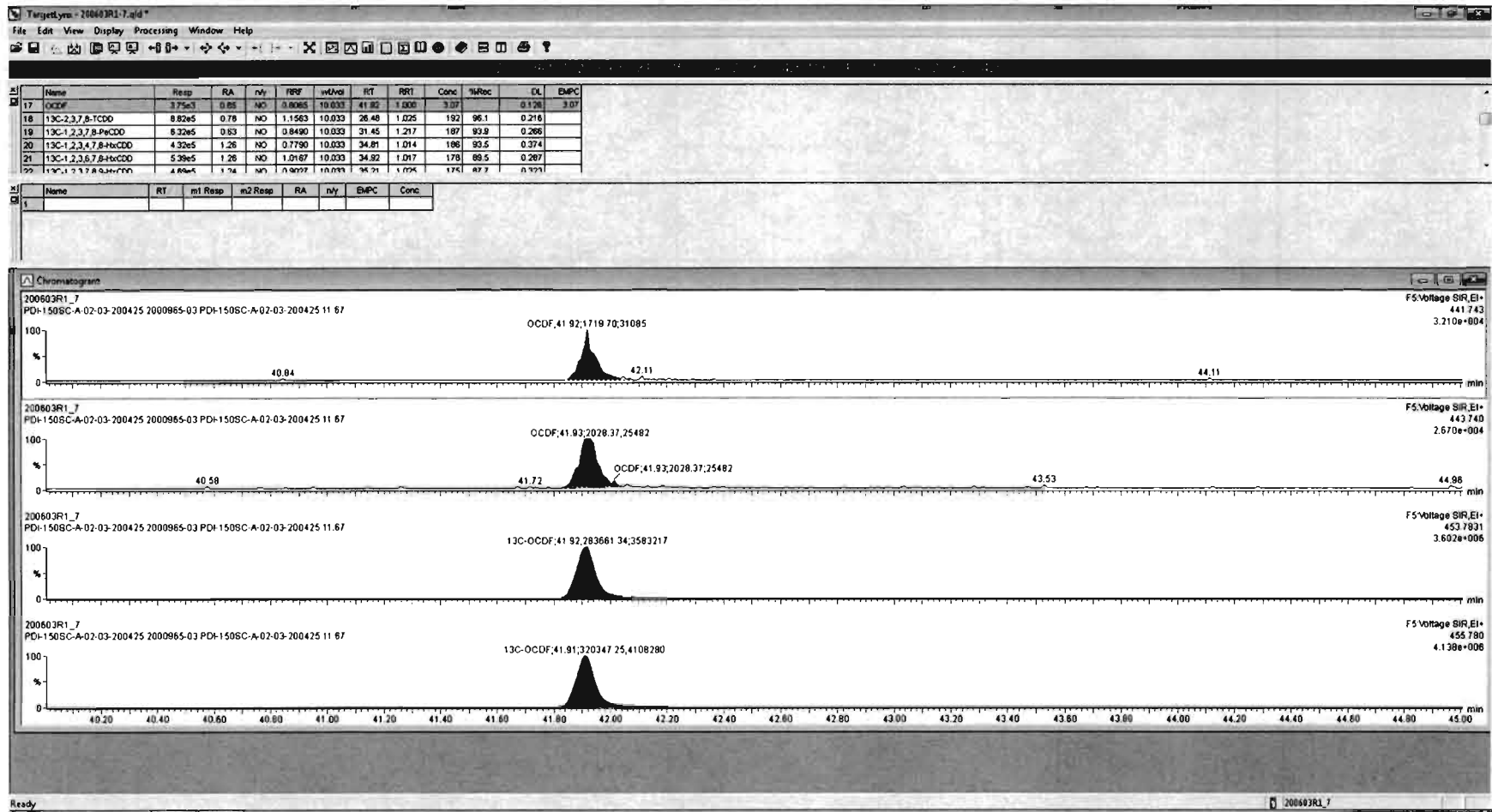


Dataset: Untitled

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Name: 200603R1_7, Date: 03-Jun-2020, Time: 12:46:20, ID: 2000965-03 PDI-150SC-A-02-03-200425 11.67, Description: PDI-150SC-A-02-03-200425



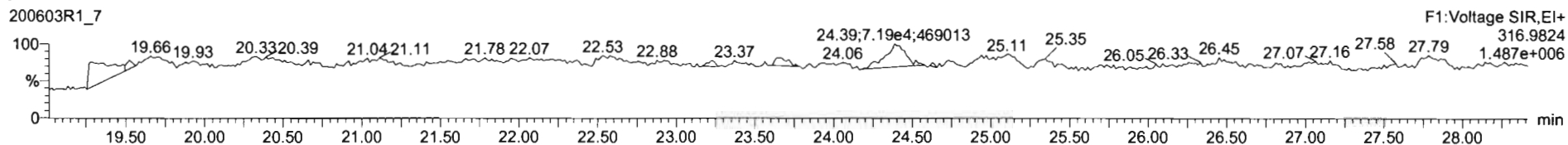


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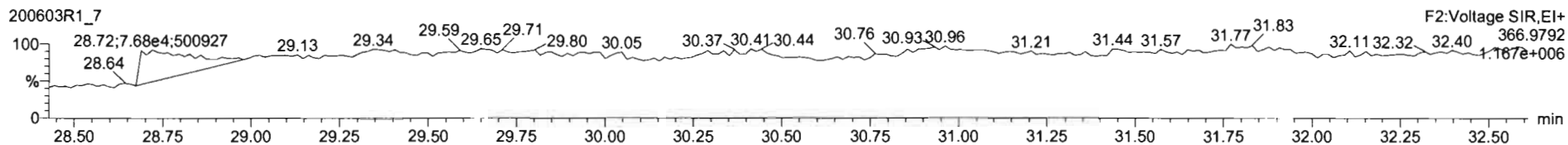
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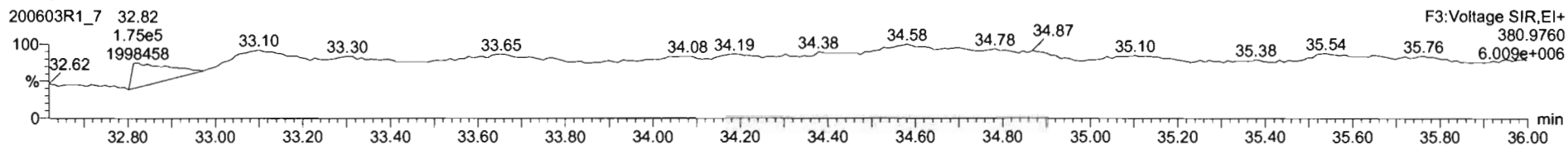
PFK1



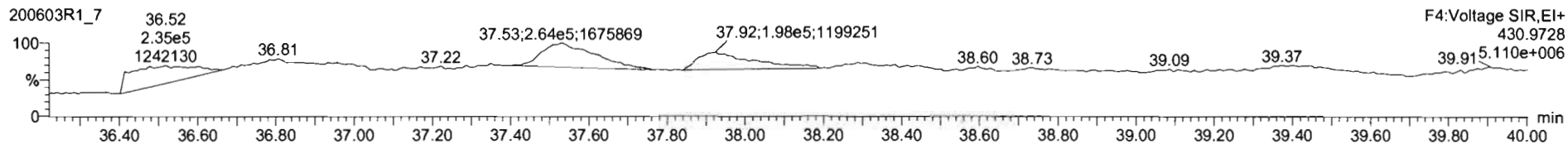
PFK2



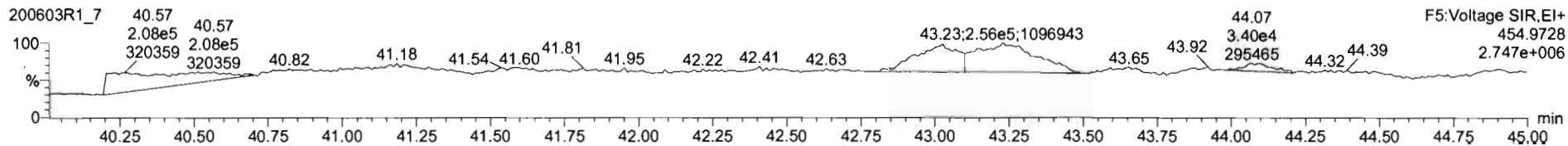
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R1\200603R1-8.qld

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Printed: Thursday, June 04, 2020 15:32:17 Pacific Daylight Time

GRB 06/04/2020

CT06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_8, Date: 03-Jun-2020, Time: 13:32:34, ID: 2000965-04 PDI-150SC-A-03-04-200425 13.02, Description: PDI-150SC-A-03-04-200425

#	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	0.888	10.315	26.531		1.001				0.0543	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.315	31.488		1.001				0.0833	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.315	34.846		1.000				0.0753	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.315	34.932		1.000				0.0769	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.315	35.231		1.000				0.0922	
6	6 1,2,3,4,6,7,8-HpCDD	3.47e3	0.90	NO	0.864	10.315	38.768	38.77	1.000	1.000	2.6126		0.134	2.61
7	7 OCDD	3.66e4	0.89	NO	0.914	10.315	41.727	41.75	1.000	1.001	30.822		0.231	30.8
8	8 2,3,7,8-TCDF			NO	0.751	10.315	25.627		1.001				0.0451	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.315	30.205		1.001				0.0548	
10	10 2,3,4,7,8-PeCDF	2.06e2	1.46	NO	0.935	10.315	31.192	31.19	1.001	1.001	0.048274		0.0483	0.0483
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.315	33.963		1.000				0.0785	
12	12 1,2,3,6,7,8-HxCDF	2.15e2	0.98	YES	0.889	10.315	34.090	34.10	1.000	1.001	0.073586		0.0677	0.0684
13	13 2,3,4,6,7,8-HxCDF	2.30e2	1.18	NO	0.934	10.315	34.701	34.68	1.001	1.000	0.087944		0.0677	0.0879
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.315	35.571		1.000				0.108	
15	15 1,2,3,4,6,7,8-HpCDF	2.33e3	1.06	NO	0.873	10.315	37.376	37.35	1.001	1.000	1.4630		0.0791	1.46
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.315	39.299		1.000				0.0820	
17	17 OCDF	1.75e3	0.89	NO	0.806	10.315	41.919	41.92	1.000	1.000	1.4425		0.109	1.44
18	18 13C-2,3,7,8-TCDD	8.78e5	0.78	NO	1.16	10.315	26.522	26.50	1.026	1.026	223.17	115	0.228	
19	19 13C-1,2,3,7,8-PeCDD	5.95e5	0.63	NO	0.849	10.315	31.711	31.47	1.227	1.218	205.98	106	0.394	
20	20 13C-1,2,3,4,7,8-HxCDD	3.99e5	1.31	NO	0.779	10.315	34.841	34.84	1.014	1.014	204.54	105	0.372	
21	21 13C-1,2,3,6,7,8-HxCDD	5.09e5	1.28	NO	1.02	10.315	34.955	34.93	1.017	1.017	200.00	103	0.285	
22	22 13C-1,2,3,7,8,9-HxCDD	4.49e5	1.24	NO	0.903	10.315	35.226	35.22	1.025	1.025	198.73	102	0.321	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.98e5	1.05	NO	0.689	10.315	38.751	38.76	1.128	1.128	172.87	89.2	0.565	
24	24 13C-OCDD	5.04e5	0.94	NO	0.652	10.315	41.775	41.73	1.216	1.215	308.51	79.6	0.654	
25	25 13C-2,3,7,8-TCDF	1.12e6	0.77	NO	1.06	10.315	25.564	25.60	0.989	0.991	207.72	107	0.298	
26	26 13C-1,2,3,7,8-PeCDF	9.28e5	1.59	NO	0.838	10.315	30.093	30.18	1.165	1.168	217.82	112	0.536	
27	27 13C-2,3,4,7,8-PeCDF	8.87e5	1.58	NO	0.817	10.315	31.047	31.16	1.202	1.206	213.52	110	0.550	
28	28 13C-1,2,3,4,7,8-HxCDF	4.95e5	0.50	NO	1.01	10.315	33.972	33.96	0.989	0.989	196.47	101	0.733	
29	29 13C-1,2,3,6,7,8-HxCDF	6.14e5	0.50	NO	1.17	10.315	34.096	34.08	0.992	0.992	210.10	108	0.632	
30	30 13C-2,3,4,6,7,8-HxCDF	5.43e5	0.51	NO	1.02	10.315	34.670	34.67	1.009	1.009	212.49	110	0.722	
31	31 13C-1,2,3,7,8,9-HxCDF	4.17e5	0.50	NO	0.860	10.315	35.570	35.57	1.035	1.035	193.92	100	0.859	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-8.qld

Last Altered: Thursday, June 04, 2020 15:31:17 Pacific Daylight Time
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Name: 200603R1_8, Date: 03-Jun-2020, Time: 13:32:34, ID: 2000965-04 PDI-150SC-A-03-04-200425 13.02, Description: PDI-150SC-A-03-04-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.54e5	0.43	NO	0.774	10.315	37.319	37.34	1.086	1.087	182.53	94.1	0.617	
33	13C-1,2,3,4,7,8,9-HpCDF	2.44e5	0.42	NO	0.521	10.315	39.349	39.30	1.145	1.144	186.83	96.4	0.918	
34	13C-OCDF	5.83e5	0.87	NO	0.746	10.315	41.946	41.92	1.221	1.220	312.56	80.6	0.414	
35	37Cl-2,3,7,8-TCDD	2.99e5			1.04	10.315	26.553	26.51	1.028	1.026	84.730	109	0.0486	
36	13C-1,2,3,4-TCDD	6.60e5	0.79	NO	1.00	10.315	25.890	25.84	1.000	1.000	193.89	100	0.264	
37	13C-1,2,3,4-TCDF	9.86e5	0.78	NO	1.00	10.315	24.360	24.16	1.000	1.000	193.89	100	0.315	
38	13C-1,2,3,4,6,9-HxCDF	4.85e5	0.50	NO	1.00	10.315	34.420	34.36	1.000	1.000	193.89	100	0.738	
39	Total Tetra-Dioxins				0.888	10.315	24.620		0.000				0.0324	
40	Total Penta-Dioxins				0.908	10.315	29.960		0.000				0.0546	
41	Total Hexa-Dioxins				0.892	10.315	33.635		0.000		1.0123		0.0848	1.01
42	Total Hepta-Dioxins				0.864	10.315	37.640		0.000		6.8982		0.134	6.90
43	Total Tetra-Furans				0.751	10.315	23.610		0.000		0.44405		0.0451	0.526
44	1st Func. Penta-Furans				0.893	10.315	27.580		0.000		0.84626		0.0174	0.846
45	Total Penta-Furans				0.893	10.315	29.275		0.000		0.59259		0.0527	0.593
46	Total Hexa-Furans				0.934	10.315	33.555		0.000		1.3992		0.0749	1.47
47	Total Hepta-Furans				0.873	10.315	37.835		0.000		3.3870		0.0857	3.39

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-8.qld

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_8, Date: 03-Jun-2020, Time: 13:32:34, ID: 2000965-04 PDI-150SC-A-03-04-200425 13.02, Description: PDI-150SC-A-03-04-200425

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	33.35	1.485e4	1.074e4	6.314e2	5.669e2	1.11	NO	1.198e3	0.57570	0.57570	0.0848
2	Total Hexa-Dioxins	34.15	9.670e3	6.689e3	5.305e2	3.781e2	1.40	NO	9.086e2	0.43656	0.43656	0.0848

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.74	4.055e4	3.415e4	2.806e3	2.888e3	0.97	NO	5.694e3	4.2856	4.2856	0.134
2	1,2,3,4,6,7,8-HpCDD	38.77	2.561e4	2.653e4	1.645e3	1.826e3	0.90	NO	3.471e3	2.6126	2.6126	0.134

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.50	4.028e3	6.458e3	4.244e2	5.575e2	0.76	NO	9.820e2	0.22662	0.22662	0.0451
2	Total Tetra-Furans	22.47	1.780e3	2.490e3	1.602e2	2.278e2	0.70	NO	3.880e2	0.089554	0.089554	0.0451
3	Total Tetra-Furans	23.00	2.638e3	3.616e3	2.445e2	3.096e2	0.79	NO	5.541e2	0.12787	0.12787	0.0451
4	Total Tetra-Furans	24.10	1.889e3	3.473e3	1.549e2	2.390e2	0.65	YES	0.000e0	0.00000	0.082160	0.0451

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-8.qld

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Name: 200603R1_8, Date: 03-Jun-2020, Time: 13:32:34, ID: 2000965-04 PDI-150SC-A-03-04-200425 13.02, Description: PDI-150SC-A-03-04-200425

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	27.62	3.336e4	2.083e4	2.227e3	1.308e3	1.70	NO	3.535e3	0.84626	0.84626	0.0174

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.21	8.420e3	5.331e3	6.885e2	4.595e2	1.50	NO	1.148e3	0.27482	0.27482	0.0527
2	Total Penta-Furans	29.79	6.479e3	6.617e3	4.691e2	2.899e2	1.62	NO	7.590e2	0.18170	0.18170	0.0527
3	2,3,4,7,8-PeCDF	31.19	3.500e3	3.553e3	1.226e2	8.372e1	1.46	NO	2.064e2	0.048274	0.048274	0.0483
4	Total Penta-Furans	31.22	5.929e3	4.707e3	2.214e2	1.453e2	1.52	NO	3.667e2	0.087785	0.087785	0.0527

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	5.766e3	5.368e3	2.906e2	2.598e2	1.12	NO	5.504e2	0.22077	0.22077	0.0749
2	Total Hexa-Furans	32.96	1.258e4	1.207e4	6.350e2	5.420e2	1.17	NO	1.177e3	0.47214	0.47214	0.0749
3	Total Hexa-Furans	33.52	1.912e4	1.457e4	8.877e2	6.539e2	1.36	NO	1.542e3	0.61838	0.61838	0.0749
4	1,2,3,6,7,8-HxCDF	34.10	3.405e3	2.178e3	1.066e2	1.084e2	0.98	YES	2.150e2	0.00000	0.068399	0.0677
5	2,3,4,6,7,8-HxCDF	34.68	2.915e3	2.540e3	1.247e2	1.056e2	1.18	NO	2.303e2	0.087944	0.087944	0.0677

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	37.35	1.840e4	1.542e4	1.199e3	1.133e3	1.06	NO	2.332e3	1.4630	1.4630	0.0791
2	Total Hepta-Furans	37.98	1.679e4	2.080e4	1.294e3	1.295e3	1.00	NO	2.589e3	1.9241	1.9241	0.0857

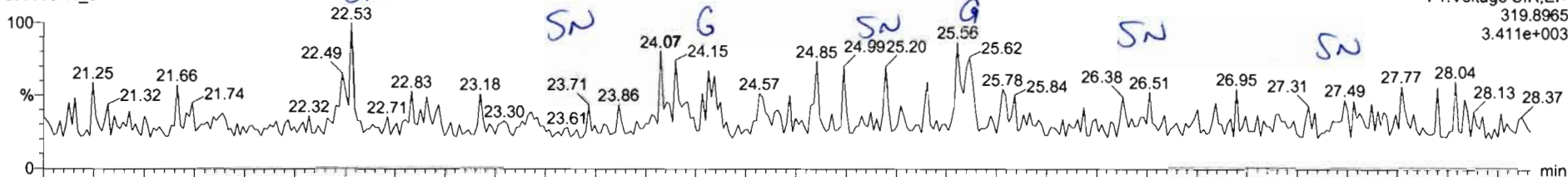
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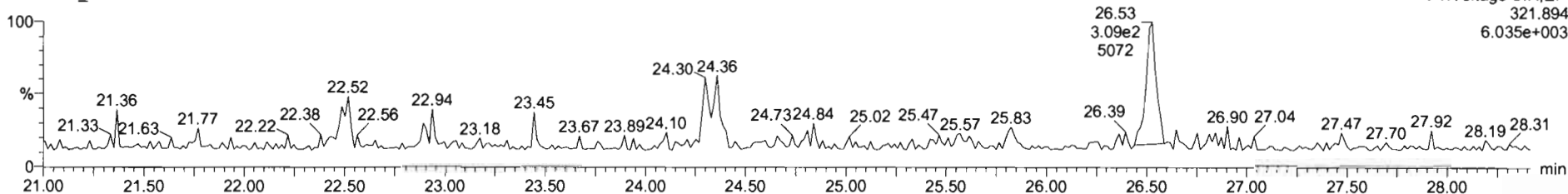
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2,3,7,8-TCDD

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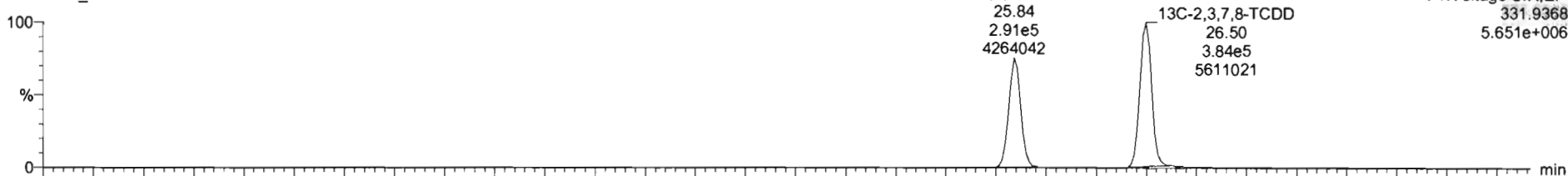


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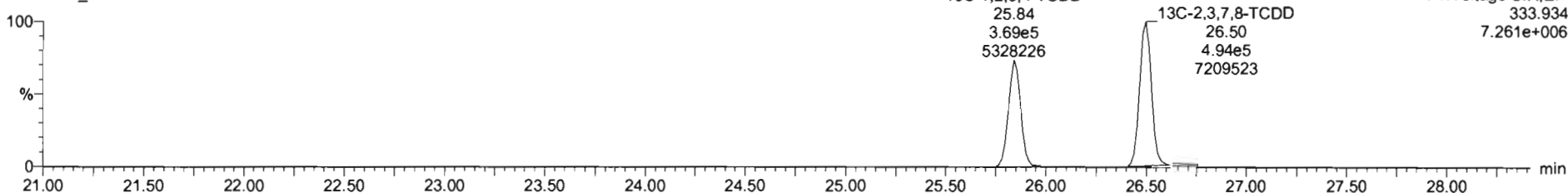


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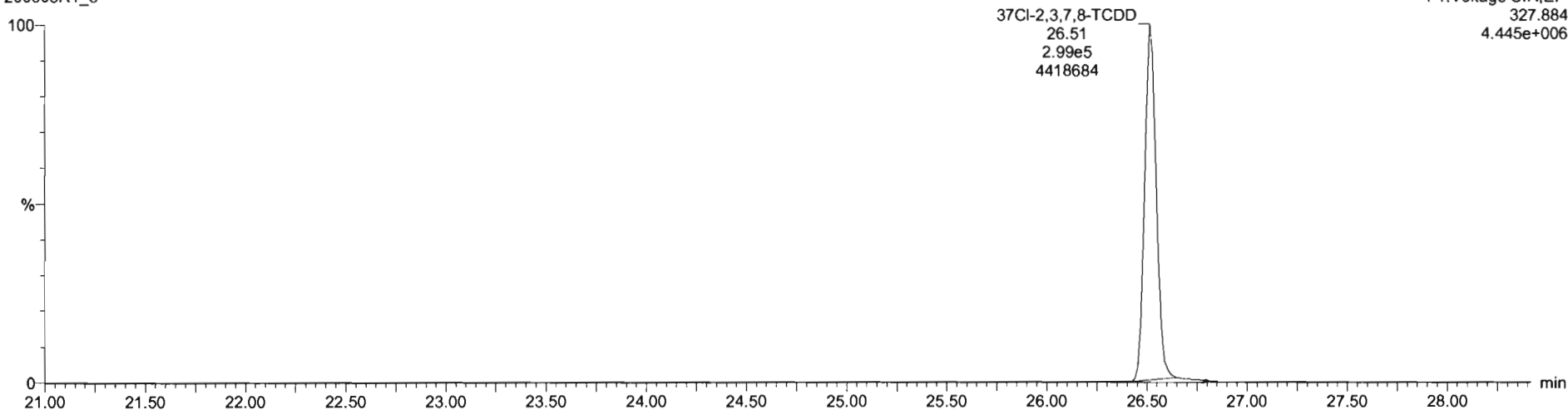
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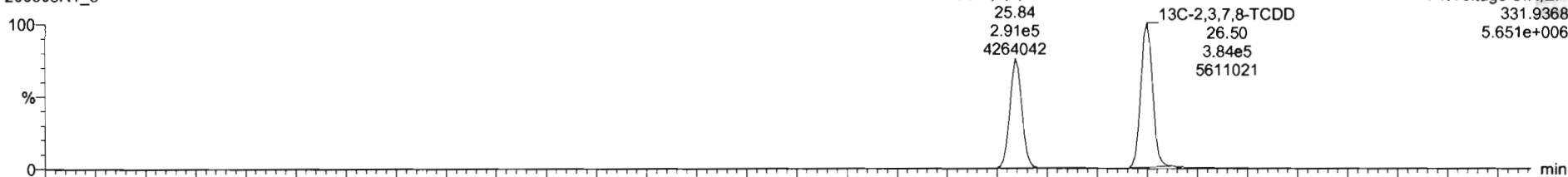
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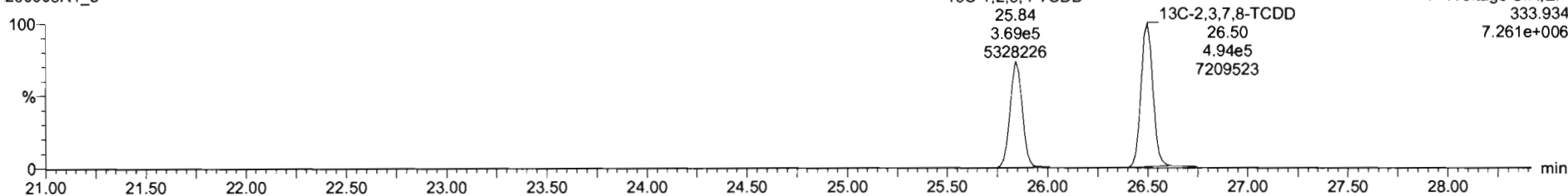


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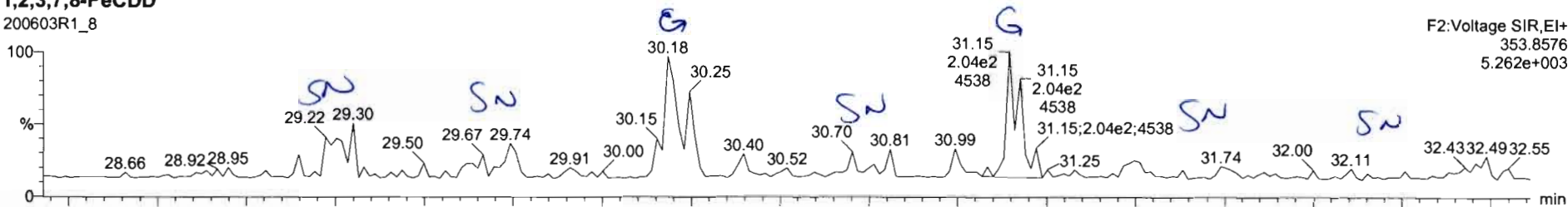
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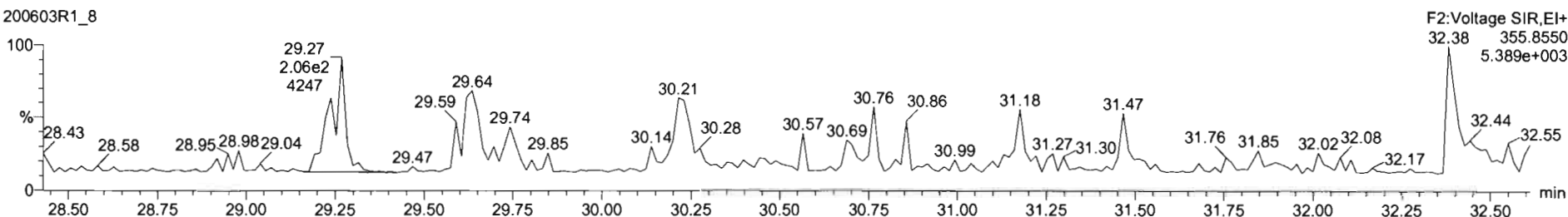
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5.262e+003

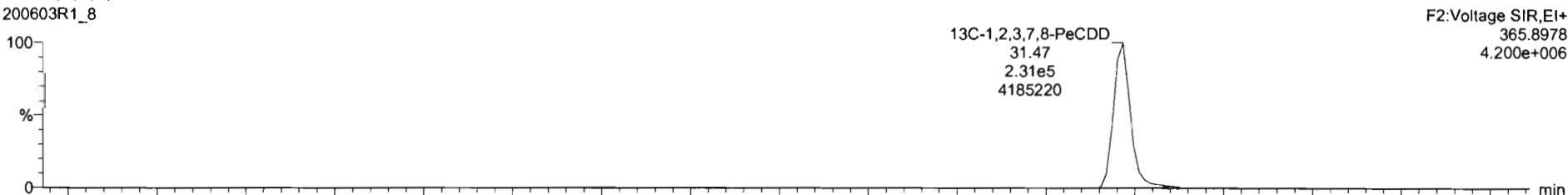
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F2:Voltage SIR,EI+
355.8550
5.389e+003

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

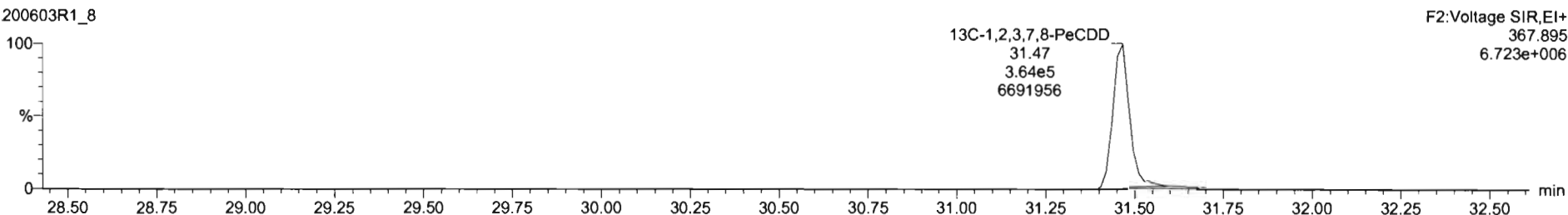
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2.31e5
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F2:Voltage SIR,EI+
365.8978
4.200e+006

200603R1_8



13C-1,2,3,7,8-PeCDD
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3.64e5
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F2:Voltage SIR,EI+
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6.723e+006

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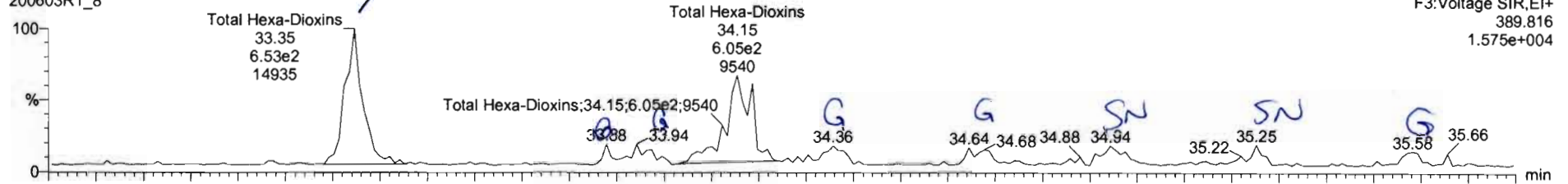
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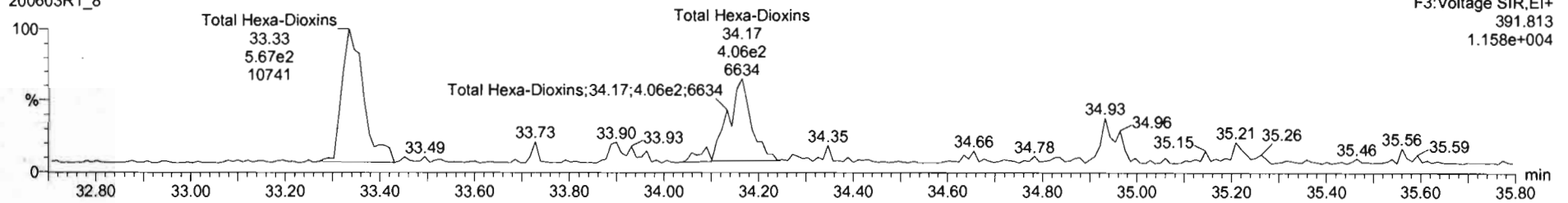
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1,2,3,4,7,8-HxCDD

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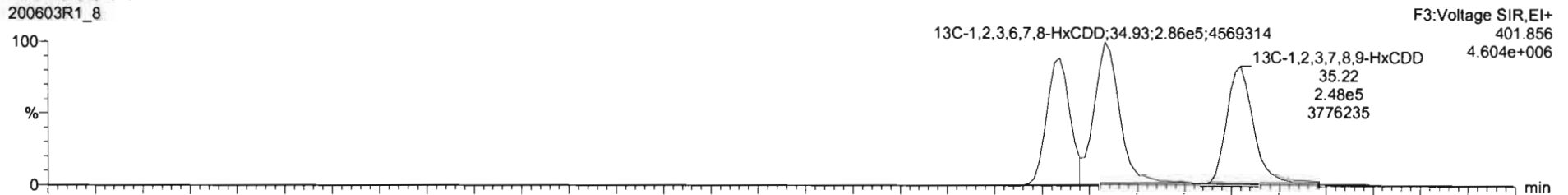


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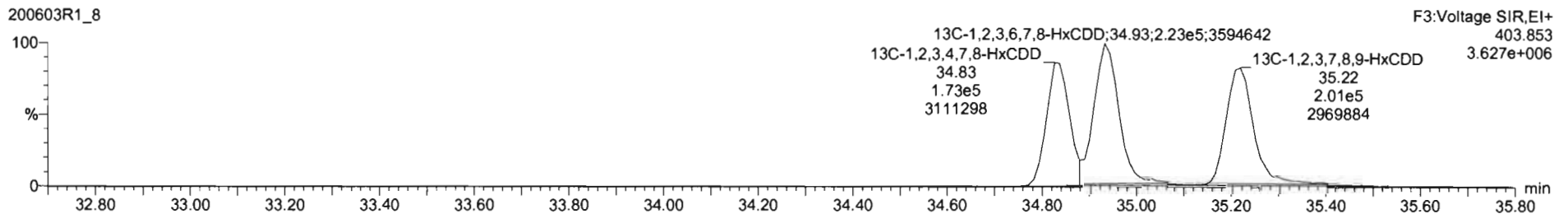


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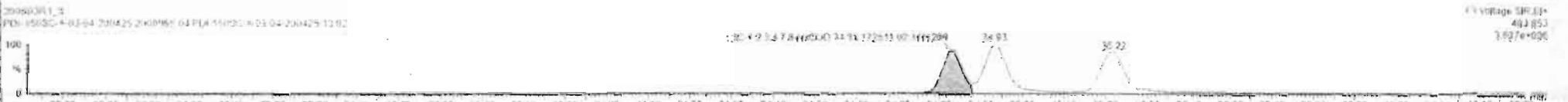
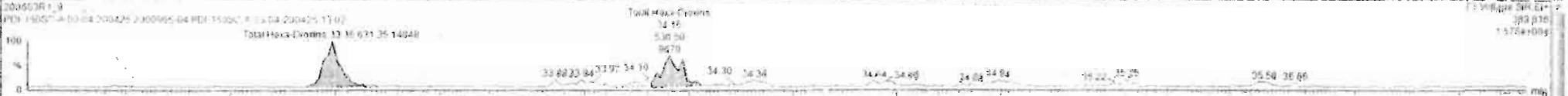
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200603R1_8



Line	Comp	Rept	HA	WY	REV	ACCT	HT	QTY	UNIT	PRICE	TOTL
38	13C-1234E-D-HSCDF	18562	0.58	90	1.0000	10 315	34 38	1.002	184	100	0.730
39	Total Hexa-Chlorine				0.8563	10 315					0.0237
40	Total Penta-Chlorine				0.0081	10 315					0.0540
41	Total Hexa-Chlorine				0.8644	10 315			0.01		0.0644
42	Total Hepta-Chlorine				0.6538	10 315			0.90		0.134
43	Total Tetra-Chlorine				0.7840	10 315			0.207		0.0421
44	Total Penta-Chlorine				0.8625	10 315			0.848		0.0174
45	Total Hexa-Chlorine				0.8803	10 315			0.612		0.0527
46	Total Hepta-Chlorine				0.6341	10 315			0.472		0.0749
47	Total Tetra-Chlorine				0.8734	10 315			1.20		0.0817
48	PEM1										
49	PEM2										
50	PEM3										
51	PEM4										
52	PEM5										
53	OP1										
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55	OP3										
56	OP4										
57	OP5										
58	OP6										



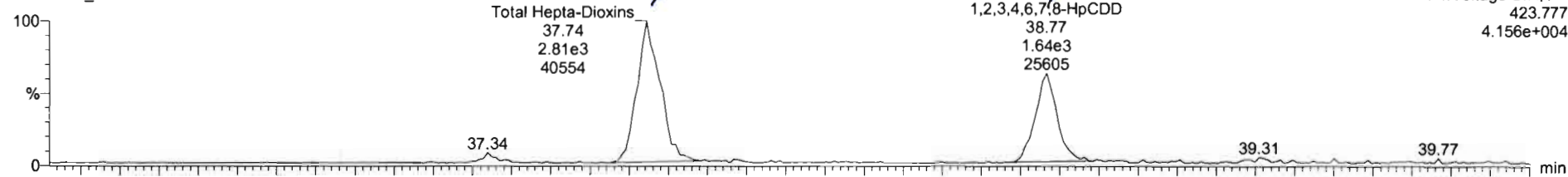
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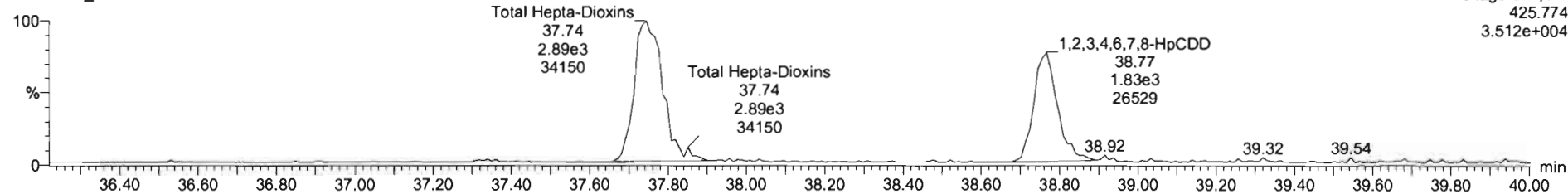
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1,2,3,4,6,7,8-HpCDD

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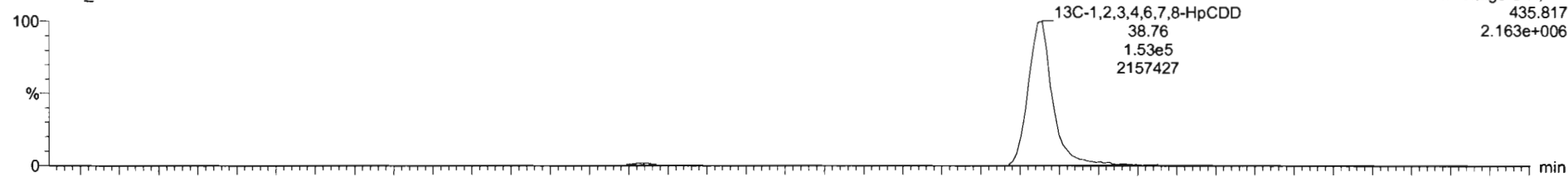


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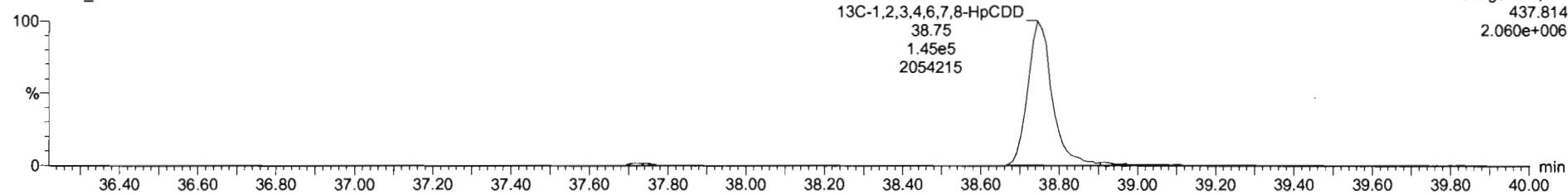


13C-1,2,3,4,6,7,8-HpCDD

200603R1_8



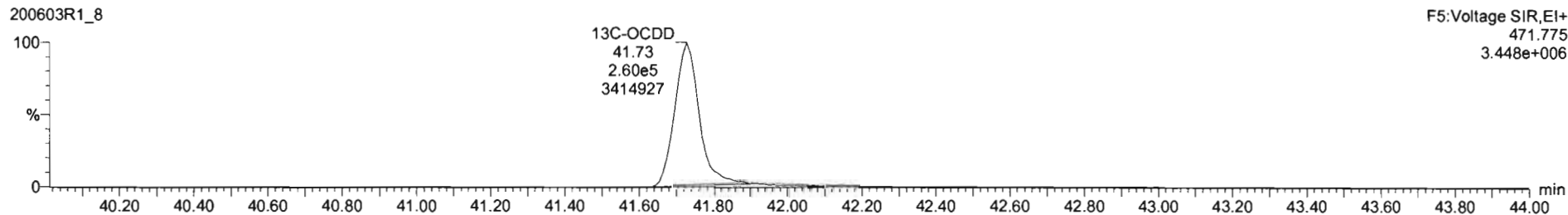
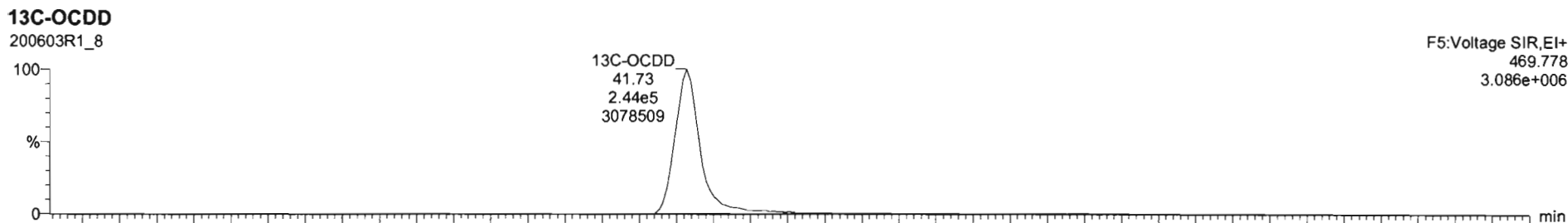
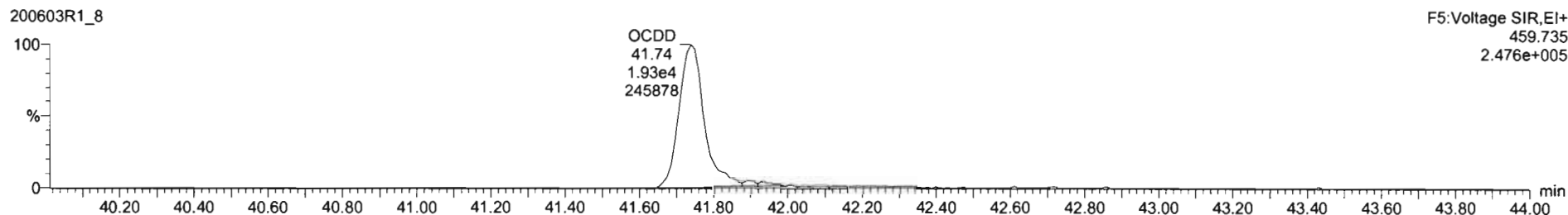
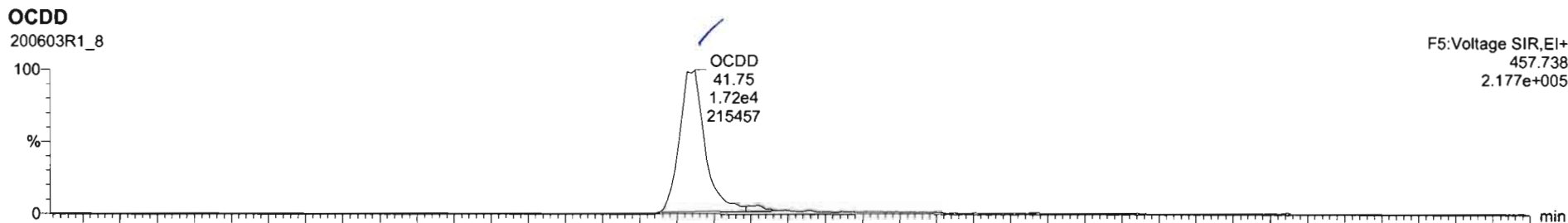
200603R1_8



Dataset: Untitled

Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_8, Date: 03-Jun-2020, Time: 13:32:34, ID: 2000965-04 PDI-150SC-A-03-04-200425 13.02, Description: PDI-150SC-A-03-04-200425



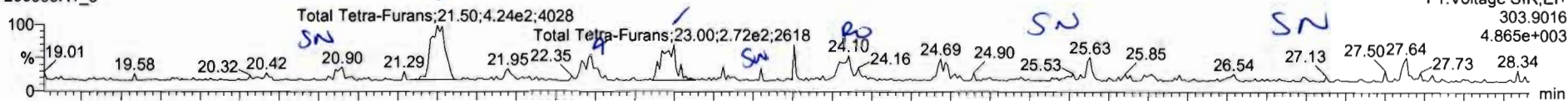
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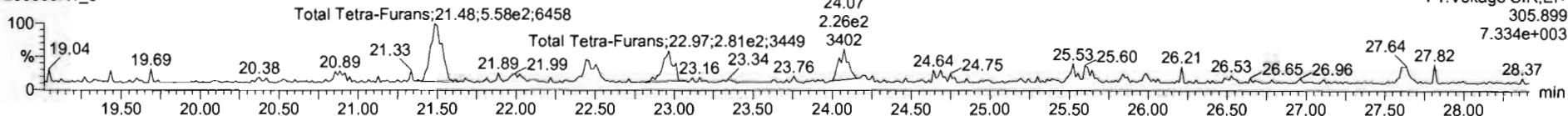
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2,3,7,8-TCDF

200603R1_8

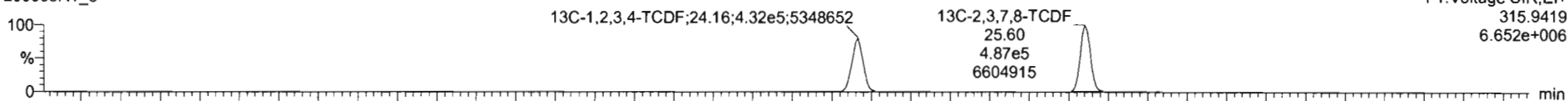


200603R1_8

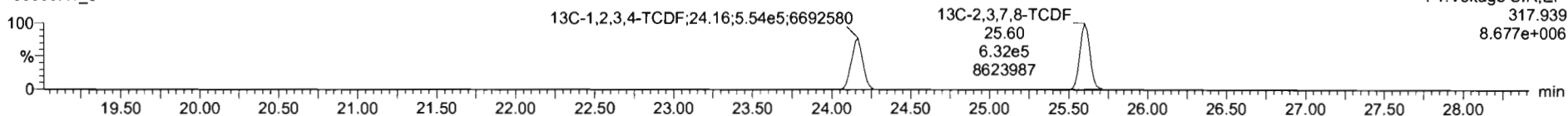


13C-2,3,7,8-TCDF

200603R1_8

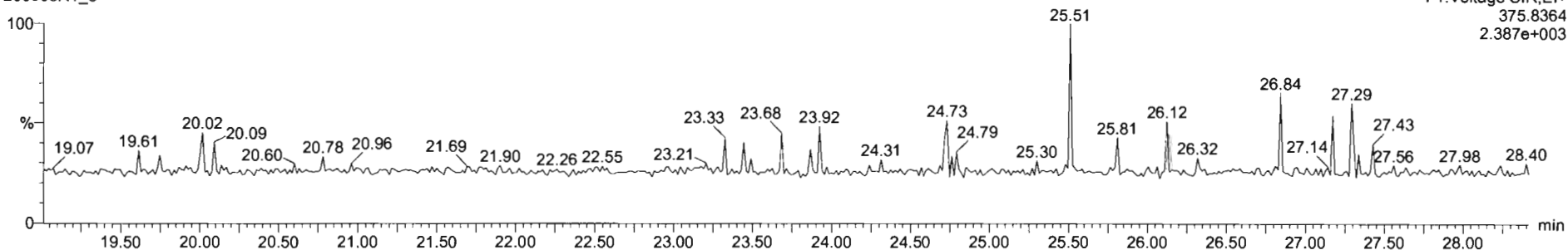


200603R1_8



DPE1

200603R1_8



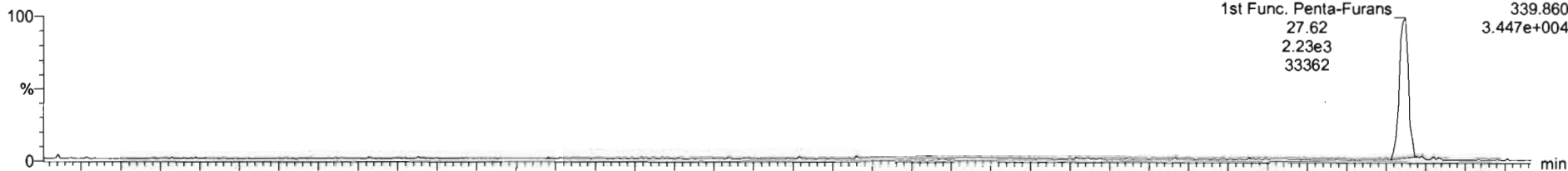
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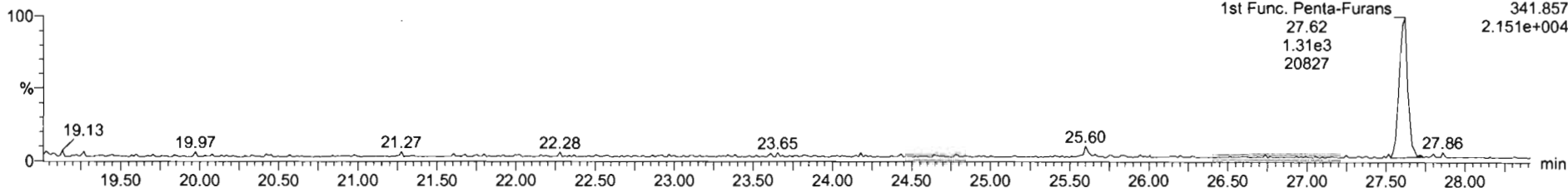
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1st Func. Penta-Furans

200603R1_8

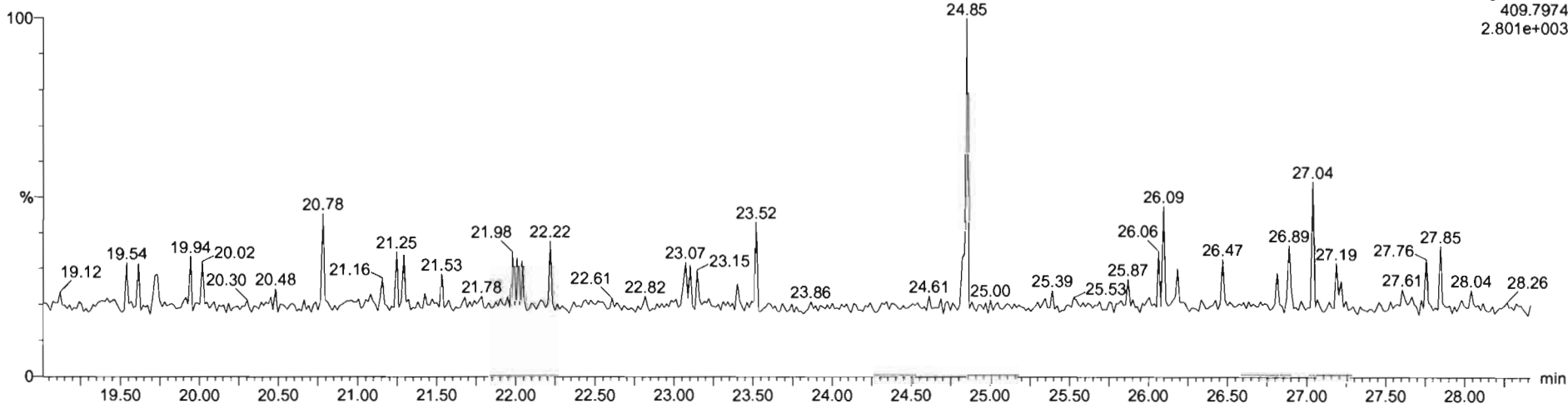


200603R1_8



DPE6

200603R1_8

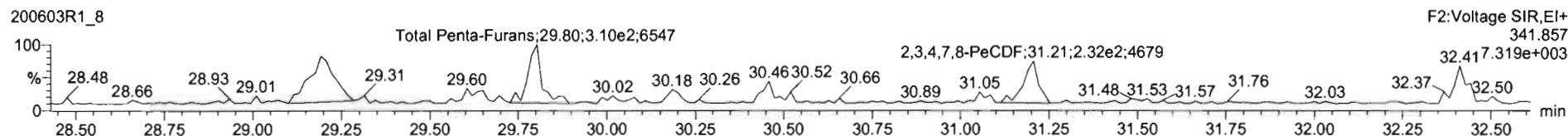
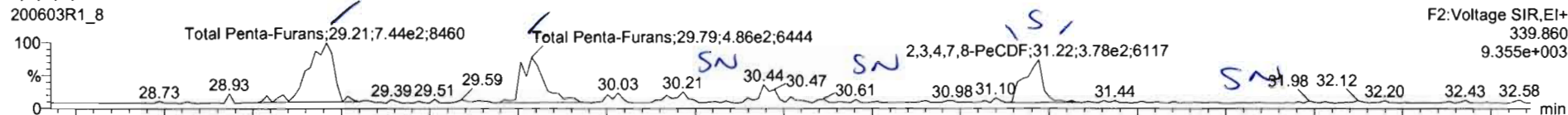


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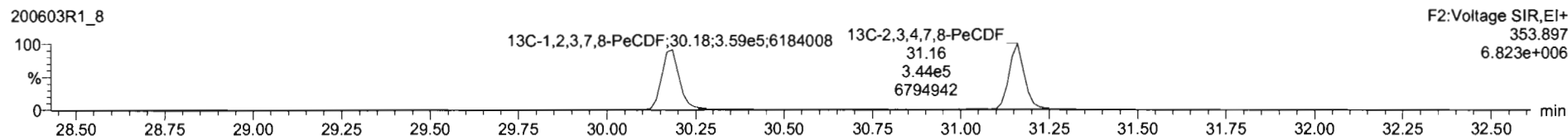
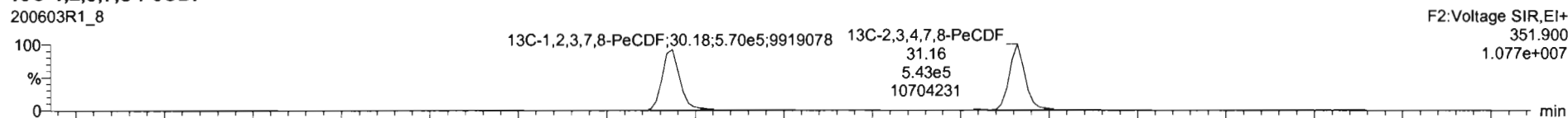
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

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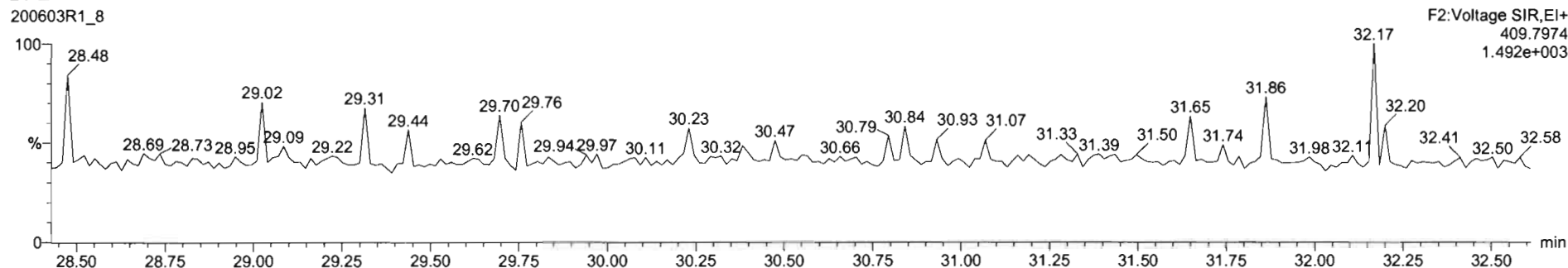
1,2,3,7,8-PeCDF



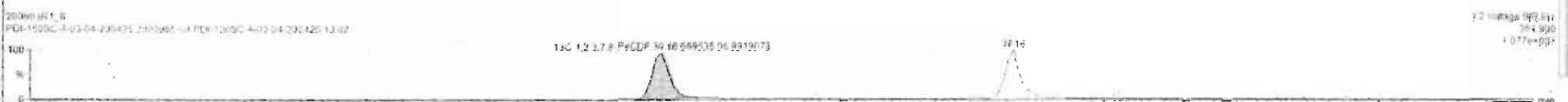
13C-1,2,3,7,8-PeCDF



DPE2



Item	Resp	Sw	Qty	Vol	Wt	HT	HT	Conc	MR	SA	EFFC
38	1,3C-1,2,3+6-SulfurD	4.16e4	0.50	10	1.0000	10.315	34.38	1.000	100	100	0.770
39	Total Tetra-Dioxins				0.853	10.315			100		0.924
40	Total Penta-Dioxins				0.9021	10.315			100		0.946
41	Total Hexa-Dioxins				0.893	10.315		1.01	100		0.940
42	Total Hepta-Dioxins				0.8339	10.315		0.90	100		0.934
43	Total Tetra-Furans				0.7510	10.315		0.444	100		0.943
44	Total Penta-Furans				0.8029	10.315		0.849	100		0.974
45	Total Hexa-Furans				0.9026	10.315		0.753	100		0.947
46	Total Hepta-Furans				0.9341	10.315		0.412	100		0.970
47	Total Octa-Furans				0.8734	10.315		1.36	100		0.987
48	PK1										
49	PK2										
50	PK3										
51	PK4										
52	PK5										
53	DF1										
54	DF2										
55	DF3										
56	DF4										
57	DF5										
58	DF6										



Dataset: Untitled

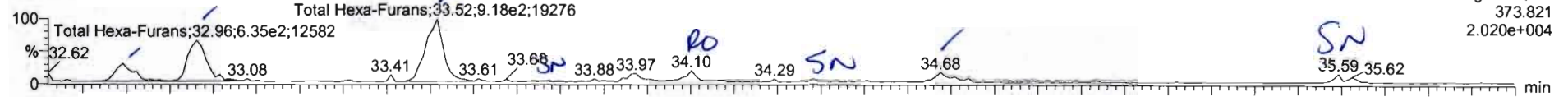
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

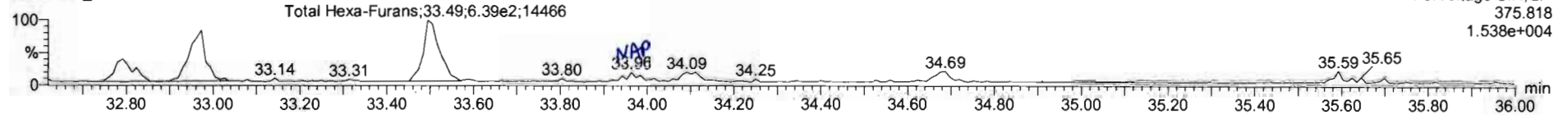
Name: 200603R1_8, Date: 03-Jun-2020, Time: 13:32:34, ID: 2000965-04 PDI-150SC-A-03-04-200425 13.02, Description: PDI-150SC-A-03-04-200425

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

200603R1_8

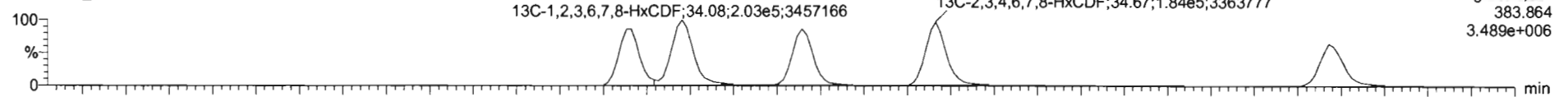


200603R1_8

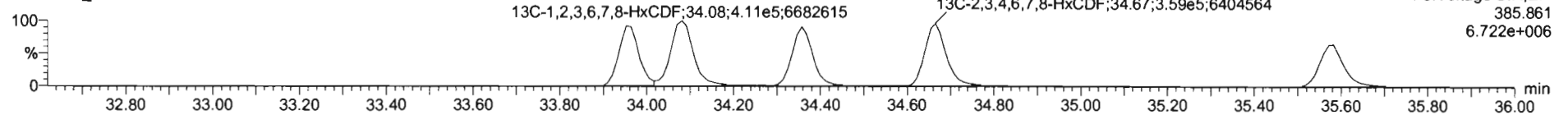


13C-1,2,3,4,7,8-HxCDF

200603R1_8

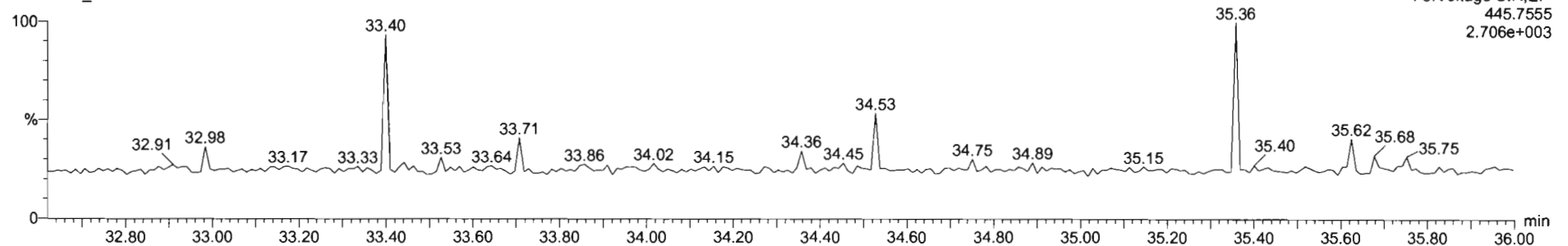


200603R1_8

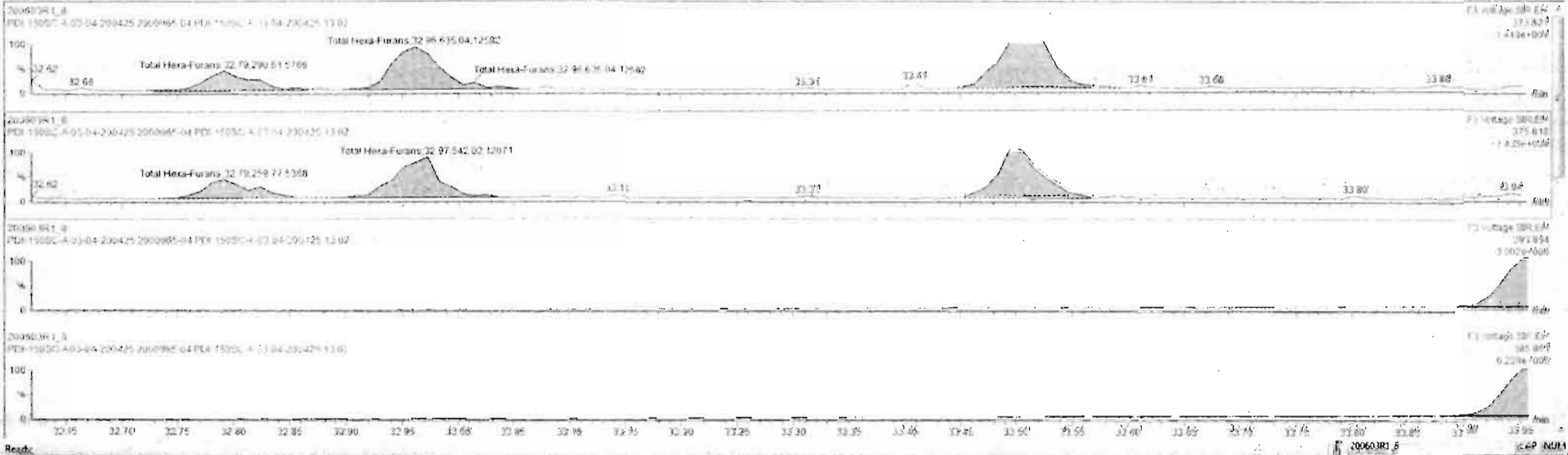


DPE3

200603R1_8

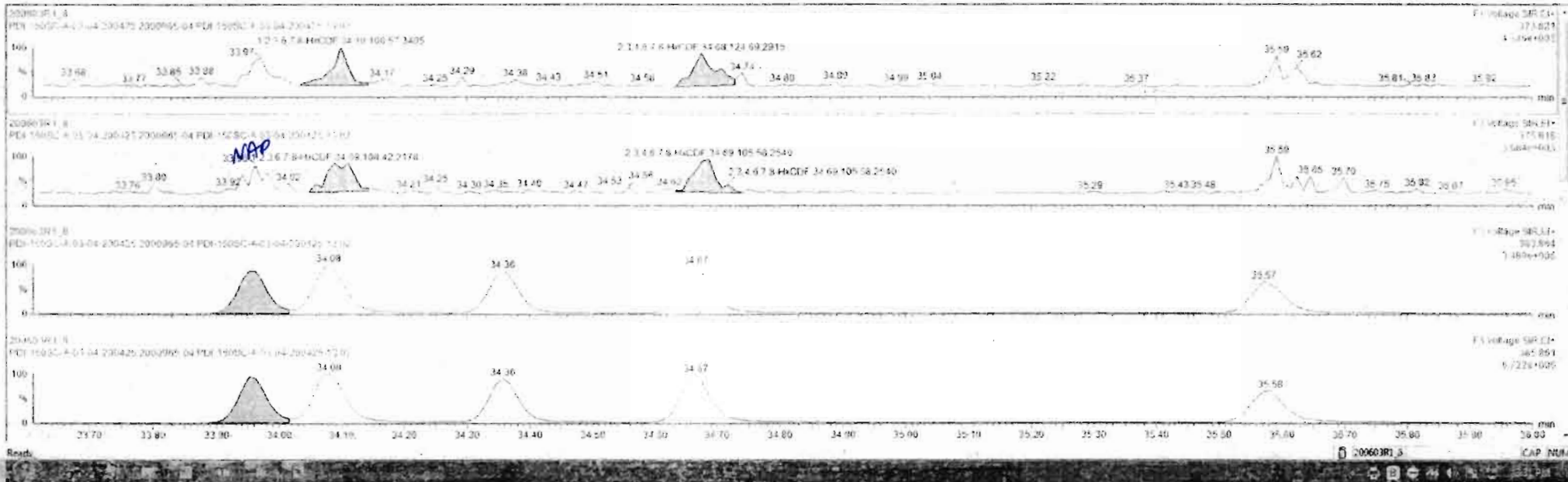


Peak	Name	Area	W	H	RT	WRT	RT	MR1	Conc	MR2	Q1	Q99
38	1,2,3 & 4-Service	4.86e1	0.58	NO	1.8800	10.315	04.36	*000	184	100	0.736	
39	Total Tera-Dioxins				0.8843	10.315					0.0323	
40	Total Penta-Dioxins				0.9001	10.315					0.0046	
41	Total Hexa-Dioxins				0.0927	10.315			1.91		0.0640	0.01
42	Total Hepta-Dioxins				0.6639	10.315			6.50		0.134	6.50
43	Total Tera-Furans				0.1510	10.315			0.444		0.0421	0.546
44	1,4,7,8-Penta-Furans				0.2925	10.315			0.045		0.0174	0.045
45	Total Penta-Furans				0.8525	10.315			0.597		0.0527	0.0527
46	Total Hexa-Furans				0.6341	10.315			1.31		0.0749	1.31
47	Total Hepta-Furans				0.8734	10.315			1.38		0.0827	1.38
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DFE1											
54	DFE2											
55	DFE3											
56	DFE4											
57	DFE5											
58	DFE6											





ID	Name	Resp	NA	NY	NO	WT	RP1	CP10	%Rec	CR	IRMS
35	TOL 1,2 3 4 5 HexCDF	4.55e6	0.58	NO	1.8000	10.115	34.36	1.000	194	180	0.728
36	Total Hexa-Chloro				0.5801	10.115					0.0214
40	Total Penta-Chloro				0.9011	10.315					0.0596
41	Total Hexa-Chloro				0.5927	12.115		1.01			0.0858
42	Total Hepta-Chloro				0.9639	10.315		4.90			0.131
43	Total Octa-Chloro				0.7143	10.315		0.444			0.0421
44	101 Penta-Penta-Furans				0.8021	10.115		0.016			0.0174
45	Total Penta-Furans				0.8021	10.315		0.001			0.0027
46	Total Hexa-Furans				0.8241	10.315		1.40			0.0749
47	Total Hepta-Furans				0.8714	10.315		7.79			0.0817
48	PK1										
49	PK2										
50	PK3										
51	PK4										
52	PK5										
53	PK6										
54	PK7										
55	PK8										
56	PK9										
57	PK10										
58	PK11										



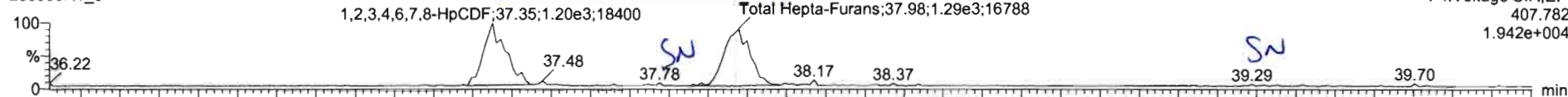
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

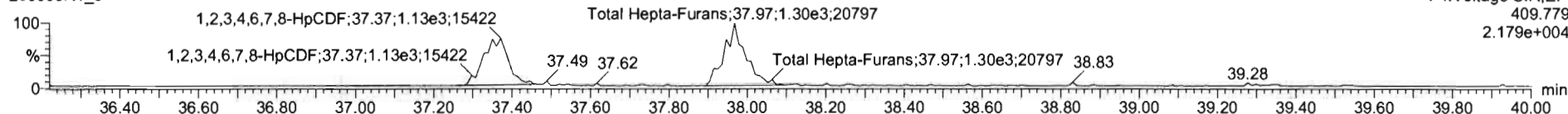
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1,2,3,4,6,7,8-HpCDF

200603R1_8

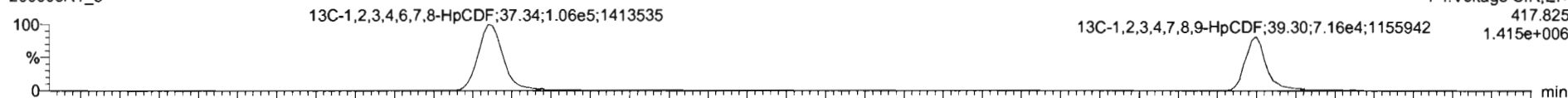


200603R1_8

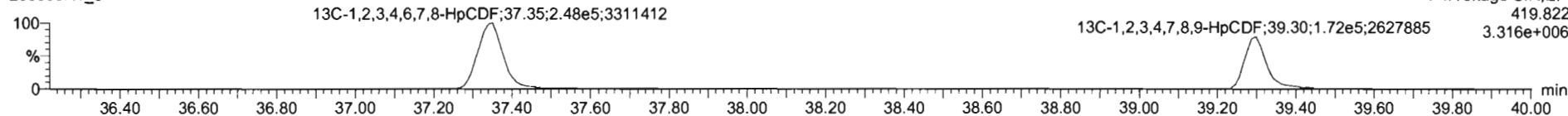


13C-1,2,3,4,6,7,8-HpCDF

200603R1_8

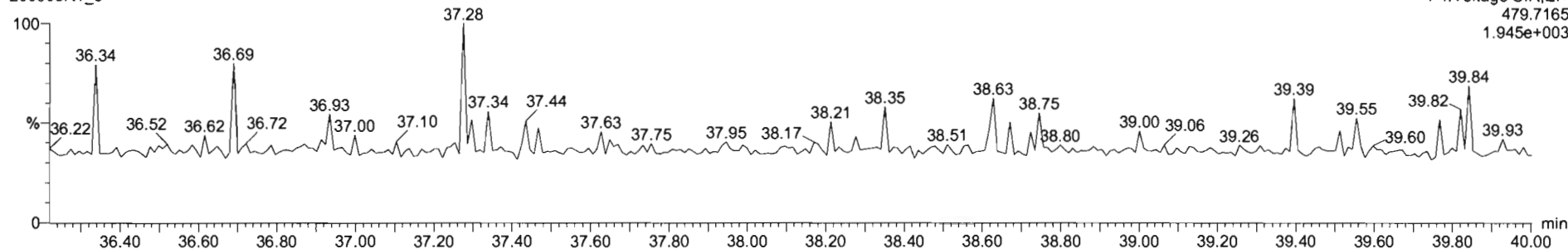


200603R1_8



DPE4

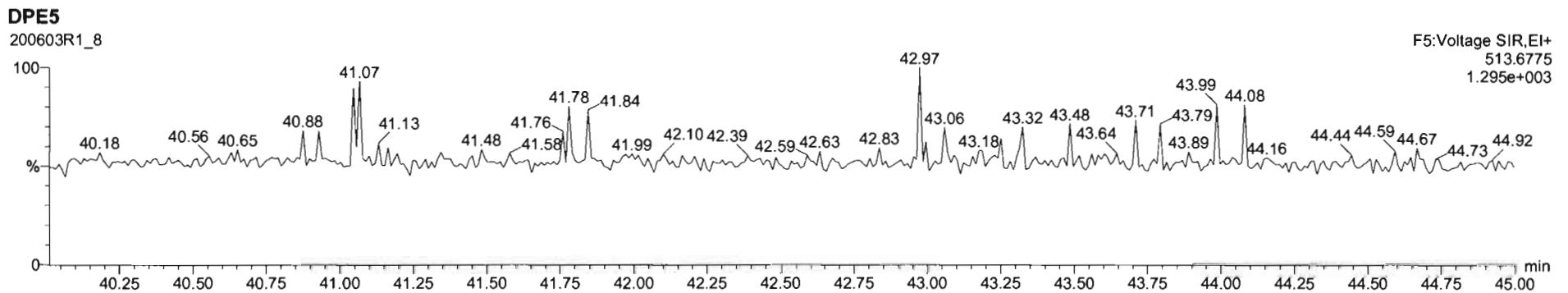
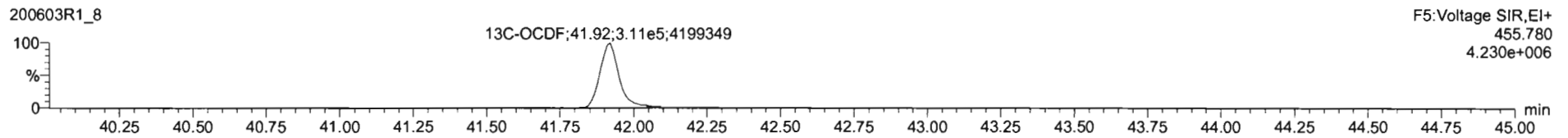
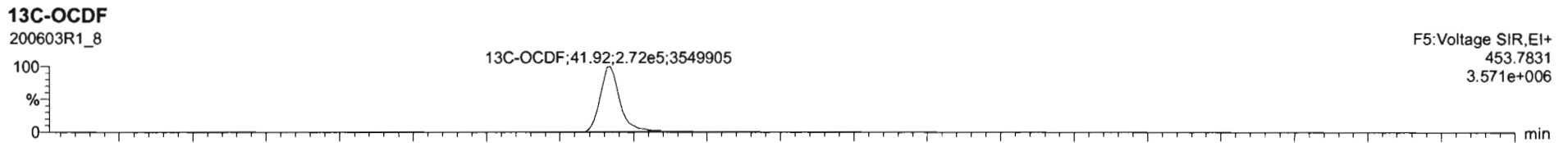
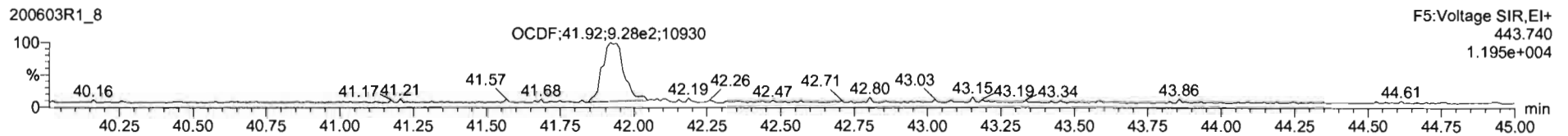
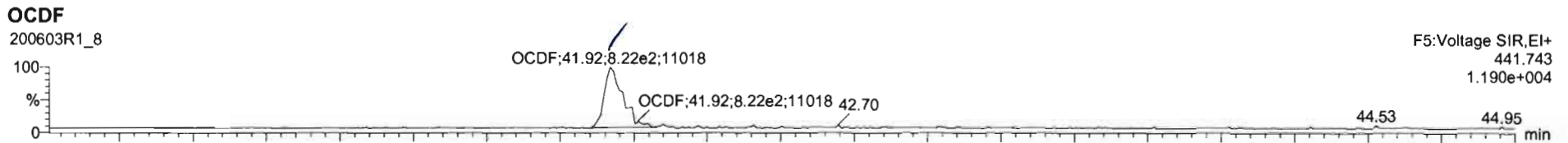
200603R1_8



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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_8, Date: 03-Jun-2020, Time: 13:32:34, ID: 2000965-04 PDI-150SC-A-03-04-200425 13.02, Description: PDI-150SC-A-03-04-200425



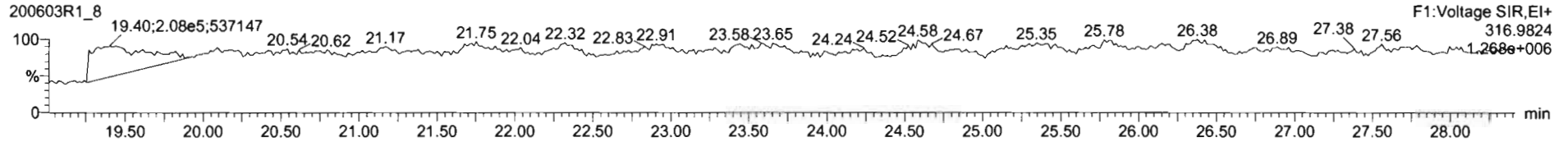
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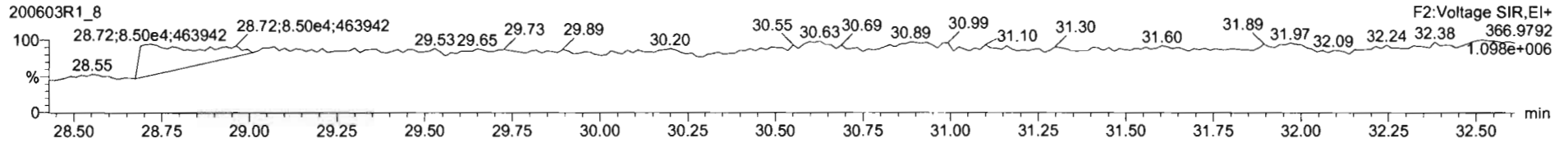
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Name: 200603R1_8, Date: 03-Jun-2020, Time: 13:32:34, ID: 2000965-04 PDI-150SC-A-03-04-200425 13.02, Description: PDI-150SC-A-03-04-200425

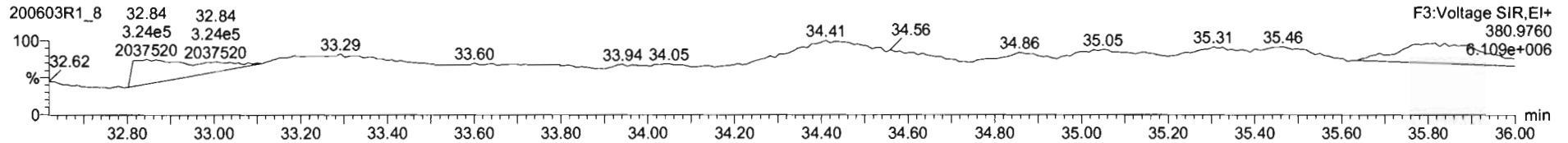
PFK1



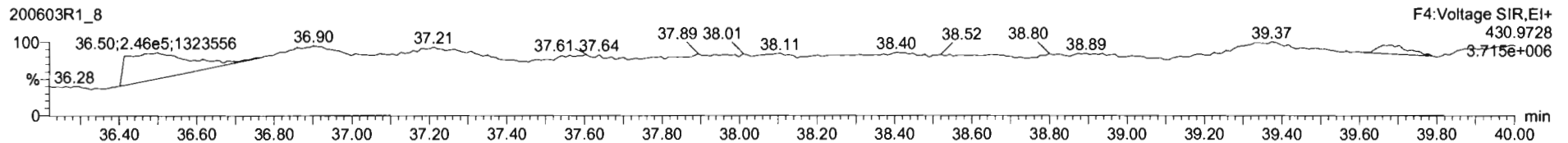
PFK2



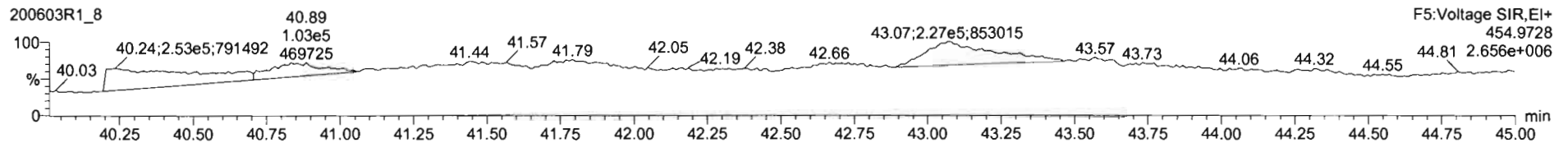
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200618R1\200618R1-13.qld

Last Altered: Friday, June 19, 2020 14:30:45 Pacific Daylight Time
Printed: Friday, June 19, 2020 14:32:07 Pacific Daylight Time

GRB 06/19/2020

C706/19/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200618R1_13, Date: 18-Jun-2020, Time: 22:21:39, ID: 2000965-05RE1 PDI-150SC-A-04-05-200425 11.27, Description: PDI-150SC-A-04-05-200425

#	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	0.888	10.029	26.501		1.001				0.0599	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.029	31.473		1.001				0.0899	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.029	34.835		1.000				0.132	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.029	34.932		1.000				0.124	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.029	35.230		1.000				0.160	
6	6 1,2,3,4,6,7,8-HpCDD	3.74e3	1.06	NO	0.864	10.029	38.767	38.77	1.000	1.000	2.8742		0.414	2.87
7	7 OCDD	4.00e4	0.88	NO	0.914	10.029	41.770	41.77	1.000	1.000	39.573		0.794	39.6
8	8 2,3,7,8-TCDF			NO	0.751	10.029	25.597		1.001				0.0546	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.029	30.175		1.001				0.0704	
10	10 2,3,4,7,8-PeCDF	6.09e2	1.31	YES	0.935	10.029	31.177	31.19	1.001	1.001	0.14769		0.0965	0.138
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.029	33.952		1.000				0.127	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.029	34.079		1.000				0.109	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.029	34.690		1.001				0.140	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.029	35.582		1.000				0.204	
15	15 1,2,3,4,6,7,8-HpCDF	1.77e3	0.99	NO	0.873	10.029	37.397	37.37	1.001	1.000	1.0870		0.194	1.09
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.029	39.320		1.000				0.230	
17	17 OCDF	9.82e2	1.02	NO	0.806	10.029	41.951	41.99	1.000	1.001	0.89067		0.164	0.891
18	18 13C-2,3,7,8-TCDD	8.79e5	0.76	NO	1.16	10.029	26.491	26.47	1.026	1.026	191.29	95.9	0.285	
19	19 13C-1,2,3,7,8-PeCDD	5.77e5	0.63	NO	0.849	10.029	31.674	31.45	1.227	1.219	171.19	85.8	0.494	
20	20 13C-1,2,3,4,7,8-HxCDD	3.67e5	1.27	NO	0.779	10.029	34.830	34.83	1.014	1.014	140.79	70.6	0.705	
21	21 13C-1,2,3,6,7,8-HxCDD	5.86e5	1.29	NO	1.02	10.029	34.944	34.93	1.017	1.017	172.23	86.4	0.540	
22	22 13C-1,2,3,7,8,9-HxCDD	4.97e5	1.28	NO	0.903	10.029	35.215	35.22	1.025	1.025	164.58	82.5	0.608	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.01e5	1.05	NO	0.689	10.029	38.739	38.76	1.128	1.128	130.48	65.4	0.881	
24	24 13C-OCDD	4.41e5	0.90	NO	0.652	10.029	41.761	41.77	1.216	1.216	202.10	50.7	0.806	
25	25 13C-2,3,7,8-TCDF	1.12e6	0.79	NO	1.06	10.029	25.534	25.57	0.989	0.991	168.52	84.5	0.301	
26	26 13C-1,2,3,7,8-PeCDF	9.15e5	1.55	NO	0.838	10.029	30.058	30.15	1.165	1.168	174.44	87.5	0.744	
27	27 13C-2,3,4,7,8-PeCDF	8.79e5	1.63	NO	0.817	10.029	31.011	31.15	1.202	1.207	171.93	86.2	0.763	
28	28 13C-1,2,3,4,7,8-HxCDF	5.09e5	0.50	NO	1.01	10.029	33.961	33.95	0.989	0.989	150.94	75.7	0.941	
29	29 13C-1,2,3,6,7,8-HxCDF	6.70e5	0.48	NO	1.17	10.029	34.085	34.07	0.992	0.992	171.68	86.1	0.813	
30	30 13C-2,3,4,6,7,8-HxCDF	5.28e5	0.53	NO	1.02	10.029	34.659	34.65	1.009	1.009	154.47	77.5	0.928	
31	31 13C-1,2,3,7,8,9-HxCDF	4.49e5	0.49	NO	0.860	10.029	35.558	35.58	1.035	1.036	156.14	78.3	1.10	

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-13.qld

Last Altered: Friday, June 19, 2020 14:30:45 Pacific Daylight Time

Printed: Friday, June 19, 2020 14:32:07 Pacific Daylight Time

Name: 200618R1_13, Date: 18-Jun-2020, Time: 22:21:39, ID: 2000965-05RE1 PDI-150SC-A-04-05-200425 11.27, Description: PDI-150SC-A-04-05-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.72e5	0.40	NO	0.774	10.029	37.307	37.36	1.086	1.088	143.74	72.1	0.829	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.29e5	0.37	YES	0.521	10.029	39.336	39.32	1.145	1.145	131.47	65.9	1.23	
34	34 13C-OCDF	5.45e5	0.90	NO	0.746	10.029	41.933	41.95	1.221	1.221	218.74	54.8	0.633	
35	35 37Cl-2,3,7,8-TCDD	3.39e5			1.04	10.029	26.522	26.48	1.028	1.026	82.349	103	0.107	
36	36 13C-1,2,3,4-TCDD	7.92e5	0.79	NO	1.00	10.029	25.890	25.81	1.000	1.000	199.42	100	0.329	
37	37 13C-1,2,3,4-TCDF	1.25e6	0.78	NO	1.00	10.029	24.360	24.12	1.000	1.000	199.42	100	0.319	
38	38 13C-1,2,3,4,6,9-HxCDF	6.67e5	0.47	NO	1.00	10.029	34.420	34.35	1.000	1.000	199.42	100	0.948	
39	39 Total Tetra-Dioxins				0.888	10.029	24.620		0.000		0.00000		0.0381	0.0729
40	40 Total Penta-Dioxins				0.908	10.029	29.960		0.000		0.10471		0.0442	0.105
41	41 Total Hexa-Dioxins				0.892	10.029	33.635		0.000		1.2093		0.143	1.21
42	42 Total Hepta-Dioxins				0.864	10.029	37.640		0.000		8.3132		0.414	8.31
43	43 Total Tetra-Furans				0.751	10.029	23.610		0.000		0.52395		0.0546	0.826
44	44 1st Func. Penta-Furans				0.893	10.029	27.580		0.000		1.3838		0.0216	1.38
45	45 Total Penta-Furans				0.893	10.029	29.275		0.000		0.73519		0.0701	0.935
46	46 Total Hexa-Furans				0.934	10.029	33.555		0.000		0.93148		0.135	1.55
47	47 Total Hepta-Furans				0.873	10.029	37.835		0.000		2.4385		0.222	2.44

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-13.qld

Last Altered: Friday, June 19, 2020 14:30:45 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200618R1_13, Date: 18-Jun-2020, Time: 22:21:39, ID: 2000965-05RE1 PDI-150SC-A-04-05-200425 11.27, Description: PDI-150SC-A-04-05-200425

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.28	3.714e3	2.961e3	1.764e2	1.612e2	1.09	YES	0.000e0	0.00000	0.072921	0.0381

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.21	2.141e3	2.783e3	1.053e2	1.700e2	0.62	NO	2.753e2	0.10471	0.10471	0.0442

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	1.857e4	1.231e4	8.945e2	7.024e2	1.27	NO	1.597e3	0.73884	0.73884	0.143
2	Total Hexa-Dioxins	34.15	7.310e3	8.238e3	5.485e2	4.682e2	1.17	NO	1.017e3	0.47042	0.47042	0.143

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.76	4.100e4	3.850e4	3.482e3	3.603e3	0.97	NO	7.086e3	5.4390	5.4390	0.414
2	1,2,3,4,6,7,8-HpCDD	38.77	2.519e4	2.132e4	1.931e3	1.814e3	1.06	NO	3.744e3	2.8742	2.8742	0.414

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.45	6.587e3	8.632e3	5.947e2	7.108e2	0.84	NO	1.305e3	0.31018	0.31018	0.0546
2	Total Tetra-Furans	22.47	2.387e3	4.019e3	2.159e2	3.902e2	0.55	YES	0.000e0	0.00000	0.11789	0.0546
3	Total Tetra-Furans	22.92	3.763e3	3.898e3	3.059e2	3.969e2	0.77	NO	7.028e2	0.16698	0.16698	0.0546
4	Total Tetra-Furans	24.00	4.425e3	3.267e3	1.647e2	1.473e2	1.12	YES	0.000e0	0.00000	0.061940	0.0546
5	Total Tetra-Furans	24.04	2.305e3	3.596e3	1.480e2	2.177e2	0.68	NO	0.000e0	0.00000	0.086890	0.0546
6	Total Tetra-Furans	24.67	9.670e2	1.995e3	8.469e1	1.122e2	0.75	NO	1.969e2	0.046789	0.046789	0.0546
7	Total Tetra-Furans	27.61	9.730e2	2.459e3	6.477e1	1.384e2	0.47	YES	0.000e0	0.00000	0.035374	0.0546

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-13.qld

Last Altered: Friday, June 19, 2020 14:30:45 Pacific Daylight Time

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Name: 200618R1_13, Date: 18-Jun-2020, Time: 22:21:39, ID: 2000965-05RE1 PDI-150SC-A-04-05-200425 11.27, Description: PDI-150SC-A-04-05-200425

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	27.59	4.946e4	2.712e4	3.477e3	2.080e3	1.67	NO	5.557e3	1.3838	1.3838	0.0216

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.18	1.324e4	1.024e4	1.246e3	8.644e2	1.44	NO	2.110e3	0.52544	0.52544	0.0701
2	Total Penta-Furans	29.79	7.350e3	4.868e3	5.185e2	3.238e2	1.60	NO	8.423e2	0.20975	0.20975	0.0701
3	Total Penta-Furans	30.44	3.399e3	2.944e3	1.516e2	1.551e2	0.98	YES	0.000e0	0.00000	0.062084	0.0701
4	2,3,4,7,8-PeCDF	31.19	1.050e4	4.570e3	3.455e2	2.632e2	1.31	YES	6.087e2	0.00000	0.13792	0.0665

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.77	6.843e3	5.528e3	3.358e2	2.459e2	1.37	NO	5.816e2	0.23045	0.23045	0.135
2	Total Hexa-Furans	32.95	1.285e4	1.737e4	8.608e2	8.528e2	1.01	YES	0.000e0	0.00000	0.61616	0.135
3	Total Hexa-Furans	33.49	1.849e4	1.608e4	9.936e2	7.757e2	1.28	NO	1.769e3	0.70103	0.70103	0.135

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	37.37	1.096e4	1.103e4	8.796e2	8.927e2	0.99	NO	1.772e3	1.0870	1.0870	0.194
2	Total Hepta-Furans	37.96	1.071e4	1.159e4	8.839e2	8.958e2	0.99	NO	1.780e3	1.3515	1.3515	0.222

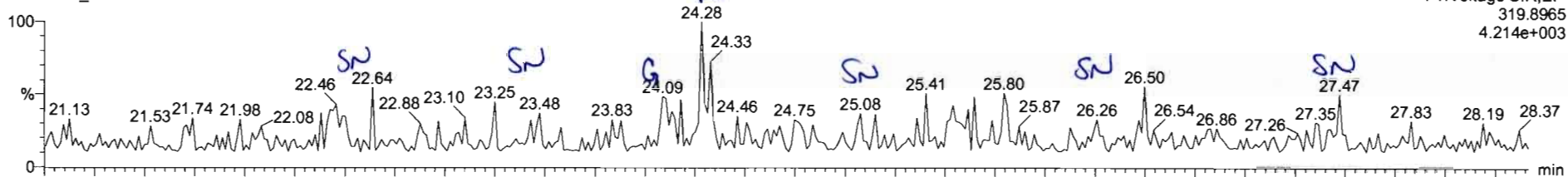
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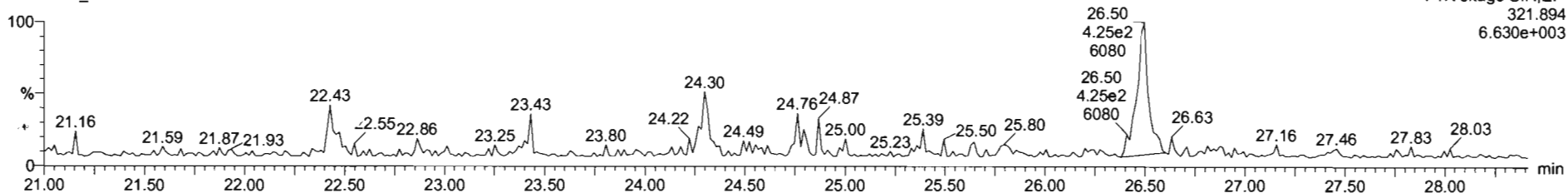
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2,3,7,8-TCDD

200618R1_13

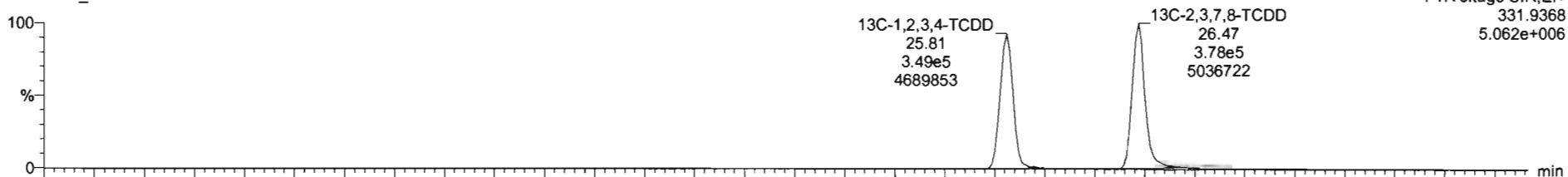


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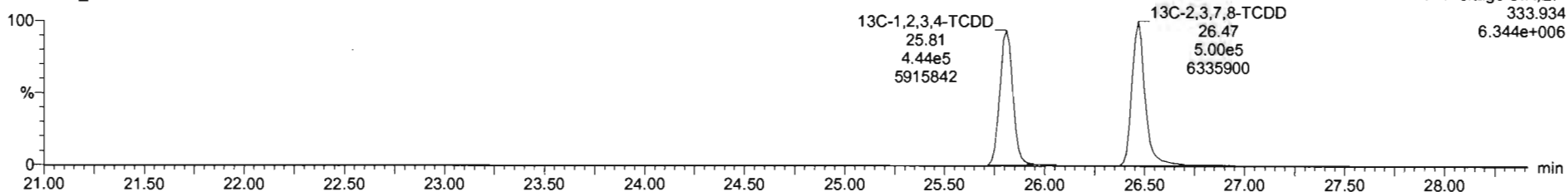


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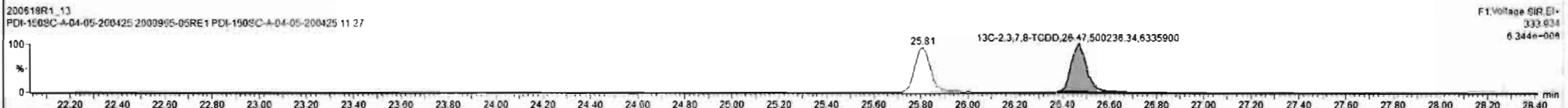
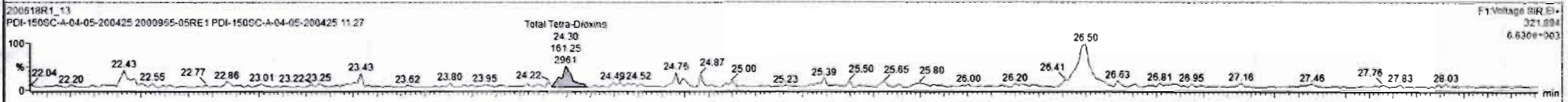
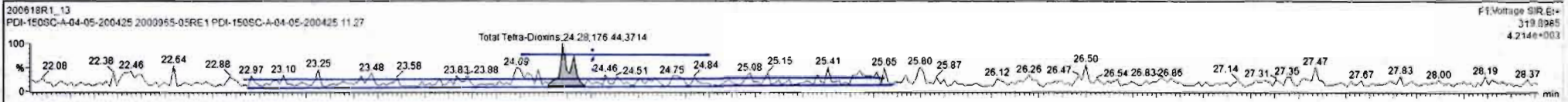


TargetLynx - 200618R1-13.qtd - (Chromatogram)

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200618R1_13 2000965-05RE1 PDI-150SC-A-04-05-200425 11:27 PDI-150SC-A-04-05-200425

#I	Name	Resp	RA	nly	RRF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	6.67e5	0.47	NO	1.0000	10.029	34.35	1.000	199	100	0.948	
39	Total Tetra-Dioxins				0.8883	10.029			0.000		0.0381	0.0729
40	Total Penta-Dioxins				0.9081	10.029					0.0442	
41	Total Hexa-Dioxins				0.8923	10.029			1.26		0.143	1.26
42	Total Hepta-Dioxins				0.8639	10.029			8.48		0.414	8.48
43	Total Tetra-Furans				0.7510	10.029			0.487		0.0548	0.487
44	1st Func. Penta-Furans				0.8925	10.029			1.38		0.0218	1.38
45	Total Penta-Furans				0.8925	10.029			0.933		0.0701	0.933
46	Total Hexa-Furans				0.9341	10.029			0.959		0.135	1.51
47	Total Hepta-Furans				0.8734	10.029			2.42		0.222	2.42
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



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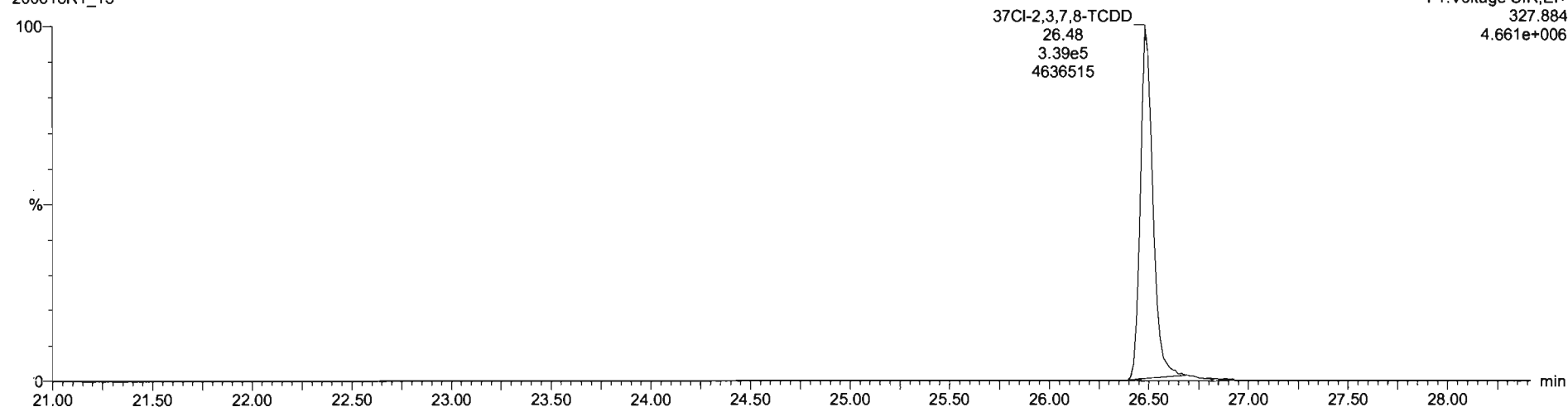
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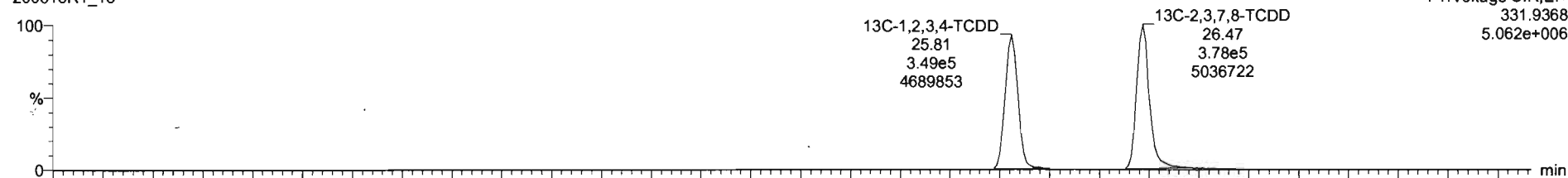
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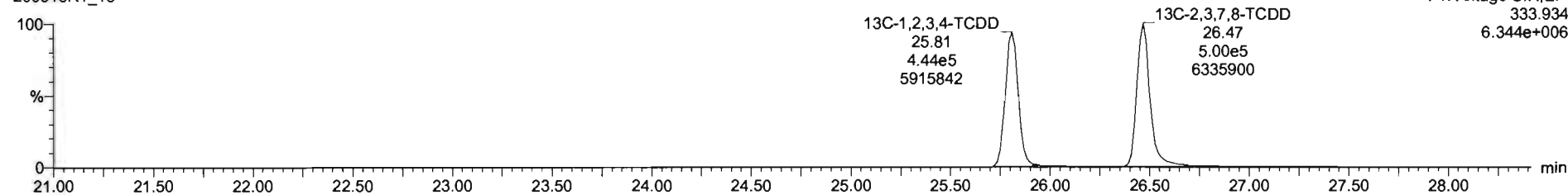


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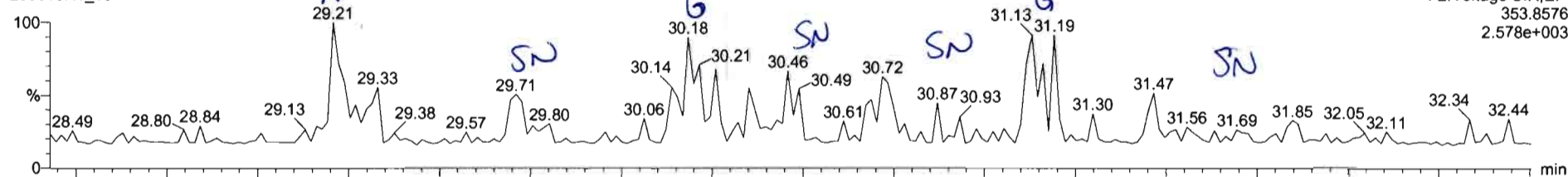
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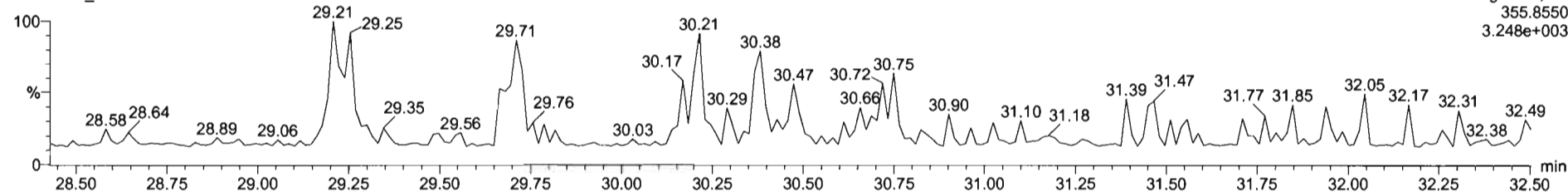
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1,2,3,7,8-PeCDD

200618R1_13

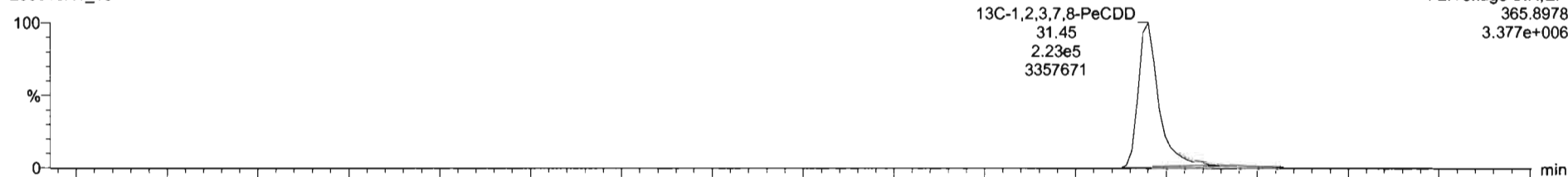


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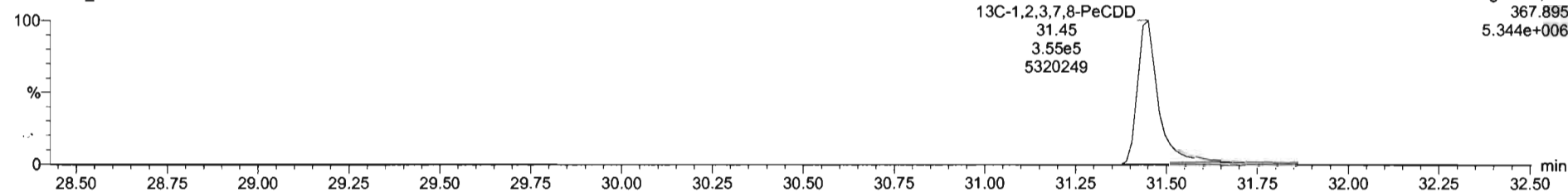


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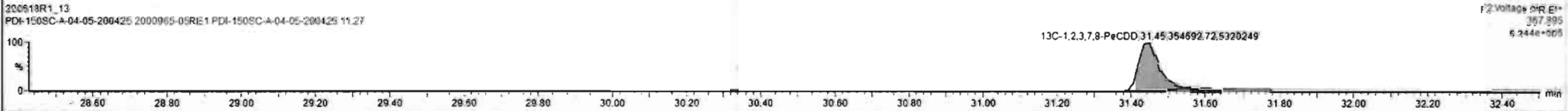
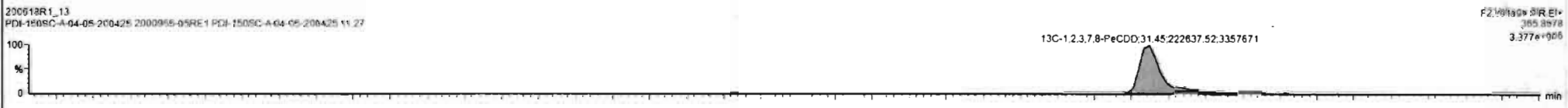
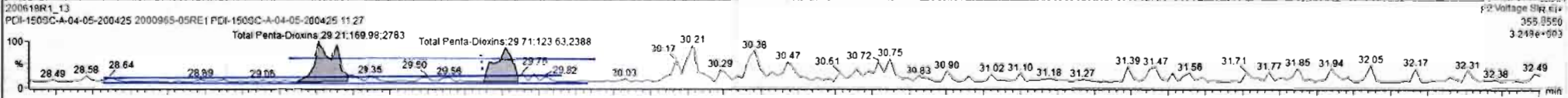
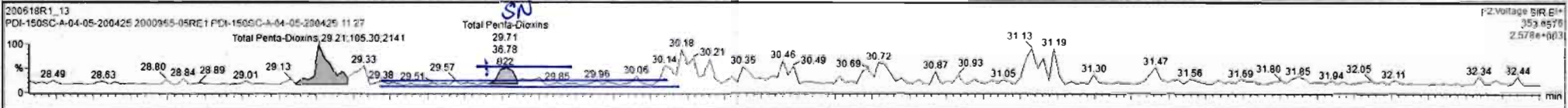


TargetLyn - 200618R1_13.qtd - [Chromatogram]

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200618R1_13 - 2000965-05RE1 PDI-150SC-A 04 05 200425 11 27 PDI-150SC-A 04 05 200425

Name	Resp	RA	n/y	RRF	w/w%	RT	RRT	Conc.	%Rec	DL	EMPC
36 13C-1,2,3,4,6,8-HxCDF	6.67e5	0.47	NO	1.0000	10.029	34.35	1.000	199	100	0.948	
39 Total Tetra-Dioxins				0.6883	10.029			0.000	0.0281	0.0729	
40 Total Penta-Dioxins				0.9081	10.029			0.105	0.3442	0.141	
41 Total Hexa-Dioxins				0.8923	10.029			1.26	0.143	1.26	
42 Total Hepta-Dioxins				0.8639	10.029			8.46	0.414	8.48	
43 Total Tetra-Furans				0.7510	10.029			0.487	0.0546	0.487	
44 1st Func. Penta-Furans				0.8925	10.029			1.26	0.0216	1.38	
45 Total Penta-Furans				0.8925	10.029			0.933	0.0701	0.933	
46 Total Hexa-Furans				0.9341	10.029			0.959	0.135	1.51	
47 Total Hepta-Furans				0.8734	10.029			2.42	0.222	2.42	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



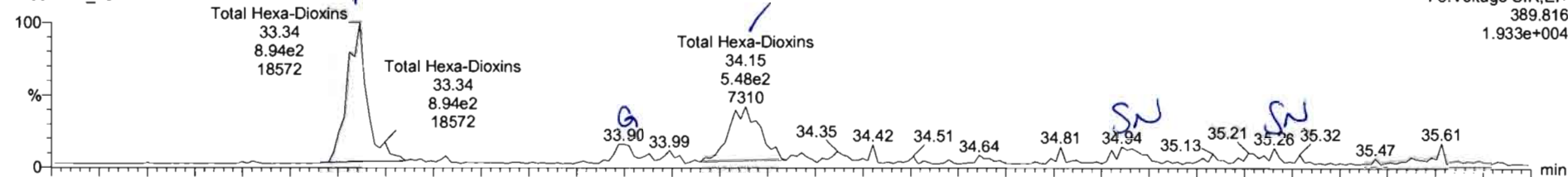
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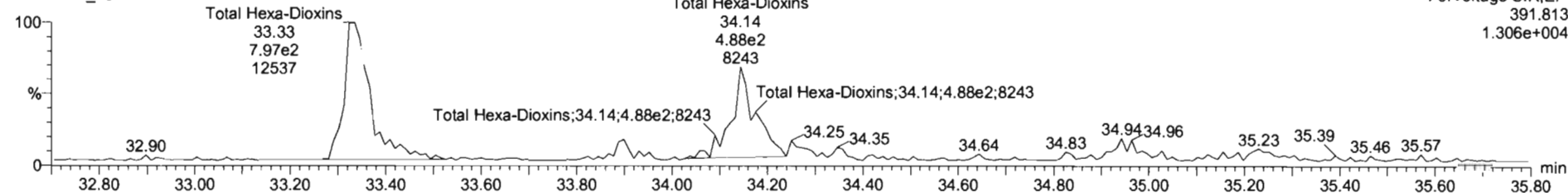
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1,2,3,4,7,8-HxCDD

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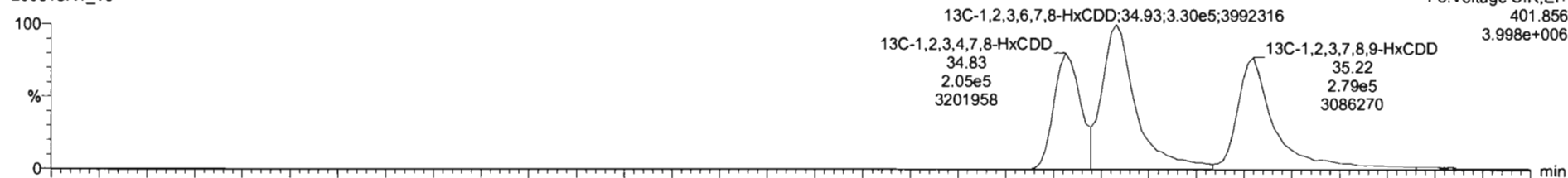


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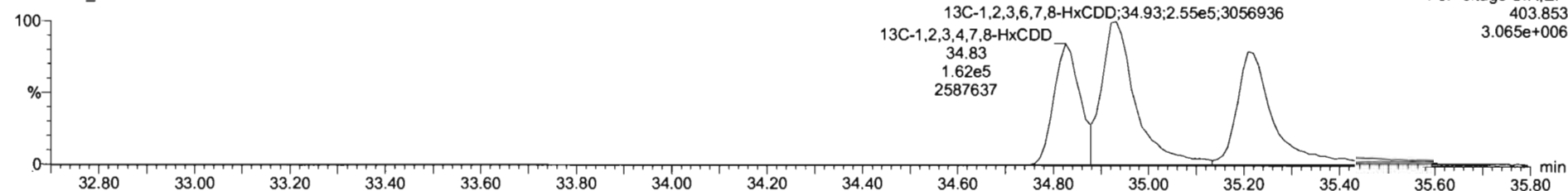


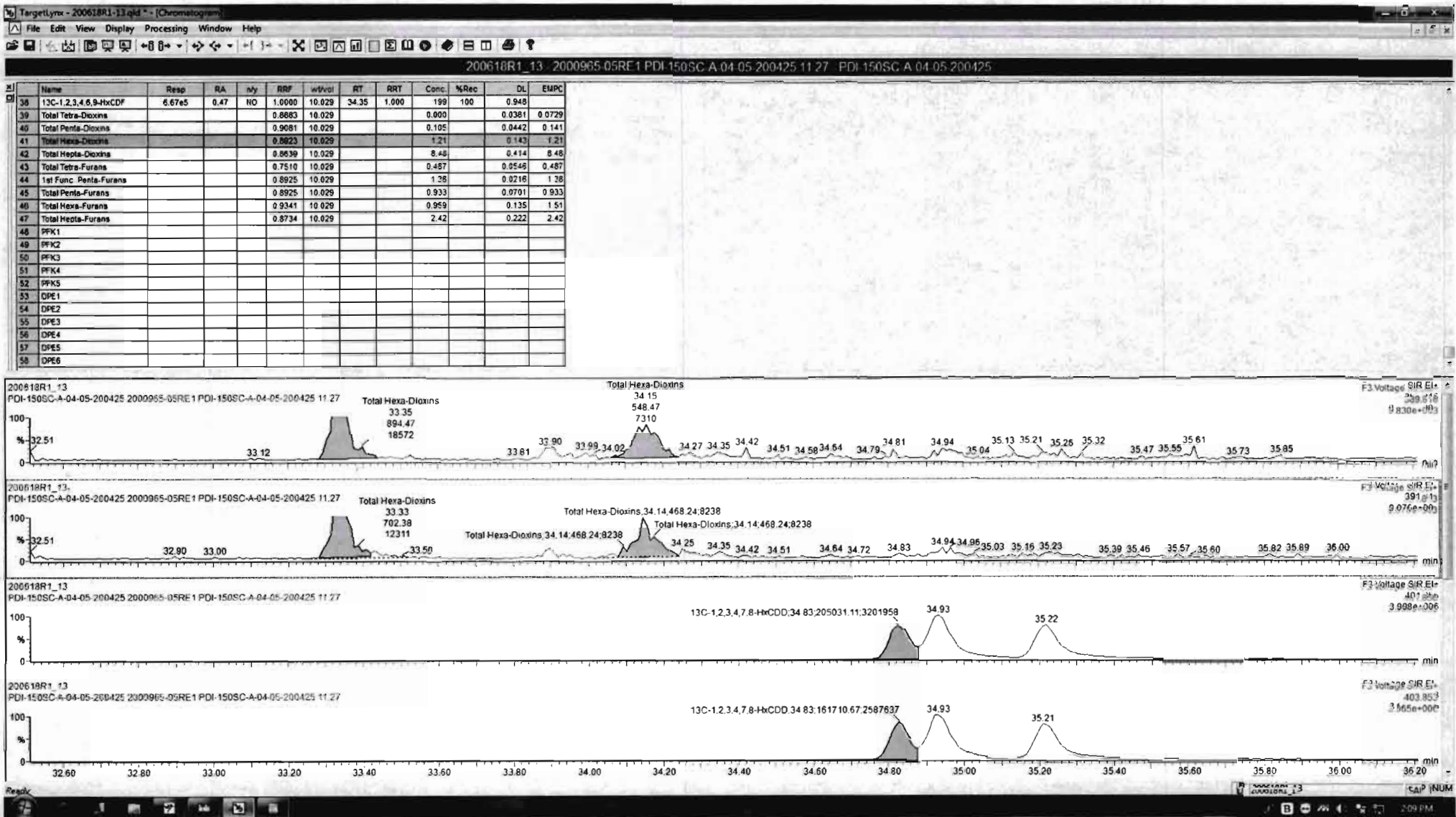
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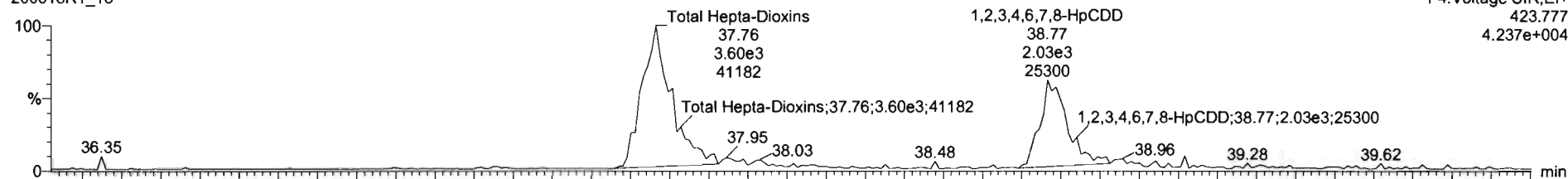
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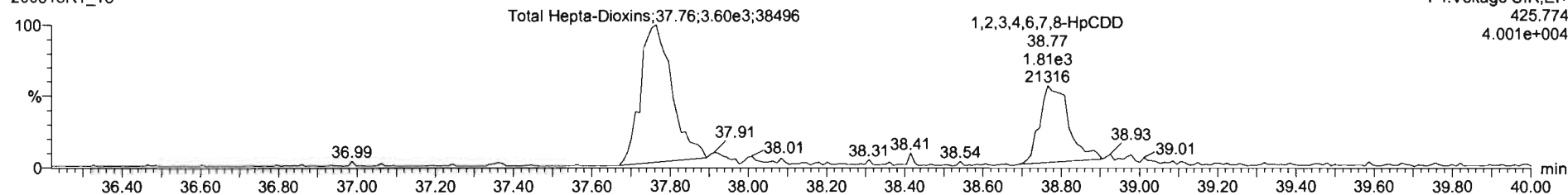
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1,2,3,4,6,7,8-HpCDD

200618R1_13

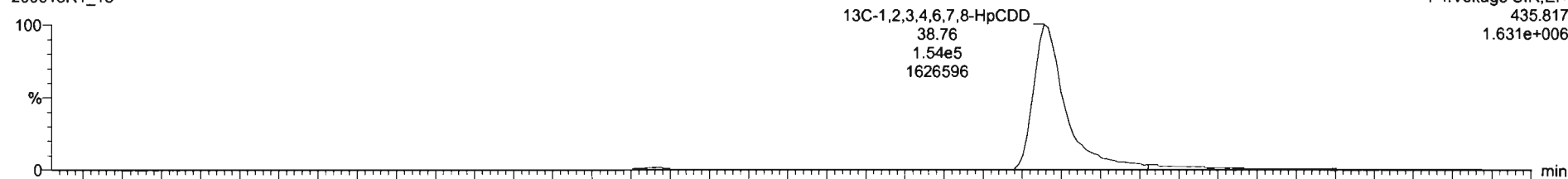


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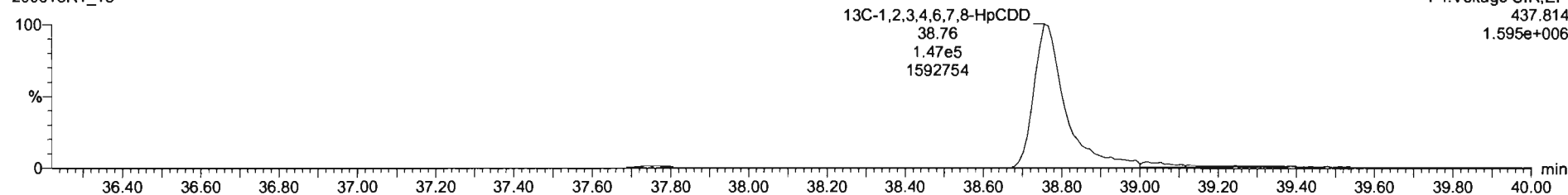


13C-1,2,3,4,6,7,8-HpCDD

200618R1_13



200618R1_13

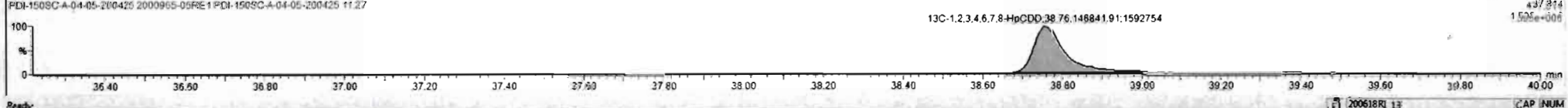
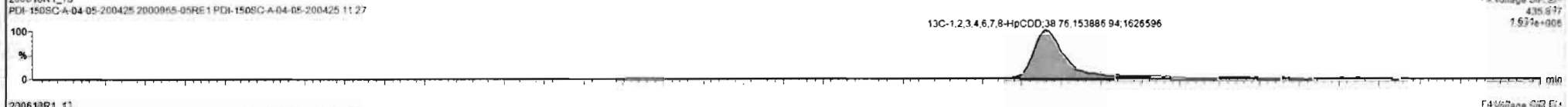
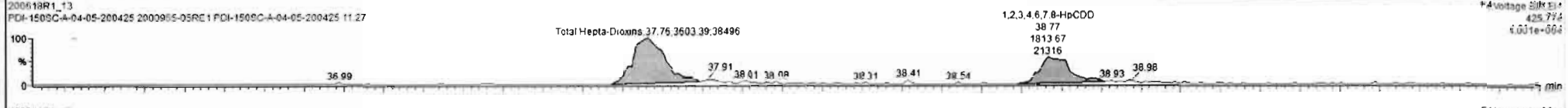
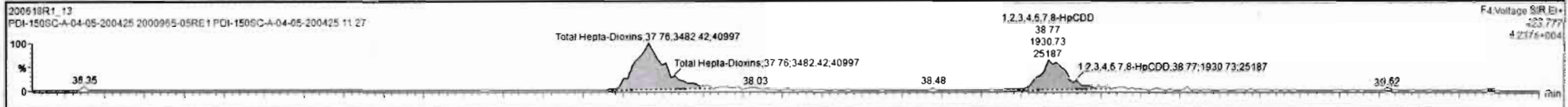


TargetLynx - 200618R1_13.qtd - [Chromatogram]

File Edit View Display Processing Window Help

200618R1_13 - 2000965.05RE1 PDI-150SC-A-04-05-200425 11.27 - PDI-150SC-A-04-05-200425

#	Name	Resp	RA	n/y	RRF	wt%	RT	RRT	Conc.	%Rec	DL	EUPC
38	13C-1,2,3,4,6,8-HxCDF	6.67e5	0.47	NO	1.0000	10.029	34.35	1.000	199	100	0.948	
39	Total Tetra-Dioxins				0.8883	10.029			0.000		0.0281	0.0729
40	Total Penta-Dioxins				0.9081	10.029			0.105		0.0442	0.141
41	Total Hexa-Dioxins				0.8923	10.029			1.21		0.143	1.21
42	Total Hepta-Dioxins				0.8839	10.029			8.31		0.414	8.31
43	Total Tetra-Furans				0.7510	10.029			0.487		0.0548	0.487
44	1st Func. Penta-Furans				0.8925	10.029			1.28		0.0218	1.28
45	Total Penta-Furans				0.8925	10.029			0.933		0.0701	0.933
46	Total Hexa-Furans				0.9341	10.029			0.959		0.135	1.51
47	Total Hepta-Furans				0.8734	10.029			2.42		0.222	2.42
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



Dataset: Untitled

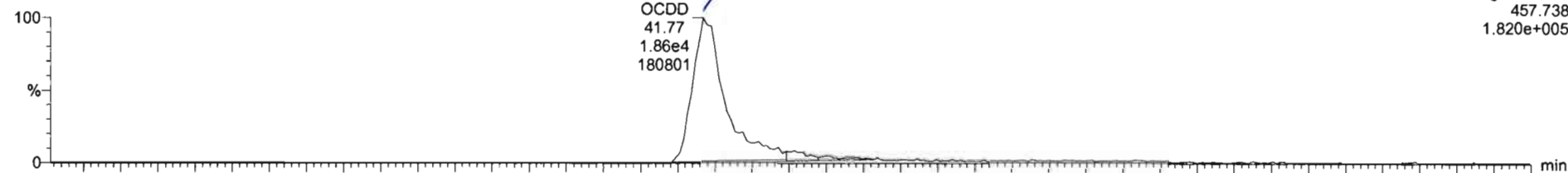
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

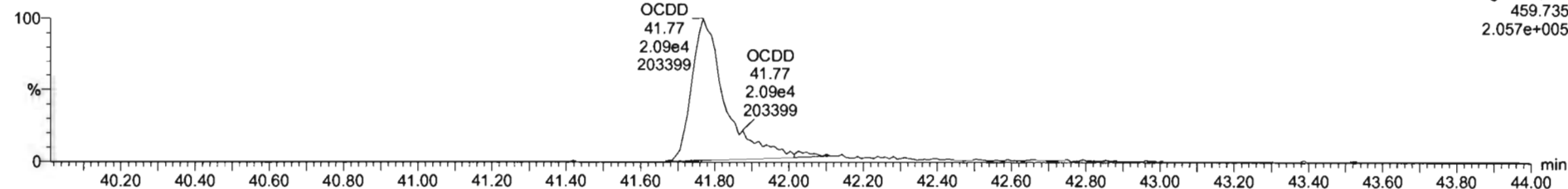
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OCDD

200618R1_13

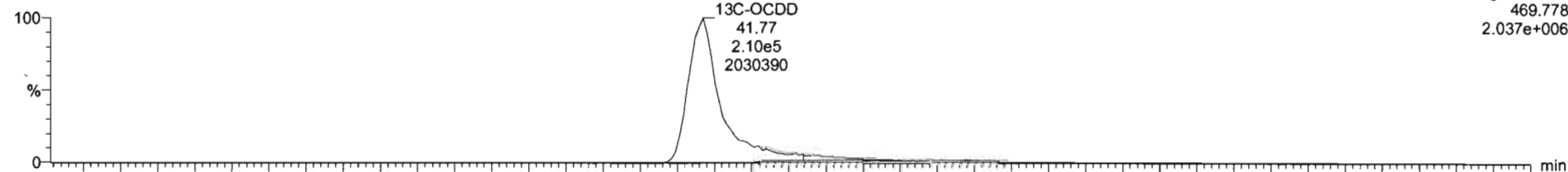


200618R1_13

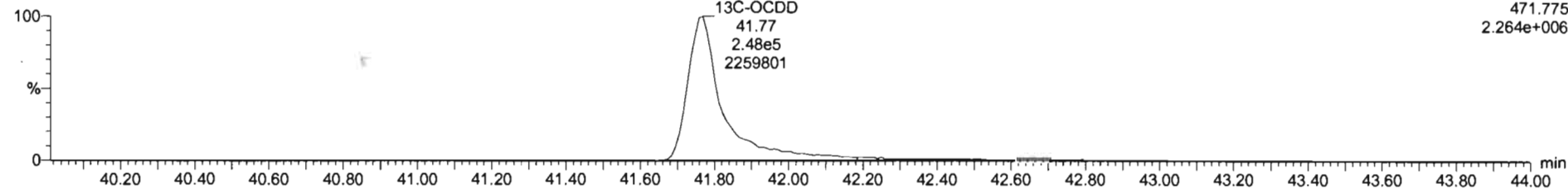


13C-OCDD

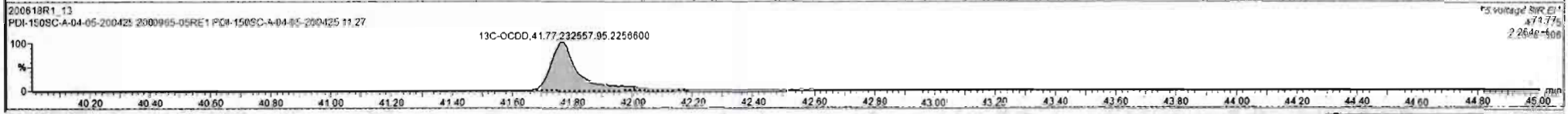
200618R1_13



200618R1_13



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	0.8883	10.029					0.9599	
2 1,2,3,7,8-PeCDD			NO	0.9081	10.029					0.8999	
3 1,2,3,4,7,8-HxCDD			NO	1.0334	10.029					0.132	
4 1,2,3,6,7,8-HxCDD			NO	0.8923	10.029					0.124	
5 1,2,3,7,8,9-HxCDD			NO	0.8869	10.029					0.150	
6 1,2,3,4,6,7,8-HpCDD	3.84e3	1.12	NO	0.8639	10.029	38.77	1.000	2.95		0.414	2.95
7 OCDD	4.00e4	0.88	NO	0.9138	10.029	41.77	1.000	39.6		0.794	39.6
8 2,3,7,8-TCDF			NO	0.7510	10.029					0.0546	
9 1,2,3,7,8-PeCDF			NO	0.8925	10.029					0.0704	
10 2,3,4,7,8-PeCDF	8.13e2	1.45	NO	0.9348	10.029	31.19	1.001	0.197		0.0665	0.197
11 1,2,3,4,7,8-HxCDF			NO	0.8845	10.029					0.127	
12 1,2,3,6,7,8-HxCDF			NO	0.8892	10.029					0.109	
13 2,3,4,6,7,8-HxCDF			NO	0.9341	10.029					0.140	
14 1,2,3,7,8,9-HxCDF			NO	0.8707	10.029					0.204	
15 1,2,3,4,6,7,8-HpCDF	1.76e3	1.08	NO	0.8734	10.029	37.37	1.000	1.06		0.194	1.06
16 1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.029					0.230	
17 OCDF	6.04e2	0.51	YES	0.8065	10.029	41.95	1.000	0.548		0.164	0.392
18 13C-2,3,7,8-TCDD	8.79e5	0.76	NO	1.1563	10.029	26.47	1.026	191	95.9	0.285	
19 13C-1,2,3,7,8-PeCDD	5.77e5	0.63	NO	0.8490	10.029	31.45	1.219	171	65.8	0.494	
20 13C-1,2,3,4,7,8-HxCDD	3.67e5	1.27	NO	0.7790	10.029	34.83	1.014	141	70.6	0.705	
21 13C-1,2,3,6,7,8-HxCDD	5.86e5	1.29	NO	1.0167	10.029	34.93	1.017	172	66.4	0.540	



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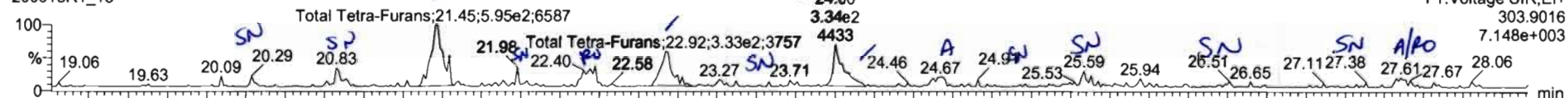
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

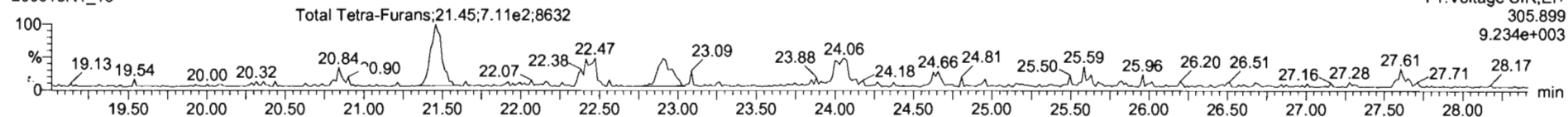
Name: 200618R1_13, Date: 18-Jun-2020, Time: 22:21:39, ID: 2000965-05RE1 PDI-150SC-A-04-05-200425 11.27, Description: PDI-150SC-A-04-05-200425

2,3,7,8-TCDF

200618R1_13

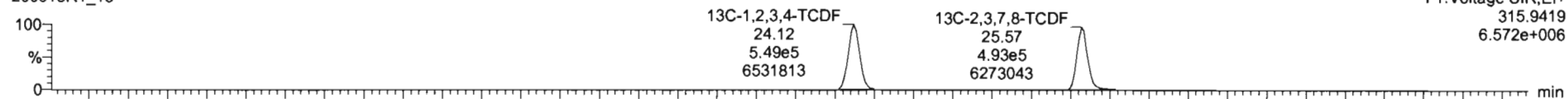


200618R1_13

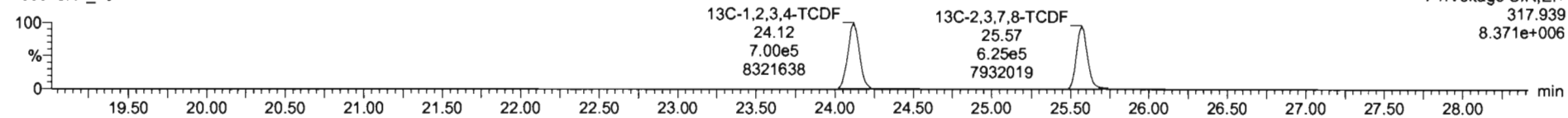


13C-2,3,7,8-TCDF

200618R1_13

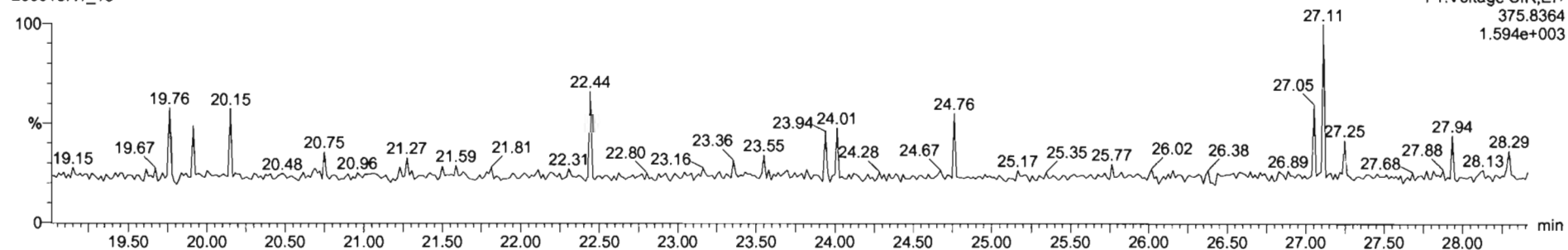


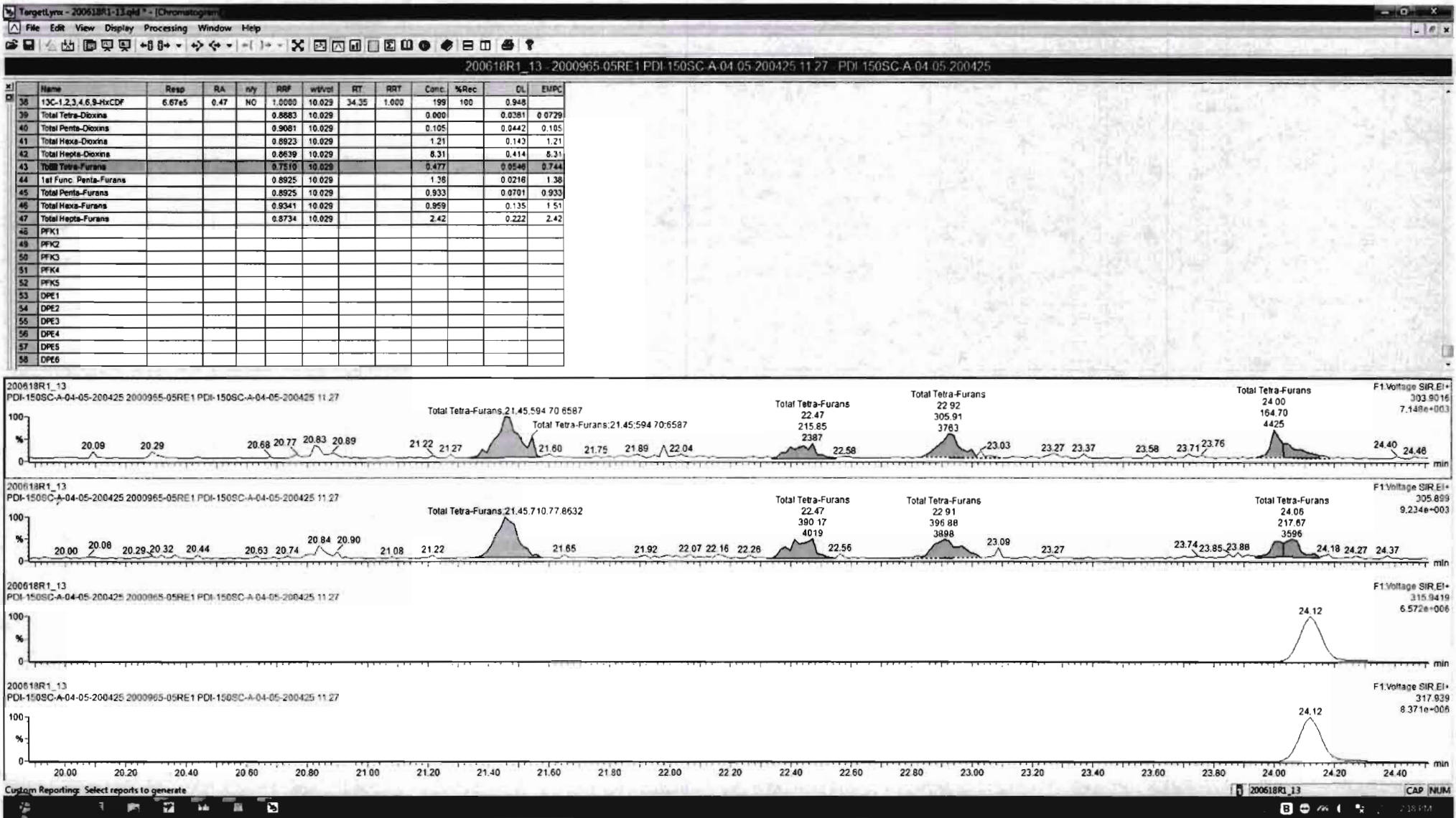
200618R1_13



DPE1

200618R1_13



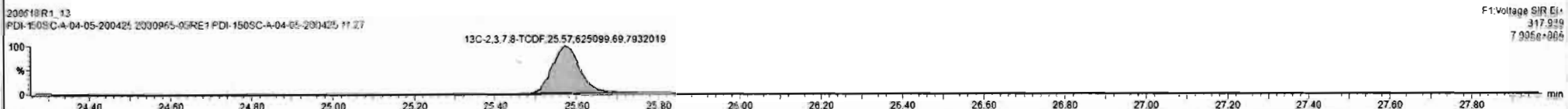
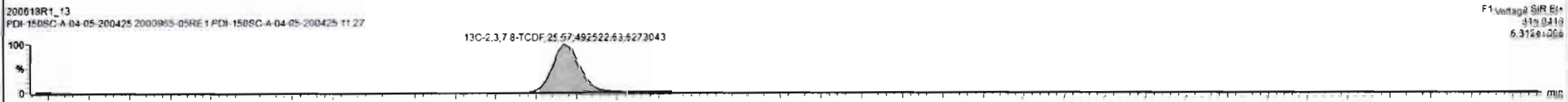
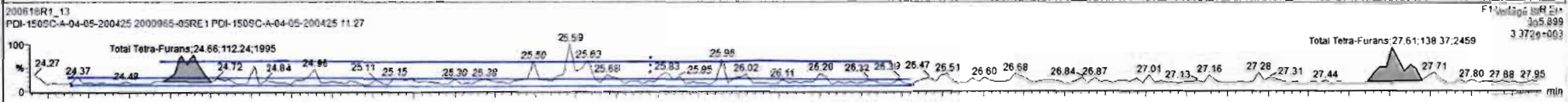
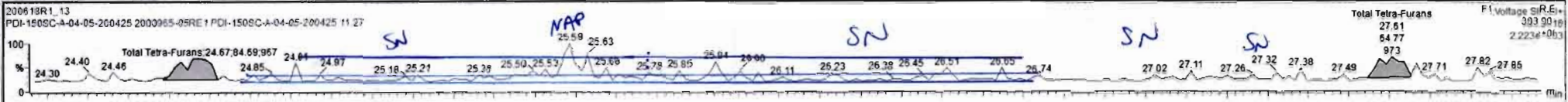


TargetLynx - 200618R1_13.qld - [Chromatogram]

File Edit View Display Processing Window Help

200618R1_13 - 2000965-05RE1 PDI-150SC-A-04-05-200425 11:27 PDI-150SC-A-04-05-200425

Name	Resp	RA	ny	RRF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	6.67e5	0.47	NO	1.0000	10.029	34.35	1.000	199	100	0.948
39	Total Tetra-Dioxins				0.6883	10.029		0.000		0.0381	0.0729
40	Total Penta-Dioxins				0.9081	10.029		0.105		0.0442	0.105
41	Total Hexa-Dioxins				0.8923	10.029		1.21		0.143	1.21
42	Total Hepta-Dioxins				0.8939	10.029		8.31		0.414	8.31
43	Total Tetra-Furans				0.7510	10.029		0.524		0.9546	8.820
44	1st Func. Penta-Furans				0.8925	10.029		1.38		0.0218	1.38
45	Total Penta-Furans				0.8925	10.029		0.933		0.3701	0.933
46	Total Hexa-Furans				0.9341	10.029		0.959		0.135	1.51
47	Total Hepta-Furans				0.8734	10.029		2.42		0.222	2.42
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



Dataset: Untitled

Last Altered: Friday, June 19, 2020 07:32:51 Pacific Daylight Time
Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

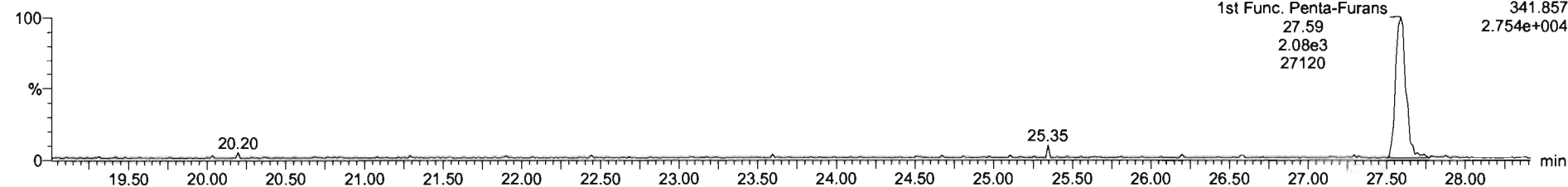
Name: 200618R1_13, Date: 18-Jun-2020, Time: 22:21:39, ID: 2000965-05RE1 PDI-150SC-A-04-05-200425 11.27, Description: PDI-150SC-A-04-05-200425

1st Func. Penta-Furans

200618R1_13

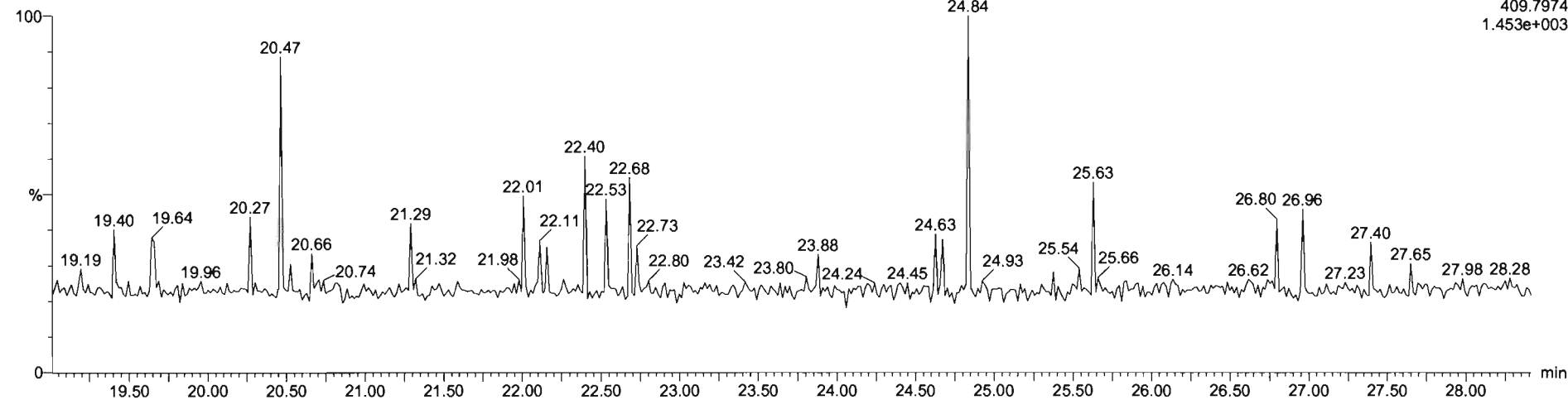


200618R1_13



DPE6

200618R1_13



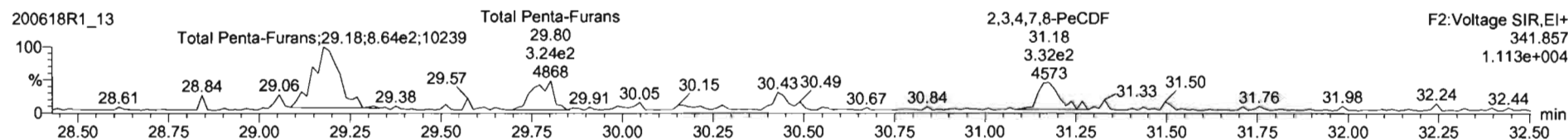
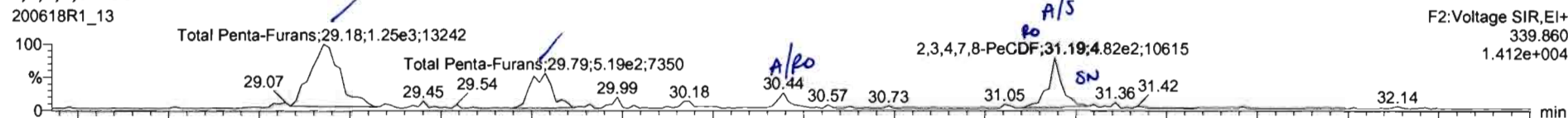
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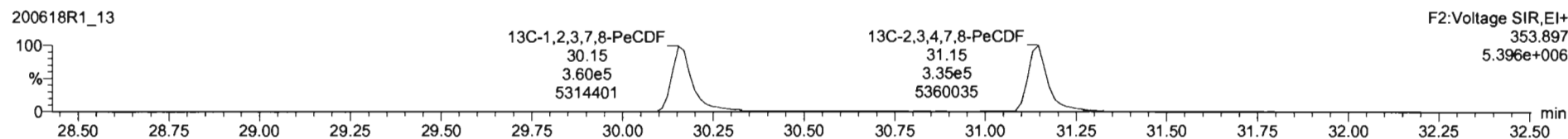
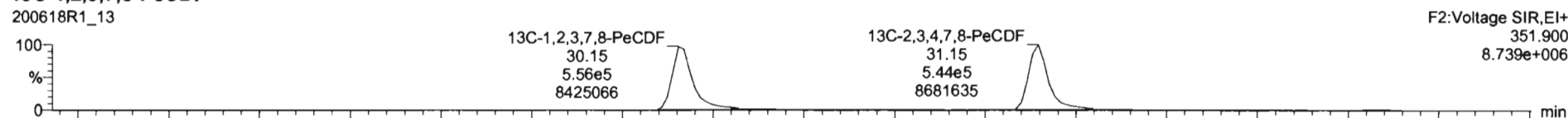
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Name: 200618R1_13, Date: 18-Jun-2020, Time: 22:21:39, ID: 2000965-05RE1 PDI-150SC-A-04-05-200425 11.27, Description: PDI-150SC-A-04-05-200425

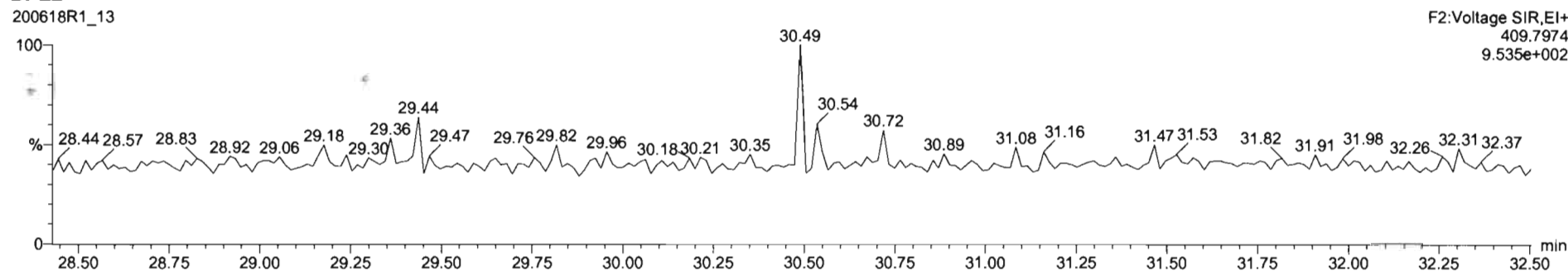
1,2,3,7,8-PeCDF

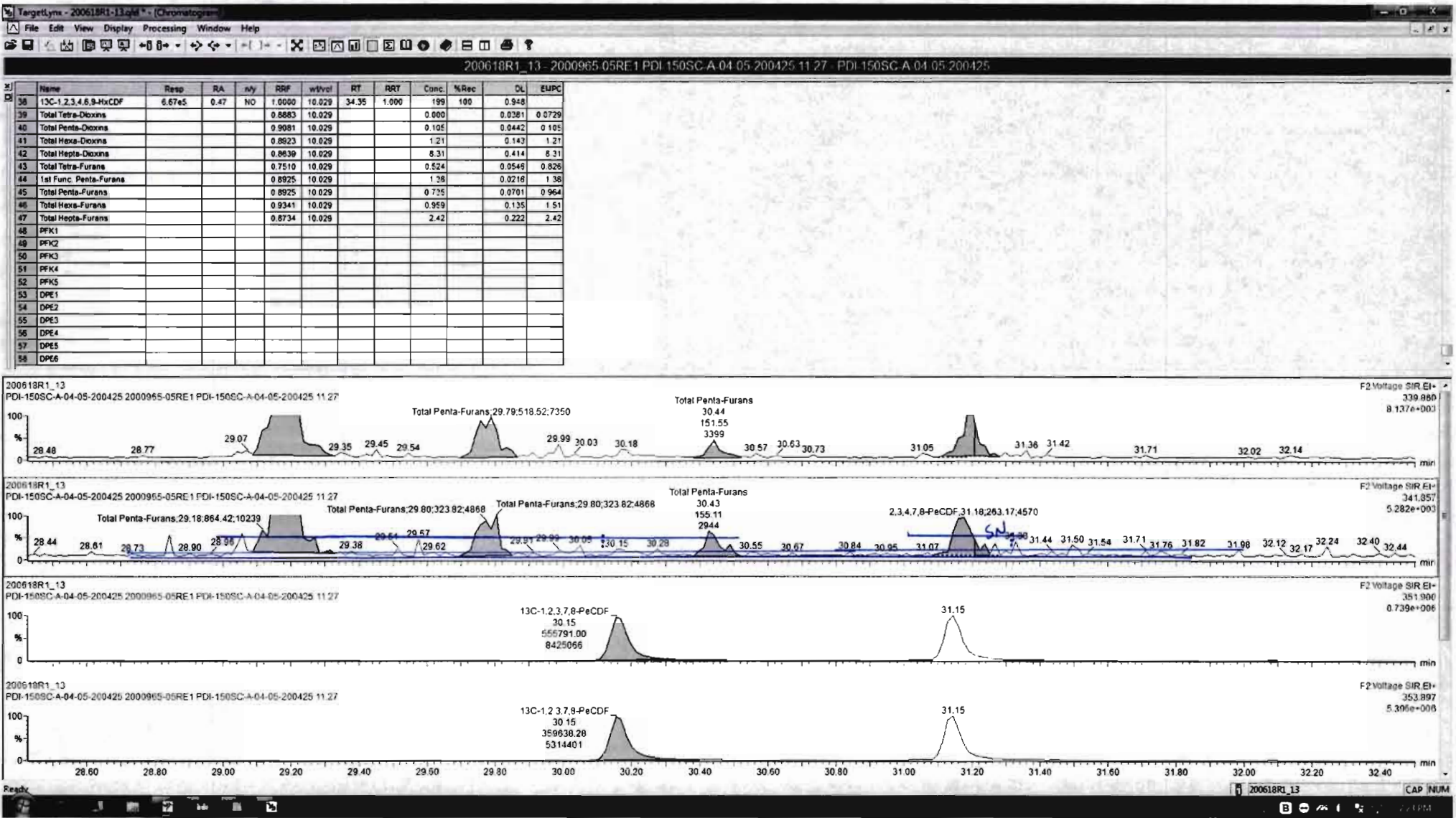


13C-1,2,3,7,8-PeCDF



DPE2



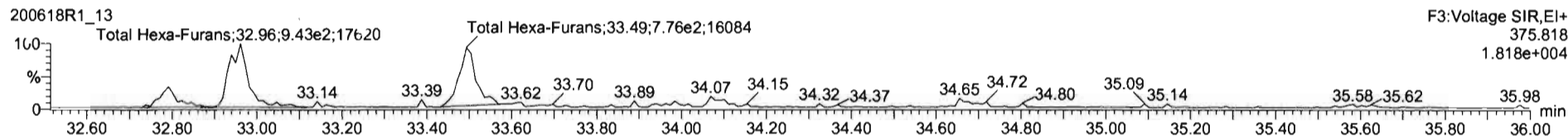
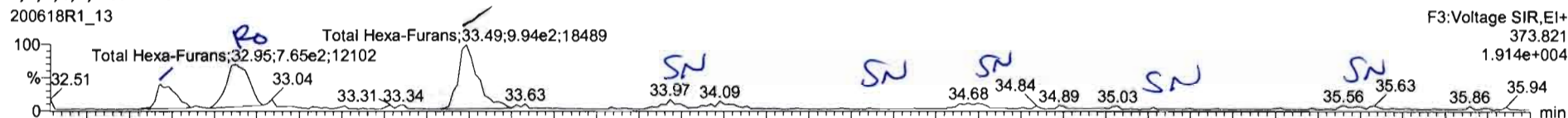


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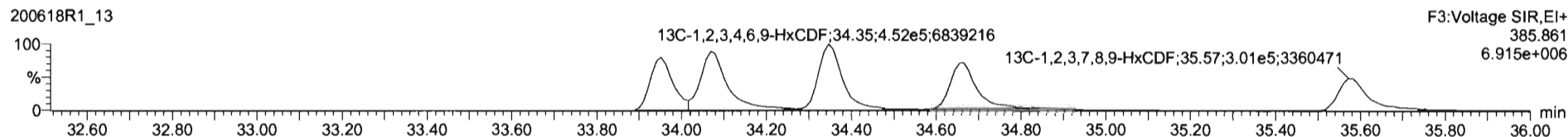
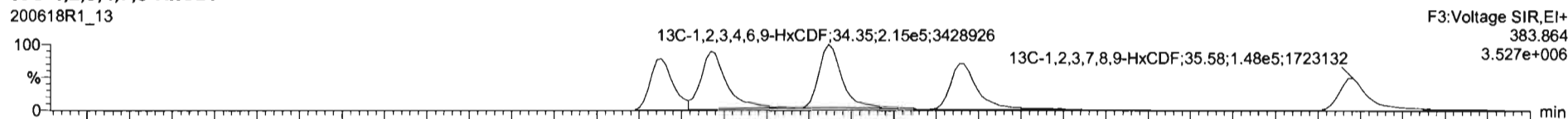
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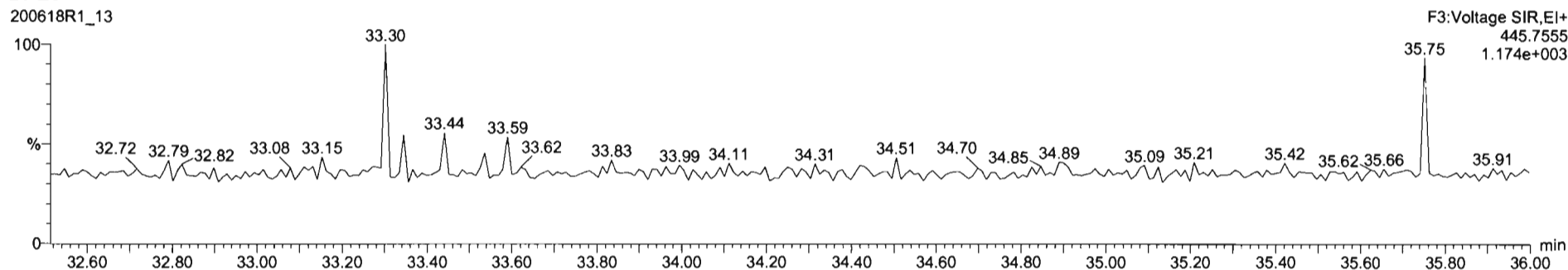
1,2,3,4,7,8-HxCDF



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



DPE3

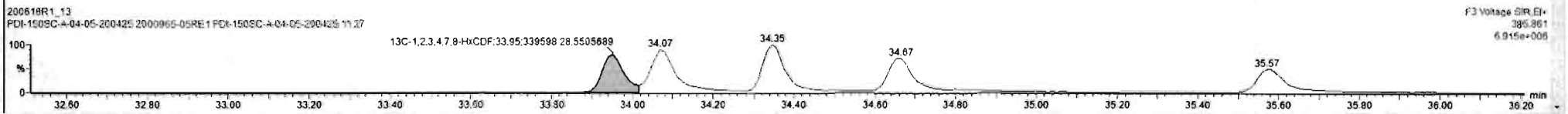
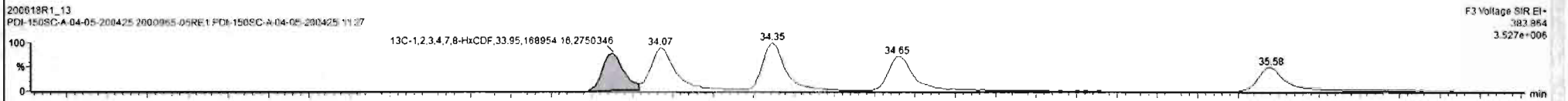
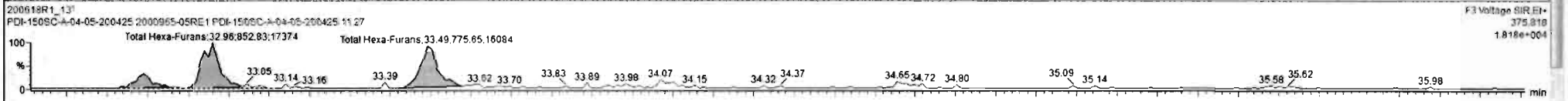
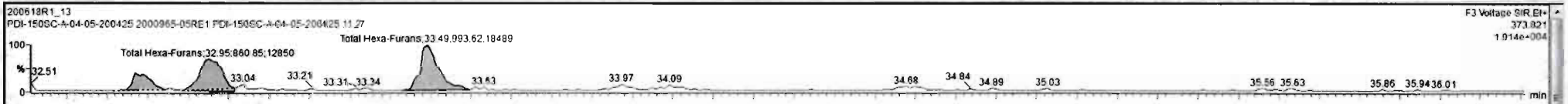


TargetLynx - 200618R1_13.d [Chromatogram]

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200618R1_13 - 2000965-05RE1 PDI-150SC-A 04-05-200425 11:27 - PDI-150SC-A 04-05-200425

SL	Name	Resp	RA	nly	RRF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	6.67e5	0.47	NO	1.0000	10.029	34.35	1.000	199	100	0.948	
39	Total Tetra-Dioxins				0.8883	10.029			0.009		0.0381	0.0729
40	Total Penta-Dioxins				0.9081	10.029			0.105		0.0442	0.105
41	Total Hexa-Dioxins				0.8923	10.029			1.21		0.143	1.21
42	Total Hepta-Dioxins				0.8639	10.029			8.31		0.414	8.31
43	Total Tetra-Furans				0.7510	10.029			0.524		0.0548	0.826
44	1st Func. Penta-Furans				0.8925	10.029			1.38		0.0216	1.38
45	Total Penta-Furans				0.8925	10.029			0.735		0.0701	0.964
46	Total Hexa-Furans				0.9341	10.029			0.931		0.135	1.55
47	Total Hepta-Furans				0.8734	10.029			2.42		0.222	2.42
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PKS											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



Custom Reporting: Select reports to generate

200618R1_13 CAP NUM

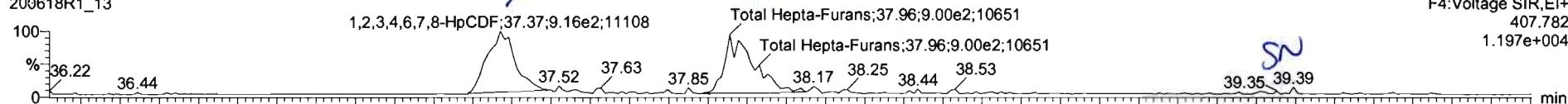
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

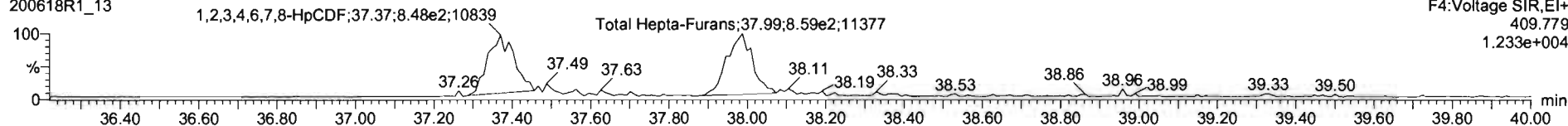
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1,2,3,4,6,7,8-HpCDF

200618R1_13

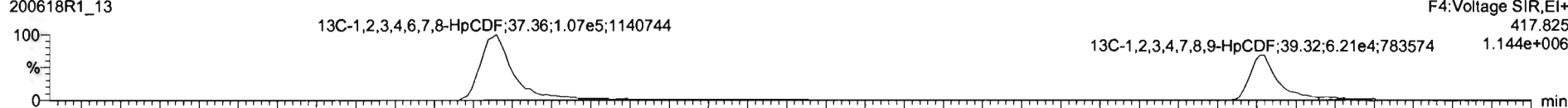


200618R1_13

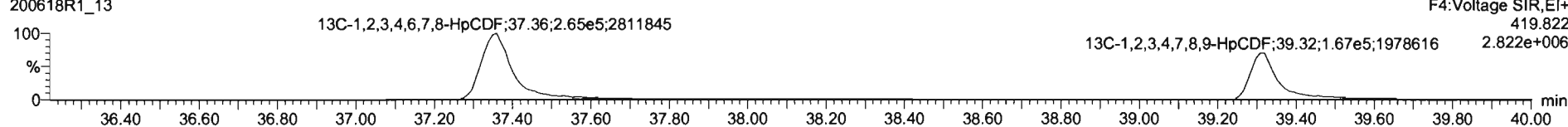


13C-1,2,3,4,6,7,8-HpCDF

200618R1_13

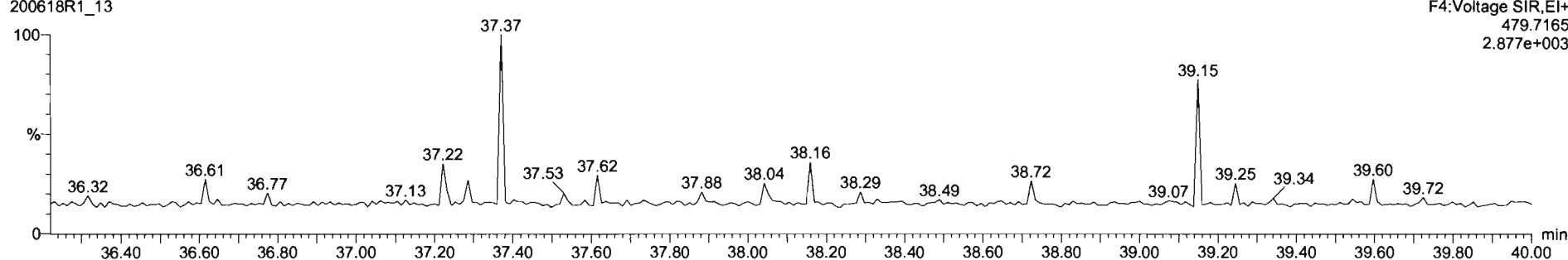


200618R1_13



DPE4

200618R1_13

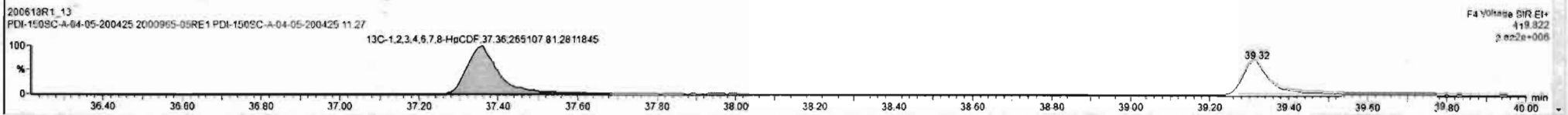
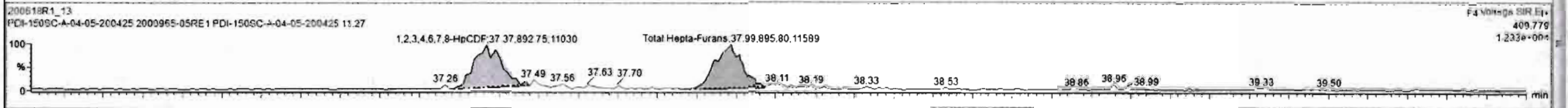
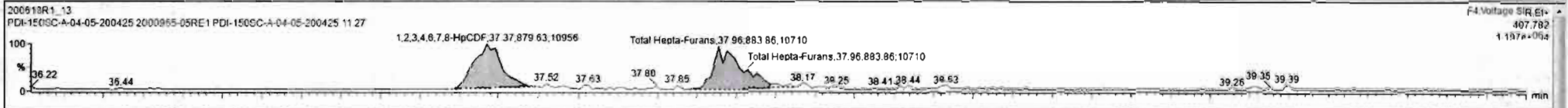


TargetLynx - 200618R1_13.qtd - (Chromatogram)

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200618R1_13_2000965-05RE1 PDI-150SC-A-04-05-200425 11.27 PDI-150SC-A-04-05-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EUPC
38	13C-1,2,3,4,6,8-HxCDF	6.67e5	0.47	NO	1.0000	10.029	34.35	1.000	199	100	0.948	
39	Total Tetra-Dioxins				0.8883	10.029			0.000	0.0381	0.0729	
40	Total Penta-Dioxins				0.9081	10.029			0.105	0.9442	0.105	
41	Total Hexa-Dioxins				0.8923	10.029			1.21	0.143	1.21	
42	Total Hepta-Dioxins				0.8639	10.029			8.31	0.414	8.31	
43	Total Tetra-Furans				0.7510	10.029			0.524	0.0548	0.628	
44	1st Func. Penta-Furans				0.8925	10.029			1.38	0.0218	1.38	
45	Total Penta-Furans				0.8925	10.029			0.735	0.0701	0.964	
46	Total Hexa-Furans				0.9341	10.029			0.931	0.135	1.55	
47	Total Hepta-Furans				0.8734	10.029			2.44	0.222	2.44	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											

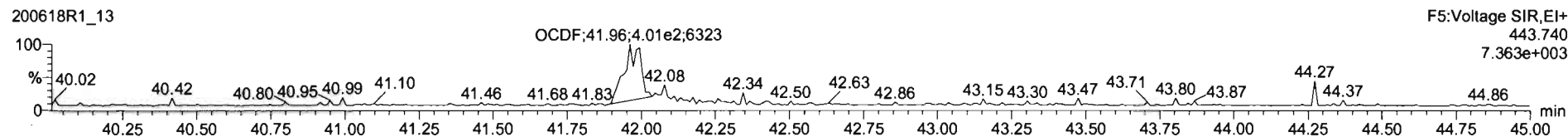
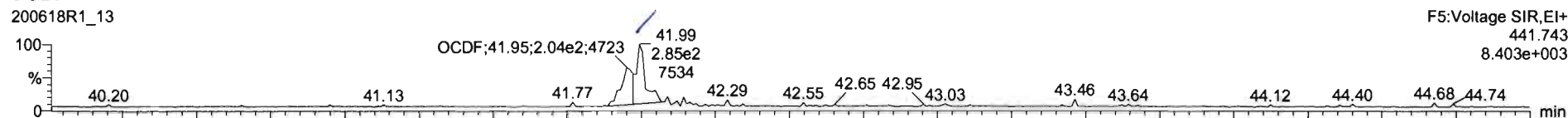


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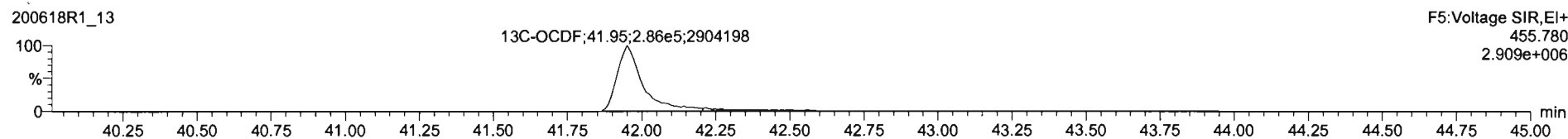
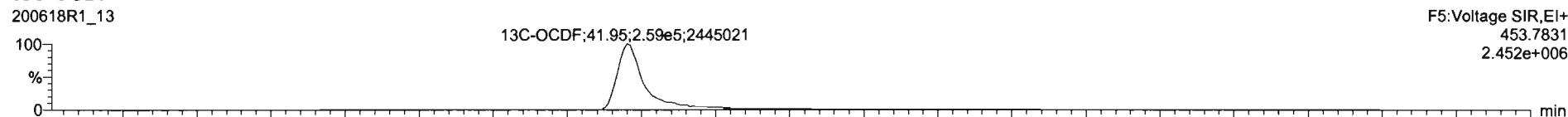
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Name: 200618R1_13, Date: 18-Jun-2020, Time: 22:21:39, ID: 2000965-05RE1 PDI-150SC-A-04-05-200425 11.27, Description: PDI-150SC-A-04-05-200425

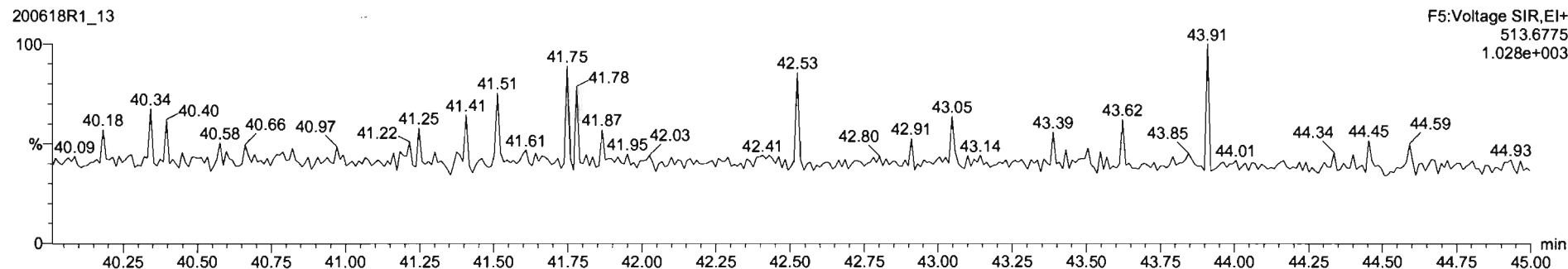
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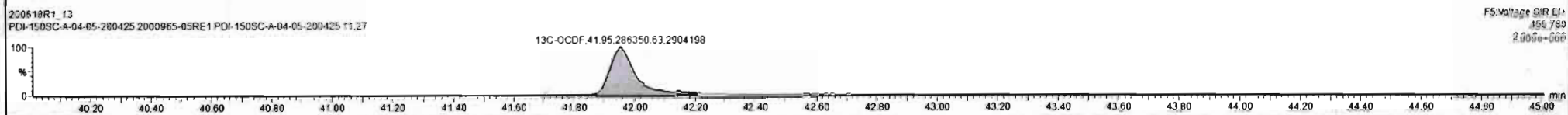
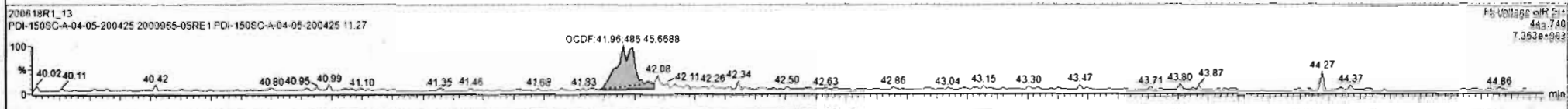
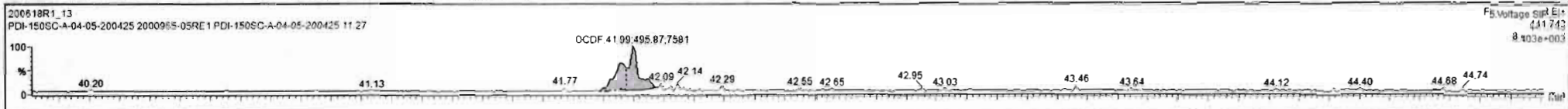
13C-OCDF



DPE5



Name	Resp	RA	dy	RRF	wt(wt)	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.8803	10.029				0.0599	
2	1,2,3,7,8-PeCDD			NO	0.9081	10.029				0.0899	
3	1,2,3,4,7,8-HxCDD			NO	1.0334	10.029				0.132	
4	1,2,3,6,7,8-HxCDD			NO	0.8923	10.029				0.124	
5	1,2,3,7,8,9-HxCDD			NO	0.8869	10.029				0.160	
6	1,2,3,4,6,7,8-HpCDD	3.84e3	1.12	NO	0.8639	10.029	38.77	1.000	2.95	0.414	2.95
7	OCDD	4.00e4	0.88	NO	0.9136	10.029	41.77	1.000	39.8	0.794	39.8
8	2,3,7,8-TCDF			NO	0.7510	10.029				0.0546	
9	1,2,3,7,8-PeCDF			NO	0.8925	10.029				0.0704	
10	2,3,4,7,8-PeCDF	8.13e2	1.45	NO	0.9348	10.029	31.19	1.001	0.197	0.0665	0.197
11	1,2,3,4,7,8-HxCDF			NO	0.8845	10.029				0.127	
12	1,2,3,6,7,8-HxCDF			NO	0.8892	10.029				0.109	
13	2,3,4,6,7,8-HxCDF			NO	0.9341	10.029				0.140	
14	1,2,3,7,8,9-HxCDF			NO	0.8707	10.029				0.204	
15	1,2,3,4,6,7,8-HpCDF	1.76e3	1.06	NO	0.8734	10.029	37.37	1.000	1.08	0.194	1.08
16	1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.029				0.230	
17	OCDF	9.52e2	1.62	NO	0.9265	10.029	41.99	1.001	0.691	0.164	0.691
18	13C-2,3,7,8-TCDD	8.79e5	0.76	NO	1.1563	10.029	26.47	1.026	191	96.9	0.285
19	13C-1,2,3,7,8-PeCDD	5.77e5	0.63	NO	0.8490	10.029	31.45	1.219	171	85.8	0.494
20	13C-1,2,3,4,7,8-HxCDD	3.67e5	1.27	NO	0.7790	10.029	34.83	1.014	141	79.6	0.705
21	13C-1,2,3,6,7,8-HxCDD	5.86e5	1.29	NO	1.0167	10.029	34.93	1.017	172	86.4	0.540



Custom Reporting: Select reports to generate

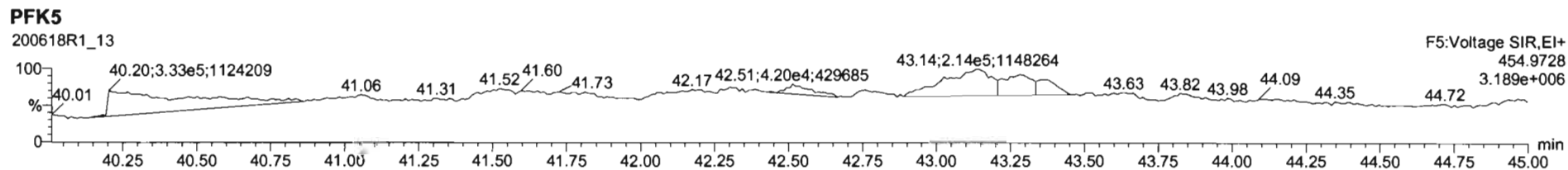
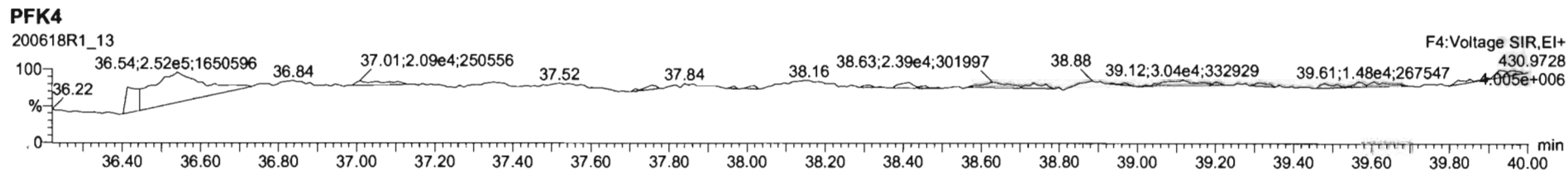
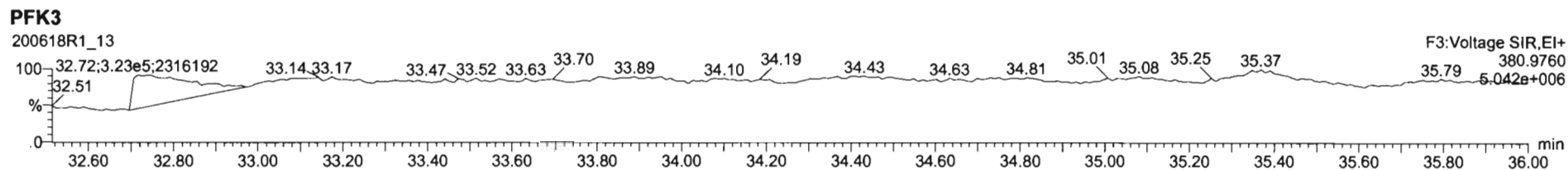
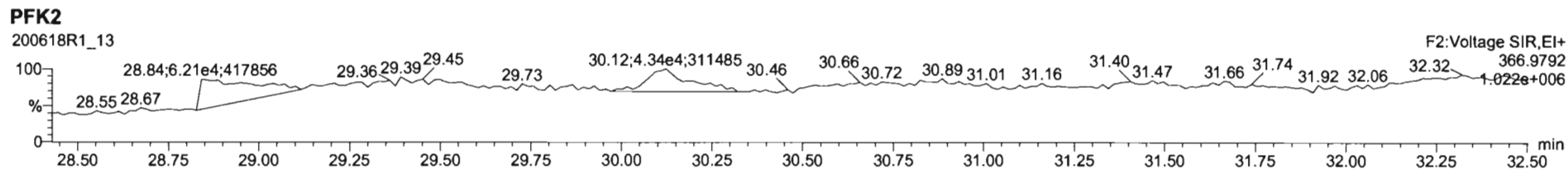
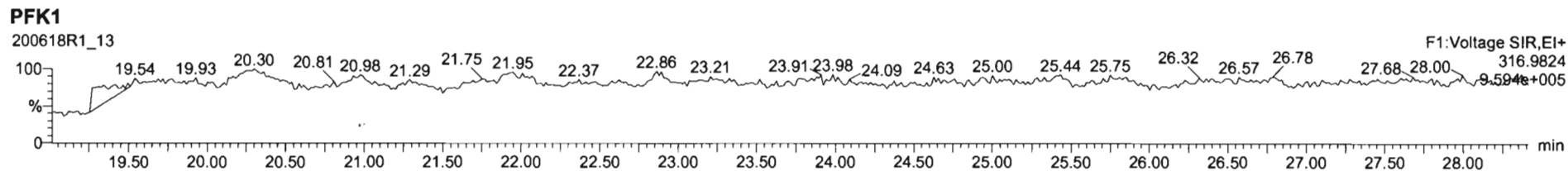
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Printed: Friday, June 19, 2020 07:33:51 Pacific Daylight Time

Name: 200618R1_13, Date: 18-Jun-2020, Time: 22:21:39, ID: 2000965-05RE1 PDI-150SC-A-04-05-200425 11.27, Description: PDI-150SC-A-04-05-200425



Dataset: U:\VG12.PRO\Results\200603R1\200603R1-10.qld

Last Altered: Thursday, June 04, 2020 15:22:20 Pacific Daylight Time

Printed: Thursday, June 04, 2020 15:22:46 Pacific Daylight Time

GPB 06/04/2020

CT 06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

#	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	0.888	10.145	26.531		1.001				0.0508	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.145	31.473		1.001				0.0867	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.145	34.836		1.000				0.0683	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.145	34.932		1.000				0.0710	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.145	35.220		1.000				0.0822	
6	6 1,2,3,4,6,7,8-HpCDD	2.69e3	1.13	NO	0.864	10.145	38.757	38.74	1.000	1.000	1.9722		0.117	1.97
7	7 OCDD	2.78e4	0.86	NO	0.914	10.145	41.727	41.74	1.000	1.000	23.320		0.376	23.3
8	8 2,3,7,8-TCDF			NO	0.751	10.145	25.627		1.001				0.0399	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.145	30.190		1.001				0.0571	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.145	31.177		1.001				0.0536	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.145	33.952		1.000				0.0429	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.145	34.079		1.000				0.0374	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.145	34.690		1.001				0.0408	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.145	35.571		1.000				0.0632	
15	15 1,2,3,4,6,7,8-HpCDF	1.33e3	0.95	NO	0.873	10.145	37.376	37.36	1.001	1.001	0.82361		0.150	0.824
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.145	39.288		1.000				0.164	
17	17 OCDF	7.43e2	0.83	NO	0.806	10.145	41.930	41.95	1.000	1.000	0.61382		0.125	0.614
18	18 13C-2,3,7,8-TCDD	8.93e5	0.78	NO	1.16	10.145	26.522	26.50	1.026	1.026	195.72	99.3	0.195	
19	19 13C-1,2,3,7,8-PeCDD	6.37e5	0.63	NO	0.849	10.145	31.711	31.45	1.227	1.217	190.10	96.4	0.212	
20	20 13C-1,2,3,4,7,8-HxCDD	4.38e5	1.26	NO	0.779	10.145	34.830	34.83	1.014	1.014	189.73	96.2	0.575	
21	21 13C-1,2,3,6,7,8-HxCDD	5.28e5	1.25	NO	1.02	10.145	34.944	34.93	1.017	1.017	175.46	89.0	0.440	
22	22 13C-1,2,3,7,8,9-HxCDD	4.66e5	1.25	NO	0.903	10.145	35.215	35.21	1.025	1.025	174.46	88.5	0.496	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.11e5	1.02	NO	0.689	10.145	38.739	38.74	1.128	1.128	152.41	77.3	0.452	
24	24 13C-OCDD	5.15e5	0.90	NO	0.652	10.145	41.761	41.73	1.216	1.215	266.57	67.6	0.534	
25	25 13C-2,3,7,8-TCDF	1.10e6	0.78	NO	1.06	10.145	25.564	25.60	0.989	0.991	178.48	90.5	0.272	
26	26 13C-1,2,3,7,8-PeCDF	9.56e5	1.60	NO	0.838	10.145	30.093	30.17	1.165	1.168	195.99	99.4	0.455	
27	27 13C-2,3,4,7,8-PeCDF	9.28e5	1.59	NO	0.817	10.145	31.047	31.15	1.202	1.205	195.12	99.0	0.467	
28	28 13C-1,2,3,4,7,8-HxCDF	5.53e5	0.51	NO	1.01	10.145	33.961	33.95	0.989	0.989	185.46	94.1	0.734	
29	29 13C-1,2,3,6,7,8-HxCDF	6.38e5	0.51	NO	1.17	10.145	34.085	34.07	0.992	0.992	184.58	93.6	0.633	
30	30 13C-2,3,4,6,7,8-HxCDF	5.90e5	0.52	NO	1.02	10.145	34.659	34.65	1.009	1.009	194.89	98.9	0.723	
31	31 13C-1,2,3,7,8,9-HxCDF	4.52e5	0.50	NO	0.860	10.145	35.558	35.57	1.035	1.036	177.67	90.1	0.860	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-10.qld

Last Altered: Thursday, June 04, 2020 15:22:20 Pacific Daylight Time

Printed: Thursday, June 04, 2020 15:22:46 Pacific Daylight Time

Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.64e5	0.44	NO	0.774	10.145	37.307	37.34	1.086	1.087	158.84	80.6	0.532	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.56e5	0.43	NO	0.521	10.145	39.336	39.29	1.145	1.144	166.12	84.3	0.791	
34	34 13C-OCDF	5.92e5	0.90	NO	0.746	10.145	41.933	41.93	1.221	1.221	268.11	68.0	0.482	
35	35 37Cl-2,3,7,8-TCDD	2.95e5			1.04	10.145	26.553	26.51	1.028	1.026	72.110	91.4	0.0439	
36	36 13C-1,2,3,4-TCDD	7.78e5	0.80	NO	1.00	10.145	25.890	25.84	1.000	1.000	197.14	100	0.226	
37	37 13C-1,2,3,4-TCDF	1.15e6	0.78	NO	1.00	10.145	24.360	24.16	1.000	1.000	197.14	100	0.288	
38	38 13C-1,2,3,4,6,9-HxCDF	5.84e5	0.51	NO	1.00	10.145	34.420	34.35	1.000	1.000	197.14	100	0.739	
39	39 Total Tetra-Dioxins				0.888	10.145	24.620		0.000				0.0305	
40	40 Total Penta-Dioxins				0.908	10.145	29.960		0.000				0.0435	
41	41 Total Hexa-Dioxins				0.892	10.145	33.635		0.000		1.5215		0.0770	1.52
42	42 Total Hepta-Dioxins				0.864	10.145	37.640		0.000		6.0052		0.117	6.01
43	43 Total Tetra-Furans				0.751	10.145	23.610		0.000		0.12195		0.0399	0.122
44	44 1st Func. Penta-Furans				0.893	10.145	27.580		0.000		0.41032		0.0292	0.410
45	45 Total Penta-Furans				0.893	10.145	29.275		0.000				0.0367	
46	46 Total Hexa-Furans				0.934	10.145	33.555		0.000		0.65629		0.0429	0.735
47	47 Total Hepta-Furans				0.873	10.145	37.835		0.000		2.0146		0.167	2.01

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-10.qld

Last Altered: Thursday, June 04, 2020 15:22:20 Pacific Daylight Time

Printed: Thursday, June 04, 2020 15:22:46 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

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	33.32	2.294e4	1.599e4	1.134e3	8.561e2	1.32	NO	1.990e3	0.92104	0.92104	0.0770
2	Total Hexa-Dioxins	33.89	5.614e3	5.892e3	2.841e2	2.299e2	1.24	NO	5.140e2	0.23792	0.23792	0.0770
3	Total Hexa-Dioxins	34.14	6.695e3	5.804e3	4.569e2	3.264e2	1.40	NO	7.833e2	0.36258	0.36258	0.0770

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.74	4.033e4	4.323e4	2.859e3	2.637e3	1.08	NO	5.496e3	4.0329	4.0329	0.117
2	1,2,3,4,6,7,8-HpCDD	38.74	2.007e4	1.718e4	1.428e3	1.260e3	1.13	NO	2.688e3	1.9722	1.9722	0.117

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.51	3.737e3	4.772e3	2.264e2	2.849e2	0.79	NO	5.113e2	0.12195	0.12195	0.0399

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	27.61	1.624e4	9.430e3	1.099e3	6.508e2	1.69	NO	1.750e3	0.41032	0.41032	0.0292

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-10.qld

Last Altered: Thursday, June 04, 2020 15:22:20 Pacific Daylight Time

Printed: Thursday, June 04, 2020 15:22:46 Pacific Daylight Time

Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.78	2.484e3	2.745e3	1.159e2	1.327e2	0.87	YES	0.000e0	0.00000	0.079164	0.0429
2	Total Hexa-Furans	32.95	8.142e3	7.335e3	3.851e2	3.472e2	1.11	NO	7.323e2	0.27687	0.27687	0.0429
3	Total Hexa-Furans	33.51	1.034e4	1.012e4	5.150e2	4.884e2	1.05	NO	1.003e3	0.37942	0.37942	0.0429

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	37.36	9.687e3	9.175e3	6.474e2	6.816e2	0.95	NO	1.329e3	0.82361	0.82361	0.150
2	Total Hepta-Furans	37.97	1.158e4	1.296e4	8.022e2	8.346e2	0.96	NO	1.637e3	1.1910	1.1910	0.167

F

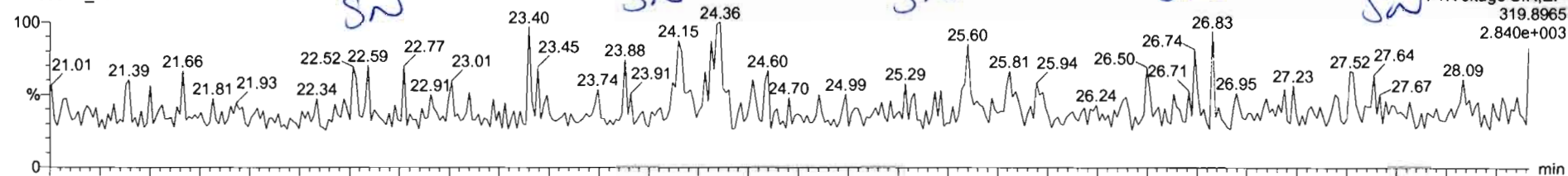
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

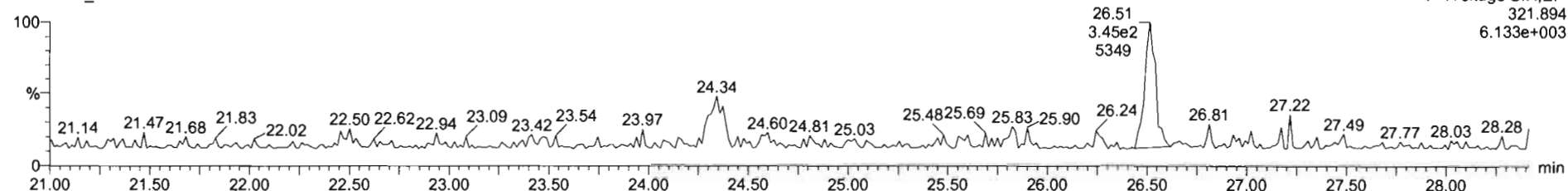
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200603R1_10



F1:Voltage SIR,EI+
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2.840e+003

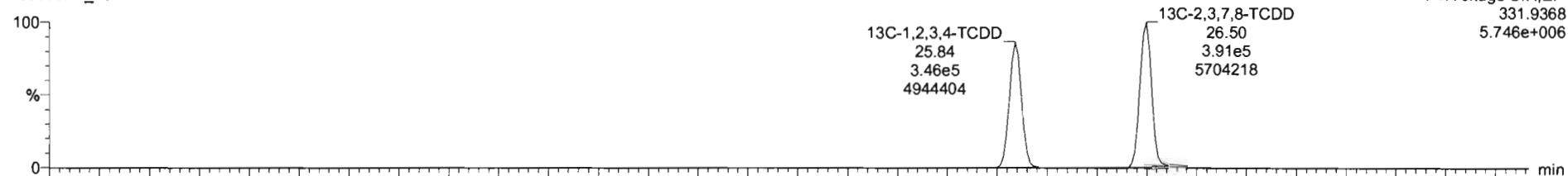
200603R1_10



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6.133e+003

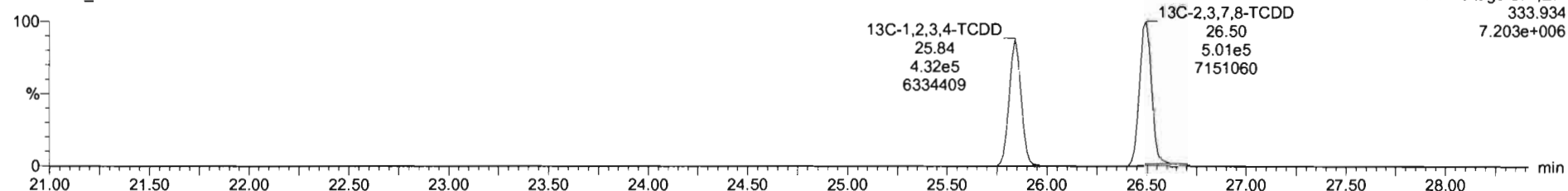
13C-2,3,7,8-TCDD

200603R1_10



F1:Voltage SIR,EI+
331.9368
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200603R1_10



F1:Voltage SIR,EI+
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7.203e+006

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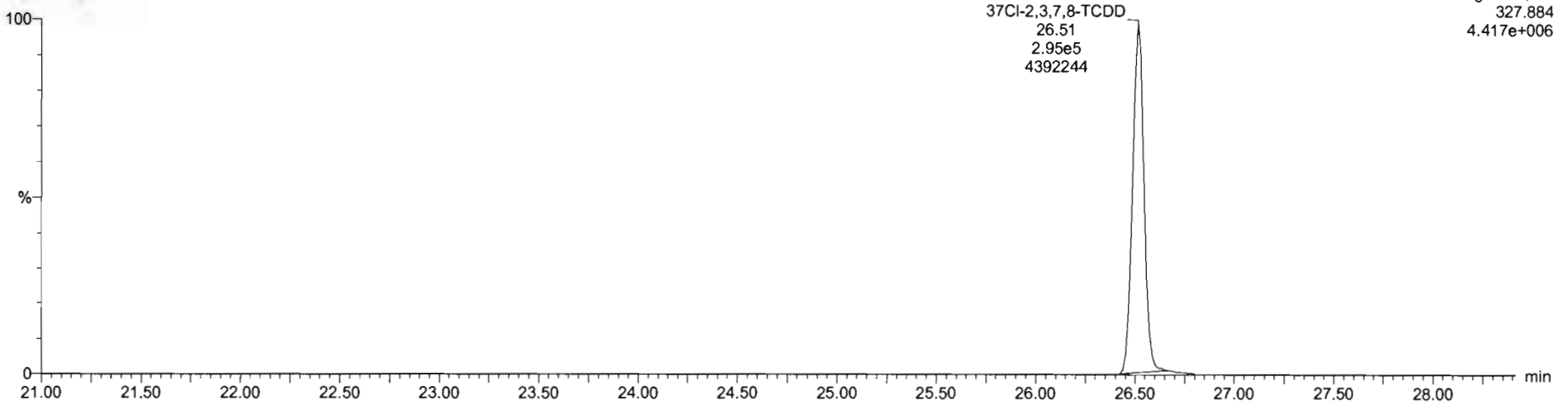
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

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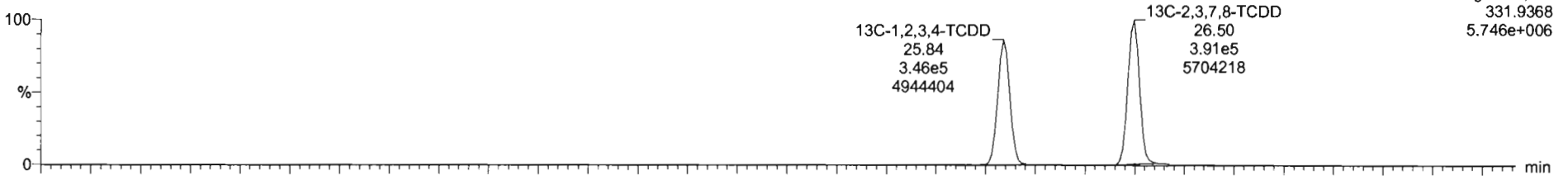
37Cl-2,3,7,8-TCDD

200603R1_10

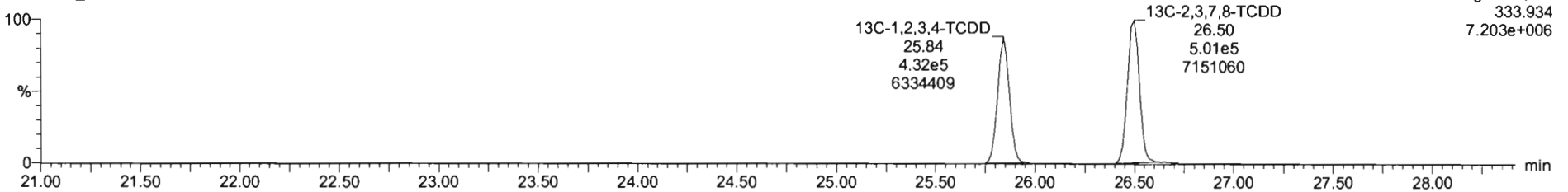


13C-1,2,3,4-TCDD

200603R1_10



200603R1_10



Dataset: Untitled

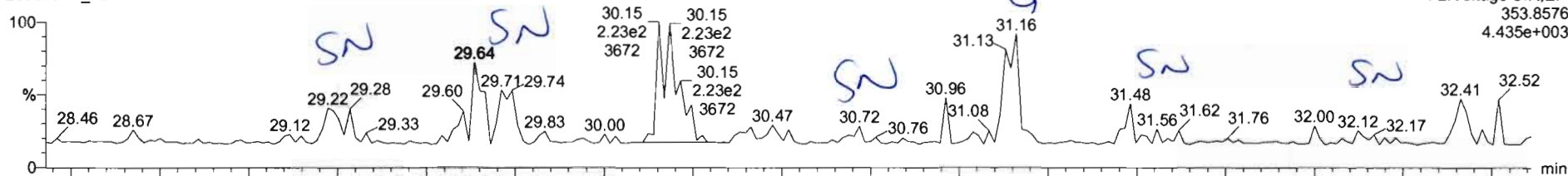
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

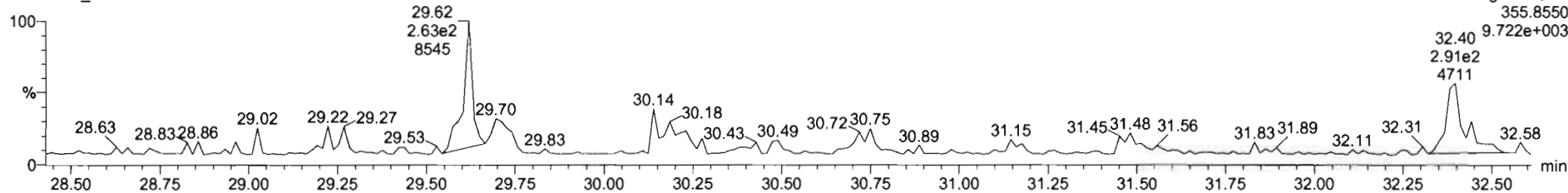
1,2,3,7,8-PeCDD

200603R1_10



F2:Voltage SIR,EI+
353.8576
4.435e+003

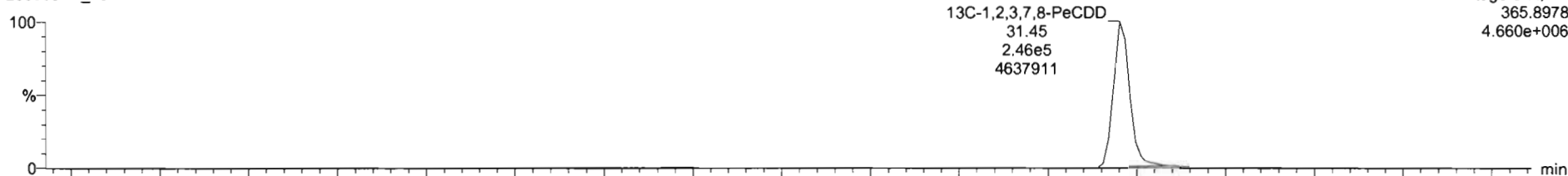
200603R1_10



F2:Voltage SIR,EI+
355.8550
9.722e+003

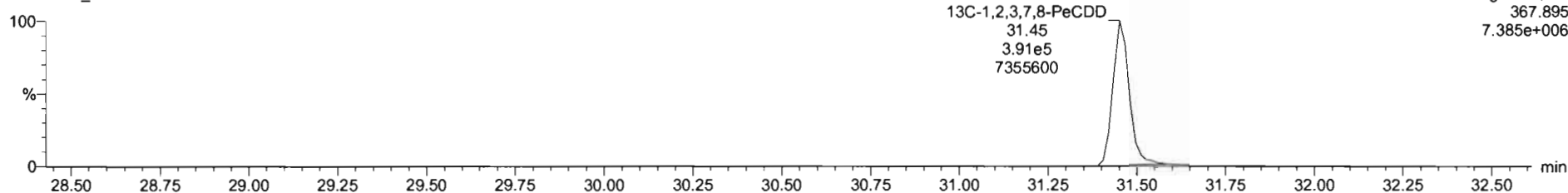
13C-1,2,3,7,8-PeCDD

200603R1_10



F2:Voltage SIR,EI+
365.8978
4.660e+006

200603R1_10



F2:Voltage SIR,EI+
367.895
7.385e+006

Dataset: Untitled

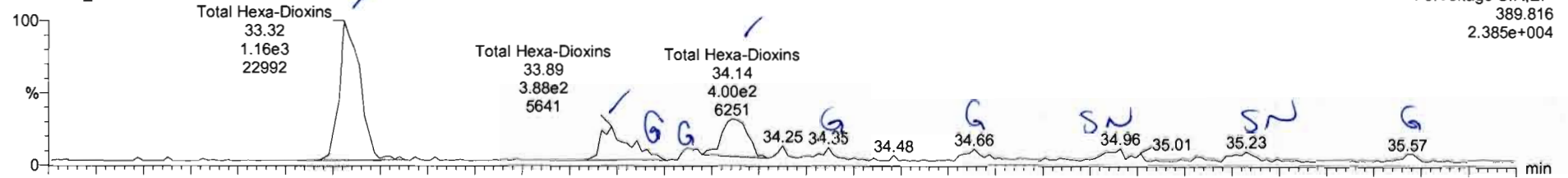
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

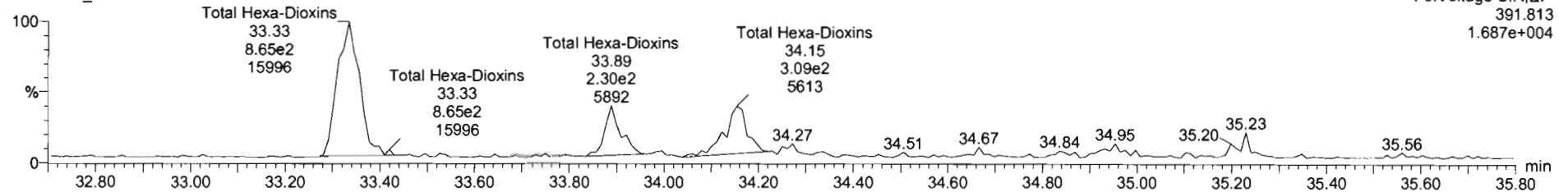
Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

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

200603R1_10

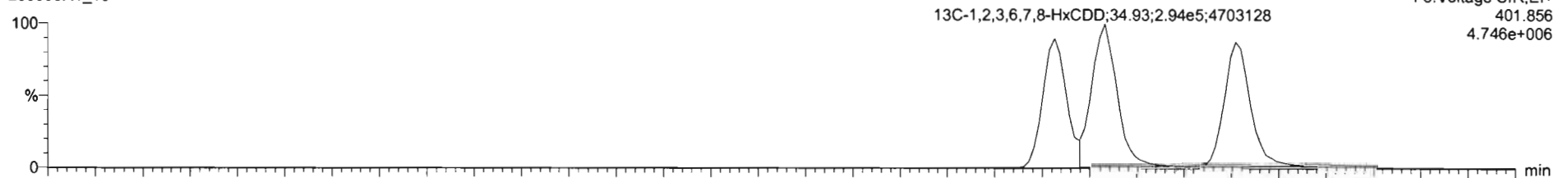


200603R1_10

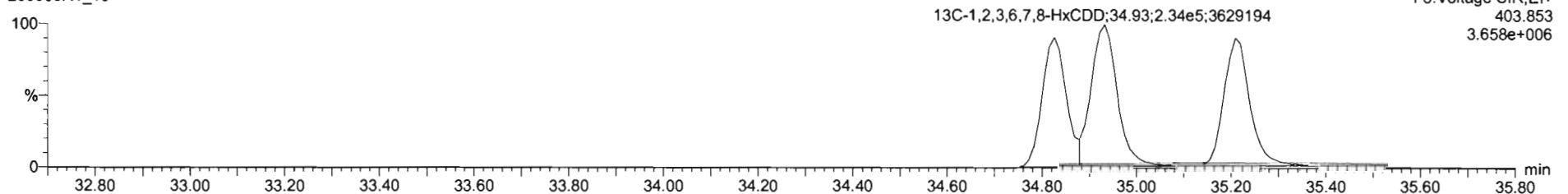


13C-1,2,3,4,7,8-HxCDD

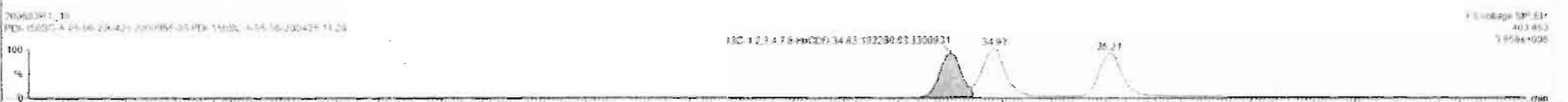
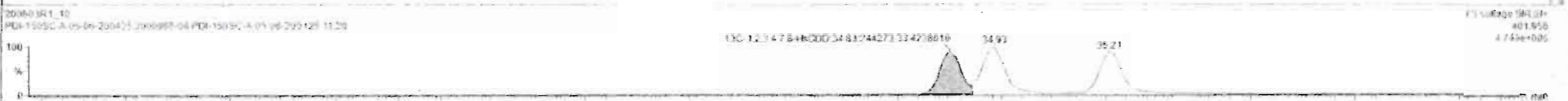
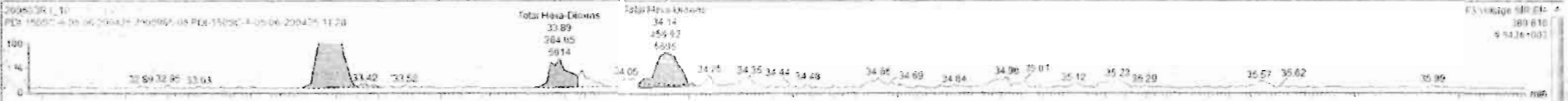
200603R1_10



200603R1_10



Name	Resp	RA	my	RRT	Width	RT	NRT	Conc	ISRef	DA	DPK
38 13C-1,2,3,4,6-PHOCDF	5.6e5	0.51	NO	1.000	10.145	34.25	1.000	187	100	0.729	
39 Total Tetra-Chlorins				0.883	10.145					0.0305	
40 Total Penta-Chlorins				0.901	10.145					0.0435	
41 Total Hexa-Chlorins				0.8923	10.145			1.52		0.6770	1.42
42 Total Hepta-Chlorins				0.8633	10.145			0.01		0.117	0.51
43 Total Tetra-Furans				0.7510	10.145			0.120		0.0369	0.12
44 1st Func. Tetra-Furans				0.8925	10.145			0.410		0.2082	0.41
45 Total Penta-Furans				0.8925	10.145					0.0627	
46 Total Hexa-Furans				0.9241	10.145			0.277		0.0423	0.52
47 Total Hepta-Furans				0.8734	10.145			0.06		0.107	0.20
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



Dataset: Untitled

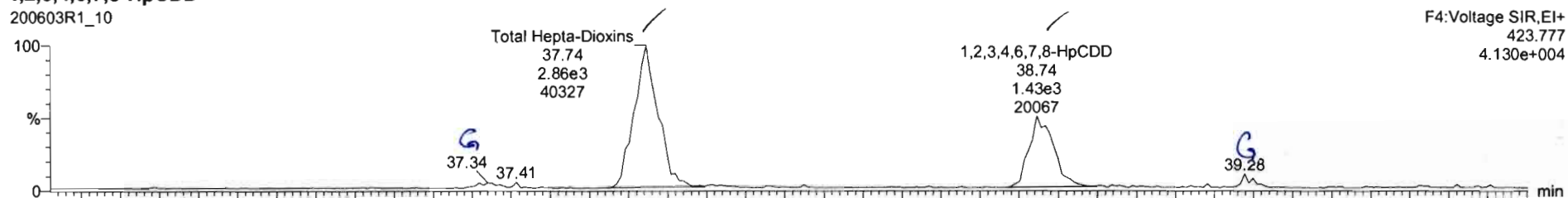
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

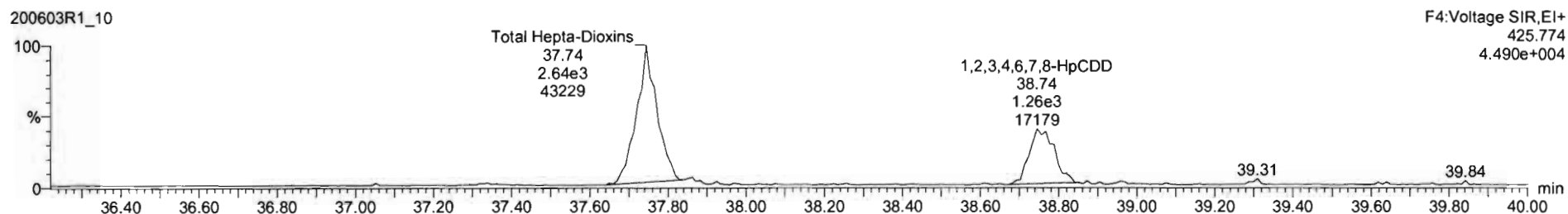
Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

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

200603R1_10

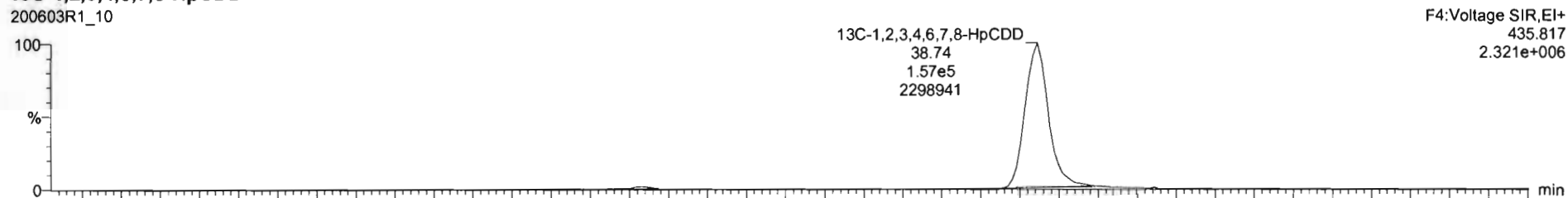


200603R1_10

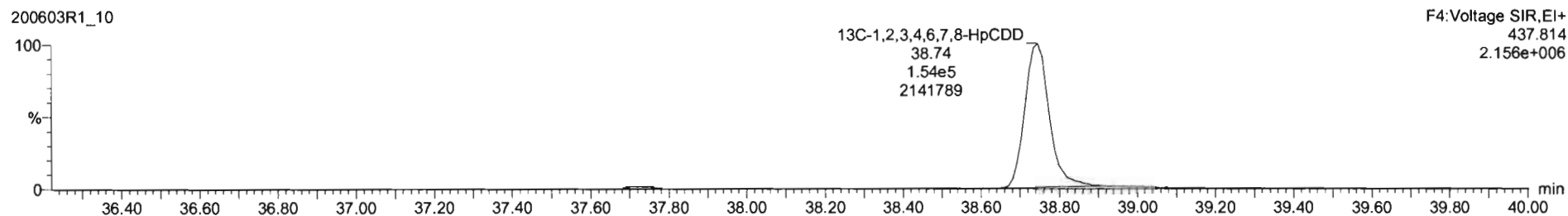


13C-1,2,3,4,6,7,8-HpCDD

200603R1_10



200603R1_10

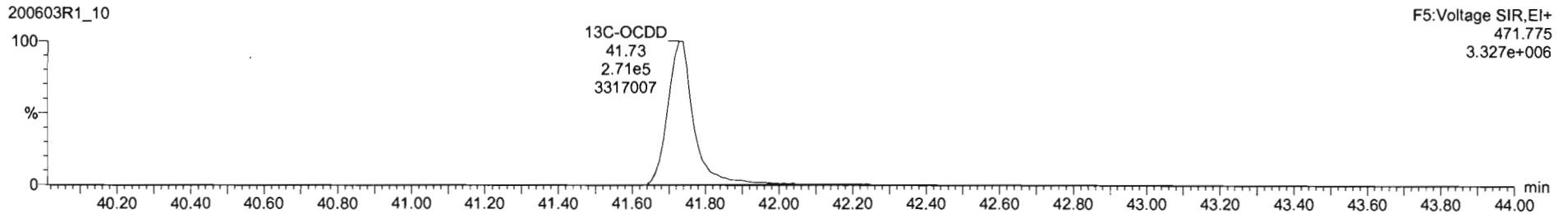
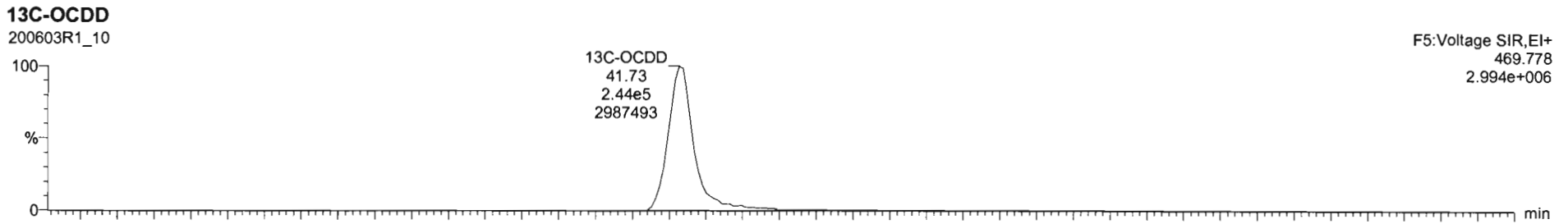
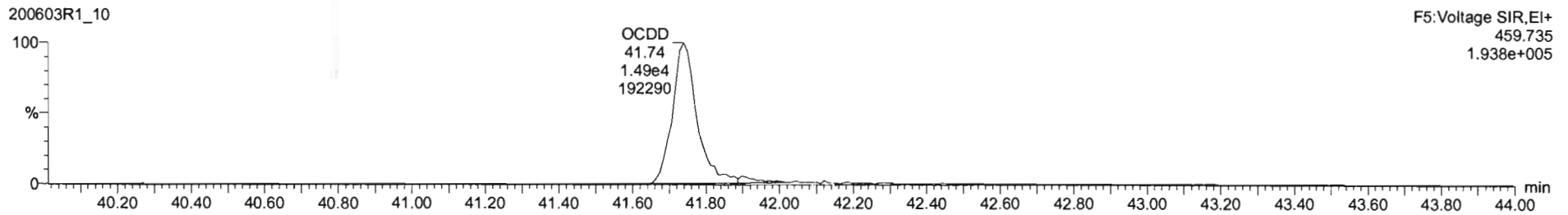
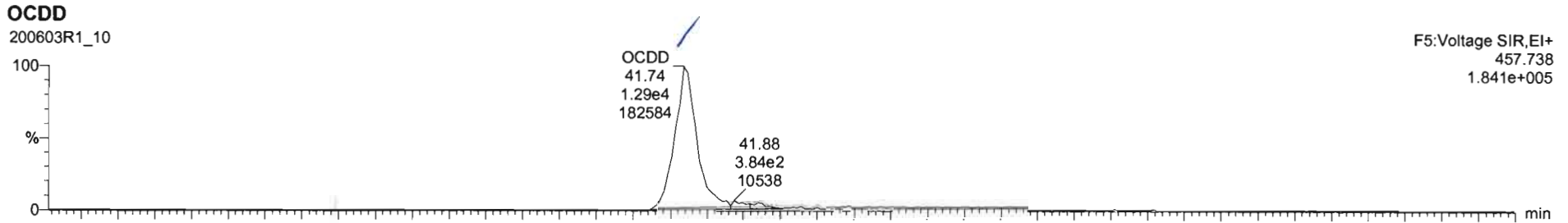


Dataset: Untitled

Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

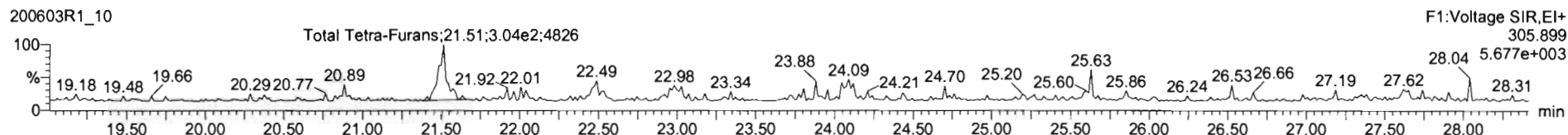
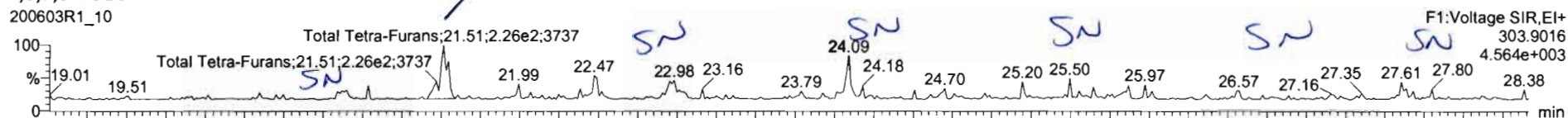


Dataset: Untitled

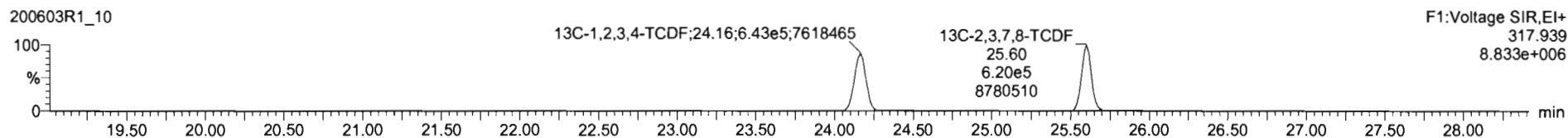
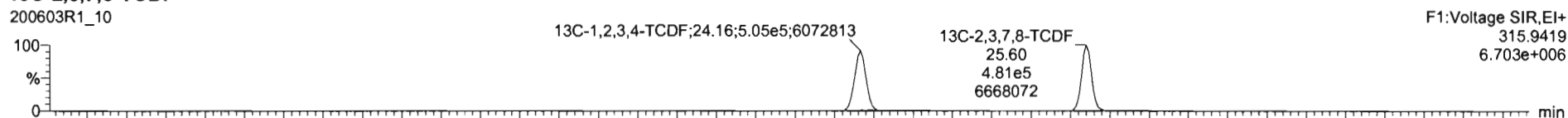
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

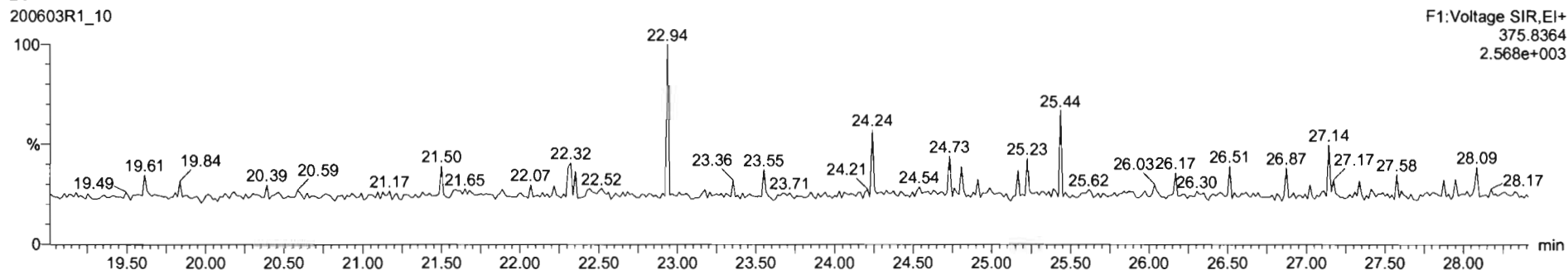
2,3,7,8-TCDF



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

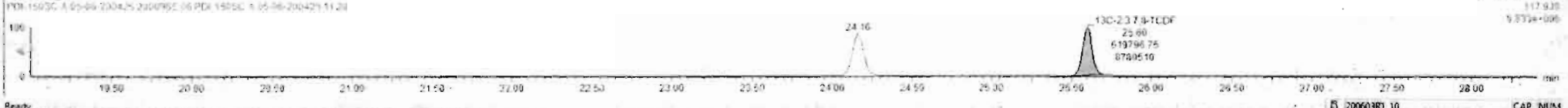
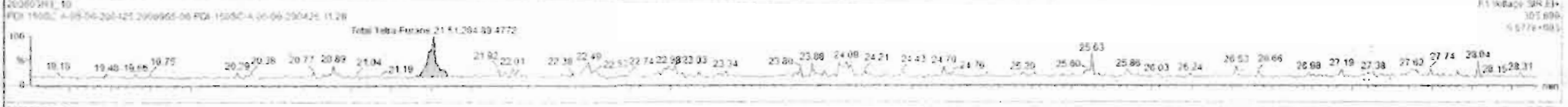
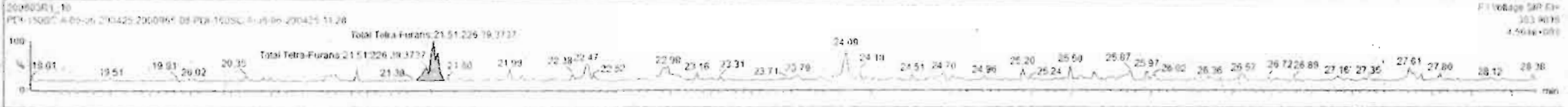


DPE1





Name	Resp	RA	BY	RU	WVDF	RT	ART	Conc	%Rec	DL	ERR
33 13C-1,2,3,4-E-PentCDF	5.865	0.51	NO	1.8000	10.145	34.35	1.090		197	180	0.739
39 Total Tetra-Furans				0.8953	10.145						0.7042
40 Total Penta-Furans				0.9051	10.145						0.2455
41 Total Hexa-Furans				0.8523	10.145			1.24			0.2776
42 Total Hepta-Furans				0.9630	10.145			6.01			0.117
43 Total Tetra-Furans				0.7910	10.145			6.122			0.6909
44 Total Penta-Furans				0.8925	10.145			0.410			0.0230
45 Total Hexa-Furans				0.8925	10.145						0.6367
46 Total Hepta-Furans				0.9541	10.145			0.277			0.3425
47 Total Hepta-Furans				0.8734	10.145			2.06			0.187
48 PF61											
49 PF62											
50 PF63											
51 PF64											
52 PF65											
53 OF1											
54 OF2											
55 OF3											
56 OF4											
57 OF5											
58 OF6											



Dataset: Untitled

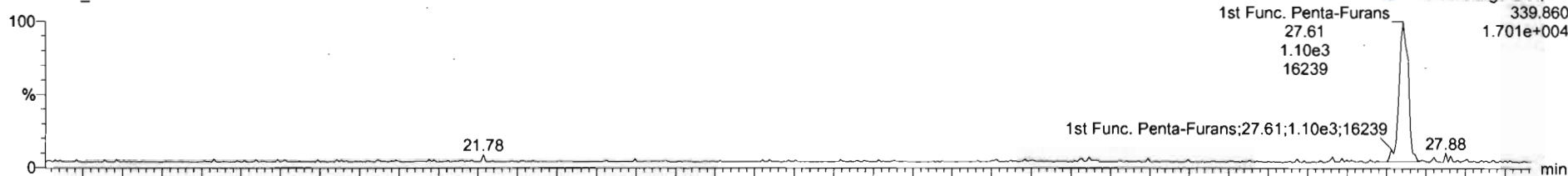
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

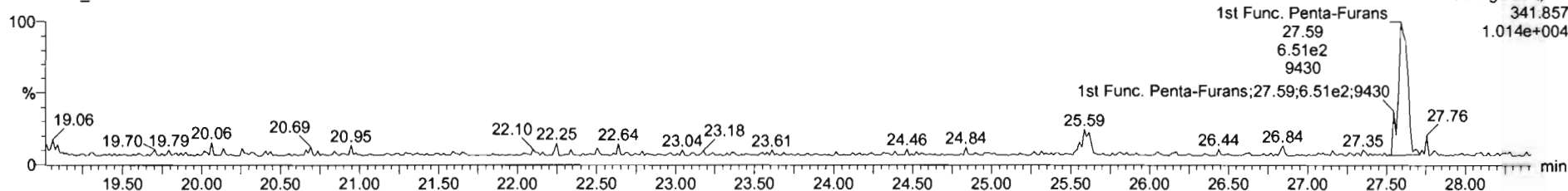
Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

1st Func. Penta-Furans

200603R1_10

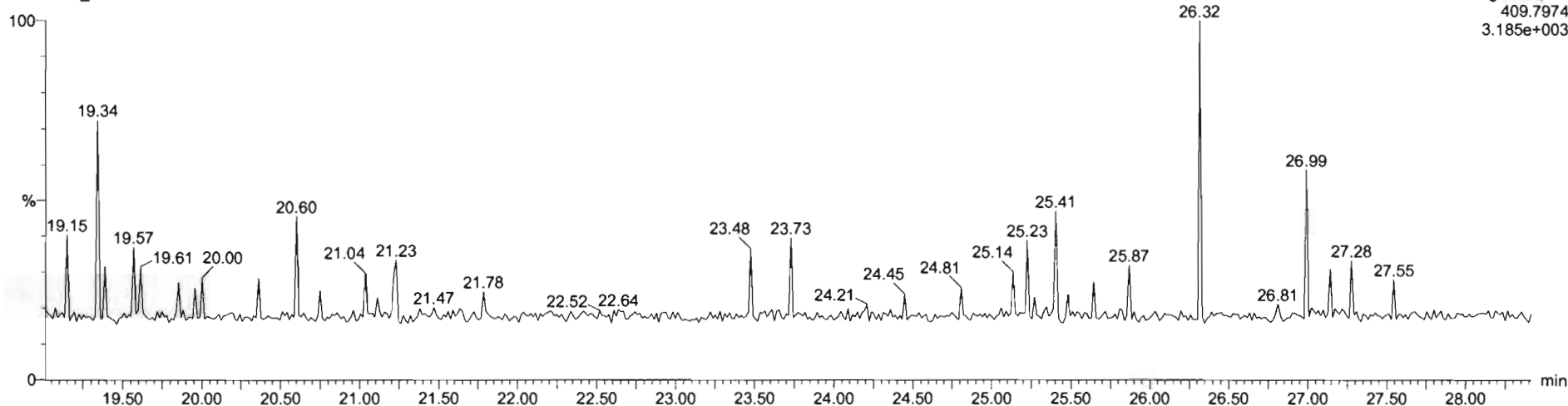


200603R1_10



DPE6

200603R1_10



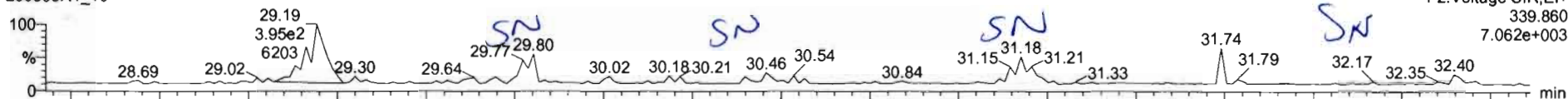
Dataset: Untitled

Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

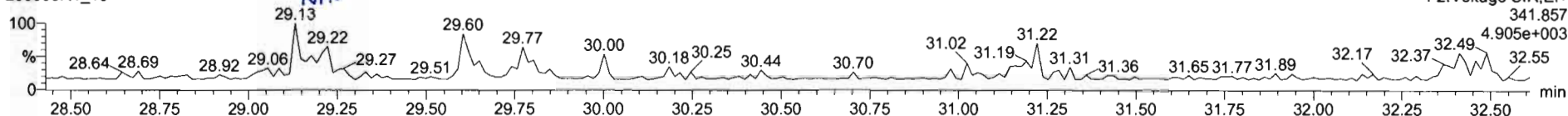
Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

1,2,3,7,8-PeCDF

200603R1_10

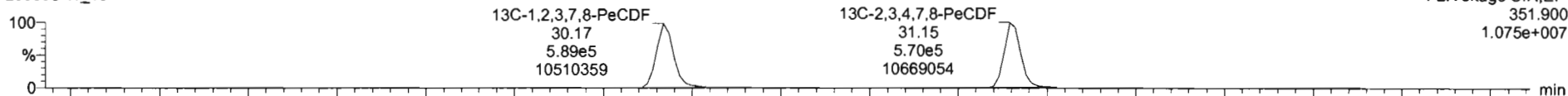


200603R1_10

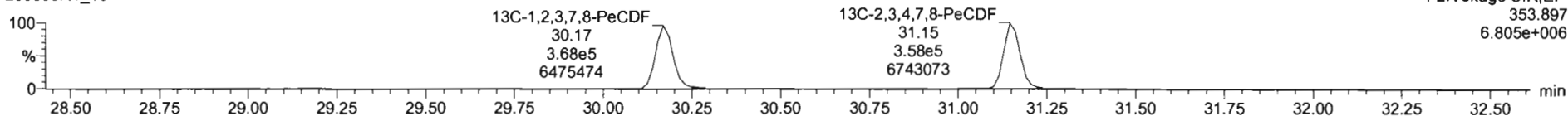


13C-1,2,3,7,8-PeCDF

200603R1_10

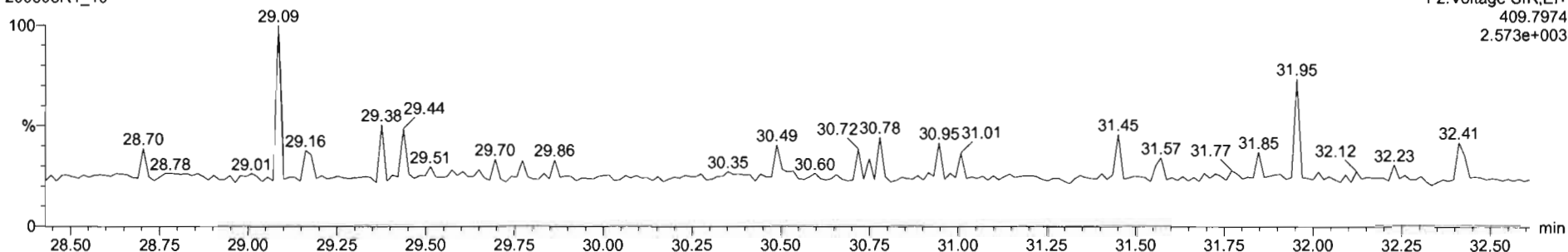


200603R1_10



DPE2

200603R1_10

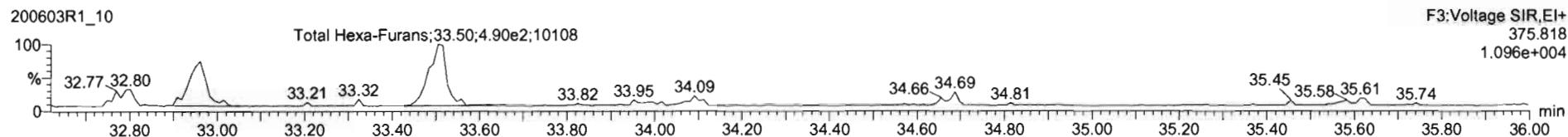
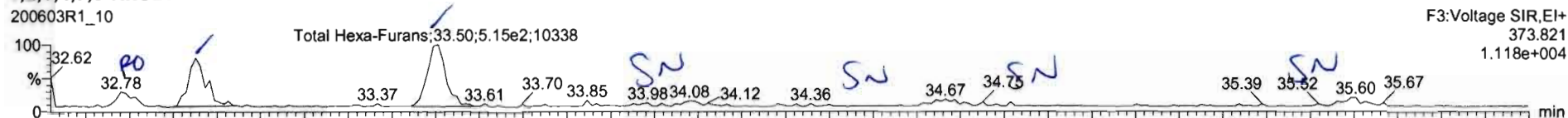


Dataset: Untitled

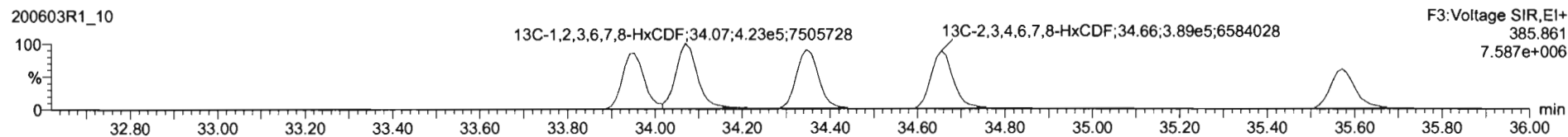
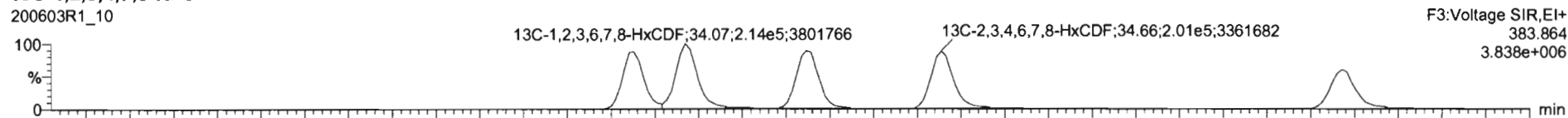
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Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

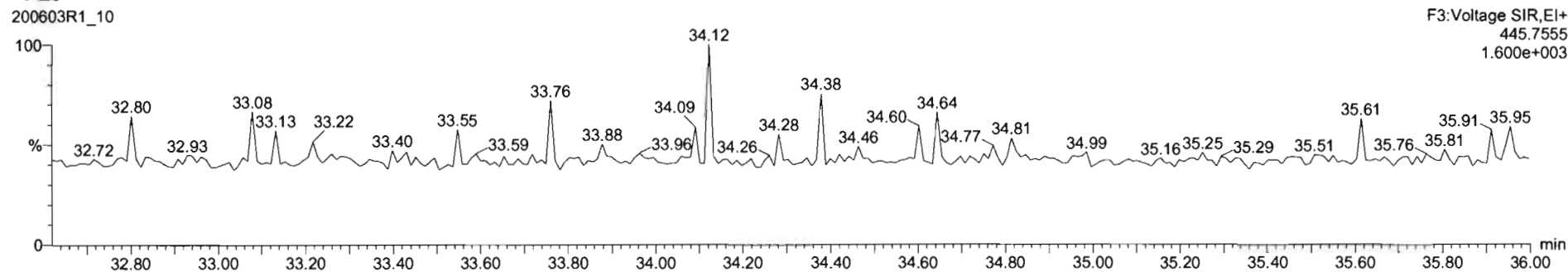
1,2,3,4,7,8-HxCDF



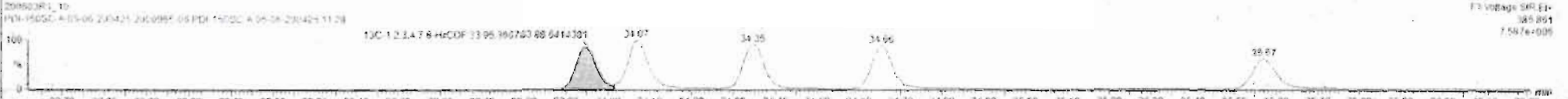
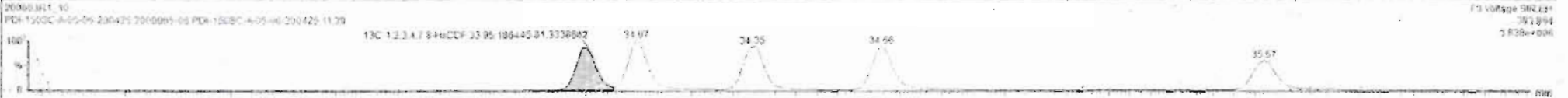
13C-1,2,3,4,7,8-HxCDF



DPE3



SI	Name	Resp	RA	inj	RRF	width	RT	RRT	Conc	%Rec	DL	EMV
38	13C-1,2,3,4,6,9-HxCDF	5.5e2	0.51	10	1.8000	10.145	34.57	1.060	197	190	0.739	
39	Total Hexa-Chlorine				0.6057	10.145					0.0205	
40	Total Penta-Chlorine				0.5061	10.145					0.0435	
41	Total Hexa-Chlorine				0.6923	10.145		1.127			0.0770	1.12
42	Total Hepta-Chlorine				0.9035	10.145		0.81			0.1127	0.91
43	Total Tetra-Furans				0.7510	10.145		0.152			0.0399	0.152
44	1st Func. Penta-Furans				0.8925	10.145		0.410			0.1050	0.410
45	Total Penta-Furans				0.8925	10.145					0.0947	
46	Total Hexa-Furans				0.6341	10.145		0.950			0.0439	0.730
47	Total Hepta-Furans				0.8734	10.145		2.04			0.167	2.04
48	PK1											
49	PK2											
50	PK3											
51	PK4											
52	PK5											
53	DP1											
54	DP2											
55	DP3											
56	DP4											
57	DP5											
58	DP6											



Dataset: Untitled

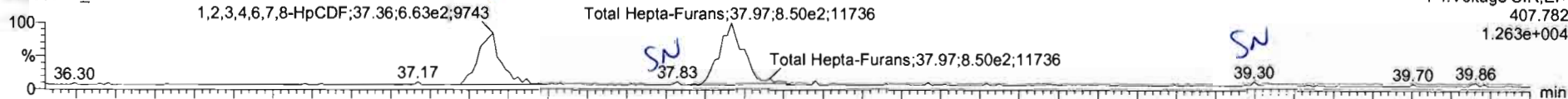
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

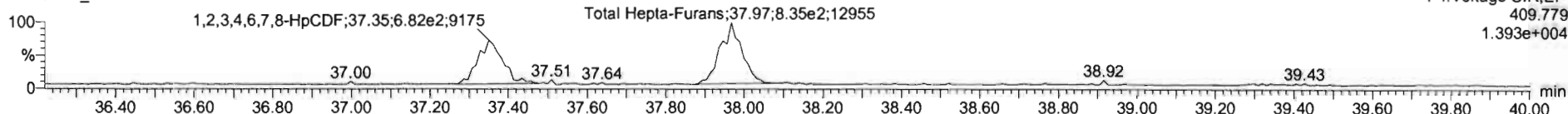
Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

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

200603R1_10

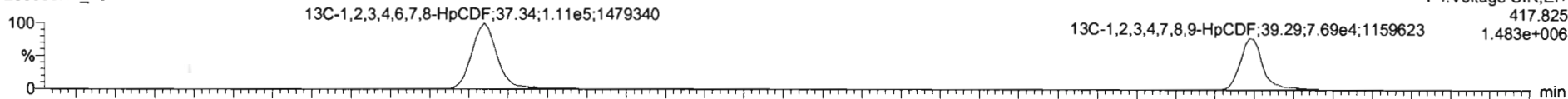


200603R1_10

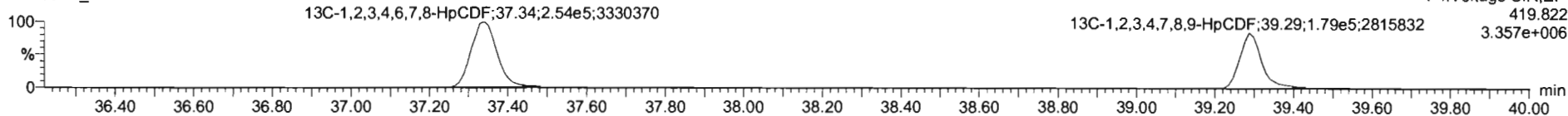


13C-1,2,3,4,6,7,8-HpCDF

200603R1_10

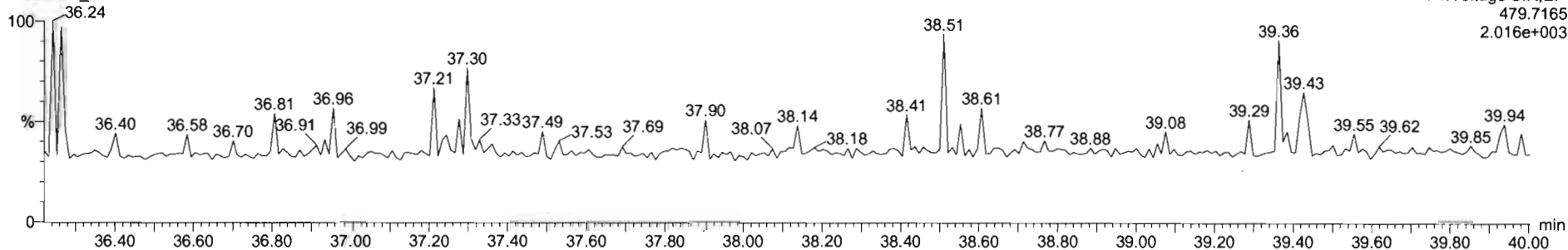


200603R1_10

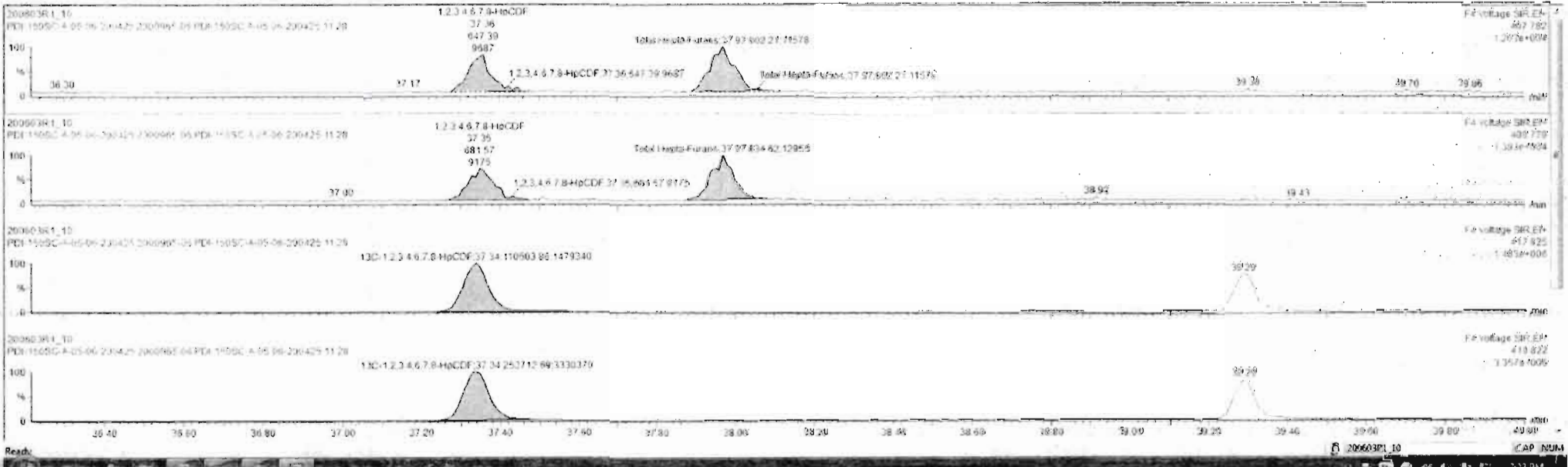


DPE4

200603R1_10



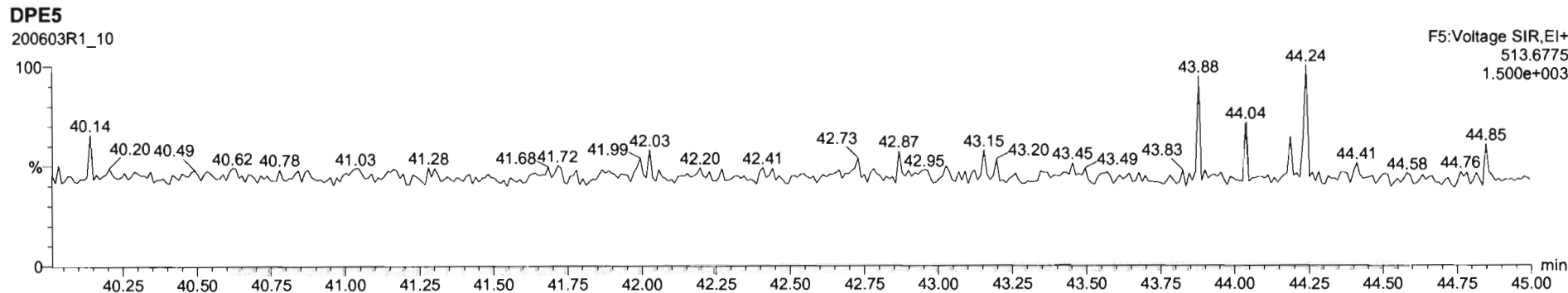
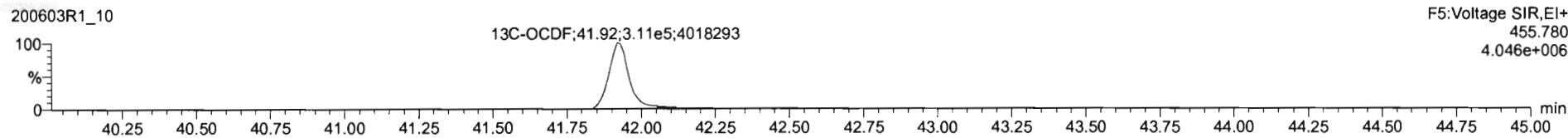
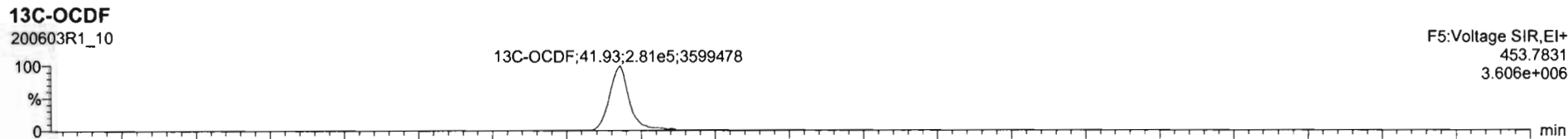
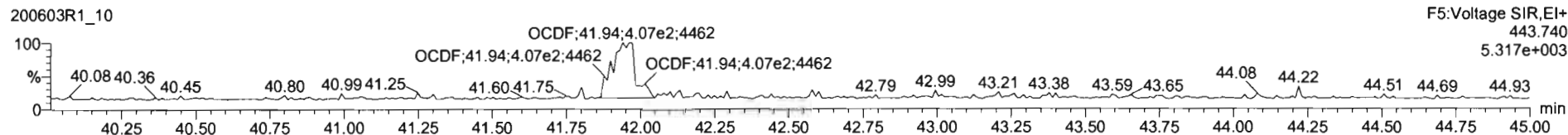
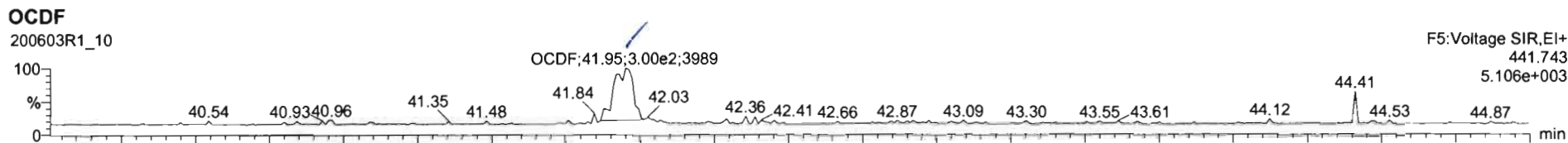
Name	Resp	RA	my	RRF	wt/vol	RT	RET	Conc	%Rec	DL	EMPL
38	13C-1,2,3,4,6-Sixf-Fur	1.847	0.51	NO	1.0000	10.145	14.15	1.000	100	0.730	
39	Total Tetra-Furans				0.8853	10.145				2.0368	
40	Total Penta-Furans				0.9081	10.145				0.0432	
41	Total Hexa-Furans				0.8973	10.145		1.53		0.0770	1.53
42	Total Hepta-Furans				0.9035	10.145		0.01		0.117	0.31
43	Total Tetra-Furans				0.7510	10.145		0.122		0.0399	0.12
44	1st Func. Penta-Furans				0.8625	10.145		0.410		0.0260	0.410
45	Total Penta-Furans				0.8925	10.145				0.0367	
46	Total Hexa-Furans				0.9341	10.145		0.050		0.0429	0.136
47	Total Hepta-Furans				0.8794	10.145		0.01		0.187	2.01
48	PR#1										
49	PR#2										
50	PR#3										
51	PR#4										
52	PR#5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



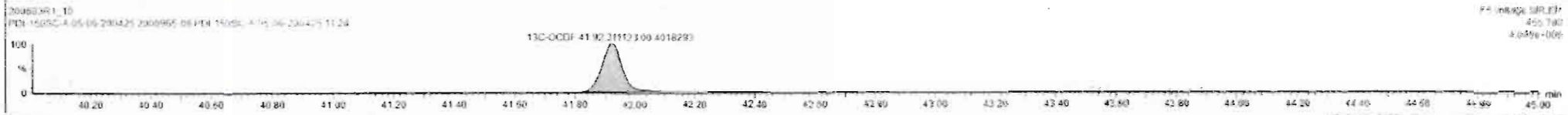
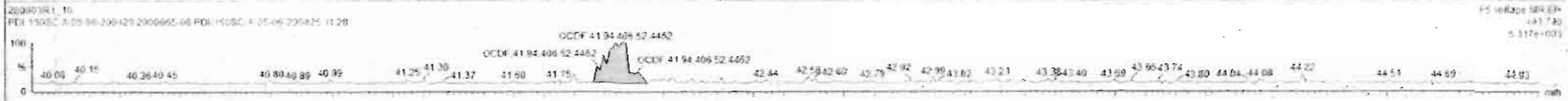
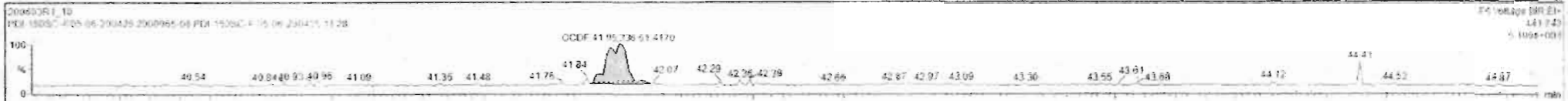
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
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Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425



#	Name	Resp	PA	Qty	RRF	WtVol	RT	RRT	Czcc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.0883	10.145					0.0566	
2	1,2,3,7,8-PeCDD			NO	0.9981	10.145					0.0887	
3	1,2,3,4,7,8-HxCDD			NO	1.8334	10.145					0.0683	
4	1,2,3,6,7,8-HxCDD			NO	0.8923	10.145					0.0716	
5	1,2,3,7,8,9-HxCDD			NO	0.4269	10.145					0.0622	
6	1,2,3,4,6,7,8-HpCDD	2.95e3	1.13	NO	0.9639	10.145	38.74	1.000	1.57		0.117	1.57
7	OCDD	2.78e4	0.86	NO	0.9136	10.145	41.74	1.000	23.3		0.376	23.3
8	2,3,7,8-TCDF			NO	0.7510	10.145					0.0399	
9	1,2,3,7,8-PeCDF			NO	0.8924	10.145					0.0571	
10	2,3,4,7,8-PeCDF			NO	0.9346	10.145					0.0536	
11	1,2,3,4,7,8-HxCDF			NO	0.8944	10.145					0.0429	
12	1,2,3,6,7,8-HxCDF			NO	0.8862	10.145					0.0374	
13	2,3,4,6,7,8-HxCDF			NO	0.9341	10.145					0.0468	
14	1,2,3,7,8,9-HxCDF			NO	0.8757	10.145					0.0632	
15	1,2,3,4,6,7,8-HpCDF	1.34e3	0.97	NO	0.8234	10.145	37.35	1.001	0.833		0.150	0.833
16	1,2,3,4,7,8,9-HpCDF			NO	1.6128	10.145					0.164	
17	OCDF	7.43e2	0.83	NO	0.8085	10.145	41.95	1.000	0.614		0.125	0.614
18	13C-2,3,7,8-TCDD	6.93e5	0.78	NO	1.1563	10.145	26.50	1.026	186	99.7	0.195	
19	13C-1,2,3,7,8-PeCDD	6.37e5	0.63	NO	0.8499	10.145	31.45	1.217	190	96.4	0.212	
20	13C-1,2,3,4,7,8-HxCDD	4.38e5	1.28	NO	0.7750	10.145	34.83	1.014	190	96.2	0.275	
21	13C-1,2,3,6,7,8-HxCDD	5.26e5	1.28	NO	1.0167	10.145	34.93	1.017	175	89.0	0.440	



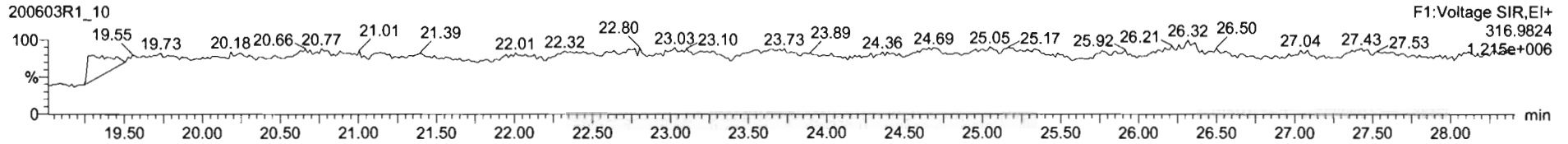
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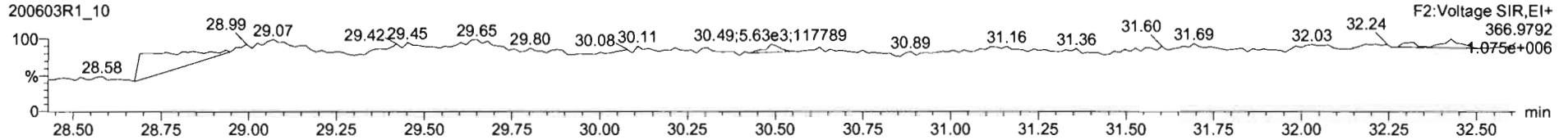
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Name: 200603R1_10, Date: 03-Jun-2020, Time: 15:06:33, ID: 2000965-06 PDI-150SC-A-05-06-200425 11.28, Description: PDI-150SC-A-05-06-200425

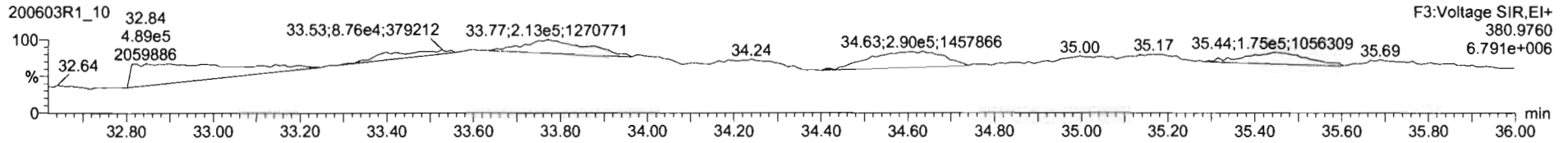
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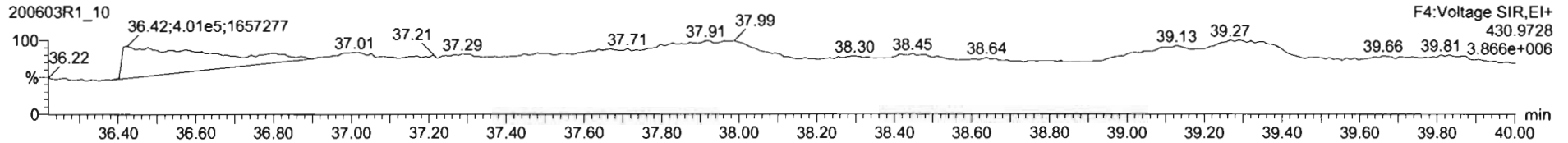
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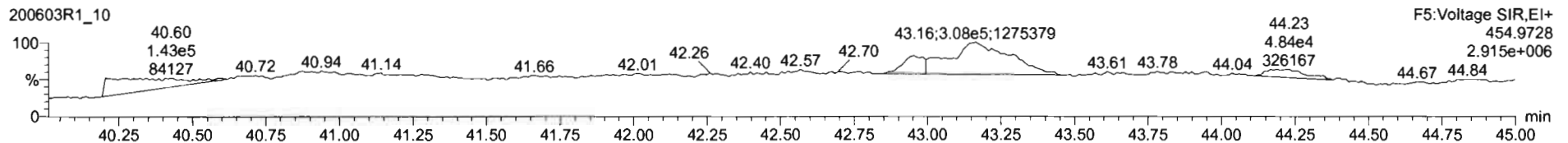
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R1\200603R1-11B.qld

Last Altered: Friday, June 05, 2020 13:57:23 Pacific Daylight Time

Printed: Friday, June 05, 2020 13:58:03 Pacific Daylight Time

GPB 06/05/2020

CT 06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_11, Date: 03-Jun-2020, Time: 15:52:46, ID: 2000965-07 PDI-150SC-A-06-07-200425 11.61, Description: PDI-150SC-A-06-07-200425

#	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	0.888	10.221	26.530		1.001				0.119	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.221	31.488		1.001				0.0876	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.221	34.846		1.000				0.118	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.221	34.943		1.000				0.118	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.221	35.231		1.000				0.145	
6	6 1,2,3,4,6,7,8-HpCDD	2.66e3	1.05	NO	0.864	10.221	38.757	38.76	1.000	1.000	4.2832		0.428	4.28
7	7 OCDD			NO	0.914	10.221	41.727		1.000				0.877	
8	8 2,3,7,8-TCDF			NO	0.751	10.221	25.641		1.001				0.0983	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.221	30.205		1.001				0.0822	
10	10 2,3,4,7,8-PeCDF	4.27e2	1.29	YES	0.935	10.221	31.192	31.19	1.001	1.001	0.13835		0.0799	0.128
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.221	33.952		1.000				0.0685	
12	12 1,2,3,6,7,8-HxCDF	3.05e2	1.12	NO	0.889	10.221	34.090	34.08	1.000	1.000	0.16384		0.0601	0.164
13	13 2,3,4,6,7,8-HxCDF	1.98e2	1.16	NO	0.934	10.221	34.701	34.67	1.001	1.000	0.13110		0.0728	0.131
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.221	35.582		1.000				0.102	
15	15 1,2,3,4,6,7,8-HpCDF	1.41e3	0.89	NO	0.873	10.221	37.387	37.35	1.001	1.000	1.6452		0.165	1.65
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.221	39.288		1.000				0.196	
17	17 OCDF	3.66e2	0.78	NO	0.806	10.221	41.919	41.95	1.000	1.001	0.98822		0.303	0.988
18	18 13C-2,3,7,8-TCDD	6.97e5	0.79	NO	1.16	10.221	26.538	26.50	1.026	1.025	158.23	80.9	0.184	
19	19 13C-1,2,3,7,8-PeCDD	4.59e5	0.63	NO	0.849	10.221	31.729	31.47	1.227	1.217	141.84	72.5	0.279	
20	20 13C-1,2,3,4,7,8-HxCDD	2.69e5	1.32	NO	0.779	10.221	34.841	34.84	1.014	1.014	125.46	64.1	0.541	
21	21 13C-1,2,3,6,7,8-HxCDD	3.32e5	1.17	NO	1.02	10.221	34.955	34.94	1.017	1.017	118.51	60.6	0.414	
22	22 13C-1,2,3,7,8,9-HxCDD	2.83e5	1.20	NO	0.903	10.221	35.226	35.22	1.025	1.025	113.88	58.2	0.467	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.40e5	1.10	NO	0.689	10.221	38.751	38.74	1.128	1.128	74.062	37.8	0.375	
24	24 13C-OCDD	1.06e5	0.90	NO	0.652	10.221	41.775	41.73	1.216	1.215	59.256	15.1	0.262	
25	25 13C-2,3,7,8-TCDF	8.74e5	0.77	NO	1.06	10.221	25.578	25.61	0.989	0.991	149.03	76.2	0.299	
26	26 13C-1,2,3,7,8-PeCDF	7.11e5	1.57	NO	0.838	10.221	30.111	30.18	1.165	1.167	153.30	78.3	0.410	
27	27 13C-2,3,4,7,8-PeCDF	6.46e5	1.60	NO	0.817	10.221	31.065	31.16	1.202	1.205	142.91	73.0	0.421	
28	28 13C-1,2,3,4,7,8-HxCDF	3.45e5	0.50	NO	1.01	10.221	33.972	33.95	0.989	0.988	124.42	63.6	0.695	
29	29 13C-1,2,3,6,7,8-HxCDF	4.09e5	0.50	NO	1.17	10.221	34.096	34.08	0.992	0.992	127.44	65.1	0.600	
30	30 13C-2,3,4,6,7,8-HxCDF	3.17e5	0.49	NO	1.02	10.221	34.670	34.67	1.009	1.009	112.78	57.6	0.685	
31	31 13C-1,2,3,7,8,9-HxCDF	2.79e5	0.52	NO	0.860	10.221	35.570	35.58	1.035	1.036	118.02	60.3	0.815	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-11B.qld

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Printed: Friday, June 05, 2020 13:58:03 Pacific Daylight Time

Name: 200603R1_11, Date: 03-Jun-2020, Time: 15:52:46, ID: 2000965-07 PDI-150SC-A-06-07-200425 11.61, Description: PDI-150SC-A-06-07-200425

	# 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	1.92e5	0.42	NO	0.774	10.221	37.319	37.35	1.086	1.087	90.230	46.1	0.419	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.22e5	0.39	NO	0.521	10.221	39.349	39.29	1.145	1.144	85.437	43.7	0.624	
34	34 13C-OCDF	1.80e5	0.88	NO	0.746	10.221	41.946	41.92	1.221	1.220	87.706	22.4	0.429	
35	35 37Cl-2,3,7,8-TCDD	2.45e5			1.04	10.221	26.569	26.53	1.028	1.026	61.946	79.1	0.0584	
36	36 13C-1,2,3,4-TCDD	7.45e5	0.79	NO	1.00	10.221	25.890	25.85	1.000	1.000	195.68	100	0.212	
37	37 13C-1,2,3,4-TCDF	1.08e6	0.77	NO	1.00	10.221	24.360	24.16	1.000	1.000	195.68	100	0.317	
38	38 13C-1,2,3,4,6,9-HxCDF	5.38e5	0.51	NO	1.00	10.221	34.420	34.36	1.000	1.000	195.68	100	0.700	
39	39 Total Tetra-Dioxins				0.888	10.221	24.620		0.000		0.51640		0.119	0.516
40	40 Total Penta-Dioxins				0.908	10.221	29.960		0.000		0.00000		0.0517	0.426
41	41 Total Hexa-Dioxins				0.892	10.221	33.635		0.000		1.9387		0.132	1.94
42	42 Total Hepta-Dioxins				0.864	10.221	37.640		0.000		13.502		0.428	13.5
43	43 Total Tetra-Furans				0.751	10.221	23.610		0.000		1.1380		0.0983	1.14
44	44 1st Func. Penta-Furans				0.893	10.221	27.580		0.000		1.3699		0.0240	1.37
45	45 Total Penta-Furans				0.893	10.221	29.275		0.000		0.00000		0.0814	0.159
46	46 Total Hexa-Furans				0.934	10.221	33.555		0.000		2.1434		0.0706	2.14
47	47 Total Hepta-Furans				0.873	10.221	37.835		0.000		3.5821		0.189	3.58

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-11B.qld

Last Altered: Friday, June 05, 2020 13:57:23 Pacific Daylight Time

Printed: Friday, June 05, 2020 13:58:03 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_11, Date: 03-Jun-2020, Time: 15:52:46, ID: 2000965-07 PDI-150SC-A-06-07-200425 11.61, Description: PDI-150SC-A-06-07-200425

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.37	9.127e3	1.159e4	7.362e2	8.973e2	0.82	NO	1.633e3	0.51640	0.51640	0.119

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	2.100e3	2.845e3	1.344e2	1.601e2	0.84	YES	0.000e0	0.00000	0.12262	0.0876
2	Total Penta-Dioxins	29.67	1.581e3	2.359e3	7.198e1	1.633e2	0.44	YES	0.000e0	0.00000	0.087511	0.0876
3	Total Penta-Dioxins	29.74	4.508e3	4.779e3	2.154e2	2.813e2	0.77	YES	0.000e0	0.00000	0.21541	0.0876

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	1.674e4	1.703e4	8.718e2	8.205e2	1.06	NO	1.692e3	1.2605	1.2605	0.132
2	Total Hexa-Dioxins	34.15	9.011e3	5.614e3	5.132e2	3.974e2	1.29	NO	9.106e2	0.67827	0.67827	0.132

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.76	4.061e4	3.554e4	2.915e3	2.801e3	1.04	NO	5.716e3	9.2191	9.2191	0.428
2	1,2,3,4,6,7,8-HpCDD	38.76	2.336e4	2.020e4	1.361e3	1.294e3	1.05	NO	2.656e3	4.2832	4.2832	0.428

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	3.265e3	3.297e3	1.748e2	2.205e2	0.79	NO	3.953e2	0.11788	0.11788	0.0983
2	Total Tetra-Furans	21.53	6.759e3	1.142e4	6.089e2	9.149e2	0.67	NO	1.524e3	0.45436	0.45436	0.0983
3	Total Tetra-Furans	22.47	2.621e3	4.275e3	2.326e2	2.794e2	0.83	NO	5.119e2	0.15264	0.15264	0.0983
4	Total Tetra-Furans	22.95	3.489e3	6.090e3	2.829e2	3.976e2	0.71	NO	6.805e2	0.20291	0.20291	0.0983
5	Total Tetra-Furans	24.07	5.651e3	4.684e3	3.109e2	3.941e2	0.79	NO	7.050e2	0.21023	0.21023	0.0983

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Dataset: U:\VG12.PRO\Results\200603R1\200603R1-11B.qld

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Name: 200603R1_11, Date: 03-Jun-2020, Time: 15:52:46, ID: 2000965-07 PDI-150SC-A-06-07-200425 11.61, Description: PDI-150SC-A-06-07-200425

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	27.62	4.075e4	3.059e4	2.532e3	1.709e3	1.48	NO	4.241e3	1.3699	1.3699	0.0240

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	31.19	4.352e3	3.427e3	2.406e2	1.865e2	1.29	YES	4.271e2	0.00000	0.12822	0.0769
2	Total Penta-Furans	31.22	2.169e3	2.885e3	6.116e1	3.478e1	1.76	NO	0.000e0	0.00000	0.030991	0.0814

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	4.935e3	4.508e3	2.400e2	2.065e2	1.16	NO	4.465e2	0.27709	0.27709	0.0706
2	Total Hexa-Furans	32.98	1.021e4	1.111e4	6.217e2	4.975e2	1.25	NO	1.119e3	0.69447	0.69447	0.0706
3	Total Hexa-Furans	33.51	1.475e4	1.361e4	7.901e2	6.230e2	1.27	NO	1.413e3	0.87691	0.87691	0.0706
4	1,2,3,6,7,8-HxCDF	34.08	3.868e3	3.585e3	1.608e2	1.438e2	1.12	NO	3.047e2	0.16384	0.16384	0.0601
5	2,3,4,6,7,8-HxCDF	34.67	1.839e3	2.581e3	1.067e2	9.172e1	1.16	NO	1.985e2	0.13110	0.13110	0.0728

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	37.35	1.044e4	1.114e4	6.656e2	7.464e2	0.89	NO	1.412e3	1.6452	1.6452	0.165
2	Total Hepta-Furans	37.96	9.129e3	9.609e3	6.593e2	7.013e2	0.94	NO	1.361e3	1.9369	1.9369	0.189

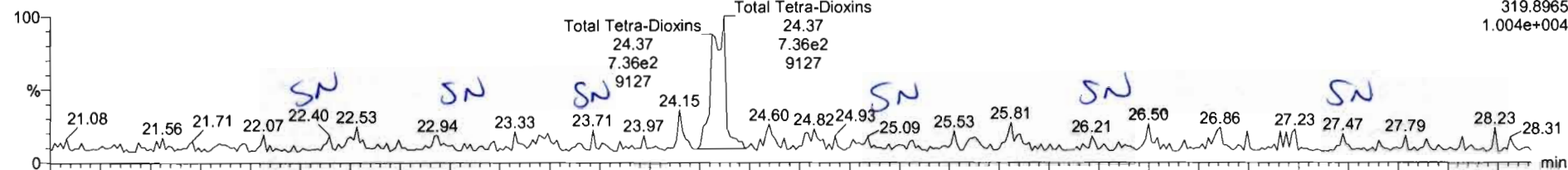
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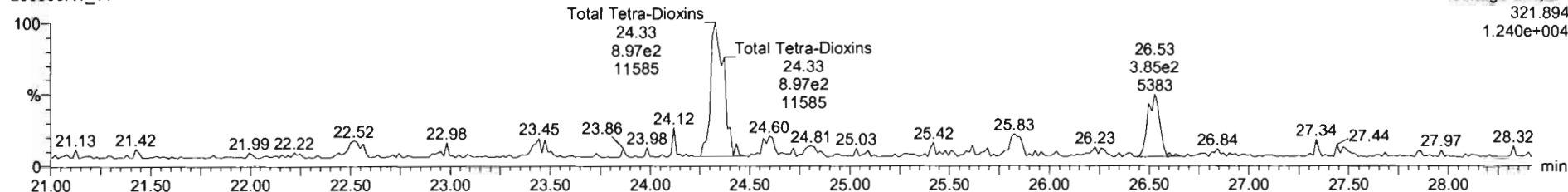
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2,3,7,8-TCDD

200603R1_11

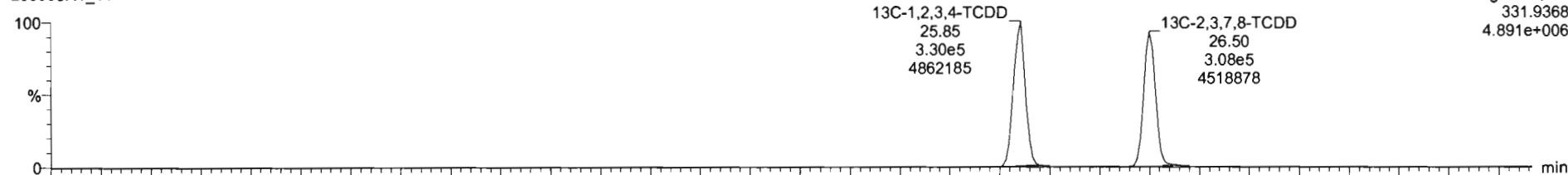


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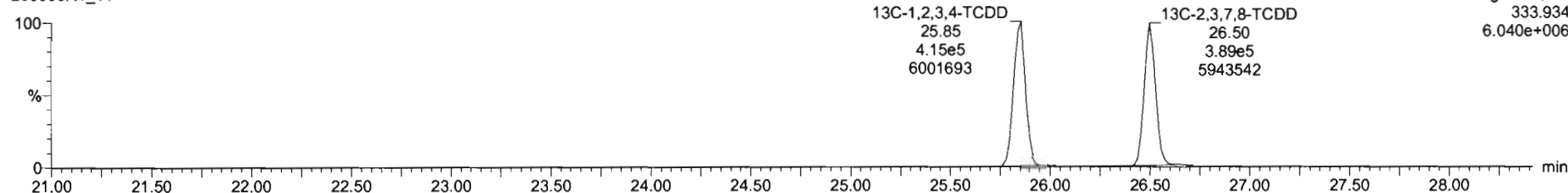


13C-2,3,7,8-TCDD

200603R1_11



200603R1_11



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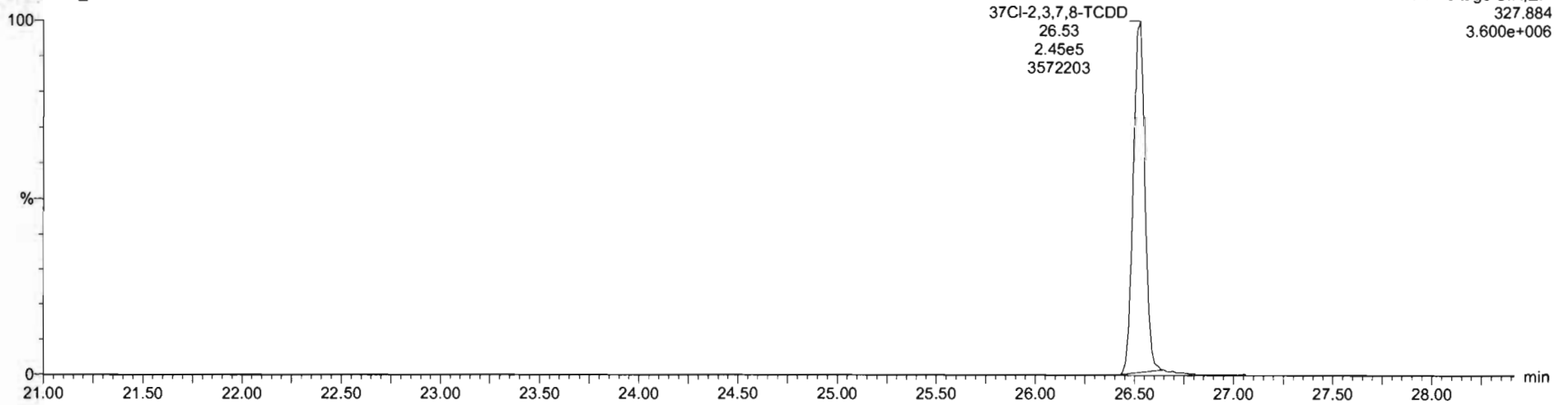
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

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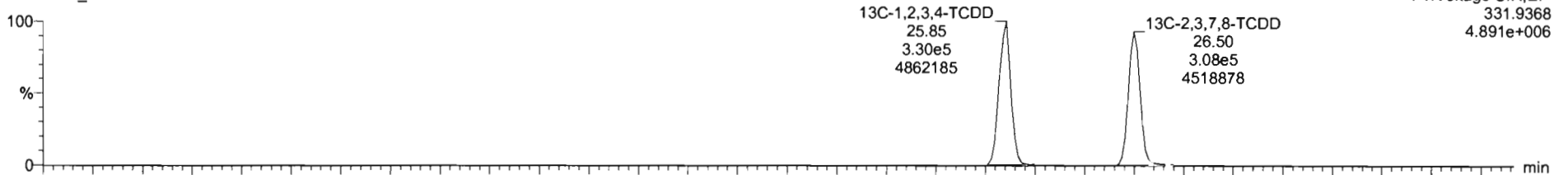
37Cl-2,3,7,8-TCDD

200603R1_11

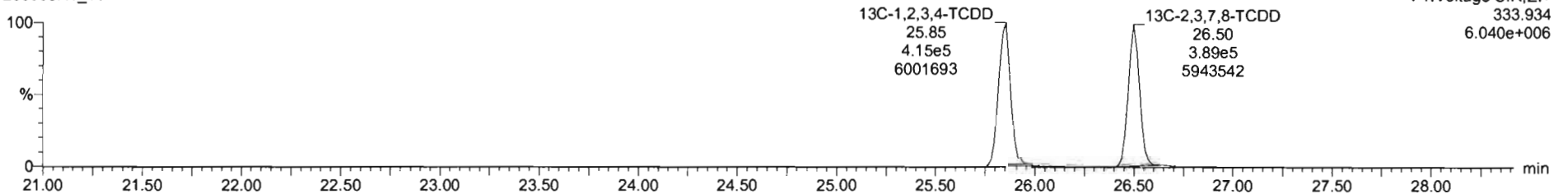


13C-1,2,3,4-TCDD

200603R1_11



200603R1_11



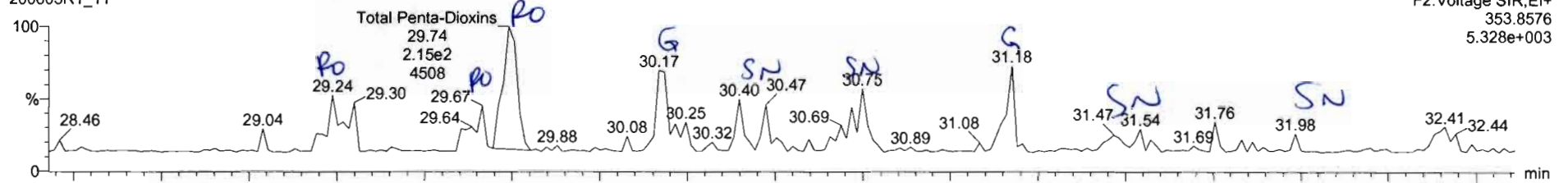
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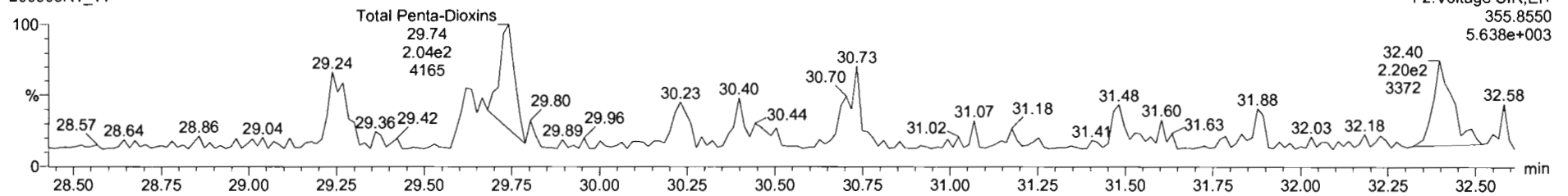
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1,2,3,7,8-PeCDD

200603R1_11

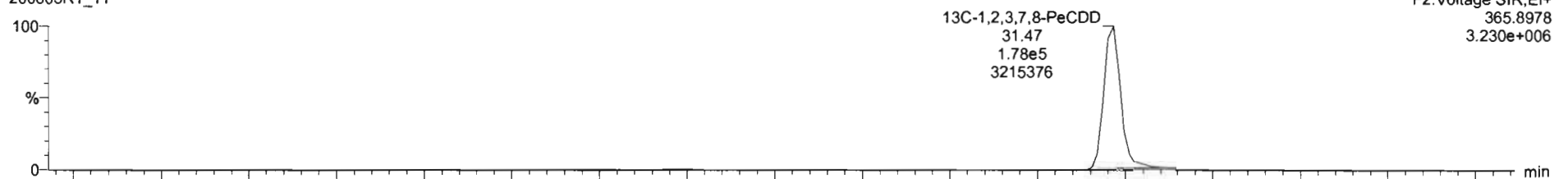


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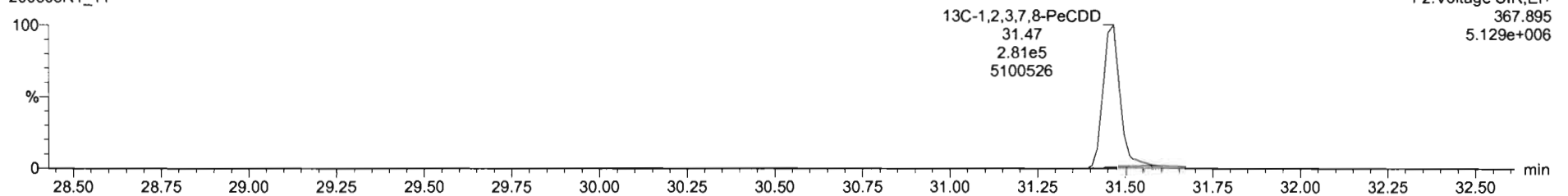


13C-1,2,3,7,8-PeCDD

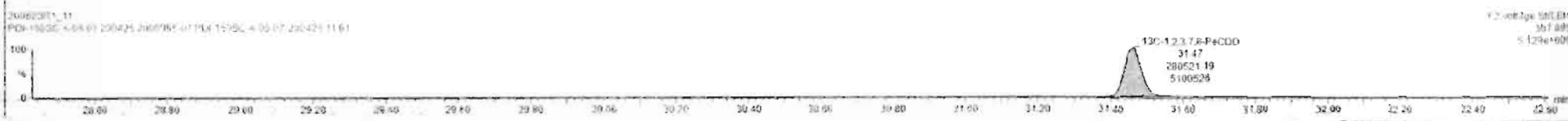
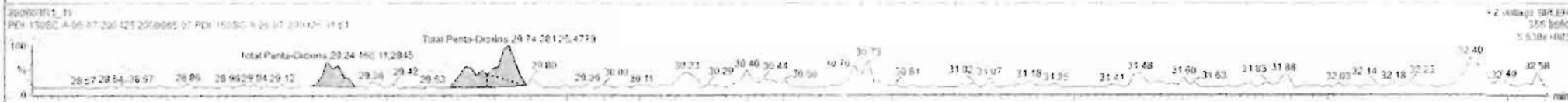
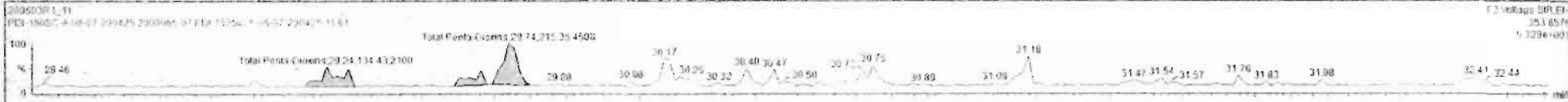
200603R1_11



200603R1_11



#	Name	Resp	RA	RF	RIF	Subst	RT	RIF	Conc	%Rec	DL	EWPC
29	130-1,2,3,4,6-PeCDD	1.0000	0.51	NO	1.0000	10.221	14.36	1.000	186	100	0.700	0.11
29	Total Penta-Dioxins				0.0000	10.221			0.510		0.210	0.11
30	130-Penta-Dioxins				0.0000	10.221			0.300		0.051	0.10
41	Total Hexa-Dioxins				0.0000	10.221			0.000		0.132	0.10
42	Total Hepta-Dioxins				0.0000	10.221			1.13		0.420	0.10
43	Total Toxic Furans				0.0000	10.221			0.153		0.0500	0.10
44	Total Toxic Penta-Furans				0.0000	10.221			1.37		0.0240	0.10
45	Total Penta-Furans				0.0000	10.221			0.165		0.0814	0.10
46	Total Hexa-Furans				0.0000	10.221			1.05		0.0706	0.10
47	Total Toxic Furans				0.0000	10.221			1.94		0.100	0.10
48	PK1											
49	PK2											
50	PK3											
51	PK4											
52	PK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



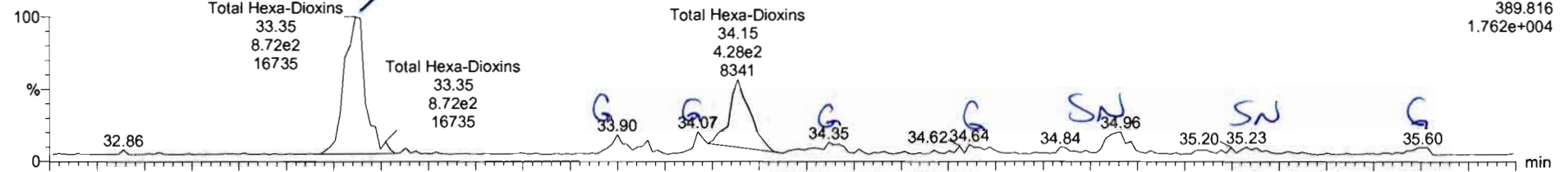
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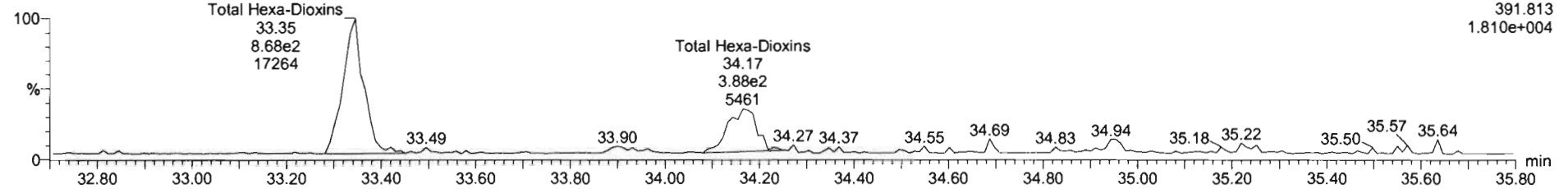
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1,2,3,4,7,8-HxCDD

200603R1_11

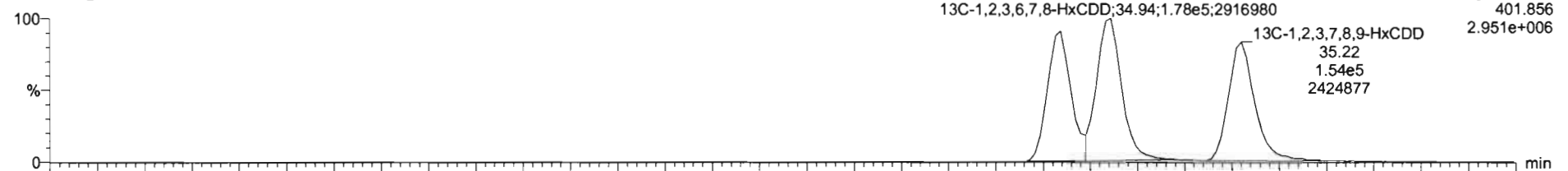


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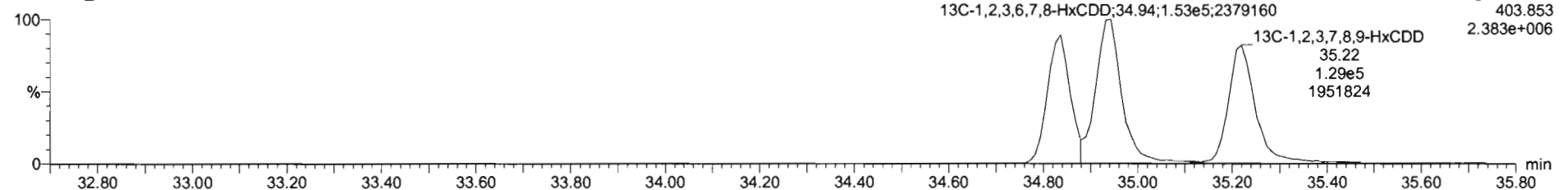


13C-1,2,3,4,7,8-HxCDD

200603R1_11



200603R1_11



Comp	Resp	RA	Qty	RRF	Volud	RT	RRT	Conc	%Rec	DL	EMPC
35	13C-1,2,3,4,6-Semi-CP	0.164	0.51	NO	1.000	10.221	34.96	1.000	100	0.700	
36	Total Hexa-Chlorins				0.51	10.221		0.510		0.351	0.51
41	Total Hexa-Chlorins				0.0025	10.221		1.04		0.152	1.04
42	Total Hepta-Chlorins				0.903	10.221		13.5		0.420	11.5
43	Total Tetra-Furans				0.7510	10.221		0.153		0.062	0.150
44	1st Func. Penta-Furans				0.0025	10.221		1.37		0.0240	1.37
45	Total Penta-Furans				0.0025	10.221		0.160		0.0014	0.270
46	Total Hexa-Furans				0.9341	10.221		6.20		0.0700	1.00
47	Total Hepta-Furans				0.0714	10.221		1.04		0.100	3.77
48	DFK1										
49	DFK2										
50	DFK3										
51	DFK4										
52	DFK5										
53	DFE1										
54	DFE2										
55	DFE3										
56	DFE4										
57	DFE5										
58	DFE6										



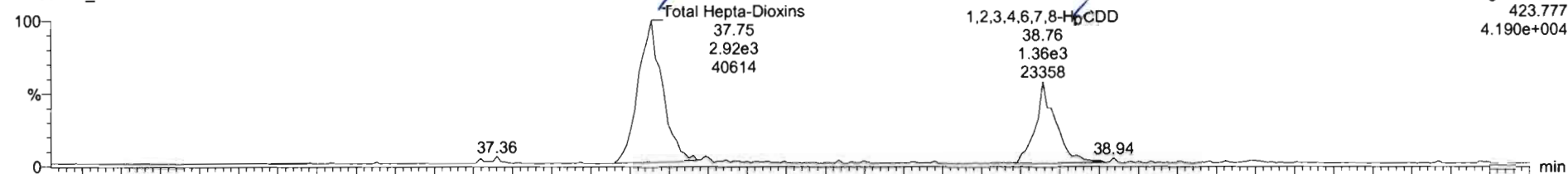
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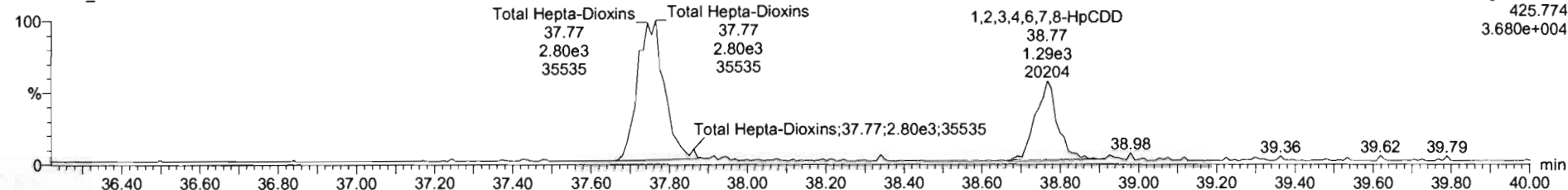
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1,2,3,4,6,7,8-HpCDD

200603R1_11

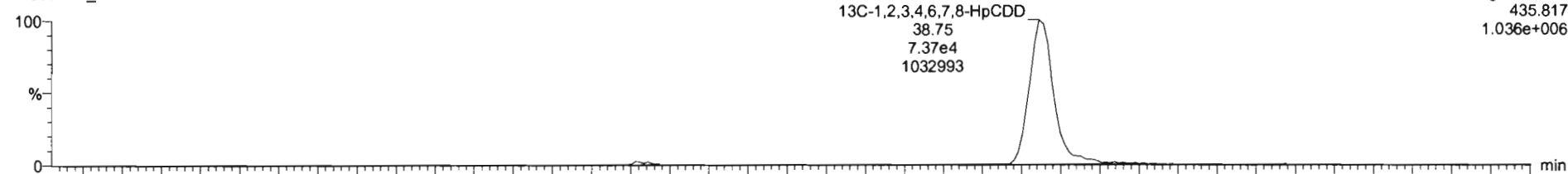


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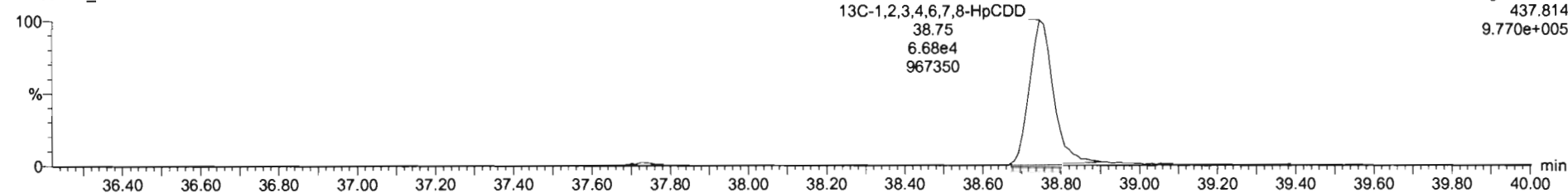


13C-1,2,3,4,6,7,8-HpCDD

200603R1_11



200603R1_11



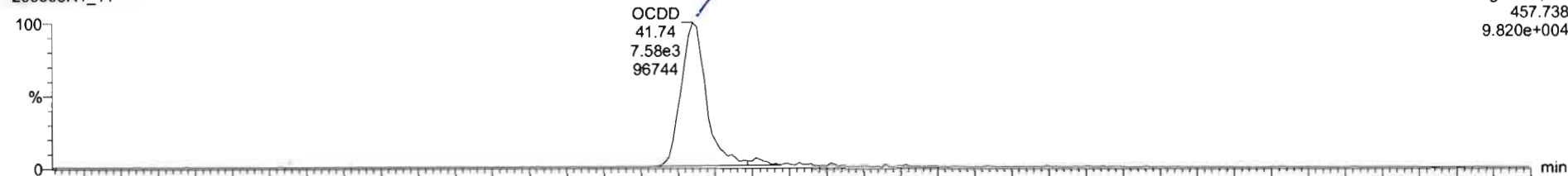
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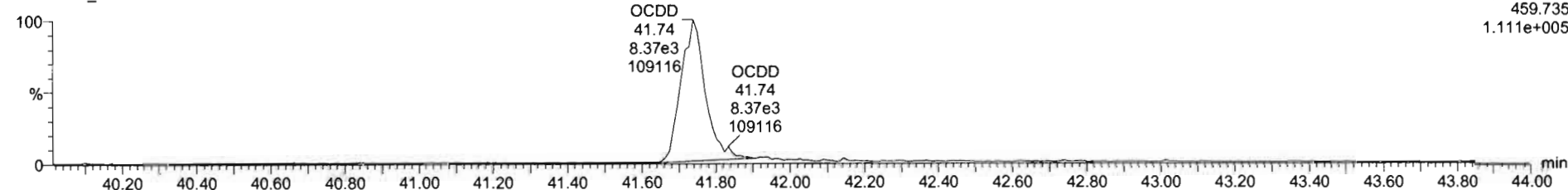
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OCDD

200603R1_11

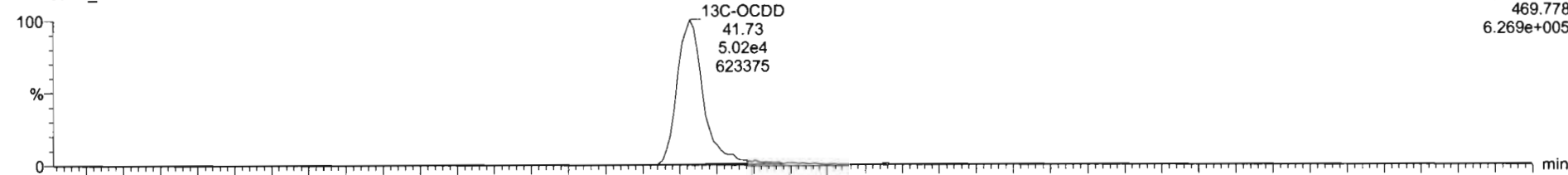


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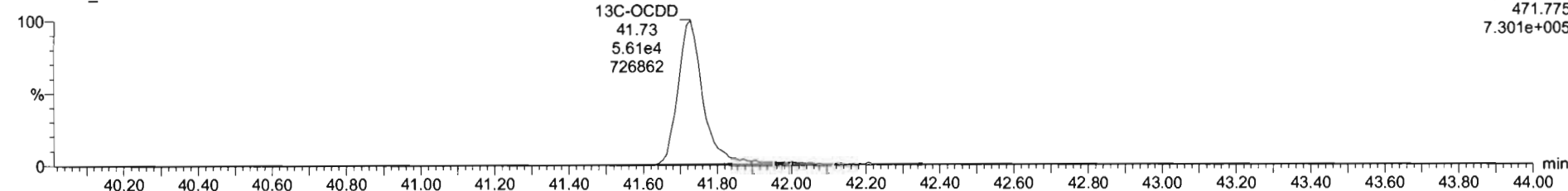


13C-OCDD

200603R1_11



200603R1_11



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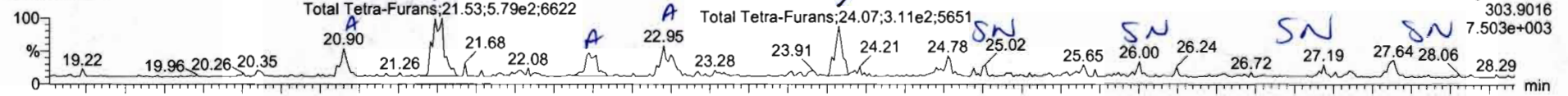
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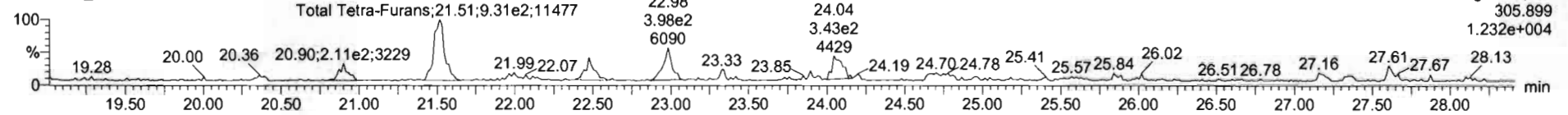
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2,3,7,8-TCDF

200603R1_11

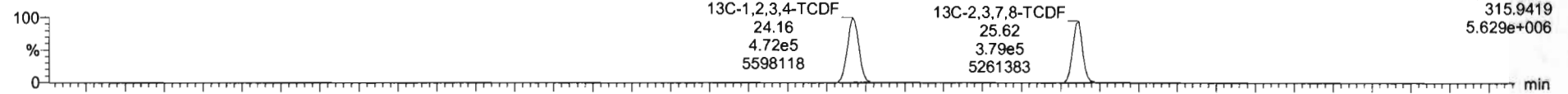


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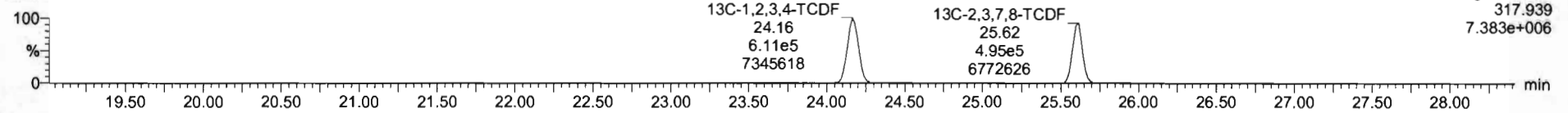


13C-2,3,7,8-TCDF

200603R1_11

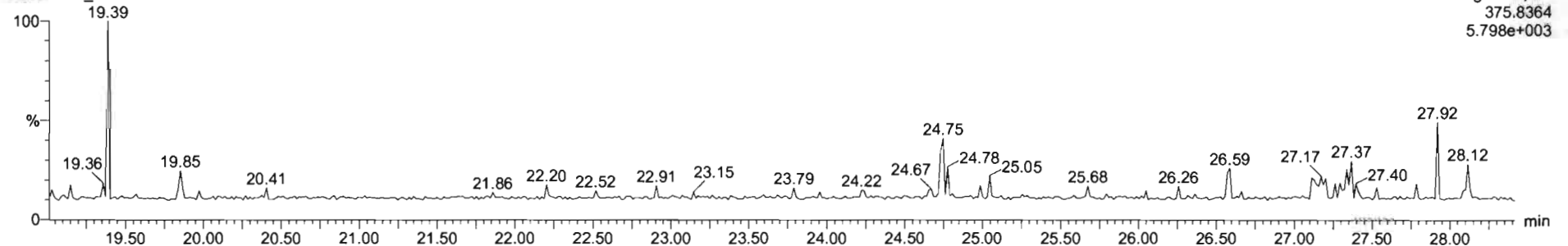


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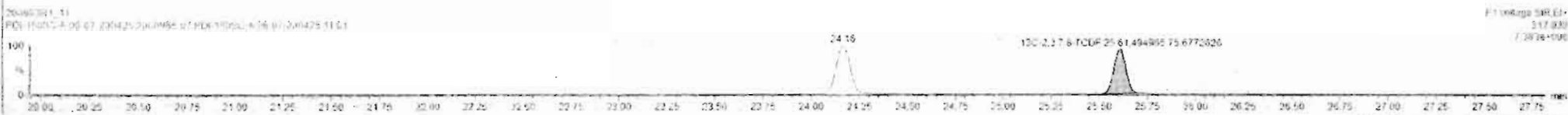
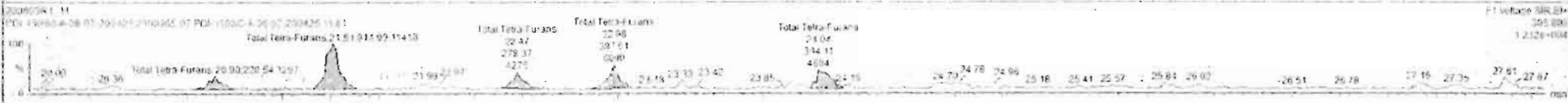
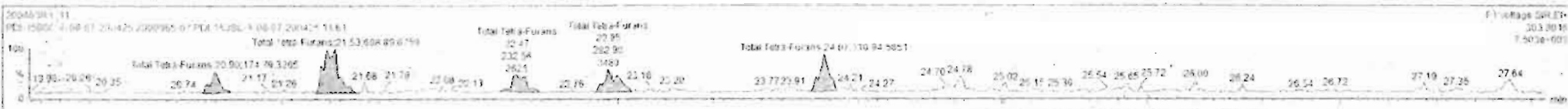


DPE1

200603R1_11



Peak	Area	Height	W	Area%	Height%	W	Area%	Height%	W	Area%	Height%
38	15.12	3.44	0.0000	0.0000	10.0000	34.36	0.0000	0.0000	100	100	100
39	Total Tetra Furans	0.8925	10.201	0.0000	10.201	24.36	0.0000	0.0000	100	100	100
40	Total Penta Furans	0.8925	10.201	0.0000	10.201	24.36	0.0000	0.0000	100	100	100
41	Total Hexa Furans	0.8925	10.201	0.0000	10.201	24.36	0.0000	0.0000	100	100	100
42	Total Hepta Furans	0.8925	10.201	0.0000	10.201	24.36	0.0000	0.0000	100	100	100
43	Total Tetra Furans	0.8925	10.201	0.0000	10.201	24.36	0.0000	0.0000	100	100	100
44	Total Penta Furans	0.8925	10.201	0.0000	10.201	24.36	0.0000	0.0000	100	100	100
45	Total Hexa Furans	0.8925	10.201	0.0000	10.201	24.36	0.0000	0.0000	100	100	100
46	Total Hepta Furans	0.8925	10.201	0.0000	10.201	24.36	0.0000	0.0000	100	100	100
47	Total Tetra Furans	0.8925	10.201	0.0000	10.201	24.36	0.0000	0.0000	100	100	100
48	THF										
49	THF										
50	THF										
51	THF										
52	THF										
53	THF										
54	THF										
55	THF										
56	THF										



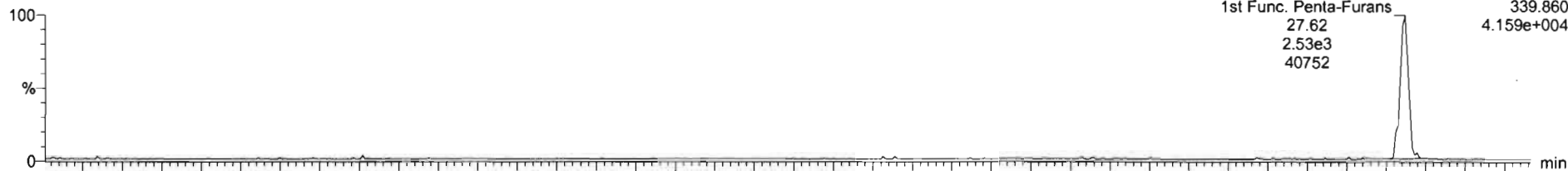
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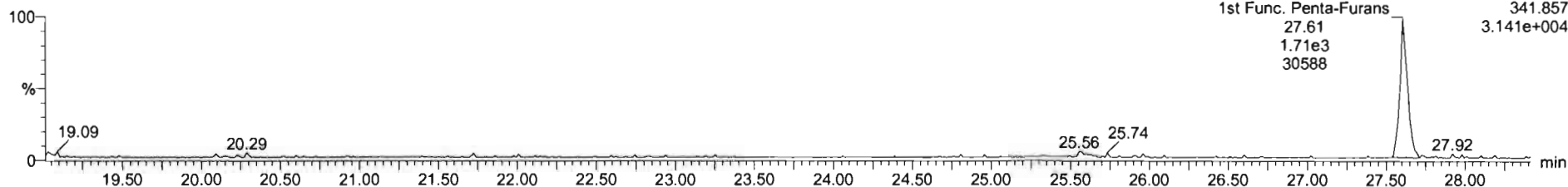
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1st Func. Penta-Furans

200603R1_11

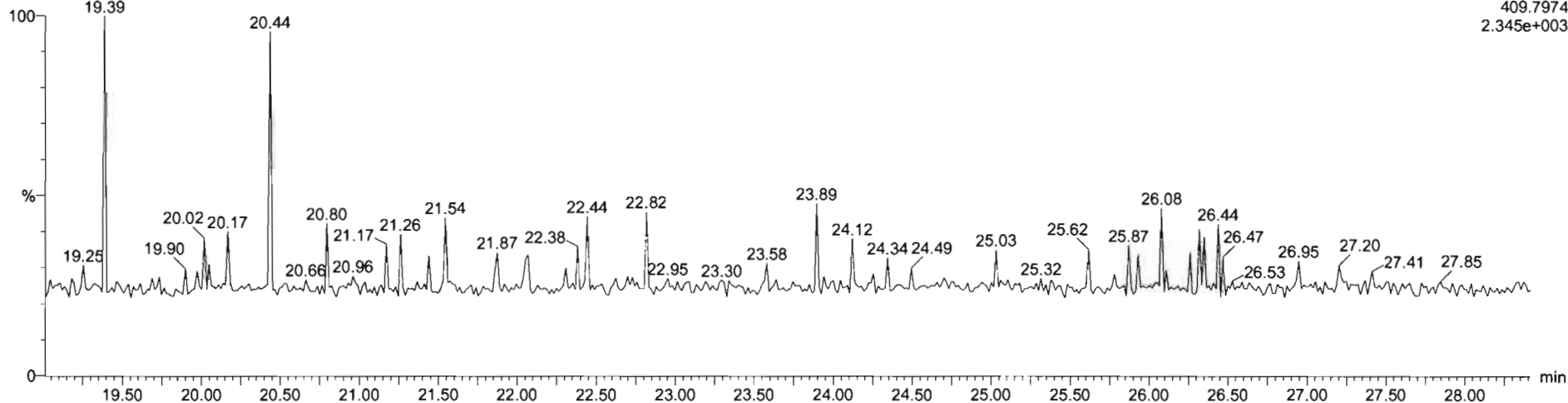


200603R1_11



DPE6

200603R1_11

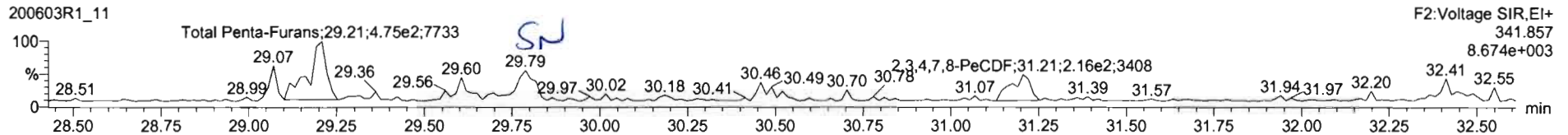
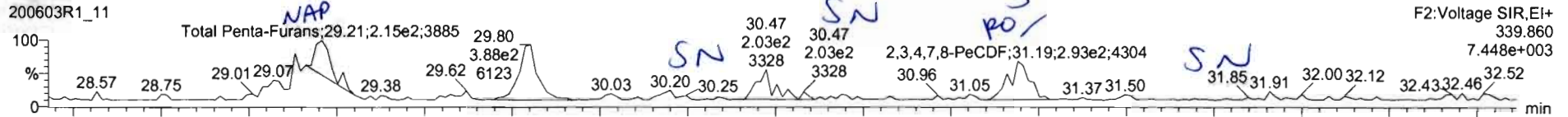


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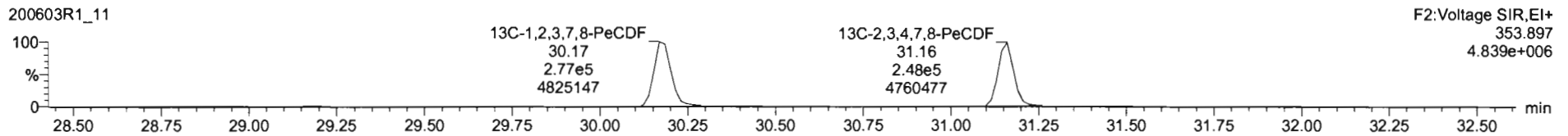
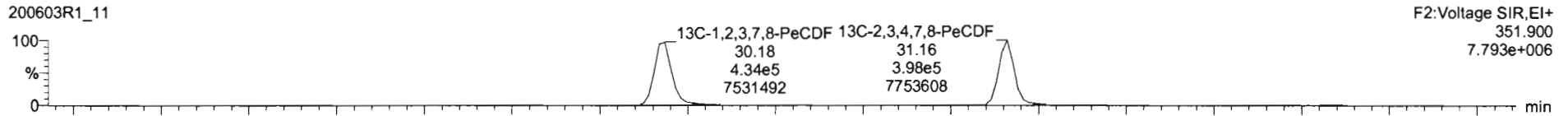
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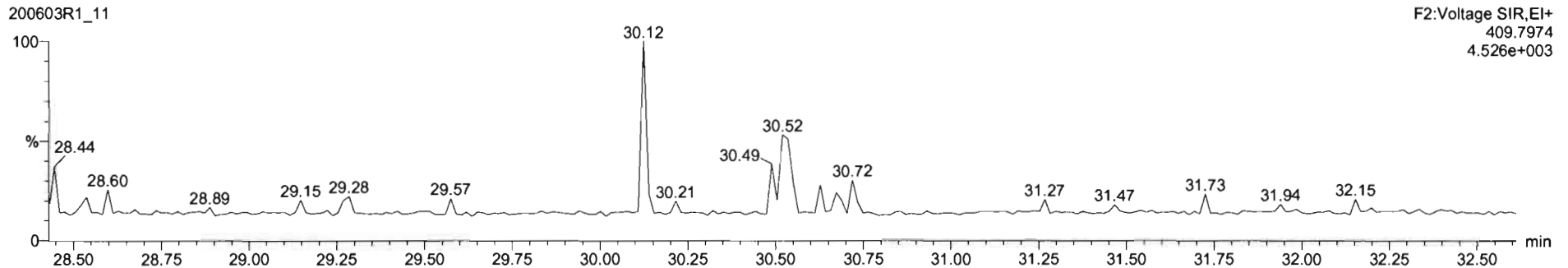
1,2,3,7,8-PeCDF



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

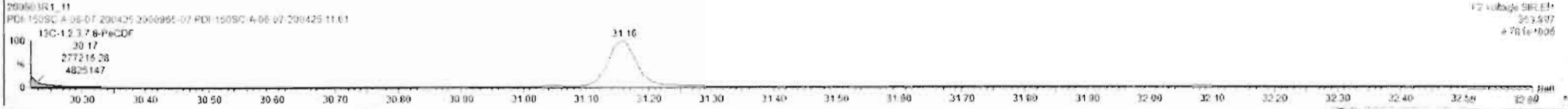
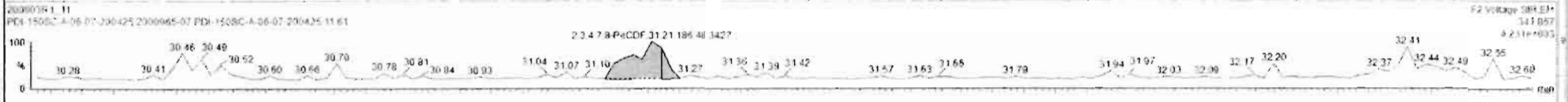
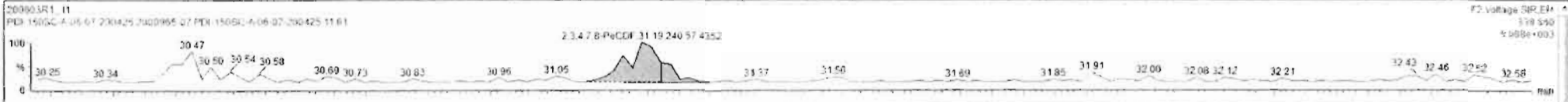


DPE2



K1	Name	Resp	RA	ny	RRF	width	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.6525	19.221			0.000		0.061A	0.155
46	Total Hexa-Furans				0.9341	19.221			2.14		0.0706	2.14

K1	Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1	2,3,4,7,8-PeCDF	31.15	2.406e2	1.865e2	1.25	YES	0.12622	0.00006
2	Total Penta-Furans	31.22	6.116e1	3.470e1	1.76	NO	0.030991	0.00006

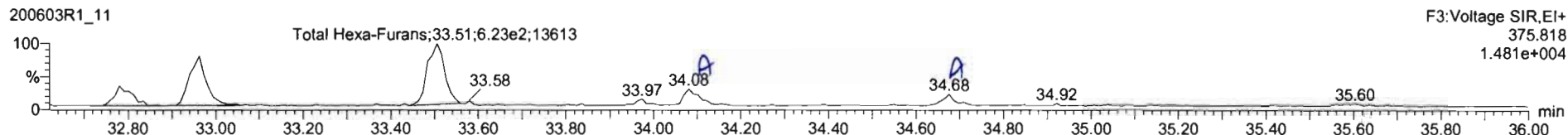
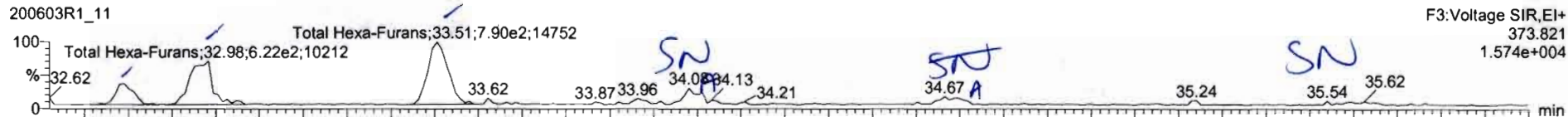


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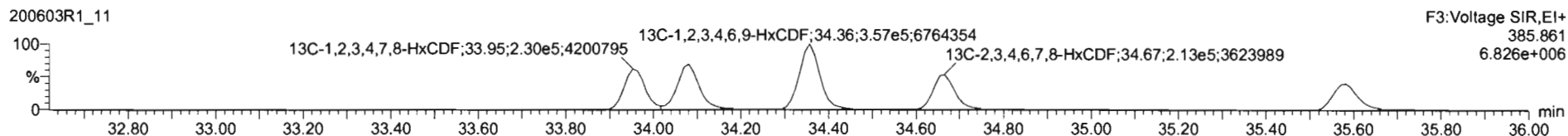
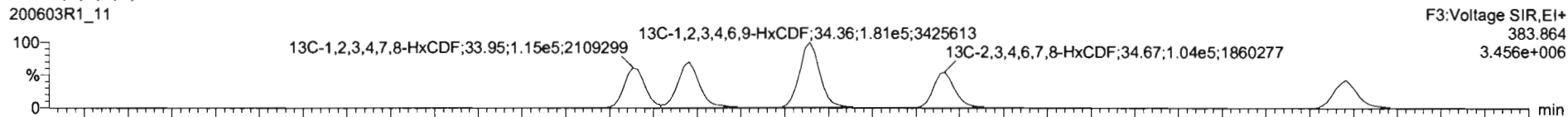
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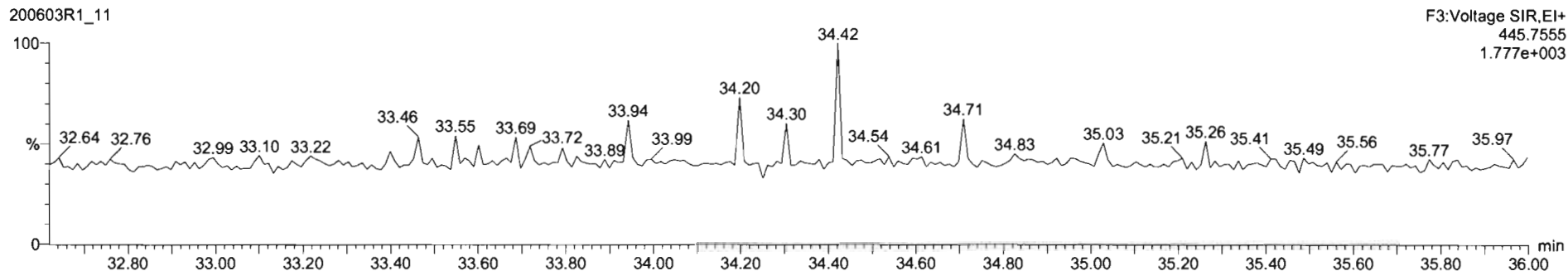
1,2,3,4,7,8-HxCDF



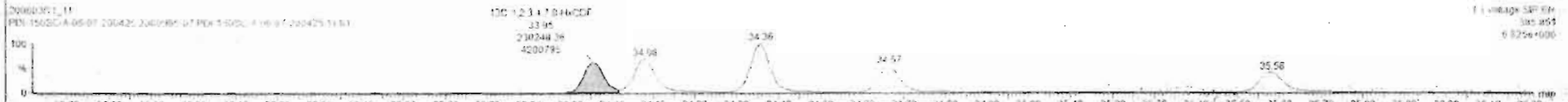
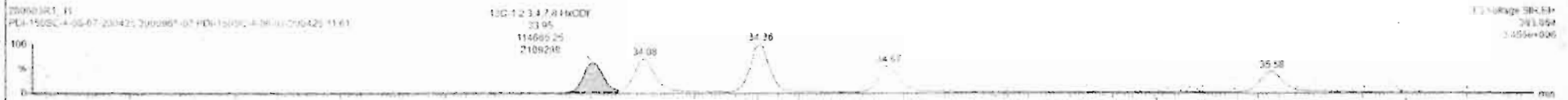
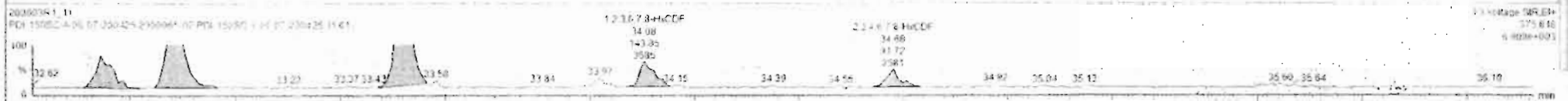
13C-1,2,3,4,7,8-HxCDF



DPE3



ID	Name	Keep	RA	dy	RRP	Subst	RT	RRP	Conc	Unit	GL	RRP
38	13C-1,2,3,4,6,8-HxCDF	% Mass	0.01	100	1.0000	10.221	34.35	1.000	196	100	0.700	
39	Total Tetra-Dioxin				0.4833	10.221			0.116		0.116	0.116
40	Total Penta-Dioxin				0.0301	10.221			7.000		0.031	0.031
41	Total Hexa-Dioxin				0.0021	10.221			1.94		0.122	0.122
42	Total Triota-Dioxina				0.0035	10.221			12.5		0.420	0.420
43	Total Tetra-Furans				0.7510	10.221			1.14		2.000	1.14
44	1st Func. Furans				0.2645	10.221			1.77		0.0240	0.0240
45	Total Penta-Furans				0.0025	10.221			0.140		0.0814	0.107
46	Total Hexa-Furans				0.0041	10.221			2.14		0.0700	0.114
47	Total Hepta-Furans				0.0014	10.221			1.96		0.000	0.000
48	PK1											
49	PK2											
50	PK3											
51	PK4											
52	PK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



Dataset: Untitled

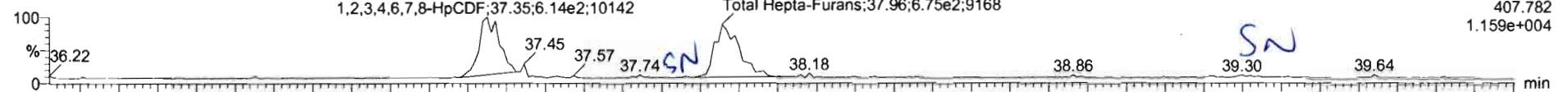
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

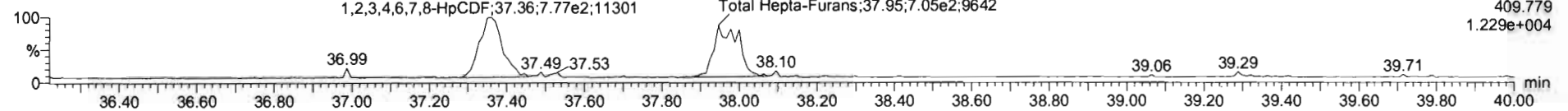
Name: 200603R1_11, Date: 03-Jun-2020, Time: 15:52:46, ID: 2000965-07 PDI-150SC-A-06-07-200425 11.61, Description: PDI-150SC-A-06-07-200425

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

200603R1_11

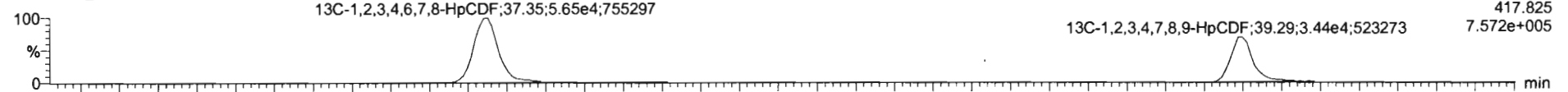


200603R1_11

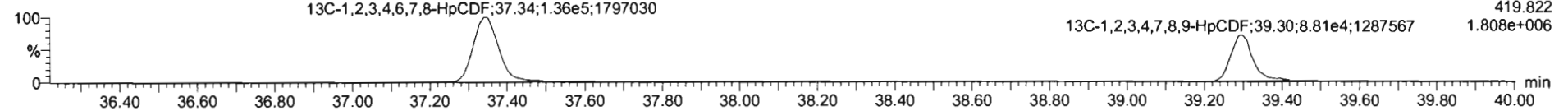


13C-1,2,3,4,6,7,8-HpCDF

200603R1_11

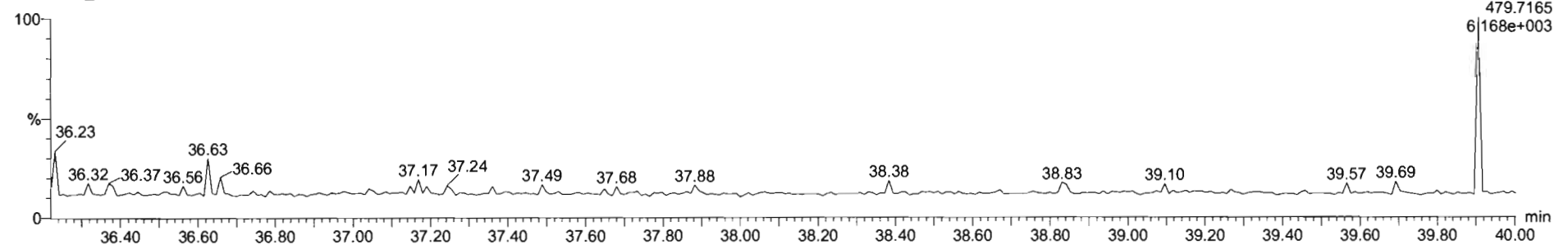


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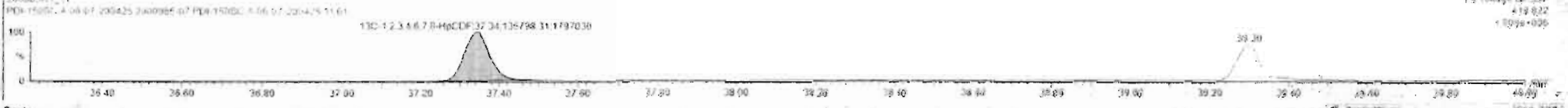
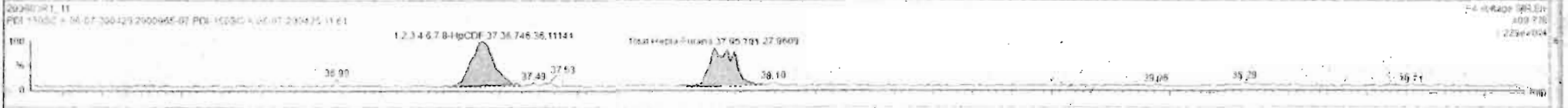
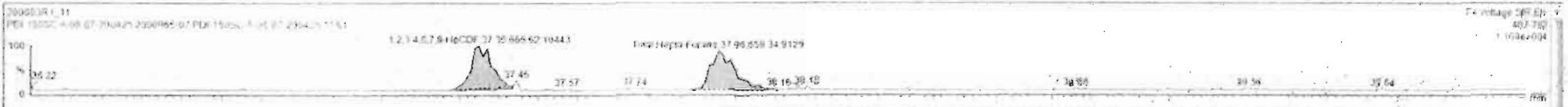


DPE4

200603R1_11



Row	Name	Resp	RA	ry	Rst	width	RT	RR	Comp	%Rec	EL	IMP
38	13C-1,2,3,4,6,8-HxCDF	5.38e5	0.51	NO	1.8905	10.221	34.36	1.000	190	100	0.700	
39	Total Tetra-Furans				0.925	10.221			0.516		0.110	0.110
40	Total Penta-Furans				0.9029	10.221			0.200		0.0511	0.43
41	Total Hexa-Furans				0.0927	10.221			1.94		0.132	1.34
42	Total Hepta-Furans				0.0825	10.221			1.93		0.420	1.11
43	Total Tetra-Furans				0.7510	10.221			1.12		0.0963	1.10
44	1st Func. Penta-Furans				0.8925	10.221			1.37		0.0240	1.37
45	Total Penta-Furans				0.8927	10.221			0.165		0.0814	0.165
46	Total Hexa-Furans				0.6241	10.221			2.14		0.0708	2.10
47	Total Hepta-Furans				0.6734	10.221			4.50		0.129	2.50
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DFE1											
54	DFE2											
55	DFE3											
56	DFE4											
57	DFE5											
58	DFE6											

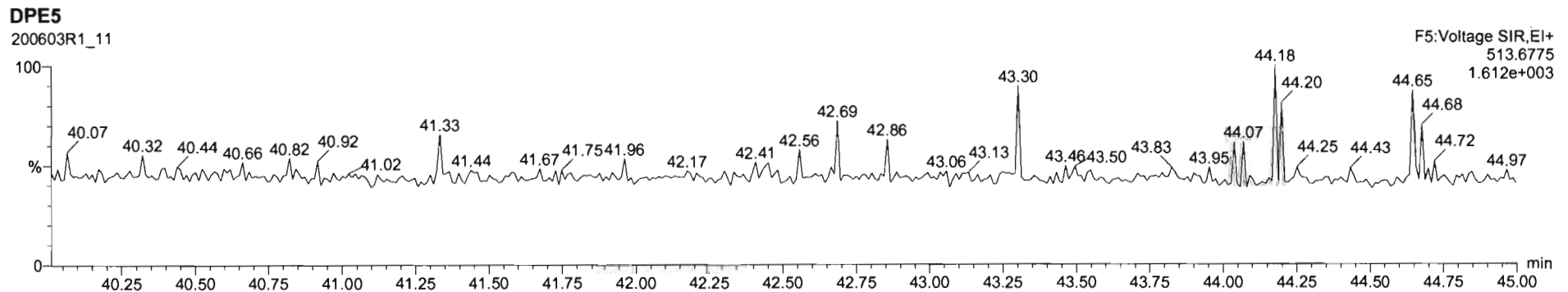
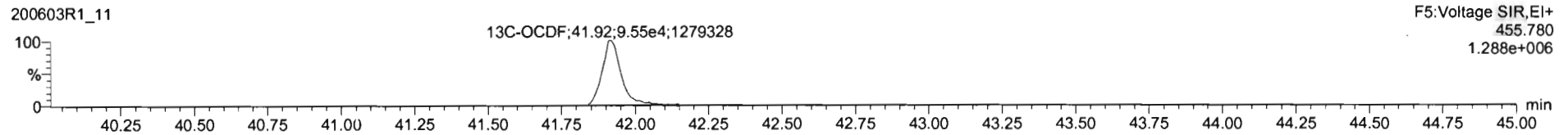
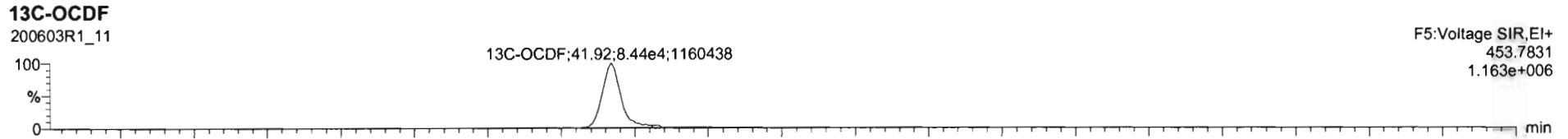
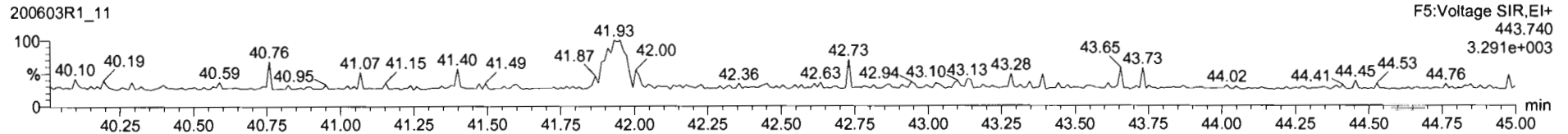
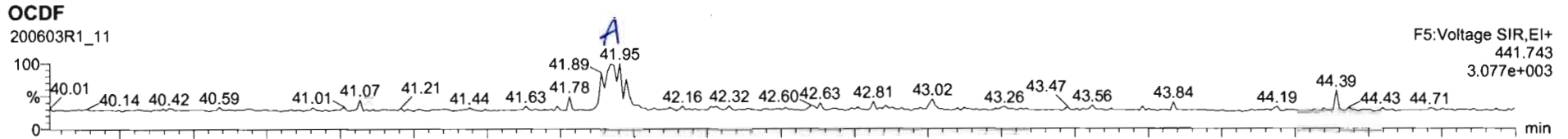


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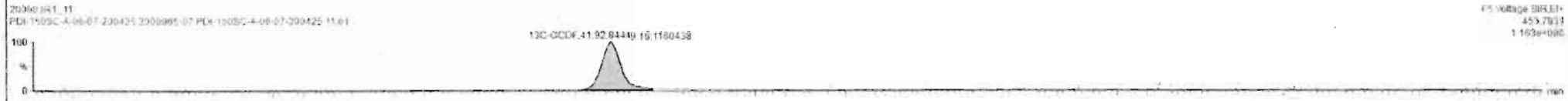
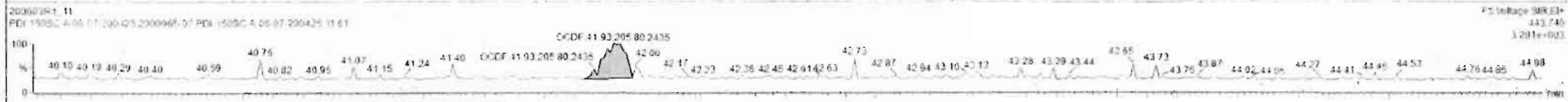
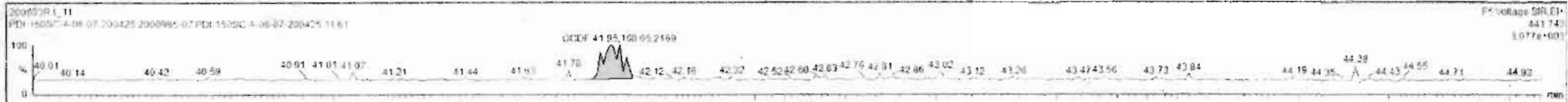
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_11, Date: 03-Jun-2020, Time: 15:52:46, ID: 2000965-07 PDI-150SC-A-06-07-200425 11.61, Description: PDI-150SC-A-06-07-200425



#	Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Cont	%Rec	DL	ENFC
1	2,3,7,8-TCDF			NO	0.6963	10.221					0.119	
2	1,2,3,7,8-PeCDD			NO	0.9081	10.221					0.0276	
3	1,2,3,4,7,8-HxCDD			NO	1.9334	10.221					0.110	
4	1,2,3,6,7,8-HxCDD			NO	0.8923	10.221					0.116	
5	1,2,3,7,8,9-HxCDF			NO	0.8869	10.221					0.145	
6	1,2,3,4,6,7,8-HpCDD	2.56e3	1.05	NO	0.8839	10.221	35.76	1.000	4.28		0.425	4.28
7	OCDD	1.69e4	0.91	NO	0.9136	10.221	41.74	1.000	-64.3		0.877	64.3
8	2,3,7,8-TCDF			NO	0.7510	10.221					0.0683	
9	1,2,3,7,8-PeCDF			NO	0.8925	10.221					0.0821	
10	2,3,4,7,8-PeCDF	5.09e2	1.35	NO	0.9348	10.221	31.19	1.001	0.185		0.0799	0.185
11	1,2,3,4,7,8-HxCDF			NO	0.8845	10.221					0.0630	
12	1,2,3,6,7,8-HxCDF			NO	0.8862	10.221					0.0601	
13	2,3,4,6,7,8-HxCDF			NO	0.9341	10.221					0.0720	
14	1,2,3,7,8,9-HxCDF			NO	0.8707	10.221					0.102	
15	1,2,3,4,6,7,8-HpCDF	1.39e3	0.79	YES	0.8734	10.221	37.35	1.000	1.62		0.185	1.40
16	1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.221					0.196	
17	OCDF	3.66e2	0.70	NO	0.8985	10.221	41.95	1.001	0.360		0.303	0.662
18	1,3C-2,2,7,8-TCDF	6.97e5	0.75	NO	1.1583	10.221	26.50	1.025	150	39.5	5.134	
19	1,3C-1,2,3,7,8-PeCDF	4.96e6	0.83	NO	0.8490	10.221	31.47	1.217	142	72.4	0.279	
20	1,3C-1,2,3,4,7,8-HxCDD	2.89e5	1.32	NO	0.7790	10.221	34.84	1.014	125	64.1	0.541	
21	1,3C-1,2,3,6,7,8-HxCDD	0.32e5	1.17	NO	1.0187	10.221	34.94	1.037	119	50.4	0.414	



Dataset: Untitled

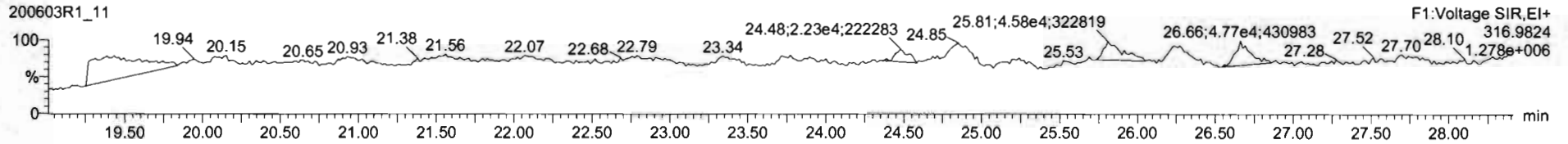
Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_11, Date: 03-Jun-2020, Time: 15:52:46, ID: 2000965-07 PDI-150SC-A-06-07-200425 11.61, Description: PDI-150SC-A-06-07-200425

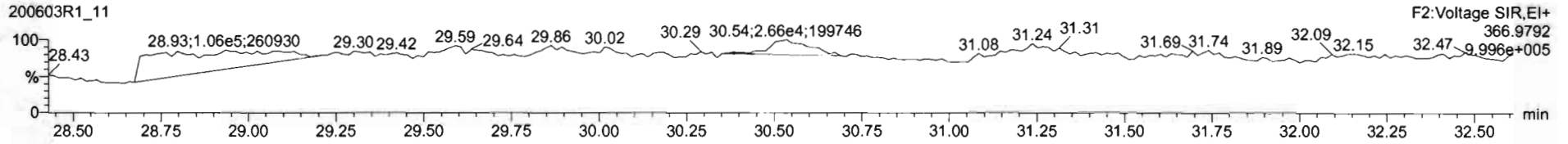
PFK1

200603R1_11



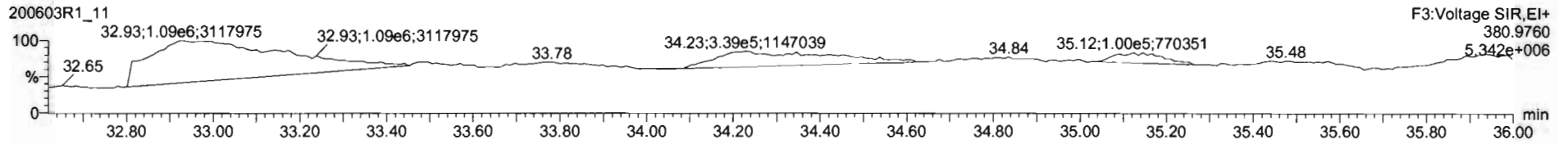
PFK2

200603R1_11



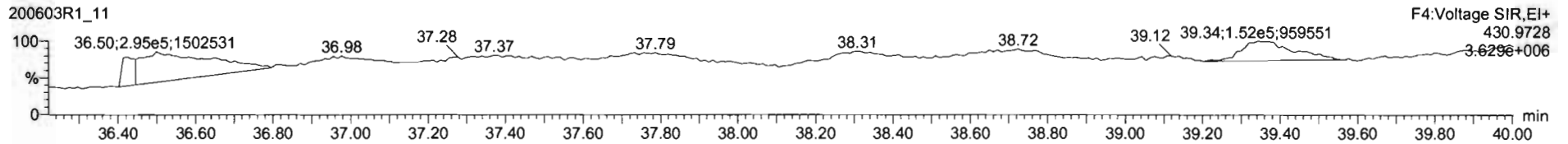
PFK3

200603R1_11



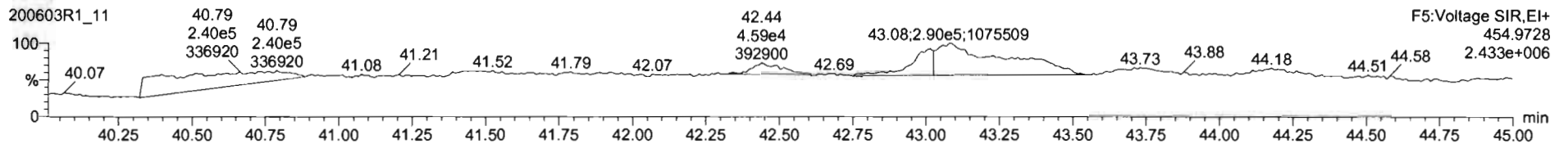
PFK4

200603R1_11



PFK5

200603R1_11



Dataset: U:\VG12.PRO\Results\200603R1\200603R1-12.qld

Last Altered: Thursday, June 04, 2020 14:42:30 Pacific Daylight Time

Printed: Thursday, June 04, 2020 14:45:05 Pacific Daylight Time

GRB 06/04/2020

CT06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_12, Date: 03-Jun-2020, Time: 16:38:58, ID: 2000965-08 PDI-150SC-A-07-08-200425 12.66, Description: PDI-150SC-A-07-08-200425

#	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	0.888	10.045	26.516		1.001				0.0607	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.045	31.473		1.001				0.0739	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.045	34.835		1.000				0.0809	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.045	34.921		1.000				0.0854	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.045	35.220		1.000				0.0985	
6	6 1,2,3,4,6,7,8-HpCDD	1.78e2	1.08	NO	0.864	10.045	38.746	38.74	1.000	1.000	0.17566		0.119	0.176
7	7 OCDD	3.49e3	1.00	NO	0.914	10.045	41.716	41.74	1.000	1.001	3.9453		0.287	3.95
8	8 2,3,7,8-TCDF			NO	0.751	10.045	25.627		1.001				0.0375	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.045	30.190		1.001				0.0712	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.045	31.177		1.001				0.0646	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.045	33.941		1.000				0.0530	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.045	34.079		1.000				0.0494	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.045	34.679		1.001				0.0526	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.045	35.560		1.000				0.0801	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.045	37.365		1.001				0.0616	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.045	39.277		1.000				0.0691	
17	17 OCDF			NO	0.806	10.045	41.908		1.000				0.112	
18	18 13C-2,3,7,8-TCDD	6.95e5	0.79	NO	1.16	10.045	26.522	26.48	1.026	1.025	144.05	72.4	0.158	
19	19 13C-1,2,3,7,8-PeCDD	4.83e5	0.63	NO	0.849	10.045	31.711	31.45	1.227	1.217	136.30	68.5	0.275	
20	20 13C-1,2,3,4,7,8-HxCDD	3.21e5	1.28	NO	0.779	10.045	34.830	34.83	1.014	1.014	137.04	68.8	0.473	
21	21 13C-1,2,3,6,7,8-HxCDD	3.98e5	1.27	NO	1.02	10.045	34.944	34.92	1.017	1.017	130.09	65.3	0.363	
22	22 13C-1,2,3,7,8,9-HxCDD	3.63e5	1.26	NO	0.903	10.045	35.215	35.21	1.025	1.025	133.66	67.1	0.408	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.34e5	1.02	NO	0.689	10.045	38.739	38.73	1.128	1.128	112.84	56.7	0.406	
24	24 13C-OCDD	3.85e5	0.94	NO	0.652	10.045	41.761	41.72	1.216	1.215	196.41	49.3	0.434	
25	25 13C-2,3,7,8-TCDF	9.18e5	0.77	NO	1.06	10.045	25.564	25.60	0.989	0.991	144.11	72.4	0.247	
26	26 13C-1,2,3,7,8-PeCDF	7.33e5	1.58	NO	0.838	10.045	30.093	30.17	1.165	1.168	145.48	73.1	0.424	
27	27 13C-2,3,4,7,8-PeCDF	7.17e5	1.60	NO	0.817	10.045	31.047	31.15	1.202	1.205	145.96	73.3	0.435	
28	28 13C-1,2,3,4,7,8-HxCDF	4.12e5	0.51	NO	1.01	10.045	33.961	33.94	0.989	0.988	135.99	68.3	0.771	
29	29 13C-1,2,3,6,7,8-HxCDF	4.83e5	0.51	NO	1.17	10.045	34.085	34.07	0.992	0.992	137.58	69.1	0.665	
30	30 13C-2,3,4,6,7,8-HxCDF	4.42e5	0.51	NO	1.02	10.045	34.659	34.64	1.009	1.009	144.02	72.3	0.760	
31	31 13C-1,2,3,7,8,9-HxCDF	3.46e5	0.51	NO	0.860	10.045	35.558	35.56	1.035	1.035	134.00	67.3	0.903	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-12.qld

Last Altered: Thursday, June 04, 2020 14:42:30 Pacific Daylight Time

Printed: Thursday, June 04, 2020 14:45:05 Pacific Daylight Time

Name: 200603R1_12, Date: 03-Jun-2020, Time: 16:38:58, ID: 2000965-08 PDI-150SC-A-07-08-200425 12.66, Description: PDI-150SC-A-07-08-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.80e5	0.40	NO	0.774	10.045	37.307	37.33	1.086	1.087	120.33	60.4	0.590	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.88e5	0.42	NO	0.521	10.045	39.336	39.28	1.145	1.144	119.99	60.3	0.877	
34	34 13C-OCDF	4.49e5	0.92	NO	0.746	10.045	41.933	41.91	1.221	1.220	200.29	50.3	0.314	
35	35 37Cl-2,3,7,8-TCDD	3.47e5			1.04	10.045	26.553	26.51	1.028	1.026	80.145	101	0.0507	
36	36 13C-1,2,3,4-TCDD	8.31e5	0.80	NO	1.00	10.045	25.890	25.84	1.000	1.000	199.10	100	0.183	
37	37 13C-1,2,3,4-TCDF	1.20e6	0.78	NO	1.00	10.045	24.360	24.16	1.000	1.000	199.10	100	0.262	
38	38 13C-1,2,3,4,6,9-HxCDF	5.98e5	0.51	NO	1.00	10.045	34.420	34.35	1.000	1.000	199.10	100	0.777	
39	39 Total Tetra-Dioxins				0.888	10.045	24.620		0.000				0.0351	
40	40 Total Penta-Dioxins				0.908	10.045	29.960		0.000				0.0362	
41	41 Total Hexa-Dioxins				0.892	10.045	33.635		0.000		0.00000		0.0593	0.0763
42	42 Total Hepta-Dioxins				0.864	10.045	37.640		0.000		0.17566		0.119	0.469
43	43 Total Tetra-Furans				0.751	10.045	23.610		0.000				0.0156	
44	44 1st Func. Penta-Furans				0.893	10.045	27.580		0.000				0.00685	
45	45 Total Penta-Furans				0.893	10.045	29.275		0.000				0.0150	
46	46 Total Hexa-Furans				0.934	10.045	33.555		0.000				0.0395	
47	47 Total Hepta-Furans				0.873	10.045	37.835		0.000				0.0391	

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Dataset: U:\VG12.PRO\Results\200603R1\200603R1-12.qld

Last Altered: Thursday, June 04, 2020 14:42:30 Pacific Daylight Time

Printed: Thursday, June 04, 2020 14:45:05 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_12, Date: 03-Jun-2020, Time: 16:38:58, ID: 2000965-08 PDI-150SC-A-07-08-200425 12.66, Description: PDI-150SC-A-07-08-200425

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	33.31	1.120e3	2.372e3	6.822e1	7.700e1	0.89	YES	0.000e0	0.00000	0.076310	0.0593

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.72	2.715e3	3.119e3	1.519e2	1.872e2	0.81	YES	0.000e0	0.00000	0.29372	0.187
2	1,2,3,4,6,7,8-HpCDD	38.74	2.409e3	1.514e3	9.258e1	8.560e1	1.08	NO	1.782e2	0.17566	0.17566	0.119

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\200603R1\200603R1-12.qld

Last Altered: Thursday, June 04, 2020 14:42:30 Pacific Daylight Time

Printed: Thursday, June 04, 2020 14:45:05 Pacific Daylight Time

Name: 200603R1_12, Date: 03-Jun-2020, Time: 16:38:58, ID: 2000965-08 PDI-150SC-A-07-08-200425 12.66, Description: PDI-150SC-A-07-08-200425

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

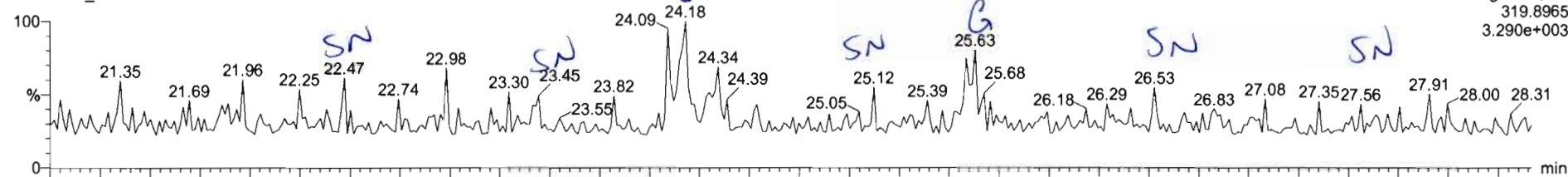
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

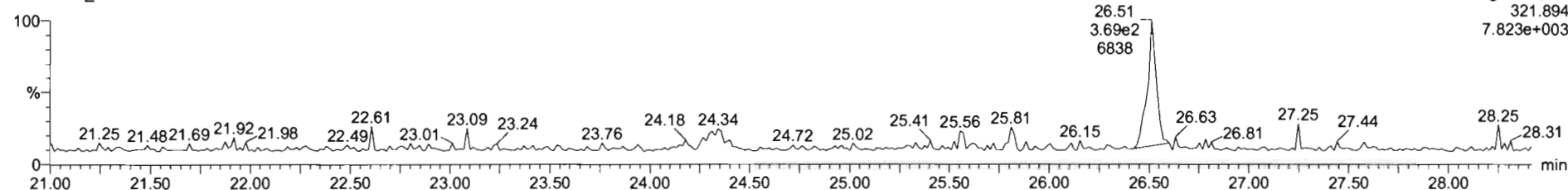
Name: 200603R1_12, Date: 03-Jun-2020, Time: 16:38:58, ID: 2000965-08 PDI-150SC-A-07-08-200425 12.66, Description: PDI-150SC-A-07-08-200425

2,3,7,8-TCDD

200603R1_12

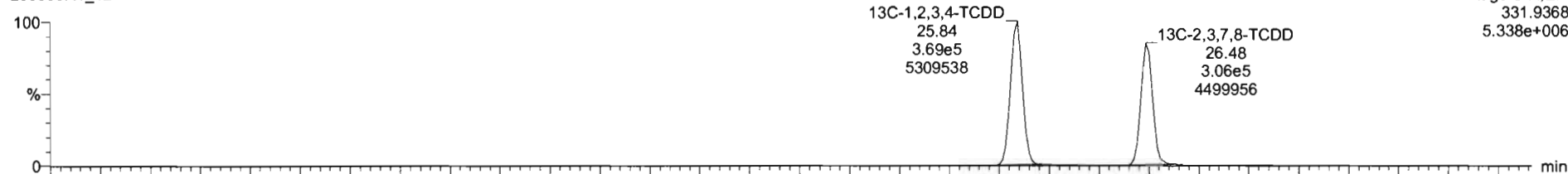


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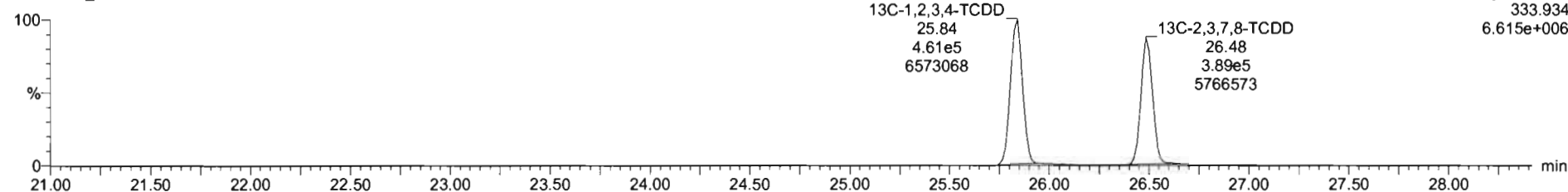


13C-2,3,7,8-TCDD

200603R1_12



200603R1_12



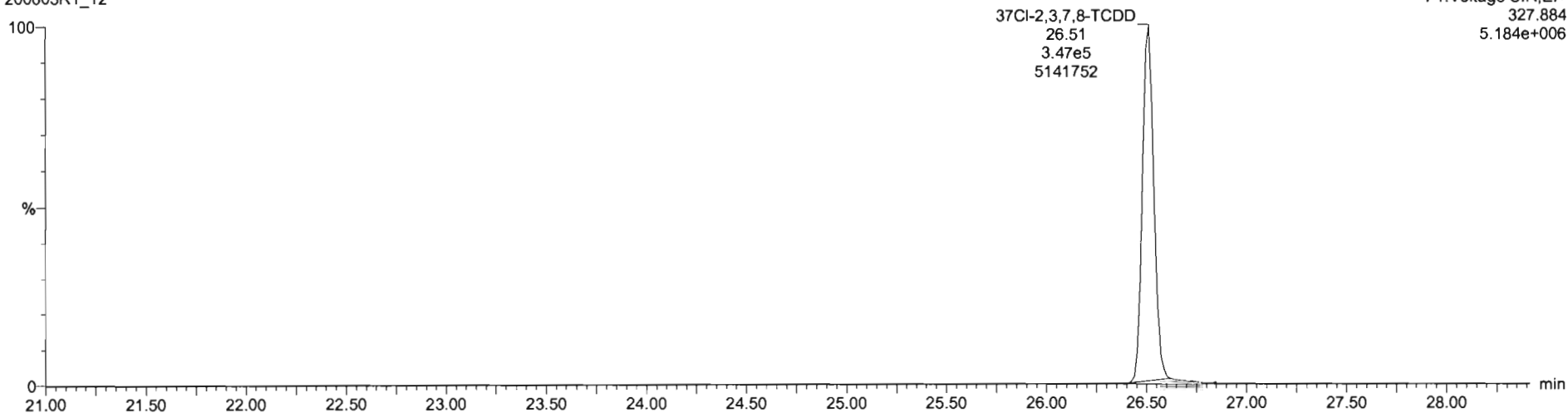
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_12, Date: 03-Jun-2020, Time: 16:38:58, ID: 2000965-08 PDI-150SC-A-07-08-200425 12.66, Description: PDI-150SC-A-07-08-200425

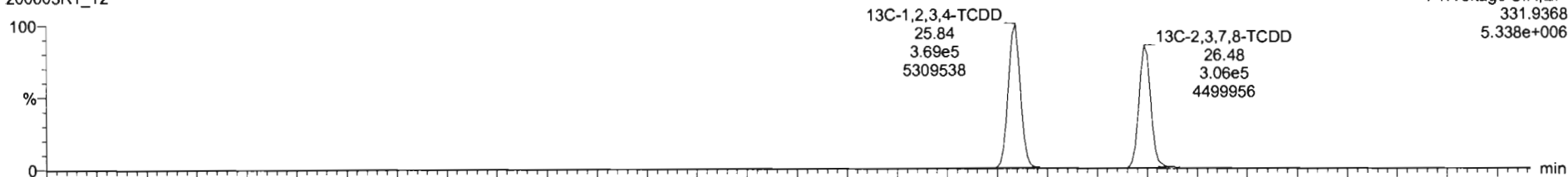
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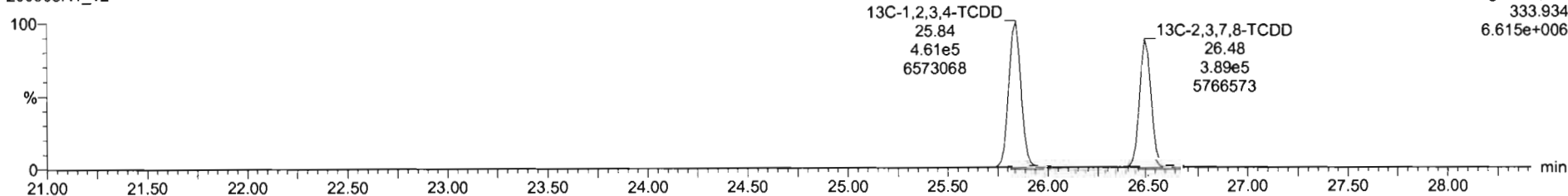


13C-1,2,3,4-TCDD

200603R1_12



200603R1_12



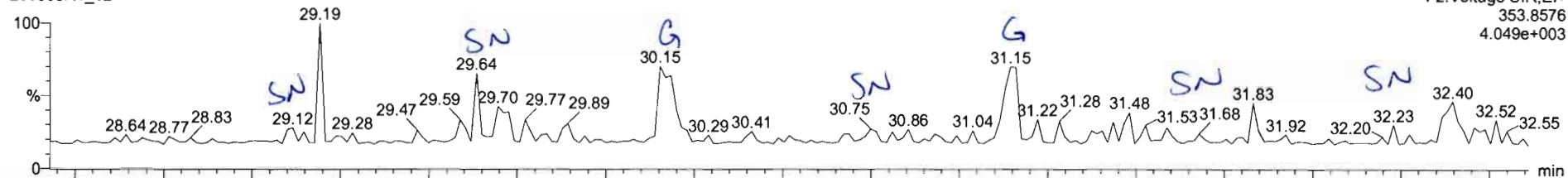
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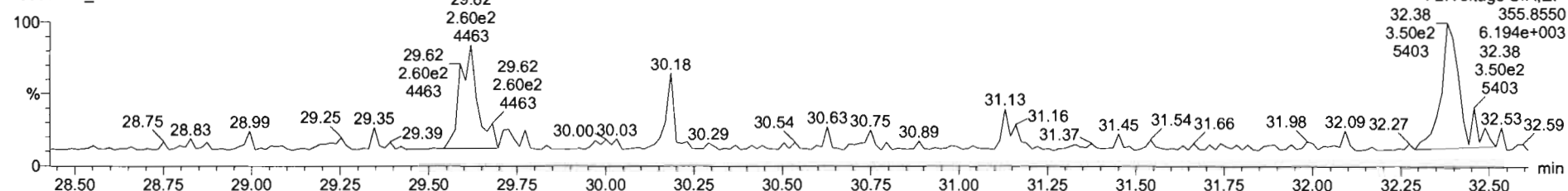
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1,2,3,7,8-PeCDD

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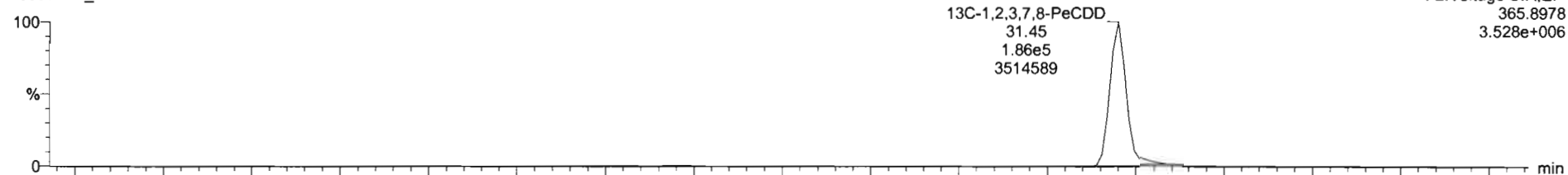


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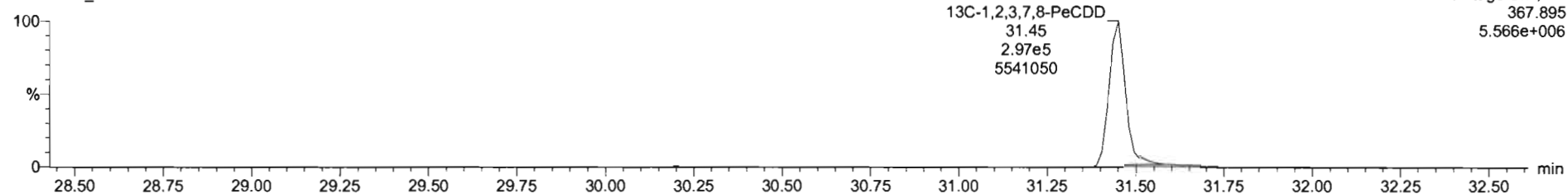


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200603R1_12



200603R1_12



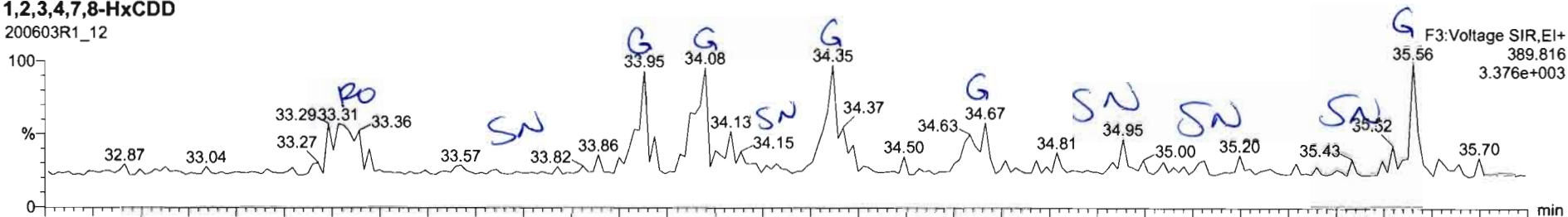
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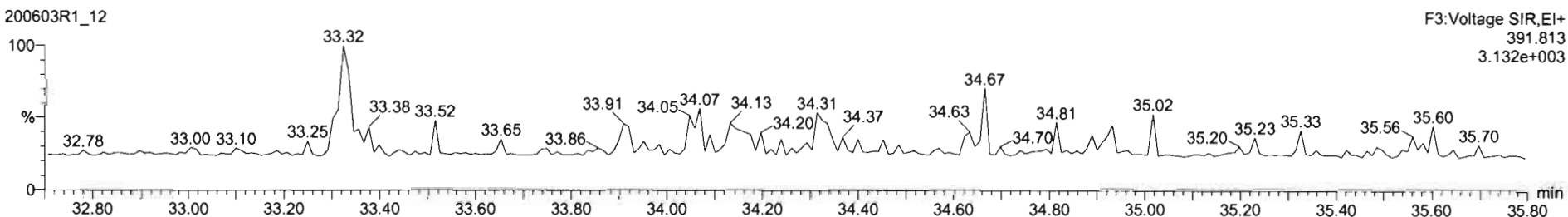
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1,2,3,4,7,8-HxCDD

200603R1_12

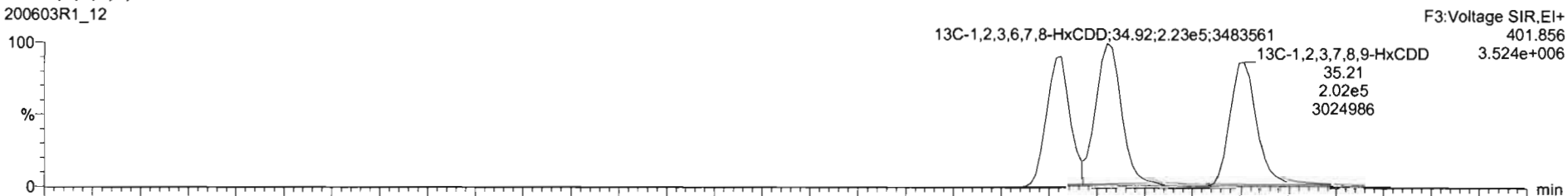


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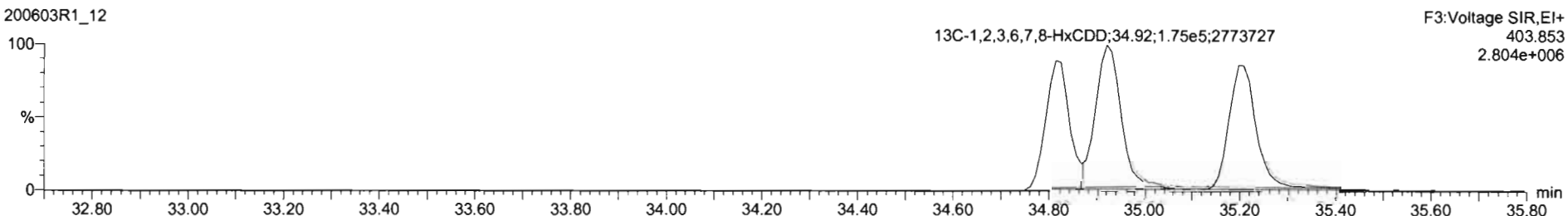


13C-1,2,3,4,7,8-HxCDD

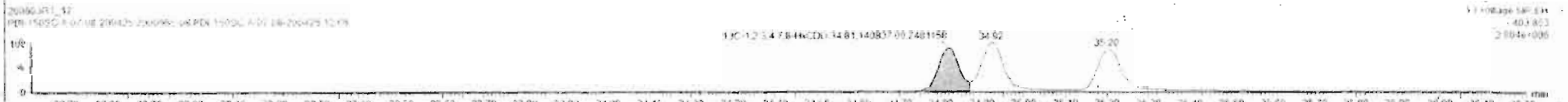
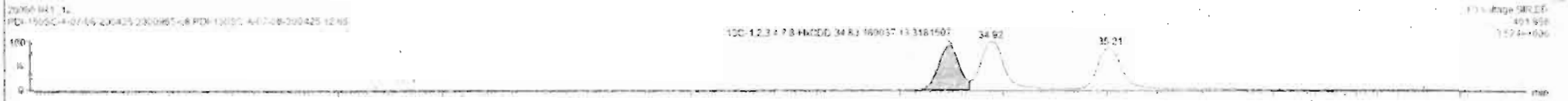
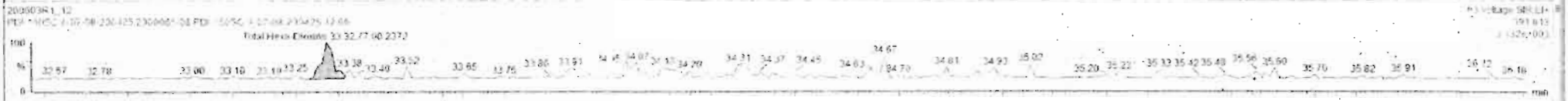
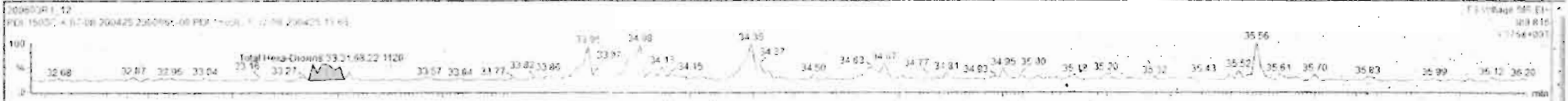
200603R1_12



200603R1_12



K	Mass	Resp	RA	inj	MSF	Wt/Wt	RT	RRT	Conc.	%Rec	DL	FMIC
38	13C-12,3,4,6,9-ACD	5.06e5	0.51	MC	1.0000	10.045	34.35	1.000	195	100	0.277	
39	Total Tetra-Dioxins				0.8863	10.045					0.1334	
40	Total Penta-Dioxins				0.5051	10.045					0.0762	
41	Total Hexa-Dioxins				0.0923	10.045			4.000		0.0593	0.0263
42	Total Hepta-Dioxins				0.0030	10.045					0.119	
43	Total Tetra-Furans				0.7510	10.045					0.0158	
44	1st Func. Penta-Furans				0.0021	10.045					0.00805	
45	Total Penta-Furans				0.0024	10.045					0.0050	
46	Total Hexa-Furans				0.0041	10.045					0.009	
47	Total Hepta-Furans				0.0724	10.045					0.0281	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



Dataset: Untitled

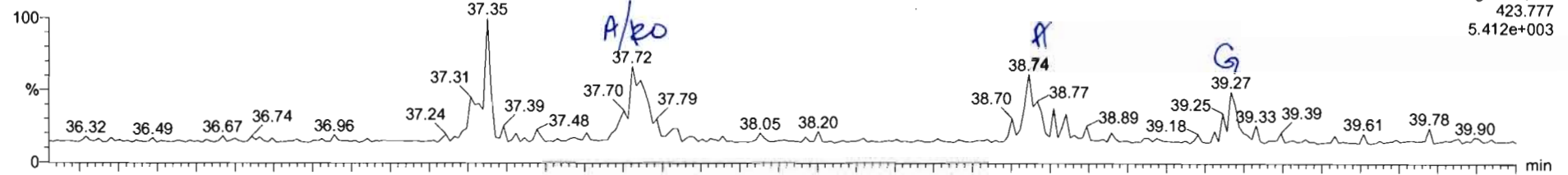
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

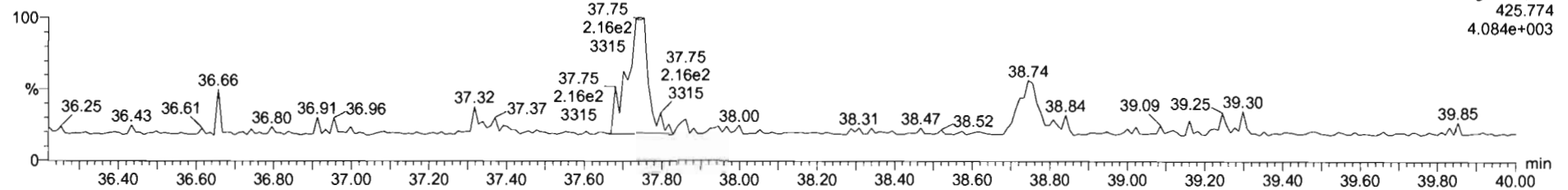
Name: 200603R1_12, Date: 03-Jun-2020, Time: 16:38:58, ID: 2000965-08 PDI-150SC-A-07-08-200425 12.66, Description: PDI-150SC-A-07-08-200425

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

200603R1_12

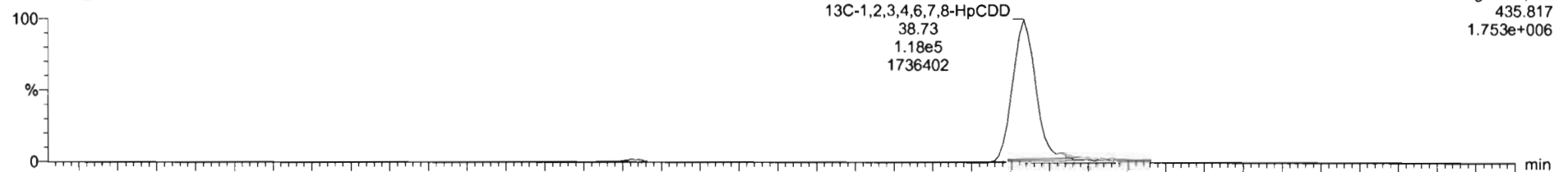


200603R1_12

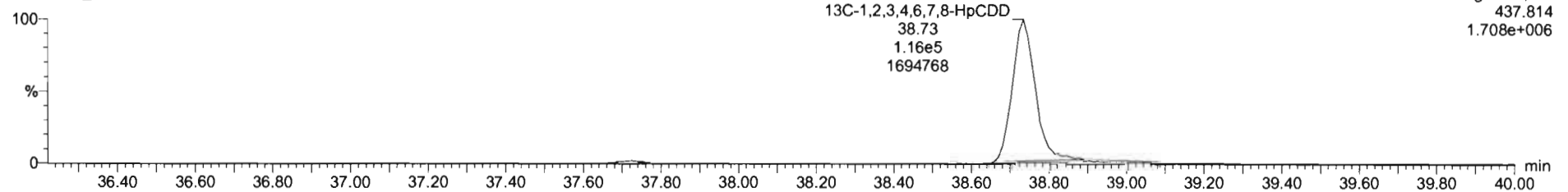


13C-1,2,3,4,6,7,8-HpCDD

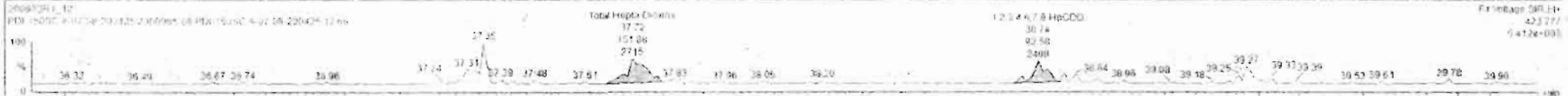
200603R1_12



200603R1_12



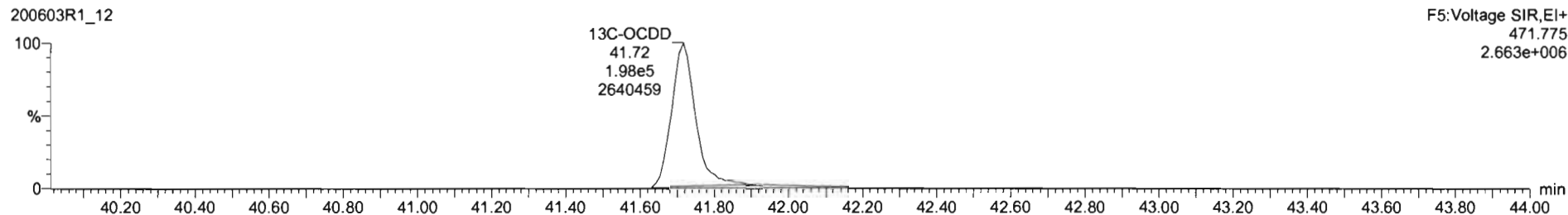
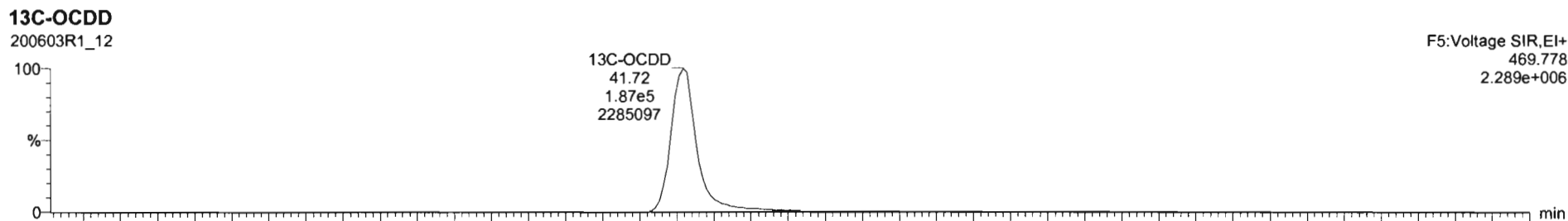
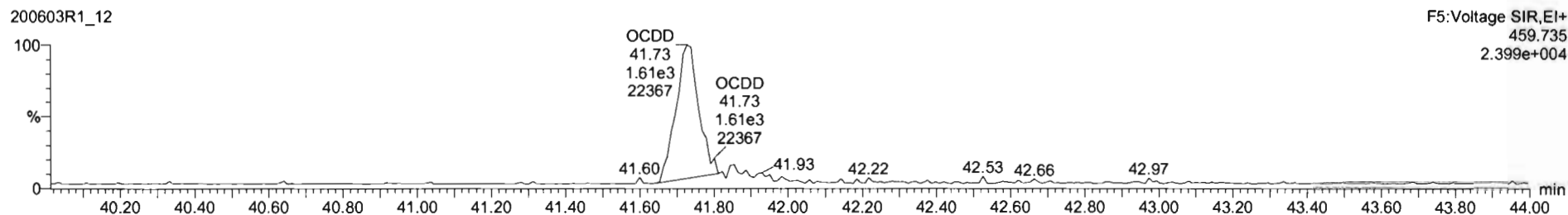
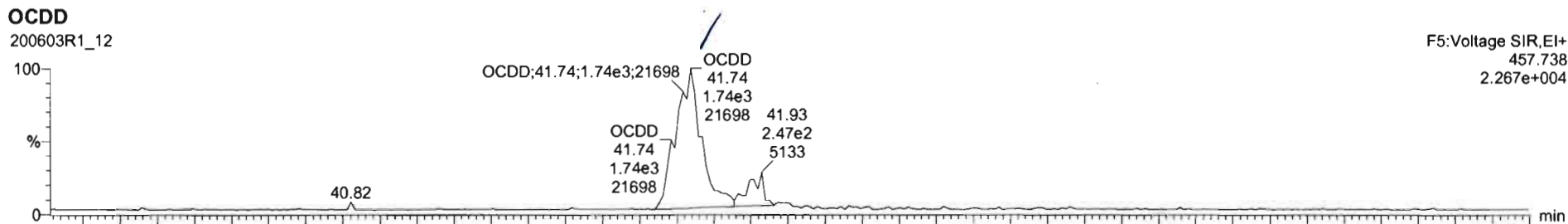
Value	Rep	Run	inj	RR1	WVSD	RT	RR1	Conc	WRec	DL	EMPC
38	13L	123448	9/10/07	1.0000	10.045	34.77	1.000	100	100	0.777	
39	Total Tetra-Chloro			0.853	10.045					3.031	
40	Total Penta-Chloro			0.901	10.045					3.136	
41	Total Hexa-Chloro			0.852	10.045			0.000		0.000	0.074
42	Total Hepta-Chloro			0.609	10.045			0.177		0.115	0.400
43	Total Tetra-Furans			0.7519	10.045					0.1156	
44	Total Penta-Furans			0.8528	10.045					0.00685	
45	Total Hexa-Furans			0.8528	10.045					0.0150	
46	Total Hepta-Furans			0.8741	10.045					0.0200	
47	Total Octa-Furans			0.8774	10.045					0.0181	
48	PK1										
49	PK2										
50	PK3										
51	PK4										
52	PK5										
53	PK6										
54	PK7										
55	PK8										
56	PK9										
57	PK10										
58	PK11										
59	PK12										



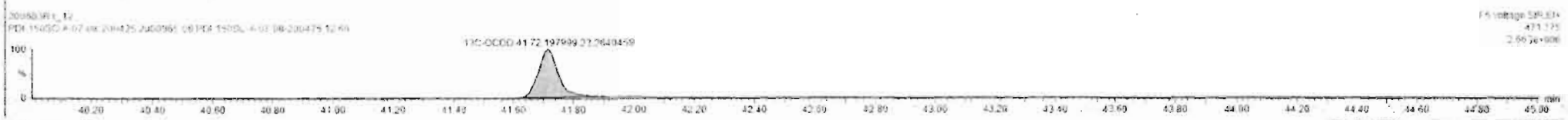
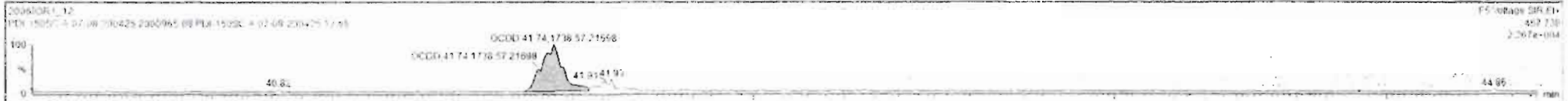
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_12, Date: 03-Jun-2020, Time: 16:38:58, ID: 2000965-08 PDI-150SC-A-07-08-200425 12.66, Description: PDI-150SC-A-07-08-200425



Q#	Name	Resp	RA	Qty	ADT	ADT01	RT	RRT	Ccnc	%Acc	DL	TRFC
7	OCDD	2.40e3	1.00	NO	0.9135	10.045	41.74	1.091	3.50		0.237	0.150
8	2.3.7.5-TCDF			NO	0.7510	10.045					0.0175	
9	1.2.3.7.5-PeCDF			NO	0.6925	10.045					0.0112	
10	2.1.4.7.5-PeCDF			NO	0.9348	10.045					0.0646	
11	1.2.3.4.7.5-HxCDF			NO	0.6045	10.045					0.0539	
12	1.2.3.6.7.5-HxCDF			NO	0.8052	10.045					0.0494	
13	2.3.4.6.7.5-HxCDF			NO	0.9341	10.045					0.0528	
14	1.2.3.7.6.5-HxCDF			NO	0.8737	10.045					0.0601	
15	1.2.3.4.6.7.5-HpCDF			NO	0.6734	10.045					0.0610	
16	1.2.3.4.7.8.5-HpCDF			NO	1.0120	10.045					0.0691	
17	OCDF			NO	0.5985	10.045					0.112	
18	13C-2.3.7.6-TCDD	0.95e5	0.79	NO	1.1583	10.045	20.40	1.020	144	72.4	0.150	
19	13C-1.2.3.7.8-PeCDD	4.83e5	0.63	NO	0.8490	10.045	31.40	1.217	156	68.5	0.371	
20	13C-1.2.3.4.7.6-HxCDD	3.21e5	1.26	NO	0.7730	10.045	34.83	1.014	137	65.8	0.475	
21	13C-1.2.3.6.7.8-HxCDD	3.98e5	1.27	NO	1.0167	10.045	34.92	1.017	130	65.5	0.382	
22	13C-1.2.3.7.8.5-HxCDD	3.43e5	1.26	NO	0.9027	10.045	35.21	1.026	171	67.1	0.408	
23	13C-1.2.3.4.6.7.8.5-HpCDD	2.36e5	1.02	NO	0.6842	10.045	35.73	1.120	111	56.7	0.406	
24	13C-OCDD	2.85e5	0.74	NO	0.8521	10.045	41.70	1.215	156	69.2	0.434	
25	13C-2.3.7.6-TCDF	9.15e5	0.77	NO	1.0590	10.045	29.60	0.891	154	73.4	0.247	
26	13C-1.2.3.7.8-PeCDF	7.33e5	1.58	NO	0.8329	10.045	30.17	1.188	149	73.1	0.424	
27	13C-2.3.4.7.8-PeCDF	7.17e5	1.60	NO	0.8189	10.045	31.15	1.205	146	73.3	0.435	



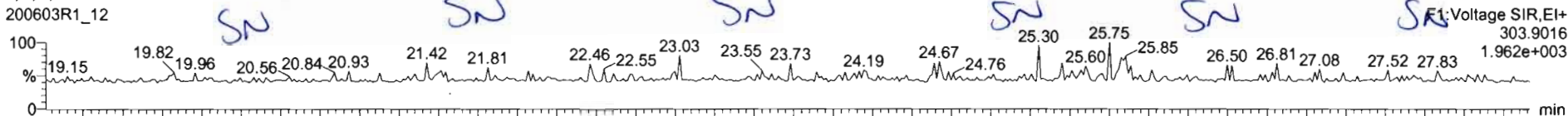
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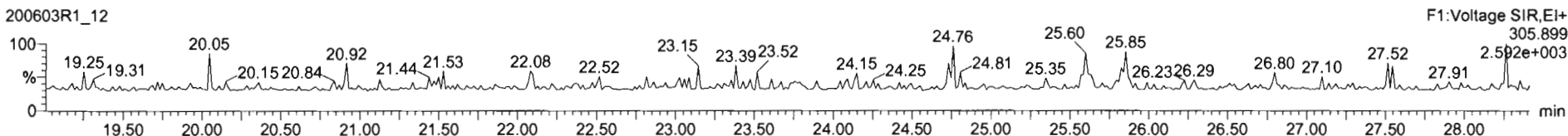
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2,3,7,8-TCDF

200603R1_12

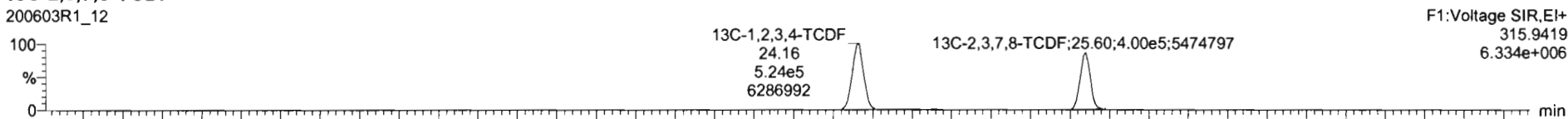


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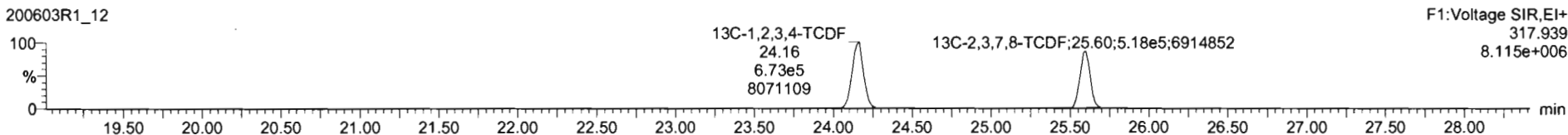


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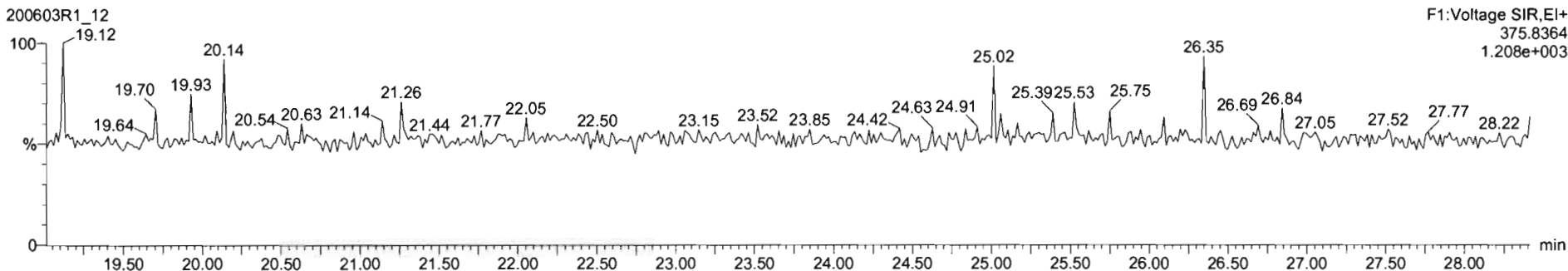


200603R1_12



DPE1

200603R1_12



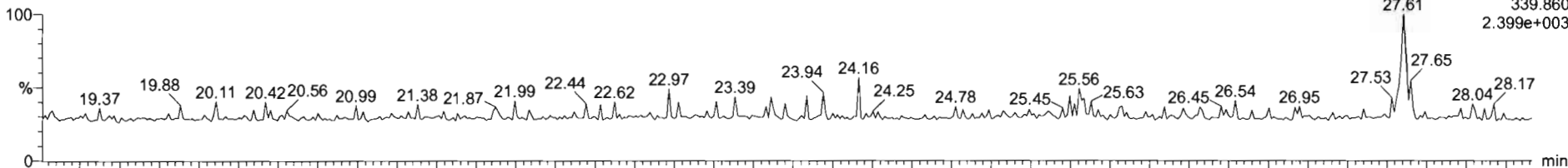
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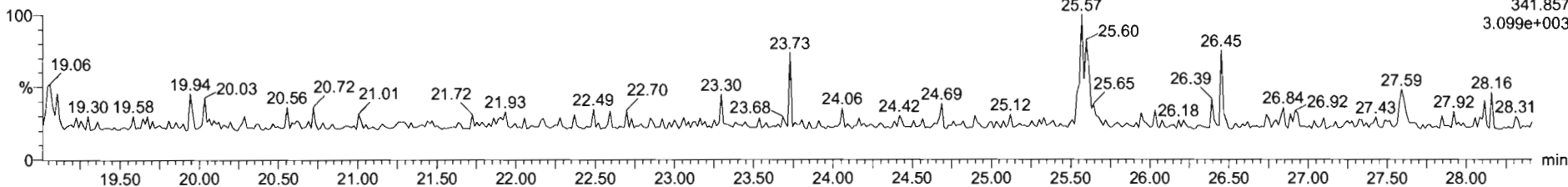
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1st Func. Penta-Furans

200603R1_12

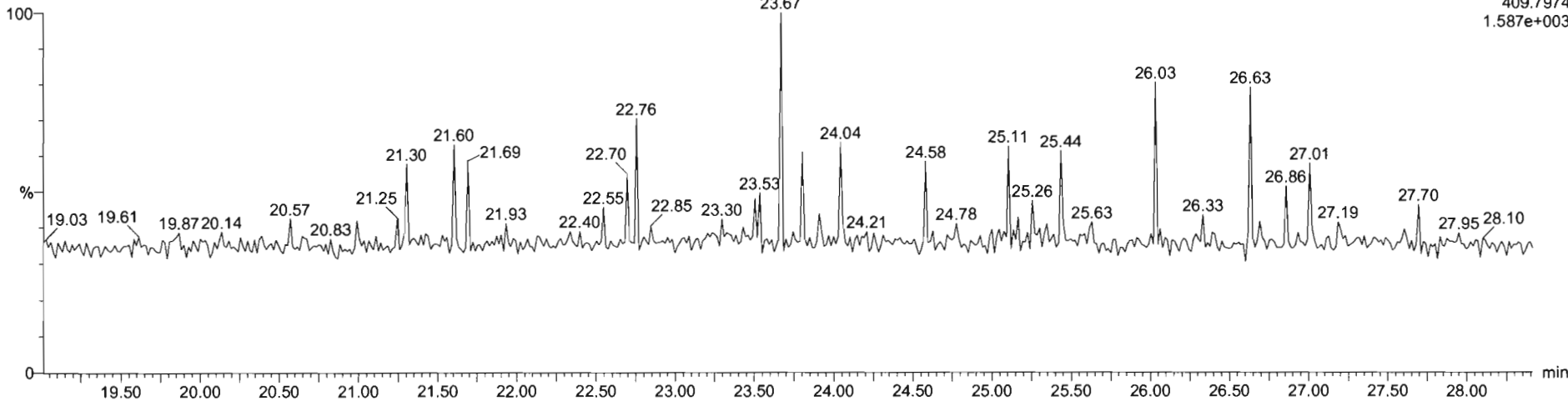


200603R1_12



DPE6

200603R1_12



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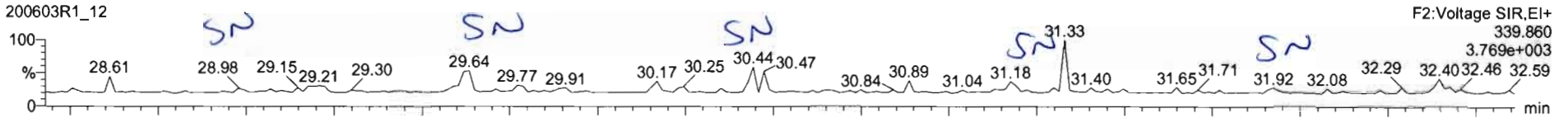
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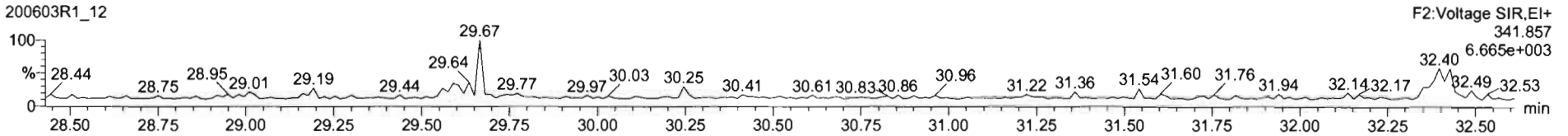
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1,2,3,7,8-PeCDF

200603R1_12

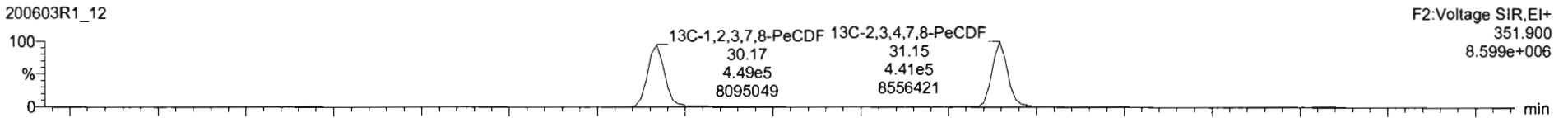


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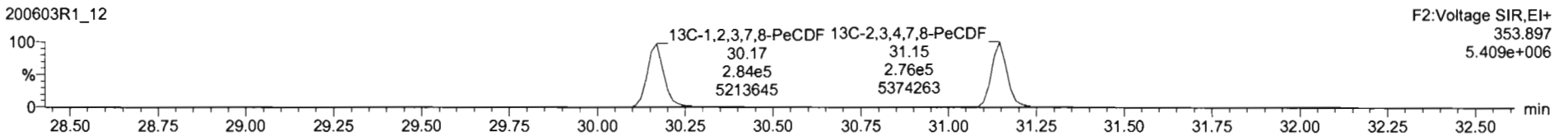


13C-1,2,3,7,8-PeCDF

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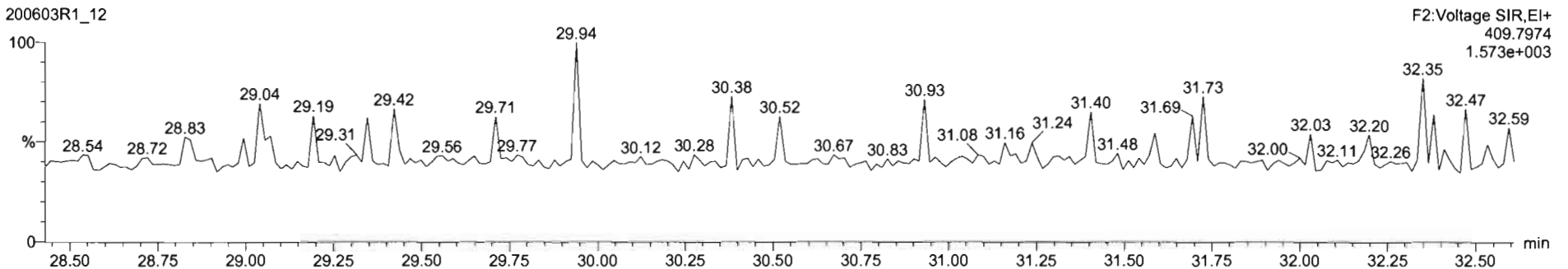


200603R1_12



DPE2

200603R1_12



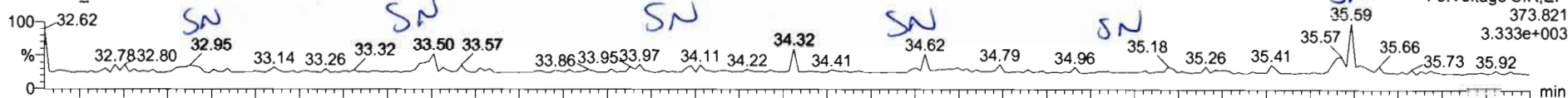
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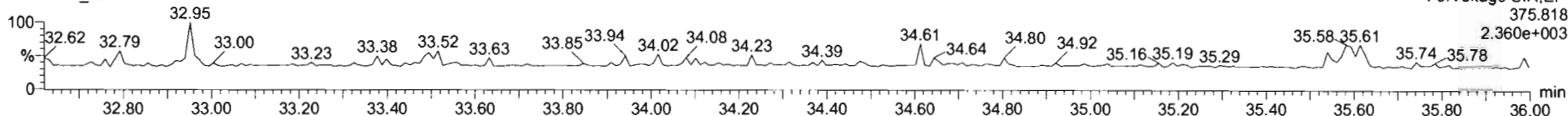
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1,2,3,4,7,8-HxCDF

200603R1_12

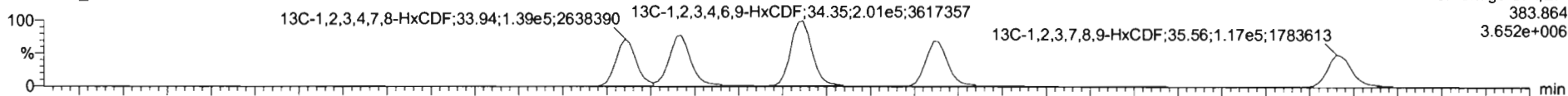


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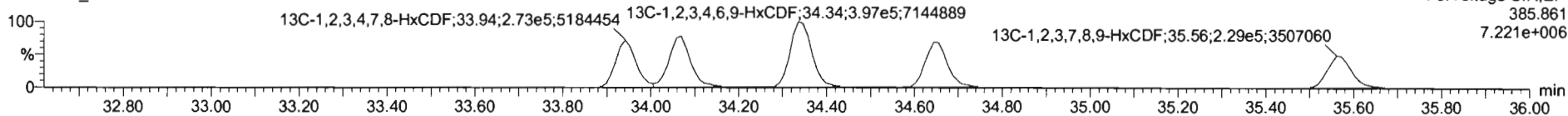


13C-1,2,3,4,7,8-HxCDF

200603R1_12

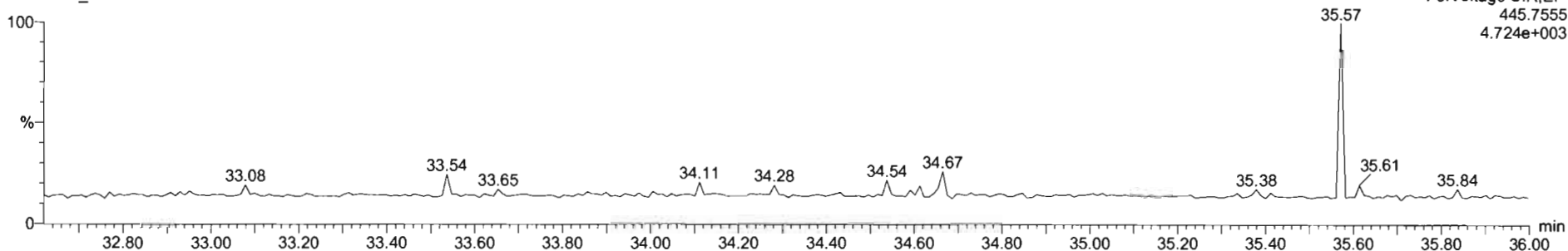


200603R1_12



DPE3

200603R1_12

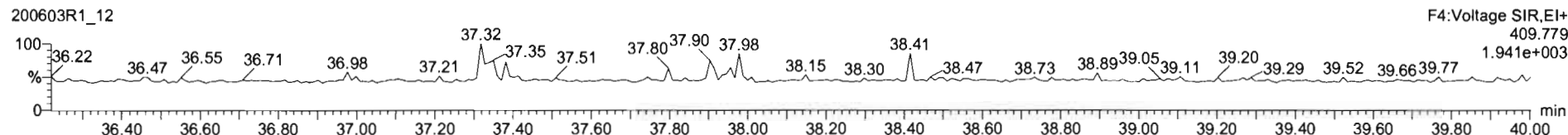
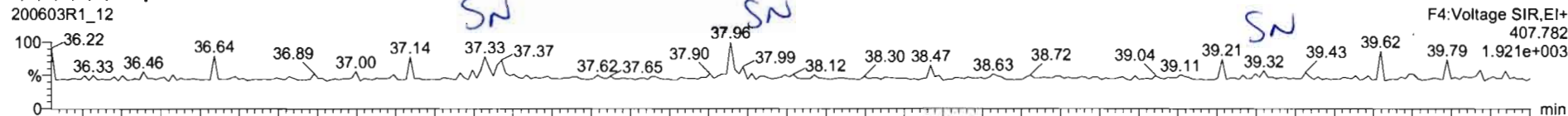


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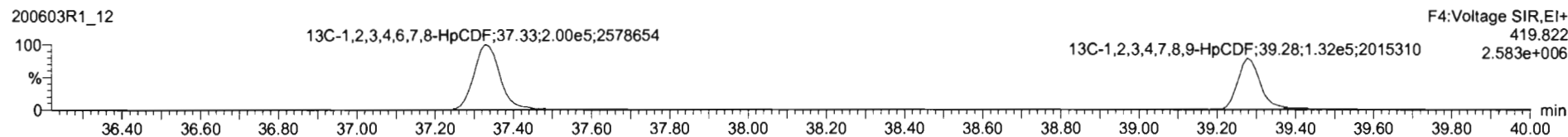
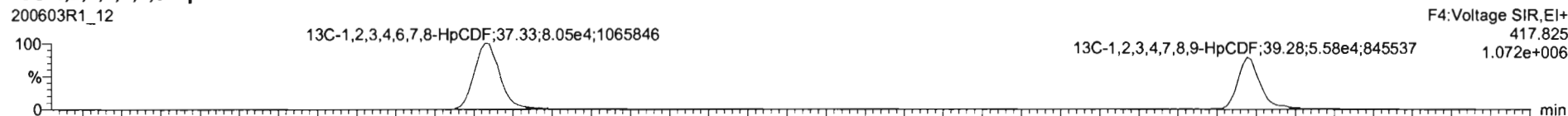
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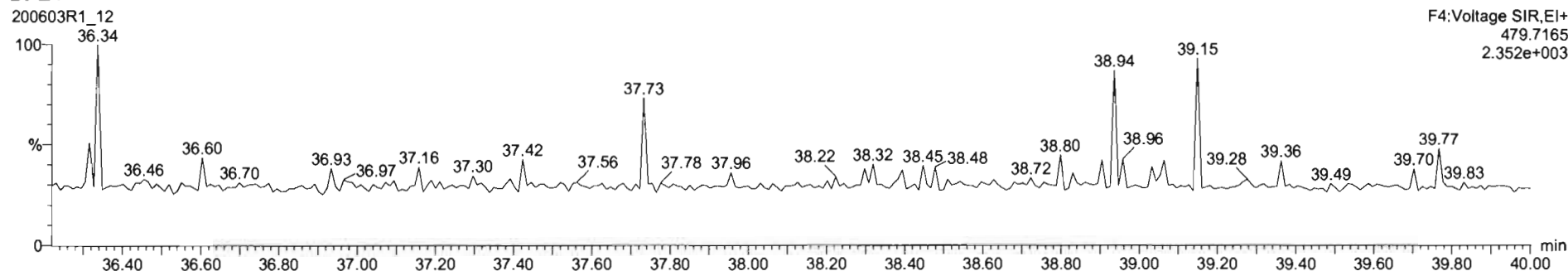
1,2,3,4,6,7,8-HpCDF



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



DPE4

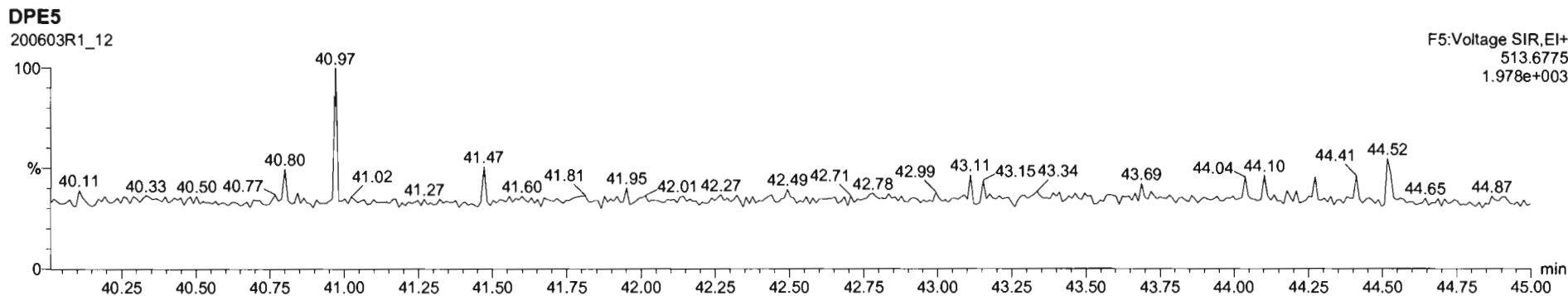
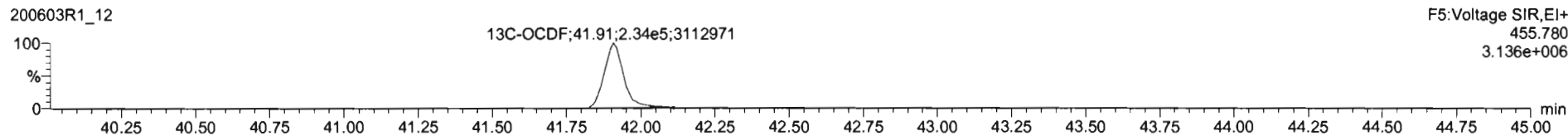
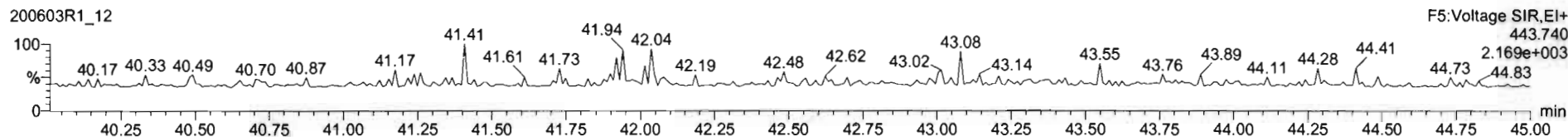
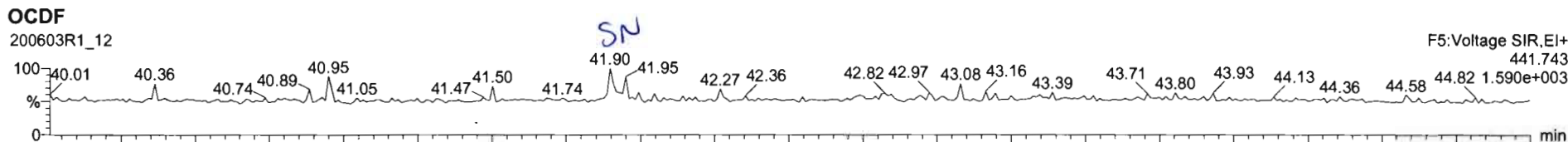


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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_12, Date: 03-Jun-2020, Time: 16:38:58, ID: 2000965-08 PDI-150SC-A-07-08-200425 12.66, Description: PDI-150SC-A-07-08-200425



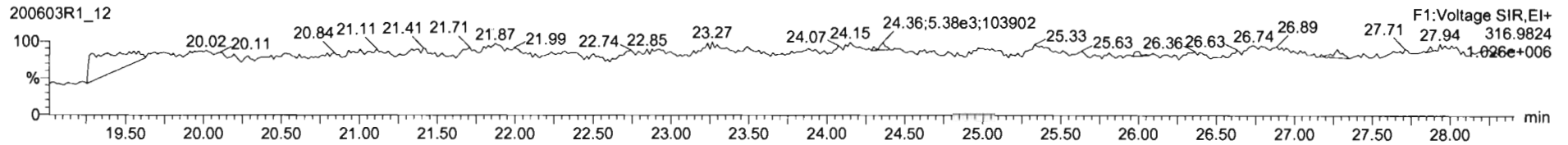
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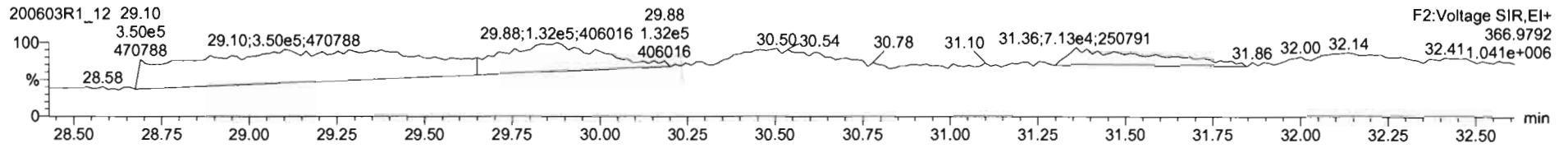
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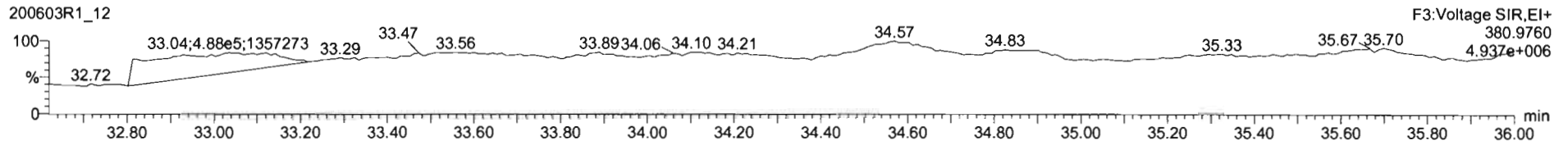
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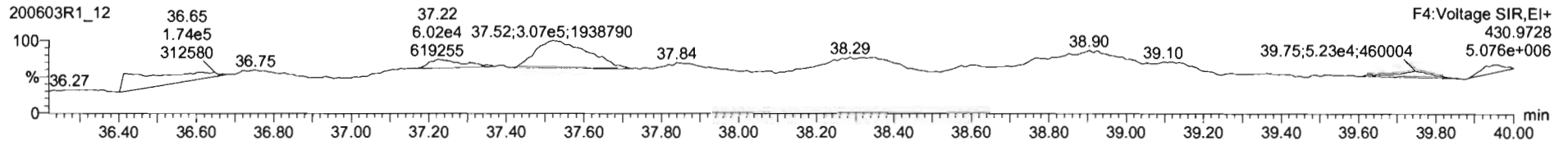
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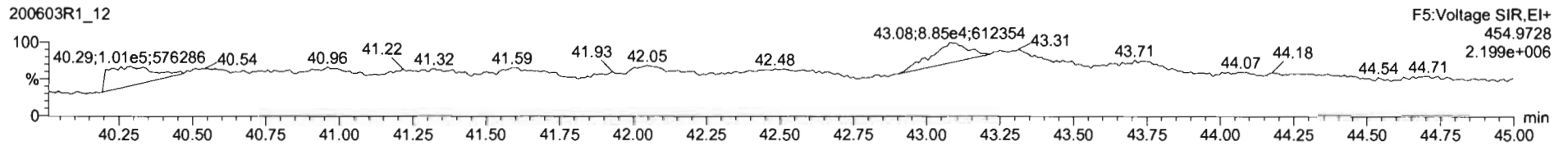
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R1\200603R1-13.qld

Last Altered: Thursday, June 04, 2020 14:34:14 Pacific Daylight Time

Printed: Thursday, June 04, 2020 14:34:31 Pacific Daylight Time

GRB 06/04/2020

CT 06/05/2020

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_13, Date: 03-Jun-2020, Time: 17:25:11, ID: 2000965-09 PDI-1163SC-A-01-02-200425 19.05, Description: PDI-1163SC-A-01-02-200425,

Task: ST200603R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.35e3	0.69	NO	0.888	10.326	26.531	26.53	1.00	1.001	1.8851		0.0694	1.89
2	1,2,3,7,8-PeCDD	5.19e3	0.64	NO	0.908	10.326	31.488	31.48	1.00	1.000	1.5807		0.130	1.58
3	1,2,3,4,7,8-HxCDD	3.21e3	1.26	NO	1.03	10.326	34.846	34.84	1.00	1.000	1.2871		0.218	1.29
4	1,2,3,6,7,8-HxCDD	1.71e4	1.22	NO	0.892	10.326	34.943	34.95	1.00	1.000	6.0688		0.226	6.07
5	1,2,3,7,8,9-HxCDD	6.91e3	1.07	NO	0.887	10.326	35.231	35.23	1.00	1.000	2.8464		0.263	2.85
6	1,2,3,4,6,7,8-HpCDD	2.54e5	1.00	NO	0.864	10.326	38.768	38.77	1.00	1.000	136.78		0.649	137
7	OCDD	3.08e6	0.87	NO	0.914	10.326	41.738	41.75	1.00	1.000	1684.0		0.948	1680
8	2,3,7,8-TCDF	1.10e6	0.75	NO	0.751	10.326	25.627	25.63	1.00	1.001	227.39	(156)	0.190	227
9	1,2,3,7,8-PeCDF	1.32e6	1.53	NO	0.893	10.326	30.205	30.18	1.00	1.000	265.66		0.316	266
10	2,3,4,7,8-PeCDF	5.74e5	1.53	NO	0.935	10.326	31.180	31.18	1.00	1.000	115.00		0.286	115
11	1,2,3,4,7,8-HxCDF	1.12e6	1.20	NO	0.884	10.326	33.952	33.97	1.00	1.001	399.89		0.516	400
12	1,2,3,6,7,8-HxCDF	3.51e5	1.22	NO	0.889	10.326	34.090	34.09	1.00	1.000	107.26		0.449	107
13	2,3,4,6,7,8-HxCDF	7.27e4	1.22	NO	0.934	10.326	34.701	34.68	1.00	1.000	23.332		0.511	23.3
14	1,2,3,7,8,9-HxCDF	9.27e4	1.16	NO	0.871	10.326	35.582	35.63	1.00	1.001	38.090		0.746	38.1
15	1,2,3,4,6,7,8-HpCDF	2.94e5	0.99	NO	0.873	10.326	37.387	37.36	1.00	1.000	148.28		0.616	148
16	1,2,3,4,7,8,9-HpCDF	1.12e5	0.99	NO	1.01	10.326	39.299	39.31	1.00	1.000	66.199		0.624	66.2
17	OCDF	4.66e5	0.83	NO	0.806	10.326	41.919	41.94	1.00	1.001	268.17		0.362	268
18	13C-2,3,7,8-TCDD	9.65e5	0.77	NO	1.16	10.326	26.522	26.50	1.03	1.026	208.71	108	0.210	
19	13C-1,2,3,7,8-PeCDD	7.00e5	0.63	NO	0.849	10.326	31.711	31.47	1.23	1.218	206.24	106	0.286	
20	13C-1,2,3,4,7,8-HxCDD	4.68e5	1.28	NO	0.779	10.326	34.841	34.84	1.01	1.014	204.97	106	0.826	
21	13C-1,2,3,6,7,8-HxCDD	6.11e5	1.27	NO	1.02	10.326	34.955	34.94	1.02	1.017	205.10	106	0.633	
22	13C-1,2,3,7,8,9-HxCDD	5.30e5	1.25	NO	0.903	10.326	35.226	35.22	1.03	1.025	200.52	104	0.713	
23	13C-1,2,3,4,6,7,8-HpCDD	4.17e5	1.00	NO	0.689	10.326	38.751	38.76	1.13	1.128	206.41	107	0.576	
24	13C-OCDD	7.76e5	0.84	NO	0.652	10.326	41.775	41.74	1.22	1.215	406.03	105	0.528	
25	13C-2,3,7,8-TCDF	1.25e6	0.78	NO	1.06	10.326	25.564	25.60	0.99	0.991	199.66	103	0.313	
26	13C-1,2,3,7,8-PeCDF	1.08e6	1.60	NO	0.838	10.326	30.093	30.18	1.16	1.168	218.21	113	0.581	
27	13C-2,3,4,7,8-PeCDF	1.03e6	1.60	NO	0.817	10.326	31.047	31.16	1.20	1.206	214.36	111	0.596	
28	13C-1,2,3,4,7,8-HxCDF	6.15e5	0.50	NO	1.01	10.326	33.972	33.95	0.99	0.988	208.29	108	0.800	
29	13C-1,2,3,6,7,8-HxCDF	7.13e5	0.51	NO	1.17	10.326	34.096	34.08	0.99	0.992	208.49	108	0.691	
30	13C-2,3,4,6,7,8-HxCDF	6.46e5	0.50	NO	1.02	10.326	34.670	34.67	1.01	1.009	215.76	111	0.789	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-13.qld

Last Altered: Thursday, June 04, 2020 14:34:14 Pacific Daylight Time
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Name: 200603R1_13, Date: 03-Jun-2020, Time: 17:25:11, ID: 2000965-09 PDI-1163SC-A-01-02-200425 19.05, Description: PDI-1163SC-A-01-02-200425,
 Task: ST200603R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	5.41e5	0.50	NO	0.860	10.326	35.570	35.58	1.04	1.036	214.98	111	0.938	
32	13C-1,2,3,4,6,7,8-HpCDF	4.39e5	0.44	NO	0.774	10.326	37.319	37.35	1.09	1.087	193.55	99.9	0.553	
33	13C-1,2,3,4,7,8,9-HpCDF	3.23e5	0.44	NO	0.521	10.326	39.349	39.30	1.15	1.144	211.95	109	0.822	
34	13C-OCDF	8.35e5	0.87	NO	0.746	10.326	41.946	41.92	1.22	1.220	382.32	98.7	0.632	
35	37Cl-2,3,7,8-TCDD	3.26e5			1.04	10.326	26.553	26.53	1.03	1.027	78.547	101	0.0926	
36	13C-1,2,3,4-TCDD	7.75e5	0.80	NO	1.00	10.326	25.890	25.84	1.00	1.000	193.68	100	0.243	
37	13C-1,2,3,4-TCDF	1.14e6	0.79	NO	1.00	10.326	24.360	24.16	1.00	1.000	193.68	100	0.331	
38	13C-1,2,3,4,6,9-HxCDF	5.67e5	0.51	NO	1.00	10.326	34.420	34.36	1.00	1.000	193.68	100	0.806	
39	Total Tetra-Dioxins				0.888	10.326	24.620		0.00		14.143		0.0694	14.1
40	Total Penta-Dioxins				0.908	10.326	29.960		0.00		13.794		0.130	15.8
41	Total Hexa-Dioxins				0.892	10.326	33.635		0.00		62.112		0.245	62.1
42	Total Hepta-Dioxins				0.864	10.326	37.640		0.00		326.04		0.649	326
43	Total Tetra-Furans				0.751	10.326	23.610		0.00		668.73		0.190	669
44	1st Func. Penta-Furans				0.893	10.326	27.580		0.00		28.128		0.0340	28.1
45	Total Penta-Furans				0.893	10.326	29.275		0.00		690.09		0.308	702
46	Total Hexa-Furans				0.934	10.326	33.555		0.00		696.92		0.521	697
47	Total Hepta-Furans				0.873	10.326	37.835		0.00		384.13		0.662	384

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Dataset: U:\VG12.PRO\Results\200603R1\200603R1-13.qld

Last Altered: Thursday, June 04, 2020 14:34:14 Pacific Daylight Time

Printed: Thursday, June 04, 2020 14:34:31 Pacific Daylight Time

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_13, Date: 03-Jun-2020, Time: 17:25:11, ID: 2000965-09 PDI-1163SC-A-01-02-200425 19.05, Description: PDI-1163SC-A-01-02-200425, Task: ST200603R1_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.52	9.699e4	1.310e5	9.414e3	1.215e4	0.77	NO	2.156e4	4.8701	4.8701	0.0694
2	Total Tetra-Dioxins	22.95	2.977e4	3.822e4	2.654e3	3.376e3	0.79	NO	6.030e3	1.3617	1.3617	0.0694
3	Total Tetra-Dioxins	23.42	1.248e4	2.057e4	1.257e3	1.751e3	0.72	NO	3.007e3	0.67917	0.67917	0.0694
4	Total Tetra-Dioxins	24.33	7.671e3	1.162e4	7.112e2	1.011e3	0.70	NO	1.722e3	0.38886	0.38886	0.0694
5	Total Tetra-Dioxins	24.60	1.749e4	2.441e4	1.542e3	1.976e3	0.78	NO	3.519e3	0.79463	0.79463	0.0694
6	Total Tetra-Dioxins	24.81	2.692e4	3.735e4	2.112e3	2.724e3	0.78	NO	4.836e3	1.0920	1.0920	0.0694
7	Total Tetra-Dioxins	25.29	7.472e3	1.021e4	5.729e2	7.384e2	0.78	NO	1.311e3	0.29612	0.29612	0.0694
8	Total Tetra-Dioxins	25.48	1.018e4	1.119e4	6.008e2	7.673e2	0.78	NO	1.368e3	0.30898	0.30898	0.0694
9	Total Tetra-Dioxins	25.84	6.971e3	9.615e3	4.929e2	6.904e2	0.71	NO	1.183e3	0.26721	0.26721	0.0694
10	Total Tetra-Dioxins	26.24	4.138e4	5.254e4	3.214e3	3.934e3	0.82	NO	7.148e3	1.6143	1.6143	0.0694
11	2,3,7,8-TCDD	26.53	5.041e4	7.595e4	3.407e3	4.940e3	0.69	NO	8.347e3	1.8851	1.8851	0.0694
12	Total Tetra-Dioxins	26.84	9.955e3	1.419e4	5.881e2	8.534e2	0.69	NO	1.441e3	0.32554	0.32554	0.0694
13	Total Tetra-Dioxins	25.02	6.288e3	8.938e3	5.177e2	6.326e2	0.82	NO	1.150e3	0.25978	0.25978	0.0694

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	6.646e4	1.139e5	5.573e3	9.460e3	0.59	NO	1.503e4	4.5778	4.5778	0.130
2	Total Penta-Dioxins	29.74	2.716e4	4.163e4	1.541e3	2.300e3	0.67	NO	3.841e3	1.1695	1.1695	0.130
3	Total Penta-Dioxins	30.23	6.154e4	8.418e4	3.770e3	5.328e3	0.71	NO	9.098e3	2.7703	2.7703	0.130
4	Total Penta-Dioxins	30.41	2.885e4	5.062e4	1.781e3	2.870e3	0.62	NO	4.651e3	1.4163	1.4163	0.130
5	Total Penta-Dioxins	30.49	2.169e4	3.184e4	1.222e3	1.907e3	0.64	NO	3.130e3	0.95299	0.95299	0.130
6	Total Penta-Dioxins	30.70	3.025e4	4.921e4	2.708e3	2.862e3	0.95	YES	0.000e0	0.00000	1.4204	0.130
7	Total Penta-Dioxins	31.04	1.187e4	2.403e4	6.998e2	1.159e3	0.60	NO	1.859e3	0.56611	0.56611	0.130
8	1,2,3,7,8-PeCDD	31.48	3.780e4	6.066e4	2.024e3	3.167e3	0.64	NO	5.191e3	1.5807	1.5807	0.130
9	Total Penta-Dioxins	31.86	8.432e3	1.767e4	5.178e2	7.889e2	0.66	NO	1.307e3	0.39791	0.39791	0.130
10	Total Penta-Dioxins	30.73	2.294e4	3.102e4	8.350e2	1.185e3	0.70	NO	0.000e0	0.00000	0.61508	0.130
11	Total Penta-Dioxins	31.54	1.120e4	1.247e4	4.956e2	6.945e2	0.71	NO	1.190e3	0.36240	0.36240	0.130

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Name: 200603R1_13, Date: 03-Jun-2020, Time: 17:25:11, ID: 2000965-09 PDI-1163SC-A-01-02-200425 19.05, Description: PDI-1163SC-A-01-02-200425, Task: ST200603R1_1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	6.230e5	5.418e5	3.214e4	2.607e4	1.23	NO	5.821e4	23.559	23.559	0.245
2	Total Hexa-Dioxins	33.90	6.794e4	5.113e4	3.729e3	2.805e3	1.33	NO	6.534e3	2.6446	2.6446	0.245
3	Total Hexa-Dioxins	34.17	4.662e5	3.888e5	3.147e4	2.609e4	1.21	NO	5.756e4	23.296	23.296	0.245
4	Total Hexa-Dioxins	34.27	3.075e4	2.928e4	2.168e3	1.913e3	1.13	NO	4.081e3	1.6518	1.6518	0.245
5	1,2,3,4,7,8-HxCDD	34.84	3.657e4	2.569e4	1.788e3	1.424e3	1.26	NO	3.212e3	1.2871	1.2871	0.218
6	1,2,3,6,7,8-HxCDD	34.95	1.485e5	1.188e5	9.369e3	7.710e3	1.22	NO	1.708e4	6.0688	6.0688	0.226
7	Total Hexa-Dioxins	35.15	1.736e4	1.312e4	1.022e3	8.516e2	1.20	NO	1.873e3	0.75813	0.75813	0.245
8	1,2,3,7,8,9-HxCDD	35.23	5.600e4	5.750e4	3.579e3	3.333e3	1.07	NO	6.912e3	2.8464	2.8464	0.263

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.76	2.122e6	2.171e6	1.772e5	1.746e5	1.01	NO	3.518e5	189.26	189.26	0.649
2	1,2,3,4,6,7,8-HpCDD	38.77	1.779e6	1.819e6	1.270e5	1.272e5	1.00	NO	2.542e5	136.78	136.78	0.649

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Dataset: U:\VG12.PRO\Results\200603R1\200603R1-13.qld

Last Altered: Thursday, June 04, 2020 14:34:14 Pacific Daylight Time

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Name: 200603R1_13, Date: 03-Jun-2020, Time: 17:25:11, ID: 2000965-09 PDI-1163SC-A-01-02-200425 19.05, Description: PDI-1163SC-A-01-02-200425, Task: ST200603R1_1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.36	4.786e4	6.131e4	3.979e3	5.262e3	0.76	NO	9.241e3	1.9071	1.9071	0.190
2	Total Tetra-Furans	20.90	7.321e4	1.004e5	6.405e3	8.710e3	0.74	NO	1.511e4	3.1192	3.1192	0.190
3	Total Tetra-Furans	21.51	3.827e5	5.082e5	3.241e4	4.454e4	0.73	NO	7.694e4	15.879	15.879	0.190
4	Total Tetra-Furans	22.07	1.977e5	2.825e5	2.352e4	3.187e4	0.74	NO	5.539e4	11.431	11.431	0.190
5	Total Tetra-Furans	22.47	1.067e6	1.444e6	1.058e5	1.435e5	0.74	NO	2.492e5	51.438	51.438	0.190
6	Total Tetra-Furans	22.97	3.598e5	4.766e5	3.409e4	4.551e4	0.75	NO	7.960e4	16.428	16.428	0.190
7	Total Tetra-Furans	23.13	5.658e4	7.303e4	4.863e3	6.467e3	0.75	NO	1.133e4	2.3382	2.3382	0.190
8	Total Tetra-Furans	23.34	2.159e5	2.778e5	1.866e4	2.503e4	0.75	NO	4.369e4	9.0163	9.0163	0.190
9	Total Tetra-Furans	23.77	3.800e4	4.927e4	3.177e3	4.197e3	0.76	NO	7.374e3	1.5218	1.5218	0.190
10	Total Tetra-Furans	23.91	3.757e4	4.577e4	3.182e3	4.011e3	0.79	NO	7.193e3	1.4845	1.4845	0.190
11	Total Tetra-Furans	24.18	7.431e5	1.032e6	7.092e4	9.870e4	0.72	NO	1.696e5	35.005	35.005	0.190
12	Total Tetra-Furans	24.69	5.383e6	7.206e6	4.286e5	5.749e5	0.75	NO	1.004e6	207.10	207.10	0.190
13	Total Tetra-Furans	24.99	1.895e5	2.396e5	1.472e4	1.930e4	0.76	NO	3.401e4	7.0194	7.0194	0.190
14	Total Tetra-Furans	25.18	3.852e4	5.309e4	4.010e3	5.009e3	0.80	NO	9.019e3	1.8613	1.8613	0.190
15	Total Tetra-Furans	25.41	6.924e4	8.479e4	4.361e3	5.230e3	0.83	NO	9.591e3	1.9793	1.9793	0.190
16	Total Tetra-Furans	25.53	8.717e5	1.167e6	5.836e4	7.867e4	0.74	NO	1.370e5	28.280	28.280	0.190
17	2,3,7,8-TCDF	25.63	6.441e6	8.578e6	4.710e5	6.309e5	0.75	NO	1.102e6	227.39	227.39	0.190
18	Total Tetra-Furans	26.00	2.334e5	3.216e5	1.672e4	2.401e4	0.70	NO	4.073e4	8.4049	8.4049	0.190
19	Total Tetra-Furans	26.26	5.554e4	8.161e4	4.044e3	5.974e3	0.68	NO	1.002e4	2.0675	2.0675	0.190
20	Total Tetra-Furans	27.64	6.961e5	8.550e5	4.678e4	5.536e4	0.84	NO	1.021e5	21.080	21.080	0.190
21	Total Tetra-Furans	21.99	5.904e4	8.533e4	3.708e3	5.082e3	0.73	NO	8.790e3	1.8141	1.8141	0.190
22	Total Tetra-Furans	24.10	2.510e5	3.381e5	1.491e4	2.090e4	0.71	NO	3.581e4	7.3895	7.3895	0.190
23	Total Tetra-Furans	24.79	9.226e4	1.086e5	4.020e3	5.767e3	0.70	NO	9.787e3	2.0198	2.0198	0.190
24	Total Tetra-Furans	25.74	8.916e4	1.140e5	6.177e3	7.218e3	0.86	NO	1.340e4	2.7644	2.7644	0.190

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	27.61	1.311e6	8.060e5	8.556e4	5.154e4	1.66	NO	1.371e5	28.128	28.128	0.0340

Vista Analytical Laboratory

Dataset: U:\WG12.PRO\Results\200603R1\200603R1-13.qld

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Printed: Thursday, June 04, 2020 14:34:31 Pacific Daylight Time

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Task: ST200603R1_1

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.06	1.898e5	1.268e5	1.071e4	7.338e3	1.46	NO	1.805e4	3.7025	3.7025	0.308
2	Total Penta-Furans	29.21	6.753e6	4.331e6	4.004e5	2.595e5	1.54	NO	6.599e5	135.38	135.38	0.308
3	Total Penta-Furans	29.79	4.926e5	2.941e5	2.672e4	1.704e4	1.57	NO	0.000e0	0.00000	8.9787	0.308
4	Total Penta-Furans	30.00	1.636e6	1.018e6	8.686e4	5.280e4	1.65	NO	1.397e5	28.654	28.654	0.308
5	1,2,3,7,8-PeCDF	30.18	1.412e7	9.293e6	8.008e5	5.223e5	1.53	NO	1.323e6	265.66	265.66	0.316
6	Total Penta-Furans	30.46	5.209e6	3.404e6	2.696e5	1.770e5	1.52	NO	4.466e5	91.623	91.623	0.308
7	Total Penta-Furans	30.95	4.378e4	2.337e4	1.890e3	1.111e3	1.70	NO	3.001e3	0.61573	0.61573	0.308
8	Total Penta-Furans	31.05	7.899e4	5.059e4	3.919e3	2.347e3	1.67	NO	6.266e3	1.2855	1.2855	0.308
9	2,3,4,7,8-PeCDF	31.18	6.368e6	4.047e6	3.477e5	2.266e5	1.53	NO	5.742e5	115.00	115.00	0.286
10	Total Penta-Furans	32.11	3.626e5	2.271e5	1.939e4	1.290e4	1.50	NO	3.229e4	6.6241	6.6241	0.308
11	Total Penta-Furans	30.26	6.384e5	3.892e5	2.482e4	1.523e4	1.63	NO	4.005e4	8.2164	8.2164	0.308
12	Total Penta-Furans	29.27	4.196e5	2.534e5	1.497e4	9.247e3	1.62	NO	2.422e4	4.9682	4.9682	0.308
13	Total Penta-Furans	29.83	1.611e5	1.122e5	8.294e3	5.480e3	1.51	NO	0.000e0	0.00000	2.8260	0.308
14	Total Penta-Furans	31.21	3.668e6	2.339e6	8.491e4	5.326e4	1.59	NO	1.382e5	28.348	28.348	0.308

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	3.285e5	2.809e5	1.650e4	1.397e4	1.18	NO	3.047e4	10.049	10.049	0.521
2	Total Hexa-Furans	32.96	1.528e6	1.301e6	7.821e4	6.569e4	1.19	NO	1.439e5	47.458	47.458	0.521
3	Total Hexa-Furans	33.32	4.227e4	3.604e4	2.346e3	1.754e3	1.34	NO	4.101e3	1.3524	1.3524	0.521
4	Total Hexa-Furans	33.50	1.656e6	1.388e6	8.028e4	6.686e4	1.20	NO	1.471e5	48.527	48.527	0.521
5	Total Hexa-Furans	33.87	8.133e4	7.394e4	3.492e3	2.926e3	1.19	NO	6.418e3	2.1167	2.1167	0.521
6	1,2,3,4,7,8-HxCDF	33.97	1.106e7	9.119e6	6.113e5	5.113e5	1.20	NO	1.123e6	399.89	399.89	0.516
7	1,2,3,6,7,8-HxCDF	34.09	3.176e6	2.634e6	1.926e5	1.583e5	1.22	NO	3.510e5	107.26	107.26	0.449
8	Total Hexa-Furans	34.37	5.183e4	3.924e4	2.570e3	2.015e3	1.28	NO	4.585e3	1.5123	1.5123	0.521
9	2,3,4,6,7,8-HxCDF	34.68	6.921e5	5.904e5	3.991e4	3.277e4	1.22	NO	7.268e4	23.332	23.332	0.511
10	1,2,3,7,8,9-HxCDF	35.63	1.082e6	9.076e5	4.983e4	4.286e4	1.16	NO	9.270e4	38.090	38.090	0.746
11	Total Hexa-Furans	35.65	9.611e5	7.595e5	2.422e4	1.910e4	1.27	NO	4.332e4	14.286	14.286	0.521
12	Total Hexa-Furans	34.19	1.141e5	7.773e4	5.267e3	3.980e3	1.32	NO	9.247e3	3.0496	3.0496	0.521

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Dataset: U:\VG12.PRO\Results\200603R1\200603R1-13.qld

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Printed: Thursday, June 04, 2020 14:34:31 Pacific Daylight Time

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.36	1.912e6	1.971e6	1.464e5	1.473e5	0.99	NO	2.936e5	148.28	148.28	0.616
2	Total Hepta-Furans	37.75	4.127e4	4.193e4	2.938e3	3.087e3	0.95	NO	6.025e3	3.5038	3.5038	0.662
3	Total Hepta-Furans	37.98	1.803e6	1.782e6	1.422e5	1.435e5	0.99	NO	2.857e5	166.15	166.15	0.662
4	1,2,3,4,7,8,9-HpCDF	39.31	8.760e5	8.684e5	5.583e4	5.616e4	0.99	NO	1.120e5	66.199	66.199	0.624

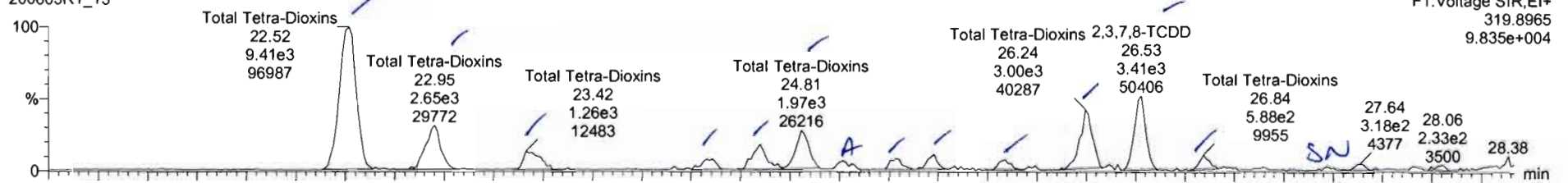
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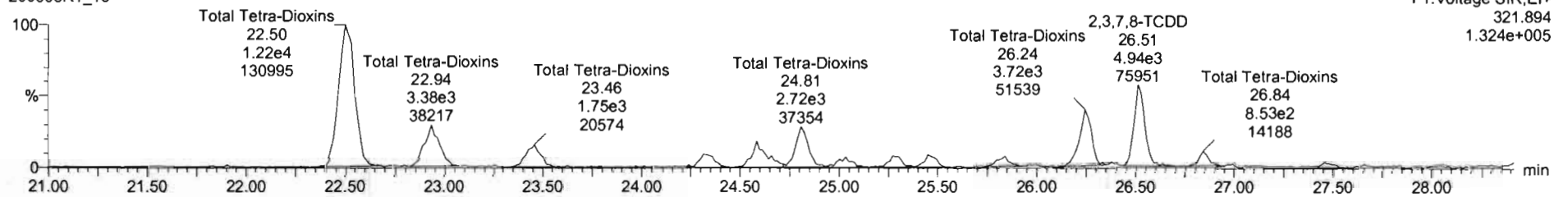
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2,3,7,8-TCDD

200603R1_13

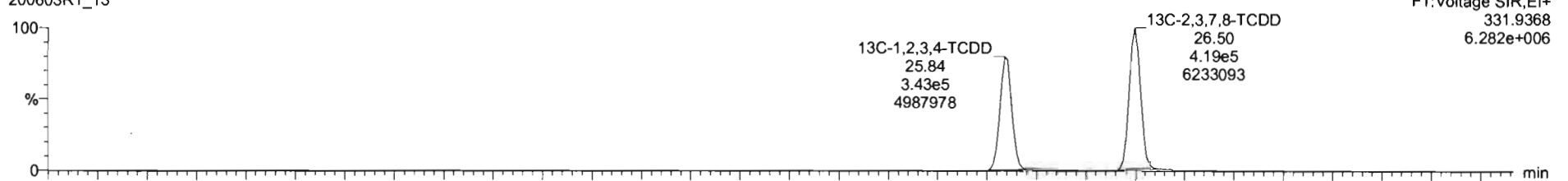


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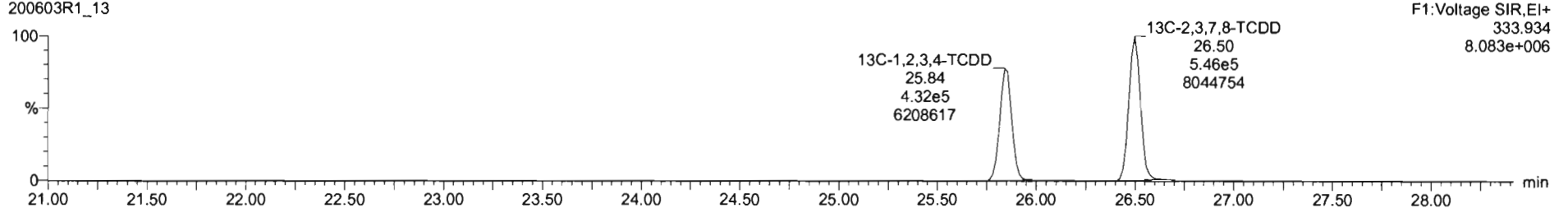


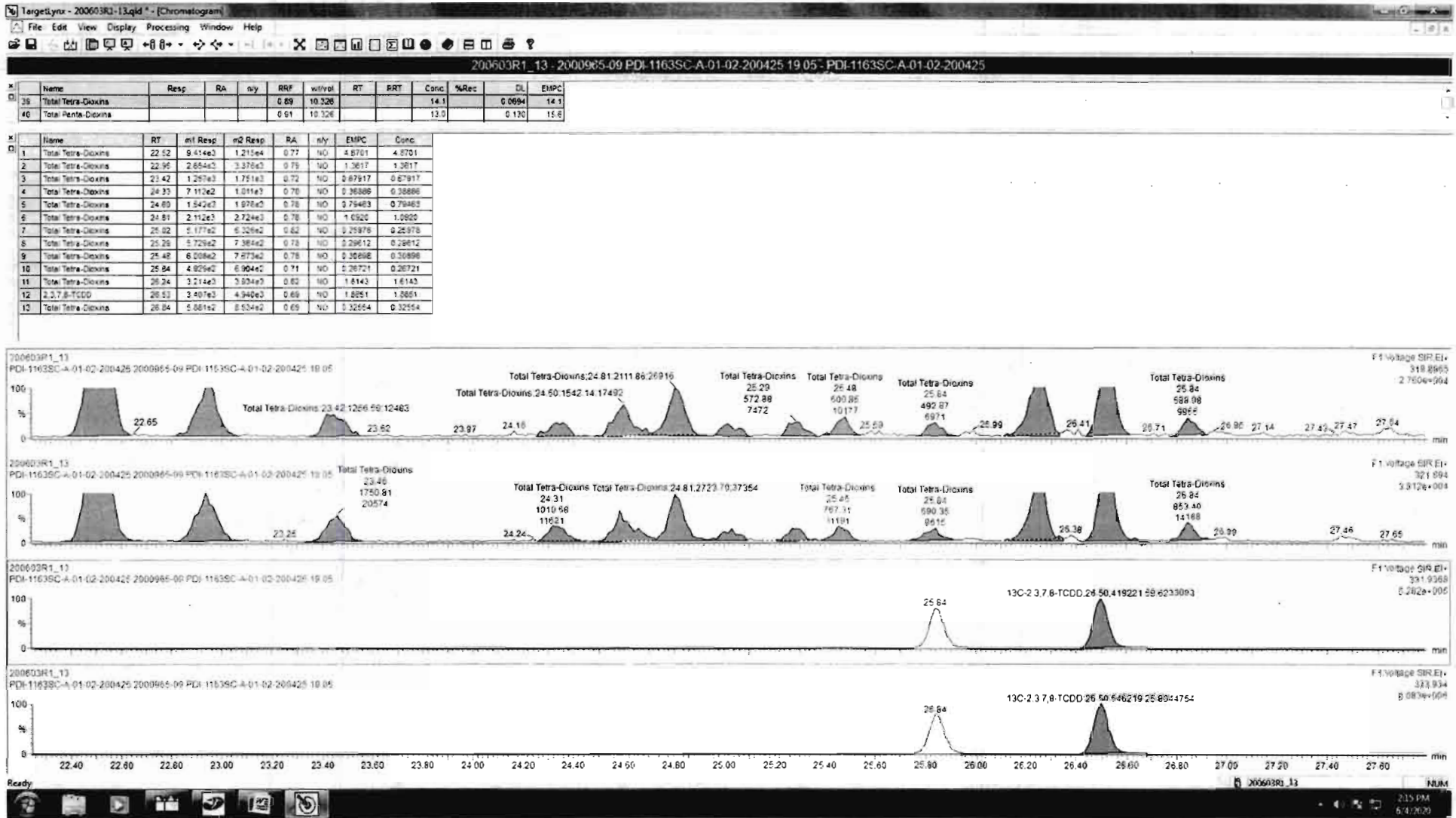
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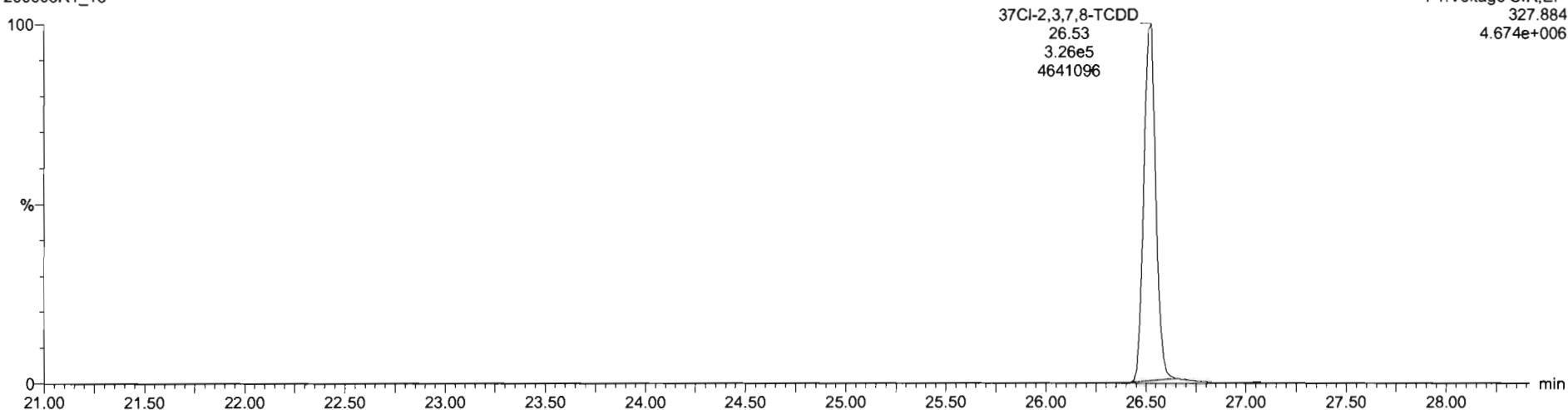
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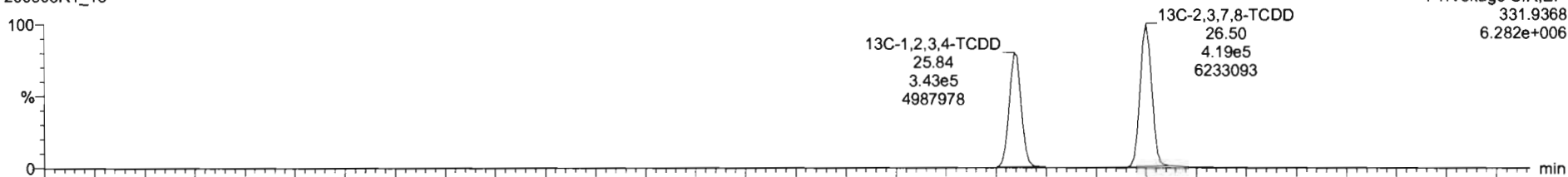
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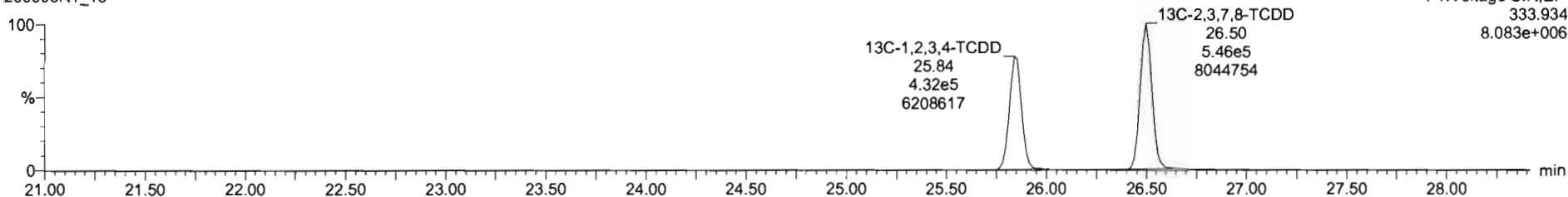


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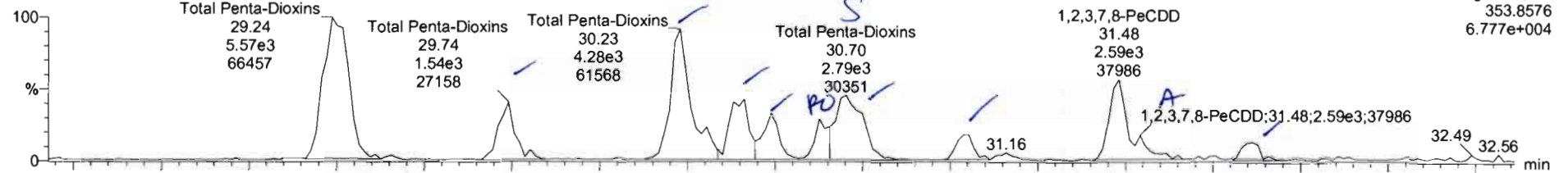
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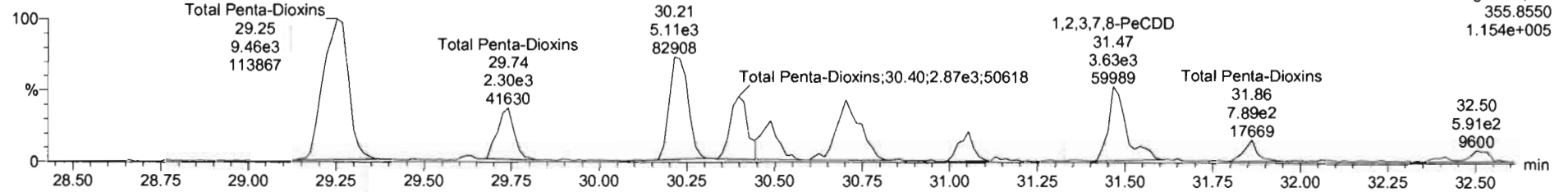
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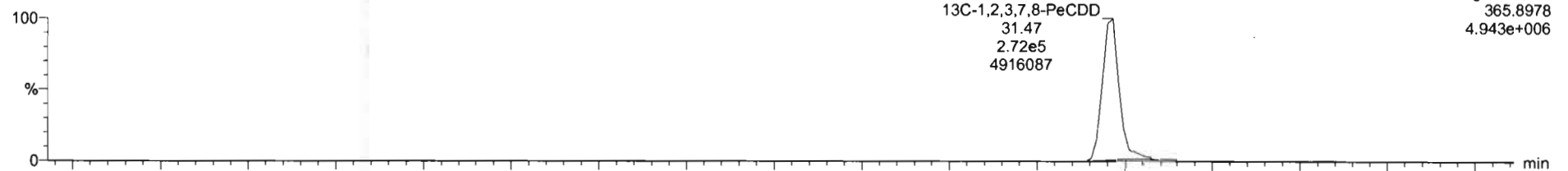


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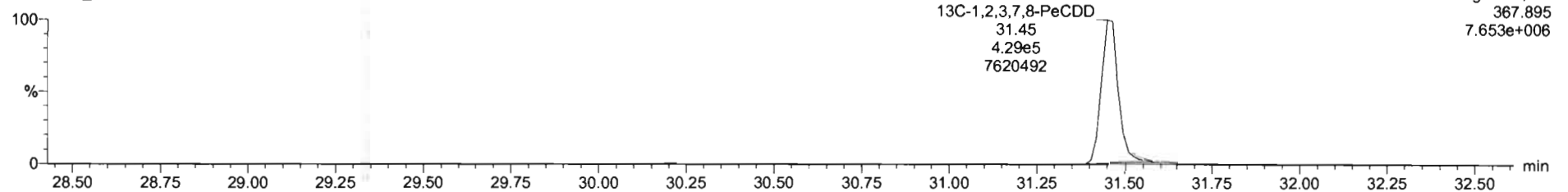


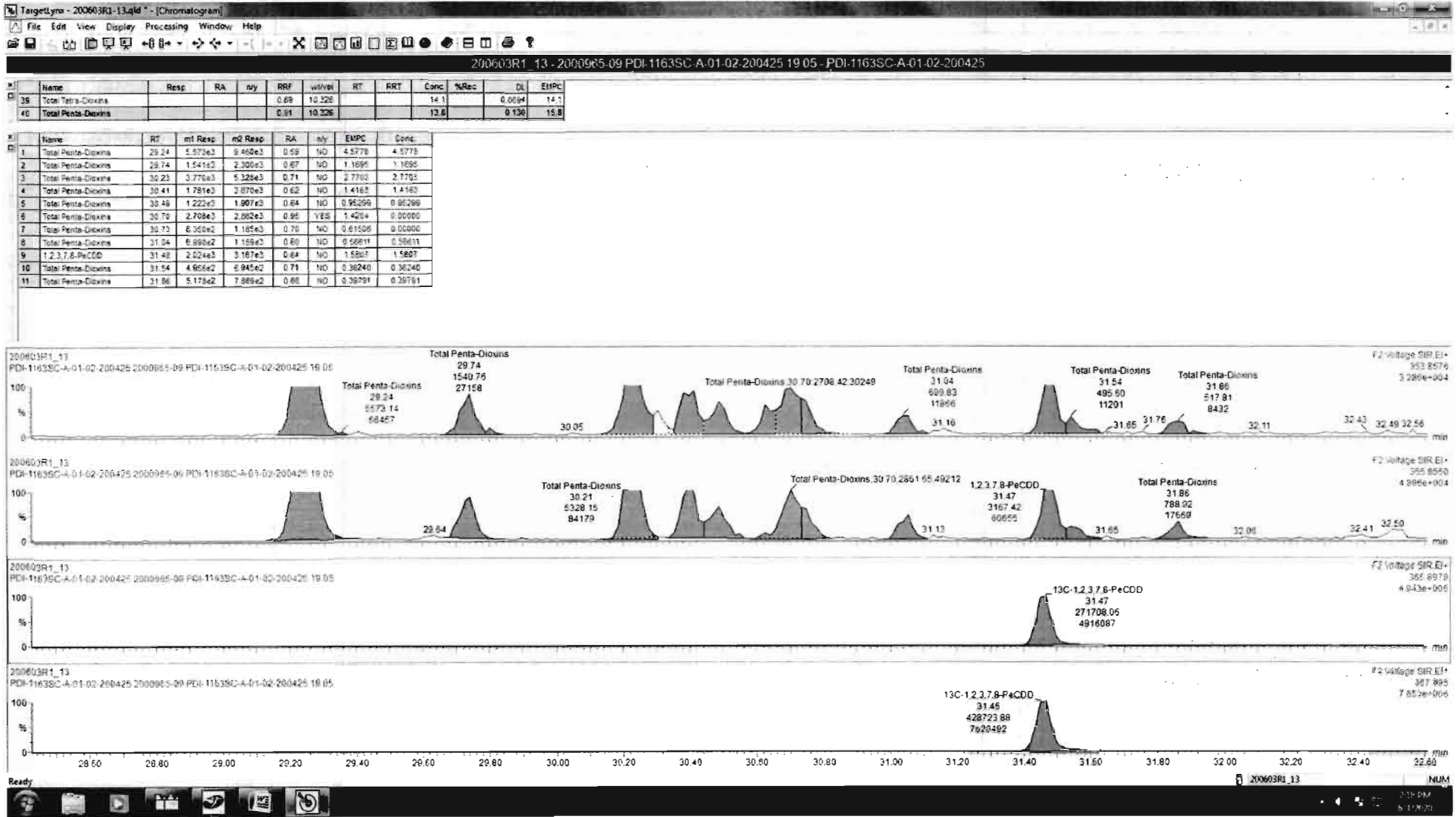
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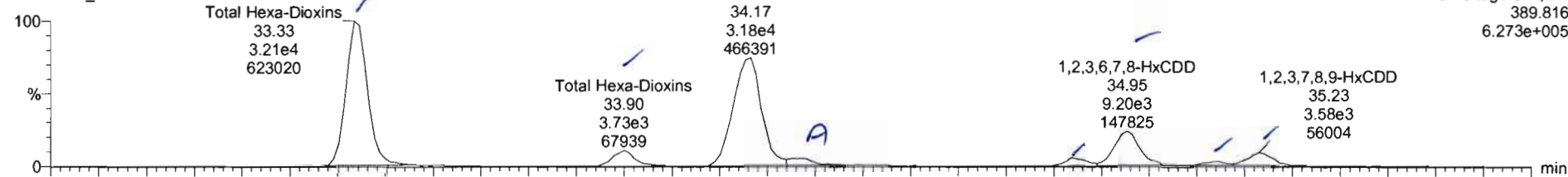
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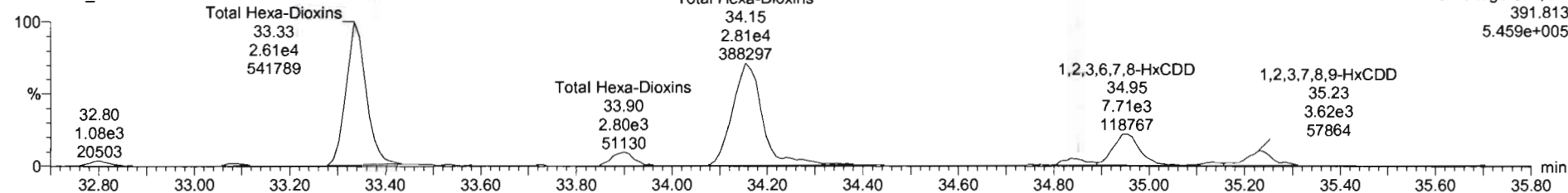
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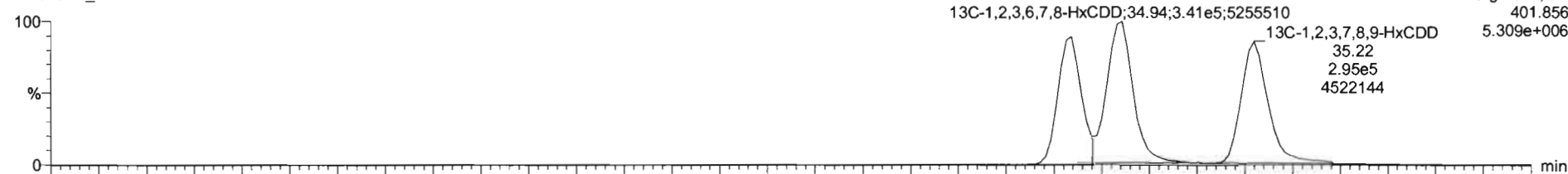


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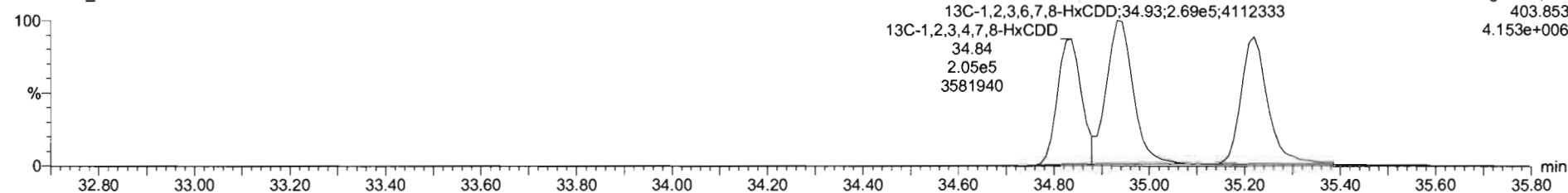


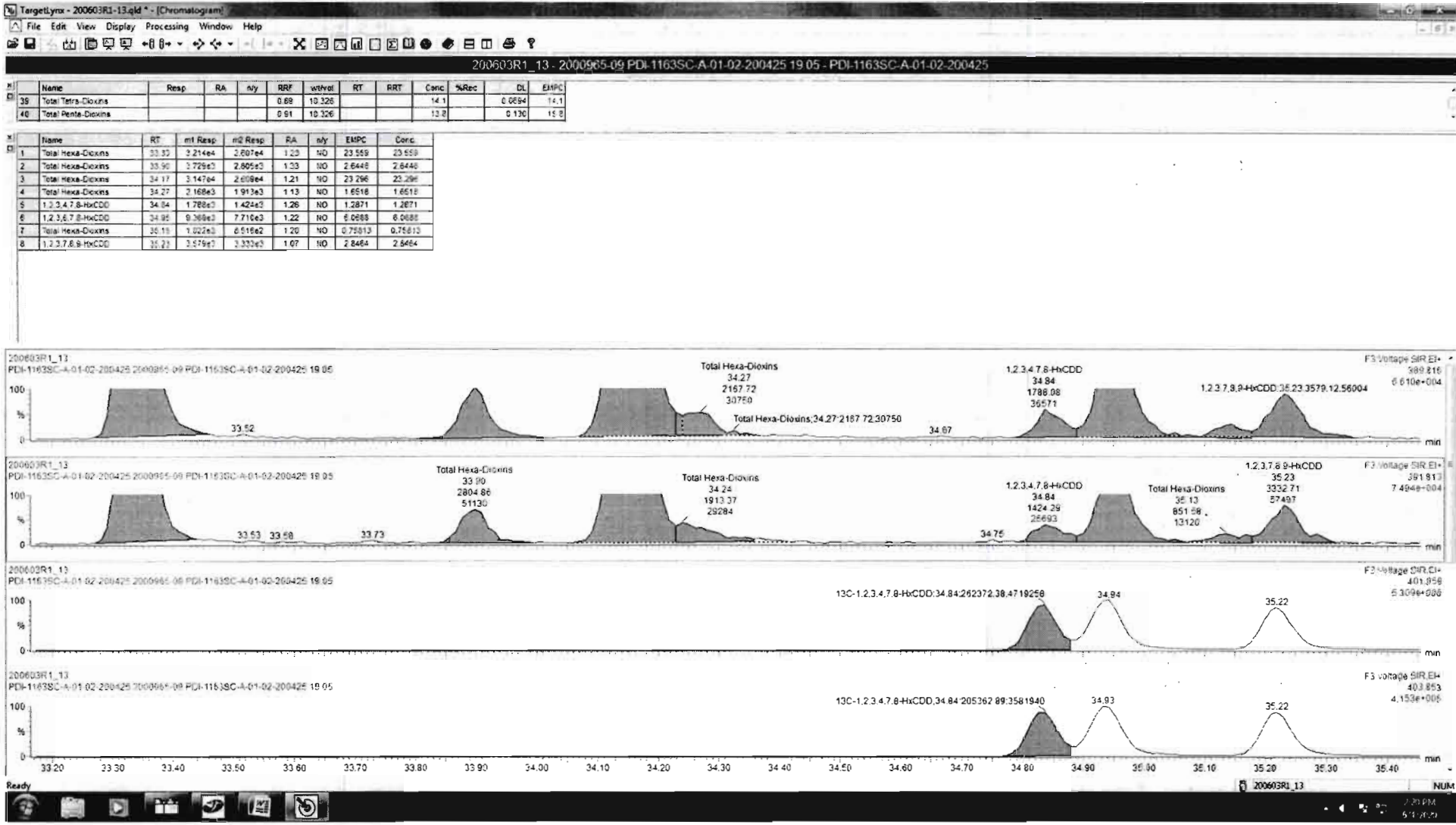
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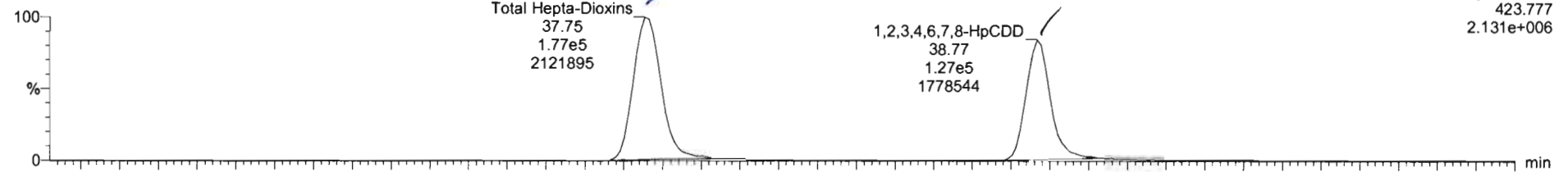
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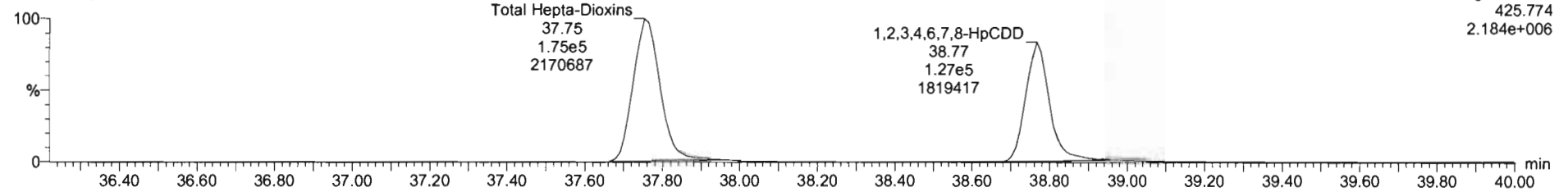
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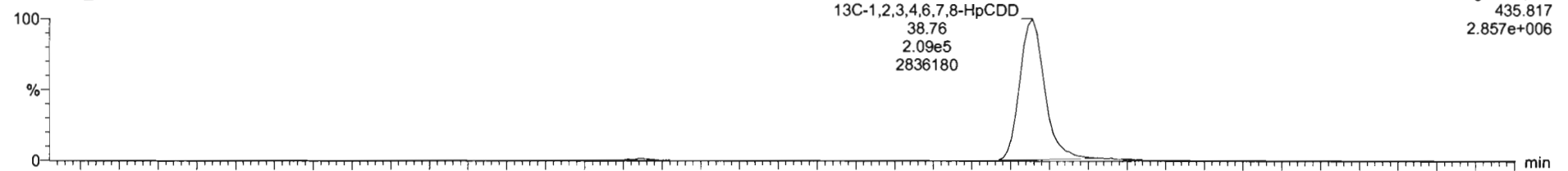


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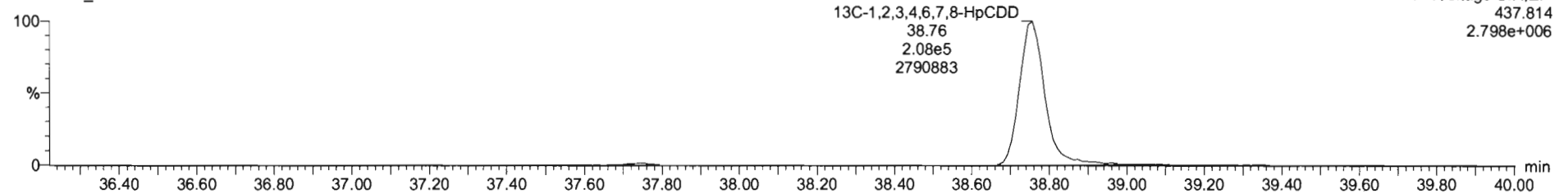


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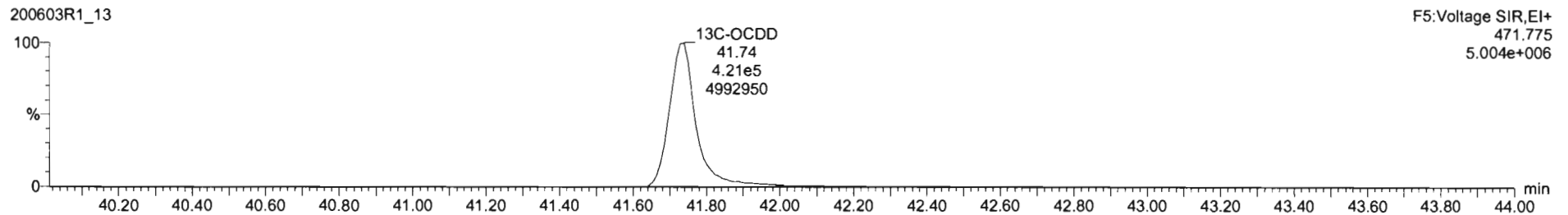
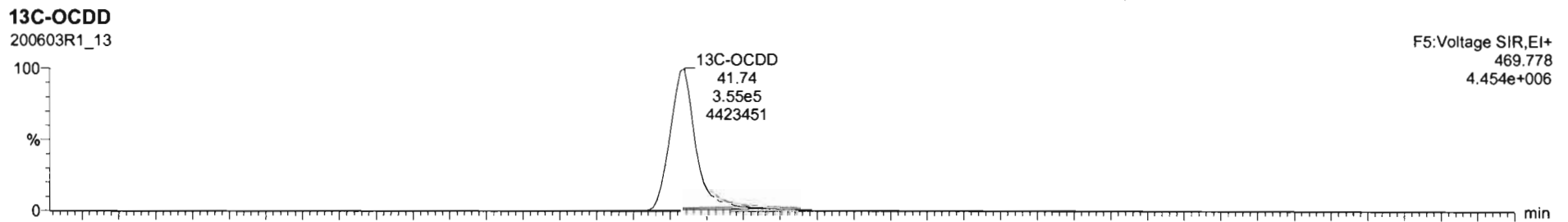
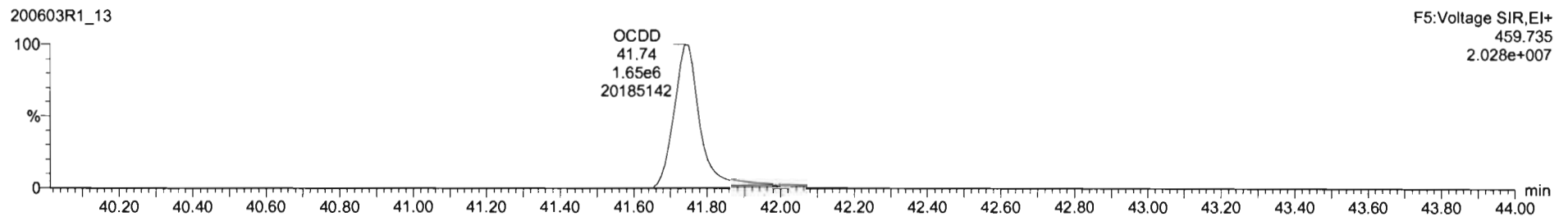
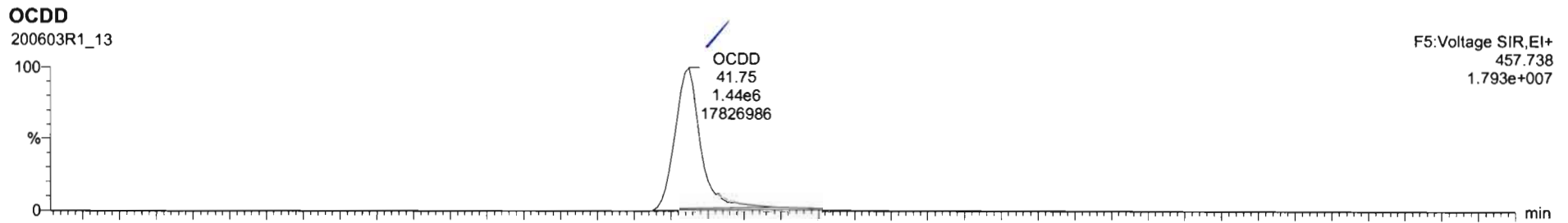
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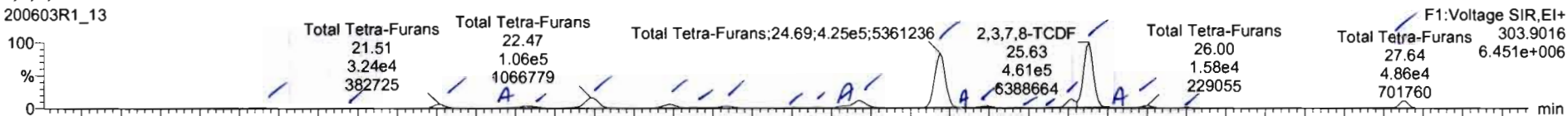
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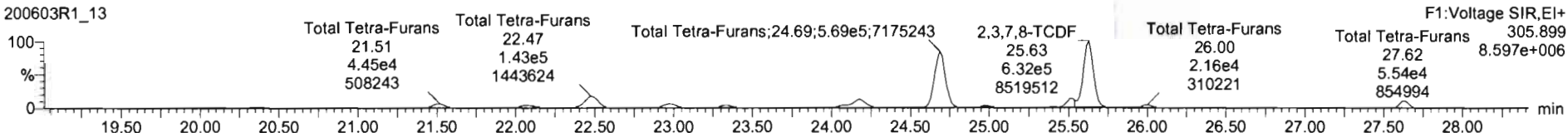
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2,3,7,8-TCDF

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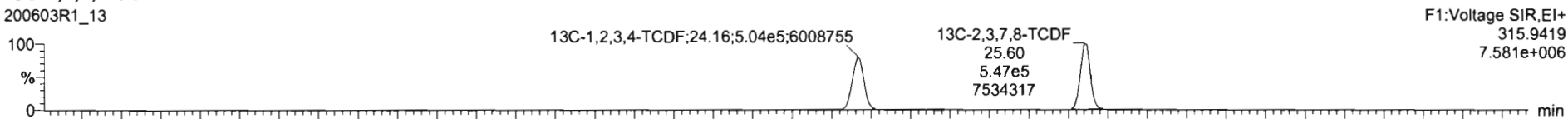


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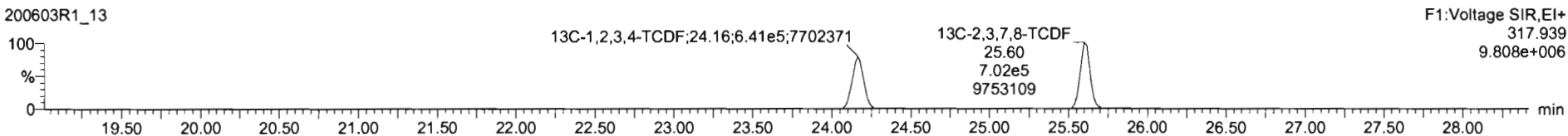


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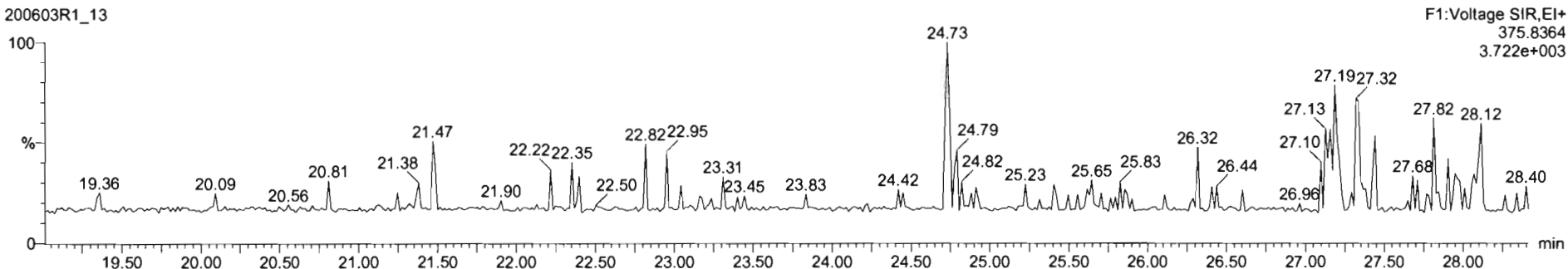


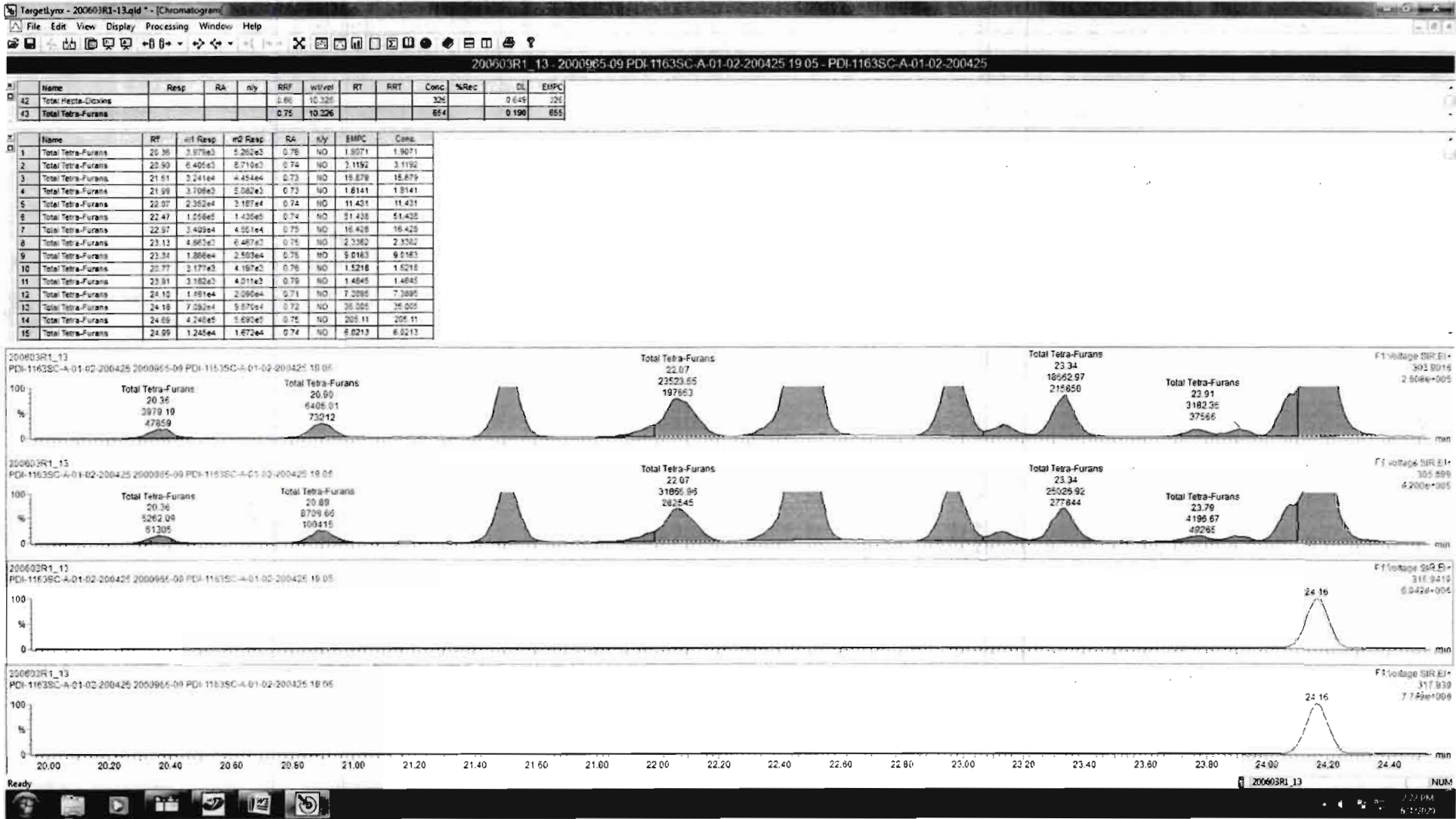
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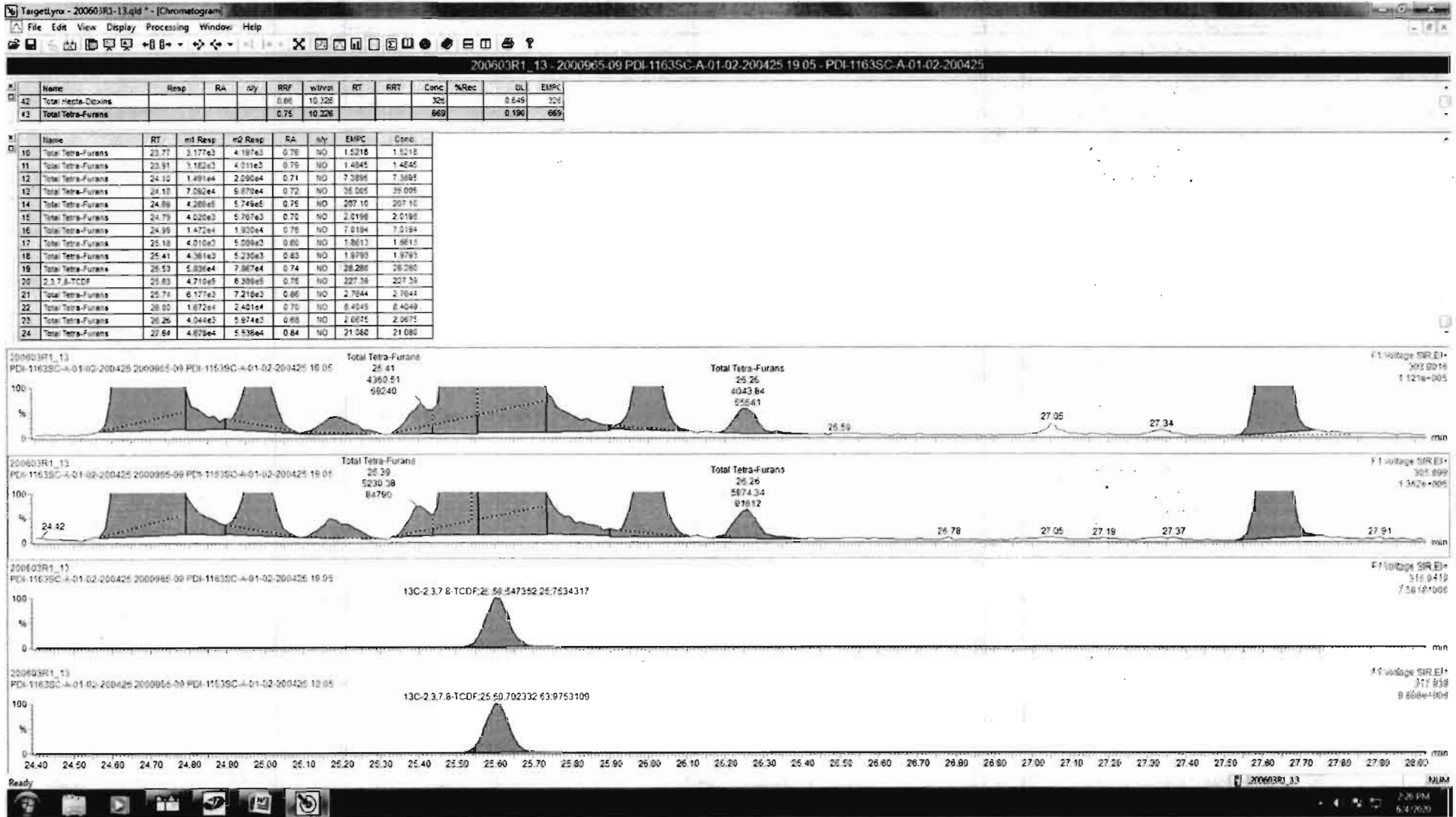


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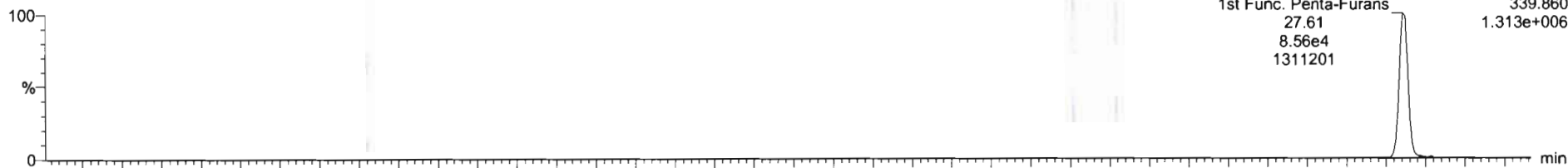
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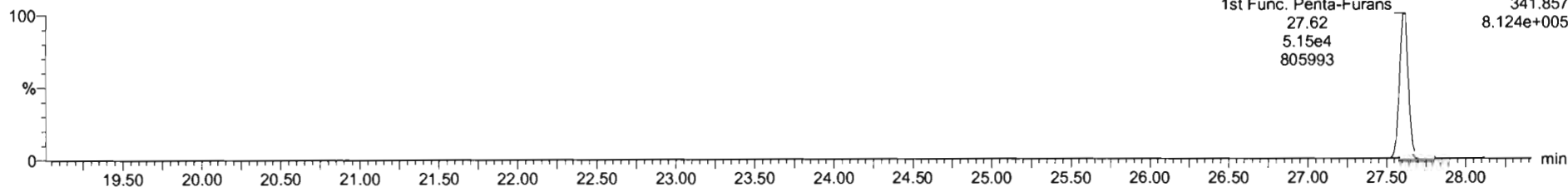
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1st Func. Penta-Furans

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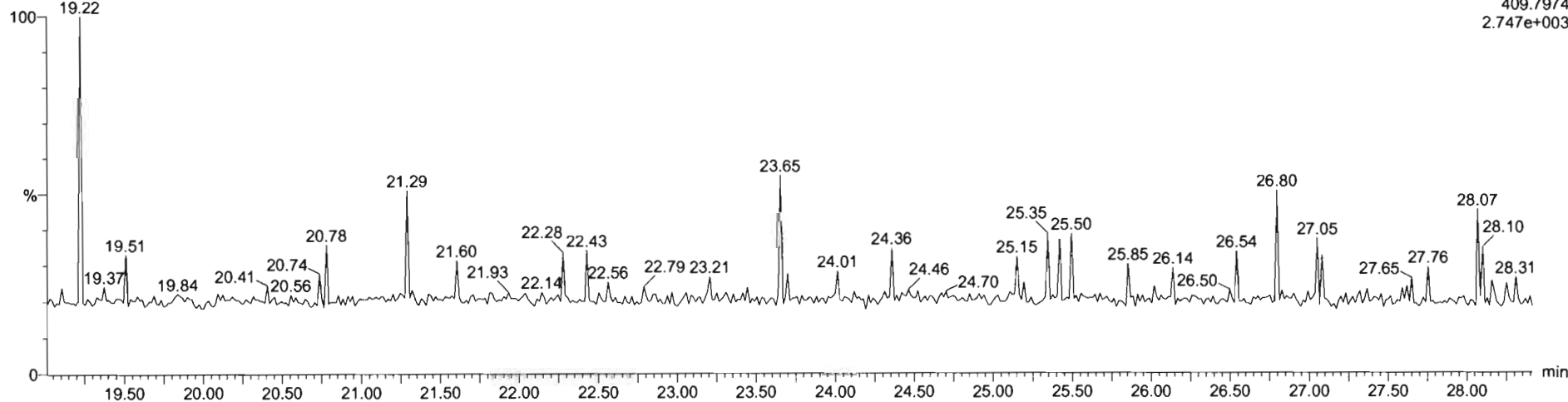


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DPE6

200603R1_13

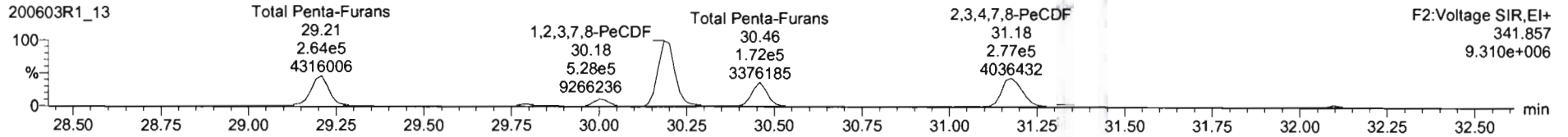
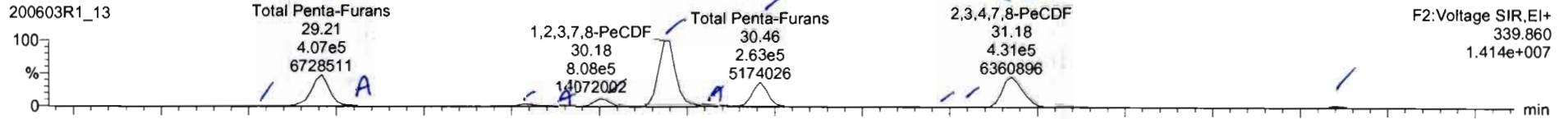


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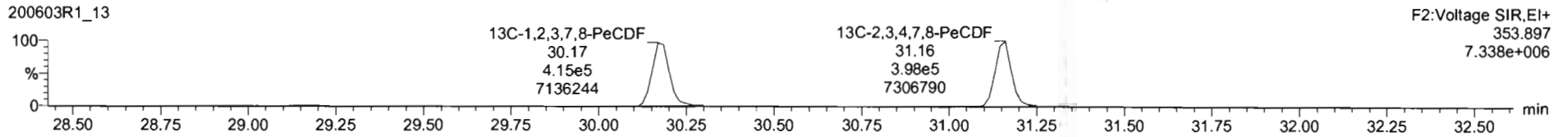
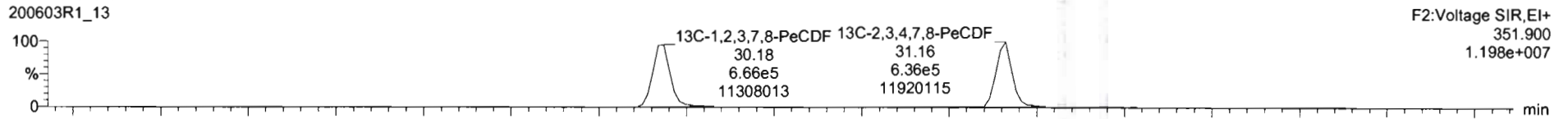
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Name: 200603R1_13, Date: 03-Jun-2020, Time: 17:25:11, ID: 2000965-09 PDI-1163SC-A-01-02-200425 19.05, Description: PDI-1163SC-A-01-02-200425

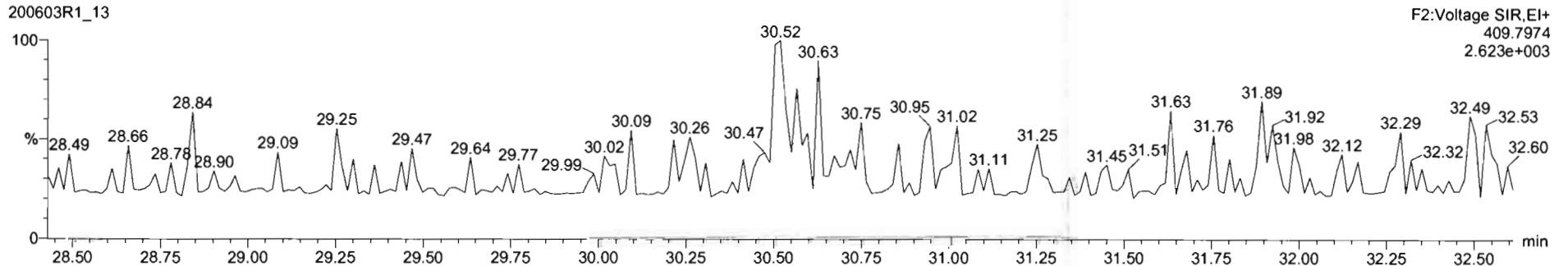
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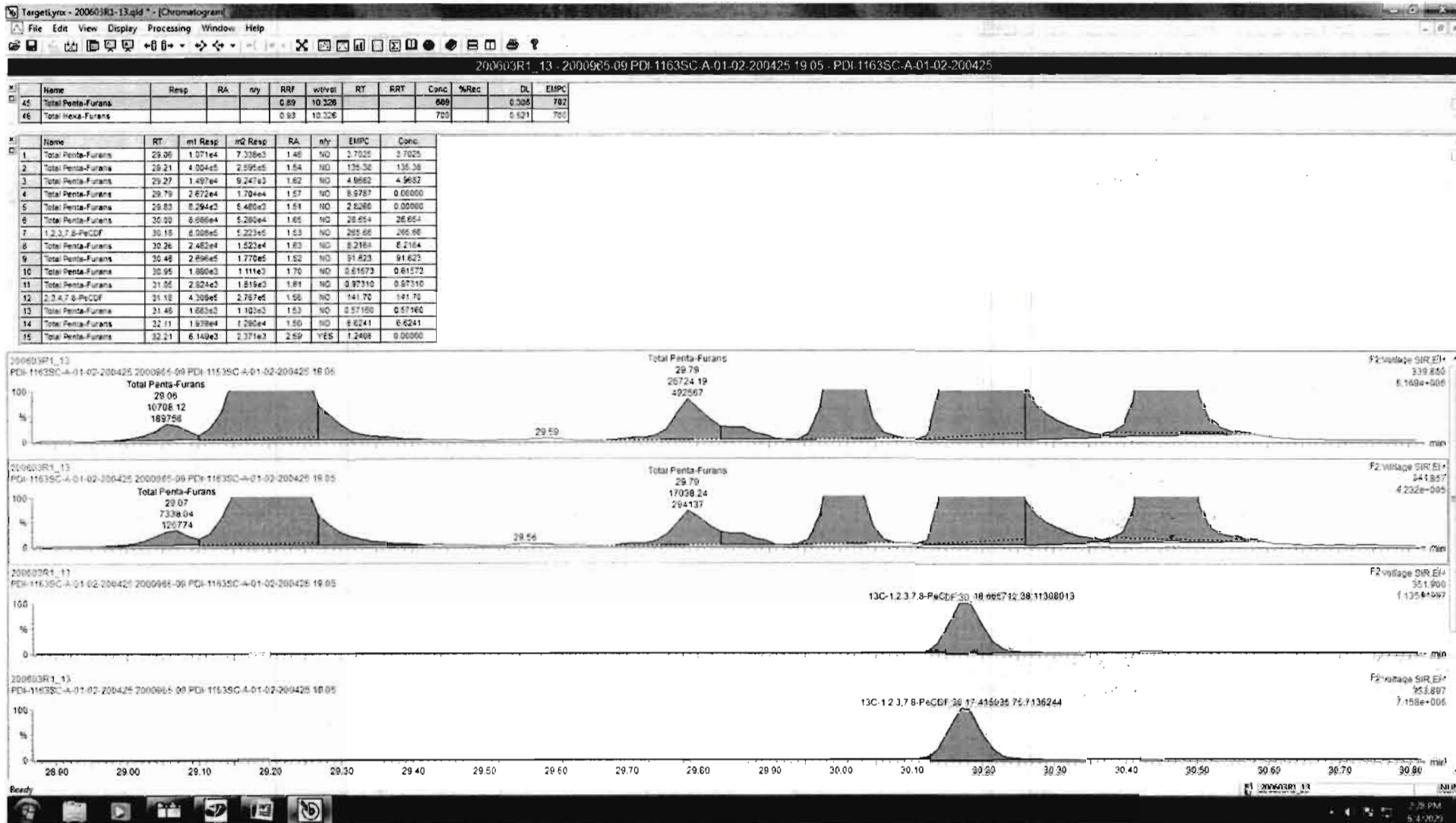


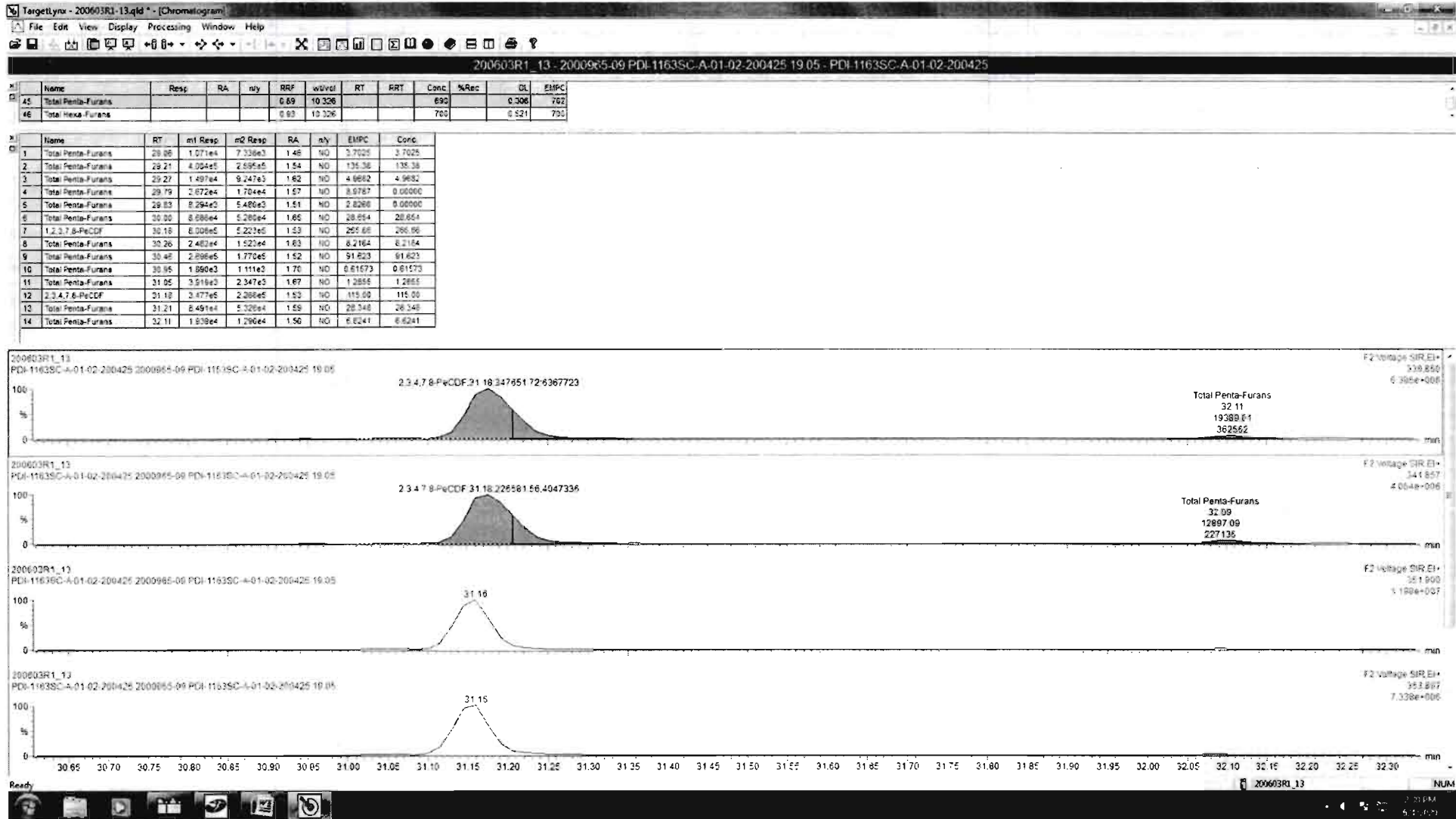
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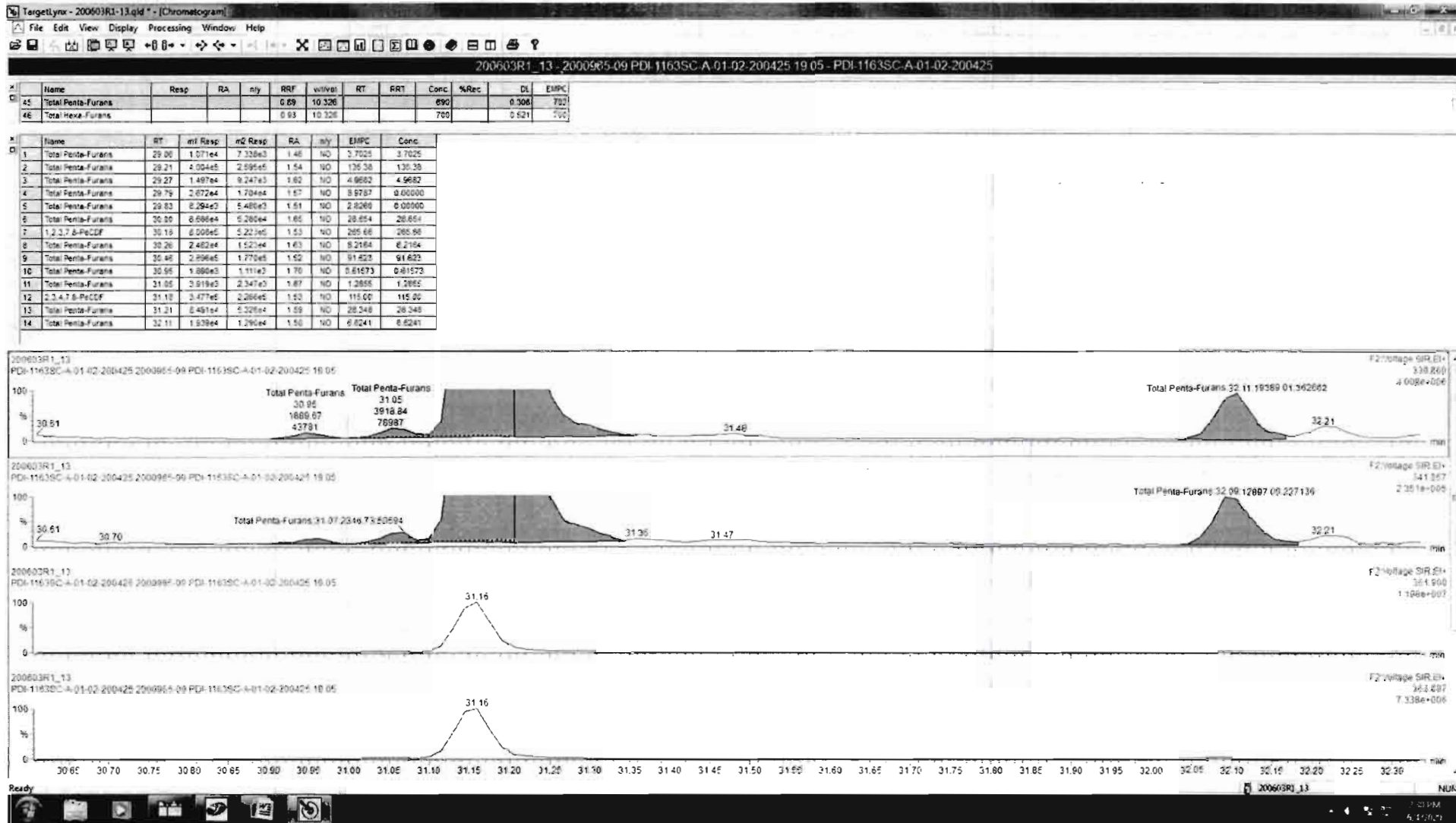


DPE2







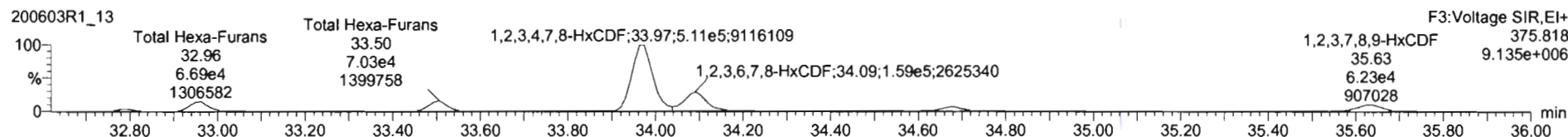
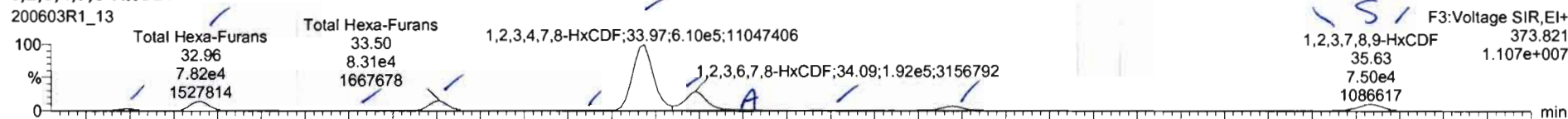


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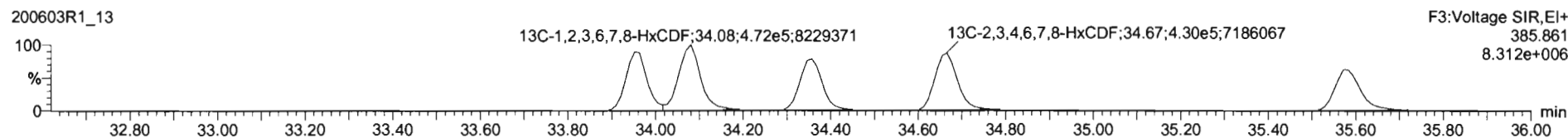
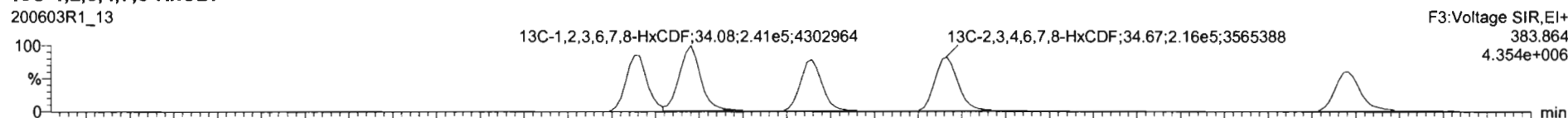
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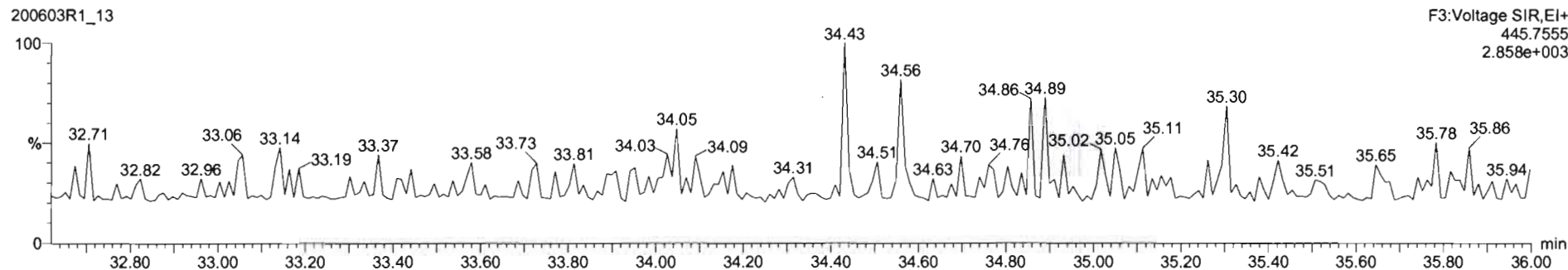
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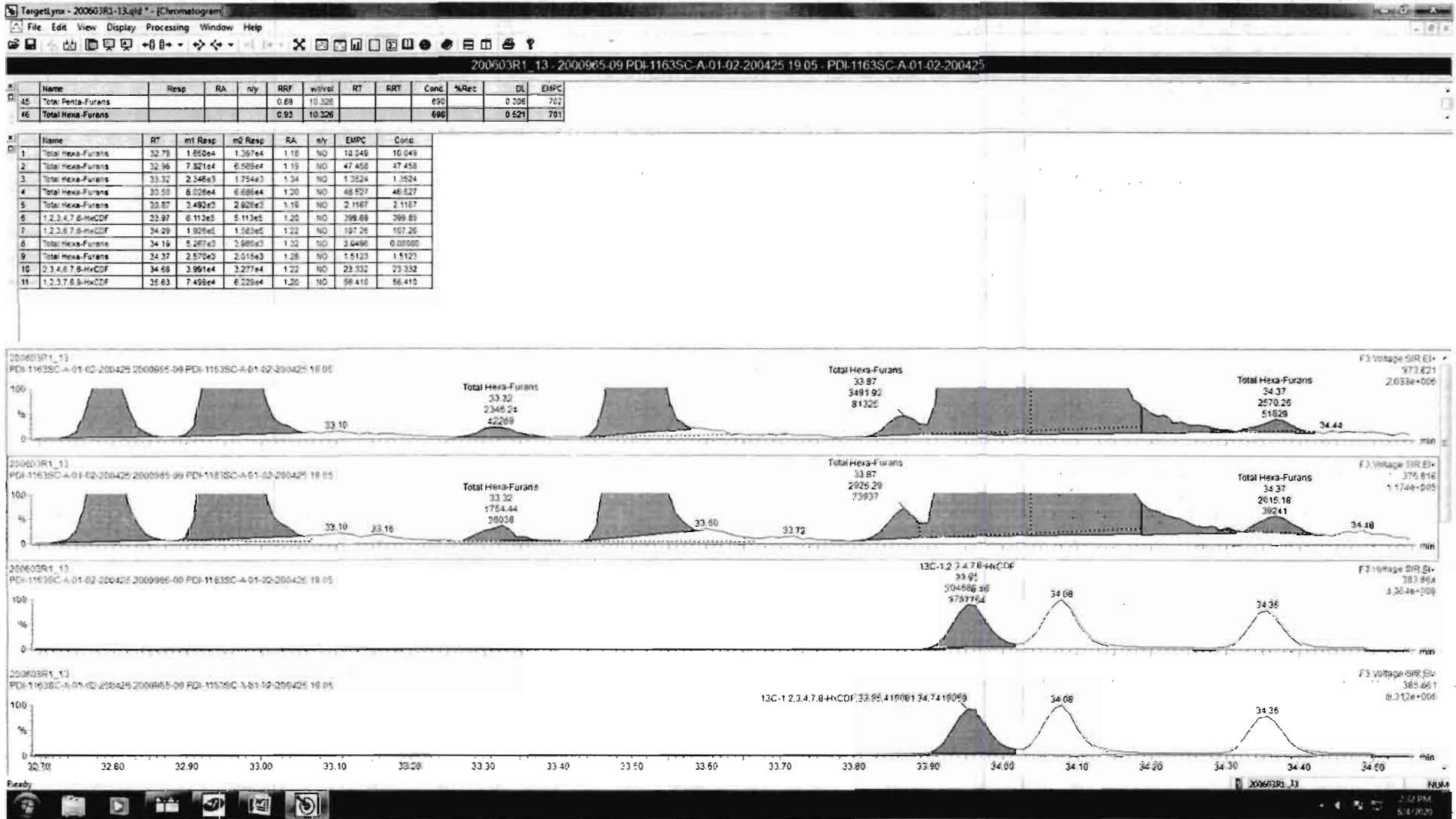


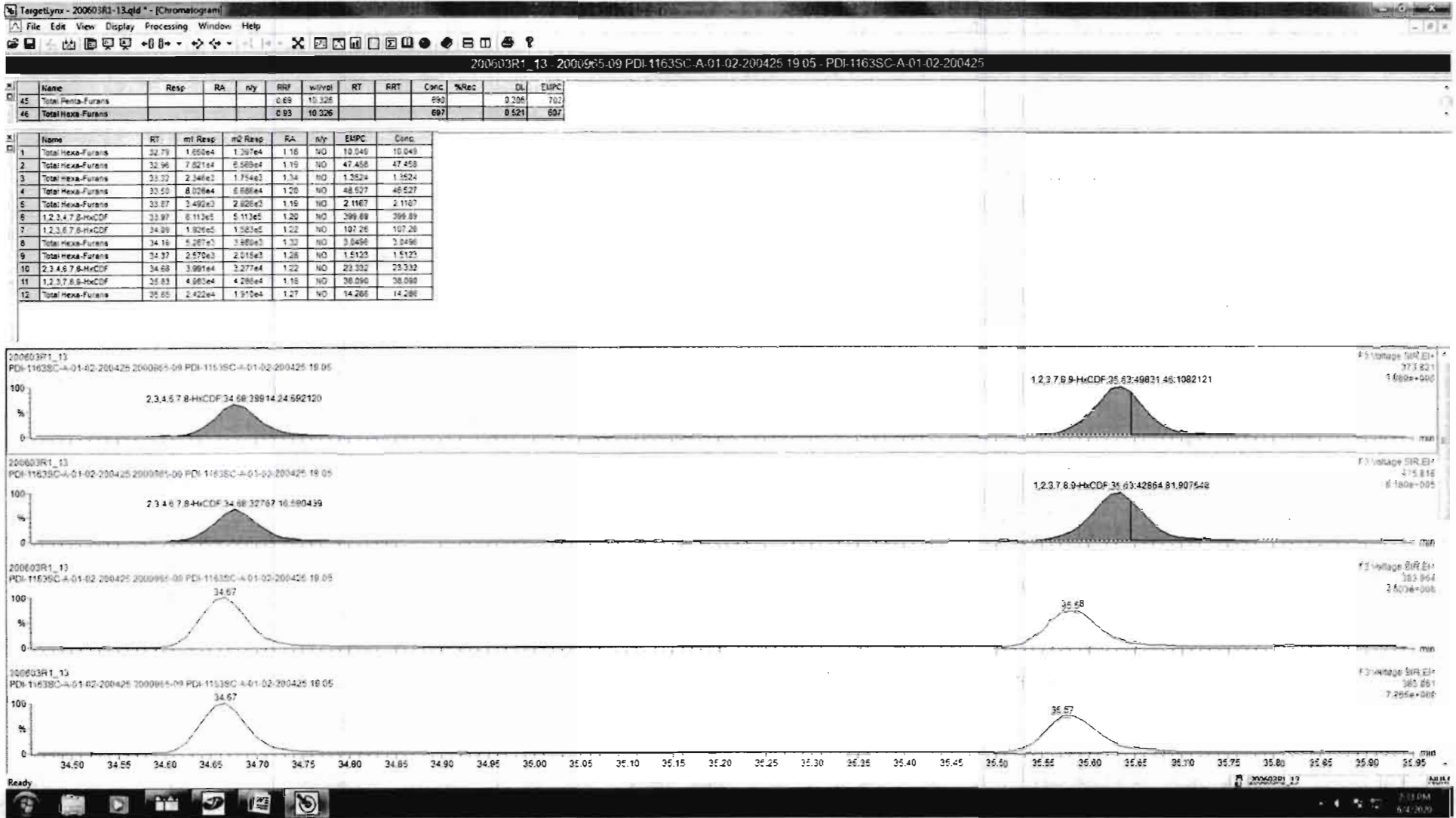
13C-1,2,3,4,7,8-HxCDF



DPE3







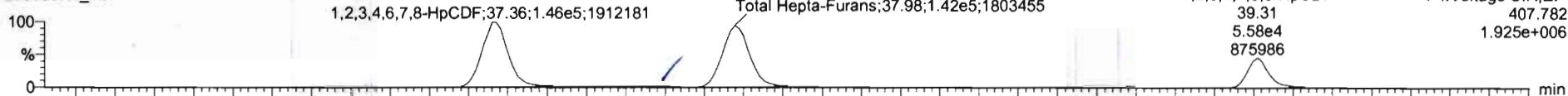
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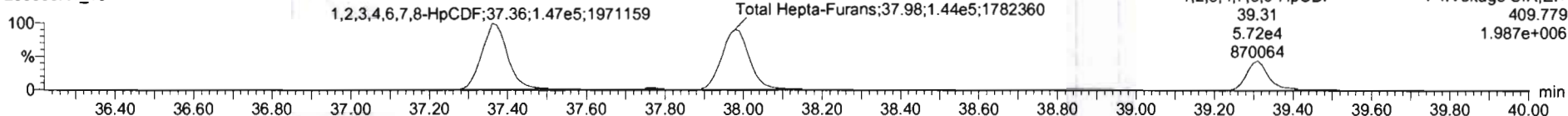
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1,2,3,4,6,7,8-HpCDF

200603R1_13

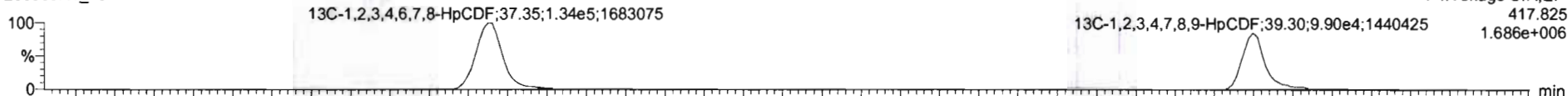


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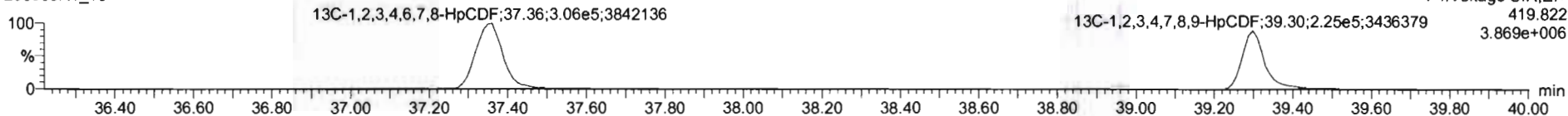


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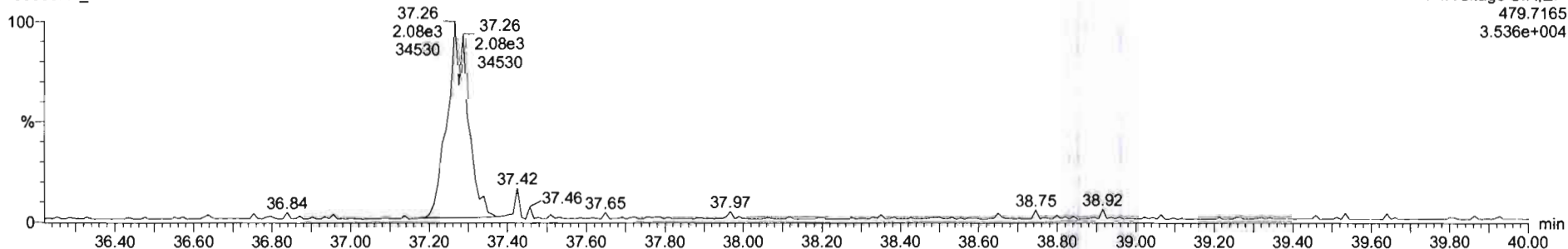


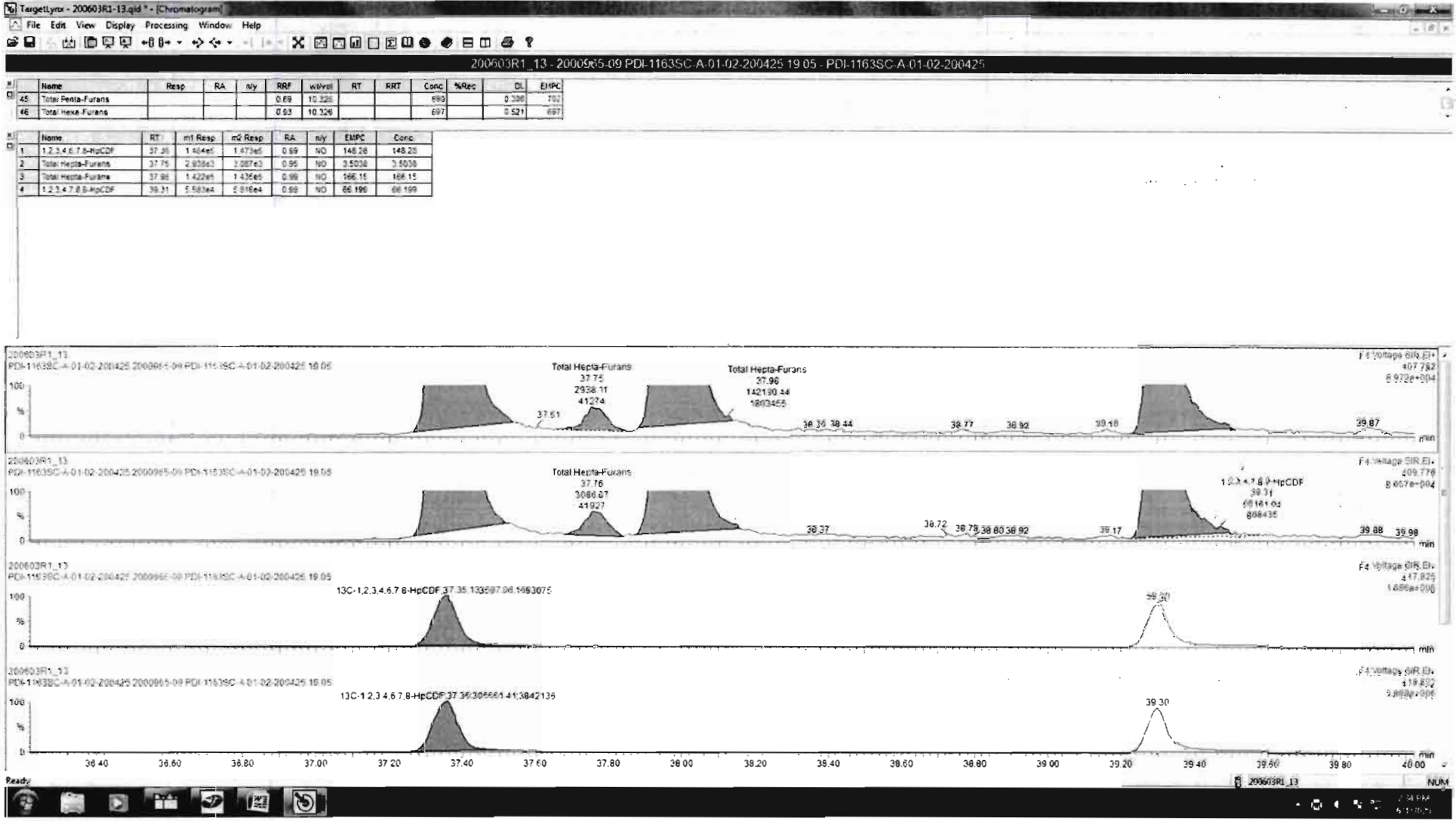
200603R1_13



DPE4

200603R1_13

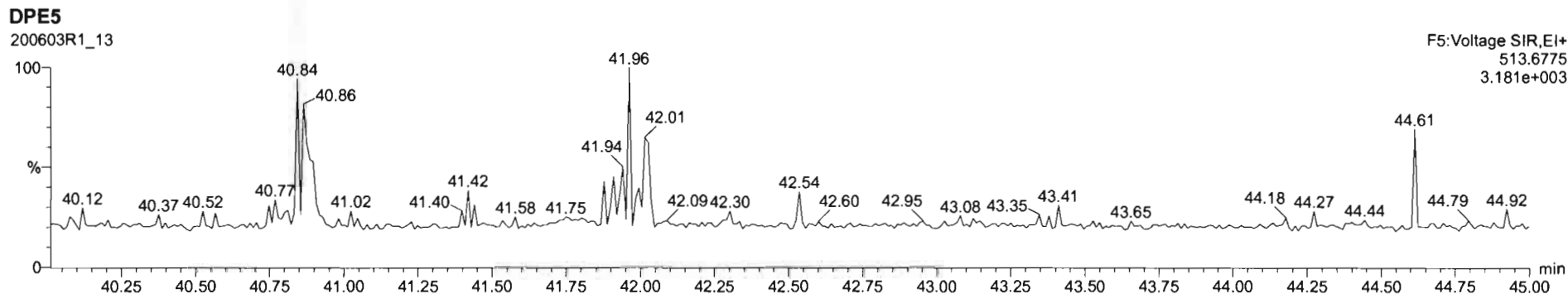
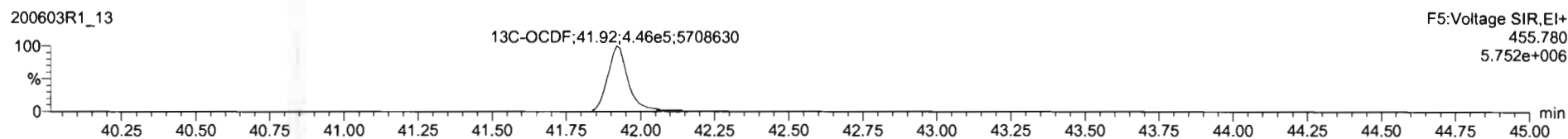
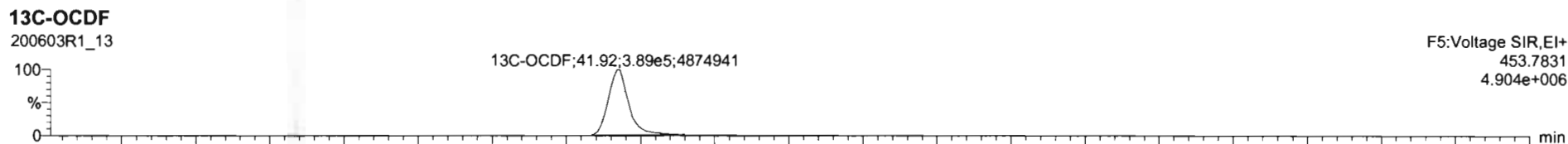
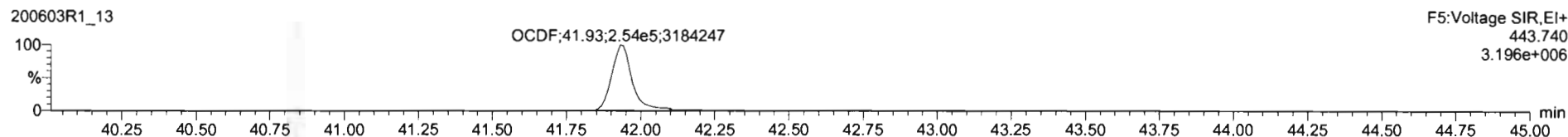
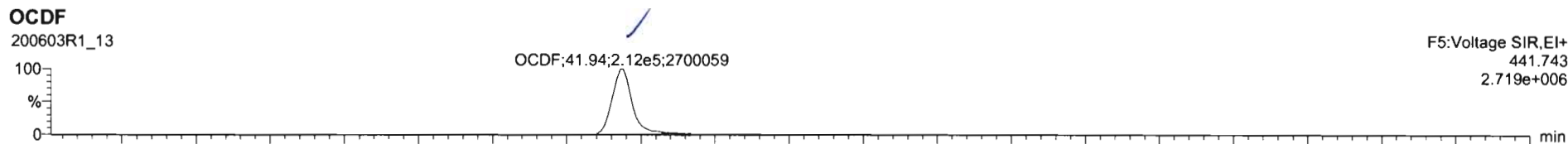




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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_13, Date: 03-Jun-2020, Time: 17:25:11, ID: 2000965-09 PDI-1163SC-A-01-02-200425 19.05, Description: PDI-1163SC-A-01-02-200425



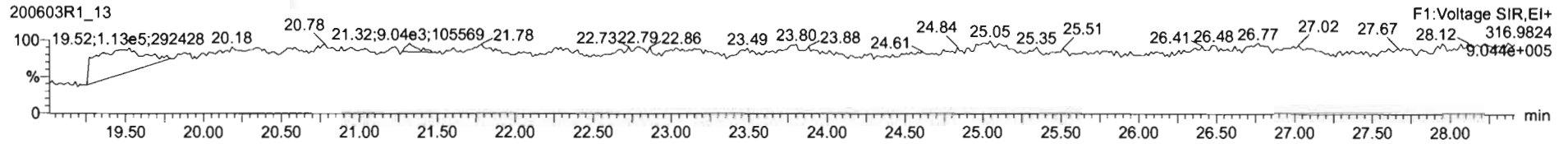
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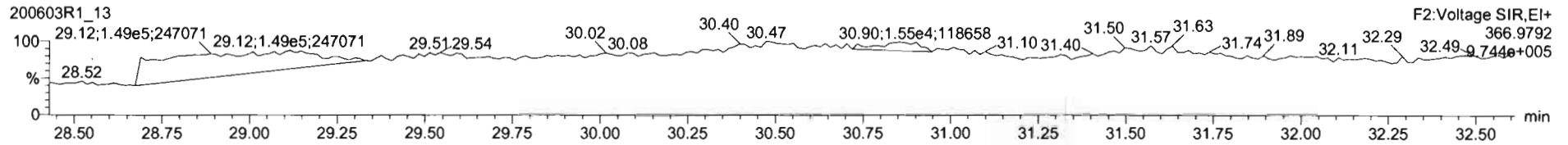
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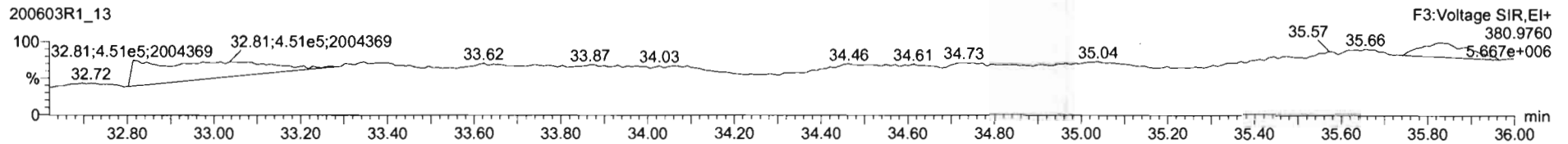
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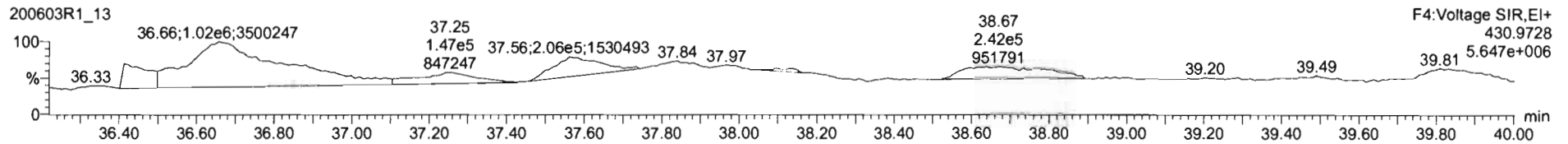
PFK2



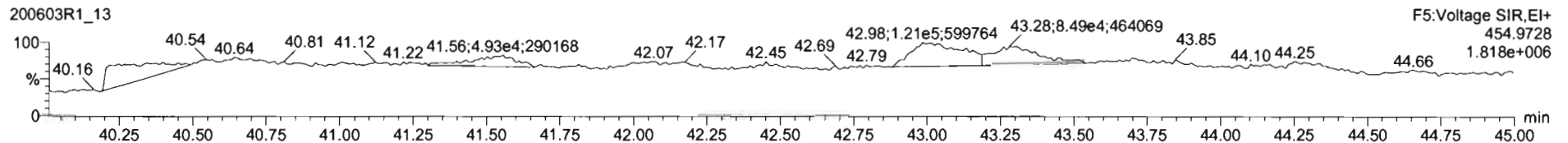
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R1\200603R1-14.qld

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BPB 06/04/2020

C706/05/2020

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_14, Date: 03-Jun-2020, Time: 18:11:21, ID: 2000965-10 PDI-163SC-A-00-01-200425 20.29, Description: PDI-163SC-A-00-01-200425,

Task: ST200603R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.41e3	0.76	NO	0.888	10.050	26.531	26.51	1.00	1.001	0.95808		0.0876	0.958
2	1,2,3,7,8-PeCDD	4.46e3	0.70	NO	0.908	10.050	31.488	31.48	1.00	1.001	1.7194		0.213	1.72
3	1,2,3,4,7,8-HxCDD	3.18e3	1.16	NO	1.03	10.050	34.836	34.84	1.00	1.000	1.5998		0.293	1.60
4	1,2,3,6,7,8-HxCDD	2.45e4	1.20	NO	0.892	10.050	34.933	34.95	1.00	1.001	11.625		0.301	11.6
5	1,2,3,7,8,9-HxCDD	1.04e4	1.15	NO	0.887	10.050	35.231	35.23	1.00	1.000	5.4631		0.344	5.46
6	1,2,3,4,6,7,8-HpCDD	3.49e5	1.06	NO	0.864	10.050	38.768	38.77	1.00	1.000	249.32		0.787	249
7	OCDD	4.22e6	0.88	NO	0.914	10.050	41.738	41.75	1.00	1.000	2889.4		0.957	2890
8	2,3,7,8-TCDF	1.70e5	0.73	NO	0.751	10.050	25.627	25.63	1.00	1.001	43.270	(33.5)	0.142	43.3
9	1,2,3,7,8-PeCDF	2.27e5	1.55	NO	0.893	10.050	30.206	30.20	1.00	1.001	57.803		0.288	57.8
10	2,3,4,7,8-PeCDF	1.02e5	1.55	NO	0.935	10.050	31.180	31.18	1.00	1.001	24.839		0.240	24.8
11	1,2,3,4,7,8-HxCDF	2.69e5	1.20	NO	0.884	10.050	33.953	33.97	1.00	1.001	119.21		0.315	119
12	1,2,3,6,7,8-HxCDF	8.23e4	1.23	NO	0.889	10.050	34.091	34.09	1.00	1.000	31.863		0.288	31.9
13	2,3,4,6,7,8-HxCDF	1.99e4	1.27	NO	0.934	10.050	34.702	34.68	1.00	1.000	8.0198		0.306	8.02
14	1,2,3,7,8,9-HxCDF	1.73e4	1.16	NO	0.871	10.050	35.572	35.63	1.00	1.001	8.4610		0.439	8.46
15	1,2,3,4,6,7,8-HpCDF	1.64e5	1.00	NO	0.873	10.050	37.377	37.36	1.00	1.001	93.611		0.375	93.6
16	1,2,3,4,7,8,9-HpCDF	2.89e4	1.00	NO	1.01	10.050	39.299	39.31	1.00	1.000	21.815		0.452	21.8
17	OCDF	2.87e5	0.83	NO	0.806	10.050	41.930	41.94	1.00	1.000	212.14		0.329	212
18	13C-2,3,7,8-TCDD	7.97e5	0.78	NO	1.16	10.050	26.522	26.50	1.03	1.026	208.25	105	0.210	
19	13C-1,2,3,7,8-PeCDD	5.69e5	0.63	NO	0.849	10.050	31.711	31.47	1.23	1.218	202.39	102	0.391	
20	13C-1,2,3,4,7,8-HxCDD	3.83e5	1.27	NO	0.779	10.050	34.841	34.83	1.01	1.014	195.06	98.0	0.617	
21	13C-1,2,3,6,7,8-HxCDD	4.71e5	1.26	NO	1.02	10.050	34.955	34.93	1.02	1.017	183.76	92.3	0.473	
22	13C-1,2,3,7,8,9-HxCDD	4.27e5	1.25	NO	0.903	10.050	35.226	35.22	1.03	1.025	187.98	94.5	0.532	
23	13C-1,2,3,4,6,7,8-HpCDD	3.22e5	1.01	NO	0.689	10.050	38.751	38.76	1.13	1.128	185.61	93.3	0.504	
24	13C-OCDD	6.36e5	0.85	NO	0.652	10.050	41.775	41.74	1.22	1.215	387.03	97.2	0.727	
25	13C-2,3,7,8-TCDF	1.04e6	0.75	NO	1.06	10.050	25.564	25.60	0.99	0.991	200.10	101	0.374	
26	13C-1,2,3,7,8-PeCDF	8.76e5	1.59	NO	0.838	10.050	30.093	30.18	1.16	1.168	212.79	107	0.664	
27	13C-2,3,4,7,8-PeCDF	8.76e5	1.50	NO	0.817	10.050	31.047	31.16	1.20	1.206	218.51	110	0.682	
28	13C-1,2,3,4,7,8-HxCDF	5.07e5	0.50	NO	1.01	10.050	33.972	33.95	0.99	0.988	199.86	100	0.721	
29	13C-1,2,3,6,7,8-HxCDF	5.78e5	0.50	NO	1.17	10.050	34.096	34.08	0.99	0.992	196.65	98.8	0.622	
30	13C-2,3,4,6,7,8-HxCDF	5.28e5	0.51	NO	1.02	10.050	34.670	34.67	1.01	1.009	205.05	103	0.710	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-14.qld

Last Altered: Thursday, June 04, 2020 14:05:13 Pacific Daylight Time

Printed: Thursday, June 04, 2020 14:12:37 Pacific Daylight Time

Name: 200603R1_14, Date: 03-Jun-2020, Time: 18:11:21, ID: 2000965-10 PDI-163SC-A-00-01-200425 20.29, Description: PDI-163SC-A-00-01-200425,
 Task: ST200603R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	4.66e5	0.52	NO	0.860	10.050	35.570	35.57	1.04	1.035	215.26	108	0.845	
32	13C-1,2,3,4,6,7,8-HpCDF	3.99e5	0.43	NO	0.774	10.050	37.319	37.34	1.09	1.087	204.75	103	0.785	
33	13C-1,2,3,4,7,8,9-HpCDF	2.61e5	0.43	NO	0.521	10.050	39.349	39.30	1.15	1.144	198.54	99.8	1.17	
34	13C-OCDF	6.67e5	0.90	NO	0.746	10.050	41.946	41.93	1.22	1.220	355.14	89.2	0.704	
35	37Cl-2,3,7,8-TCDD	2.70e5			1.04	10.050	26.553	26.51	1.03	1.026	78.592	98.7	0.147	
36	13C-1,2,3,4-TCDD	6.59e5	0.81	NO	1.00	10.050	25.890	25.84	1.00	1.000	199.01	100	0.243	
37	13C-1,2,3,4-TCDF	9.77e5	0.79	NO	1.00	10.050	24.360	24.16	1.00	1.000	199.01	100	0.396	
38	13C-1,2,3,4,6,9-HxCDF	5.01e5	0.49	NO	1.00	10.050	34.420	34.36	1.00	1.000	199.01	100	0.726	
39	Total Tetra-Dioxins				0.888	10.050	24.620		0.00		8.6781		0.0876	8.68
40	Total Penta-Dioxins				0.908	10.050	29.960		0.00		12.963		0.213	14.7
41	Total Hexa-Dioxins				0.892	10.050	33.635		0.00		102.90		0.326	103
42	Total Hepta-Dioxins				0.864	10.050	37.640		0.00		542.03		0.787	542
43	Total Tetra-Furans				0.751	10.050	23.610		0.00		132.19		0.142	133
44	1st Func. Penta-Furans				0.893	10.050	27.580		0.00		18.139		0.0438	18.1
45	Total Penta-Furans				0.893	10.050	29.275		0.00		154.22		0.270	154
46	Total Hexa-Furans				0.934	10.050	33.555		0.00		241.86		0.318	242
47	Total Hepta-Furans				0.873	10.050	37.835		0.00		230.94		0.434	231

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-14.qld

Last Altered: Thursday, June 04, 2020 14:05:13 Pacific Daylight Time

Printed: Thursday, June 04, 2020 14:12:37 Pacific Daylight Time

Method: Untitled 01 Jun 2020 11:54:45

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Name: 200603R1_14, Date: 03-Jun-2020, Time: 18:11:21, ID: 2000965-10 PDI-163SC-A-00-01-200425 20.29, Description: PDI-163SC-A-00-01-200425, Task: ST200603R1_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.50	4.063e4	6.966e4	3.922e3	5.409e3	0.73	NO	9.332e3	2.6222	2.6222	0.0876
2	Total Tetra-Dioxins	22.94	1.690e4	2.116e4	1.668e3	1.928e3	0.87	NO	3.597e3	1.0107	1.0107	0.0876
3	Total Tetra-Dioxins	23.45	1.174e4	1.212e4	9.039e2	1.034e3	0.87	NO	1.938e3	0.54466	0.54466	0.0876
4	Total Tetra-Dioxins	24.31	6.383e3	9.262e3	4.688e2	7.009e2	0.67	NO	1.170e3	0.32867	0.32867	0.0876
5	Total Tetra-Dioxins	24.57	6.016e3	8.519e3	4.495e2	6.585e2	0.68	NO	1.108e3	0.31135	0.31135	0.0876
6	Total Tetra-Dioxins	24.82	1.687e4	1.864e4	1.115e3	1.281e3	0.87	NO	2.396e3	0.67330	0.67330	0.0876
7	Total Tetra-Dioxins	25.27	6.198e3	6.415e3	4.463e2	5.426e2	0.82	NO	9.889e2	0.27788	0.27788	0.0876
8	Total Tetra-Dioxins	25.47	5.539e3	6.875e3	3.192e2	3.953e2	0.81	NO	7.145e2	0.20078	0.20078	0.0876
9	Total Tetra-Dioxins	25.83	4.105e3	5.202e3	2.889e2	3.364e2	0.86	NO	6.254e2	0.17573	0.17573	0.0876
10	Total Tetra-Dioxins	26.26	2.587e4	4.257e4	2.155e3	2.800e3	0.77	NO	4.955e3	1.3925	1.3925	0.0876
11	2,3,7,8-TCDD	26.51	2.248e4	2.958e4	1.476e3	1.933e3	0.76	NO	3.409e3	0.95808	0.95808	0.0876
12	Total Tetra-Dioxins	26.86	5.540e3	5.980e3	2.920e2	3.565e2	0.82	NO	6.485e2	0.18222	0.18222	0.0876

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	5.182e4	8.935e4	4.392e3	6.626e3	0.66	NO	1.102e4	4.2448	4.2448	0.213
2	Total Penta-Dioxins	29.71	1.439e4	2.217e4	8.913e2	1.245e3	0.72	NO	2.136e3	0.82302	0.82302	0.213
3	Total Penta-Dioxins	30.23	3.612e4	6.039e4	2.473e3	3.553e3	0.70	NO	6.026e3	2.3215	2.3215	0.213
4	Total Penta-Dioxins	30.40	2.992e4	4.923e4	1.480e3	2.486e3	0.60	NO	3.966e3	1.5279	1.5279	0.213
5	Total Penta-Dioxins	30.49	1.407e4	2.725e4	9.359e2	1.663e3	0.56	NO	2.599e3	1.0011	1.0011	0.213
6	Total Penta-Dioxins	30.70	2.306e4	3.602e4	9.473e2	1.644e3	0.58	NO	0.000e0	0.00000	0.99824	0.213
7	Total Penta-Dioxins	31.04	1.133e4	1.173e4	5.127e2	7.214e2	0.71	NO	1.234e3	0.47545	0.47545	0.213
8	1,2,3,7,8-PeCDD	31.48	3.703e4	5.356e4	1.831e3	2.633e3	0.70	NO	4.463e3	1.7194	1.7194	0.213
9	Total Penta-Dioxins	31.56	6.786e3	1.278e4	3.380e2	6.212e2	0.54	NO	9.592e2	0.36953	0.36953	0.213
10	Total Penta-Dioxins	31.86	8.473e3	2.060e4	5.200e2	7.257e2	0.72	NO	1.246e3	0.47992	0.47992	0.213
11	Total Penta-Dioxins	30.72	1.729e4	2.857e4	7.388e2	1.233e3	0.60	NO	0.000e0	0.00000	0.75975	0.213

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 Task: ST200603R1_1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	6.984e5	5.491e5	3.457e4	2.759e4	1.25	NO	6.215e4	32.472	32.472	0.326
2	Total Hexa-Dioxins	33.90	6.903e4	5.872e4	3.868e3	2.979e3	1.30	NO	6.847e3	3.5775	3.5775	0.326
3	Total Hexa-Dioxins	34.17	7.316e5	5.830e5	4.814e4	3.863e4	1.25	NO	8.677e4	45.332	45.332	0.326
4	1,2,3,4,7,8-HxCDD	34.84	3.418e4	3.078e4	1.709e3	1.471e3	1.16	NO	3.179e3	1.5998	1.5998	0.293
5	1,2,3,6,7,8-HxCDD	34.95	2.264e5	1.867e5	1.336e4	1.116e4	1.20	NO	2.453e4	11.625	11.625	0.301
6	Total Hexa-Dioxins	35.13	1.733e4	1.440e4	1.081e3	8.096e2	1.34	NO	1.890e3	0.98772	0.98772	0.326
7	1,2,3,7,8,9-HxCDD	35.23	9.189e4	7.926e4	5.562e3	4.844e3	1.15	NO	1.041e4	5.4631	5.4631	0.344
8	Total Hexa-Dioxins	34.23	4.021e4	3.063e4	2.072e3	1.465e3	1.41	NO	3.537e3	1.8481	1.8481	0.326

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.76	2.821e6	2.677e6	2.079e5	2.015e5	1.03	NO	4.094e5	292.72	292.72	0.787
2	1,2,3,4,6,7,8-HpCDD	38.77	2.477e6	2.478e6	1.792e5	1.695e5	1.06	NO	3.487e5	249.32	249.32	0.787

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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	20.33	1.114e4	1.895e4	1.070e3	1.447e3	0.74	NO	2.517e3	0.64114	0.64114	0.142
2	Total Tetra-Furans	20.90	2.806e4	3.721e4	2.435e3	3.155e3	0.77	NO	5.591e3	1.4238	1.4238	0.142
3	Total Tetra-Furans	21.50	9.156e4	1.333e5	8.189e3	1.111e4	0.74	NO	1.930e4	4.9141	4.9141	0.142
4	Total Tetra-Furans	22.08	3.917e4	5.197e4	4.166e3	5.843e3	0.71	NO	1.001e4	2.5489	2.5489	0.142
5	Total Tetra-Furans	22.47	2.101e5	2.631e5	1.996e4	2.578e4	0.77	NO	4.574e4	11.649	11.649	0.142
6	Total Tetra-Furans	22.97	7.529e4	9.642e4	7.128e3	9.959e3	0.72	NO	1.709e4	4.3515	4.3515	0.142
7	Total Tetra-Furans	23.15	2.709e4	3.425e4	2.427e3	3.226e3	0.75	NO	5.653e3	1.4396	1.4396	0.142
8	Total Tetra-Furans	23.33	5.361e4	6.908e4	4.816e3	6.369e3	0.76	NO	1.118e4	2.8484	2.8484	0.142
9	Total Tetra-Furans	23.77	6.549e3	1.166e4	7.121e2	1.002e3	0.71	NO	1.714e3	0.43642	0.43642	0.142
10	Total Tetra-Furans	23.89	1.583e4	2.482e4	1.245e3	1.883e3	0.66	NO	3.128e3	0.79661	0.79661	0.142
11	Total Tetra-Furans	24.07	4.901e4	7.551e4	2.901e3	4.416e3	0.66	NO	7.317e3	1.8633	1.8633	0.142
12	Total Tetra-Furans	24.18	1.003e5	1.426e5	1.109e4	1.498e4	0.74	NO	2.606e4	6.6370	6.6370	0.142
13	Total Tetra-Furans	24.69	7.662e5	1.019e6	6.015e4	8.073e4	0.75	NO	1.409e5	35.877	35.877	0.142
14	Total Tetra-Furans	24.97	2.938e4	4.078e4	2.411e3	3.314e3	0.73	NO	5.725e3	1.4580	1.4580	0.142
15	Total Tetra-Furans	25.20	8.791e3	1.436e4	7.349e2	1.114e3	0.66	NO	1.849e3	0.47082	0.47082	0.142
16	Total Tetra-Furans	25.39	9.899e3	1.564e4	5.791e2	9.010e2	0.64	YES	0.000e0	0.00000	0.33899	0.142
17	Total Tetra-Furans	25.53	1.004e5	1.295e5	6.048e3	8.040e3	0.75	NO	1.409e4	3.5878	3.5878	0.142
18	2,3,7,8-TCDF	25.63	9.558e5	1.325e6	7.168e4	9.822e4	0.73	NO	1.699e5	43.270	43.270	0.142
19	Total Tetra-Furans	26.00	6.779e4	9.325e4	5.047e3	6.856e3	0.74	NO	1.190e4	3.0315	3.0315	0.142
20	Total Tetra-Furans	26.24	1.331e4	1.458e4	7.431e2	1.021e3	0.73	NO	1.765e3	0.44938	0.44938	0.142
21	Total Tetra-Furans	27.62	9.336e4	1.133e5	6.265e3	7.259e3	0.86	NO	1.352e4	3.4441	3.4441	0.142
22	Total Tetra-Furans	22.01	2.083e4	3.518e4	1.672e3	2.444e3	0.68	NO	4.116e3	1.0483	1.0483	0.142

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.61	7.286e5	4.648e5	4.394e4	2.731e4	1.61	NO	7.125e4	18.139	18.139	0.0438

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.06	8.016e4	5.129e4	5.063e3	3.422e3	1.48	NO	8.485e3	2.1600	2.1600	0.270
2	Total Penta-Furans	29.21	1.332e6	8.609e5	7.969e4	5.159e4	1.54	NO	1.313e5	33.420	33.420	0.270
3	Total Penta-Furans	29.79	1.619e5	8.556e4	9.740e3	6.268e3	1.55	NO	1.601e4	4.0753	4.0753	0.270
4	Total Penta-Furans	30.00	2.524e5	1.635e5	1.276e4	8.453e3	1.51	NO	2.121e4	5.4004	5.4004	0.270
5	1,2,3,7,8-PeCDF	30.20	2.418e6	1.569e6	1.380e5	8.896e4	1.55	NO	2.270e5	57.803	57.803	0.288
6	Total Penta-Furans	30.46	7.004e5	4.801e5	3.757e4	2.387e4	1.57	NO	6.144e4	15.641	15.641	0.270
7	Total Penta-Furans	31.07	3.204e4	1.709e4	1.554e3	9.011e2	1.72	NO	2.455e3	0.62497	0.62497	0.270
8	2,3,4,7,8-PeCDF	31.18	1.219e6	7.735e5	6.217e4	4.005e4	1.55	NO	1.022e5	24.839	24.839	0.240
9	Total Penta-Furans	32.11	5.909e4	4.137e4	3.366e3	2.390e3	1.41	NO	5.756e3	1.4654	1.4654	0.270
10	Total Penta-Furans	30.28	5.921e4	3.880e4	2.544e3	1.675e3	1.52	NO	4.219e3	1.0741	1.0741	0.270
11	Total Penta-Furans	29.85	3.373e4	2.224e4	1.303e3	9.780e2	1.33	NO	2.281e3	0.58067	0.58067	0.270
12	Total Penta-Furans	29.27	9.856e4	6.410e4	3.152e3	2.107e3	1.50	NO	5.258e3	1.3387	1.3387	0.270
13	Total Penta-Furans	31.21	6.158e5	4.117e5	1.349e4	9.300e3	1.45	NO	2.279e4	5.8023	5.8023	0.270

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	2.166e5	1.905e5	1.112e4	9.242e3	1.20	NO	2.036e4	8.3448	8.3448	0.318
2	Total Hexa-Furans	32.96	7.942e5	6.373e5	3.708e4	3.080e4	1.20	NO	6.788e4	27.825	27.825	0.318
3	Total Hexa-Furans	33.33	1.979e4	1.760e4	1.060e3	8.210e2	1.29	NO	1.881e3	0.77093	0.77093	0.318
4	Total Hexa-Furans	33.51	8.669e5	7.082e5	4.107e4	3.423e4	1.20	NO	7.530e4	30.866	30.866	0.318
5	Total Hexa-Furans	33.87	2.762e4	2.373e4	1.241e3	1.077e3	1.15	NO	2.318e3	0.95016	0.95016	0.318
6	1,2,3,4,7,8-HxCDF	33.97	2.656e6	2.182e6	1.464e5	1.223e5	1.20	NO	2.687e5	119.21	119.21	0.315
7	1,2,3,6,7,8-HxCDF	34.09	7.879e5	6.749e5	4.534e4	3.695e4	1.23	NO	8.229e4	31.863	31.863	0.288
8	Total Hexa-Furans	34.37	2.245e4	1.678e4	1.572e3	1.173e3	1.34	NO	2.745e3	1.1252	1.1252	0.318
9	2,3,4,6,7,8-HxCDF	34.68	1.947e5	1.501e5	1.110e4	8.762e3	1.27	NO	1.987e4	8.0198	8.0198	0.306
10	1,2,3,7,8,9-HxCDF	35.63	1.932e5	1.627e5	9.250e3	8.002e3	1.16	NO	1.725e4	8.4610	8.4610	0.439
11	Total Hexa-Furans	35.65	1.670e5	1.416e5	3.621e3	3.035e3	1.19	NO	6.656e3	2.7284	2.7284	0.318
12	Total Hexa-Furans	34.18	2.767e4	3.074e4	2.302e3	1.832e3	1.26	NO	4.134e3	1.6944	1.6944	0.318

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.36	1.180e6	1.161e6	8.209e4	8.200e4	1.00	NO	1.641e5	93.611	93.611	0.375
2	Total Hepta-Furans	37.77	1.791e4	2.316e4	1.287e3	1.425e3	0.90	NO	2.713e3	1.8733	1.8733	0.434
3	Total Hepta-Furans	37.98	1.110e6	1.106e6	8.266e4	8.191e4	1.01	NO	1.646e5	113.64	113.64	0.434
4	1,2,3,4,7,8,9-HpCDF	39.31	2.446e5	2.389e5	1.445e4	1.448e4	1.00	NO	2.893e4	21.815	21.815	0.452

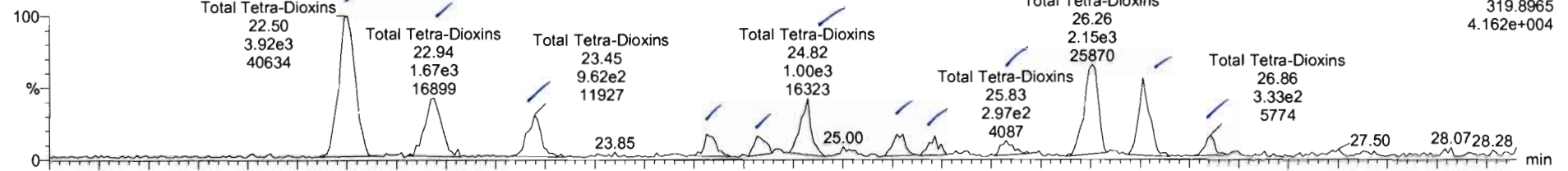
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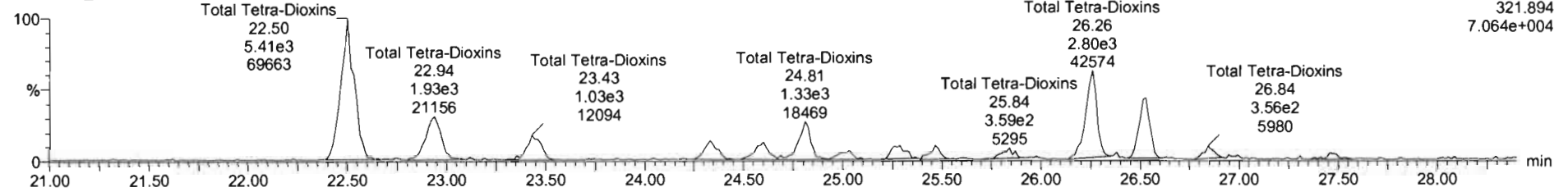
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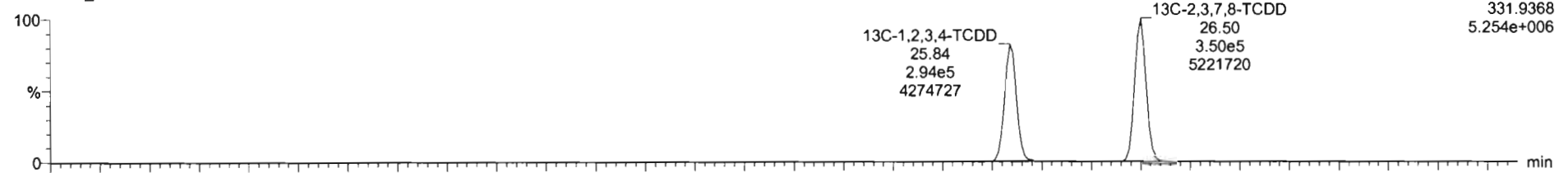


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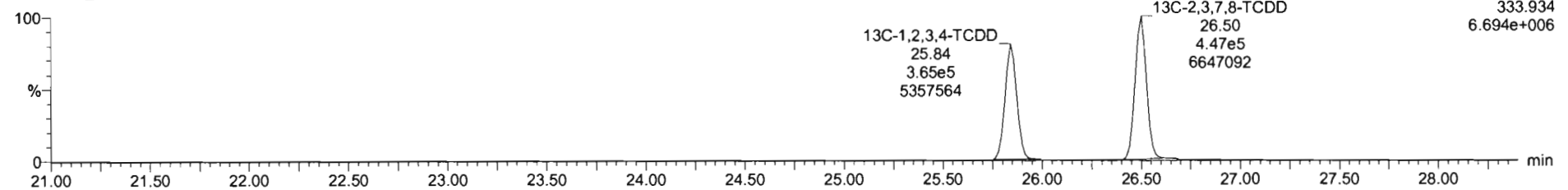


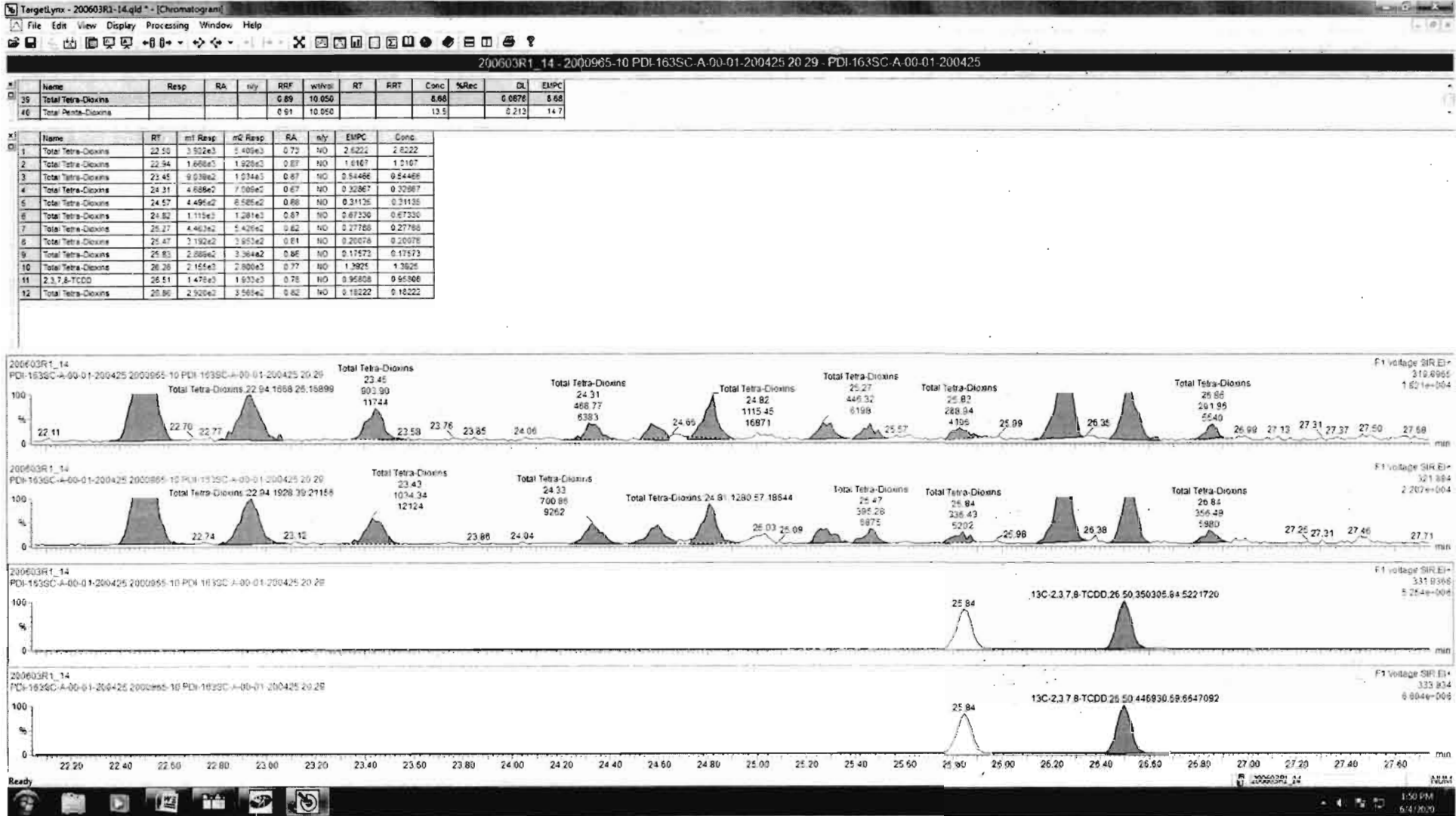
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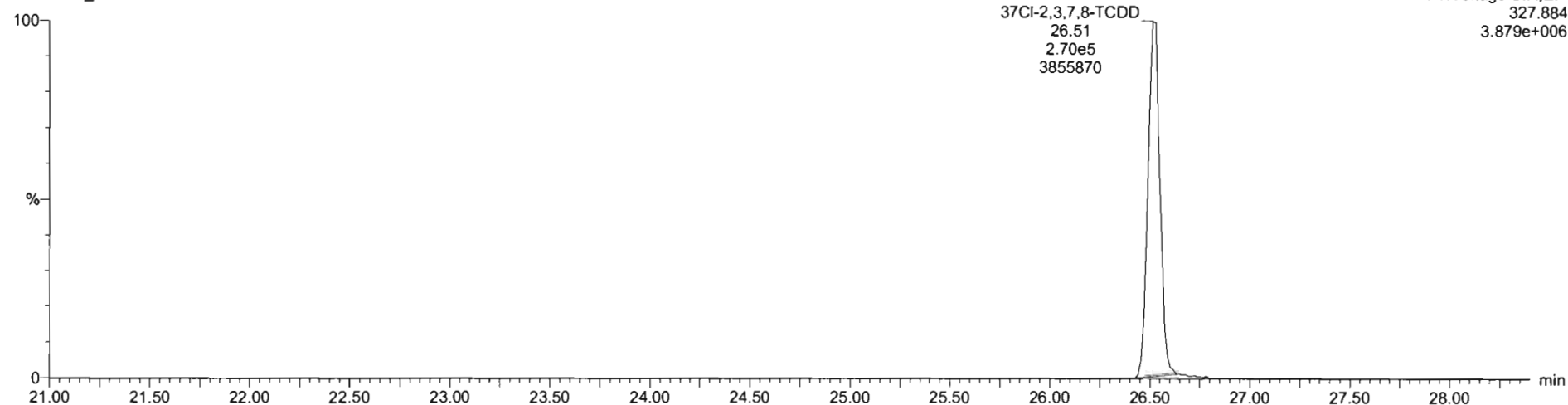
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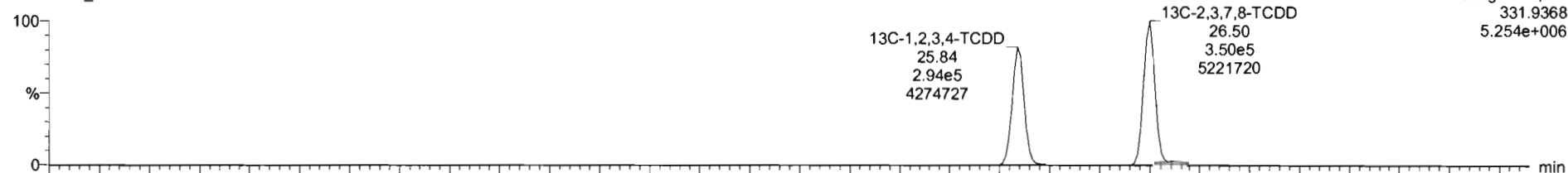
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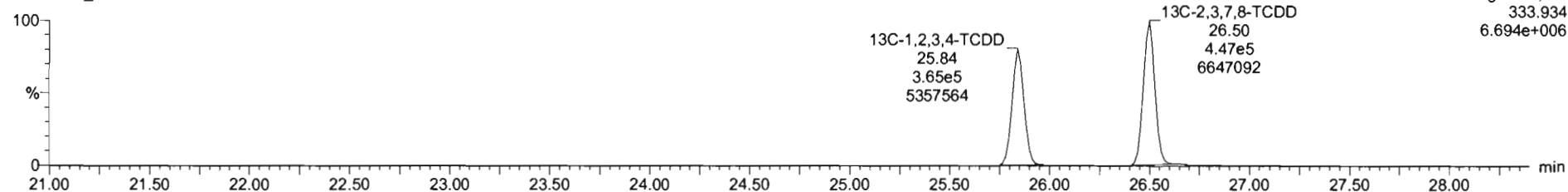


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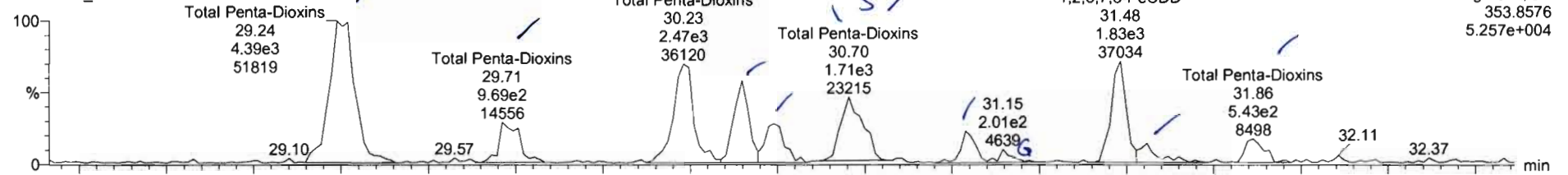
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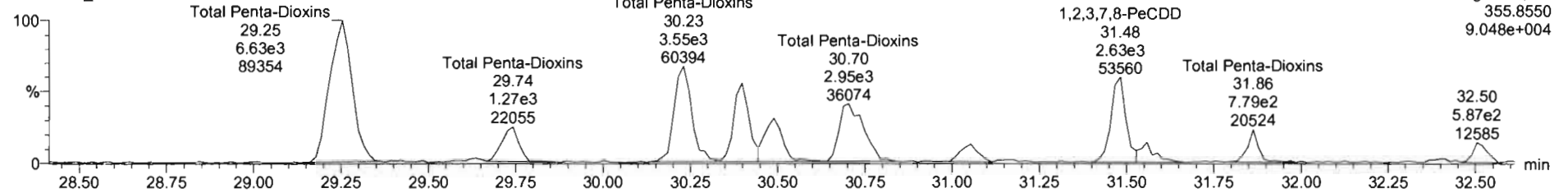
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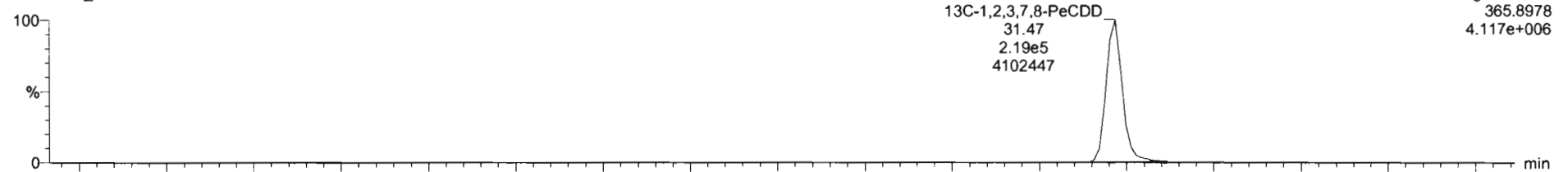


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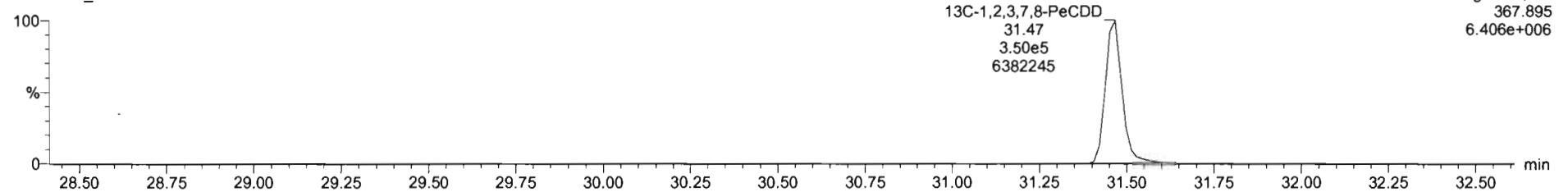


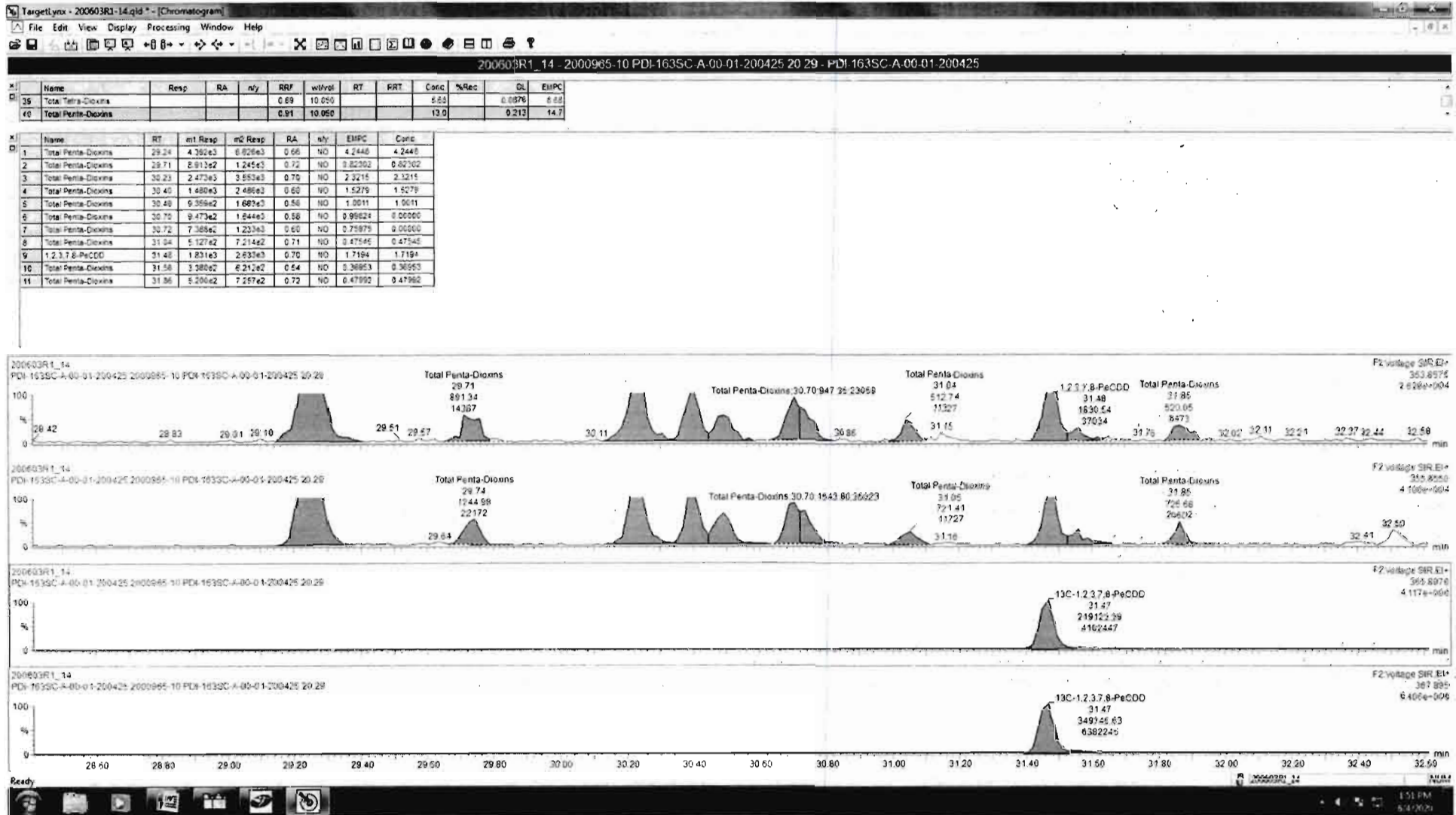
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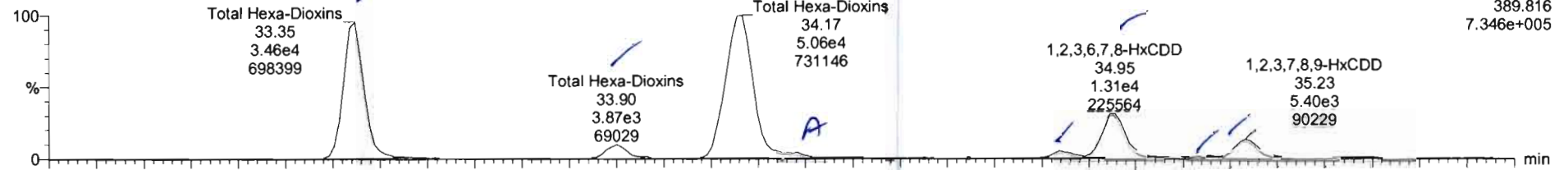
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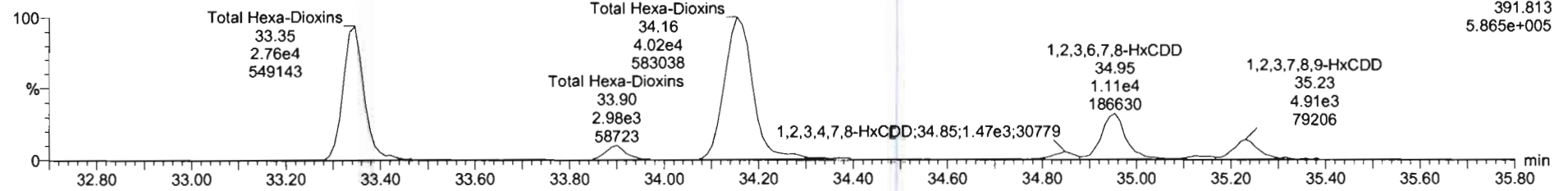
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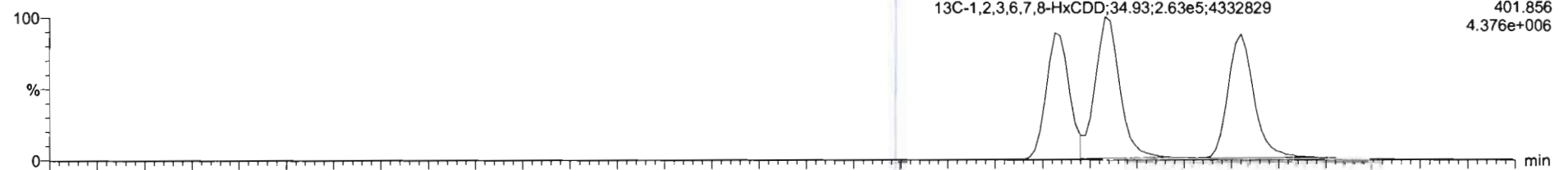


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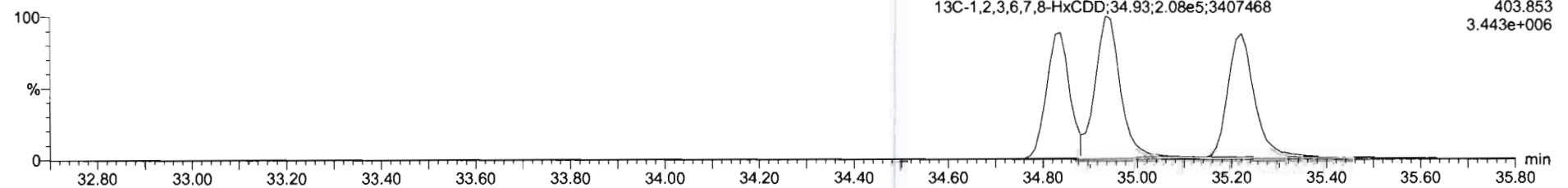


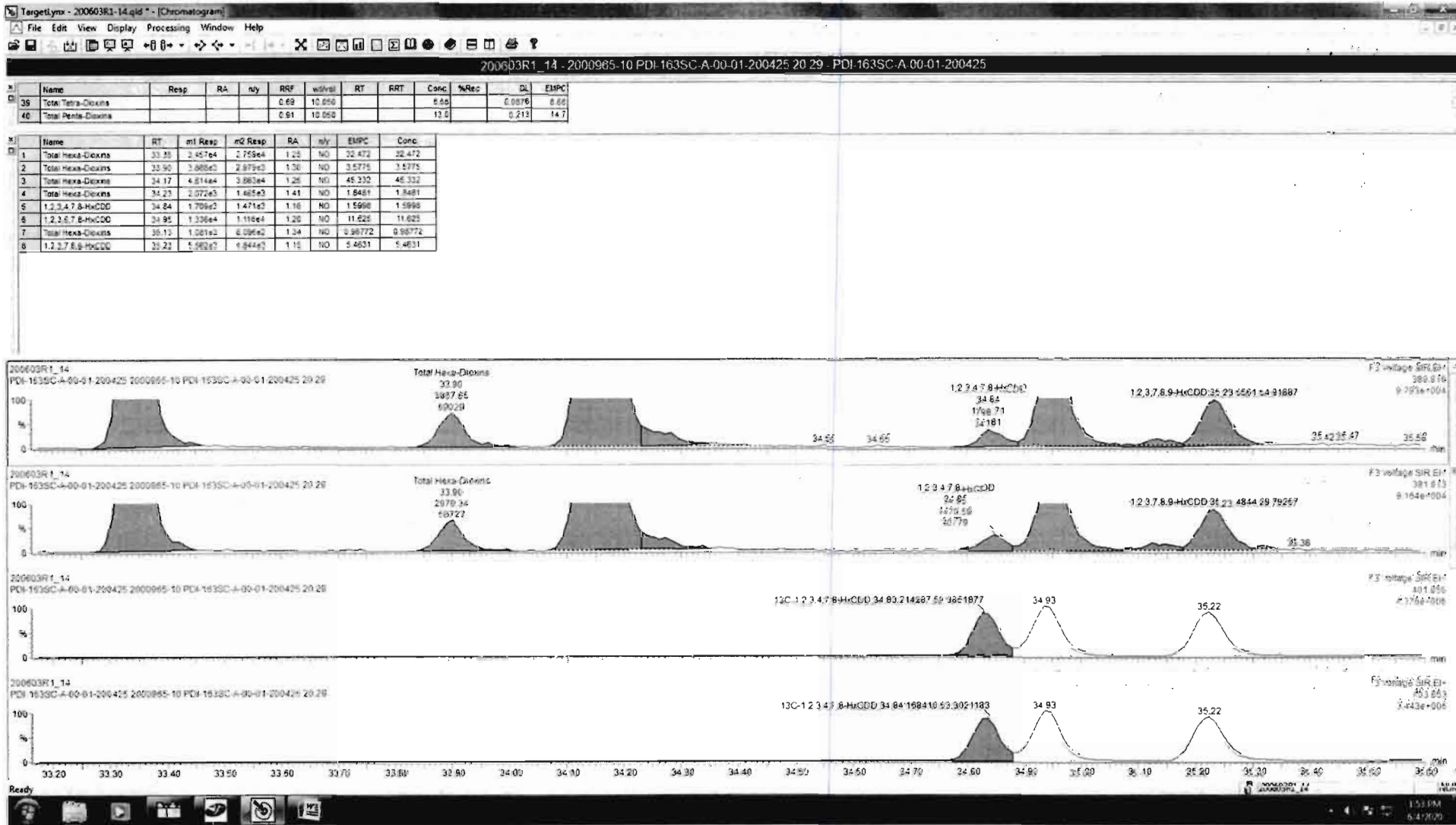
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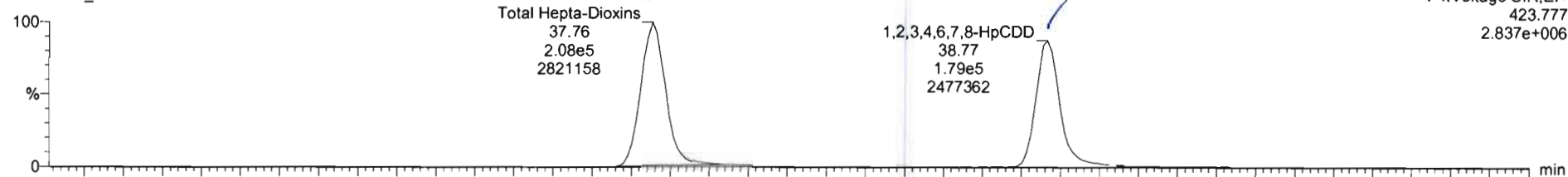
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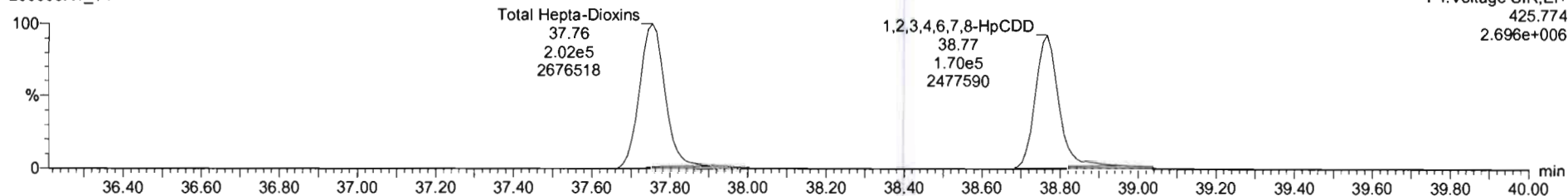
Name: 200603R1_14, Date: 03-Jun-2020, Time: 18:11:21, ID: 2000965-10 PDI-163SC-A-00-01-200425 20.29, Description: PDI-163SC-A-00-01-200425

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

200603R1_14

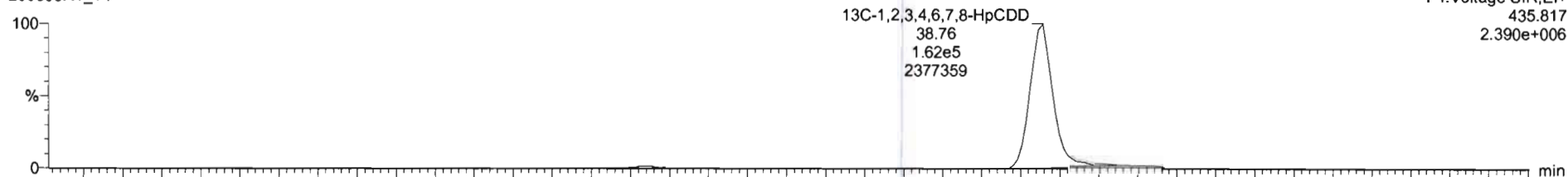


200603R1_14

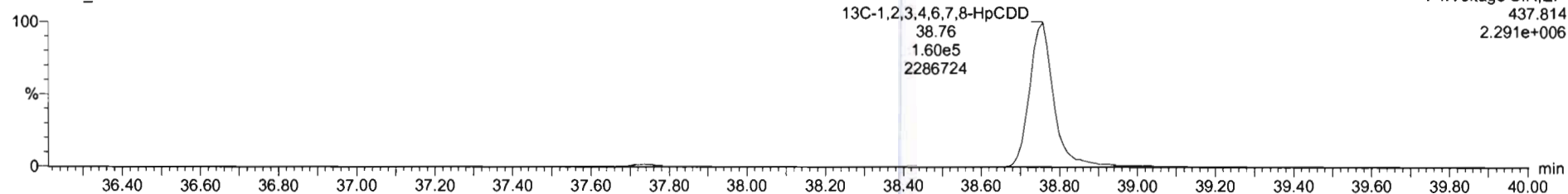


13C-1,2,3,4,6,7,8-HpCDD

200603R1_14



200603R1_14

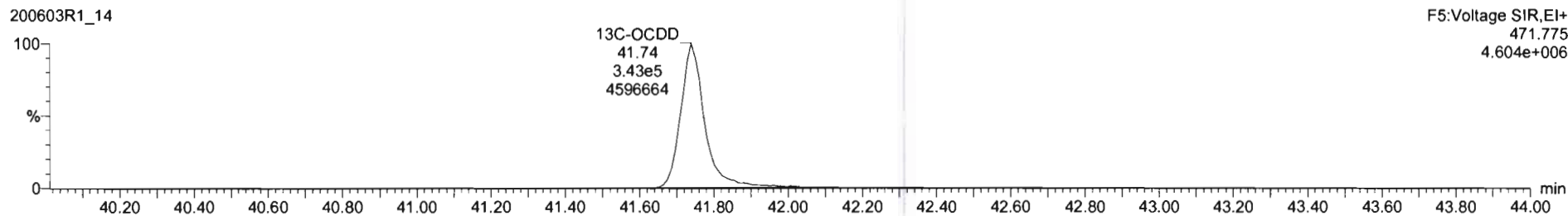
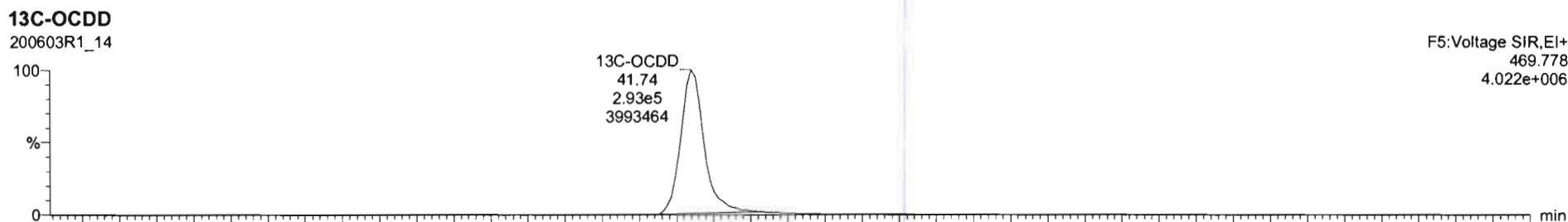
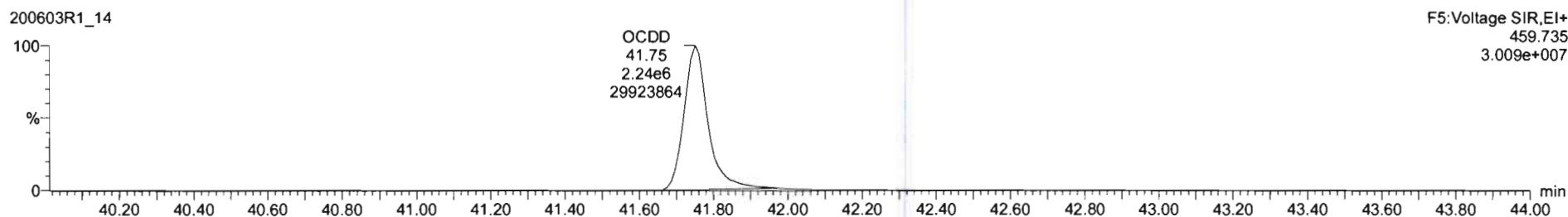
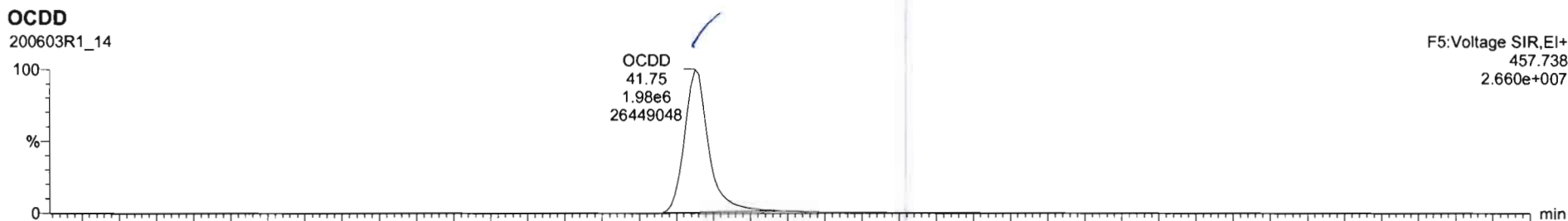


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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_14, Date: 03-Jun-2020, Time: 18:11:21, ID: 2000965-10 PDI-163SC-A-00-01-200425 20.29, Description: PDI-163SC-A-00-01-200425



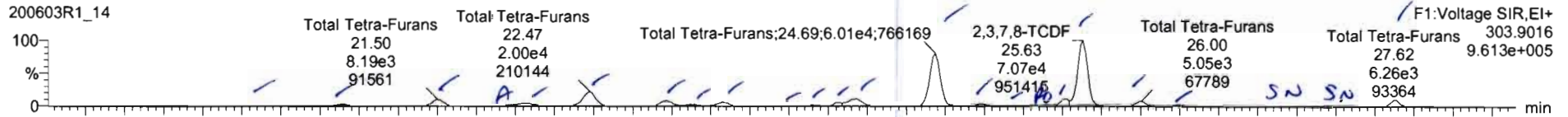
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

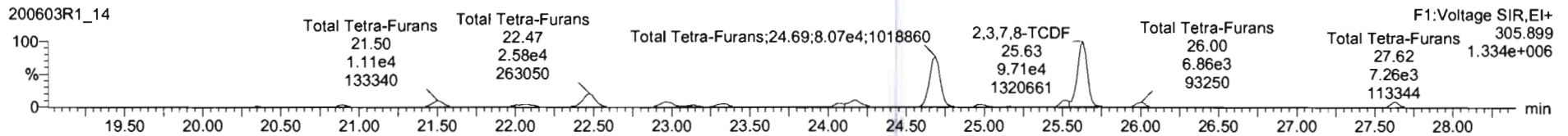
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2,3,7,8-TCDF

200603R1_14

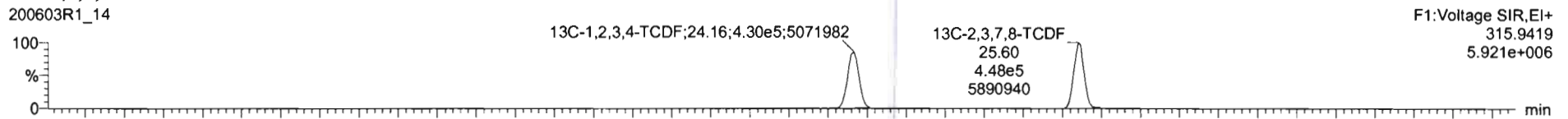


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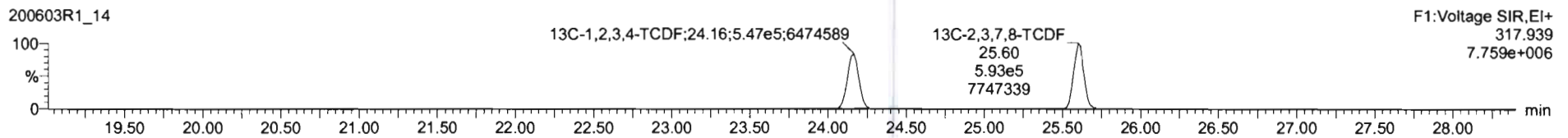


13C-2,3,7,8-TCDF

200603R1_14

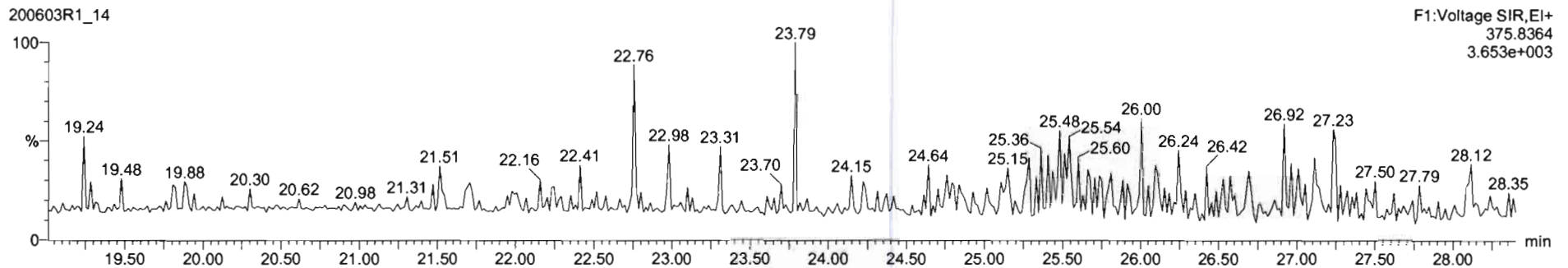


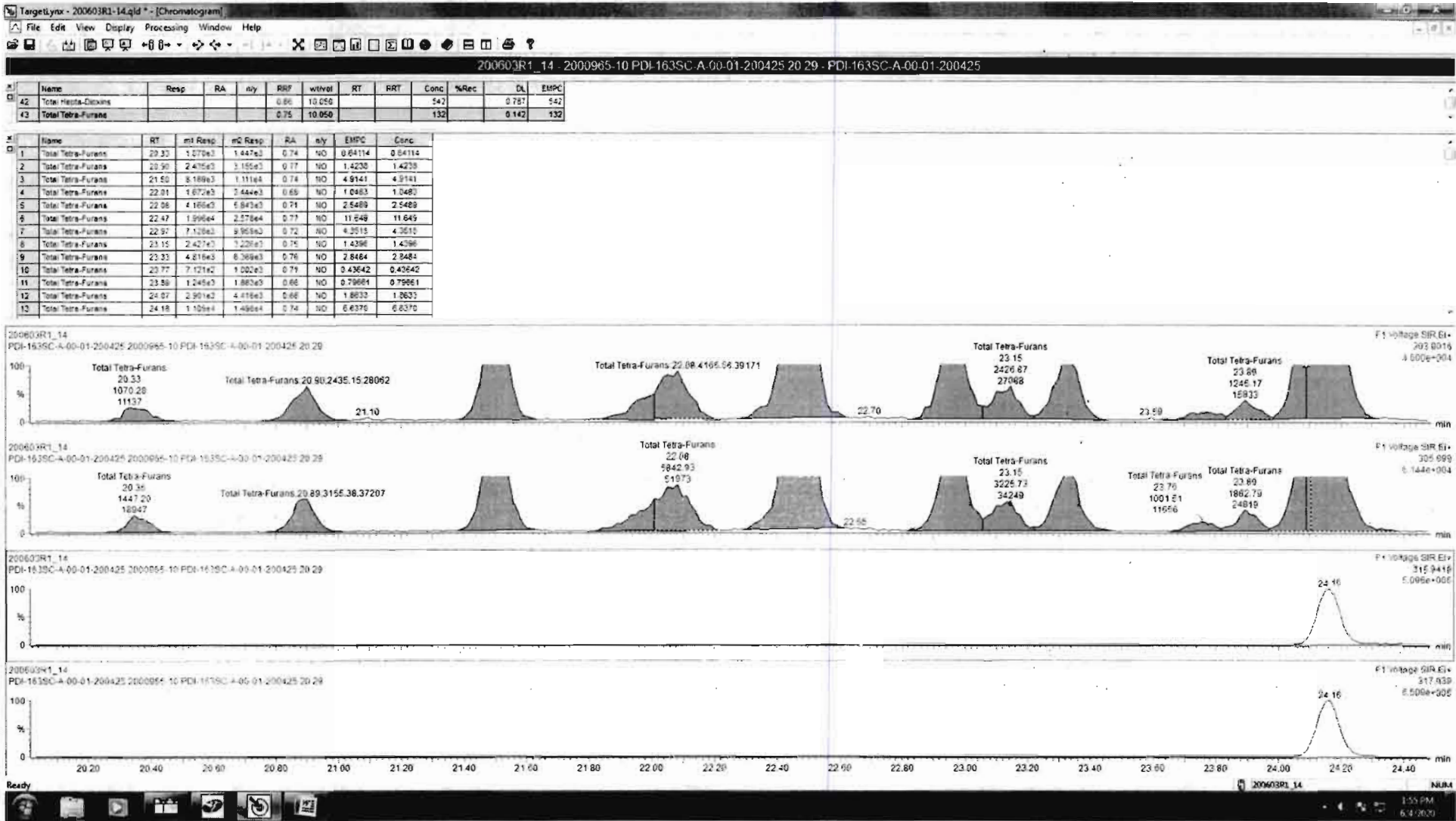
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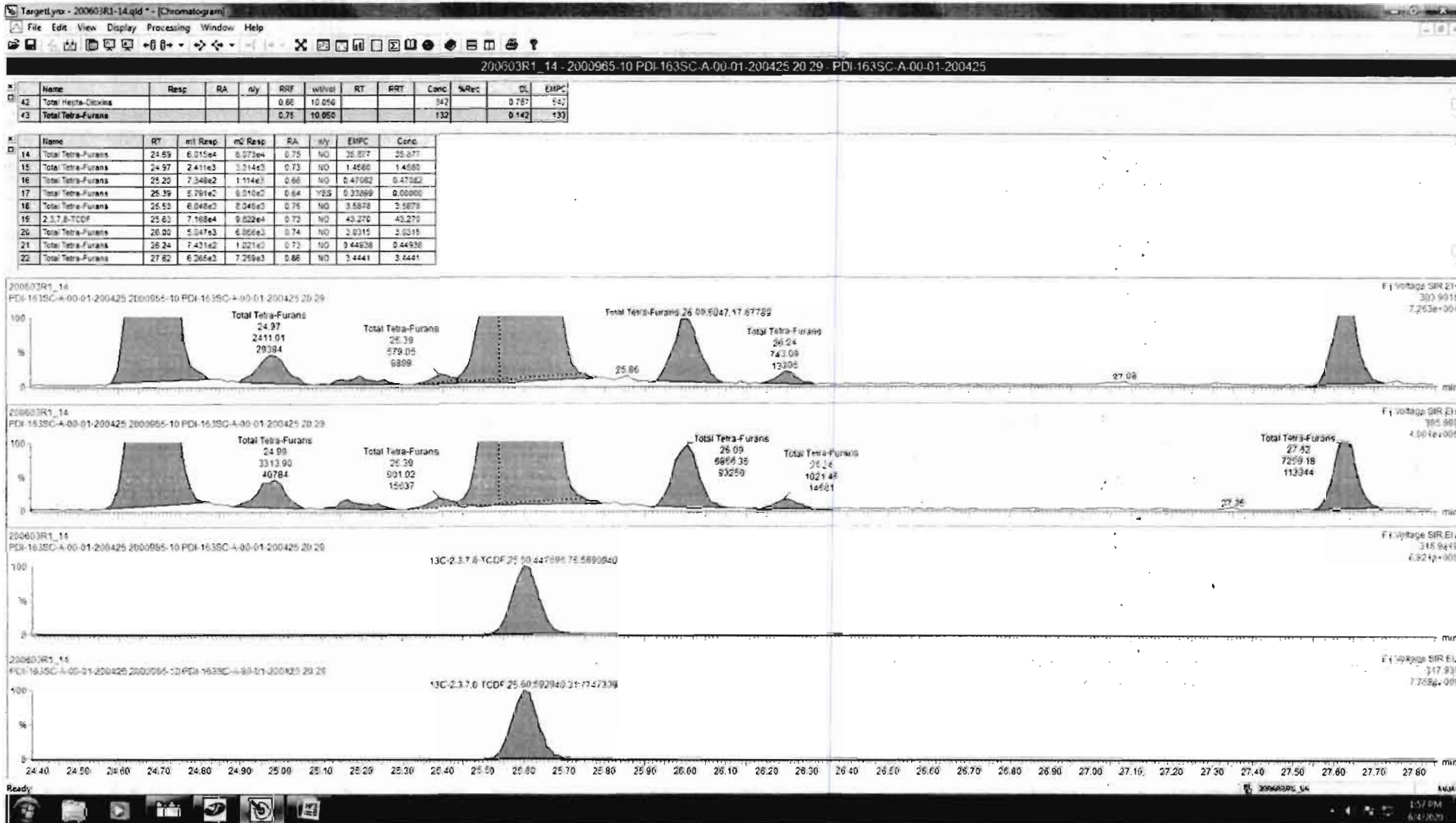


DPE1

200603R1_14







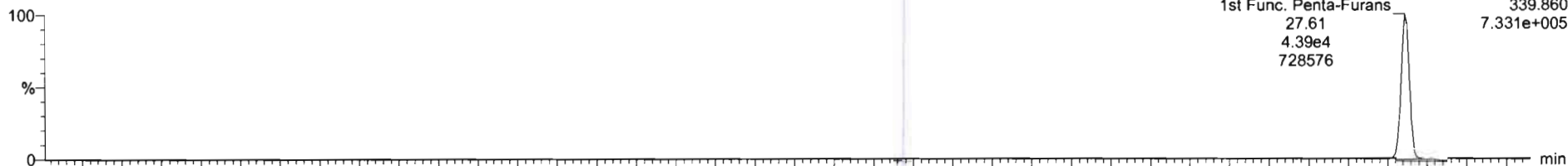
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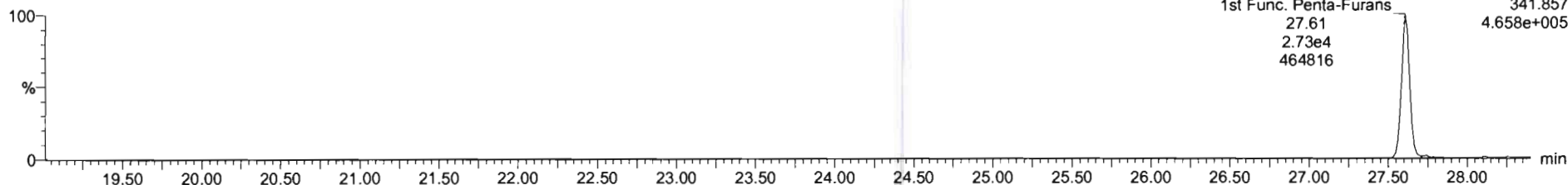
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1st Func. Penta-Furans

200603R1_14

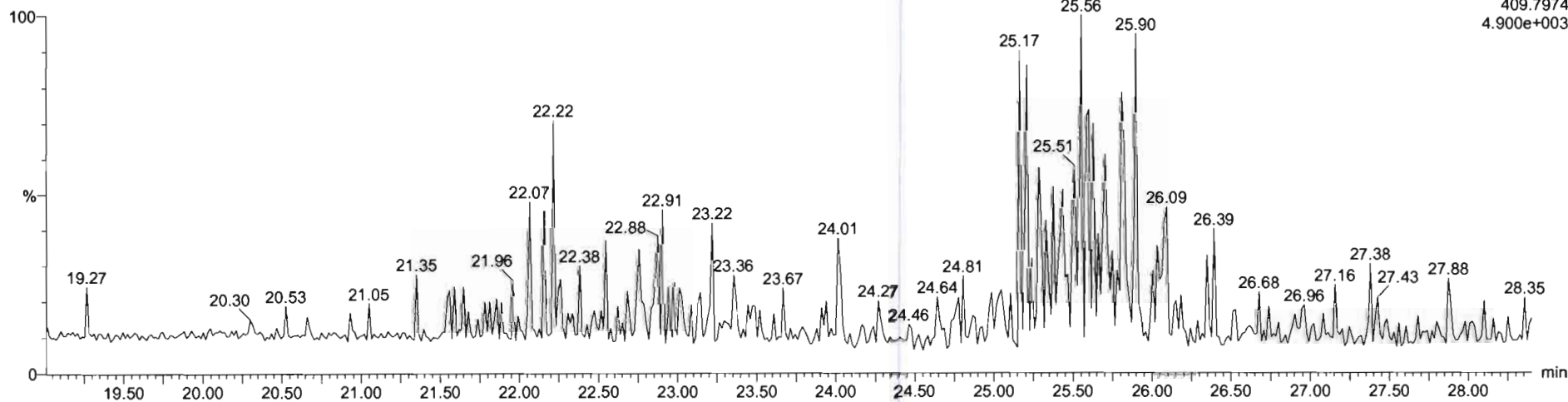


200603R1_14



DPE6

200603R1_14



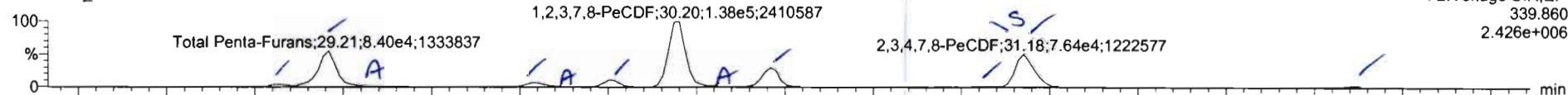
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

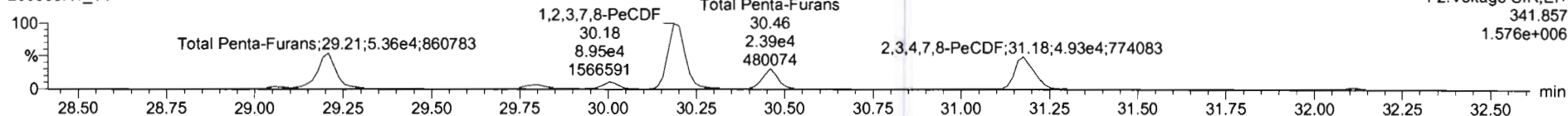
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1,2,3,7,8-PeCDF

200603R1_14

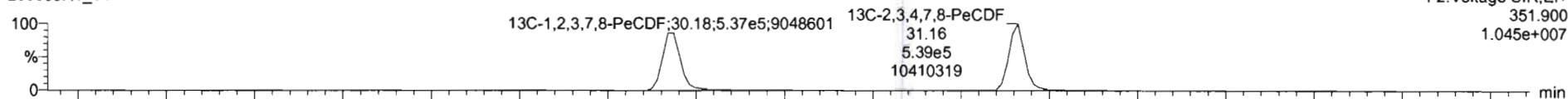


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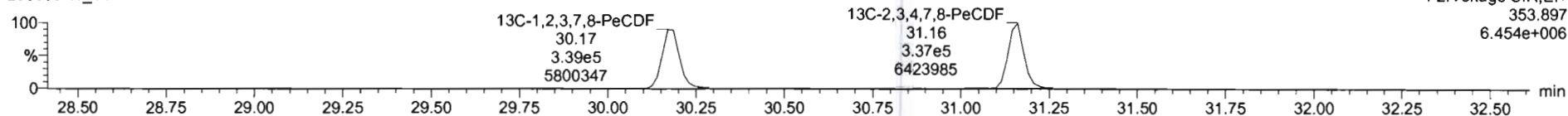


13C-1,2,3,7,8-PeCDF

200603R1_14

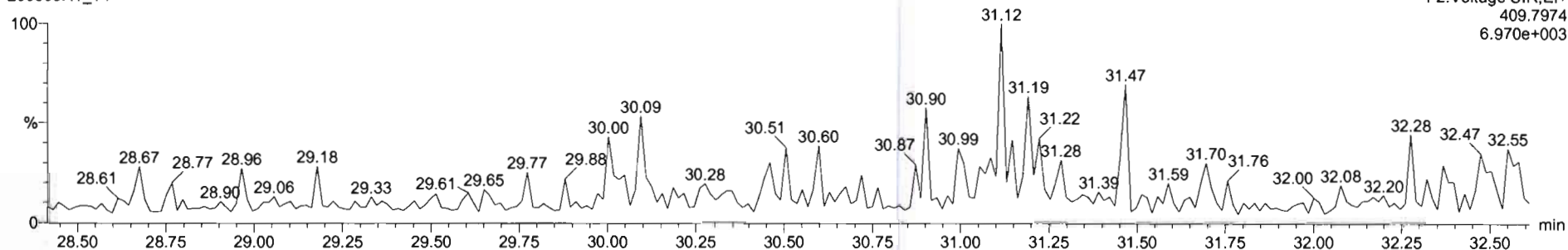


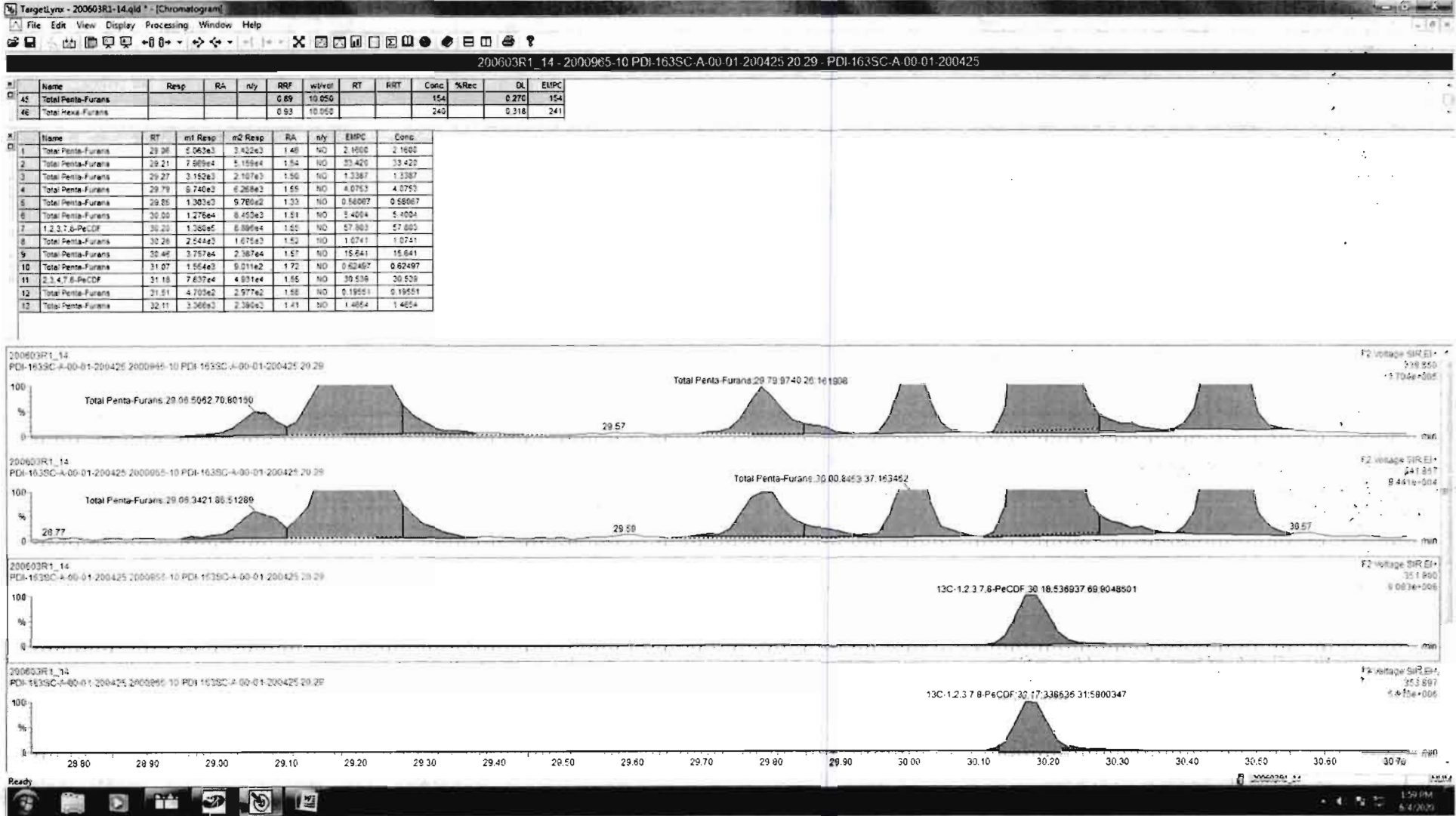
200603R1_14

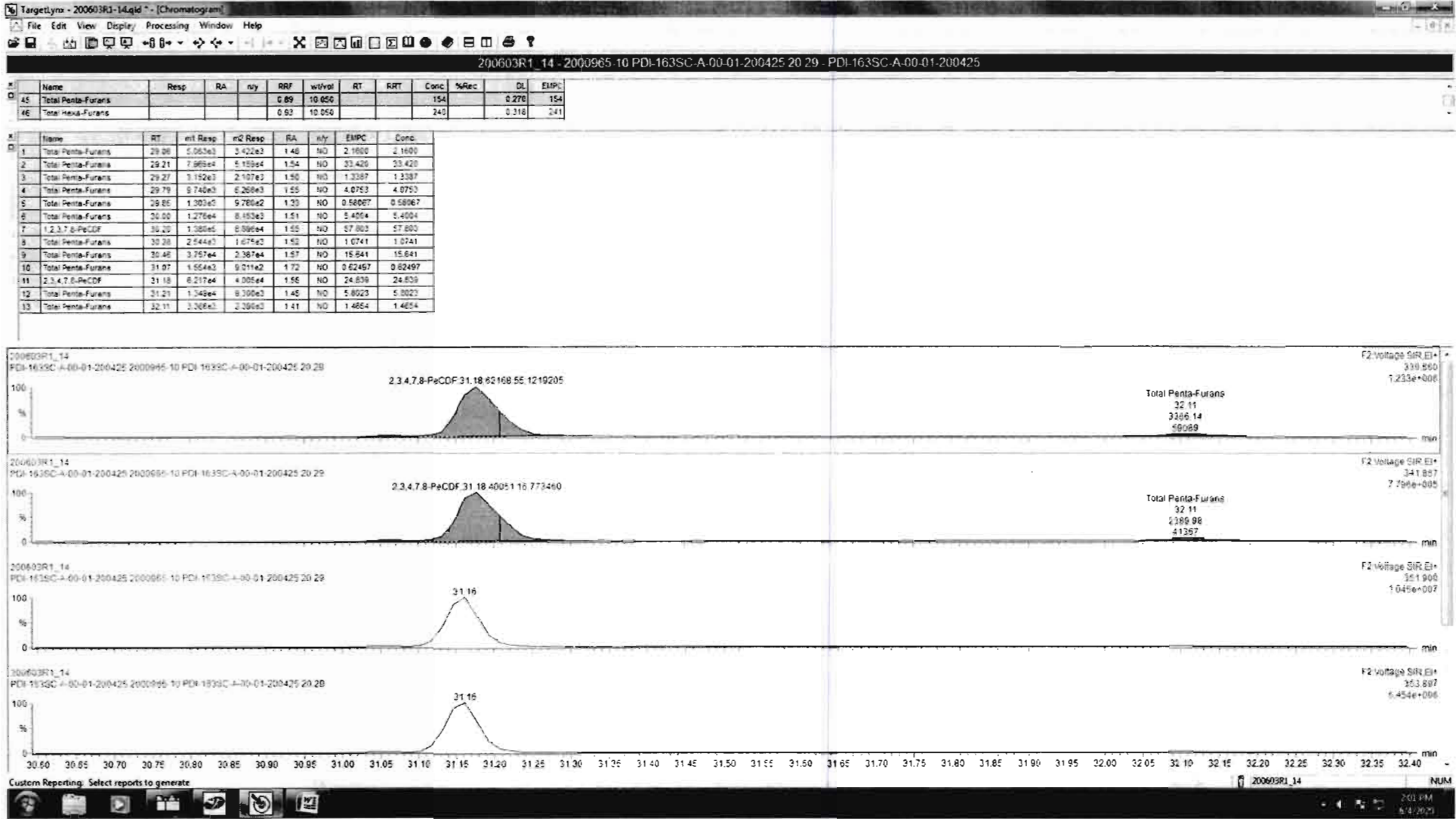


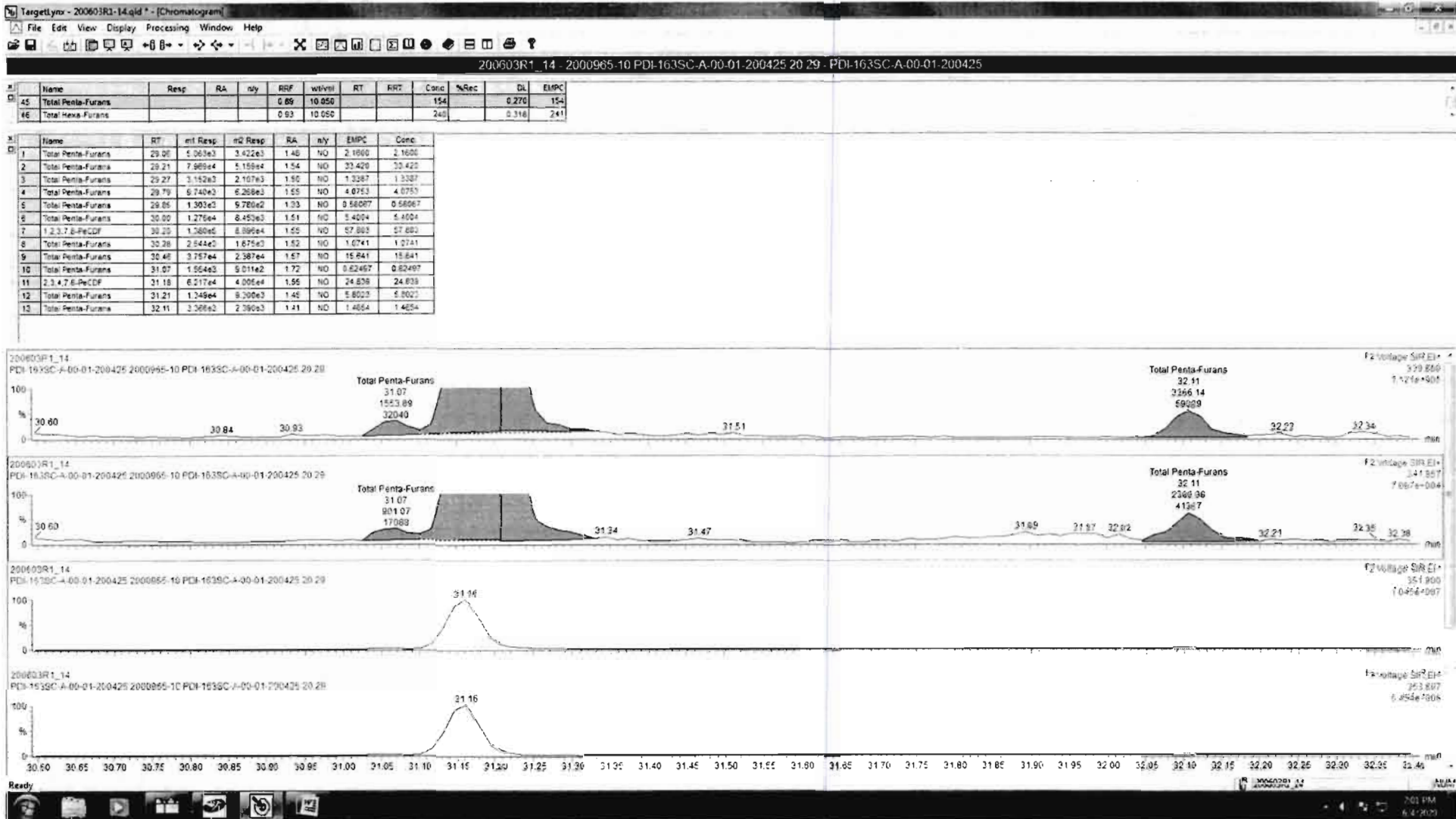
DPE2

200603R1_14









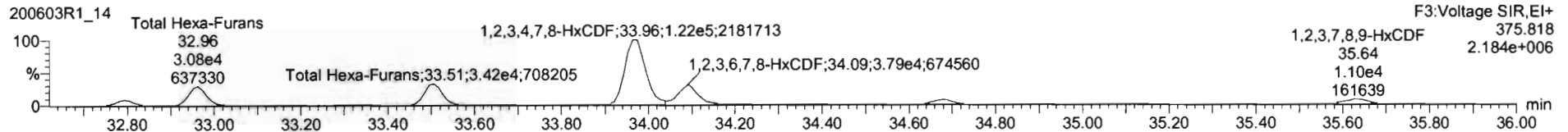
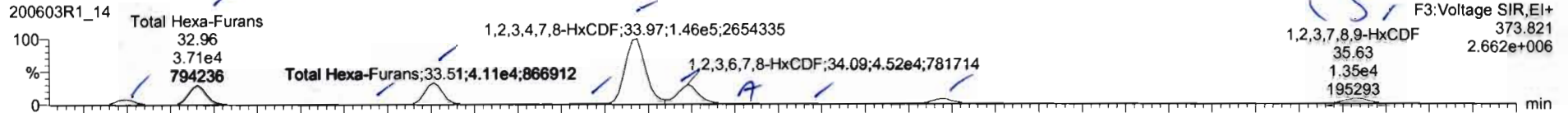
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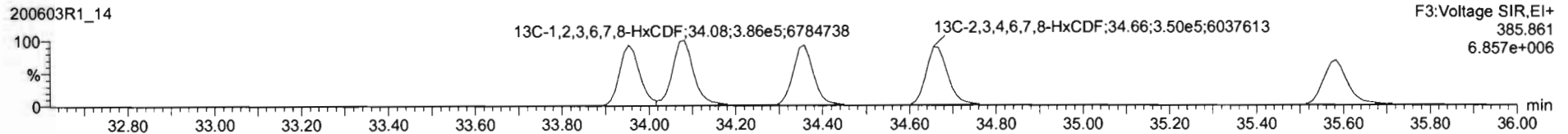
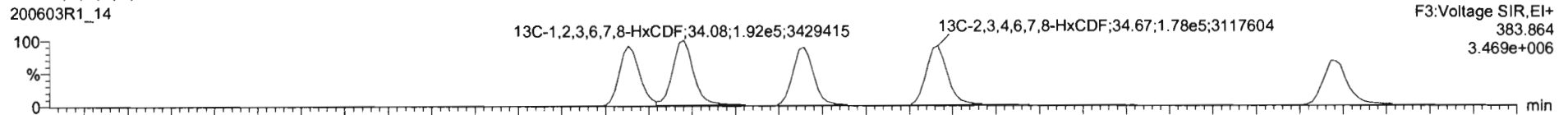
Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_14, Date: 03-Jun-2020, Time: 18:11:21, ID: 2000965-10 PDI-163SC-A-00-01-200425 20.29, Description: PDI-163SC-A-00-01-200425

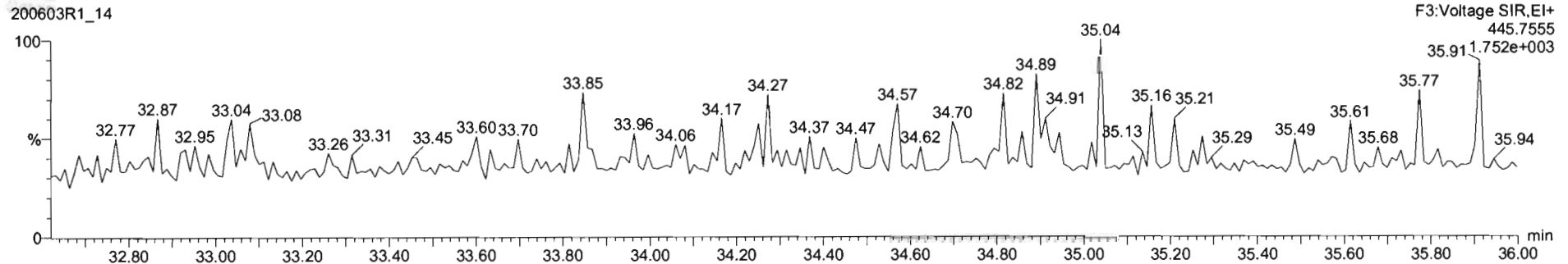
1,2,3,4,7,8-HxCDF

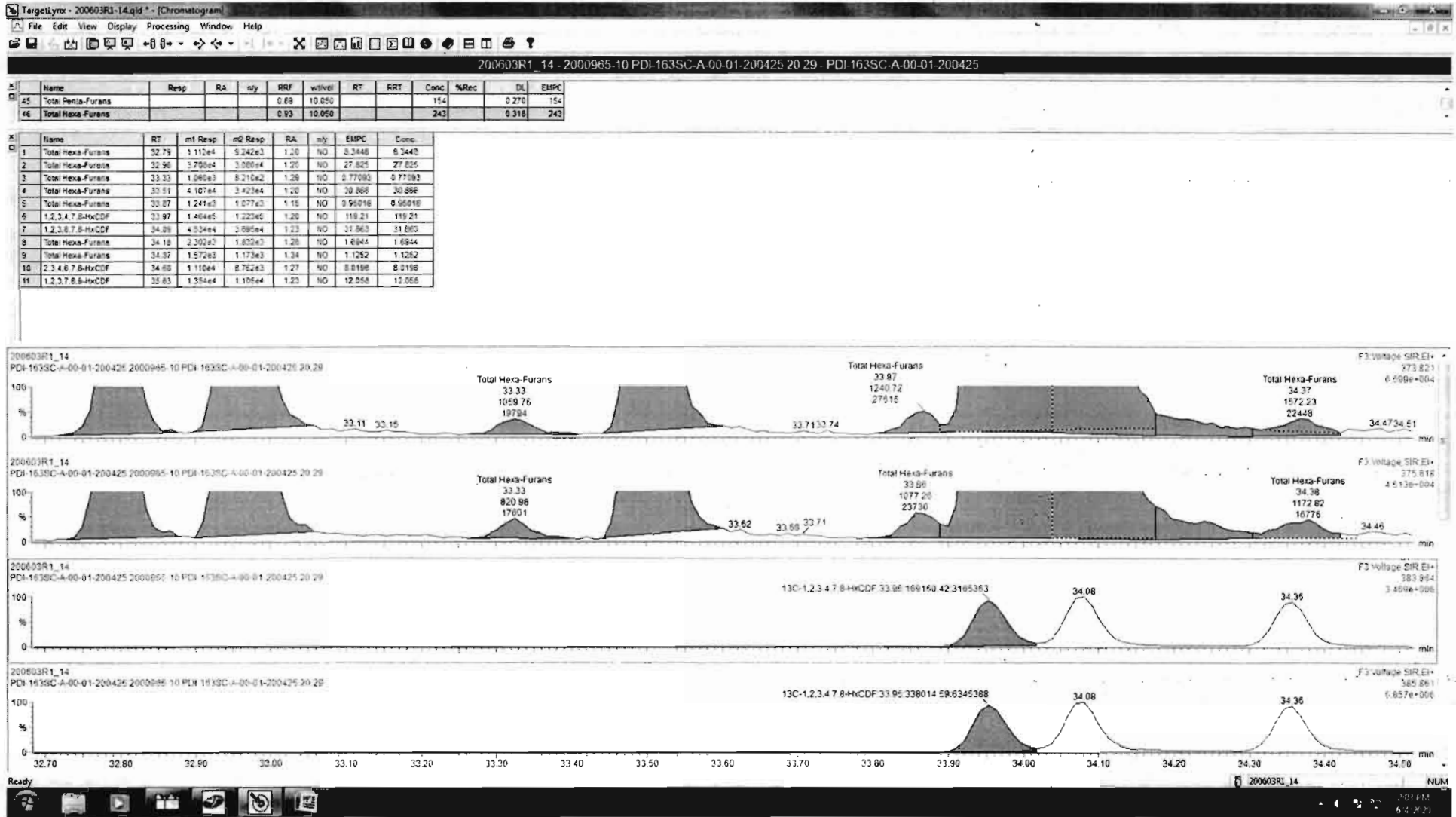


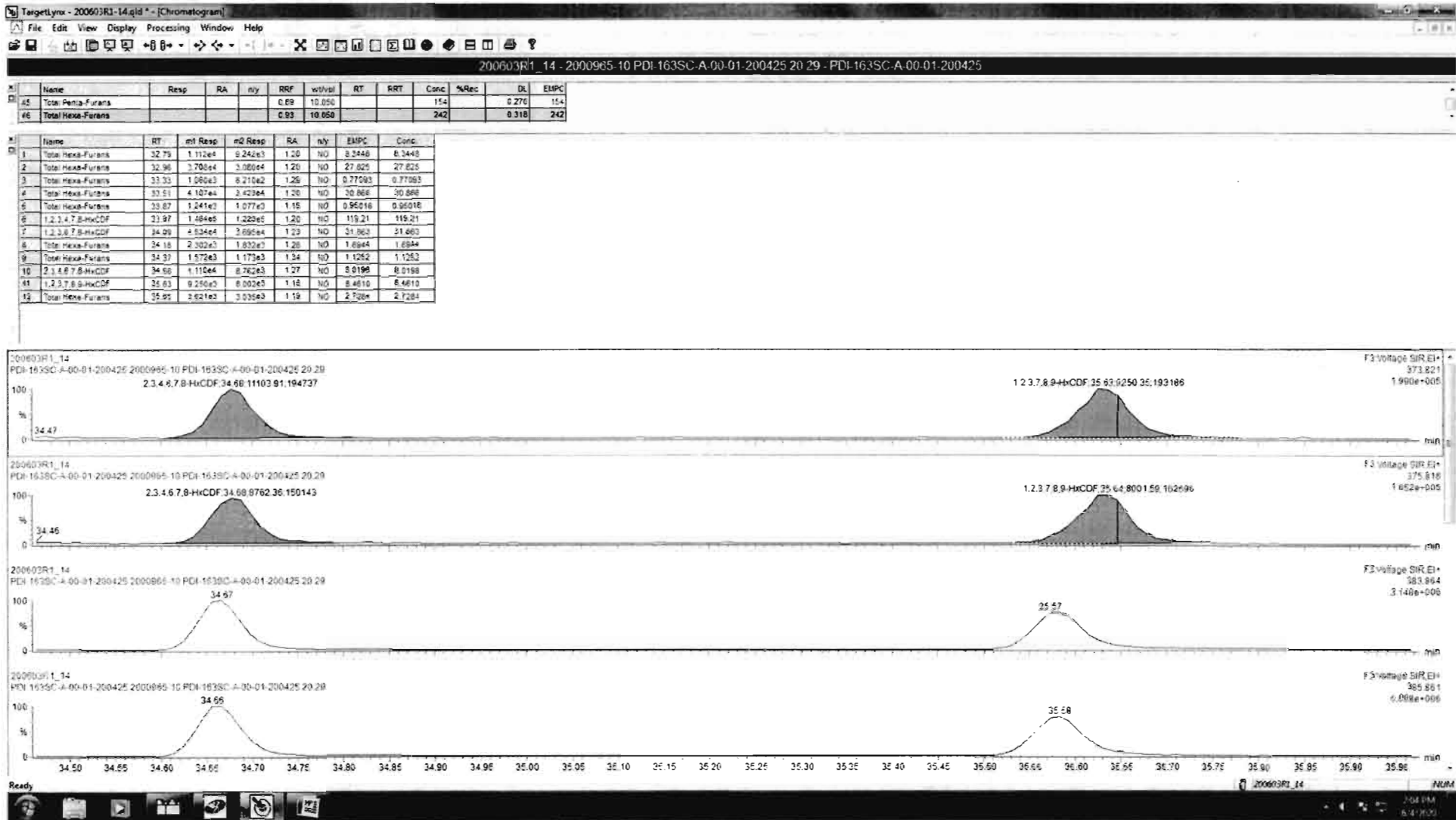
13C-1,2,3,4,7,8-HxCDF



DPE3







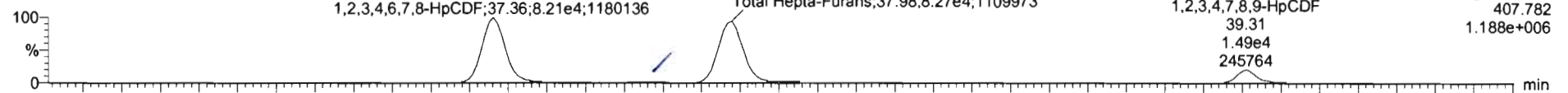
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

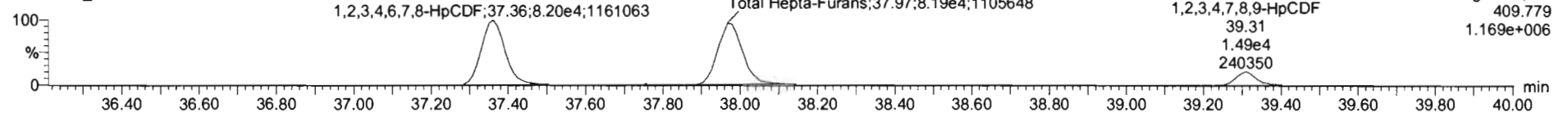
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1,2,3,4,6,7,8-HpCDF

200603R1_14

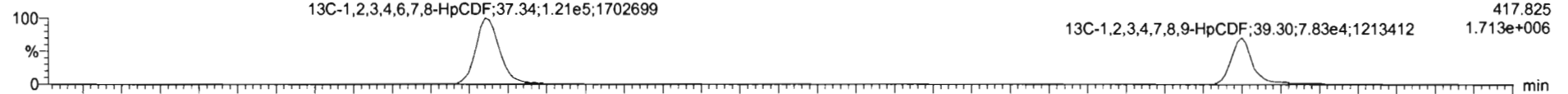


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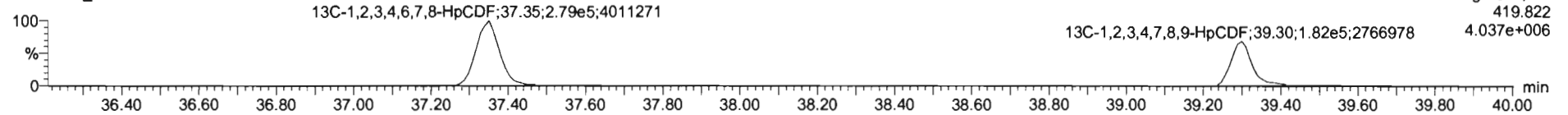


13C-1,2,3,4,6,7,8-HpCDF

200603R1_14

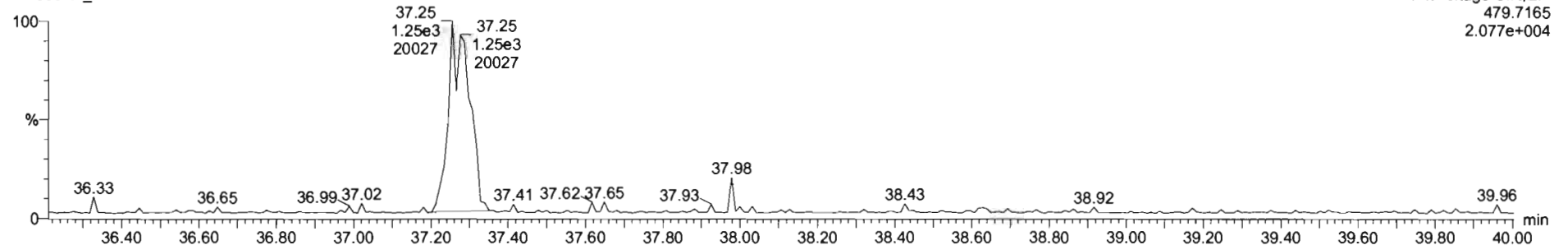


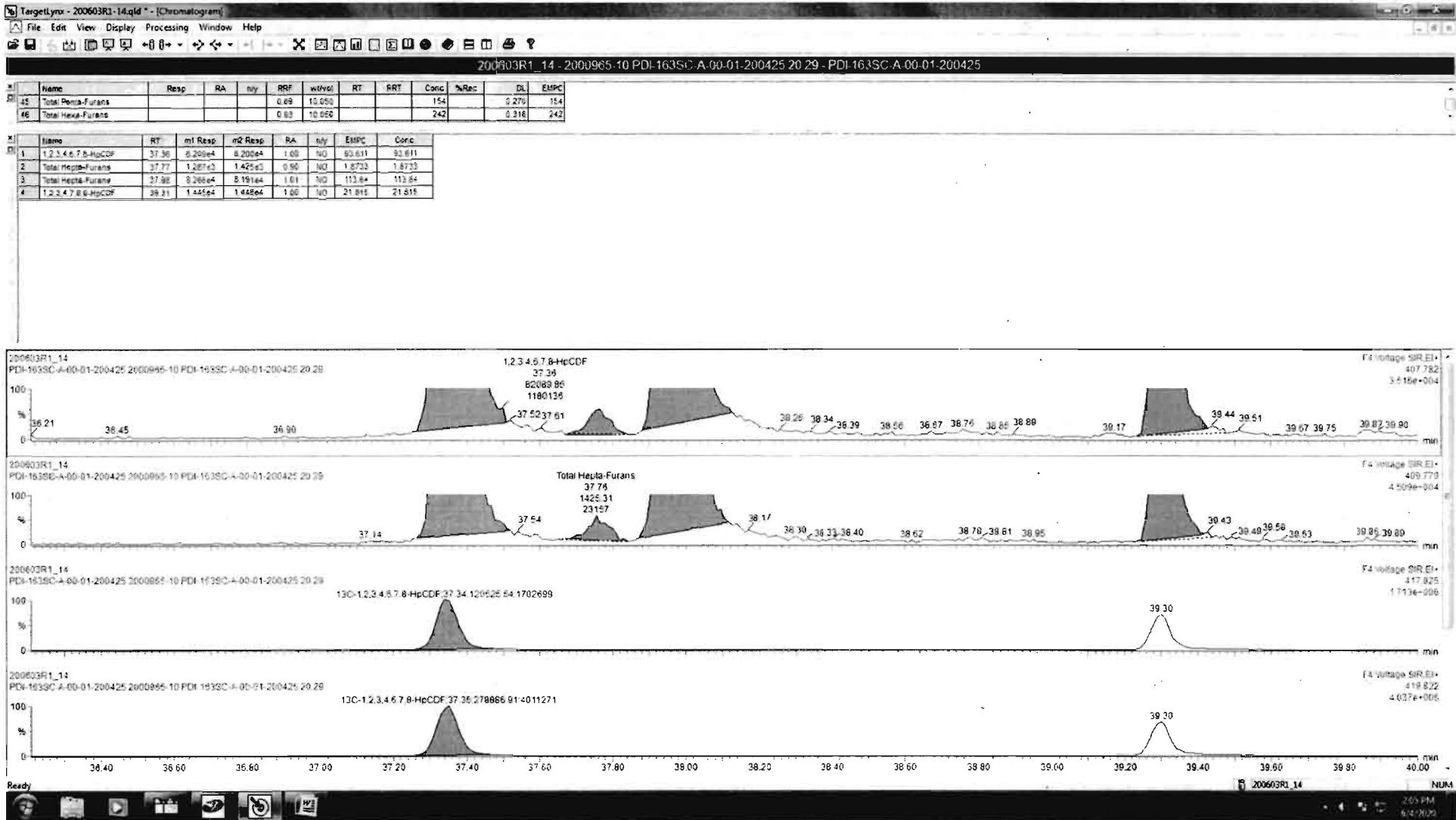
200603R1_14



DPE4

200603R1_14





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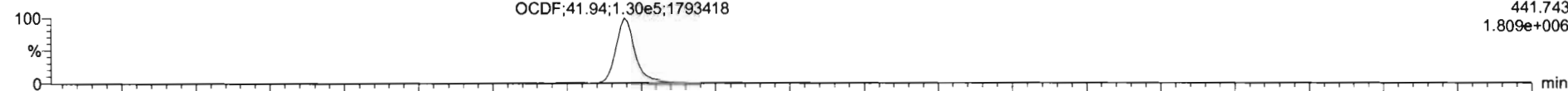
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

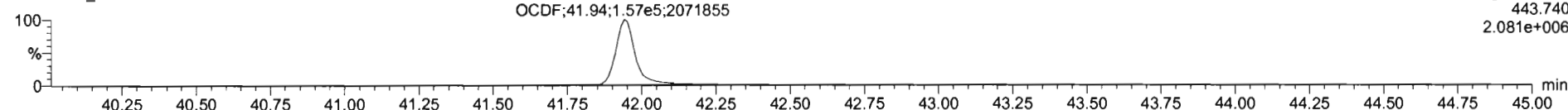
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OCDF

200603R1_14

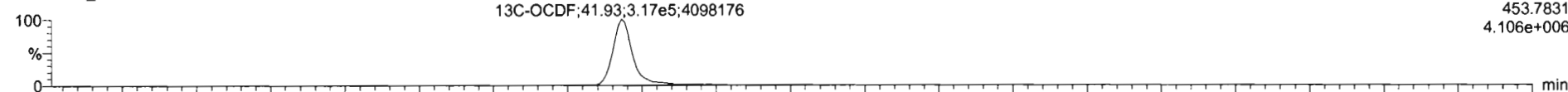


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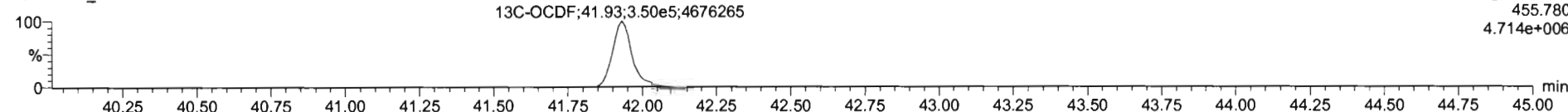


13C-OCDF

200603R1_14

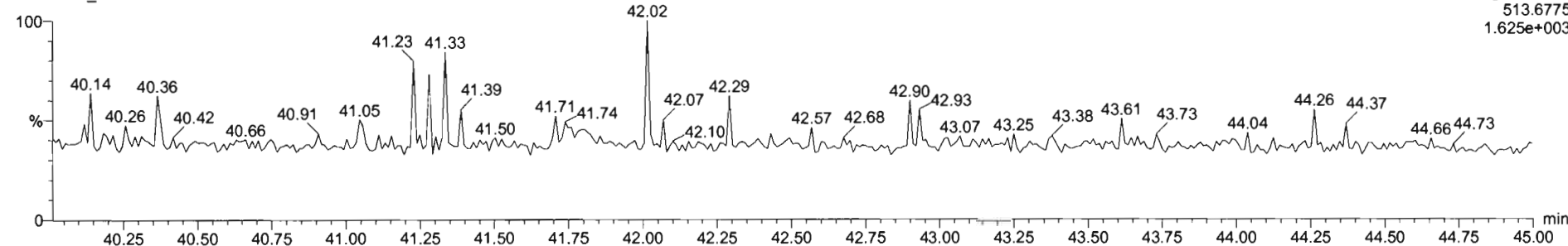


200603R1_14



DPE5

200603R1_14

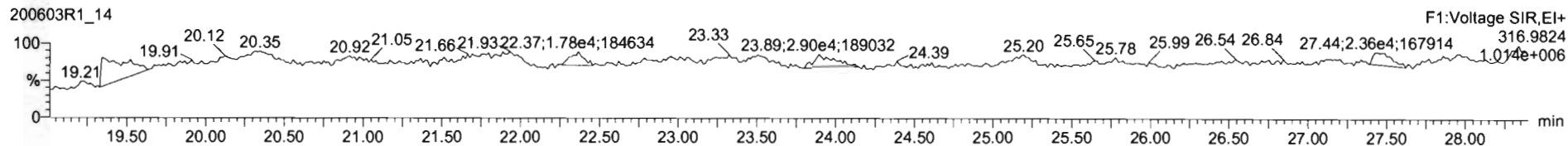


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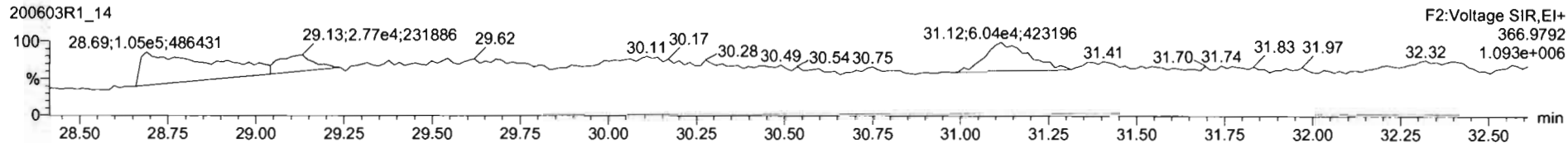
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Printed: Thursday, June 04, 2020 07:31:42 Pacific Daylight Time

Name: 200603R1_14, Date: 03-Jun-2020, Time: 18:11:21, ID: 2000965-10 PDI-163SC-A-00-01-200425 20.29, Description: PDI-163SC-A-00-01-200425

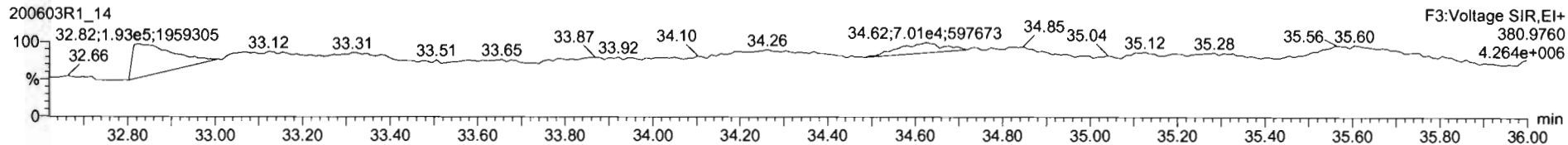
PFK1



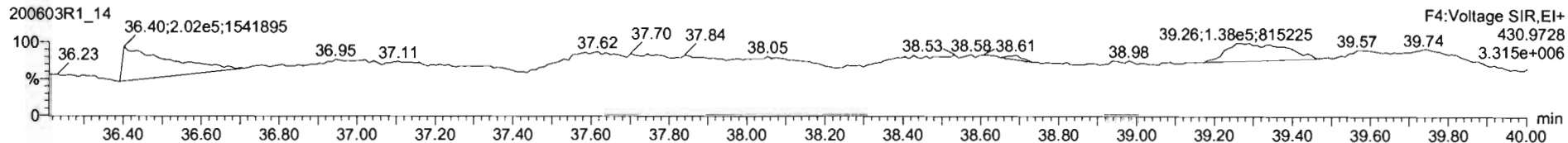
PFK2



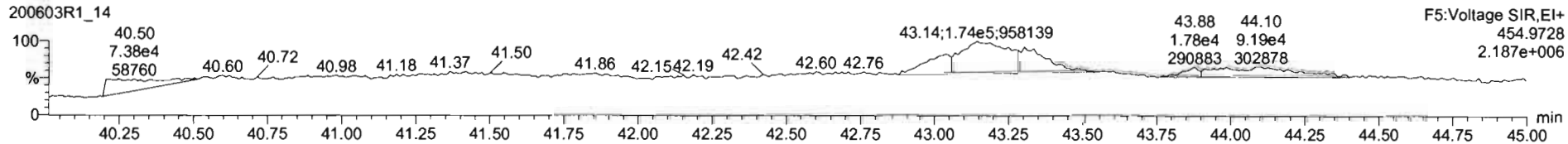
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R1\200603R1-15.qld

Last Altered: Thursday, June 04, 2020 12:40:23 Pacific Daylight Time
Printed: Thursday, June 04, 2020 12:40:46 Pacific Daylight Time

GRB 06/04/2020
CT 06/05/2020

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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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	8.96e3	0.72	NO	0.888	10.078	26.516	26.51	1.001	1.001	2.0126		0.0740	2.01
2	2 1,2,3,7,8-PeCDD	8.61e3	0.61	NO	0.908	10.078	31.473	31.45	1.001	1.000	2.6914		0.156	2.69
3	3 1,2,3,4,7,8-HxCDD	6.87e3	1.18	NO	1.03	10.078	34.825	34.84	1.000	1.001	2.4178		0.627	2.42
4	4 1,2,3,6,7,8-HxCDD	4.20e4	1.20	NO	0.892	10.078	34.921	34.94	1.000	1.001	14.426		0.668	14.4
5	5 1,2,3,7,8,9-HxCDD	1.58e4	1.12	NO	0.887	10.078	35.220	35.22	1.000	1.000	6.5105		0.817	6.51
6	6 1,2,3,4,6,7,8-HpCDD	7.37e5	0.97	NO	0.864	10.078	38.746	38.76	1.000	1.001	385.57		1.03	386
7	7 OCDD	1.09e7	0.88	NO	0.914	10.078	41.727	41.75	1.000	1.001	5233.8		1.28	5230
8	8 2,3,7,8-TCDF	1.15e6	0.75	NO	0.751	10.078	25.612	25.62	1.001	1.001	235.92	(156)	0.197	236
9	9 1,2,3,7,8-PeCDF	1.79e6	1.53	NO	0.893	10.078	30.190	30.18	1.001	1.001	366.47		0.430	366
10	10 2,3,4,7,8-PeCDF	7.80e5	1.54	NO	0.935	10.078	31.155	31.16	1.000	1.000	157.38		0.374	157
11	11 1,2,3,4,7,8-HxCDF	2.40e6	1.19	NO	0.884	10.078	33.942	33.96	1.000	1.001	814.08		0.466	814
12	12 1,2,3,6,7,8-HxCDF	7.53e5	1.19	NO	0.889	10.078	34.079	34.08	1.000	1.000	223.88		0.436	224
13	13 2,3,4,6,7,8-HxCDF	1.48e5	1.17	NO	0.934	10.078	34.680	34.67	1.001	1.001	47.616		0.481	47.6
14	14 1,2,3,7,8,9-HxCDF	1.64e5	1.18	NO	0.871	10.078	35.561	35.61	1.000	1.001	66.703		0.714	66.7
15	15 1,2,3,4,6,7,8-HpCDF	1.05e6	1.00	NO	0.873	10.078	37.376	37.35	1.001	1.000	503.86		0.728	504
16	16 1,2,3,4,7,8,9-HpCDF	2.73e5	1.01	NO	1.01	10.078	39.278	39.29	1.000	1.000	160.22		0.784	160
17	17 OCDF	1.61e6	0.86	NO	0.806	10.078	41.919	41.93	1.000	1.000	831.59		0.618	832
18	18 13C-2,3,7,8-TCDD	9.95e5	0.80	NO	1.16	10.078	26.522	26.48	1.026	1.025	216.57	109	0.244	
19	19 13C-1,2,3,7,8-PeCDD	6.99e5	0.64	NO	0.849	10.078	31.711	31.45	1.227	1.217	207.35	104	0.241	
20	20 13C-1,2,3,4,7,8-HxCDD	5.46e5	1.27	NO	0.779	10.078	34.830	34.81	1.014	1.014	239.03	120	0.725	
21	21 13C-1,2,3,6,7,8-HxCDD	6.47e5	1.27	NO	1.02	10.078	34.944	34.92	1.017	1.017	217.16	109	0.556	
22	22 13C-1,2,3,7,8,9-HxCDD	5.45e5	1.23	NO	0.903	10.078	35.215	35.21	1.025	1.025	205.84	104	0.626	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.39e5	1.04	NO	0.689	10.078	38.739	38.73	1.128	1.128	217.23	109	0.676	
24	24 13C-OCDD	9.02e5	0.88	NO	0.652	10.078	41.761	41.73	1.216	1.215	471.87	119	0.706	
25	25 13C-2,3,7,8-TCDF	1.28e6	0.77	NO	1.06	10.078	25.564	25.59	0.989	0.990	214.83	108	0.298	
26	26 13C-1,2,3,7,8-PeCDF	1.08e6	1.59	NO	0.838	10.078	30.093	30.17	1.165	1.168	229.22	116	0.493	
27	27 13C-2,3,4,7,8-PeCDF	1.05e6	1.61	NO	0.817	10.078	31.047	31.15	1.202	1.205	228.30	115	0.506	
28	28 13C-1,2,3,4,7,8-HxCDF	6.61e5	0.51	NO	1.01	10.078	33.961	33.94	0.989	0.988	223.89	113	0.745	
29	29 13C-1,2,3,6,7,8-HxCDF	7.50e5	0.50	NO	1.17	10.078	34.085	34.07	0.992	0.992	219.38	111	0.644	
30	30 13C-2,3,4,6,7,8-HxCDF	6.62e5	0.51	NO	1.02	10.078	34.659	34.65	1.009	1.009	220.95	111	0.735	
31	31 13C-1,2,3,7,8,9-HxCDF	5.59e5	0.52	NO	0.860	10.078	35.558	35.56	1.035	1.035	221.81	112	0.874	

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-15.qld

Last Altered: Thursday, June 04, 2020 12:40:23 Pacific Daylight Time

Printed: Thursday, June 04, 2020 12:40:46 Pacific Daylight Time

Name: 200603R1_15, Date: 03-Jun-2020, Time: 18:57:34, ID: 2000965-11 PDI-163SC-A-01-02-200425 18.23, Description: PDI-163SC-A-01-02-200425

#	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	4.74e5	0.42	NO	0.774	10.078	37.307	37.34	1.086	1.087	208.64	105	0.648	
33	13C-1,2,3,4,7,8,9-HpCDF	3.34e5	0.44	NO	0.521	10.078	39.336	39.28	1.145	1.144	218.89	110	0.963	
34	13C-OCDF	9.54e5	0.88	NO	0.746	10.078	41.933	41.92	1.221	1.220	436.32	110	0.614	
35	37Cl-2,3,7,8-TCDD	3.43e5			1.04	10.078	26.553	26.51	1.028	1.026	83.252	105	0.146	
36	13C-1,2,3,4-TCDD	7.88e5	0.80	NO	1.00	10.078	25.890	25.84	1.000	1.000	198.44	100	0.283	
37	13C-1,2,3,4-TCDF	1.12e6	0.78	NO	1.00	10.078	24.360	24.15	1.000	1.000	198.44	100	0.315	
38	13C-1,2,3,4,6,9-HxCDF	5.82e5	0.51	NO	1.00	10.078	34.420	34.35	1.000	1.000	198.44	100	0.751	
39	Total Tetra-Dioxins				0.888	10.078	24.620		0.000		14.620		0.0740	15.4
40	Total Penta-Dioxins				0.908	10.078	29.960		0.000		20.622		0.156	23.2
41	Total Hexa-Dioxins				0.892	10.078	33.635		0.000		125.03		0.731	125
42	Total Hepta-Dioxins				0.864	10.078	37.640		0.000		855.02		1.03	855
43	Total Tetra-Furans				0.751	10.078	23.610		0.000		719.12		0.197	719
44	1st Func. Penta-Furans				0.893	10.078	27.580		0.000		53.778		0.0331	53.8
45	Total Penta-Furans				0.893	10.078	29.275		0.000		969.51		0.411	970
46	Total Hexa-Furans				0.934	10.078	33.555		0.000		1440.4		0.491	1440
47	Total Hepta-Furans				0.873	10.078	37.835		0.000		1129.4		0.803	1130

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Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.50	1.155e5	1.523e5	1.064e4	1.401e4	0.76	NO	2.465e4	5.5356	5.5356	0.0740
2	Total Tetra-Dioxins	22.91	3.278e4	4.279e4	3.206e3	4.030e3	0.80	NO	7.235e3	1.6246	1.6246	0.0740
3	Total Tetra-Dioxins	23.44	1.234e4	1.892e4	1.251e3	1.621e3	0.77	NO	2.872e3	0.64488	0.64488	0.0740
4	Total Tetra-Dioxins	24.33	8.178e3	1.032e4	6.266e2	8.691e2	0.72	NO	1.496e3	0.33585	0.33585	0.0740
5	Total Tetra-Dioxins	24.57	2.085e4	2.310e4	1.777e3	1.973e3	0.90	YES	0.000e0	0.00000	0.78418	0.0740
6	Total Tetra-Dioxins	24.79	3.058e4	4.197e4	2.472e3	3.092e3	0.80	NO	5.564e3	1.2494	1.2494	0.0740
7	Total Tetra-Dioxins	25.00	8.338e3	9.415e3	6.275e2	7.140e2	0.88	NO	1.341e3	0.30122	0.30122	0.0740
8	Total Tetra-Dioxins	25.27	7.529e3	9.475e3	6.036e2	8.283e2	0.73	NO	1.432e3	0.32152	0.32152	0.0740
9	Total Tetra-Dioxins	25.44	9.077e3	1.334e4	6.243e2	7.621e2	0.82	NO	1.386e3	0.31130	0.31130	0.0740
10	Total Tetra-Dioxins	25.80	6.282e3	8.342e3	4.965e2	6.880e2	0.72	NO	1.185e3	0.26599	0.26599	0.0740
11	Total Tetra-Dioxins	26.24	4.256e4	4.832e4	3.312e3	4.064e3	0.81	NO	7.375e3	1.6560	1.6560	0.0740
12	2,3,7,8-TCDD	26.51	5.496e4	7.949e4	3.744e3	5.220e3	0.72	NO	8.963e3	2.0126	2.0126	0.0740
13	Total Tetra-Dioxins	26.83	1.386e4	1.349e4	7.184e2	8.910e2	0.81	NO	1.609e3	0.36136	0.36136	0.0740

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	9.534e4	1.659e5	8.141e3	1.371e4	0.59	NO	2.185e4	6.8280	6.8280	0.156
2	Total Penta-Dioxins	29.73	2.873e4	4.046e4	1.508e3	2.391e3	0.63	NO	3.899e3	1.2184	1.2184	0.156
3	Total Penta-Dioxins	30.22	9.422e4	1.549e5	5.538e3	8.647e3	0.64	NO	1.418e4	4.4324	4.4324	0.156
4	Total Penta-Dioxins	30.38	4.588e4	7.626e4	2.394e3	4.133e3	0.58	NO	6.527e3	2.0396	2.0396	0.156
5	Total Penta-Dioxins	30.47	3.614e4	5.109e4	1.891e3	2.896e3	0.65	NO	4.787e3	1.4958	1.4958	0.156
6	Total Penta-Dioxins	30.69	4.226e4	6.323e4	2.262e3	3.361e3	0.67	NO	0.000e0	0.00000	1.7570	0.156
7	Total Penta-Dioxins	30.72	2.367e4	4.566e4	9.687e2	1.545e3	0.63	NO	0.000e0	0.00000	0.78535	0.156
8	Total Penta-Dioxins	31.02	1.284e4	2.218e4	7.654e2	1.360e3	0.56	NO	2.125e3	0.66415	0.66415	0.156
9	1,2,3,7,8-PeCDD	31.45	5.957e4	1.051e5	3.253e3	5.360e3	0.61	NO	8.613e3	2.6914	2.6914	0.156
10	Total Penta-Dioxins	31.54	1.840e4	2.003e4	8.552e2	1.226e3	0.70	NO	2.082e3	0.65048	0.65048	0.156
11	Total Penta-Dioxins	31.85	1.534e4	2.269e4	6.907e2	1.236e3	0.56	NO	1.926e3	0.60191	0.60191	0.156

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.32	1.234e6	9.991e5	6.130e4	4.899e4	1.25	NO	1.103e5	42.351	42.351	0.731
2	Total Hexa-Dioxins	33.89	1.246e5	9.889e4	7.126e3	5.568e3	1.28	NO	1.269e4	4.8745	4.8745	0.731
3	Total Hexa-Dioxins	34.14	1.105e6	8.821e5	7.239e4	5.886e4	1.23	NO	1.313e5	50.401	50.401	0.731
4	Total Hexa-Dioxins	34.25	5.686e4	4.840e4	3.855e3	2.707e3	1.42	NO	6.562e3	2.5197	2.5197	0.731
5	1,2,3,4,7,8-HxCDD	34.84	6.680e4	5.768e4	3.724e3	3.148e3	1.18	NO	6.871e3	2.4178	2.4178	0.627
6	1,2,3,6,7,8-HxCDD	34.94	3.713e5	2.990e5	2.293e4	1.905e4	1.20	NO	4.198e4	14.426	14.426	0.668
7	Total Hexa-Dioxins	35.11	2.948e4	3.021e4	2.111e3	1.881e3	1.12	NO	3.992e3	1.5330	1.5330	0.731
8	1,2,3,7,8,9-HxCDD	35.22	1.346e5	1.082e5	8.363e3	7.484e3	1.12	NO	1.585e4	6.5105	6.5105	0.817

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.74	5.568e6	5.466e6	4.525e5	4.443e5	1.02	NO	8.968e5	469.45	469.45	1.03
2	1,2,3,4,6,7,8-HpCDD	38.76	5.002e6	4.884e6	3.630e5	3.735e5	0.97	NO	7.365e5	385.57	385.57	1.03

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.35	4.045e4	6.334e4	3.616e3	5.221e3	0.69	NO	8.837e3	1.8181	1.8181	0.197
2	Total Tetra-Furans	20.89	8.019e4	1.027e5	7.114e3	9.551e3	0.74	NO	1.667e4	3.4287	3.4287	0.197
3	Total Tetra-Furans	21.50	4.279e5	5.800e5	3.696e4	5.077e4	0.73	NO	8.773e4	18.050	18.050	0.197
4	Total Tetra-Furans	21.96	6.222e4	9.020e4	3.649e3	5.010e3	0.73	NO	8.658e3	1.7814	1.7814	0.197
5	Total Tetra-Furans	22.05	2.003e5	2.648e5	2.343e4	3.154e4	0.74	NO	5.496e4	11.308	11.308	0.197
6	Total Tetra-Furans	22.37	9.907e4	1.410e5	3.855e3	5.553e3	0.69	NO	9.407e3	1.9355	1.9355	0.197
7	Total Tetra-Furans	22.47	1.284e6	1.733e6	1.240e5	1.693e5	0.73	NO	2.934e5	60.356	60.356	0.197
8	Total Tetra-Furans	22.64	1.120e4	1.375e4	9.695e2	1.130e3	0.86	NO	2.099e3	0.43190	0.43190	0.197
9	Total Tetra-Furans	22.97	4.271e5	5.743e5	4.120e4	5.600e4	0.74	NO	9.720e4	19.999	19.999	0.197
10	Total Tetra-Furans	23.10	5.139e4	7.031e4	4.445e3	5.924e3	0.75	NO	1.037e4	2.1332	2.1332	0.197
11	Total Tetra-Furans	23.33	2.094e5	2.889e5	1.917e4	2.614e4	0.73	NO	4.531e4	9.3211	9.3211	0.197
12	Total Tetra-Furans	23.76	3.429e4	4.578e4	3.190e3	3.961e3	0.81	NO	7.150e3	1.4711	1.4711	0.197
13	Total Tetra-Furans	23.91	3.892e4	4.639e4	3.355e3	3.864e3	0.87	NO	7.219e3	1.4852	1.4852	0.197
14	Total Tetra-Furans	24.07	2.406e5	3.513e5	1.500e4	2.053e4	0.73	NO	3.553e4	7.3092	7.3092	0.197
15	Total Tetra-Furans	24.16	7.847e5	1.039e6	7.495e4	9.993e4	0.75	NO	1.749e5	35.981	35.981	0.197
16	Total Tetra-Furans	24.67	5.910e6	7.867e6	4.813e5	6.446e5	0.75	NO	1.126e6	231.65	231.65	0.197
17	Total Tetra-Furans	24.79	7.970e4	9.735e4	3.434e3	4.609e3	0.75	NO	8.043e3	1.6547	1.6547	0.197
18	Total Tetra-Furans	24.97	2.128e5	2.894e5	1.817e4	2.474e4	0.73	NO	4.291e4	8.8280	8.8280	0.197
19	Total Tetra-Furans	25.17	3.671e4	4.744e4	3.422e3	4.754e3	0.72	NO	8.176e3	1.6821	1.6821	0.197
20	Total Tetra-Furans	25.39	6.384e4	7.954e4	3.859e3	5.045e3	0.77	NO	8.904e3	1.8319	1.8319	0.197
21	Total Tetra-Furans	25.51	8.380e5	1.158e6	5.681e4	7.836e4	0.72	NO	1.352e5	27.812	27.812	0.197
22	2,3,7,8-TCDF	25.62	6.739e6	9.026e6	4.917e5	6.550e5	0.75	NO	1.147e6	235.92	235.92	0.197
23	Total Tetra-Furans	25.80	3.666e4	5.856e4	2.986e3	4.220e3	0.71	NO	7.206e3	1.4825	1.4825	0.197
24	Total Tetra-Furans	25.99	2.584e5	3.452e5	1.885e4	2.629e4	0.72	NO	4.514e4	9.2878	9.2878	0.197
25	Total Tetra-Furans	26.24	6.479e4	7.428e4	4.538e3	5.234e3	0.87	NO	9.772e3	2.0105	2.0105	0.197
26	Total Tetra-Furans	27.62	6.701e5	8.662e5	4.322e4	5.475e4	0.79	NO	9.797e4	20.156	20.156	0.197

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	27.59	2.557e6	1.632e6	1.585e5	9.995e4	1.59	NO	2.584e5	53.778	53.778	0.0331

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.06	2.483e5	1.712e5	1.566e4	9.931e3	1.58	NO	2.559e4	5.3251	5.3251	0.411
2	Total Penta-Furans	29.19	9.351e6	5.983e6	5.661e5	3.664e5	1.55	NO	9.325e5	194.05	194.05	0.411
3	Total Penta-Furans	29.25	6.393e5	3.894e5	2.274e4	1.292e4	1.76	NO	3.566e4	7.4210	7.4210	0.411
4	Total Penta-Furans	29.77	7.692e5	4.859e5	4.761e4	3.165e4	1.50	NO	7.926e4	16.495	16.495	0.411
5	Total Penta-Furans	29.85	2.084e5	1.316e5	8.233e3	5.346e3	1.54	NO	1.358e4	2.8258	2.8258	0.411
6	Total Penta-Furans	29.99	2.202e6	1.447e6	1.203e5	7.677e4	1.57	NO	1.971e5	41.016	41.016	0.411
7	1,2,3,7,8-PeCDF	30.18	1.923e7	1.249e7	1.081e6	7.068e5	1.53	NO	1.787e6	366.47	366.47	0.430
8	Total Penta-Furans	30.26	4.959e5	3.269e5	1.687e4	1.104e4	1.53	NO	2.791e4	5.8088	5.8088	0.411
9	Total Penta-Furans	30.44	6.686e6	4.399e6	3.593e5	2.298e5	1.56	NO	5.891e5	122.60	122.60	0.411
10	Total Penta-Furans	31.05	1.286e5	7.587e4	5.872e3	3.387e3	1.73	NO	9.259e3	1.9268	1.9268	0.411
11	2,3,4,7,8-PeCDF	31.16	9.512e6	6.127e6	4.727e5	3.075e5	1.54	NO	7.802e5	157.38	157.38	0.374
12	Total Penta-Furans	31.19	5.090e6	3.112e6	1.197e5	7.212e4	1.66	NO	1.918e5	39.914	39.914	0.411
13	Total Penta-Furans	32.09	4.580e5	2.985e5	2.427e4	1.557e4	1.56	NO	3.984e4	8.2910	8.2910	0.411

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.78	9.871e5	7.918e5	4.775e4	3.926e4	1.22	NO	8.701e4	28.091	28.091	0.491
2	Total Hexa-Furans	32.95	3.848e6	3.213e6	1.974e5	1.654e5	1.19	NO	3.628e5	117.14	117.14	0.491
3	Total Hexa-Furans	33.30	6.662e4	6.284e4	3.506e3	3.199e3	1.10	NO	6.705e3	2.1647	2.1647	0.491
4	Total Hexa-Furans	33.49	3.573e6	3.047e6	1.814e5	1.534e5	1.18	NO	3.348e5	108.07	108.07	0.491
5	Total Hexa-Furans	33.86	1.693e5	1.483e5	7.165e3	6.668e3	1.07	NO	1.383e4	4.4656	4.4656	0.491
6	1,2,3,4,7,8-HxCDF	33.96	2.328e7	1.954e7	1.302e6	1.097e6	1.19	NO	2.399e6	814.08	814.08	0.466
7	1,2,3,6,7,8-HxCDF	34.08	6.763e6	5.654e6	4.095e5	3.432e5	1.19	NO	7.528e5	223.88	223.88	0.436
8	Total Hexa-Furans	34.20	1.456e5	1.230e5	8.646e3	7.135e3	1.21	NO	1.578e4	5.0946	5.0946	0.491
9	Total Hexa-Furans	34.35	9.907e4	7.988e4	6.656e3	5.009e3	1.33	NO	1.167e4	3.7660	3.7660	0.491
10	2,3,4,6,7,8-HxCDF	34.67	1.429e6	1.148e6	7.984e4	6.849e4	1.17	NO	1.483e5	47.616	47.616	0.481
11	1,2,3,7,8,9-HxCDF	35.61	1.752e6	1.471e6	8.839e4	7.516e4	1.18	NO	1.636e5	66.703	66.703	0.714
12	Total Hexa-Furans	35.63	1.403e6	1.111e6	3.317e4	2.670e4	1.24	NO	5.987e4	19.328	19.328	0.491

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.35	7.013e6	6.928e6	5.249e5	5.254e5	1.00	NO	1.050e6	503.86	503.86	0.728
2	Total Hepta-Furans	37.76	9.532e4	8.919e4	6.412e3	6.642e3	0.97	NO	1.305e4	7.3428	7.3428	0.803
3	Total Hepta-Furans	37.96	4.877e6	4.907e6	4.052e5	4.089e5	0.99	NO	8.142e5	457.95	457.95	0.803
4	1,2,3,4,7,8,9-HpCDF	39.29	2.069e6	2.090e6	1.374e5	1.360e5	1.01	NO	2.733e5	160.22	160.22	0.784

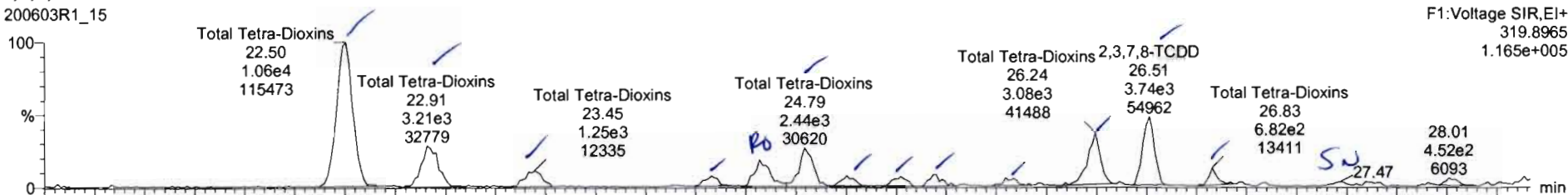
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Last Altered: Thursday, June 04, 2020 07:30:27 Pacific Daylight Time
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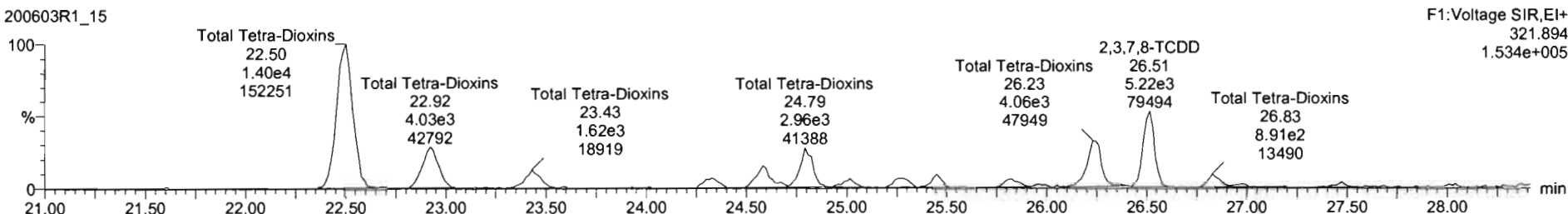
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2,3,7,8-TCDD

200603R1_15

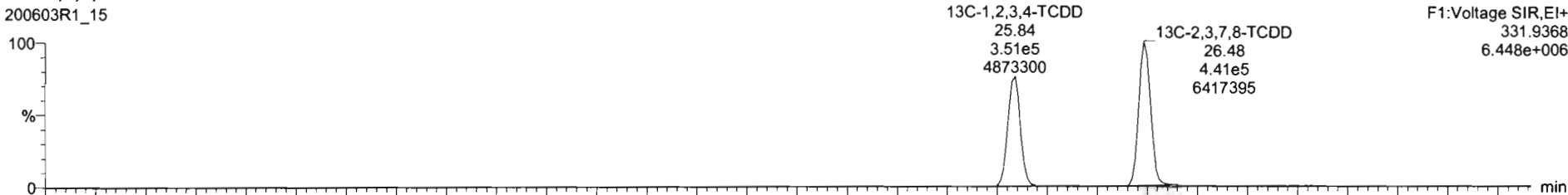


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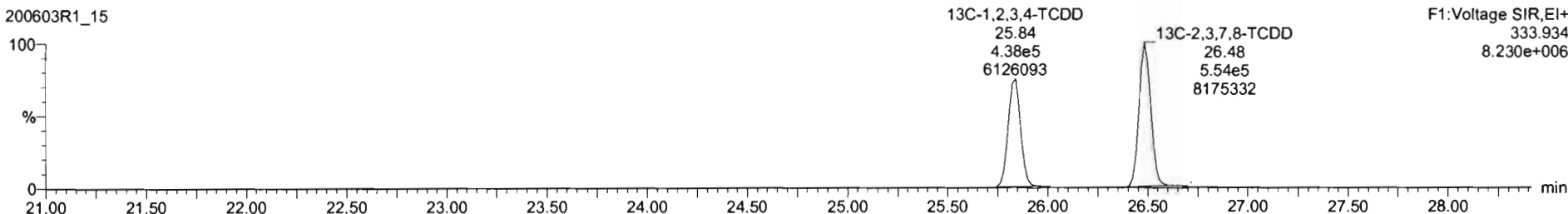


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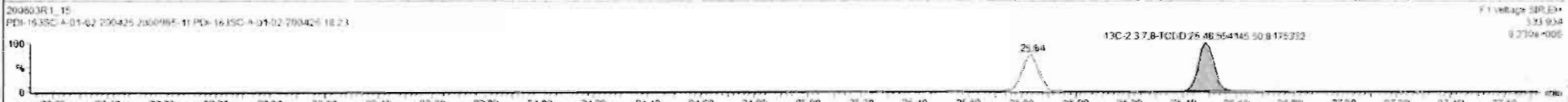
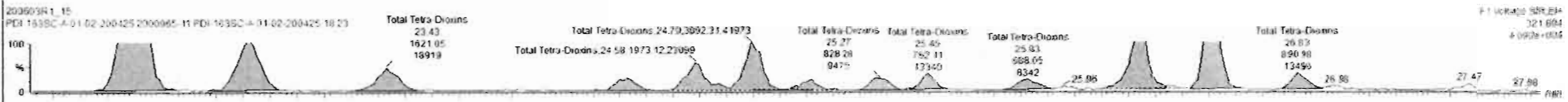
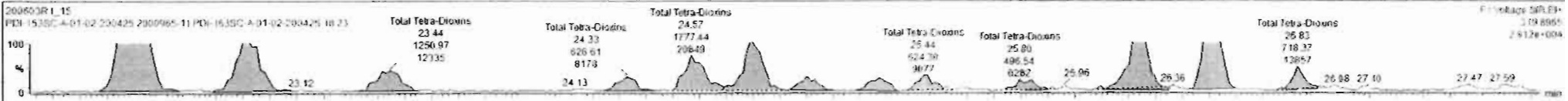
200603R1_15



200603R1_15



SI	Name	Resp	RA	ny	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	5.57e5	0.51	NO	1.0000	10.078	24.35	1.000	100	100	0.751	
39	Total Tetra-Dioxins				0.8883	10.078			14.6		0.0740	15.4
40	Total Penta-Dioxins				0.9081	10.078			19.2		0.156	22.3
41	Total Hexa-Dioxins				0.8927	10.078			129		0.231	124
42	Total Hepta-Dioxins				0.9636	10.078			854		1.03	858
43	Total Tetra-Furans				0.7510	10.078			762		0.197	763
44	1st Func. Penta-Furans				0.8925	10.078			53.8		0.0331	53.8
45	Total Penta-Furans				0.8925	10.078			962		0.411	964
46	Total Hexa-Furans				0.9241	10.078			1410		0.491	1410
47	Total Hepta-Furans				0.8724	10.078			1130		0.803	1130
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



Dataset: Untitled

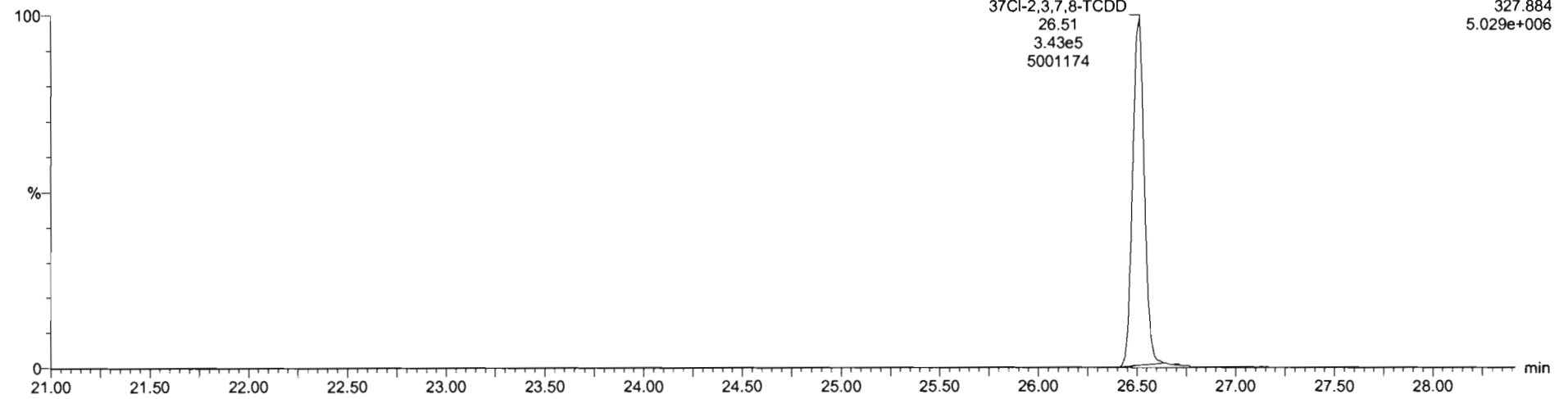
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Name: 200603R1_15, Date: 03-Jun-2020, Time: 18:57:34, ID: 2000965-11 PDI-163SC-A-01-02-200425 18.23, Description: PDI-163SC-A-01-02-200425

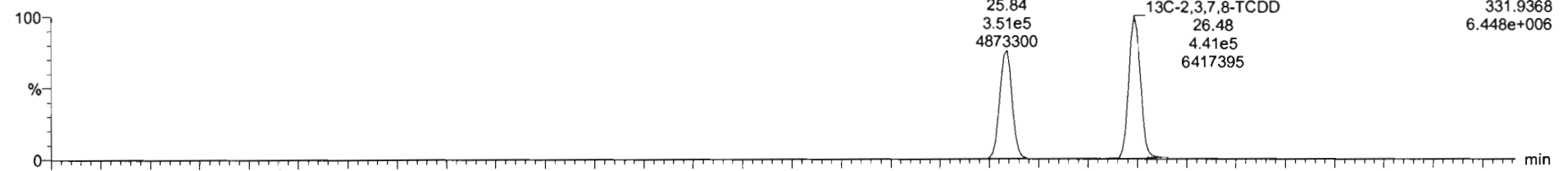
37Cl-2,3,7,8-TCDD

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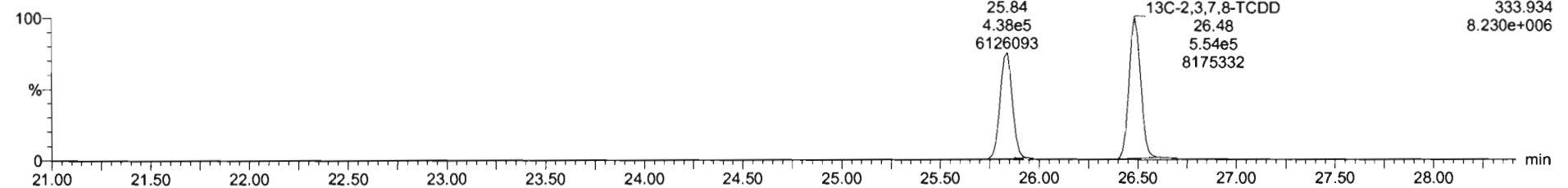


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200603R1_15



200603R1_15



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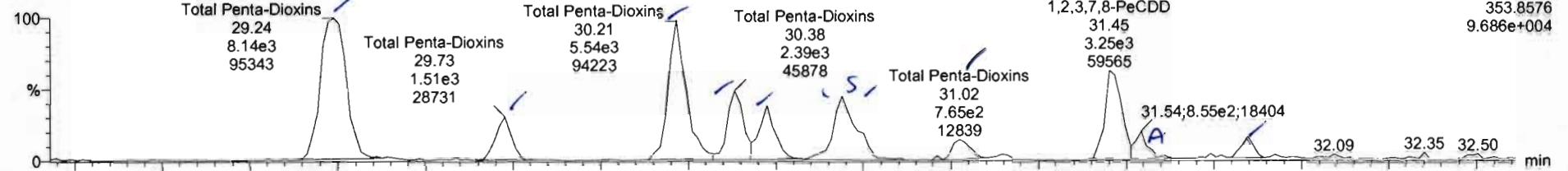
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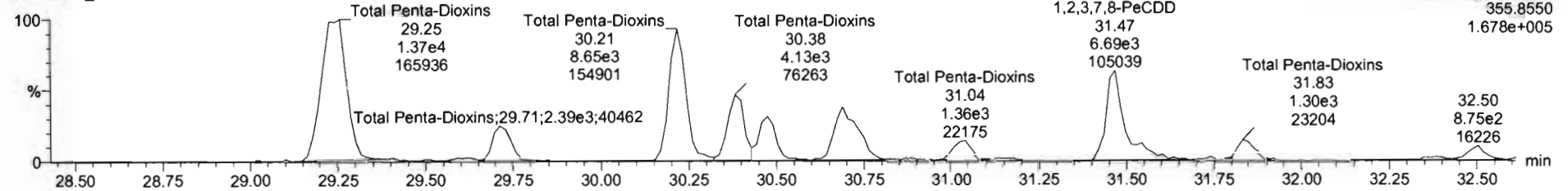
1,2,3,7,8-PeCDD

200603R1_15



F2:Voltage SIR,EI+
353.8576
9.686e+004

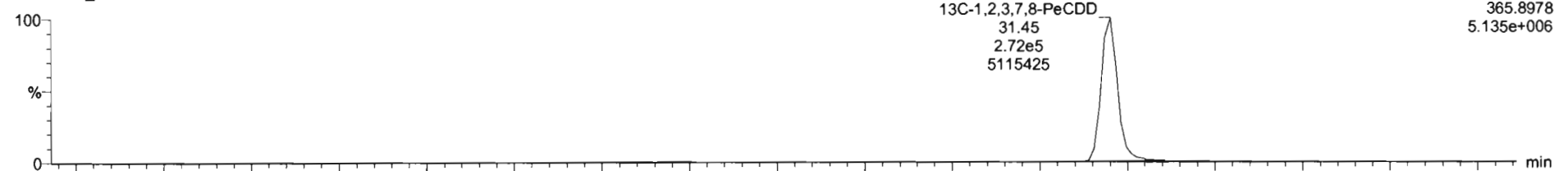
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F2:Voltage SIR,EI+
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1.678e+005

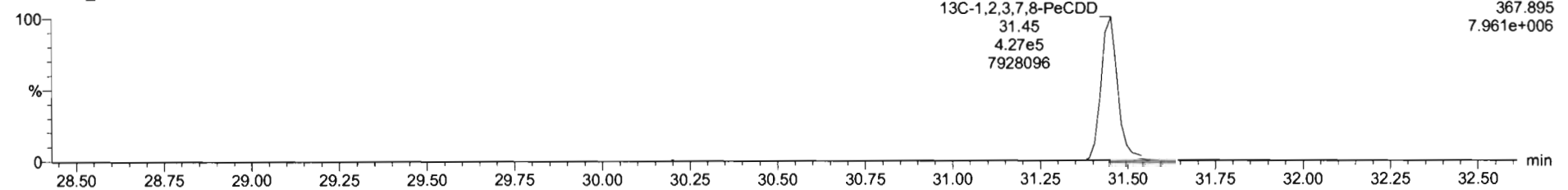
13C-1,2,3,7,8-PeCDD

200603R1_15



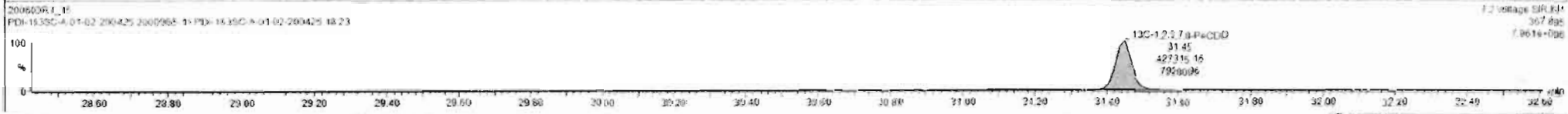
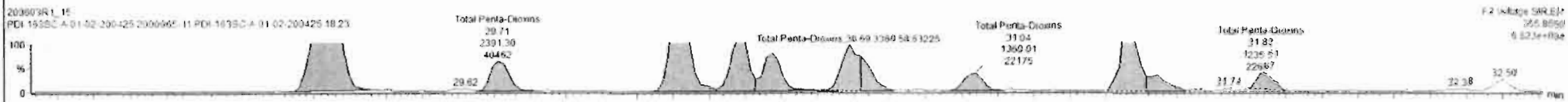
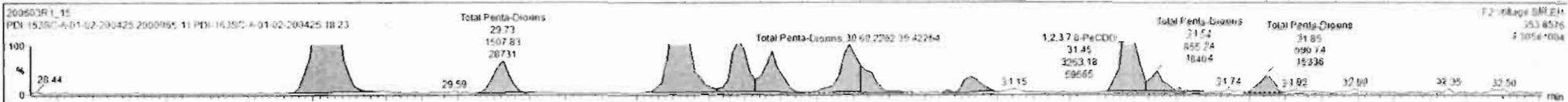
F2:Voltage SIR,EI+
365.8978
5.135e+006

200603R1_15



F2:Voltage SIR,EI+
367.895
7.961e+006

Name	Resp	RA	inj	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	5.82e5	0.51	NO	1.0000	10.075	34.35	1.000	190	160	0.751	
39 Total Tetra-Dioxins				0.8883	10.075			14.8		0.0740	15.1
40 Total Penta-Dioxins				0.9601	10.075			28.6		0.156	23.6
41 Total Hexa-Dioxins				0.8523	10.075			123		0.731	124
42 Total Hepta-Dioxins				0.8635	10.075			85.6		1.03	85.8
43 Total Tetra-Furans				0.7510	10.075			702		0.197	703
44 1st Func. Penta-Furans				0.8925	10.075			53.8		0.0331	53.8
45 Total Penta-Furans				0.6925	10.075			962		0.411	964
46 Total Hexa-Furans				0.8241	10.075			1410		0.491	1410
47 Total Hepta-Furans				0.8734	10.075			1130		0.803	1130
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPF1											
54 DPF2											
55 DPF3											
56 DPF4											
57 DPF5											
58 DPF6											



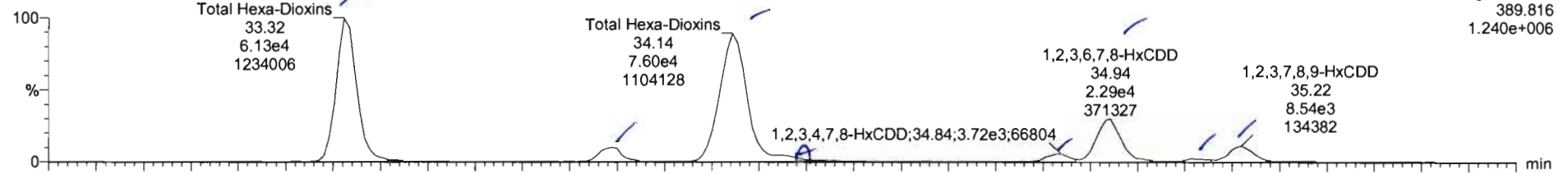
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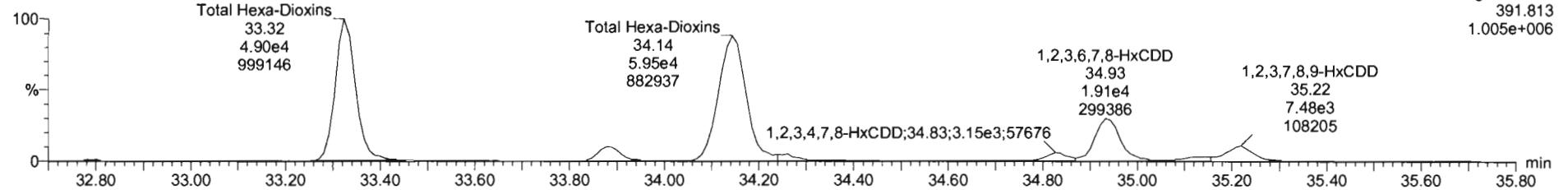
Name: 200603R1_15, Date: 03-Jun-2020, Time: 18:57:34, ID: 2000965-11 PDI-163SC-A-01-02-200425 18.23, Description: PDI-163SC-A-01-02-200425

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

200603R1_15

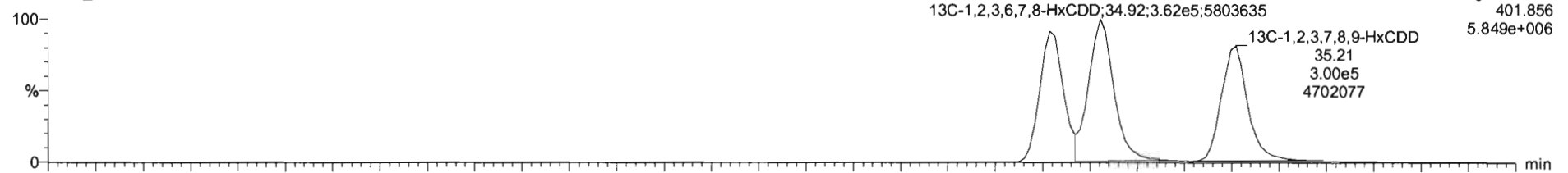


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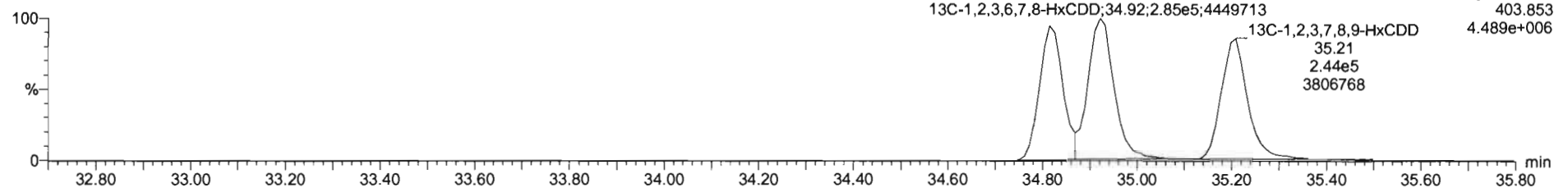


13C-1,2,3,4,7,8-HxCDD

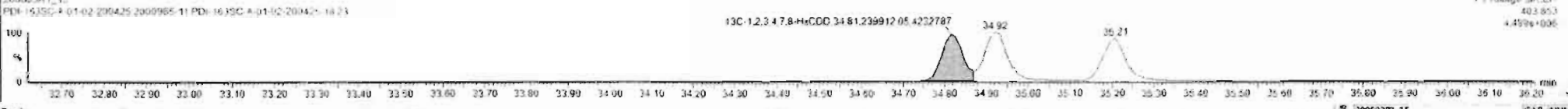
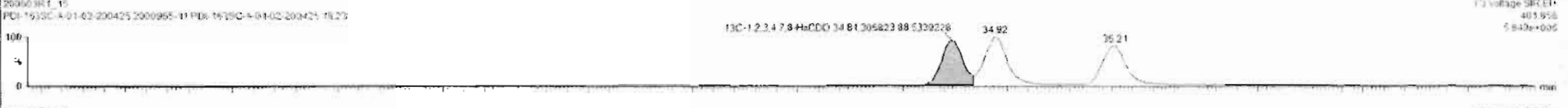
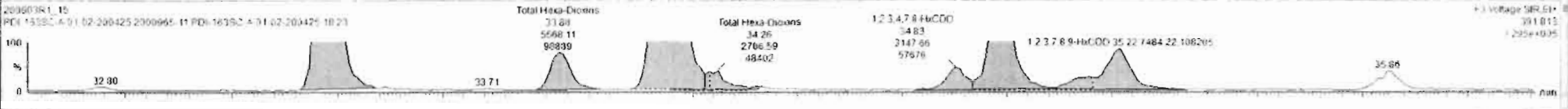
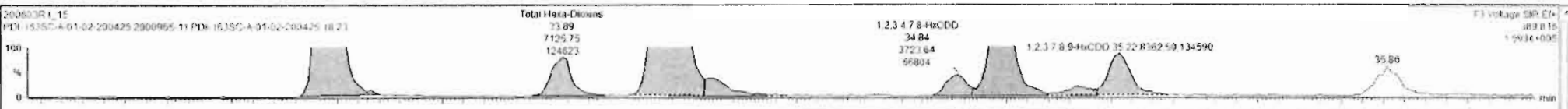
200603R1_15



200603R1_15



Name	Resp	RA	inj	RRF	injVol	RT	RRT	Conc	%Rec	DL	EMFC
38 13C-1,2,3,4,6,8-HxCDF	5.82e5	0.51	NG	1.0000	10.075	34.35	1.000	190	100	0.7511	
39 Total Tetra-Dioxins				0.8853	10.075			14.6		0.0740	15.3
40 Total Penta-Dioxins				0.5311	10.075			28.6		0.156	23.2
41 Total Hexa-Dioxins				0.6923	10.075			125		0.731	125
42 Total Hepta-Dioxins				0.9635	10.075			855		1.03	855
43 Total Tetra-Furans				0.7510	10.075			702		0.197	702
44 Tot Func. Penta-Furans				0.8925	10.075			53.8		0.0331	53.8
45 Total Penta-Furans				0.8935	10.075			962		0.411	964
46 Total Hexa-Furans				0.9341	10.075			1410		0.491	1410
47 Total Hepta-Furans				0.8734	10.075			1130		0.863	1130
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



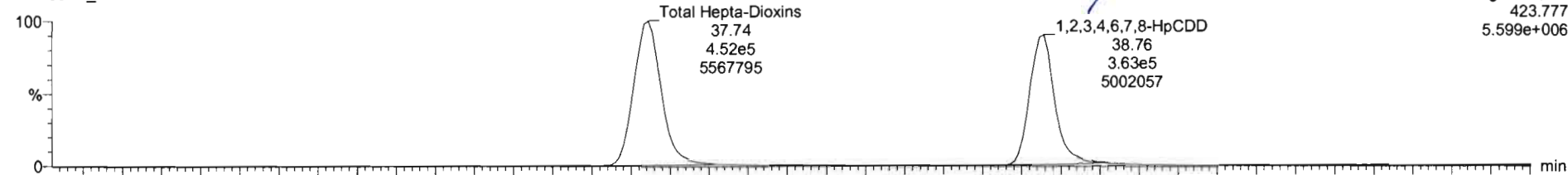
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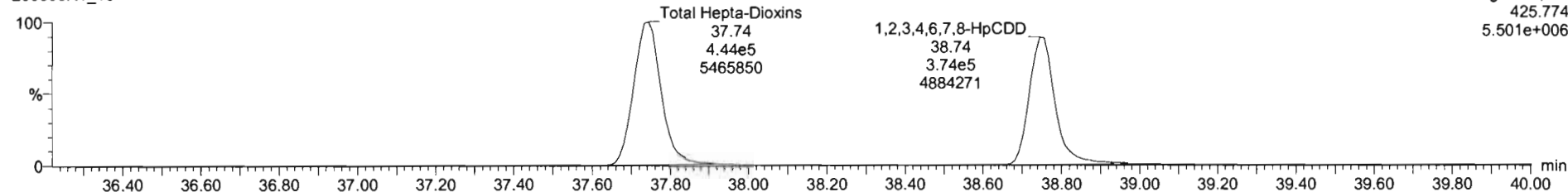
Name: 200603R1_15, Date: 03-Jun-2020, Time: 18:57:34, ID: 2000965-11 PDI-163SC-A-01-02-200425 18.23, Description: PDI-163SC-A-01-02-200425

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

200603R1_15

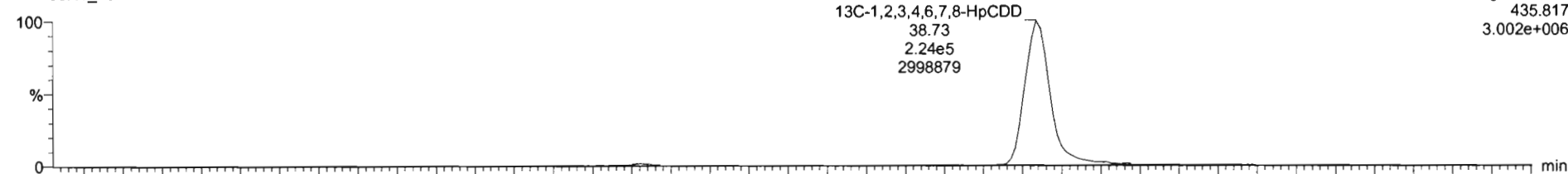


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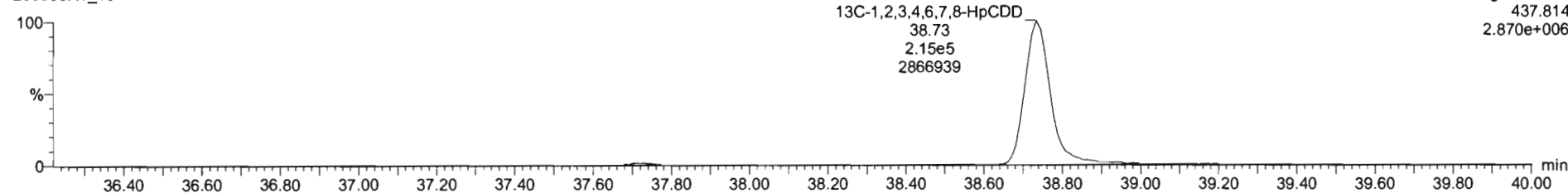


13C-1,2,3,4,6,7,8-HpCDD

200603R1_15



200603R1_15



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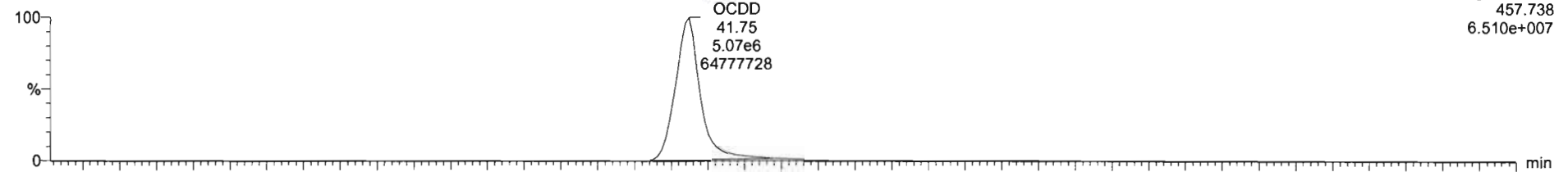
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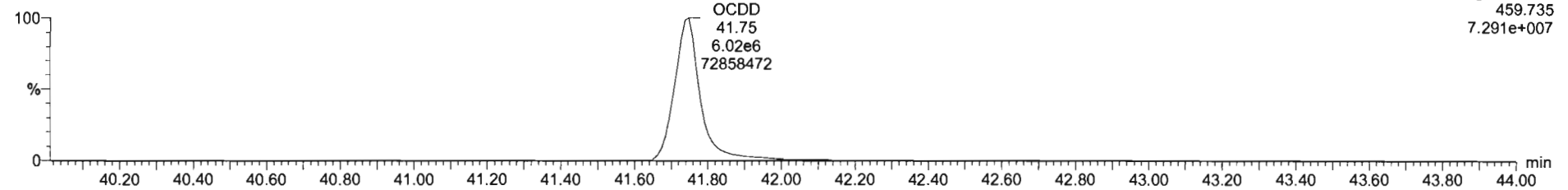
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OCDD

200603R1_15

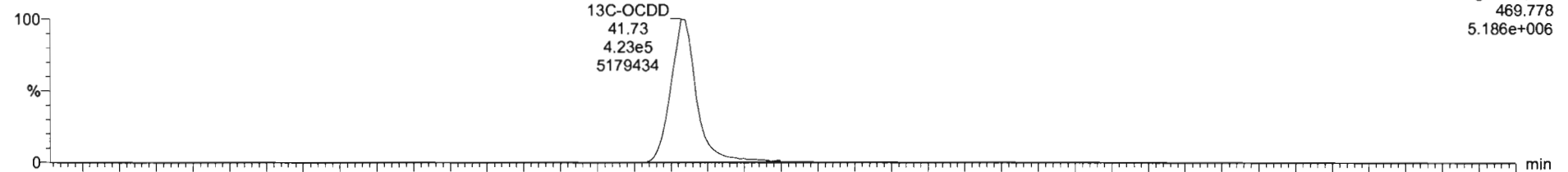


200603R1_15

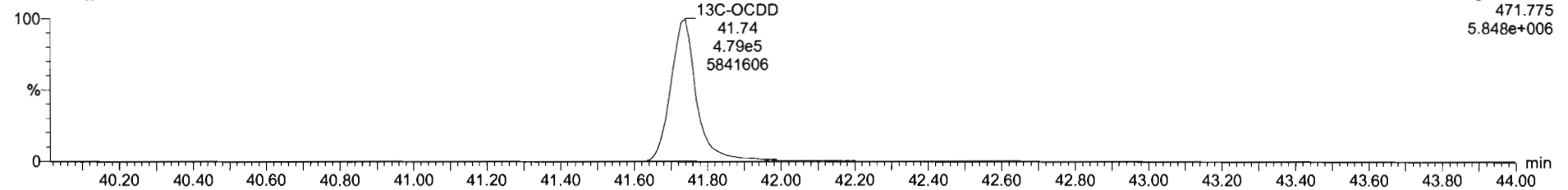


13C-OCDD

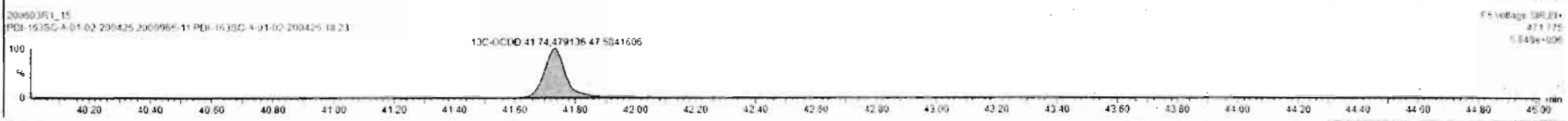
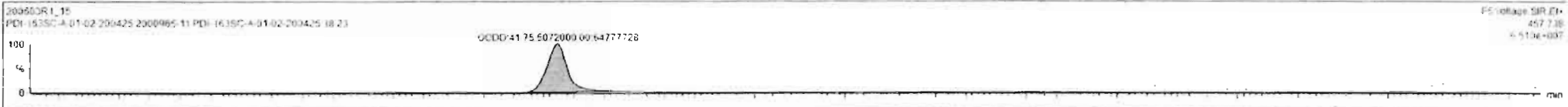
200603R1_15



200603R1_15



Name	Resp	RA	dy	RRF	whvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	6.96e3	0.72	NO	0.8887	10.078	26.11	1.001	2.61		0.0740	2.01
2 1,2,3,7,8-PeCDD	9.94e3	0.45	YES	0.9051	10.078	31.45	1.000	3.11		0.156	2.63
3 1,2,3,4,7,8-HxCDD	6.87e3	1.10	NO	1.0334	10.078	34.84	1.001	2.42		0.827	2.42
4 1,2,3,6,7,8-HxCDD	4.28e4	1.20	NO	0.8973	10.078	34.94	1.001	14.4		0.866	14.4
5 1,2,3,7,8,9-HxCDD	1.66e4	1.14	NO	0.9005	10.078	35.22	1.000	6.58		0.817	6.58
6 1,2,3,4,6,7,8-HpCDD	7.37e5	0.97	NO	0.8639	10.078	36.76	1.001	386		1.92	396
7 OCDD	1.69e7	6.88	NO	0.9136	10.078	41.75	1.001	5230		1.28	5230
8 2,3,7,8-TCDF	1.12e6	0.76	NO	0.7510	10.078	25.61	1.001	230		0.197	230
9 1,2,3,7,8-PeCDF	1.81e6	1.54	NO	0.8925	10.078	30.18	1.000	370		0.430	370
10 2,3,4,7,8-PeCDF	9.65e5	1.55	NO	0.9348	10.078	31.16	1.000	195		0.374	195
11 1,2,3,4,7,8-HxCDF	2.57e5	1.19	NO	0.8845	10.078	33.96	1.001	804		0.486	804
12 1,2,3,6,7,8-HxCDF	7.11e5	1.20	NO	0.8892	10.078	34.06	1.000	212		0.426	212
13 2,3,4,6,7,8-HxCDF	1.48e5	1.17	NO	0.9341	10.078	34.67	1.001	47.6		0.481	47.6
14 1,2,3,7,8,9-HxCDF	2.26e5	1.20	NO	0.8707	10.078	35.61	1.001	89.8		0.714	89.8
15 1,2,3,4,6,7,8-HpCDF	1.05e6	1.00	NO	0.8734	10.078	37.35	1.000	504		0.720	504
16 1,2,3,4,7,8,9-HpCDF	2.73e5	1.01	NO	1.0126	10.078	39.29	1.000	150		0.784	160
17 OCDF	1.61e6	0.86	NO	0.8085	10.078	41.93	1.000	832		0.618	832
18 13C-2,3,7,8-TCDD	9.95e5	0.80	NO	1.1563	10.078	26.48	1.025	217	100	0.244	
19 13C-1,2,3,7,8-PeCDD	6.99e5	0.64	NO	0.8490	10.078	31.45	1.217	207	104	0.241	
20 13C-1,2,3,4,7,8-HxCDD	5.46e5	1.27	NO	0.7790	10.078	34.81	1.014	239	120	0.725	
21 13C-1,2,3,6,7,8-HxCDD	6.47e5	1.27	NO	1.0187	10.078	34.92	1.017	217	100	0.556	



Dataset: Untitled

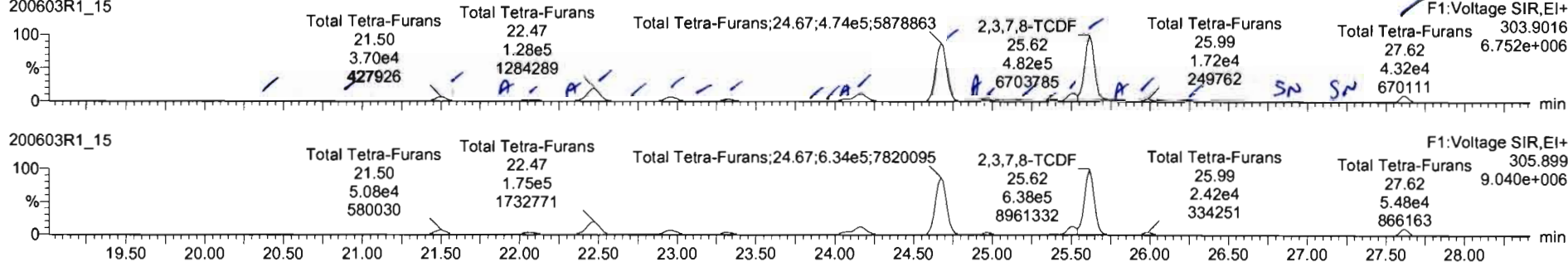
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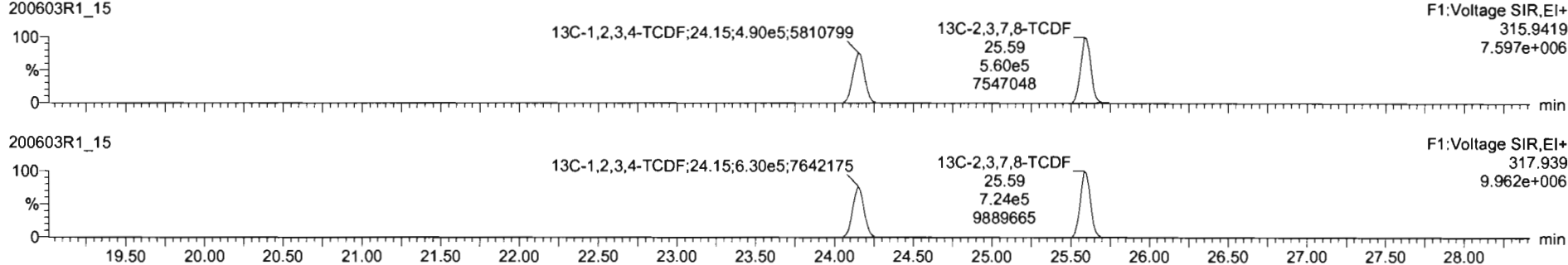
2,3,7,8-TCDF

200603R1_15



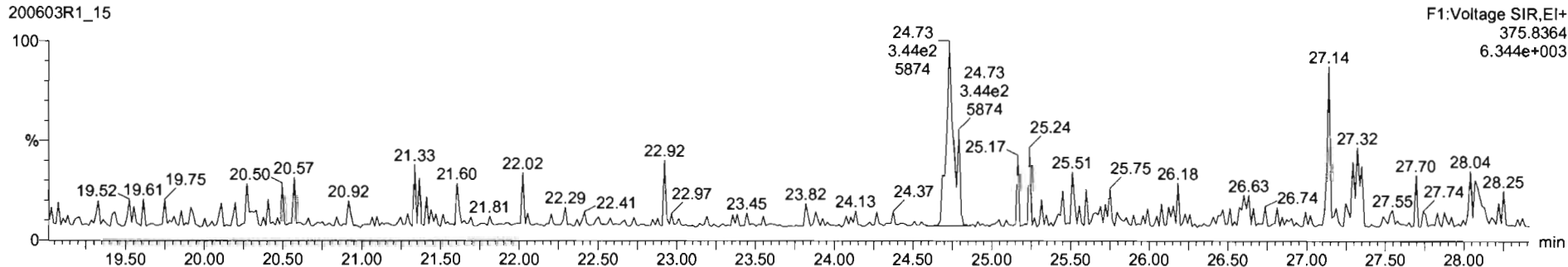
13C-2,3,7,8-TCDF

200603R1_15

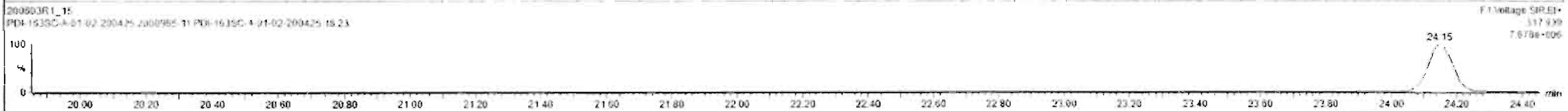
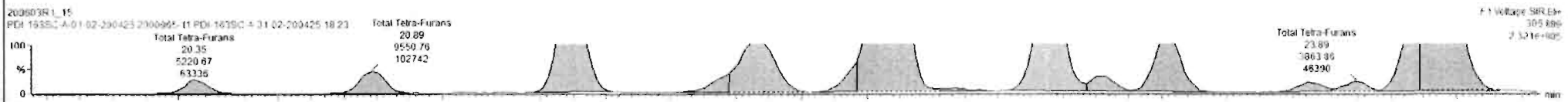
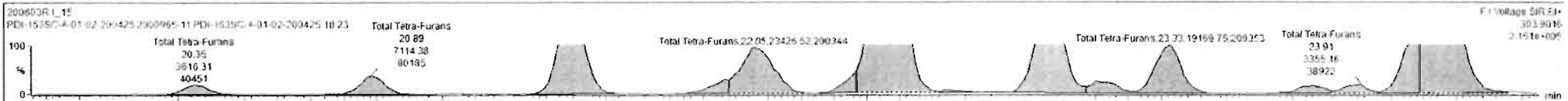


DPE1

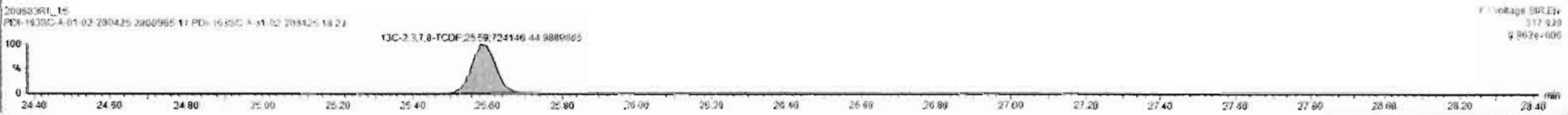
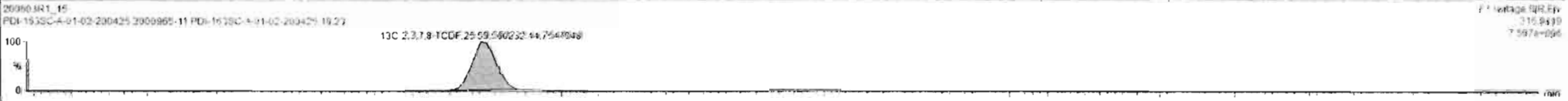
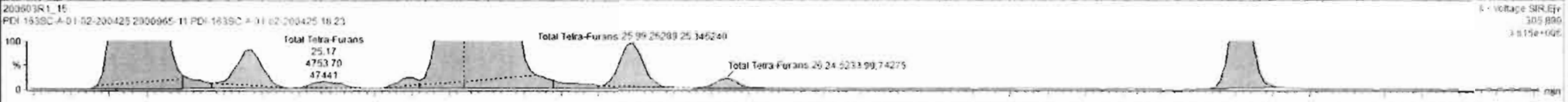
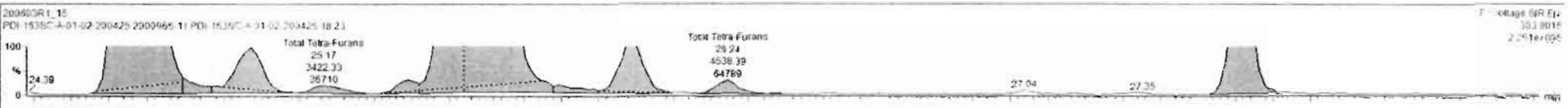
200603R1_15



#	Name	Resp	RA	Qty	RRF	RetVol	RT	RRT	Conc.	%Rec	DL	EMPC
38	1,2,3,4,6-S-triCDF	5.82e5	0.51	NO	1.0000	10.075	24.35	1.000	198	100	0.761	
39	Total Tetra-Dioxins				0.8863	10.075			15.8		0.0740	15.4
40	Total Penta-Dioxins				0.9081	10.075			26.6		0.156	23.2
41	Total Hexa-Dioxins				0.8523	10.075			125		0.731	125
42	Total Hepta-Dioxins				0.9835	10.075			855		1.03	855
43	Total Tetra-Furans				0.7510	10.075			783		0.197	783
44	Total Penta-Furans				0.8525	10.075			53.8		0.0331	53.8
45	Total Hexa-Furans				0.8525	10.075			962		0.411	964
46	Total Hepta-Furans				0.9341	10.075			1410		0.491	1410
47	Total Octa-Furans				0.8734	10.075			1130		0.803	1130
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



K	Name	Resp	SA	my	RRF	actual	RT	RRT	Conc.	%Rec.	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	5.8265	0.51	NO	1.0000	10.078	34.35	1.000	198	100	0.751	
39	Total Tetra-Dioxins				0.8583	10.078			14.8		0.0740	15.4
40	Total Penta-Dioxins				0.9081	10.078			20.6		0.156	23.2
41	Total Hexa-Dioxins				0.8523	10.078			125		0.731	127
42	Total Hepta-Dioxins				0.9035	10.078			855		1.03	29.5
43	Total Tetra-Furans				0.7519	10.078			719		0.197	719
44	1st Func. Penta-Furans				0.8525	10.078			53.8		0.0331	53.8
45	Total Penta-Furans				0.8525	10.078			962		0.411	964
46	Total Hexa-Furans				0.9241	10.078			1410		0.491	1410
47	Total Hepta-Furans				0.8774	10.078			1120		0.862	1130
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



Dataset: Untitled

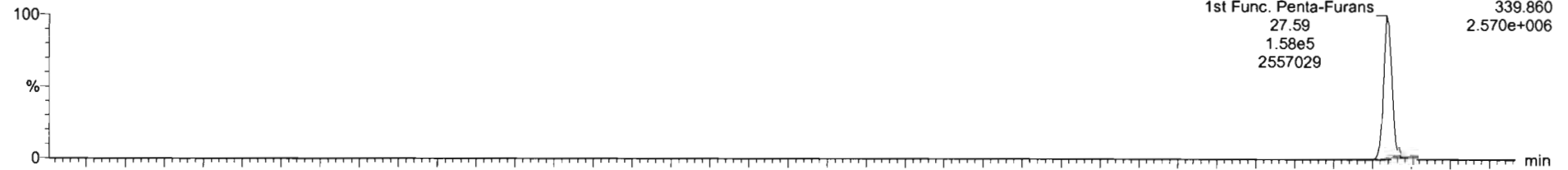
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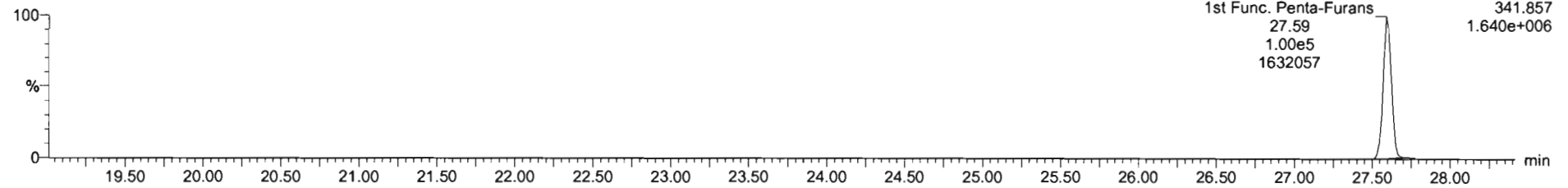
Name: 200603R1_15, Date: 03-Jun-2020, Time: 18:57:34, ID: 2000965-11 PDI-163SC-A-01-02-200425 18.23, Description: PDI-163SC-A-01-02-200425

1st Func. Penta-Furans

200603R1_15

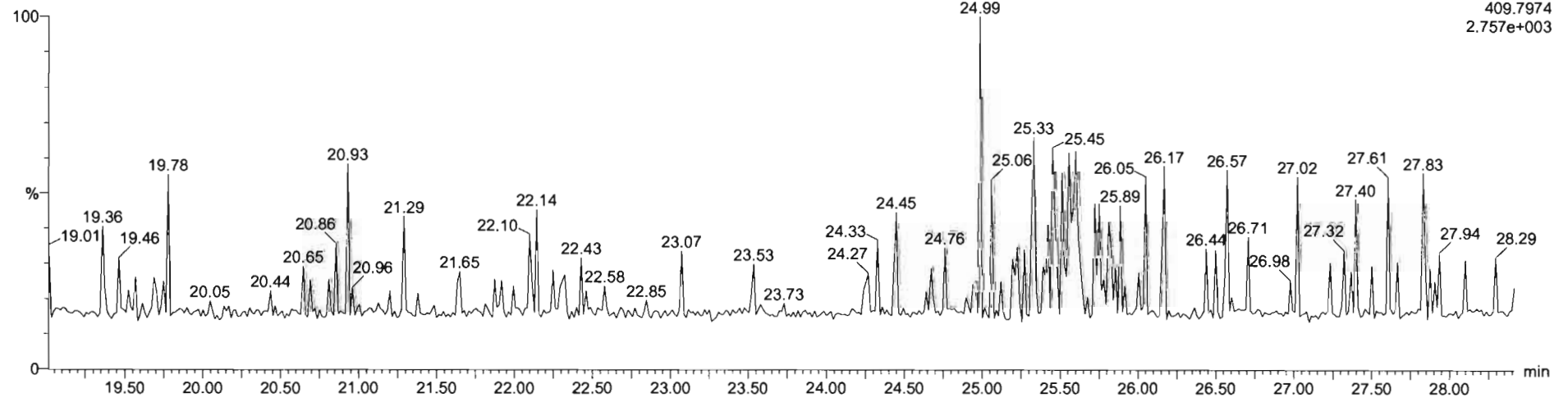


200603R1_15



DPE6

200603R1_15

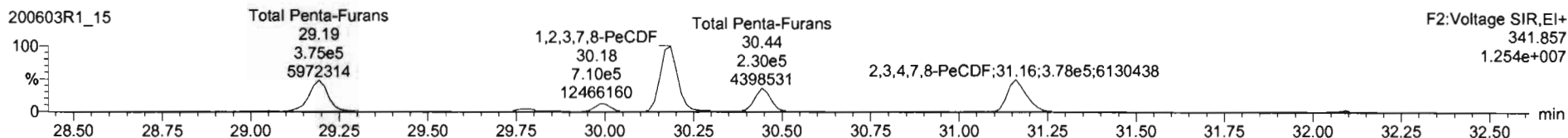
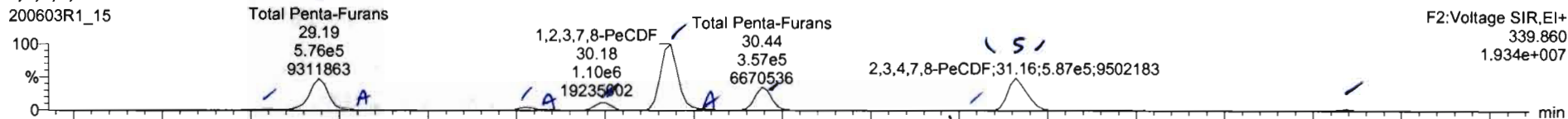


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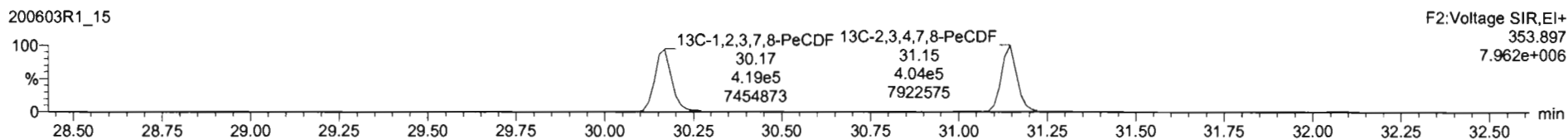
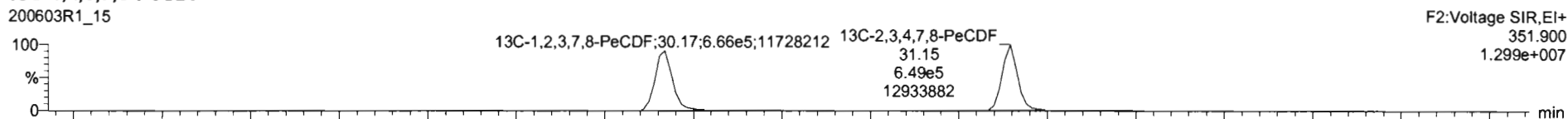
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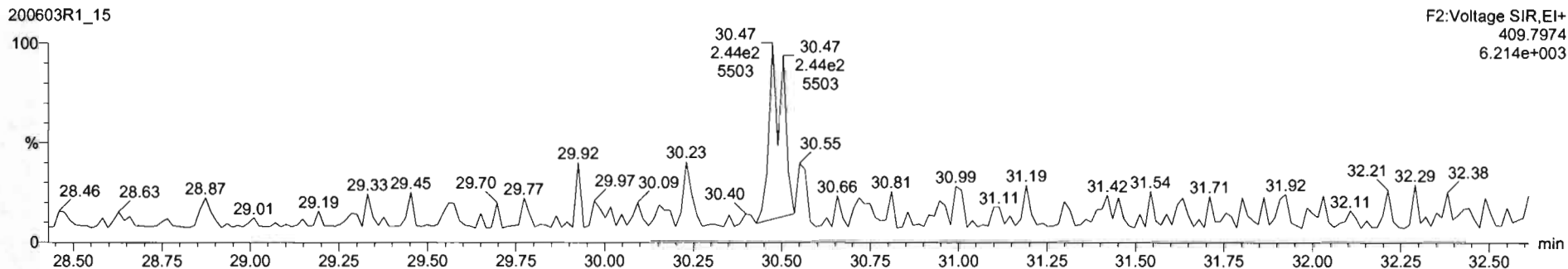
1,2,3,7,8-PeCDF



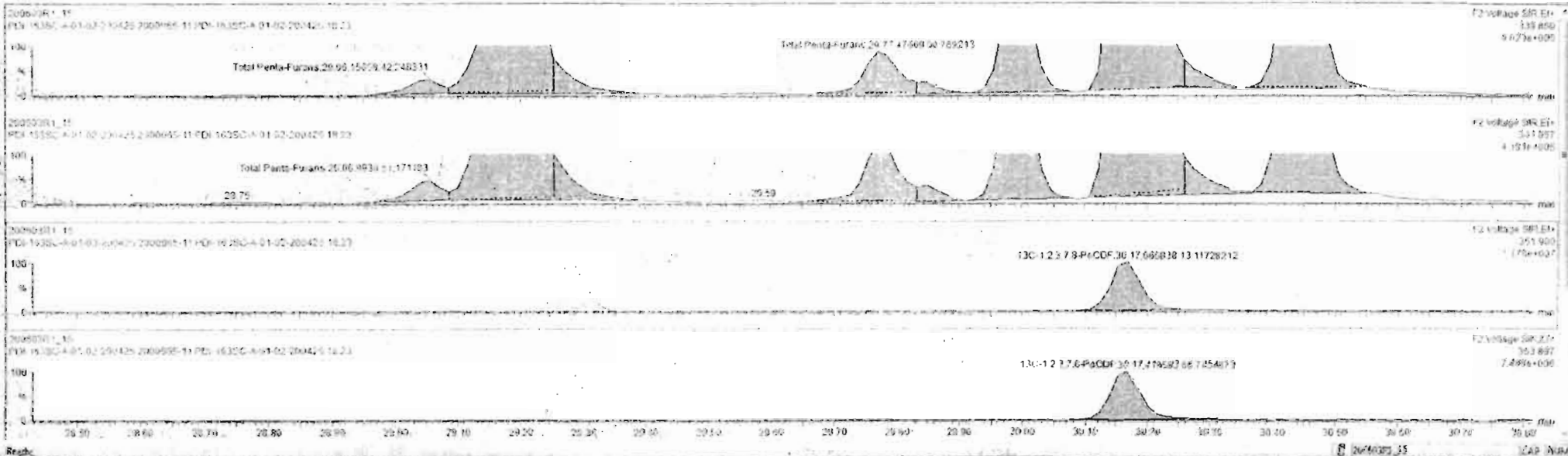
13C-1,2,3,7,8-PeCDF



DPE2



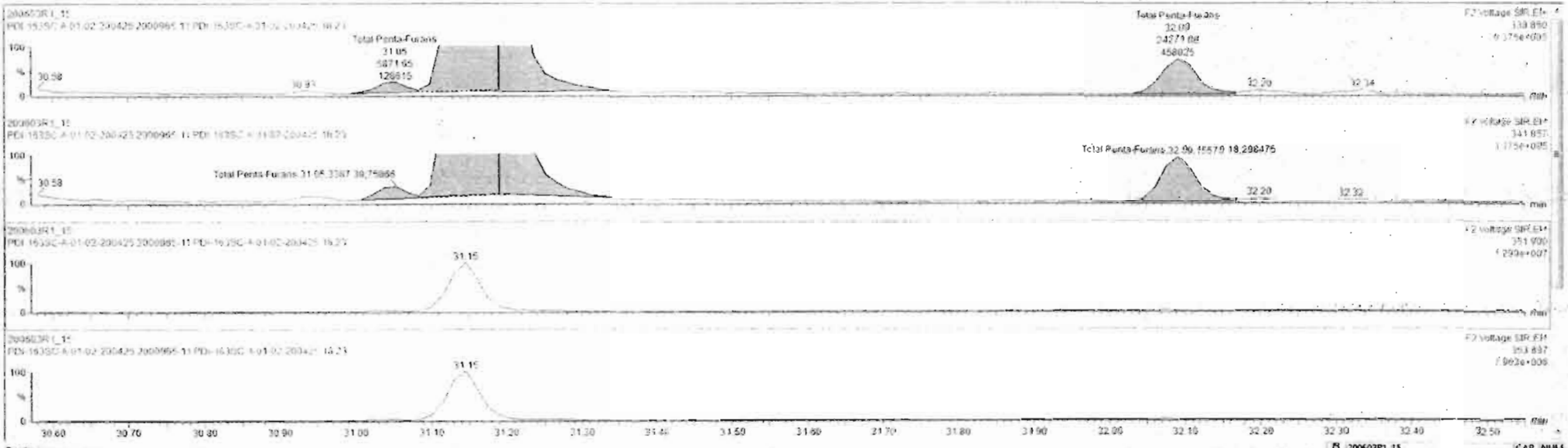
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38	13C-12-14-8-PeCDF	5-RZer	9-01	No	1.8606	10.075	24.70	1.000	190	100	0.751	
39	Total Toluene				0.8865	10.075			140		0.0740	15.1
40	Total Penta-Dioxins				0.5601	10.075			205		0.158	22.2
41	Total Hexa-Dioxins				0.8922	10.075			127		0.234	12.0
42	Total Hepta-Dioxins				0.8635	10.075			554		1.63	26.0
43	Total Tetra-Furans				0.7510	10.075			719		0.199	71.0
44	Total Penta-Furans				0.8820	10.075			53.8		0.0331	63.0
45	Total Hexa-Furans				0.7515	10.075			520		0.231	64.0
46	Total Hepta-Furans				0.5241	10.075			1410		0.4011	141.0
47	Total HCB				0.2711	10.075			1150		1.805	115.0
48	PCB1											
49	PCB2											
50	PCB3											
51	PCB4											
52	PCB5											
53	PCB6											
54	PCB7											
55	PCB8											
56	PCB9											
57	PCB10											
58	PCB11											
59	PCB12											



#	Name	Resp	HA	sp	HRF	Intval	RT	RRT	Conc	Area	IS	Edm
33	13C-1,2,3,4,5 Subst.DF	0.826	0.51	NO	1.0000	10.075	34.25	1.000	100	100	0.751	
39	Total Toluene-Dioxins				0.6303	10.075			14.8		0.0740	15.1
40	Total Penta-Dioxins				0.9001	10.075			20.6		0.150	21.1
41	Total Hexa-Dioxins				0.8922	10.075			125		0.731	126
42	Total Hepta-Dioxins				0.6334	10.075			801		1.03	802
43	Total Toluene-Furans				0.7510	10.075			719		0.197	720
44	1st Func. Penta-Furans				0.2921	10.075			53.0		0.0234	53.5
45	Total Penta-Furans				1.0021	10.075			671		0.494	673
46	Total Hexa-Furans				0.9241	10.075			1410		0.401	1412
47	Total Hepta-Furans				0.8728	10.075			1120		0.561	1122
48	PK1											
49	PK2											
50	PK3											
51	PK4											
52	PK5											
53	DF1											
54	DF2											
55	DF3											
56	DF4											
57	DF5											
58	DF6											



#	Name	Resp	RA	my	RRF	wt/wt	IT	RRT	Conn	%Rec	DL	EMPC
38	13C-1 2,3,4,6,9-tetraCP	5.82e5	0.51	NO	1.0000	10.078	34.37	1.000	190	100	0.751	
39	Total Tetra-Dioxins				0.8883	10.078			14.2		0.0740	16.0
40	Total Penta-Dioxins				0.9021	10.078			26.0		0.156	23.0
41	Total Hexa-Dioxins				0.8923	10.078			125		0.753	12.0
42	Total octa-Dioxins				0.9016	10.078			855		1.03	85.0
43	Total Tetra-Furans				0.7510	10.078			719		2.197	71.0
44	Total Penta-Furans				0.8027	10.078			53.0		0.0531	5.3
45	Total Hexa-Furans				0.8925	10.078			970		0.411	97.0
46	Total Hepta-Furans				0.9041	10.078			1410		0.491	141.0
47	Total Octa-Furans				0.8754	10.078			1130		0.903	113.0
48	DFK1											
49	DFK2											
50	DFK3											
51	DFK4											
52	DFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											

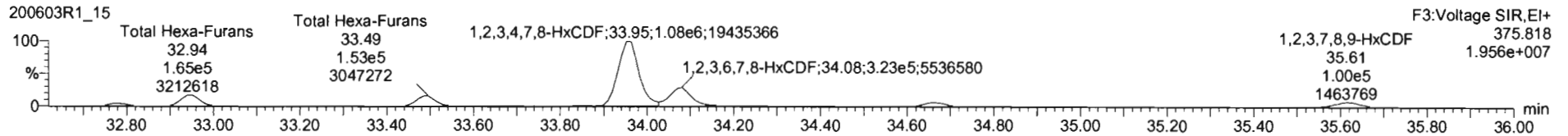
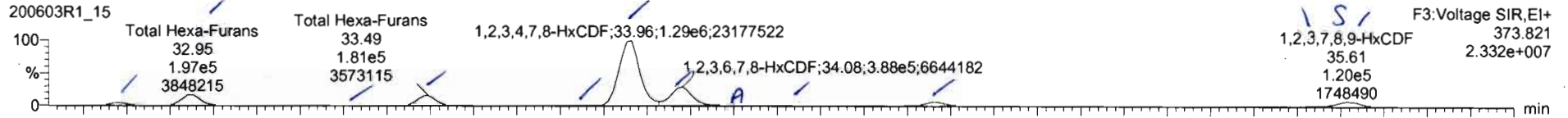


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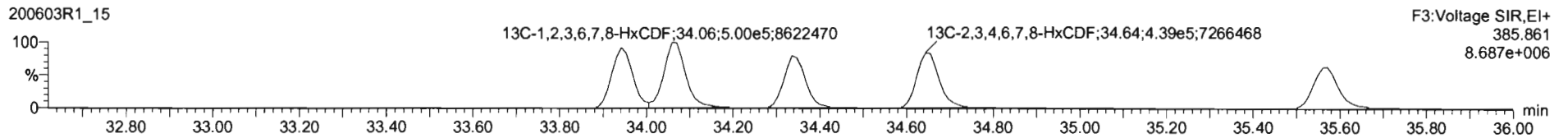
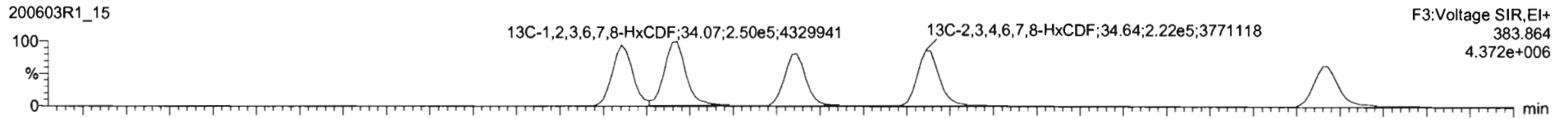
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Name: 200603R1_15, Date: 03-Jun-2020, Time: 18:57:34, ID: 2000965-11 PDI-163SC-A-01-02-200425 18.23, Description: PDI-163SC-A-01-02-200425

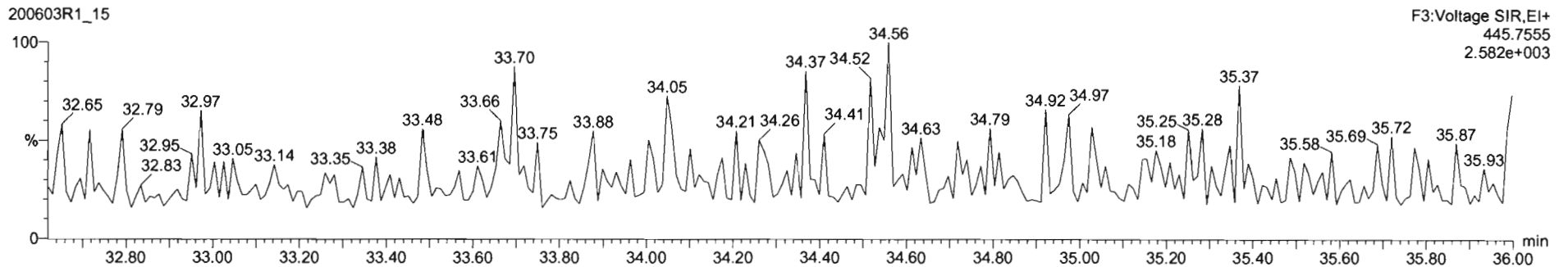
1,2,3,4,7,8-HxCDF



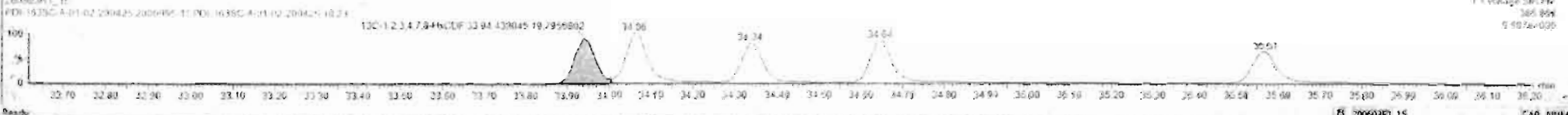
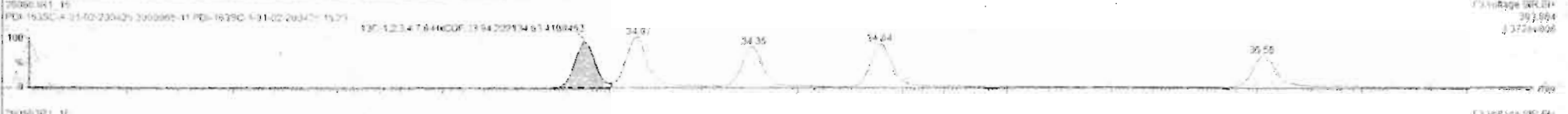
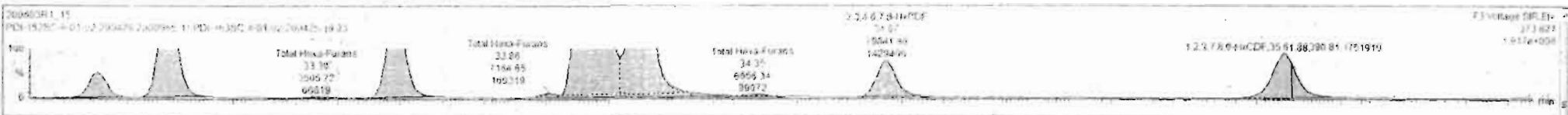
13C-1,2,3,4,7,8-HxCDF



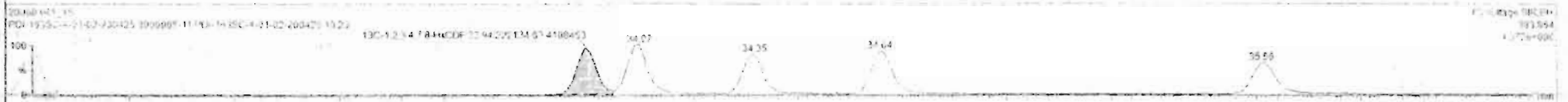
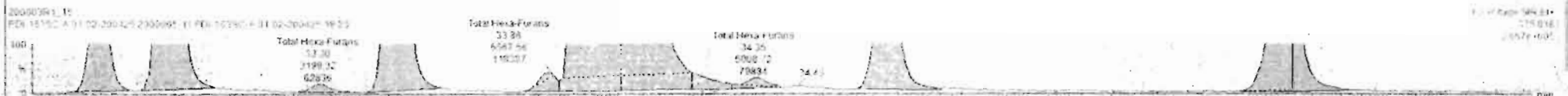
DPE3



ID	Name	Area	RA	WV	RRP	width	RT	RRT	Conc	Area	CL	ESR
33	13C-1,3,4,5,6,7,8,9,10,11	1.52e7	0.51	inc	1.0000	10.075	34.35	1.000	190	190	0.751	
37	Total Tetra-Chloro				0.8083	10.075			14.4		0.2743	15
40	Total Penta-Chloro				0.9051	10.075			20.0		0.150	23
41	Total Hexa-Chloro				0.9073	10.075			123		0.724	42
42	Total Hepta-Chloro				0.5045	10.075			850		1.05	81
43	Total Tetra-Furans				0.7145	10.075			719		0.197	71
44	1st Func. Furans				0.2501	10.075			53.0		0.0241	57
45	Total Penta-Furans				0.8625	10.075			270		0.411	97
46	Total Hexa-Furans				0.9041	10.075			1460		0.491	148
47	Total Hepta-Furans				0.5111	10.075			1130		0.863	110
48	DFK1											
49	DFK2											
50	DFK3											
51	DFK4											
52	DFK5											
53	DFE1											
54	DFE2											
55	DFE3											
56	DFE4											
57	DFE5											
58	DFE6											



PKT	Time	Ring	Seq	Obj	RFI	Signal	RT	RRT	Comp	SSRte	DR	Event
33	13C-1,2,3,4,7,8-HxCDF	8.824	841	10	1.8090	10.075	34.37	1.000	100	100	0.711	
34	Total Hexa-Chlorine				0.5081	10.075			11.3		0.0742	
39	Total Hepta-Chlorine				0.9021	10.075			20.6		0.156	
41	Total Hepta-Chlorine				0.6591	10.075			125		0.274	
42	Total Hepta-Chlorine				0.9635	10.075			85		1.03	
43	Total Total-Furans				0.7512	10.075			119		0.191	
44	Total Furan, Methyl-Furans				0.8025	10.075			53.3		0.0721	
45	Total Methyl-Furans				0.6526	10.075			9.70		0.451	
46	Total Hexa-Furans				0.5347	10.075			144.7		0.404	
47	Total Hepta-Furans				0.8734	10.075			11.90		0.801	
48	OP1											
49	OP2											
50	OP3											
51	OP4											
52	OP5											
53	OP6											



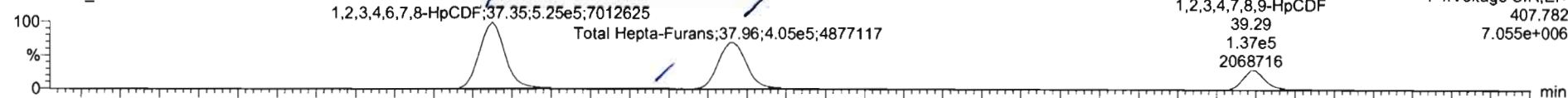
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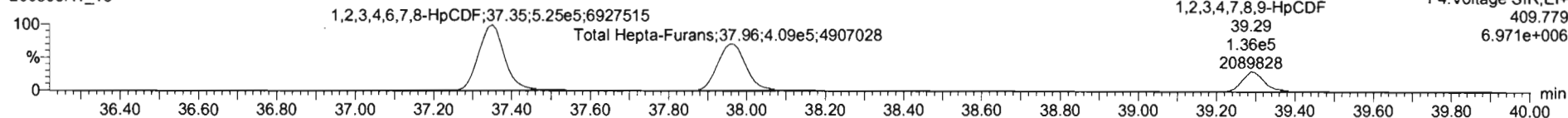
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1,2,3,4,6,7,8-HpCDF

200603R1_15

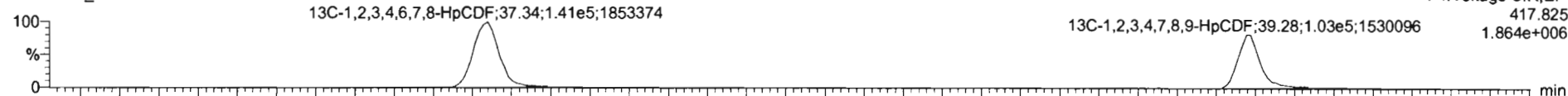


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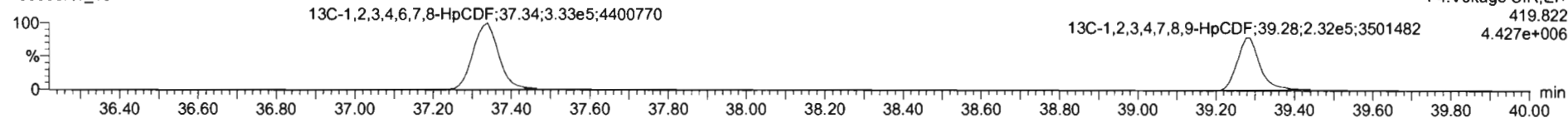


13C-1,2,3,4,6,7,8-HpCDF

200603R1_15

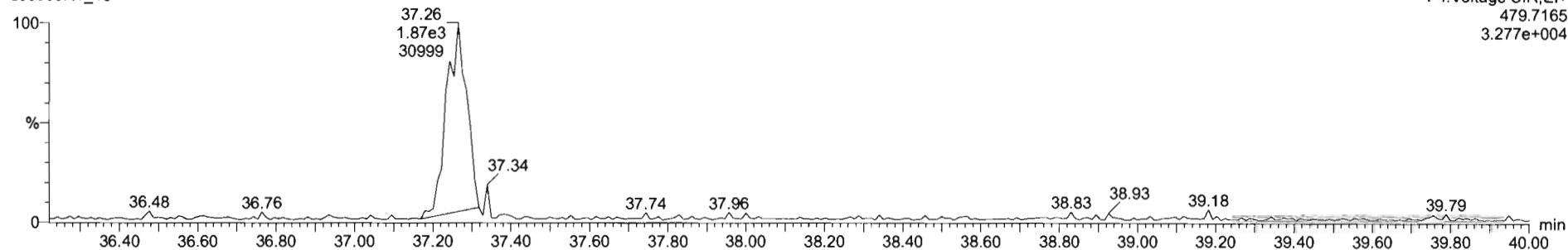


200603R1_15



DPE4

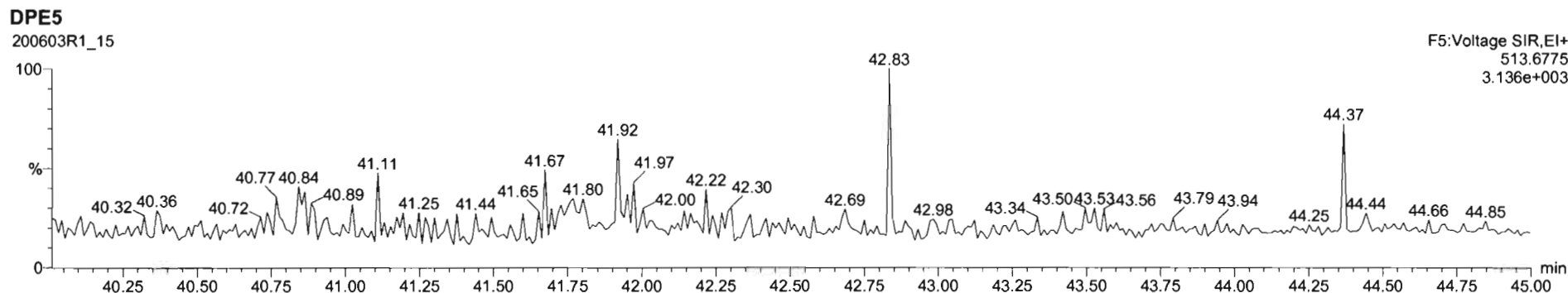
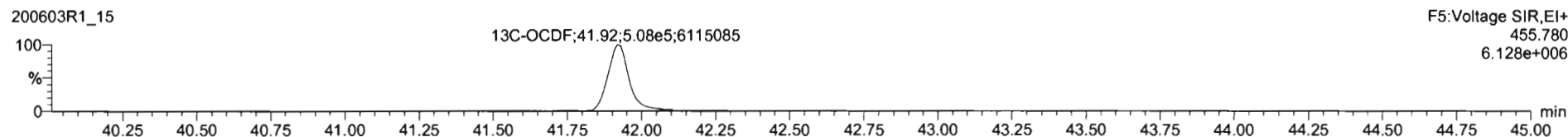
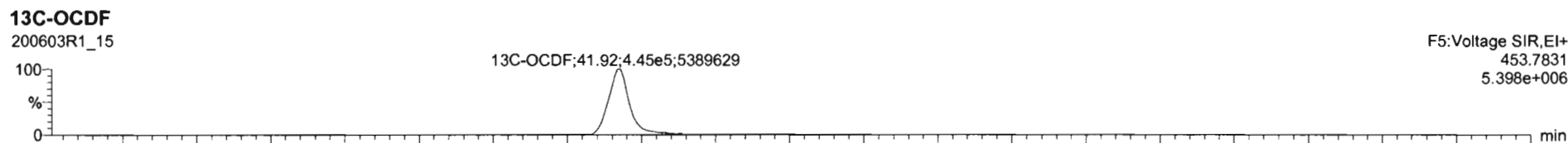
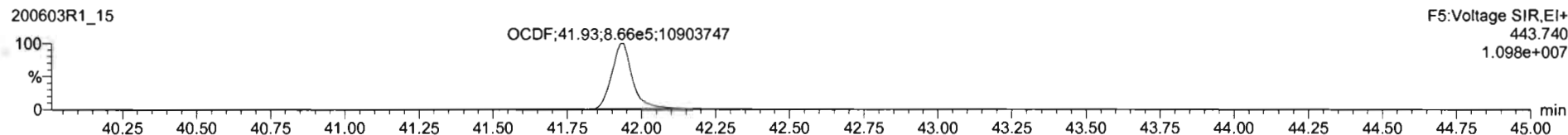
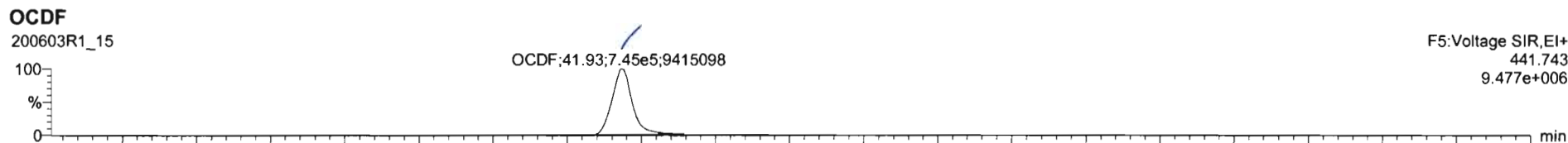
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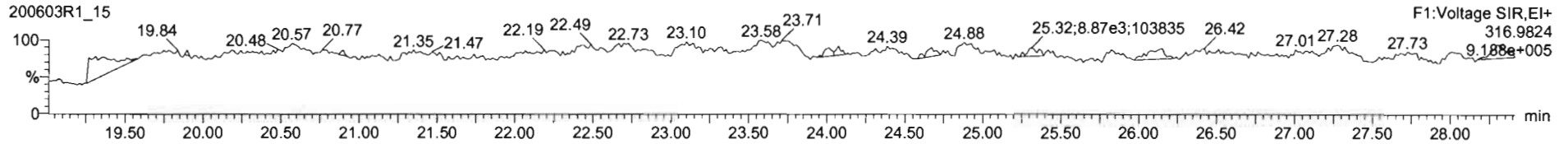
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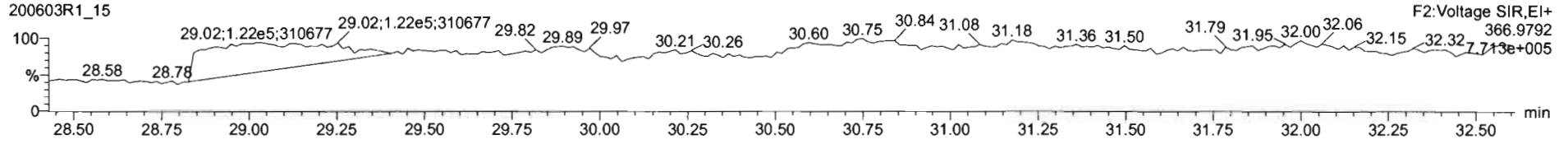
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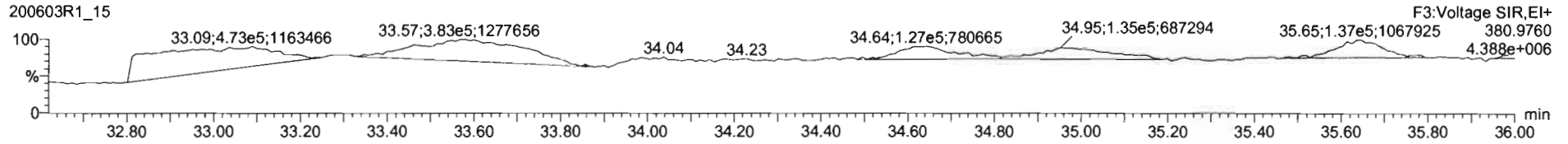
PFK1



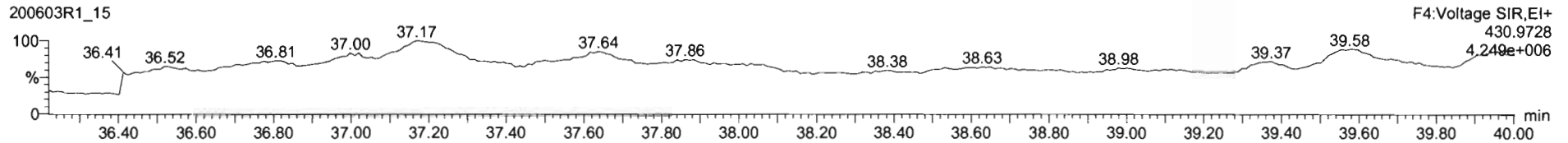
PFK2



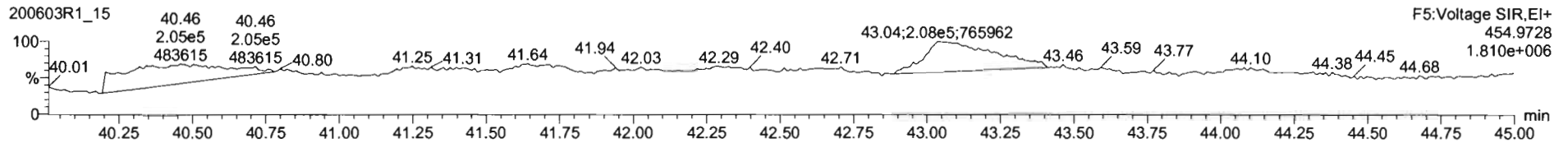
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R2\200603R2-4.qld

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GRB 06/04/2020

GT 06/05/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_4, Date: 03-Jun-2020, Time: 22:11:24, ID: 2000965-12 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	3.93e3	0.75	NO	0.888	10.003	26.516	26.51	1.001	1.001	0.98915		0.0621	0.989
2	2 1,2,3,7,8-PeCDD	2.63e3	0.67	NO	0.908	10.003	31.473	31.47	1.001	1.000	0.94648		0.145	0.946
3	3 1,2,3,4,7,8-HxCDD	1.70e3	1.36	NO	1.03	10.003	34.836	34.84	1.000	1.000	0.77495		0.257	0.775
4	4 1,2,3,6,7,8-HxCDD	9.33e3	1.20	NO	0.892	10.003	34.932	34.94	1.000	1.000	3.9490		0.272	3.95
5	5 1,2,3,7,8,9-HxCDD	2.93e3	1.32	NO	0.887	10.003	35.231	35.23	1.000	1.000	1.4411		0.329	1.44
6	6 1,2,3,4,6,7,8-HpCDD	1.41e5	1.03	NO	0.864	10.003	38.768	38.78	1.000	1.001	96.274		0.783	96.3
7	7 OCDD	1.77e6	0.87	NO	0.914	10.003	41.770	41.78	1.000	1.000	1223.1		0.977	1220
8	8 2,3,7,8-TCDF	3.62e5	0.74	NO	0.751	10.003	25.612	25.61	1.001	1.001	83.285	(58.5)	0.172	83.3
9	9 1,2,3,7,8-PeCDF	7.39e5	1.53	NO	0.893	10.003	30.190	30.18	1.001	1.000	175.25		0.281	175
10	10 2,3,4,7,8-PeCDF	2.06e5	3.81	YES	0.935	10.003	31.177	31.18	1.001	1.001	49.513		0.289	26.2
11	11 1,2,3,4,7,8-HxCDF	6.06e5	1.20	NO	0.884	10.003	33.952	33.96	1.000	1.000	245.81		0.492	246
12	12 1,2,3,6,7,8-HxCDF	2.10e5	1.19	NO	0.889	10.003	34.079	34.09	1.000	1.001	72.976		0.452	73.0
13	13 2,3,4,6,7,8-HxCDF	5.32e4	1.19	NO	0.934	10.003	34.690	34.68	1.001	1.001	19.516		0.479	19.5
14	14 1,2,3,7,8,9-HxCDF	6.77e4	1.18	NO	0.871	10.003	35.571	35.62	1.000	1.001	33.634		0.729	33.6
15	15 1,2,3,4,6,7,8-HpCDF	1.68e5	1.01	NO	0.873	10.003	37.387	37.36	1.001	1.000	103.48		0.552	103
16	16 1,2,3,4,7,8,9-HpCDF	4.56e4	1.02	NO	1.01	10.003	39.299	39.31	1.000	1.000	32.102		0.562	32.1
17	17 OCDF	2.46e5	0.86	NO	0.806	10.003	41.961	41.97	1.000	1.000	173.90		0.374	174
18	18 13C-2,3,7,8-TCDD	8.94e5	0.79	NO	1.16	10.003	26.507	26.48	1.026	1.026	208.89	104	0.235	
19	19 13C-1,2,3,7,8-PeCDD	6.12e5	0.62	NO	0.849	10.003	31.692	31.45	1.227	1.218	194.72	97.4	0.294	
20	20 13C-1,2,3,4,7,8-HxCDD	4.26e5	1.31	NO	0.779	10.003	34.830	34.83	1.014	1.014	200.38	100	0.664	
21	21 13C-1,2,3,6,7,8-HxCDD	5.29e5	1.28	NO	1.02	10.003	34.944	34.93	1.017	1.017	190.98	95.5	0.509	
22	22 13C-1,2,3,7,8,9-HxCDD	4.59e5	1.31	NO	0.903	10.003	35.215	35.22	1.025	1.025	186.53	93.3	0.573	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.38e5	1.04	NO	0.689	10.003	38.739	38.76	1.128	1.128	180.08	90.1	0.446	
24	24 13C-OCDD	6.34e5	0.90	NO	0.652	10.003	41.761	41.77	1.216	1.216	356.51	89.2	0.658	
25	25 13C-2,3,7,8-TCDF	1.16e6	0.76	NO	1.06	10.003	25.549	25.59	0.989	0.991	198.54	99.3	0.354	
26	26 13C-1,2,3,7,8-PeCDF	9.44e5	1.59	NO	0.838	10.003	30.076	30.17	1.165	1.168	204.59	102	0.601	
27	27 13C-2,3,4,7,8-PeCDF	8.90e5	1.60	NO	0.817	10.003	31.029	31.15	1.202	1.206	197.77	98.9	0.617	
28	28 13C-1,2,3,4,7,8-HxCDF	5.57e5	0.50	NO	1.01	10.003	33.961	33.95	0.989	0.989	202.80	101	0.772	
29	29 13C-1,2,3,6,7,8-HxCDF	6.46e5	0.51	NO	1.17	10.003	34.085	34.07	0.992	0.992	203.15	102	0.667	
30	30 13C-2,3,4,6,7,8-HxCDF	5.84e5	0.49	NO	1.02	10.003	34.659	34.65	1.009	1.009	209.48	105	0.761	
31	31 13C-1,2,3,7,8,9-HxCDF	4.62e5	0.50	NO	0.860	10.003	35.558	35.57	1.035	1.036	197.24	98.6	0.905	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.72e5	0.43	NO	0.774	10.003	37.307	37.35	1.086	1.087	176.26	88.2	0.519	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.80e5	0.42	NO	0.521	10.003	39.336	39.30	1.145	1.144	197.30	98.7	0.772	
34	34 13C-OCDF	7.02e5	0.89	NO	0.746	10.003	41.933	41.96	1.221	1.222	345.34	86.4	0.394	
35	35 37Cl-2,3,7,8-TCDD	3.11e5			1.04	10.003	26.538	26.51	1.028	1.027	81.013	101	0.110	
36	36 13C-1,2,3,4-TCDD	7.40e5	0.79	NO	1.00	10.003	25.890	25.83	1.000	1.000	199.95	100	0.272	
37	37 13C-1,2,3,4-TCDF	1.10e6	0.78	NO	1.00	10.003	24.360	24.15	1.000	1.000	199.95	100	0.375	
38	38 13C-1,2,3,4,6,9-HxCDF	5.45e5	0.50	NO	1.00	10.003	34.420	34.35	1.000	1.000	199.95	100	0.778	
39	39 Total Tetra-Dioxins				0.888	10.003	24.620		0.000		12.667		0.0621	12.7
40	40 Total Penta-Dioxins				0.908	10.003	29.960		0.000		10.529		0.145	11.8
41	41 Total Hexa-Dioxins				0.892	10.003	33.635		0.000		42.959		0.297	43.0
42	42 Total Hepta-Dioxins				0.864	10.003	37.640		0.000		245.10		0.783	245
43	43 Total Tetra-Furans				0.751	10.003	23.610		0.000		279.05		0.172	279
44	44 1st Func. Penta-Furans				0.893	10.003	27.580		0.000		37.209		0.0309	37.2
45	45 Total Penta-Furans				0.893	10.003	29.275		0.000		402.61		0.281	465
46	46 Total Hexa-Furans				0.934	10.003	33.555		0.000		488.91		0.503	489
47	47 Total Hepta-Furans				0.873	10.003	37.835		0.000		276.92		0.595	277

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Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.49	1.246e5	1.641e5	1.243e4	1.590e4	0.78	NO	2.833e4	7.1359	7.1359	0.0621
2	Total Tetra-Dioxins	22.92	1.933e4	2.094e4	1.730e3	2.324e3	0.74	NO	4.054e3	1.0211	1.0211	0.0621
3	Total Tetra-Dioxins	23.42	8.801e3	1.043e4	6.979e2	8.501e2	0.82	NO	1.548e3	0.38990	0.38990	0.0621
4	Total Tetra-Dioxins	24.33	6.229e3	9.636e3	5.142e2	6.815e2	0.75	NO	1.196e3	0.30114	0.30114	0.0621
5	Total Tetra-Dioxins	24.57	1.036e4	1.294e4	8.445e2	9.964e2	0.85	NO	1.841e3	0.46366	0.46366	0.0621
6	Total Tetra-Dioxins	24.81	1.408e4	1.827e4	1.129e3	1.535e3	0.74	NO	2.664e3	0.67099	0.67099	0.0621
7	Total Tetra-Dioxins	25.02	3.310e3	5.531e3	2.620e2	3.097e2	0.85	NO	5.717e2	0.14399	0.14399	0.0621
8	Total Tetra-Dioxins	25.29	3.772e3	4.262e3	3.024e2	3.555e2	0.85	NO	6.579e2	0.16570	0.16570	0.0621
9	Total Tetra-Dioxins	25.45	4.599e3	4.711e3	2.882e2	3.706e2	0.78	NO	6.588e2	0.16592	0.16592	0.0621
10	Total Tetra-Dioxins	25.84	4.287e3	4.932e3	3.257e2	3.925e2	0.83	NO	7.183e2	0.18090	0.18090	0.0621
11	Total Tetra-Dioxins	26.24	1.859e4	2.625e4	1.327e3	1.901e3	0.70	NO	3.228e3	0.81302	0.81302	0.0621
12	2,3,7,8-TCDD	26.51	2.657e4	2.887e4	1.687e3	2.240e3	0.75	NO	3.927e3	0.98915	0.98915	0.0621
13	Total Tetra-Dioxins	26.83	6.232e3	8.509e3	3.619e2	5.355e2	0.68	NO	8.974e2	0.22602	0.22602	0.0621

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.25	5.269e4	8.416e4	3.843e3	5.831e3	0.66	NO	9.674e3	3.4827	3.4827	0.145
2	Total Penta-Dioxins	29.71	1.598e4	2.685e4	8.490e2	1.504e3	0.56	NO	2.353e3	0.84691	0.84691	0.145
3	Total Penta-Dioxins	30.23	5.050e4	8.156e4	2.996e3	4.777e3	0.63	NO	7.773e3	2.7984	2.7984	0.145
4	Total Penta-Dioxins	30.38	1.642e4	2.492e4	8.081e2	1.464e3	0.55	NO	2.272e3	0.81796	0.81796	0.145
5	Total Penta-Dioxins	30.49	1.212e4	1.748e4	7.730e2	1.107e3	0.70	NO	1.880e3	0.67685	0.67685	0.145
6	Total Penta-Dioxins	30.69	1.805e4	2.840e4	8.509e2	1.246e3	0.68	NO	0.000e0	0.00000	0.75471	0.145
7	Total Penta-Dioxins	30.72	1.471e4	1.940e4	5.738e2	8.134e2	0.71	NO	0.000e0	0.00000	0.49938	0.145
8	Total Penta-Dioxins	31.02	6.812e3	8.290e3	3.249e2	4.722e2	0.69	NO	7.972e2	0.28697	0.28697	0.145
9	1,2,3,7,8-PeCDD	31.47	2.490e4	3.067e4	1.050e3	1.579e3	0.67	NO	2.629e3	0.94648	0.94648	0.145
10	Total Penta-Dioxins	31.53	6.461e3	1.076e4	3.994e2	6.139e2	0.65	NO	1.013e3	0.36480	0.36480	0.145
11	Total Penta-Dioxins	31.85	5.030e3	7.887e3	3.090e2	5.453e2	0.57	NO	8.542e2	0.30752	0.30752	0.145

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	4.002e5	3.136e5	1.972e4	1.601e4	1.23	NO	3.573e4	16.989	16.989	0.297
2	Total Hexa-Dioxins	33.90	4.438e4	3.791e4	2.340e3	1.918e3	1.22	NO	4.258e3	2.0246	2.0246	0.297
3	Total Hexa-Dioxins	34.15	2.836e5	2.252e5	1.817e4	1.548e4	1.17	NO	3.364e4	15.997	15.997	0.297
4	Total Hexa-Dioxins	34.26	2.590e4	2.048e4	1.483e3	1.208e3	1.23	NO	2.690e3	1.2792	1.2792	0.297
5	1,2,3,4,7,8-HxCDD	34.84	2.029e4	1.375e4	9.828e2	7.215e2	1.36	NO	1.704e3	0.77495	0.77495	0.257
6	1,2,3,6,7,8-HxCDD	34.94	8.065e4	7.152e4	5.089e3	4.240e3	1.20	NO	9.328e3	3.9490	3.9490	0.272
7	Total Hexa-Dioxins	35.13	1.261e4	7.307e3	6.232e2	4.371e2	1.43	NO	1.060e3	0.50415	0.50415	0.297
8	1,2,3,7,8,9-HxCDD	35.23	2.742e4	2.136e4	1.671e3	1.263e3	1.32	NO	2.934e3	1.4411	1.4411	0.329

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.76	1.441e6	1.362e6	1.105e5	1.070e5	1.03	NO	2.176e5	148.83	148.83	0.783
2	1,2,3,4,6,7,8-HpCDD	38.78	9.767e5	9.844e5	7.134e4	6.939e4	1.03	NO	1.407e5	96.274	96.274	0.783

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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	20.33	2.341e4	3.119e4	1.823e3	2.627e3	0.69	NO	4.450e3	1.0230	1.0230	0.172
2	Total Tetra-Furans	20.87	3.706e4	5.168e4	3.420e3	4.737e3	0.72	NO	8.157e3	1.8751	1.8751	0.172
3	Total Tetra-Furans	21.49	1.974e5	2.791e5	1.721e4	2.310e4	0.75	NO	4.032e4	9.2677	9.2677	0.172
4	Total Tetra-Furans	21.98	3.002e4	4.496e4	1.583e3	2.175e3	0.73	NO	3.757e3	0.86370	0.86370	0.172
5	Total Tetra-Furans	22.05	9.274e4	1.324e5	1.069e4	1.491e4	0.72	NO	2.560e4	5.8853	5.8853	0.172
6	Total Tetra-Furans	22.37	8.351e4	1.251e5	4.304e3	5.980e3	0.72	NO	1.028e4	2.3641	2.3641	0.172
7	Total Tetra-Furans	22.47	4.916e5	6.768e5	4.963e4	6.607e4	0.75	NO	1.157e5	26.594	26.594	0.172
8	Total Tetra-Furans	22.97	2.108e5	2.812e5	2.064e4	2.748e4	0.75	NO	4.811e4	11.060	11.060	0.172
9	Total Tetra-Furans	23.10	1.428e4	2.001e4	1.121e3	1.487e3	0.75	NO	2.608e3	0.59949	0.59949	0.172
10	Total Tetra-Furans	23.30	6.751e4	9.862e4	6.688e3	8.805e3	0.76	NO	1.549e4	3.5613	3.5613	0.172
11	Total Tetra-Furans	23.76	1.765e4	1.945e4	1.267e3	1.819e3	0.70	NO	3.086e3	0.70936	0.70936	0.172
12	Total Tetra-Furans	23.89	1.667e4	1.798e4	1.182e3	1.440e3	0.82	NO	2.623e3	0.60285	0.60285	0.172
13	Total Tetra-Furans	24.06	1.324e5	1.797e5	9.134e3	1.218e4	0.75	NO	2.131e4	4.8988	4.8988	0.172
14	Total Tetra-Furans	24.15	2.900e5	3.847e5	2.810e4	3.723e4	0.75	NO	6.533e4	15.018	15.018	0.172
15	Total Tetra-Furans	24.67	1.867e6	2.556e6	1.502e5	2.039e5	0.74	NO	3.540e5	81.377	81.377	0.172
16	Total Tetra-Furans	24.79	2.145e4	2.956e4	1.127e3	1.530e3	0.74	NO	2.657e3	0.61083	0.61083	0.172
17	Total Tetra-Furans	24.97	7.578e4	9.759e4	6.300e3	8.067e3	0.78	NO	1.437e4	3.3026	3.3026	0.172
18	Total Tetra-Furans	25.17	1.409e4	1.839e4	1.713e3	2.081e3	0.82	NO	3.793e3	0.87197	0.87197	0.172
19	Total Tetra-Furans	25.39	2.446e4	3.605e4	1.308e3	1.882e3	0.70	NO	3.191e3	0.73345	0.73345	0.172
20	Total Tetra-Furans	25.51	3.147e5	4.221e5	2.151e4	2.924e4	0.74	NO	5.076e4	11.667	11.667	0.172
21	2,3,7,8-TCDF	25.61	2.131e6	2.851e6	1.539e5	2.084e5	0.74	NO	3.623e5	83.285	83.285	0.172
22	Total Tetra-Furans	25.98	7.643e4	1.084e5	5.507e3	7.827e3	0.70	NO	1.333e4	3.0652	3.0652	0.172
23	Total Tetra-Furans	26.23	2.876e4	3.083e4	1.901e3	2.195e3	0.87	NO	4.096e3	0.94153	0.94153	0.172
24	Total Tetra-Furans	27.16	8.039e3	1.323e4	5.546e2	7.745e2	0.72	NO	1.329e3	0.30551	0.30551	0.172
25	Total Tetra-Furans	27.34	1.099e4	1.498e4	7.198e2	8.829e2	0.82	NO	1.603e3	0.36841	0.36841	0.172
26	Total Tetra-Furans	27.61	2.318e5	2.938e5	1.610e4	1.956e4	0.82	NO	3.567e4	8.1987	8.1987	0.172

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	27.61	1.421e6	8.942e5	9.391e4	5.840e4	1.61	NO	1.523e5	37.209	37.209	0.0309

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.04	1.513e5	1.087e5	1.162e4	8.488e3	1.37	NO	2.011e4	4.9115	4.9115	0.281
2	Total Penta-Furans	29.19	5.084e6	3.391e6	3.176e5	2.092e5	1.52	NO	5.269e5	128.71	128.71	0.281
3	Total Penta-Furans	29.27	2.070e5	1.428e5	8.883e3	6.015e3	1.48	NO	1.490e4	3.6393	3.6393	0.281
4	Total Penta-Furans	29.77	2.819e5	1.796e5	1.703e4	1.119e4	1.52	NO	0.000e0	0.00000	6.8943	0.281
5	Total Penta-Furans	29.82	1.208e5	7.458e4	5.637e3	3.720e3	1.52	NO	0.000e0	0.00000	2.2858	0.281
6	Total Penta-Furans	30.00	9.256e5	5.558e5	4.709e4	2.975e4	1.58	NO	7.684e4	18.772	18.772	0.281
7	1,2,3,7,8-PeCDF	30.18	8.213e6	5.387e6	4.468e5	2.920e5	1.53	NO	7.388e5	175.25	175.25	0.281
8	Total Penta-Furans	30.26	2.566e5	1.624e5	8.866e3	5.231e3	1.70	NO	1.410e4	3.4436	3.4436	0.281
9	Total Penta-Furans	30.44	2.787e6	1.822e6	1.484e5	9.658e4	1.54	NO	2.449e5	59.837	59.837	0.281
10	Total Penta-Furans	30.95	1.272e5	9.036e4	6.401e3	4.051e3	1.58	NO	1.045e4	2.5533	2.5533	0.281
11	Total Penta-Furans	31.05	3.908e4	2.764e4	1.667e3	1.201e3	1.39	NO	2.868e3	0.70061	0.70061	0.281
12	2,3,4,7,8-PeCDF	31.18	3.279e6	1.584e6	1.631e5	4.281e4	3.81	YES	2.059e5	0.00000	26.247	0.269
13	Total Penta-Furans	31.19	2.525e6	2.077e6	6.819e4	1.049e5	0.65	YES	0.000e0	0.00000	27.406	0.281
14	Total Penta-Furans	32.09	2.327e5	1.360e5	1.189e4	7.750e3	1.53	NO	1.964e4	4.7985	4.7985	0.281

Vista Analytical Laboratory

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Printed: Thursday, June 04, 2020 11:27:05 Pacific Daylight Time

Name: 200603R2_4, Date: 03-Jun-2020, Time: 22:11:24, ID: 2000965-12 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	2.884e5	2.446e5	1.415e4	1.189e4	1.19	NO	2.603e4	9.9102	9.9102	0.503
2	Total Hexa-Furans	32.95	1.262e6	1.084e6	6.455e4	5.470e4	1.18	NO	1.192e5	45.398	45.398	0.503
3	Total Hexa-Furans	33.04	2.187e4	1.822e4	1.234e3	1.045e3	1.18	NO	2.279e3	0.86775	0.86775	0.503
4	Total Hexa-Furans	33.16	1.891e4	1.605e4	1.105e3	8.638e2	1.28	NO	1.969e3	0.74964	0.74964	0.503
5	Total Hexa-Furans	33.31	5.682e4	4.220e4	2.581e3	2.203e3	1.17	NO	4.784e3	1.8211	1.8211	0.503
6	Total Hexa-Furans	33.49	1.160e6	9.874e5	5.743e4	4.749e4	1.21	NO	1.049e5	39.942	39.942	0.503
7	Total Hexa-Furans	33.87	7.398e4	5.892e4	3.228e3	2.653e3	1.22	NO	5.881e3	2.2387	2.2387	0.503
8	1,2,3,4,7,8-HxCDF	33.96	6.100e6	5.099e6	3.306e5	2.751e5	1.20	NO	6.056e5	245.81	245.81	0.492
9	1,2,3,6,7,8-HxCDF	34.09	1.922e6	1.625e6	1.141e5	9.564e4	1.19	NO	2.097e5	72.976	72.976	0.452
10	Total Hexa-Furans	34.22	6.330e4	5.252e4	3.999e3	2.986e3	1.34	NO	6.985e3	2.6592	2.6592	0.503
11	Total Hexa-Furans	34.37	6.238e4	4.848e4	4.059e3	2.886e3	1.41	NO	6.945e3	2.6440	2.6440	0.503
12	Total Hexa-Furans	34.47	3.920e4	3.083e4	2.223e3	1.909e3	1.16	NO	4.133e3	1.5733	1.5733	0.503
13	2,3,4,6,7,8-HxCDF	34.68	4.919e5	4.174e5	2.894e4	2.427e4	1.19	NO	5.321e4	19.516	19.516	0.479
14	1,2,3,7,8,9-HxCDF	35.62	7.482e5	6.205e5	3.669e4	3.100e4	1.18	NO	6.769e4	33.634	33.634	0.729
15	Total Hexa-Furans	35.65	6.059e5	4.553e5	1.350e4	1.059e4	1.27	NO	2.409e4	9.1703	9.1703	0.503

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	37.36	1.145e6	1.132e6	8.460e4	8.361e4	1.01	NO	1.682e5	103.48	103.48	0.552
2	Total Hepta-Furans	37.75	8.750e4	9.238e4	6.700e3	6.767e3	0.99	NO	1.347e4	9.4518	9.4518	0.595
3	Total Hepta-Furans	37.98	1.219e6	1.208e6	9.400e4	9.392e4	1.00	NO	1.879e5	131.89	131.89	0.595
4	1,2,3,4,7,8,9-HpCDF	39.31	3.586e5	3.606e5	2.299e4	2.257e4	1.02	NO	4.557e4	32.102	32.102	0.562

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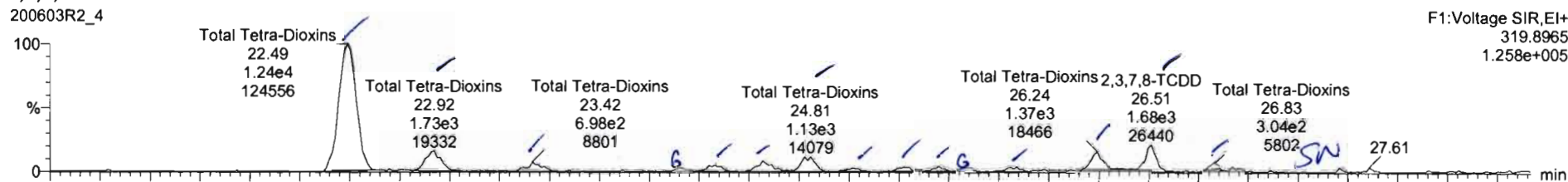
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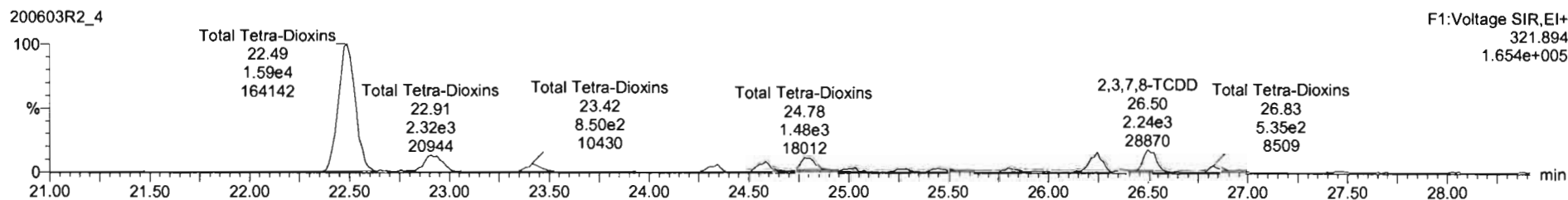
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2,3,7,8-TCDD

200603R2_4

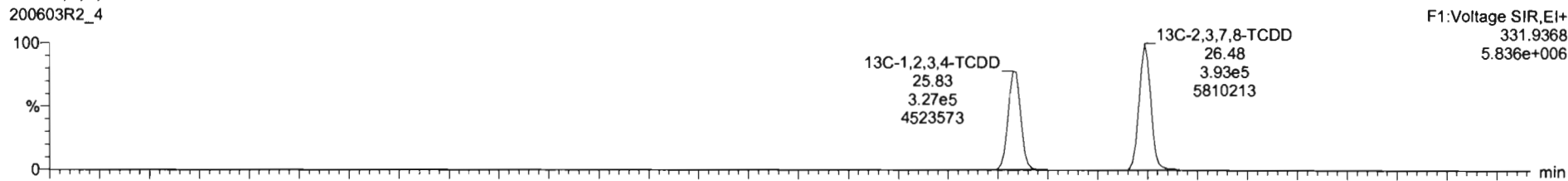


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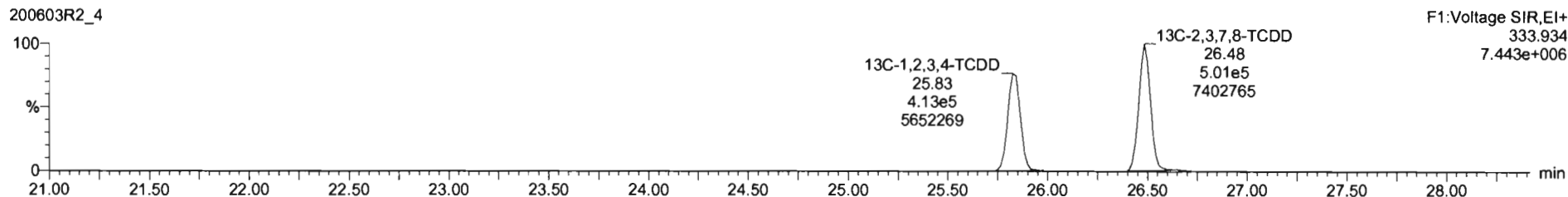


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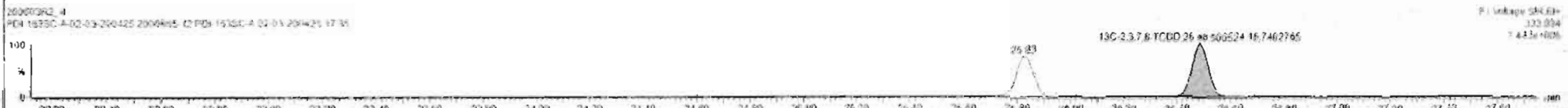
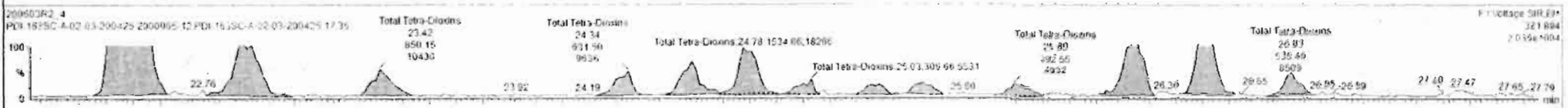
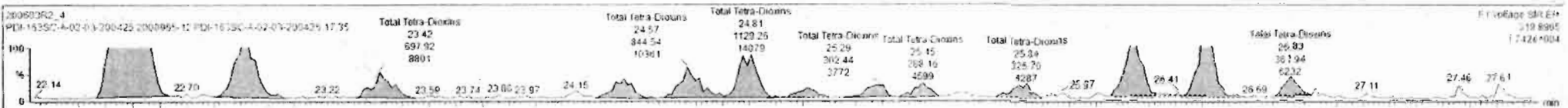


200603R2_4



RT	Name	Resp	RA	Adj	RRT	Integ	WT	RRT	Conc	IsRec	DL	EmpC
39	Total Tetra-Chlorins				0.0883	10.001			12.7		0.0021	42.7
40	Total Penta-Chlorins				0.0081	13.001			18.2		0.145	1.1

Name	RT	Int Resp	Ext Resp	RA	Adj	EmpC	Conc
Total Tetra-Chlorins	22.48	1.240e4	1.590e4	0.76	NO	7.1259	7.1259
Total Tetra-Chlorins	22.92	1.730e3	2.324e3	0.74	NO	1.0211	1.0211
Total Tetra-Chlorins	23.42	8.979e7	8.501e2	0.82	NO	0.38090	0.38090
Total Tetra-Chlorins	24.33	5.142e7	8.813e2	0.75	NO	0.20114	0.20114
Total Tetra-Chlorins	24.57	9.445e2	9.964e2	0.82	NO	0.48506	0.48506
Total Tetra-Chlorins	24.81	1.120e4	1.535e3	0.74	NO	0.67099	0.67099
Total Tetra-Chlorins	25.02	2.630e3	2.697e2	0.85	NO	0.14798	0.14798
Total Tetra-Chlorins	25.29	3.024e2	3.555e2	0.85	NO	0.16579	0.16579
Total Tetra-Chlorins	25.45	2.862e2	3.708e2	0.78	NO	0.10582	0.10582
Total Tetra-Chlorins	25.94	3.257e2	3.225e2	0.83	NO	0.19089	0.19089
Total Tetra-Chlorins	26.24	1.327e7	1.981e3	0.70	NO	0.81302	0.81302
2,3,7,8-TCDF	26.51	1.682e7	2.748e3	0.75	NO	0.58515	0.58515
Total Tetra-Chlorins	26.83	3.815e7	2.705e2	0.58	NO	0.23602	0.23602



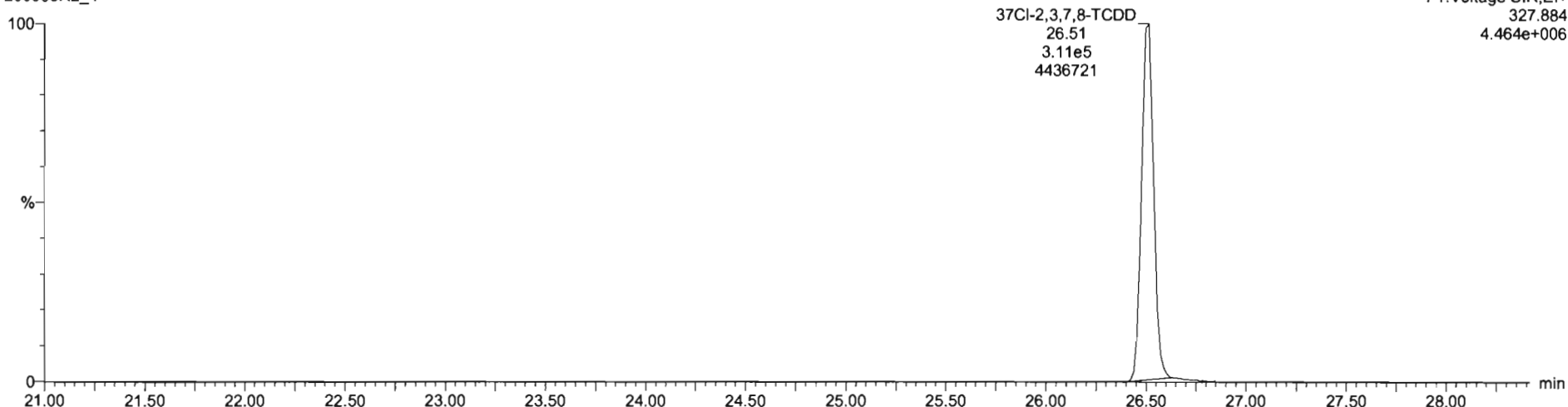
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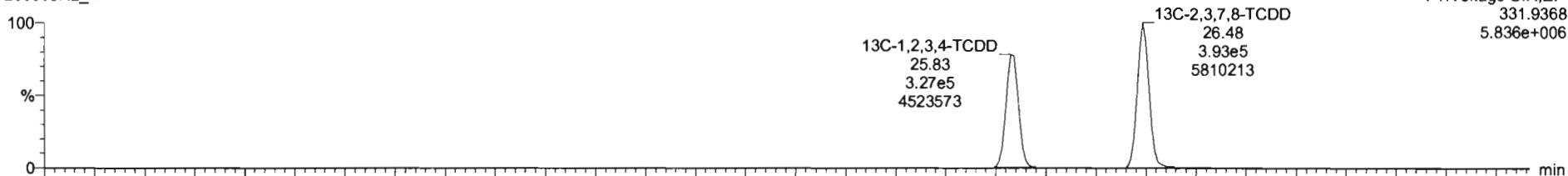
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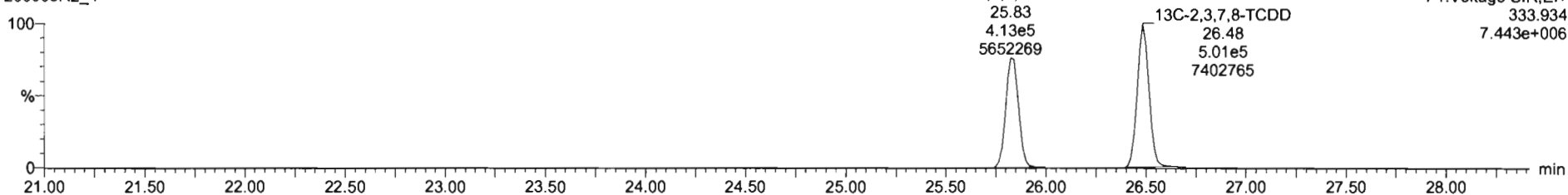


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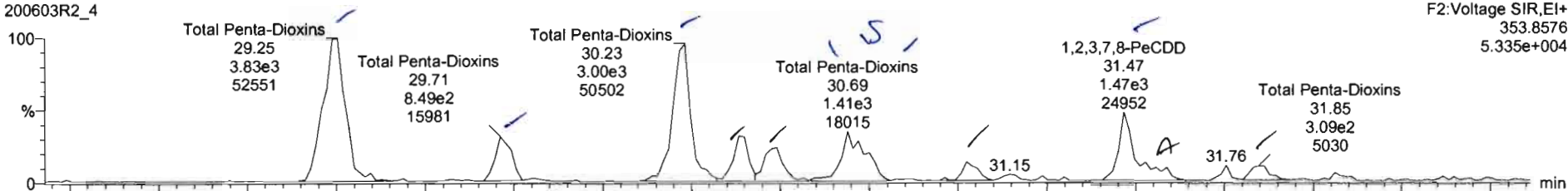
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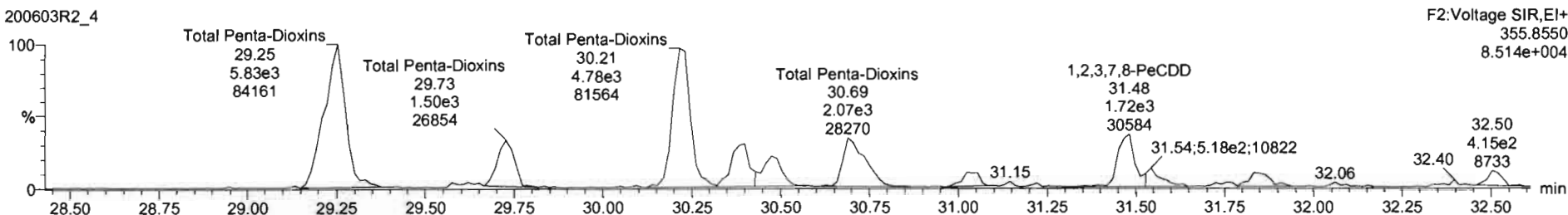
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1,2,3,7,8-PeCDD

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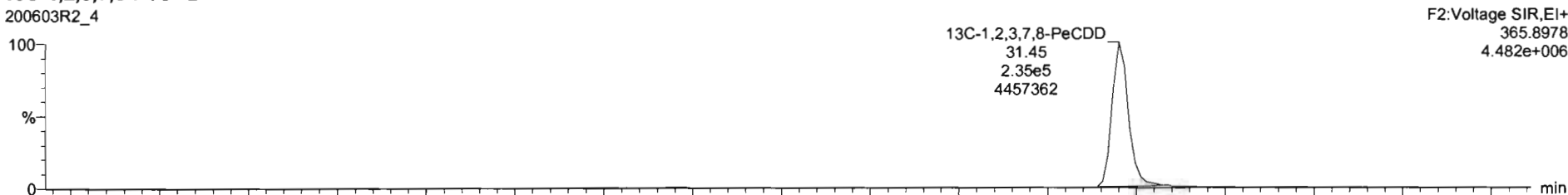


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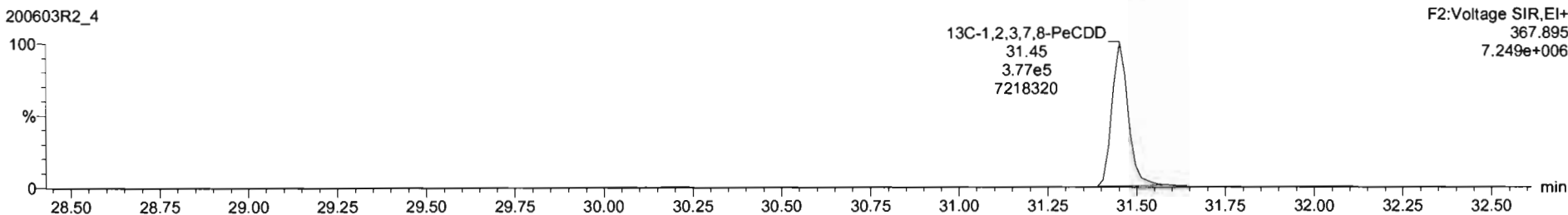


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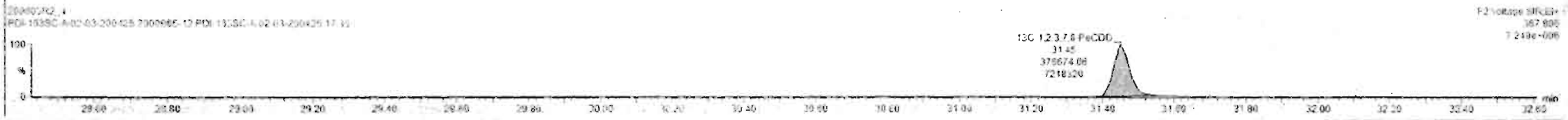
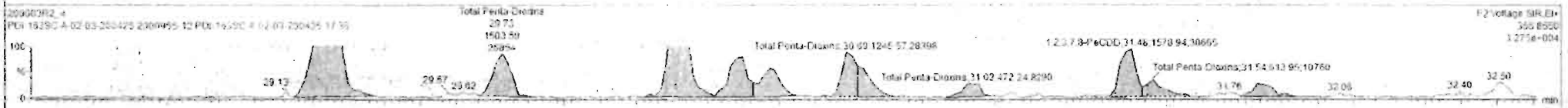
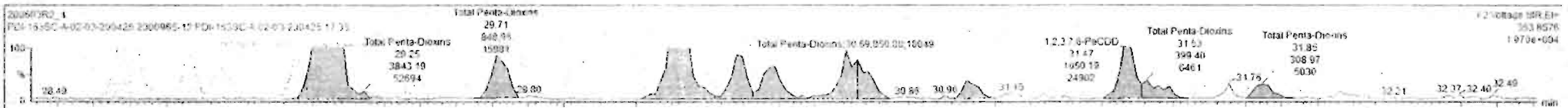
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Name	Desu	RA	RI	RII	wfnd	RI	RII	Conc	RII	RII	RII
39 Total Penta-Dioxins					0.6893	10.001		12.7		0.0621	12.7
40 Total Penta-Dioxins					0.6661	10.205		16.3		0.148	17.8

Name	RI	RII	RII	RII	RII	RII	RII	RII	RII	RII	RII
1 Total Penta-Dioxins	29.26	3.847e3	1.231e2	0.00	NO	1.4327	2.4627				
2 Total Penta-Dioxins	29.71	3.846e2	1.104e3	0.00	NO	0.5903	0.6463				
3 Total Penta-Dioxins	30.27	2.996e3	4.772e3	0.00	NO	2.7384	2.7384				
4 Total Penta-Dioxins	30.38	5.011e2	1.484e3	0.00	NO	0.8176	0.2176				
5 Total Penta-Dioxins	30.49	7.739e2	1.107e3	0.70	NO	0.6789	4.2700				
6 Total Penta-Dioxins	30.60	0.156e2	1.386e3	0.00	NO	0.7517	0.0000				
7 Total Penta-Dioxins	30.72	3.738e2	0.124e2	0.71	NO	0.4891	0.0000				
8 Total Penta-Dioxins	31.02	3.240e2	4.722e2	0.00	NO	0.2090	0.3907				
9 1,2,3,7,8-PeCDD	31.47	1.050e2	1.779e3	0.00	NO	0.0454	0.0448				
10 Total Penta-Dioxins	31.53	3.964e2	0.130e2	0.00	NO	0.3640	0.3640				
11 Total Penta-Dioxins	31.85	1.030e2	1.453e3	0.00	NO	0.3012	0.2071				



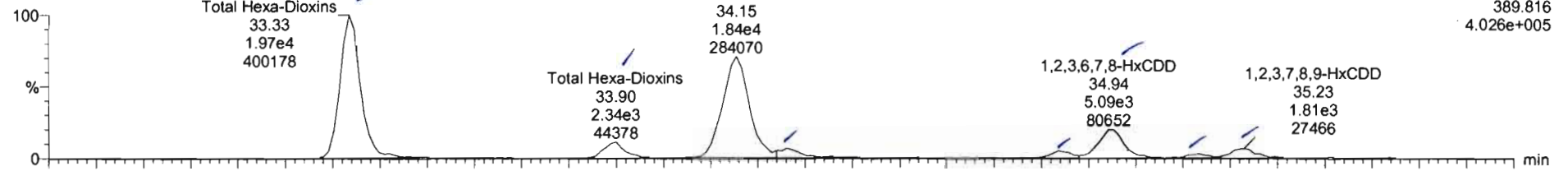
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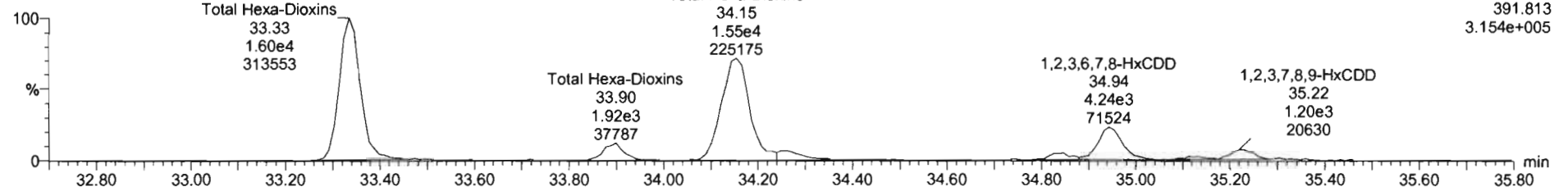
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1,2,3,4,7,8-HxCDD

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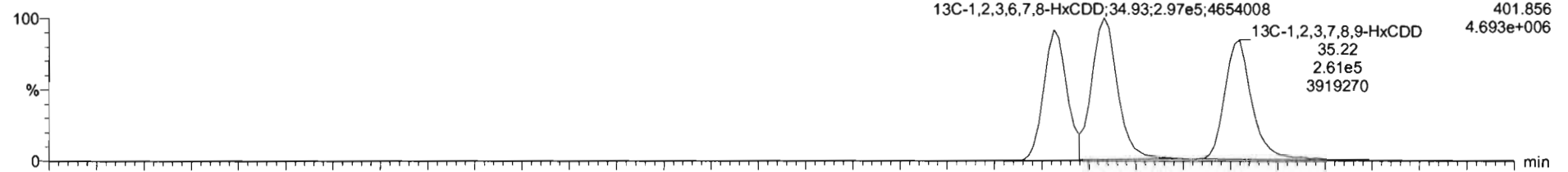


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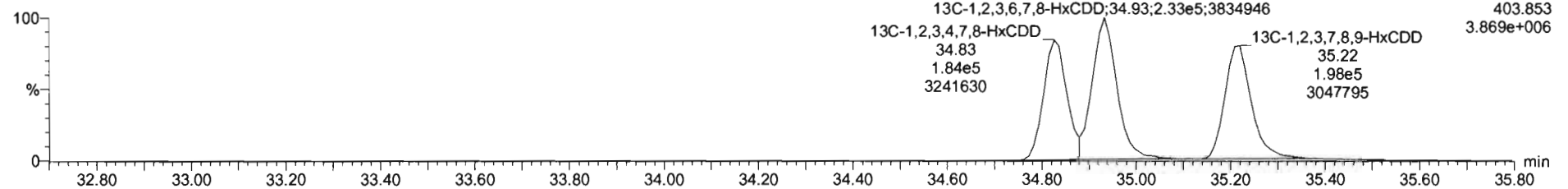


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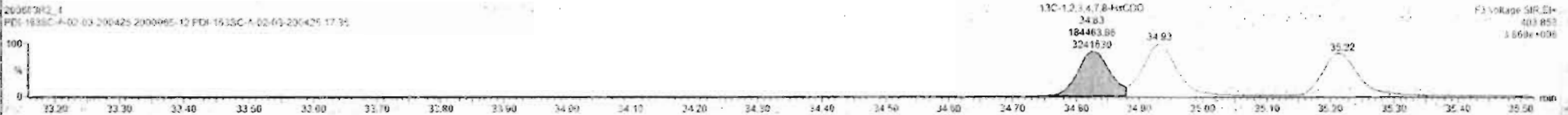
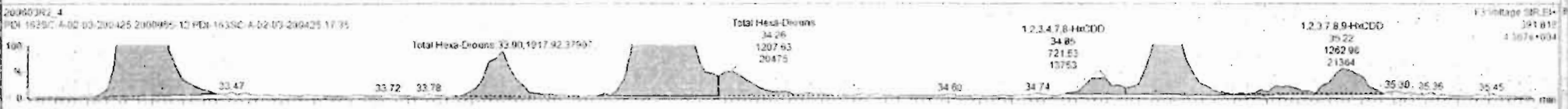
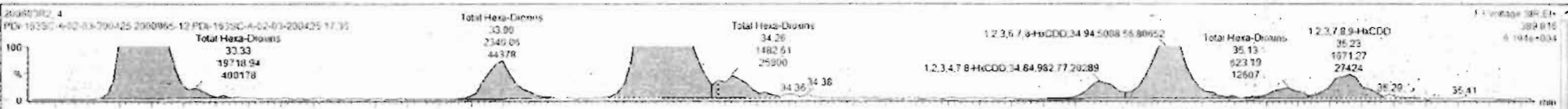


200603R2_4



#	Name	Resp	RA	WH	WRT	WVMT	RT	RRT	Conc	Wsec	DL	FW
25	Total Hexa-Dioxins				0.0063	10.003		12.7	0.0621		12.7	
26	Total Penta-Dioxins				0.0011	10.003		10.5	0.145		11.9	

#	Name	RT	Alt Resp	mD Resp	RA	WH	EMFL	Conc
1	Total Hexa-Dioxins	33.33	1.272e4	1.601e4	1.23	NO	16.508	16.988
2	Total Hexa-Dioxins	33.90	7.500e3	1.918e2	1.32	NO	2.0246	2.0298
3	Total Hexa-Dioxins	34.15	1.817e4	1.145e4	1.17	NO	15.997	15.997
4	Total Hexa-Dioxins	34.26	1.403e2	1.208e3	1.23	NO	1.2792	1.2752
5	1,2,3,4,7,8-HxCDD	34.84	9.825e2	7.215e2	1.38	NO	0.71492	0.71492
6	1,2,3,4,7,8-HxCDD	34.94	5.029e3	4.208e3	1.20	NO	3.9400	2.9490
7	Total Hexa-Dioxins	35.13	8.232e2	4.371e2	1.40	NO	0.80415	0.80415
8	1,2,3,7,8,9-HxCDD	35.23	1.671e3	1.263e3	1.32	NO	1.4411	1.4411



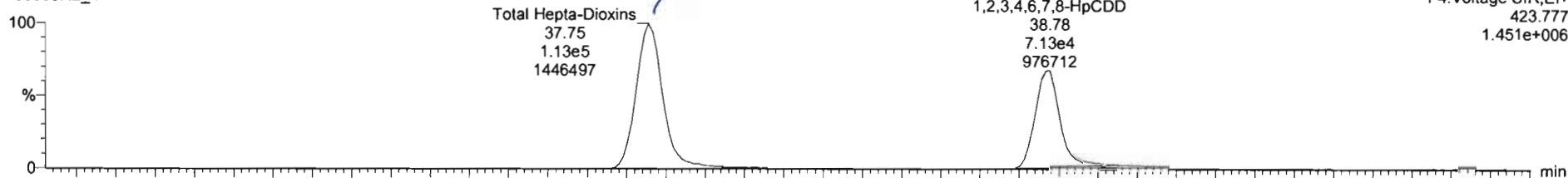
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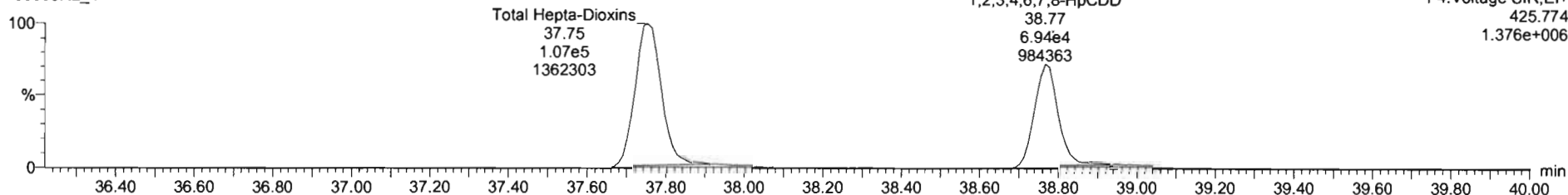
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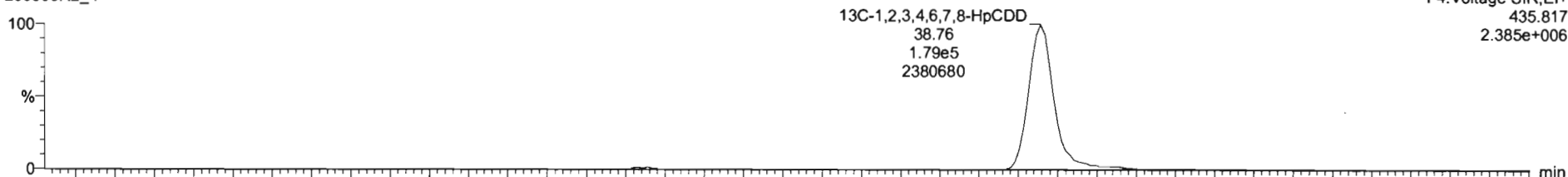


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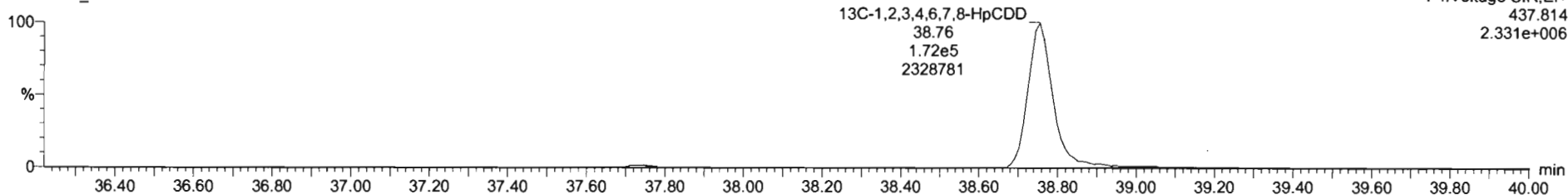


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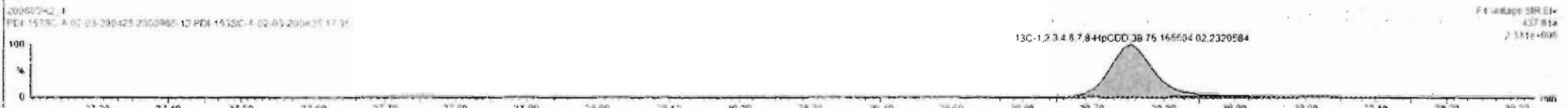


200603R2_4



Z	Name	Resp	RA	ivy	RHF	WVH	RT	RFT	Comp	%Ag	FL	200425
42	Total Hepta-Dioxins				0.0036	10.003			245		6.743	240
43	Total Tetra-Furans				0.7510	10.003			270		0.172	274

#	Name	RT	m1 Resp	m2 Resp	RA	ivy	EM% C	Comp
1	Total Hepta-Dioxins	37.75	1.105e2	1.070e2	1.03	NO	148.53	148.53
2	1,2,3,4,7,8-HpCDD	38.78	7.174e4	6.930e4	1.03	NO	148.274	148.274



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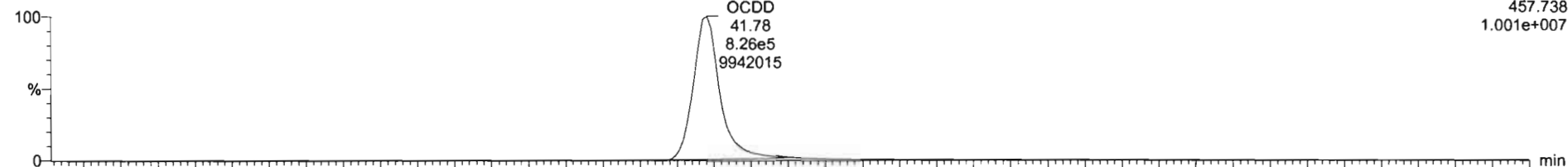
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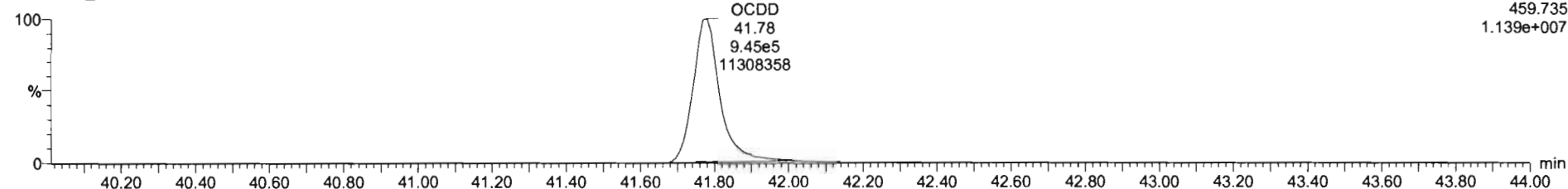
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OCDD

200603R2_4

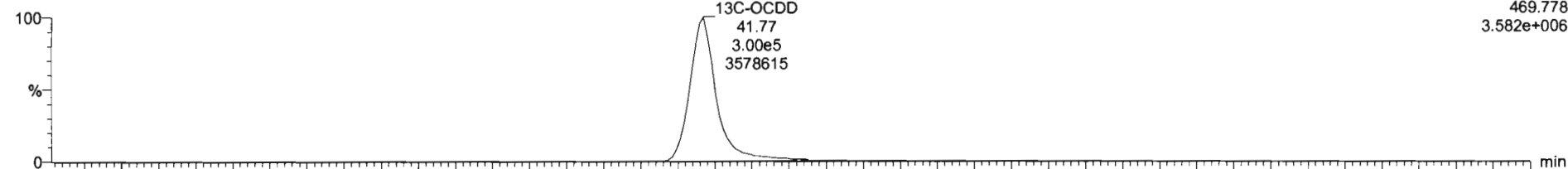


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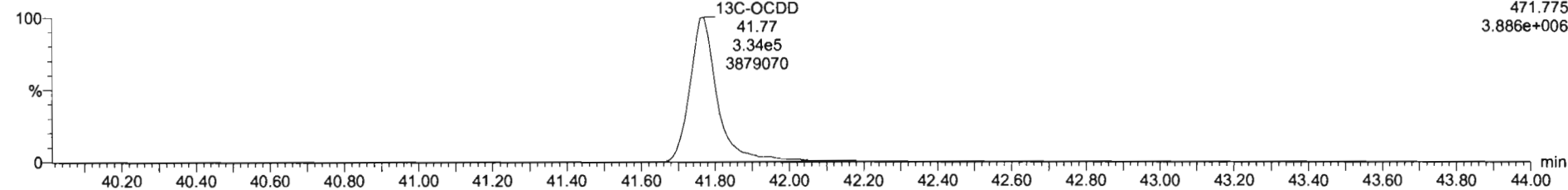


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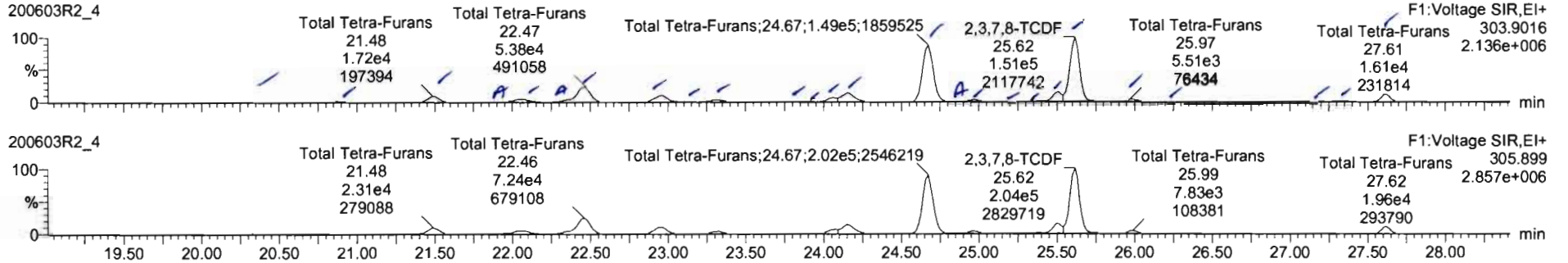
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Name: 200603R2_4, Date: 03-Jun-2020, Time: 22:11:24, ID: 2000965-12 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

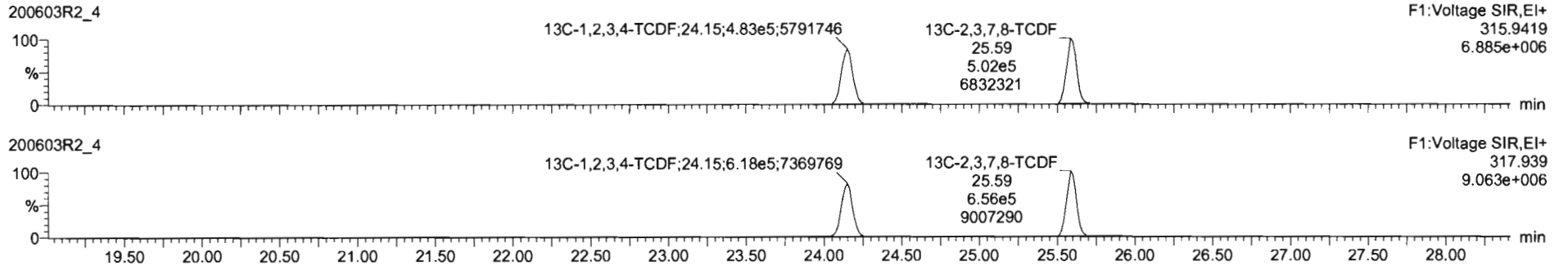
2,3,7,8-TCDF

200603R2_4



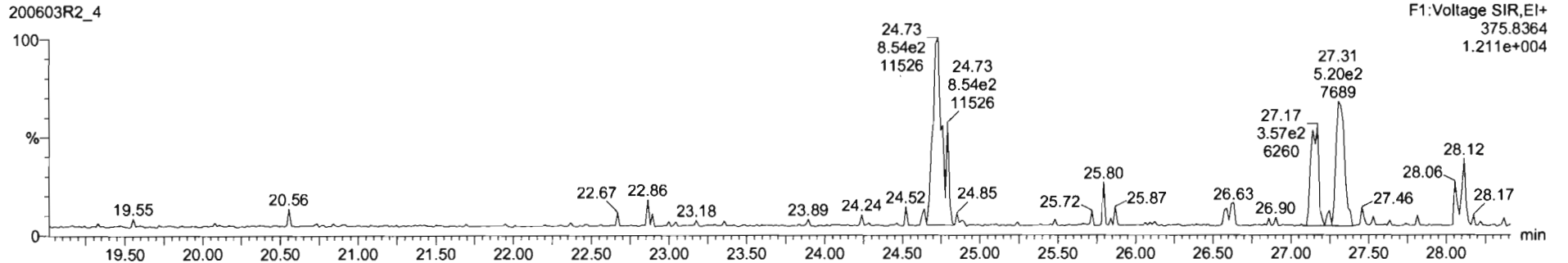
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200603R2_4



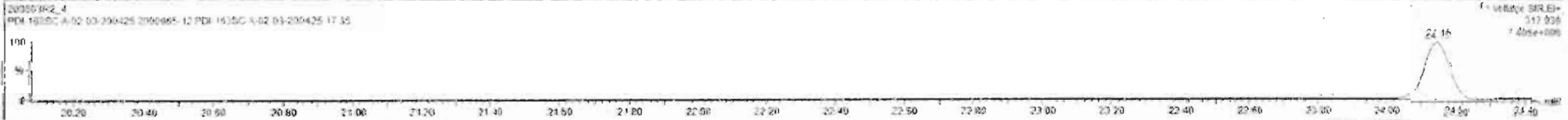
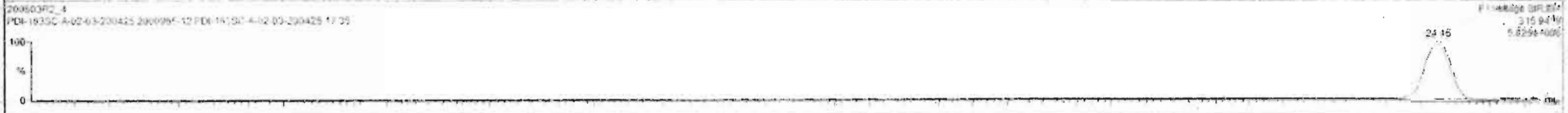
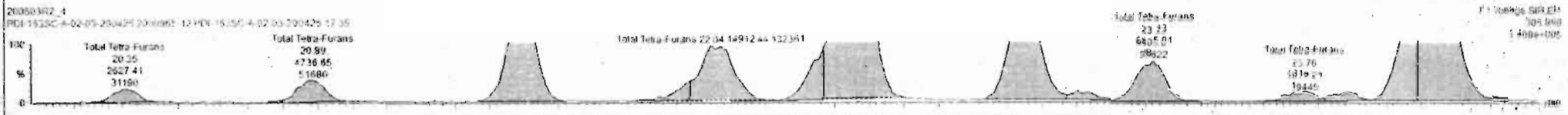
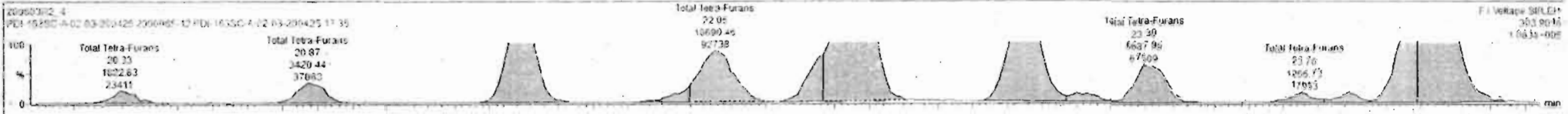
DPE1

200603R2_4



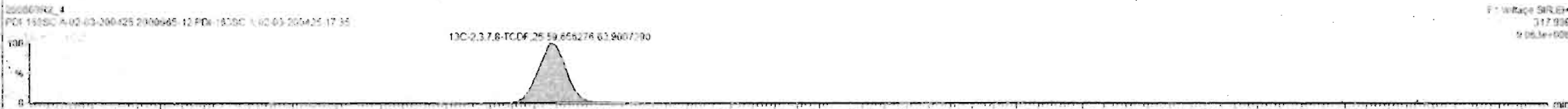
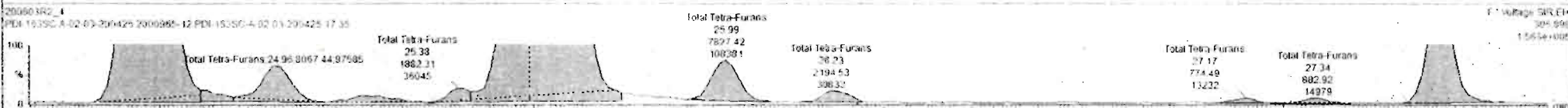
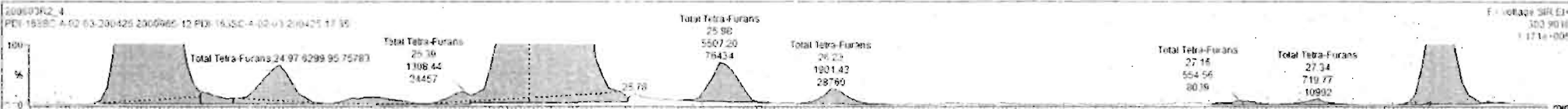
Peak	Label	Resp	RA	by	RRY	valued	SI	RRY	Cont	%Rec	SR	EMPC
42	Total Tetra-Furans					0.8576	10.603		345		0.783	247
42	Total Tetra-Furans					0.7510	10.603		273		5.172	274

Peak	Label	RT	wt Resp	m2 Resp	RA	by	EMPC	Cont
1	Total Tetra-Furans	20.33	1.822e3	2.627e3	0.69	NO	1.0255	1.0250
2	Total Tetra-Furans	20.67	2.470e2	4.737e3	0.72	NO	1.6731	5.8751
3	Total Tetra-Furans	21.49	1.721e4	2.310e4	0.75	NO	0.2677	5.2577
4	Total Tetra-Furans	21.86	1.562e3	7.175e3	0.73	NO	0.80370	0.36370
5	Total Tetra-Furans	22.06	1.568e4	1.491e4	0.72	NO	5.8253	5.8853
6	Total Tetra-Furans	22.37	4.304e3	5.980e2	0.72	NO	2.3643	2.3643
7	Total Tetra-Furans	22.47	4.902e4	0.607e4	0.75	NO	26.090	25.550
8	Total Tetra-Furans	22.97	2.064e4	2.748e4	0.75	NO	11.602	17.085
9	Total Tetra-Furans	23.10	1.121e3	1.467e3	0.75	NO	0.0949	2.5899
10	Total Tetra-Furans	23.30	8.676e3	8.065e3	0.76	NO	3.5413	2.5812
11	Total Tetra-Furans	23.76	1.267e2	1.819e3	0.78	NO	0.70706	0.30936
12	Total Tetra-Furans	23.89	1.102e2	1.440e3	0.80	NO	0.60202	0.60202
13	Total Tetra-Furans	24.08	5.135e3	1.715e4	0.75	NO	4.0885	4.0952
14	Total Tetra-Furans	24.15	5.510e4	3.725e4	0.75	NO	15.018	15.018



Name	Heap	RA	RY	RF	ADP	DT	RR	Conc	%Rec	DL	EMF
42 Total Tetra-Furans				0.955	10.003				247	0.733	247
43 Total Tetra-Furans				0.733	10.003				279	0.174	279

Name	DT	rd Heap	rd Heap	RA	RY	ENPC	Conc
13 Total Tetra-Furans	24.00	8.12e7	1.215e4	0.73	NO	4.2958	4.9988
14 Total Tetra-Furans	24.15	2.810e7	3.721e4	0.75	NO	15.015	15.818
15 Total Tetra-Furans	24.67	1.502e5	2.039e5	0.74	NO	81.377	81.377
16 Total Tetra-Furans	24.79	1.197e3	1.539e3	0.74	NO	0.81063	0.81063
17 Total Tetra-Furans	24.87	8.300e2	3.067e3	0.78	NO	3.3026	3.3026
18 Total Tetra-Furans	25.17	1.713e2	2.081e2	0.62	NO	0.87197	0.87197
19 Total Tetra-Furans	25.39	1.308e2	1.682e3	0.70	NO	0.71045	0.73145
20 Total Tetra-Furans	25.51	2.151e3	2.824e4	0.74	NO	11.687	11.667
21 2,3,7,8-TCDF	25.62	1.539e5	2.084e5	0.74	NO	83.788	83.268
22 Total Tetra-Furans	25.98	5.587e3	7.827e3	0.70	NO	3.0652	3.6952
23 Total Tetra-Furans	26.23	1.091e3	2.194e3	0.67	NO	0.94123	0.94153
24 Total Tetra-Furans	27.16	5.466e2	7.749e2	0.72	NO	0.39551	0.39551
25 Total Tetra-Furans	27.26	7.198e2	8.829e2	0.62	NO	0.26641	0.26641
40 Total Tetra-Furans	27.81	1.010e4	1.956e4	0.52	NO	8.1967	8.1967



Dataset: Untitled

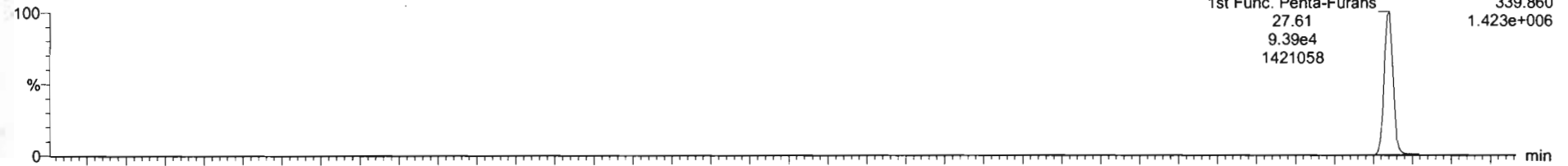
Last Altered: Thursday, June 04, 2020 07:35:03 Pacific Daylight Time

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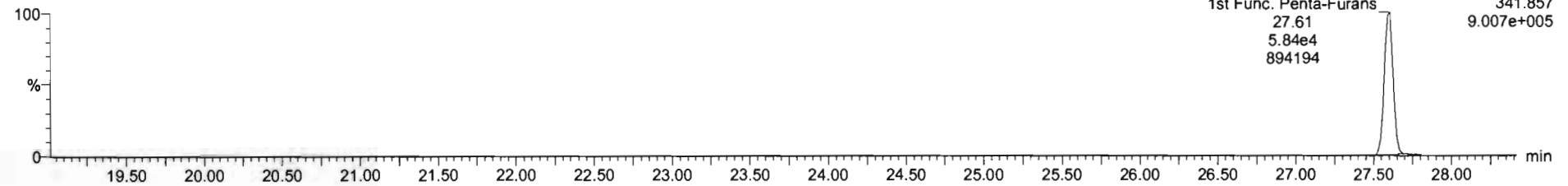
Name: 200603R2_4, Date: 03-Jun-2020, Time: 22:11:24, ID: 2000965-12 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

1st Func. Penta-Furans

200603R2_4

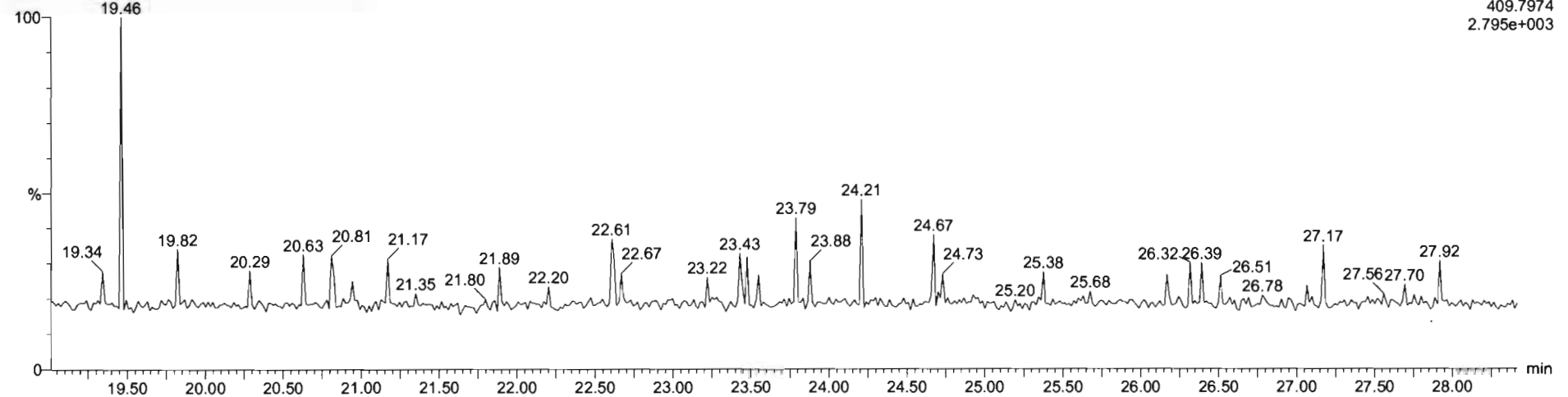


200603R2_4



DPE6

200603R2_4



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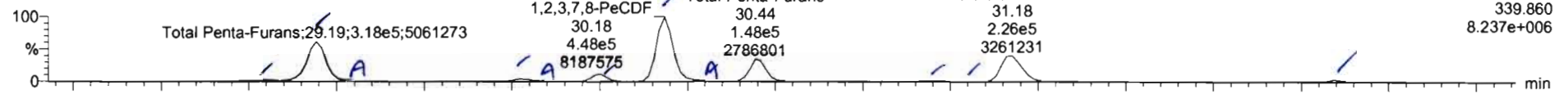
Last Altered: Thursday, June 04, 2020 07:35:03 Pacific Daylight Time

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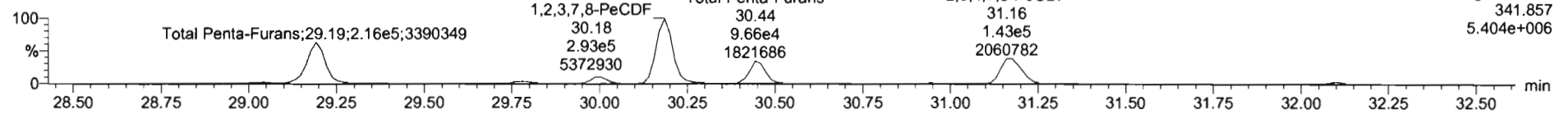
Name: 200603R2_4, Date: 03-Jun-2020, Time: 22:11:24, ID: 2000965-12 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

1,2,3,7,8-PeCDF

200603R2_4

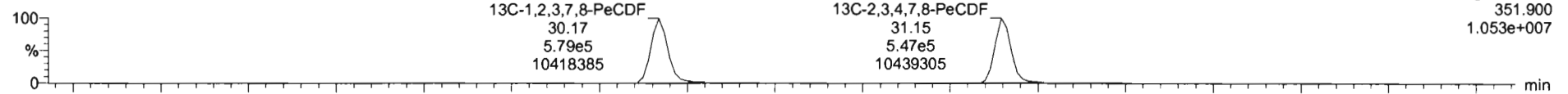


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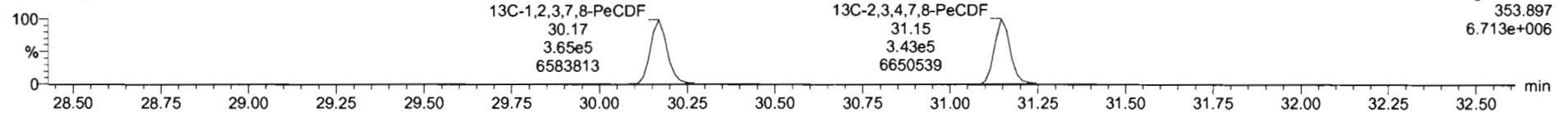


13C-1,2,3,7,8-PeCDF

200603R2_4

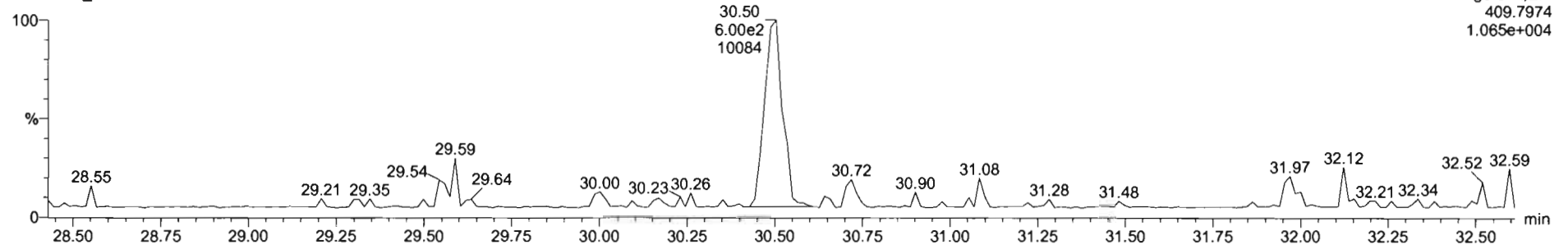


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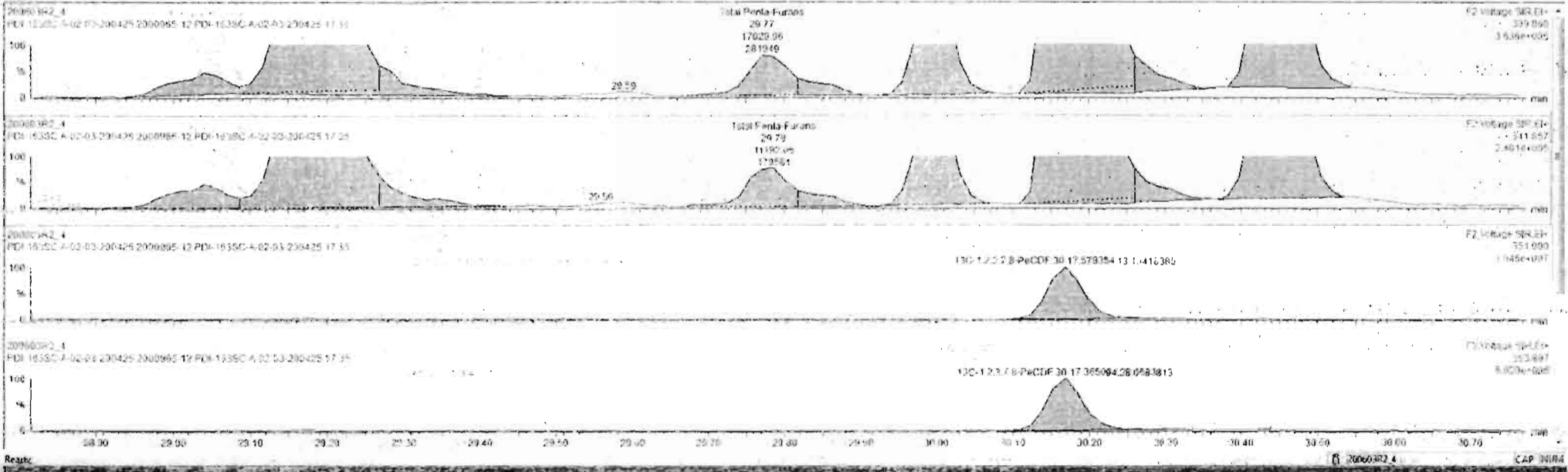
DPE2

200603R2_4





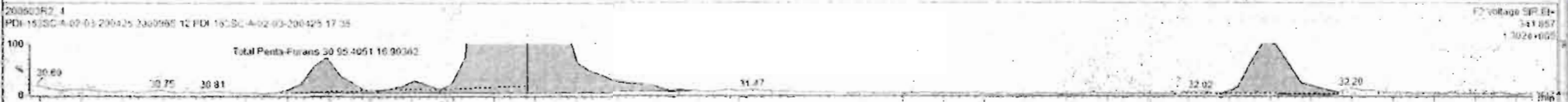
No.	Name	Area	RA	By	RNI	Wt	MSY	Conc	Area	DL	100%
28	15C-1.2.3.4.7.8-HexCDF	1.57e5	0.50	NO	1.8925	10.003	23.95	0.520	203	101	0.773
29	15C-1.2.3.4.7.8-HexCDF	6.48e5	0.51	NO	1.1692	10.003	34.67	2.962	203	102	0.507
30	15C-1.2.3.4.7.8-HexCDF	6.34e5	0.49	NO	1.0213	10.003	24.75	1.099	209	100	0.761
31	15C-1.2.3.4.7.8-HexCDF	4.89e5	0.55	NO	0.9536	10.003	27.87	1.076	197	104	0.960
32	15C-1.2.3.4.7.8-HexCDF	3.72e5	0.45	NO	0.7743	10.003	27.95	1.087	179	108	0.513
33	15C-1.2.3.4.7.8-HexCDF	2.96e5	0.42	NO	0.6210	10.003	28.40	1.144	191	107	0.722
34	15C-OCDF	7.02e5	0.59	NO	3.7427	10.003	41.96	1.222	245	104	0.504
35	15C-1.2.3.4.7.8-TCDF	3.11e5	0.53	NO	1.0968	10.003	28.41	1.077	210	101	0.110
36	15C-1.2.3.4.7.8-TCDF	7.45e5	0.70	NO	1.0090	10.003	25.83	1.006	200	100	0.272
37	15C-1.2.3.4.7.8-TCDF	1.19e5	0.78	NO	1.0566	10.003	24.13	1.000	200	100	0.102
38	15C-1.2.3.4.7.8-3-HexCDF	5.45e5	0.50	NO	1.0000	10.003	34.23	1.000	200	100	0.778
39	Total Penta-Furans				0.1083	10.003			12.7		0.053
40	Total Hexa-Furans				0.5641	10.003			10.5		0.146
41	Total Hepta-Furans				0.0025	10.003			3.0		0.297
42	Total Furans				0.6749	10.003			26.2		0.496
43	Total Toluene-Furans				0.7510	10.003			27.9		0.472
44	Total Penta-Furans				0.2025	10.003			17.1		0.050
45	Total Hexa-Furans				0.6529	10.003			19.1		0.264
46	Total Hepta-Furans				0.0044	10.003			0.71		0.003
47	Total Furans				0.8608	10.003			36.9		0.317



SL	Sample	Depth	QA	QY	QZ	QWQZ	QT	RLZ	Comp	WSP	TL	TRF
28	13C-12.3.4.7.8-PuCDF	1.57m	0.50	NO	1.0075	10.002	33.97	0.589	202	101	0.777	
29	13C-12.3.4.7.8-HxCDF	0.48m	0.51	NO	1.1810	10.002	34.27	0.592	202	102	0.687	
30	13C-2.3.4.6.7.8-HxCDF	0.24m	0.48	NO	1.9219	10.002	31.93	1.589	209	185	0.801	
31	13C-12.3.4.7.8-HxCDF	4.02m	0.50	NO	0.8895	10.002	35.12	1.036	197	95.4	0.962	
32	13C-12.3.4.7.8-PuCDF	1.72m	0.43	NO	0.2745	10.003	37.25	1.027	178	89.2	0.519	
33	13C-12.3.4.7.8-HxCDF	2.00m	0.42	NO	0.7210	10.003	35.30	1.144	197	90.7	0.373	
34	13C-OCDF	7.02m	0.39	NO	0.7447	10.002	41.56	1.252	84.1	94.4	0.384	
35	13C-2.3.4.7.8-TCDF	0.11m			1.8395	10.003	28.51	1.027	11.0	10.1	0.110	
36	13C-12.3.4-TCDF	7.45m	0.70	NO	1.8060	10.063	25.87	1.890	209	100	0.277	
37	13C-12.3.4-TCDF	1.19m	0.72	NO	1.9305	10.063	24.13	1.900	190	100	0.175	
38	13C-1.2.3.4.6.8-HxCDF	5.45m	0.58	NO	1.8040	10.002	34.25	1.090	200	147	0.779	
39	Total Tetra-Furans				0.8033	10.000			12.7		0.603	12.7
40	Total Penta-Furans				0.5011	10.000			10.5		0.346	10.5
41	Total Hexa-Dioxins				0.8922	10.003			23.0		0.287	23.0
42	Total Hepta-Dioxins				0.8759	10.000			24.0		0.283	24.0
43	Total Tetra-Furans				0.7510	10.001			27.1		0.172	27.1
44	Total Penta-Furans				0.8076	10.001			17.2		0.0309	17.2
45	Total Hexa-Furans				0.0244	10.001			4.4		0.231	4.4
46	Total Hepta-Furans				0.9241	10.101			47.1		0.203	47.1
47	Total Furans				0.8224	10.003			38.0		0.694	38.0



#	Name	Resp	SN	dy	RRF	amul	QT	RTT	Conc	%Rec	Ts	EMPC
28	13C-1,2,3,4,7,8-HxCDF	5.57e5	0.56	NO	1.0975	19.003	33.95	0.569	203	101	-0.722	
29	13C-1,2,3,6,7,8-HxCDF	6.46e5	0.51	NO	1.1070	19.003	34.07	0.597	203	192	0.667	
30	13C-2,3,4,6,7,8-HxCDF	5.54e5	0.49	NO	1.0219	19.003	34.55	1.029	209	192	0.754	
31	13C-1,2,3,7,8-HxCDF	4.02e5	0.56	NO	0.8591	19.003	35.57	1.036	197	99.5	0.995	
32	13C-1,2,3,4,6,7,8-HxCDF	3.72e5	0.43	NO	0.7741	19.003	35.35	1.087	170	99.2	0.519	
33	13C-1,2,3,4,7,8-HxCDF	2.89e5	0.42	NO	0.7341	19.003	34.30	1.144	197	99.7	0.772	
34	13C-OCDF	7.02e5	0.59	NO	0.7457	19.003	41.99	1.221	345	98.4	0.394	
35	2,3,7,8-TCDF	3.11e5			1.0303	19.003	28.51	1.027	11.0	191	0.110	
36	13C-1,2,3,4-TCDF	7.40e5	0.79	NO	1.0000	19.003	29.85	1.000	209	100	0.270	
37	13C-1,2,3,4-TCDF	1.10e5	0.78	NO	1.0000	19.003	24.11	1.000	200	100	0.375	
38	13C-1,2,3,4,6,8-HxCDF	5.45e5	0.50	NO	1.0000	19.003	34.35	1.000	200	100	0.779	
39	Total Tetra-Chlorox				0.8583	19.003			12.7		3.0021	12.7
40	Total Penta-Chlorox				0.9081	19.003			10.5		0.1431	11.0
41	Total Hexa-Chlorox				0.9923	19.003			43.0		0.2597	43.0
42	Total Hepta-Chlorox				0.8839	19.003			24.1		0.7831	24.1
43	Total Tetra-Furans				0.7510	19.003			279		0.1721	279
44	Total Penta-Furans				0.2601	19.003			37.3		0.0301	37.3
45	Total Toluene				0.0025	19.003			494		0.2211	494
46	Total Hexa-Furans				0.9341	19.003			77		0.5011	60
47	Total Hepta-Furans				0.8734	19.003			202		0.1541	202



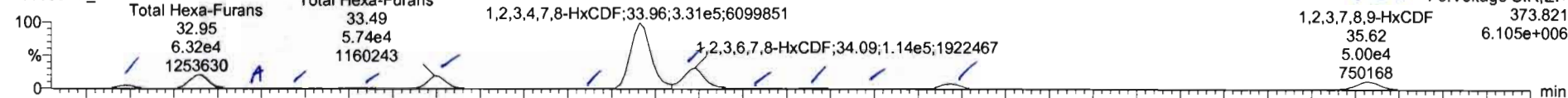
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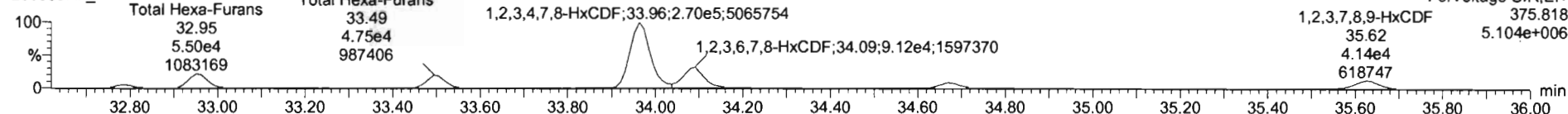
Name: 200603R2_4, Date: 03-Jun-2020, Time: 22:11:24, ID: 2000965-12 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

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

200603R2_4

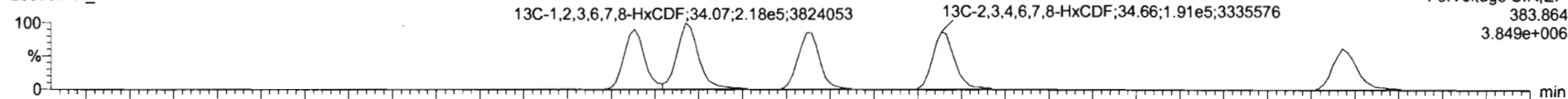


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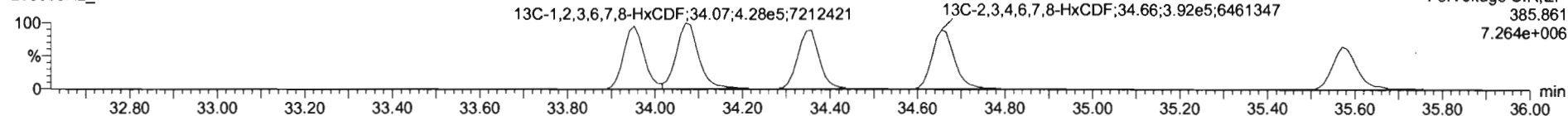


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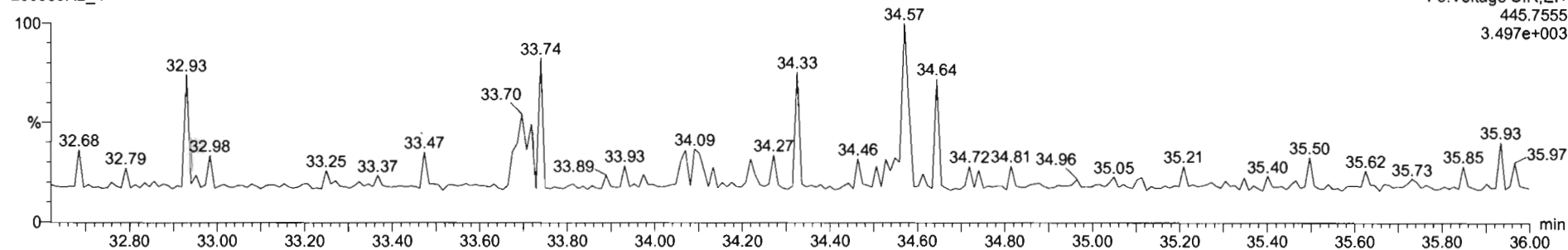


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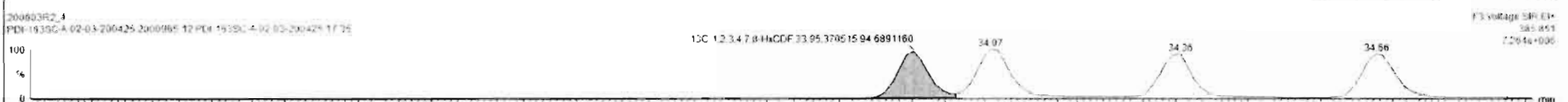
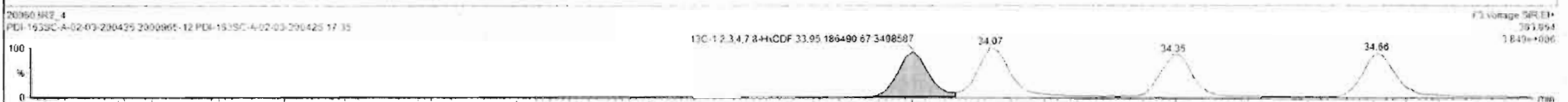
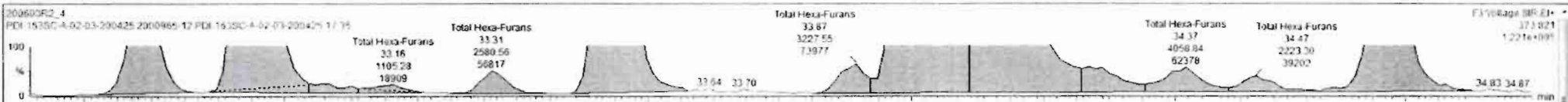
DPE3

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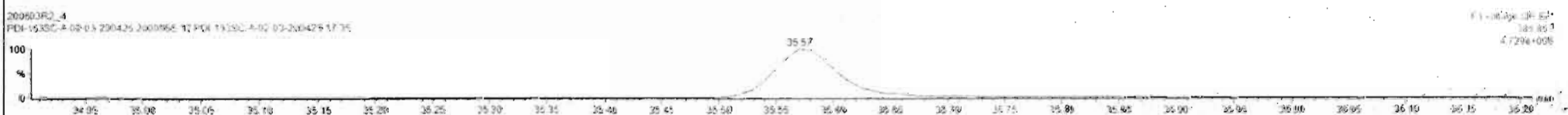
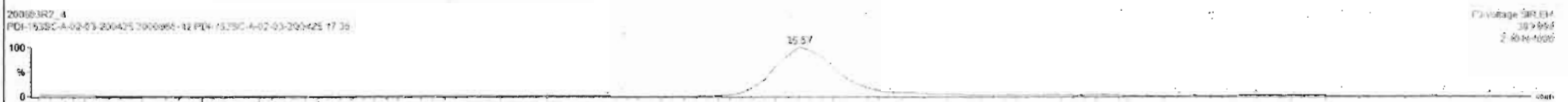
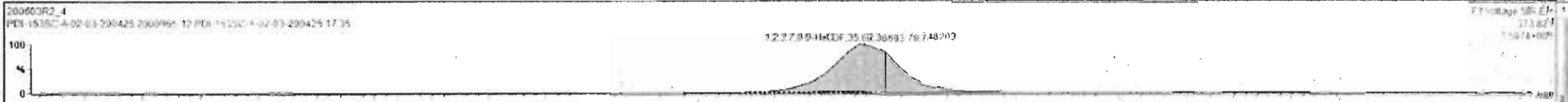




#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	5.45e5	0.50	NO	1.0000	10.000	34.35	1.000	200	100	0.778	
39	Total Tetra-Dioxins				0.8853	10.000			12.7		0.0621	12.7
40	Total Penta-Dioxins				0.9081	10.000			10.5		0.145	11.0
41	Total Hexa-Dioxins				0.8927	10.000			43.0		0.297	43.0
42	Total Hepta-Dioxins				0.8839	10.000			245		0.783	245
43	Total Tetra-Furans				0.7510	10.000			279		0.172	279
44	1st Func. Penta-Furans				0.8925	10.000			37.2		0.0309	37.2
45	Total Penta-Furans				0.8925	10.000			403		0.281	405
46	Total Hexa-Furans				0.8241	10.000			400		0.503	499
47	Total Hepta-Furans				0.8734	10.000			282		0.596	282
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	CPE1											
54	CPE2											
55	CPE3											
56	CPE4											
57	CPE5											
58	CPE6											



K1	Name	Resp	RA	obj	RRF	WSVol	RY	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	1.45e4	0.50	NO	1.0000	10.003	34.75	1.000	260	100	0.710	
39	Total Tetra-Dioxins				0.8883	10.003			12.7		0.0621	12.7
40	Total Penta-Dioxins				0.9081	10.003			10.0		0.145	11.0
41	Total Hexa-Dioxins				0.8923	10.003			43.0		0.267	43.0
42	Total Hepta-Dioxins				0.8830	10.003			245		0.783	245
43	Total Tetra-Furans				0.7510	10.003			279		0.172	279
44	1st Func. Penta-Furans				0.8925	10.003			37.2		0.0309	37.2
45	Total Penta-Furans				0.8925	10.003			407		0.231	407
46	Total Hexa-Furans				0.8541	10.003			400		0.503	400
47	Total Hepta-Furans				0.8734	10.003			262		0.595	262
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											
56	DPE4											
57	DPE5											
58	DPE6											



Custom Reporting: Select reports to generate

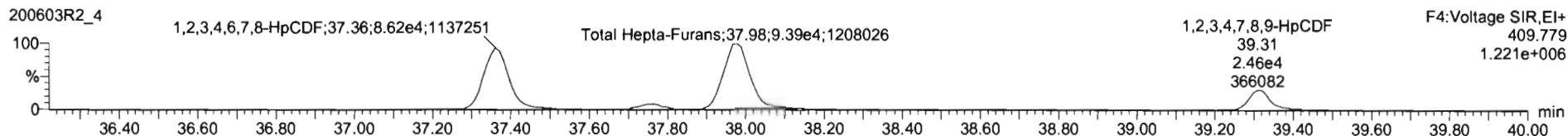
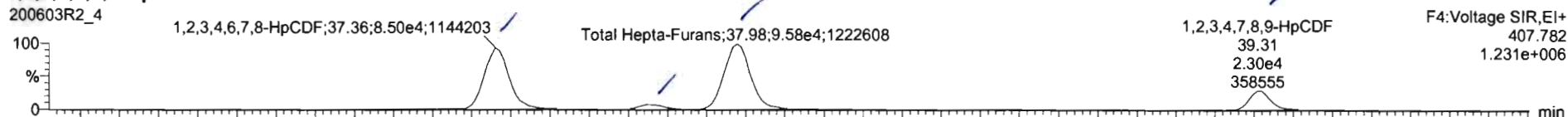
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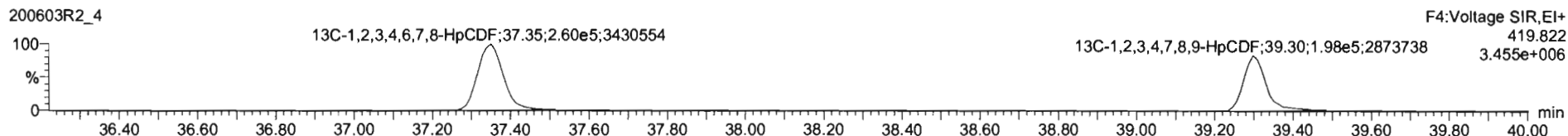
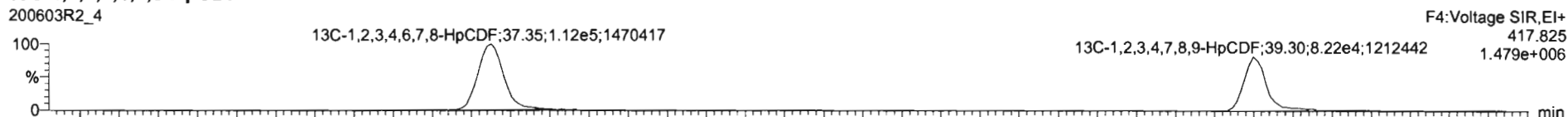
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Name: 200603R2_4, Date: 03-Jun-2020, Time: 22:11:24, ID: 2000965-12 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

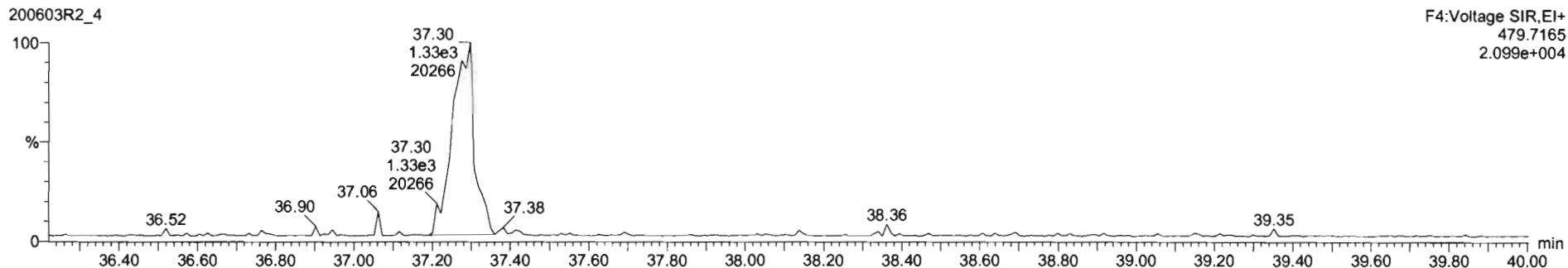
1,2,3,4,6,7,8-HpCDF



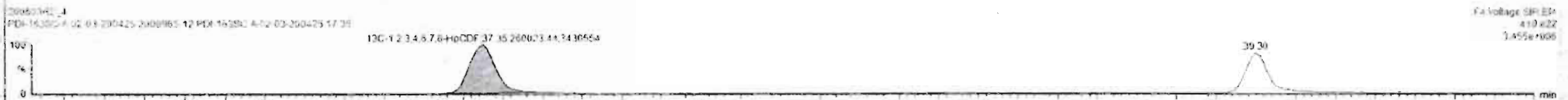
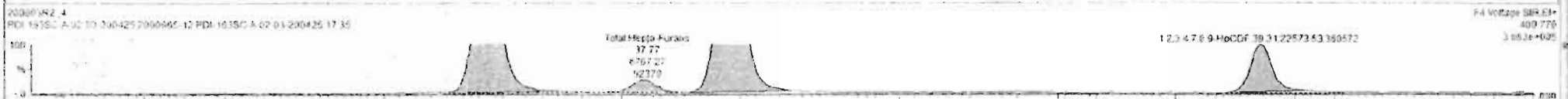
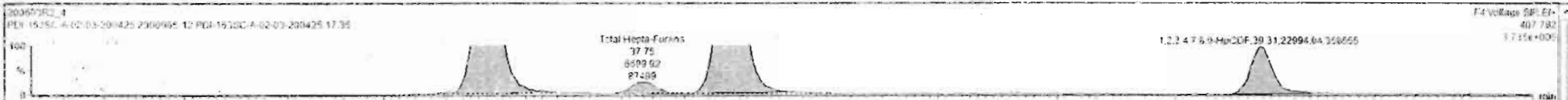
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DPE4



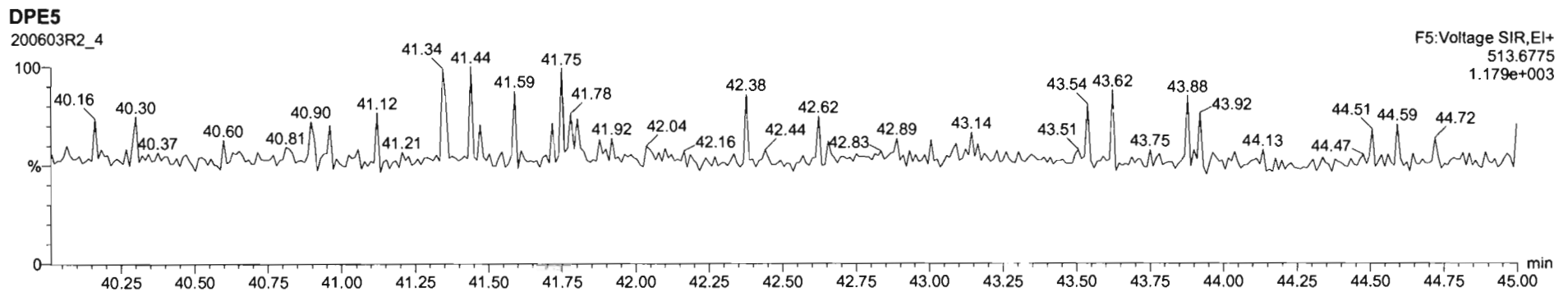
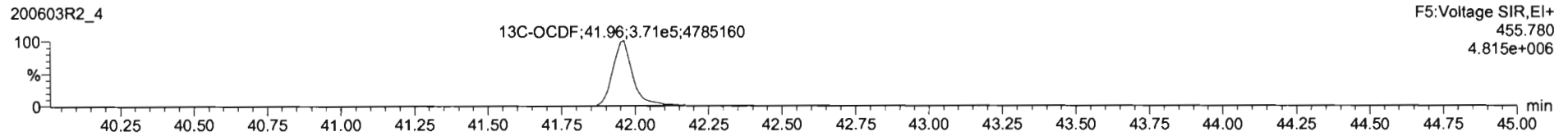
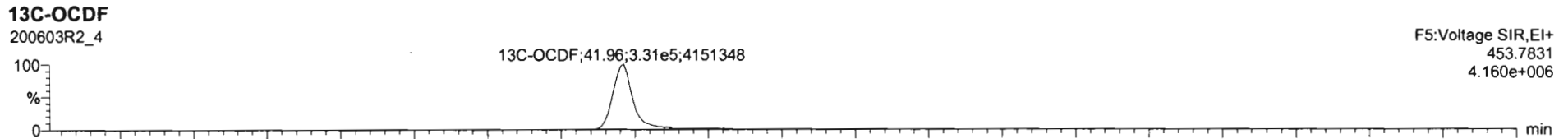
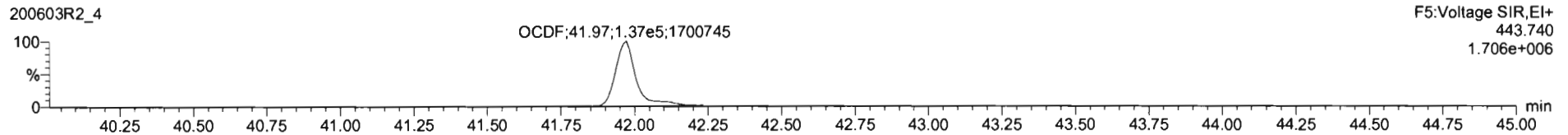
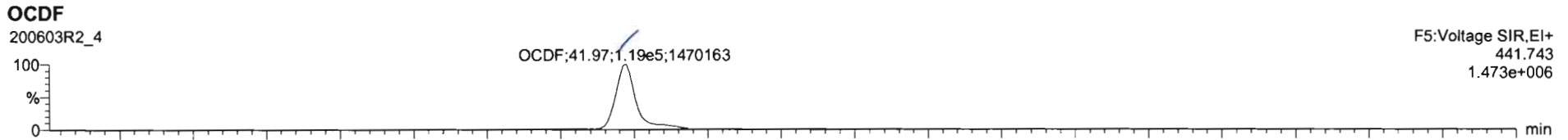
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32	13C-1,2,3,4,6-HeCDF	0.466	0.56	NO	1.0000	10.003	14.16	1.000	200	100	0.770	
39	Total Tetra-Dioxins				0.0003	10.003			12.7		0.9621	12.7
40	Total Penta-Dioxins				0.0001	10.003			10.5		0.145	11.6
41	Total Hexa-Dioxins				0.0023	10.003			43.0		0.297	43.3
42	Total Hepta-Dioxins				0.0130	10.003			245		0.783	245
43	Total Tetra-Furans				0.0510	10.003			279		0.172	279
44	1st Func. Penta-Furans				0.0026	10.003			37.2		0.0100	37.2
45	Total Penta-Furans				0.0525	10.003			402		0.281	402
46	Total Hexa-Furans				0.0111	10.003			499		0.563	499
47	Total Hepta-Furans				0.1734	10.003			227		0.500	227
48	PR1											
49	PR2											
50	PR3											
51	PR4											
52	PR5											
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54	DP2											
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56	DP4											
57	DP5											
58	DP6											



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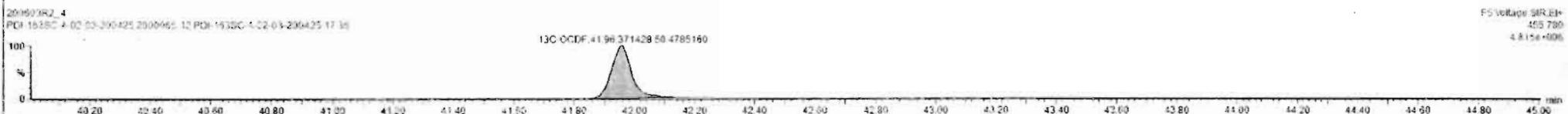
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Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

Name: 200603R2_4, Date: 03-Jun-2020, Time: 22:11:24, ID: 2000965-12 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425



Name	Pulse	RA	ny	RIF	width	RT	RRT	Conc	%Rec	QA	EMPC
17	OCDF	2.46e5	0.36	NO	0.0005	10.263	41.97	1.000	174	0.374	174
18	13C-2,3,7,6-TCDD	9.7e5	0.79	NO	1.1563	10.982	26.45	1.026	209	1.026	209

Name	RT	min Resp	mu Resp	RA	ny	EMPC	Conc
1							



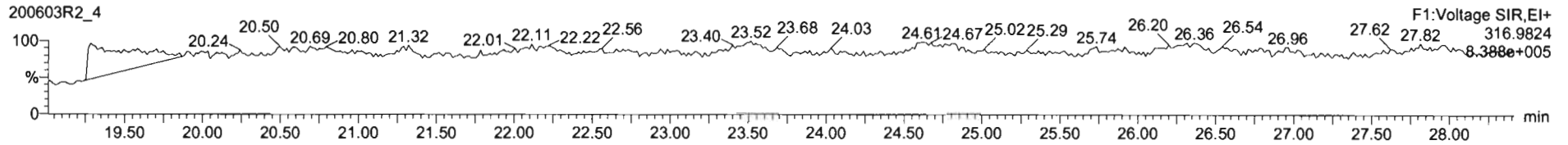
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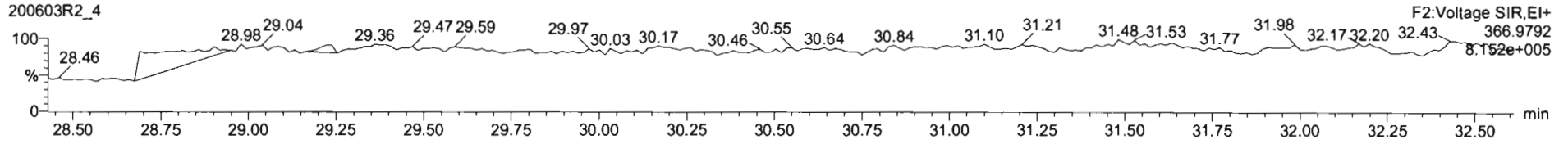
Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

Name: 200603R2_4, Date: 03-Jun-2020, Time: 22:11:24, ID: 2000965-12 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

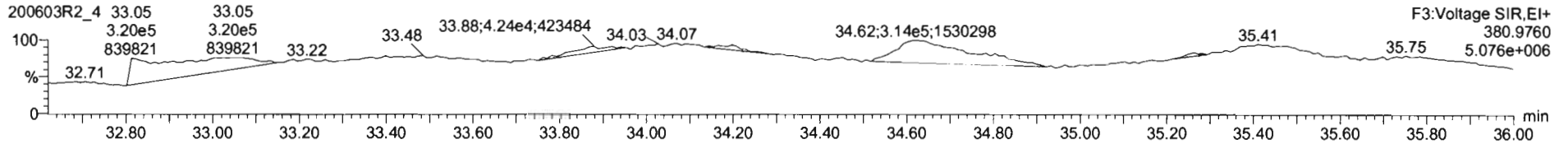
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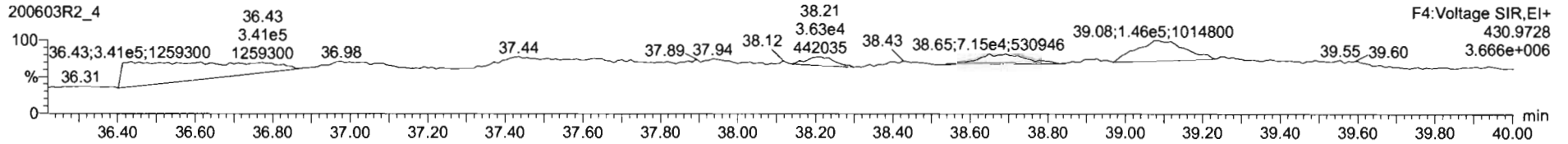
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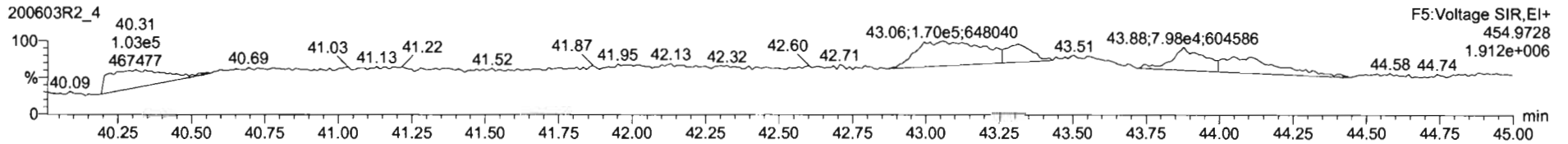
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R2\200603R2-5.qld

Last Altered: Monday, June 08, 2020 10:59:36 AM Pacific Daylight Time
Printed: Monday, June 08, 2020 11:00:20 AM Pacific Daylight Time

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Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_5, Date: 03-Jun-2020, Time: 22:57:38, ID: B0E0020-DUP1 Duplicate 17.34, 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	4.05e3	0.70	NO	0.888	9.997	26.531	26.51	1.001	1.001	0.99933		0.0915	0.999
2	2 1,2,3,7,8-PeCDD	3.16e3	0.56	NO	0.908	9.997	31.488	31.47	1.001	1.000	1.1268		0.133	1.13
3	3 1,2,3,4,7,8-HxCDD	1.65e3	1.13	NO	1.03	9.997	34.846	34.86	1.000	1.001	0.74966		0.364	0.750
4	4 1,2,3,6,7,8-HxCDD	1.07e4	1.11	NO	0.892	9.997	34.943	34.96	1.000	1.001	4.5416		0.364	4.54
5	5 1,2,3,7,8,9-HxCDD	3.82e3	1.24	NO	0.887	9.997	35.231	35.24	1.000	1.001	1.8504		0.416	1.85
6	6 1,2,3,4,6,7,8-HpCDD	1.89e5	1.00	NO	0.864	9.997	38.768	38.78	1.000	1.001	123.44		0.852	123
7	7 OCDD	2.47e6	0.88	NO	0.914	9.997	41.749	41.76	1.000	1.000	1607.8		0.853	1610
8	8 2,3,7,8-TCDF	4.11e5	0.74	NO	0.751	9.997	25.627	25.63	1.001	1.001	94.017	(66.5)	0.142	94.0
9	9 1,2,3,7,8-PeCDF	8.95e5	1.53	NO	0.893	9.997	30.205	30.20	1.001	1.000	207.20		0.234	207
10	10 2,3,4,7,8-PeCDF	2.84e5	1.53	NO	0.935	9.997	31.180	31.18	1.001	1.000	64.502		0.201	64.5
11	11 1,2,3,4,7,8-HxCDF	6.70e5	1.19	NO	0.884	9.997	33.963	33.97	1.000	1.000	266.59		0.428	267
12	12 1,2,3,6,7,8-HxCDF	1.98e5	1.22	NO	0.889	9.997	34.090	34.10	1.000	1.001	67.273		0.396	67.3
13	13 2,3,4,6,7,8-HxCDF	4.84e4	1.20	NO	0.934	9.997	34.701	34.68	1.001	1.000	17.986		0.414	18.0
14	14 1,2,3,7,8,9-HxCDF	3.13e4	1.14	NO	0.871	9.997	35.582	35.62	1.000	1.001	13.417		0.602	13.4
15	15 1,2,3,4,6,7,8-HpCDF	2.18e5	0.99	NO	0.873	9.997	37.387	37.36	1.001	1.000	104.29		0.404	104
16	16 1,2,3,4,7,8,9-HpCDF	3.83e4	0.97	NO	1.01	9.997	39.310	39.32	1.000	1.000	27.598		0.528	27.6
17	17 OCDF	2.36e5	0.82	NO	0.806	9.997	41.940	41.95	1.000	1.000	161.22		0.380	161
18	18 13C-2,3,7,8-TCDD	9.12e5	0.75	NO	1.16	9.997	26.522	26.50	1.026	1.026	215.90	108	0.207	
19	19 13C-1,2,3,7,8-PeCDD	6.17e5	0.64	NO	0.849	9.997	31.711	31.47	1.227	1.218	199.07	99.5	0.353	
20	20 13C-1,2,3,4,7,8-HxCDD	4.27e5	1.28	NO	0.779	9.997	34.841	34.84	1.014	1.014	195.86	97.9	0.700	
21	21 13C-1,2,3,6,7,8-HxCDD	5.26e5	1.27	NO	1.02	9.997	34.955	34.94	1.017	1.017	184.70	92.3	0.536	
22	22 13C-1,2,3,7,8,9-HxCDD	4.66e5	1.22	NO	0.903	9.997	35.226	35.22	1.025	1.025	184.33	92.1	0.604	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.56e5	1.00	NO	0.689	9.997	38.751	38.76	1.128	1.128	184.18	92.1	0.552	
24	24 13C-OCDD	6.72e5	0.89	NO	0.652	9.997	41.775	41.75	1.216	1.215	367.82	91.9	0.493	
25	25 13C-2,3,7,8-TCDF	1.16e6	0.77	NO	1.06	9.997	25.564	25.60	0.989	0.991	201.22	101	0.288	
26	26 13C-1,2,3,7,8-PeCDF	9.68e5	1.61	NO	0.838	9.997	30.093	30.18	1.165	1.168	211.50	106	0.585	
27	27 13C-2,3,4,7,8-PeCDF	9.41e5	1.59	NO	0.817	9.997	31.047	31.16	1.202	1.206	210.92	105	0.601	
28	28 13C-1,2,3,4,7,8-HxCDF	5.69e5	0.50	NO	1.01	9.997	33.972	33.96	0.989	0.989	201.52	101	0.634	
29	29 13C-1,2,3,6,7,8-HxCDF	6.63e5	0.49	NO	1.17	9.997	34.096	34.08	0.992	0.992	202.83	101	0.547	
30	30 13C-2,3,4,6,7,8-HxCDF	5.77e5	0.51	NO	1.02	9.997	34.670	34.67	1.009	1.009	201.52	101	0.625	
31	31 13C-1,2,3,7,8,9-HxCDF	5.35e5	0.52	NO	0.860	9.997	35.570	35.58	1.035	1.036	222.37	111	0.743	

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-5.qld

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Printed: Monday, June 08, 2020 11:00:20 AM Pacific Daylight Time

Name: 200603R2_5, Date: 03-Jun-2020, Time: 22:57:38, ID: B0E0020-DUP1 Duplicate 17.34, 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	4.79e5	0.43	NO	0.774	9.997	37.319	37.35	1.086	1.087	220.67	110	0.768	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.74e5	0.42	NO	0.521	9.997	39.349	39.31	1.145	1.144	187.92	93.9	1.14	
34	34 13C-OCDF	7.26e5	0.87	NO	0.746	9.997	41.946	41.94	1.221	1.221	347.55	86.9	0.577	
35	35 37Cl-2,3,7,8-TCDD	3.23e5			1.04	9.997	26.553	26.51	1.028	1.026	85.191	106	0.0568	
36	36 13C-1,2,3,4-TCDD	7.31e5	0.79	NO	1.00	9.997	25.890	25.84	1.000	1.000	200.06	100	0.239	
37	37 13C-1,2,3,4-TCDF	1.09e6	0.78	NO	1.00	9.997	24.360	24.16	1.000	1.000	200.06	100	0.305	
38	38 13C-1,2,3,4,6,9-HxCDF	5.60e5	0.51	NO	1.00	9.997	34.420	34.36	1.000	1.000	200.06	100	0.639	
39	39 Total Tetra-Dioxins				0.888	9.997	24.620		0.000		11.223		0.0915	11.2
40	40 Total Penta-Dioxins				0.908	9.997	29.960		0.000		10.973		0.133	11.7
41	41 Total Hexa-Dioxins				0.892	9.997	33.635		0.000		51.078		0.398	52.4
42	42 Total Hepta-Dioxins				0.864	9.997	37.640		0.000		322.00		0.852	322
43	43 Total Tetra-Furans				0.751	9.997	23.610		0.000		270.46		0.142	271
44	44 1st Func. Penta-Furans				0.893	9.997	27.580		0.000		40.066		0.0328	40.1
45	45 Total Penta-Furans				0.893	9.997	29.275		0.000		536.62		0.223	537
46	46 Total Hexa-Furans				0.934	9.997	33.555		0.000		499.00		0.435	499
47	47 Total Hepta-Furans				0.873	9.997	37.835		0.000		271.75		0.480	273

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-5.qld

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Printed: Monday, June 08, 2020 11:00:20 AM Pacific Daylight Time

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_5, Date: 03-Jun-2020, Time: 22:57:38, ID: B0E0020-DUP1 Duplicate 17.34, 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	22.52	1.402e5	1.780e5	1.310e4	1.753e4	0.75	NO	3.063e4	7.5639	7.5639	0.0915
2	Total Tetra-Dioxins	22.94	1.746e4	2.232e4	1.693e3	2.124e3	0.80	NO	3.816e3	0.94247	0.94247	0.0915
3	Total Tetra-Dioxins	24.34	7.424e3	1.046e4	5.971e2	7.047e2	0.85	NO	1.302e3	0.32149	0.32149	0.0915
4	Total Tetra-Dioxins	24.82	1.478e4	1.734e4	1.165e3	1.438e3	0.81	NO	2.603e3	0.64292	0.64292	0.0915
5	Total Tetra-Dioxins	26.26	1.815e4	2.296e4	1.341e3	1.709e3	0.78	NO	3.050e3	0.75317	0.75317	0.0915
6	2,3,7,8-TCDD	26.51	2.281e4	3.558e4	1.670e3	2.376e3	0.70	NO	4.046e3	0.99933	0.99933	0.0915

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.25	5.496e4	9.962e4	4.220e3	6.787e3	0.62	NO	1.101e4	3.9281	3.9281	0.133
2	Total Penta-Dioxins	29.73	1.824e4	2.367e4	9.269e2	1.431e3	0.65	NO	2.358e3	0.84164	0.84164	0.133
3	Total Penta-Dioxins	30.23	5.601e4	8.707e4	3.240e3	5.022e3	0.65	NO	8.262e3	2.9486	2.9486	0.133
4	Total Penta-Dioxins	30.40	2.071e4	2.899e4	9.439e2	1.297e3	0.73	YES	0.000e0	0.00000	0.75437	0.133
5	Total Penta-Dioxins	30.49	1.348e4	2.028e4	7.193e2	1.177e3	0.61	NO	1.896e3	0.67680	0.67680	0.133
6	Total Penta-Dioxins	30.70	1.694e4	3.724e4	1.490e3	2.576e3	0.58	NO	4.066e3	1.4512	1.4512	0.133
7	1,2,3,7,8-PeCDD	31.47	2.000e4	3.931e4	1.138e3	2.019e3	0.56	NO	3.157e3	1.1268	1.1268	0.133

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	4.948e5	3.952e5	2.504e4	2.036e4	1.23	NO	4.540e4	21.515	21.515	0.398
2	Total Hexa-Dioxins	33.91	4.702e4	3.981e4	2.860e3	2.262e3	1.26	NO	5.122e3	2.4275	2.4275	0.398
3	Total Hexa-Dioxins	34.17	3.541e5	2.887e5	2.345e4	1.874e4	1.25	NO	4.219e4	19.994	19.994	0.398
4	Total Hexa-Dioxins	34.26	2.483e4	1.898e4	1.497e3	9.466e2	1.58	YES	0.000e0	0.00000	1.0049	0.398
5	1,2,3,4,7,8-HxCDD	34.86	1.978e4	1.262e4	8.775e2	7.772e2	1.13	NO	1.655e3	0.74966	0.74966	0.364
6	1,2,3,6,7,8-HxCDD	34.96	9.105e4	7.957e4	5.604e3	5.049e3	1.11	NO	1.065e4	4.5416	4.5416	0.364
7	Total Hexa-Dioxins	35.13	9.065e3	1.023e4	3.363e2	4.241e2	0.79	YES	0.000e0	0.00000	0.28794	0.398
8	1,2,3,7,8,9-HxCDD	35.24	3.151e4	2.996e4	2.116e3	1.706e3	1.24	NO	3.823e3	1.8504	1.8504	0.416

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-5.qld

Last Altered: Monday, June 08, 2020 10:59:36 AM Pacific Daylight Time

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Name: 200603R2_5, Date: 03-Jun-2020, Time: 22:57:38, ID: B0E0020-DUP1 Duplicate 17.34, Description: Duplicate

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.76	1.942e6	1.852e6	1.529e5	1.519e5	1.01	NO	3.048e5	198.56	198.56	0.852
2	1,2,3,4,6,7,8-HpCDD	38.78	1.341e6	1.339e6	9.471e4	9.479e4	1.00	NO	1.895e5	123.44	123.44	0.852

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.38	2.203e4	2.855e4	1.774e3	2.319e3	0.77	NO	4.092e3	0.93643	0.93643	0.142
2	Total Tetra-Furans	20.90	3.939e4	4.784e4	3.427e3	4.161e3	0.82	NO	7.588e3	1.7364	1.7364	0.142
3	Total Tetra-Furans	21.51	2.098e5	2.802e5	1.835e4	2.521e4	0.73	NO	4.355e4	9.9657	9.9657	0.142
4	Total Tetra-Furans	22.07	6.544e4	8.341e4	8.722e3	1.165e4	0.75	NO	2.038e4	4.6627	4.6627	0.142
5	Total Tetra-Furans	22.49	4.368e5	5.981e5	4.349e4	5.927e4	0.73	NO	1.028e5	23.514	23.514	0.142
6	Total Tetra-Furans	22.98	1.802e5	2.472e5	1.726e4	2.320e4	0.74	NO	4.046e4	9.2591	9.2591	0.142
7	Total Tetra-Furans	23.13	1.629e4	1.613e4	9.991e2	1.275e3	0.78	NO	2.275e3	0.52047	0.52047	0.142
8	Total Tetra-Furans	23.34	5.424e4	7.558e4	4.942e3	6.894e3	0.72	NO	1.184e4	2.7085	2.7085	0.142
9	Total Tetra-Furans	23.77	1.085e4	1.548e4	1.051e3	1.485e3	0.71	NO	2.536e3	0.58037	0.58037	0.142
10	Total Tetra-Furans	23.89	1.248e4	1.606e4	9.290e2	1.303e3	0.71	NO	2.232e3	0.51072	0.51072	0.142
11	Total Tetra-Furans	24.07	1.139e5	1.547e5	7.917e3	1.081e4	0.73	NO	1.873e4	4.2855	4.2855	0.142
12	Total Tetra-Furans	24.16	2.247e5	3.144e5	2.260e4	3.057e4	0.74	NO	5.317e4	12.166	12.166	0.142
13	Total Tetra-Furans	24.69	2.020e6	2.688e6	1.588e5	2.134e5	0.74	NO	3.722e5	85.162	85.162	0.142
14	Total Tetra-Furans	24.99	5.558e4	7.367e4	4.413e3	5.940e3	0.74	NO	1.035e4	2.3692	2.3692	0.142
15	Total Tetra-Furans	25.18	1.362e4	1.711e4	1.311e3	1.902e3	0.69	NO	3.213e3	0.73523	0.73523	0.142
16	Total Tetra-Furans	25.39	2.401e4	3.046e4	1.163e3	1.808e3	0.64	YES	0.000e0	0.00000	0.61177	0.142
17	Total Tetra-Furans	25.53	2.339e5	3.145e5	1.335e4	1.827e4	0.73	NO	3.162e4	7.2355	7.2355	0.142
18	2,3,7,8-TCDF	25.63	2.351e6	3.129e6	1.747e5	2.362e5	0.74	NO	4.109e5	94.017	94.017	0.142
19	Total Tetra-Furans	25.99	6.232e4	8.138e4	4.453e3	6.243e3	0.71	NO	1.070e4	2.4475	2.4475	0.142
20	Total Tetra-Furans	26.24	1.671e4	1.979e4	1.159e3	1.400e3	0.83	NO	2.559e3	0.58555	0.58555	0.142
21	Total Tetra-Furans	27.64	1.992e5	2.567e5	1.346e4	1.741e4	0.77	NO	3.087e4	7.0643	7.0643	0.142

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.61	1.719e6	1.088e6	1.053e5	6.535e4	1.61	NO	1.706e5	40.066	40.066	0.0328

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-5.qld

Last Altered: Monday, June 08, 2020 10:59:36 AM Pacific Daylight Time

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Name: 200603R2_5, Date: 03-Jun-2020, Time: 22:57:38, ID: B0E0020-DUP1 Duplicate 17.34, Description: Duplicate

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.06	1.140e5	5.866e4	6.088e3	3.459e3	1.76	NO	9.547e3	2.2415	2.2415	0.223
2	Total Penta-Furans	29.21	4.832e6	3.106e6	2.985e5	1.902e5	1.57	NO	4.887e5	114.73	114.73	0.223
3	Total Penta-Furans	29.79	3.522e5	2.048e5	2.023e4	1.287e4	1.57	NO	3.310e4	7.7722	7.7722	0.223
4	Total Penta-Furans	30.00	8.075e5	5.430e5	4.480e4	2.931e4	1.53	NO	7.410e4	17.399	17.399	0.223
5	1,2,3,7,8-PeCDF	30.20	9.530e6	6.163e6	5.409e5	3.542e5	1.53	NO	8.951e5	207.20	207.20	0.234
6	Total Penta-Furans	30.46	3.597e6	2.351e6	1.914e5	1.245e5	1.54	NO	3.159e5	74.163	74.163	0.223
7	2,3,4,7,8-PeCDF	31.18	4.162e6	2.674e6	1.715e5	1.121e5	1.53	NO	2.836e5	64.502	64.502	0.201
8	Total Penta-Furans	31.19	3.870e6	2.490e6	1.164e5	7.254e4	1.61	NO	1.890e5	44.373	44.373	0.223
9	Total Penta-Furans	32.11	2.113e5	1.429e5	1.073e4	7.299e3	1.47	NO	1.803e4	4.2341	4.2341	0.223

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	3.286e5	2.737e5	1.591e4	1.345e4	1.18	NO	2.936e4	10.734	10.734	0.435
2	Total Hexa-Furans	32.96	1.413e6	1.127e6	6.838e4	5.671e4	1.21	NO	1.251e5	45.727	45.727	0.435
3	Total Hexa-Furans	33.32	2.659e4	1.985e4	1.211e3	1.097e3	1.10	NO	2.308e3	0.84368	0.84368	0.435
4	Total Hexa-Furans	33.51	1.527e6	1.275e6	7.697e4	6.407e4	1.20	NO	1.410e5	51.554	51.554	0.435
5	Total Hexa-Furans	33.87	5.843e4	4.841e4	2.668e3	2.181e3	1.22	NO	4.849e3	1.7726	1.7726	0.435
6	1,2,3,4,7,8-HxCDF	33.97	6.635e6	5.537e6	3.646e5	3.056e5	1.19	NO	6.702e5	266.59	266.59	0.428
7	1,2,3,6,7,8-HxCDF	34.10	1.773e6	1.505e6	1.089e5	8.928e4	1.22	NO	1.982e5	67.273	67.273	0.396
8	2,3,4,6,7,8-HxCDF	34.68	4.601e5	3.941e5	2.641e4	2.202e4	1.20	NO	4.843e4	17.986	17.986	0.414
9	1,2,3,7,8,9-HxCDF	35.62	6.673e5	5.280e5	1.664e4	1.462e4	1.14	NO	3.126e4	13.417	13.417	0.602
10	Total Hexa-Furans	35.63	7.659e5	6.331e5	3.508e4	2.813e4	1.25	NO	6.321e4	23.105	23.105	0.435

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	37.36	1.445e6	1.458e6	1.082e5	1.097e5	0.99	NO	2.179e5	104.29	104.29	0.404
2	Total Hepta-Furans	37.78	1.639e4	1.988e4	1.291e3	1.549e3	0.83	YES	0.000e0	0.00000	1.5404	0.480
3	Total Hepta-Furans	37.98	1.458e6	1.456e6	1.143e5	1.155e5	0.99	NO	2.298e5	139.86	139.86	0.480
4	1,2,3,4,7,8,9-HpCDF	39.32	3.002e5	3.084e5	1.891e4	1.940e4	0.97	NO	3.831e4	27.598	27.598	0.528

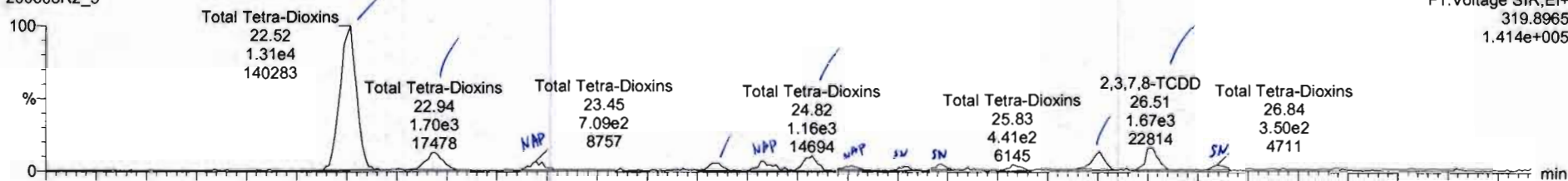
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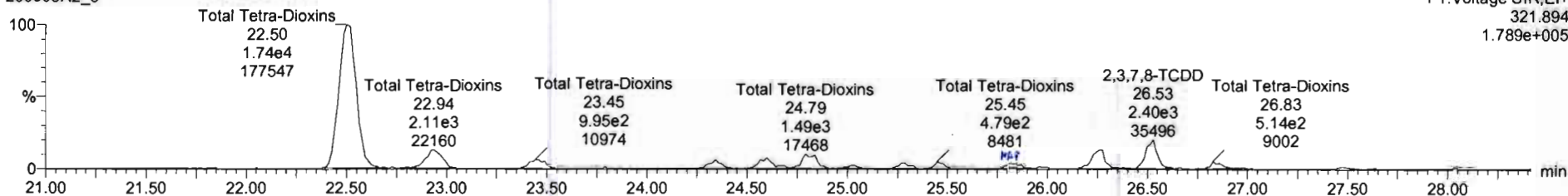
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2,3,7,8-TCDD

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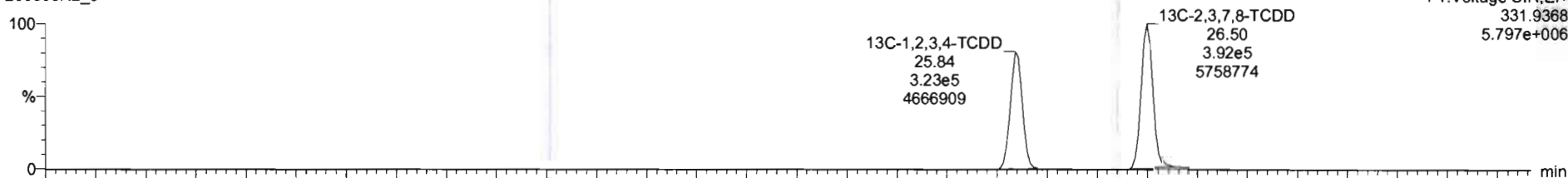


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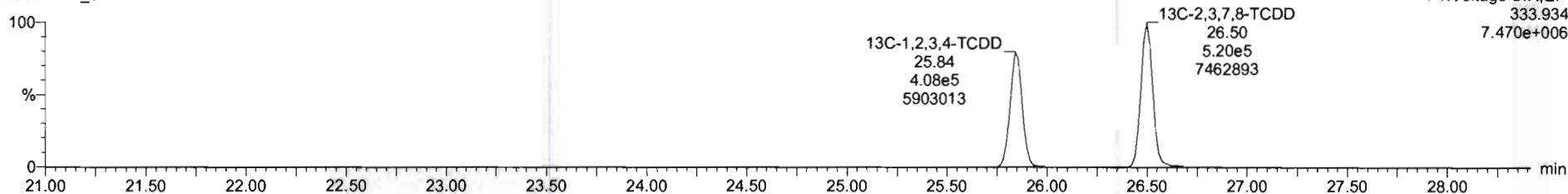


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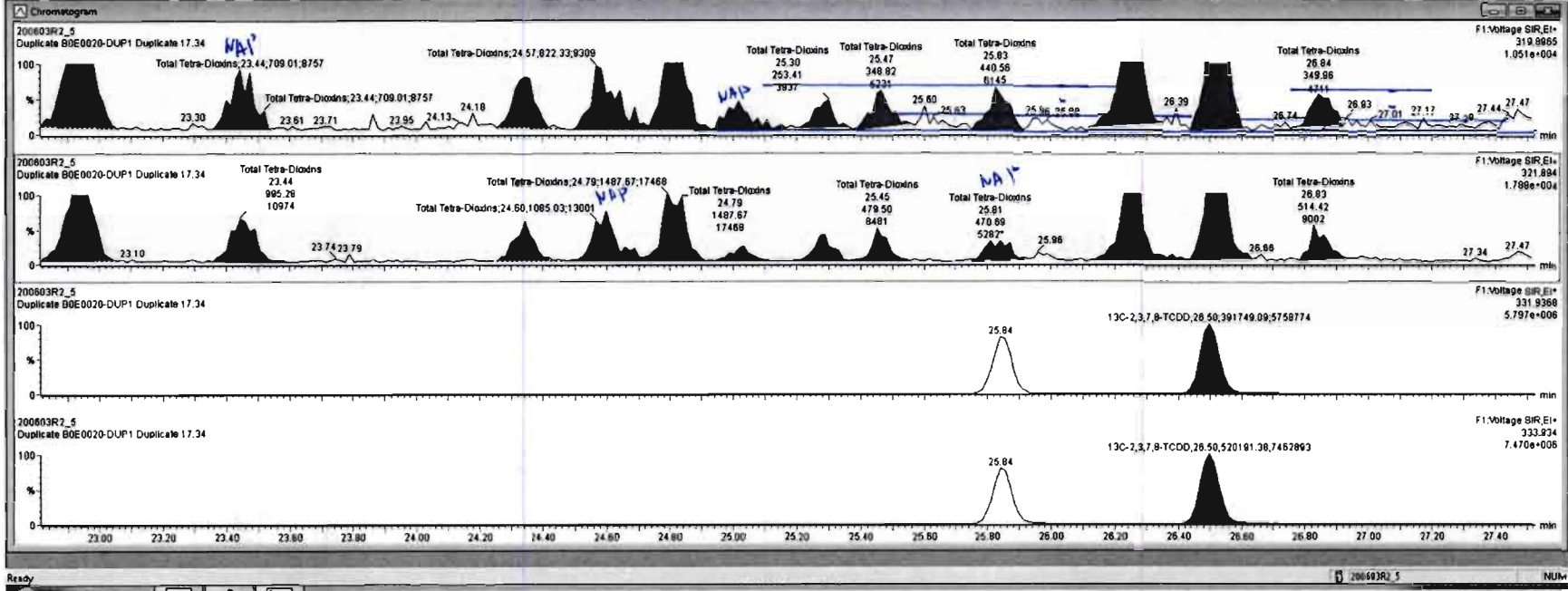


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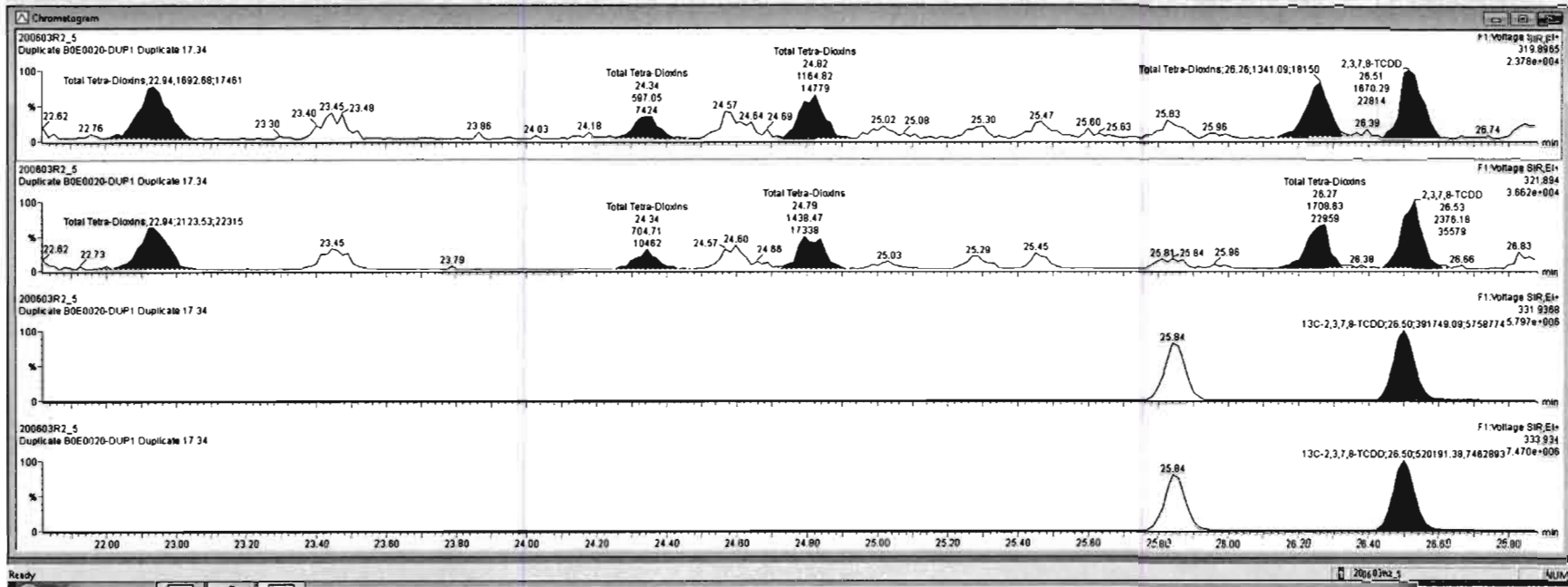
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39	Total Tetra-Dioxins				0.8923	8.997			5.03		0.0915	5.49
40	Total Penta-Dioxins				0.9281	8.997			12.7		0.133	12.7
41	Total Hexa-Dioxins				0.8923	8.997			51.1		0.398	52.5
42	Total Hepta-Dioxins				0.8539	8.997			322		0.852	322
43	Total Tetra-Dioxins				0.7419	0.907			964		0.445	967

SI	Name	RT	m1 Resp	m2 Resp	RA	rvly	EMPC	Conc
1	Total Tetra-Dioxins	26.84	3.500e2	5.144e2	0.68	NO	0.21347	0.21347
2	2,3,7,8-TCDD	26.51	1.670e3	2.403e3	0.69	NO	1.0061	1.0061
3	Total Tetra-Dioxins	26.26	1.348e3	1.848e3	0.73	NO	0.78927	0.78927
4	Total Tetra-Dioxins	25.83	4.409e2	4.590e2	0.96	YES	0.50022	0.00000
5	Total Tetra-Dioxins	25.47	3.486e2	4.795e2	0.73	NO	0.20458	0.20458



#	Name	Resp	RA	rvf	RF	intStd	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.0053	8.387			3.86		0.0615	3.86
40	Total Penta-Dioxins				0.0281	9.997			12.7		0.121	12.7
41	Total Hexa-Dioxins				0.0223	9.997			51.1		0.398	52.5
42	Total Hepta-Dioxins				0.0539	9.997			322		0.852	322
43	Total Tetra-Dioxins				0.0078	8.007			ndc		0.147	ndc

#	Name	RT	int Ramp	int Ramp	RA	rvf	EMPC	Conc
1	2,3,7,8-TCDD	26.51	1.670e3	2.376e3	0.70	NO	0.99933	0.96933
2	Total Tetra-Dioxins	26.26	1.341e3	1.709e3	0.78	NO	0.75317	0.75317
3	Total Tetra-Dioxins	24.82	1.165e3	1.439e3	0.81	NO	0.64292	0.64292
4	Total Tetra-Dioxins	24.34	5.871e2	7.047e2	0.85	NO	0.32149	0.32149
5	Total Tetra-Dioxins	22.94	1.893e3	2.124e3	0.80	NO	0.94247	0.94247



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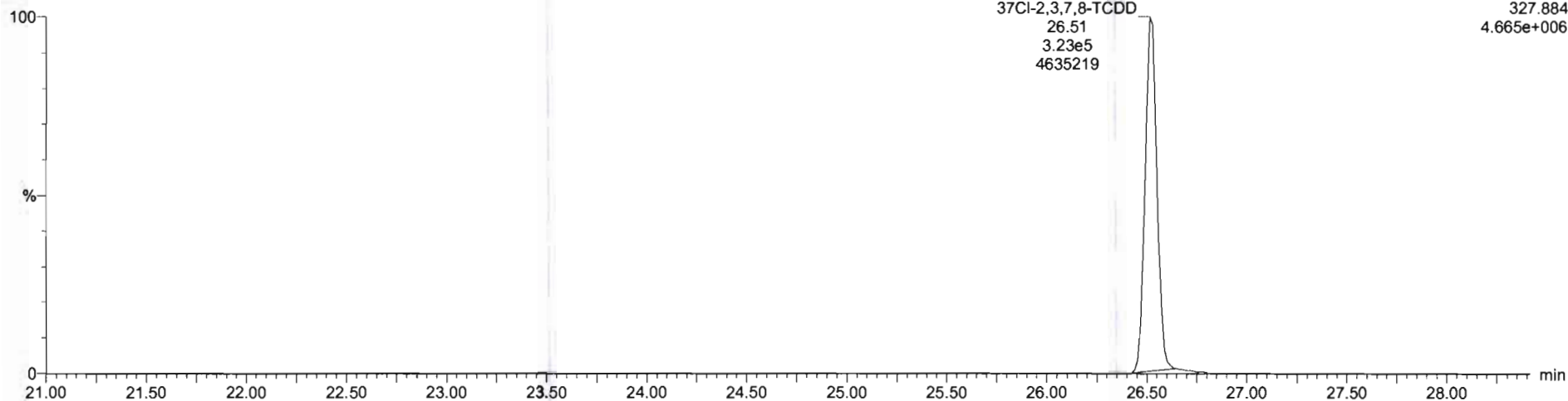
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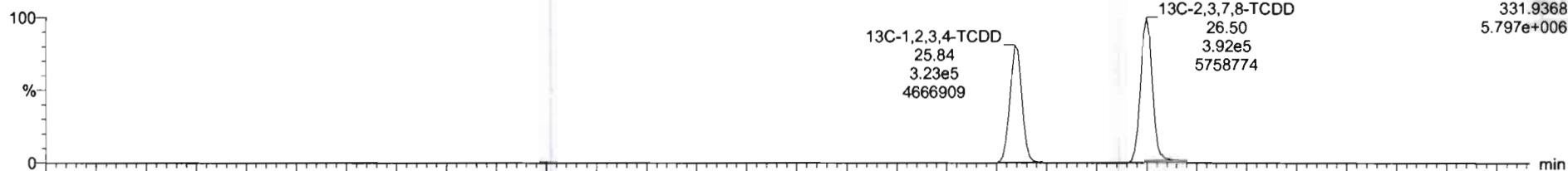
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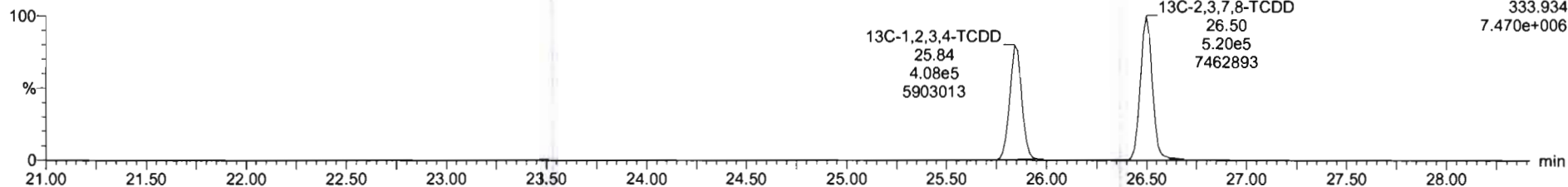


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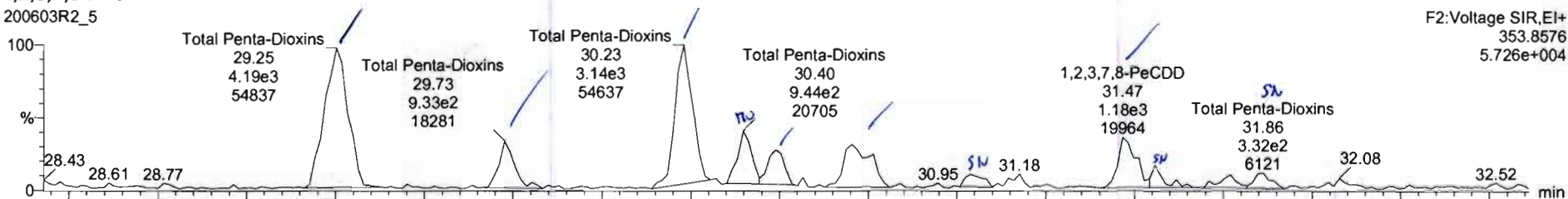
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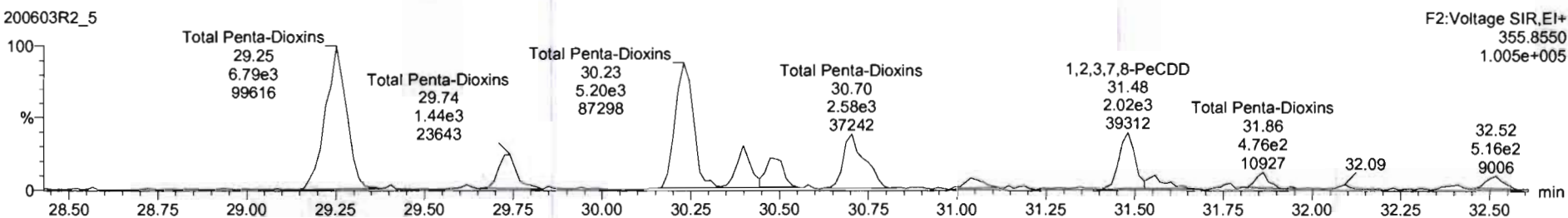
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1,2,3,7,8-PeCDD

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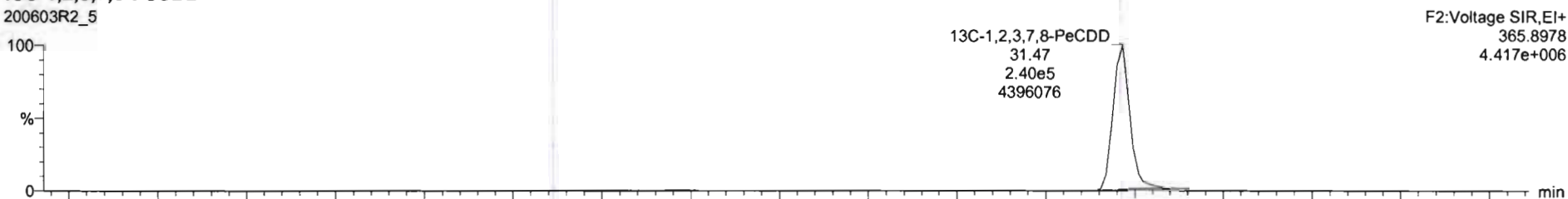


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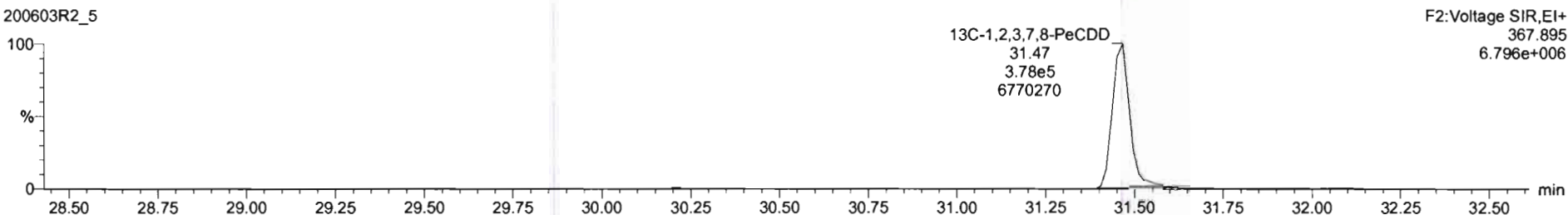


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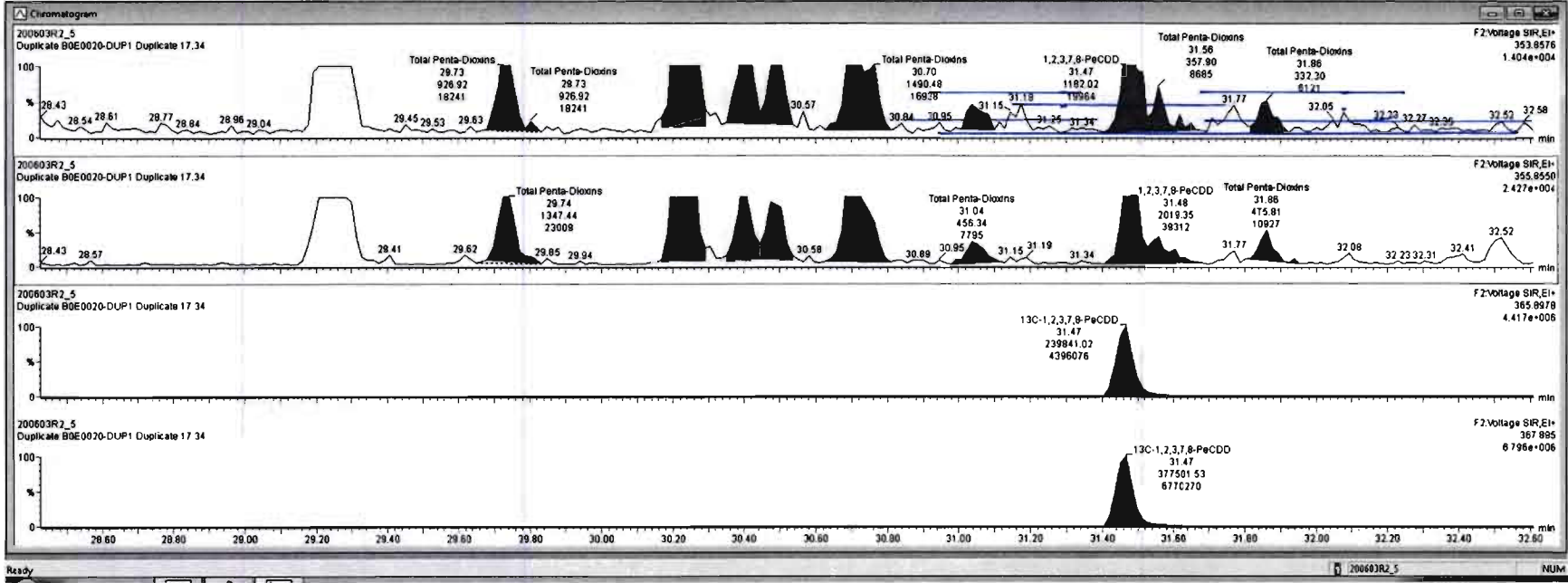


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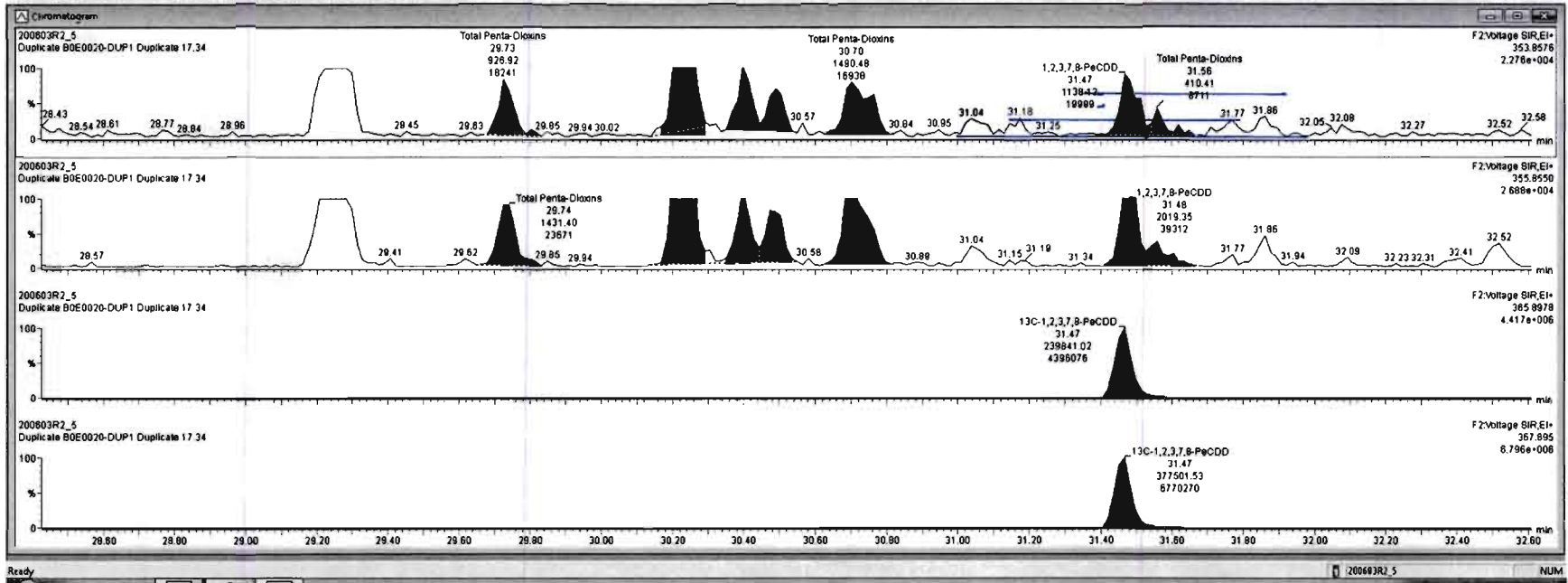
#	Name	Resp	RA	RV	RFV	retVol	RT	RTT	Conc	%Proc	DL	EMPC
39	Total Tetra-Dioxins				0.0003	9.997			3.66		0.0915	3.66
40	Total Penta-Dioxins				0.0011	9.997			6.79		0.133	6.76
41	Total Hexa-Dioxins				0.0023	9.997			51.1		0.398	52.5
42	Total Hepta-Dioxins				0.0039	9.997			322		0.852	322
43	Total Tetra-Dioxins				0.0010	9.997			661		0.147	667

#	Name	RT	m1 Resp	m2 Resp	RA	RV	RFV	Conc
1	Total Penta-Dioxins	29.73	9.26962	1.34763	0.69	NO	0.81167	0.81167
2	Total Penta-Dioxins	31.86	3.32362	4.75862	0.70	NO	0.26839	0.26839
3	Total Penta-Dioxins	31.86	3.57962	5.89662	0.81	NO	0.33611	0.33611
4	1,2,3,7,8-PeCDD	31.47	1.18763	2.01963	0.59	NO	1.1425	1.1425
5	Total Penta-Dioxins	31.04	2.90962	4.56362	0.64	NO	0.26896	0.26896
6	Total Penta-Dioxins	30.70	1.40962	2.67662	0.68	NO	1.4513	1.4513



Name	Resp	RA	rvy	RRF	VolAnd	RT	RRT	Conc	%Rec	OL	EMPC
39 Total Tetra-Dioxins				0.0003	9.997			3.66	0.0916	3.66	
40 Total Penta-Dioxins				0.0081	9.997			7.41	0.133	8.16	
41 Total Hexa-Dioxins				0.8923	9.997			11.1	0.398	12.5	
42 Total Hepta-Dioxins				0.9039	9.997			322	0.862	322	
43 Total Tetra-Dioxins				0.7448	0.007			966	0.147	967	

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1 Total Penta-Dioxins	29.73	9.269e2	1.431e3	0.65	NO	0.84164	0.84164
2 Total Penta-Dioxins	31.56	4.104e2	6.089e2	0.68	NO	0.36305	0.36305
3 1,2,3,7,8-PeCDD	31.47	1.139e3	2.019e3	0.58	NO	1.1268	1.1268
4 Total Penta-Dioxins	30.70	1.490e3	2.576e3	0.58	NO	1.4512	1.4512
5 Total Penta-Dioxins	30.49	7.193e2	1.177e3	0.61	NO	0.67680	0.67680
6 Total Penta-Dioxins	30.45	0.239e3	1.307e3	0.73	NO	0.35437	0.35437



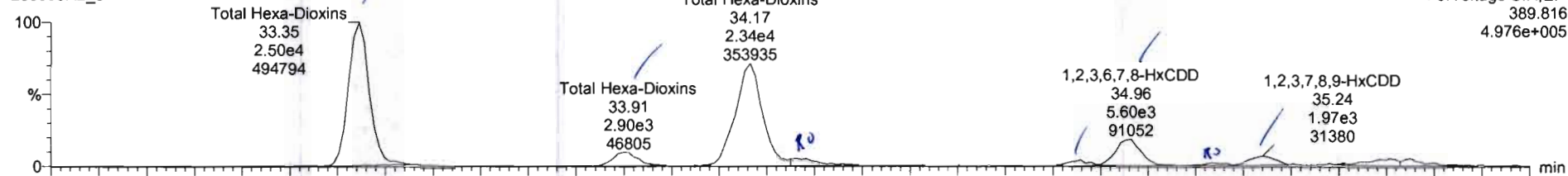
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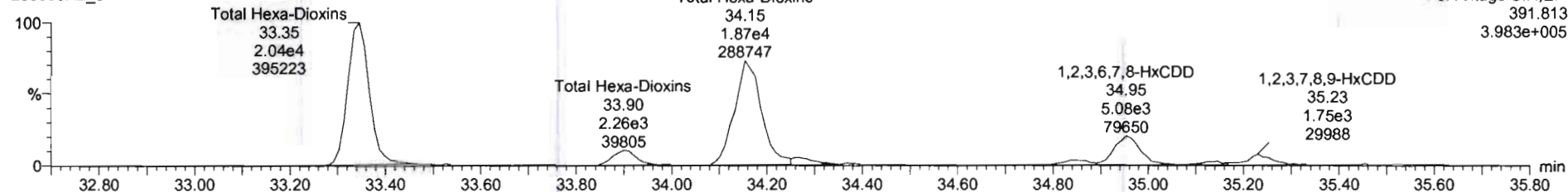
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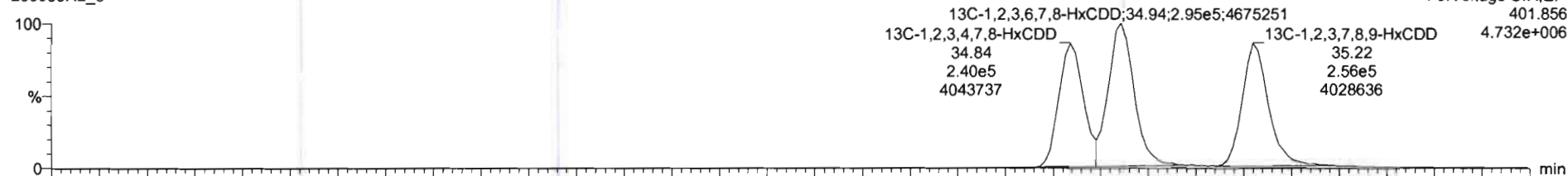


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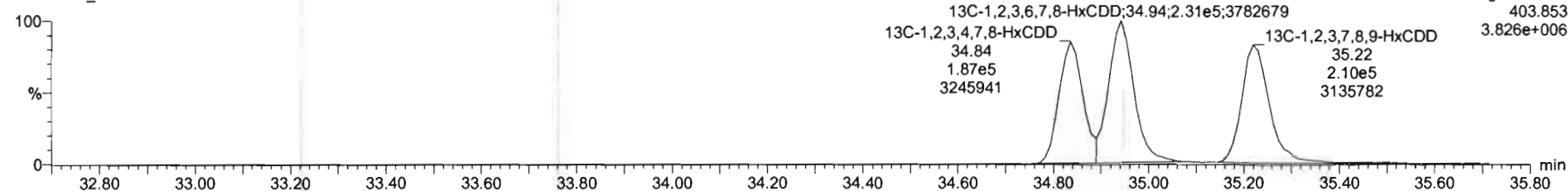


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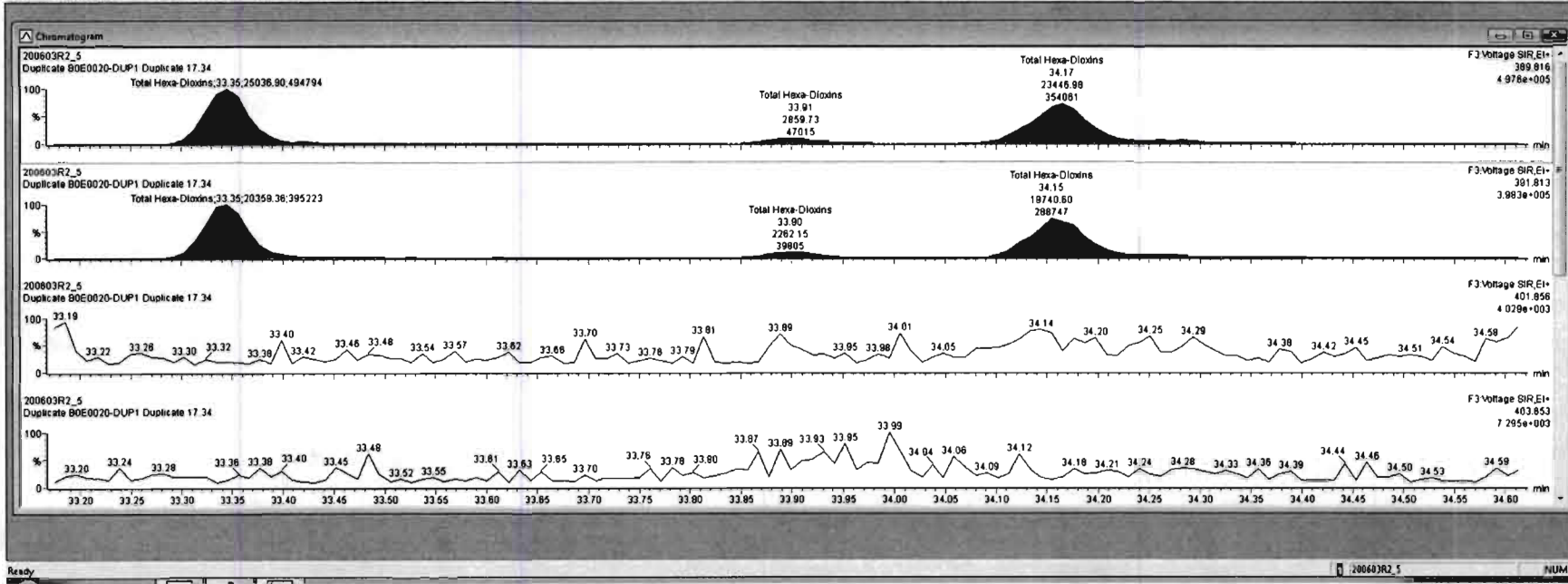


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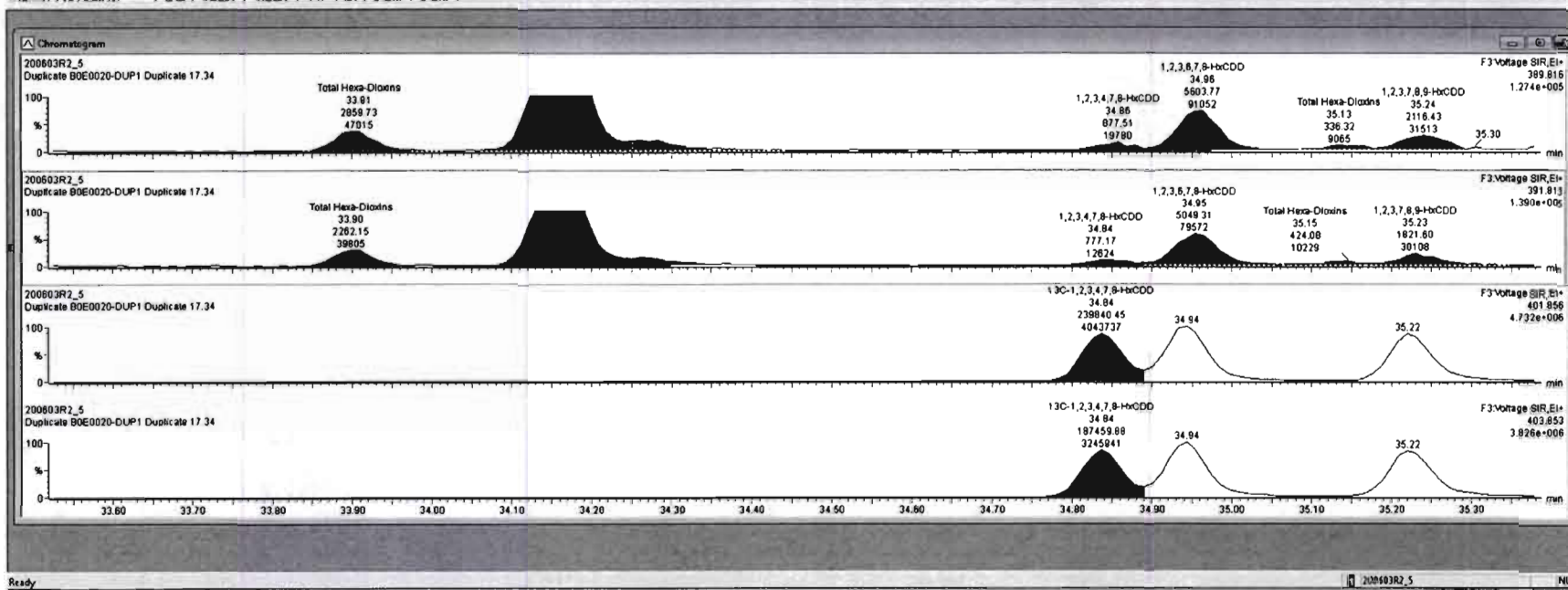
#	Name	Resp	RA	rvy	RVF	rdVcl	RT	RTI	Conc.	%Rec	DL	EMPC
39	Total Hexa-Dioxins				0.8963	9.997			3.66	0.0915	3.66	
40	Total Penta-Dioxins				0.9081	9.997			7.05	0.133	7.00	
41	Total Hexa-Dioxins				0.8923	9.997			51.1	0.396	52.4	
42	Total Hepta-Dioxins				0.8539	9.997			222	0.852	222	
43	Total Toxin Exposure				0.7610	9.997			7661	0.145	7661	

#	Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1	Total Hexa-Dioxins	33.35	2.504e4	2.036e4	1.23	NO	21.515	21.515
2	Total Hexa-Dioxins	33.91	2.890e3	2.262e3	1.28	NO	2.4275	2.4275
3	Total Hexa-Dioxins	34.17	2.345e4	1.874e4	1.25	NO	19.994	19.994
4	Total Hexa-Dioxins	34.28	1.497e3	9.466e2	1.59	YES	1.0049	0.00000
5	1,2,3,4,7,8-HxCDD	34.86	8.775e2	7.772e2	1.13	NO	0.74968	0.74968
6	1,2,3,6,7,8-HxCDF	34.98	4.656e3	4.081e3	1.10	NO	4.5563	4.5563



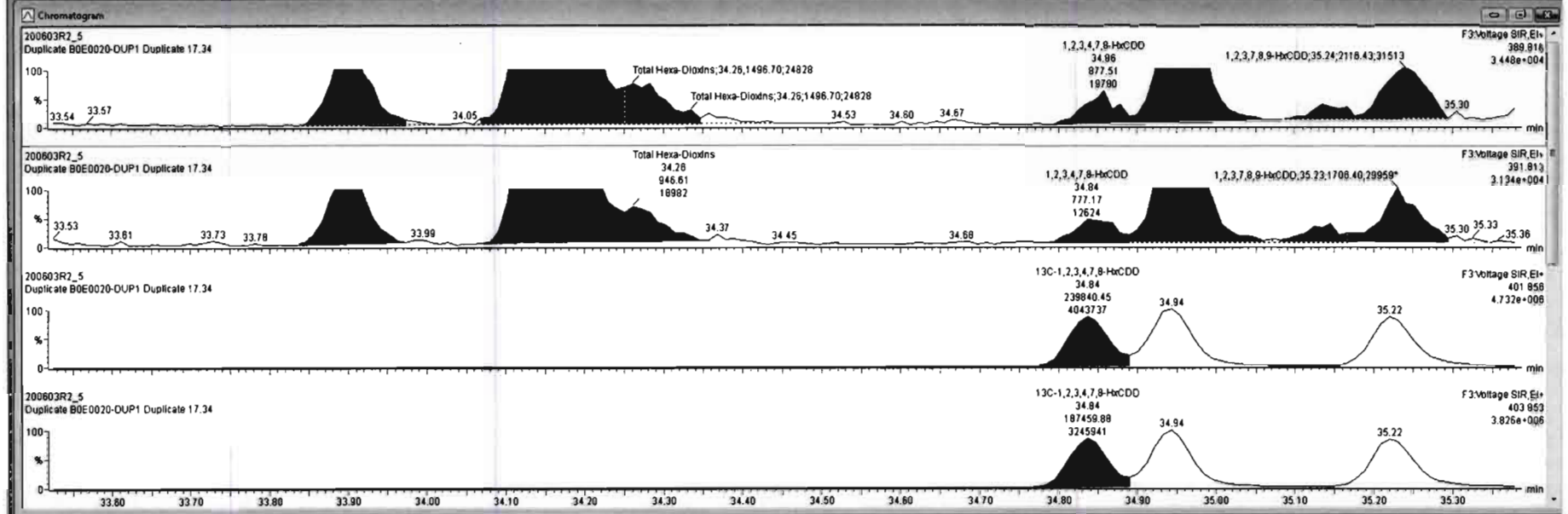
#	Name	Resp	RA	rvy	PPF	relVol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8983	9.997			3.66	0.0915	3.66	
40	Total Penta-Dioxins				0.9001	9.997			7.05	0.133	7.80	
41	Total Hexa-Dioxins				0.9023	9.997			51.1	0.398	52.4	
42	Total Hepta-Dioxins				0.8630	9.997			322	0.862	322	
43	Total Tetra-Dioxins				0.9007				322	0.862	322	

#	Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1	Total Hexa-Dioxins	33.35	2.504e4	2.036e4	1.23	NO	21.515	21.515
2	Total Hexa-Dioxins	33.91	2.860e3	2.262e3	1.26	NO	2.4275	2.4275
3	Total Hexa-Dioxins	34.17	2.345e4	1.874e4	1.25	NO	19.994	19.994
4	Total Hexa-Dioxins	34.26	1.497e3	9.485e2	1.58	YES	1.0049	0.00000
5	1,2,3,4,7,8-HxCDD	34.86	8.775e2	7.772e2	1.13	NO	0.74966	0.74966
6	1,2,3,7,8-HxCDD	34.96	4.802e3	4.606e3	1.14	NO	4.6416	4.6416



Name	Resp	RA	n/y	RRF	wtVol	RT	RR1	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8983	9.997			3.66	0.0615	3.66	
40 Total Penta-Dioxins				0.9081	9.997			7.05	0.133	7.90	
41 Total Hexa-Dioxins				0.8923	9.997			51.1	0.390	52.4	
42 Total Hepta-Dioxins				0.8629	9.997			322	0.852	322	
43 Total Tetra-Furans				0.7610	9.997			261	0.143	267	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.35	2.504e4	2.036e4	1.23	NO	21.515	21.515
2 Total Hexa-Dioxins	33.91	2.860e3	2.262e3	1.26	NO	2.4275	2.4275
3 Total Hexa-Dioxins	34.17	2.345e4	1.874e4	1.25	NO	19.994	19.994
4 Total Hexa-Dioxins	34.26	1.497e3	9.466e2	1.58	YES	1.0049	0.00000
5 1,2,3,4,7,8-HxCDD	34.86	8.775e2	7.772e2	1.13	NO	0.74966	0.74966
1 2 3 4 7 8-HxCDD	34.86	4.602e3	4.740e3	1.11	NO	4.4216	4.4216



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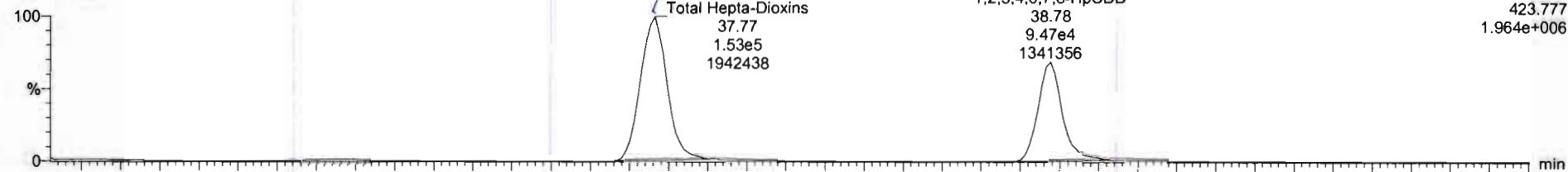
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Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

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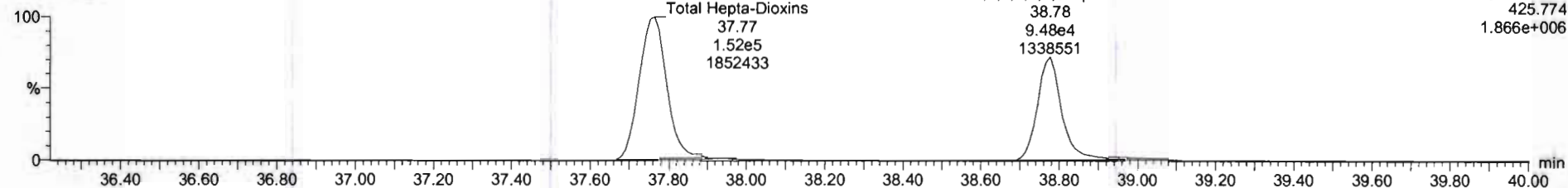
1,2,3,4,6,7,8-HpCDD

200603R2_5



F4:Voltage SIR,EI+
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1.964e+006

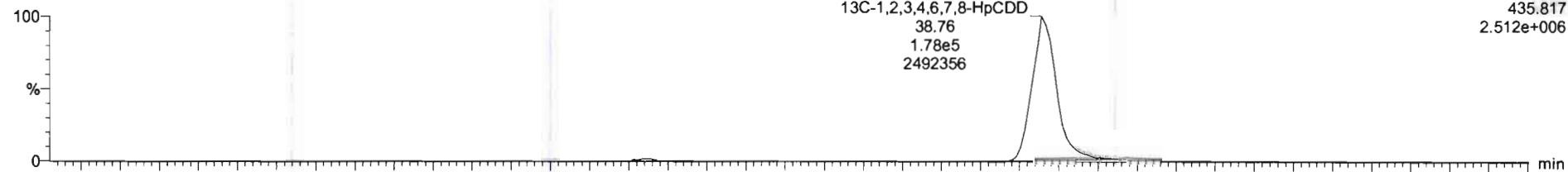
200603R2_5



F4:Voltage SIR,EI+
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1.866e+006

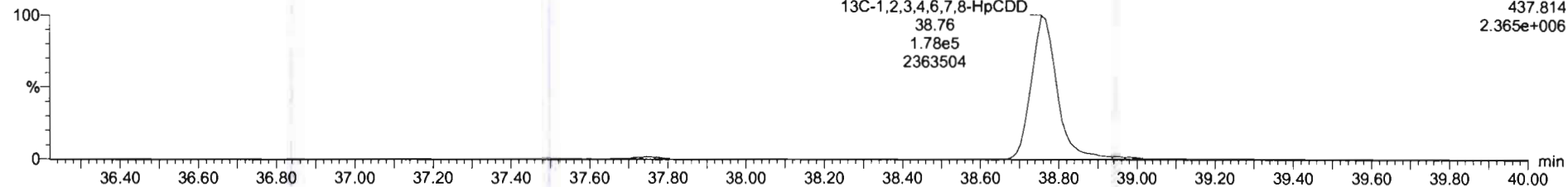
13C-1,2,3,4,6,7,8-HpCDD

200603R2_5



F4:Voltage SIR,EI+
435.817
2.512e+006

200603R2_5



F4:Voltage SIR,EI+
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2.365e+006

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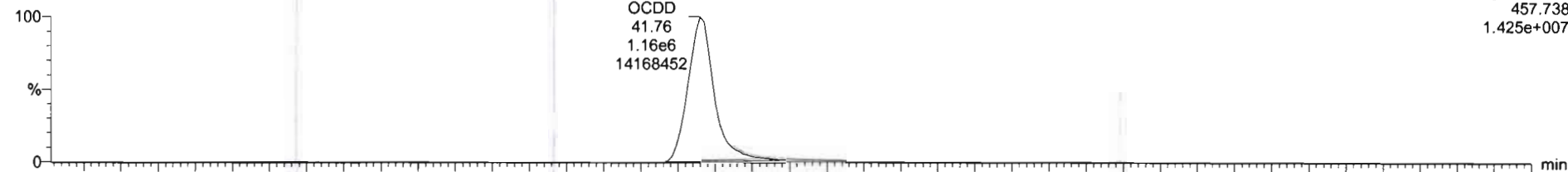
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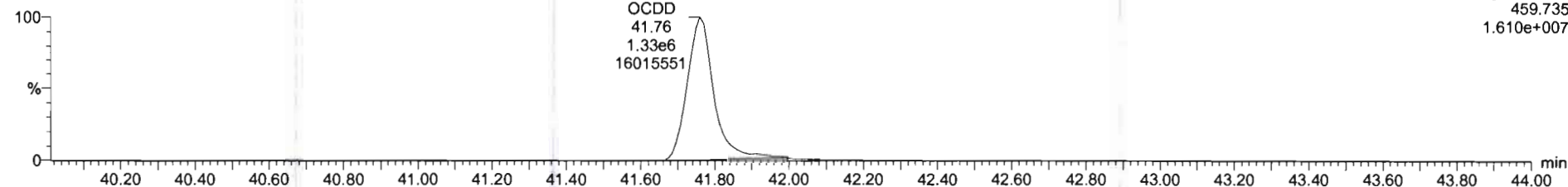
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OCDD

200603R2_5

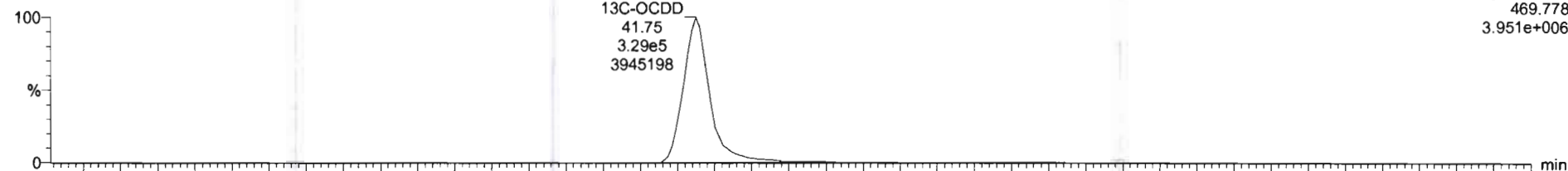


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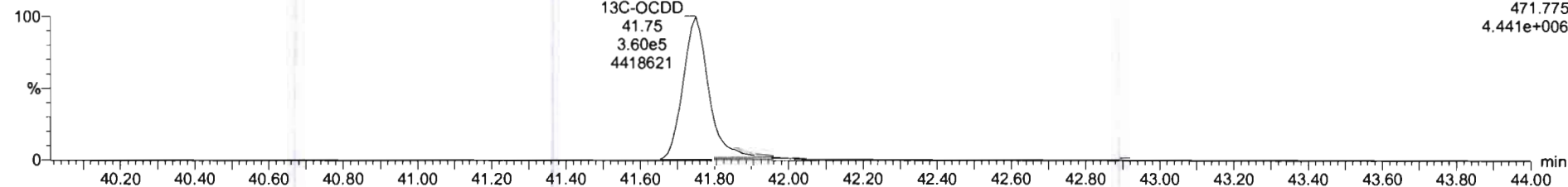


13C-OCDD

200603R2_5

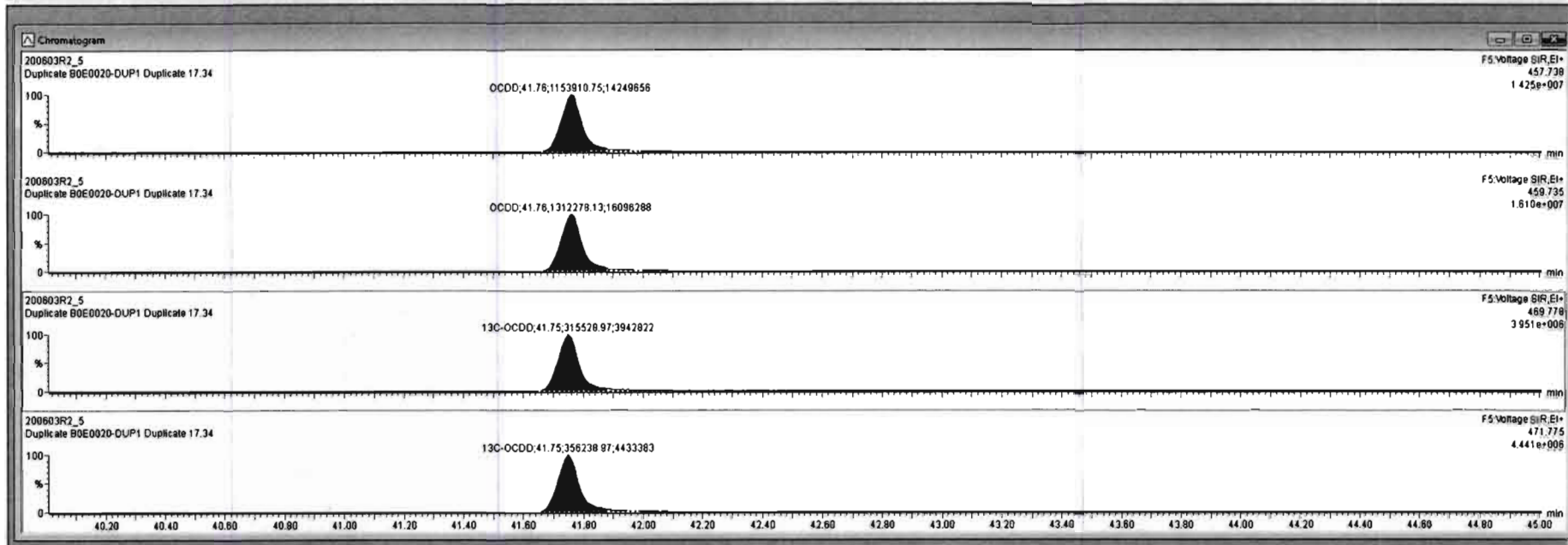


200603R2_5



Name	Resp	RA	rly	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
7	OCDD	2.67e6	0.88	NO	0.9136	9.997	41.78	1.000	1610	0.853	1610
8	2,3,7,8-TCDF	4.04e5	0.73	NO	0.7510	9.997	25.63	1.001	92.4	0.142	92.4
9	1,2,3,7,8-PeCDF	8.79e5	1.52	NO	0.8925	9.997	30.20	1.000	204	0.234	204
10	2,3,4,7,8-PeCDF	4.74e5	1.56	NO	0.9348	9.997	31.18	1.000	108	0.201	108

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



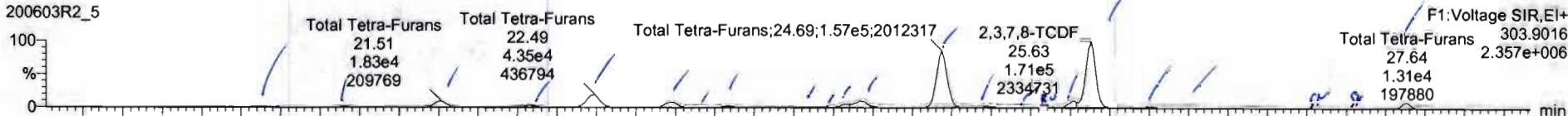
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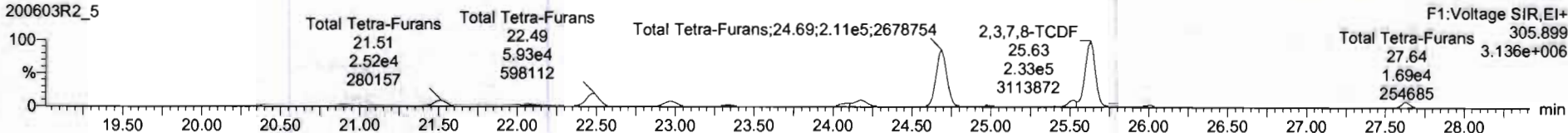
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2,3,7,8-TCDF

200603R2_5

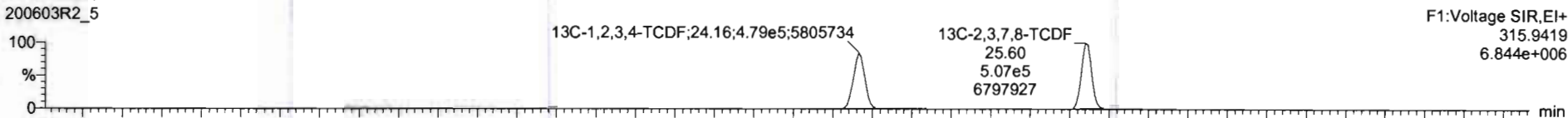


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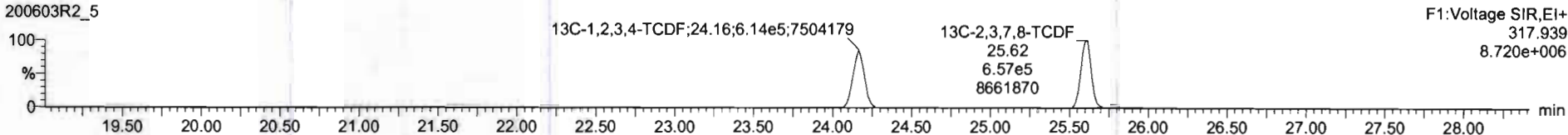


13C-2,3,7,8-TCDF

200603R2_5

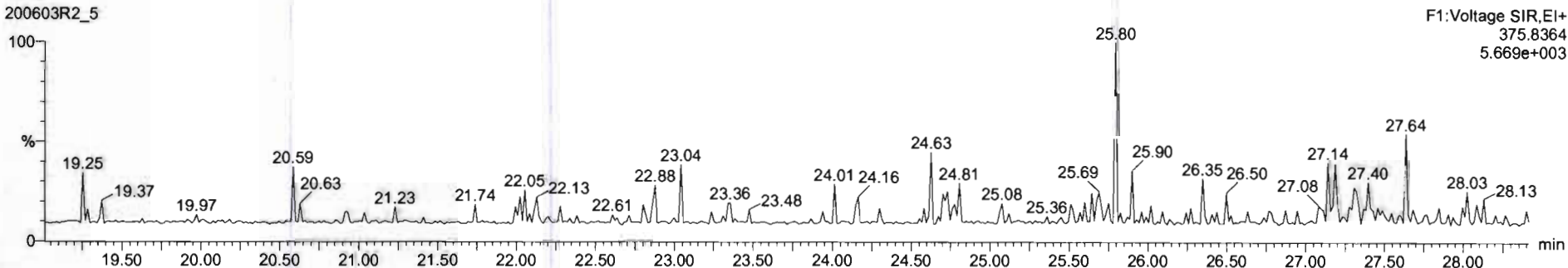


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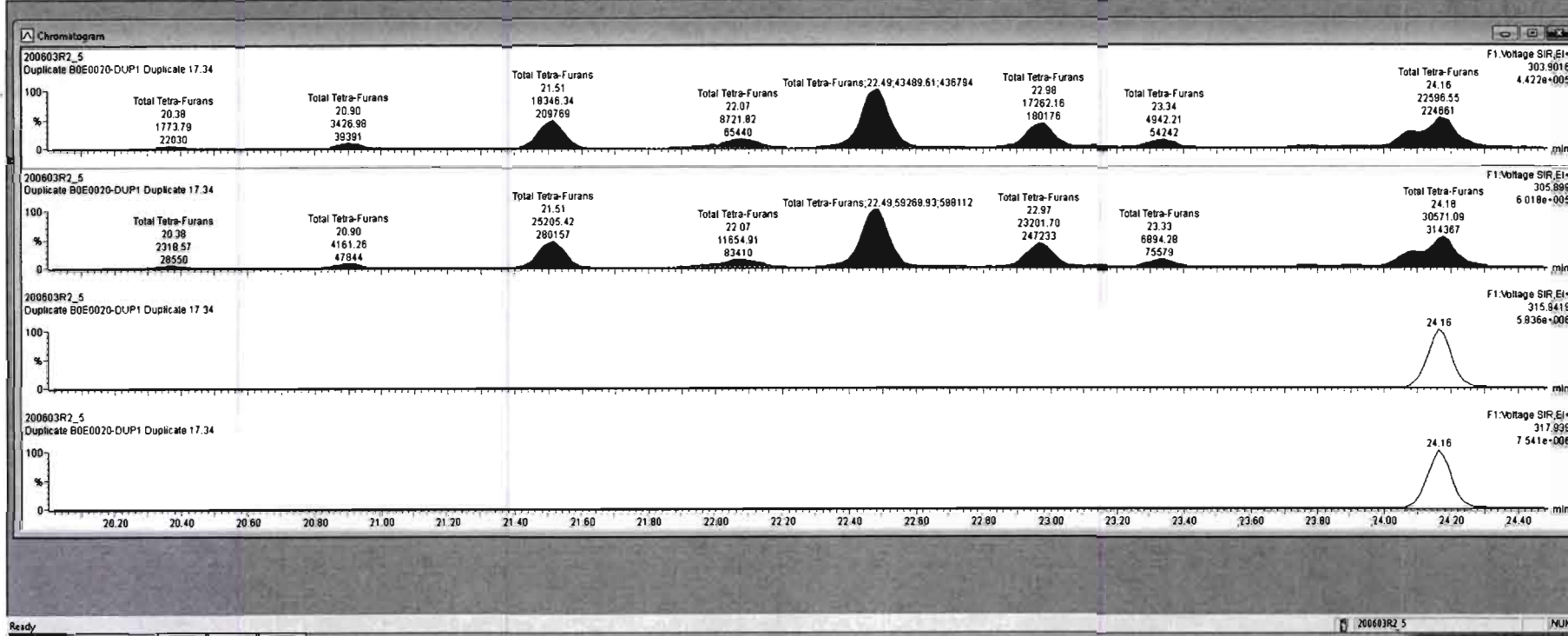
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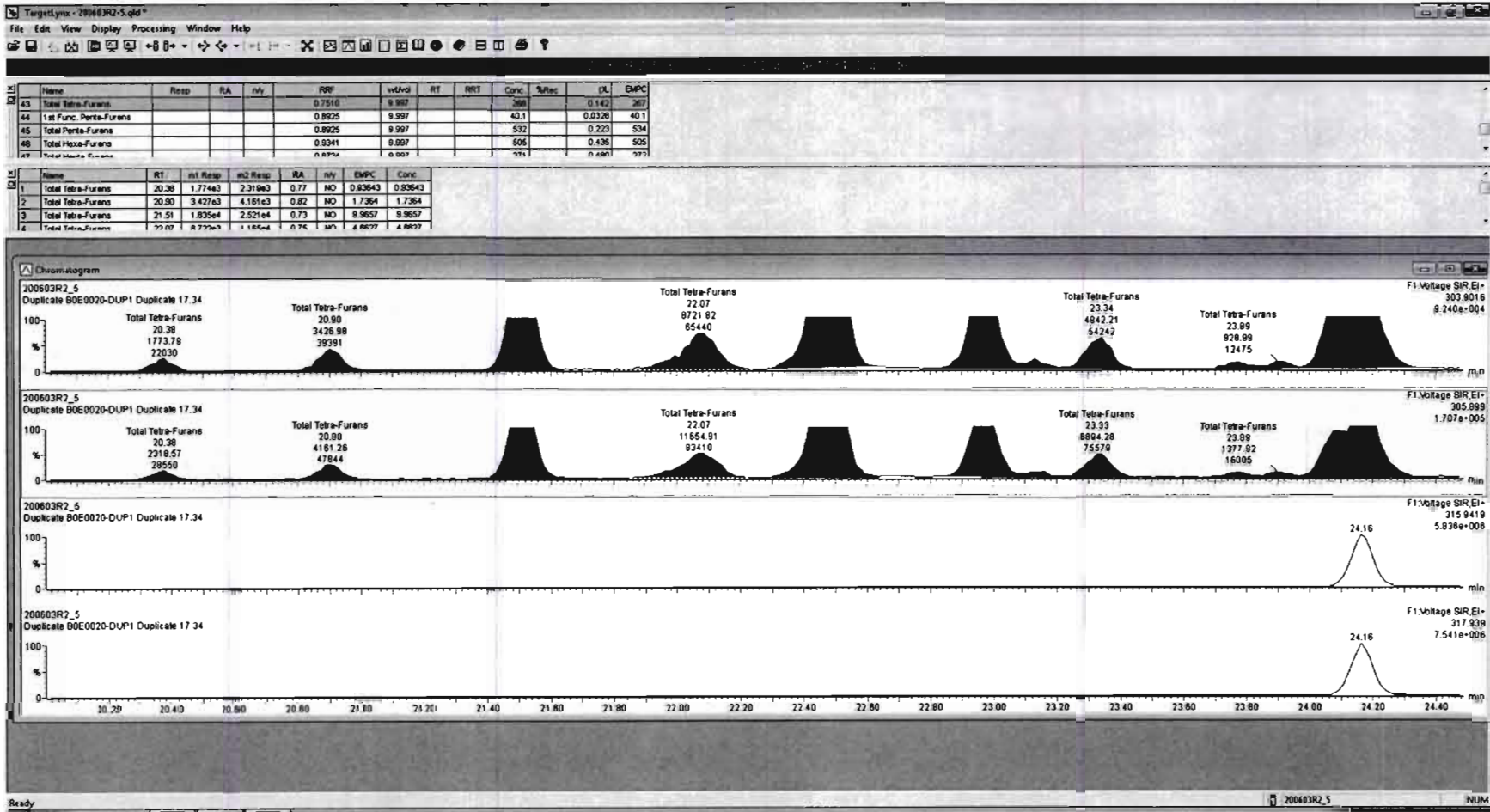
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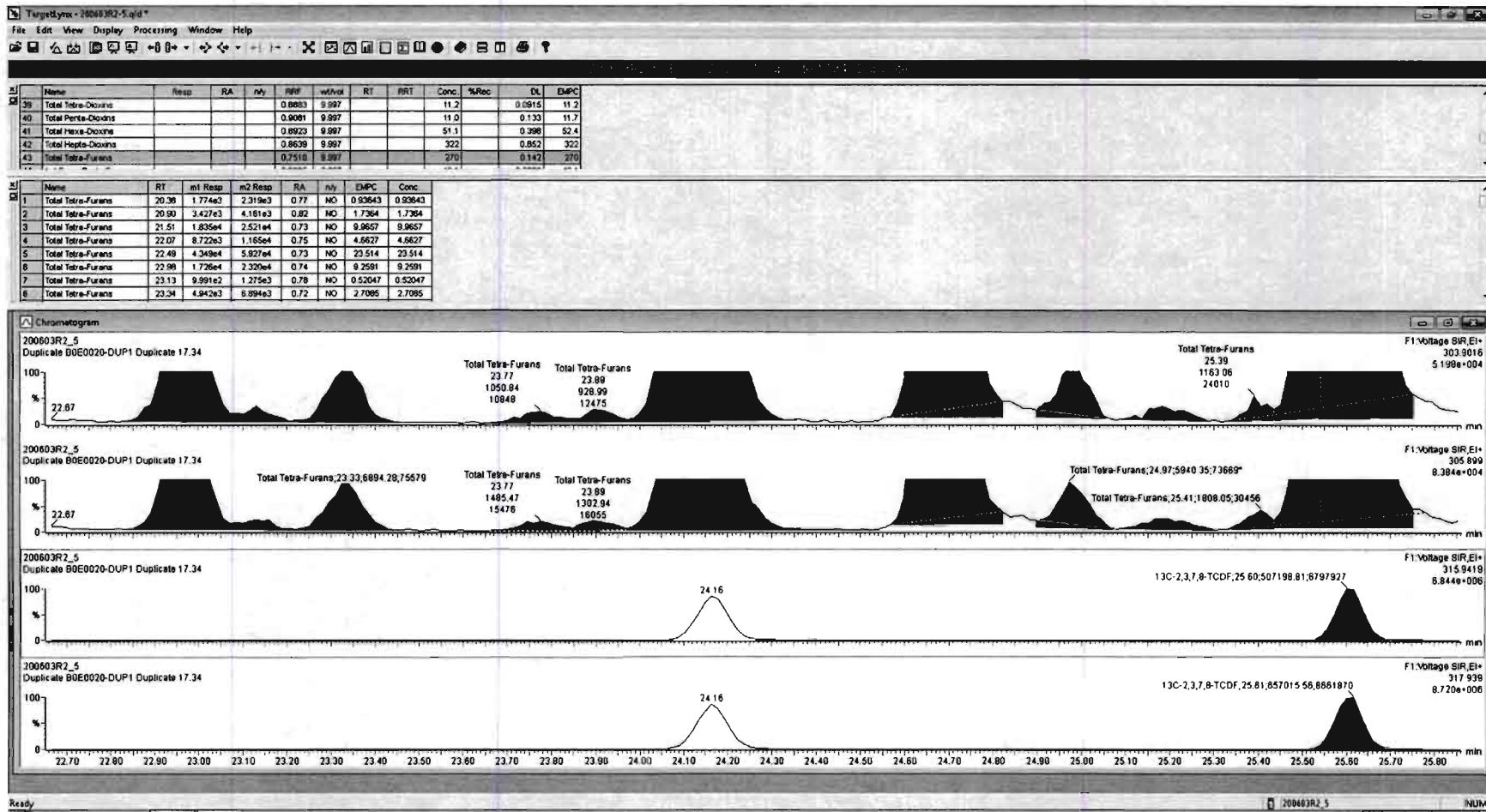


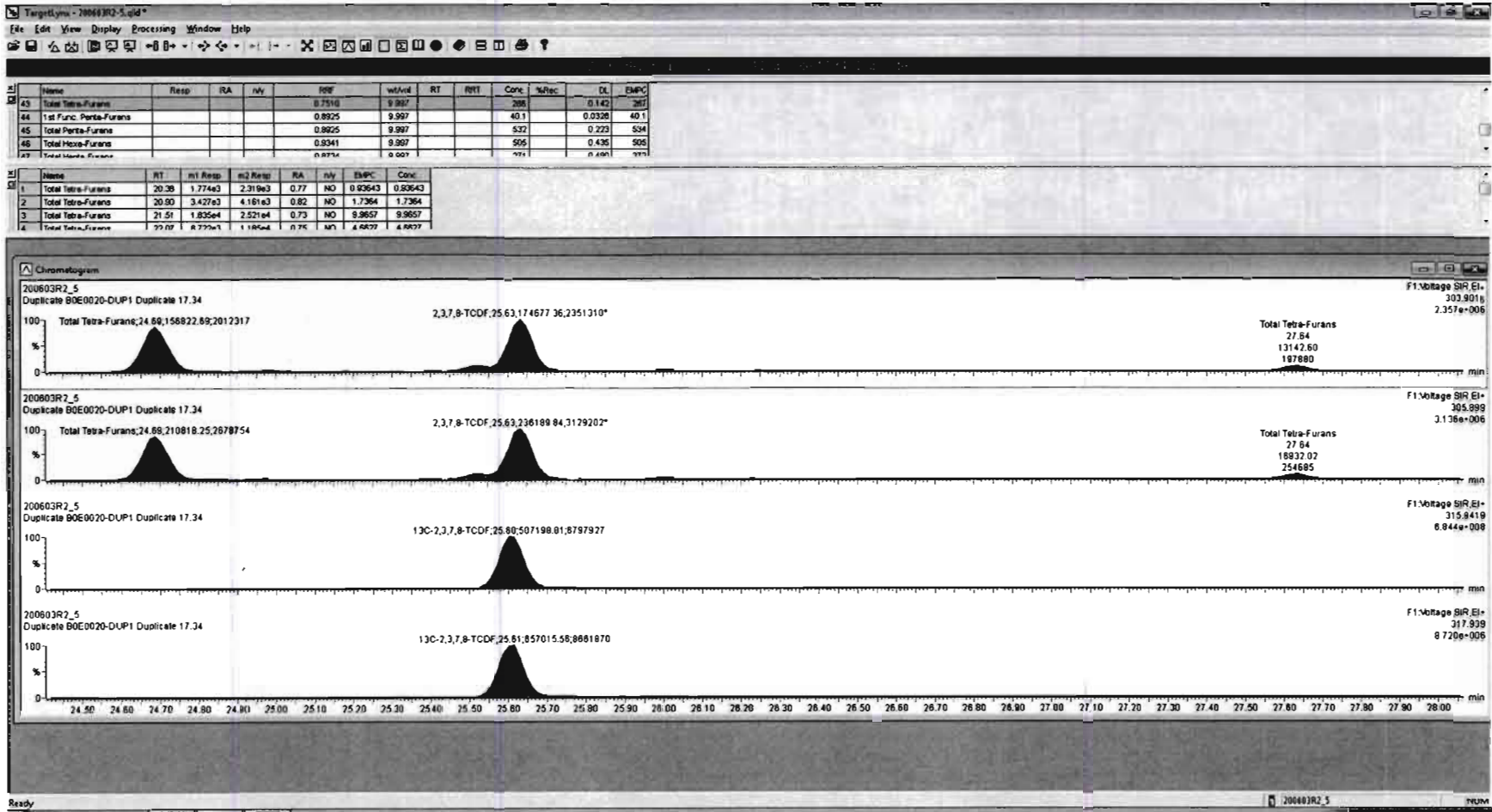
ID	Name	Resp	RA	n/y	RRF	wtAdj	INT	RR1	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7510	9.997			260	0.142	267	
44	1st Func. Penta-Furans				0.8925	9.997			40.1	0.0328	40.1	
45	Total Penta-Furans				0.8925	9.997			532	0.223	534	
46	Total Hexa-Furans				0.9341	9.997			505	0.435	505	
47	Total Mono-Furans				0.8734	0.007			774	0.486	777	

ID	Name	RT	ret Resp	in2 Resp	RA	n/y	EMPC	Conc
1	Total Tetra-Furans	20.38	1.774e3	2.319e3	0.77	NO	0.93643	0.93643
2	Total Tetra-Furans	20.80	3.427e3	4.181e3	0.82	NO	1.7364	1.7364
3	Total Tetra-Furans	21.51	1.835e4	2.521e4	0.73	NO	9.9657	9.9657
4	Total Tetra-Furans	22.07	8.773e3	1.165e4	0.74	NO	4.8677	4.8677



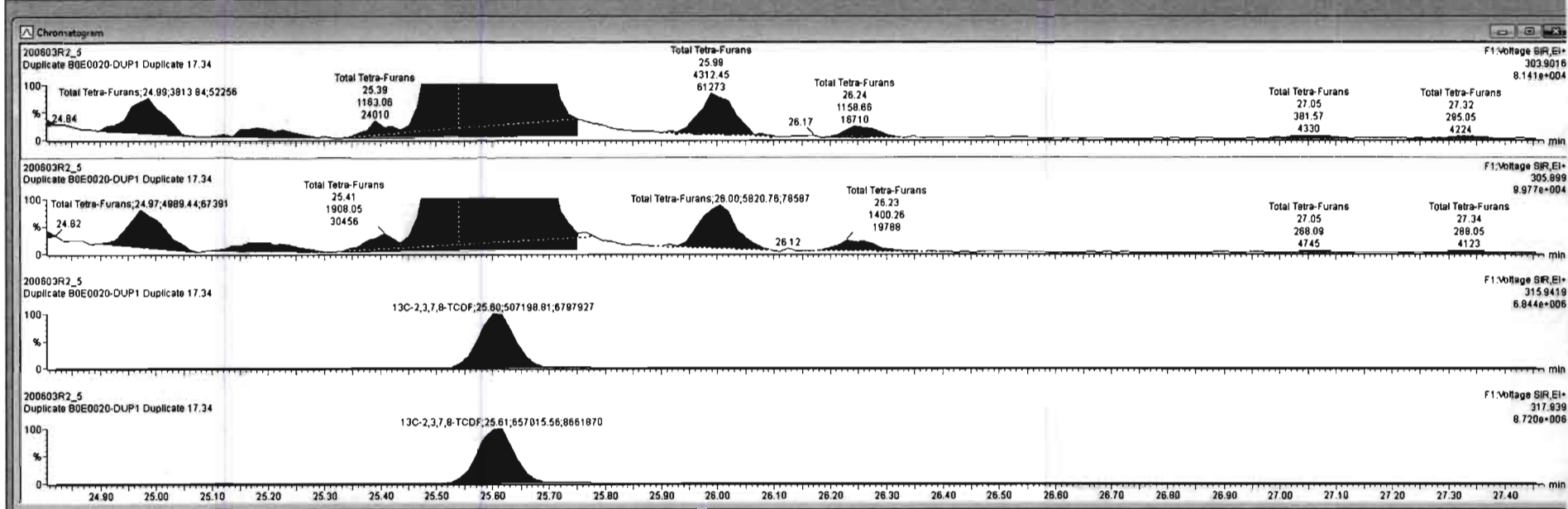


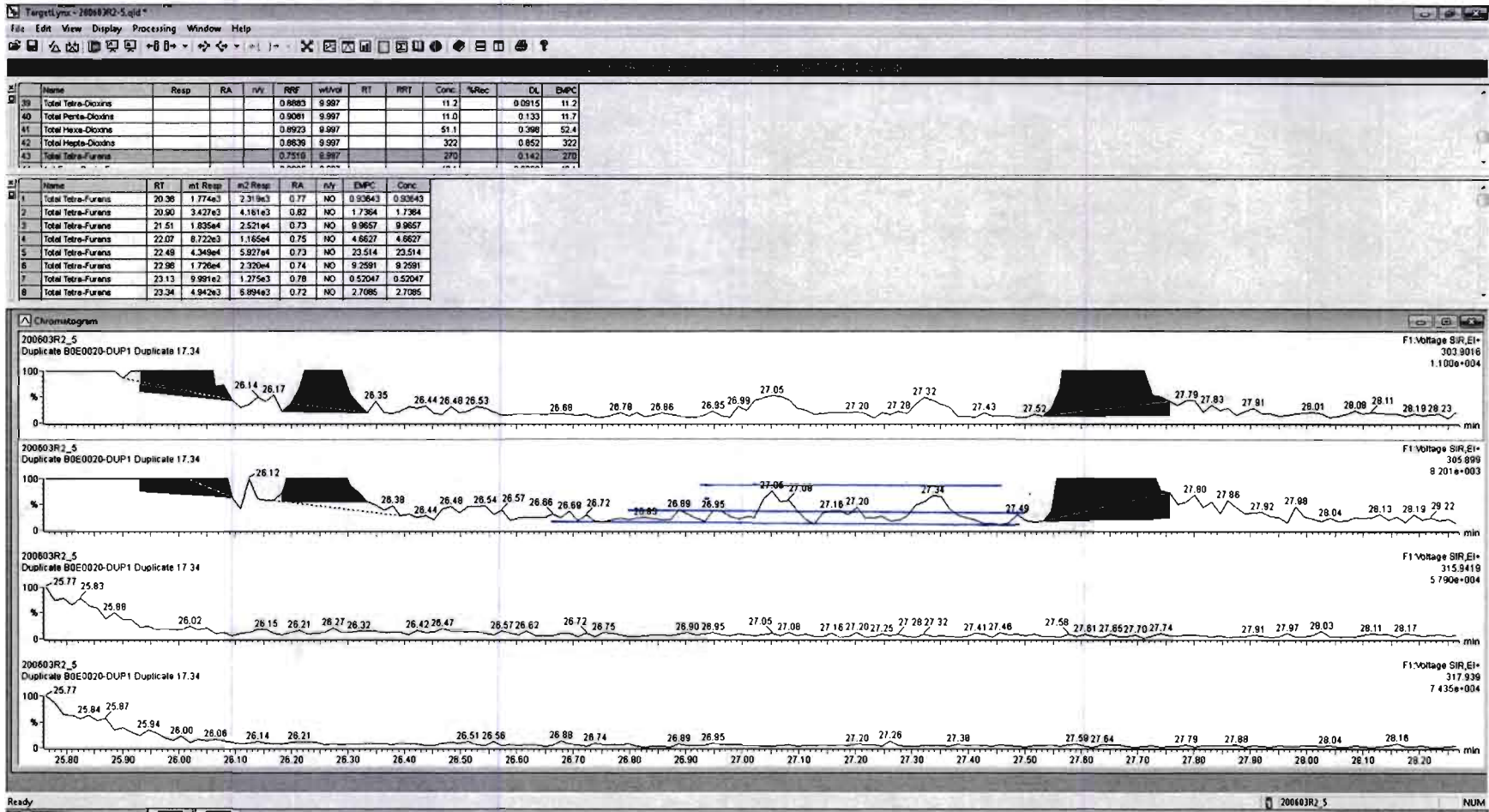


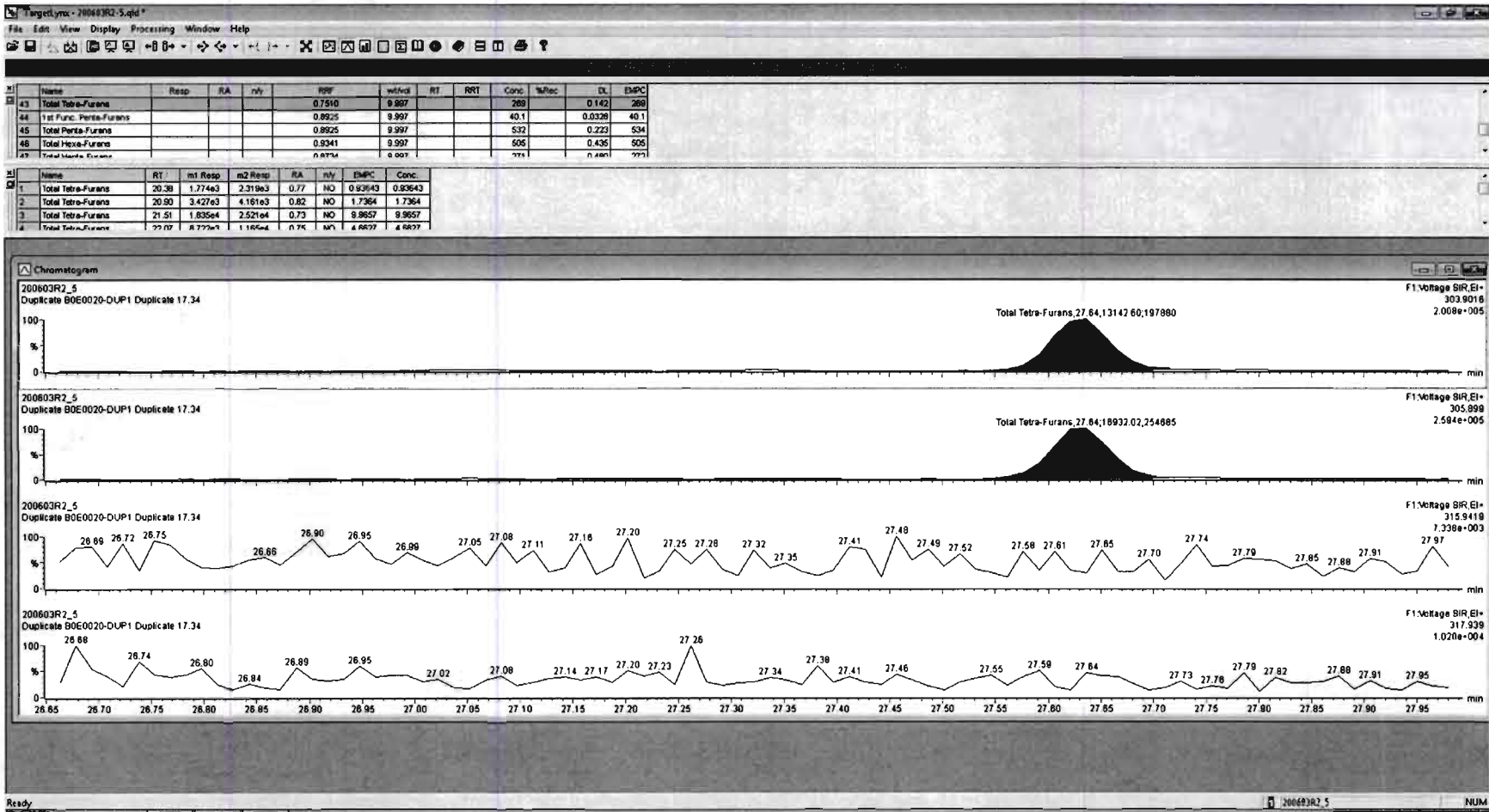


Name	Resp	RA	rly	RF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7510	9.997			269	0.142	270	
44 1st Func. Penta-Furans				0.8925	9.997			40.1	0.0328	40.1	
45 Total Penta-Furans				0.8925	9.997			532	0.223	534	
48 Total Hexa-Furans				0.9341	9.997			505	0.435	505	
27 Total Hepta-Furans				0.8734	9.997			771	0.461	771	

Name	RT	m1 Resp	m2 Resp	RA	rly	EMPC	Conc.
1 Total Tetra-Furans	20.38	1.774e3	2.319e3	0.77	NO	0.93643	0.93643
2 Total Tetra-Furans	20.90	3.427e3	4.181e3	0.82	NO	1.7364	1.7364
3 Total Tetra-Furans	21.51	1.835e4	2.521e4	0.73	NO	9.9657	9.9657
4 Total Tetra-Furans	22.07	8.772e3	1.185e4	0.75	NO	4.6827	4.6827







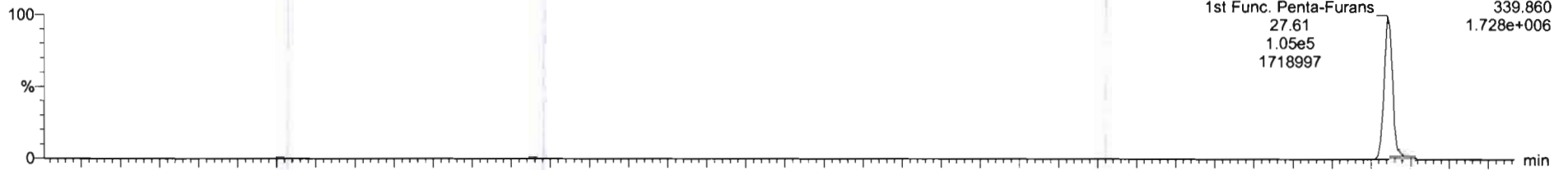
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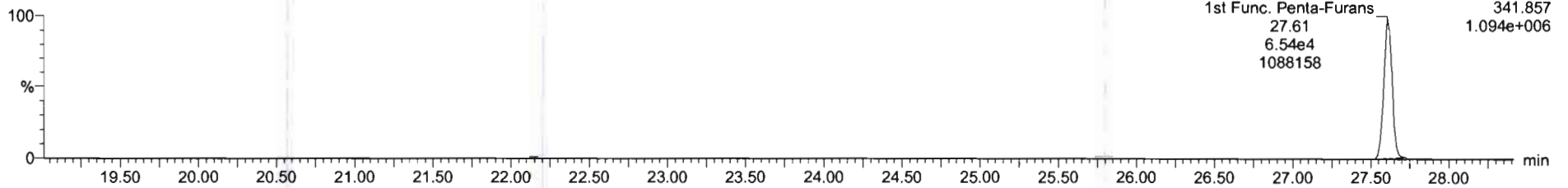
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1st Func. Penta-Furans

200603R2_5

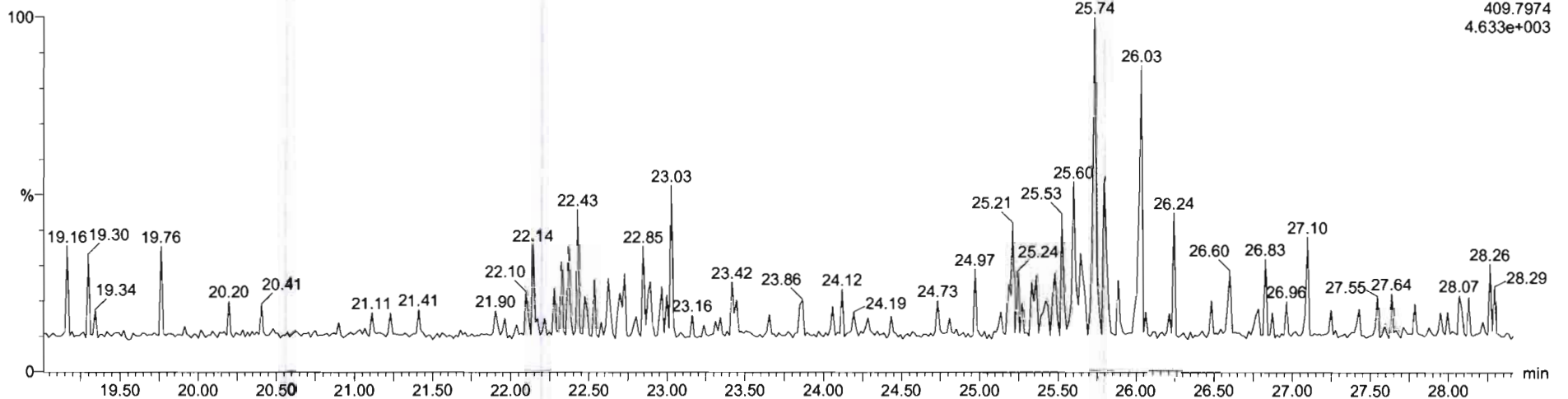


200603R2_5



DPE6

200603R2_5



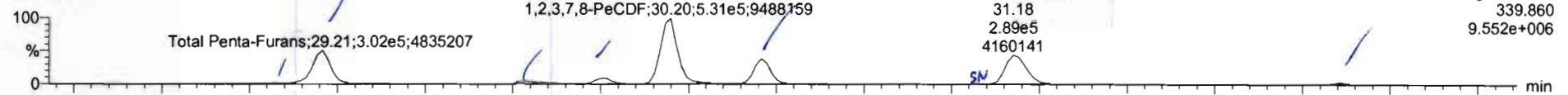
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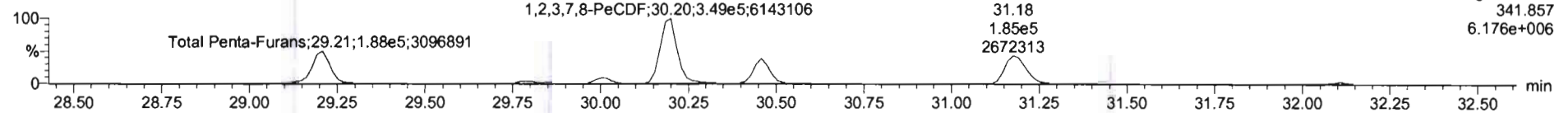
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1,2,3,7,8-PeCDF

200603R2_5

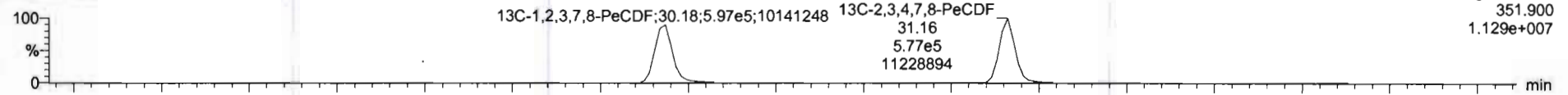


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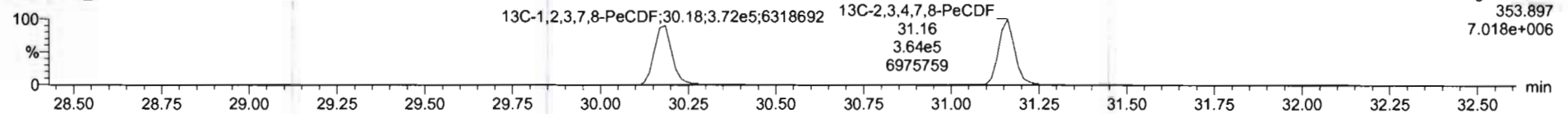


13C-1,2,3,7,8-PeCDF

200603R2_5

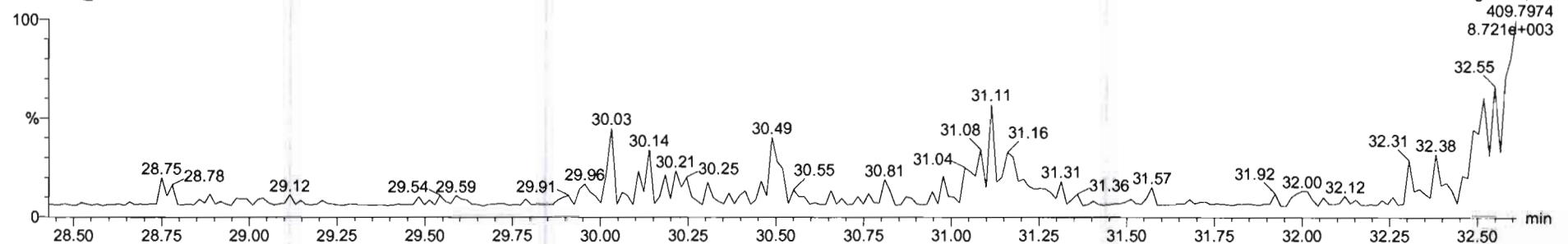


200603R2_5



DPE2

200603R2_5

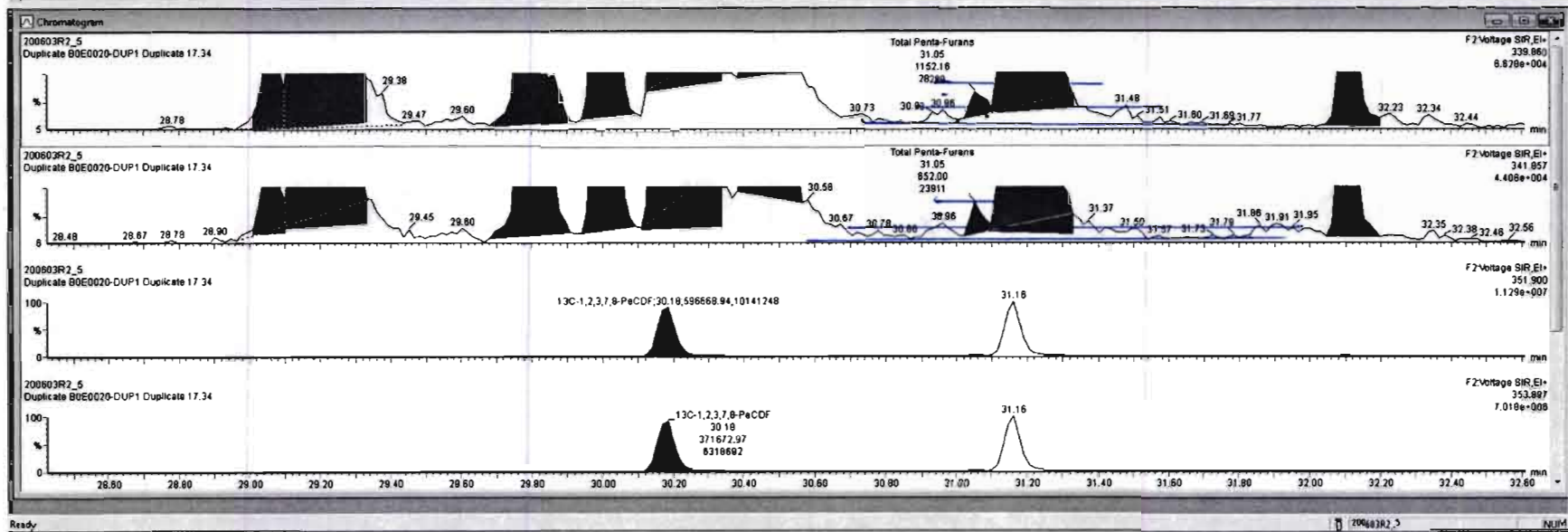


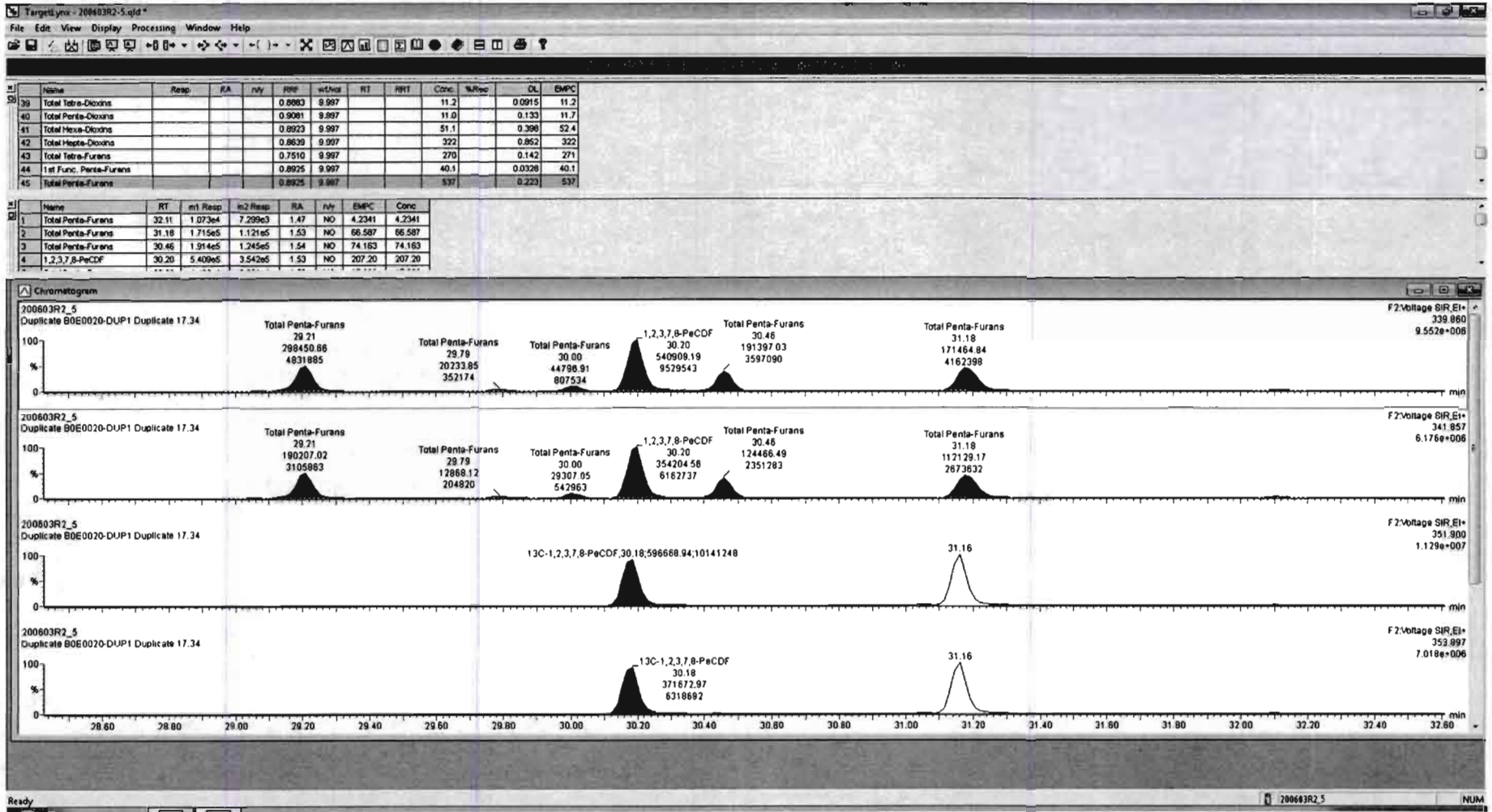
Targetlynx - 20003R2-5.qld*

File Edit View Display Processing Window Help

#	Name	Resp	RA	RV	FFP	ntAcid	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tolu-Furans				0.7510	9.997			269		0.142	269
44	1st Func. Penta-Furans				0.8925	9.997			40.1		0.0338	40.1
45	Total Penta-Furans				0.8925	9.997			34		0.272	534
46	Total Hexa-Furans				0.9341	9.997			596		0.435	505
47	Total Hepta-Furans				0.6754	9.997			571		0.461	571

#	Name	RT	m1 Resp	m2 Resp	RA	RV	EMPC	Conc
1	Total Penta-Furans	29.06	6.089e3	3.406e3	1.76	NO	3.2416	2.2416
2	Total Penta-Furans	29.21	7.985e5	1.902e5	1.57	NO	114.73	114.73
3	Total Penta-Furans	29.79	7.289e4	1.471e4	1.56	NO	8.9243	8.9243
4	Total Penta-Furans	30.00	4.480e4	2.931e4	1.53	NO	17.398	17.398
5	1,2,3,7,8-PeCDF	30.20	5.309e5	3.487e5	1.62	NO	203.53	203.53
6	Total Penta-Furans	30.46	1.914e5	1.245e5	1.54	NO	74.162	74.162
7	Total Penta-Furans	31.05	1.152e3	8.520e2	1.36	NO	0.47057	0.47057
8	1,2,3,4,7,8-PeCDF	31.10	2.867e5	1.853e5	1.56	NO	107.81	107.81
9	Total Penta-Furans	32.11	1.136e4	7.644e3	1.49	NO	4.4629	4.4629

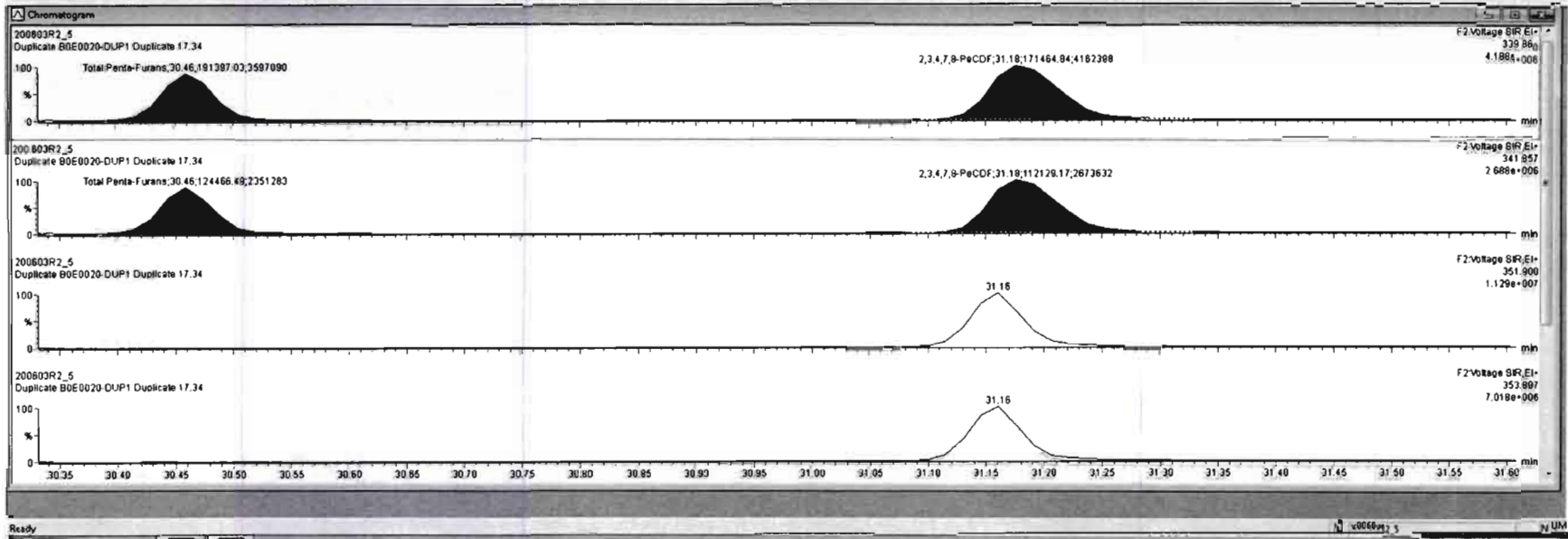




Targetlyn - 200603R2_5.qld
 File Edit View Display Processing Window Help

Name	Resp	RA	rly	RFI	VolVol	RT	RRT	Conc	%RAC	DL	EMPC
46 Total Penta-Furans				0.9925	0.207			537		0.223	537
46 Total Hexa-Furans				0.9341	0.207			489		0.435	490
47 Total Hepta-Furans				0.8734	0.997			273		0.480	273

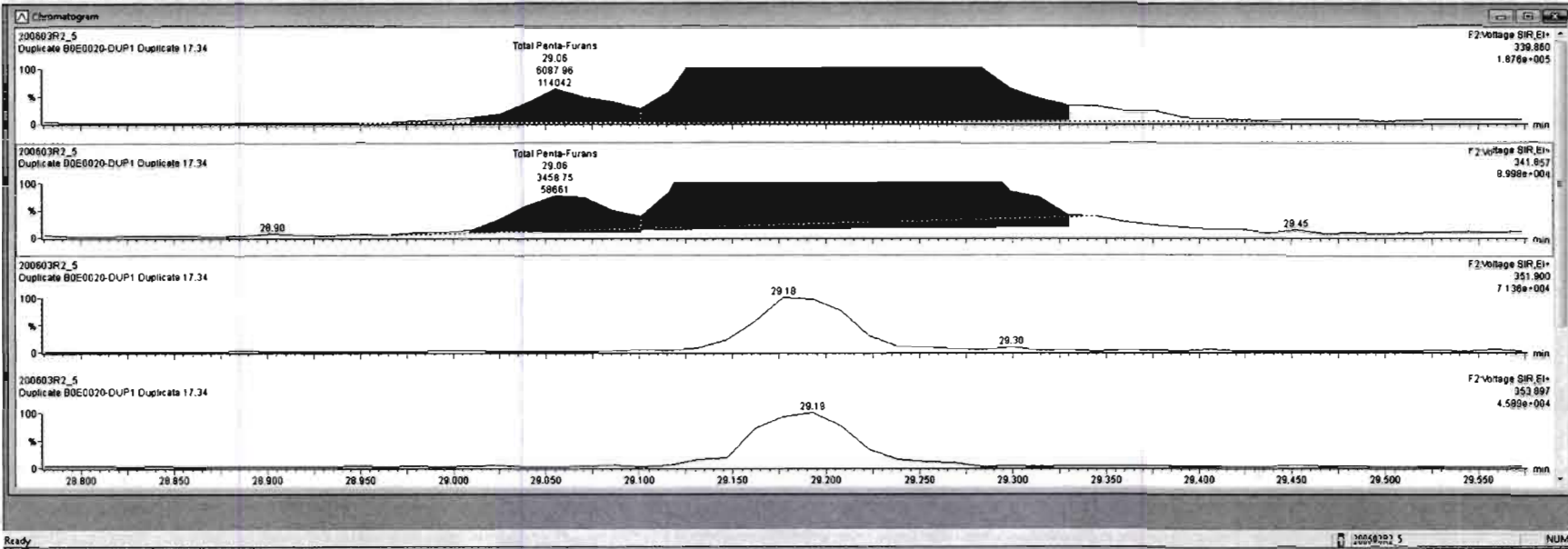
Name	RT	m1 Resp	m2 Resp	RA	rly	EMPC	Conc
1 Total Penta-Furans	29.06	6.088e3	3.459e3	1.76	NO	2.2415	2.2415
2 Total Penta-Furans	29.21	2.985e5	1.902e5	1.57	NO	114.73	114.73
3 Total Penta-Furans	29.79	2.023e4	1.267e4	1.57	NO	7.7722	7.7722
4 Total Penta-Furans	30.00	4.480e4	2.921e4	1.53	NO	17.398	17.399
5 1,2,3,7,8-PeCDF	30.20	5.409e5	3.542e5	1.53	NO	207.20	207.20
6 Total Penta-Furans	30.46	1.914e5	1.245e5	1.54	NO	74.163	74.163
7 2,3,4,7,8-PeCDF	31.18	1.215e5	1.121e5	1.53	NO	64.502	64.502
8 Total Penta-Furans	31.19	1.164e5	7.254e4	1.81	NO	44.373	44.373
9 Total Penta-Furans	32.11	1.073e4	7.299e3	1.47	NO	4.2341	4.2341

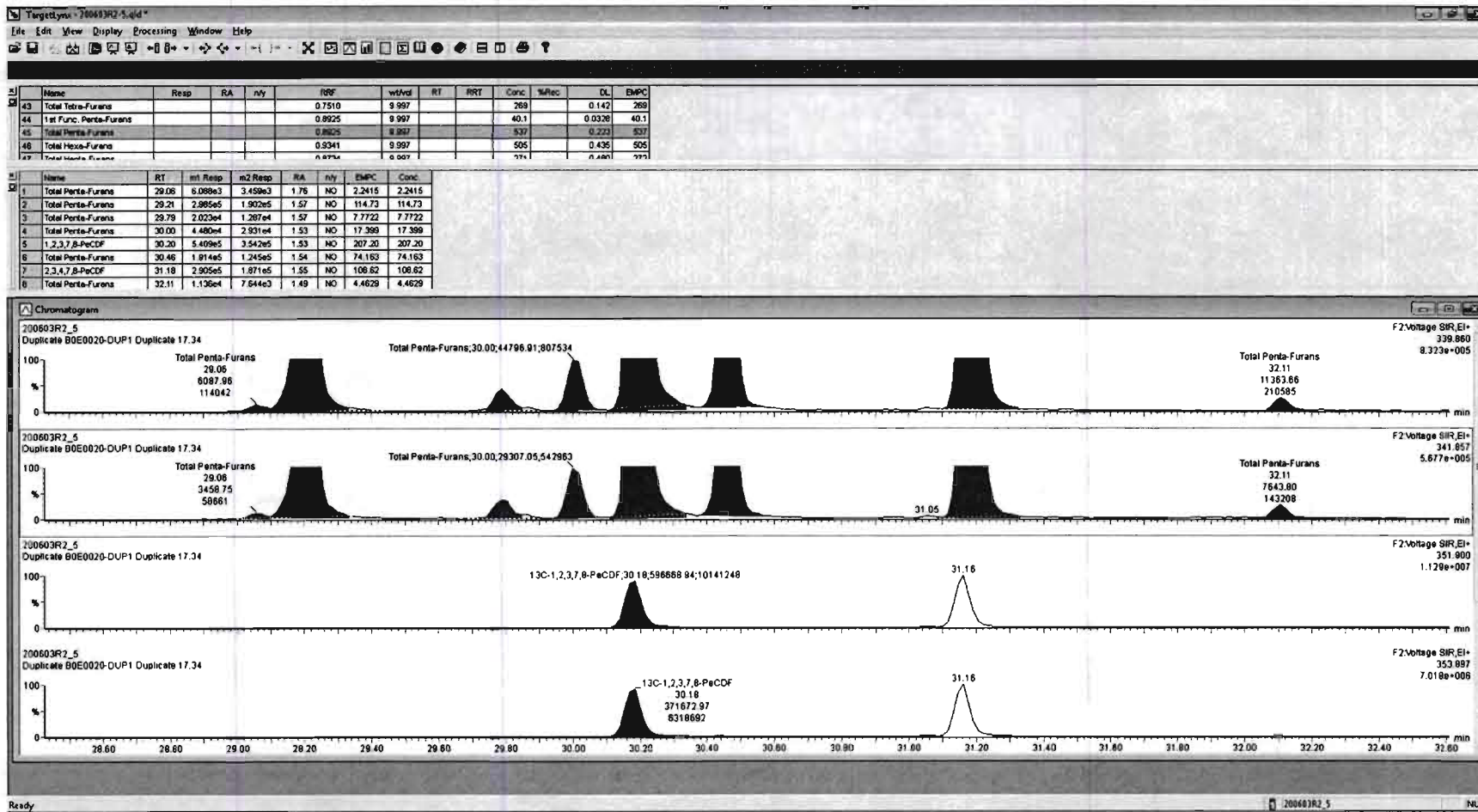


Targetlynx - 200603R2-5.qld
 File Edit View Display Processing Window Help

Name	Resp	RA	n/y	RFV	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7510	9.997			269	0.142	269	
44 1st Furc. Penta-Furans				0.8925	9.997			40.1	0.0328	40.1	
45 Total Penta-Furans				0.8925	9.997			538	0.223	538	
46 Total Hexa-Furans				0.0341	9.997			505	0.436	505	
47 Total Hepta-Furans				0.0734	0.667			174	0.001	174	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	29.06	6.089e3	3.459e3	1.76	NO	2.2415	2.2415
2 Total Penta-Furans	29.21	2.985e5	1.902e5	1.57	NO	114.73	114.73
3 Total Penta-Furans	29.78	2.280e4	1.471e4	1.58	NO	8.8243	8.8243
4 Total Penta-Furans	30.00	4.480e4	2.831e4	1.53	NO	17.399	17.399
5 1,2,3,7,8-PeCDF	30.20	5.409e5	3.542e5	1.53	NO	207.20	207.20
6 Total Penta-Furans	30.48	1.914e5	1.245e5	1.54	NO	74.163	74.163
7 2,3,4,7,8-PeCDF	31.18	2.905e5	1.871e5	1.56	NO	106.62	106.62
8 Total Penta-Furans	32.11	1.136e4	7.644e3	1.48	NO	4.4629	4.4629



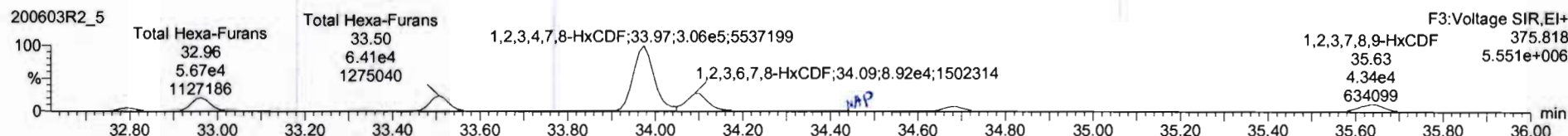
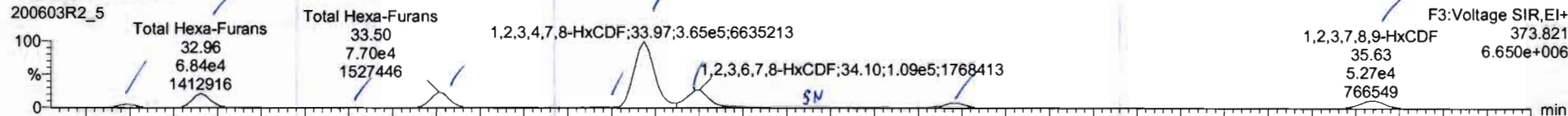


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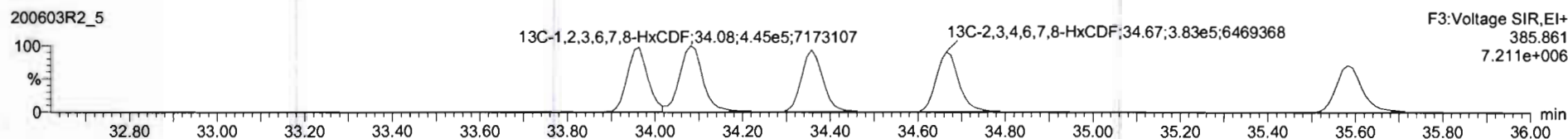
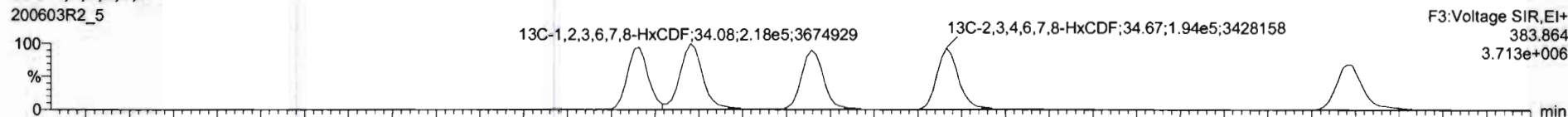
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Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

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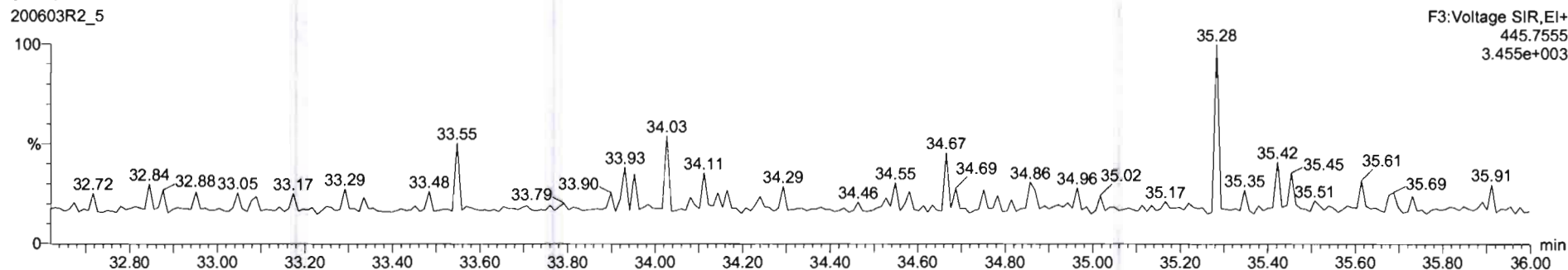
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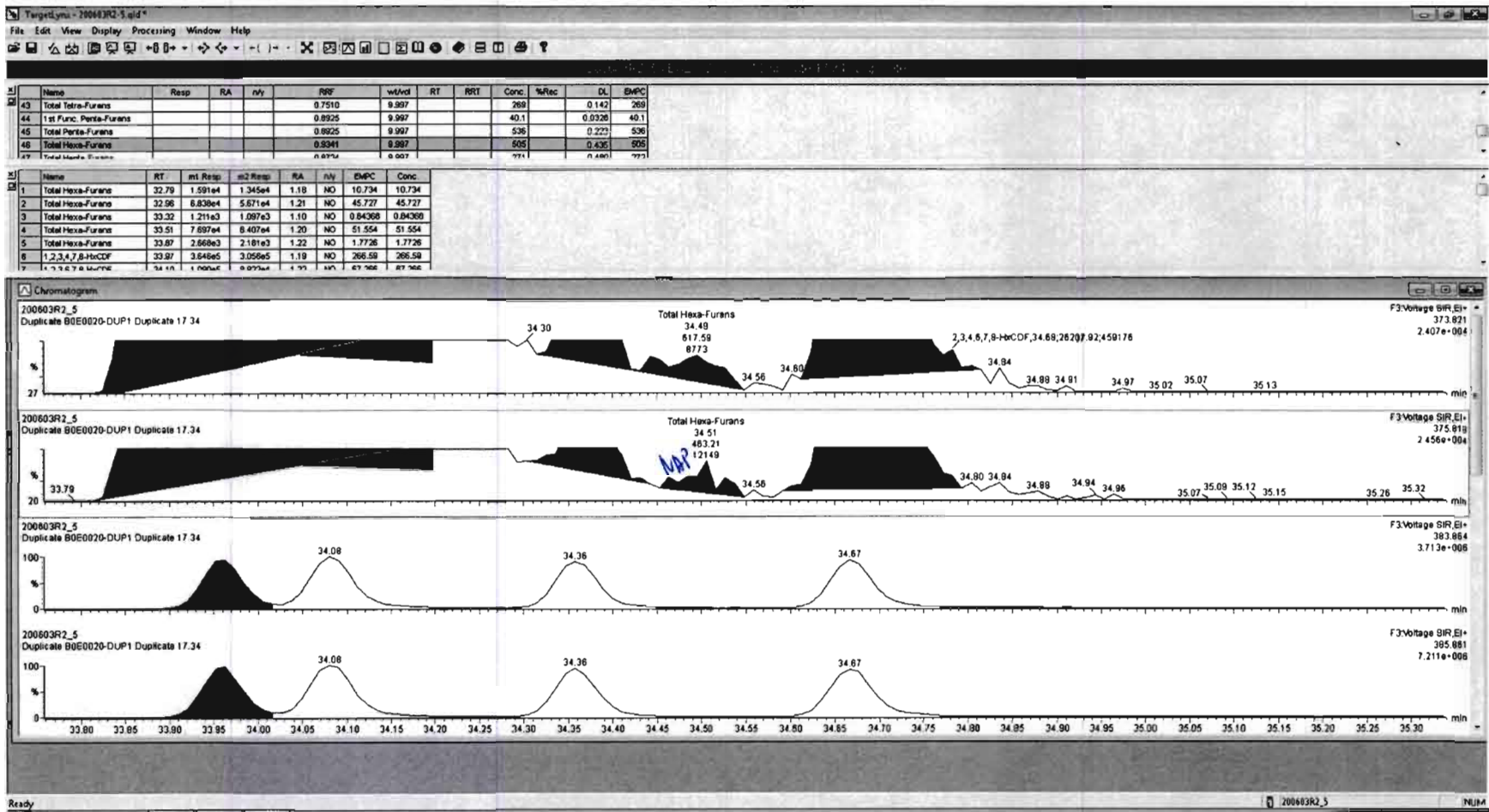


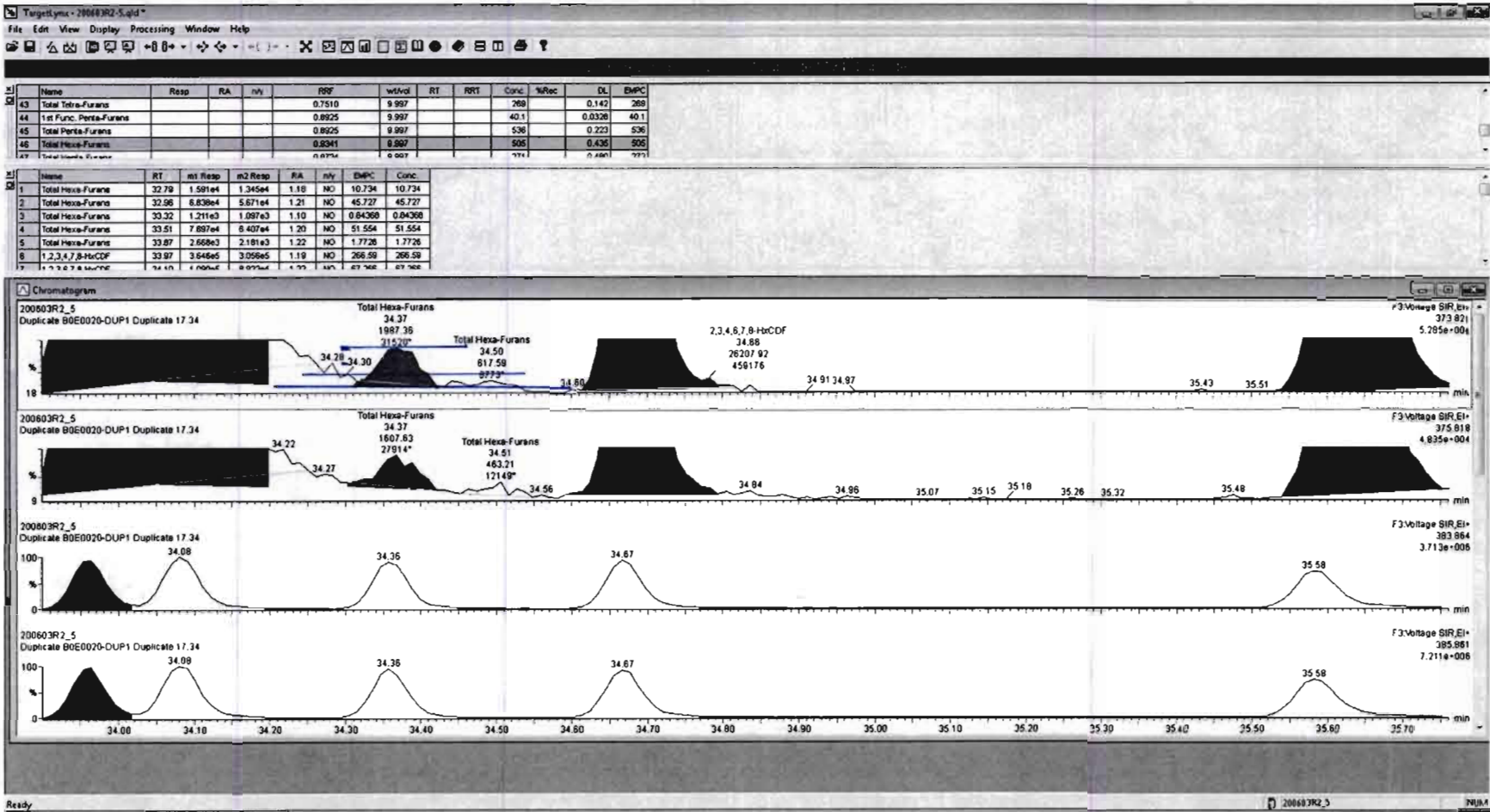
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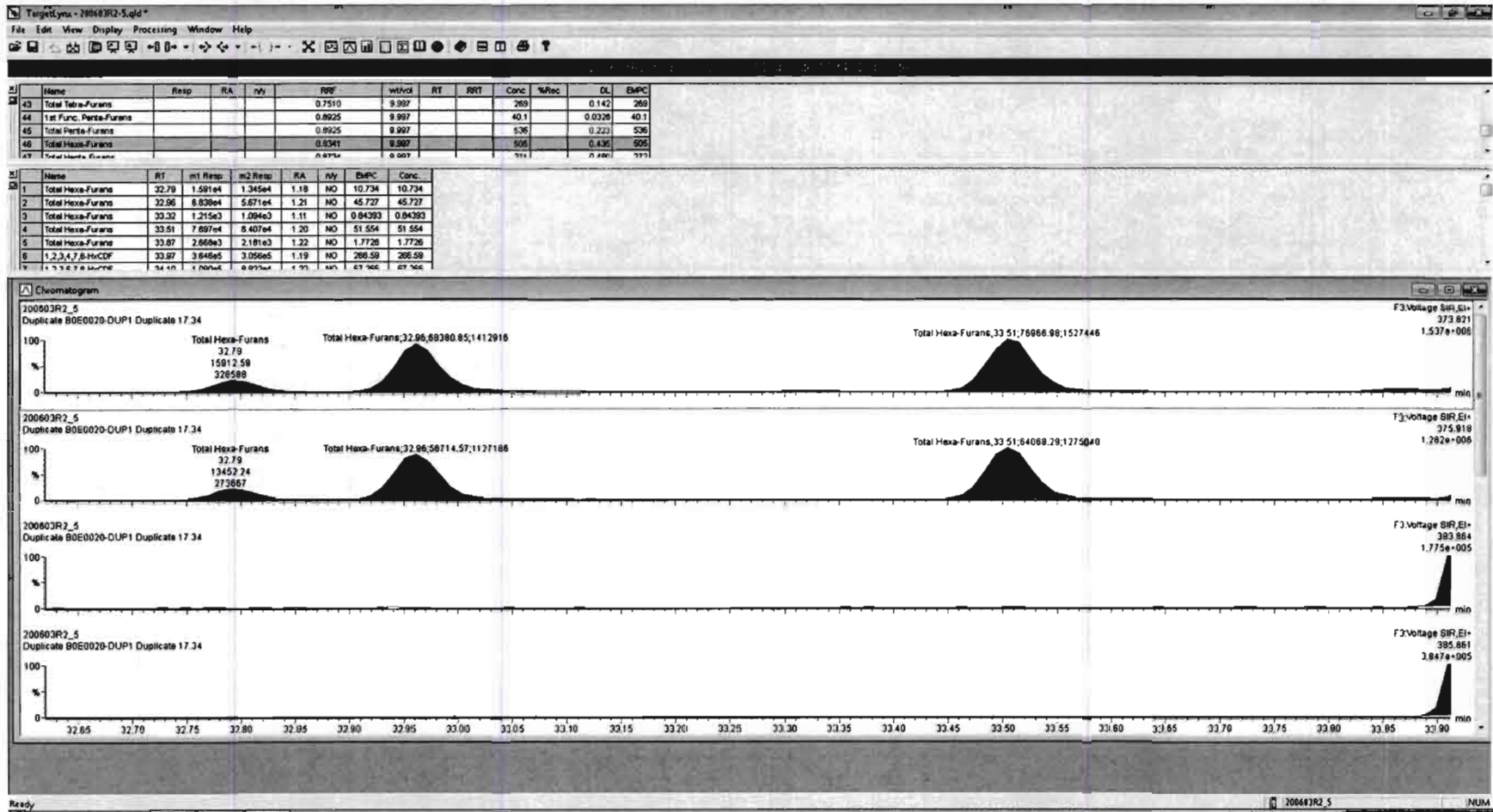


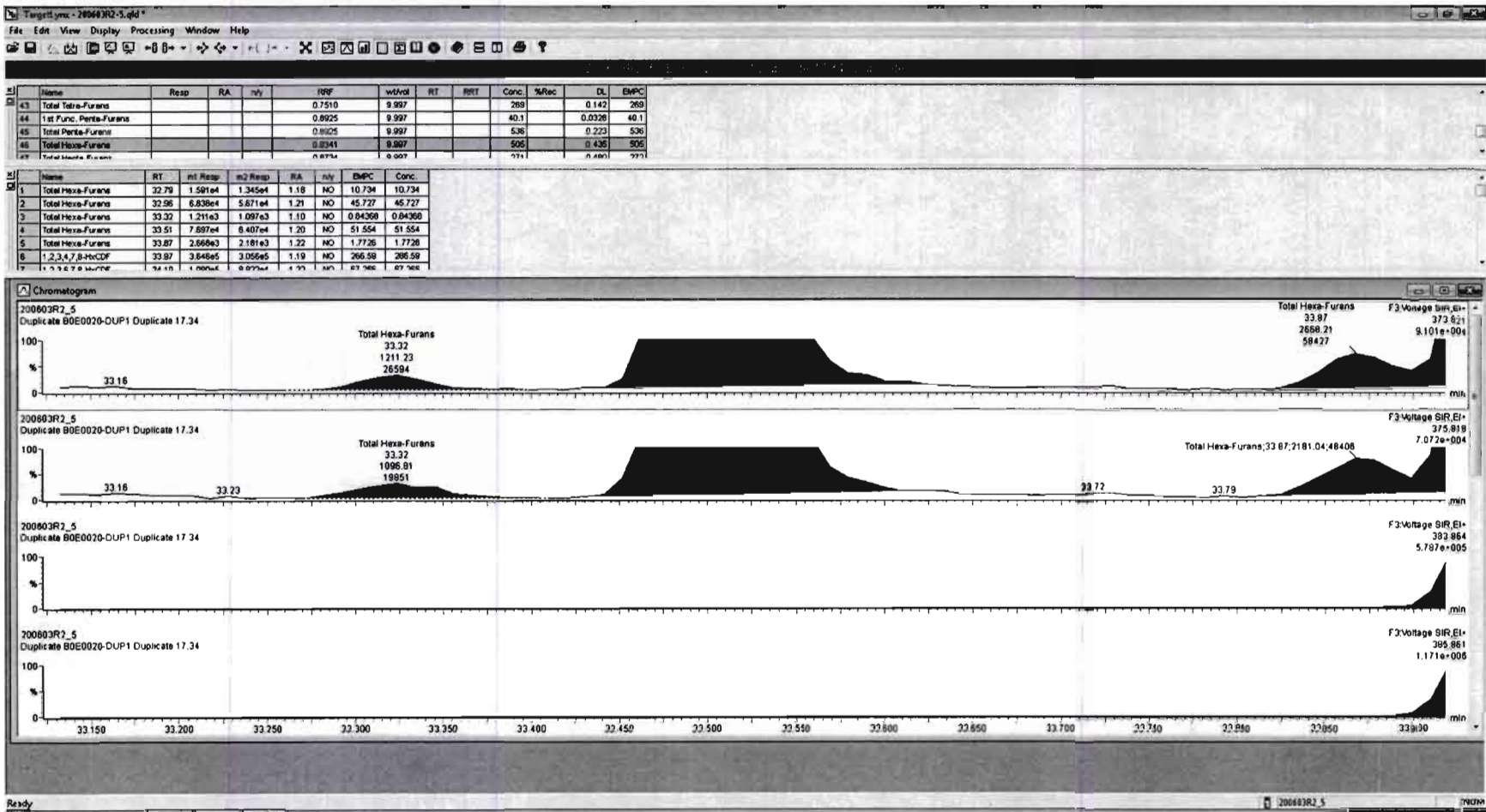
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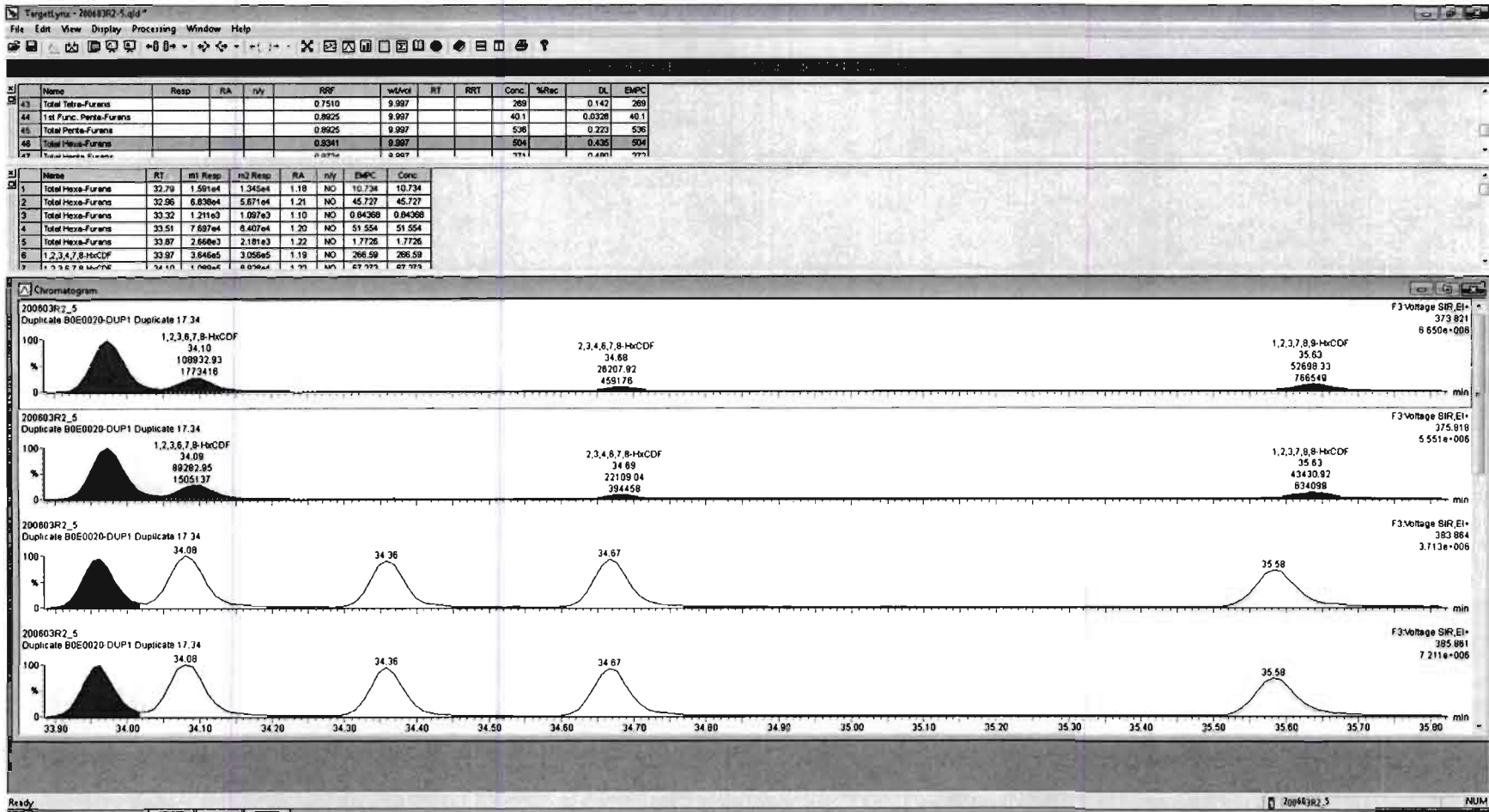








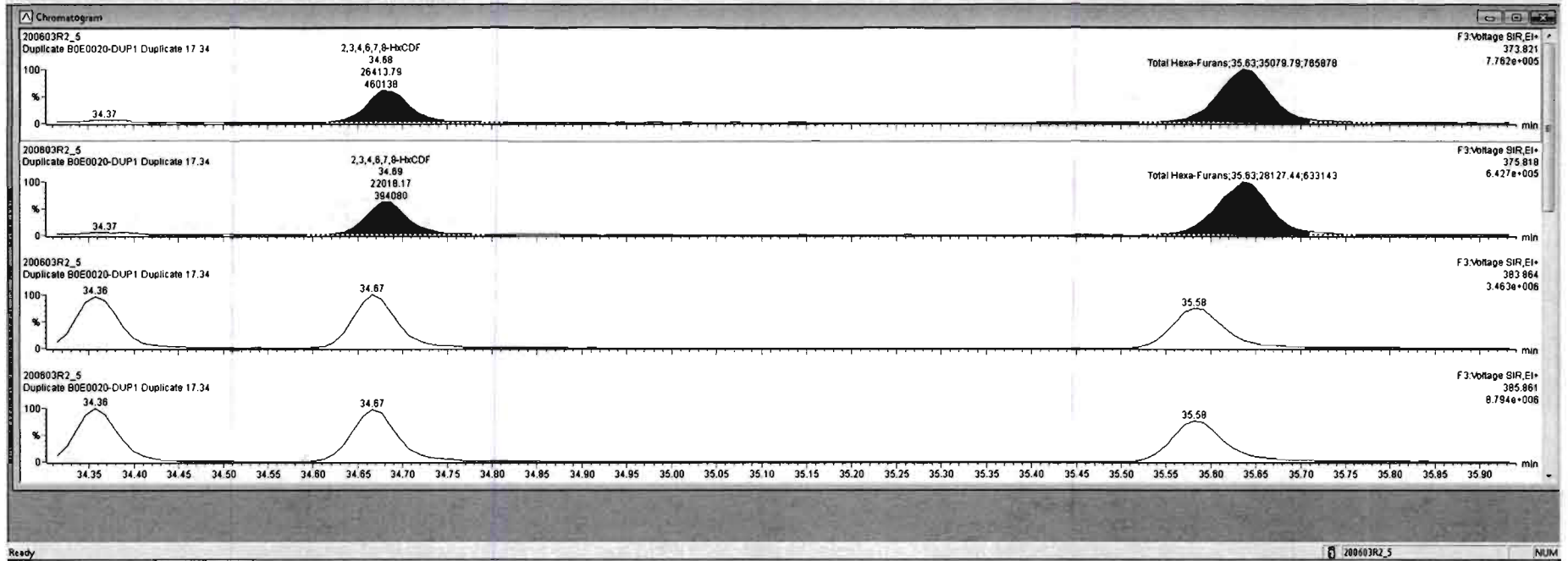




Targetlynx - 200603R2_5.qld
 File Edit View Display Processing Window Help

Name	Resp	RA	nly	RRF	wtval	RT	RRY	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8341	9.997			499		0.435	499
47 Total Hepta-Furans				0.8734	9.997			272		0.480	273
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.70	1.591e4	1.345e4	1.18	NO	10.734	10.734
2 1,2,3,7,8-HxCDF	35.62	1.864e4	1.462e4	1.14	NO	13.417	13.417
3 2,3,4,6,7,8-HxCDF	34.68	2.641e4	2.202e4	1.20	NO	17.986	17.986
4 1,2,3,6,7,8-HxCDF	34.10	1.089e5	8.926e4	1.22	NO	67.273	67.273



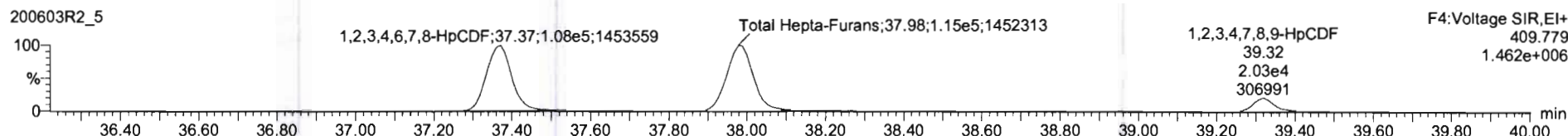
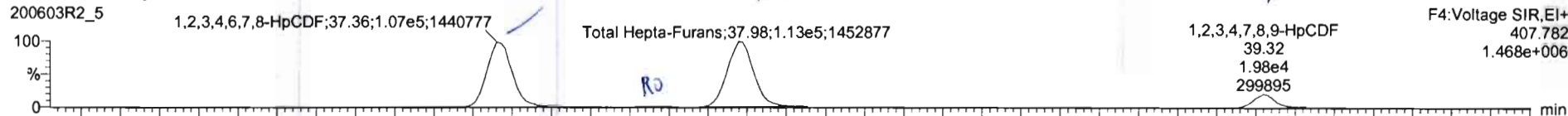
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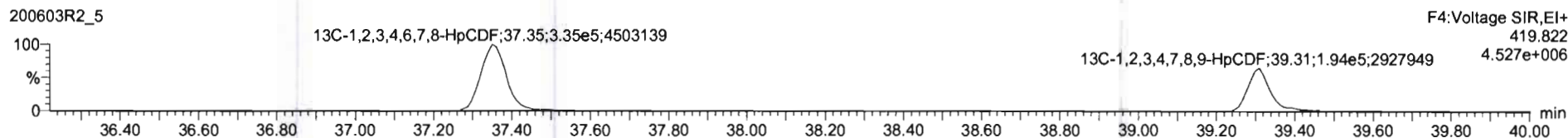
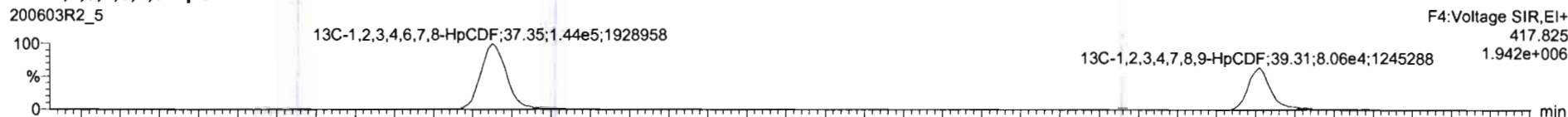
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Name: 200603R2_5, Date: 03-Jun-2020, Time: 22:57:38, ID: B0E0020-DUP1 Duplicate 17.34, Description: Duplicate

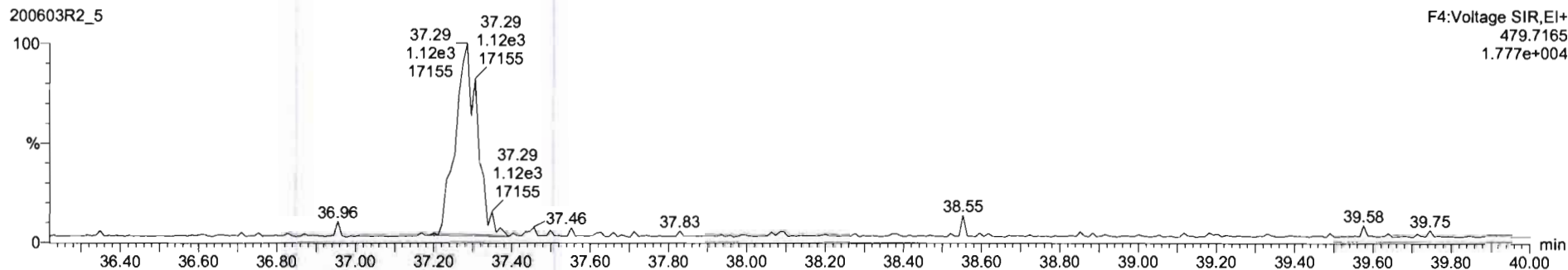
1,2,3,4,6,7,8-HpCDF



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



DPE4

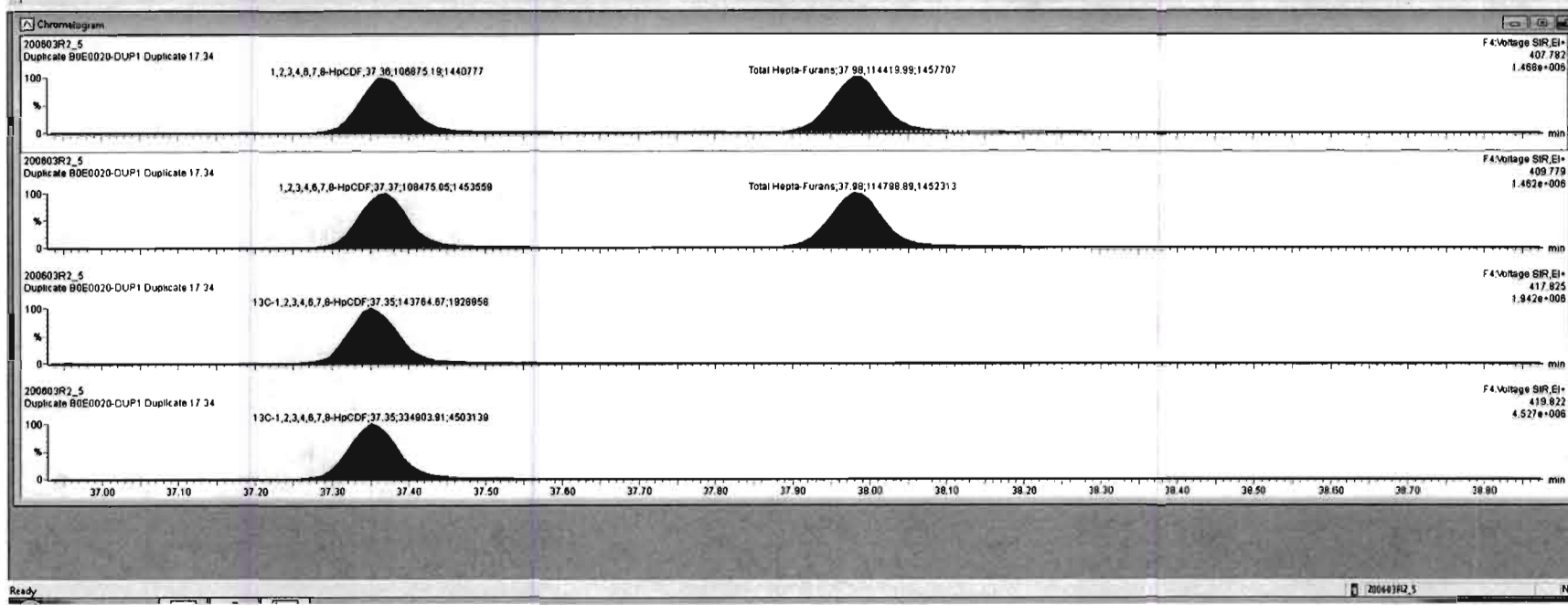


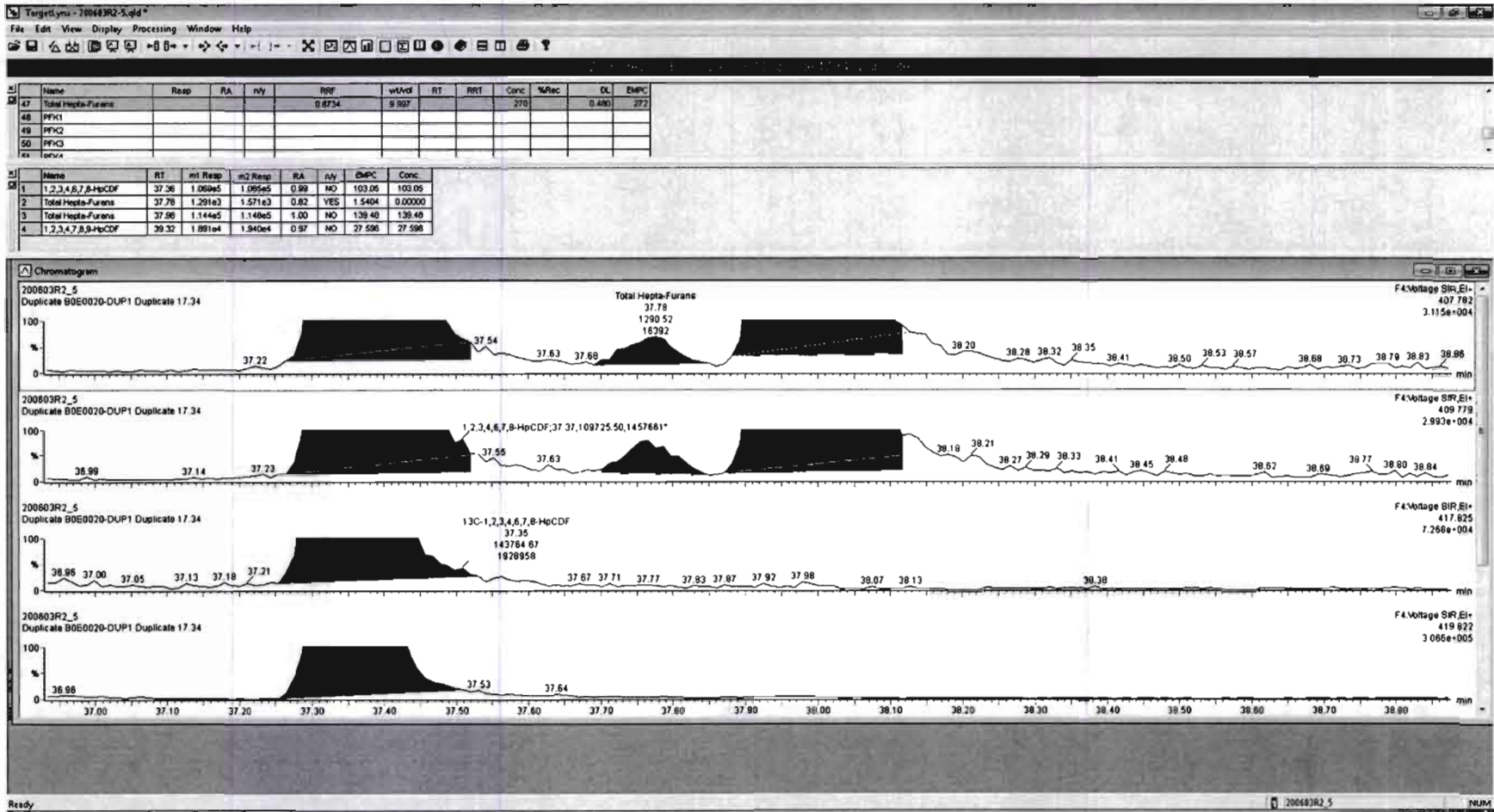
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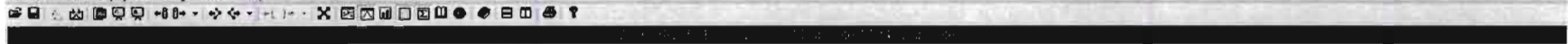
File Edit View Display Processing Window Help

ID	Name	Resp	RA	IVY	RIF	WtAve	RT	RRT	Cchc	%Rec	DL	EMPC
47	Total Hepta-Furans				0.6734	9.997			278		0.480	27.2
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											

ID	Name	RT	m1 Resp	m2 Resp	RA	IVY	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.36	1.069e5	1.085e5	0.99	NO	103.05	103.05
2	Total Hepta-Furans	37.78	1.291e3	1.571e3	0.82	YES	1.5404	0.00000
3	Total Hepta-Furans	37.98	1.144e5	1.148e5	1.00	NO	139.48	139.48
4	1,2,3,4,7,8,9-HpCDF	39.32	1.891e4	1.940e4	0.97	NO	27.598	27.598

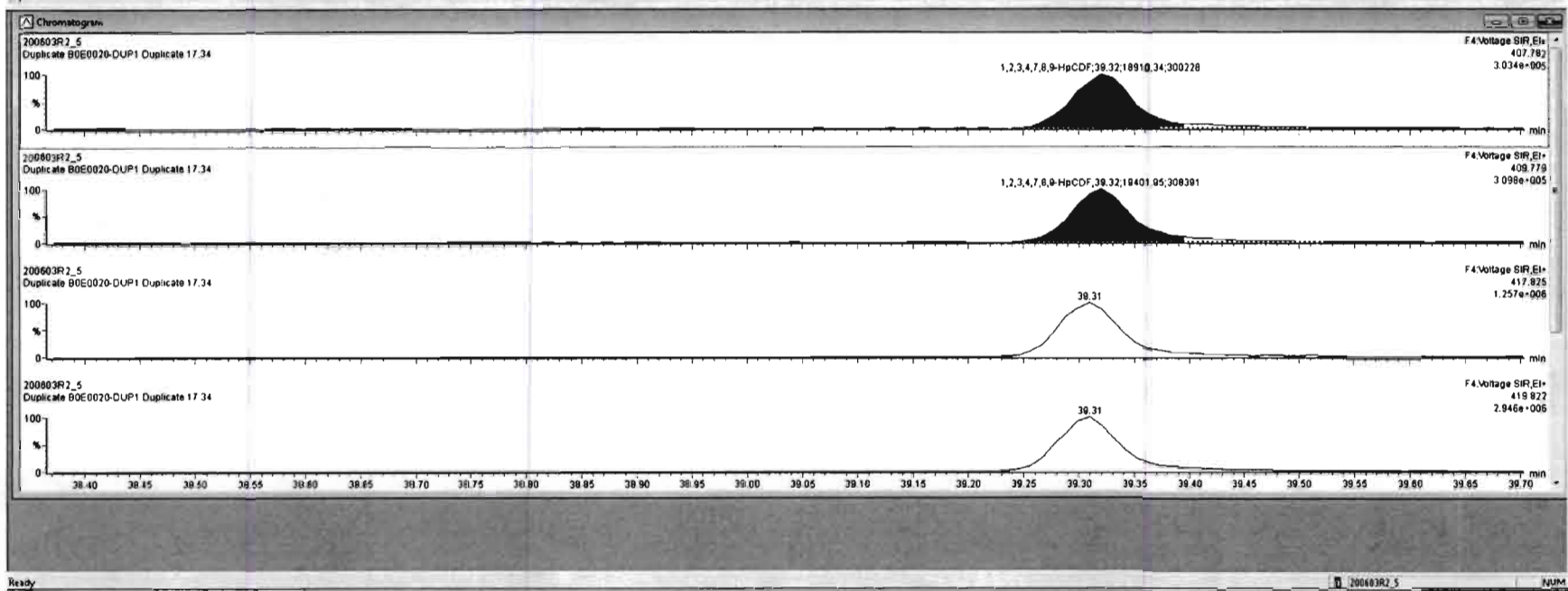






Name	Resp	RA	RV	RF	wtAcq	RT	RT1	Conc	SRoc	DL	EMPC
47 Total Hepta-Furans				0.8734	5.997			272		0.480	273
48 PPK1											
49 PPK2											
50 PPK3											
44 orva											

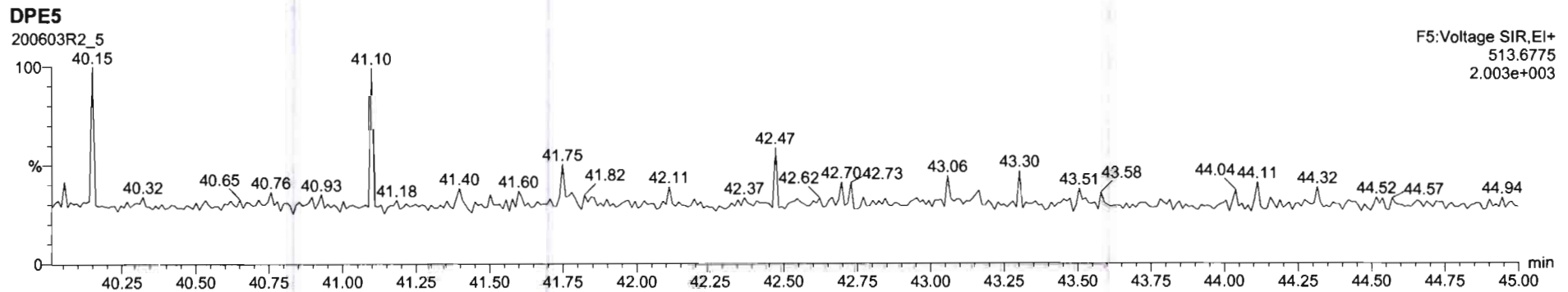
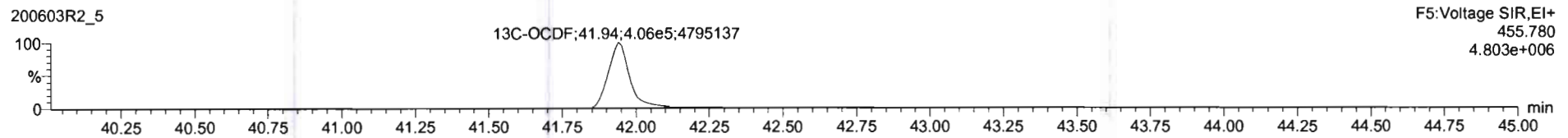
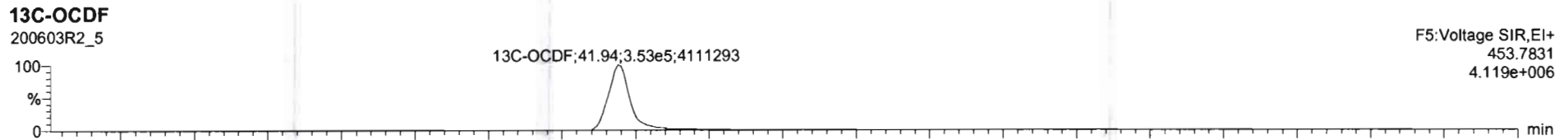
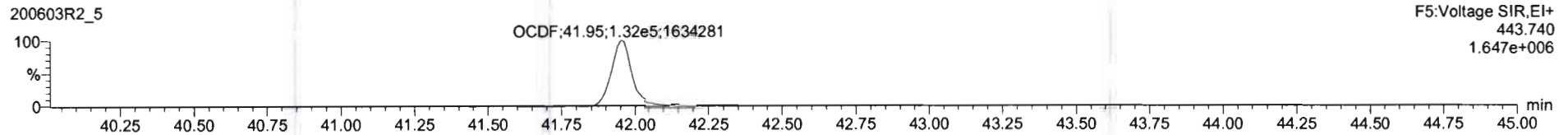
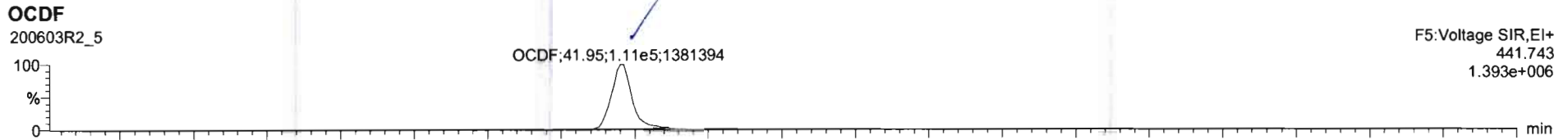
Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	37.38	1.082e5	1.097e5	0.99	NO	104.29	104.29
2 Total Hepta-Furans	37.78	1.201e3	1.540e3	0.83	YES	1.5404	0.00000
3 Total Hepta-Furans	37.90	1.143e5	1.150e5	0.99	NO	139.86	139.86
4 1,2,3,4,7,8,9-HpCDF	38.32	1.891e4	1.940e4	0.97	NO	27.590	27.590

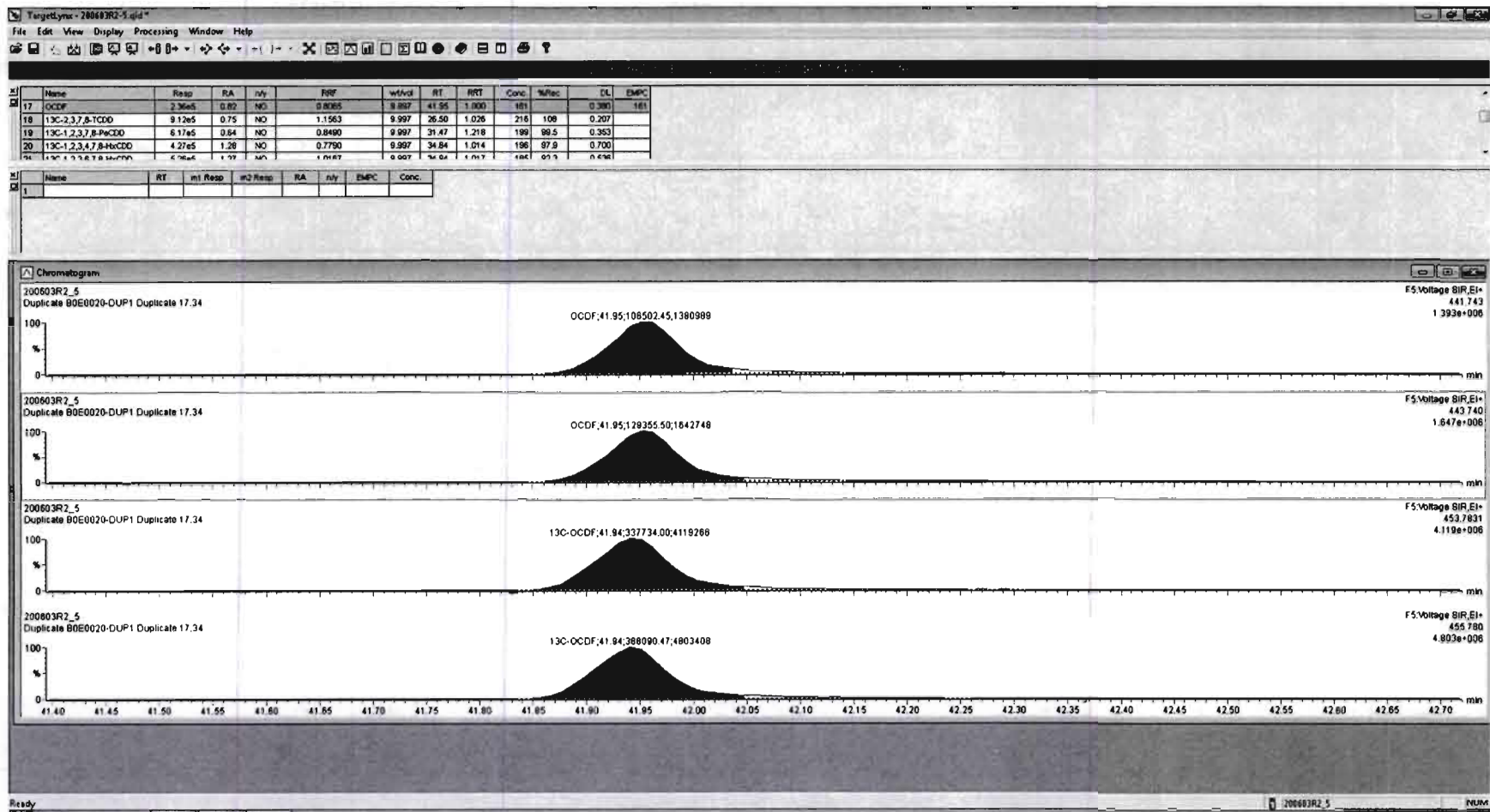


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Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

Name: 200603R2_5, Date: 03-Jun-2020, Time: 22:57:38, ID: B0E0020-DUP1 Duplicate 17.34, Description: Duplicate



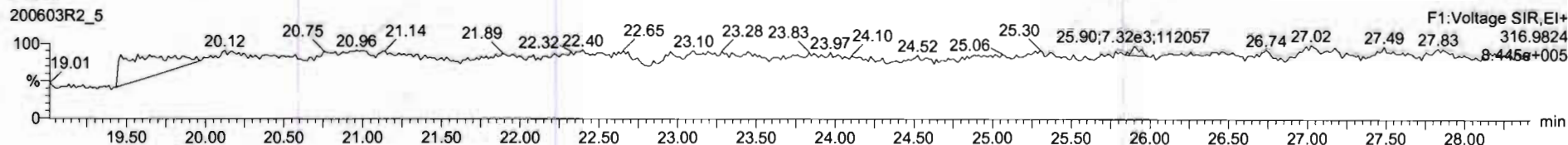


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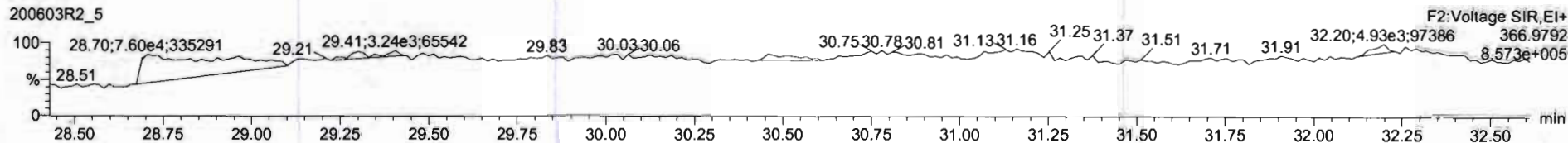
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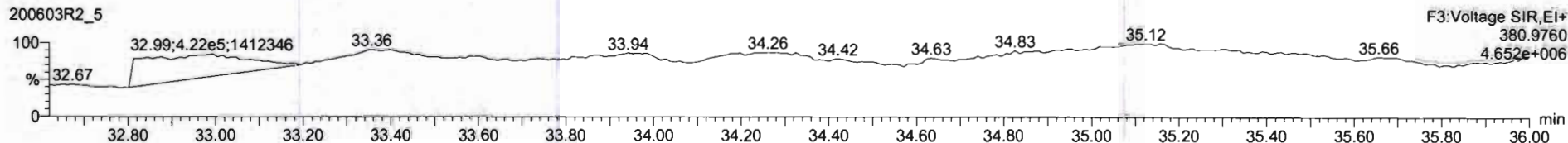
PFK1



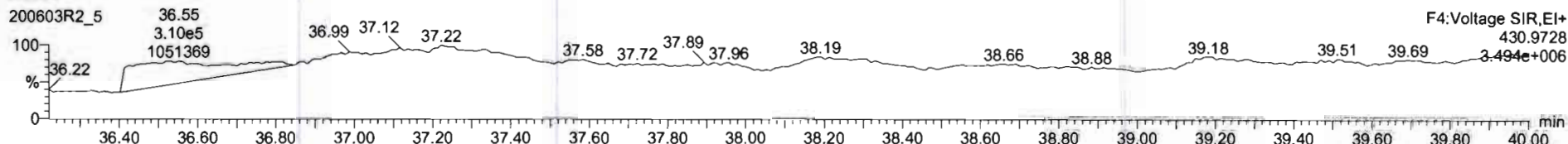
PFK2



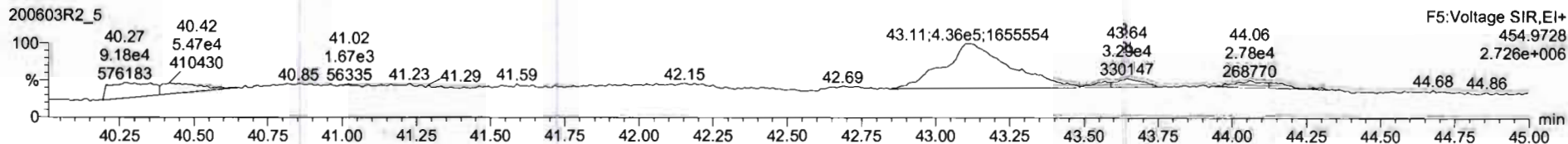
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R2\200603R2-6.qld

Last Altered: Thursday, June 04, 2020 10:52:05 Pacific Daylight Time

Printed: Thursday, June 04, 2020 10:52:38 Pacific Daylight Time

GRB 06/04/2020
CT 06/05/2020

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_6, Date: 03-Jun-2020, Time: 23:43:52, ID: 2000965-13 PDI-163SC-A-03-04-200425 17.24, Description: PDI-163SC-A-03-04-200425

#	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	8.59e2	0.39	YES	0.888	10.384	26.516	26.51	1.001	1.001	0.21097		0.0626	0.136
2	2 1,2,3,7,8-PeCDD	1.85e3	0.71	NO	0.908	10.384	31.473	31.47	1.001	1.000	0.60293		0.0913	0.603
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.384	34.836		1.000				0.145	
4	4 1,2,3,6,7,8-HxCDD	2.16e3	1.34	NO	0.892	10.384	34.932	34.94	1.000	1.000	0.85573		0.152	0.856
5	5 1,2,3,7,8,9-HxCDD	1.01e3	1.12	NO	0.887	10.384	35.220	35.23	1.000	1.001	0.44459		0.179	0.445
6	6 1,2,3,4,6,7,8-HpCDD	3.21e3	0.97	NO	0.864	10.384	38.768	38.77	1.000	1.000	1.9615		0.207	1.96
7	7 OCDD	2.30e4	0.85	NO	0.914	10.384	41.749	41.76	1.000	1.000	15.345		0.302	15.3
8	8 2,3,7,8-TCDF	1.37e3	0.70	NO	0.751	10.384	25.612	25.63	1.001	1.002	0.31499		0.162	0.315
9	9 1,2,3,7,8-PeCDF	1.69e3	1.42	NO	0.893	10.384	30.190	30.18	1.001	1.001	0.37708		0.138	0.377
10	10 2,3,4,7,8-PeCDF	1.14e4	1.50	NO	0.935	10.384	31.177	31.19	1.001	1.001	2.4243		0.122	2.42
11	11 1,2,3,4,7,8-HxCDF	3.27e3	1.30	NO	0.884	10.384	33.942	33.96	1.000	1.001	1.2216		0.118	1.22
12	12 1,2,3,6,7,8-HxCDF	3.15e3	1.32	NO	0.889	10.384	34.079	34.09	1.000	1.001	1.0132		0.112	1.01
13	13 2,3,4,6,7,8-HxCDF	3.88e3	1.20	NO	0.934	10.384	34.690	34.68	1.001	1.001	1.3065		0.115	1.31
14	14 1,2,3,7,8,9-HxCDF	5.70e2	1.08	NO	0.871	10.384	35.571	35.61	1.000	1.001	0.24771		0.181	0.248
15	15 1,2,3,4,6,7,8-HpCDF	4.63e3	0.90	NO	0.873	10.384	37.387	37.36	1.001	1.000	2.2724		0.126	2.27
16	16 1,2,3,4,7,8,9-HpCDF	5.15e2	0.90	NO	1.01	10.384	39.310	39.32	1.000	1.000	0.35999		0.153	0.360
17	17 OCDF	1.37e3	0.95	NO	0.806	10.384	41.940	41.95	1.000	1.000	0.93790		0.112	0.938
18	18 13C-2,3,7,8-TCDD	8.83e5	0.78	NO	1.16	10.384	26.507	26.48	1.026	1.026	194.67	101	0.194	
19	19 13C-1,2,3,7,8-PeCDD	6.51e5	0.63	NO	0.849	10.384	31.692	31.45	1.227	1.218	195.51	102	0.415	
20	20 13C-1,2,3,4,7,8-HxCDD	4.52e5	1.28	NO	0.779	10.384	34.830	34.83	1.014	1.014	197.13	102	0.641	
21	21 13C-1,2,3,6,7,8-HxCDD	5.45e5	1.24	NO	1.02	10.384	34.944	34.93	1.017	1.017	182.15	94.6	0.491	
22	22 13C-1,2,3,7,8,9-HxCDD	4.91e5	1.28	NO	0.903	10.384	35.215	35.21	1.025	1.025	184.90	96.0	0.553	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.65e5	1.05	NO	0.689	10.384	38.739	38.76	1.128	1.128	179.88	93.4	0.532	
24	24 13C-OCDD	6.32e5	0.90	NO	0.652	10.384	41.761	41.75	1.216	1.216	328.90	85.4	0.503	
25	25 13C-2,3,7,8-TCDF	1.11e6	0.78	NO	1.06	10.384	25.549	25.59	0.989	0.991	180.38	93.6	0.315	
26	26 13C-1,2,3,7,8-PeCDF	9.67e5	1.57	NO	0.838	10.384	30.076	30.17	1.165	1.168	198.37	103	0.631	
27	27 13C-2,3,4,7,8-PeCDF	9.67e5	1.59	NO	0.817	10.384	31.029	31.15	1.202	1.206	203.49	106	0.648	
28	28 13C-1,2,3,4,7,8-HxCDF	5.82e5	0.49	NO	1.01	10.384	33.961	33.94	0.989	0.988	196.28	102	0.564	
29	29 13C-1,2,3,6,7,8-HxCDF	6.73e5	0.50	NO	1.17	10.384	34.085	34.07	0.992	0.992	195.76	102	0.487	
30	30 13C-2,3,4,6,7,8-HxCDF	6.12e5	0.51	NO	1.02	10.384	34.659	34.65	1.009	1.009	203.28	106	0.556	
31	31 13C-1,2,3,7,8,9-HxCDF	5.09e5	0.51	NO	0.860	10.384	35.558	35.57	1.035	1.036	201.08	104	0.661	

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-6.qld

Last Altered: Thursday, June 04, 2020 10:52:05 Pacific Daylight Time

Printed: Thursday, June 04, 2020 10:52:38 Pacific Daylight Time

Name: 200603R2_6, Date: 03-Jun-2020, Time: 23:43:52, ID: 2000965-13 PDI-163SC-A-03-04-200425 17.24, Description: PDI-163SC-A-03-04-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.49e5	0.44	NO	0.774	10.384	37.307	37.35	1.086	1.087	197.00	102	0.445	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.72e5	0.42	NO	0.521	10.384	39.336	39.31	1.145	1.145	177.34	92.1	0.662	
34	34 13C-OCDF	6.97e5	0.87	NO	0.746	10.384	41.933	41.94	1.221	1.221	317.59	82.4	0.479	
35	35 37Cl-2,3,7,8-TCDD	3.04e5			1.04	10.384	26.538	26.51	1.028	1.027	74.690	96.9	0.0728	
36	36 13C-1,2,3,4-TCDD	7.55e5	0.79	NO	1.00	10.384	25.890	25.83	1.000	1.000	192.61	100	0.224	
37	37 13C-1,2,3,4-TCDF	1.12e6	0.79	NO	1.00	10.384	24.360	24.15	1.000	1.000	192.61	100	0.333	
38	38 13C-1,2,3,4,6,9-HxCDF	5.67e5	0.51	NO	1.00	10.384	34.420	34.35	1.000	1.000	192.61	100	0.568	
39	39 Total Tetra-Dioxins				0.888	10.384	24.620		0.000		3.6325		0.0628	3.94
40	40 Total Penta-Dioxins				0.908	10.384	29.960		0.000		6.5860		0.0913	7.27
41	41 Total Hexa-Dioxins				0.892	10.384	33.635		0.000		10.041		0.165	10.4
42	42 Total Hepta-Dioxins				0.864	10.384	37.640		0.000		5.1527		0.207	5.15
43	43 Total Tetra-Furans				0.751	10.384	23.610		0.000		20.234		0.162	20.6 P
44	44 1st Func. Penta-Furans				0.893	10.384	27.580		0.000		20.862		0.0299	20.9
45	45 Total Penta-Furans				0.893	10.384	29.275		0.000		15.888		0.133	15.9 P
46	46 Total Hexa-Furans				0.934	10.384	33.555		0.000		18.027		0.124	18.0
47	47 Total Hepta-Furans				0.873	10.384	37.835		0.000		4.7190		0.145	4.72

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-6.qld

Last Altered: Thursday, June 04, 2020 10:52:05 Pacific Daylight Time
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Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_6, Date: 03-Jun-2020, Time: 23:43:52, ID: 2000965-13 PDI-163SC-A-03-04-200425 17.24, Description: PDI-163SC-A-03-04-200425

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.49	1.444e4	1.771e4	1.245e3	1.675e3	0.74	NO	2.920e3	0.71718	0.71718	0.0628
2	Total Tetra-Dioxins	22.94	7.247e3	8.607e3	6.458e2	9.247e2	0.70	NO	1.570e3	0.38568	0.38568	0.0628
3	Total Tetra-Dioxins	23.44	8.962e3	7.818e3	5.744e2	7.009e2	0.82	NO	1.275e3	0.31319	0.31319	0.0628
4	Total Tetra-Dioxins	24.33	5.501e3	5.117e3	3.299e2	4.473e2	0.74	NO	7.772e2	0.19087	0.19087	0.0628
5	Total Tetra-Dioxins	24.58	1.168e4	1.358e4	8.976e2	1.231e3	0.73	NO	2.129e3	0.52285	0.52285	0.0628
6	Total Tetra-Dioxins	24.81	1.302e4	1.691e4	9.447e2	1.266e3	0.75	NO	2.211e3	0.54303	0.54303	0.0628
7	Total Tetra-Dioxins	25.00	3.840e3	4.924e3	2.001e2	2.886e2	0.69	NO	4.886e2	0.12000	0.12000	0.0628
8	Total Tetra-Dioxins	25.27	6.556e3	9.277e3	4.451e2	5.467e2	0.81	NO	9.918e2	0.24358	0.24358	0.0628
9	Total Tetra-Dioxins	25.47	4.586e3	6.652e3	3.391e2	4.865e2	0.70	NO	8.256e2	0.20274	0.20274	0.0628
10	Total Tetra-Dioxins	25.81	3.364e3	3.627e3	2.328e2	2.916e2	0.80	NO	5.244e2	0.12878	0.12878	0.0628
11	Total Tetra-Dioxins	26.23	4.243e3	3.405e3	3.563e2	3.957e2	0.90	YES	0.000e0	0.00000	0.17201	0.0628
12	2,3,7,8-TCDD	26.51	4.293e3	1.046e4	2.416e2	6.175e2	0.39	YES	8.591e2	0.00000	0.13640	0.0628
13	Total Tetra-Dioxins	26.84	5.051e3	5.329e3	3.178e2	4.215e2	0.75	NO	7.393e2	0.18157	0.18157	0.0628
14	Total Tetra-Dioxins	27.47	2.793e3	2.946e3	1.374e2	2.009e2	0.68	NO	3.383e2	0.083074	0.083074	0.0628

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.25	3.742e4	6.092e4	2.663e3	4.524e3	0.59	NO	7.187e3	2.3416	2.3416	0.0913
2	Total Penta-Dioxins	29.73	6.408e3	7.891e3	3.258e2	4.830e2	0.67	NO	8.088e2	0.26352	0.26352	0.0913
3	Total Penta-Dioxins	30.22	2.851e4	3.582e4	1.509e3	2.170e3	0.70	NO	3.679e3	1.1985	1.1985	0.0913
4	Total Penta-Dioxins	30.38	2.088e4	3.859e4	1.175e3	2.094e3	0.56	NO	3.269e3	1.0650	1.0650	0.0913
5	Total Penta-Dioxins	30.49	9.872e3	1.602e4	4.746e2	8.781e2	0.54	NO	1.353e3	0.44073	0.44073	0.0913
6	Total Penta-Dioxins	30.70	1.466e4	1.996e4	6.598e2	9.317e2	0.71	NO	0.000e0	0.00000	0.51853	0.0913
7	Total Penta-Dioxins	30.73	1.472e4	2.046e4	5.818e2	8.056e2	0.72	NO	1.387e3	0.45202	0.45202	0.0913
8	1,2,3,7,8-PeCDD	31.47	1.462e4	1.911e4	7.655e2	1.085e3	0.71	NO	1.851e3	0.60293	0.60293	0.0913
9	Total Penta-Dioxins	31.56	5.178e3	5.988e3	2.755e2	3.106e2	0.89	YES	0.000e0	0.00000	0.16495	0.0913
10	Total Penta-Dioxins	31.85	9.056e3	7.709e3	2.846e2	3.958e2	0.72	NO	6.804e2	0.22170	0.22170	0.0913

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Name: 200603R2_6, Date: 03-Jun-2020, Time: 23:43:52, ID: 2000965-13 PDI-163SC-A-03-04-200425 17.24, Description: PDI-163SC-A-03-04-200425

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	8.246e4	6.651e4	4.288e3	3.463e3	1.24	NO	7.751e3	3.3712	3.3712	0.165
2	Total Hexa-Dioxins	33.89	1.393e4	1.195e4	7.574e2	5.695e2	1.33	NO	1.327e3	0.57714	0.57714	0.165
3	Total Hexa-Dioxins	34.14	9.287e4	7.852e4	6.282e3	4.735e3	1.33	NO	1.102e4	4.7920	4.7920	0.165
4	Total Hexa-Dioxins	34.21	1.203e4	6.997e3	4.662e2	3.335e2	1.40	NO	0.000e0	0.00000	0.34782	0.165
5	1,2,3,6,7,8-HxCDD	34.94	2.273e4	1.698e4	1.239e3	9.222e2	1.34	NO	2.162e3	0.85573	0.85573	0.152
6	1,2,3,7,8,9-HxCDD	35.23	9.020e3	8.577e3	5.315e2	4.746e2	1.12	NO	1.006e3	0.44459	0.44459	0.179

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.77	3.923e4	3.195e4	2.723e3	2.502e3	1.09	NO	5.225e3	3.1912	3.1912	0.207
2	1,2,3,4,6,7,8-HpCDD	38.77	2.261e4	2.078e4	1.577e3	1.634e3	0.97	NO	3.211e3	1.9615	1.9615	0.207

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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	20.35	1.049e4	1.552e4	7.890e2	1.201e3	0.66	NO	1.990e3	0.45908	0.45908	0.162
2	Total Tetra-Furans	20.89	2.746e4	3.638e4	2.358e3	3.017e3	0.78	NO	5.374e3	1.2400	1.2400	0.162
3	Total Tetra-Furans	21.50	1.230e5	1.553e5	1.108e4	1.382e4	0.80	NO	2.490e4	5.7445	5.7445	0.162
4	Total Tetra-Furans	21.96	9.568e3	1.470e4	7.968e2	1.189e3	0.67	NO	1.986e3	0.45819	0.45819	0.162
5	Total Tetra-Furans	22.02	7.937e3	1.201e4	8.827e2	1.181e3	0.75	NO	2.064e3	0.47627	0.47627	0.162
6	Total Tetra-Furans	22.46	4.247e4	5.429e4	3.976e3	5.120e3	0.78	NO	9.095e3	2.0986	2.0986	0.162
7	Total Tetra-Furans	22.95	5.723e4	8.124e4	5.782e3	7.852e3	0.74	NO	1.363e4	3.1458	3.1458	0.162
8	Total Tetra-Furans	23.31	5.369e3	6.396e3	4.966e2	6.763e2	0.73	NO	1.173e3	0.27064	0.27064	0.162
9	Total Tetra-Furans	23.89	8.789e3	1.218e4	6.900e2	8.632e2	0.80	NO	1.553e3	0.35838	0.35838	0.162
10	Total Tetra-Furans	24.07	4.006e4	5.508e4	3.208e3	4.520e3	0.71	NO	7.728e3	1.7831	1.7831	0.162
11	Total Tetra-Furans	24.16	8.161e3	1.131e4	3.759e2	5.487e2	0.69	NO	0.000e0	0.00000	0.21333	0.162
12	Total Tetra-Furans	24.69	1.622e4	2.136e4	2.141e3	2.962e3	0.72	NO	5.103e3	1.1774	1.1774	0.162
13	Total Tetra-Furans	24.93	2.543e3	5.460e3	2.497e2	3.903e2	0.64	YES	0.000e0	0.00000	0.13241	0.162
14	Total Tetra-Furans	25.23	3.172e3	4.466e3	3.292e2	4.330e2	0.76	NO	7.622e2	0.17586	0.17586	0.162
15	Total Tetra-Furans	25.39	3.981e3	4.792e3	2.373e2	3.584e2	0.66	NO	5.957e2	0.13744	0.13744	0.162
16	Total Tetra-Furans	25.51	7.227e3	9.675e3	4.343e2	6.307e2	0.69	NO	1.065e3	0.24573	0.24573	0.162
17	2,3,7,8-TCDF	25.63	8.242e3	1.199e4	5.640e2	8.012e2	0.70	NO	1.365e3	0.31499	0.31499	0.162
18	Total Tetra-Furans	26.00	3.854e3	7.415e3	3.239e2	4.561e2	0.71	NO	7.800e2	0.17998	0.17998	0.162
19	Total Tetra-Furans	26.21	4.376e3	3.602e3	2.401e2	2.839e2	0.85	NO	5.240e2	0.12090	0.12090	0.162
20	Total Tetra-Furans	27.17	1.351e4	1.769e4	8.495e2	1.111e3	0.76	NO	1.960e3	0.45225	0.45225	0.162
21	Total Tetra-Furans	27.34	1.553e4	1.794e4	7.567e2	9.907e2	0.76	NO	1.747e3	0.40316	0.40316	0.162
22	Total Tetra-Furans	27.62	2.753e4	3.724e4	1.831e3	2.468e3	0.74	NO	4.298e3	0.99175	0.99175	0.162

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	27.61	9.277e5	5.744e5	5.750e4	3.599e4	1.60	NO	9.350e4	20.862	20.862	0.0299

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.06	2.696e4	1.731e4	1.518e3	9.882e2	1.54	NO	2.506e3	0.55918	0.55918	0.133
2	Total Penta-Furans	29.19	3.094e5	1.853e5	2.032e4	1.283e4	1.58	NO	3.315e4	7.3963	7.3963	0.133
3	Total Penta-Furans	29.25	2.922e4	1.750e4	9.777e2	5.793e2	1.69	NO	1.557e3	0.34740	0.34740	0.133
4	Total Penta-Furans	29.79	1.095e5	7.750e4	6.780e3	4.608e3	1.47	NO	1.139e4	2.5410	2.5410	0.133
5	1,2,3,7,8-PeCDF	30.18	1.553e4	1.386e4	9.933e2	6.971e2	1.42	NO	1.690e3	0.37708	0.37708	0.138
6	Total Penta-Furans	30.44	4.204e4	2.670e4	2.222e3	1.447e3	1.54	NO	3.670e3	0.81879	0.81879	0.133
7	Total Penta-Furans	30.50	3.190e4	2.263e4	1.745e3	1.047e3	1.67	NO	2.792e3	0.62295	0.62295	0.133
8	2,3,4,7,8-PeCDF	31.19	1.529e5	9.977e4	6.831e3	4.545e3	1.50	NO	1.138e4	2.4243	2.4243	0.122
9	Total Penta-Furans	31.21	1.158e5	8.306e4	2.110e3	1.481e3	1.42	NO	3.592e3	0.80142	0.80142	0.133

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.78	3.012e4	2.756e4	1.673e3	1.384e3	1.21	NO	3.057e3	1.0613	1.0613	0.124
2	Total Hexa-Furans	32.95	2.126e5	1.723e5	9.967e3	8.407e3	1.19	NO	1.837e4	6.3799	6.3799	0.124
3	Total Hexa-Furans	33.49	2.245e5	1.682e5	1.035e4	8.701e3	1.19	NO	1.905e4	6.6146	6.6146	0.124
4	1,2,3,4,7,8-HxCDF	33.96	3.537e4	2.502e4	1.849e3	1.418e3	1.30	NO	3.266e3	1.2216	1.2216	0.118
5	1,2,3,6,7,8-HxCDF	34.09	3.105e4	2.145e4	1.792e3	1.355e3	1.32	NO	3.146e3	1.0132	1.0132	0.112
6	2,3,4,6,7,8-HxCDF	34.68	3.396e4	3.179e4	2.111e3	1.764e3	1.20	NO	3.875e3	1.3065	1.3065	0.115
7	1,2,3,7,8,9-HxCDF	35.61	9.667e3	8.328e3	2.960e2	2.738e2	1.08	NO	5.698e2	0.24771	0.24771	0.181
8	Total Hexa-Furans	35.62	6.966e3	8.167e3	2.702e2	2.531e2	1.07	NO	5.233e2	0.18171	0.18171	0.124

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	37.36	3.012e4	3.168e4	2.191e3	2.438e3	0.90	NO	4.629e3	2.2724	2.2724	0.126
2	Total Hepta-Furans	37.99	2.396e4	2.539e4	1.713e3	1.699e3	1.01	NO	3.412e3	2.0867	2.0867	0.145
3	1,2,3,4,7,8,9-HpCDF	39.32	3.994e3	4.640e3	2.446e2	2.703e2	0.90	NO	5.150e2	0.35999	0.35999	0.153

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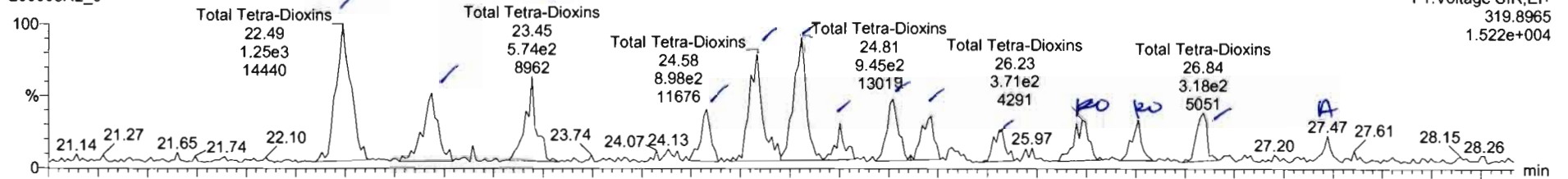
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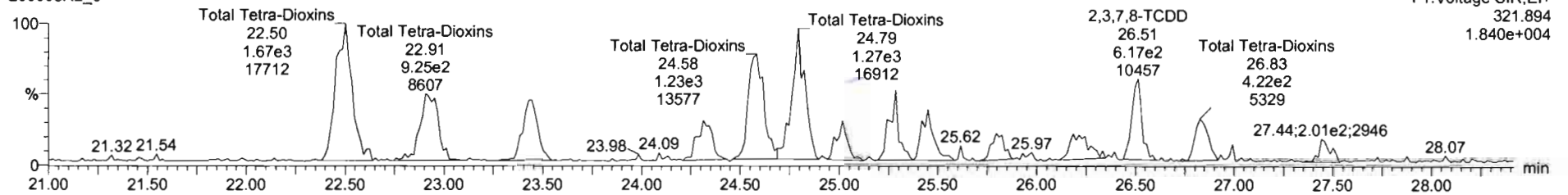
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2,3,7,8-TCDD

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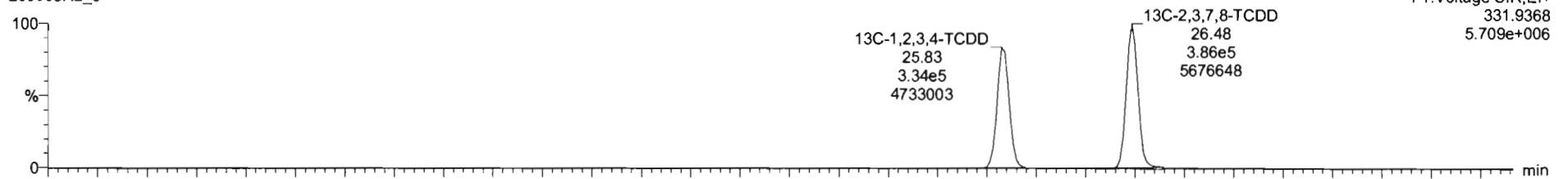


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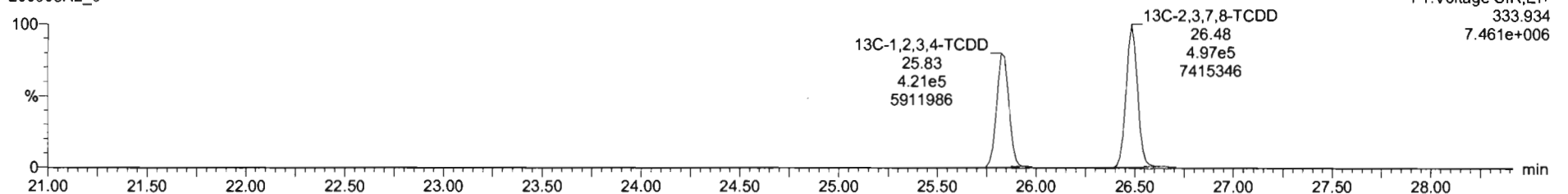


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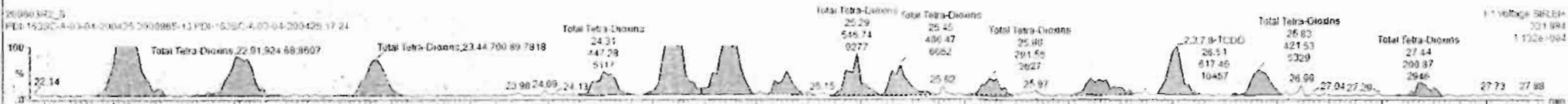
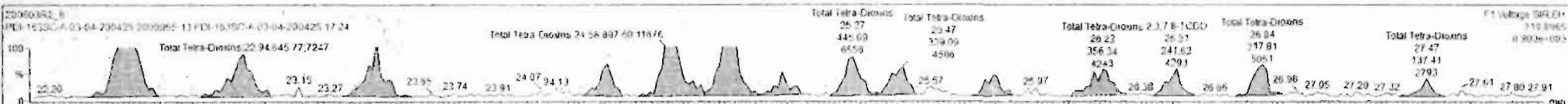


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Name	Retp	RA	ry	SNP	swnd	RT	RRT	Conc	isRec	EL	EMPC
25 Total Tetra-Dioxins				0.6583	10.334			3.63		0.0013	7.21
49 Total Tetra-Dioxins				0.6661	10.334			6.46		0.0013	7.21

Name	RT	nl Resp	nc Resp	RA	ry	EMPC	Conc
1 Total Tetra-Dioxins	22.45	1.245e2	1.675e3	0.74	NO	0.71716	0.71716
2 Total Tetra-Dioxins	23.24	6.458e2	9.247e2	0.70	NO	0.30268	0.30268
3 Total Tetra-Dioxins	23.44	5.744e2	7.000e2	0.82	NO	0.31319	0.31319
4 Total Tetra-Dioxins	24.33	3.299e2	4.473e2	0.74	NO	0.19087	0.19087
5 Total Tetra-Dioxins	24.58	5.976e2	1.221e3	0.73	NO	0.22285	0.22285
6 Total Tetra-Dioxins	24.81	9.447e2	1.286e3	0.72	NO	0.54303	0.54303
7 Total Tetra-Dioxins	25.08	2.001e3	2.699e2	0.69	NO	0.12000	0.12000
8 Total Tetra-Dioxins	26.27	4.451e2	5.967e2	0.81	NO	0.24358	0.24358
9 Total Tetra-Dioxins	26.47	2.381e2	4.065e2	0.70	NO	0.20274	0.20274
10 Total Tetra-Dioxins	26.81	2.378e2	2.816e2	0.80	NO	0.12878	0.12878
11 Total Tetra-Dioxins	26.23	3.563e2	3.967e2	0.90	YES	0.17201	0.05006
12 2,3,7,8-TCDF	26.51	2.410e2	6.175e2	0.39	YES	0.13640	0.09060
13 Total Tetra-Dioxins	26.56	1.173e2	4.215e2	0.75	NO	0.18157	0.18157
14 Total Tetra-Dioxins	27.47	1.374e2	2.089e2	0.68	NO	0.083374	0.083374



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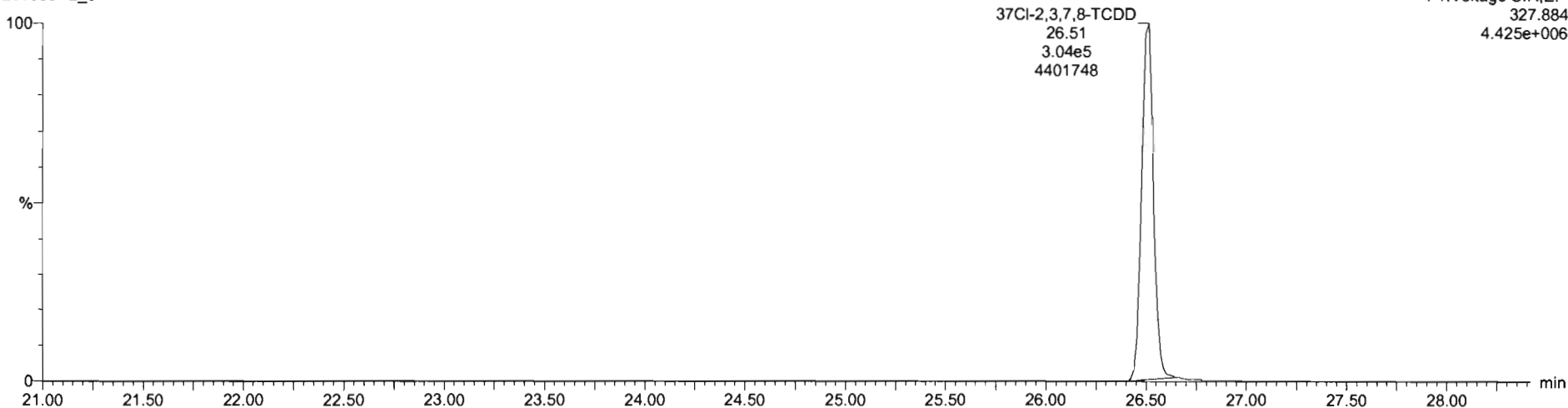
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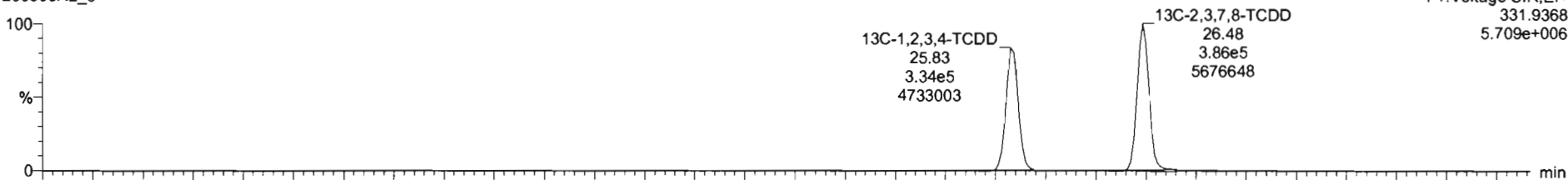
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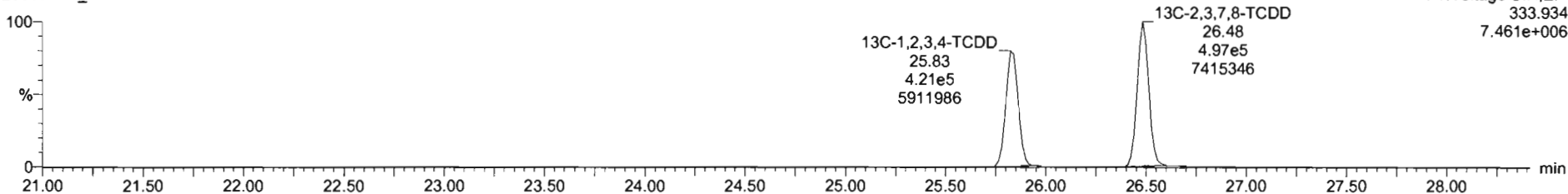


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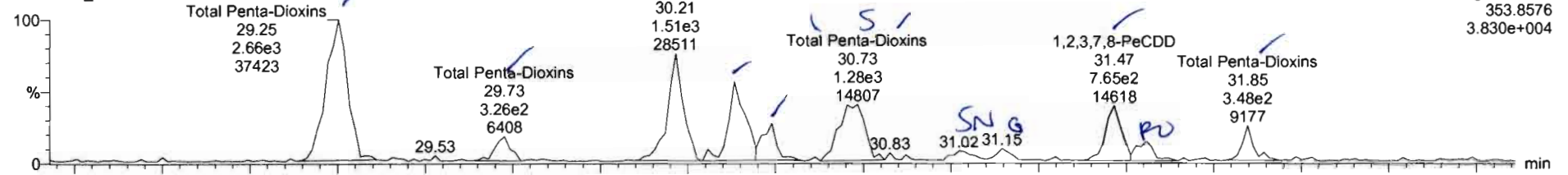
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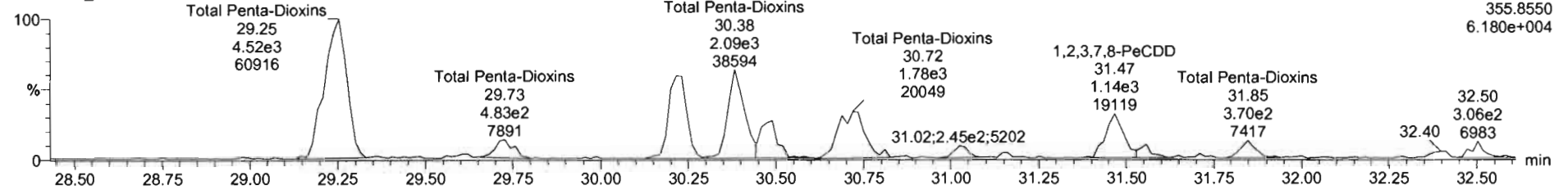
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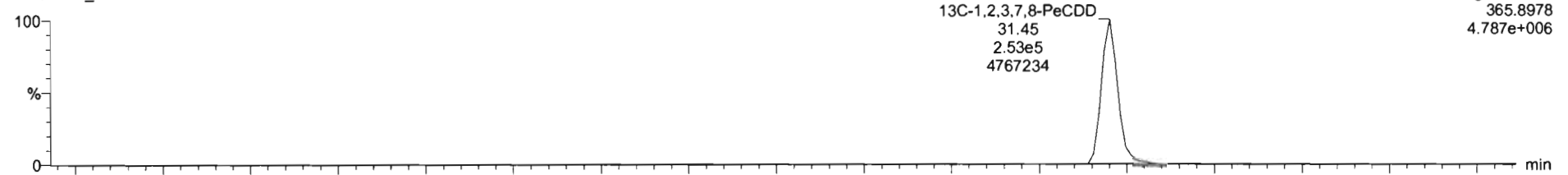


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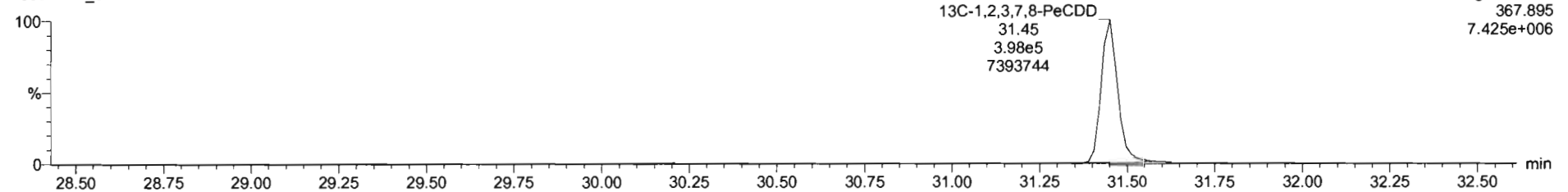


13C-1,2,3,7,8-PeCDD

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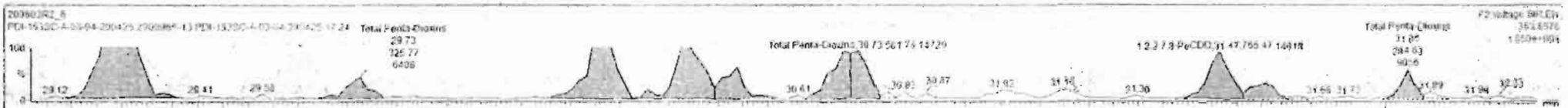


200603R2_6



#	Name	Area	RA	Qty	Unit	Weight	HT	RRT	Comp	Wt%	OL	EMV
39	Total Tetra-Chloro	0.8883	10.384						1.63	0.0620	1.94	
40	Total Penta-Chloro	0.0021	12.584						1.58	0.2521	2.23	

#	Name	RT	net Tri	net Tetra	RA	Qty	EMPC	Comp
1	Total Penta-Chloro	29.25	2.091e2	4.524e1	0.69	NO	2.3116	2.3416
2	Total Penta-Chloro	29.73	0.359e2	4.835e2	0.67	NO	0.261e2	0.26352
3	Total Penta-Chloro	30.22	1.501e3	2.170e1	0.70	NO	1.1985	1.1985
4	Total Penta-Chloro	30.36	1.175e3	7.094e3	0.56	NO	1.2652	1.2652
5	Total Penta-Chloro	30.49	4.749e2	0.761e2	0.51	NO	0.44073	0.44073
6	Total Penta-Chloro	30.70	6.594e2	9.717e3	0.71	NO	0.51853	0.80920
7	Total Penta-Chloro	30.73	5.813e2	8.095e2	0.72	NO	0.45202	0.45202
8	1,2,3,7,8-PeCDD	31.47	7.856e2	1.095e3	0.71	NO	0.60293	0.60793
9	Total Penta-Chloro	31.56	2.715e2	3.105e2	0.85	NO	0.46485	0.00000
10	Total Penta-Chloro	31.85	2.046e2	3.552e2	0.72	NO	0.22170	0.22170



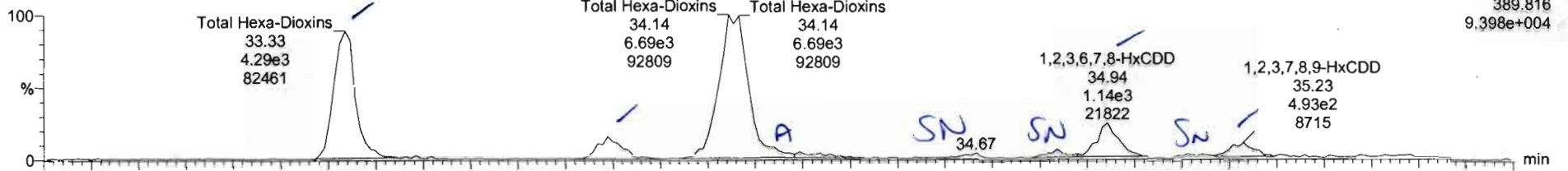
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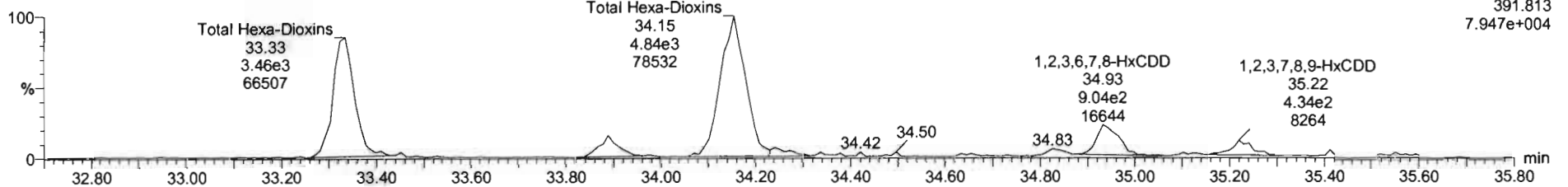
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1,2,3,4,7,8-HxCDD

200603R2_6

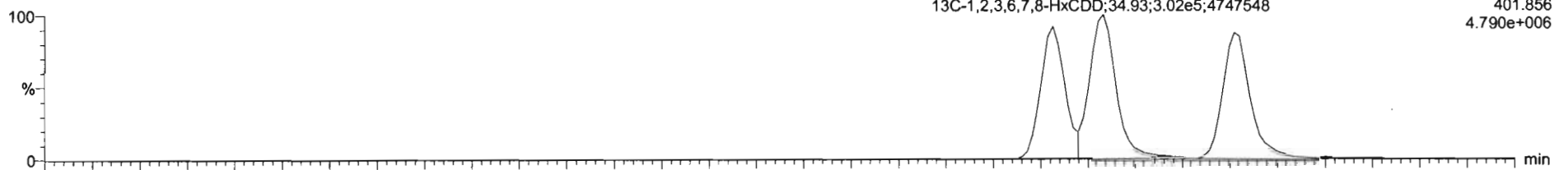


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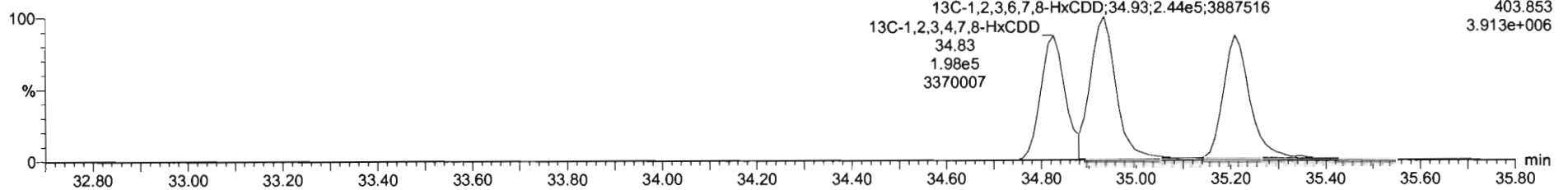


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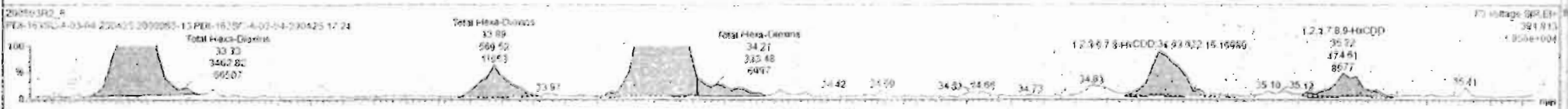


200603R2_6



PK	Name	Depth	RA	RP	RTF	retvol	RT	RRT	Conc	Unit	DU	Time
39	Total Hexa-Dioxins				0.8253	10.354			3.63		0.0626	1.34
48	Total Hexa-Dioxins				0.9081	10.384			6.59		0.0513	7.71

PK	Name	RT	ml Resp	ml Hexa	RA	RP	RTF	Conc
1	Total Hexa-Dioxins	33.33	4.286e3	1.461e1	1.24	6.0	3.3712	3.3712
2	Total Hexa-Dioxins	33.89	7.144e2	5.995e2	1.23	NO	0.97714	6.97714
3	Total Hexa-Dioxins	34.14	5.222e3	4.733e2	1.33	NO	0.7923	4.7923
4	Total Hexa-Dioxins	34.21	4.903e2	3.375e2	1.46	NO	0.34782	0.00000
5	1,2,3,6,7,8-HxCDD	34.54	1.738e1	6.222e2	1.24	NO	0.85673	0.85673
6	1,2,3,7,8,9-HxCDD	35.23	5.315e2	4.748e2	1.12	NO	0.84158	0.41459



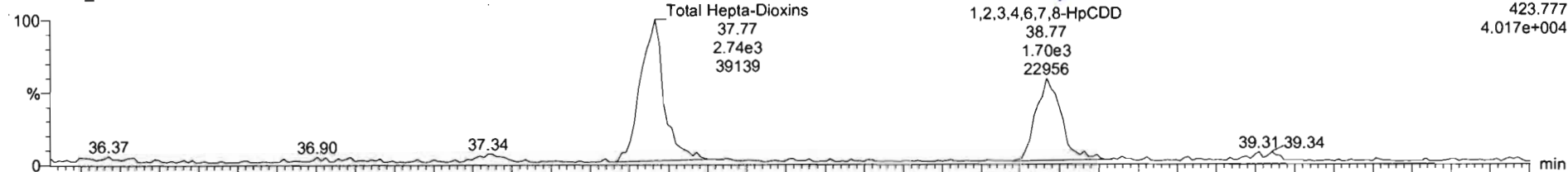
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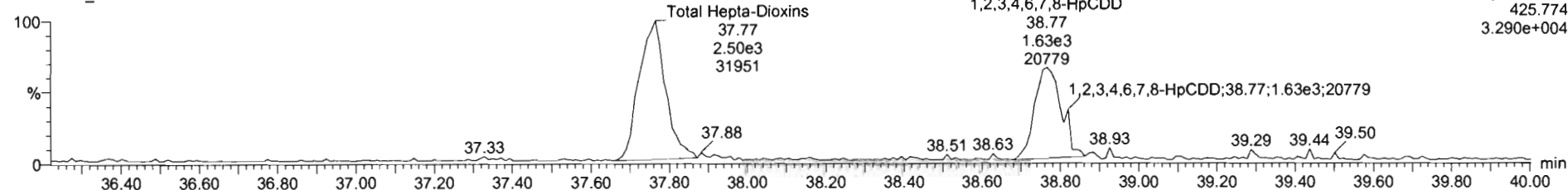
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1,2,3,4,6,7,8-HpCDD

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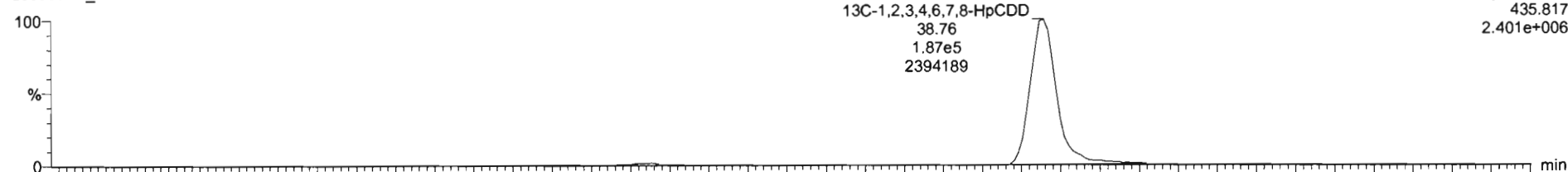


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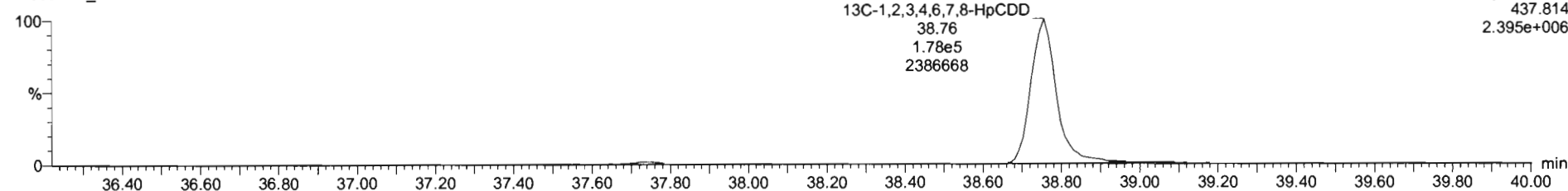


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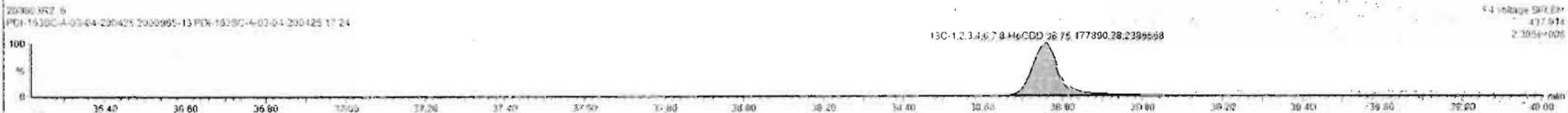
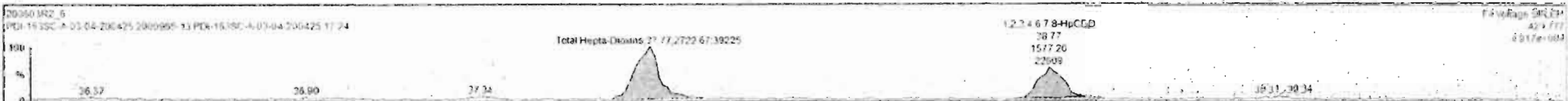


200603R2_6



Name	Exp	RA	n _y	RPF	wt/d	RT	RRT	Conc	Area	EA	StPC
Total Hepta-Dioxins				0.8536	10.384			5.15	6.207	5.15	
Total Tetrachloro				0.7510	10.384			17.4	0.162	10	

Name	DT	ml Resp	mL Resp	RA	n _y	EMPC	Conc
Total Hepta-Dioxins	37.77	2.723e3	2.502e3	1.69	100	3.1912	3.1912
1,2,3,4,6,7,8-HxCDD	38.77	1.577e2	1.634e3	0.97	100	1.9815	1.9612

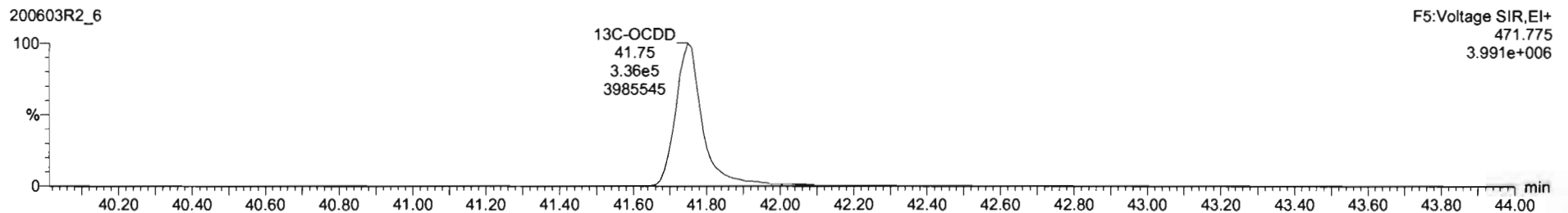
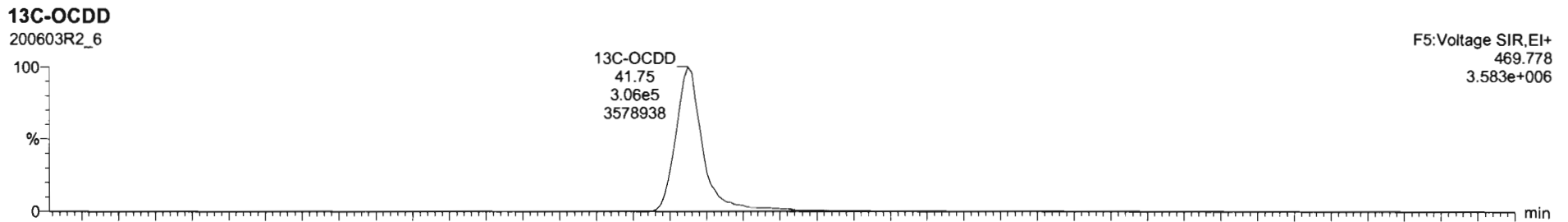
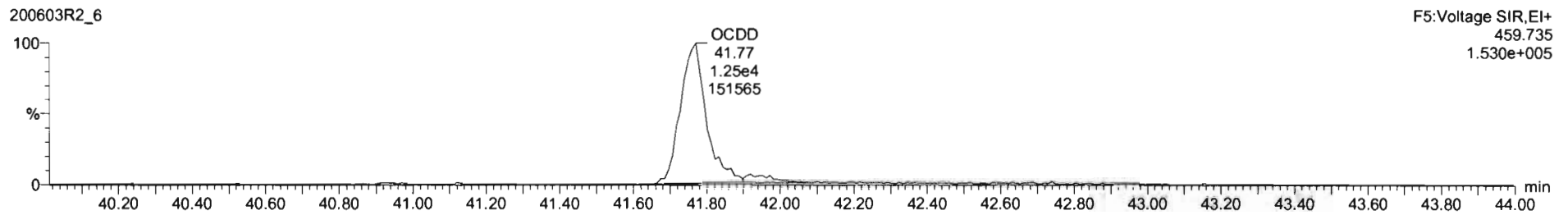
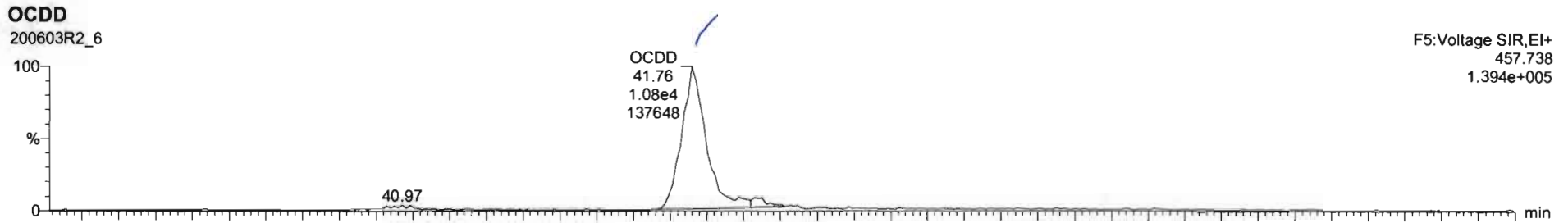


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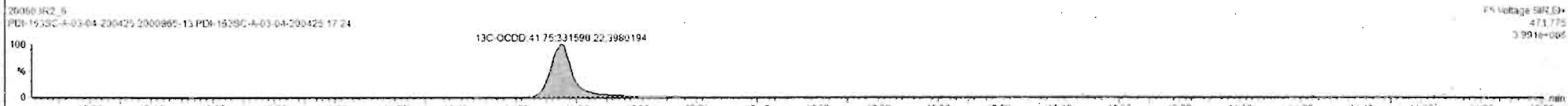
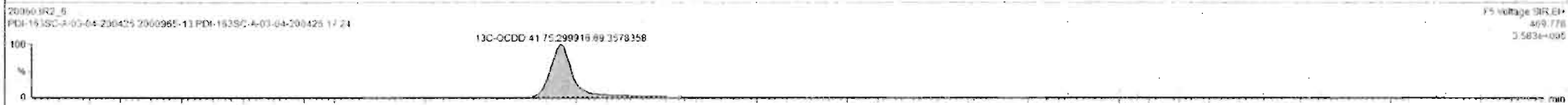
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#	Name	Comp	RA	n/y	RRF	WtVol	RT	RRT	Conc	WRec	DL	EMPC
6	1,2,3,4,6,7,8-MpCDD	3.34e2	1.04	N/D	0.8535	10.384	38.77	1.000	2.04		0.207	2.04
7	OCDD	2.36e4	6.95	N/D	0.9136	10.304	41.76	1.000	15.3		6.302	15.3

#	Name	RT	mI Resp	mI Reso	RA	n/y	EMPC	Conc
1								

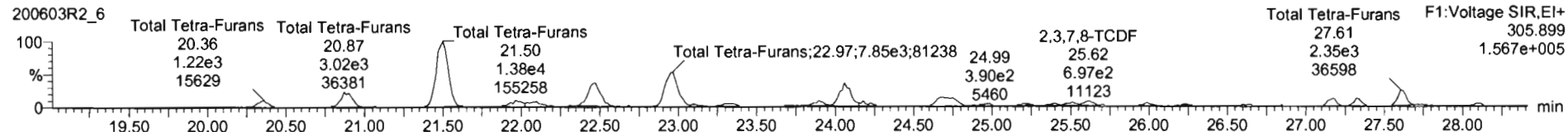
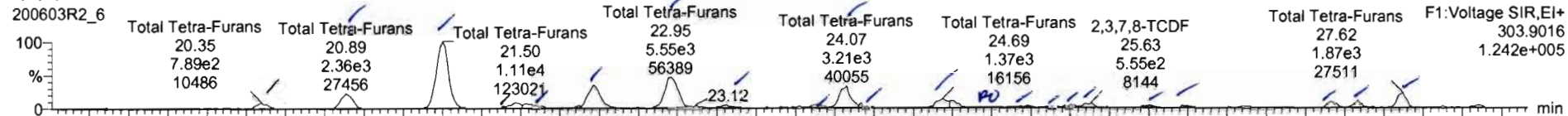


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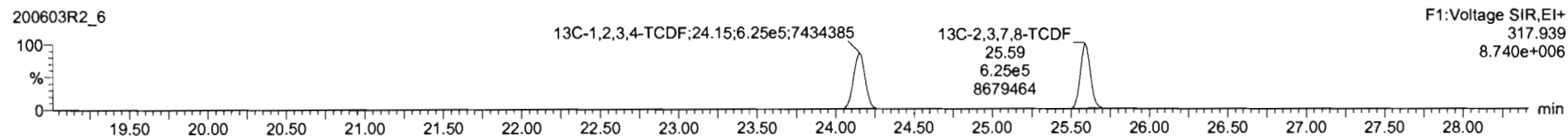
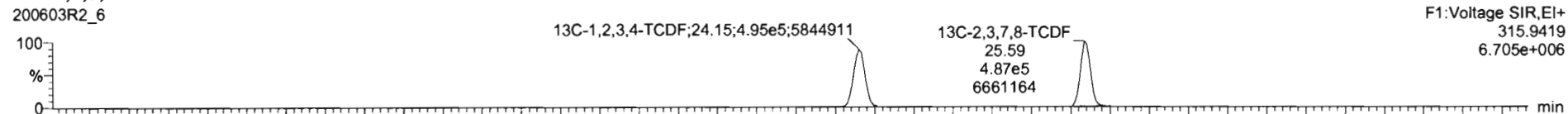
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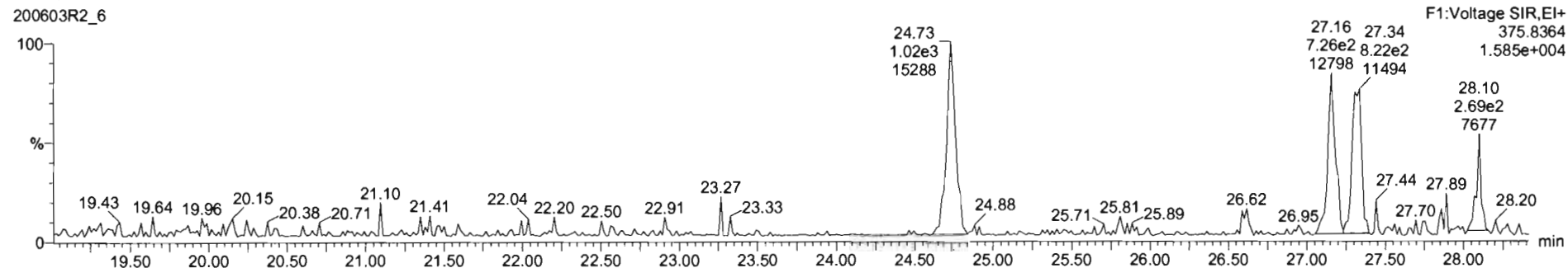
2,3,7,8-TCDF



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

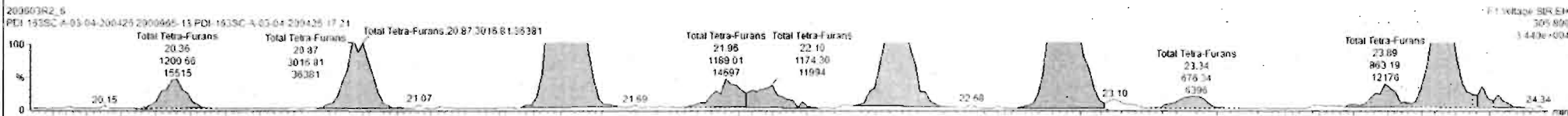
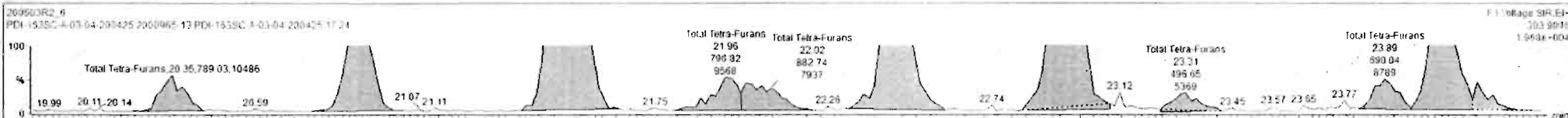


DPE1



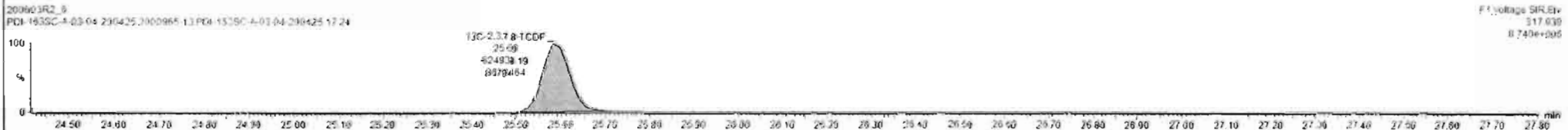
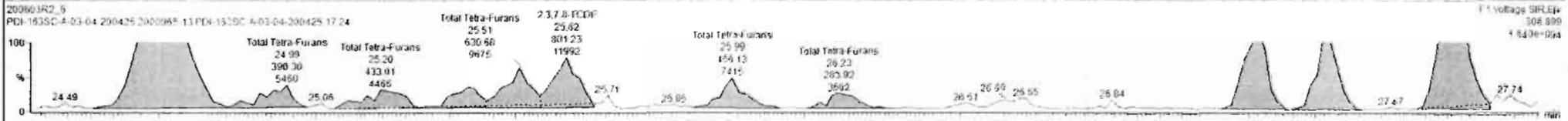
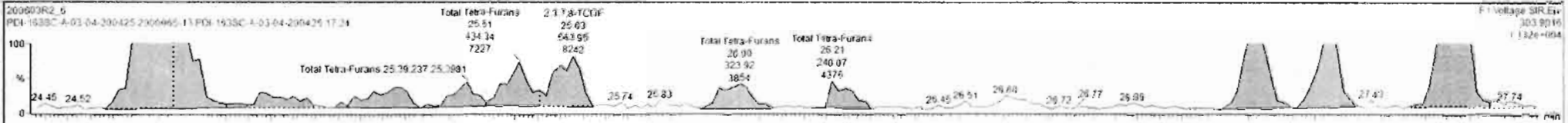
Name	Resp	RA	nly	RRF	ndVol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.9535	10.384			5.15		0.207	5.15
43 Total Tetra-Furans				0.7510	10.324			19.6		6.162	20.7

Name	RT	mI Resp	mC Resp	RA	nly	EMPC	Conc
1 Total Tetra-Furans	20.35	7.890e2	1.201e3	0.66	NO	0.45908	0.45908
2 Total Tetra-Furans	20.89	2.145e3	3.017e3	0.70	NO	1.2400	1.2400
3 Total Tetra-Furans	21.50	1.105e4	1.382e4	0.80	NO	5.7445	5.7445
4 Total Tetra-Furans	21.96	7.962e2	1.130e3	0.67	NO	0.45619	0.45619
5 Total Tetra-Furans	22.02	8.827e2	1.174e3	0.75	NO	0.47482	0.47482
6 Total Tetra-Furans	22.02	8.850e2	1.161e3	0.75	NO	0.47679	0.47679
7 Total Tetra-Furans	22.46	3.575e3	5.120e3	0.70	NO	2.0980	2.0980
8 Total Tetra-Furans	22.96	5.762e2	7.852e3	0.74	NO	3.1458	3.1458
9 Total Tetra-Furans	23.31	4.966e2	6.763e2	0.73	NO	0.27064	0.27064
10 Total Tetra-Furans	23.89	6.800e2	8.632e2	0.80	NO	0.35038	0.35038
11 Total Tetra-Furans	24.07	3.208e3	4.520e3	0.71	NO	1.7831	1.7831
12 Total Tetra-Furans	24.16	3.759e2	5.467e2	0.69	NO	0.21333	0.00000



Name	Resp	RA	rvy	RRF	rvol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.8839	10.384			5.15	0.207	5.15	
43 Total Tetra-Furans				0.7510	10.324			26.2		0.162	20.6

Name	RT	ml Resp	nl Resp	RA	rvy	EMPC	Conc
12 Total Tetra-Furans	24.69	2.141e3	2.902e3	0.72	NO	1.1774	1.1774
13 Total Tetra-Furans	24.93	2.497e2	3.901e2	0.64	YES	0.13241	0.00000
14 Total Tetra-Furans	25.23	1.292e2	4.330e2	0.76	NO	0.17568	0.17568
15 Total Tetra-Furans	25.39	2.373e2	3.584e2	0.68	NO	0.13244	0.13744
16 Total Tetra-Furans	25.51	4.345e2	6.307e2	0.69	NO	0.24673	0.24573
17 2,3,7,8-TCDF	25.67	5.640e2	8.017e2	0.70	NO	0.31499	0.31499
18 Total Tetra-Furans	26.00	3.275e2	4.561e2	0.71	NO	0.17998	0.17998
19 Total Tetra-Furans	26.21	2.401e2	2.839e2	0.85	NO	0.12090	0.12090
20 Total Tetra-Furans	27.17	8.485e2	1.111e3	0.76	NO	0.45225	0.45225
21 Total Tetra-Furans	27.34	7.587e2	9.907e2	0.76	NO	0.40318	0.40316
22 Total Tetra-Furans	27.62	1.831e3	2.468e3	0.74	NO	0.99179	0.99175



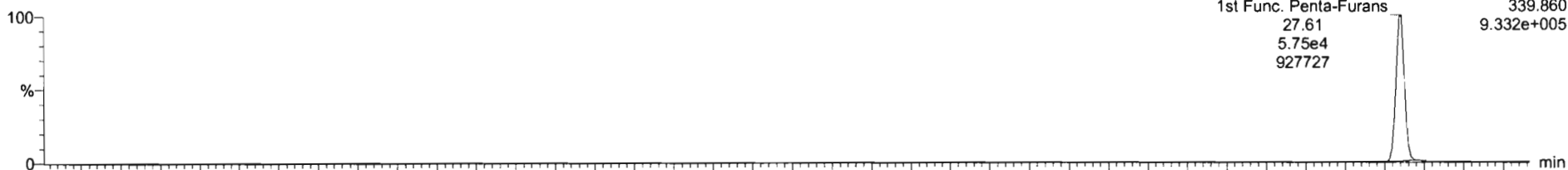
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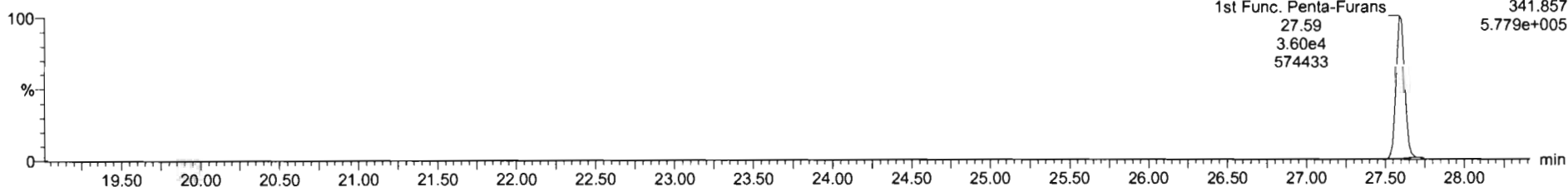
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1st Func. Penta-Furans

200603R2_6

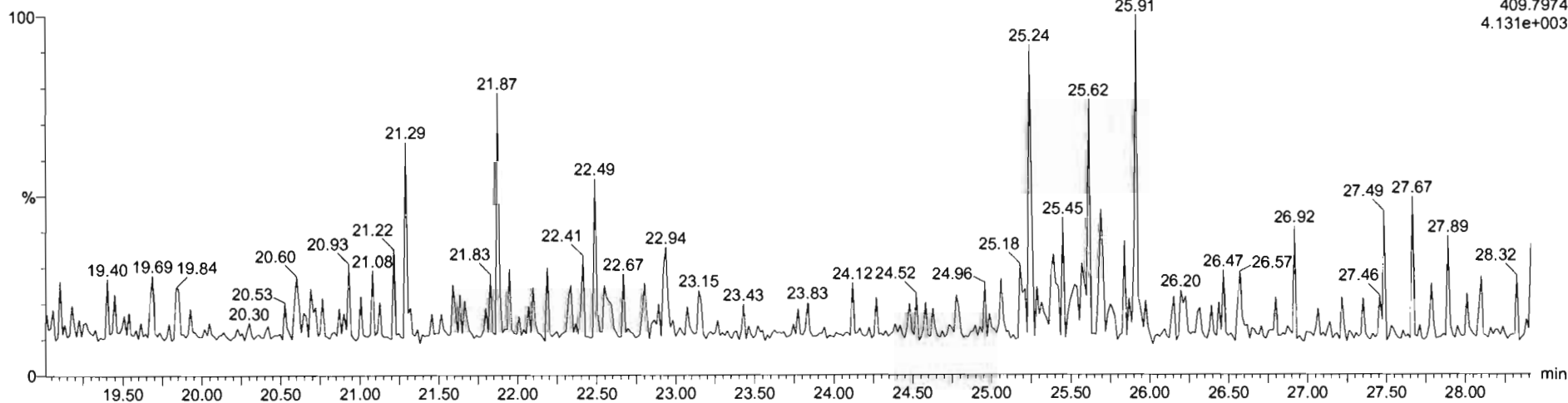


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DPE6

200603R2_6

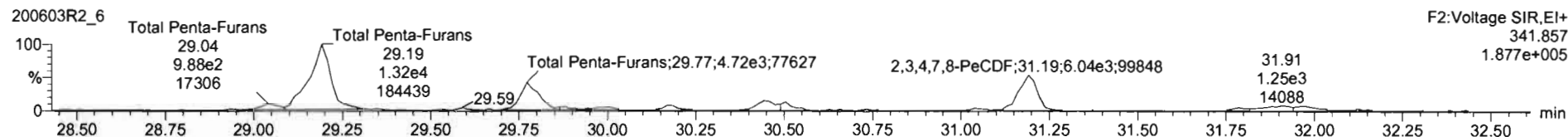
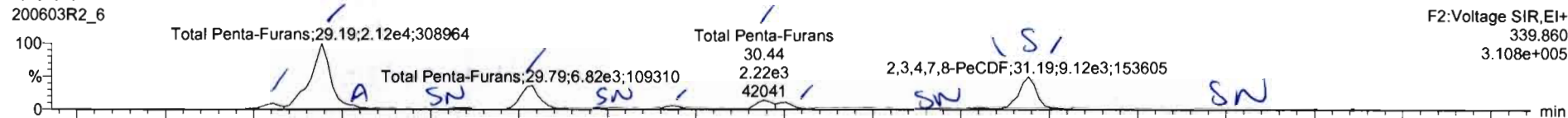


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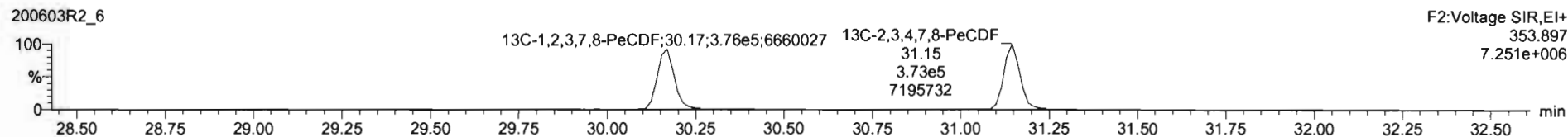
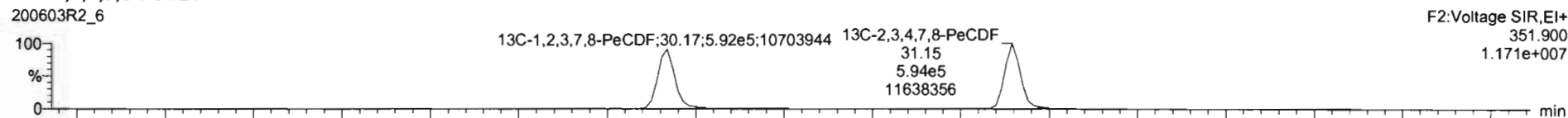
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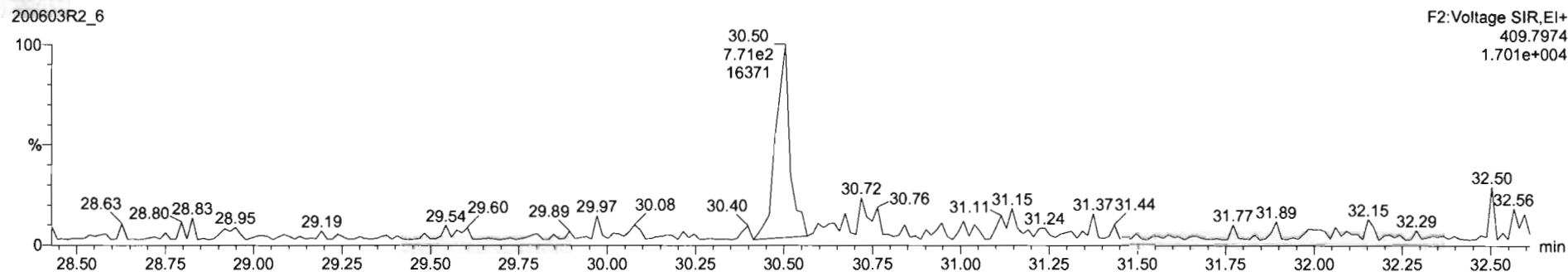
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13C-1,2,3,7,8-PeCDF

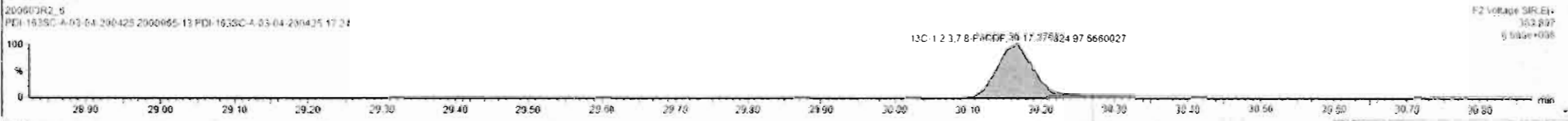
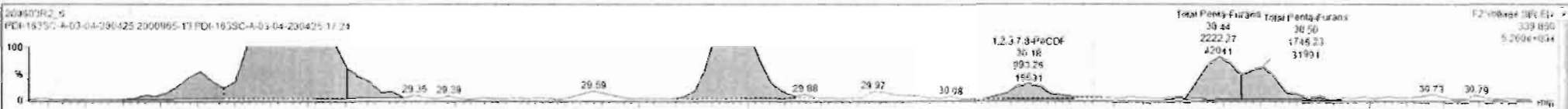


DPE2



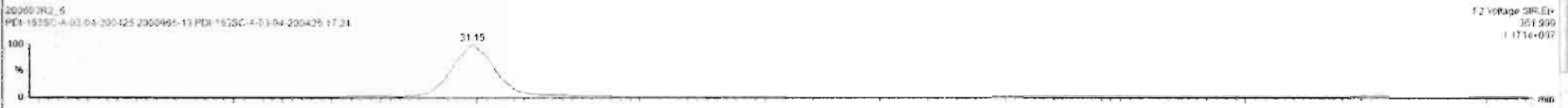
#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.6925	10.384			15.9		0.133	15.9
46	Total Hexa-Furans				0.9341	10.334			17.6		0.124	18.0

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Furans	29.06	1.51E3	9.80E2	1.54	NO	0.55918	0.55918
2	Total Penta-Furans	29.19	2.03E4	1.28E4	1.58	NO	7.3963	7.3963
3	Total Penta-Furans	29.25	8.77E2	5.75E2	1.65	NO	0.34748	0.34748
4	Total Penta-Furans	29.79	6.75E3	4.68E3	1.47	NO	2.5410	2.5410
5	1,2,3,7,8-PeCDF	30.18	9.93E2	6.97E2	1.42	NO	0.37708	0.37708
6	Total Penta-Furans	30.44	2.22E3	1.44E3	1.54	NO	0.81879	0.81879
7	Total Penta-Furans	30.50	1.74E3	1.04E3	1.67	NO	0.82295	0.82295
8	2,3,4,7,8-PeCDF	31.19	9.12E2	6.04E2	1.51	NO	3.2315	3.2315



Name	Resp	RA	nHy	RRF	Actual	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.6925	10.304			15.9		0.130	15.9
48 Total Hexa-Furans				0.9241	10.224			17.8		0.124	18.0

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1 Total Penta-Furans	29.06	1.510e3	9.802e2	1.54	NO	0.05918	0.05918
2 Total Penta-Furans	29.19	2.032e4	1.263e4	1.58	NO	7.3983	7.3983
3 Total Penta-Furans	28.25	9.777e2	5.793e2	1.65	NO	0.34748	0.34748
4 Total Penta-Furans	29.79	6.780e3	4.488e3	1.47	NO	2.5412	2.5412
5 1,2,3,7,8-PeCDF	30.18	9.933e2	6.971e2	1.42	NO	0.27708	0.27708
6 Total Penta-Furans	30.44	2.222e3	1.447e3	1.54	NO	0.81879	0.81879
7 Total Penta-Furans	30.50	7.345e3	1.047e3	1.67	NO	0.62265	0.62265
8 2,3,4,7,8-PeCDF	31.19	6.831e3	4.545e3	1.50	NO	2.4243	2.4243
9 Total Penta-Furans	31.21	2.110e3	1.481e3	1.42	NO	0.80142	0.80142

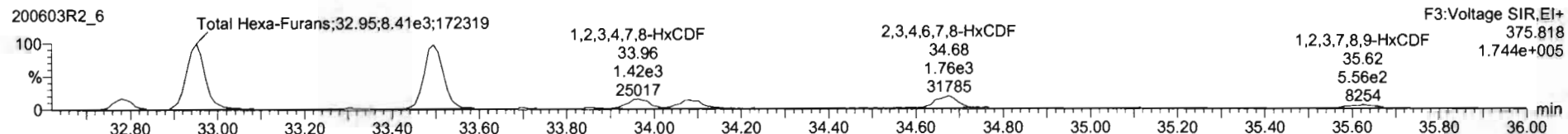
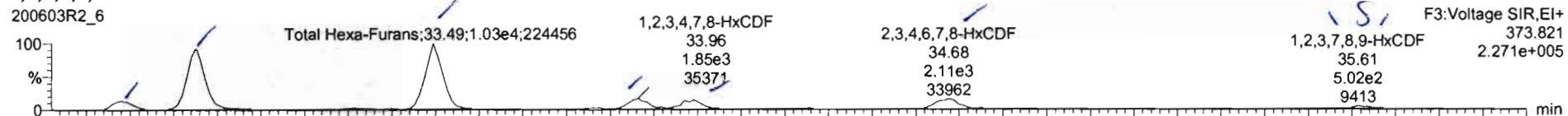


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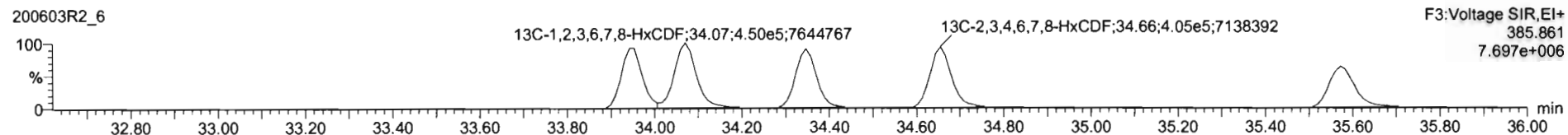
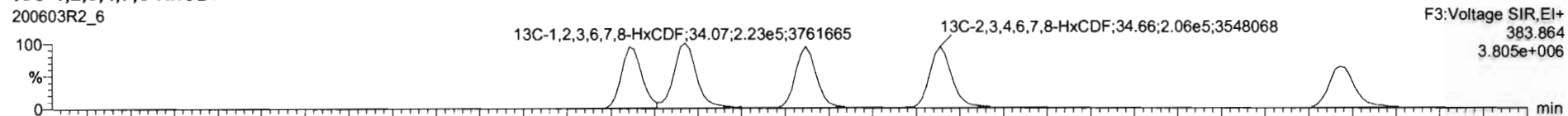
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Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

Name: 200603R2_6, Date: 03-Jun-2020, Time: 23:43:52, ID: 2000965-13 PDI-163SC-A-03-04-200425 17.24, Description: PDI-163SC-A-03-04-200425

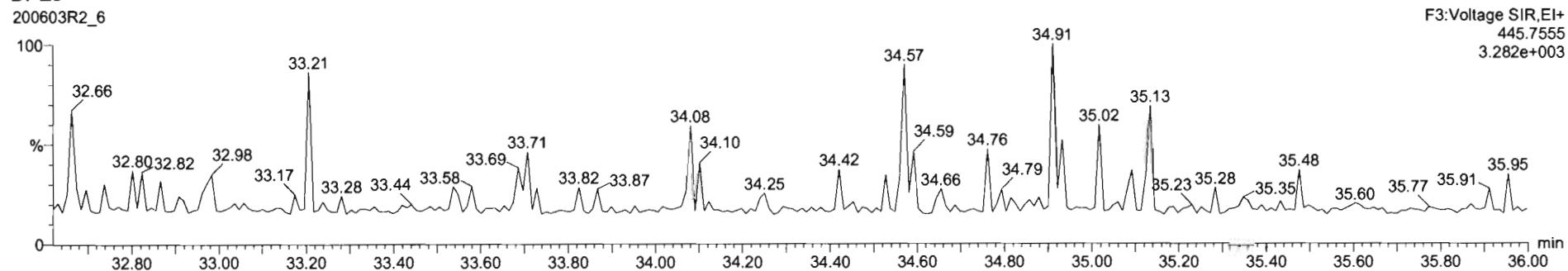
1,2,3,4,7,8-HxCDF



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

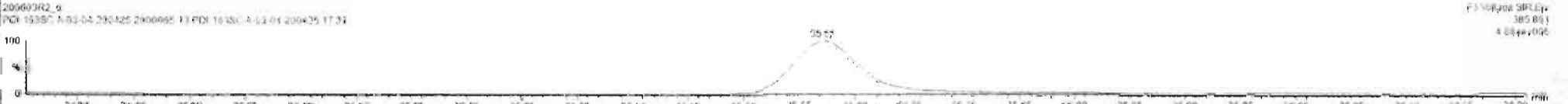


DPE3



Name	Comp	RA	ny	ny	wval	RT	QRT	Conc	Area	DL	EMPC
45 Total Hexa-Furans						10.364		16.9	8.133	15.5	
46 Total Hexa-Furans				0.9541		10.364		12.2	8.126	18.0	

Name	RT	nt Resp	mc Resp	RA	ny	EMPC	Conc
1 Total Hexa-Furans	32.76	1.67e1	1.26e3	1.21	NO	1.0013	1.0613
2 Total Hexa-Furans	37.96	9.967e3	8.467e3	1.15	NO	8.3799	8.3799
3 Total Hexa-Furans	33.40	1.025e4	8.701e3	1.19	NO	6.6146	6.6146
4 1,2,3,4,7,8-HxCDF	33.96	1.849e3	1.418e3	1.20	NO	1.2219	1.2219
5 1,2,3,6,7,8-HxCDF	34.00	1.792e1	1.355e3	1.52	NO	1.0132	1.0132
6 2,3,4,6,7,8-HxCDF	34.80	2.111e2	1.764e3	1.20	NO	1.3891	1.3891
7 1,2,3,7,8-HxCDF	35.61	2.905e2	2.739e2	1.08	NO	6.24771	6.24771
8 Total Hexa-Furans	35.62	2.792e2	2.521e2	1.07	NO	8.12171	8.12171

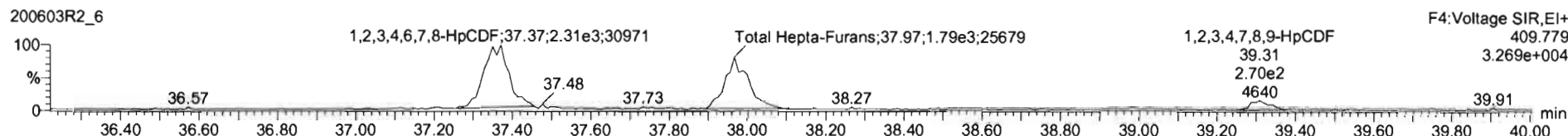
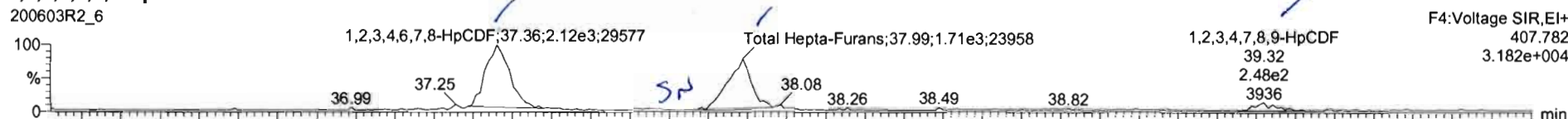


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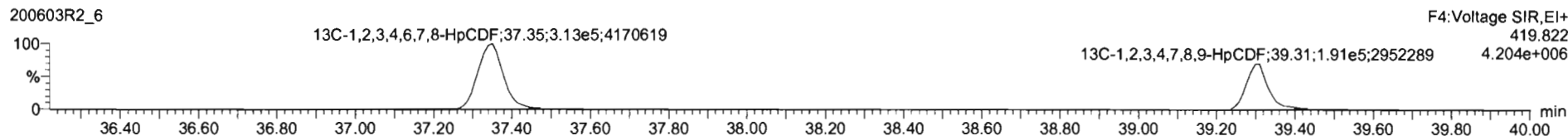
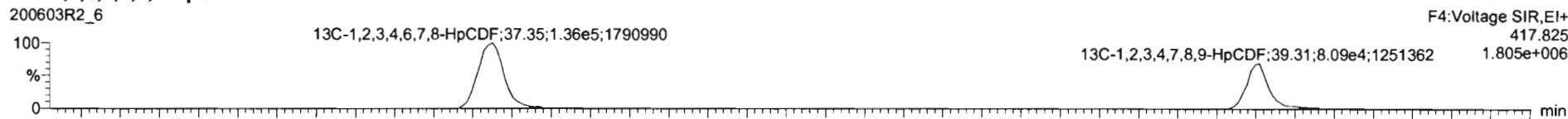
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Name: 200603R2_6, Date: 03-Jun-2020, Time: 23:43:52, ID: 2000965-13 PDI-163SC-A-03-04-200425 17.24, Description: PDI-163SC-A-03-04-200425

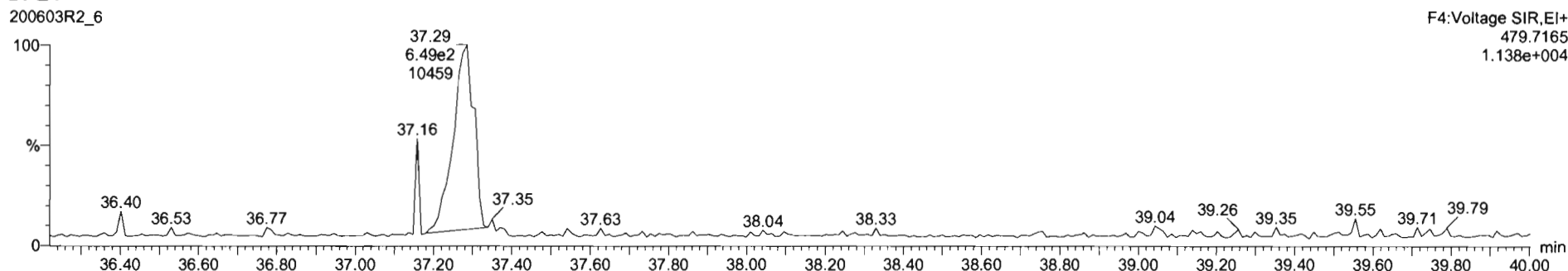
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13C-1,2,3,4,6,7,8-HpCDF

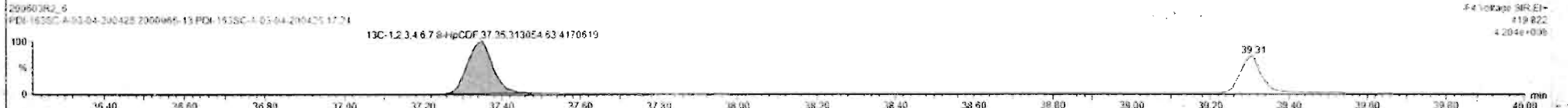
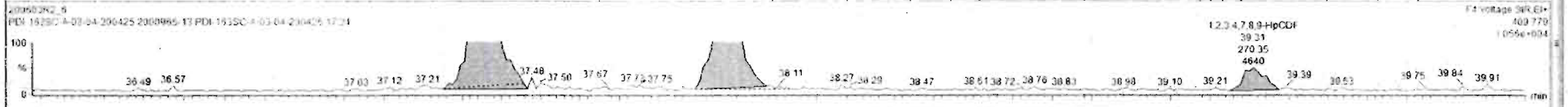
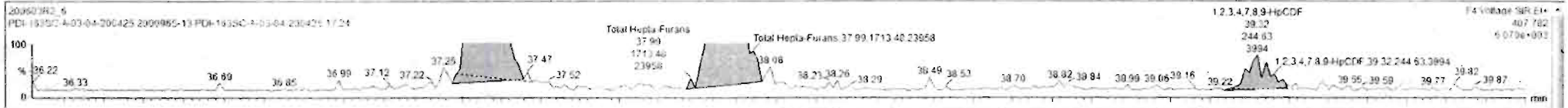


DPE4



#	Name	Resp	RA	Qty	RPD	Signal	RT	RET	Conc	%Rec	DL	EMPL
45	Total Hepta-Furans				0.8525	15.384			15.9		8.133	15.5
46	Total Hepta-Furans				0.9341	15.384			16.0		8.124	15.5

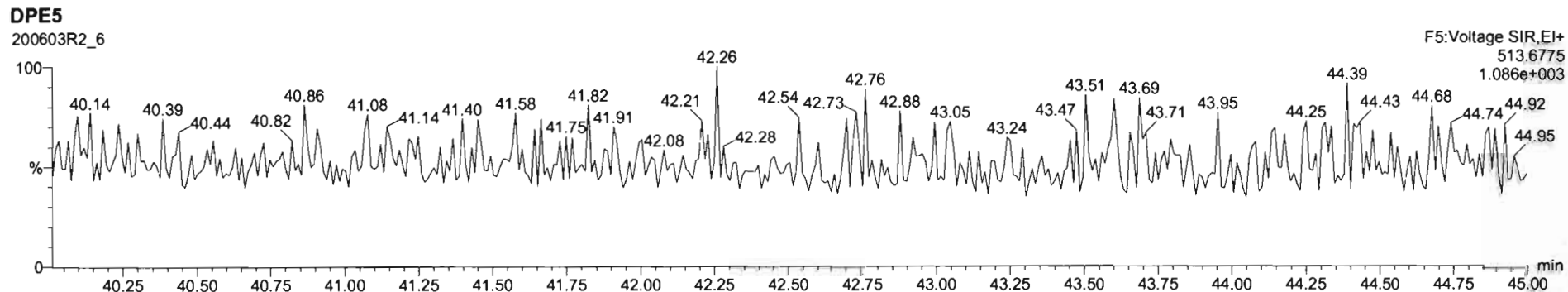
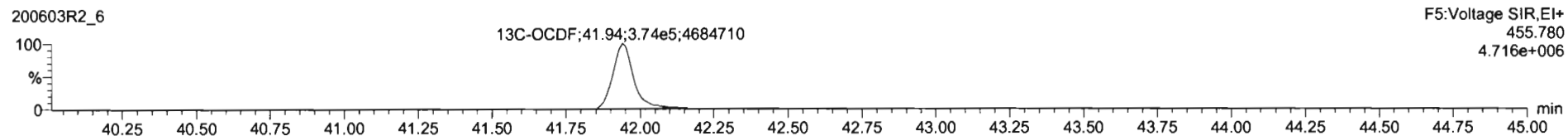
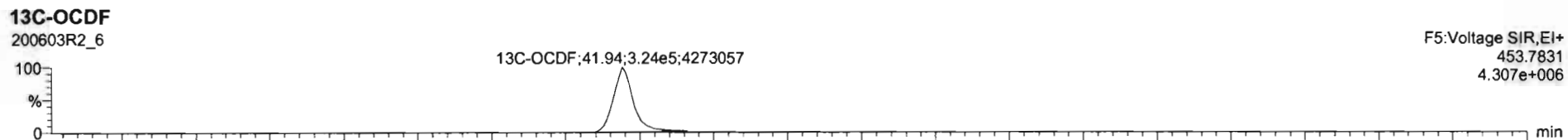
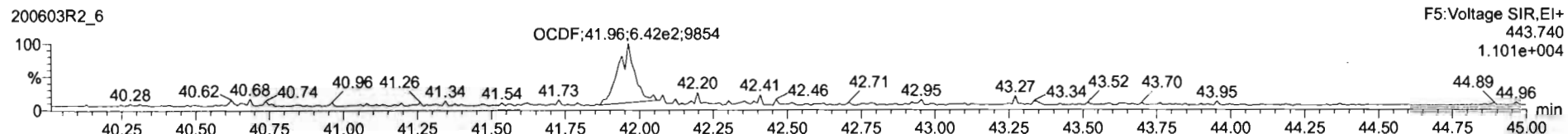
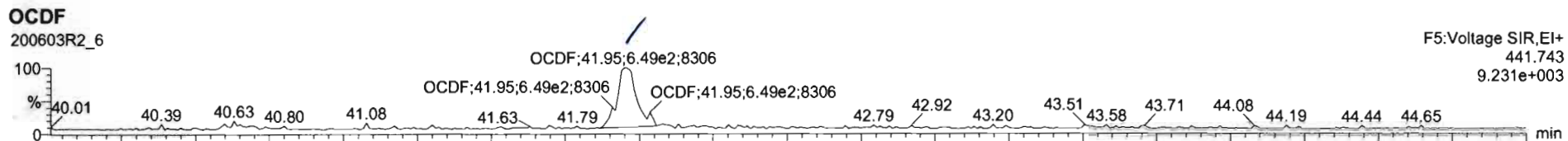
#	Name	RT	m1 Resp	m2 Resp	RA	Qty	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	37.36	2.191e3	2.438e3	0.90	NO3	2.2724	2.2724
2	Total Hepta-Furans	37.99	1.713e3	1.599e3	1.01	NO3	2.0367	2.0367
3	1,2,3,4,7,8,9-HpCDF	39.32	2.446e2	2.703e2	0.93	NO3	6.5569	6.5569



Dataset: Untitled

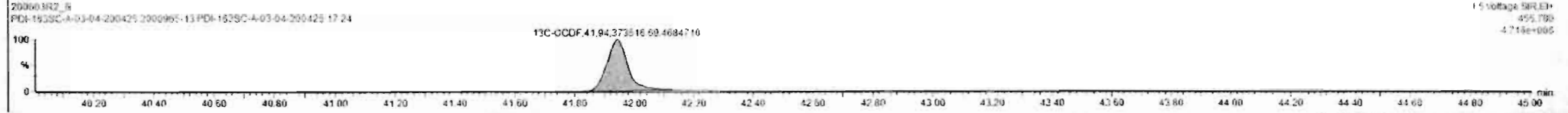
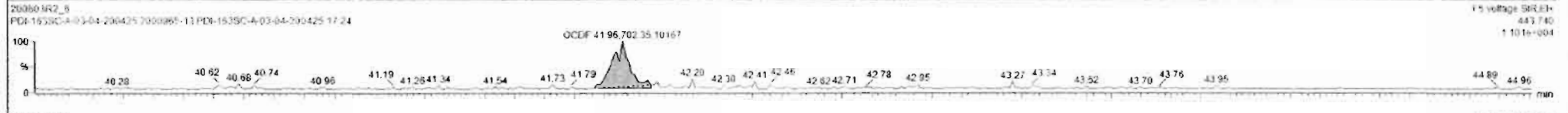
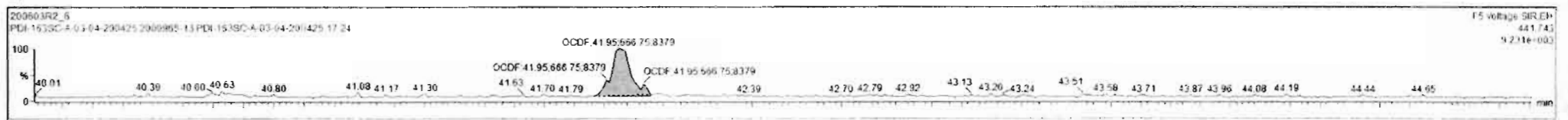
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Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

Name: 200603R2_6, Date: 03-Jun-2020, Time: 23:43:52, ID: 2000965-13 PDI-163SC-A-03-04-200425 17.24, Description: PDI-163SC-A-03-04-200425



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF	1.37e3	0.85	NO	0.6065	10.384	41.95	1.000	0.933	0.112	0.932
18	13C-2,3,7,8-TCDD	5.83e5	0.75	NO	1.1561	10.384	26.48	1.026	195	101	0.194

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



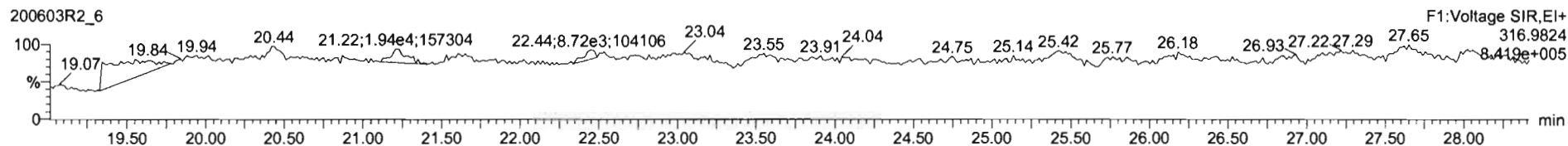
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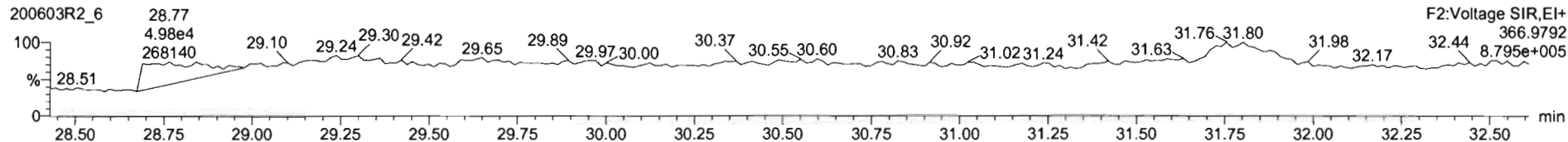
Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

Name: 200603R2_6, Date: 03-Jun-2020, Time: 23:43:52, ID: 2000965-13 PDI-163SC-A-03-04-200425 17.24, Description: PDI-163SC-A-03-04-200425

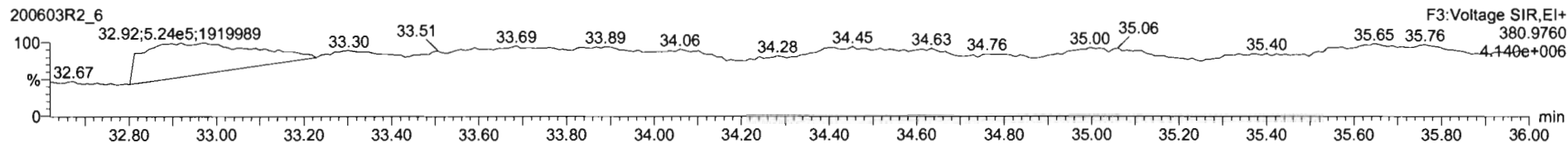
PFK1



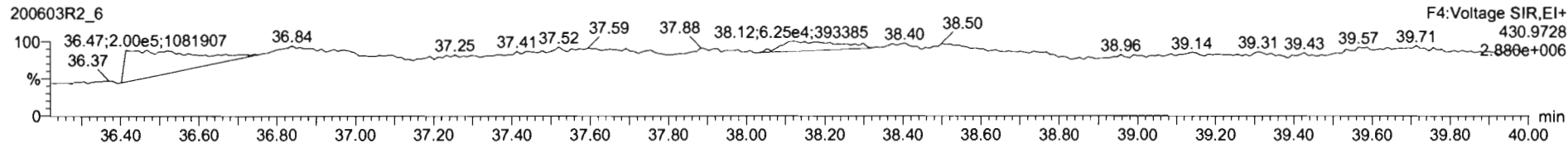
PFK2



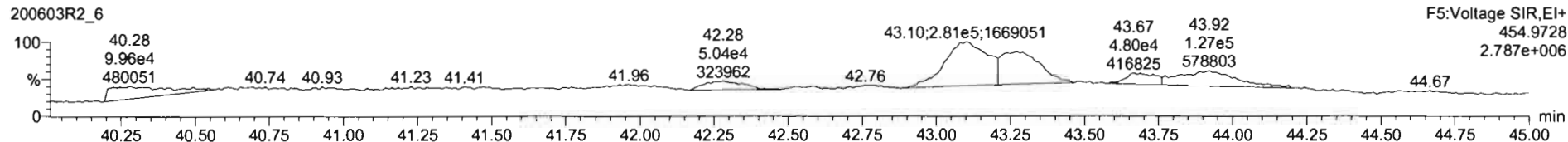
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R2\200603R2-7.qld

Last Altered: Thursday, June 04, 2020 10:08:57 Pacific Daylight Time

Printed: Thursday, June 04, 2020 10:09:31 Pacific Daylight Time

GRB 06/04/2020

CT06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_7, Date: 04-Jun-2020, Time: 00:30:08, ID: 2000965-14 PDI-163SC-A-04-05-200425 15.92, Description: PDI-163SC-A-04-05-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.62e2	0.54	YES	0.888	10.024	26.531	26.51	1.001	1.001	0.20176		0.0685	0.162
2	1,2,3,7,8-PeCDD	1.59e3	0.68	NO	0.908	10.024	31.473	31.48	1.001	1.001	0.52472		0.0986	0.525
3	1,2,3,4,7,8-HxCDD	4.79e2	1.17	NO	1.03	10.024	34.846	34.85	1.000	1.000	0.19927		0.139	0.199
4	4,1,2,3,6,7,8-HxCDD	1.81e3	1.16	NO	0.892	10.024	34.943	34.95	1.000	1.000	0.72977		0.147	0.730
5	5,1,2,3,7,8,9-HxCDD	8.39e2	1.40	NO	0.887	10.024	35.231	35.24	1.000	1.001	0.37638		0.167	0.376
6	6,1,2,3,4,6,7,8-HpCDD	9.40e3	1.04	NO	0.864	10.024	38.768	38.77	1.000	1.000	5.8850		0.185	5.88
7	7 OCDD	1.11e5	0.84	NO	0.914	10.024	41.748	41.77	1.000	1.001	76.407		0.371	76.4
8	8,2,3,7,8-TCDF	8.73e3	0.69	NO	0.751	10.024	25.627	25.63	1.001	1.001	1.8972	(1.55)	0.0738	1.90
9	9,1,2,3,7,8-PeCDF	8.01e3	1.47	NO	0.893	10.024	30.190	30.18	1.001	1.000	1.8168		0.145	1.82
10	10,2,3,4,7,8-PeCDF	1.30e4	1.52	NO	0.935	10.024	31.192	31.19	1.001	1.001	2.7287		0.130	2.73
11	11,1,2,3,4,7,8-HxCDF	6.98e3	1.26	NO	0.884	10.024	33.963	33.96	1.000	1.000	2.7183		0.118	2.72
12	12,1,2,3,6,7,8-HxCDF	3.97e3	1.29	NO	0.889	10.024	34.090	34.09	1.000	1.000	1.3515		0.110	1.35
13	13,2,3,4,6,7,8-HxCDF	4.60e3	1.14	NO	0.934	10.024	34.701	34.69	1.001	1.001	1.5747		0.117	1.57
14	14,1,2,3,7,8,9-HxCDF	1.01e3	1.22	NO	0.871	10.024	35.582	35.63	1.000	1.001	0.46286		0.175	0.463
15	15,1,2,3,4,6,7,8-HpCDF	1.00e4	1.00	NO	0.873	10.024	37.386	37.37	1.001	1.001	5.5078		0.127	5.51
16	16,1,2,3,4,7,8,9-HpCDF	9.84e2	1.03	NO	1.01	10.024	39.309	39.32	1.000	1.000	0.69987		0.137	0.700
17	17 OCDF	8.81e3	0.92	NO	0.806	10.024	41.951	41.95	1.000	1.000	5.9075		0.176	5.91
18	18 13C-2,3,7,8-TCDD	9.59e5	0.78	NO	1.16	10.024	26.522	26.50	1.026	1.026	226.07	113	0.177	
19	19 13C-1,2,3,7,8-PeCDD	6.66e5	0.64	NO	0.849	10.024	31.711	31.45	1.227	1.217	213.85	107	0.248	
20	20 13C-1,2,3,4,7,8-HxCDD	4.64e5	1.28	NO	0.779	10.024	34.841	34.84	1.014	1.014	219.41	110	0.523	
21	21 13C-1,2,3,6,7,8-HxCDD	5.56e5	1.28	NO	1.02	10.024	34.955	34.94	1.017	1.017	201.38	101	0.401	
22	22 13C-1,2,3,7,8,9-HxCDD	5.01e5	1.22	NO	0.903	10.024	35.226	35.22	1.025	1.025	204.65	103	0.452	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.69e5	1.08	NO	0.689	10.024	38.751	38.76	1.128	1.128	197.32	98.9	0.540	
24	24 13C-OCDD	6.36e5	0.87	NO	0.652	10.024	41.775	41.75	1.216	1.215	359.20	90.0	0.520	
25	25 13C-2,3,7,8-TCDF	1.22e6	0.78	NO	1.06	10.024	25.564	25.60	0.989	0.991	213.20	107	0.255	
26	26 13C-1,2,3,7,8-PeCDF	9.86e5	1.63	NO	0.838	10.024	30.093	30.17	1.165	1.168	217.31	109	0.622	
27	27 13C-2,3,4,7,8-PeCDF	1.02e6	1.54	NO	0.817	10.024	31.047	31.16	1.202	1.206	229.91	115	0.638	
28	28 13C-1,2,3,4,7,8-HxCDF	5.79e5	0.50	NO	1.01	10.024	33.972	33.96	0.989	0.989	211.83	106	0.752	
29	29 13C-1,2,3,6,7,8-HxCDF	6.60e5	0.52	NO	1.17	10.024	34.096	34.08	0.992	0.992	208.28	104	0.649	
30	30 13C-2,3,4,6,7,8-HxCDF	6.24e5	0.50	NO	1.02	10.024	34.670	34.67	1.009	1.009	224.98	113	0.741	
31	31 13C-1,2,3,7,8,9-HxCDF	4.99e5	0.51	NO	0.860	10.024	35.570	35.58	1.035	1.036	213.78	107	0.881	

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-7.qld

Last Altered: Thursday, June 04, 2020 10:08:57 Pacific Daylight Time

Printed: Thursday, June 04, 2020 10:09:31 Pacific Daylight Time

Name: 200603R2_7, Date: 04-Jun-2020, Time: 00:30:08, ID: 2000965-14 PDI-163SC-A-04-05-200425 15.92, Description: PDI-163SC-A-04-05-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.17e5	0.44	NO	0.774	10.024	37.319	37.35	1.086	1.087	198.21	99.3	0.621	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.77e5	0.43	NO	0.521	10.024	39.349	39.31	1.145	1.144	195.83	98.1	0.923	
34	34 13C-OCDF	7.38e5	0.87	NO	0.746	10.024	41.946	41.95	1.221	1.221	364.54	91.4	0.527	
35	35 37Cl-2,3,7,8-TCDD	3.06e5			1.04	10.024	26.553	26.51	1.028	1.026	80.450	101	0.0645	
36	36 13C-1,2,3,4-TCDD	7.32e5	0.80	NO	1.00	10.024	25.890	25.84	1.000	1.000	199.53	100	0.205	
37	37 13C-1,2,3,4-TCDF	1.08e6	0.78	NO	1.00	10.024	24.360	24.16	1.000	1.000	199.53	100	0.270	
38	38 13C-1,2,3,4,6,9-HxCDF	5.41e5	0.50	NO	1.00	10.024	34.420	34.36	1.000	1.000	199.53	100	0.758	
39	39 Total Tetra-Dioxins				0.888	10.024	24.620		0.000		2.6658		0.0655	2.94
40	40 Total Penta-Dioxins				0.908	10.024	29.960		0.000		3.2163		0.0986	5.44
41	41 Total Hexa-Dioxins				0.892	10.024	33.635		0.000		8.2379		0.157	8.24
42	42 Total Hepta-Dioxins				0.864	10.024	37.640		0.000		14.269		0.185	14.3
43	43 Total Tetra-Furans				0.751	10.024	23.610		0.000		23.976		0.0738	24.0
44	44 1st Func. Penta-Furans				0.893	10.024	27.580		0.000		22.549		0.0322	22.5
45	45 Total Penta-Furans				0.893	10.024	29.275		0.000		11.391		0.141	20.7
46	46 Total Hexa-Furans				0.934	10.024	33.555		0.000		22.737		0.122	22.7
47	47 Total Hepta-Furans				0.873	10.024	37.835		0.000		12.549		0.140	12.5

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-7.qld

Last Altered: Thursday, June 04, 2020 10:08:57 Pacific Daylight Time

Printed: Thursday, June 04, 2020 10:09:31 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_7, Date: 04-Jun-2020, Time: 00:30:08, ID: 2000965-14 PDI-163SC-A-04-05-200425 15.92, Description: PDI-163SC-A-04-05-200425

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.52	1.204e4	1.842e4	1.113e3	1.666e3	0.67	NO	2.779e3	0.65071	0.65071	0.0655
2	Total Tetra-Dioxins	22.94	6.315e3	1.208e4	5.839e2	7.739e2	0.75	NO	1.358e3	0.31796	0.31796	0.0655
3	Total Tetra-Dioxins	23.48	3.747e3	5.341e3	3.467e2	4.151e2	0.84	NO	7.618e2	0.17837	0.17837	0.0655
4	Total Tetra-Dioxins	24.33	4.192e3	5.674e3	3.062e2	3.820e2	0.80	NO	6.882e2	0.16114	0.16114	0.0655
5	Total Tetra-Dioxins	24.61	6.579e3	9.468e3	5.834e2	7.990e2	0.73	NO	1.382e3	0.32370	0.32370	0.0655
6	Total Tetra-Dioxins	24.82	8.850e3	1.268e4	6.565e2	9.386e2	0.70	NO	1.595e3	0.37351	0.37351	0.0655
7	Total Tetra-Dioxins	25.02	3.074e3	3.034e3	1.609e2	1.858e2	0.87	NO	3.467e2	0.081171	0.081171	0.0655
8	Total Tetra-Dioxins	25.27	3.174e3	5.062e3	2.502e2	2.760e2	0.91	YES	0.000e0	0.00000	0.11439	0.0655
9	Total Tetra-Dioxins	25.45	4.658e3	4.343e3	2.854e2	3.400e2	0.84	NO	6.255e2	0.14645	0.14645	0.0655
10	Total Tetra-Dioxins	25.83	2.840e3	4.090e3	2.827e2	3.265e2	0.87	NO	6.092e2	0.14265	0.14265	0.0655
11	Total Tetra-Dioxins	26.24	3.611e3	6.318e3	3.280e2	4.475e2	0.73	NO	7.755e2	0.18158	0.18158	0.0655
12	2,3,7,8-TCDD	26.51	4.002e3	8.876e3	3.012e2	5.604e2	0.54	YES	8.616e2	0.00000	0.16213	0.0655
13	Total Tetra-Dioxins	26.84	3.499e3	4.703e3	1.983e2	2.652e2	0.75	NO	4.635e2	0.10853	0.10853	0.0655

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.27	2.786e4	5.103e4	1.862e3	2.966e3	0.63	NO	4.828e3	1.5923	1.5923	0.0986
2	Total Penta-Dioxins	29.73	4.680e3	7.250e3	2.455e2	4.056e2	0.61	NO	6.511e2	0.21473	0.21473	0.0986
3	Total Penta-Dioxins	30.23	2.364e4	2.958e4	1.358e3	1.635e3	0.83	YES	0.000e0	0.00000	0.87883	0.0986
4	Total Penta-Dioxins	30.38	1.483e4	2.519e4	9.146e2	1.386e3	0.66	NO	2.301e3	0.75877	0.75877	0.0986
5	Total Penta-Dioxins	30.47	1.114e4	1.271e4	5.760e2	7.445e2	0.77	YES	0.000e0	0.00000	0.40026	0.0986
6	Total Penta-Dioxins	30.70	7.442e3	1.505e4	3.111e2	5.418e2	0.57	NO	0.000e0	0.00000	0.28129	0.0986
7	Total Penta-Dioxins	30.75	9.577e3	1.484e4	4.729e2	6.607e2	0.72	NO	0.000e0	0.00000	0.37387	0.0986
8	Total Penta-Dioxins	31.02	3.825e3	3.607e3	1.903e2	2.290e2	0.83	YES	0.000e0	0.00000	0.12313	0.0986
9	1,2,3,7,8-PeCDD	31.48	1.217e4	1.749e4	6.463e2	9.447e2	0.68	NO	1.591e3	0.52472	0.52472	0.0986
10	Total Penta-Dioxins	31.53	2.698e3	5.697e3	1.354e2	2.460e2	0.55	NO	3.814e2	0.12579	0.12579	0.0986
11	Total Penta-Dioxins	31.85	4.684e3	4.961e3	2.644e2	3.022e2	0.87	YES	0.000e0	0.00000	0.16246	0.0986

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-7.qld

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Name: 200603R2_7, Date: 04-Jun-2020, Time: 00:30:08, ID: 2000965-14 PDI-163SC-A-04-05-200425 15.92, Description: PDI-163SC-A-04-05-200425

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	6.525e4	5.449e4	3.201e3	2.734e3	1.17	NO	5.935e3	2.6179	2.6179	0.157
2	Total Hexa-Dioxins	33.90	1.114e4	1.080e4	7.481e2	5.520e2	1.36	NO	1.300e3	0.57347	0.57347	0.157
3	Total Hexa-Dioxins	34.17	7.433e4	5.784e4	4.815e3	3.666e3	1.31	NO	8.481e3	3.7411	3.7411	0.157
4	1,2,3,4,7,8-HxCDD	34.85	3.538e3	4.232e3	2.579e2	2.208e2	1.17	NO	4.787e2	0.19927	0.19927	0.139
5	1,2,3,6,7,8-HxCDD	34.95	1.813e4	1.485e4	9.746e2	8.387e2	1.16	NO	1.813e3	0.72977	0.72977	0.147
6	1,2,3,7,8,9-HxCDD	35.24	7.784e3	6.419e3	4.889e2	3.498e2	1.40	NO	8.388e2	0.37638	0.37638	0.167

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.75	8.731e4	8.804e4	6.814e3	6.583e3	1.04	NO	1.340e4	8.3840	8.3840	0.185
2	1,2,3,4,6,7,8-HpCDD	38.77	7.235e4	6.226e4	4.795e3	4.609e3	1.04	NO	9.404e3	5.8850	5.8850	0.185

Vista Analytical Laboratory

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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	20.36	8.499e3	1.052e4	5.803e2	7.775e2	0.75	NO	1.358e3	0.29519	0.29519	0.0738
2	Total Tetra-Furans	20.90	2.959e4	4.189e4	2.122e3	2.858e3	0.74	NO	4.981e3	1.0828	1.0828	0.0738
3	Total Tetra-Furans	21.51	1.235e5	1.634e5	1.054e4	1.431e4	0.74	NO	2.485e4	5.4021	5.4021	0.0738
4	Total Tetra-Furans	21.98	9.253e3	1.141e4	7.010e2	1.020e3	0.69	NO	1.721e3	0.37416	0.37416	0.0738
5	Total Tetra-Furans	22.05	8.743e3	1.111e4	9.389e2	1.085e3	0.87	NO	2.024e3	0.43997	0.43997	0.0738
6	Total Tetra-Furans	22.47	4.871e4	6.205e4	4.647e3	6.400e3	0.73	NO	1.105e4	2.4017	2.4017	0.0738
7	Total Tetra-Furans	22.95	6.325e4	8.154e4	6.128e3	8.156e3	0.75	NO	1.428e4	3.1054	3.1054	0.0738
8	Total Tetra-Furans	23.33	6.219e3	9.424e3	4.418e2	6.364e2	0.69	NO	1.078e3	0.23440	0.23440	0.0738
9	Total Tetra-Furans	23.89	6.737e3	8.227e3	5.264e2	7.241e2	0.73	NO	1.250e3	0.27186	0.27186	0.0738
10	Total Tetra-Furans	24.07	3.948e4	5.523e4	3.528e3	4.811e3	0.73	NO	8.339e3	1.8129	1.8129	0.0738
11	Total Tetra-Furans	24.18	1.031e4	1.255e4	5.756e2	7.413e2	0.78	NO	1.317e3	0.28631	0.28631	0.0738
12	Total Tetra-Furans	24.69	5.406e4	6.849e4	5.298e3	7.608e3	0.70	NO	1.291e4	2.8058	2.8058	0.0738
13	Total Tetra-Furans	24.97	5.338e3	7.125e3	3.457e2	5.082e2	0.68	NO	8.539e2	0.18564	0.18564	0.0738
14	Total Tetra-Furans	25.20	3.615e3	4.186e3	3.057e2	4.502e2	0.68	NO	7.559e2	0.16433	0.16433	0.0738
15	Total Tetra-Furans	25.41	4.399e3	6.980e3	2.375e2	3.623e2	0.66	NO	5.998e2	0.13040	0.13040	0.0738
16	Total Tetra-Furans	25.53	9.963e3	1.158e4	5.635e2	6.701e2	0.84	NO	1.234e3	0.26819	0.26819	0.0738
17	2,3,7,8-TCDF	25.63	5.023e4	6.495e4	3.556e3	5.171e3	0.69	NO	8.726e3	1.8972	1.8972	0.0738
18	Total Tetra-Furans	26.02	5.634e3	7.294e3	4.440e2	6.192e2	0.72	NO	1.063e3	0.23115	0.23115	0.0738
19	Total Tetra-Furans	26.63	4.882e3	5.547e3	2.540e2	2.967e2	0.86	NO	5.507e2	0.11973	0.11973	0.0738
20	Total Tetra-Furans	27.19	2.505e4	3.346e4	1.412e3	2.049e3	0.69	NO	3.461e3	0.75234	0.75234	0.0738
21	Total Tetra-Furans	27.34	2.000e4	2.503e4	1.142e3	1.621e3	0.70	NO	2.763e3	0.60061	0.60061	0.0738
22	Total Tetra-Furans	27.62	2.859e4	4.544e4	2.083e3	3.042e3	0.68	NO	5.126e3	1.1143	1.1143	0.0738

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	27.61	1.010e6	6.597e5	6.227e4	3.870e4	1.61	NO	1.010e5	22.549	22.549	0.0322

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.06	3.650e4	1.986e4	1.868e3	1.165e3	1.60	NO	3.033e3	0.67734	0.67734	0.141
2	Total Penta-Furans	29.21	3.239e5	1.958e5	2.175e4	1.362e4	1.60	NO	0.000e0	0.00000	7.8982	0.141
3	Total Penta-Furans	29.25	3.651e4	2.583e4	1.649e3	9.735e2	1.69	NO	0.000e0	0.00000	0.58580	0.141
4	Total Penta-Furans	29.79	1.270e5	8.356e4	7.670e3	4.999e3	1.53	NO	1.267e4	2.8296	2.8296	0.141
5	Total Penta-Furans	30.00	2.070e4	1.554e4	7.960e2	5.905e2	1.35	NO	1.386e3	0.30966	0.30966	0.141
6	1,2,3,7,8-PeCDF	30.18	8.585e4	5.991e4	4.767e3	3.243e3	1.47	NO	8.011e3	1.8168	1.8168	0.145
7	Total Penta-Furans	30.46	7.330e4	5.013e4	3.716e3	2.563e3	1.45	NO	6.279e3	1.4024	1.4024	0.141
8	Total Penta-Furans	30.50	4.350e4	2.965e4	2.138e3	1.491e3	1.43	NO	0.000e0	0.00000	0.81070	0.141
9	Total Penta-Furans	31.05	8.799e3	6.667e3	5.091e2	3.123e2	1.63	NO	8.213e2	0.18344	0.18344	0.141
10	2,3,4,7,8-PeCDF	31.19	1.757e5	1.083e5	7.835e3	5.156e3	1.52	NO	1.299e4	2.7287	2.7287	0.130
11	Total Penta-Furans	31.21	1.574e5	9.819e4	3.879e3	2.581e3	1.50	NO	6.460e3	1.4428	1.4428	0.141

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	3.933e4	3.661e4	2.090e3	1.764e3	1.18	NO	3.855e3	1.3947	1.3947	0.122
2	Total Hexa-Furans	32.96	2.650e5	1.917e5	1.229e4	9.760e3	1.26	NO	2.205e4	7.9779	7.9779	0.122
3	Total Hexa-Furans	33.50	2.241e5	1.715e5	1.079e4	8.800e3	1.23	NO	1.959e4	7.0868	7.0868	0.122
4	1,2,3,4,7,8-HxCDF	33.96	6.961e4	6.062e4	3.891e3	3.089e3	1.26	NO	6.979e3	2.7183	2.7183	0.118
5	1,2,3,6,7,8-HxCDF	34.09	3.686e4	3.142e4	2.238e3	1.735e3	1.29	NO	3.973e3	1.3515	1.3515	0.110
6	2,3,4,6,7,8-HxCDF	34.69	4.502e4	3.731e4	2.453e3	2.147e3	1.14	NO	4.600e3	1.5747	1.5747	0.117
7	1,2,3,7,8,9-HxCDF	35.63	1.237e4	8.662e3	5.534e2	4.539e2	1.22	NO	1.007e3	0.46286	0.46286	0.175
8	Total Hexa-Furans	35.65	9.001e3	7.603e3	2.559e2	2.137e2	1.20	NO	4.695e2	0.16989	0.16989	0.122

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	37.37	6.383e4	6.898e4	5.015e3	5.029e3	1.00	NO	1.004e4	5.5078	5.5078	0.127
2	Total Hepta-Furans	37.98	5.841e4	6.427e4	4.765e3	4.860e3	0.98	NO	9.625e3	6.3412	6.3412	0.140
3	1,2,3,4,7,8,9-HpCDF	39.32	7.365e3	7.857e3	4.981e2	4.855e2	1.03	NO	9.837e2	0.69987	0.69987	0.137

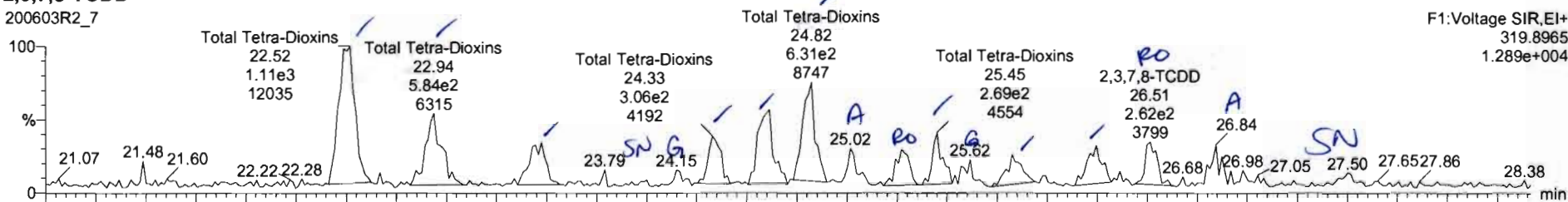
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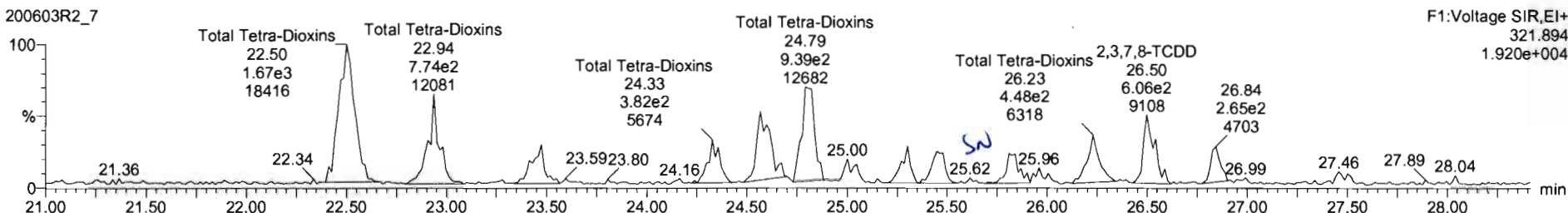
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200603R2_7



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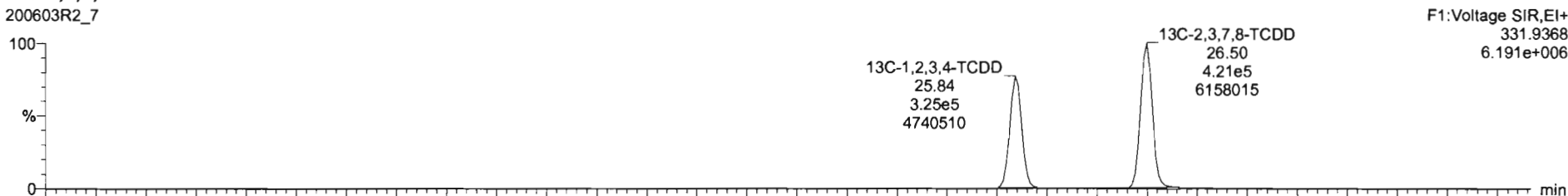
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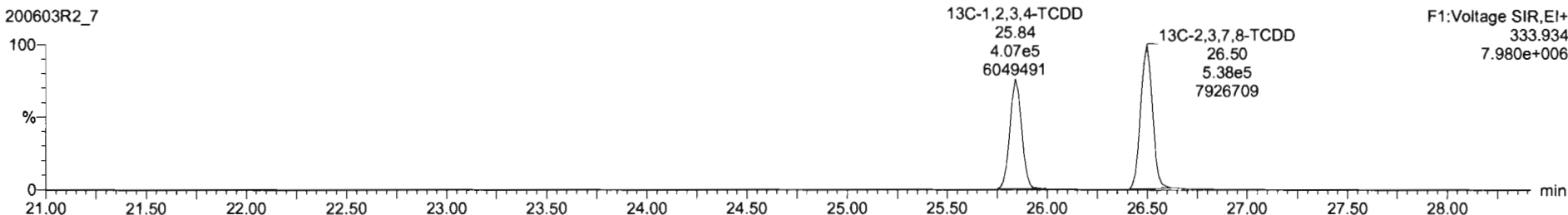
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200603R2_7



F1:Voltage SIR,EI+
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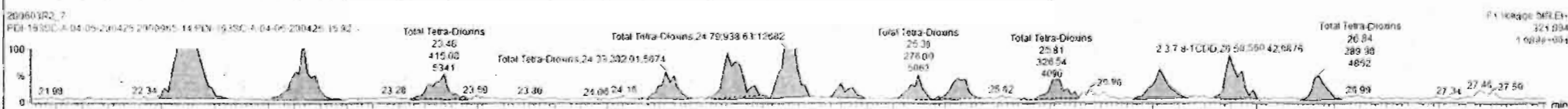
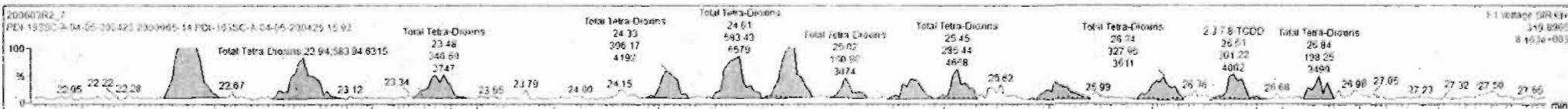
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F1:Voltage SIR,EI+
333.934
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SI	Name	Resp	RA	RY	RFP	wVol	RT	RRT	Conc	SPAC	DL	EMPC
39	Total Tetra-Dioxins				0.0363	10.024			2.67		0.0085	2.36
40	Total Penta-Dioxins				0.0081	10.024			1.96		0.0066	5.12

SI	Name	RT	mI Resp	uG Resp	RA	RY	EMPC	Conc
1	Total Tetra-Dioxins	22.52	1.113e2	1.561e3	0.37	NO	0.65071	0.75071
2	Total Tetra-Dioxins	22.94	5.018e2	7.730e2	0.75	NO	0.31798	0.31798
3	Total Tetra-Dioxins	23.46	3.407e2	4.151e2	0.04	NO	0.17657	0.17657
4	Total Tetra-Dioxins	24.23	3.062e2	3.825e2	0.60	NO	0.16114	0.16114
5	Total Tetra-Dioxins	24.61	5.831e2	7.590e2	0.73	NO	0.32270	0.32270
6	Total Tetra-Dioxins	24.82	8.565e2	9.386e2	0.70	NO	0.37351	0.37351
7	Total Tetra-Dioxins	25.02	1.809e2	1.856e2	0.67	NO	0.08171	0.081171
8	Total Tetra-Dioxins	25.27	2.502e2	2.760e2	0.91	YES	0.11439	0.00000
9	Total Tetra-Dioxins	25.45	7.864e2	3.407e2	0.84	NO	0.14643	0.14643
10	Total Tetra-Dioxins	25.85	2.827e2	3.265e2	0.87	NO	0.14265	0.14265
11	Total Tetra-Dioxins	26.24	3.260e2	4.475e2	0.75	NO	0.16158	0.16158
12	2,3,7,8-TCDD	26.51	3.012e2	5.604e2	0.51	YES	0.06213	0.00000
13	Total Tetra-Dioxins	26.84	1.973e2	2.900e2	0.68	NO	0.11432	0.11432



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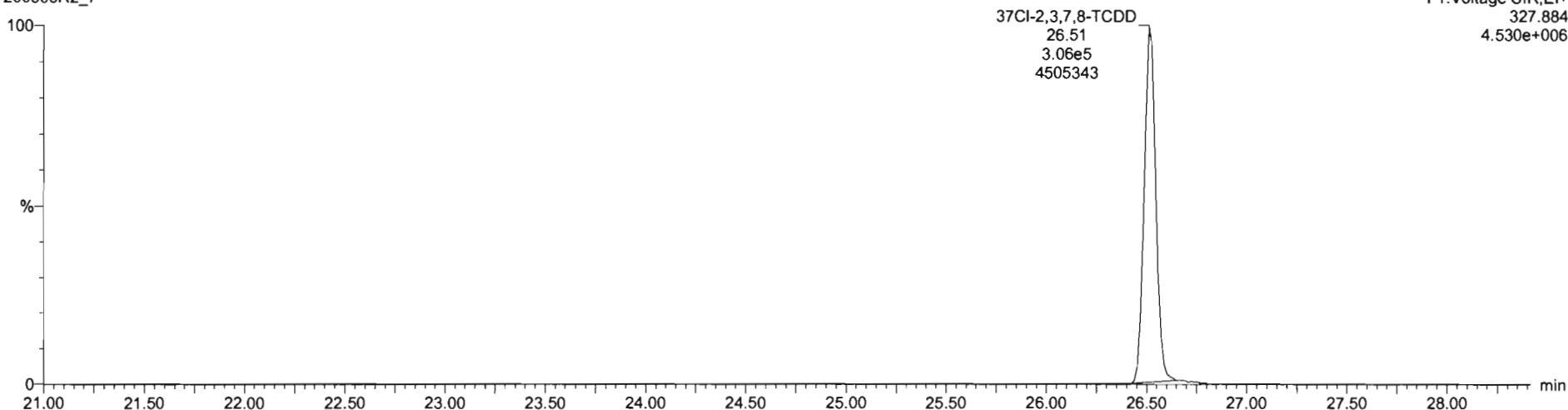
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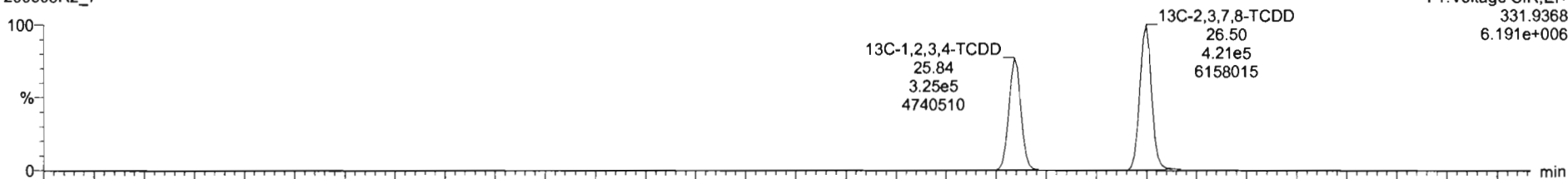
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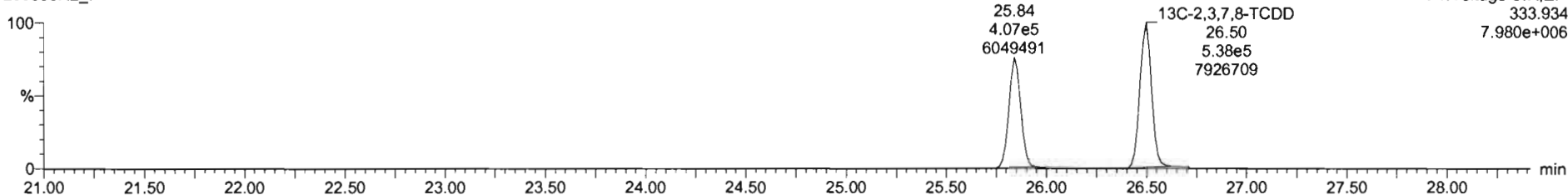


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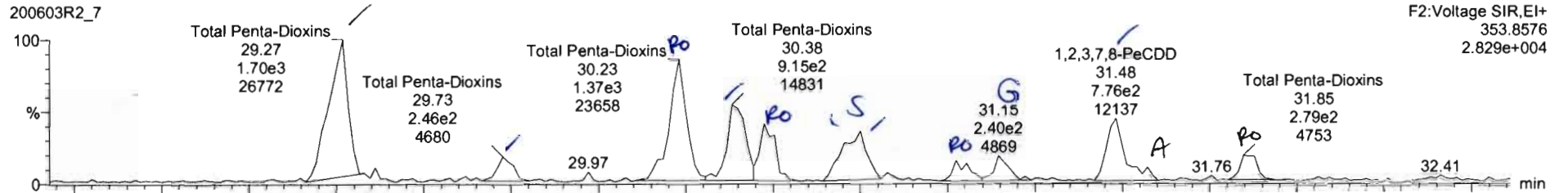
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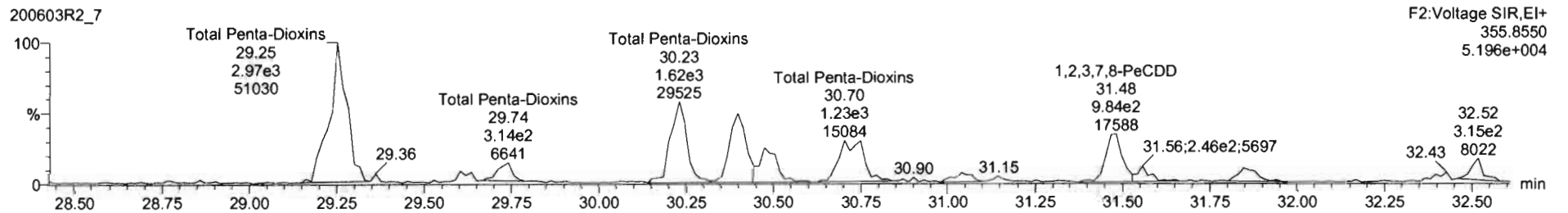
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1,2,3,7,8-PeCDD

200603R2_7

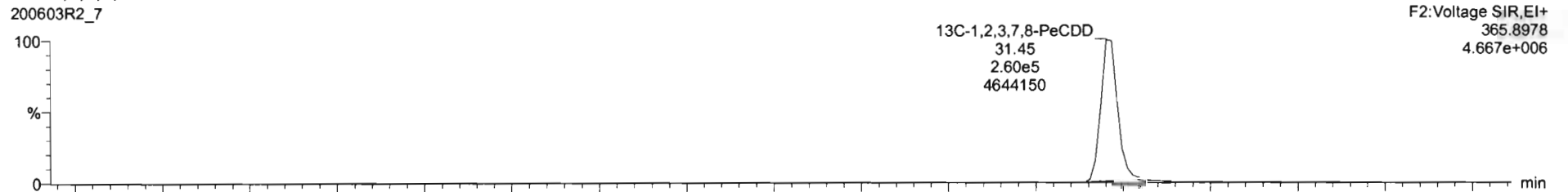


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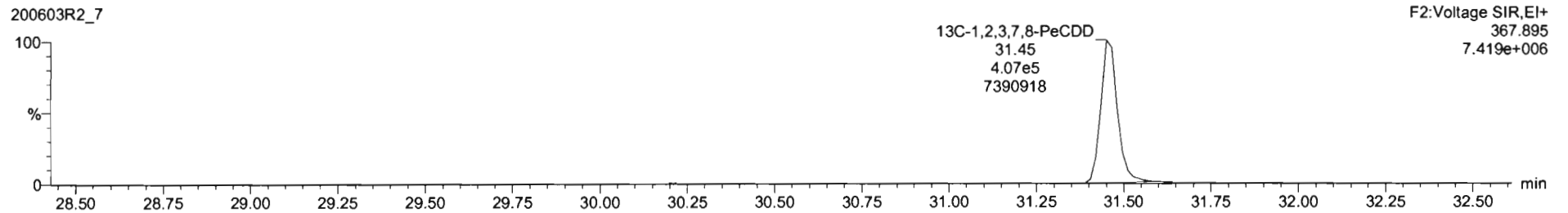


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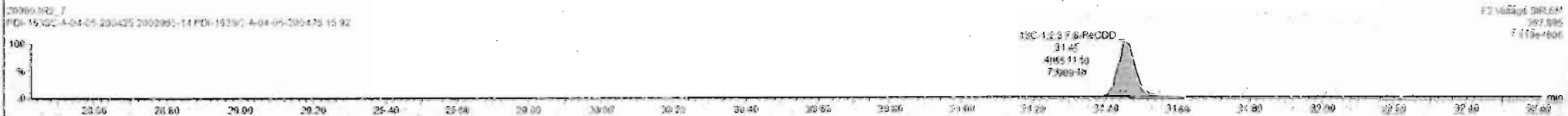
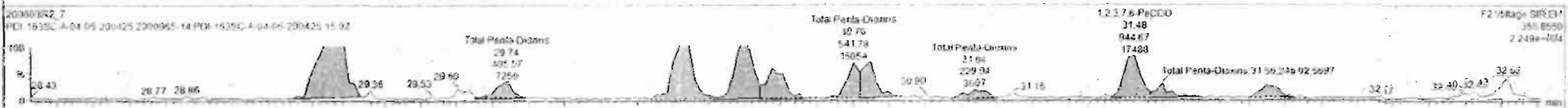
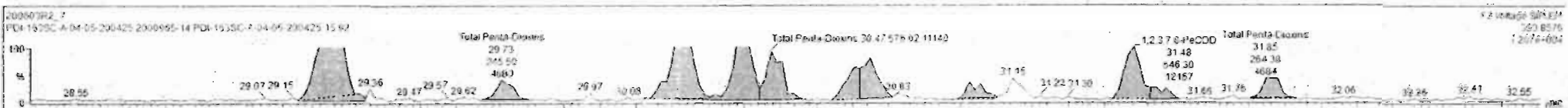


200603R2_7



SI	Name	Resp	RA	inj	RRF	Method	RT	RRT	Conc	%Rec	DA	Y19
39	Total Penta-Chloro				0.6883	10.024			2.67		0.9651	2.88
40	Total Penta-Chloro				0.6881	10.024			1.22		0.7540	5.47

SI	Name	RT	ml Resp	20 Resp	RA	inj	EMPC	Conc
1	Total Penta-Chloro	29.27	1.862e2	2.965e1	0.63	NO	1.5923	1.5923
2	Total Penta-Chloro	29.73	2.459e2	4.059e2	0.61	NO	0.21473	0.21473
3	Total Penta-Chloro	30.23	1.100e3	1.405e1	0.83	YES	0.87683	0.00000
4	Total Penta-Chloro	30.30	9.169e2	1.305e1	0.66	NO	0.75877	0.75877
5	Total Penta-Chloro	30.47	5.760e2	7.445e2	0.77	YES	0.40026	0.00000
6	Total Penta-Chloro	30.70	3.111e2	5.410e2	0.67	NO	0.28128	0.00000
7	Total Penta-Chloro	30.75	4.729e2	6.907e2	0.72	NO	0.37367	0.00000
8	Total Penta-Chloro	31.02	1.300e2	2.290e2	0.83	YES	6.12313	0.00000
9	1,2,3,7,8-PeCDD	31.48	8.403e2	9.447e2	0.68	HQ	0.62477	0.52472
10	Total Penta-Chloro	31.53	1.354e2	2.450e2	0.65	NO	0.12579	0.12579
11	Total Penta-Chloro	31.85	2.844e2	3.022e2	0.67	YES	0.10246	0.00000



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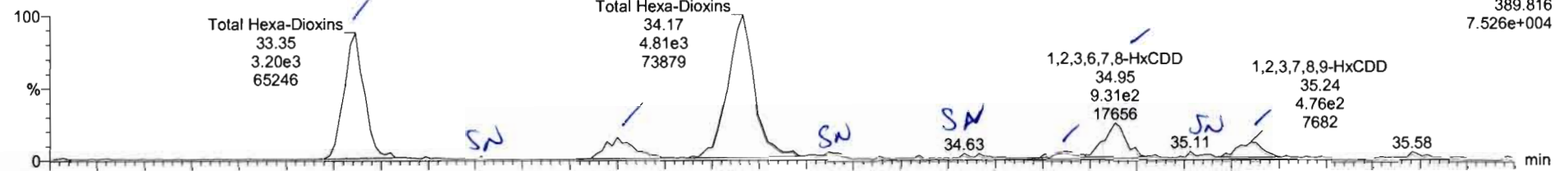
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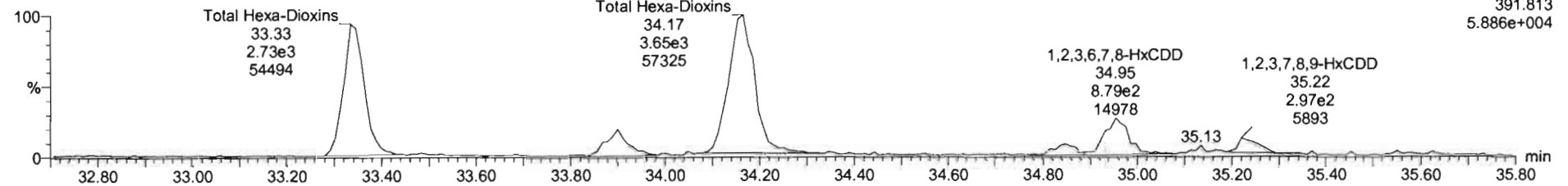
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1,2,3,4,7,8-HxCDD

200603R2_7

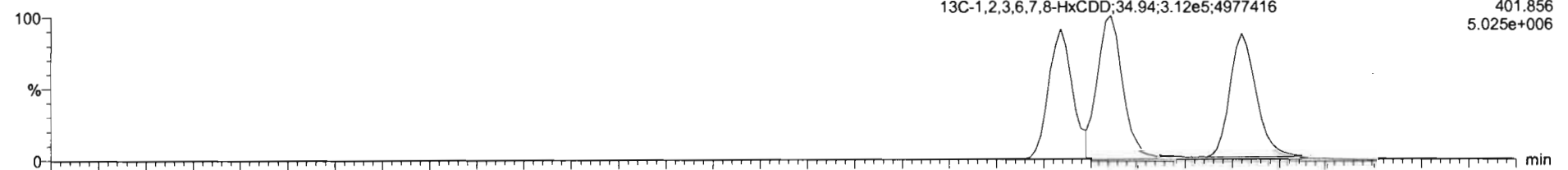


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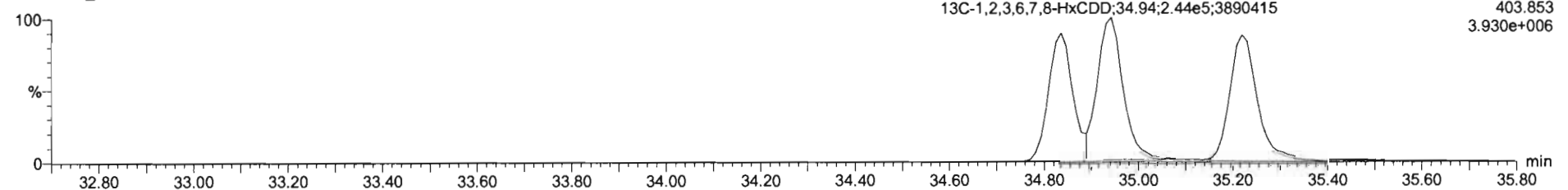


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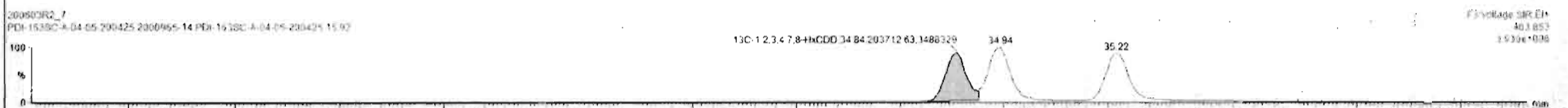
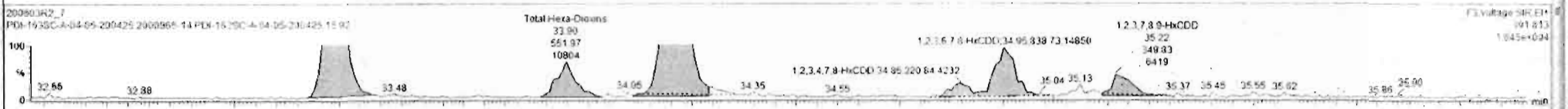
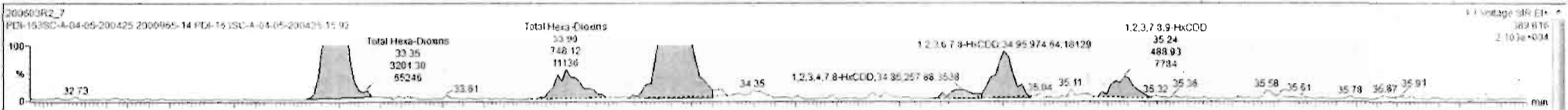


200603R2_7



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Comp	%Rec	DL	EMPC
A1 Total Hexa-Chlorins				0.6523	10.024			6.24		0.157	8.24
A2 Total Hepta-Chlorins				0.9839	10.024			14.3		0.185	14.3

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Comp
1 Total Hexa-Chlorins	33.35	3.201e3	2.724e3	1.17	NO	2.6179	2.6179
2 Total Hexa-Chlorins	33.90	7.491e2	5.520e2	1.36	NO	0.57347	0.57347
3 Total Hexa-Chlorins	34.17	4.815e3	3.666e3	1.31	NO	3.7411	3.7411
4 1,2,3,4,7,8-HxCDD	34.85	2.575e2	2.206e2	1.17	NO	0.19627	0.19627
5 1,2,3,6,7,8-HxCDD	34.91	6.748e2	6.387e2	1.15	NO	0.72977	0.72977
6 1,2,3,7,8,9-HxCDD	35.24	4.889e2	3.498e2	1.40	NO	0.37638	0.37638



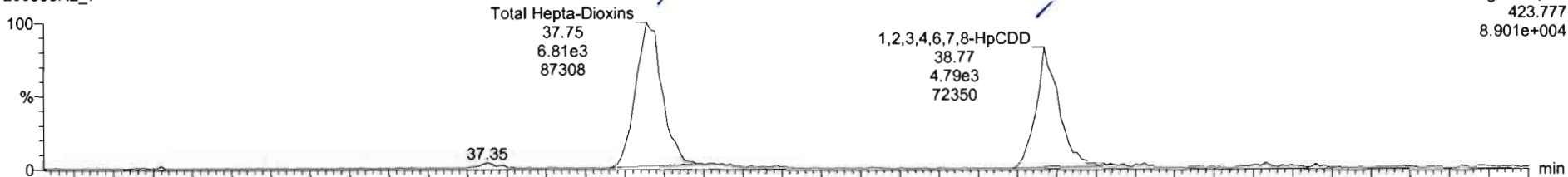
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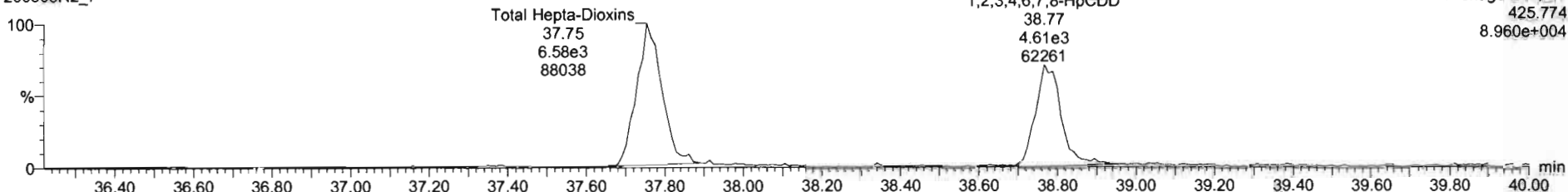
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1,2,3,4,6,7,8-HpCDD

200603R2_7

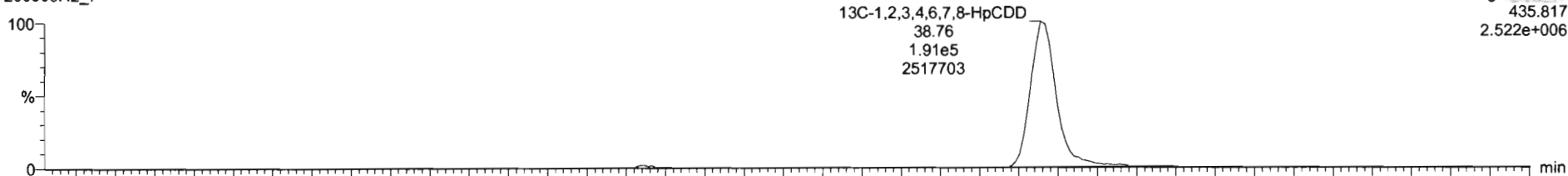


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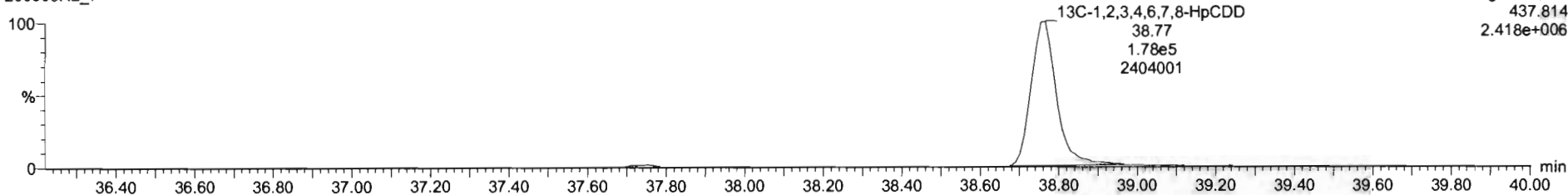


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200603R2_7



200603R2_7



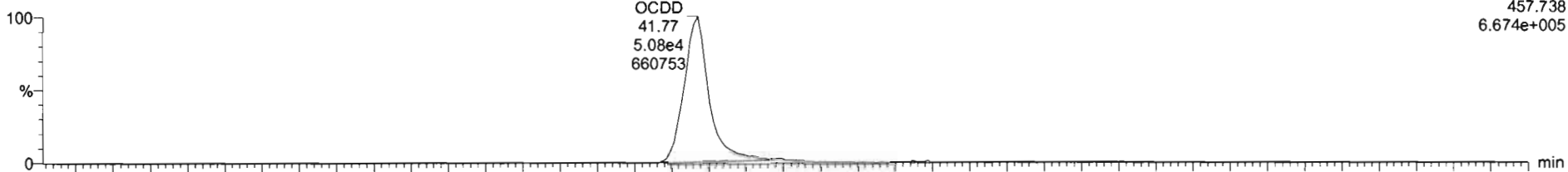
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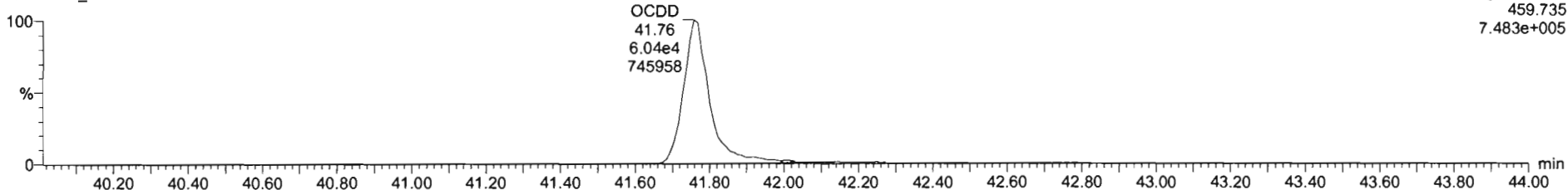
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200603R2_7

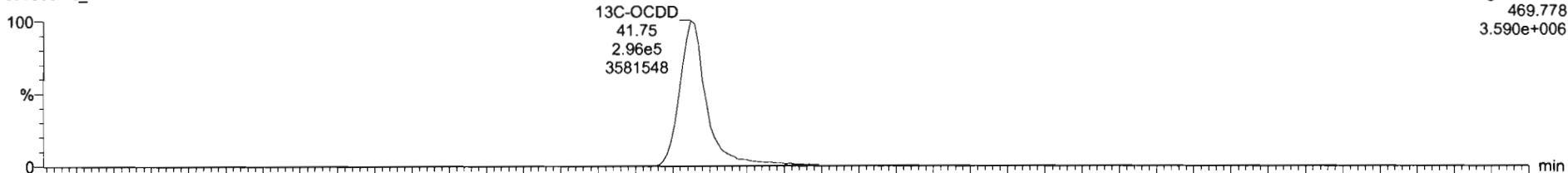


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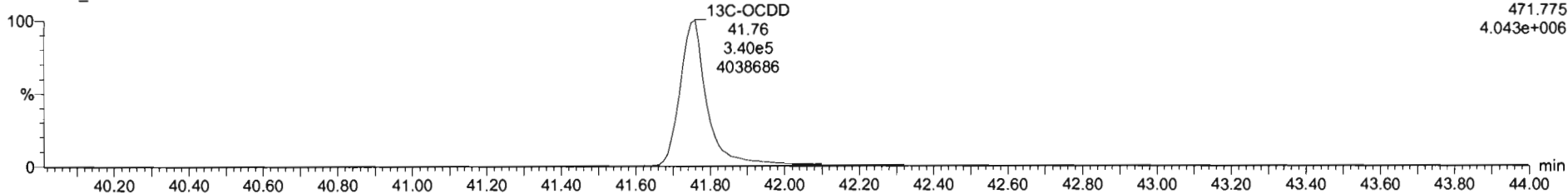


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200603R2_7



200603R2_7



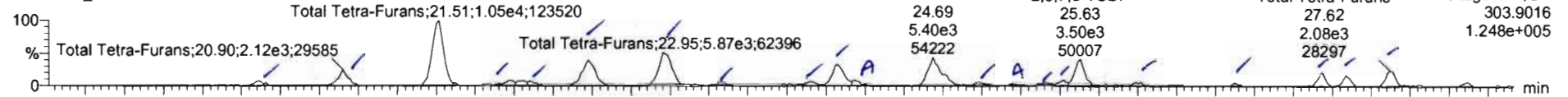
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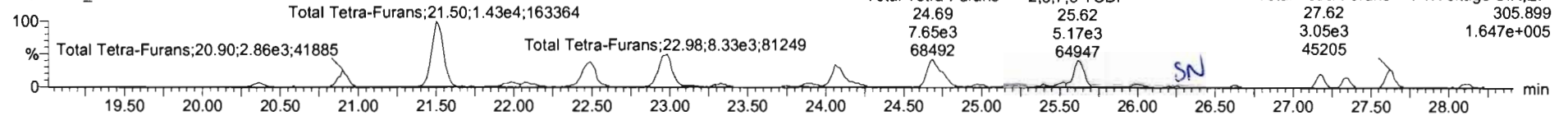
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2,3,7,8-TCDF

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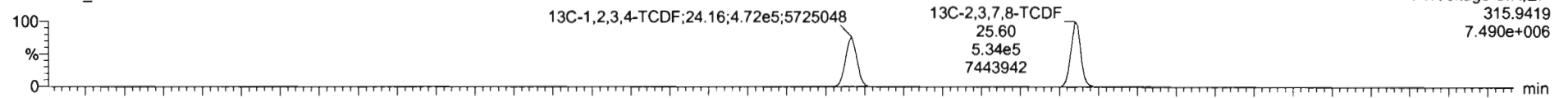


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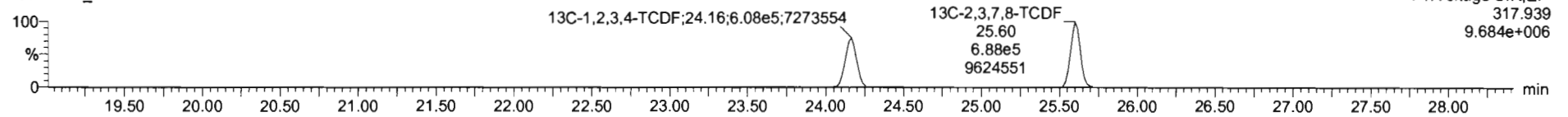


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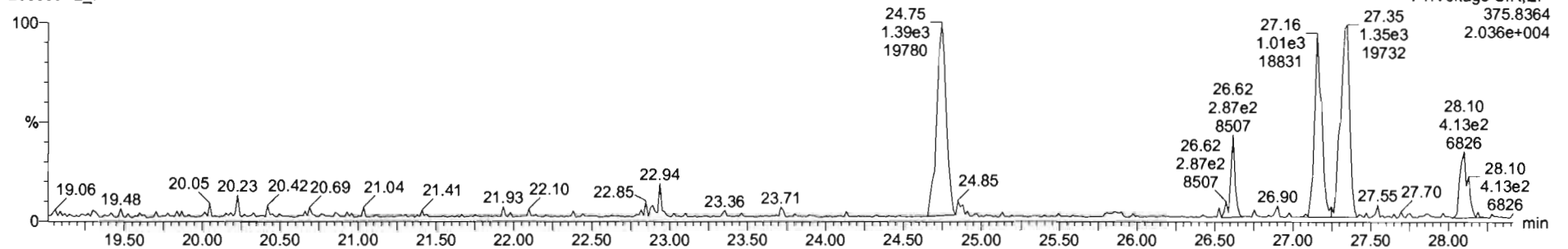


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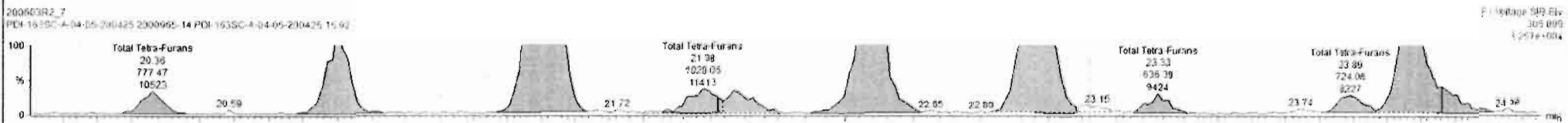
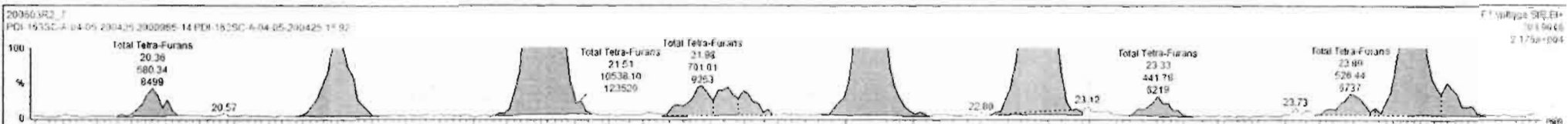
DPE1

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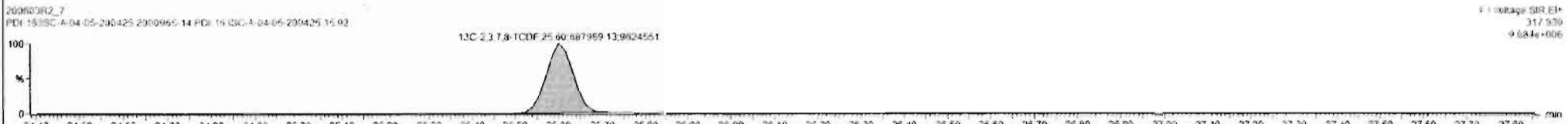
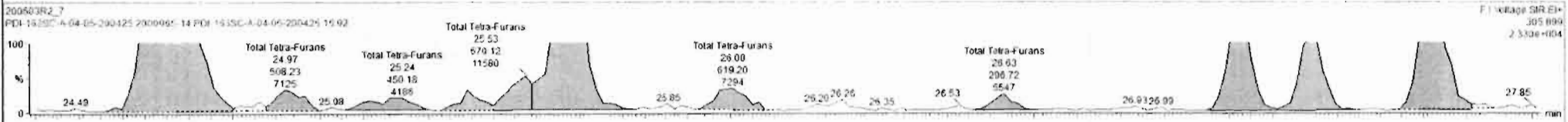
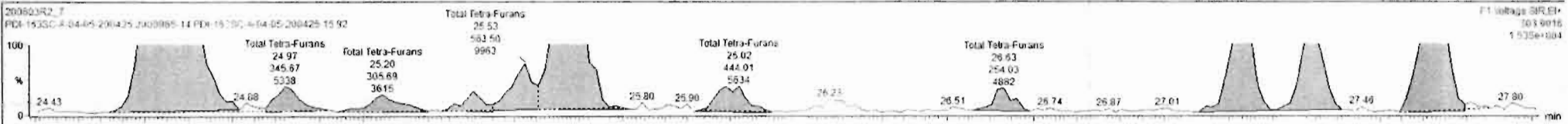
Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxin				0.8523	10.624			5.24		0.157	8.24
42 Total Hepta-Dioxin				0.9635	10.624			14.3		0.185	14.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.36	5.802e2	7.775e2	0.75	ND	0.25513	0.29519
2 Total Tetra-Furans	20.95	2.122e3	2.858e3	0.74	ND	1.0928	1.0928
3 Total Tetra-Furans	21.51	1.054e4	1.431e4	0.74	ND	5.4021	5.4021
4 Total Tetra-Furans	21.98	7.010e2	1.020e3	0.69	ND	0.37416	0.37416
5 Total Tetra-Furans	22.05	0.380e2	1.085e3	0.67	ND	0.43597	0.00000
6 Total Tetra-Furans	22.47	4.847e3	6.400e3	0.73	ND	2.4017	2.4017
7 Total Tetra-Furans	22.95	0.128e3	0.156e3	0.75	ND	3.1054	3.1054
8 Total Tetra-Furans	23.33	4.416e2	6.364e2	0.69	ND	0.23440	0.23440
9 Total Tetra-Furans	23.89	5.264e2	7.241e2	0.72	ND	0.27106	0.27106
10 Total Tetra-Furans	24.07	3.528e3	4.611e3	0.72	ND	1.8128	1.8128
11 Total Tetra-Furans	24.16	5.756e2	7.413e2	0.76	ND	0.28631	0.28631



Name	Resp	RA	nfy	RRF	ajvid	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxina				0.8523	10.024			0.24	0.157	0.24	
42 Total Hepta-Dioxina				0.8839	10.024			1.43	0.185	1.43	

Name	RT	m1 Resp	m2 Resp	RA	nfy	EMPC	Conc
12 Total Tetra-Furans	24.69	5.296e3	7.698e3	0.70	NO	2.3058	2.8058
13 Total Tetra-Furans	24.97	3.472e2	5.082e2	0.68	NO	0.16564	0.18564
14 Total Tetra-Furans	25.20	3.957e2	4.592e2	0.68	NO	0.16433	0.16433
15 Total Tetra-Furans	25.41	2.375e2	3.823e2	0.68	NO	0.13048	0.13048
16 Total Tetra-Furans	25.53	5.835e2	6.701e2	0.64	NO	0.28819	0.28819
17 2,3,7,8-TCDF	25.60	3.556e3	5.171e3	0.69	NO	1.6972	1.8972
18 Total Tetra-Furans	26.02	4.440e2	6.192e2	0.72	NO	0.23115	0.23115
19 Total Tetra-Furans	26.63	2.540e2	2.967e2	0.66	NO	0.11973	0.11973
20 Total Tetra-Furans	27.19	1.412e3	2.049e3	0.69	NO	0.75234	0.75234
21 Total Tetra-Furans	27.34	1.142e3	1.621e3	0.70	NO	0.60061	0.60061
22 Total Tetra-Furans	27.62	2.062e3	3.042e3	0.66	NO	1.1143	1.1143



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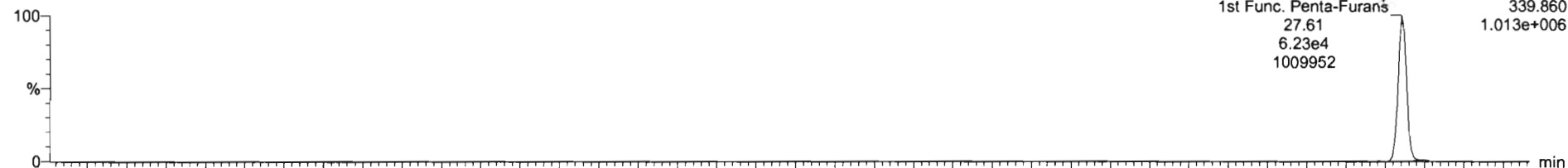
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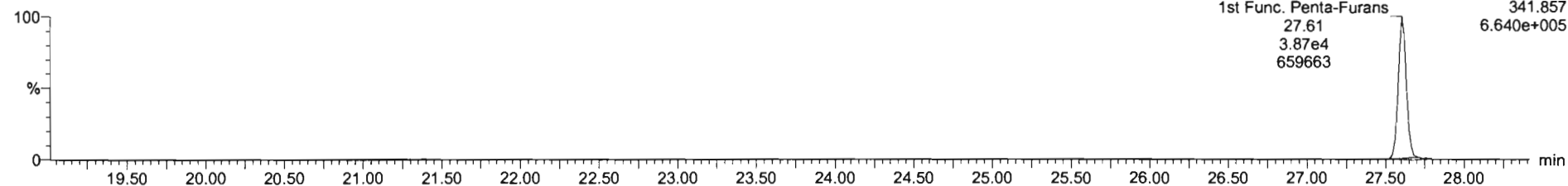
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1st Func. Penta-Furans

200603R2_7

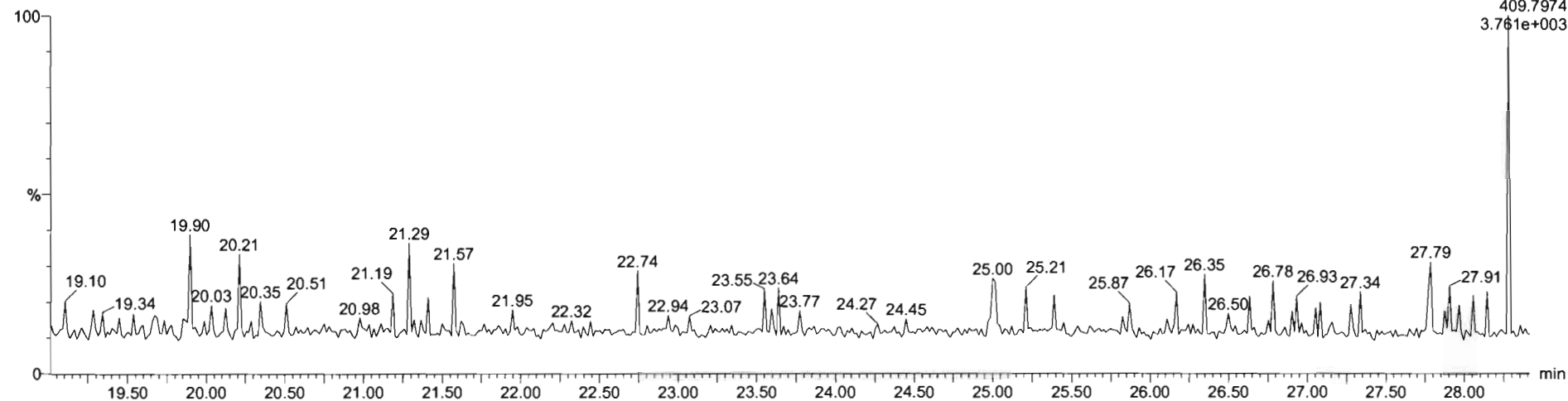


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DPE6

200603R2_7



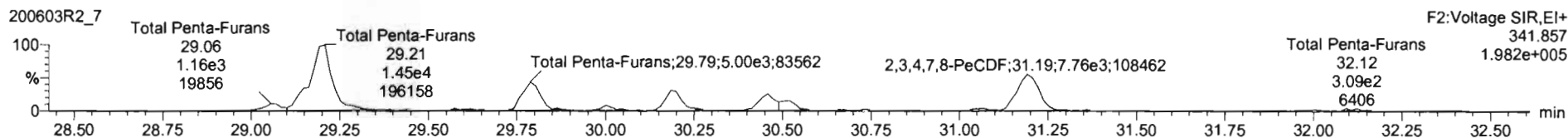
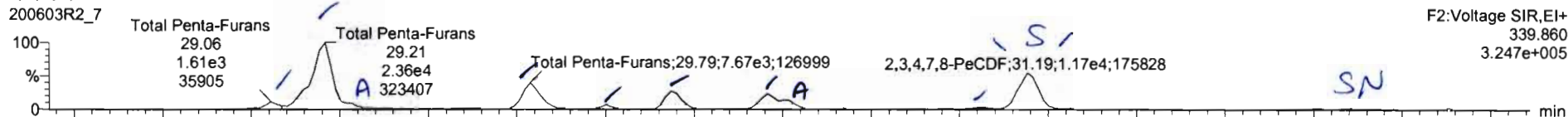
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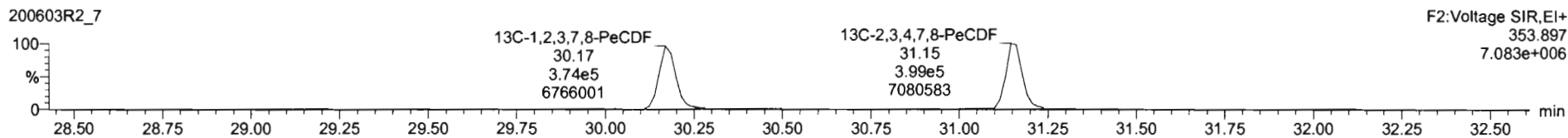
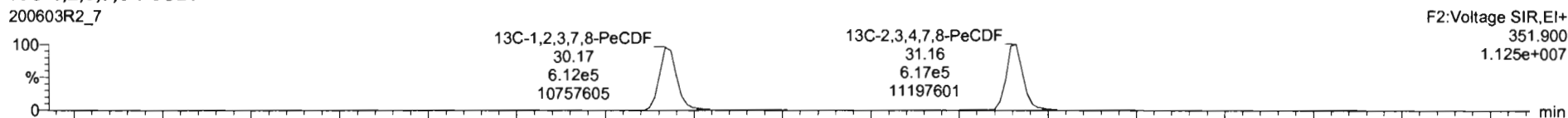
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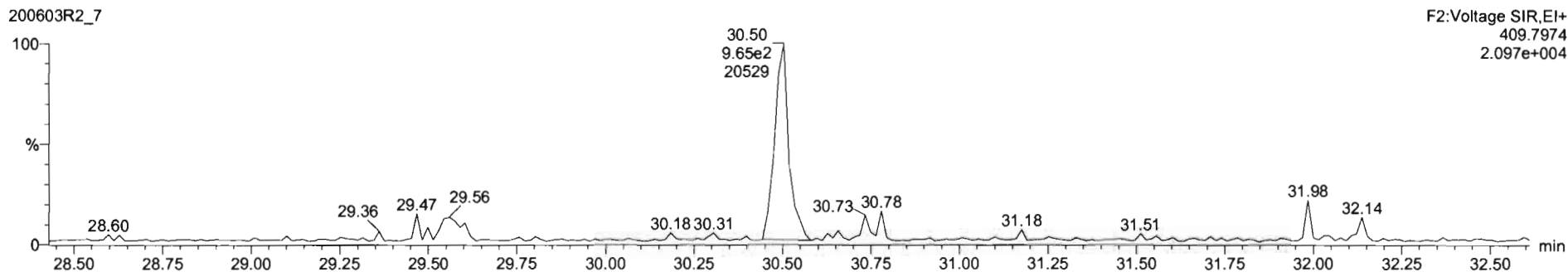
1,2,3,7,8-PeCDF



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

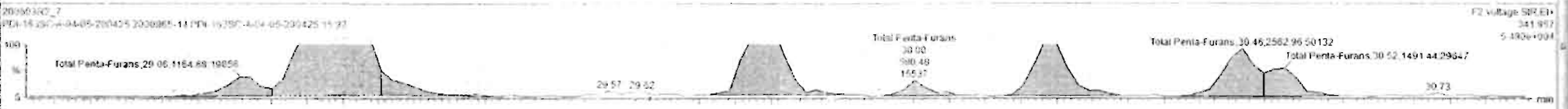
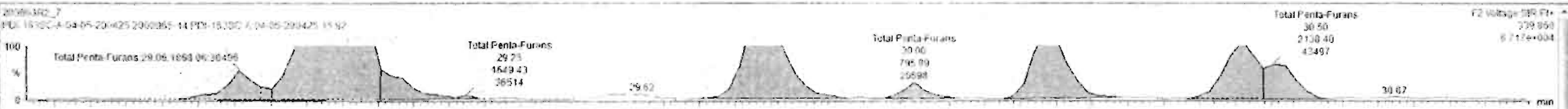


DPE2



Name	Resp	RA	cy	RPF	total	MF	RPI	Comp	Rate	DL	Est
1st Func: Penta-Furans				0.0525	10.024			22.5	0.022	22.1	
Total Penta-Furans				3.9025	33.024			17.5	0.141	22.7	

Name	RD	mt Resp	nt Resp	RA	cy	EJPC	Comp
1 Total Penta-Furans	29.06	1.568e2	1.105e1	1.89	NO	0.07754	4.07734
2 Total Penta-Furans	29.21	1.175e4	1.362e4	1.80	NO	7.895	6.90400
3 Total Penta-Furans	29.25	1.548e3	9.735e2	1.80	NO	8.5568	6.89200
4 Total Penta-Furans	29.70	7.870e2	1.999e1	1.43	NO	2.5738	2.4292
5 Total Penta-Furans	30.00	7.965e2	5.965e2	1.20	NO	0.30668	0.30666
6 1,2,3,7,8-PeCDF	30.15	4.707e3	3.243e1	1.47	NO	1.8468	1.6168
7 Total Penta-Furans	30.46	3.718e3	2.883e1	1.45	NO	1.4024	1.4024
8 Total Penta-Furans	30.50	2.498e3	1.481e1	1.43	NO	0.01070	0.00000
9 Total Penta-Furans	31.00	5.881e2	3.122e2	1.83	NO	0.16344	0.18344
10 2,3,4,7,8-PeCDF	31.10	1.173e4	7.762e1	1.01	NO	4.0638	4.0638
11 Total Penta-Furans	32.15	2.722e2	3.087e2	0.73	YES	4.02536	0.00000



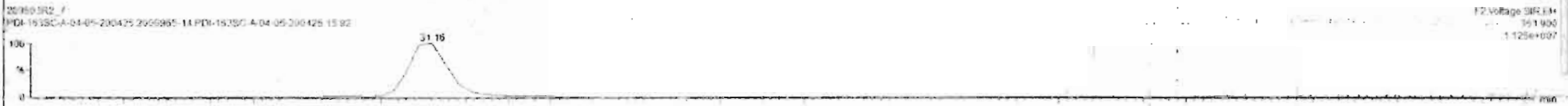
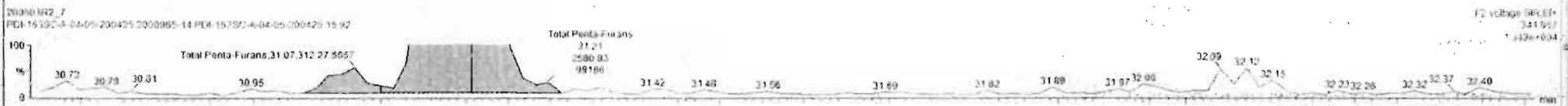
ID	Name	Temp	RA	UV	Diff	WVDF	RT	RPY	conc.	Spec. I	OL	CRPC
44	Total Penta-Furans				0.85e3	10.024			22.5		0.032	22.1
45	Total Penta-Furans				0.875	10.025			11.4		6.141	30.7

ID	Name	RT	WVDF	WVDF	RA	UV	EMPC	Conc.
1	Total Penta-Furans	29.06	1.869e3	1.165e3	1.00	NO	0.67724	0.27731
2	Total Penta-Furans	29.21	2.173e4	1.262e4	1.00	NO	7.54957	0.50000
3	Total Penta-Furans	29.25	1.845e3	9.775e2	1.65	NO	0.55625	0.00000
4	Total Penta-Furans	29.78	7.670e3	4.099e3	1.00	NO	1.3296	2.6258
5	Total Penta-Furans	30.00	7.560e3	2.095e2	1.00	NO	0.30566	0.30566
6	1,2,3,7,8-PeCDF	30.11	4.269e3	2.243e3	1.40	NO	1.6165	1.0168
7	Total Penta-Furans	30.20	3.210e3	2.263e3	1.40	NO	1.4624	1.4624
8	Total Penta-Furans	30.50	2.138e3	1.491e3	1.40	NO	0.81070	0.00000
9	Total Penta-Furans	31.00	2.059e2	2.123e2	1.40	NO	0.16744	0.16344
10	2,3,4,7,8-PeCDF	31.19	7.820e3	5.155e3	1.50	NO	2.7287	2.7287
11	Total Penta-Furans	31.21	3.079e3	2.501e3	1.00	NO	1.4436	1.4426



ID	Name	Resp	RA	RI	RRF	RI/RI	CI	RII	Conc	RI/Sec	DL	EMPC
44	1st Funt. Penta-Furans				0.8925	19.004			22.5	0.0320	20.5	
45	Total Penta-Furans				0.8925	19.004			11.4		5.141	20.5

ID	Name	RI	RI Resp	RI Reso	RA	RI	RI/PC	Conc
1	Total Penta-Furans	29.66	1.866e7	1.185e3	1.60	ND	0.67724	0.67734
2	Total Penta-Furans	29.21	2.175e4	1.362e4	1.60	ND	7.6992	0.00000
3	Total Penta-Furans	29.25	1.646e3	9.730e2	1.65	ND	0.58680	0.00000
4	Total Penta-Furans	29.79	7.070e0	4.896e3	1.13	ND	2.8298	2.8298
5	Total Penta-Furans	30.00	7.360e2	5.061e2	1.25	ND	0.30608	0.30608
6	1,2,3,7,8-PeCDF	30.18	4.767e3	3.243e1	1.47	ND	1.6198	1.6188
7	Total Penta-Furans	30.40	5.715e3	2.583e3	1.48	ND	1.4074	1.4024
8	Total Penta-Furans	30.50	2.128e2	1.491e1	1.43	ND	0.81078	0.00000
9	Total Penta-Furans	31.05	5.001e2	3.127e2	1.63	ND	0.18344	0.18344
10	2,3,4,7,8-PeCDF	31.19	7.835e3	5.156e1	1.92	ND	2.7287	2.7287
11	Total penta-Furans	31.21	1.879e3	2.581e3	1.50	ND	1.4428	1.4428

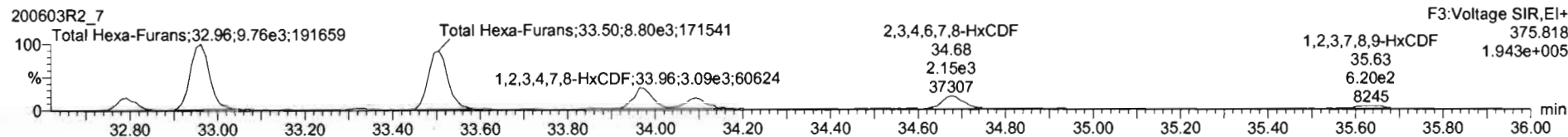
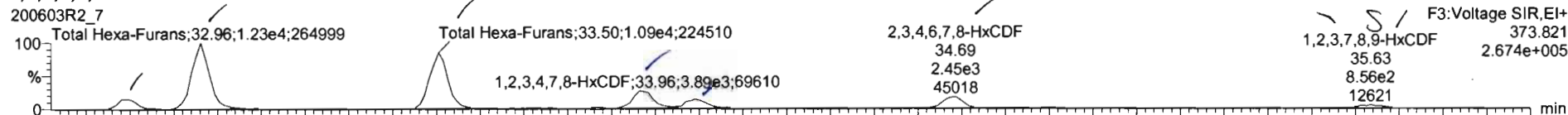


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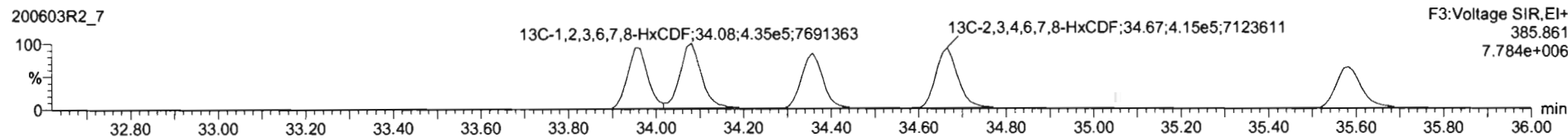
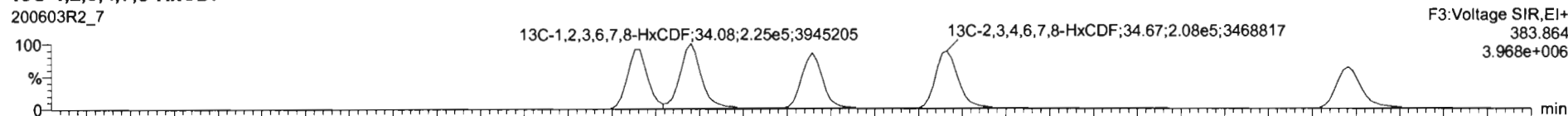
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Name: 200603R2_7, Date: 04-Jun-2020, Time: 00:30:08, ID: 2000965-14 PDI-163SC-A-04-05-200425 15.92, Description: PDI-163SC-A-04-05-200425

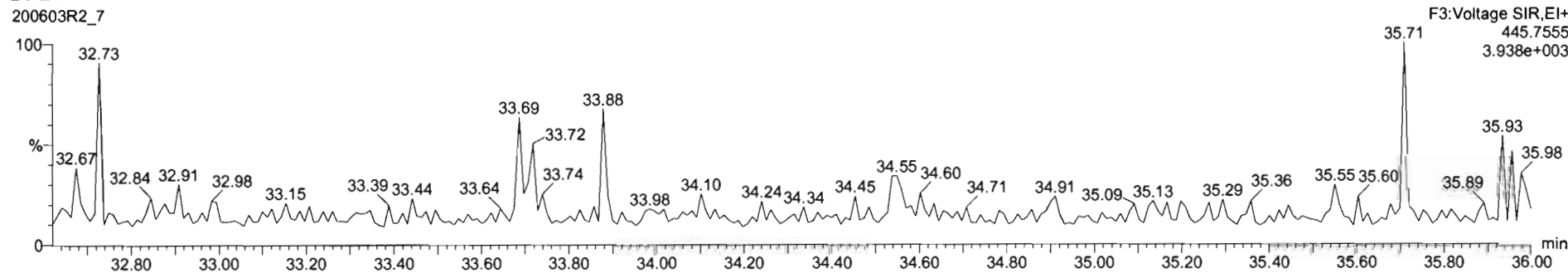
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13C-1,2,3,4,7,8-HxCDF

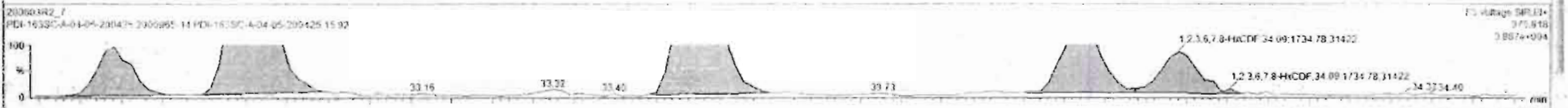
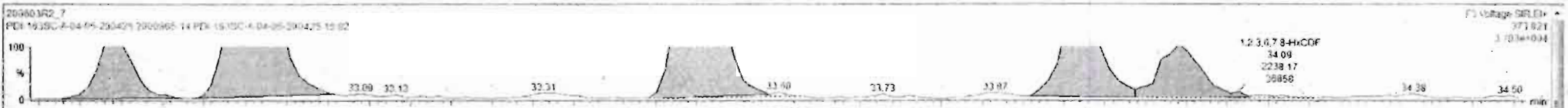


DPE3



#	Name	Resp	BA	dy	RF	RFint	RT	RTT	Comp	WRec	DL	Unit
44	Total Penta-Furans				0.052	10.024			32.5		0.0332	10.7
45	Total Penta-Furans				0.0225	10.024			11.4		0.141	10.7

#	Name	RT	nt Resp	wd Resp	BA	dy	EMPC	Comp
1	Total Hexa-Furans	32.70	2.050e3	1.764e3	1.16	NO	1.2347	1.3047
2	Total Hexa-Furans	32.96	1.229e4	6.706e3	1.26	NO	7.9775	7.9775
3	Total Hexa-Furans	33.60	1.079e4	6.800e3	1.23	NO	7.0958	7.0958
4	1,2,3,4,7,8-HxCDF	33.96	3.891e3	3.089e3	1.26	NO	2.7163	2.7163
5	1,2,3,6,7,8-HxCDF	34.03	2.276e2	1.715e3	1.26	NO	1.2615	1.3615
6	2,3,4,6,7,8-HxCDF	34.69	2.455e3	2.107e3	1.11	NO	1.0747	1.0747
7	1,2,3,7,8,9-HxCDF	35.63	6.581e2	6.199e2	1.06	NO	6.07824	6.07824



ID	Name	Temp	SA	SH	Alt	Wind	ST	ST	Stat	Stat	DL	MM
44	Total Delta Furans				0.0000	10.000			0.000	0.0000		
45	Total Hexa Furans				0.0000	10.000			0.000	0.0000		

ID	Name	DT	Net Resp	Net Resp	RL	SH	SLPC	CCDD
1	Total Hexa Furans	32.75	2.950e2	1.700e3	1.16	NO	1.2967	1.39.17
2	Total Hexa Furans	32.90	1.270e4	9.700e3	1.20	NO	7.9270	7.9770
3	Total Hexa Furans	33.50	1.070e4	8.000e3	1.20	NO	7.0000	7.0000
4	1,2,3,7,8-MeCDF	33.50	3.800e3	3.000e3	1.00	NO	2.7100	2.7100
5	1,2,3,6,7,8-MeCDF	34.00	2.200e3	1.720e3	1.00	NO	1.5000	1.5000
6	2,3,6,7,8-MeCDF	34.00	2.000e3	1.400e3	1.00	NO	1.0000	1.0000
7	1,2,3,7,8-MeCDF	35.00	3.500e3	4.500e3	1.00	NO	6.0000	6.0000
8	Total Hexa Furans	35.00	2.000e2	1.000e3	1.00	NO	0.0000	0.0000



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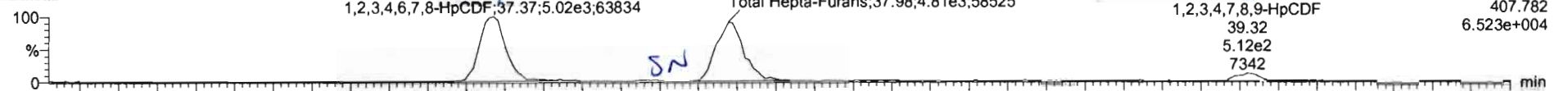
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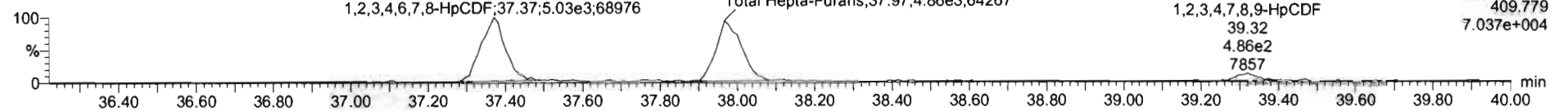
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1,2,3,4,6,7,8-HpCDF

200603R2_7

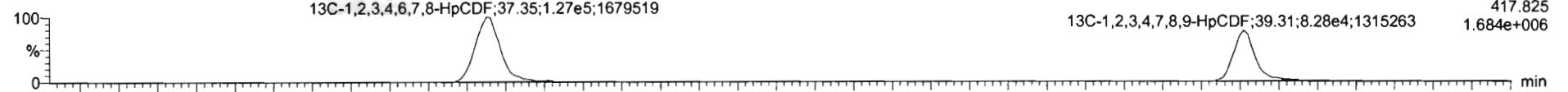


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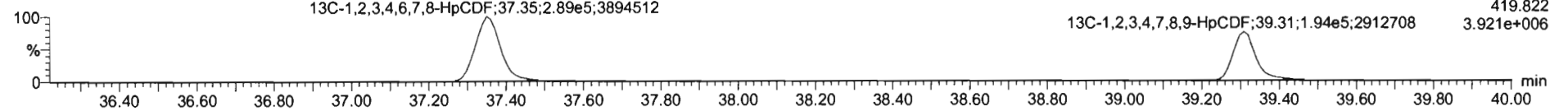


13C-1,2,3,4,6,7,8-HpCDF

200603R2_7

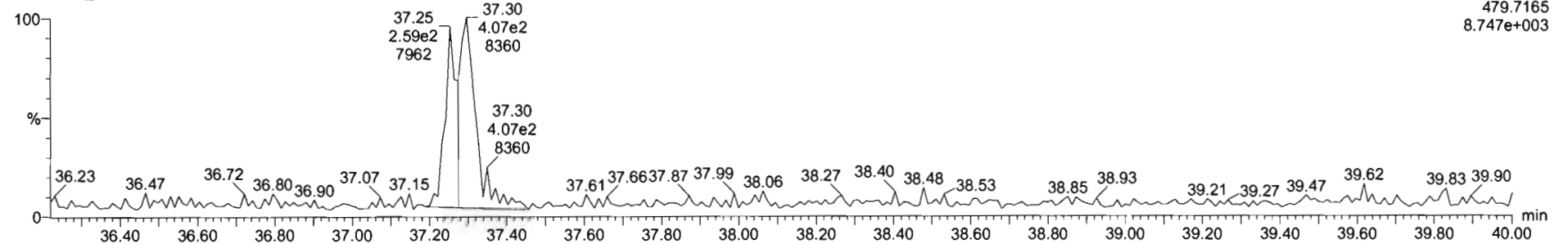


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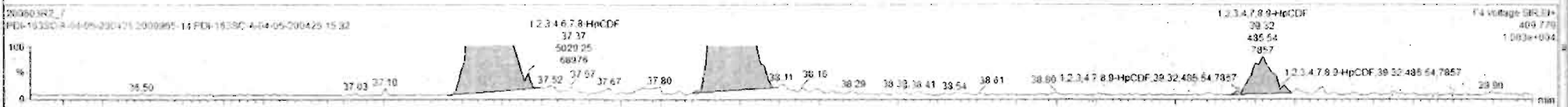
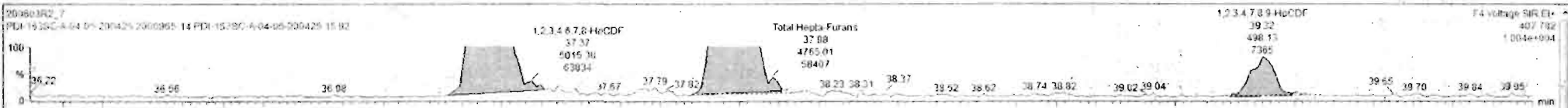
DPE4

200603R2_7



SI	Name	Resp	RA	RV	SR	uVol	RT	NRT	Conc	%Rec	Cl	EMPC
47	Total Hepta-Furans				0.8734	10.074			12.5		0.140	12.3
48												

SI	Name	RT	m1 Reso	m2 Reso	RA	RV	EMPC	Conc
1	1,2,3,4,6,7,8-HxCDF	37.37	5.015e3	5.029e3	1.00	NO	5.5e70	5.5e70
2	Total Hepta-Furans	37.88	4.765e3	4.800e3	0.98	NO	6.5e12	6.5e12
3	1,2,3,4,7,8,9-HpCDF	39.32	4.981e2	4.856e2	1.02	NO	0.699e7	0.699e7



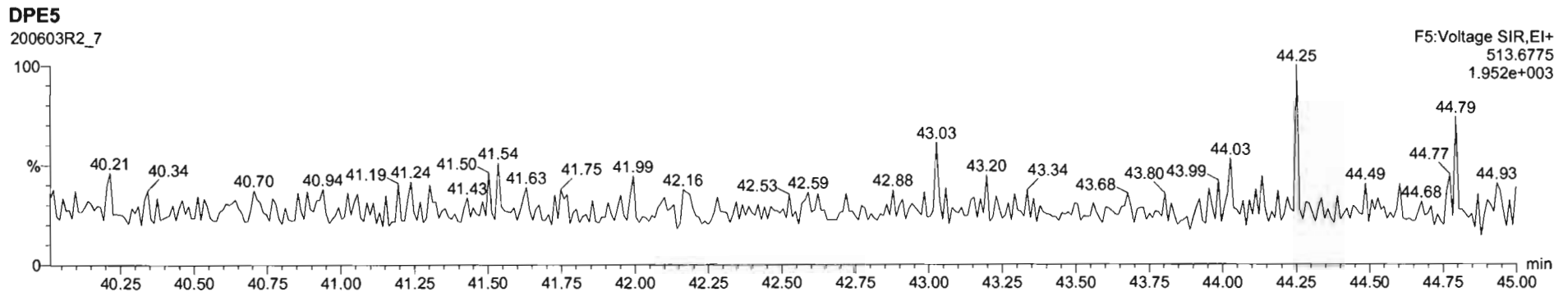
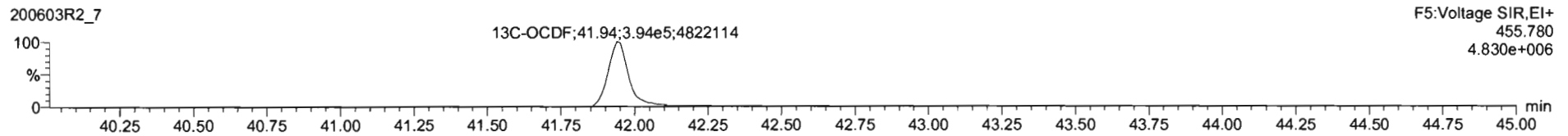
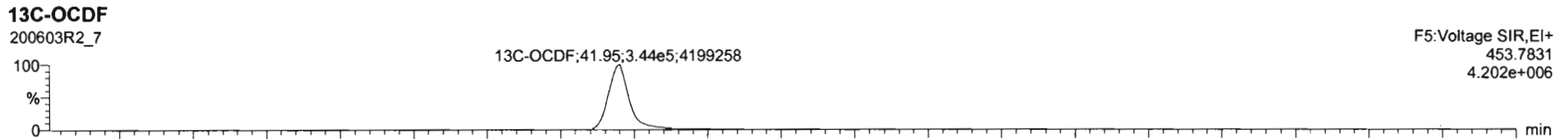
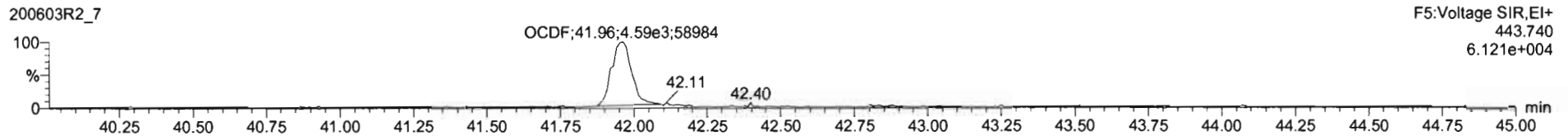
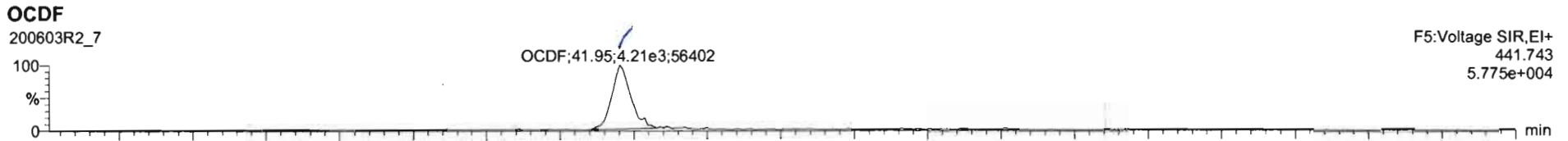
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Name: 200603R2_7, Date: 04-Jun-2020, Time: 00:30:08, ID: 2000965-14 PDI-163SC-A-04-05-200425 15.92, Description: PDI-163SC-A-04-05-200425



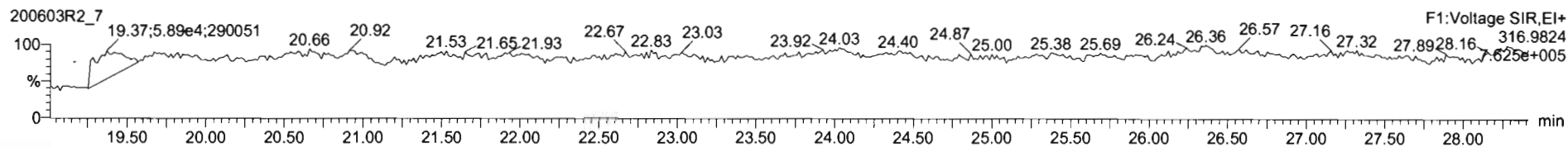
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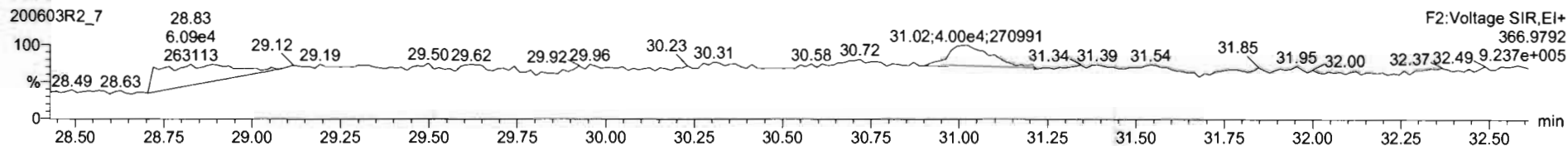
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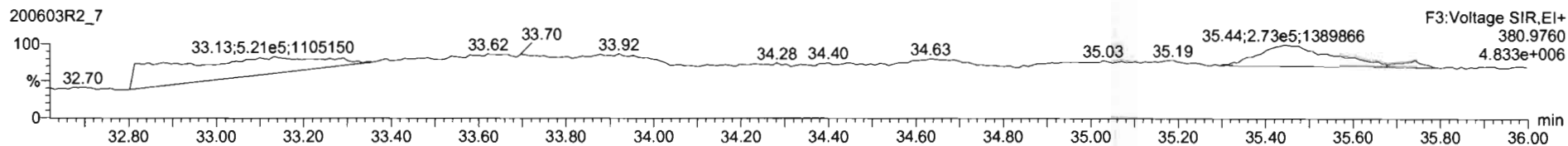
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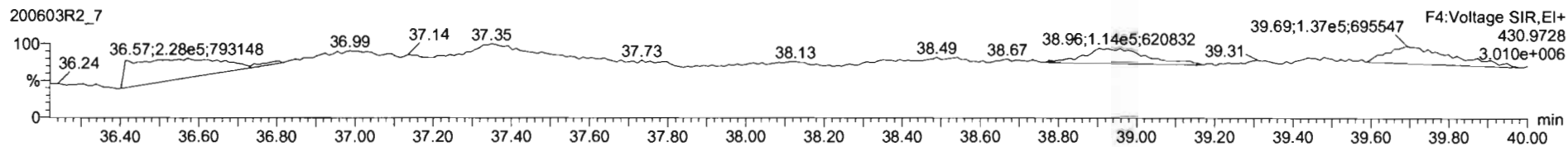
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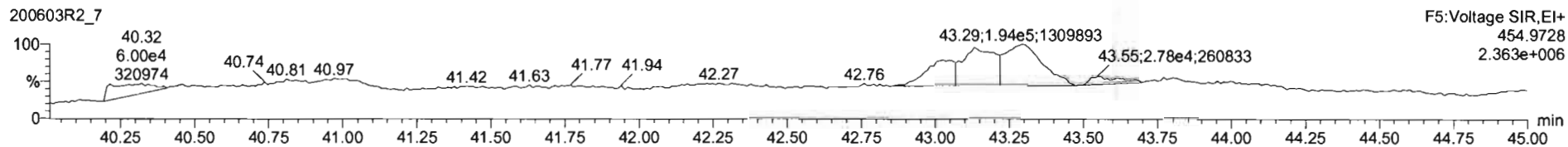
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200603R2\200603R2-8.qld

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Printed: Thursday, June 04, 2020 09:38:01 Pacific Daylight Time

GeB 06/04/2020

Cr 06/05/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_8, Date: 04-Jun-2020, Time: 01:16:23, ID: 2000965-15 PDI-163SC-A-05-06-200425 17.23, Description: PDI-163SC-A-05-06-200425

#	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	0.888	10.270	26.531		1.001				0.0557	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.270	31.488		1.001				0.0884	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.270	34.846		1.000				0.0878	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.270	34.943		1.000				0.0938	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.270	35.231		1.000				0.109	
6	6 1,2,3,4,6,7,8-HpCDD	1.12e3	1.10	NO	0.864	10.270	38.778	38.78	1.000	1.000	0.73996		0.198	0.740
7	7 OCDD	9.50e3	0.87	NO	0.914	10.270	41.749	41.76	1.000	1.000	6.8344		0.281	6.83
8	8 2,3,7,8-TCDF			NO	0.751	10.270	25.641		1.001				0.0326	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.270	30.205		1.001				0.0499	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.270	31.192		1.001				0.0453	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.270	33.963		1.000				0.0628	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.270	34.101		1.000				0.0609	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.270	34.701		1.001				0.0595	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.270	35.592		1.000				0.0957	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.270	37.397		1.001				0.0553	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.270	39.310		1.000				0.0619	
17	17 OCDF			NO	0.806	10.270	41.951		1.000				0.0933	
18	18 13C-2,3,7,8-TCDD	8.78e5	0.78	NO	1.16	10.270	26.538	26.50	1.026	1.025	197.22	101	0.223	
19	19 13C-1,2,3,7,8-PeCDD	6.16e5	0.63	NO	0.849	10.270	31.729	31.47	1.227	1.217	188.48	96.8	0.285	
20	20 13C-1,2,3,4,7,8-HxCDD	4.32e5	1.30	NO	0.779	10.270	34.841	34.84	1.014	1.014	198.67	102	0.511	
21	21 13C-1,2,3,6,7,8-HxCDD	5.30e5	1.29	NO	1.02	10.270	34.955	34.94	1.017	1.017	186.46	95.7	0.392	
22	22 13C-1,2,3,7,8,9-HxCDD	4.78e5	1.30	NO	0.903	10.270	35.226	35.22	1.025	1.025	189.34	97.2	0.441	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.41e5	1.02	NO	0.689	10.270	38.751	38.77	1.128	1.128	177.01	90.9	0.456	
24	24 13C-OCDD	5.93e5	0.89	NO	0.652	10.270	41.775	41.75	1.216	1.215	325.35	83.5	0.519	
25	25 13C-2,3,7,8-TCDF	1.12e6	0.78	NO	1.06	10.270	25.578	25.61	0.989	0.991	186.17	95.6	0.293	
26	26 13C-1,2,3,7,8-PeCDF	9.24e5	1.58	NO	0.838	10.270	30.111	30.18	1.165	1.167	193.85	99.5	0.495	
27	27 13C-2,3,4,7,8-PeCDF	9.12e5	1.59	NO	0.817	10.270	31.065	31.16	1.202	1.205	196.39	101	0.508	
28	28 13C-1,2,3,4,7,8-HxCDF	5.41e5	0.50	NO	1.01	10.270	33.972	33.96	0.989	0.989	192.07	98.6	0.507	
29	29 13C-1,2,3,6,7,8-HxCDF	6.19e5	0.51	NO	1.17	10.270	34.096	34.09	0.992	0.992	189.71	97.4	0.438	
30	30 13C-2,3,4,6,7,8-HxCDF	5.85e5	0.51	NO	1.02	10.270	34.670	34.67	1.009	1.009	204.77	105	0.500	
31	31 13C-1,2,3,7,8,9-HxCDF	4.62e5	0.52	NO	0.860	10.270	35.570	35.59	1.035	1.036	192.37	98.8	0.594	

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-8.qld

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Printed: Thursday, June 04, 2020 09:38:01 Pacific Daylight Time

Name: 200603R2_8, Date: 04-Jun-2020, Time: 01:16:23, ID: 2000965-15 PDI-163SC-A-05-06-200425 17.23, Description: PDI-163SC-A-05-06-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.87e5	0.43	NO	0.774	10.270	37.319	37.36	1.086	1.087	178.78	91.8	0.544	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.61e5	0.44	NO	0.521	10.270	39.349	39.31	1.145	1.144	179.29	92.1	0.808	
34	34 13C-OCDF	6.83e5	0.90	NO	0.746	10.270	41.946	41.95	1.221	1.221	328.01	84.2	0.398	
35	35 37Cl-2,3,7,8-TCDD	3.06e5			1.04	10.270	26.569	26.53	1.028	1.026	76.642	98.4	0.0528	
36	36 13C-1,2,3,4-TCDD	7.49e5	0.80	NO	1.00	10.270	25.890	25.85	1.000	1.000	194.75	100	0.258	
37	37 13C-1,2,3,4-TCDF	1.11e6	0.78	NO	1.00	10.270	24.360	24.18	1.000	1.000	194.75	100	0.310	
38	38 13C-1,2,3,4,6,9-HxCDF	5.44e5	0.51	NO	1.00	10.270	34.420	34.36	1.000	1.000	194.75	100	0.511	
39	39 Total Tetra-Dioxins				0.888	10.270	24.620		0.000		0.49547		0.0557	0.495
40	40 Total Penta-Dioxins				0.908	10.270	29.960		0.000		0.20674		0.0884	0.362
41	41 Total Hexa-Dioxins				0.892	10.270	33.635		0.000		1.0561		0.101	1.06
42	42 Total Hepta-Dioxins				0.864	10.270	37.640		0.000		2.3266		0.198	2.33
43	43 Total Tetra-Furans				0.751	10.270	23.610		0.000		0.00000		0.0147	0.111
44	44 1st Func. Penta-Furans				0.893	10.270	27.580		0.000				0.00854	
45	45 Total Penta-Furans				0.893	10.270	29.275		0.000				0.0182	
46	46 Total Hexa-Furans				0.934	10.270	33.555		0.000				0.0323	
47	47 Total Hepta-Furans				0.873	10.270	37.835		0.000				0.0343	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-8.qld

Last Altered: Thursday, June 04, 2020 09:36:40 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:38:01 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_8, Date: 04-Jun-2020, Time: 01:16:23, ID: 2000965-15 PDI-163SC-A-05-06-200425 17.23, Description: PDI-163SC-A-05-06-200425

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.34	9.570e3	1.486e4	7.854e2	1.198e3	0.66	NO	1.983e3	0.49547	0.49547	0.0557

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.25	2.935e3	2.980e3	1.415e2	1.733e2	0.82	YES	0.000e0	0.00000	0.098370	0.0884
2	Total Penta-Dioxins	29.64	1.455e3	8.161e3	6.259e1	2.709e2	0.23	YES	0.000e0	0.00000	0.056402	0.0884
3	Total Penta-Dioxins	29.74	3.864e3	5.582e3	2.220e2	3.716e2	0.60	NO	5.936e2	0.20674	0.20674	0.0884

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	1.952e4	1.492e4	9.918e2	6.973e2	1.42	NO	1.689e3	0.76815	0.76815	0.101
2	Total Hexa-Dioxins	34.18	6.807e3	5.894e3	3.347e2	2.985e2	1.12	NO	6.331e2	0.28792	0.28792	0.101

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.77	1.625e4	1.369e4	1.218e3	1.181e3	1.03	NO	2.399e3	1.5867	1.5867	0.198
2	1,2,3,4,6,7,8-HpCDD	38.78	9.349e3	8.562e3	5.864e2	5.326e2	1.10	NO	1.119e3	0.73996	0.73996	0.198

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.51	2.916e3	3.210e3	2.243e2	2.548e2	0.88	NO	0.000e0	0.00000	0.11083	0.0147

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\200603R2\200603R2-8.qld

Last Altered: Thursday, June 04, 2020 09:36:40 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:38:01 Pacific Daylight Time

Name: 200603R2_8, Date: 04-Jun-2020, Time: 01:16:23, ID: 2000965-15 PDI-163SC-A-05-06-200425 17.23, Description: PDI-163SC-A-05-06-200425

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

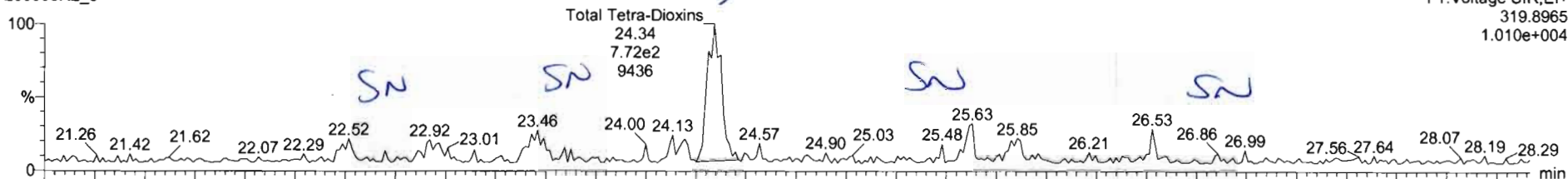
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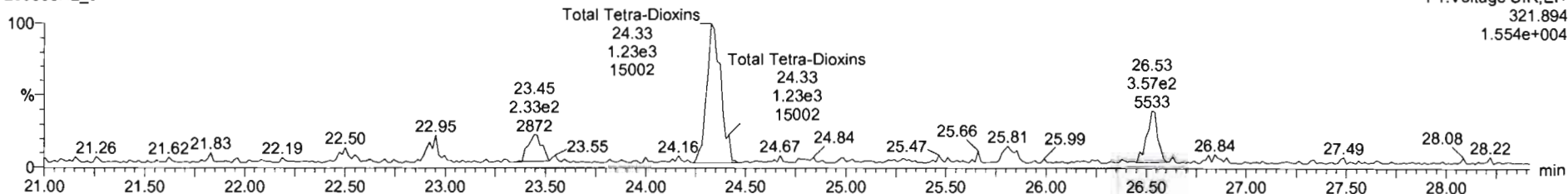
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2,3,7,8-TCDD

200603R2_8

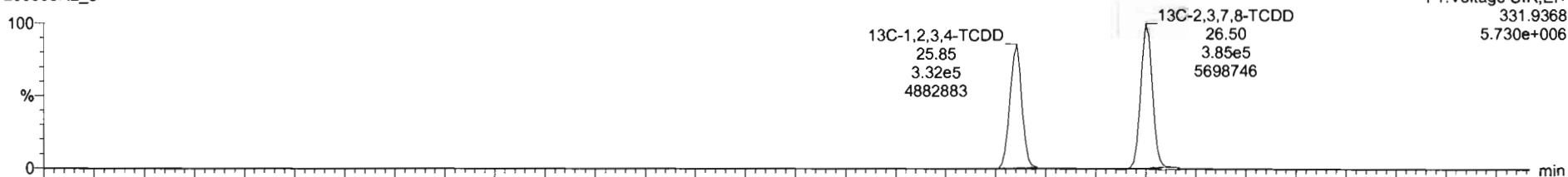


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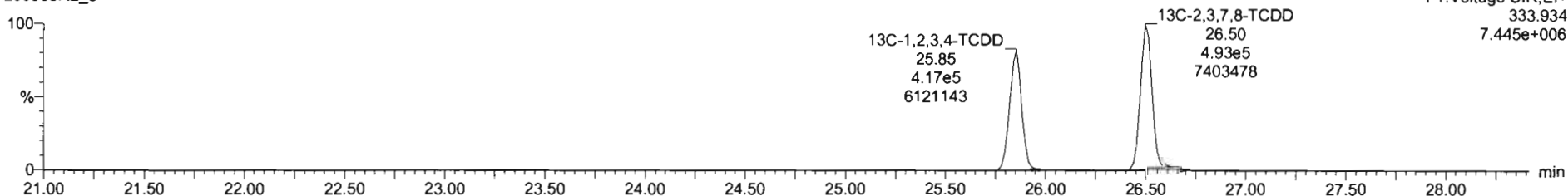


13C-2,3,7,8-TCDD

200603R2_8

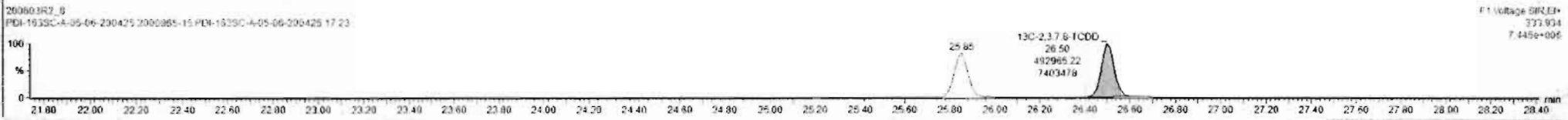
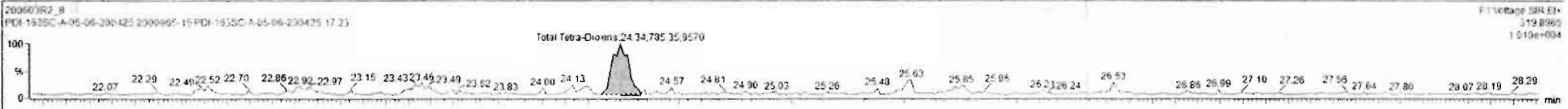


200603R2_8



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.6363	16.276			0.495		0.0557	0.4395
40 Total Penta-Dioxins				0.6081	10.270			0.211		0.0684	0.211

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	24.34	7.854e2	1.198e3	0.66	NO	0.49547	0.49547



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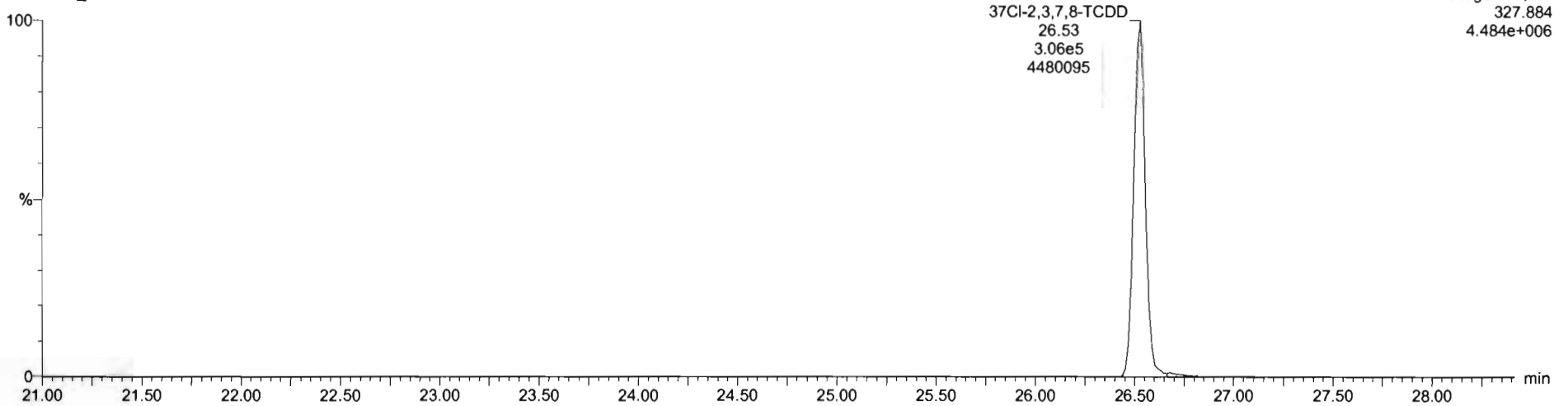
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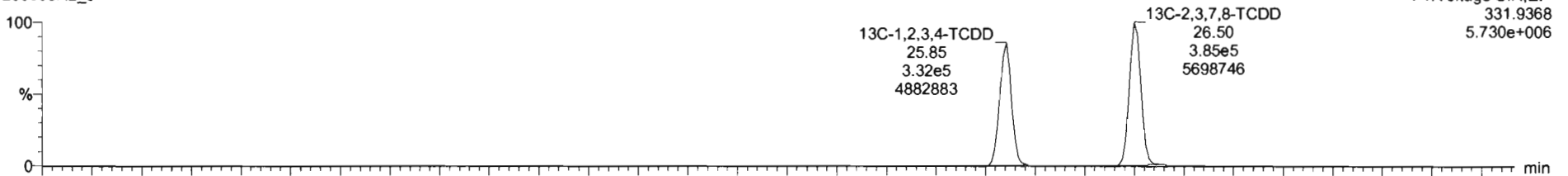
37Cl-2,3,7,8-TCDD

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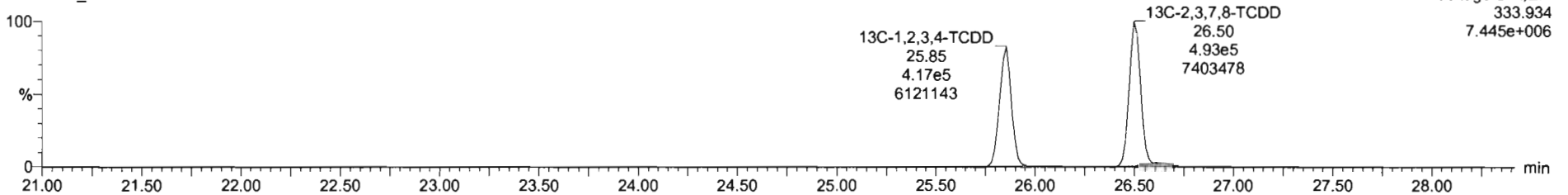


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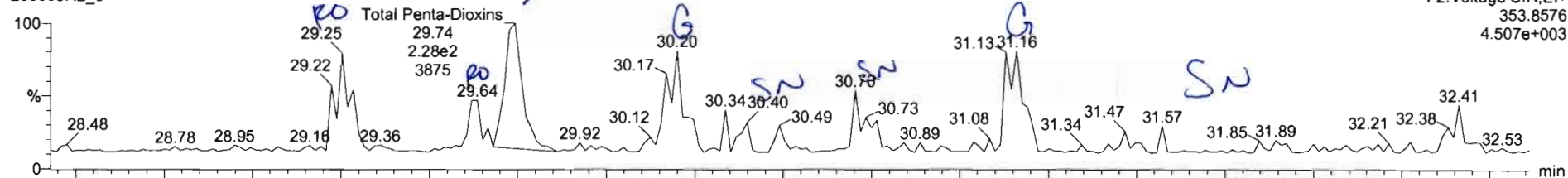
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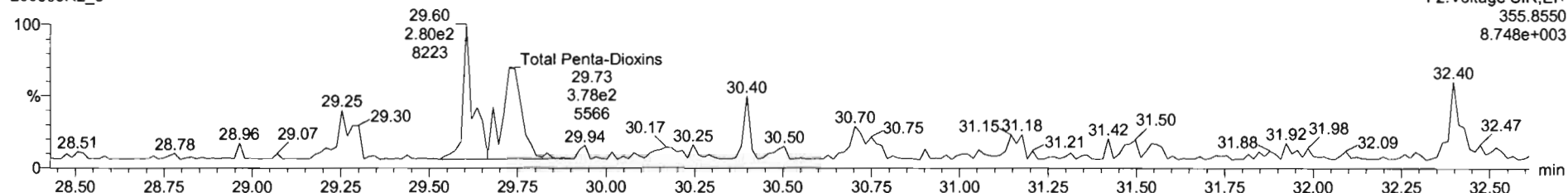
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1,2,3,7,8-PeCDD

200603R2_8

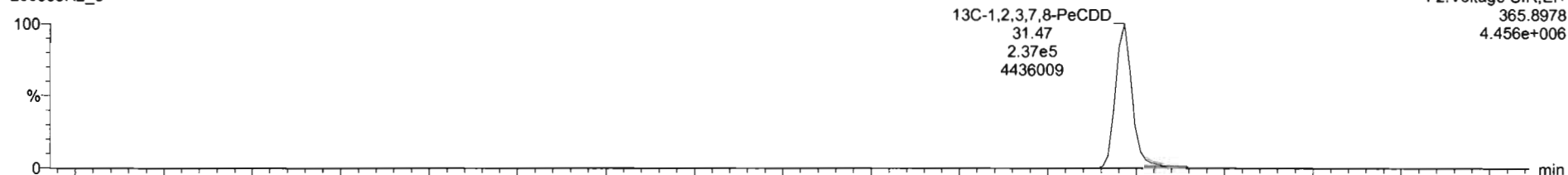


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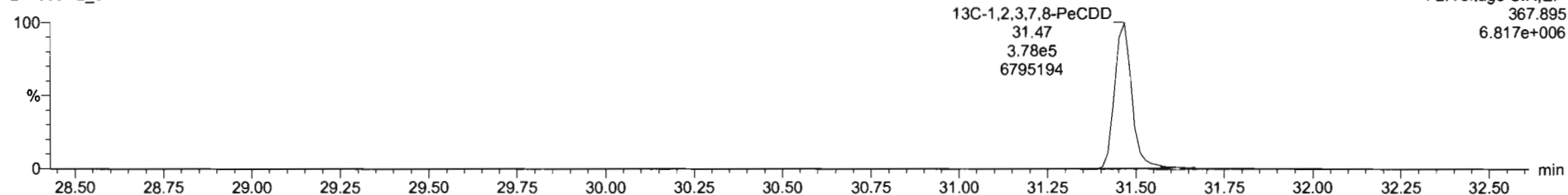


13C-1,2,3,7,8-PeCDD

200603R2_8

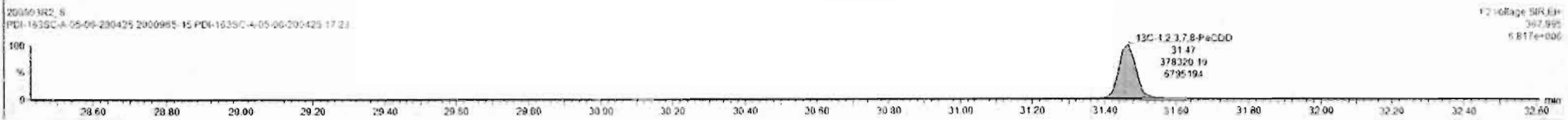
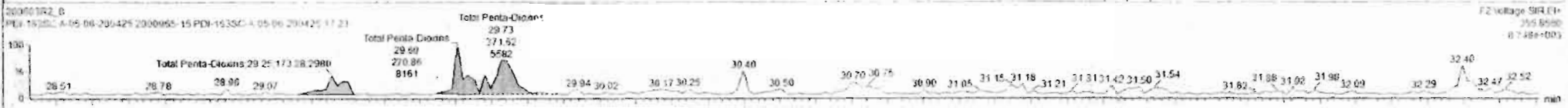
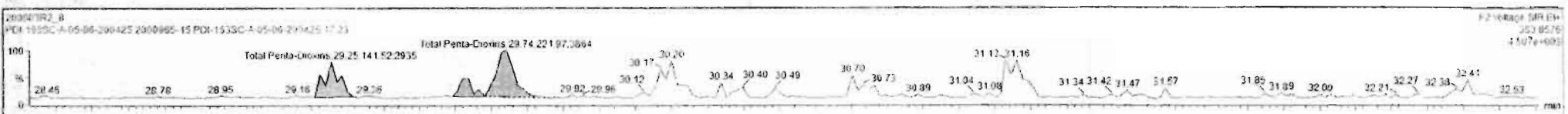


200603R2_8



#	Name	Resp	CA	inj	RRF	injet	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8883	19.279			0.495		0.0557	6.495
40	Total Penta-Dioxins				0.9661	18.275			0.207		0.0854	0.382

#	Name	RT	m1 Resp	m2 Resp	RA	inj	EMPC	Conc.
1	Total Penta-Dioxins	29.25	1.115e2	1.713e2	0.62	YES	0.008178	0.00000
2	Total Penta-Dioxins	29.64	6.259e1	2.709e2	0.23	YES	0.016402	0.00000
3	Total Penta-Dioxins	29.74	2.220e2	3.716e2	0.60	NO	0.28674	0.10674



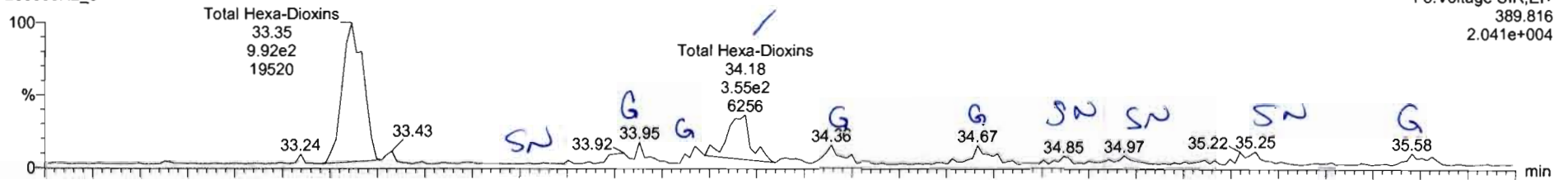
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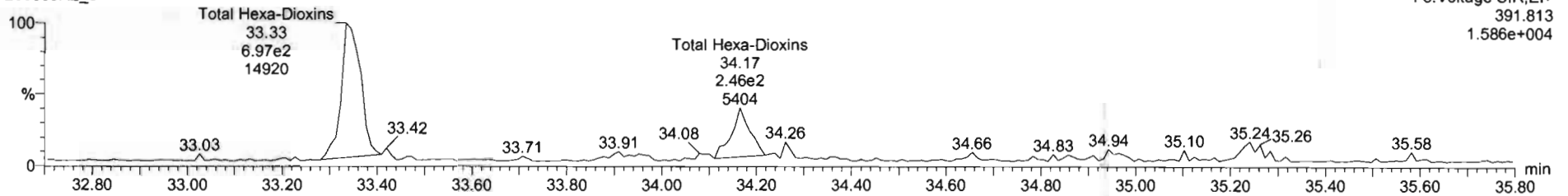
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1,2,3,4,7,8-HxCDD

200603R2_8

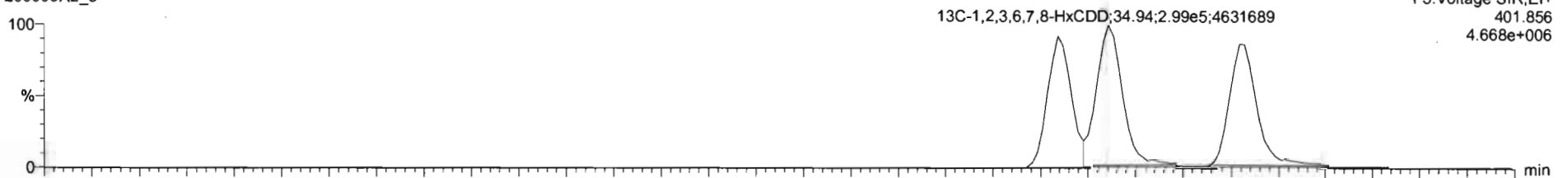


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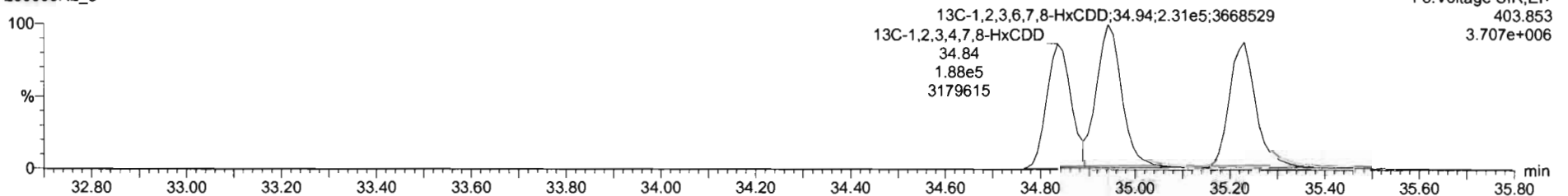


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200603R2_8

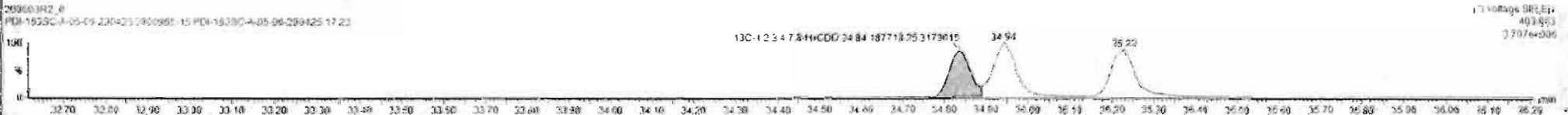
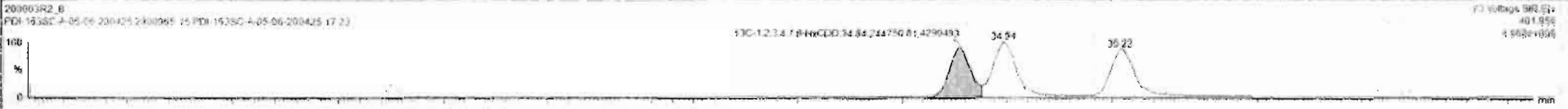
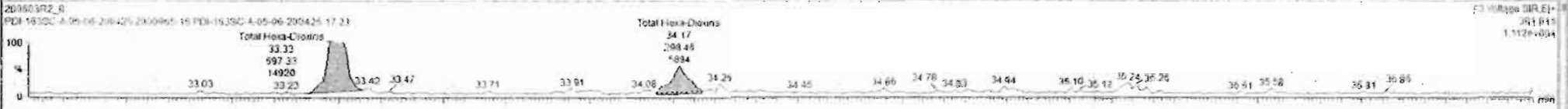
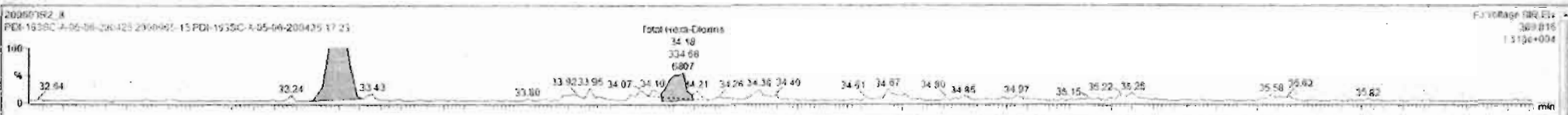


200603R2_8



SI	Name	Resp	FA	inj	RFI	injVol	RT	RRT	Comp	Area	Det	ExcV
39	Total Tetra-Chloris				0.8863	10.270			0.495	0.8527	0.496	
40	Total Penta-Chloris				0.9081	10.270			0.201	0.8884	0.262	

SI	Name	RT	inj Resp	inj Comp	FA	inj	EMPC	Coac.
1	Total Hexa-Chloris	33.24	6.916e2	6.973e2	1.42	NO	0.76815	0.75615
2	Total Hexa-Chloris	34.18	3.347e2	2.965e2	1.12	NO	0.26792	0.26792



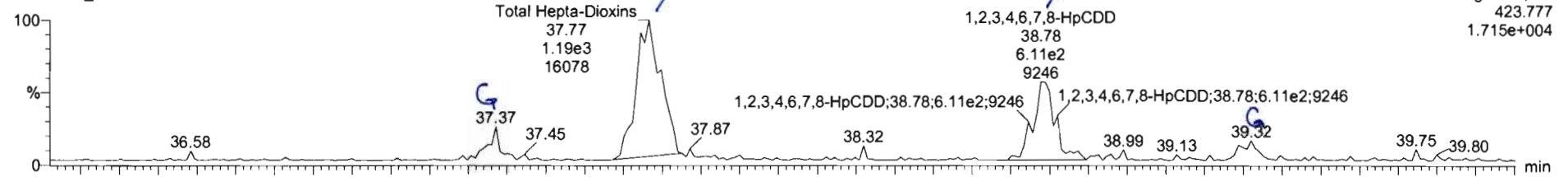
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Name: 200603R2_8, Date: 04-Jun-2020, Time: 01:16:23, ID: 2000965-15 PDI-163SC-A-05-06-200425 17.23, Description: PDI-163SC-A-05-06-200425

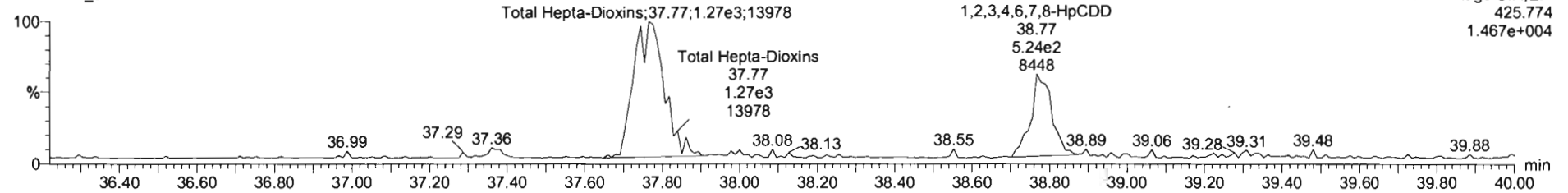
1,2,3,4,6,7,8-HpCDD

200603R2_8



F4:Voltage SIR,EI+
423.777
1.715e+004

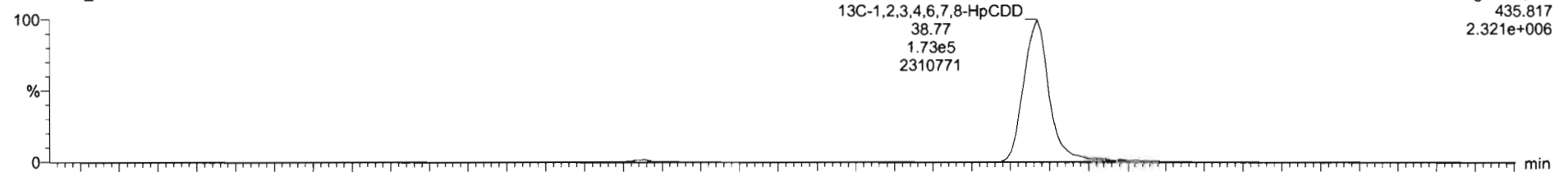
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F4:Voltage SIR,EI+
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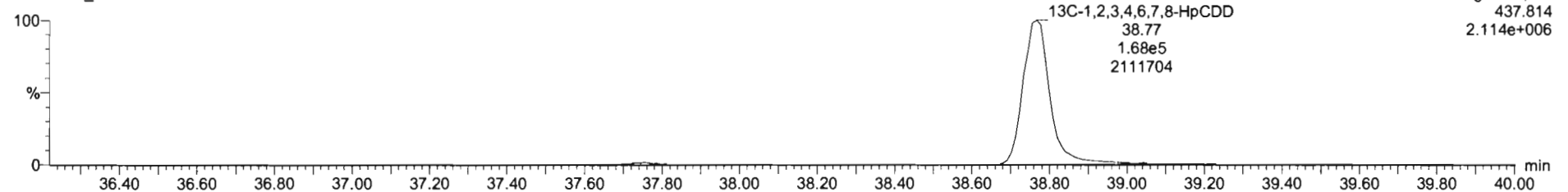
13C-1,2,3,4,6,7,8-HpCDD

200603R2_8



F4:Voltage SIR,EI+
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2.321e+006

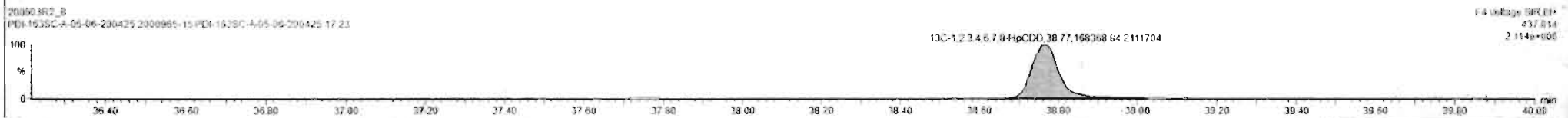
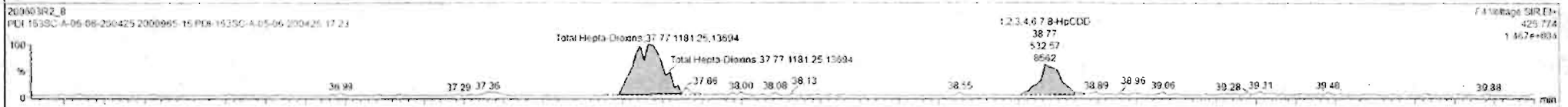
200603R2_8



F4:Voltage SIR,EI+
437.814
2.114e+006

ID	Name	Insp	RA	inj	Rint	injVol	IS	NIT	Conn	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.8638	10.276			2.33		0.198	2.33
43	Total Tetra-Furans				0.7510	10.276					0.0147	

ID	Name	RT	m1 Resp	m2 Resp	RA	inj	EMPC	Conn
1	Total Hepta-Dioxins	37.77	1.216e3	1.181e3	1.03	NO	1.5067	1.5867
2	1,2,3,4,6,7,8-HpCDD	38.78	5.861e2	5.326e2	1.10	NO	0.73966	0.72896

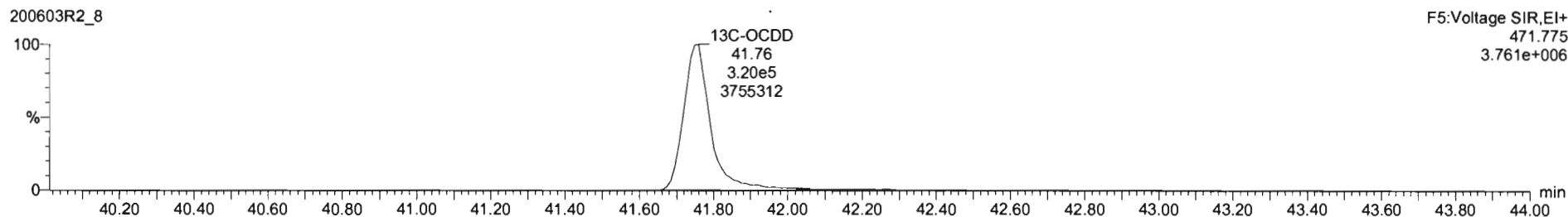
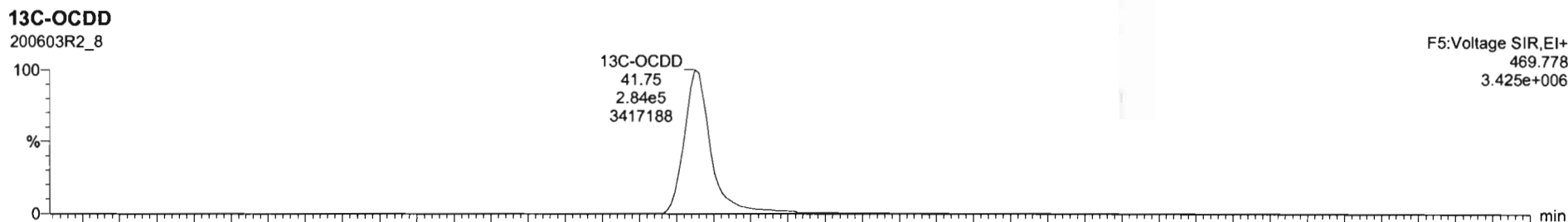
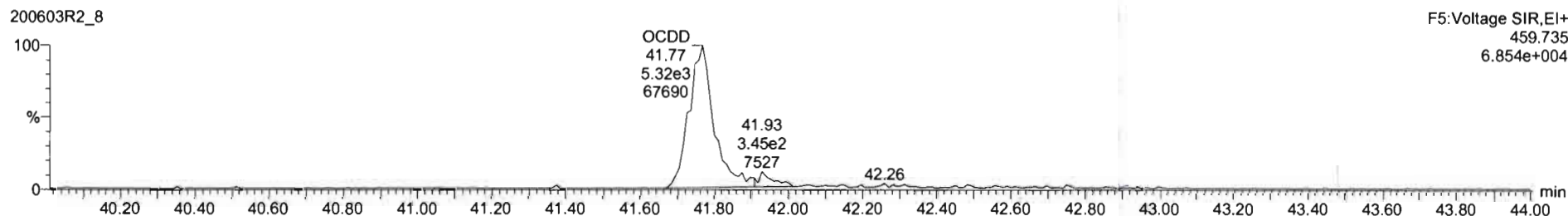
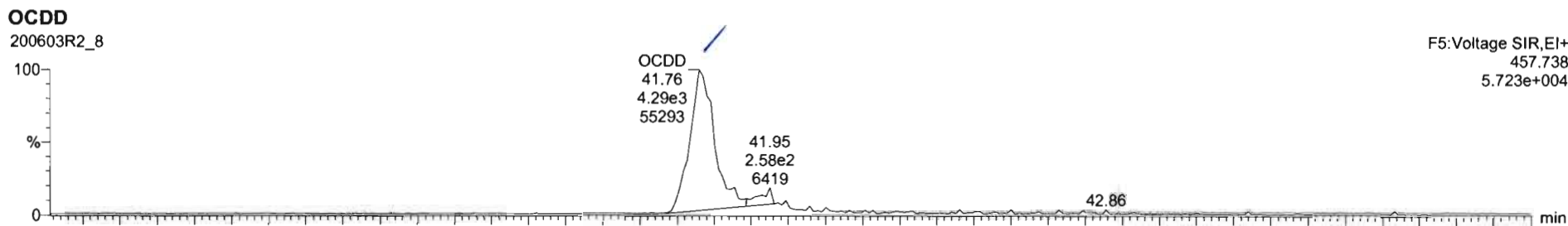


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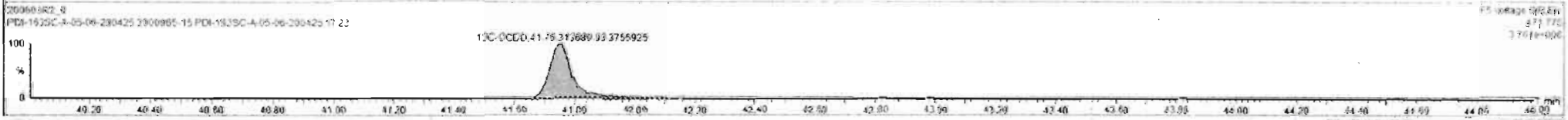
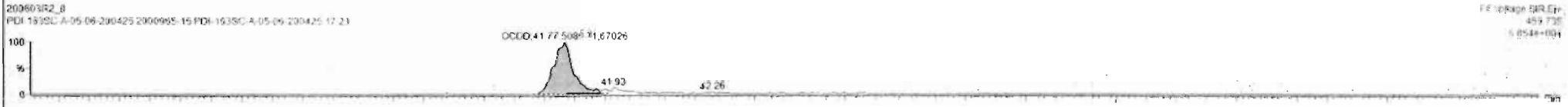
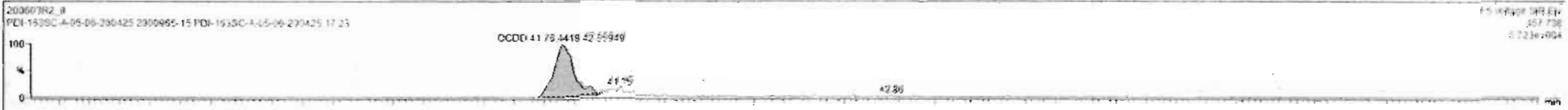
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Name: 200603R2_8, Date: 04-Jun-2020, Time: 01:16:23, ID: 2000965-15 PDI-163SC-A-05-06-200425 17.23, Description: PDI-163SC-A-05-06-200425



Name	Resp	RA	Qty	RRT	wt/val	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	9.56e1	0.87	NO	0.2135	10.273	41.76	1.000	0.83	0.201	0.83
8	2,3,7,8-TCDF			NO	0.7510	10.272				0.0326	

Name	RT	Int Resp	Int Resp	RA	Qty	EMPC	Conc
1							

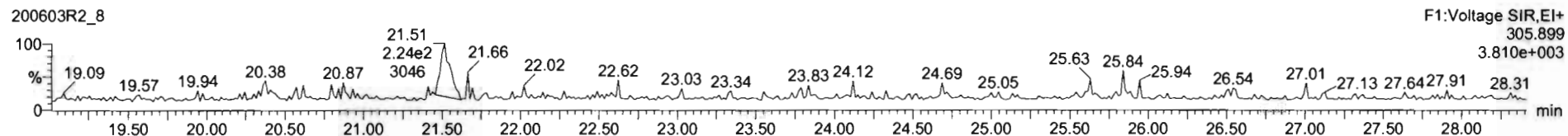
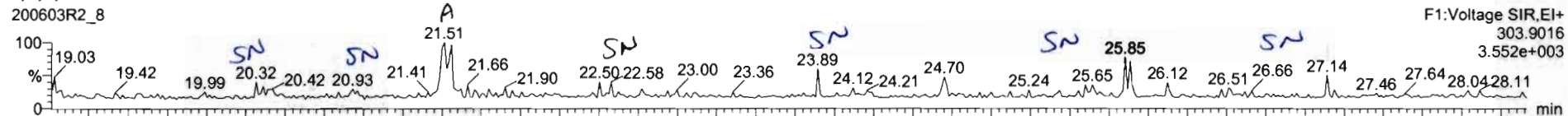


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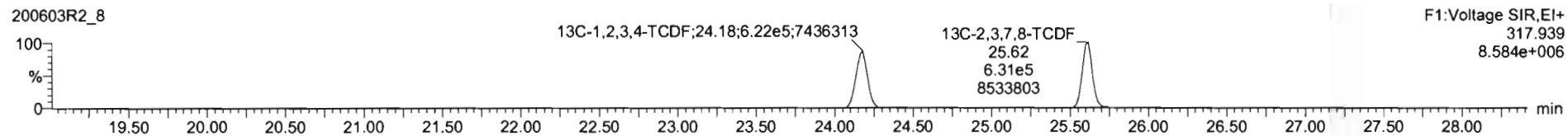
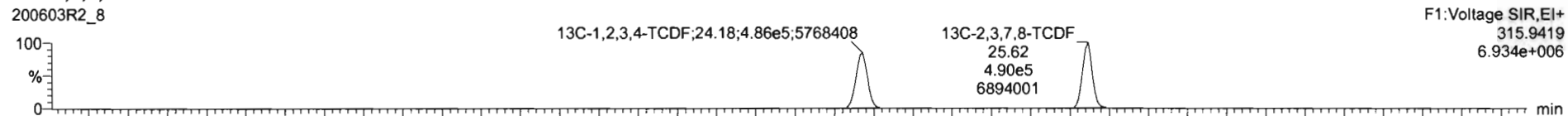
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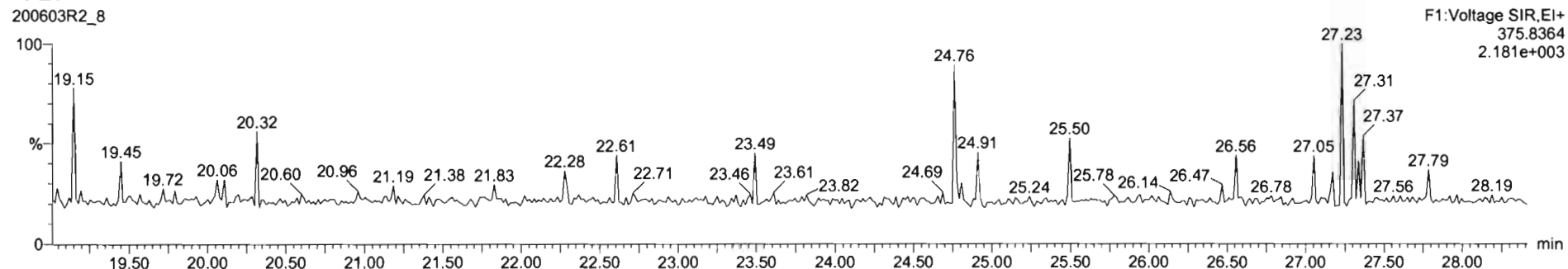
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13C-2,3,7,8-TCDF

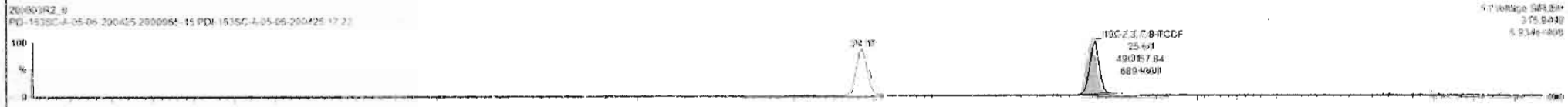
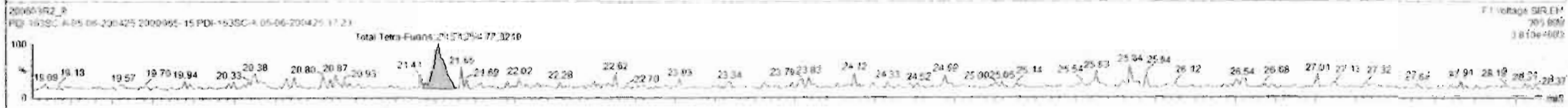


DPE1



SI	Name	Resp	RA	ely	RDF	whvol	RT	RTT	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.86%	10.270			2.33	0.190	0.30	
43	Total Tetra-Furans				0.7510	10.270			0.000	0.0147	0.111	

SI	Name	RT	m1 Resp	m2 Resp	RA	ely	EMPC	Conc
1	Total Tetra-Furans	21.51	2.242e2	2.548e2	0.28	NO	0.110E3	0.00000



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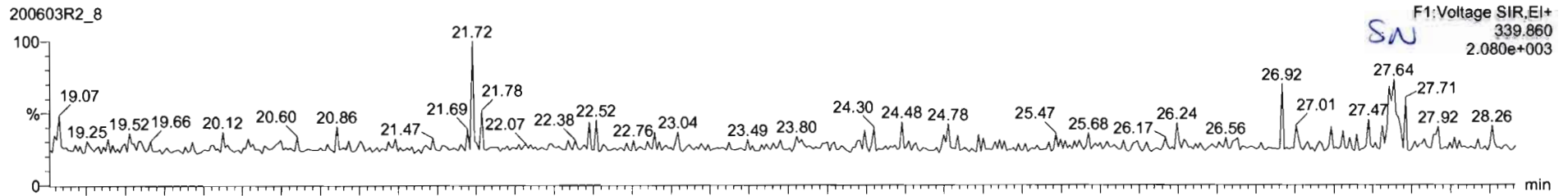
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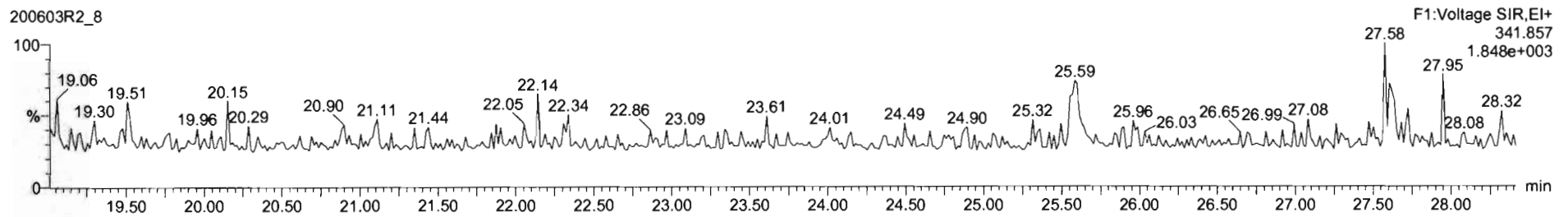
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1st Func. Penta-Furans

200603R2_8

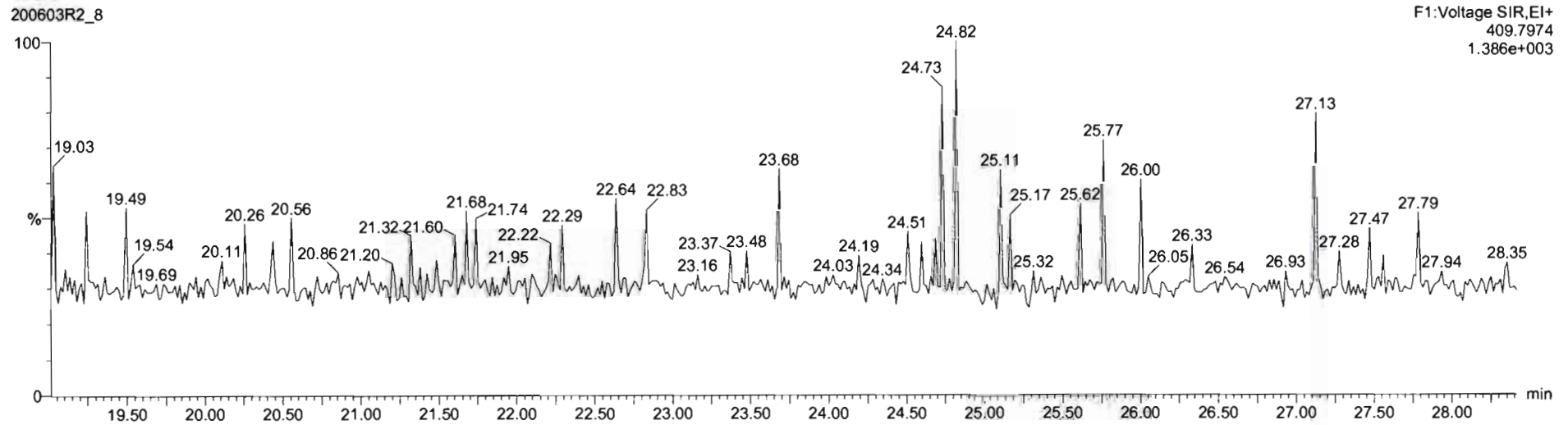


200603R2_8



DPE6

200603R2_8



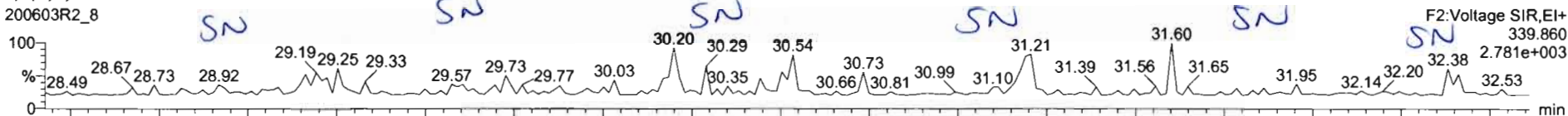
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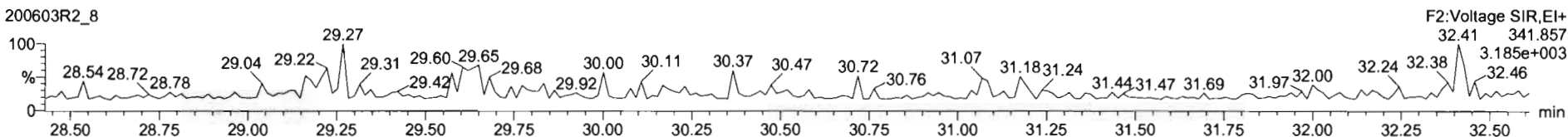
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1,2,3,7,8-PeCDF

200603R2_8

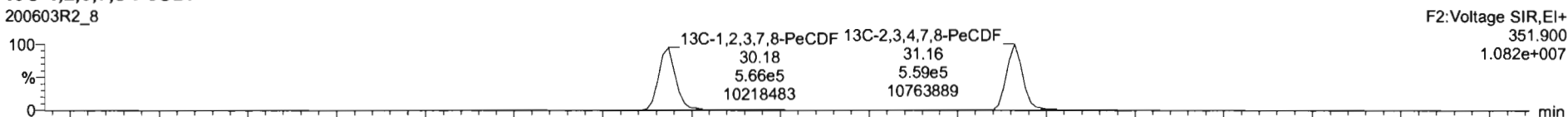


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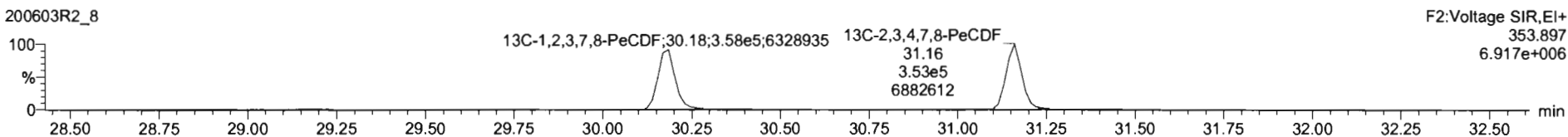


13C-1,2,3,7,8-PeCDF

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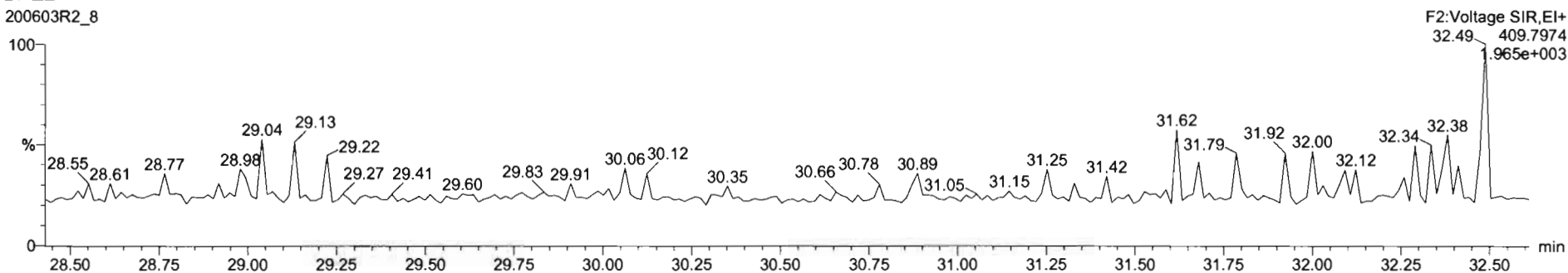


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DPE2

200603R2_8



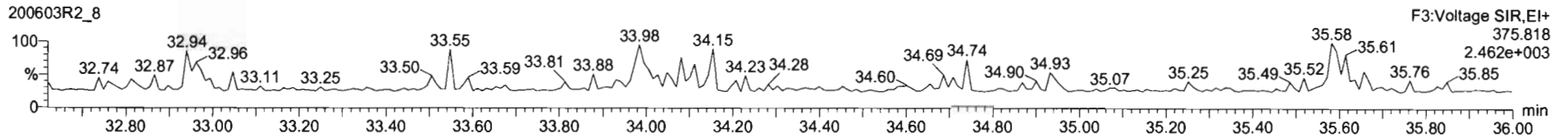
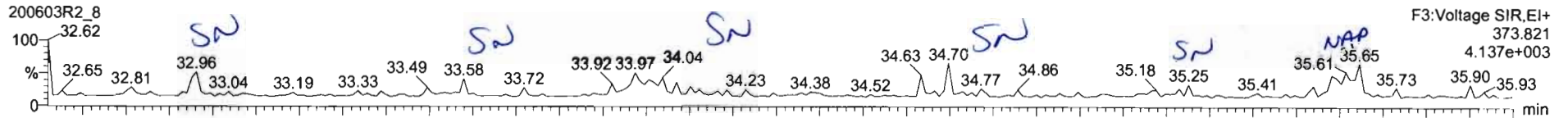
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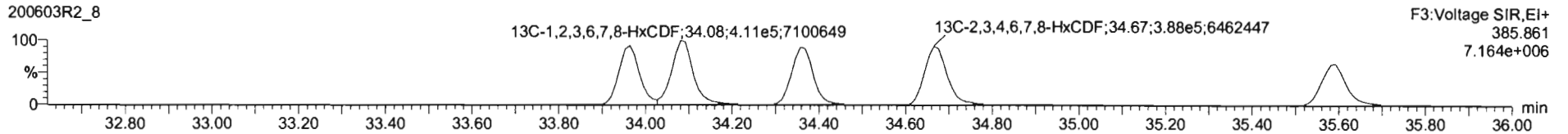
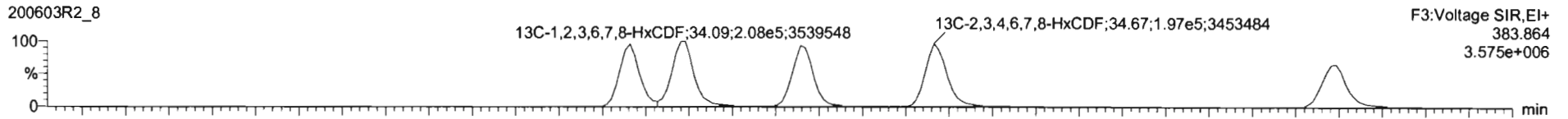
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Name: 200603R2_8, Date: 04-Jun-2020, Time: 01:16:23, ID: 2000965-15 PDI-163SC-A-05-06-200425 17.23, Description: PDI-163SC-A-05-06-200425

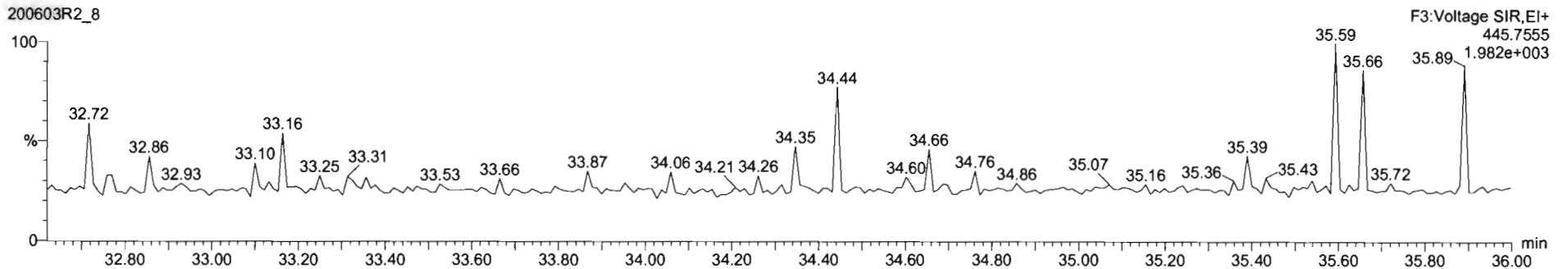
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13C-1,2,3,4,7,8-HxCDF



DPE3



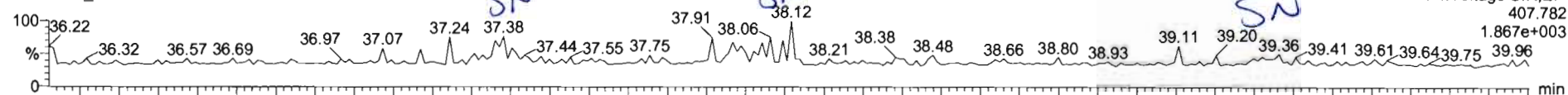
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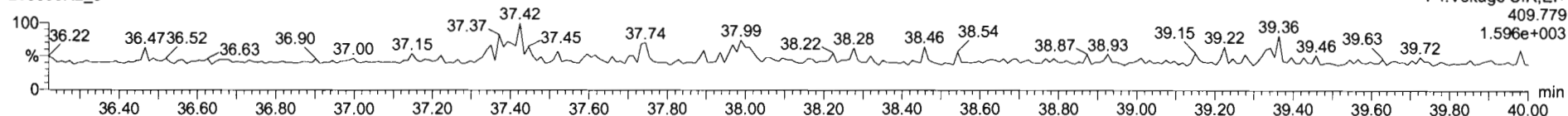
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1,2,3,4,6,7,8-HpCDF

200603R2_8

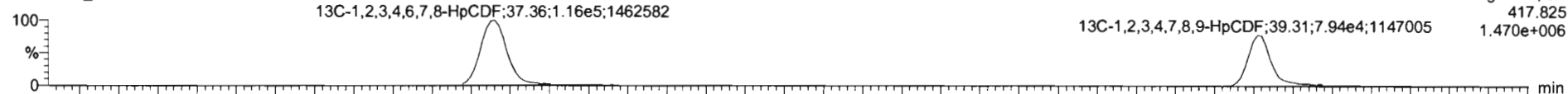


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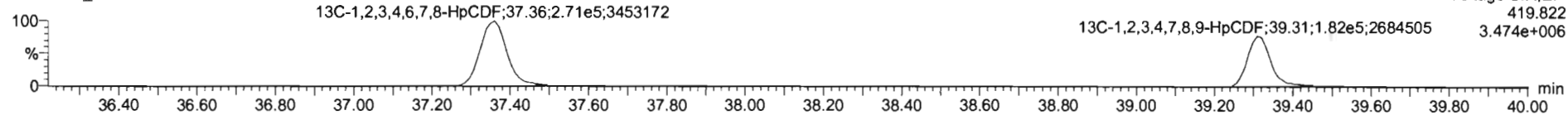


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200603R2_8

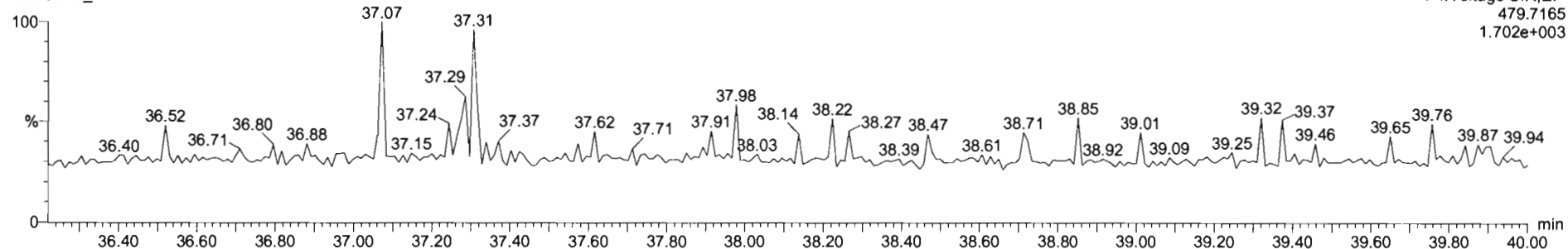


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DPE4

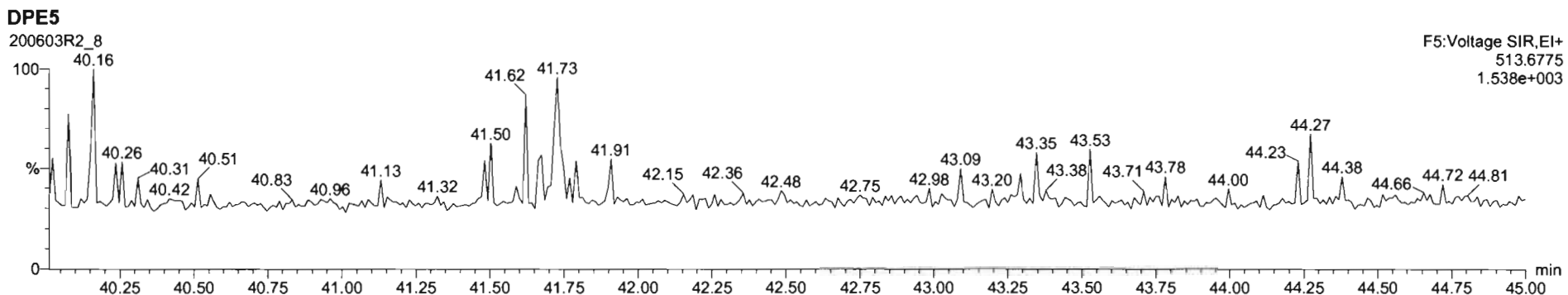
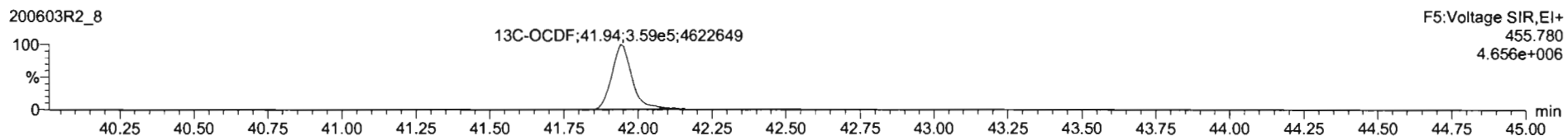
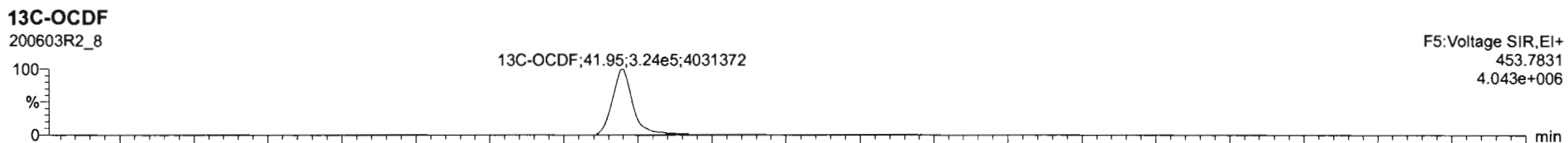
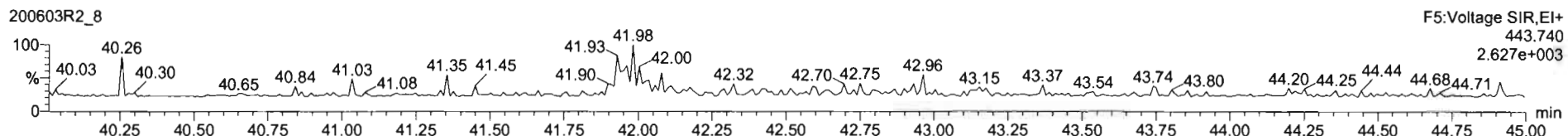
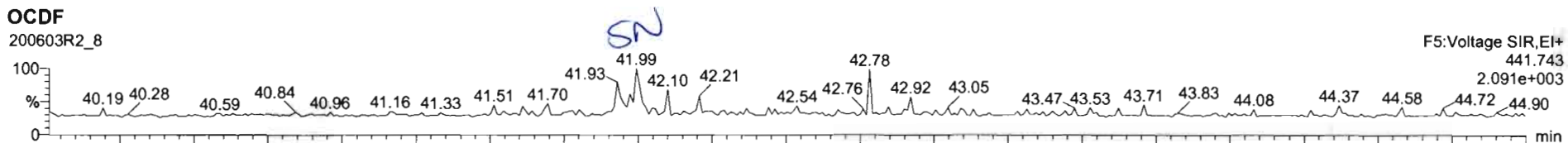
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Last Altered: Thursday, June 04, 2020 07:35:03 Pacific Daylight Time
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Name: 200603R2_8, Date: 04-Jun-2020, Time: 01:16:23, ID: 2000965-15 PDI-163SC-A-05-06-200425 17.23, Description: PDI-163SC-A-05-06-200425



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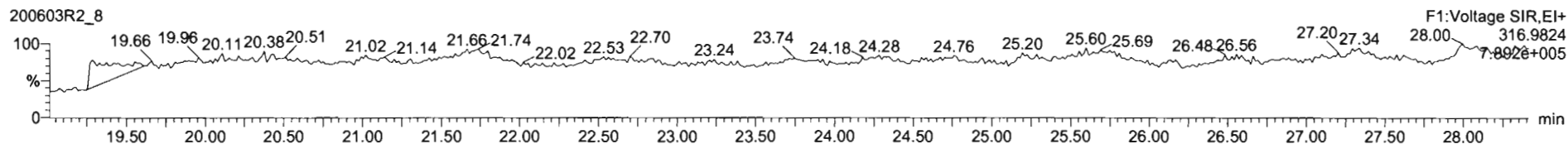
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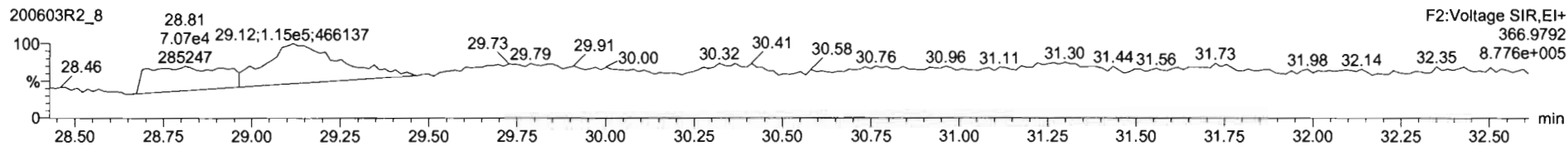
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200603R2_8



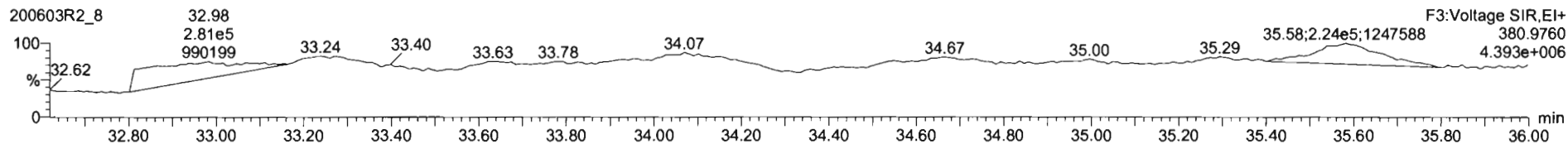
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200603R2_8



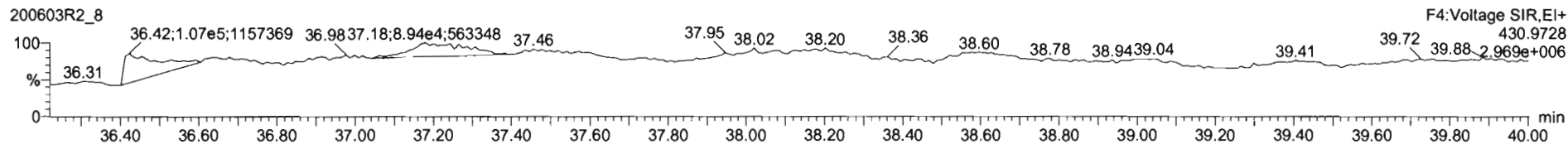
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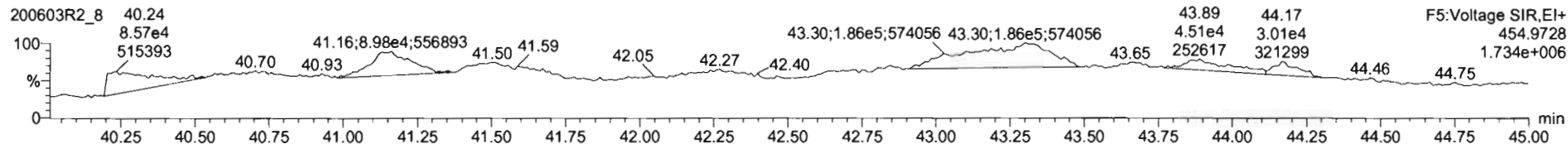
PFK4

200603R2_8



PFK5

200603R2_8



Dataset: U:\VG12.PRO\Results\200603R2\200603R2-9.qld

Last Altered: Thursday, June 04, 2020 09:22:20 Pacific Daylight Time
Printed: Thursday, June 04, 2020 09:23:26 Pacific Daylight Time

GRB 06/04/2020

07/06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_9, Date: 04-Jun-2020, Time: 02:02:36, ID: 2000965-16 PDI-163SC-A-06-07-200425 16.29, Description: PDI-163SC-A-06-07-200425

#	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	0.888	10.402	26.516		1.001				0.0582	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.402	31.473		1.001				0.0724	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.402	34.836		1.000				0.113	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.402	34.932		1.000				0.113	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.402	35.220		1.000				0.129	
6	6 1,2,3,4,6,7,8-HpCDD	7.50e2	1.09	NO	0.864	10.402	38.757	38.78	1.000	1.001	0.55024		0.137	0.550
7	7 OCDD	6.68e3	0.89	NO	0.914	10.402	41.738	41.75	1.000	1.000	5.2480		0.187	5.25
8	8 2,3,7,8-TCDF			NO	0.751	10.402	25.627		1.001				0.0336	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.402	30.190		1.001				0.0374	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.402	31.176		1.001				0.0360	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.402	33.952		1.000				0.0394	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.402	34.079		1.000				0.0374	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.402	34.690		1.001				0.0384	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.402	35.582		1.000				0.0573	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.402	37.387		1.001				0.0634	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.402	39.299		1.000				0.0685	
17	17 OCDF	2.39e2	0.86	NO	0.806	10.402	41.930	41.98	1.000	1.001	0.18646		0.0840	0.186
18	18 13C-2,3,7,8-TCDD	7.98e5	0.81	NO	1.16	10.402	26.522	26.48	1.026	1.025	189.87	98.7	0.215	
19	19 13C-1,2,3,7,8-PeCDD	5.68e5	0.63	NO	0.849	10.402	31.711	31.45	1.227	1.217	183.98	95.7	0.229	
20	20 13C-1,2,3,4,7,8-HxCDD	3.97e5	1.27	NO	0.779	10.402	34.830	34.83	1.014	1.014	189.00	98.3	0.618	
21	21 13C-1,2,3,6,7,8-HxCDD	4.92e5	1.30	NO	1.02	10.402	34.944	34.93	1.017	1.017	179.53	93.4	0.473	
22	22 13C-1,2,3,7,8,9-HxCDD	4.38e5	1.21	NO	0.903	10.402	35.215	35.21	1.025	1.025	179.88	93.6	0.533	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.03e5	1.04	NO	0.689	10.402	38.739	38.74	1.128	1.128	163.40	85.0	0.614	
24	24 13C-OCDD	5.36e5	0.89	NO	0.652	10.402	41.761	41.74	1.216	1.215	304.97	79.3	0.607	
25	25 13C-2,3,7,8-TCDF	9.95e5	0.78	NO	1.06	10.402	25.564	25.60	0.989	0.991	174.93	91.0	0.248	
26	26 13C-1,2,3,7,8-PeCDF	8.60e5	1.60	NO	0.838	10.402	30.093	30.17	1.165	1.168	191.12	99.4	0.478	
27	27 13C-2,3,4,7,8-PeCDF	8.24e5	1.59	NO	0.817	10.402	31.047	31.15	1.202	1.205	187.80	97.7	0.491	
28	28 13C-1,2,3,4,7,8-HxCDF	5.02e5	0.50	NO	1.01	10.402	33.961	33.95	0.989	0.989	184.92	96.2	0.794	
29	29 13C-1,2,3,6,7,8-HxCDF	5.82e5	0.51	NO	1.17	10.402	34.085	34.07	0.992	0.992	184.91	96.2	0.686	
30	30 13C-2,3,4,6,7,8-HxCDF	5.40e5	0.50	NO	1.02	10.402	34.659	34.65	1.009	1.009	196.17	102	0.783	
31	31 13C-1,2,3,7,8,9-HxCDF	4.20e5	0.51	NO	0.860	10.402	35.558	35.58	1.035	1.036	181.38	94.3	0.931	

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-9.qld

Last Altered: Thursday, June 04, 2020 09:22:20 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:23:26 Pacific Daylight Time

Name: 200603R2_9, Date: 04-Jun-2020, Time: 02:02:36, ID: 2000965-16 PDI-163SC-A-06-07-200425 16.29, Description: PDI-163SC-A-06-07-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.51e5	0.43	NO	0.774	10.402	37.307	37.35	1.086	1.087	168.14	87.4	0.486	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.40e5	0.43	NO	0.521	10.402	39.336	39.30	1.145	1.144	170.67	88.8	0.722	
34	34 13C-OCDF	6.12e5	0.92	NO	0.746	10.402	41.933	41.93	1.221	1.221	304.40	79.2	0.473	
35	35 37Cl-2,3,7,8-TCDD	2.64e5			1.04	10.402	26.553	26.51	1.028	1.026	70.004	91.0	0.0548	
36	36 13C-1,2,3,4-TCDD	6.99e5	0.79	NO	1.00	10.402	25.890	25.84	1.000	1.000	192.28	100	0.248	
37	37 13C-1,2,3,4-TCDF	1.03e6	0.79	NO	1.00	10.402	24.360	24.15	1.000	1.000	192.28	100	0.263	
38	38 13C-1,2,3,4,6,9-HxCDF	5.18e5	0.51	NO	1.00	10.402	34.420	34.35	1.000	1.000	192.28	100	0.800	
39	39 Total Tetra-Dioxins				0.888	10.402	24.620		0.000		0.42156		0.0582	0.422
40	40 Total Penta-Dioxins				0.908	10.402	29.960		0.000		0.00000		0.0364	0.119
41	41 Total Hexa-Dioxins				0.892	10.402	33.635		0.000		0.63872		0.123	0.639
42	42 Total Hepta-Dioxins				0.864	10.402	37.640		0.000		1.6587		0.137	1.66
43	43 Total Tetra-Furans				0.751	10.402	23.610		0.000		0.00000		0.0144	0.188
44	44 1st Func. Penta-Furans				0.893	10.402	27.580		0.000				0.00869	
45	45 Total Penta-Furans				0.893	10.402	29.275		0.000				0.0164	
46	46 Total Hexa-Furans				0.934	10.402	33.555		0.000				0.0206	
47	47 Total Hepta-Furans				0.873	10.402	37.835		0.000				0.0283	

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Dataset: U:\VG12.PRO\Results\200603R2\200603R2-9.qld

Last Altered: Thursday, June 04, 2020 09:22:20 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:23:26 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_9, Date: 04-Jun-2020, Time: 02:02:36, ID: 2000965-16 PDI-163SC-A-06-07-200425 16.29, Description: PDI-163SC-A-06-07-200425

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.31	8.427e3	1.067e4	6.554e2	8.984e2	0.73	NO	1.554e3	0.42156	0.42156	0.0582

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.73	2.388e3	7.692e3	1.230e2	3.286e2	0.37	YES	0.000e0	0.00000	0.11868	0.0364

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	1.450e4	1.203e4	7.209e2	5.894e2	1.22	NO	1.310e3	0.63872	0.63872	0.123

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.76	1.451e4	1.171e4	7.883e2	7.232e2	1.09	NO	1.511e3	1.1085	1.1085	0.137
2	1,2,3,4,6,7,8-HpCDD	38.78	6.676e3	5.028e3	3.913e2	3.590e2	1.09	NO	7.503e2	0.55024	0.55024	0.137

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.49	3.511e3	6.440e3	3.184e2	4.872e2	0.65	YES	0.000e0	0.00000	0.18831	0.0336

Penta-Furans function 1

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

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Dataset: U:\VG12.PRO\Results\200603R2\200603R2-9.qld

Last Altered: Thursday, June 04, 2020 09:22:20 Pacific Daylight Time

Printed: Thursday, June 04, 2020 09:23:26 Pacific Daylight Time

Name: 200603R2_9, Date: 04-Jun-2020, Time: 02:02:36, ID: 2000965-16 PDI-163SC-A-06-07-200425 16.29, Description: PDI-163SC-A-06-07-200425

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

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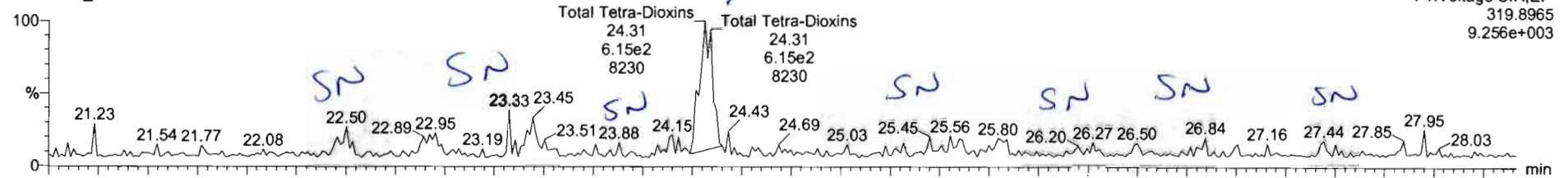
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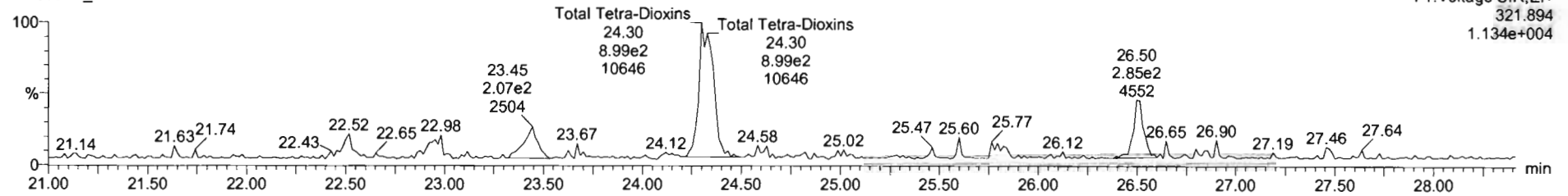
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2,3,7,8-TCDD

200603R2_9

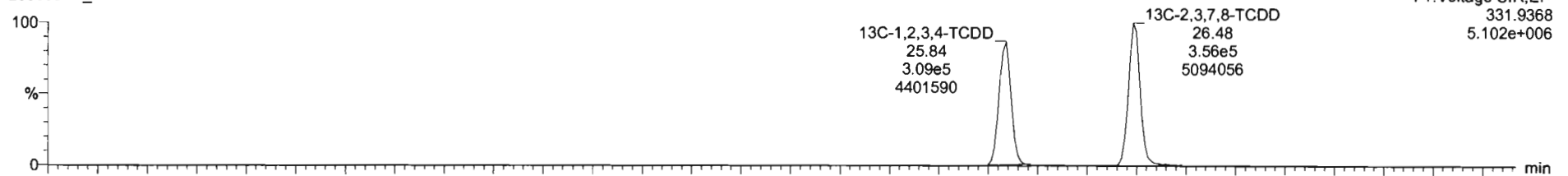


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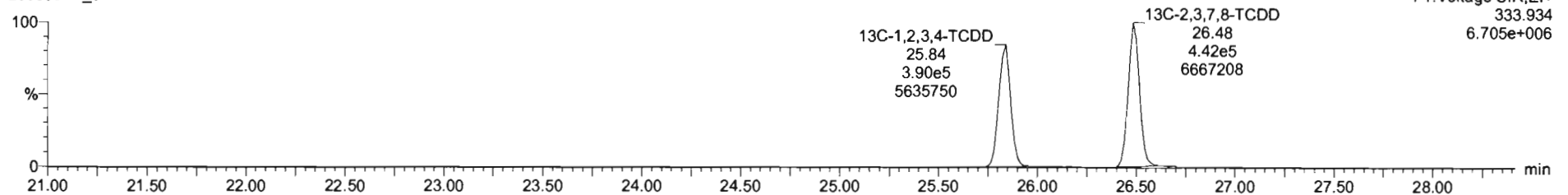


13C-2,3,7,8-TCDD

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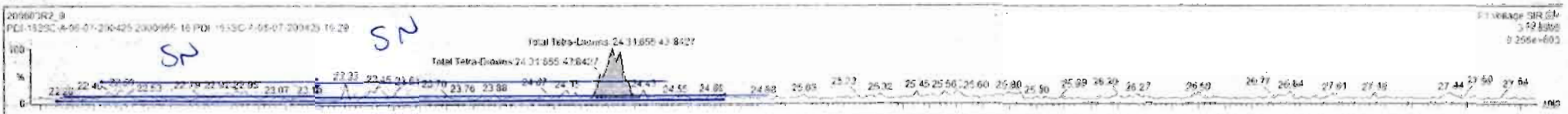


200603R2_9



SI	Name	Resp	RA	inj	RFI	Wt	OT	RRT	Conc	%Rec	DL	DFPC
29	Total Tetra-Chloro				0.0083	10.462			0.427		0.0082	0.42
40	Total Penta-Chloro				0.0081	10.462					0.0084	

SI	Name	RT	ml Resp	ml Resp	RA	inj	EMTD	Sec
1	Total Tetra-Chloro	24.31	8.51402	8.76162	0.73	NO	0.42188	0.42198



Dataset: Untitled

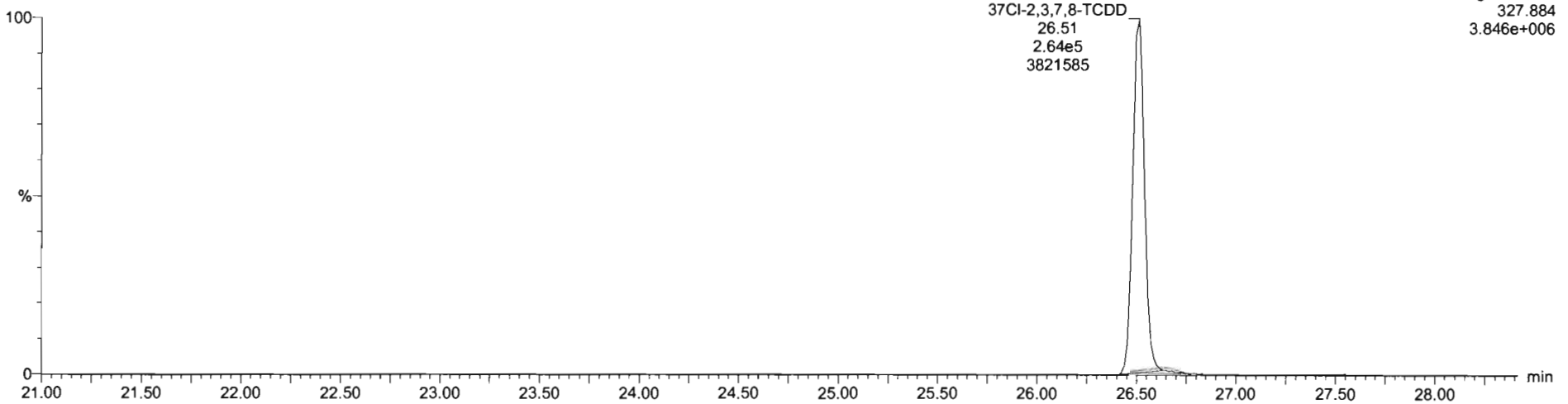
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Name: 200603R2_9, Date: 04-Jun-2020, Time: 02:02:36, ID: 2000965-16 PDI-163SC-A-06-07-200425 16.29, Description: PDI-163SC-A-06-07-200425

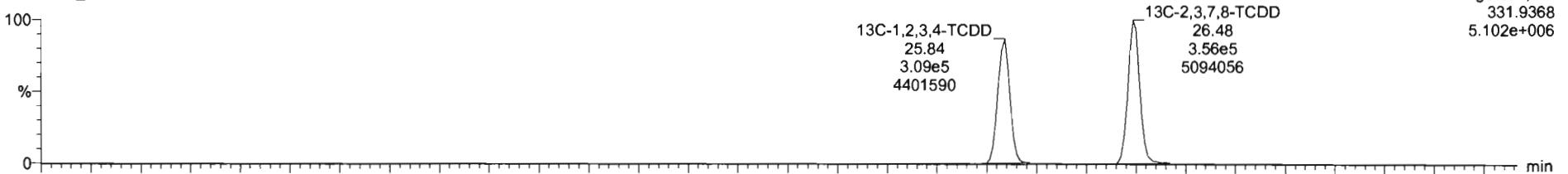
37Cl-2,3,7,8-TCDD

200603R2_9

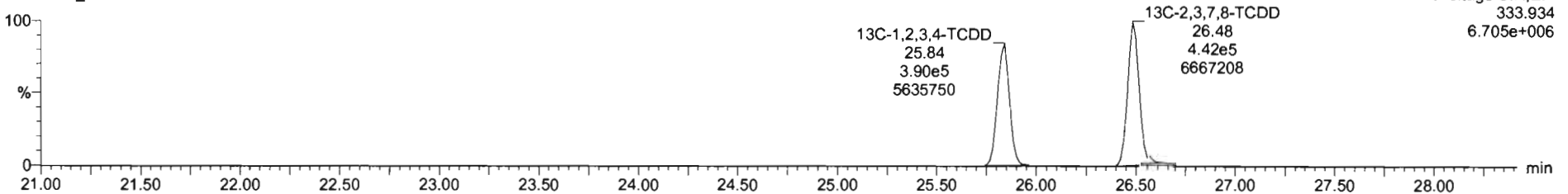


13C-1,2,3,4-TCDD

200603R2_9



200603R2_9



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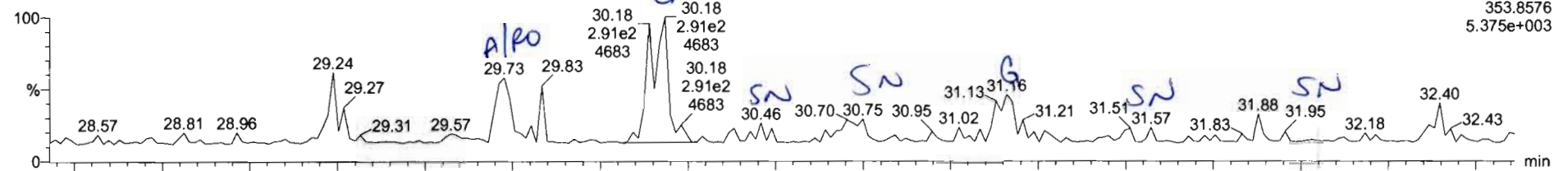
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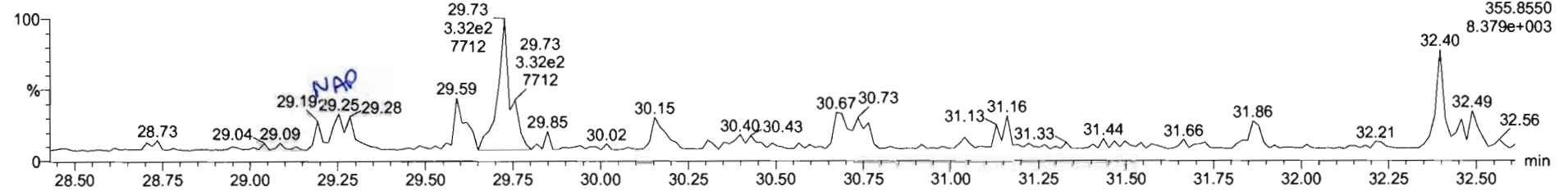
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1,2,3,7,8-PeCDD

200603R2_9

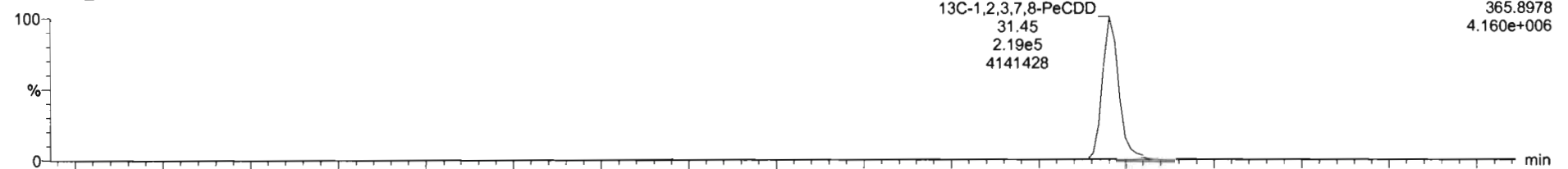


200603R2_9

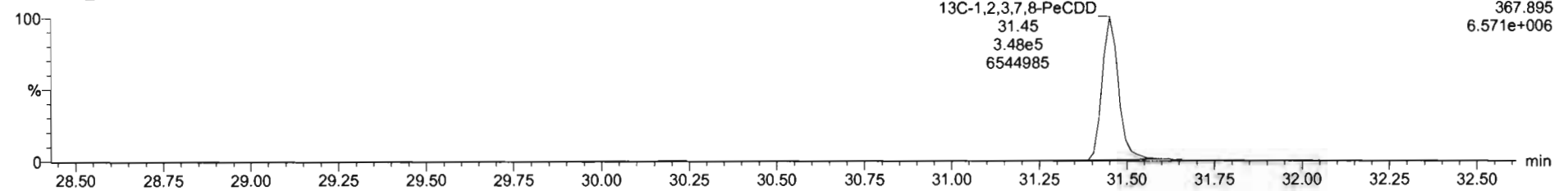


13C-1,2,3,7,8-PeCDD

200603R2_9

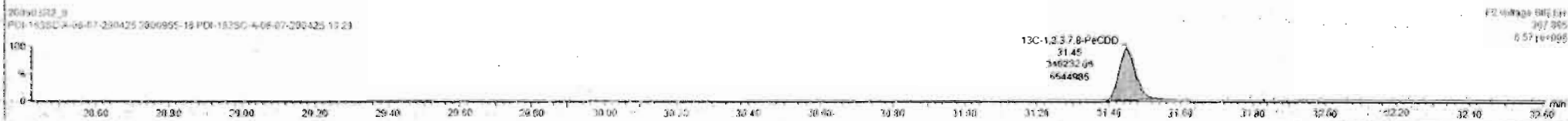
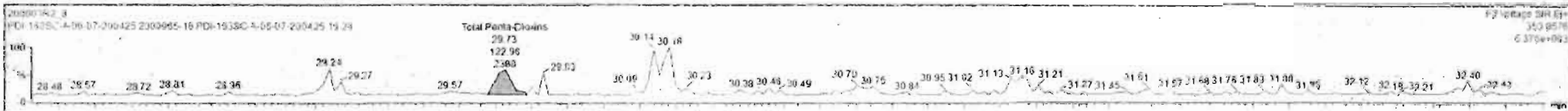


200603R2_9



N	Name	Resp	RA	ny	RRP	relvol	RT	NET	conc	NRAC	EX	IMP
39	Total Penta-Chloro				0.6063	13.402			1.422		0.0552	0.432
40	Total Penta-Diortho				0.9081	10.472			1.003		0.0391	0.179

N	Name	RT	ml/min	nc Resp	RA	ny	KMPG	Conc
1	Total Penta-Diortho	29.73	1.250x2	3.296x2	0.27	YES	0.11885	0.00000



Dataset: Untitled

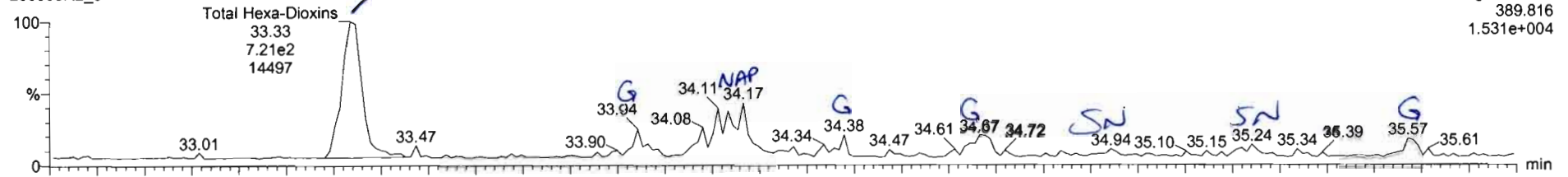
Last Altered: Thursday, June 04, 2020 07:35:03 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

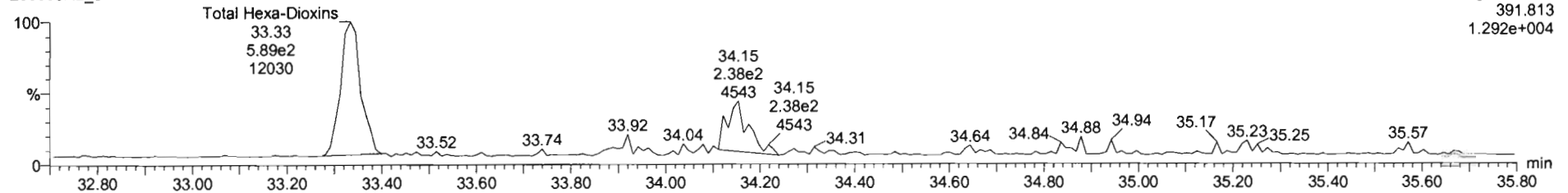
Name: 200603R2_9, Date: 04-Jun-2020, Time: 02:02:36, ID: 2000965-16 PDI-163SC-A-06-07-200425 16.29, Description: PDI-163SC-A-06-07-200425

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

200603R2_9

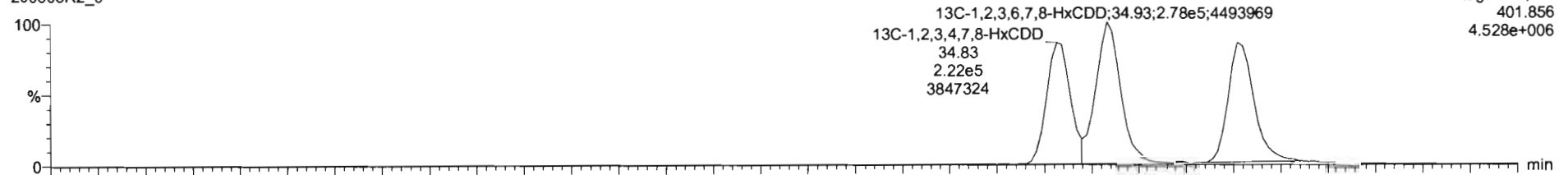


200603R2_9

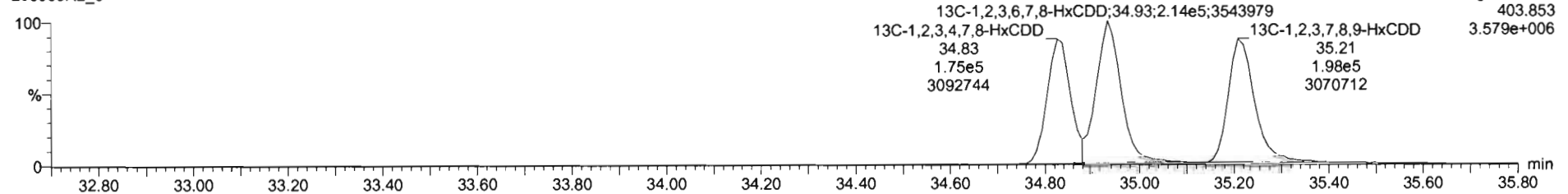


13C-1,2,3,4,7,8-HxCDD

200603R2_9



200603R2_9



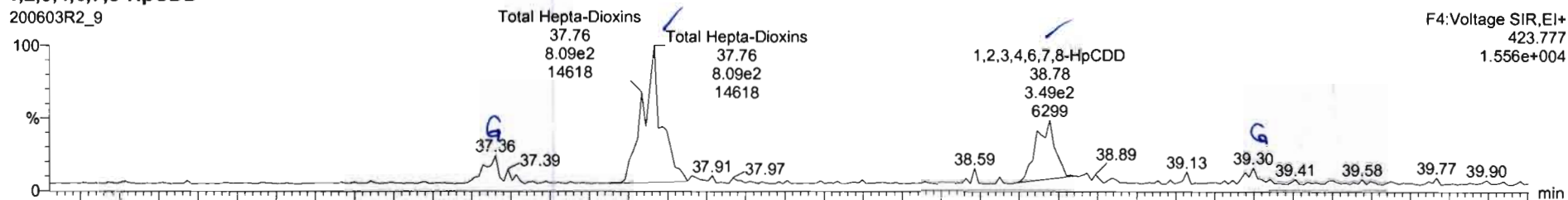
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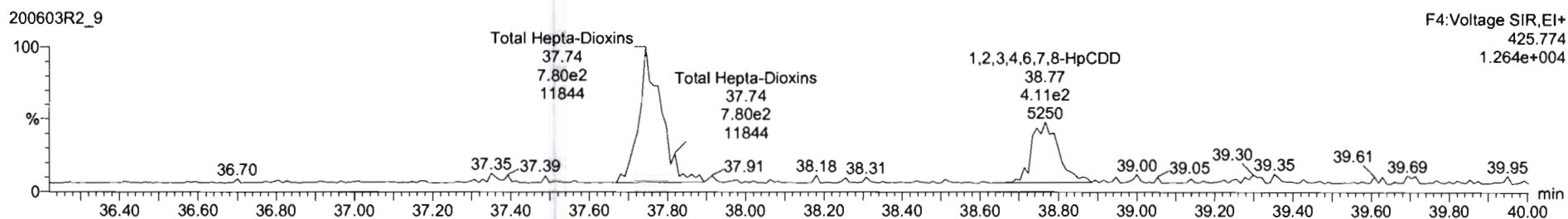
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1,2,3,4,6,7,8-HpCDD

200603R2_9

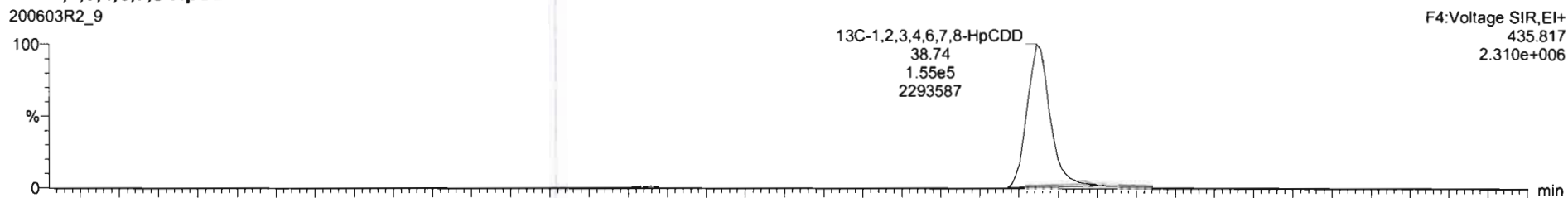


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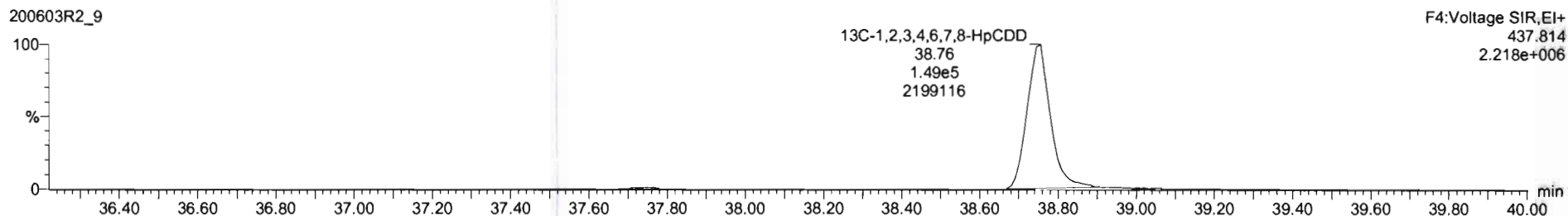


13C-1,2,3,4,6,7,8-HpCDD

200603R2_9

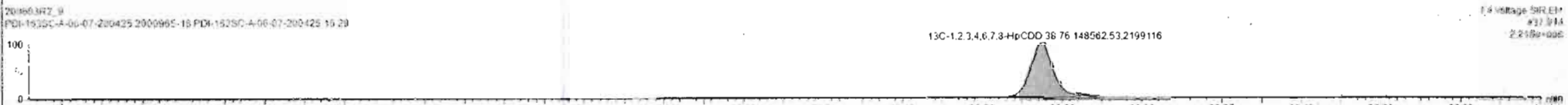
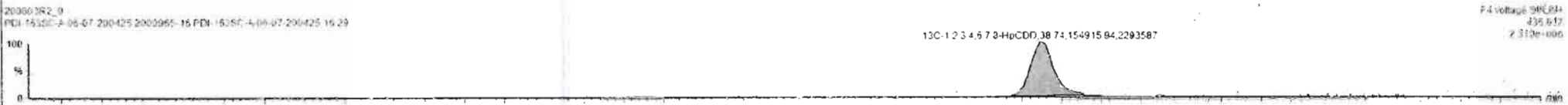
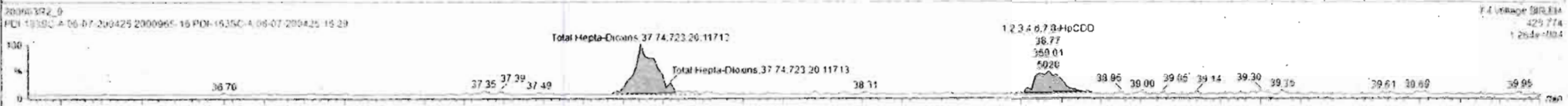
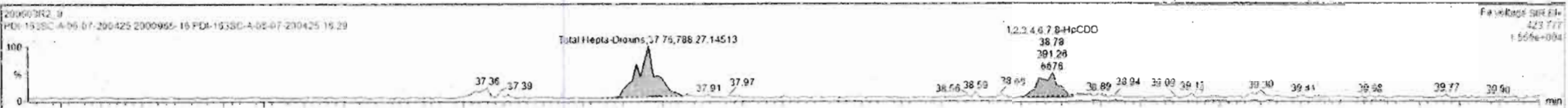


200603R2_9



Name	Resp	RA	ny	RRF	wvdg	RI	RLT	Conc	%Rec	DI	EMPC
42 Total Hepta-Dioxins				0.7535	10.402			1.56	8.127	1.66	
43 Total Tetra-Furans				0.7510	10.402			0.000	2.0143	0.185	

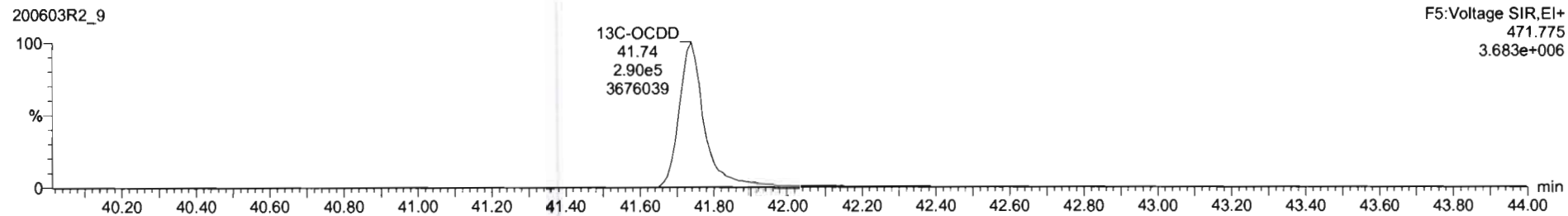
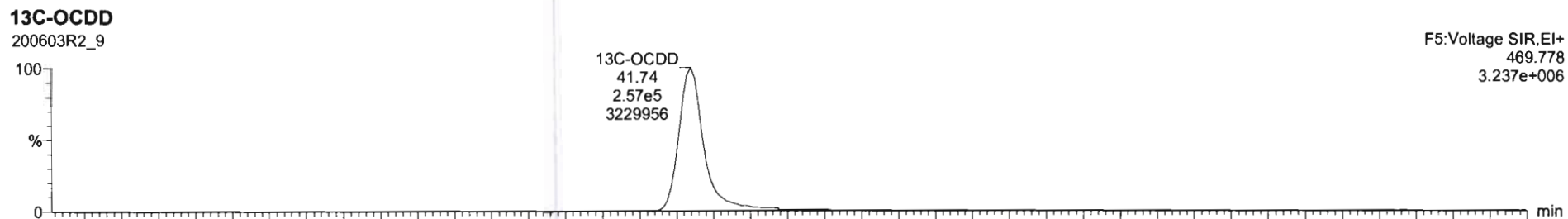
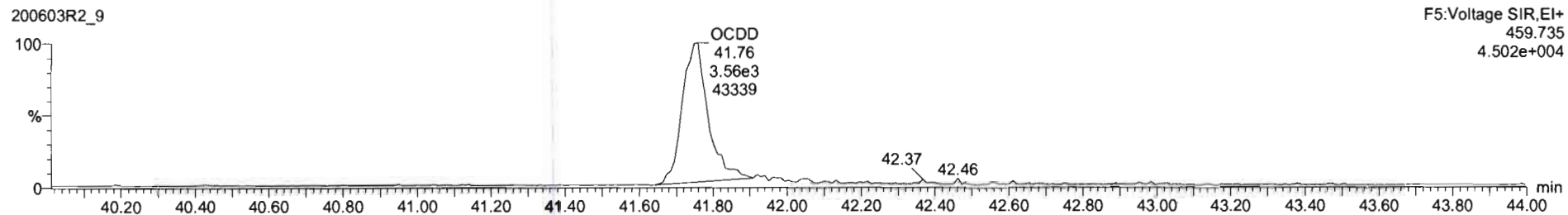
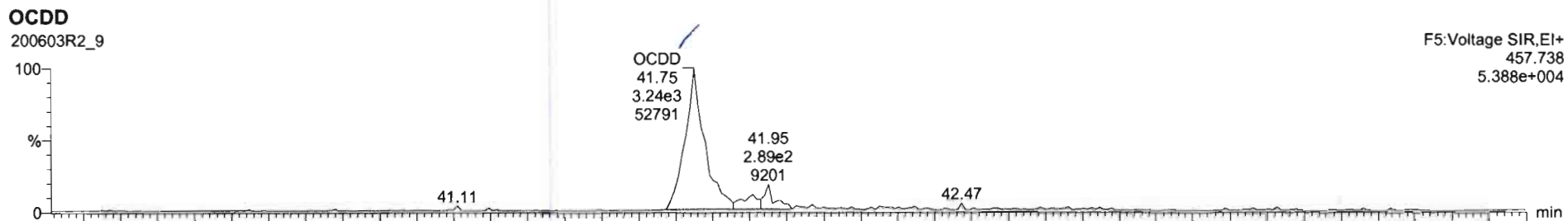
Name	RT	m1 Resc	nC Resp	SA	ny	EMPC	Conc
1 Total Hepta-Dioxins	37.76	7.853e2	7.232e2	1.09	NO	1.1685	1.1685
2 1,2,3,4,6,7,8-HpCDD	38.78	3.913e2	3.590e2	1.09	NO	0.55024	0.55024



Dataset: Untitled

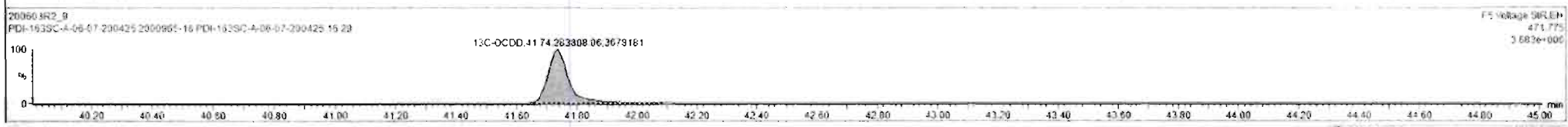
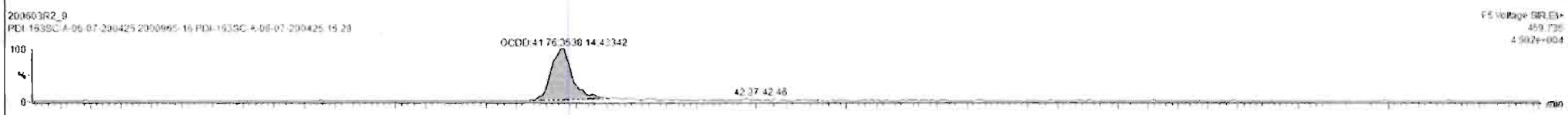
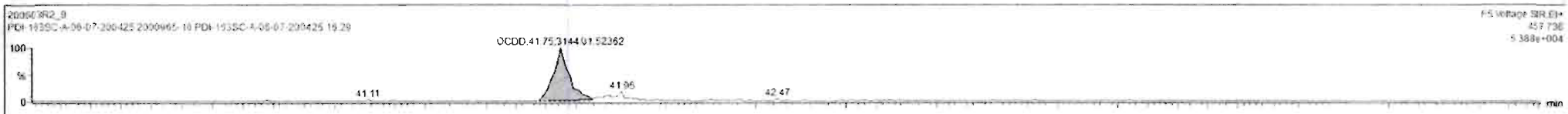
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Name: 200603R2_9, Date: 04-Jun-2020, Time: 02:02:36, ID: 2000965-16 PDI-163SC-A-06-07-200425 16.29, Description: PDI-163SC-A-06-07-200425



Name	Resp	RA	nly	RIR	wVol	RT	RRT	Conc	%Rec	Et	[14PC]
7	OCDD	6.66e3	6.85	NO	0.9136	10.462	41.75	1.000	5.25	0.107	5.25
8	2,3,7,8-TCDF			NO	0.7510	10.462				0.0336	

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

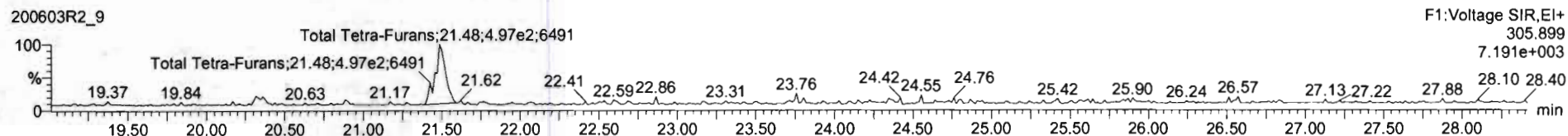
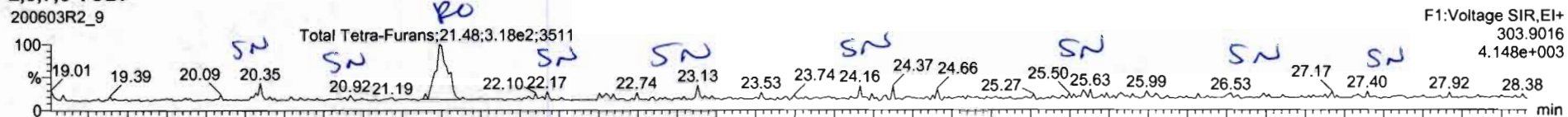


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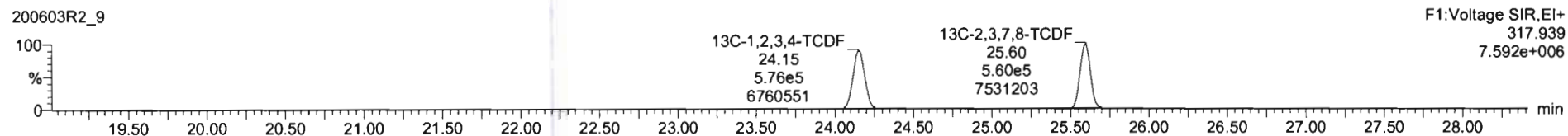
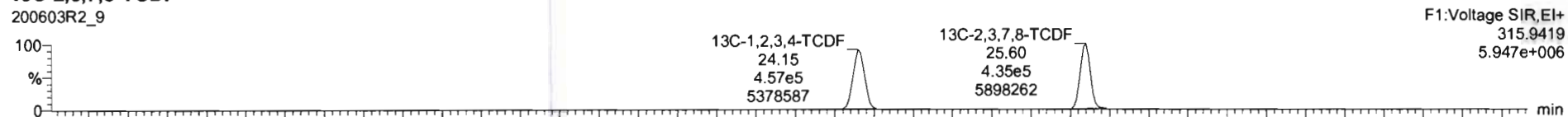
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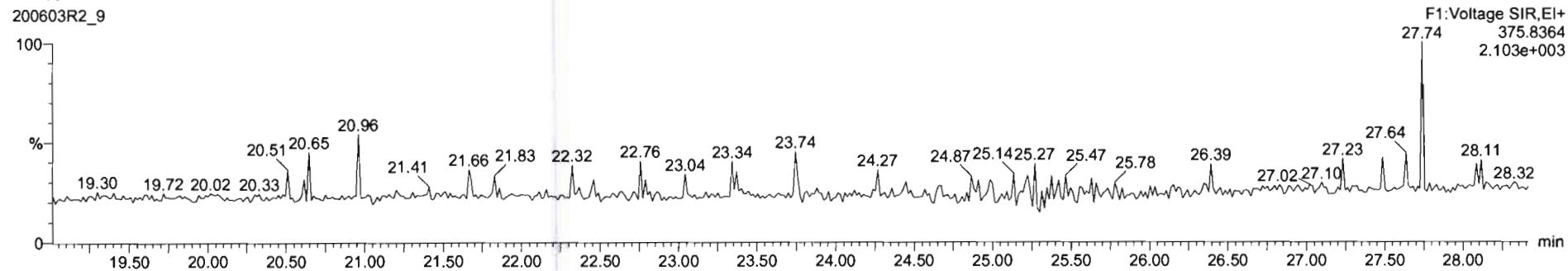
2,3,7,8-TCDF



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

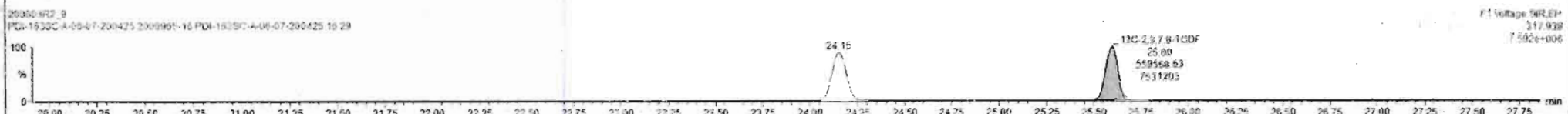
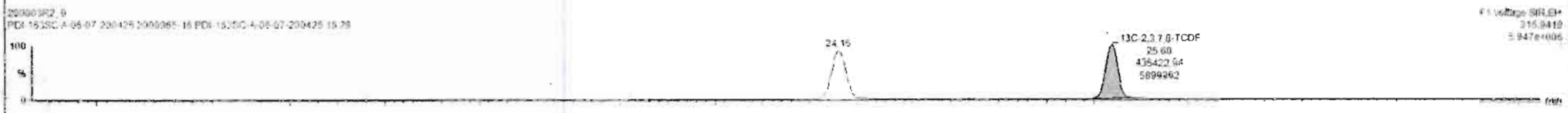
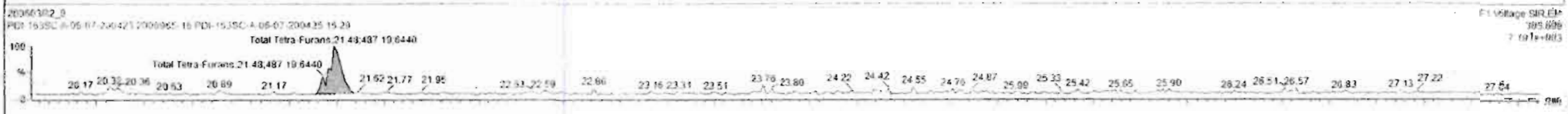
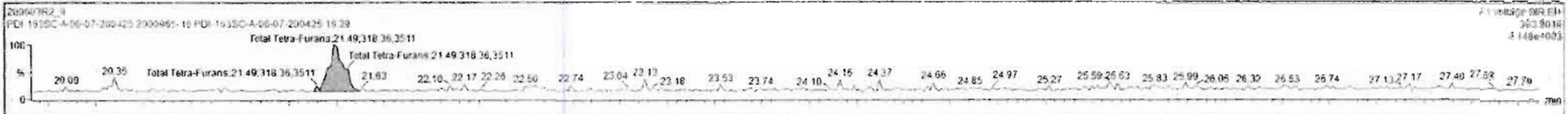


DPE1



Sample	Name	Resp	RA	ny	Res	wVol	RT	RRT	Conc	%Rec	DL	EMPC
42	Total Hexa-Dioxins				0.6639	10.402			1.60	0.127	1.00	
43	Total Tetra-Furans				0.7518	10.402			0.900	0.0144	0.185	

Sample	Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1	Total Tetra-Furans	21.42	1.184e2	4.572e2	0.66	YES	0.185e1	0.00000



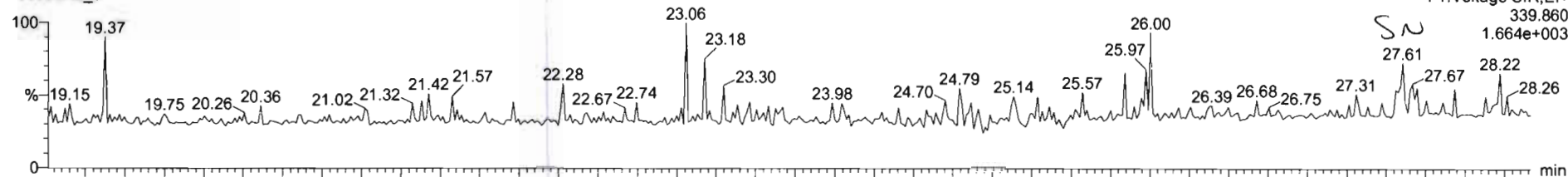
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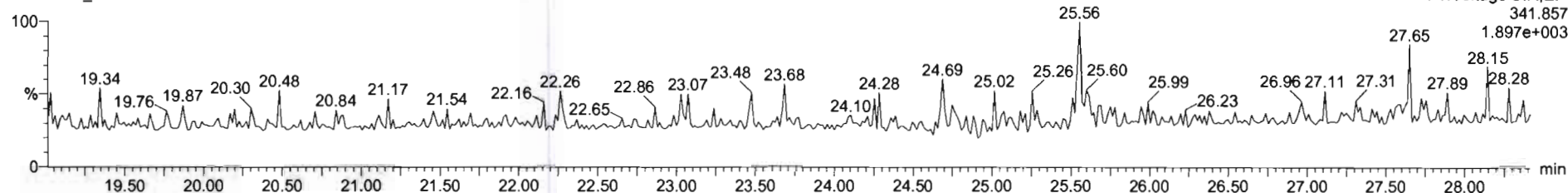
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1st Func. Penta-Furans

200603R2_9

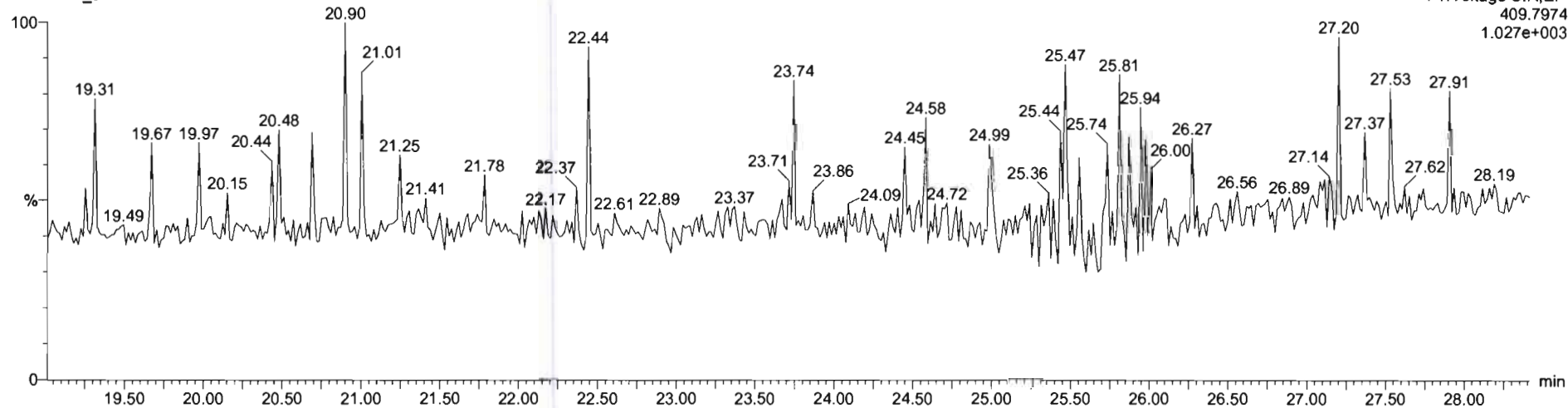


200603R2_9



DPE6

200603R2_9

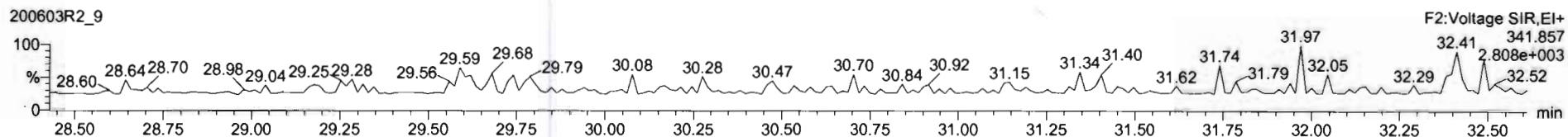
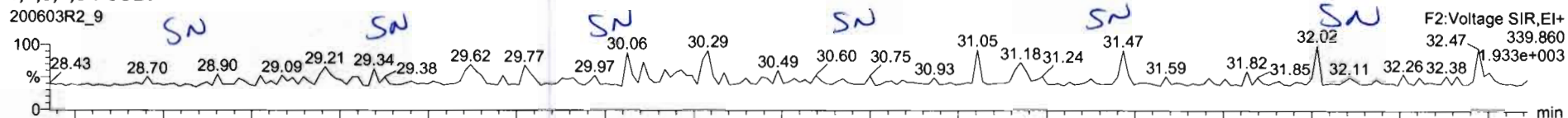


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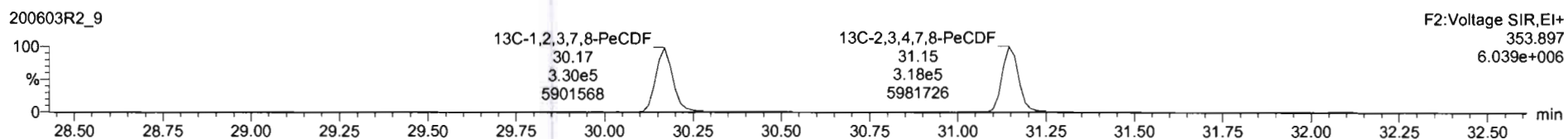
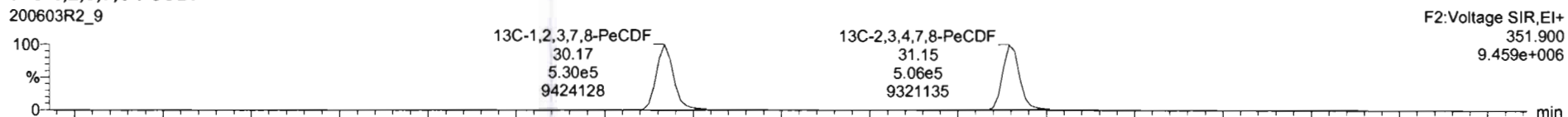
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Name: 200603R2_9, Date: 04-Jun-2020, Time: 02:02:36, ID: 2000965-16 PDI-163SC-A-06-07-200425 16.29, Description: PDI-163SC-A-06-07-200425

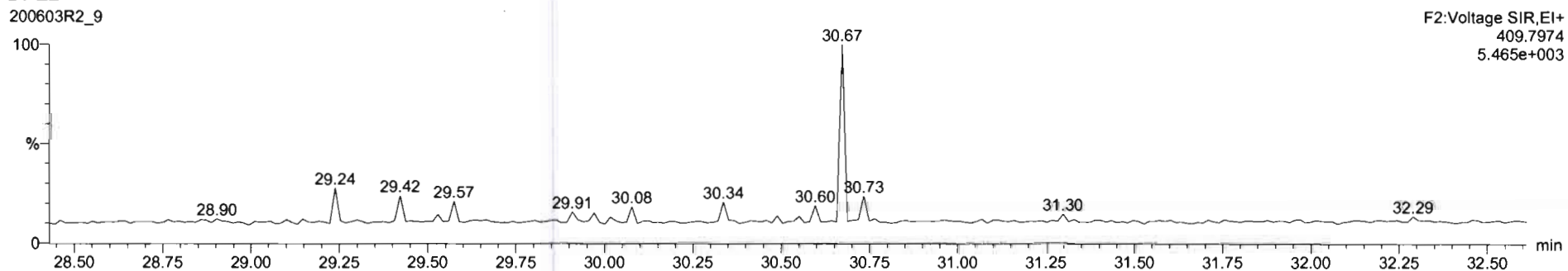
1,2,3,7,8-PeCDF



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



DPE2

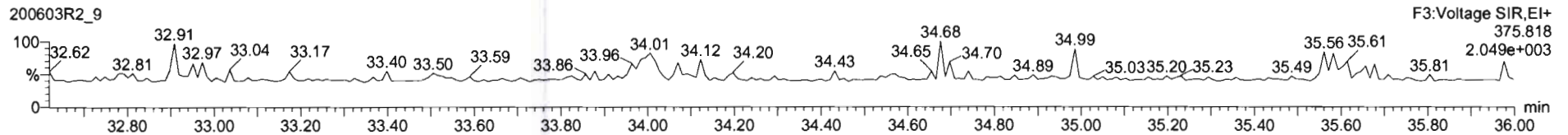
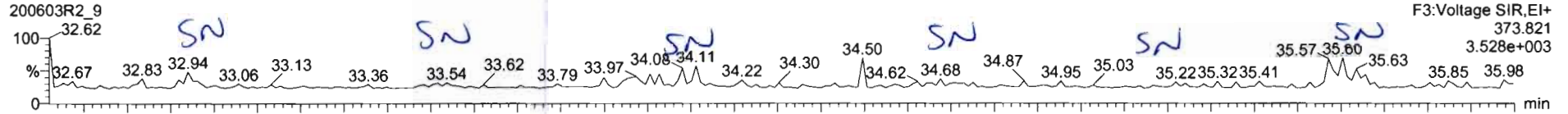


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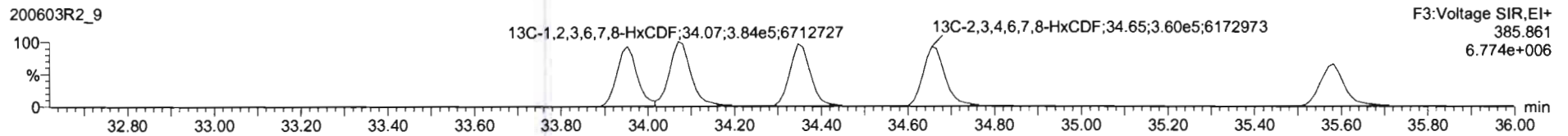
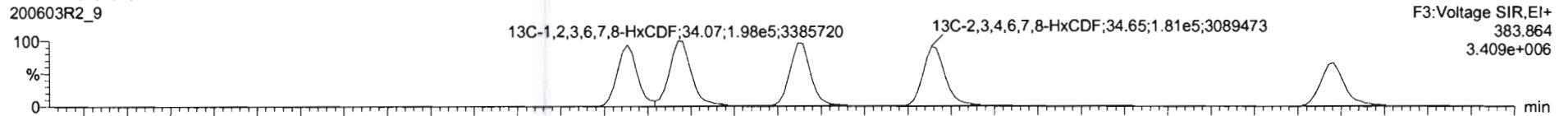
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Name: 200603R2_9, Date: 04-Jun-2020, Time: 02:02:36, ID: 2000965-16 PDI-163SC-A-06-07-200425 16.29, Description: PDI-163SC-A-06-07-200425

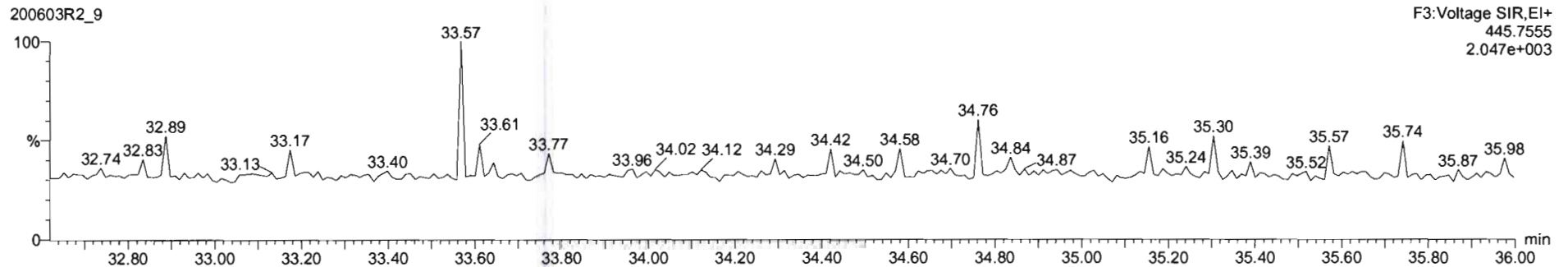
1,2,3,4,7,8-HxCDF



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



DPE3

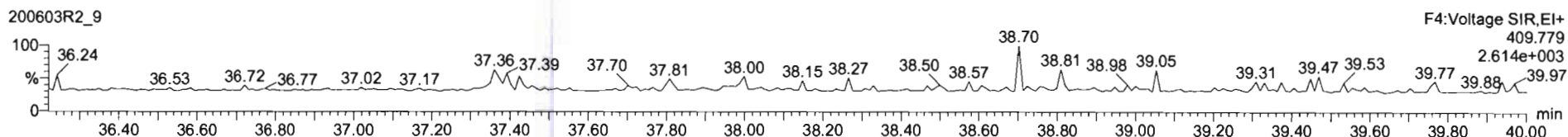
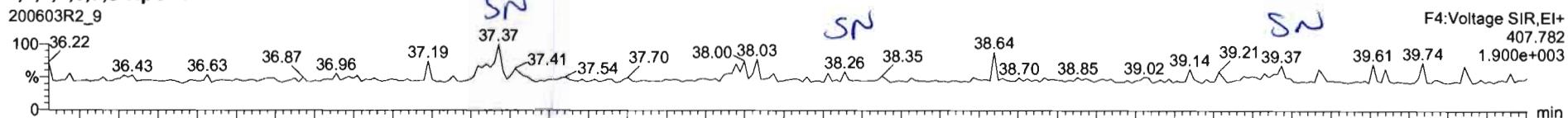


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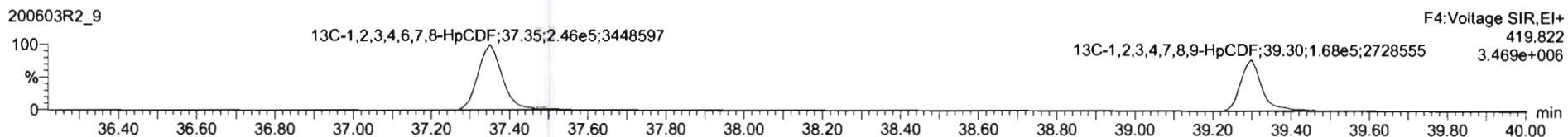
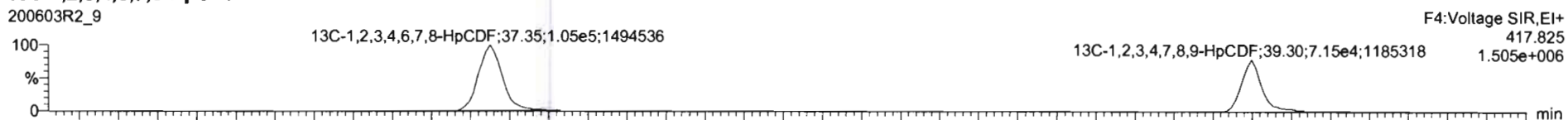
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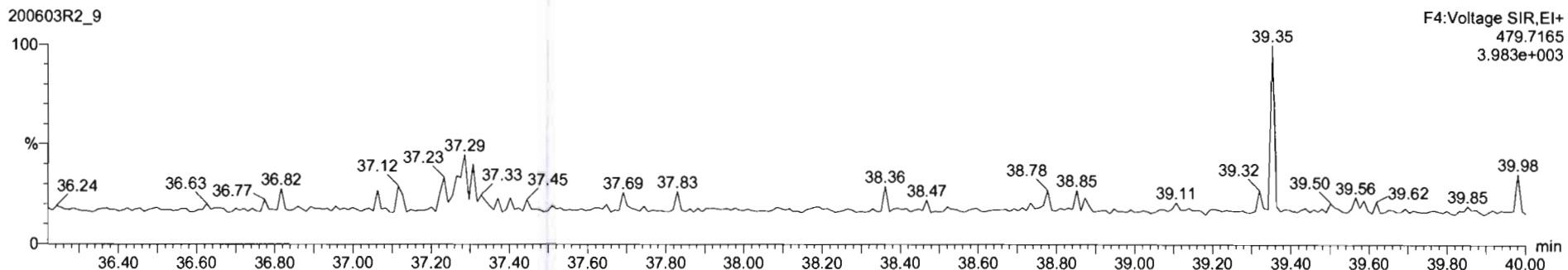
1,2,3,4,6,7,8-HpCDF



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



DPE4

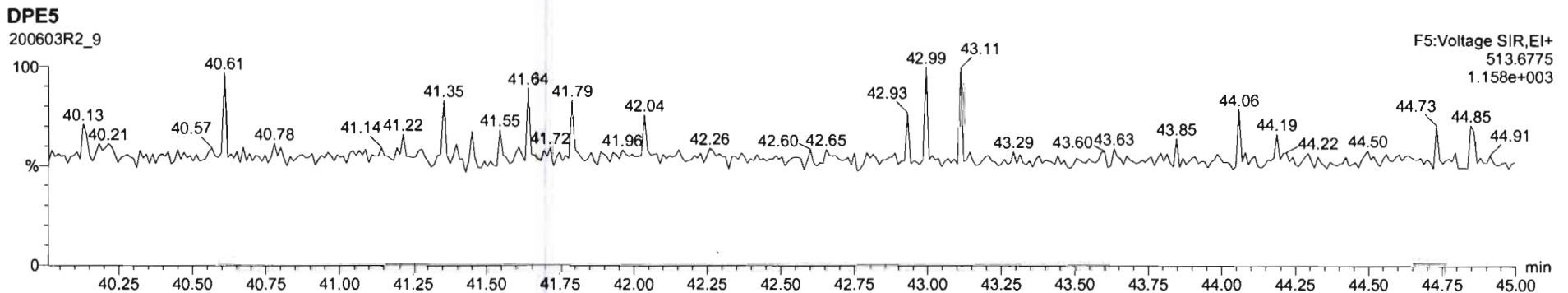
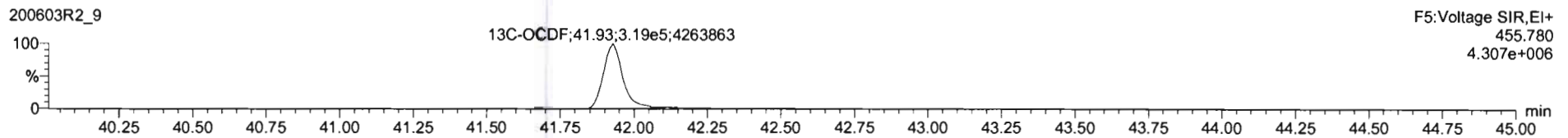
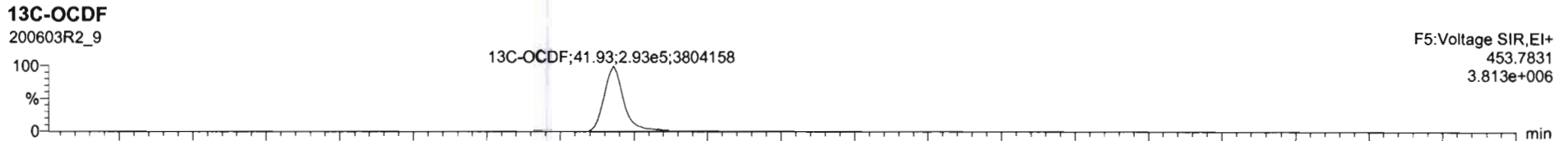
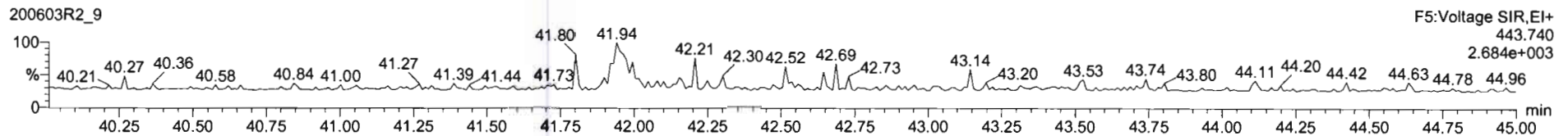
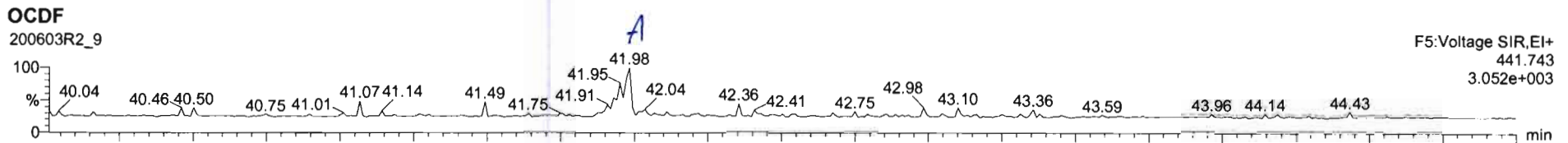


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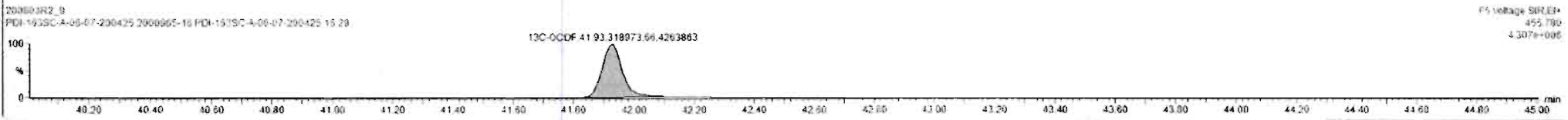
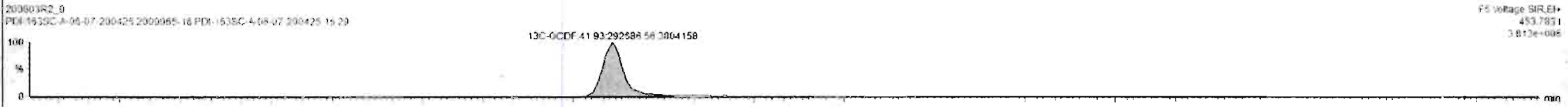
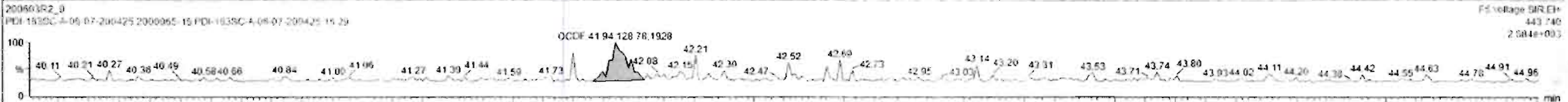
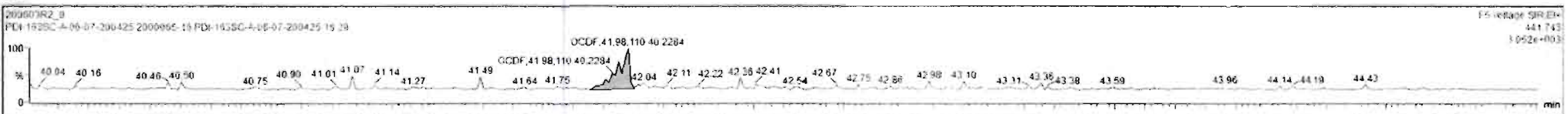
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Name: 200603R2_9, Date: 04-Jun-2020, Time: 02:02:36, ID: 2000965-16 PDI-163SC-A-06-07-200425 16.29, Description: PDI-163SC-A-06-07-200425



SI	Name	Resp	RA	rvy	RRF	wVol	RT	RPT	Conc	%Rec	OL	EMPC
17	OCDF	2.39e2	0.36	NO	0.0005	10.462	41.98	1.001	9.186		0.0840	0.106
18	13C-2,3,7,8-TCDD	7.98e5	0.81	NO	1.1563	10.402	26.48	1.025	190	98.7	0.215	

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



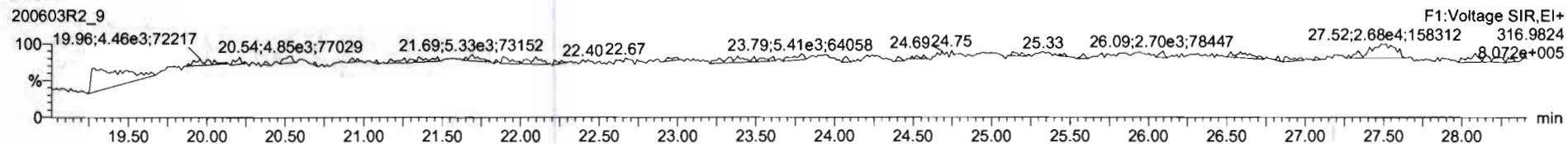
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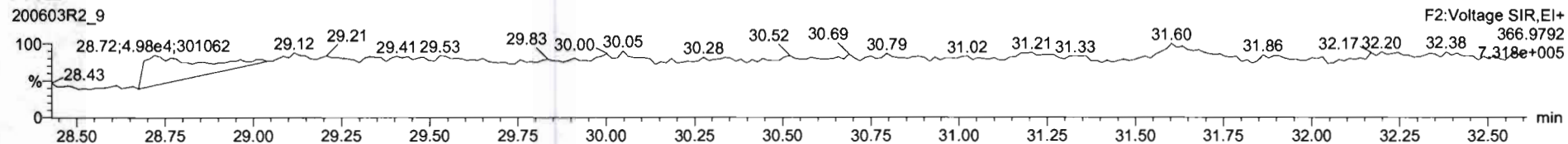
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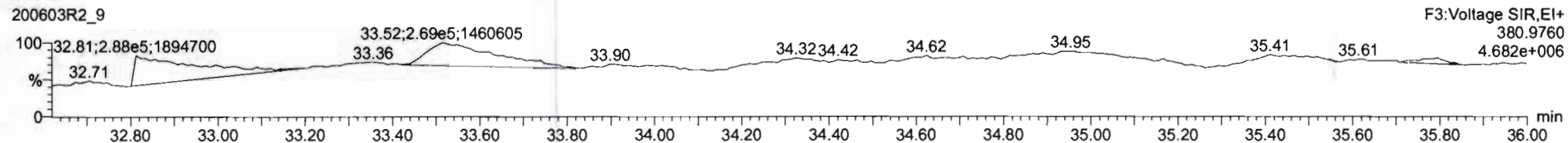
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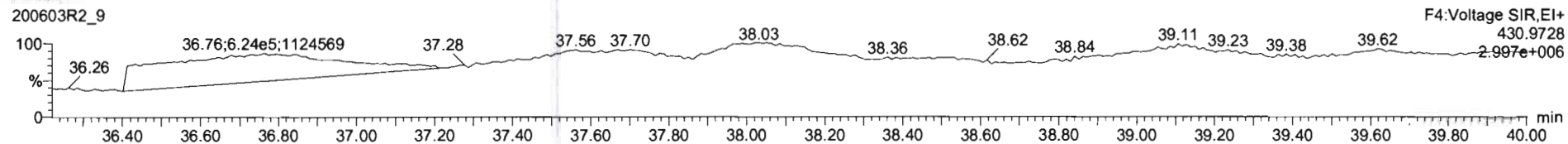
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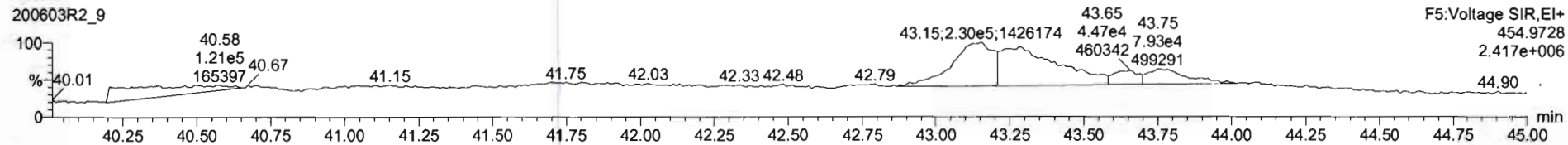
PFK3



PFK4



PFK5



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Printed: Thursday, June 04, 2020 08:42:39 Pacific Daylight Time

GRB 06/04/2020
C106/05/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_10, Date: 04-Jun-2020, Time: 02:48:50, ID: 2000965-17 PDI-163SC-A-07-08-200425 17.25, Description: PDI-163SC-A-07-08-200425

#	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	0.888	10.350	26.531		1.001				0.0469	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.350	31.488		1.001				0.0852	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.350	34.836		1.000				0.0890	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.350	34.932		1.000				0.0902	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.350	35.231		1.000				0.107	
6	6 1,2,3,4,6,7,8-HpCDD	1.58e3	1.07	NO	0.864	10.350	38.768	38.76	1.000	1.000	1.0968		0.110	1.10
7	7 OCDD	1.46e4	0.84	NO	0.914	10.350	41.748	41.78	1.000	1.001	11.099		0.212	11.1
8	8 2,3,7,8-TCDF			NO	0.751	10.350	25.627		1.001				0.0325	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.350	30.190		1.001				0.0408	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.350	31.192		1.001				0.0373	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.350	33.952		1.000				0.0336	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.350	34.090		1.000				0.0330	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.350	34.701		1.001				0.0343	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.350	35.582		1.000				0.0550	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.350	37.387		1.001				0.0842	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.350	39.310		1.000				0.0893	
17	17 OCDF			NO	0.806	10.350	41.940		1.000				0.0871	
18	18 13C-2,3,7,8-TCDD	8.88e5	0.79	NO	1.16	10.350	26.522	26.50	1.026	1.026	193.19	100	0.238	
19	19 13C-1,2,3,7,8-PeCDD	6.01e5	0.64	NO	0.849	10.350	31.711	31.47	1.227	1.218	178.01	92.1	0.304	
20	20 13C-1,2,3,4,7,8-HxCDD	4.19e5	1.28	NO	0.779	10.350	34.830	34.83	1.014	1.014	182.05	94.2	0.440	
21	21 13C-1,2,3,6,7,8-HxCDD	5.25e5	1.32	NO	1.02	10.350	34.944	34.93	1.017	1.017	174.72	90.4	0.337	
22	22 13C-1,2,3,7,8,9-HxCDD	4.75e5	1.35	NO	0.903	10.350	35.215	35.22	1.025	1.025	177.99	92.1	0.380	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.23e5	1.00	NO	0.689	10.350	38.739	38.76	1.128	1.128	158.75	82.2	0.611	
24	24 13C-OCDD	5.55e5	0.90	NO	0.652	10.350	41.761	41.75	1.216	1.216	288.35	74.6	0.413	
25	25 13C-2,3,7,8-TCDF	1.17e6	0.78	NO	1.06	10.350	25.564	25.60	0.989	0.991	189.09	97.9	0.317	
26	26 13C-1,2,3,7,8-PeCDF	9.22e5	1.62	NO	0.838	10.350	30.093	30.17	1.165	1.168	187.68	97.1	0.346	
27	27 13C-2,3,4,7,8-PeCDF	9.16e5	1.59	NO	0.817	10.350	31.047	31.16	1.202	1.206	191.49	99.1	0.355	
28	28 13C-1,2,3,4,7,8-HxCDF	5.40e5	0.51	NO	1.01	10.350	33.961	33.95	0.989	0.989	181.40	93.9	0.497	
29	29 13C-1,2,3,6,7,8-HxCDF	6.23e5	0.51	NO	1.17	10.350	34.085	34.08	0.992	0.992	180.81	93.6	0.429	
30	30 13C-2,3,4,6,7,8-HxCDF	5.67e5	0.51	NO	1.02	10.350	34.659	34.67	1.009	1.009	187.86	97.2	0.490	
31	31 13C-1,2,3,7,8,9-HxCDF	4.47e5	0.53	NO	0.860	10.350	35.558	35.58	1.035	1.036	176.26	91.2	0.583	

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-10.qld

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Printed: Thursday, June 04, 2020 08:42:39 Pacific Daylight Time

Name: 200603R2_10, Date: 04-Jun-2020, Time: 02:48:50, ID: 2000965-17 PDI-163SC-A-07-08-200425 17.25, Description: PDI-163SC-A-07-08-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.74e5	0.43	NO	0.774	10.350	37.307	37.35	1.086	1.087	163.54	84.6	0.431	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.61e5	0.41	NO	0.521	10.350	39.336	39.31	1.145	1.145	169.30	87.6	0.640	
34	34 13C-OCDF	6.45e5	0.88	NO	0.746	10.350	41.933	41.94	1.221	1.221	292.70	75.7	0.433	
35	35 37Cl-2,3,7,8-TCDD	3.02e5			1.04	10.350	26.553	26.51	1.028	1.026	73.286	94.8	0.0807	
36	36 13C-1,2,3,4-TCDD	7.69e5	0.79	NO	1.00	10.350	25.890	25.84	1.000	1.000	193.24	100	0.275	
37	37 13C-1,2,3,4-TCDF	1.13e6	0.78	NO	1.00	10.350	24.360	24.16	1.000	1.000	193.24	100	0.335	
38	38 13C-1,2,3,4,6,9-HxCDF	5.71e5	0.50	NO	1.00	10.350	34.420	34.35	1.000	1.000	193.24	100	0.501	
39	39 Total Tetra-Dioxins				0.888	10.350	24.620		0.000		0.75410		0.0469	0.841
40	40 Total Penta-Dioxins				0.908	10.350	29.960		0.000		0.00000		0.0387	0.291
41	41 Total Hexa-Dioxins				0.892	10.350	33.635		0.000		1.4327		0.0993	1.43
42	42 Total Hepta-Dioxins				0.864	10.350	37.640		0.000		3.2904		0.110	3.29
43	43 Total Tetra-Furans				0.751	10.350	23.610		0.000		0.14601		0.0325	0.146
44	44 1st Func. Penta-Furans				0.893	10.350	27.580		0.000				0.00822	
45	45 Total Penta-Furans				0.893	10.350	29.275		0.000				0.0167	
46	46 Total Hexa-Furans				0.934	10.350	33.555		0.000				0.0192	
47	47 Total Hepta-Furans				0.873	10.350	37.835		0.000				0.0297	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-10.qld

Last Altered: Thursday, June 04, 2020 08:41:12 Pacific Daylight Time

Printed: Thursday, June 04, 2020 08:42:39 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_10, Date: 04-Jun-2020, Time: 02:48:50, ID: 2000965-17 PDI-163SC-A-07-08-200425 17.25, Description: PDI-163SC-A-07-08-200425

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.52	2.588e3	3.806e3	1.843e2	1.998e2	0.92	YES	0.000e0	0.00000	0.086605	0.0469
2	Total Tetra-Dioxins	23.45	3.194e3	3.922e3	3.023e2	3.437e2	0.88	NO	6.460e2	0.15817	0.15817	0.0469
3	Total Tetra-Dioxins	24.34	1.376e4	1.772e4	1.070e3	1.364e3	0.78	NO	2.434e3	0.59593	0.59593	0.0469

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.22	1.319e3	4.074e3	8.474e1	2.445e2	0.35	YES	0.000e0	0.00000	0.077625	0.0852
2	Total Penta-Dioxins	29.73	7.524e3	6.870e3	2.924e2	3.704e2	0.79	YES	0.000e0	0.00000	0.21376	0.0852

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	2.243e4	2.241e4	1.187e3	9.855e2	1.20	NO	2.172e3	0.99525	0.99525	0.0993
2	Total Hexa-Dioxins	34.17	6.519e3	7.209e3	5.477e2	4.071e2	1.35	NO	9.548e2	0.43743	0.43743	0.0993

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.75	2.118e4	2.289e4	1.559e3	1.610e3	0.97	NO	3.169e3	2.1936	2.1936	0.110
2	1,2,3,4,6,7,8-HpCDD	38.76	1.217e4	1.203e4	8.187e2	7.657e2	1.07	NO	1.584e3	1.0968	1.0968	0.110

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.50	4.039e3	4.570e3	2.757e2	3.903e2	0.71	NO	6.659e2	0.14601	0.14601	0.0325

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-10.qld

Last Altered: Thursday, June 04, 2020 08:41:12 Pacific Daylight Time

Printed: Thursday, June 04, 2020 08:42:39 Pacific Daylight Time

Name: 200603R2_10, Date: 04-Jun-2020, Time: 02:48:50, ID: 2000965-17 PDI-163SC-A-07-08-200425 17.25, Description: PDI-163SC-A-07-08-200425

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												

Hepta-Furans

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

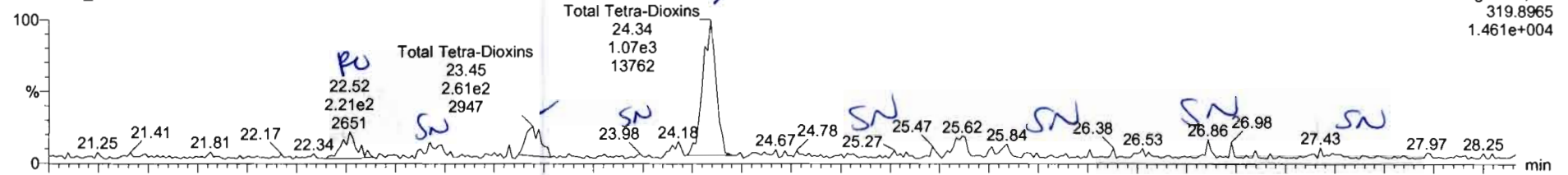
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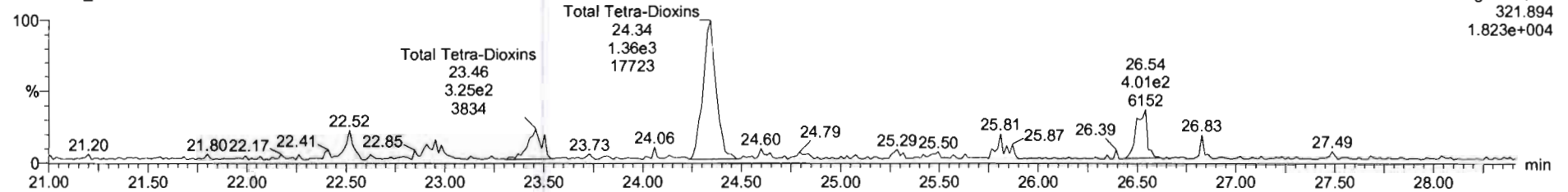
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2,3,7,8-TCDD

200603R2_10

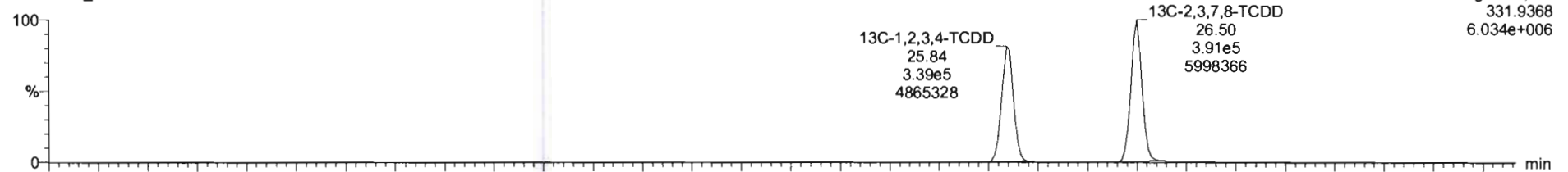


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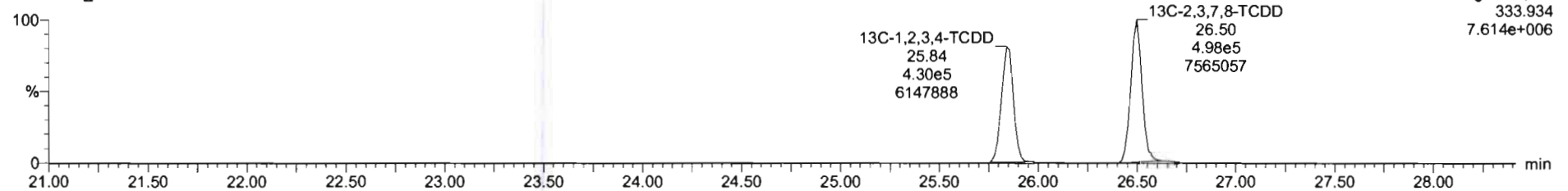


13C-2,3,7,8-TCDD

200603R2_10

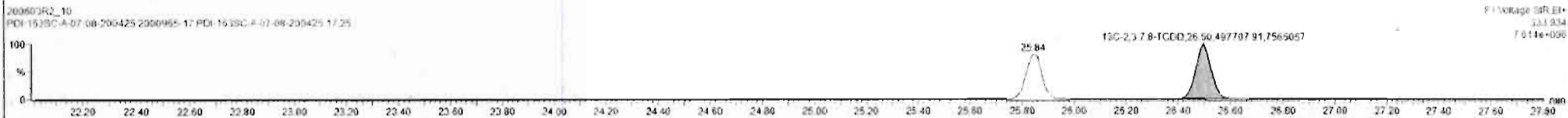
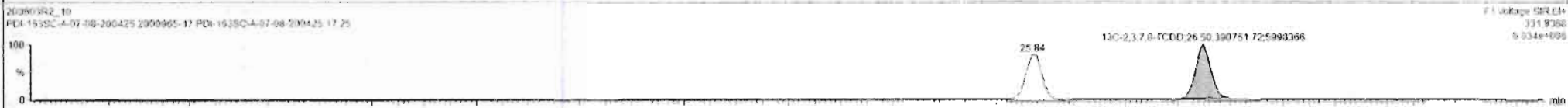
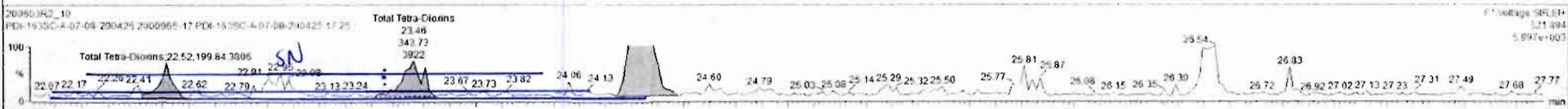
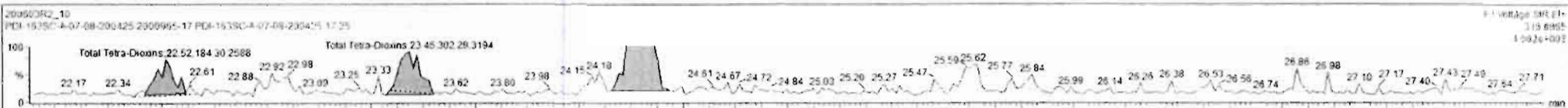


200603R2_10



Name	Resp	RA	n/y	RRT	volvol	RT	RRT	Conc	%Rec	DE	EMPC
39 Total Tetra-Dioxins				0.6083	19.350			0.754		0.0486	0.841
40 Total Penta-Dioxins				0.9081	19.350			0.000		0.0387	0.218

Name	RT	ml Resp	nl Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	22.52	1.842e2	1.596e2	0.92	YES	0.056005	0.00000
2 Total Tetra-Dioxins	23.41	3.022e2	3.437e2	0.88	NO	0.15017	0.15817
3 Total Tetra-Dioxins	24.34	1.070e3	1.354e3	0.78	NO	0.59592	0.59593



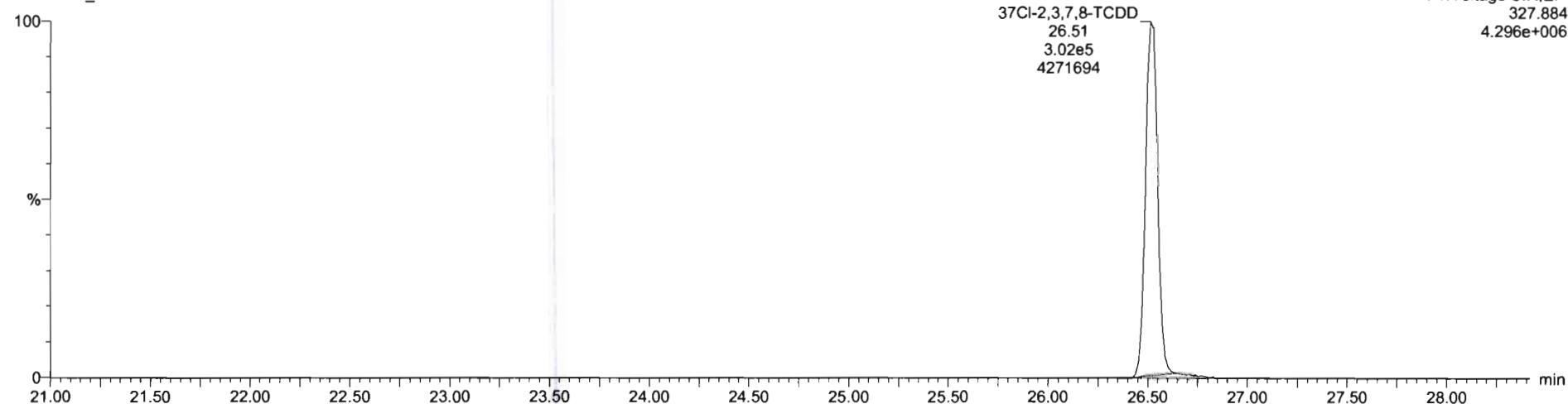
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Name: 200603R2_10, Date: 04-Jun-2020, Time: 02:48:50, ID: 2000965-17 PDI-163SC-A-07-08-200425 17.25, Description: PDI-163SC-A-07-08-200425

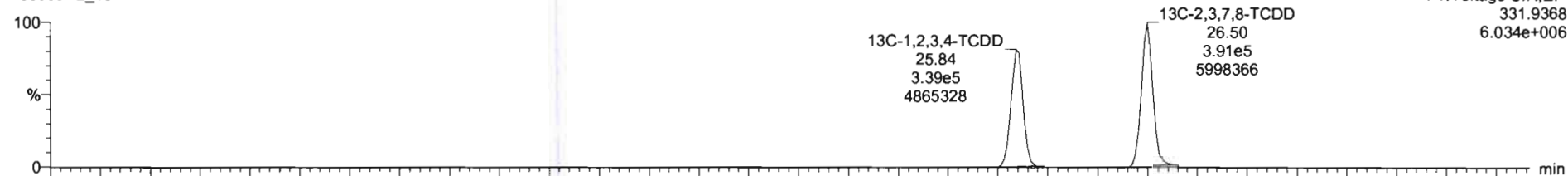
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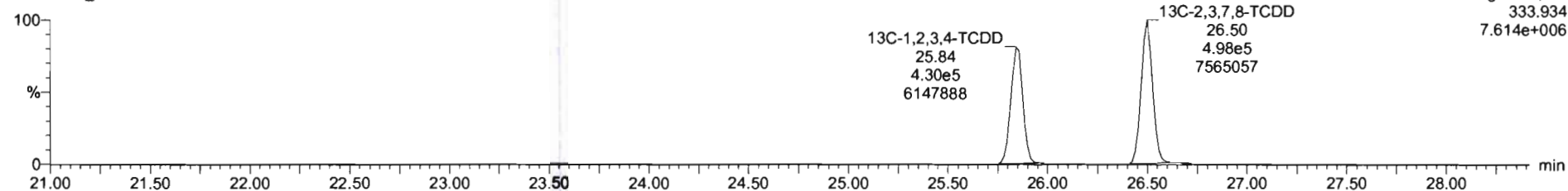


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200603R2_10



200603R2_10



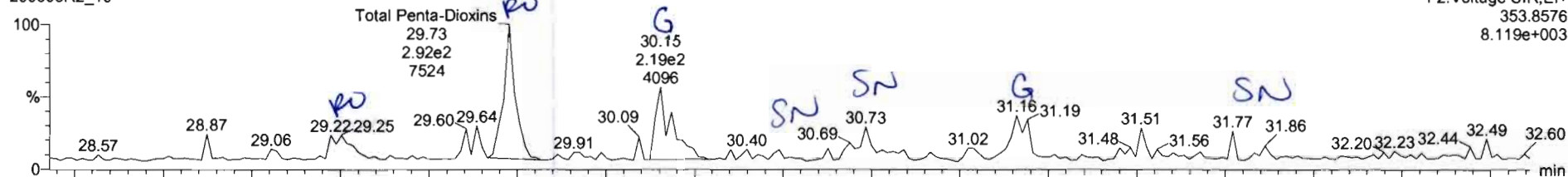
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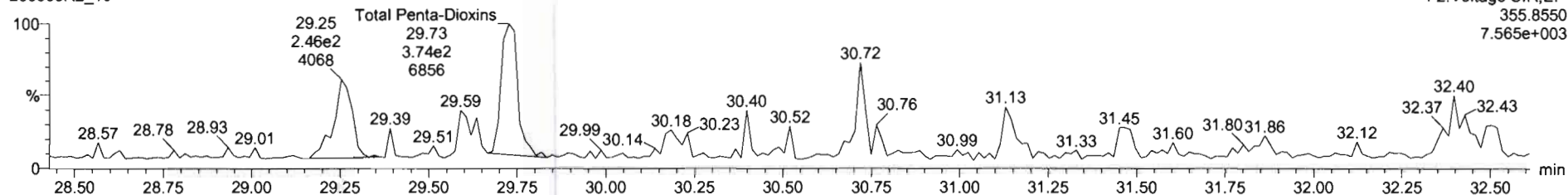
1,2,3,7,8-PeCDD

200603R2_10



F2:Voltage SIR,EI+
353.8576
8.119e+003

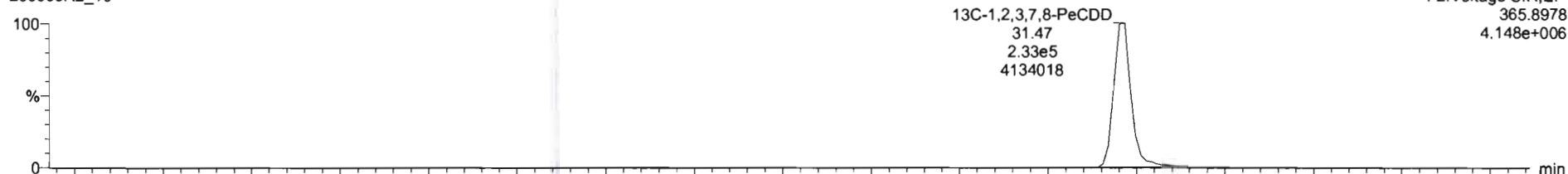
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F2:Voltage SIR,EI+
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7.565e+003

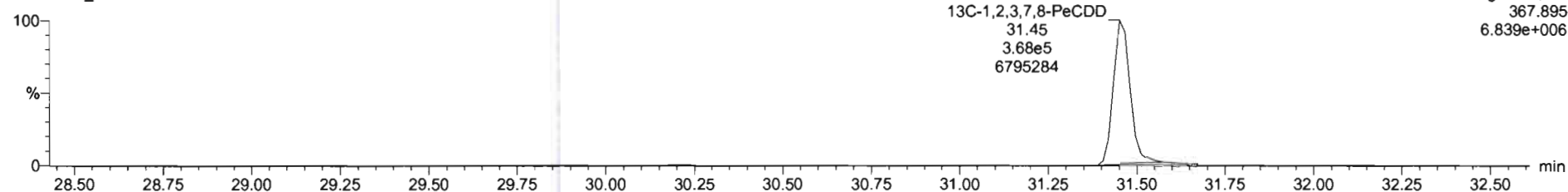
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200603R2_10



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31.47
2.33e5
4134018
F2:Voltage SIR,EI+
365.8978
4.148e+006

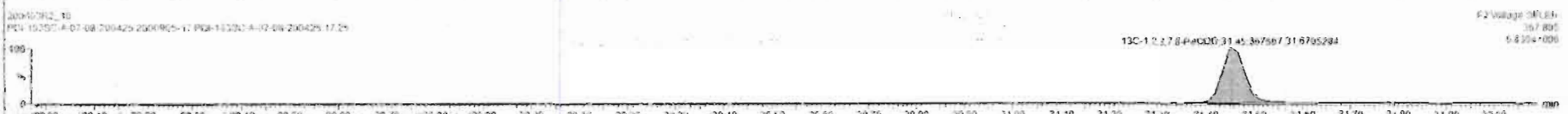
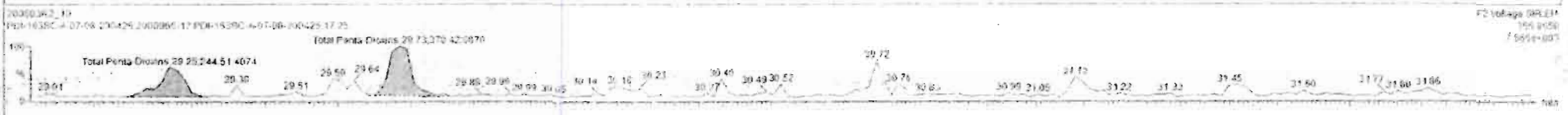
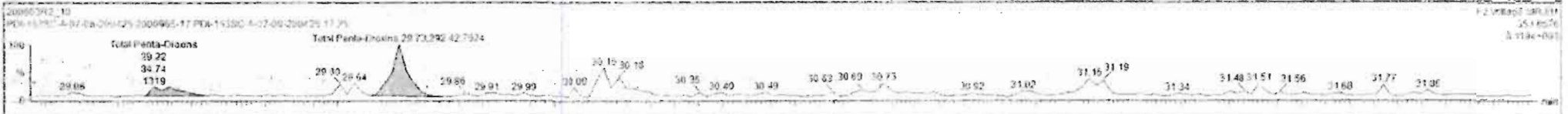
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13C-1,2,3,7,8-PeCDD
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3.68e5
6795284
F2:Voltage SIR,EI+
367.895
6.839e+006

RT	Name	Area	Height	Wt%	Conc	Wt%	Conc
29.22	Total Penta-Chloros	1319	34.74	0.0003	10.360	0.154	0.0450
29.73	Total Penta-Chloros	1704	47.71	0.0003	10.360	0.154	0.0450

RT	Name	Area	Height	Wt%	Conc	Wt%	Conc
29.22	Total Penta-Chloros	1319	34.74	0.0003	10.360	0.154	0.0450
29.73	Total Penta-Chloros	1704	47.71	0.0003	10.360	0.154	0.0450



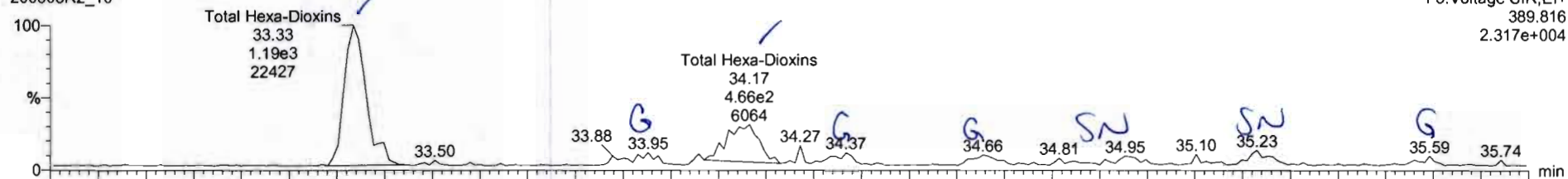
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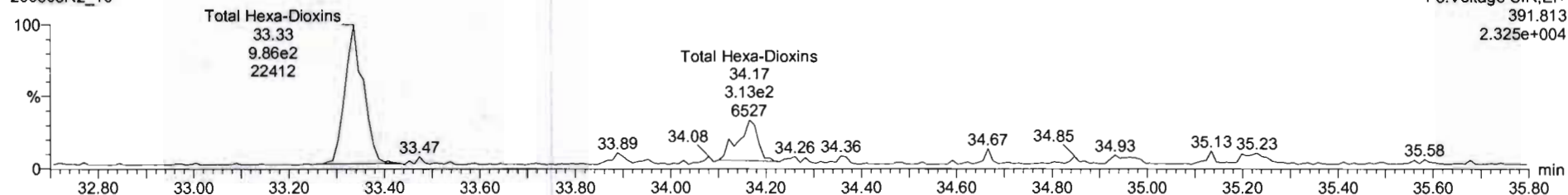
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1,2,3,4,7,8-HxCDD

200603R2_10

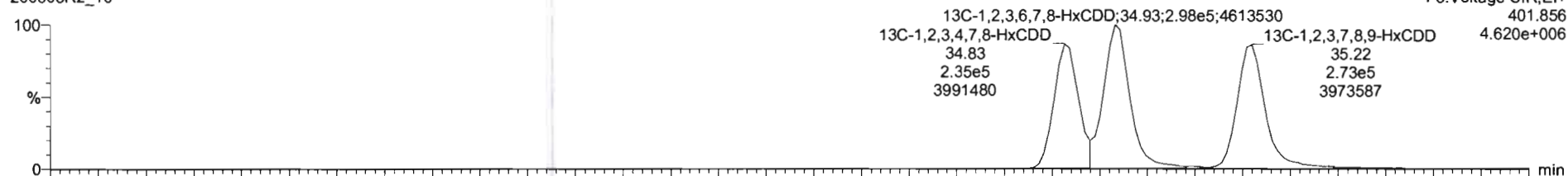


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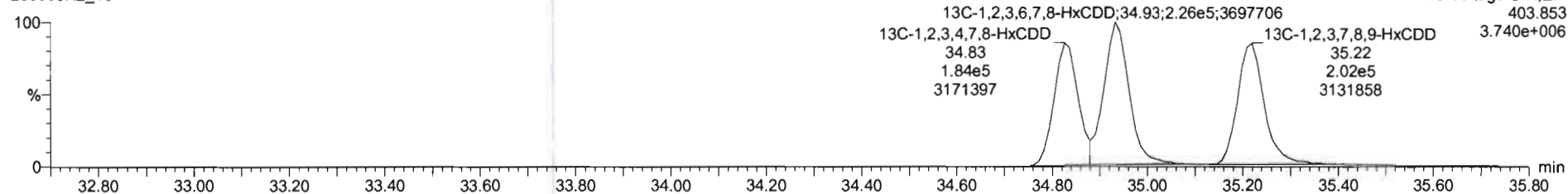


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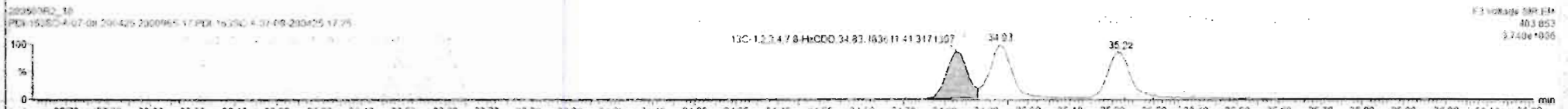


200603R2_10



SI	Name	Resp	RA	n/y	URF	wt/Vol	RT	NRT	Conc	%Rec	Dx	ELIPC
39	Total Tetra-Dioxins				0.0583	10.352			2.754		0.0489	0.841
40	Total Penta-Dioxins				0.0181	10.250			0.460		0.0207	0.211

SI	Name	RT	wt Resp	wt Resp	RA	n/y	ELIPC	Conc
1	Total Hexa-Dioxins	33.33	1.13763	0.95142	1.20	N/D	0.95523	0.06125
2	Total Hexa-Dioxins	34.17	1.47762	4.07162	1.25	N/D	0.43343	0.43745



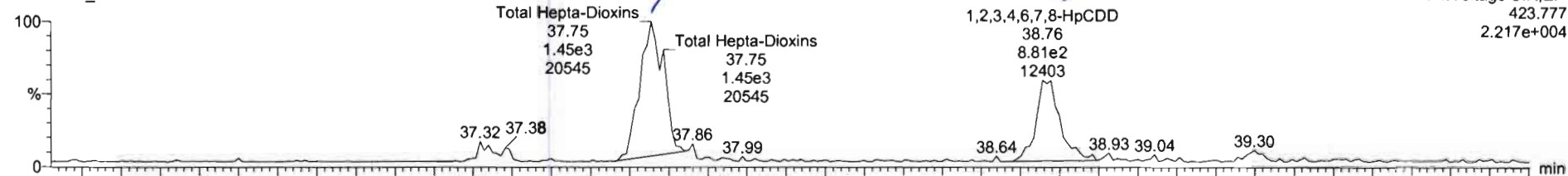
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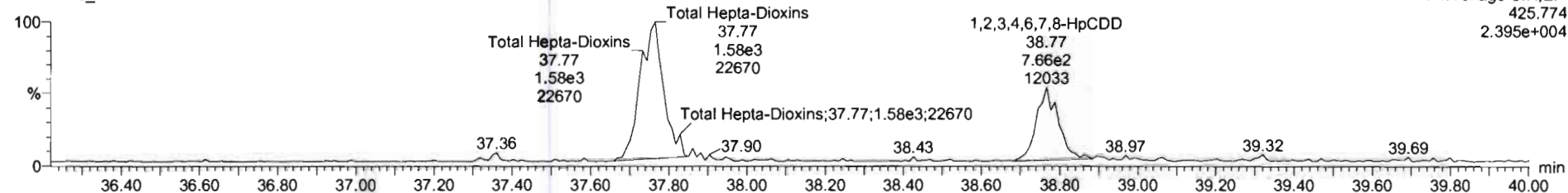
Name: 200603R2_10, Date: 04-Jun-2020, Time: 02:48:50, ID: 2000965-17 PDI-163SC-A-07-08-200425 17.25, Description: PDI-163SC-A-07-08-200425

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

200603R2_10

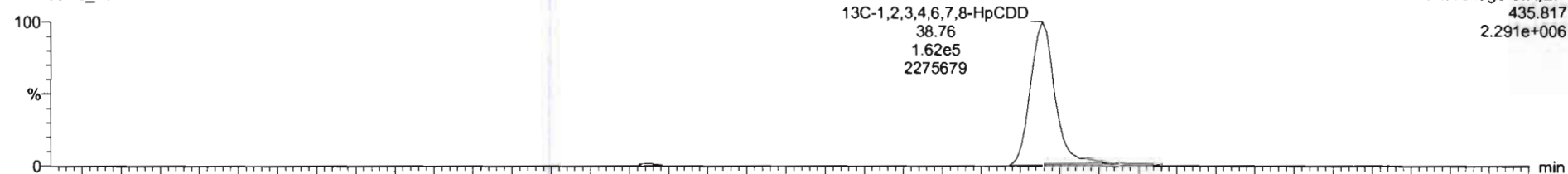


200603R2_10

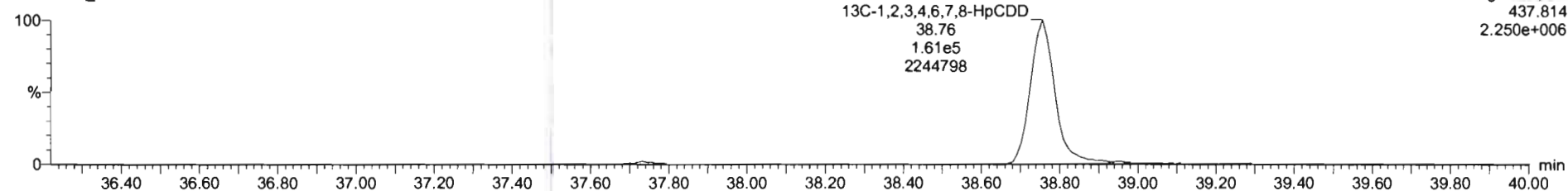


13C-1,2,3,4,6,7,8-HpCDD

200603R2_10

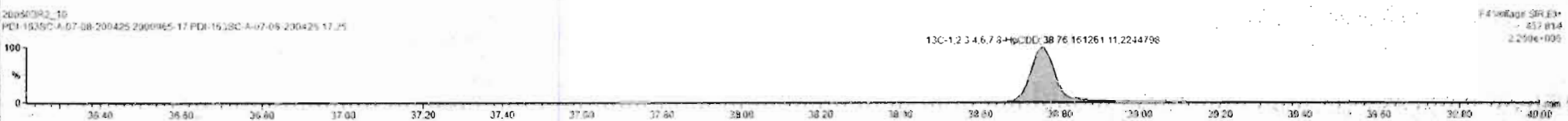
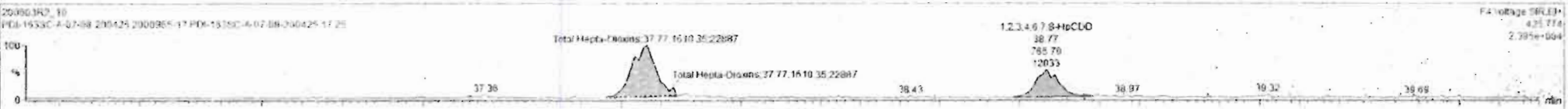
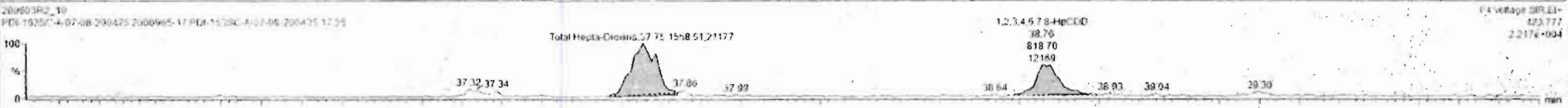


200603R2_10



Name	Resp	RA	Qty	RFP	WVnd	RT	RRT	Conc	MRic	Dt	Unit
42 Total Hepta-Chlorins				0.6639	16.300		3.29			0.110	3.28
43 Total Tetra-Furans				0.7519	12.350			0.000		0.0150	0.132

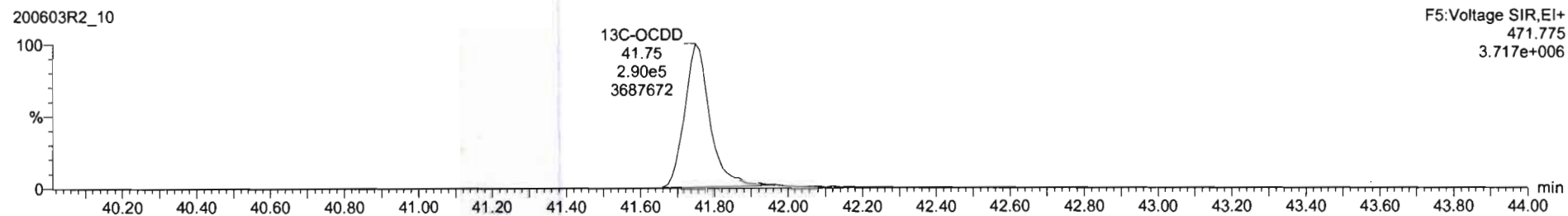
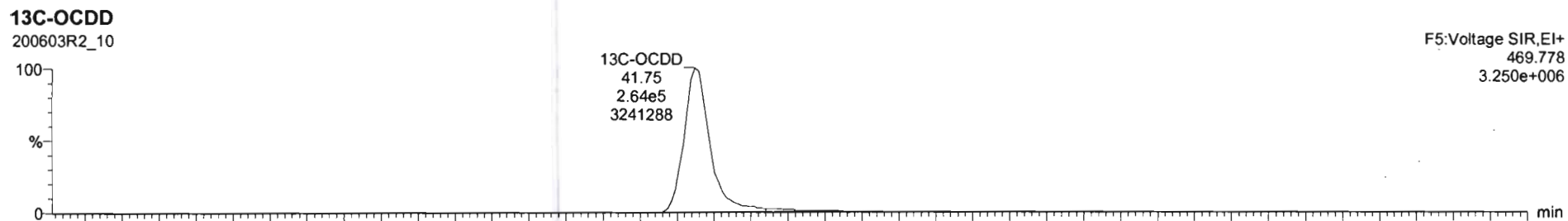
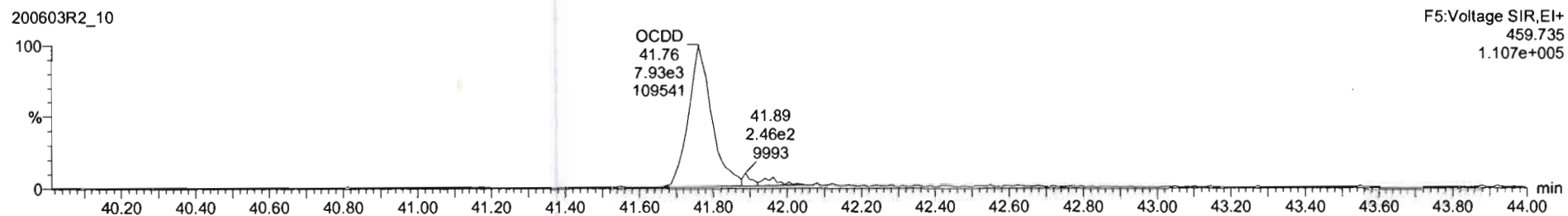
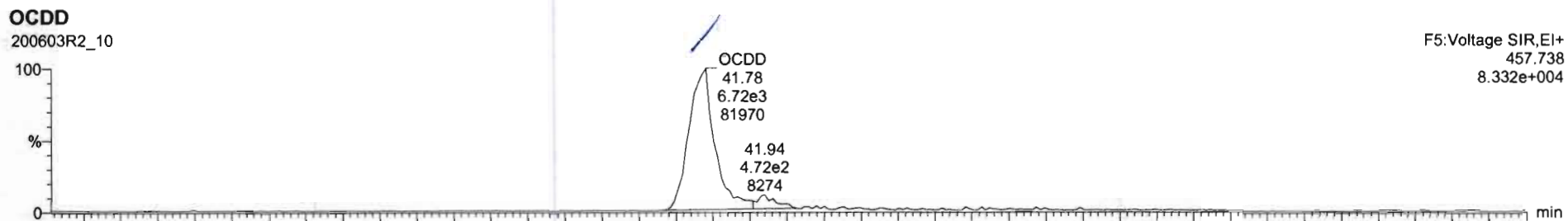
Name	RT	ret Resp	mc Resp	RA	Qty	EMPA	Conc
1 Total Hepta-Chlorins	37.75	1.559e3	1.610e3	0.97	ND	2.1935	2.1936
2 1,2,3,4,6,7,8-HpCDD	38.76	8.187e2	7.657e2	1.07	ND	1.0568	1.3608



Dataset: Untitled

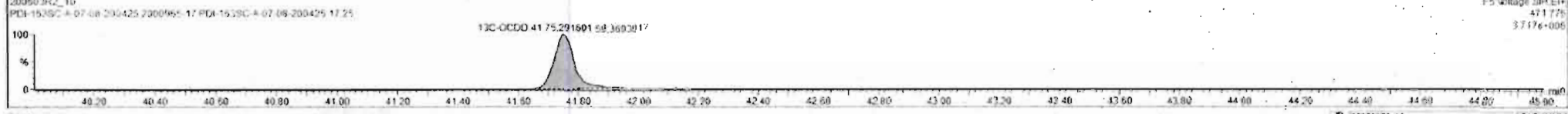
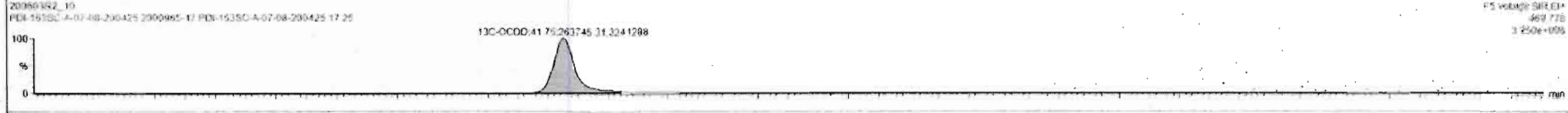
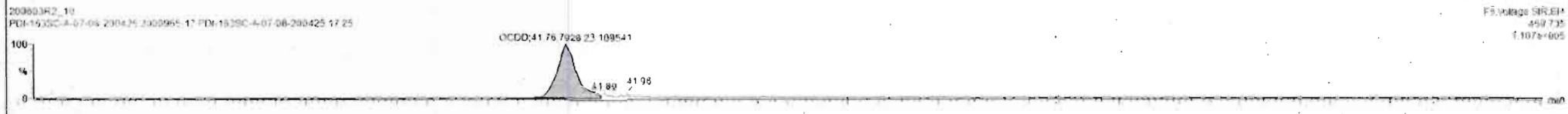
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Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

Name: 200603R2_10, Date: 04-Jun-2020, Time: 02:48:50, ID: 2000965-17 PDI-163SC-A-07-08-200425 17.25, Description: PDI-163SC-A-07-08-200425



SI	Name	Resp	RA	n/y	RRF	width	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	1.46e4	0.24	NO	0.91	10.350	41.78	1.001	11.1		0.212	11.1
8	2,3,7,8-TCDF			NO	0.75	10.350					0.0225	

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



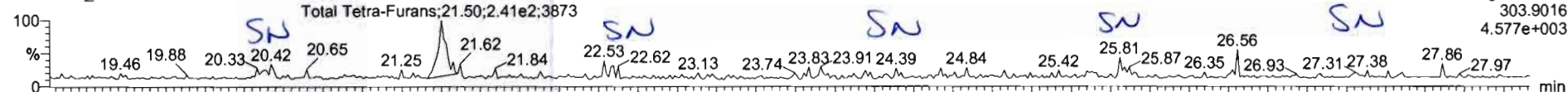
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Last Altered: Thursday, June 04, 2020 07:35:03 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

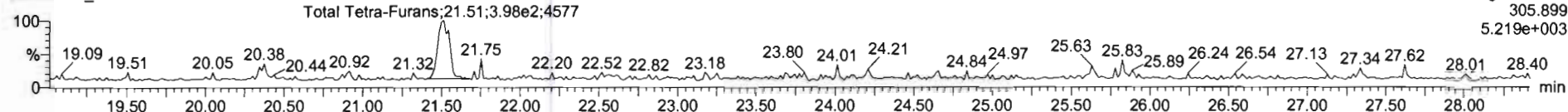
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2,3,7,8-TCDF

200603R2_10

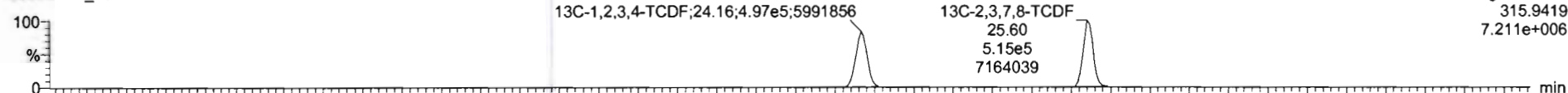


200603R2_10

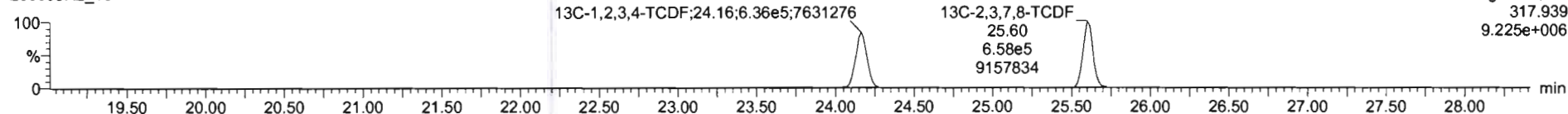


13C-2,3,7,8-TCDF

200603R2_10

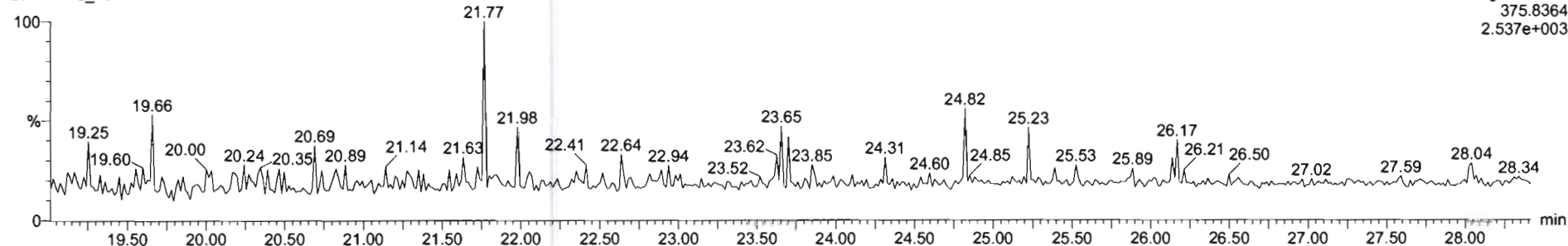


200603R2_10



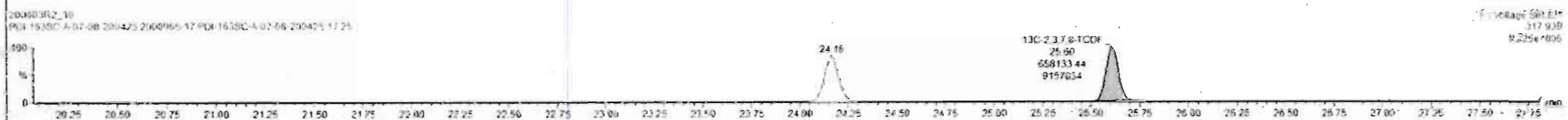
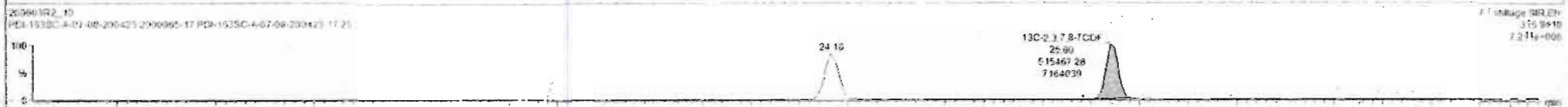
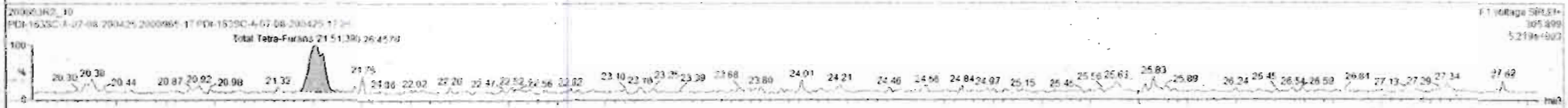
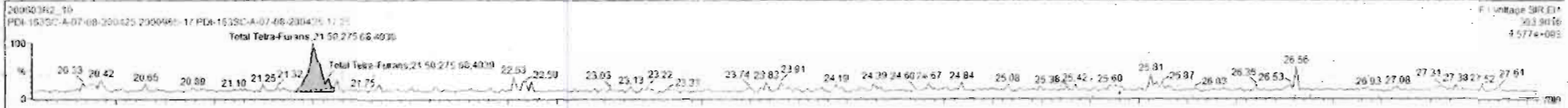
DPE1

200603R2_10



Name	Resp	RA	ny	RP	whol	RT	RRT	Conc	%Rec	LR	EMPC
Total Hepta-Dioxins				0.8535	10.250			3.20		0.110	2.75
Total Tetra-Furans				0.7510	11.350			0.146		0.070	0.148

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
Total Tetra-Furans	21.50	2.757e2	3.903e2	6.71	N2	0.14001	14601



Dataset: Untitled

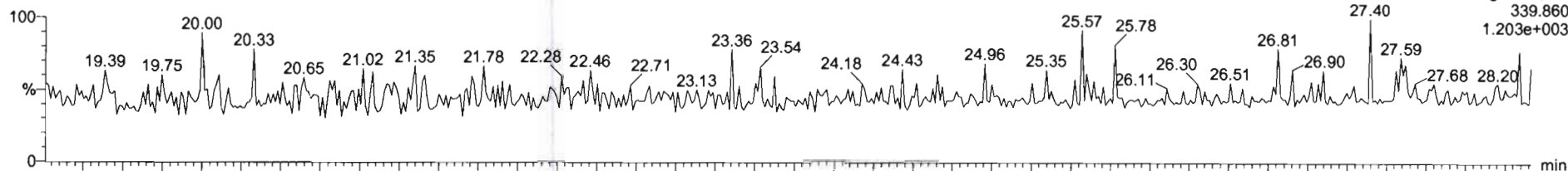
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Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

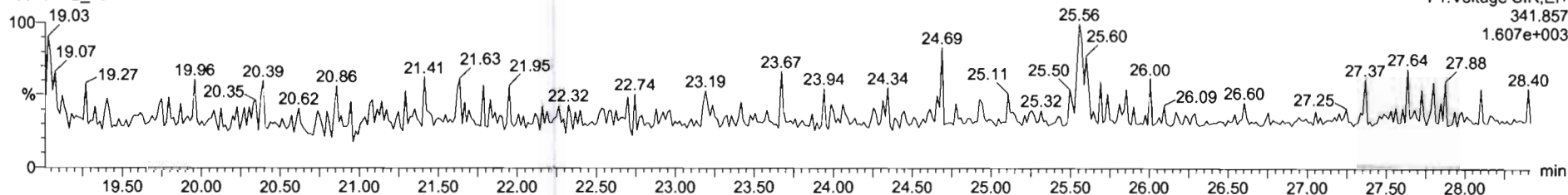
Name: 200603R2_10, Date: 04-Jun-2020, Time: 02:48:50, ID: 2000965-17 PDI-163SC-A-07-08-200425 17.25, Description: PDI-163SC-A-07-08-200425

1st Func. Penta-Furans

200603R2_10

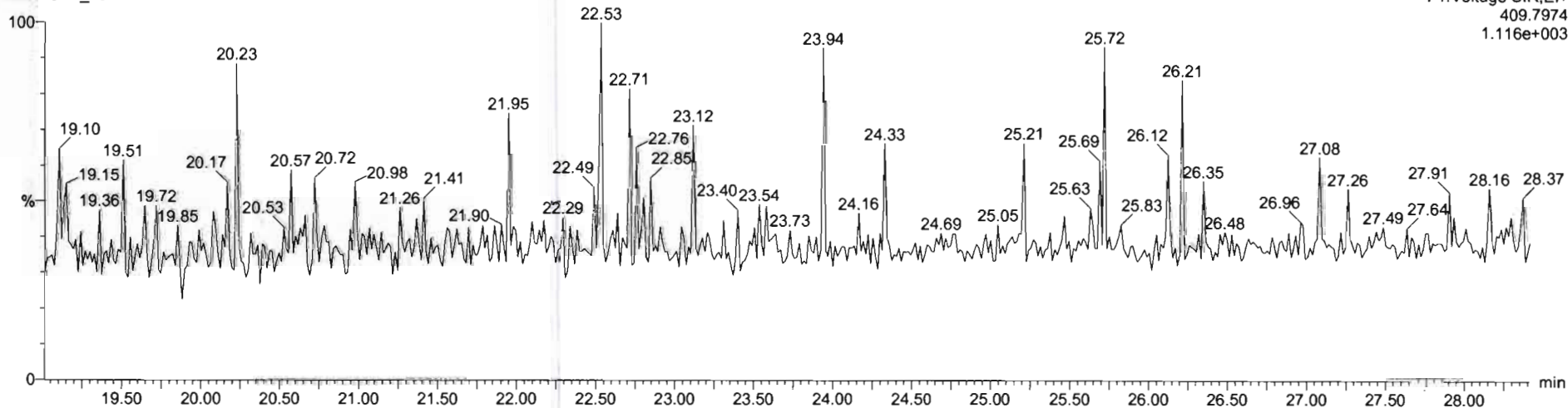


200603R2_10



DPE6

200603R2_10



Dataset: Untitled

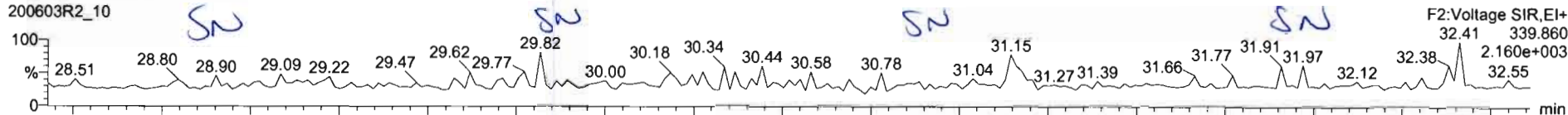
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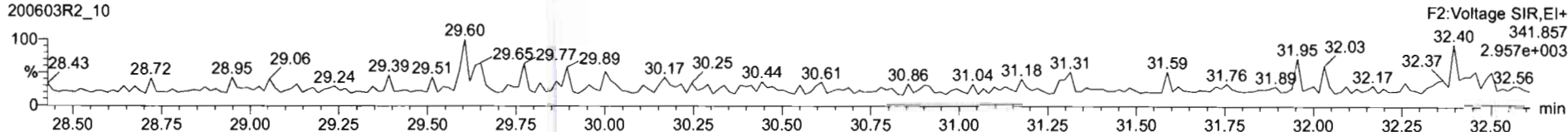
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1,2,3,7,8-PeCDF

200603R2_10

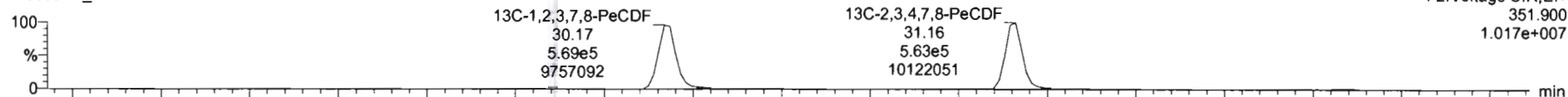


200603R2_10

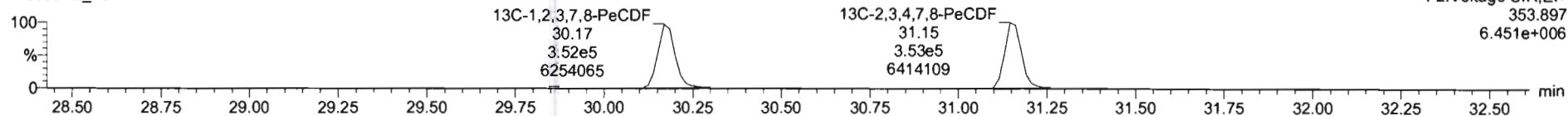


13C-1,2,3,7,8-PeCDF

200603R2_10

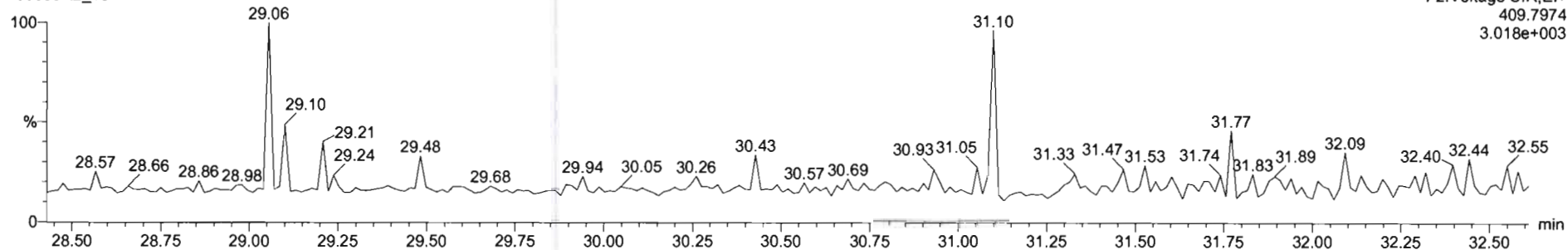


200603R2_10



DPE2

200603R2_10



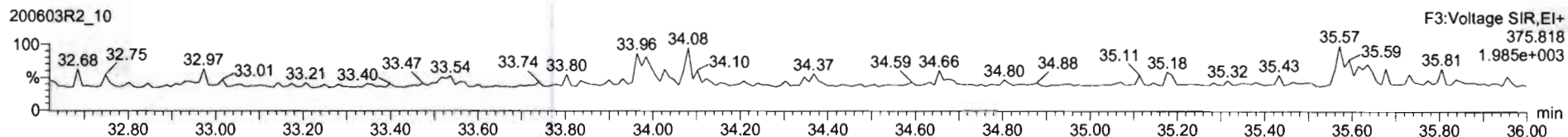
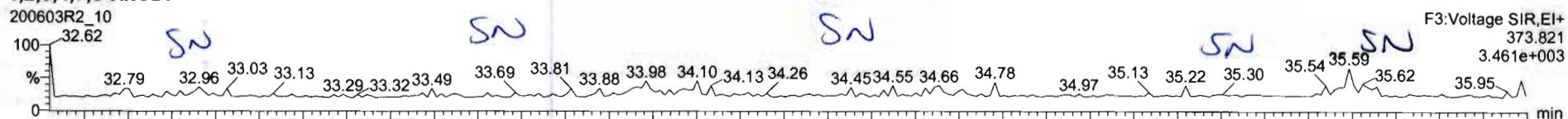
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Last Altered: Thursday, June 04, 2020 07:35:03 Pacific Daylight Time

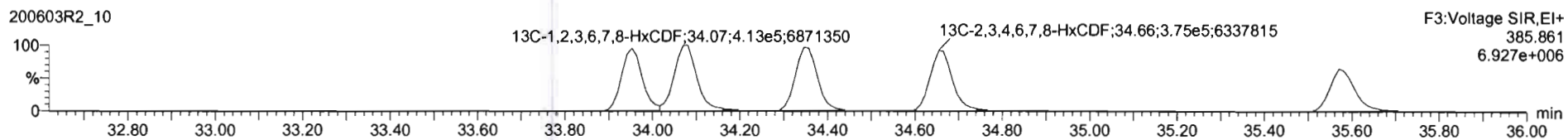
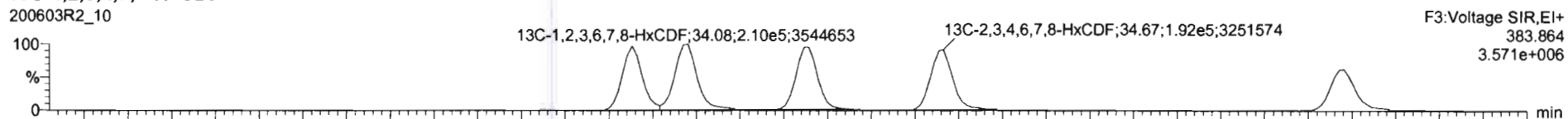
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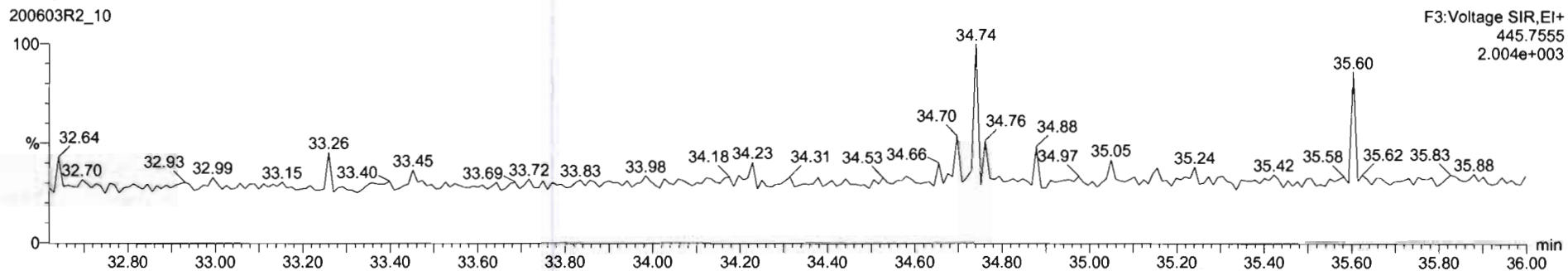
1,2,3,4,7,8-HxCDF



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



DPE3

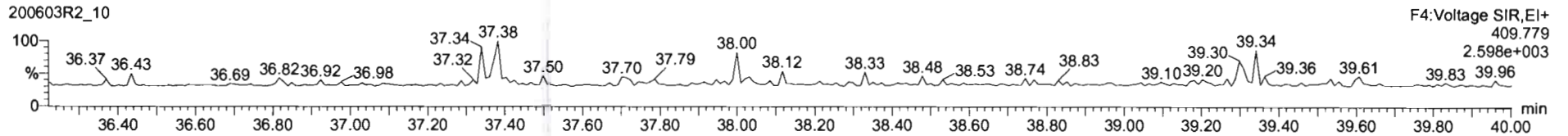
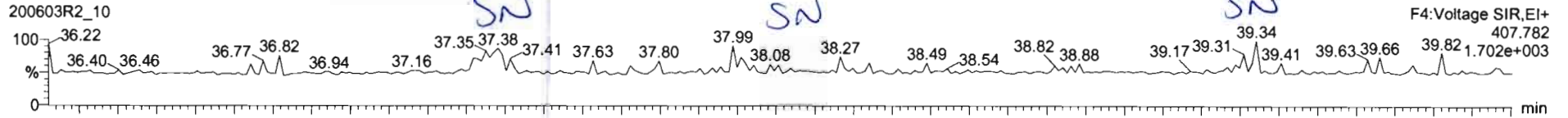


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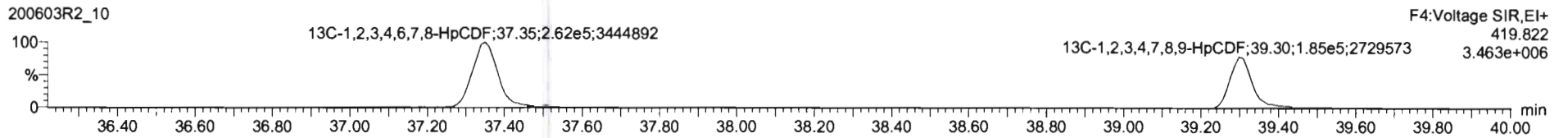
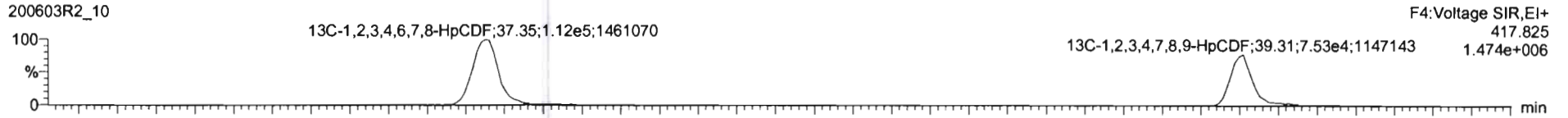
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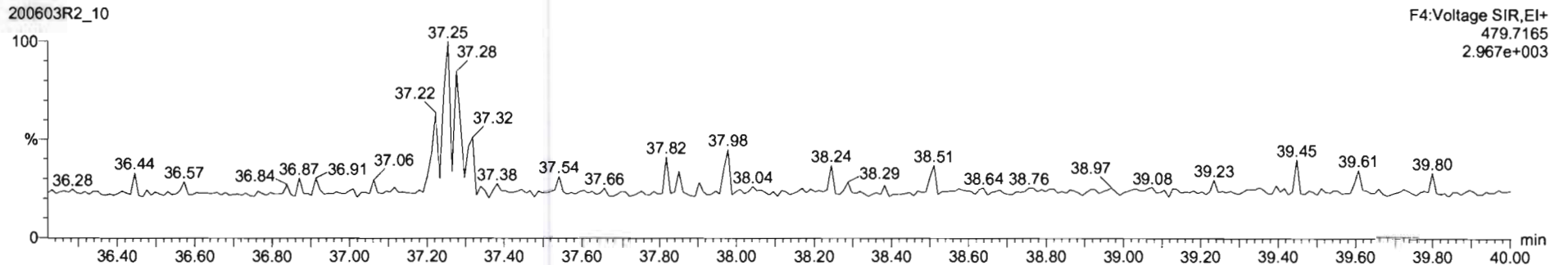
1,2,3,4,6,7,8-HpCDF



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



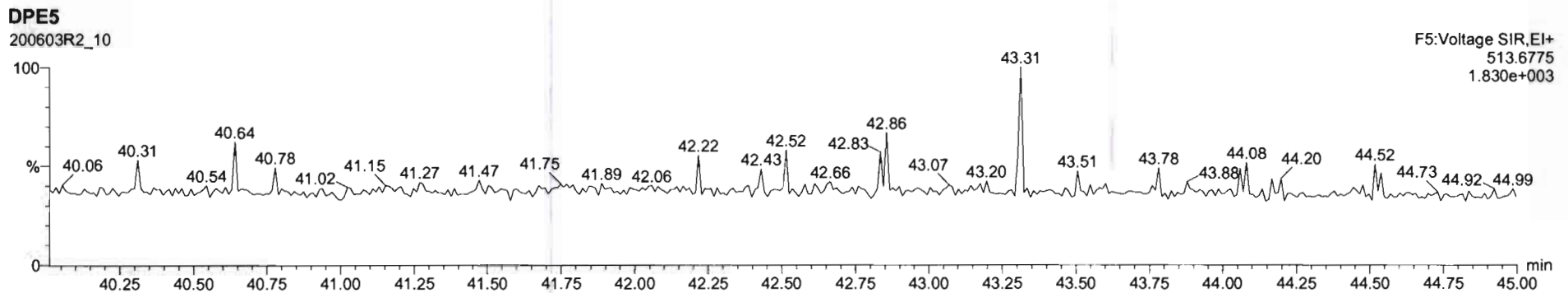
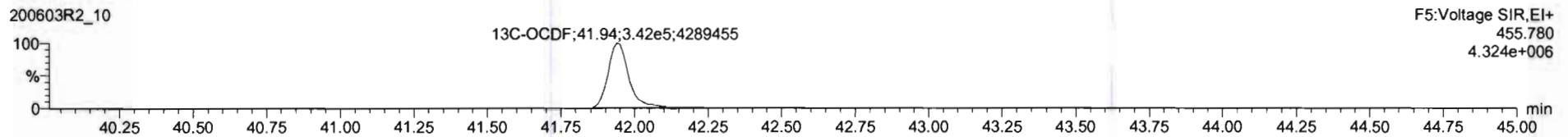
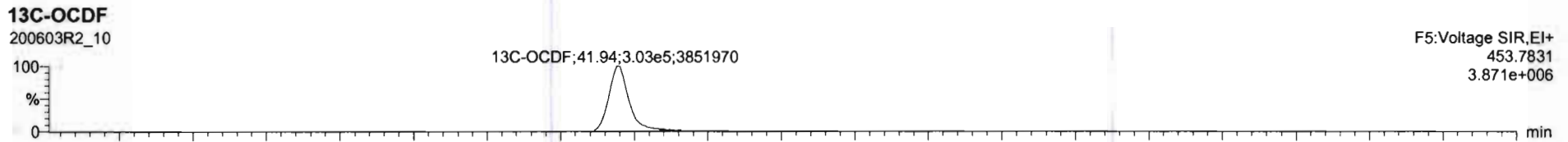
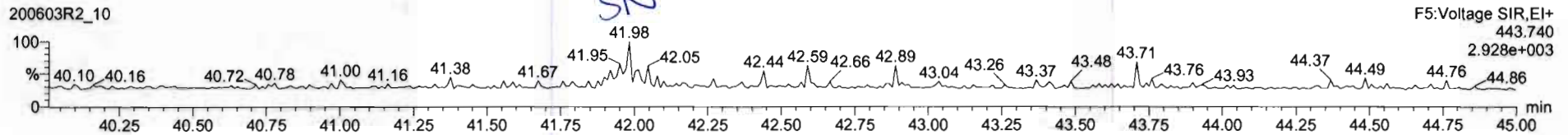
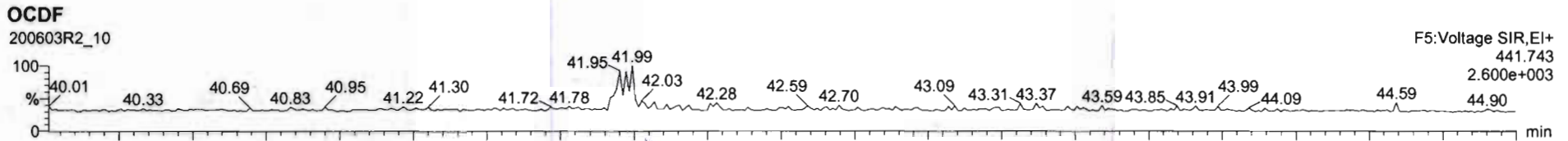
DPE4



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Printed: Thursday, June 04, 2020 07:36:45 Pacific Daylight Time

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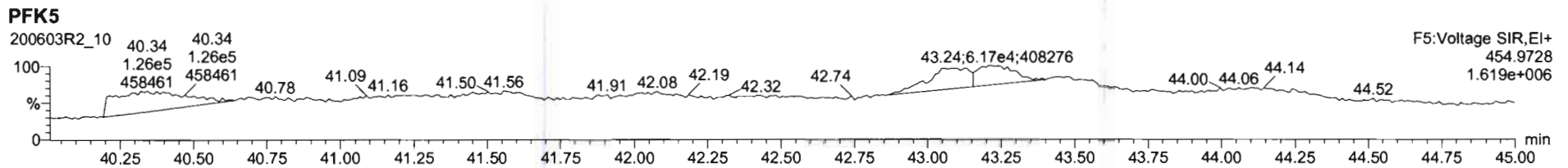
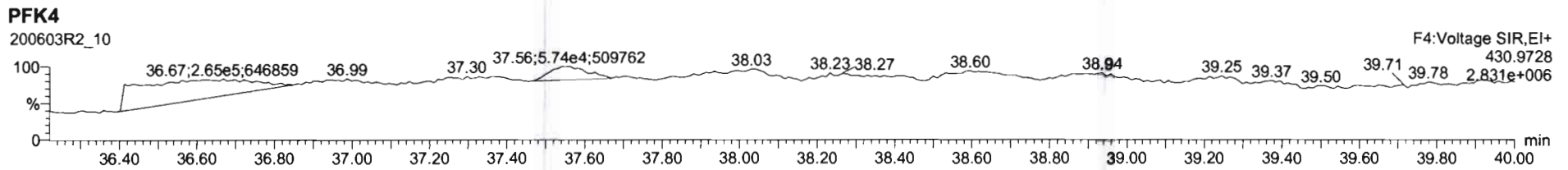
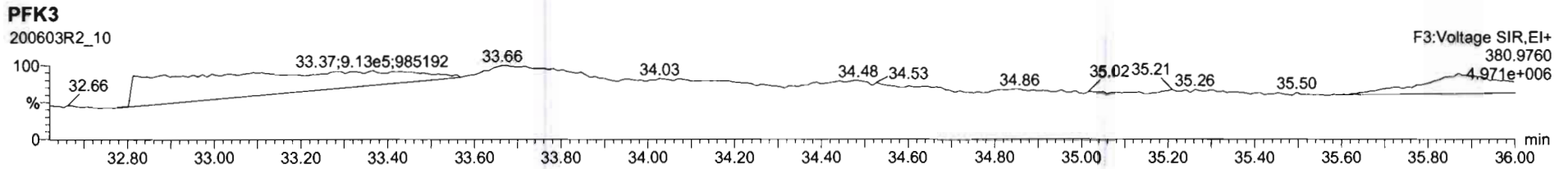
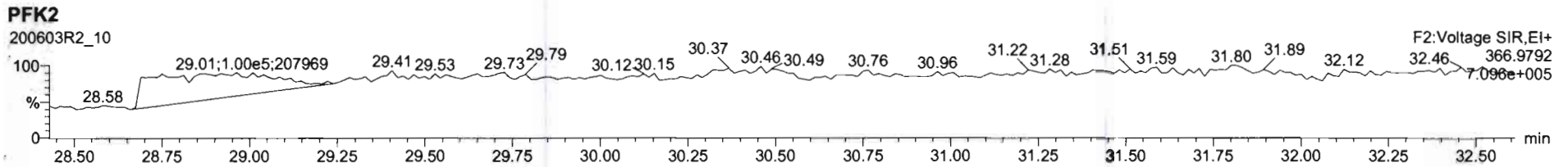
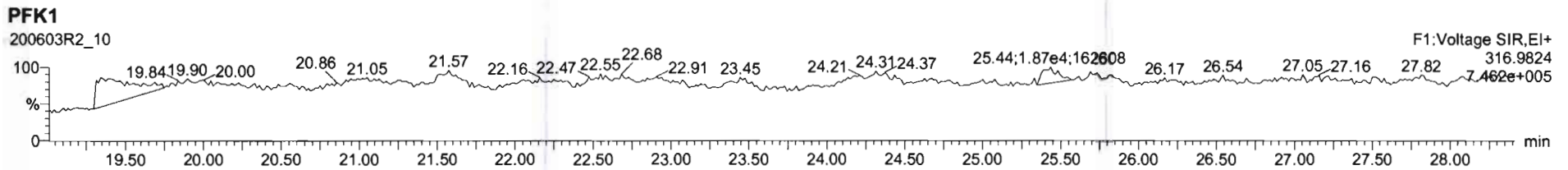


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Last Altered: Thursday, June 04, 2020 07:35:03 Pacific Daylight Time

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Name: 200603R2_10, Date: 04-Jun-2020, Time: 02:48:50, ID: 2000965-17 PDI-163SC-A-07-08-200425 17.25, Description: PDI-163SC-A-07-08-200425



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200609D1\200609D1_15.qld

Last Altered: Wednesday, June 10, 2020 09:17:53 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 10:33:36 Pacific Daylight Time

DB 6/10/20

C706/19/2020

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: 200609D1_15, Date: 09-Jun-2020, Time: 20:50:49, ID: 2000965-09RE1 PDI-1163SC-A-01-02-200425 19.05, Description: PDI-1163SC-A-01-02-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.41e4	0.77	NO	0.982	10.326	17.678	17.69	1.000	1.002	156.37		3.16	156
2	2 13C-2,3,7,8-TCDF	1.78e4	0.76	NO	1.08	10.326	17.724	17.66	1.133	1.135	191.32	98.8	8.12	
3	3 13C-1,2,3,4-TCDF	1.67e4	0.77	NO	1.00	10.326	15.660	15.56	1.000	1.000	193.68	100	8.79	

Dataset: U:\VG7.PRO\Results\200609D1\200609D1_15.qld

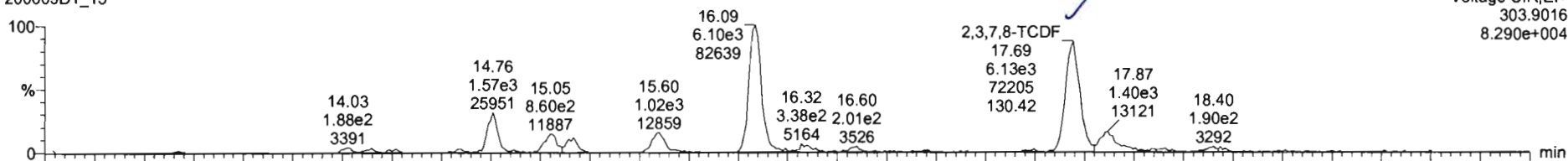
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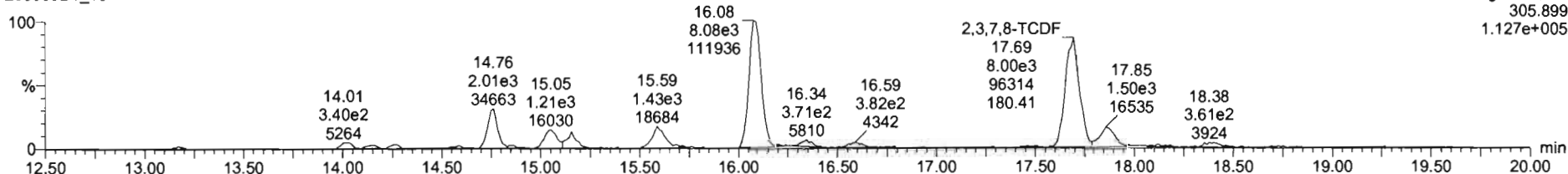
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2,3,7,8-TCDF

200609D1_15



200609D1_15

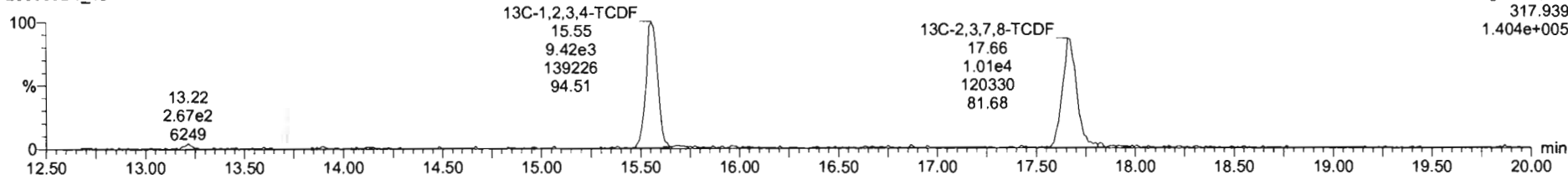


13C-2,3,7,8-TCDF

200609D1_15



200609D1_15



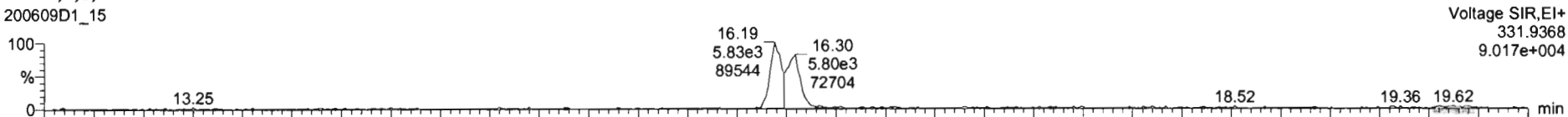
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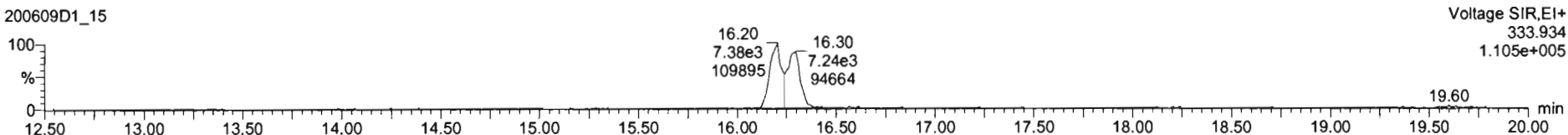
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13C-1,2,3,4-TCDD

200609D1_15

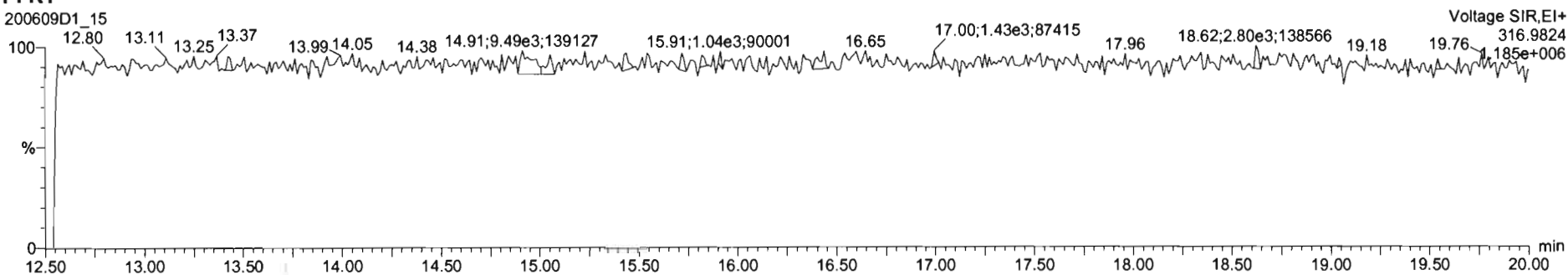


200609D1_15



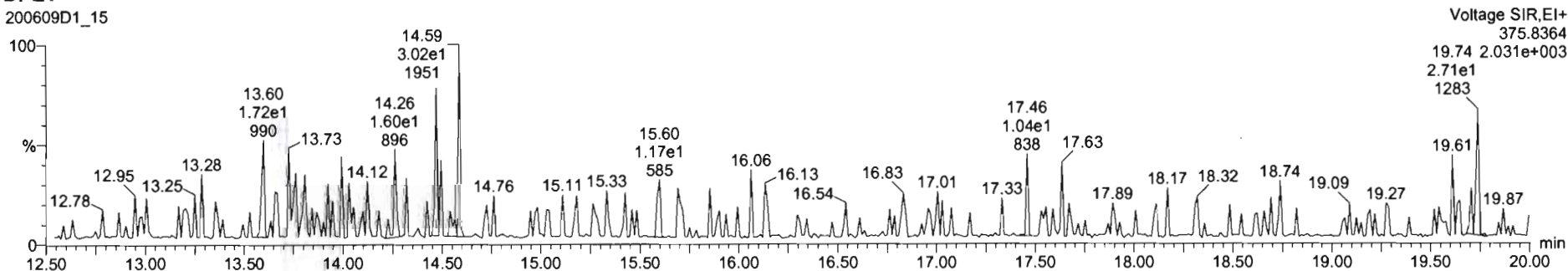
PFK1

200609D1_15



DPE1

200609D1_15



Dataset: U:\VG7.PRO\Results\200609D1\200609D1_10.qld

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Printed: Wednesday, June 10, 2020 09:52:59 Pacific Daylight Time

DB 6/10/20 C706/19/2020

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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200609D1_10, Date: 09-Jun-2020, Time: 18:12:23, ID: 2000965-10RE1 PDI-163SC-A-00-01-200425 20.29, Description: PDI-163SC-A-00-01-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	2.38e3	0.79	NO	0.982	10.050	17.689	17.68	1.000	1.001	33.486		2.53	33.5
2	2 13C-2,3,7,8-TCDF	1.44e4	0.75	NO	1.08	10.050	17.724	17.67	1.133	1.135	194.36	97.7	10.2	
3	3 13C-1,2,3,4-TCDF	1.36e4	0.69	NO	1.00	10.050	15.660	15.56	1.000	1.000	199.01	100	11.0	

Dataset: U:\VG7.PRO\Results\200609D1\200609D1_10.qld

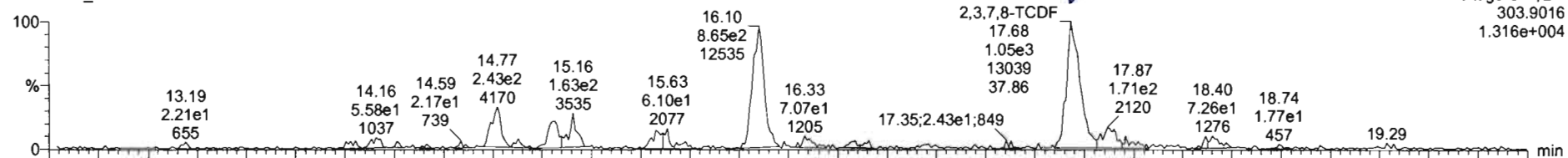
Last Altered: Wednesday, June 10, 2020 09:13:01 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 09:52:39 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\lb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

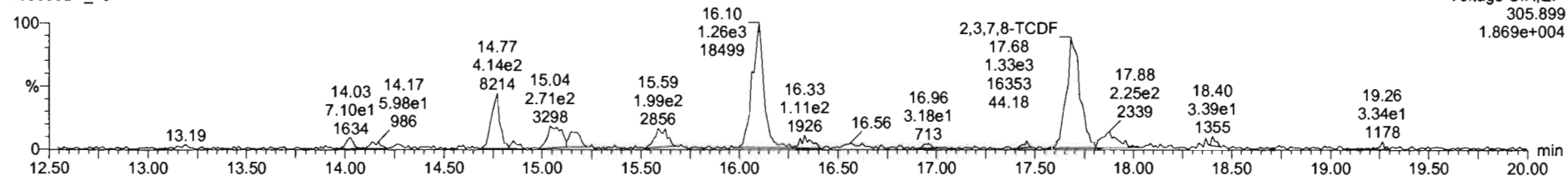
Name: 200609D1_10, Date: 09-Jun-2020, Time: 18:12:23, ID: 2000965-10RE1 PDI-163SC-A-00-01-200425 20.29, Description: PDI-163SC-A-00-01-200425

2,3,7,8-TCDF

200609D1_10

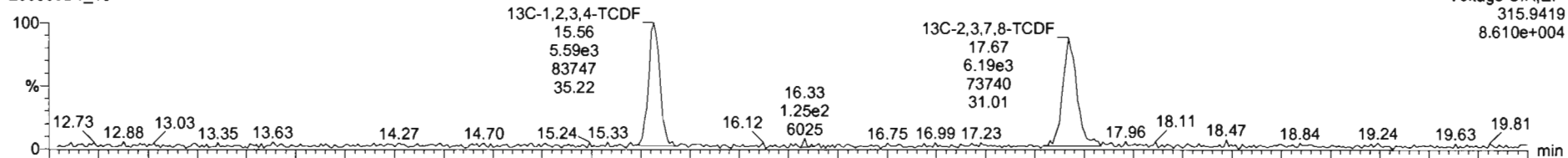


200609D1_10

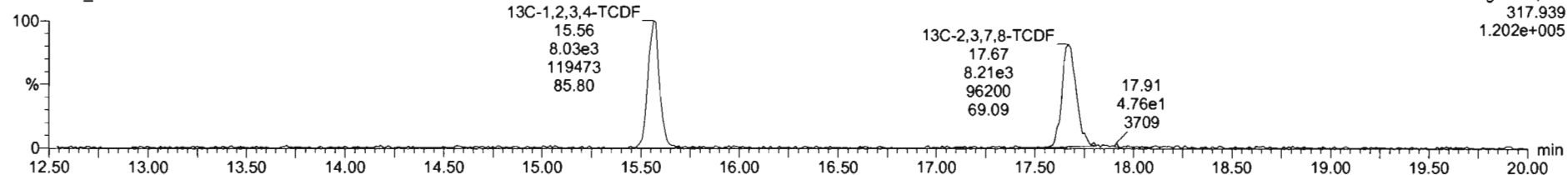


13C-2,3,7,8-TCDF

200609D1_10



200609D1_10



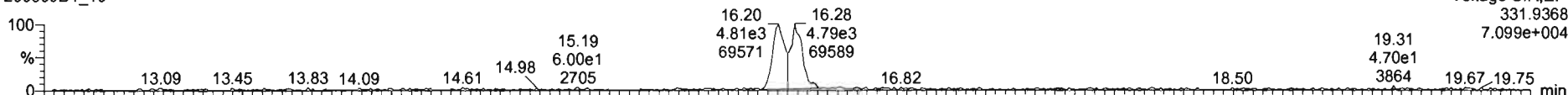
Dataset: U:\VG7.PRO\Results\200609D1\200609D1_10.qld

Last Altered: Wednesday, June 10, 2020 09:13:01 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 09:52:39 Pacific Daylight Time

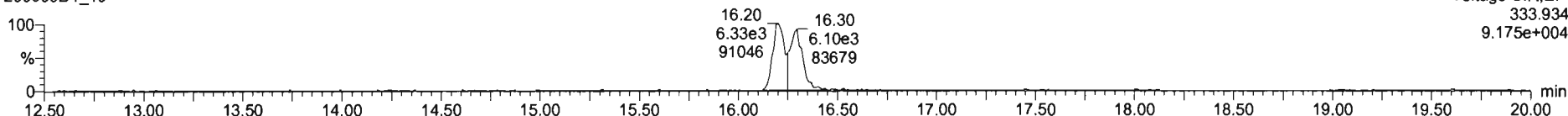
Name: 200609D1_10, Date: 09-Jun-2020, Time: 18:12:23, ID: 2000965-10RE1 PDI-163SC-A-00-01-200425 20.29, Description: PDI-163SC-A-00-01-200425

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

200609D1_10

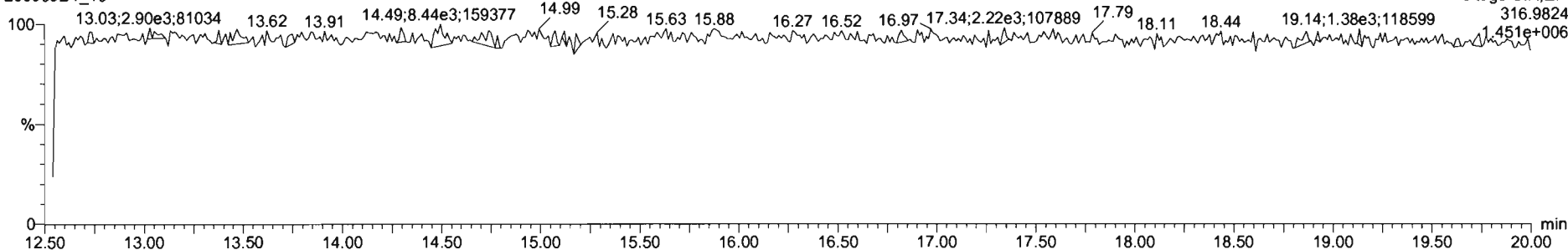


200609D1_10



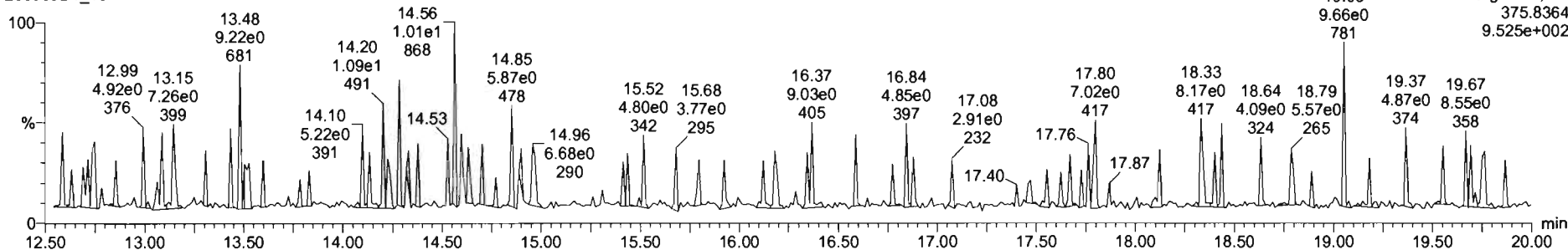
PFK1

200609D1_10



DPE1

200609D1_10



Dataset: U:\VG7.PRO\Results\200609D1\200609D1_16.qld

Last Altered: Wednesday, June 10, 2020 10:37:11 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 10:38:03 Pacific Daylight Time

DB 6/10/20 C106/19/2020

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: 200609D1_16, Date: 09-Jun-2020, Time: 21:22:33, ID: 2000965-11RE1 PDI-163SC-A-01-02-200425 18.23, Description: PDI-163SC-A-01-02-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.23e4	0.76	NO	0.982	10.078	✓ 17.724	17.72	1.000	1.001	155.61		3.56	156
2	2 13C-2,3,7,8-TCDF	1.60e4	0.74	NO	1.08	10.078	17.747	17.70	1.133	1.136	201.14	101	9.89	
3	3 13C-1,2,3,4-TCDF	1.46e4	0.79	NO	1.00	10.078	15.660	15.59	1.000	1.000	198.44	100	10.7	

Dataset: U:\VG7.PRO\Results\200609D1\200609D1_16.qld

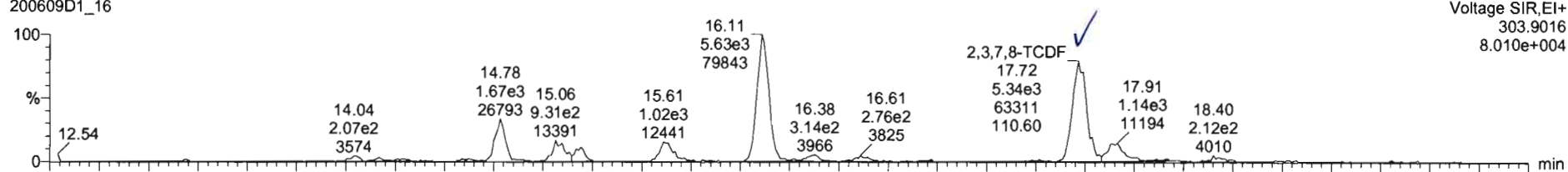
Last Altered: Wednesday, June 10, 2020 09:18:52 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 10:36:31 Pacific Daylight Time

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: 200609D1_16, Date: 09-Jun-2020, Time: 21:22:33, ID: 2000965-11RE1 PDI-163SC-A-01-02-200425 18.23, Description: PDI-163SC-A-01-02-200425

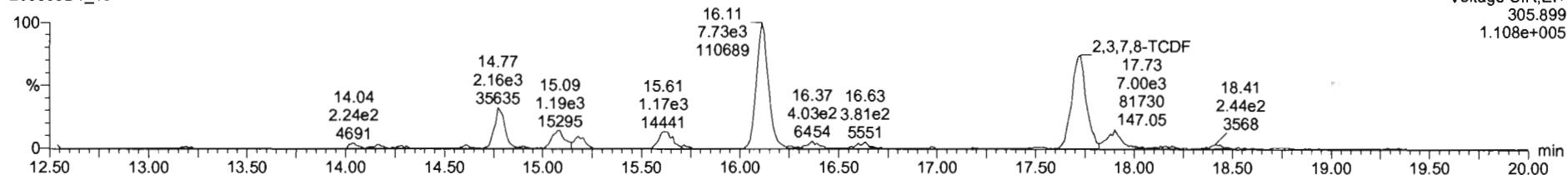
2,3,7,8-TCDF

200609D1_16



Voltage SIR,EI+
303.9016
8.010e+004

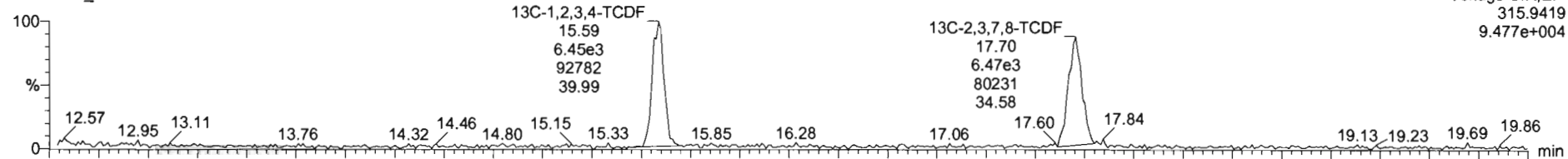
200609D1_16



Voltage SIR,EI+
305.899
1.108e+005

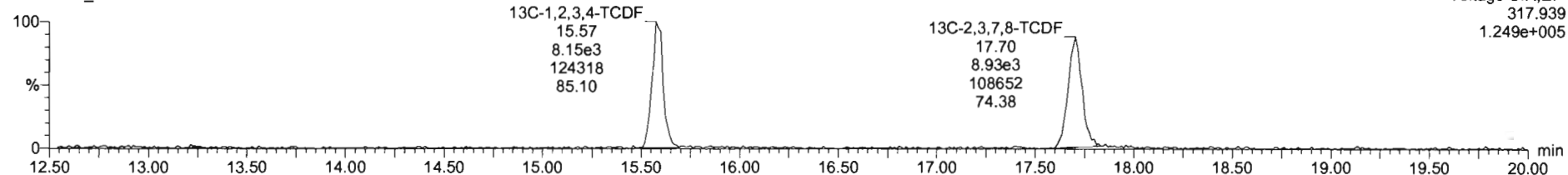
13C-2,3,7,8-TCDF

200609D1_16

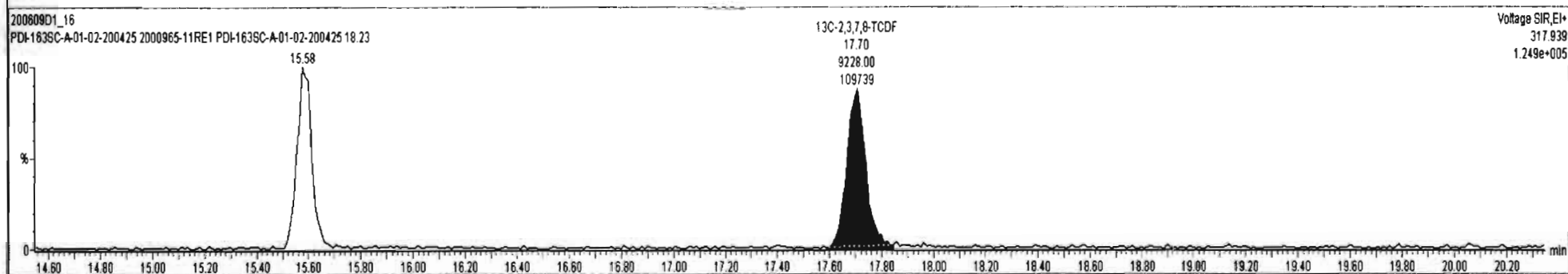
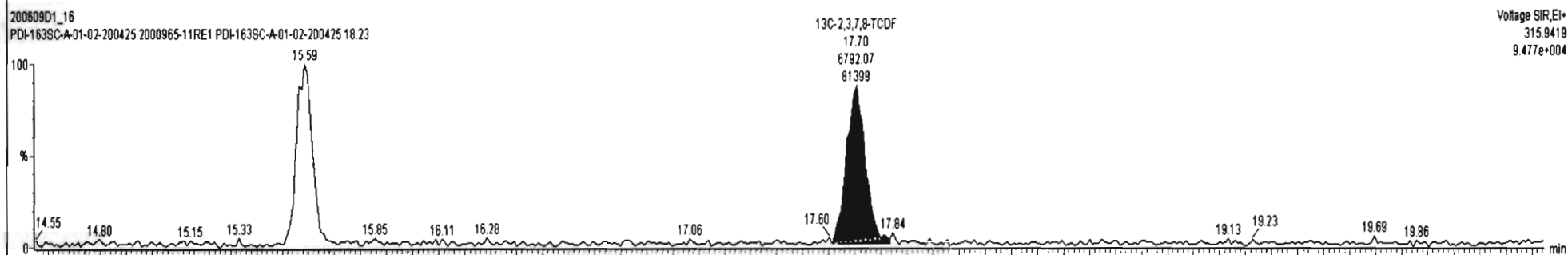
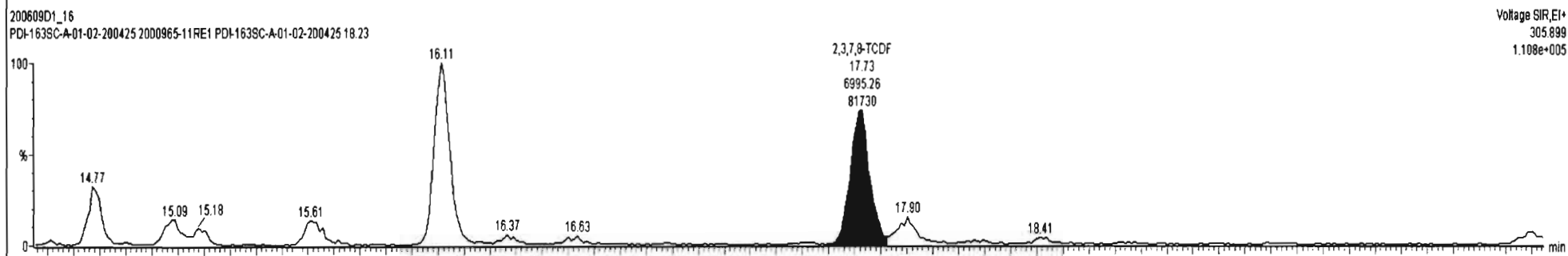
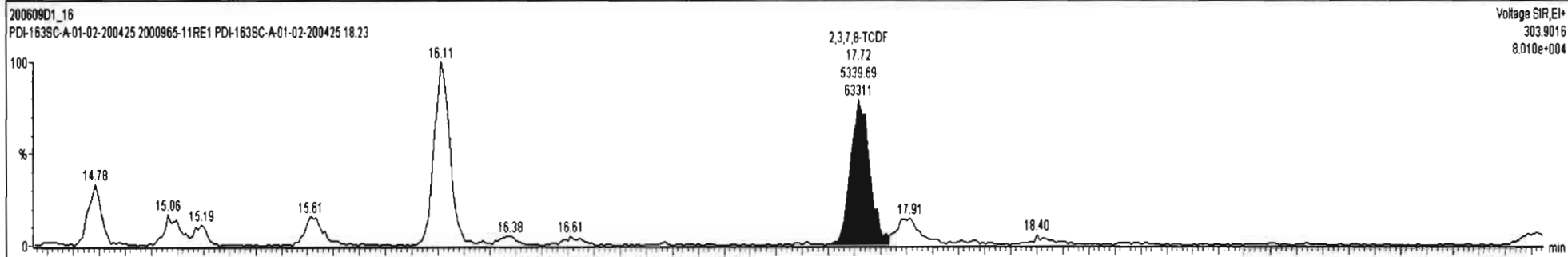


Voltage SIR,EI+
315.9419
9.477e+004

200609D1_16



Voltage SIR,EI+
317.939
1.249e+005



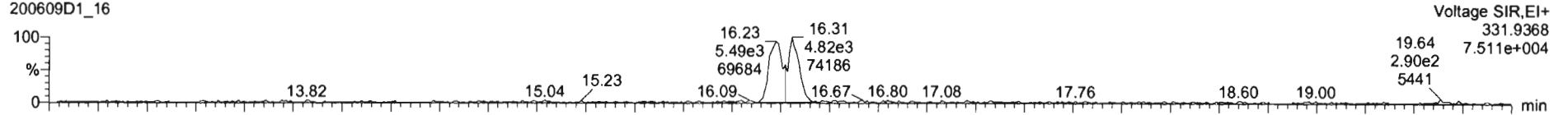
Dataset: U:\VG7.PRO\Results\200609D1\200609D1_16.qld

Last Altered: Wednesday, June 10, 2020 09:18:52 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 10:36:31 Pacific Daylight Time

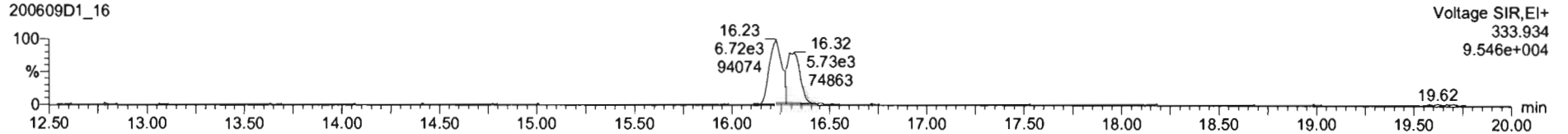
Name: 200609D1_16, Date: 09-Jun-2020, Time: 21:22:33, ID: 2000965-11RE1 PDI-163SC-A-01-02-200425 18.23, Description: PDI-163SC-A-01-02-200425

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

200609D1_16

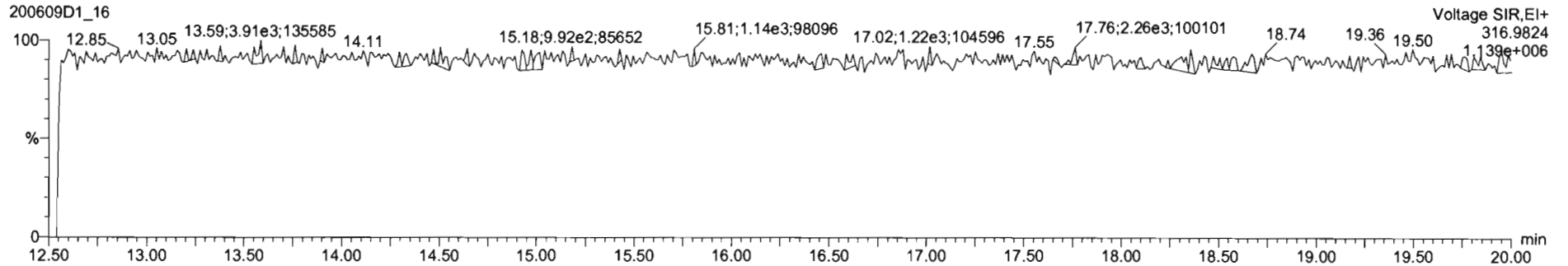


200609D1_16



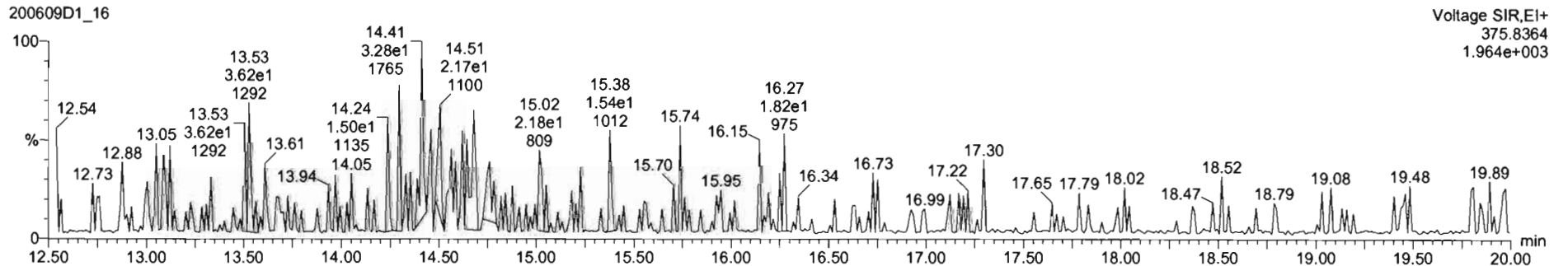
PFK1

200609D1_16



DPE1

200609D1_16



Dataset: U:\VG7.PRO\Results\200609D1\200609D1_11.qld

Last Altered: Wednesday, June 10, 2020 09:13:55 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 09:55:56 Pacific Daylight Time

DB 6/10/20 C206/19/2020

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: 200609D1_11, Date: 09-Jun-2020, Time: 18:44:04, ID: 2000965-12RE1 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	4.44e3	0.78	NO	0.982	10.003	17.689	17.69	1.000	1.001	58.508		3.14	58.5
2	2 13C-2,3,7,8-TCDF	1.54e4	0.71	NO	1.08	10.003	17.736	17.67	1.133	1.134	208.53	104	10.0	
3	3 13C-1,2,3,4-TCDF	1.37e4	0.75	NO	1.00	10.003	15.660	15.57	1.000	1.000	199.95	100	10.8	

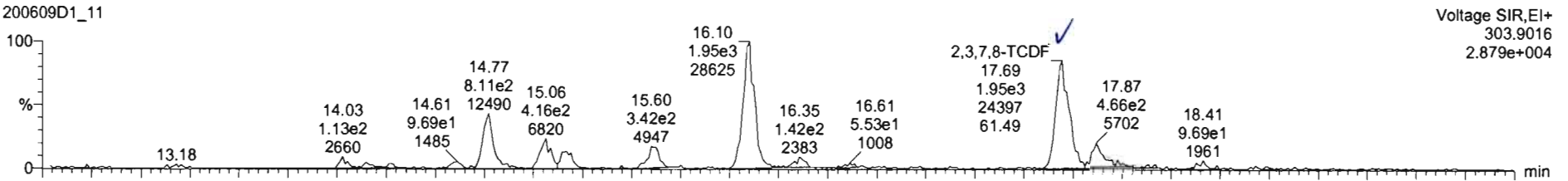
Dataset: U:\VG7.PRO\Results\200609D1\200609D1_11.qld

Last Altered: Wednesday, June 10, 2020 09:13:55 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 09:56:14 Pacific Daylight Time

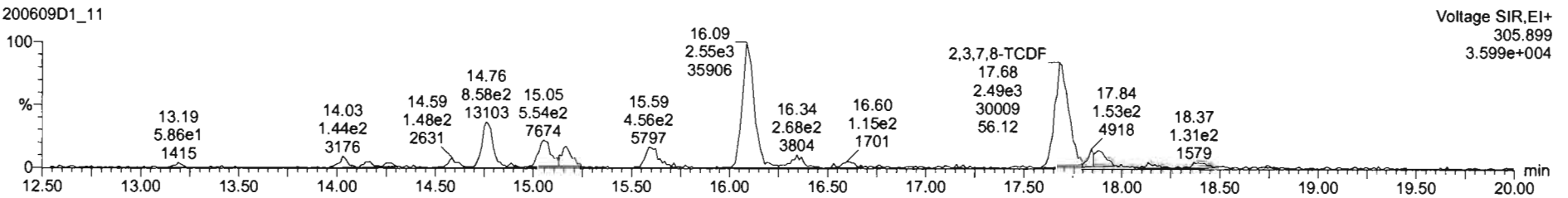
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200609D1_11, Date: 09-Jun-2020, Time: 18:44:04, ID: 2000965-12RE1 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

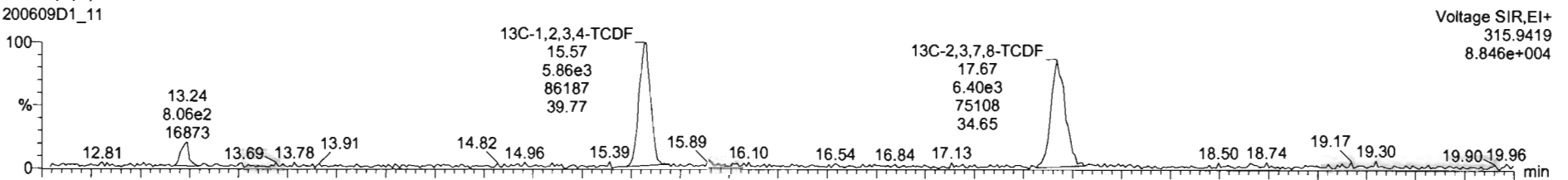
2,3,7,8-TCDF
200609D1_11



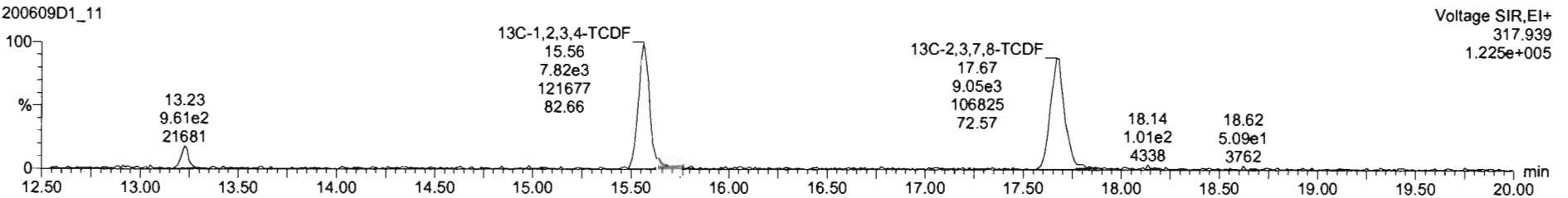
200609D1_11



13C-2,3,7,8-TCDF
200609D1_11



200609D1_11



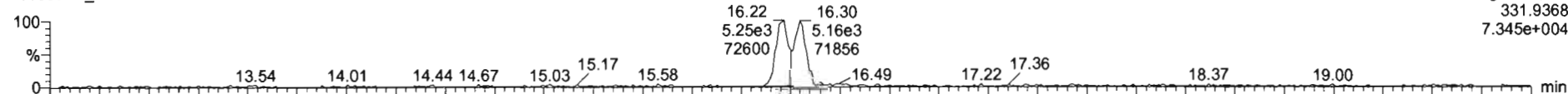
Dataset: U:\VG7.PRO\Results\200609D1\200609D1_11.qld

Last Altered: Wednesday, June 10, 2020 09:13:55 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 09:56:14 Pacific Daylight Time

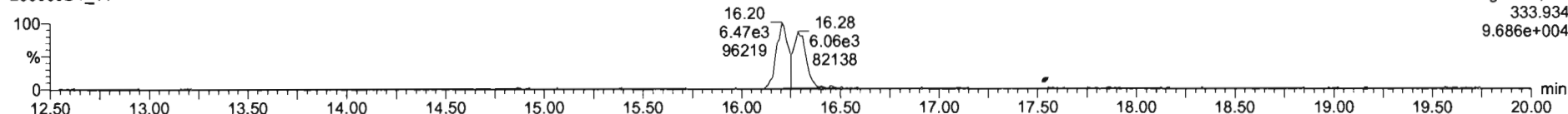
Name: 200609D1_11, Date: 09-Jun-2020, Time: 18:44:04, ID: 2000965-12RE1 PDI-163SC-A-02-03-200425 17.35, Description: PDI-163SC-A-02-03-200425

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

200609D1_11

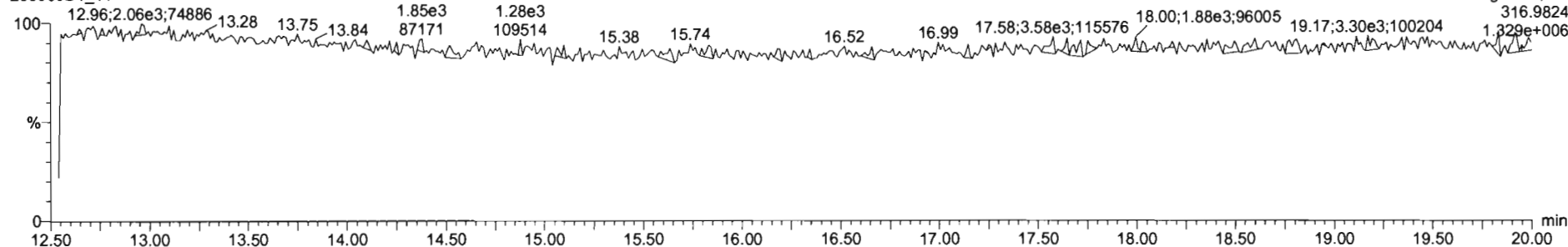


200609D1_11



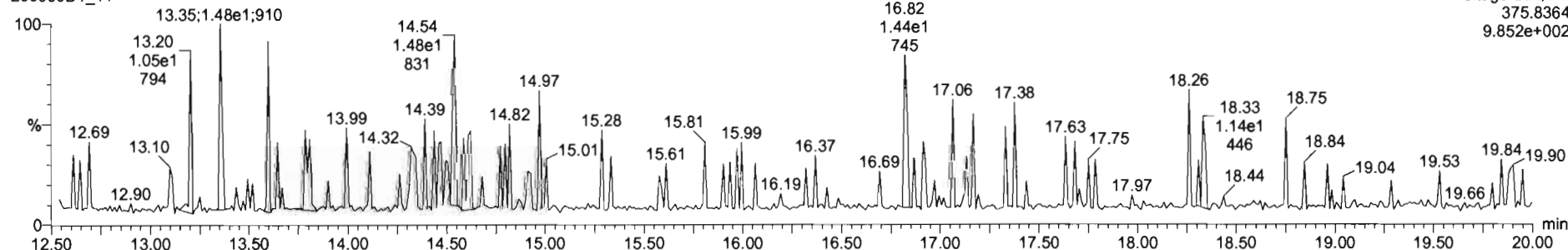
PFK1

200609D1_11



DPE1

200609D1_11



Dataset: U:\VG7.PRO\Results\200609D1\200609D1_12.qld

Last Altered: Wednesday, June 10, 2020 09:59:33 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 10:03:32 Pacific Daylight Time

DB 6/10/20 C-7 06/19/2020

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: 200609D1_12, Date: 09-Jun-2020, Time: 19:15:45, ID: B0E0020-DUP1RE1 Duplicate, 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-TCDF	5.52e3	0.85	NO	0.982	9.997	17.654	17.65	1.000	1.001	66.523		2.61	66.5
2	2 13C-2,3,7,8-TCDF	1.69e4	0.81	NO	1.08	9.997	17.677	17.63	1.133	1.136	238.13	119	10.2	
3	3 13C-1,2,3,4-TCDF	1.31e4	0.78	NO	1.00	9.997	15.660	15.52	1.000	1.000	200.06	100	11.0	

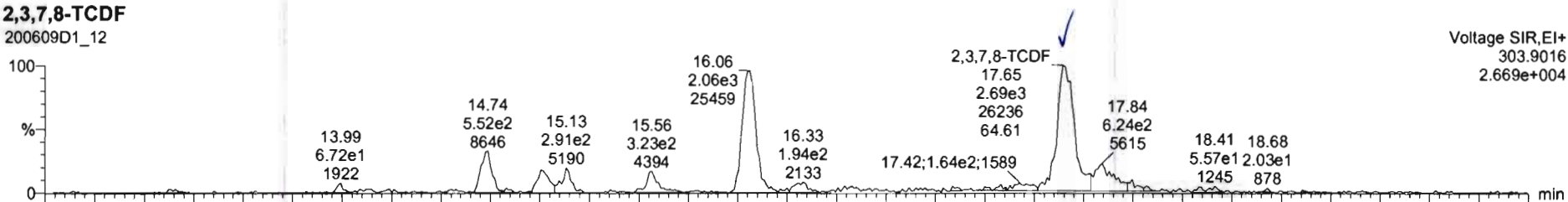
Dataset: U:\VG7.PRO\Results\200609D1\200609D1_12.qld

Last Altered: Wednesday, June 10, 2020 09:14:49 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 09:58:04 Pacific Daylight Time

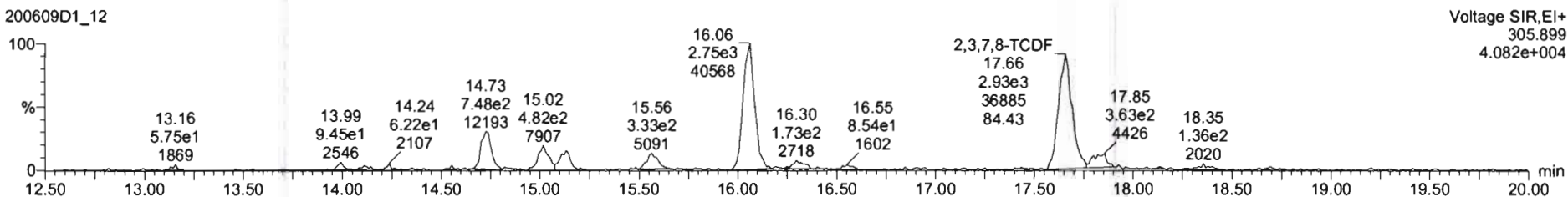
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200609D1_12, Date: 09-Jun-2020, Time: 19:15:45, ID: B0E0020-DUP1RE1 Duplicate, Description: Duplicate

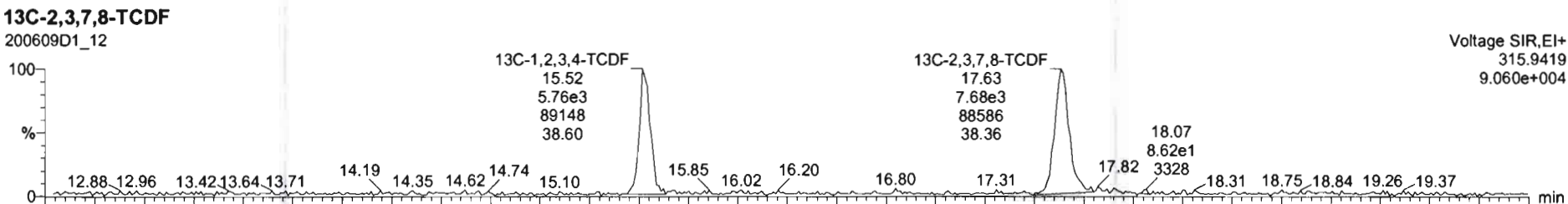
2,3,7,8-TCDF
200609D1_12



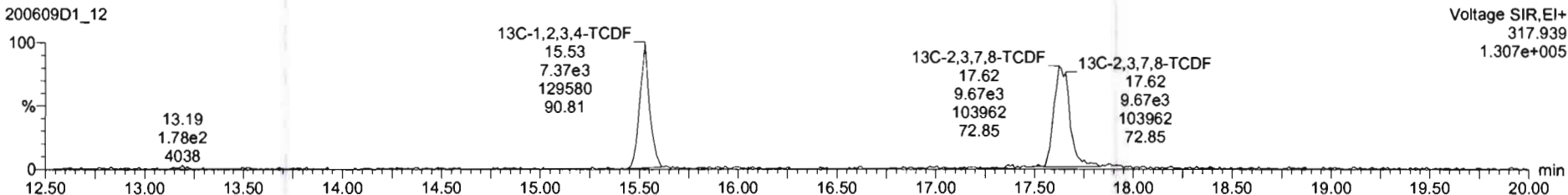
200609D1_12



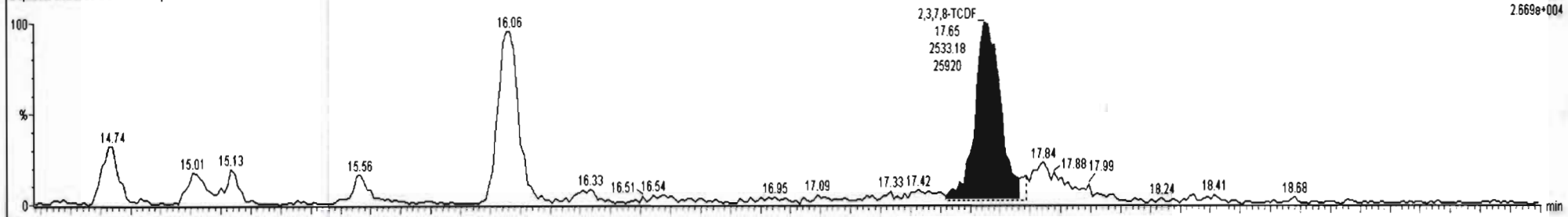
13C-2,3,7,8-TCDF
200609D1_12



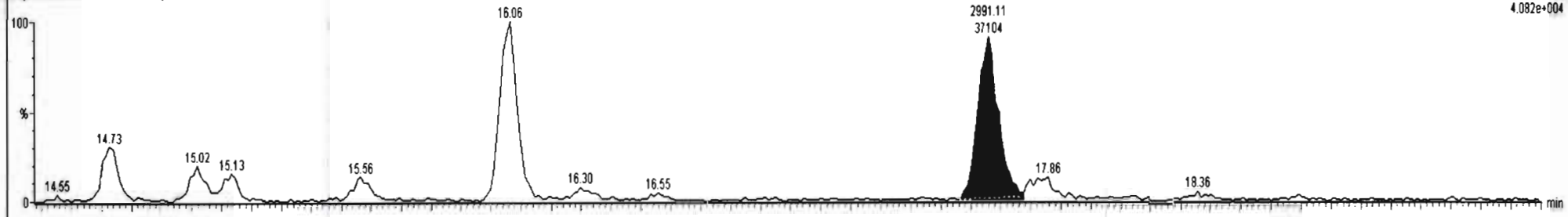
200609D1_12



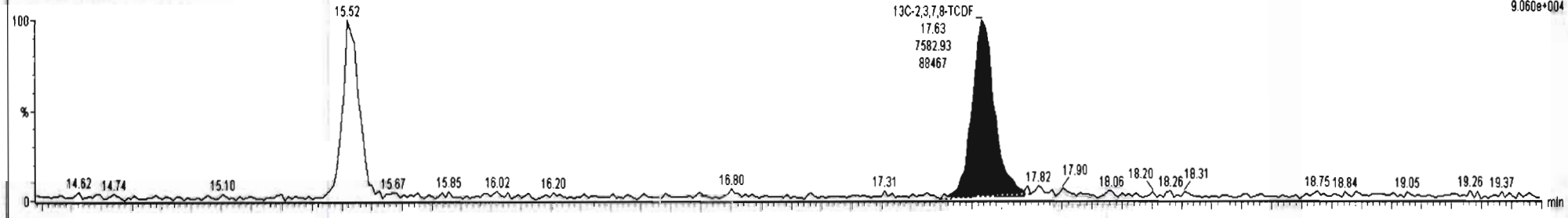
200609D1_12 Duplicate B0E0020-DUP1RE1 Duplicate Voltage SIR,El+ 303.9016 2.669e+004



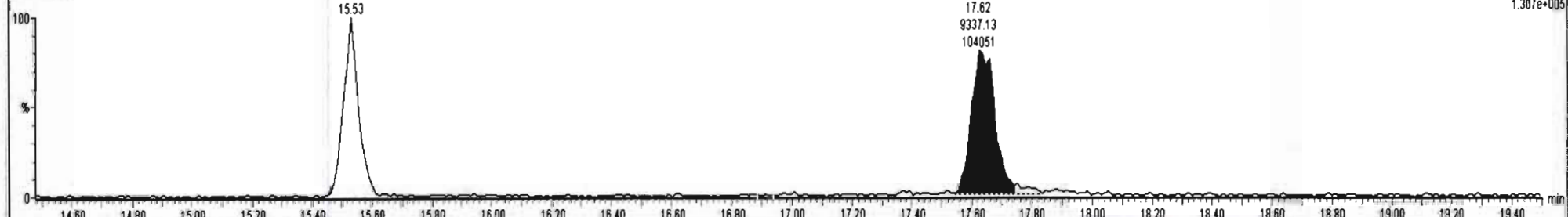
200609D1_12 Duplicate B0E0020-DUP1RE1 Duplicate Voltage SIR,El+ 305.899 4.082e+004



200609D1_12 Duplicate B0E0020-DUP1RE1 Duplicate Voltage SIR,El+ 315.9419 9.060e+004



200609D1_12 Duplicate B0E0020-DUP1RE1 Duplicate Voltage SIR,El+ 317.939 1.307e+005



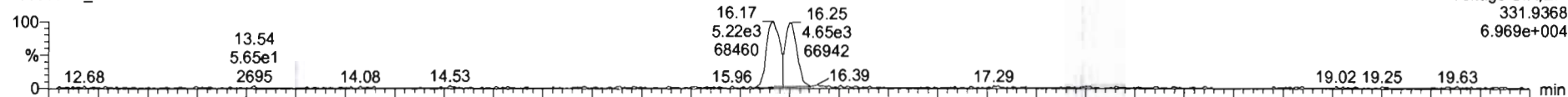
Dataset: U:\VG7.PRO\Results\200609D1\200609D1_12.qld

Last Altered: Wednesday, June 10, 2020 09:14:49 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 09:58:04 Pacific Daylight Time

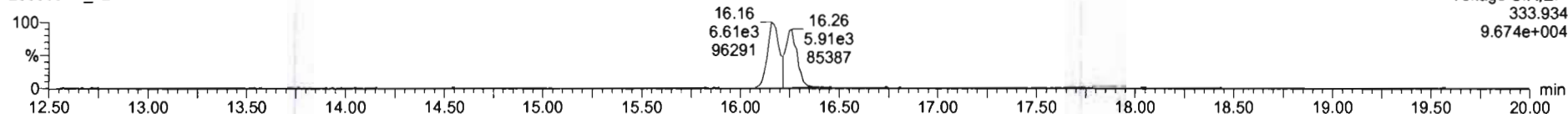
Name: 200609D1_12, Date: 09-Jun-2020, Time: 19:15:45, ID: B0E0020-DUP1RE1 Duplicate, Description: Duplicate

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

200609D1_12

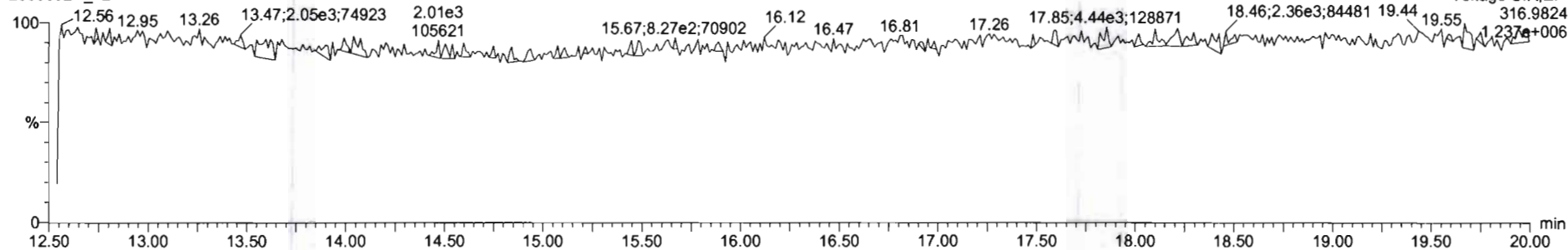


200609D1_12



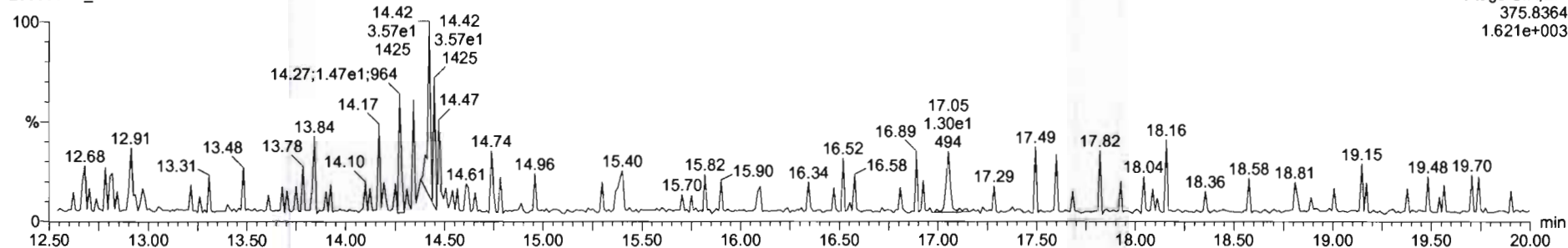
PFK1

200609D1_12



DPE1

200609D1_12



Dataset: U:\VG7.PRO\Results\200609D1\200609D1_4.qld

Last Altered: Tuesday, June 09, 2020 16:54:49 Pacific Daylight Time

Printed: Tuesday, June 09, 2020 16:55:06 Pacific Daylight Time

DB 6/9/20 C106/19/2020

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: 200609D1_4, Date: 09-Jun-2020, Time: 15:02:16, ID: 2000965-14RE1 PDI-163SC-A-04-05-200425 15.92, Description: PDI-163SC-A-04-05-200425

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.65e2	0.88	NO	0.982	10.024	17.654	17.63	1.000	1.000	1.5488		1.28	1.55
2	2 13C-2,3,7,8-TCDF	2.16e4	0.75	NO	1.08	10.024	17.689	17.63	1.133	1.136	201.73	101	5.55	
3	3 13C-1,2,3,4-TCDF	1.97e4	0.75	NO	1.00	10.024	15.660	15.53	1.000	1.000	199.53	100	6.01	

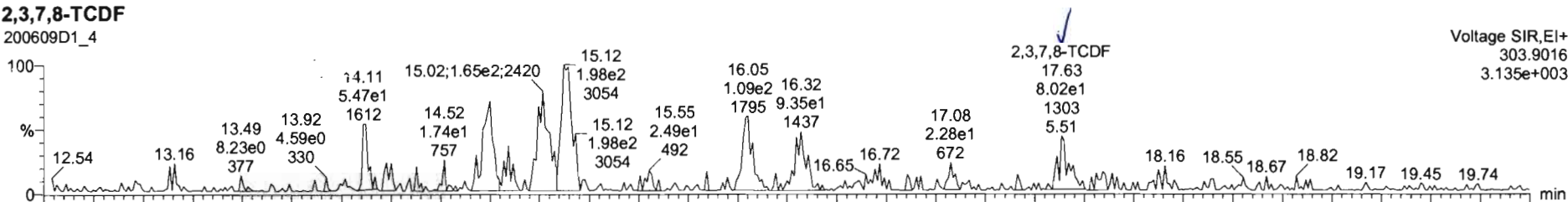
Dataset: U:\VG7.PRO\Results\200609D1\200609D1_4.qld

Last Altered: Tuesday, June 09, 2020 16:52:34 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 16:53:45 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

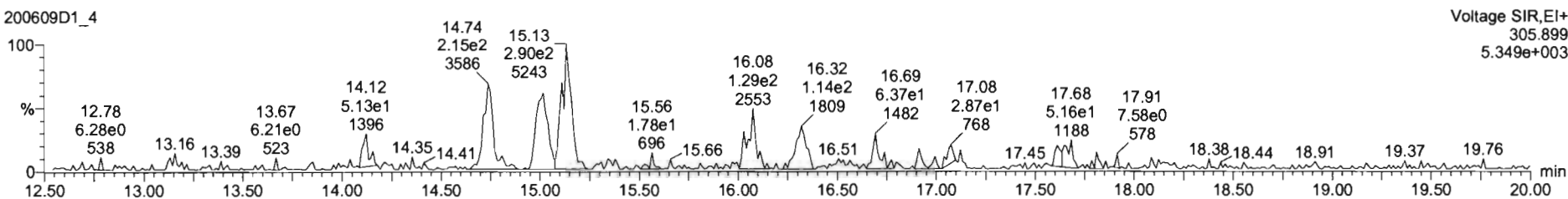
Name: 200609D1_4, Date: 09-Jun-2020, Time: 15:02:16, ID: 2000965-14RE1 PDI-163SC-A-04-05-200425 15.92, Description: PDI-163SC-A-04-05-200425

2,3,7,8-TCDF
200609D1_4



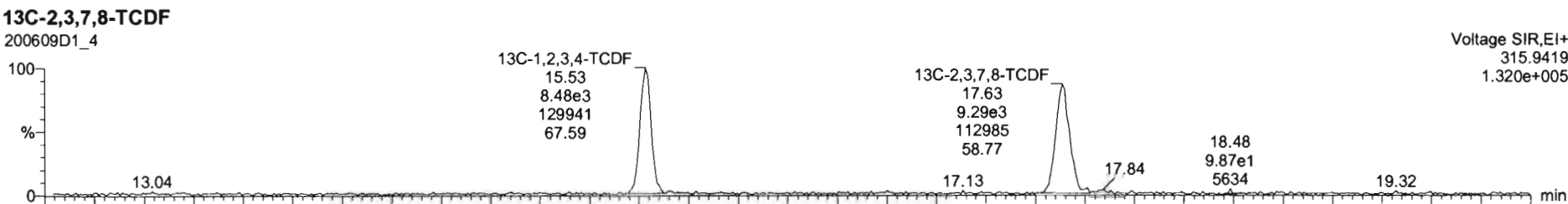
Voltage SIR, EI+
303.9016
3.135e+003

200609D1_4



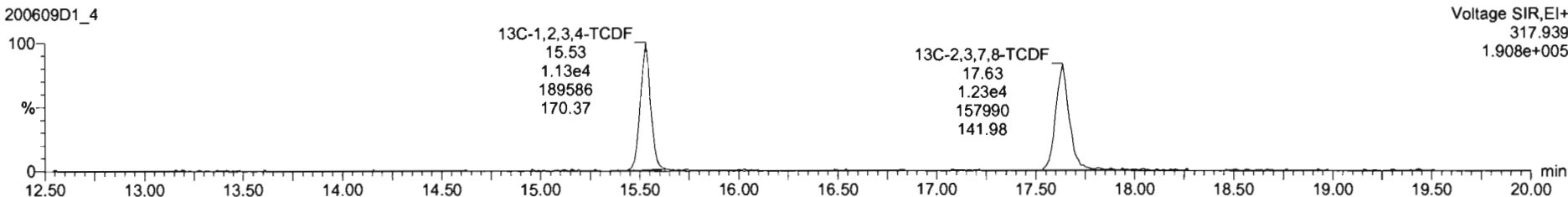
Voltage SIR, EI+
305.899
5.349e+003

13C-2,3,7,8-TCDF
200609D1_4

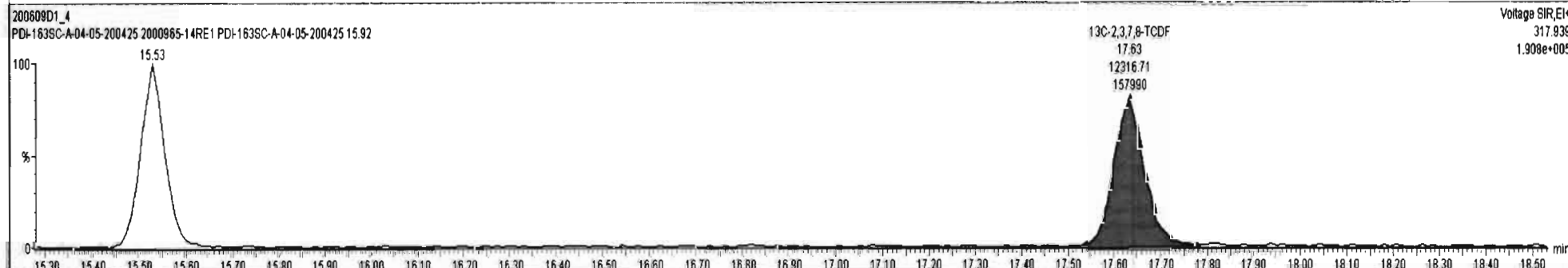
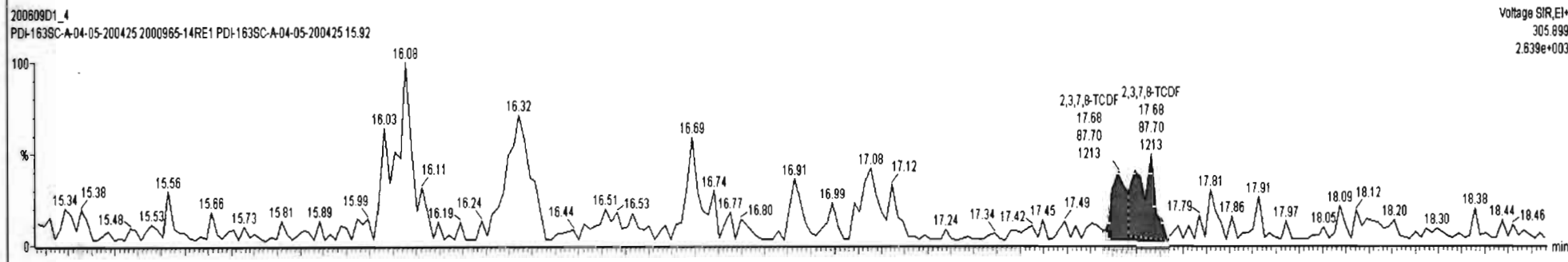
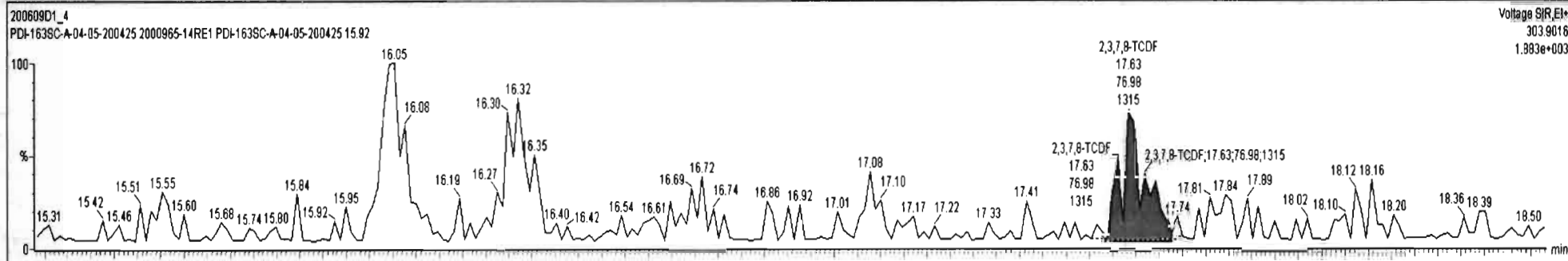


Voltage SIR, EI+
315.9419
1.320e+005

200609D1_4



Voltage SIR, EI+
317.939
1.908e+005



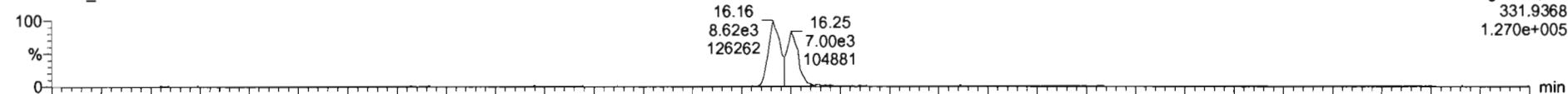
Dataset: U:\VG7.PRO\Results\200609D1\200609D1_4.qld

Last Altered: Tuesday, June 09, 2020 16:52:34 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 16:53:45 Pacific Daylight Time

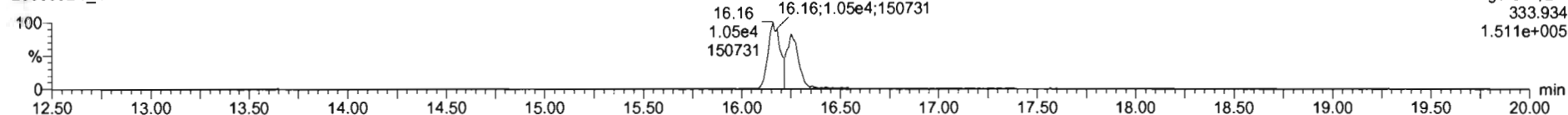
Name: 200609D1_4, Date: 09-Jun-2020, Time: 15:02:16, ID: 2000965-14RE1 PDI-163SC-A-04-05-200425 15.92, Description: PDI-163SC-A-04-05-200425

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

200609D1_4

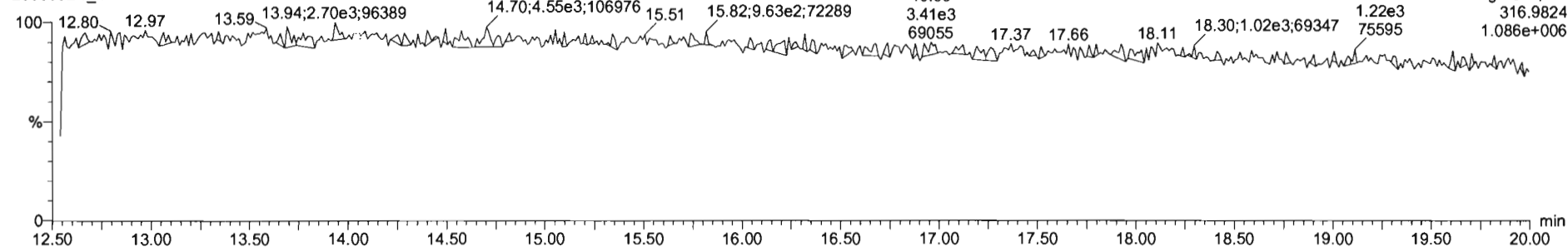


200609D1_4



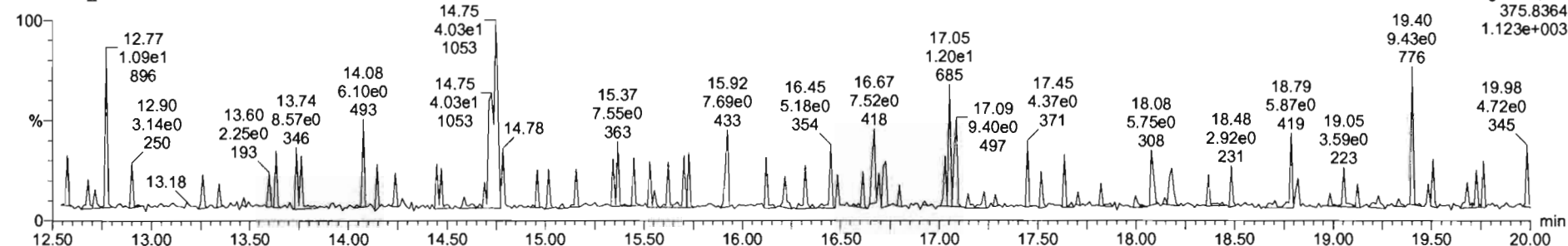
PFK1

200609D1_4



DPE1

200609D1_4



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200603K1-1

Reviewed By: CT 06/04/2020

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1614 1699 429 1613/1668/8280	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox" value="NA"/>	
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8280 CS1 End Standard:		
(ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox" value="NA"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	<u>Geo</u>	<input type="checkbox"/>			
Run Log:					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
- Samples within 12 hour clock?	<input checked="" type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>			
- Bottle position verified?	<u>Geo</u>	<input type="checkbox"/>			

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-1.qld

Last Altered: Wednesday, June 03, 2020 8:59:09 AM Pacific Daylight Time
Printed: Wednesday, June 03, 2020 8:59:46 AM Pacific Daylight Time

GPB 06/03/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

0706/04/2020

Name: 200603R1_1, Date: 03-Jun-2020, Time: 08:03:40, ID: ST200603R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	5.46e4	6.58e5	0.76	NO	0.888	26.50	26.50	NO	1.001	1.001	9.3505	93.5	NO
2	2 1,2,3,7,8-PeCDD	1.89e5	4.46e5	0.61	NO	0.908	31.46	31.45	NO	1.001	1.000	46.586	93.2	NO
3	3 1,2,3,4,7,8-HxCDD	1.39e5	2.83e5	1.23	NO	1.03	34.83	34.83	NO	1.000	1.000	47.507	95.0	NO
4	4 1,2,3,6,7,8-HxCDD	1.61e5	3.73e5	1.25	NO	0.892	34.92	34.93	NO	1.000	1.000	48.276	96.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.38e5	3.27e5	1.23	NO	0.887	35.22	35.22	NO	1.000	1.000	47.561	95.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	9.86e4	2.34e5	1.02	NO	0.864	38.75	38.76	NO	1.000	1.001	48.841	97.7	NO
7	7 OCDD	2.11e5	4.66e5	0.89	NO	0.914	41.72	41.74	NO	1.000	1.001	99.353	99.4	NO
8	8 2,3,7,8-TCDF	6.00e4	8.74e5	0.73	NO	0.751	25.60	25.60	NO	1.001	1.001	9.1448	91.4	NO
9	9 1,2,3,7,8-PeCDF	2.79e5	6.59e5	1.55	NO	0.893	30.17	30.17	NO	1.001	1.001	47.471	94.9	NO
10	10 2,3,4,7,8-PeCDF	2.81e5	6.25e5	1.56	NO	0.935	31.18	31.15	NO	1.001	1.000	48.093	96.2	NO
11	11 1,2,3,4,7,8-HxCDF	1.64e5	3.76e5	1.22	NO	0.884	33.94	33.95	NO	1.000	1.000	49.379	98.8	NO
12	12 1,2,3,6,7,8-HxCDF	1.94e5	4.43e5	1.22	NO	0.889	34.07	34.08	NO	1.000	1.001	49.293	98.6	NO
13	13 2,3,4,6,7,8-HxCDF	1.75e5	3.90e5	1.23	NO	0.934	34.68	34.67	NO	1.001	1.001	48.099	96.2	NO
14	14 1,2,3,7,8,9-HxCDF	1.36e5	3.12e5	1.21	NO	0.871	35.56	35.58	NO	1.000	1.001	49.994	100	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.21e5	2.76e5	1.02	NO	0.873	37.37	37.35	NO	1.001	1.001	50.184	100	NO
16	16 1,2,3,4,7,8,9-HpCDF	8.97e4	1.77e5	0.98	NO	1.01	39.28	39.30	NO	1.000	1.001	49.932	99.9	NO
17	17 OCDF	2.18e5	5.51e5	0.83	NO	0.806	41.91	41.93	NO	1.000	1.001	97.902	97.9	NO
18	18 13C-2,3,7,8-TCDD	6.58e5	5.67e5	0.78	NO	1.16	26.49	26.47	NO	1.026	1.026	100.35	100	NO
19	19 13C-1,2,3,7,8-PeCDD	4.46e5	5.67e5	0.61	NO	0.849	31.67	31.44	NO	1.227	1.218	92.678	92.7	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.83e5	3.76e5	1.26	NO	0.779	34.83	34.81	NO	1.014	1.014	96.528	96.5	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.73e5	3.76e5	1.28	NO	1.02	34.94	34.92	NO	1.017	1.017	97.526	97.5	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.27e5	3.76e5	1.24	NO	0.903	35.22	35.21	NO	1.025	1.025	96.132	96.1	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.34e5	3.76e5	1.05	NO	0.689	38.74	38.73	NO	1.128	1.128	90.141	90.1	NO
24	24 13C-OCDD	4.66e5	3.76e5	0.87	NO	0.652	41.76	41.72	NO	1.216	1.215	189.91	95.0	NO
25	25 13C-2,3,7,8-TCDF	8.74e5	8.24e5	0.78	NO	1.06	25.53	25.57	NO	0.989	0.991	100.11	100	NO
26	26 13C-1,2,3,7,8-PeCDF	6.59e5	8.24e5	1.60	NO	0.838	30.06	30.15	NO	1.165	1.168	95.458	95.5	NO
27	27 13C-2,3,4,7,8-PeCDF	6.25e5	8.24e5	1.60	NO	0.817	31.01	31.15	NO	1.202	1.207	92.910	92.9	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.76e5	3.76e5	0.50	NO	1.01	33.96	33.94	NO	0.989	0.988	99.251	99.3	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.43e5	3.76e5	0.50	NO	1.17	34.09	34.06	NO	0.992	0.992	100.78	101	NO
30	30 13C-2,3,4,6,7,8-HxCDF	3.90e5	3.76e5	0.49	NO	1.02	34.66	34.64	NO	1.009	1.009	101.38	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.12e5	3.76e5	0.52	NO	0.860	35.56	35.56	NO	1.035	1.035	96.520	96.5	NO

Dataset: U:\VG12.PRO\Results\200603R1\200603R1-1.qld

Last Altered: Wednesday, June 03, 2020 8:59:09 AM Pacific Daylight Time

Printed: Wednesday, June 03, 2020 8:59:46 AM Pacific Daylight Time

Name: 200603R1_1, Date: 03-Jun-2020, Time: 08:03:40, ID: ST200603R1_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	2.76e5	3.76e5	0.41	NO	0.774	37.31	37.33	NO	1.086	1.087	94.759	94.8	NO
33	13C-1,2,3,4,7,8,9-HpCDF	1.77e5	3.76e5	0.43	NO	0.521	39.34	39.28	NO	1.145	1.144	90.496	90.5	NO
34	13C-OCDF	5.51e5	3.76e5	0.86	NO	0.746	41.93	41.91	NO	1.221	1.220	196.38	98.2	NO
35	37Cl-2,3,7,8-TCDD	5.96e4	5.67e5			1.04	26.52	26.48	NO	1.028	1.026	10.136	101	NO
36	13C-1,2,3,4-TCDD	5.67e5	5.67e5	0.80	NO	1.00	25.89	25.81	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	8.24e5	8.24e5	0.77	NO	1.00	24.36	24.12	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	3.76e5	3.76e5	0.49	NO	1.00	34.42	34.35	NO	1.000	1.000	100.00	100	YES <i>OK</i>

Dataset: Untitled

Last Altered: Thursday, June 04, 2020 07:17:36 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:17:55 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

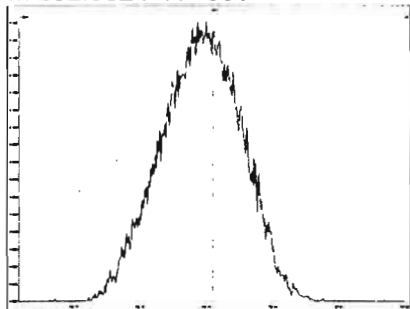
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
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2	200603R1_2	BOE0020-BS1 OPR 10	03-Jun-20	08:52:45
3	200603R1_3	SOLVENT BLANK	03-Jun-20	09:39:59
4	200603R1_4	BOE0020-BLK1 Method Blank 10	03-Jun-20	10:26:12
5	200603R1_5	2000965-01 PDI-150SC-A-00-01-200425 11.87	03-Jun-20	11:13:04
6	200603R1_6	2000965-02 PDI-150SC-A-01-02-200425 11.25	03-Jun-20	12:00:07
7	200603R1_7	2000965-03 PDI-150SC-A-02-03-200425 11.67	03-Jun-20	12:46:20
8	200603R1_8	2000965-04 PDI-150SC-A-03-04-200425 13.02	03-Jun-20	13:32:34
9	200603R1_9	2000965-05 PDI-150SC-A-04-05-200425 11.85	03-Jun-20	14:20:17
10	200603R1_10	2000965-06 PDI-150SC-A-05-06-200425 11.28	03-Jun-20	15:06:33
11	200603R1_11	2000965-07 PDI-150SC-A-06-07-200425 11.61	03-Jun-20	15:52:46
12	200603R1_12	2000965-08 PDI-150SC-A-07-08-200425 12.66	03-Jun-20	16:38:58
13	200603R1_13	2000965-09 PDI-1163SC-A-01-02-200425 19.05	03-Jun-20	17:25:11
14	200603R1_14	2000965-10 PDI-163SC-A-00-01-200425 20.29	03-Jun-20	18:11:21
15	200603R1_15	2000965-11 PDI-163SC-A-01-02-200425 18.23	03-Jun-20	18:57:34

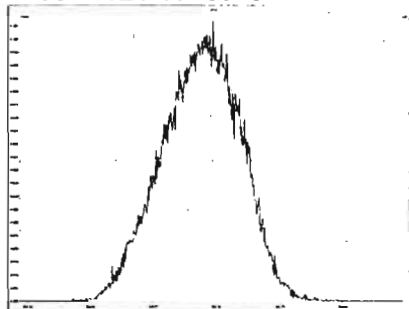
Reference: P-File: P000000 Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, June 03, 2020 07:59:13 Pacific Daylight Time

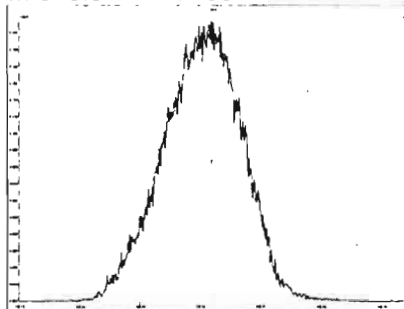
M 292.9824 R 10637



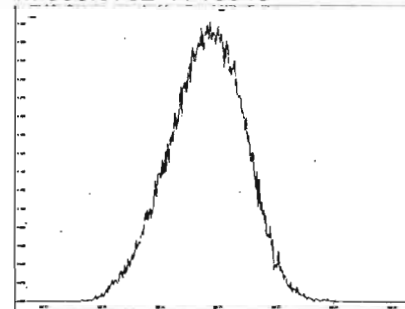
M 304.9824 R 10506



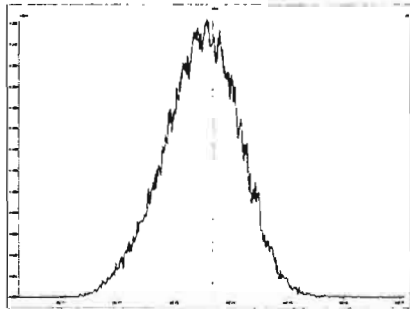
M 318.9792 R 10822



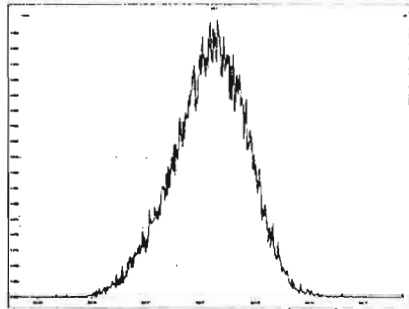
M 330.9792 R 10546



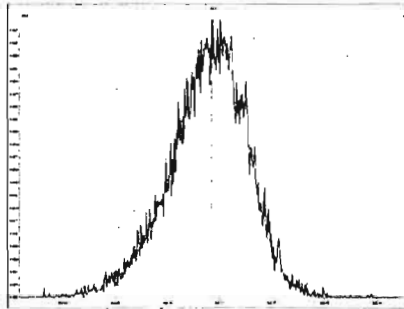
M 342.9792 R 10593



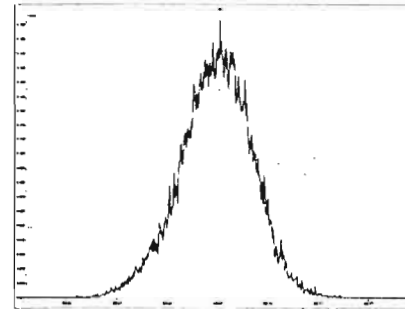
M 354.9792 R 11011



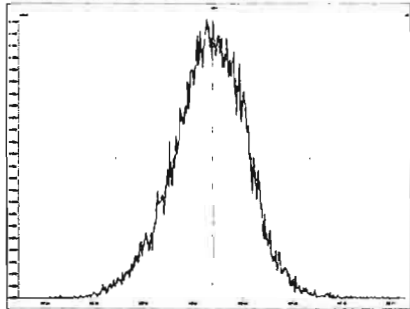
M 366.9792 R 11157



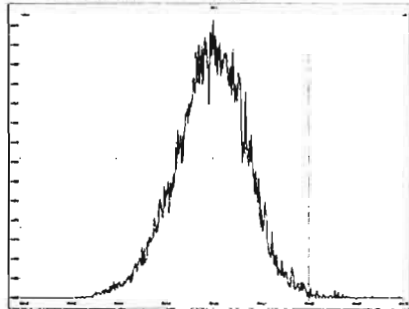
M 380.9760 R 11061



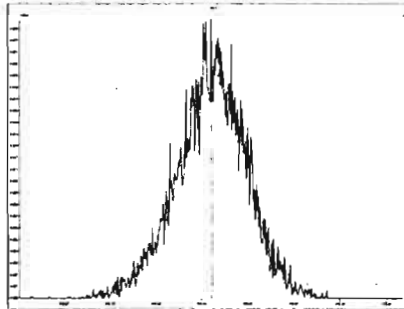
M 392.9760 R 11112



M 404.9760 R 11520



M 416.9760 R 11626



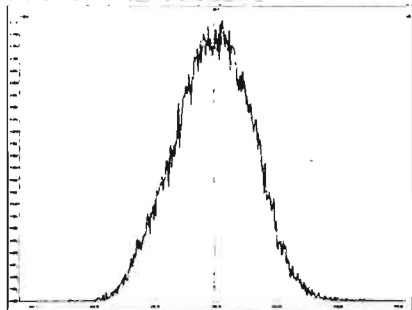
Experiment Calibration Report

MassLynx 4.1 SCN815

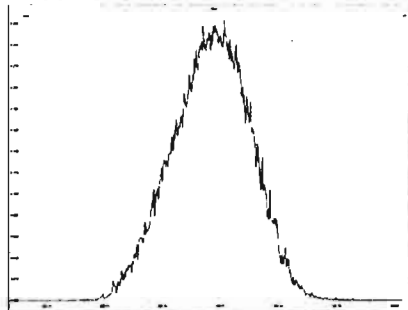
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, June 03, 2020 08:00:16 Pacific Daylight Time

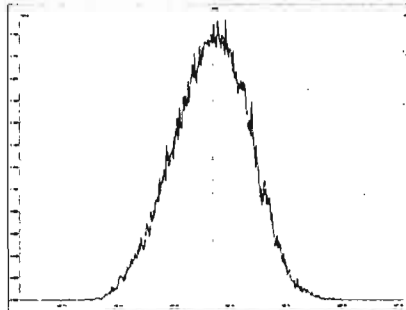
M 318.9792 R 10549



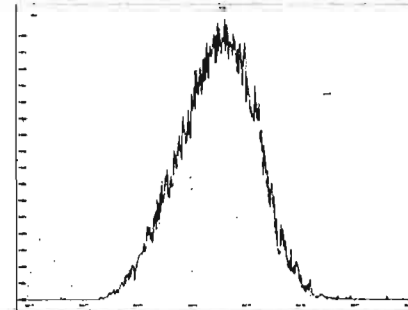
M 330.9792 R 10502



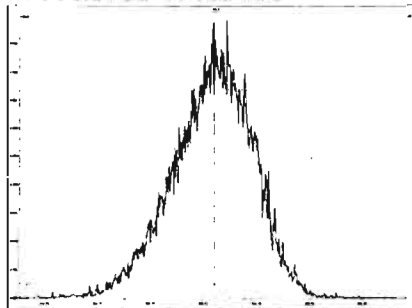
M 342.9792 R 10823



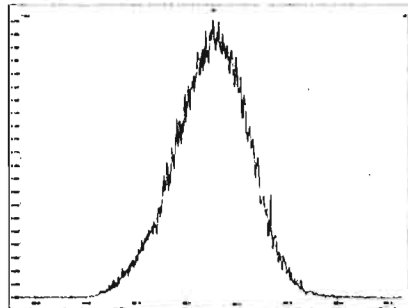
M 354.9792 R 10592



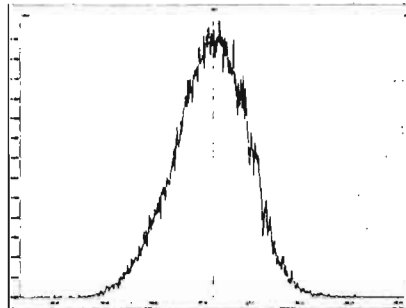
M 366.9792 R 10418



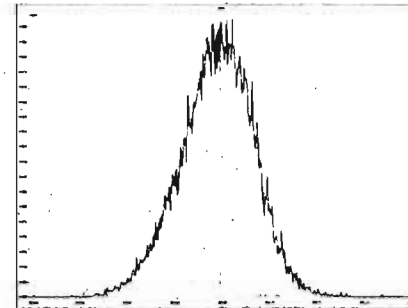
M 380.9760 R 10917



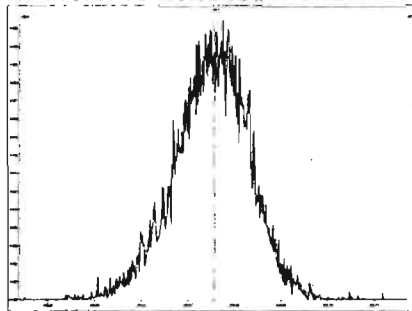
M 392.9760 R 10867



M 404.9760 R 11111



M 416.9760 R 11159



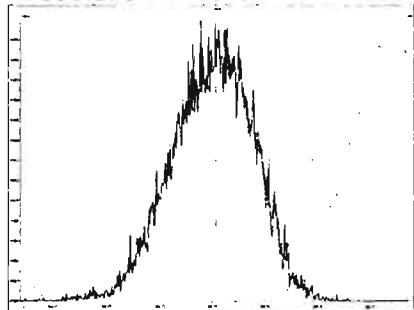
Experiment Calibration Report

MassLynx 4.1 SCN815

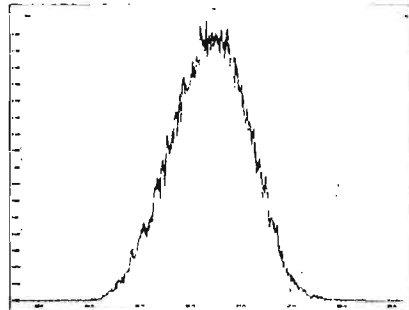
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, June 03, 2020 08:00:56 Pacific Daylight Time

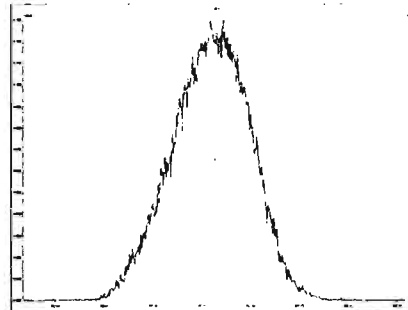
M 366.9792 R 10457



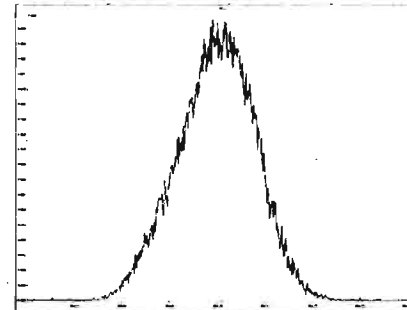
M 380.9760 R 10589



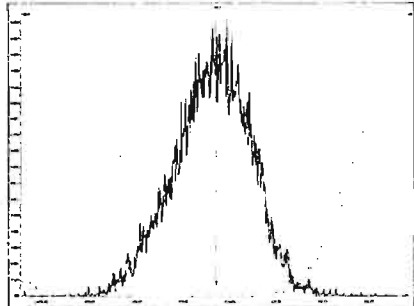
M 392.9760 R 10728



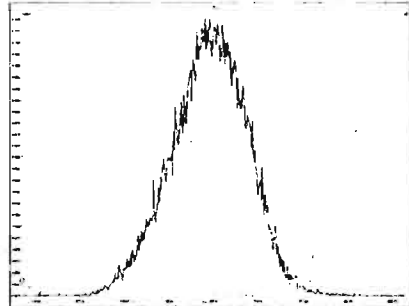
M 404.9760 R 10594



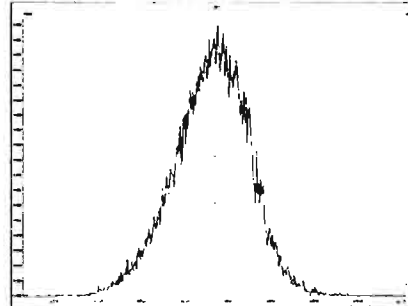
M 416.9760 R 11311



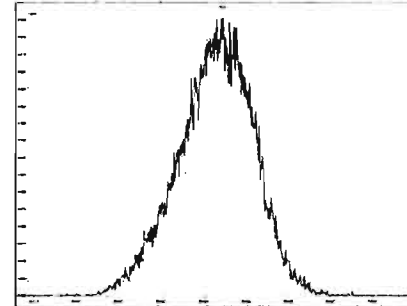
M 430.9728 R 10820



M 442.9728 R 11415



M 454.9728 R 10918



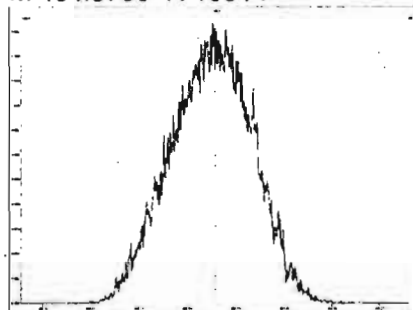
Experiment Calibration Report

MassLynx 4.1 SCN815

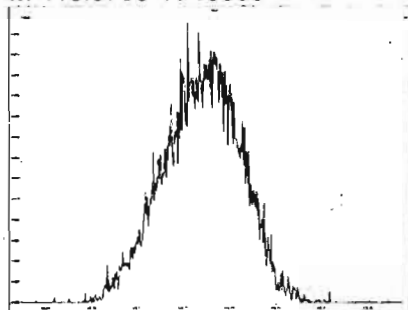
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, June 03, 2020 08:01:22 Pacific Daylight Time

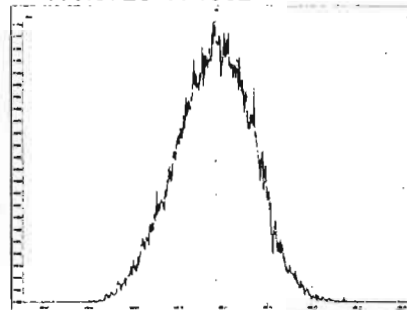
M 404.9760 R 10914



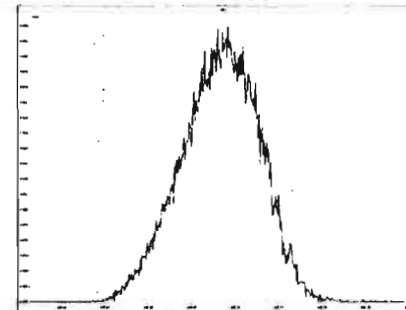
M 416.9760 R 10593



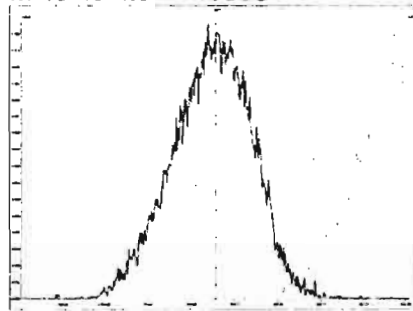
M 430.9728 R 10821



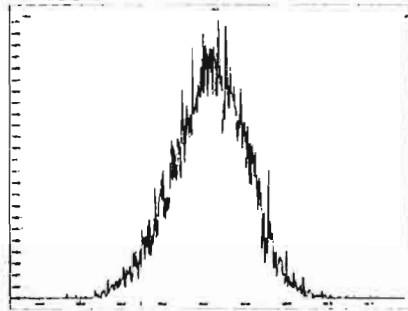
M 442.9728 R 10639



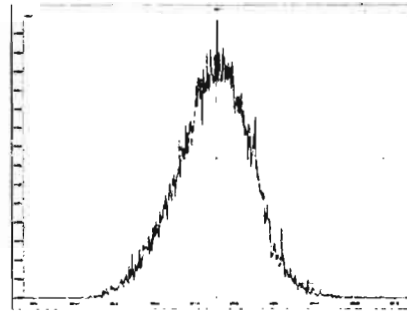
M 454.9728 R 10503



M 466.9728 R 10918



M 480.9696 R 10683



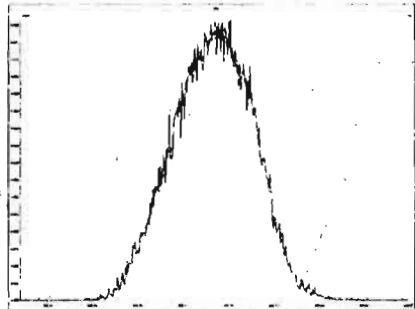
Experiment Calibration Report

MassLynx 4.1 SCN815

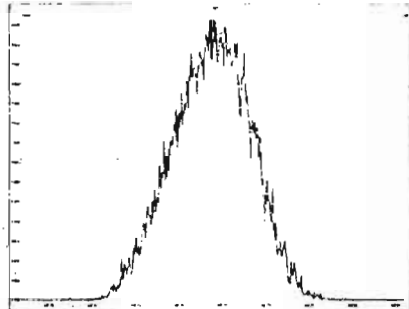
File: OCDD_DB5.exp Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, June 03, 2020 08:01:51 Pacific Daylight Time

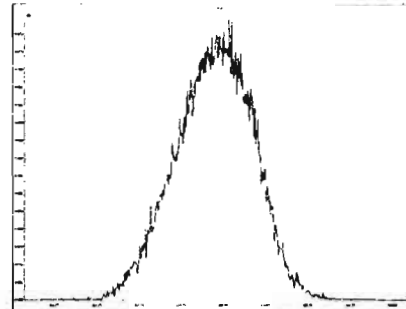
M 430.9728 R 10961



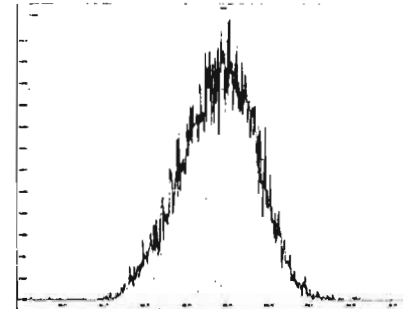
M 442.9728 R 10415



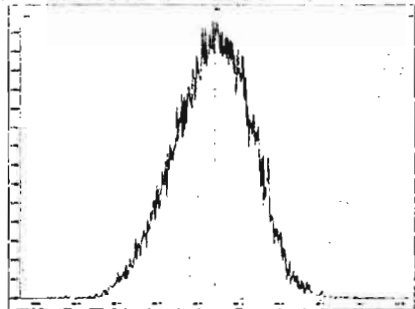
M 454.9728 R 10965



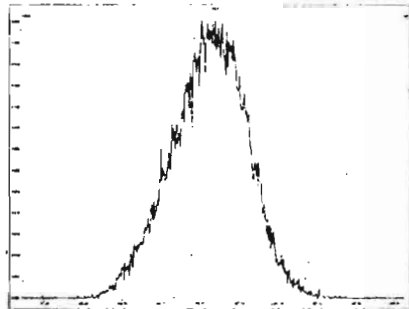
M 466.9728 R 11012



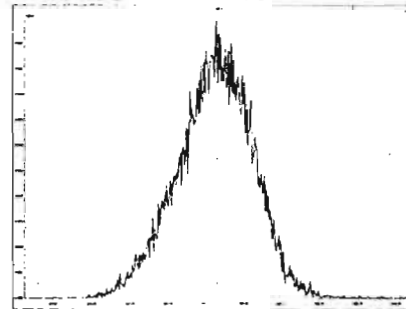
M 480.9696 R 10636



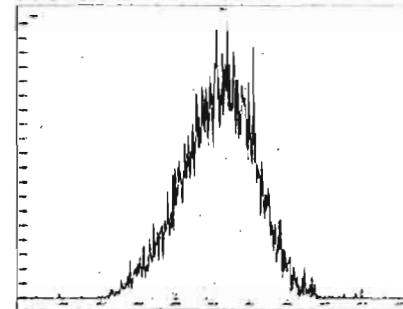
M 492.9696 R 10869



M 504.9696 R 11263



M 516.9697 R 12136



Dataset: Untitled

Last Altered: Wednesday, June 03, 2020 8:50:36 AM Pacific Daylight Time
Printed: Wednesday, June 03, 2020 8:50:58 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_1; Date: 03-Jun-2020; Time: 08:03:40; ID: ST200603R1_1 1613 CS3 19L2305; Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.47
2	2 1,2,8,9-TCDD (Last)	27.46
3	3 1,2,4,7,9-PeCDD (First)	29.24
4	4 1,2,3,8,9-PeCDD (Last)	31.83
5	5 1,2,4,6,7,9-HxCDD (First)	33.32
6	6 1,2,3,7,8,9-HxCDD (Last)	35.22
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.73
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.76
9	9 1,3,6,8-TCDF (First)	29.32
10	10 1,2,8,9-TCDF (Last)	27.61
11	11 1,3,4,6,8-PeCDF (First)	27.56
12	12 1,2,3,8,9-PeCDF (Last)	32.09
13	13 1,2,3,4,6,8 HxCDF (First)	32.78
14	14 1,2,3,7,8,9-HxCDF (Last)	35.58
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.35
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.30

Dataset: Untitled

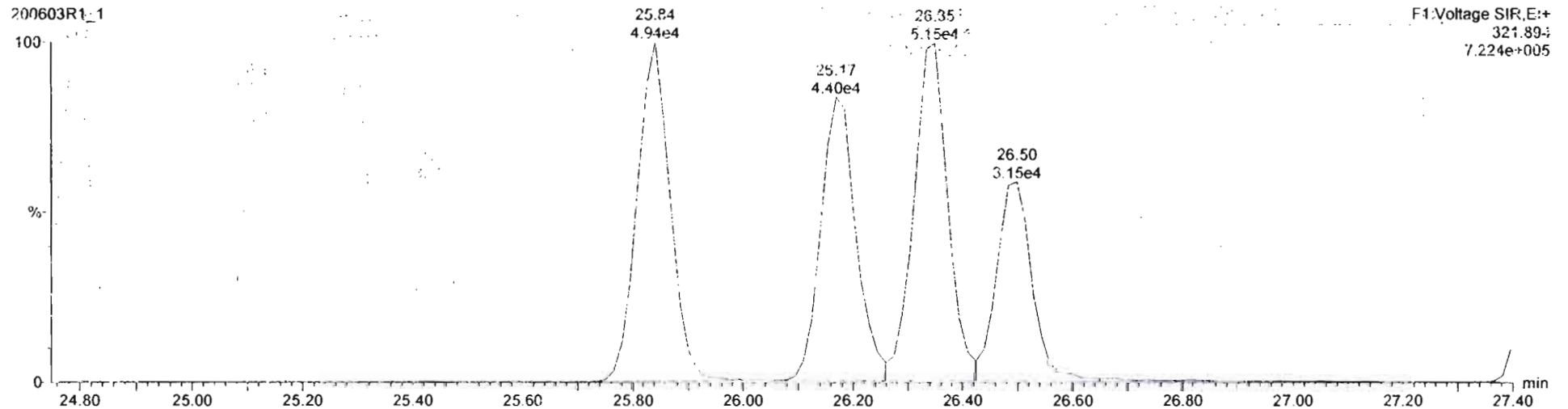
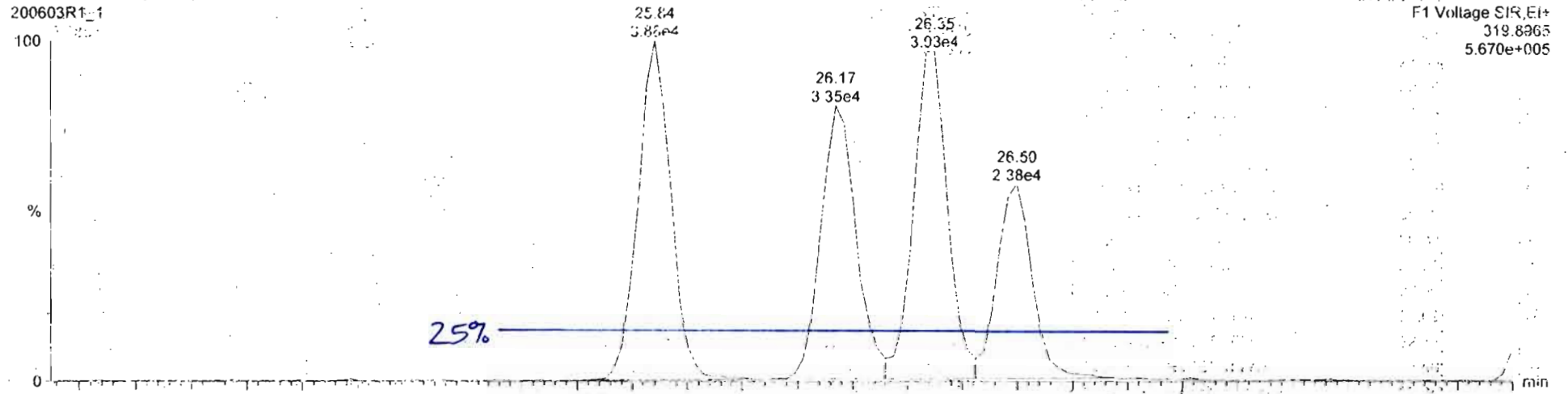
Last Altered: Wednesday, June 03, 2020 8:50:36 AM Pacific Daylight Time
Printed: Wednesday, June 03, 2020 8:50:58 AM Pacific Daylight Time

GRB 06/03/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-5-28-20.cdb 23 May 2020 16:52:08

Name: 200603R1_1 Date: 03-Jun-2020, Time: 08:03:40, ID: ST200603R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)



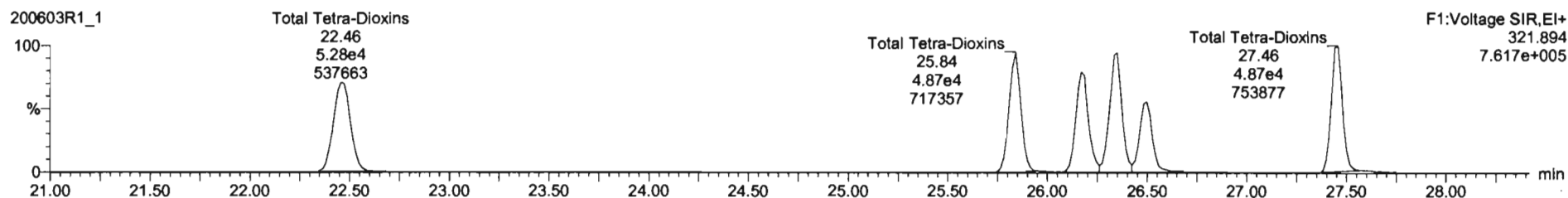
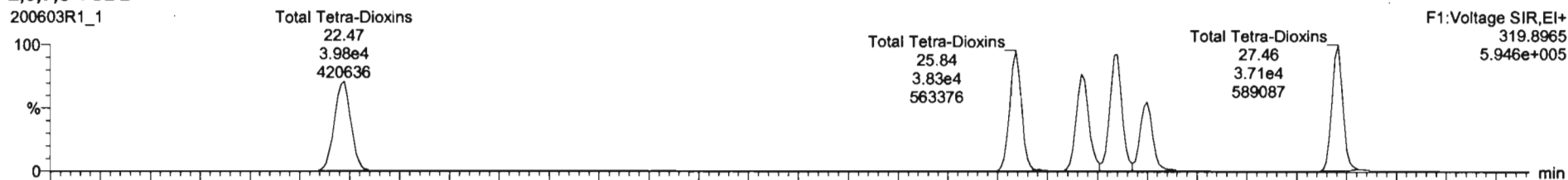
Dataset: Untitled

Last Altered: Wednesday, June 03, 2020 8:57:02 AM Pacific Daylight Time
Printed: Wednesday, June 03, 2020 8:57:10 AM Pacific Daylight Time

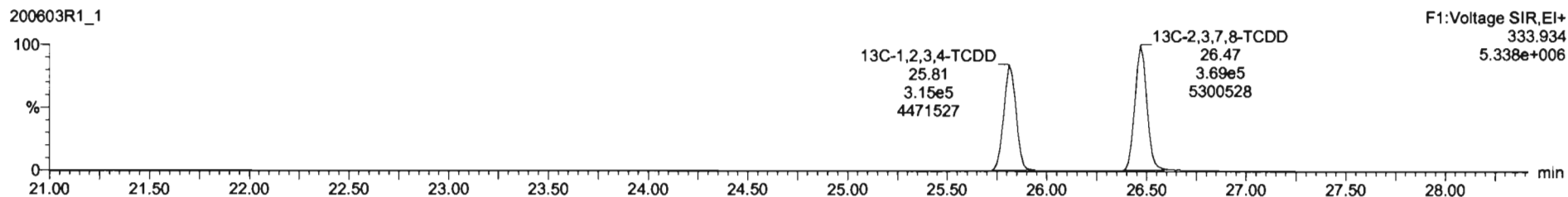
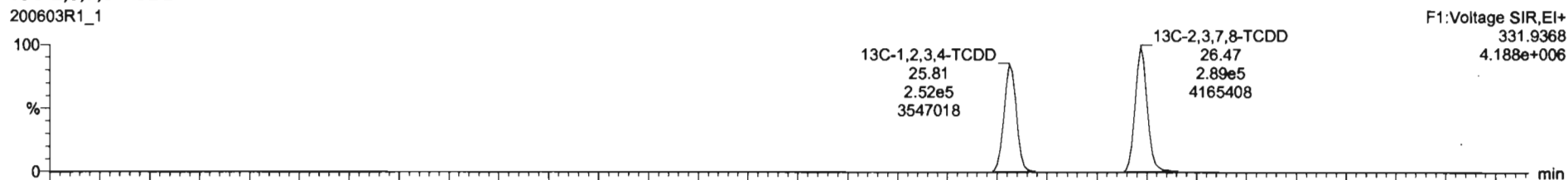
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R1_1, Date: 03-Jun-2020, Time: 08:03:40, ID: ST200603R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



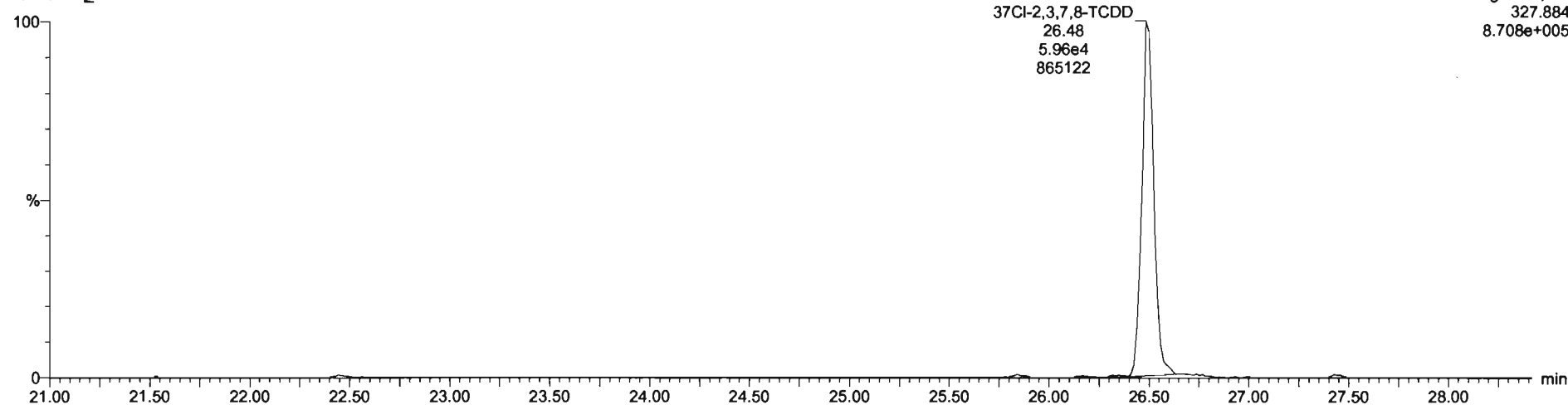
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Last Altered: Wednesday, June 03, 2020 8:57:02 AM Pacific Daylight Time
Printed: Wednesday, June 03, 2020 8:57:10 AM Pacific Daylight Time

Name: 200603R1_1, Date: 03-Jun-2020, Time: 08:03:40, ID: ST200603R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

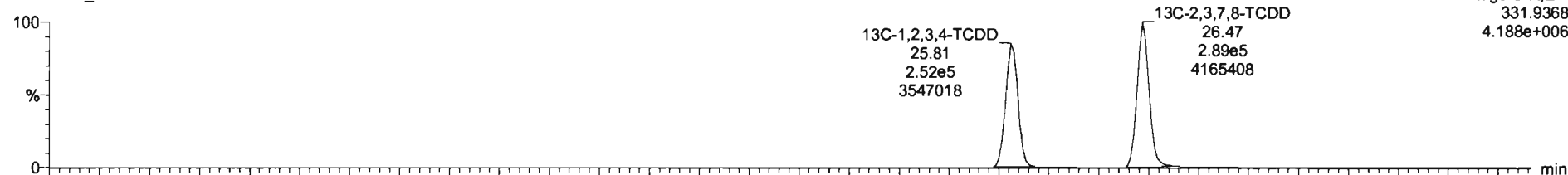
37Cl-2,3,7,8-TCDD

200603R1_1

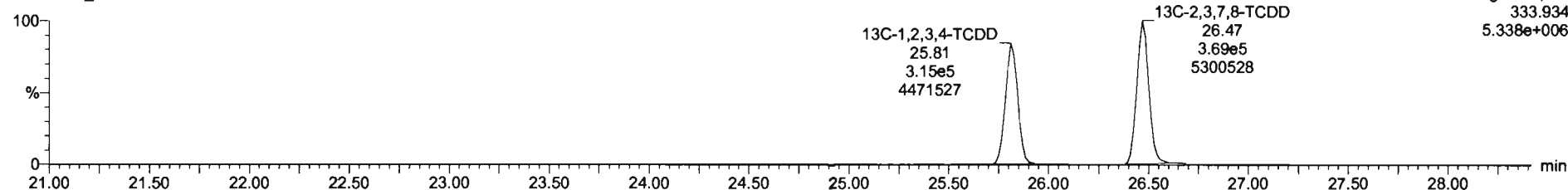


13C-1,2,3,4-TCDD

200603R1_1



200603R1_1



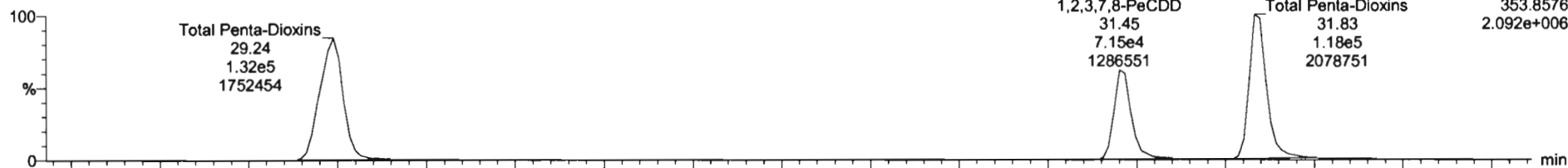
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Last Altered: Wednesday, June 03, 2020 8:57:02 AM Pacific Daylight Time
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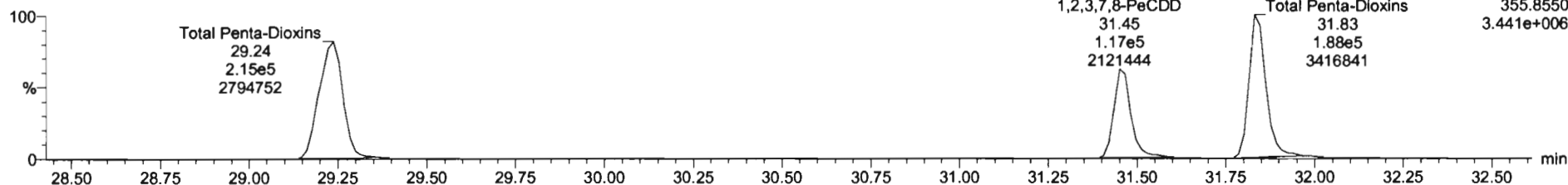
Name: 200603R1_1, Date: 03-Jun-2020, Time: 08:03:40, ID: ST200603R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200603R1_1

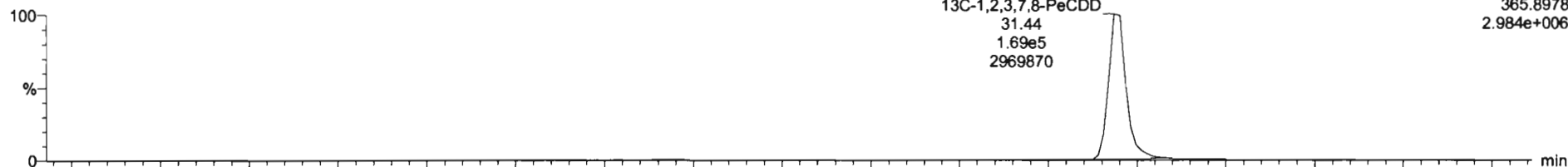


200603R1_1

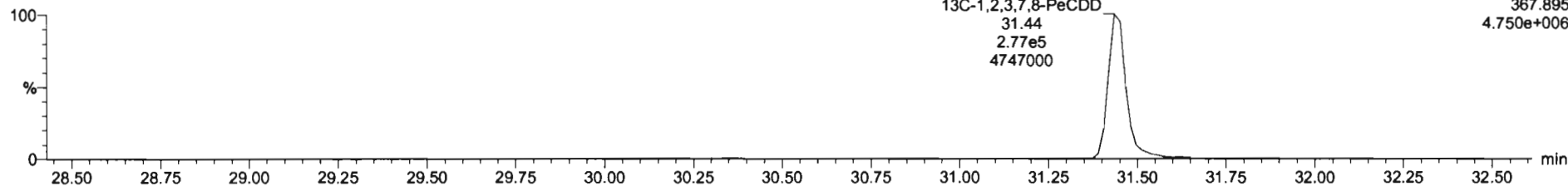


13C-1,2,3,7,8-PeCDD

200603R1_1



200603R1_1



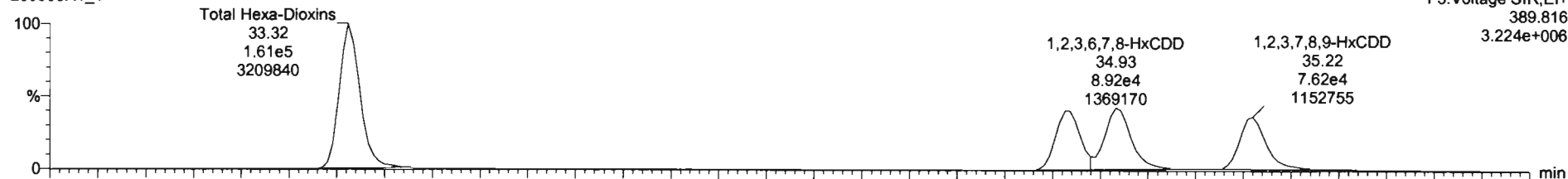
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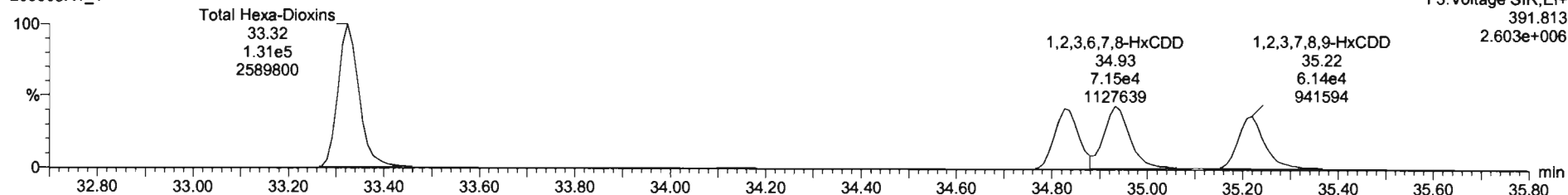
Name: 200603R1_1, Date: 03-Jun-2020, Time: 08:03:40, ID: ST200603R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200603R1_1

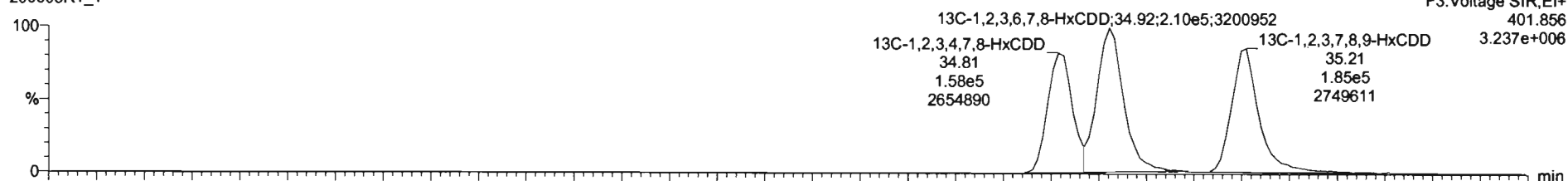


200603R1_1

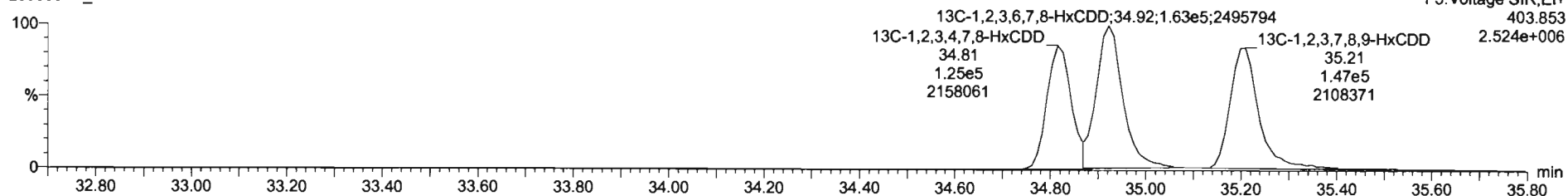


13C-1,2,3,4,7,8-HxCDD

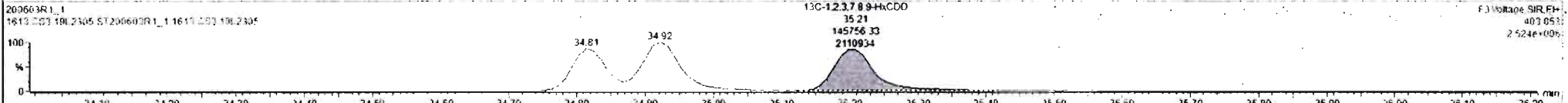
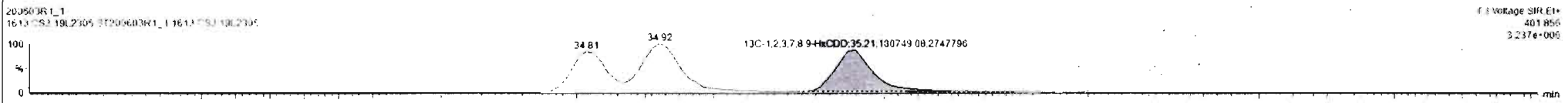
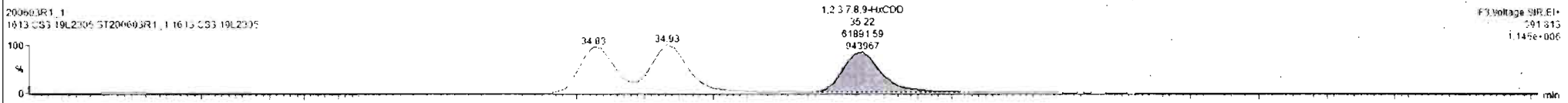
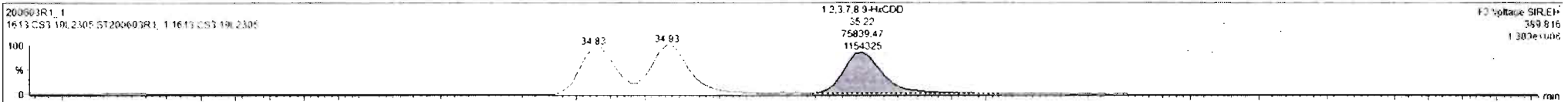
200603R1_1



200603R1_1



#	Name	Resp	IS Resp	Pred RA	RA	aly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.46e4	6.58e5	0.77	0.76	NO	0.8883	26.50	26.50	NO	1.001	1.001	9.35	93.5	NO
2	1,2,3,7,8-PeCDD	1.09e5	4.46e5	0.63	0.61	NO	0.9081	31.46	31.45	NO	1.001	1.000	46.6	93.2	NO
3	1,2,3,4,7,8-HxCDD	1.39e5	2.83e5	1.24	1.23	NO	1.0334	34.83	34.83	NO	1.000	1.000	47.5	95.0	NO
4	1,2,3,6,7,8-HxCDD	1.61e5	3.73e5	1.24	1.25	NO	0.8923	34.81	34.91	NO	1.000	1.000	48.3	98.6	NO
5	1,2,3,7,8,9-HxCDD	1.36e5	3.27e5	1.24	1.23	NO	0.8869	35.22	35.22	NO	1.000	1.000	47.6	95.1	NO
6	1,2,3,4,6,7,8-HpCDD	9.08e4	2.34e5	1.04	1.02	NO	0.8635	36.75	36.75	NO	1.000	1.001	46.8	97.7	NO
7	OCDD	2.11e5	4.66e5	0.89	0.89	NO	0.9138	41.72	41.74	NO	1.000	1.001	99.4	99.4	NO
8	2,3,7,8-TCDF	5.00e4	8.74e5	0.77	0.73	NO	0.7510	25.60	25.60	NO	1.001	1.001	9.14	91.4	NO
9	1,2,3,7,8-PeCDF	2.75e5	6.59e5	1.55	1.55	NO	0.9925	30.17	30.17	NO	1.001	1.001	47.5	94.9	NO
10	2,3,4,7,8-PeCDF	2.91e5	6.25e5	1.55	1.56	NO	0.9342	21.18	21.15	NO	1.001	1.000	48.1	96.2	NO
11	1,2,3,4,7,8-HxCDF	1.64e5	3.76e5	1.24	1.22	NO	0.8845	33.94	33.95	NO	1.000	1.000	49.4	96.8	NO
12	1,2,3,6,7,8-HxCDF	1.94e5	4.43e5	1.24	1.22	NO	0.8892	34.07	34.08	NO	1.000	1.001	49.3	98.6	NO
13	2,3,4,6,7,8-HxCDF	1.75e5	3.90e5	1.24	1.23	NO	0.9341	34.66	34.67	NO	1.001	1.001	48.1	96.2	NO
14	1,2,3,7,8,9-HxCDF	1.36e5	3.12e5	1.24	1.21	NO	0.8707	35.56	35.58	NO	1.000	1.001	50.0	100	NO
15	1,2,3,4,6,7,8-HpCDF	1.21e5	2.76e5	1.04	1.02	NO	0.8734	37.37	37.35	NO	1.001	1.001	50.2	100	NO
16	1,2,3,4,7,8,9-HpCDF	5.37e4	1.80e5	1.04	0.99	NO	1.0128	39.22	39.20	NO	1.000	1.001	51.7	103	NO
17	OCDF	2.16e5	5.51e5	0.89	0.83	NO	0.8065	41.91	41.93	NO	1.000	1.001	97.9	97.9	NO
18	13C-2,3,7,8-TCDD	8.58e5	5.87e5	0.77	0.78	NO	1.1563	26.49	26.47	NO	1.026	1.026	100	100	NO
19	13C-1,2,3,7,8-PeCDD	4.48e5	5.87e5	0.63	0.61	NO	0.8490	31.67	31.44	NO	1.227	1.216	92.7	92.7	NO
20	13C-1,2,3,4,7,8-HxCDD	2.63e5	3.76e5	1.24	1.26	NO	0.7790	34.83	34.81	NO	1.014	1.014	96.5	96.5	NO
21	13C-1,2,3,6,7,8-HxCDD	3.73e5	3.76e5	1.24	1.28	NO	1.0167	34.94	34.92	NO	1.017	1.017	97.5	97.5	NO



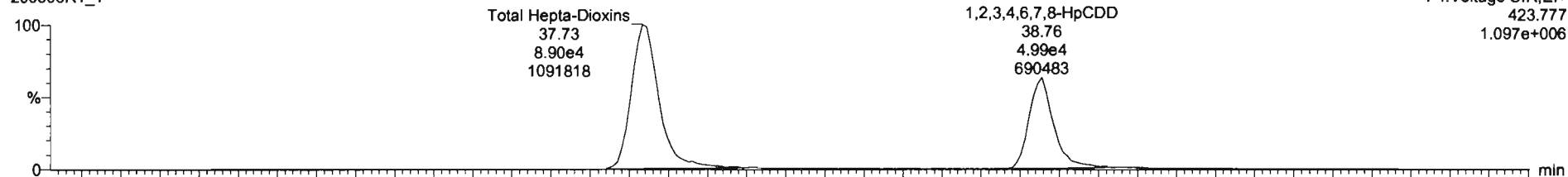
Dataset: Untitled

Last Altered: Wednesday, June 03, 2020 8:57:02 AM Pacific Daylight Time
Printed: Wednesday, June 03, 2020 8:57:10 AM Pacific Daylight Time

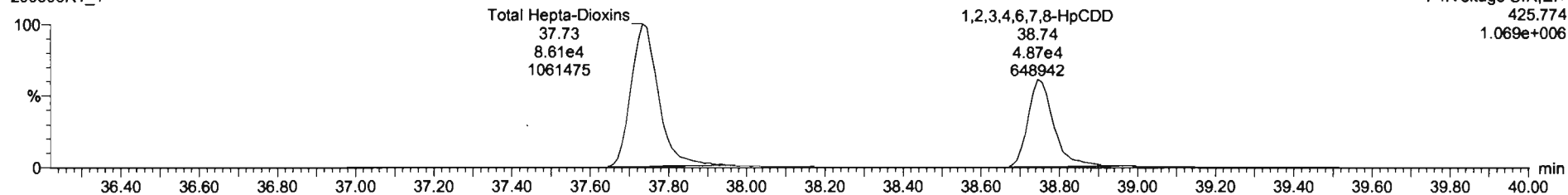
Name: 200603R1_1, Date: 03-Jun-2020, Time: 08:03:40, ID: ST200603R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200603R1_1

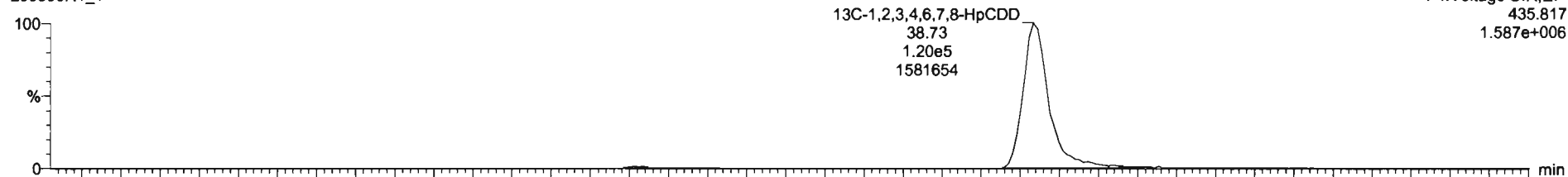


200603R1_1

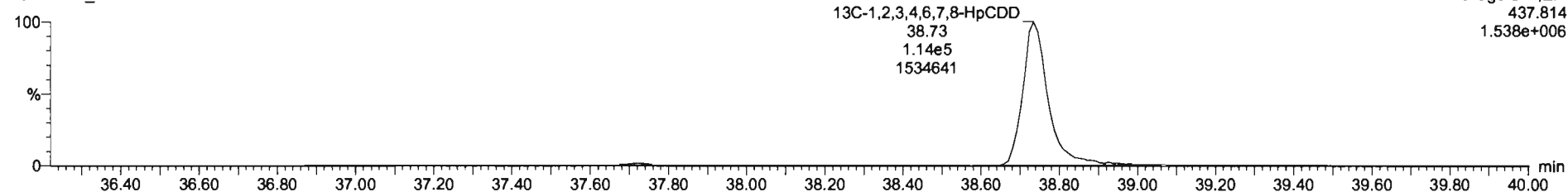


13C-1,2,3,4,6,7,8-HpCDD

200603R1_1



200603R1_1



Dataset: Untitled

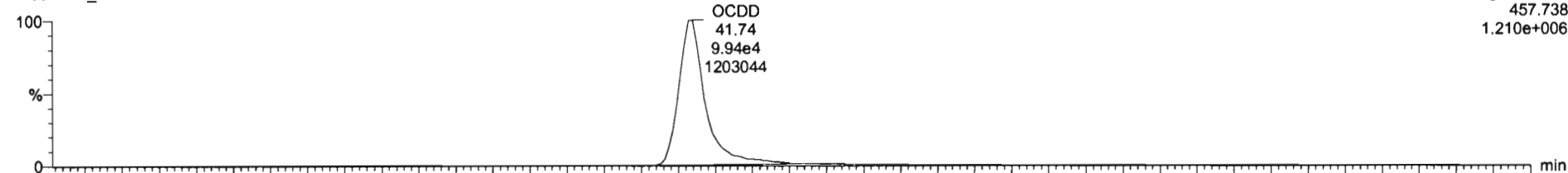
Last Altered: Wednesday, June 03, 2020 8:57:02 AM Pacific Daylight Time

Printed: Wednesday, June 03, 2020 8:57:10 AM Pacific Daylight Time

Name: 200603R1_1, Date: 03-Jun-2020, Time: 08:03:40, ID: ST200603R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

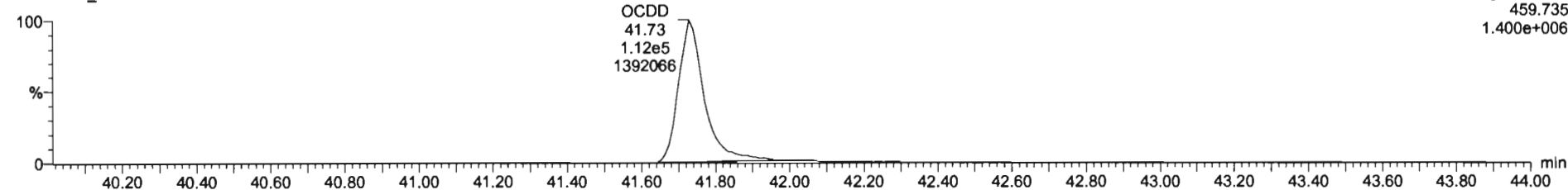
OCDD

200603R1_1



F5:Voltage SIR,EI+
457.738
1.210e+006

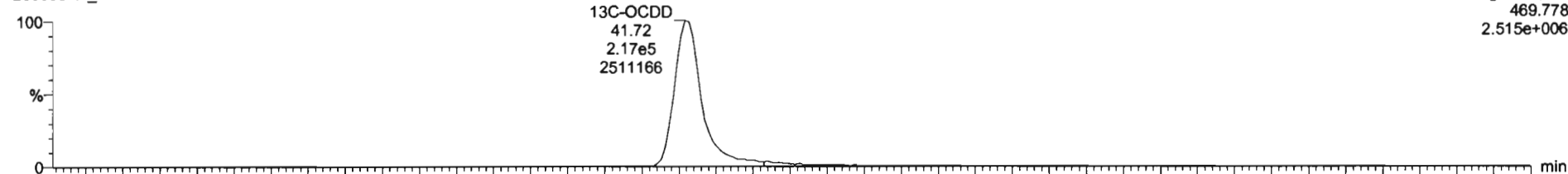
200603R1_1



F5:Voltage SIR,EI+
459.735
1.400e+006

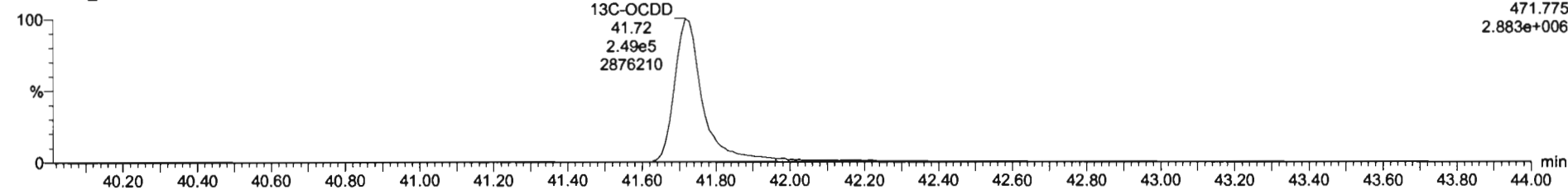
13C-OCDD

200603R1_1



F5:Voltage SIR,EI+
469.778
2.515e+006

200603R1_1



F5:Voltage SIR,EI+
471.775
2.883e+006

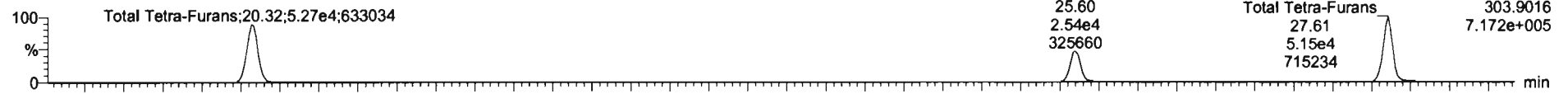
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Printed: Wednesday, June 03, 2020 8:57:10 AM Pacific Daylight Time

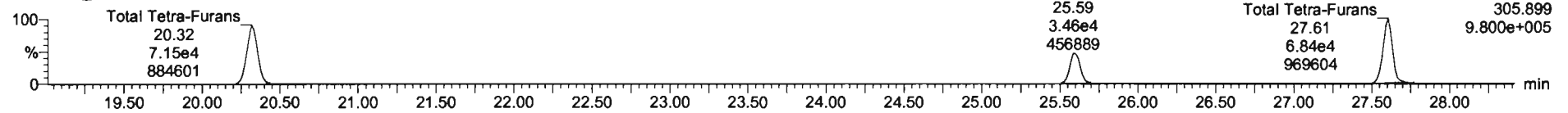
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2,3,7,8-TCDF

200603R1_1

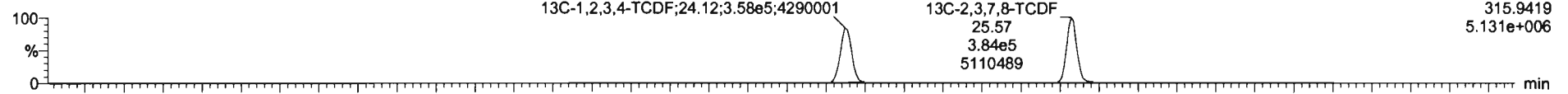


200603R1_1

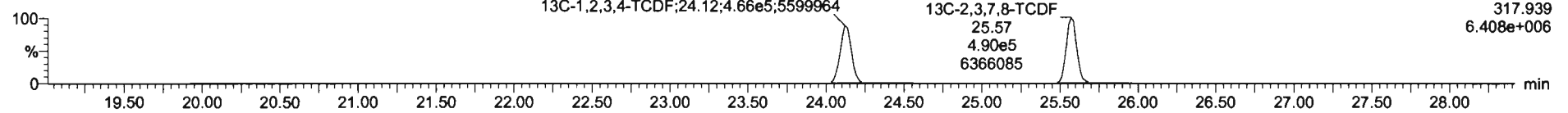


13C-2,3,7,8-TCDF

200603R1_1

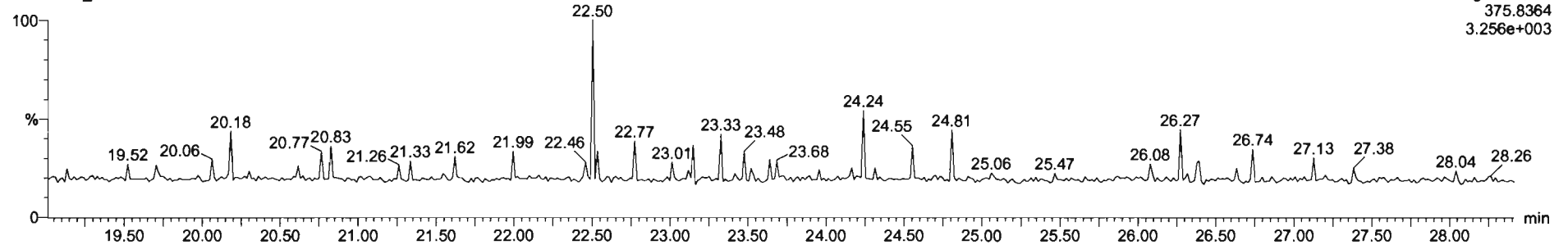


200603R1_1



DPE1

200603R1_1



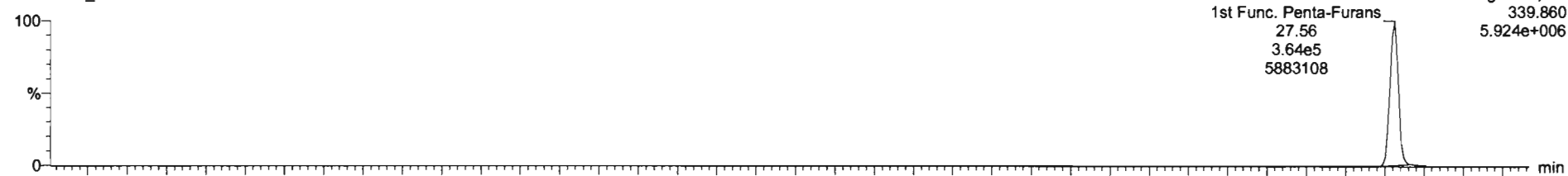
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Printed: Wednesday, June 03, 2020 8:57:10 AM Pacific Daylight Time

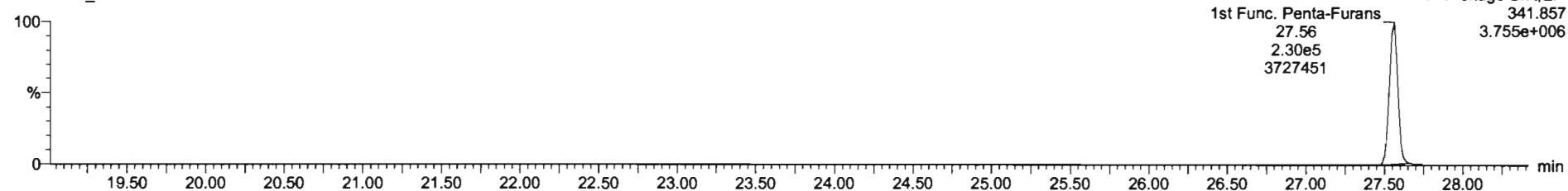
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1st Func. Penta-Furans

200603R1_1

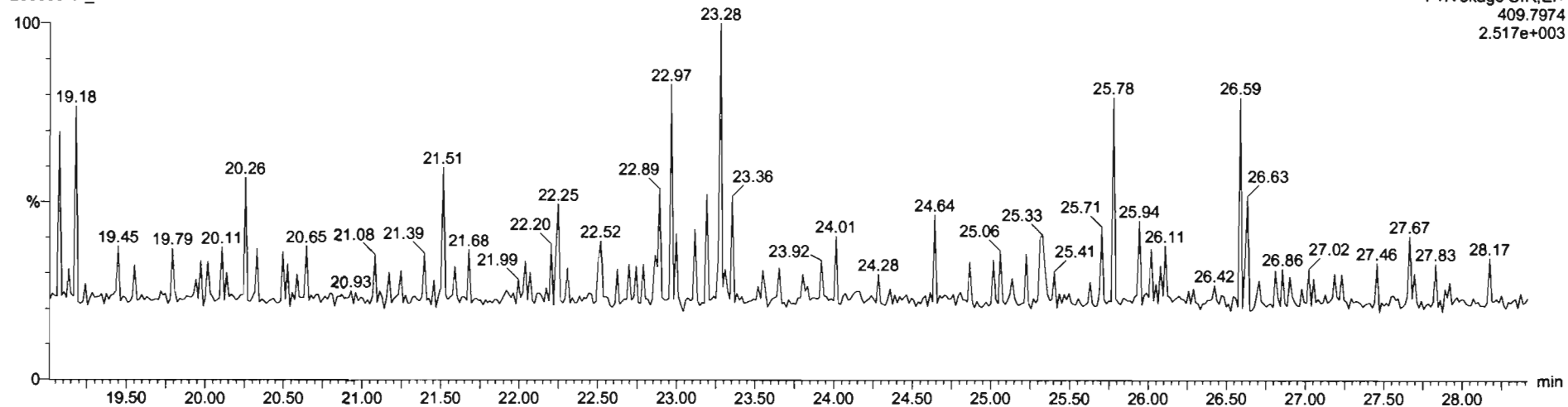


200603R1_1



DPE6

200603R1_1



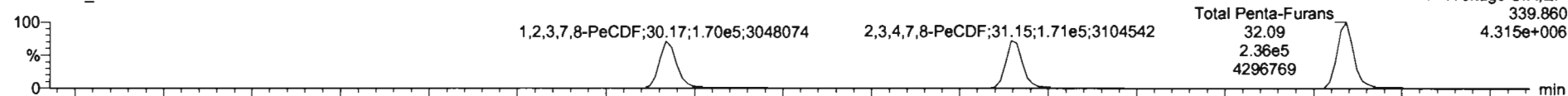
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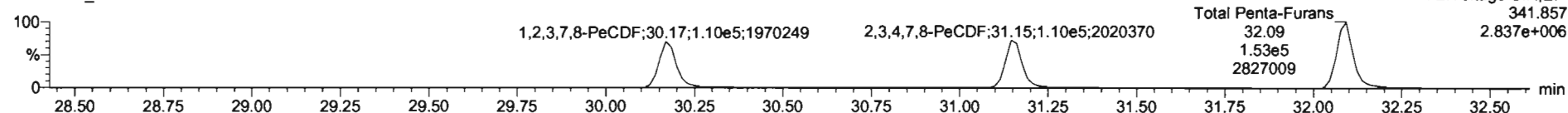
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1,2,3,7,8-PeCDF

200603R1_1

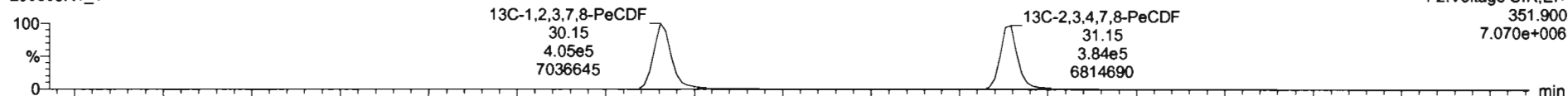


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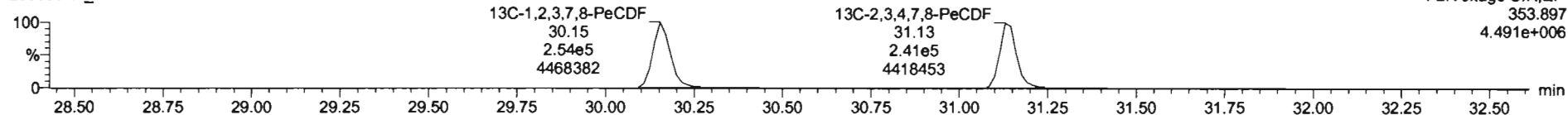


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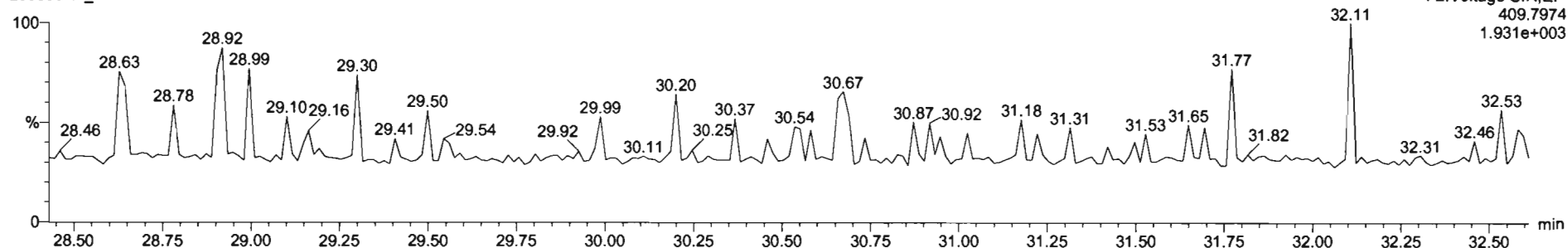


200603R1_1



DPE2

200603R1_1

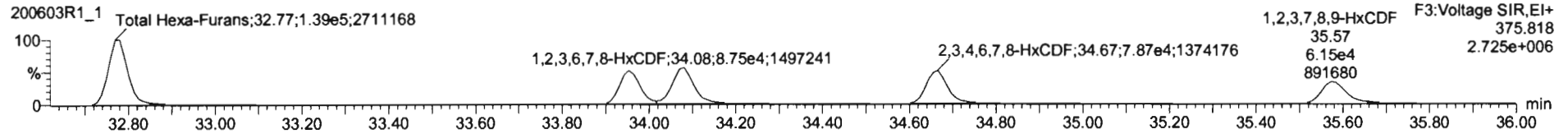
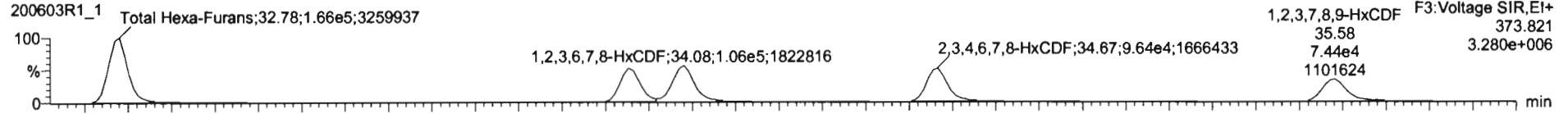


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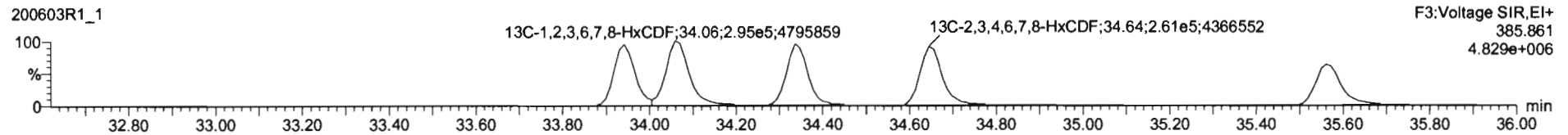
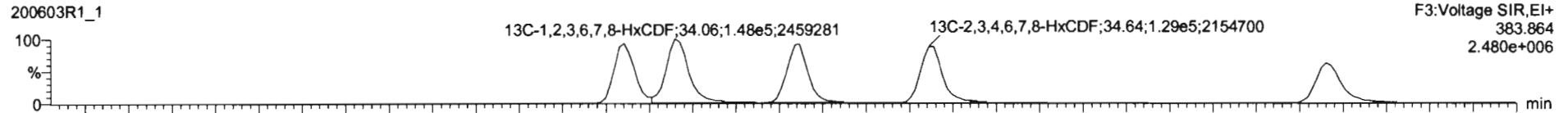
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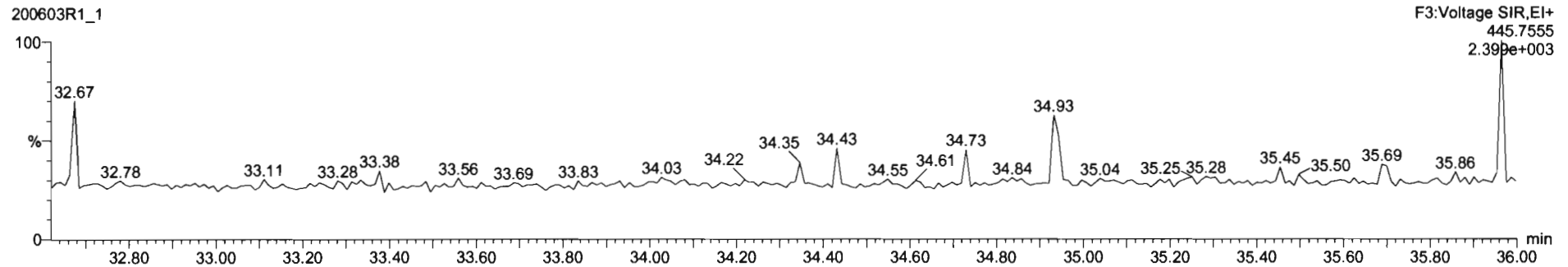
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13C-1,2,3,4,7,8-HxCDF



DPE3



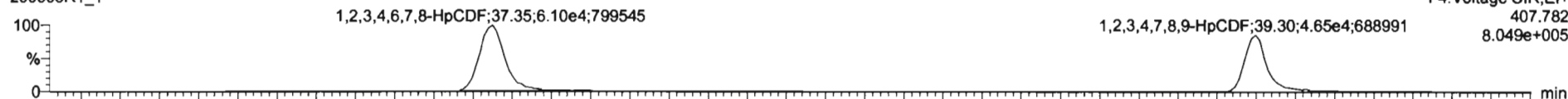
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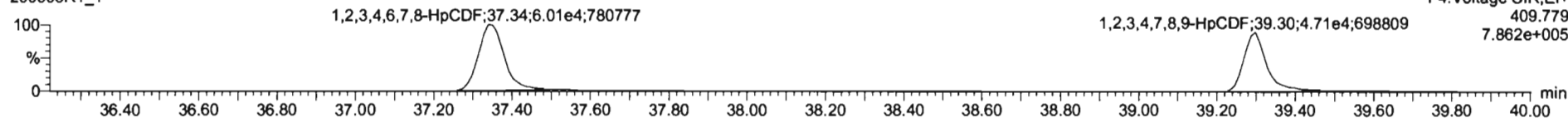
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1,2,3,4,6,7,8-HpCDF

200603R1_1

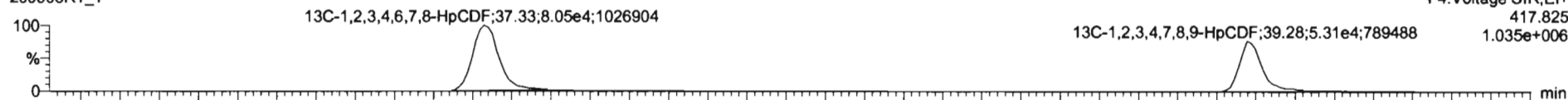


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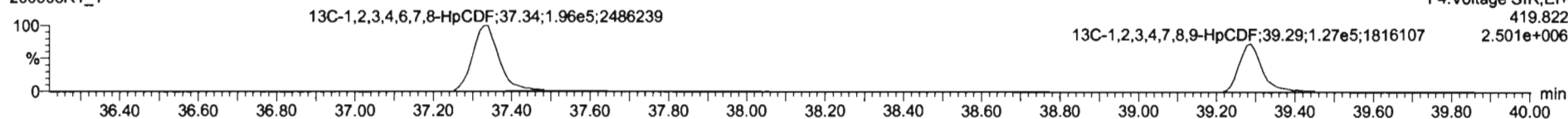


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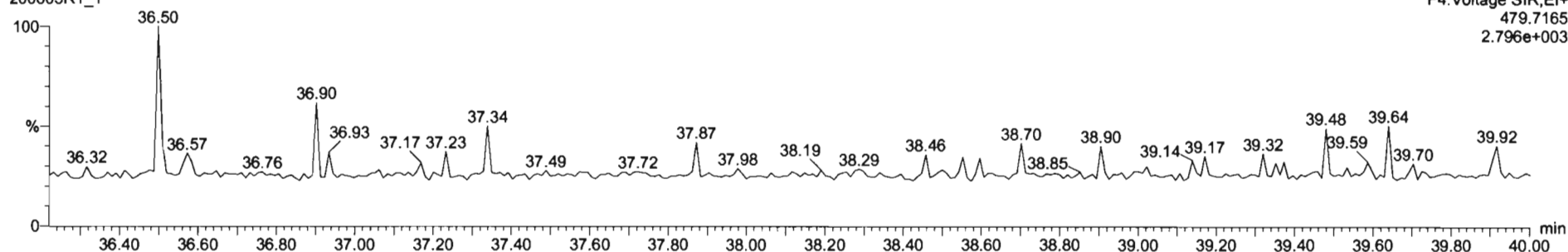


200603R1_1



DPE4

200603R1_1



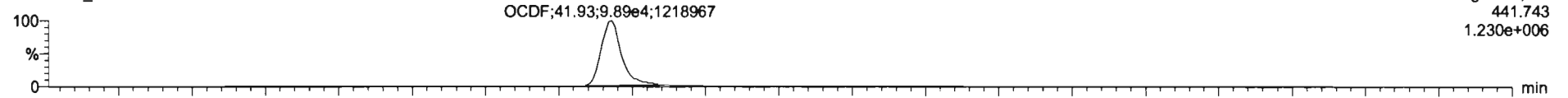
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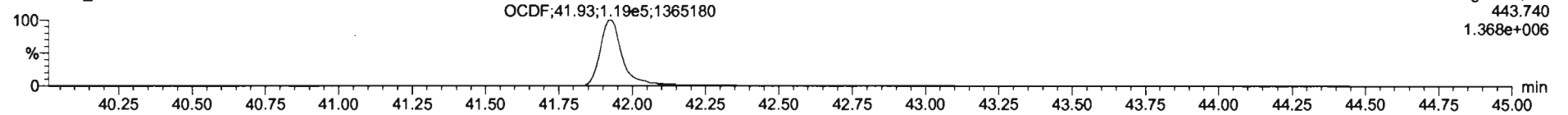
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OCDF

200603R1_1

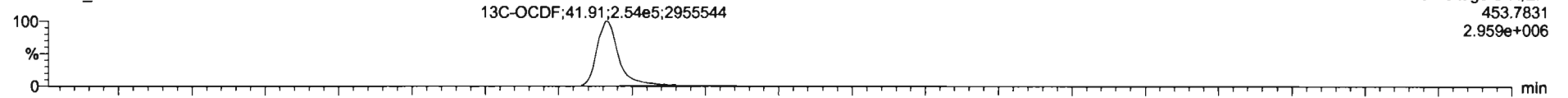


200603R1_1

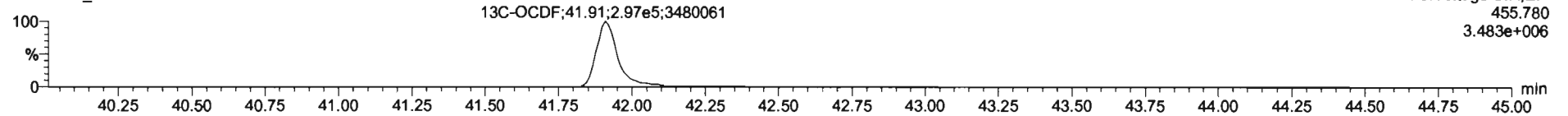


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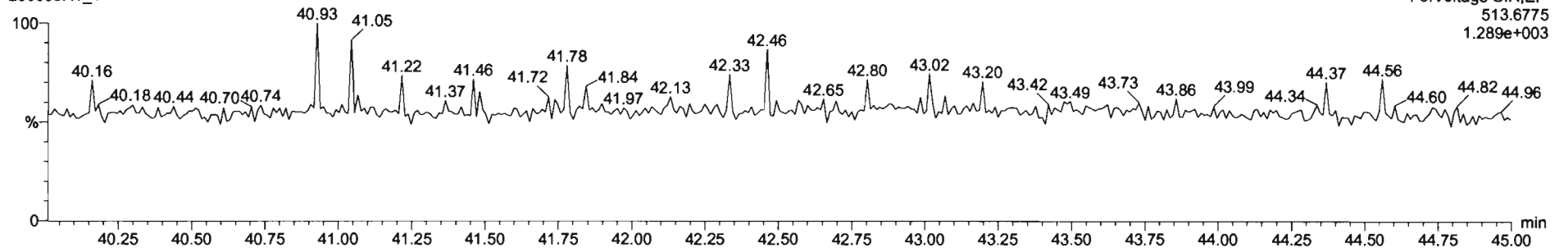


200603R1_1



DPE5

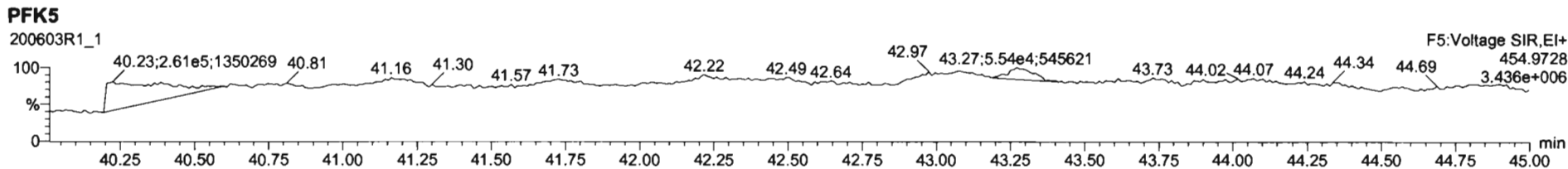
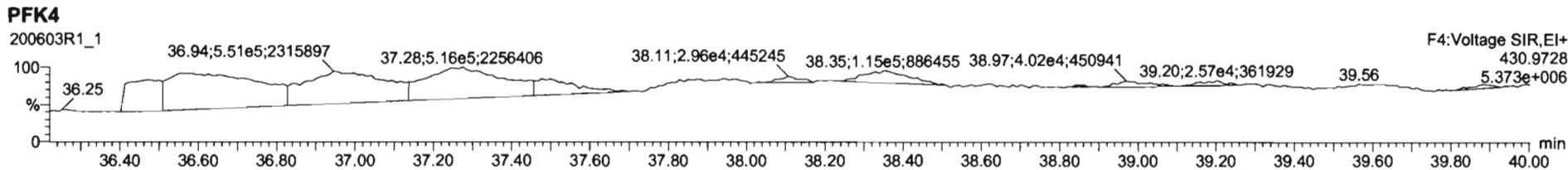
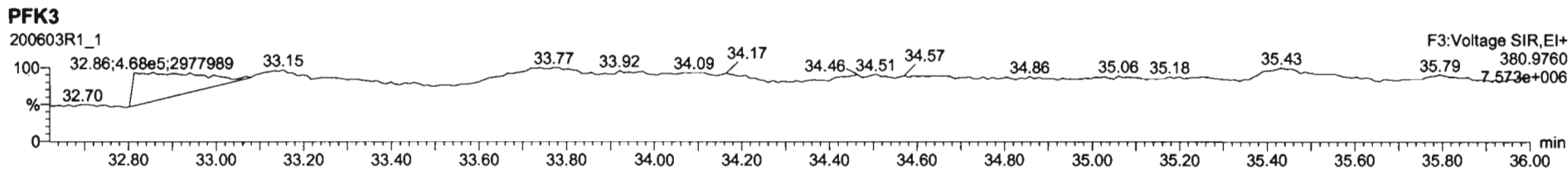
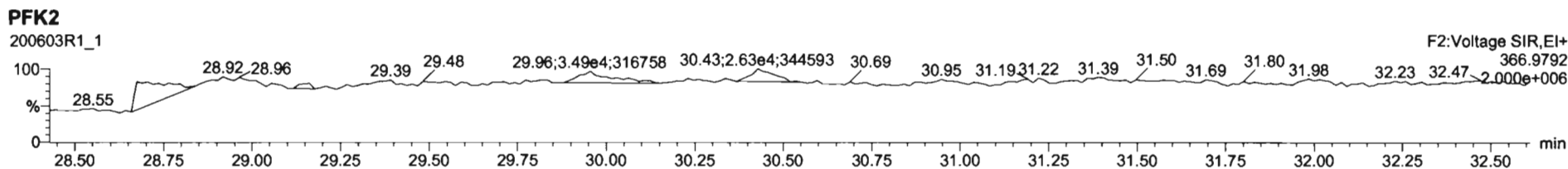
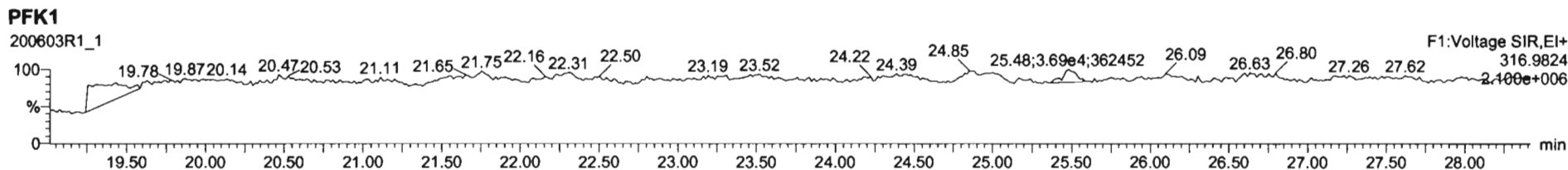
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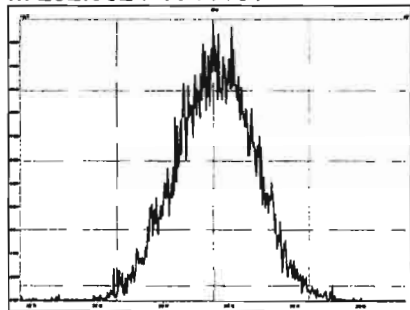
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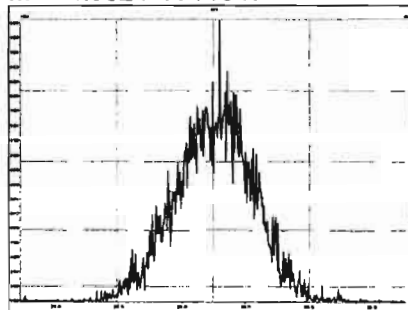


Printed: Wednesday, June 03, 2020 19:52:39 Pacific Daylight Time

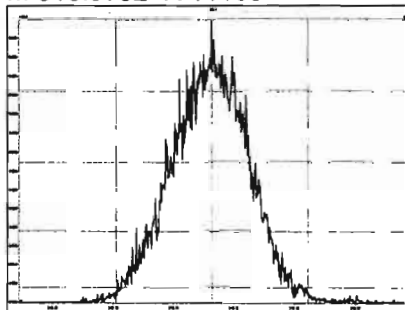
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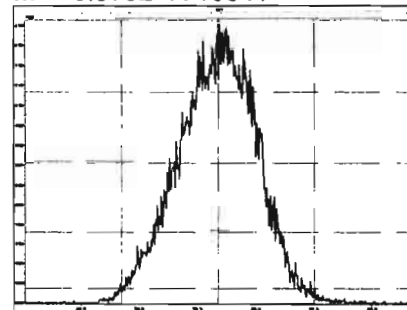
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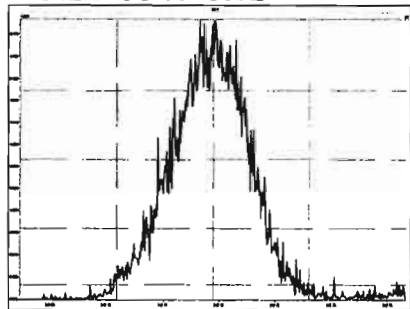
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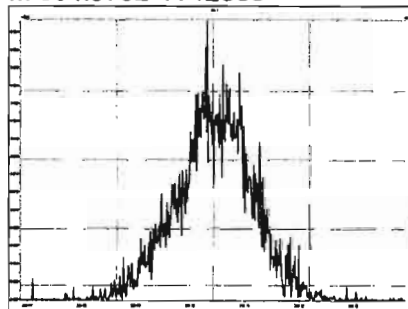
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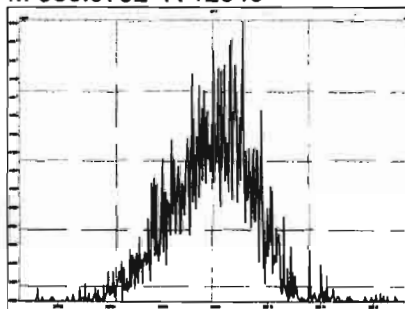
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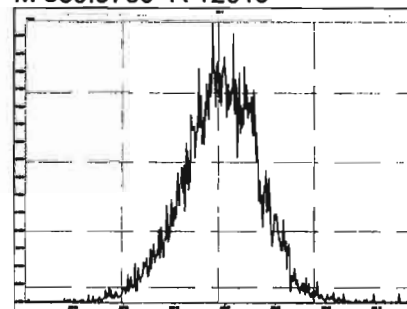
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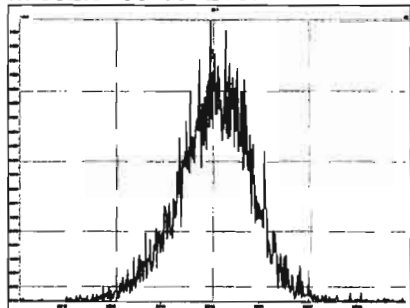
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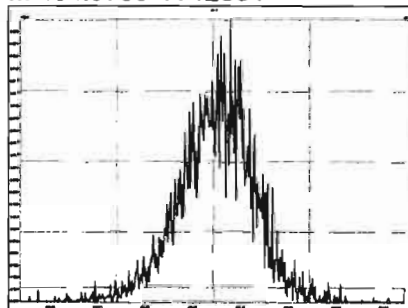
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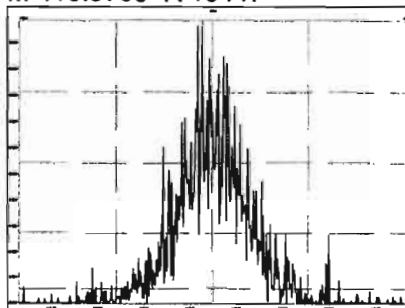
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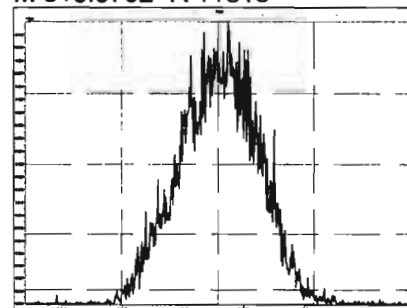
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M 416.9760 R 16447

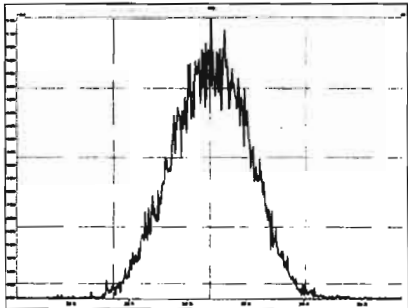


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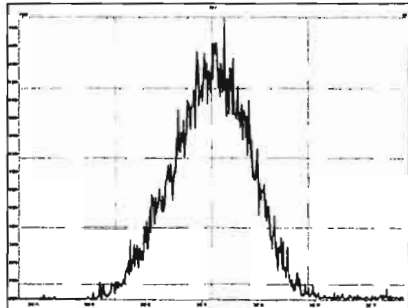


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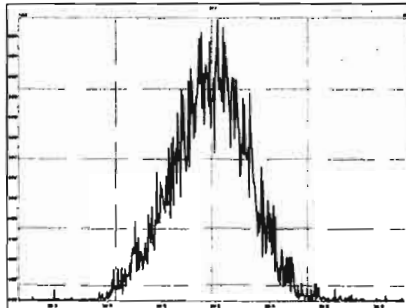
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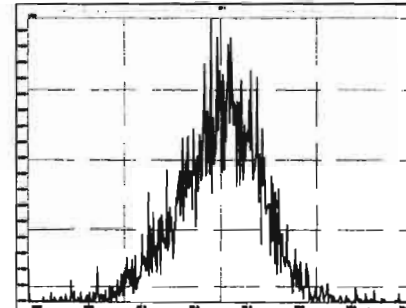
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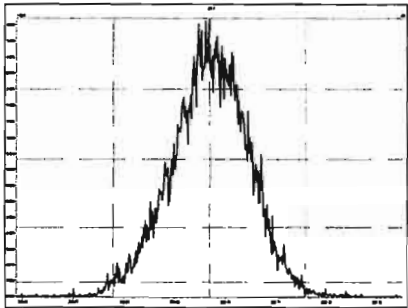
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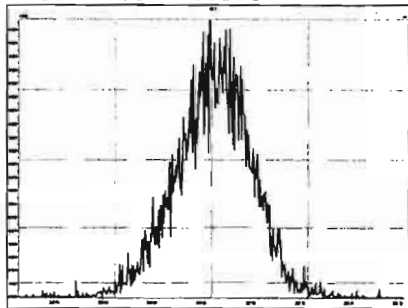
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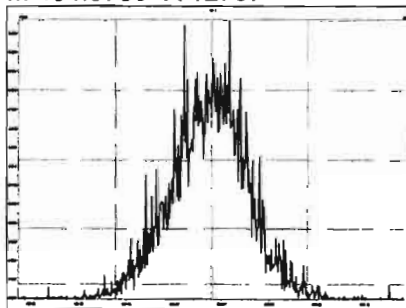
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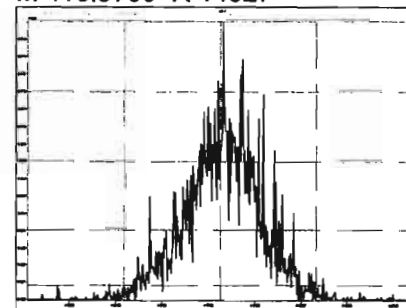
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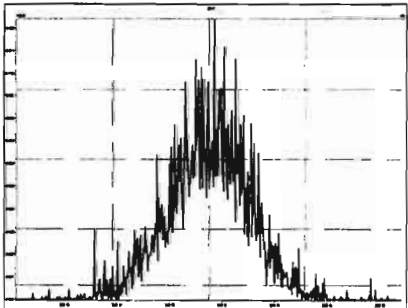
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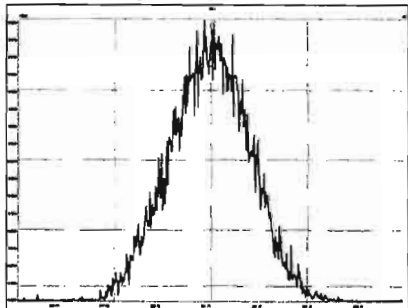
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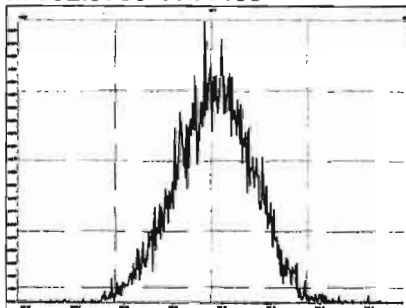
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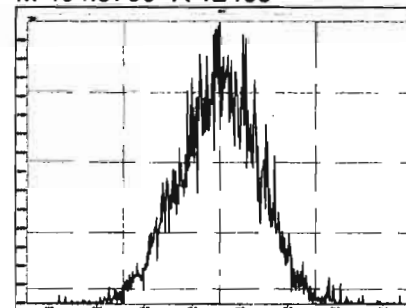
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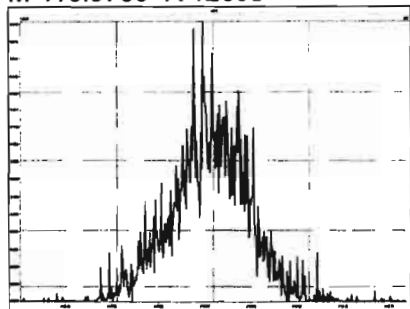


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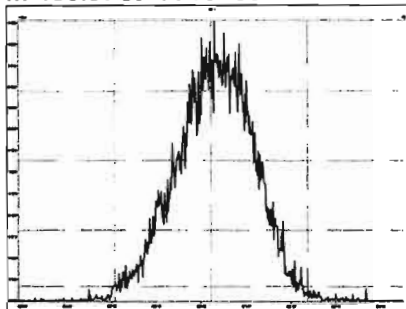


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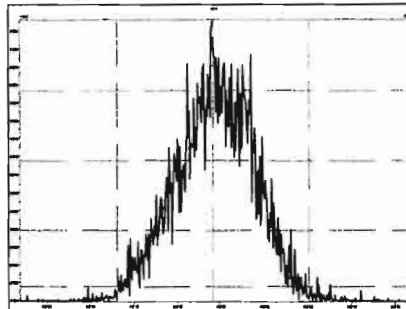
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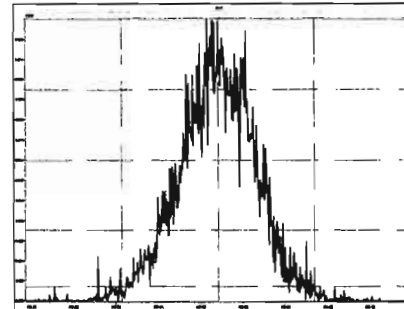
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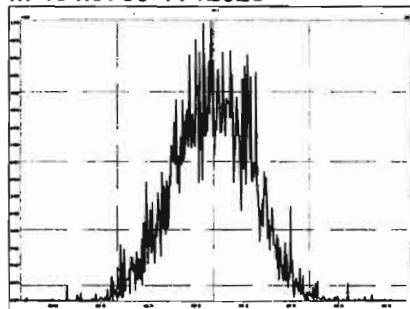
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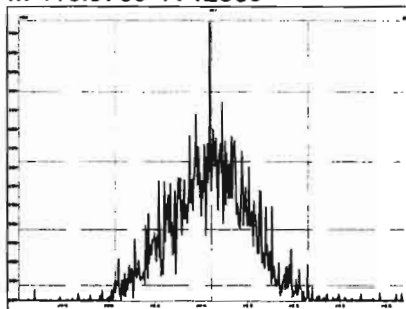
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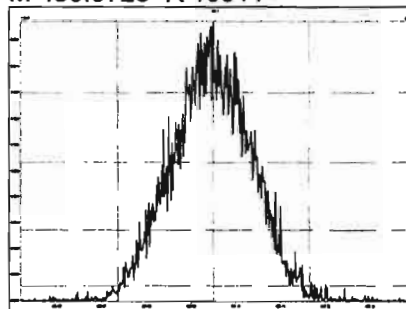
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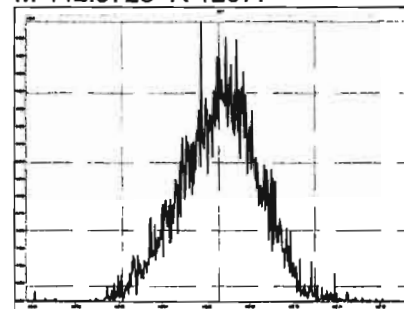
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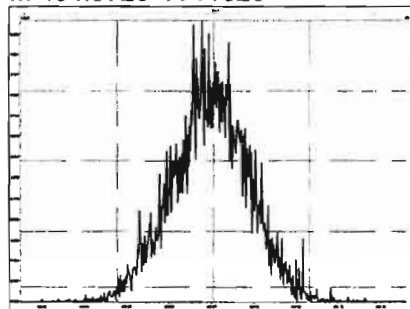
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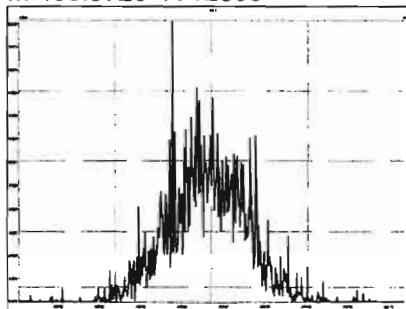
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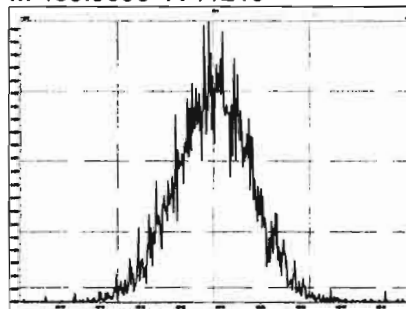
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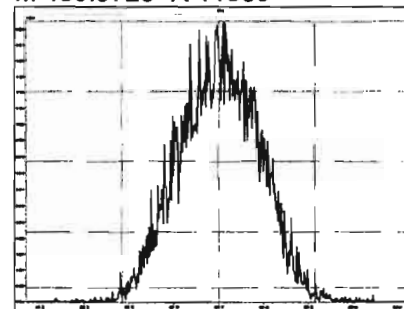
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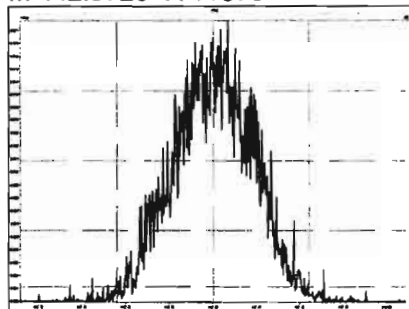


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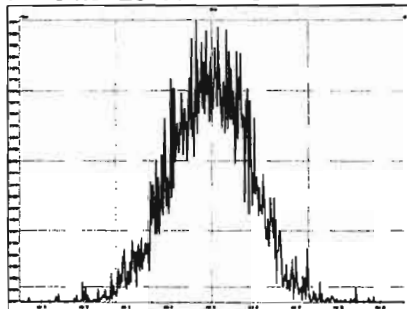


Printed: Wednesday, June 03, 2020 19:52:39 Pacific Daylight Time

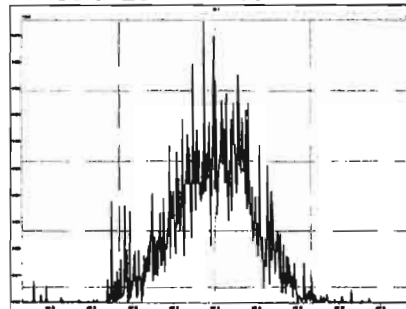
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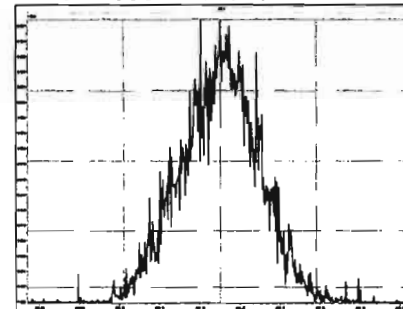
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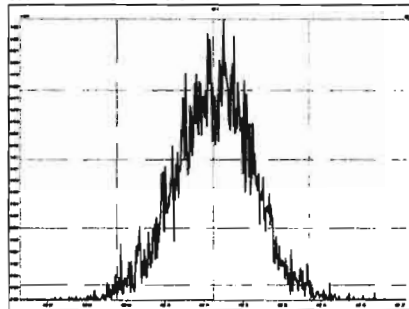
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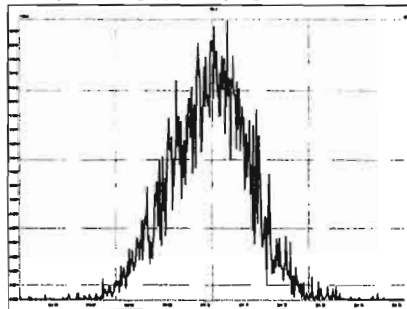
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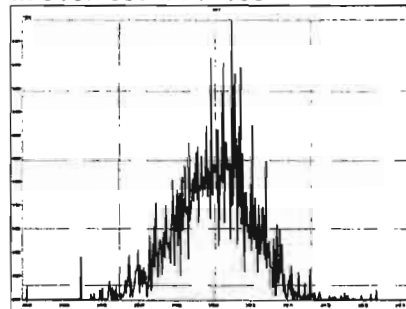
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M 504.9696 R 12056



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Dataset: U:\VG12.PRO\Results\200603R2\200603R2-2.qld

Last Altered: Thursday, June 04, 2020 07:27:37 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:27:50 Pacific Daylight Time

GPB 06/04/2020

CT 06/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_2, Date: 03-Jun-2020, Time: 20:38:58, ID: ST200603R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	5.86e4	7.10e5	0.75	NO	0.888	26.53	26.53	NO	1.001	1.001	9.2963	93.0	NO
2	2 1,2,3,7,8-PeCDD	2.07e5	4.79e5	0.61	NO	0.908	31.49	31.48	NO	1.001	1.000	47.605	95.2	NO
3	3 1,2,3,4,7,8-HxCDD	1.64e5	3.20e5	1.22	NO	1.03	34.85	34.85	NO	1.000	1.000	49.543	99.1	NO
4	4 1,2,3,6,7,8-HxCDD	1.74e5	4.21e5	1.22	NO	0.892	34.94	34.95	NO	1.000	1.000	46.185	92.4	NO
5	5 1,2,3,7,8,9-HxCDD	1.55e5	3.65e5	1.22	NO	0.887	35.23	35.23	NO	1.000	1.000	48.045	96.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.13e5	2.62e5	1.01	NO	0.864	38.77	38.77	NO	1.000	1.000	50.122	100	NO
7	7 OCDD	2.34e5	5.36e5	0.88	NO	0.914	41.72	41.73	NO	1.000	1.000	95.732	95.7	NO
8	8 2,3,7,8-TCDF	6.61e4	9.35e5	0.72	NO	0.751	25.64	25.63	NO	1.001	1.001	9.4154	94.2	NO
9	9 1,2,3,7,8-PeCDF	3.21e5	7.34e5	1.55	NO	0.893	30.21	30.20	NO	1.001	1.001	49.072	98.1	NO
10	10 2,3,4,7,8-PeCDF	3.17e5	6.99e5	1.52	NO	0.935	31.19	31.18	NO	1.001	1.000	48.591	97.2	NO
11	11 1,2,3,4,7,8-HxCDF	1.89e5	4.19e5	1.21	NO	0.884	33.95	33.97	NO	1.000	1.001	50.968	102	NO
12	12 1,2,3,6,7,8-HxCDF	2.11e5	4.90e5	1.22	NO	0.889	34.09	34.09	NO	1.000	1.000	48.339	96.7	NO
13	13 2,3,4,6,7,8-HxCDF	2.01e5	4.36e5	1.20	NO	0.934	34.70	34.68	NO	1.001	1.000	49.415	98.8	NO
14	14 1,2,3,7,8,9-HxCDF	1.51e5	3.51e5	1.23	NO	0.871	35.58	35.59	NO	1.000	1.000	49.483	99.0	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.38e5	3.18e5	0.99	NO	0.873	37.39	37.36	NO	1.001	1.000	49.815	99.6	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.08e5	2.04e5	1.00	NO	1.01	39.30	39.31	NO	1.000	1.000	52.404	105	NO
17	17 OCDF	2.43e5	6.04e5	0.87	NO	0.806	41.91	41.92	NO	1.000	1.000	99.979	100	NO
18	18 13C-2,3,7,8-TCDD	7.10e5	6.10e5	0.78	NO	1.16	26.54	26.50	NO	1.026	1.025	100.61	101	NO
19	19 13C-1,2,3,7,8-PeCDD	4.79e5	6.10e5	0.63	NO	0.849	31.73	31.47	NO	1.227	1.217	92.385	92.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.20e5	4.23e5	1.27	NO	0.779	34.84	34.84	NO	1.014	1.014	96.941	96.9	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.21e5	4.23e5	1.25	NO	1.02	34.95	34.94	NO	1.017	1.017	97.905	97.9	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.65e5	4.23e5	1.25	NO	0.903	35.23	35.22	NO	1.025	1.025	95.464	95.5	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.62e5	4.23e5	1.04	NO	0.689	38.75	38.76	NO	1.128	1.128	89.778	89.8	NO
24	24 13C-OCDD	5.36e5	4.23e5	0.89	NO	0.652	41.77	41.72	NO	1.216	1.214	194.06	97.0	NO
25	25 13C-2,3,7,8-TCDF	9.35e5	8.86e5	0.77	NO	1.06	25.58	25.62	NO	0.989	0.991	99.633	99.6	NO
26	26 13C-1,2,3,7,8-PeCDF	7.34e5	8.86e5	1.60	NO	0.838	30.11	30.18	NO	1.165	1.167	98.807	98.8	NO
27	27 13C-2,3,4,7,8-PeCDF	6.99e5	8.86e5	1.59	NO	0.817	31.06	31.16	NO	1.202	1.205	96.541	96.5	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.19e5	4.23e5	0.50	NO	1.01	33.97	33.95	NO	0.989	0.988	98.201	98.2	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.90e5	4.23e5	0.52	NO	1.17	34.10	34.08	NO	0.992	0.992	99.205	99.2	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.36e5	4.23e5	0.51	NO	1.02	34.67	34.67	NO	1.009	1.009	100.87	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.51e5	4.23e5	0.50	NO	0.860	35.57	35.58	NO	1.035	1.036	96.598	96.6	NO

Dataset: U:\VG12.PRO\Results\200603R2\200603R2-2.qld

Last Altered: Thursday, June 04, 2020 07:27:37 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:27:50 Pacific Daylight Time

Name: 200603R2_2, Date: 03-Jun-2020, Time: 20:38:58, ID: ST200603R2_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	3.18e5	4.23e5	0.42	NO	0.774	37.32	37.35	NO	1.086	1.087	96.986	97.0	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.04e5	4.23e5	0.42	NO	0.521	39.35	39.30	NO	1.145	1.144	92.452	92.5	NO
34	13C-OCDF	6.04e5	4.23e5	0.86	NO	0.746	41.95	41.91	NO	1.221	1.220	191.33	95.7	NO
35	37Cl-2,3,7,8-TCDD	6.04e4	6.10e5			1.04	26.57	26.53	NO	1.028	1.026	9.5498	95.5	NO
36	13C-1,2,3,4-TCDD	6.10e5	6.10e5	0.79	NO	1.00	25.89	25.85	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	8.86e5	8.86e5	0.78	NO	1.00	24.36	24.16	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	4.23e5	4.23e5	0.51	NO	1.00	34.42	34.36	NO	1.000	1.000	100.00	100	YES <i>OK</i>

Dataset: Untitled

Last Altered: Thursday, June 04, 2020 07:28:00 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:28:14 Pacific Daylight Time

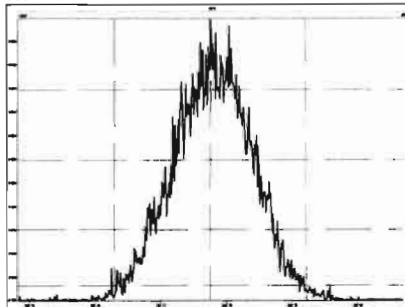
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Callbration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Compound name: 2,3,7,8-TCDD

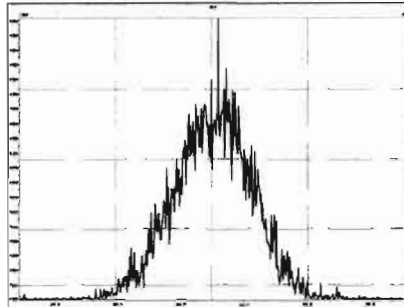
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1	200603R2_1	SOLVENT BLANK	03-Jun-20	19:52:42
2	200603R2_2	ST200603R2_1 1613 CS3 19L2305	03-Jun-20	20:38:58
3	200603R2_3	SOLVENT BLANK	03-Jun-20	21:25:10
4	200603R2_4	2000965-12 PDI-163SC-A-02-03-200425 17.35	03-Jun-20	22:11:24
5	200603R2_5	BOE0020-DUP1 Duplicate 17.34	03-Jun-20	22:57:38
6	200603R2_6	2000965-13 PDI-163SC-A-03-04-200425 17.24	03-Jun-20	23:43:52
7	200603R2_7	2000965-14 PDI-163SC-A-04-05-200425 15.92	04-Jun-20	00:30:08
8	200603R2_8	2000965-15 PDI-163SC-A-05-06-200425 17.23	04-Jun-20	01:16:23
9	200603R2_9	2000965-16 PDI-163SC-A-06-07-200425 16.29	04-Jun-20	02:02:36
10	200603R2_10	2000965-17 PDI-163SC-A-07-08-200425 17.25	04-Jun-20	02:48:50

Printed: Wednesday, June 03, 2020 19:52:39 Pacific Daylight Time

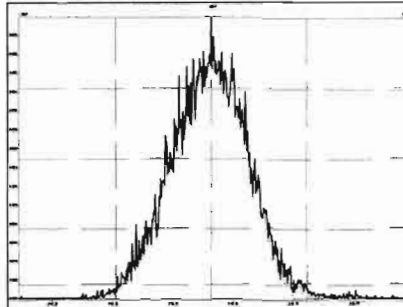
M 292.9824 R 11161



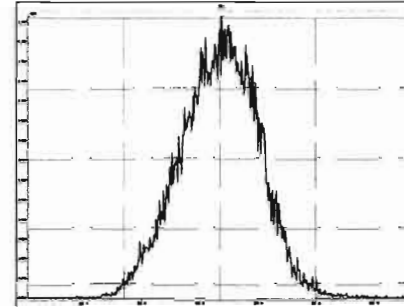
M 304.9824 R 11547



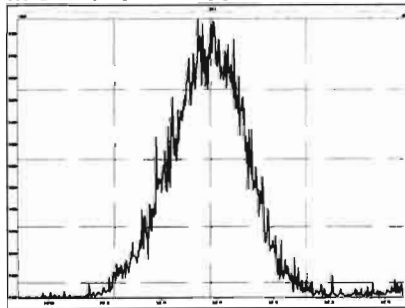
M 318.9792 R 11160



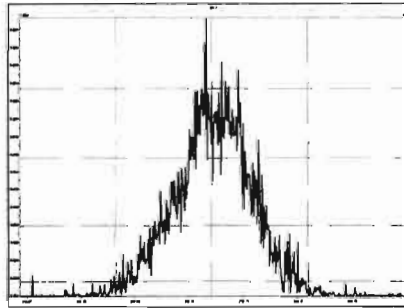
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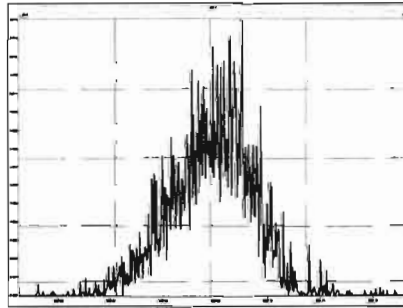
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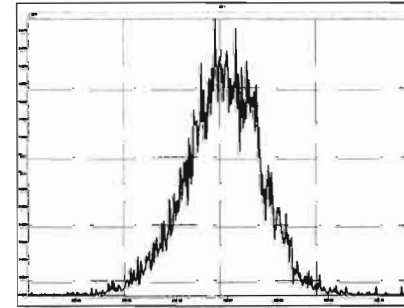
M 354.9792 R 12533



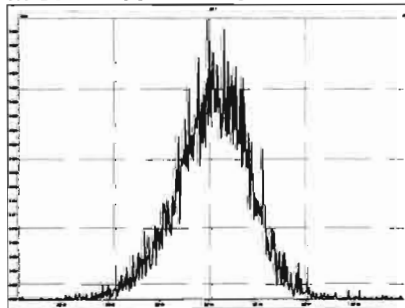
M 366.9792 R 12840



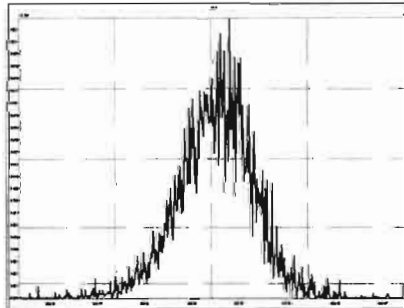
M 380.9760 R 12019



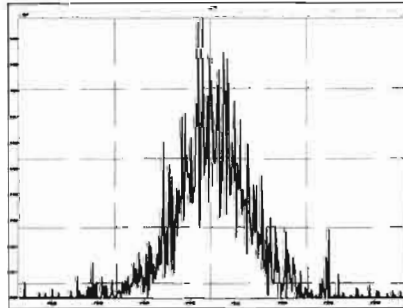
M 392.9760 R 12107



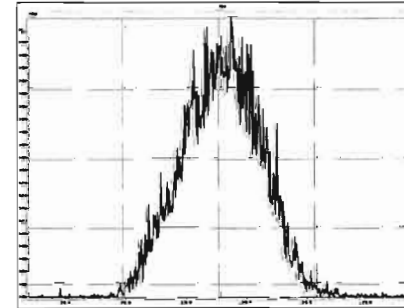
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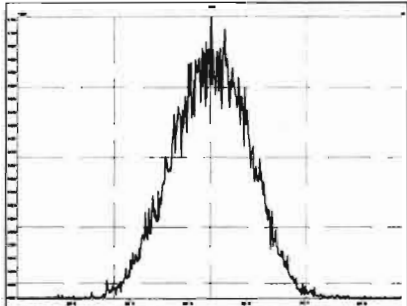
M 416.9760 R 16447



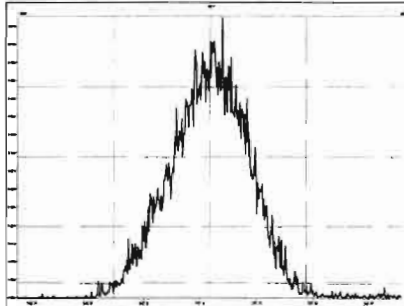
M 318.9792 R 11313



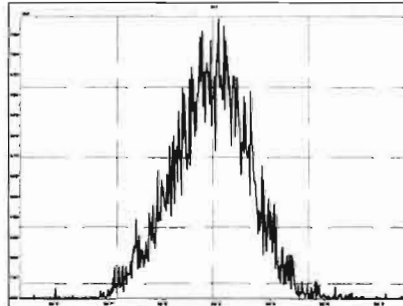
M 330.9792 R 11295



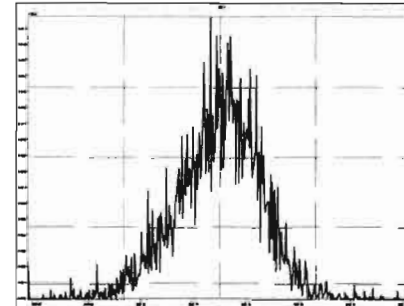
M 342.9792 R 11263



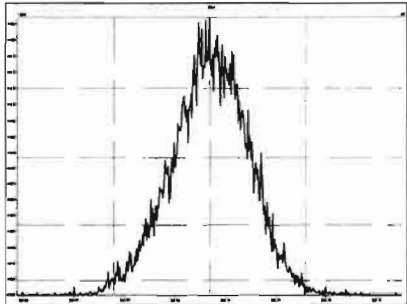
M 354.9792 R 11520



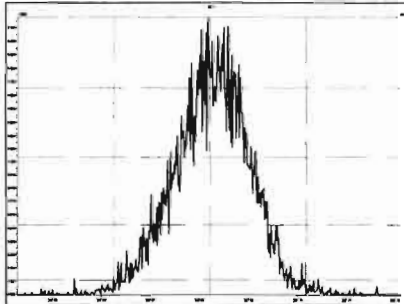
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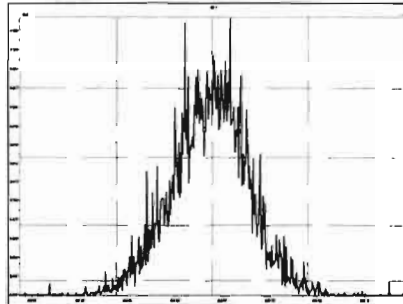
M 380.9760 R 11023



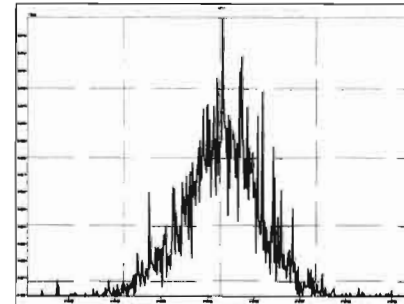
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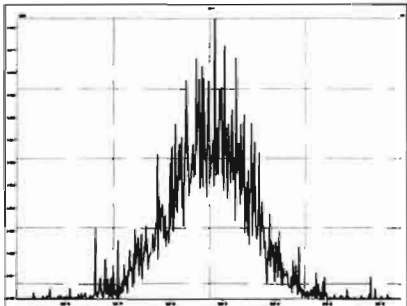
M 404.9760 R 12787



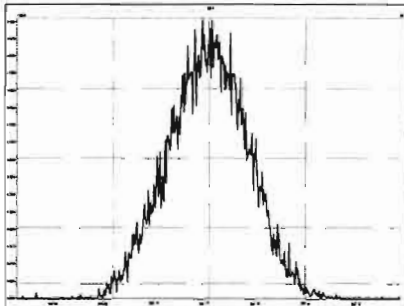
M 416.9760 R 14327



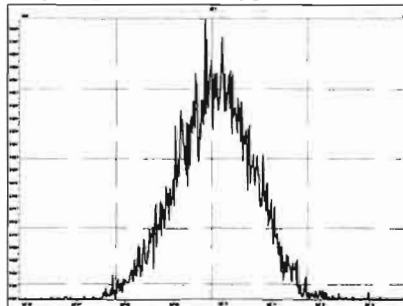
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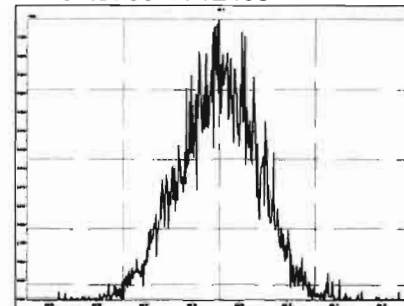
M 380.9760 R 10593



M 392.9760 R 11468

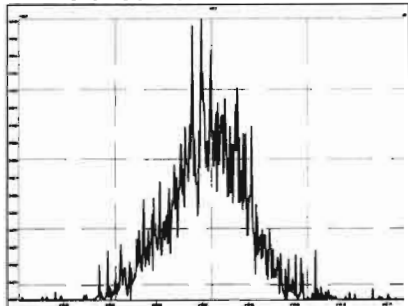


M 404.9760 R 12468

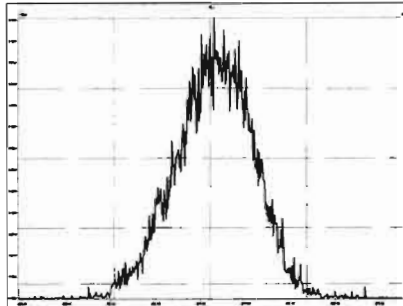


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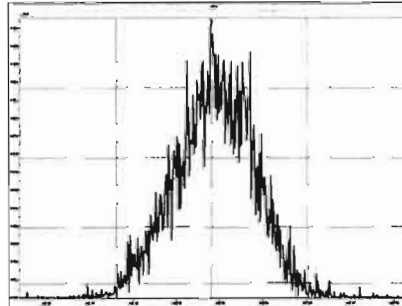
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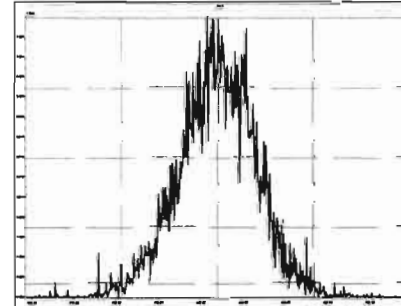
M 430.9728 R 10760



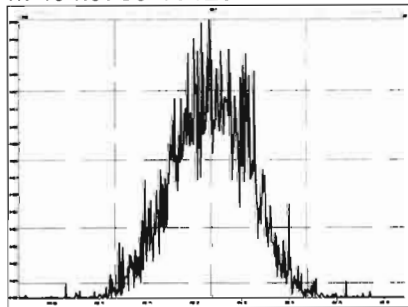
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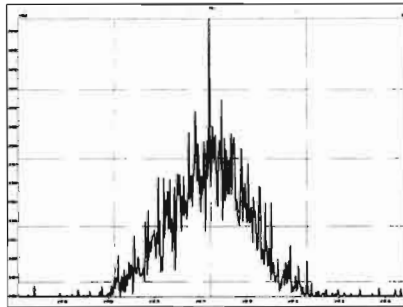
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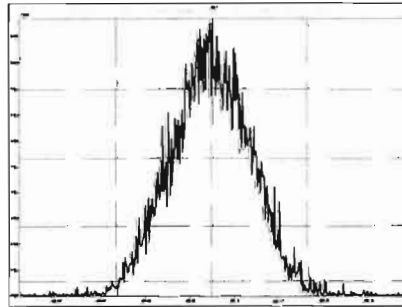
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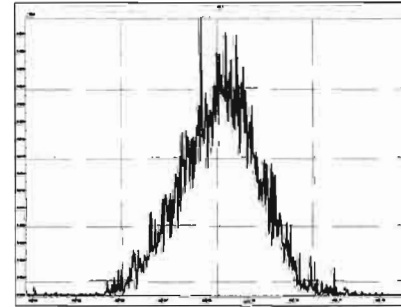
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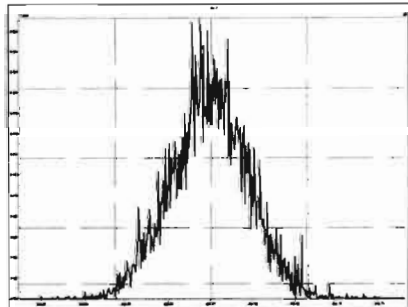
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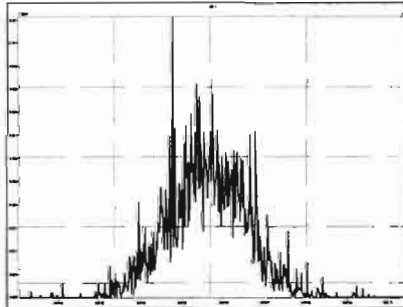
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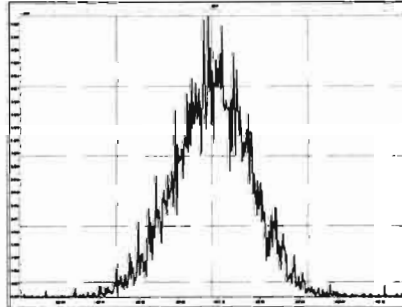
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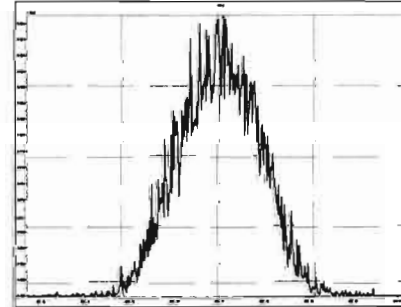
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M 480.9696 R 11210

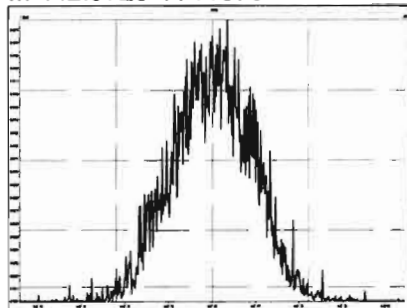


M 430.9728 R 11339

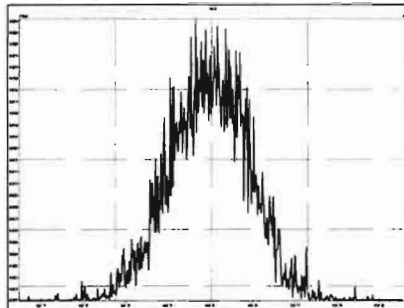


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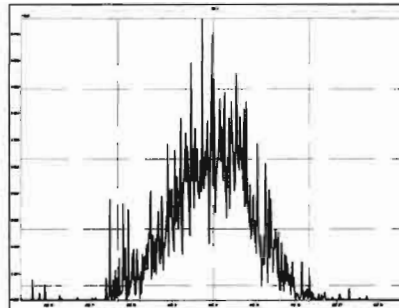
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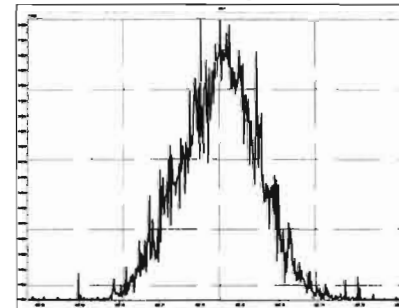
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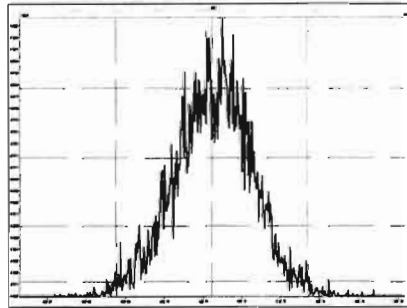
M 466.9728 R 13439



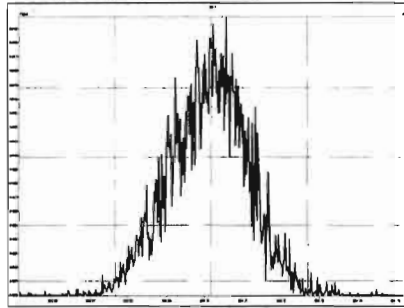
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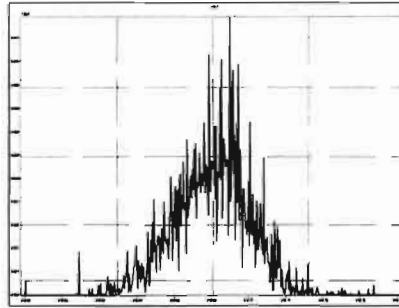
M 492.9696 R 12315



M 504.9696 R 12056



M 516.9697 R 14189



Dataset: Untitled

Last Altered: Thursday, June 04, 2020 07:28:25 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:28:44 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200603R2_2, Date: 03-Jun-2020, Time: 20:38:58, ID: ST200603R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.52
2	1,2,8,9-TCDD (Last)	27.49
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4	1,2,3,8,9-PeCDD (Last)	31.86
5	1,2,4,6,7,9-HxCDD (First)	33.35
6	1,2,3,7,8,9-HxCDD (Last)	35.23
7	1,2,3,4,6,7,9-HpCDD (First)	37.75
8	1,2,3,4,6,7,8-HpCDD (Last)	38.77
9	1,3,6,8-TCDF (First)	20.36
10	1,2,8,9-TCDF (Last)	27.64
11	1,3,4,6,8-PeCDF (First)	27.58
12	1,2,3,8,9-PeCDF (Last)	32.11
13	1,2,3,4,6,8-HxCDF (First)	32.79
14	1,2,3,7,8,9-HxCDF (Last)	35.59
15	1,2,3,4,6,7,8-HpCDF (First)	37.36
16	1,2,3,4,7,8,9-HpCDF (Last)	39.31

Dataset: Untitled

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Printed: Thursday, June 04, 2020 07:28:44 Pacific Daylight Time

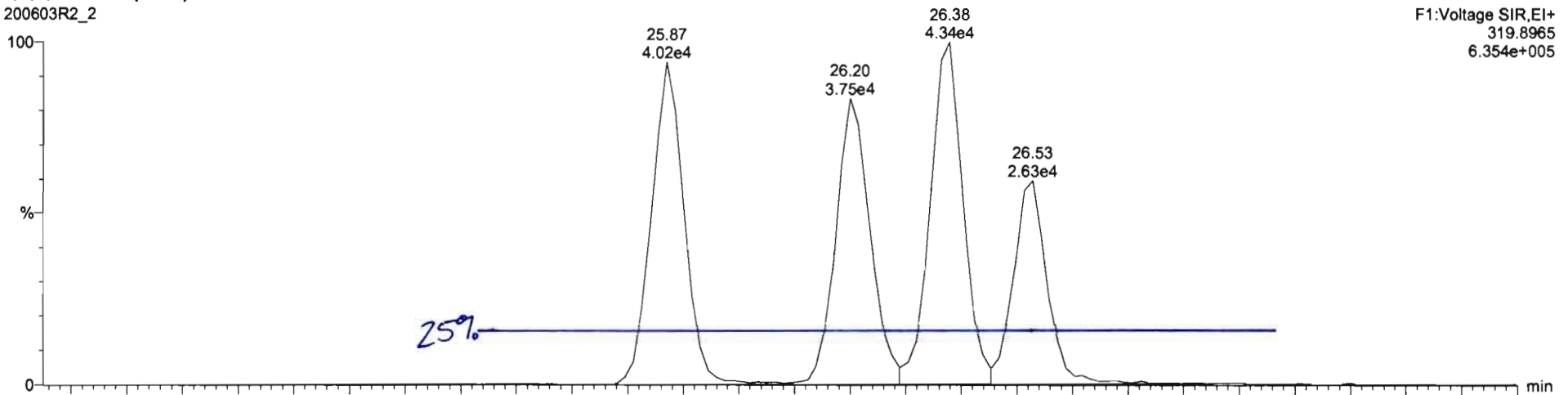
GRB 06/04/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

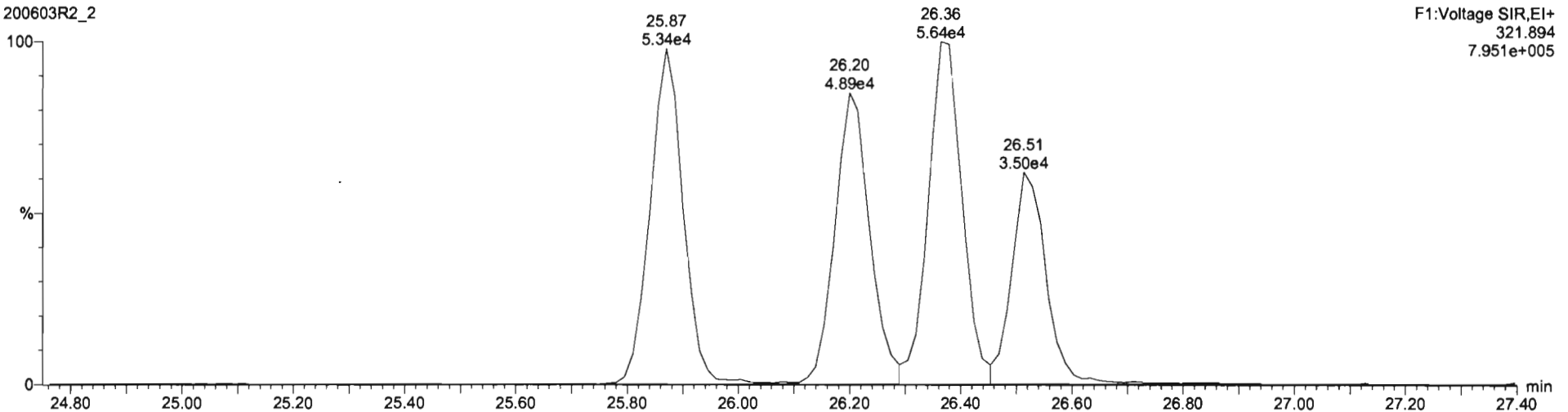
Name: 200603R2_2, Date: 03-Jun-2020, Time: 20:38:58, ID: ST200603R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200603R2_2



200603R2_2



Dataset: Untitled

Last Altered: Thursday, June 04, 2020 07:18:37 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:19:10 Pacific Daylight Time

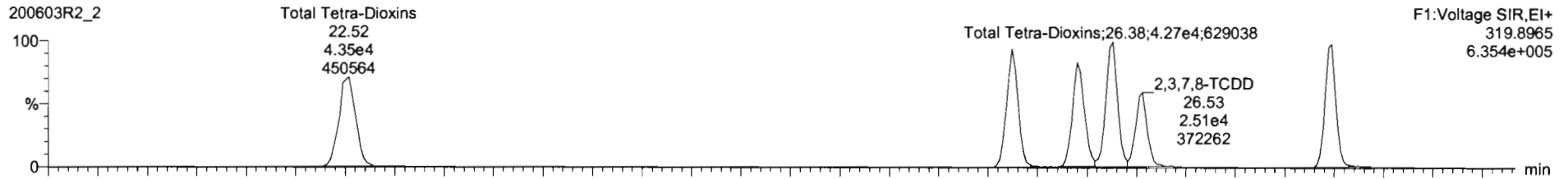
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

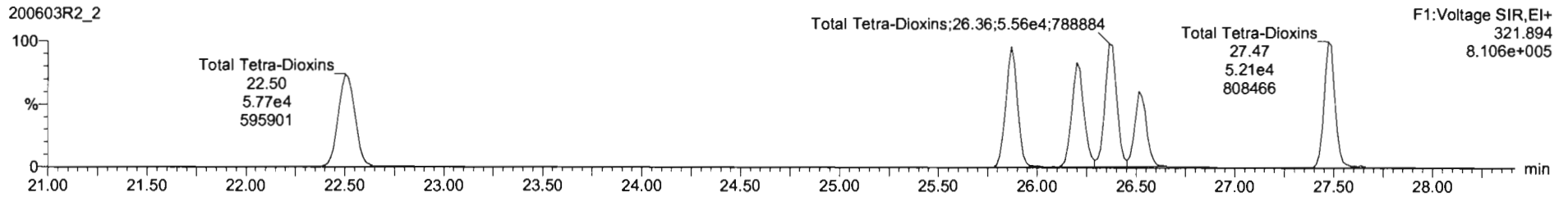
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2,3,7,8-TCDD

200603R2_2

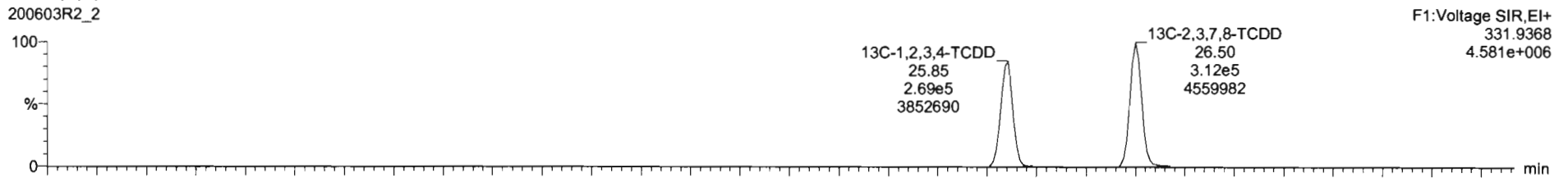


200603R2_2

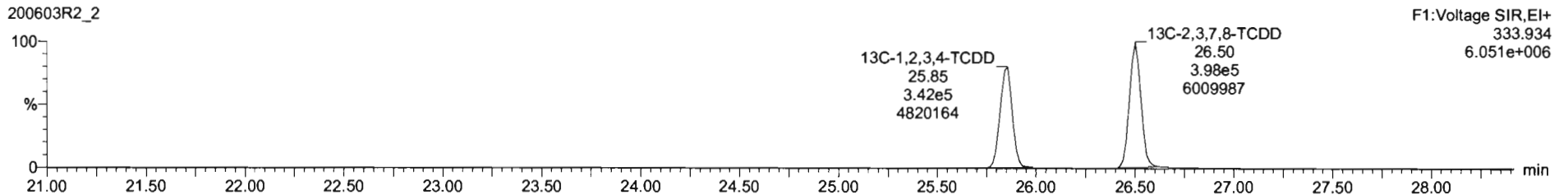


13C-2,3,7,8-TCDD

200603R2_2



200603R2_2



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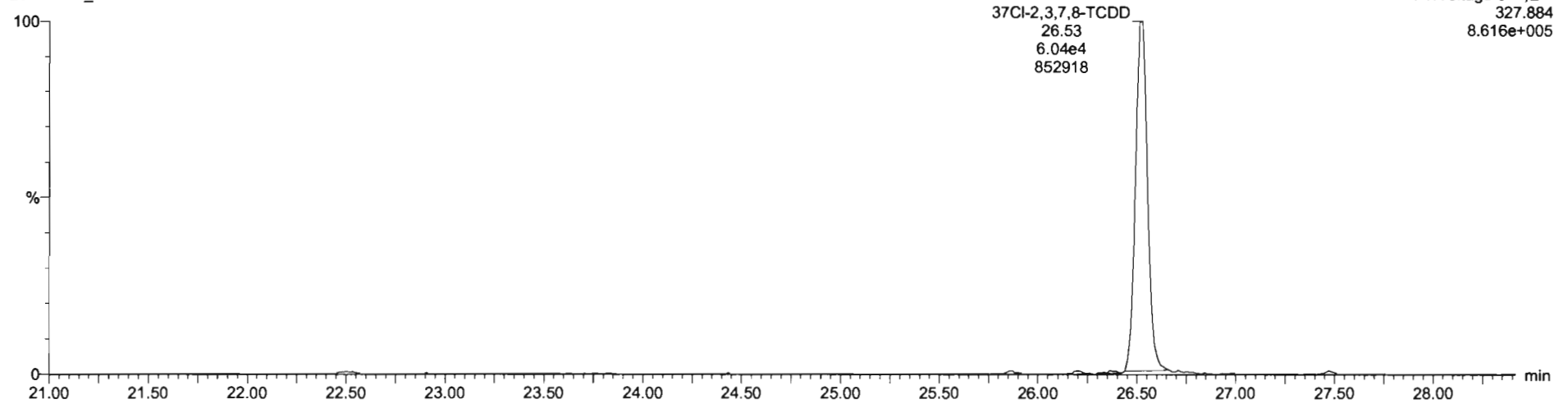
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Printed: Thursday, June 04, 2020 07:19:10 Pacific Daylight Time

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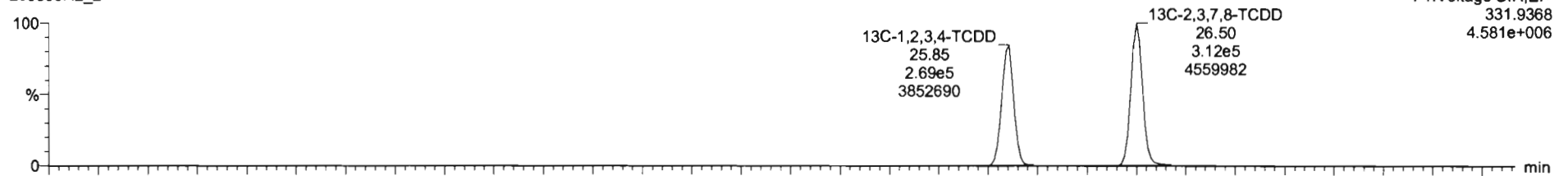
37Cl-2,3,7,8-TCDD

200603R2_2

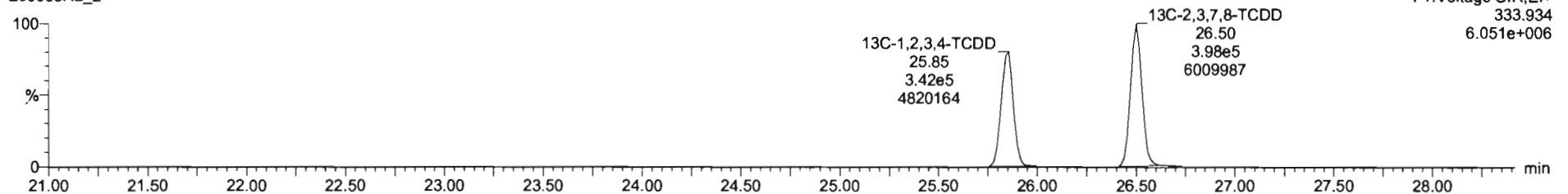


13C-1,2,3,4-TCDD

200603R2_2



200603R2_2



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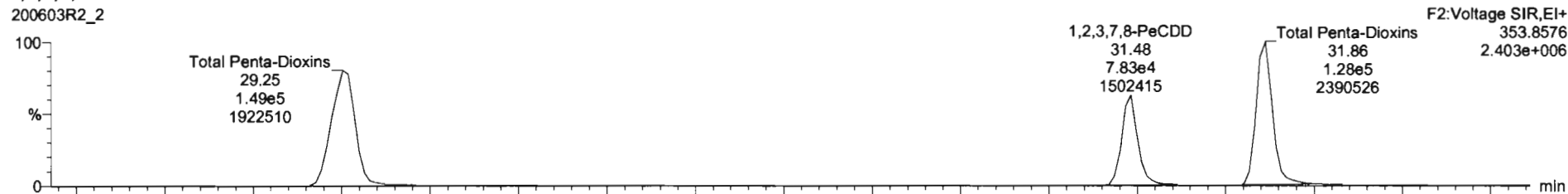
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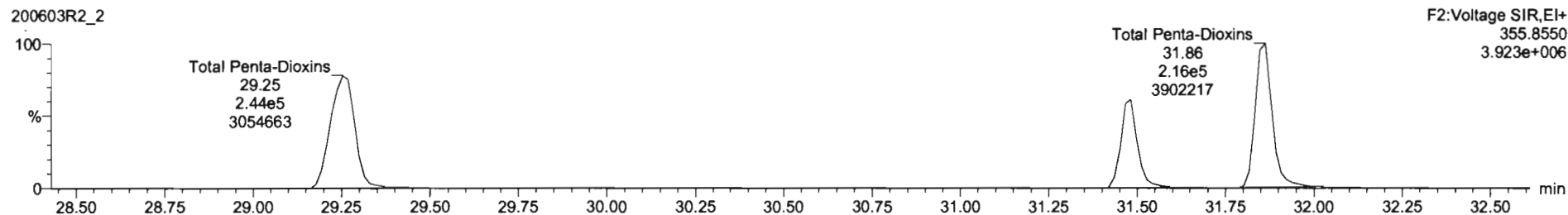
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1,2,3,7,8-PeCDD

200603R2_2

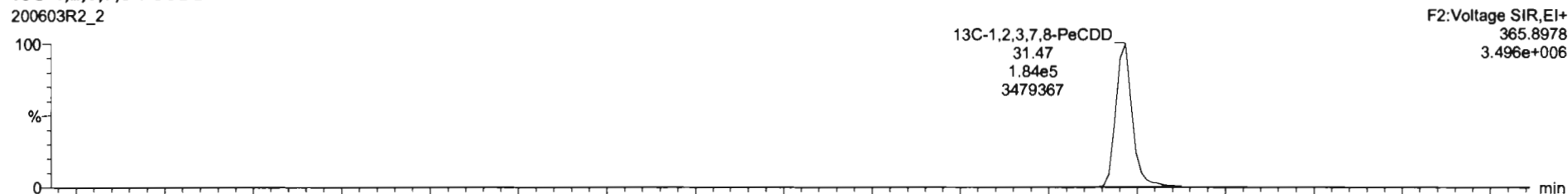


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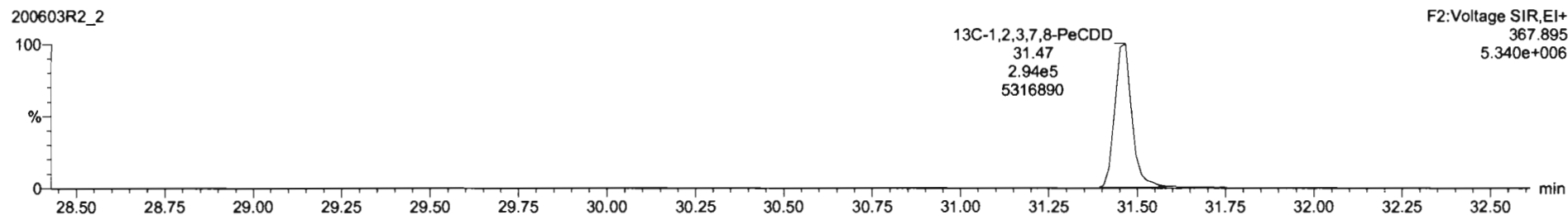


13C-1,2,3,7,8-PeCDD

200603R2_2



200603R2_2



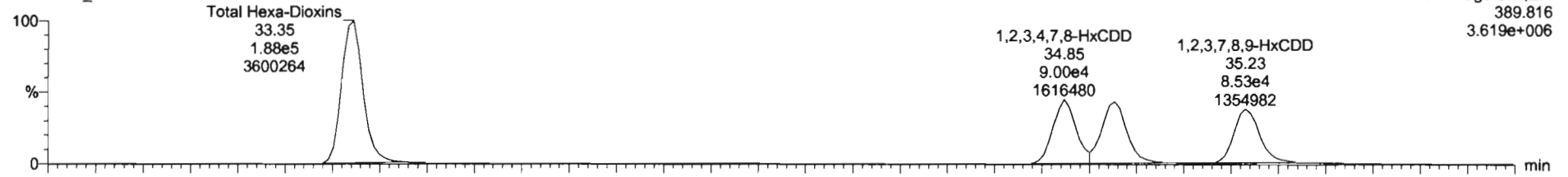
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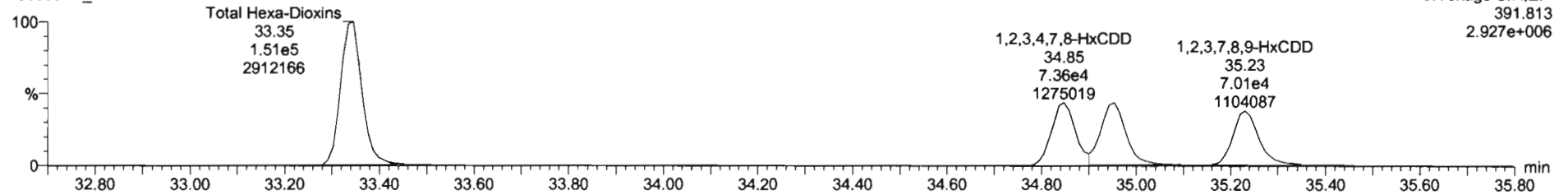
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1,2,3,4,7,8-HxCDD

200603R2_2

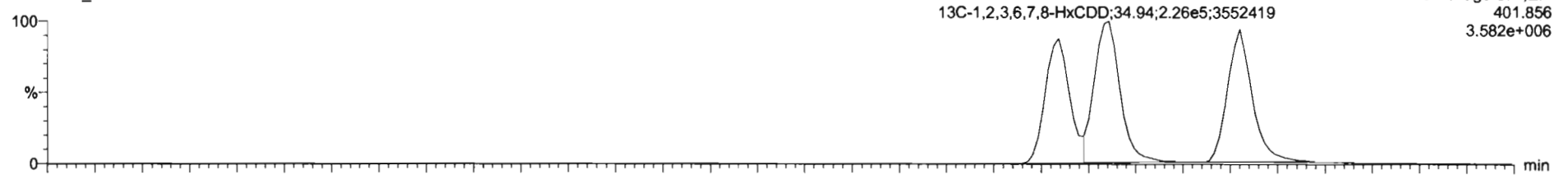


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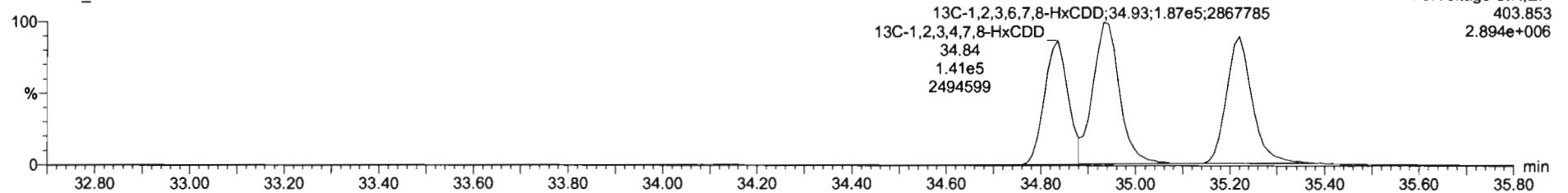


13C-1,2,3,4,7,8-HxCDD

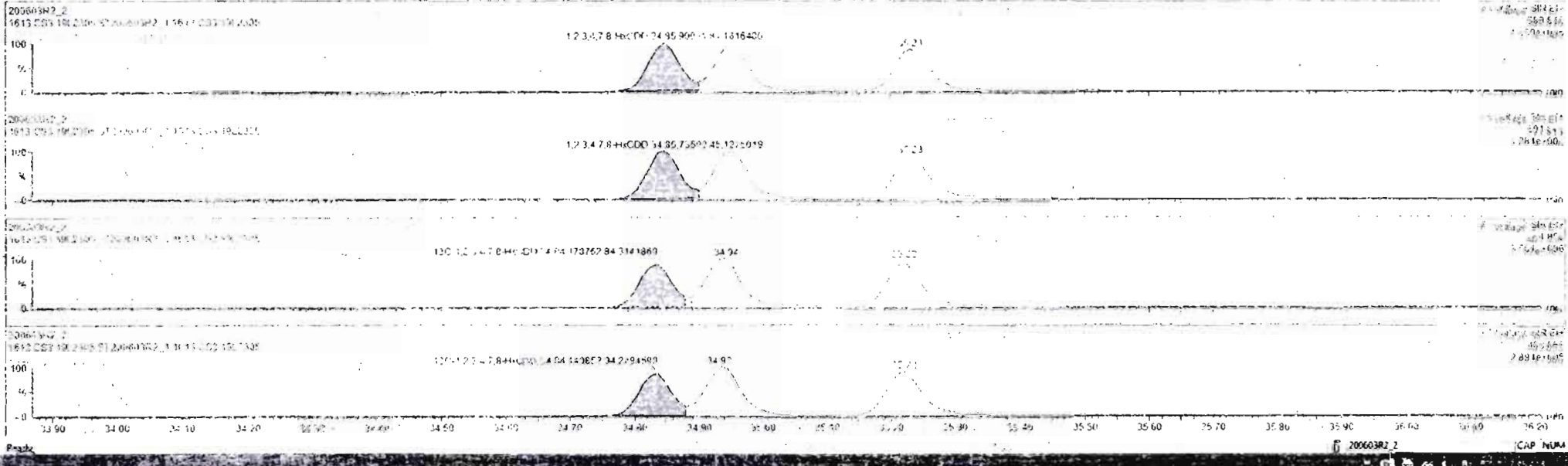
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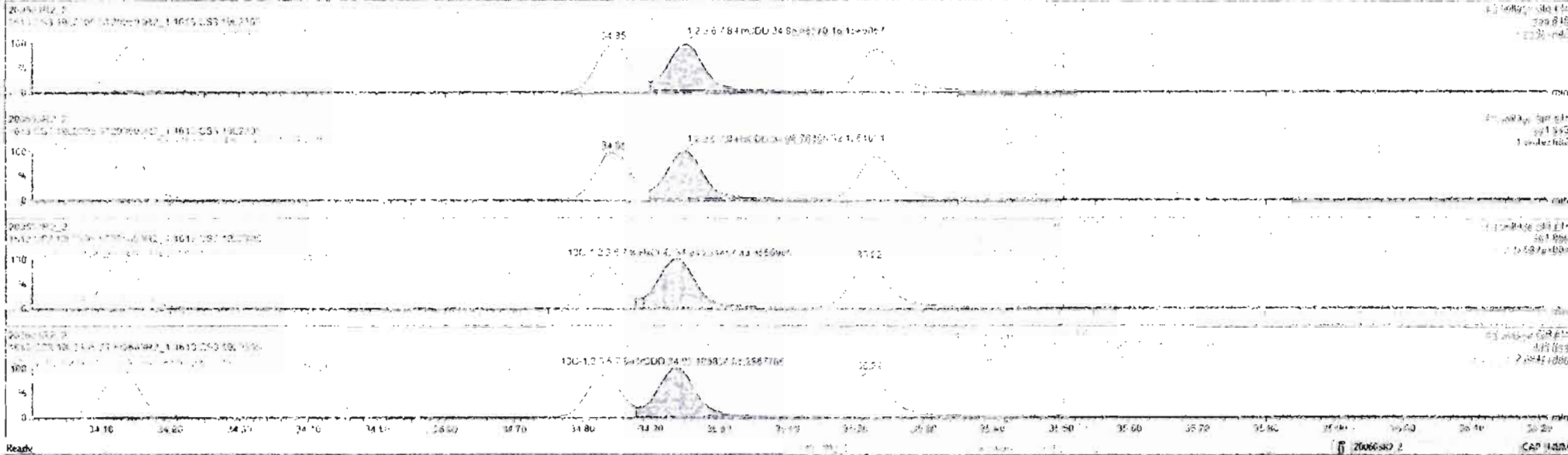
200603R2_2



#	Name	Area	S. Ret	Prod SA	PK	q%	RRF	Prod RT	RT	RT Fw	Prod IRT	NPT	Comp	%Rec	STD out
1	2.2.7.6-TCDF	0.36e5	7.10e5	0.77	0.75	NO	0.8220	28.17	28.17	NO	1.001	1.001	2.0	91.0	NO
2	1.2.3.7.8-HxCDF	1.07e5	1.74e5	0.63	0.61	NO	0.9971	34.45	34.47	NO	1.001	1.001	2.0	95.2	NO
3	1.2.3.4.7-HxCDD	1.64e5	3.20e5	1.24	1.22	NO	1.024	34.68	34.68	NO	1.000	1.000	48.5	95.1	NO
4	1.2.3.6.7-HxCDF	1.74e5	4.13e5	1.74	1.72	NO	0.9920	34.84	34.84	NO	1.000	1.000	27.1	94.7	NO
5	1.2.3.7.9-HxCDF	1.51e5	3.67e5	1.74	1.72	NO	0.8965	35.21	35.21	NO	1.000	1.000	48.0	94.7	NO
6	1.2.3.4.8.7-HxCDF	1.16e5	2.70e5	1.04	0.98	NO	0.8635	36.27	36.27	NO	1.000	1.000	49.0	94.7	NO
7	OCDD	2.34e5	5.36e5	0.86	0.85	NO	0.8130	41.72	41.72	NO	1.000	1.000	35.7	94.7	NO
8	2.2.7.8-TCDF	0.01e4	9.03e5	0.77	0.75	NO	0.7510	28.84	28.83	NO	1.001	1.001	9.42	94.7	NO
9	1.2.3.7.9-HxCDF	3.21e5	7.34e5	1.55	1.55	NO	0.8922	30.21	30.20	NO	1.001	1.001	27.1	94.7	NO
10	2.2.3.7.8-HxCDF	3.17e5	6.93e5	1.55	1.52	NO	0.9348	31.14	31.18	NO	1.001	1.001	28.7	94.7	NO
11	1.2.3.7.8-HxCDF	1.62e5	4.13e5	1.74	1.74	NO	0.8645	32.37	32.37	NO	1.000	1.001	31.0	94.7	NO
12	1.2.3.4.7.8-HxCDF	2.11e5	4.90e5	1.24	1.22	NO	0.8692	32.59	32.60	NO	1.000	1.001	46.2	94.7	NO
13	2.2.4.8.7-HxCDF	0.01e5	4.36e5	1.24	1.20	NO	0.9461	34.70	34.68	NO	1.001	1.000	28.4	94.7	NO
14	1.2.3.7.8.9-HxCDF	1.56e5	3.61e5	1.74	1.72	NO	0.8767	35.33	35.33	NO	1.000	1.000	49.0	94.7	NO
15	1.2.3.4.8.7-HxCDF	1.40e5	3.16e5	1.04	0.97	NO	0.8734	37.39	37.30	NO	1.001	1.000	27.4	94.7	NO
16	1.2.3.4.7.8.9-HxCDF	1.06e5	2.04e5	1.04	1.00	NO	1.0128	38.30	38.21	NO	1.000	1.000	57.4	94.7	NO
17	OCDF	7.07e5	2.04e5	0.86	0.80	NO	0.8365	41.51	41.52	NO	1.000	1.000	15.1	94.7	NO
18	1.2.3.7.8-TCDF	7.10e5	6.10e5	0.77	0.75	NO	1.1551	28.51	28.51	NO	1.021	1.022	101	94.7	NO
19	1.2.3.4.7.8-HxCDF	1.79e5	6.10e5	0.63	0.61	NO	0.8358	31.24	31.27	NO	1.227	1.211	32.4	94.7	NO
20	1.2.3.4.7.8.9-HxCDF	1.20e5	4.23e5	1.24	1.20	NO	0.7799	34.84	34.84	NO	1.014	1.014	76.9	94.7	NO
21	1.2.3.4.8.7.9-HxCDF	4.13e5	4.23e5	1.24	1.21	NO	1.0157	34.90	34.90	NO	1.011	1.011	38.2	94.7	NO



#	Name	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%
1	2.2.3.1.CDD	5.06e5	7.19e4	0.77	0.74	NO	0.0267	26.53	28.57	NO	1.001	1.001	9.10	53.6	NO				
2	2.2.3.2.4-HeCDD	2.07e6	4.75e5	0.93	0.61	NO	0.041	21.49	23.88	NO	1.001	1.001	47.8	16.2	NO				
3	1.2.3.4.7-4-HeCDD	1.69e5	3.29e5	1.24	1.24	NO	0.034	14.05	14.05	NO	1.001	1.001	45.1	15.1	NO				
4	1.2.3.4.7.2-HeCDD	1.77e5	4.27e5	1.23	1.23	NO	0.0353	14.94	14.95	NO	1.001	1.001	45.2	15.1	NO				
5	1.2.3.7.2-HeCDD	1.57e5	3.65e5	1.24	1.22	NO	0.034	14.13	14.23	NO	1.001	1.001	46.9	15.1	NO				
6	1.2.3.4.7.2-HeCDD	1.15e5	2.79e5	1.01	0.93	NO	0.0365	16.77	16.77	NO	1.001	1.001	45.1	15.1	NO				
7	CCDC	2.34e5	5.39e5	0.85	0.88	NO	0.0328	11.72	11.72	NO	1.000	1.000	95.1	53.7	NO				
8	2.2.3.10.7-HeCDD	8.01e4	6.25e5	0.77	0.72	NO	0.0313	25.34	25.63	NO	1.001	1.001	44.2	15.2	NO				
9	1.2.3.7.2-HeCDD	3.21e5	7.56e5	1.11	1.11	NO	0.0397	19.21	20.05	NO	1.001	1.001	44.1	15.1	NO				
10	3.3.7.4-HeCDD	3.17e5	6.09e5	1.11	1.11	NO	0.0397	19.13	19.18	NO	1.001	1.001	44.1	15.1	NO				
11	1.2.3.7.2-HeCDD	1.66e5	4.19e5	1.24	1.21	NO	0.0361	16.36	16.97	NO	1.001	1.001	44.0	15.2	NO				
12	1.2.3.7.2-HeCDD	2.11e5	4.90e5	1.23	1.23	NO	0.0359	14.09	14.09	NO	1.001	1.001	45.3	16.7	NO				
13	2.3.4.7.2-HeCDD	2.07e5	4.76e5	1.11	1.11	NO	0.0341	14.76	14.68	NO	1.001	1.001	49.4	16.8	NO				
14	1.2.3.7.2-HeCDD	1.50e5	3.15e5	1.24	1.25	NO	0.0377	17.58	17.58	NO	1.001	1.001	47.8	17.2	NO				
15	1.2.3.4.7.2-HeCDD	1.45e5	3.15e5	1.04	0.97	NO	0.0336	17.30	17.30	NO	1.001	1.001	47.1	16.1	NO				
16	1.2.3.4.7.2-HeCDD	1.08e5	2.04e5	1.04	1.00	NO	0.0313	16.30	16.31	NO	1.001	1.001	47.4	16.7	NO				
17	CCDC	2.47e5	5.09e5	0.76	0.80	NO	0.0322	11.83	11.82	NO	1.001	1.001	121	15.1	NO				
18	1.2.3.7.2-HeCDD	7.10e5	6.19e5	0.71	0.70	NO	0.0315	26.54	26.50	NO	1.001	1.001	101	10.1	NO				
19	1.2.3.7.2-HeCDD	4.19e5	6.93	0.80	0.80	NO	0.0359	17.22	17.47	NO	1.001	1.001	96	12.4	NO				
20	1.2.3.4.7.2-HeCDD	3.29e5	4.25e5	1.24	1.27	NO	0.0359	14.84	14.81	NO	1.014	1.014	96.4	16.8	NO				
21	1.2.3.7.2-HeCDD	2.21e5	4.25e5	1.24	1.24	NO	0.0374	14.92	14.94	NO	1.017	1.017	91.9	17.6	NO				



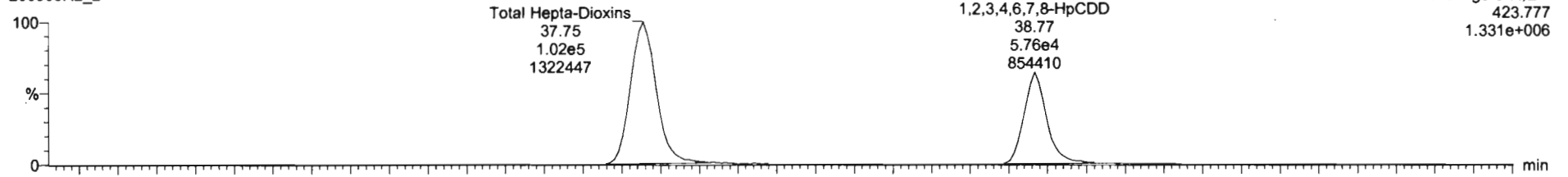
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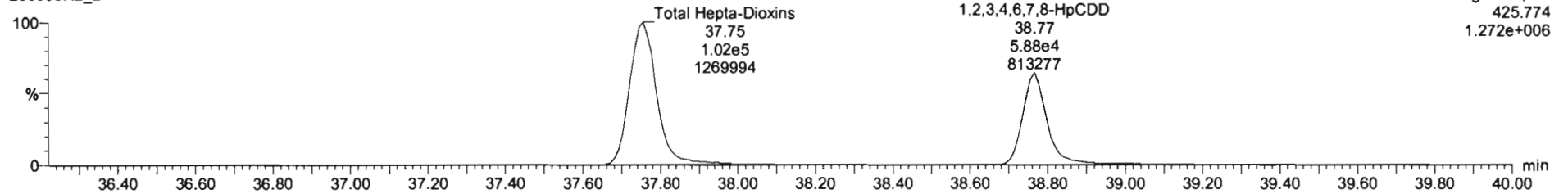
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1,2,3,4,6,7,8-HpCDD

200603R2_2

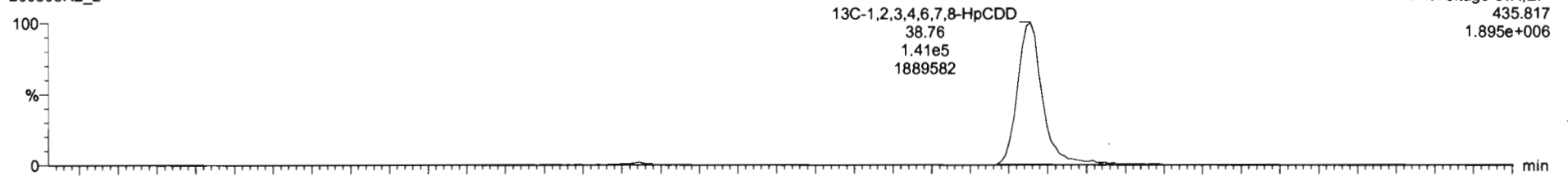


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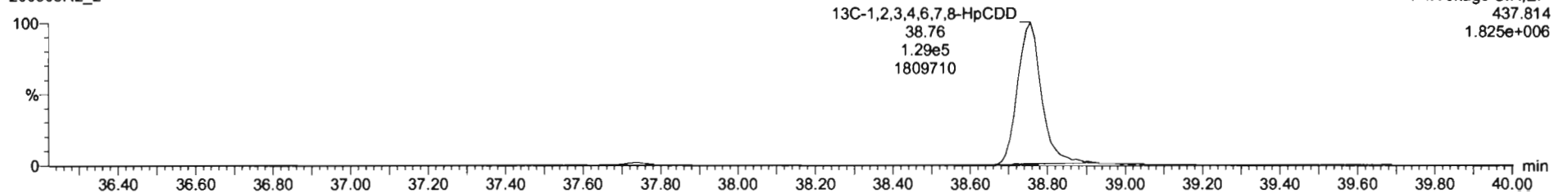


13C-1,2,3,4,6,7,8-HpCDD

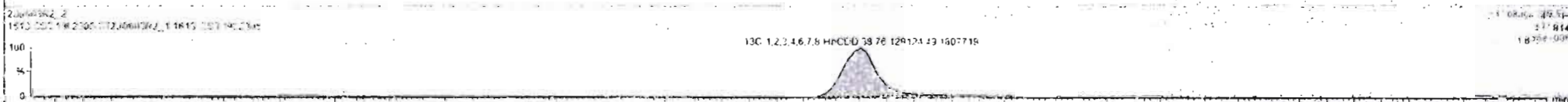
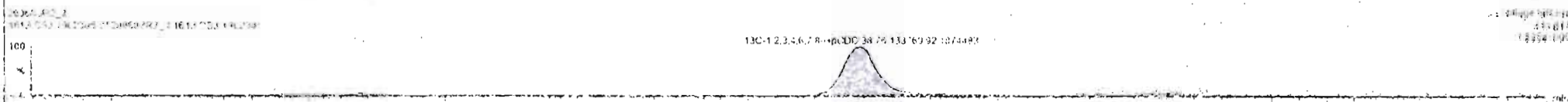
200603R2_2



200603R2_2



#	Name	Resp	S Pres	Pres HA	RA	ply	PRF	Pres BT	RT	RT Flag	Pres (RT)	RRF	Comp	WRet	STD out
1	1 2 1 6 TCCD	5.06e4	7.10e5	0.77	0.75	NO	0.958	28.53	28.77	NO	1.001	1.001	95.0	95.0	NO
2	1 2 1 7 8 HcCDF	2.77e5	4.70e5	0.63	0.81	NO	0.908	27.45	27.45	NO	1.001	1.000	97.3	95.7	NO
3	1 2 3 4 7 8 HcCDF	1.64e5	2.20e5	1.24	1.22	NO	0.934	24.85	24.85	NO	1.000	1.000	95.5	95.1	NO
4	1 2 3 4 7 8 HcCDF	1.74e5	4.21e5	1.24	1.22	NO	0.992	24.84	24.85	NO	1.000	1.000	96.2	92.1	NO
5	1 2 3 4 7 8 HcCDF	1.51e5	3.91e5	1.24	1.22	NO	0.999	24.27	24.27	NO	1.000	1.000	96.0	95.1	NO
6	1 2 3 4 6 7 8 HcCDF	1.13e5	2.62e5	1.00	0.71	NO	0.9635	38.77	38.77	NO	1.000	1.000	90.1	100.0	NO
7	7 CDD	2.34e5	5.36e5	0.60	0.36	NO	0.9136	41.72	41.73	NO	1.000	1.000	95.7	95.7	NO
8	2 1 7 8 HcCDF	6.61e4	9.35e5	0.71	0.72	NO	0.7510	25.64	25.67	NO	1.001	1.001	91.2	94.2	NO
9	1 2 3 7 8 HcCDF	1.21e5	1.4e5	1.25	1.55	NO	0.9925	20.27	20.27	NO	1.001	1.001	99.1	95.1	NO
10	2 1 4 7 8 HcCDF	1.17e5	6.09e5	1.25	1.22	NO	0.9348	31.19	31.19	NO	1.001	1.000	93.0	97.2	NO
11	1 2 3 4 7 8 HcCDF	1.00e5	4.10e5	1.24	1.21	NO	0.9845	33.90	33.92	NO	1.000	1.000	91.0	100.0	NO
12	1 2 3 4 7 8 HcCDF	2.11e5	9.30e5	1.24	1.22	NO	0.9857	34.35	34.09	NO	1.000	1.000	96.7	96.7	NO
13	2 1 4 7 8 HcCDF	2.01e5	7.36e5	1.24	1.20	NO	0.9341	34.70	34.68	NO	1.001	1.000	97.4	98.9	NO
14	1 2 3 4 7 8 HcCDF	1.74e5	3.61e5	1.24	1.26	NO	0.9707	35.58	35.59	NO	1.000	1.000	95.6	100.0	NO
15	1 2 3 4 6 7 8 HcCDF	1.40e5	3.18e5	1.01	0.97	NO	0.8734	37.87	37.36	NO	1.001	1.000	96.4	101.0	NO
16	1 2 3 4 7 8 HcCDF	1.06e5	2.04e5	1.04	1.00	NO	1.0128	39.30	39.31	NO	1.000	1.000	92.4	105.0	NO
17	7 CDD	3.47e5	6.09e5	0.30	0.36	NO	2.95e5	41.51	41.51	NO	1.000	1.000	101.0	101.0	NO
18	1 2 3 4 7 8 HcCDF	7.10e5	8.10e5	0.77	0.78	NO	1.1557	25.57	25.50	NO	1.026	1.022	101.0	101.0	NO
19	1 2 3 4 7 8 HcCDF	4.79e5	6.10e5	0.73	0.63	NO	1.3450	31.73	31.42	NO	1.227	1.217	92.4	92.4	NO
20	1 2 3 4 7 8 HcCDF	2.20e5	4.23e5	1.24	1.22	NO	0.9190	24.84	24.84	NO	1.014	1.014	96.9	96.9	NO
21	1 2 3 4 6 7 8 HcCDF	4.21e5	4.23e5	1.24	1.20	NO	1.2187	24.92	24.91	NO	1.013	1.012	97.9	97.9	NO

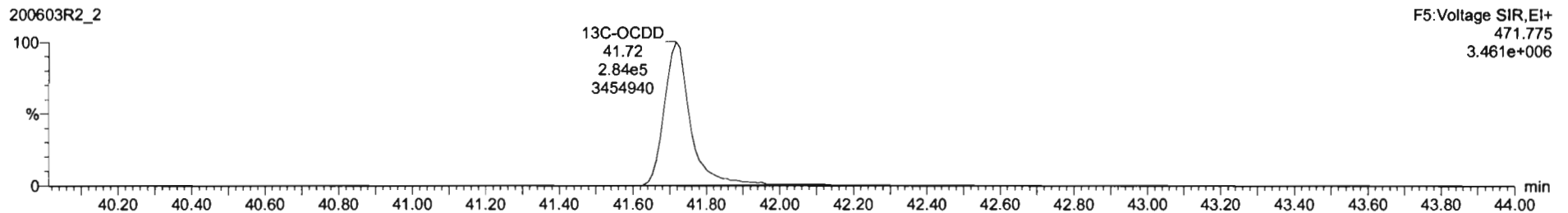
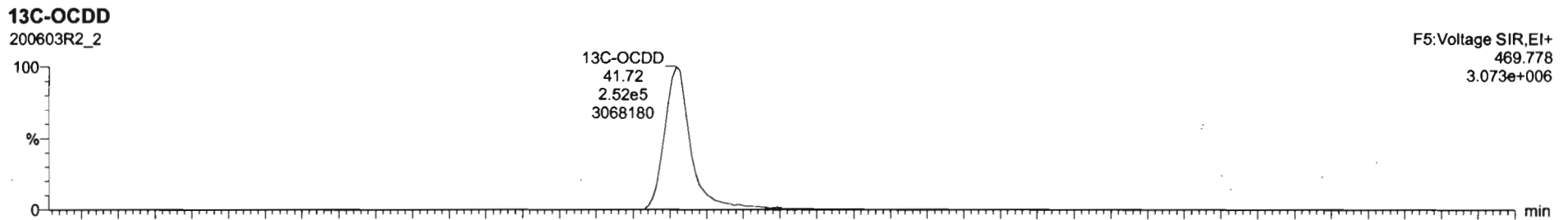
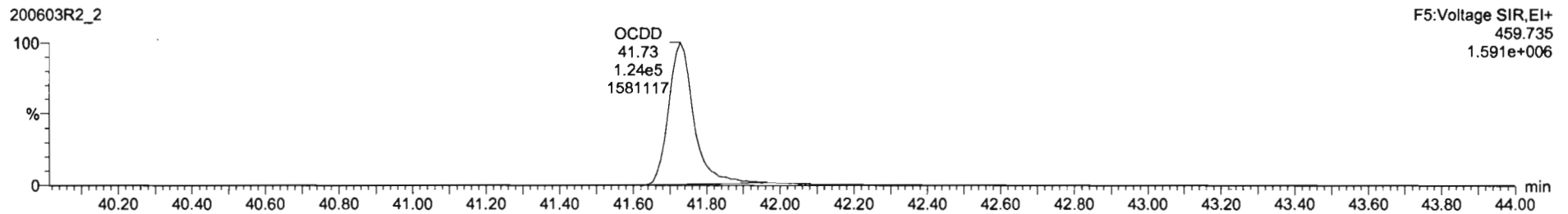
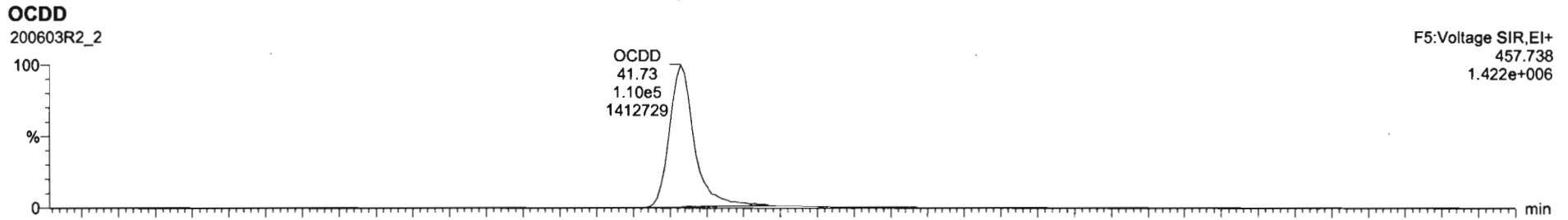


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Last Altered: Thursday, June 04, 2020 07:18:37 Pacific Daylight Time

Printed: Thursday, June 04, 2020 07:19:10 Pacific Daylight Time

Name: 200603R2_2, Date: 03-Jun-2020, Time: 20:38:58, ID: ST200603R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



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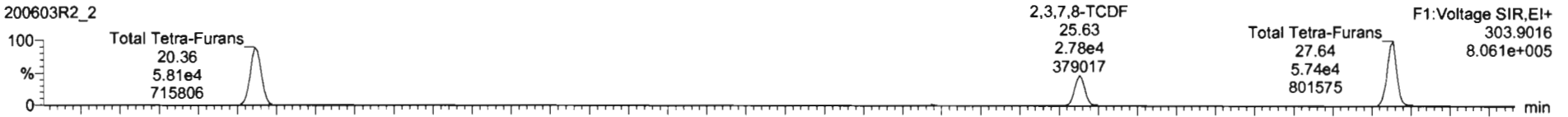
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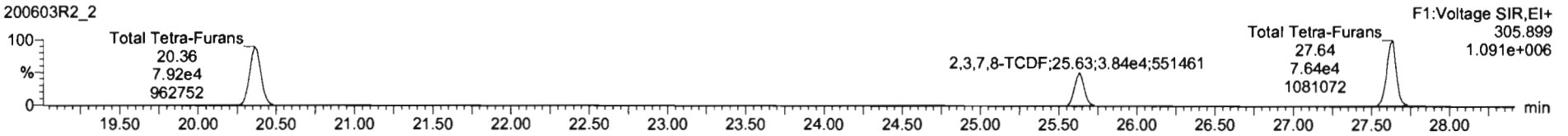
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2,3,7,8-TCDF

200603R2_2

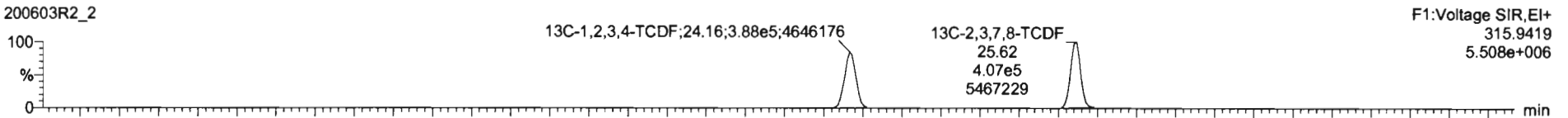


200603R2_2

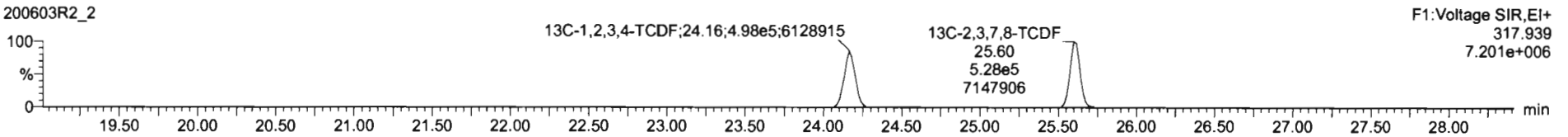


13C-2,3,7,8-TCDF

200603R2_2

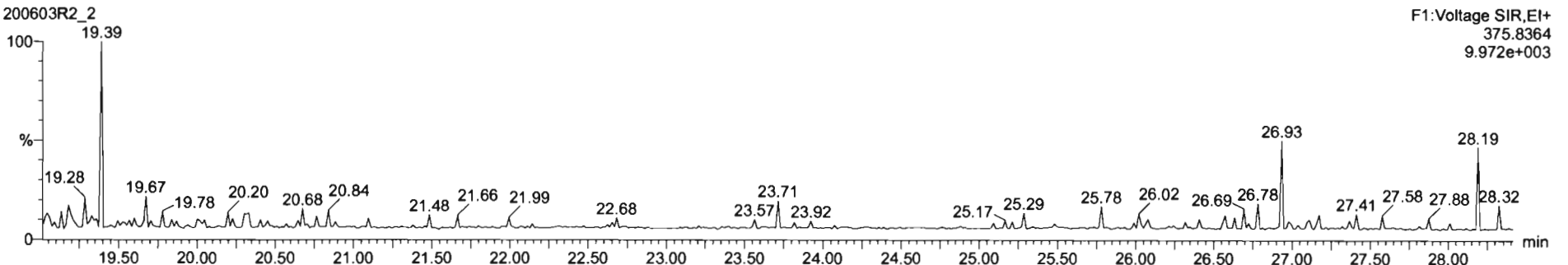


200603R2_2



DPE1

200603R2_2



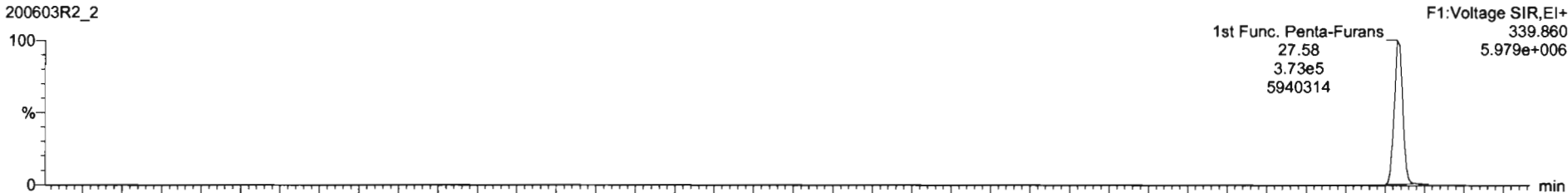
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Printed: Thursday, June 04, 2020 07:19:10 Pacific Daylight Time

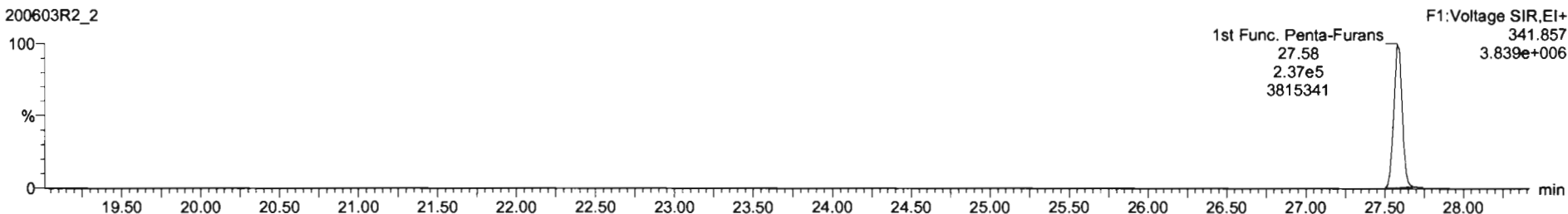
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1st Func. Penta-Furans

200603R2_2

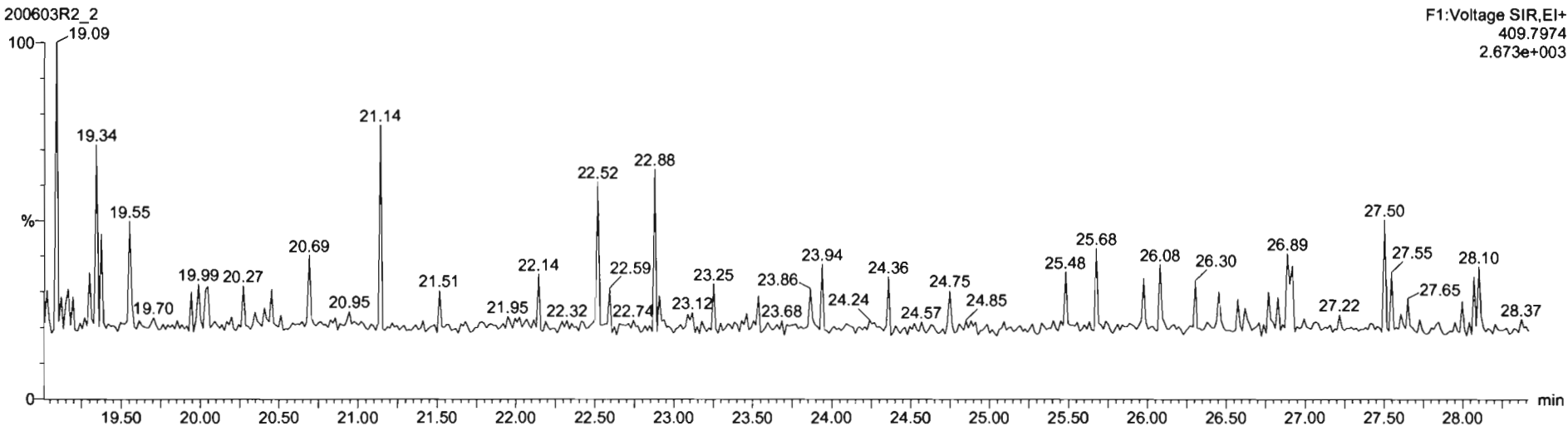


200603R2_2



DPE6

200603R2_2



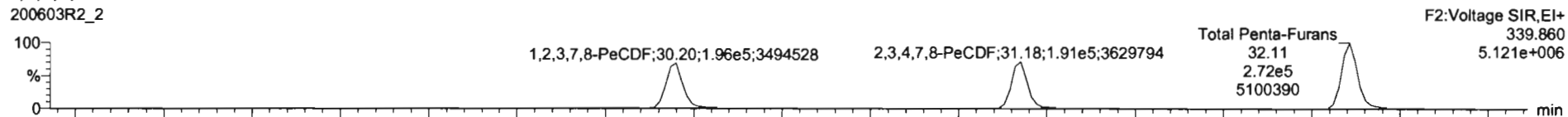
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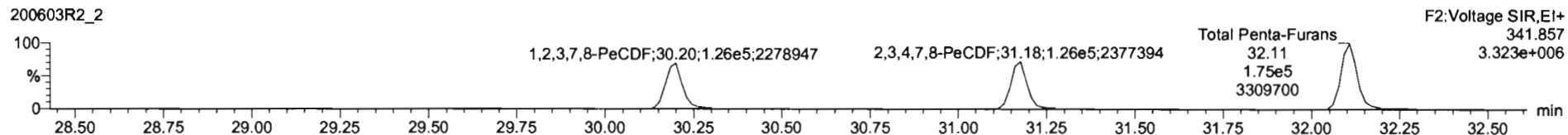
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1,2,3,7,8-PeCDF

200603R2_2

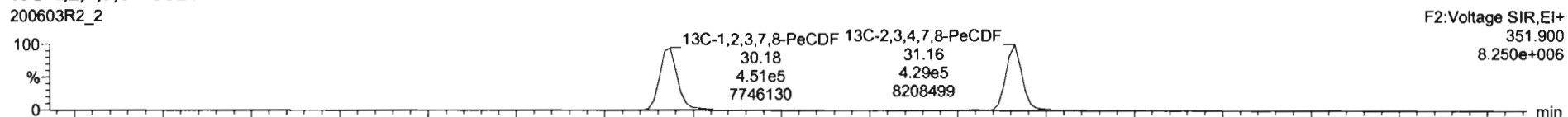


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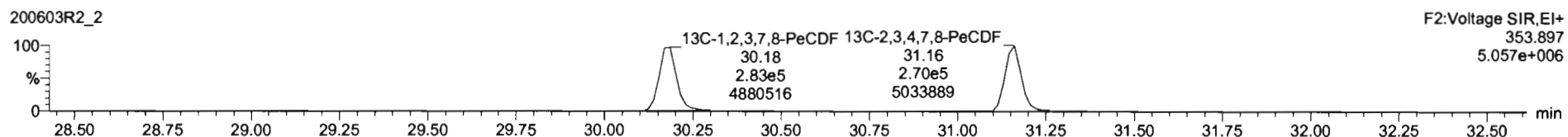


13C-1,2,3,7,8-PeCDF

200603R2_2

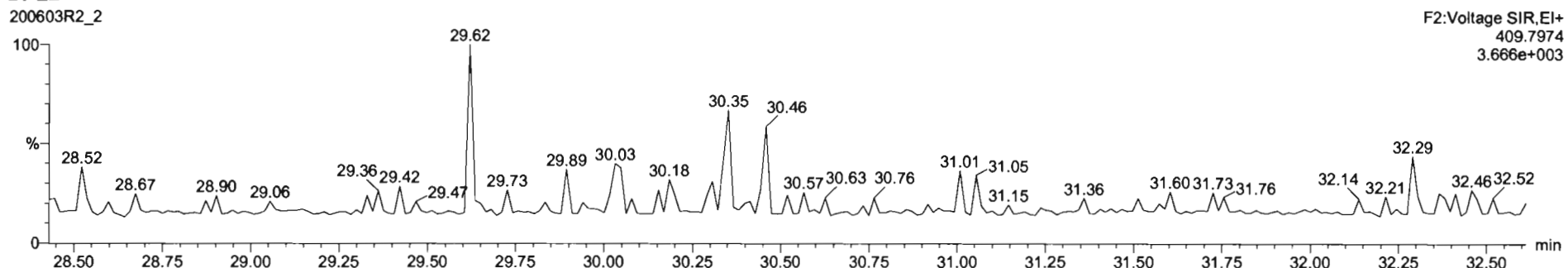


200603R2_2



DPE2

200603R2_2



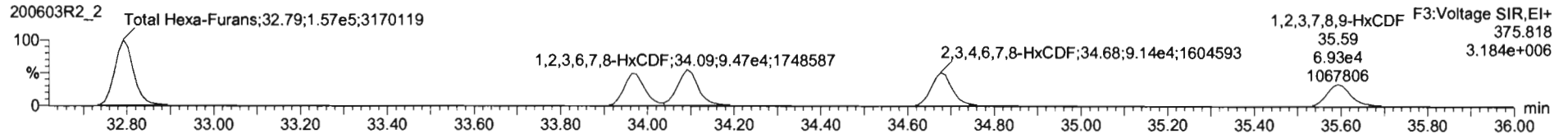
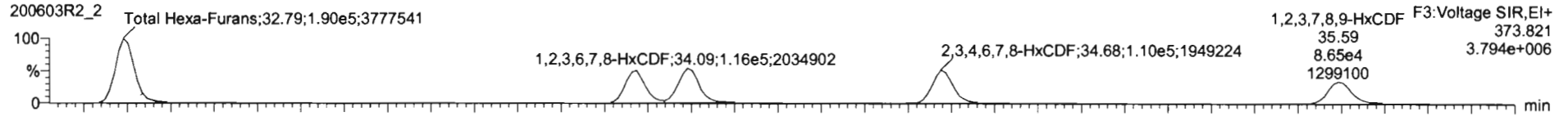
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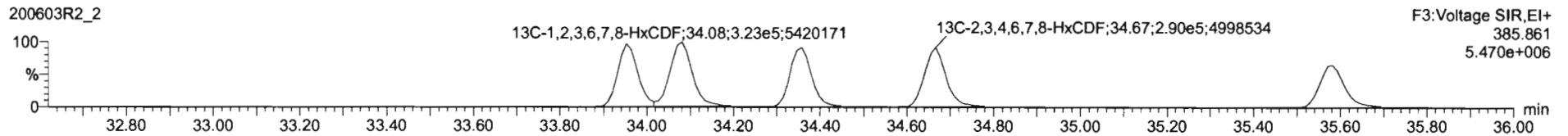
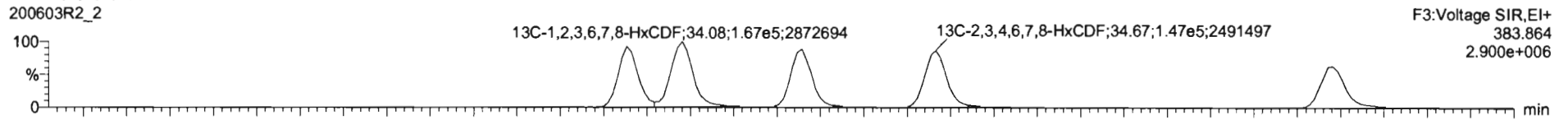
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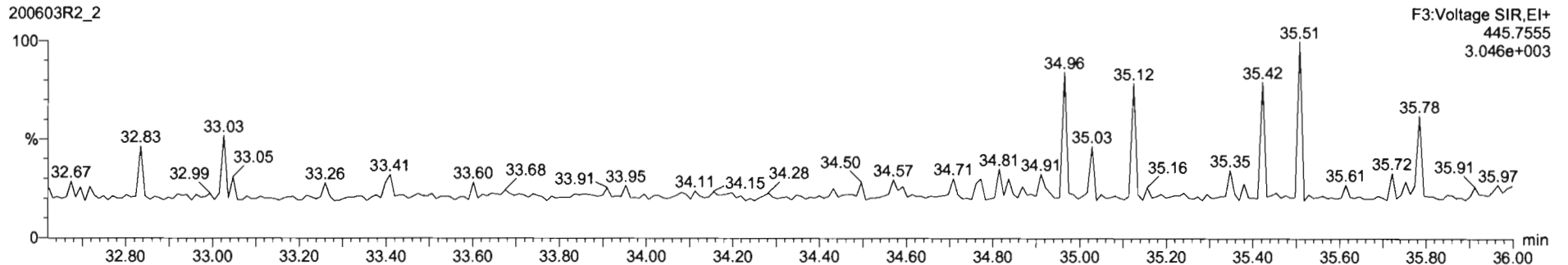
1,2,3,4,7,8-HxCDF



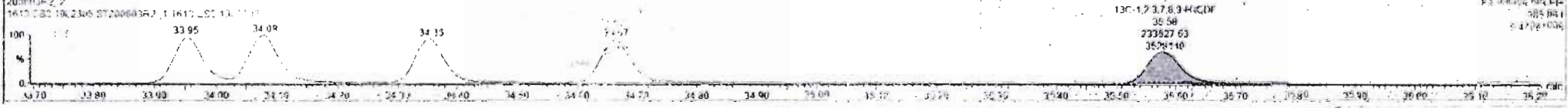
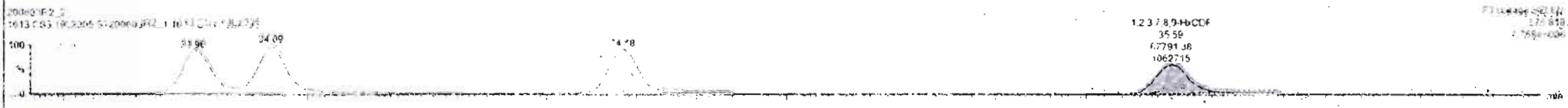
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	Resp	Q Resp	Fred RA	RA	aly	RRP	Pred.RC	RT	RT Flag	Prep RT	PR	Core	%Rec	STD out
1	1 2 3 7 8 HCCD	5.96e5	7.10e5	0.77	0.75	NO	0.8883	28.53	25.52	NO	1.001	1.001	9.10	80.8	NO
2	2 1 3 7 8 HCCD	2.07e5	4.79e5	0.03	0.31	NO	0.9061	31.49	31.46	NO	1.001	1.000	17.6	95.7	NO
3	3 1 2 3 7 8 HCCD	1.44e5	2.20e5	1.24	1.22	NO	1.0134	34.85	34.52	NO	0.910	1.010	43.8	94.1	NO
4	4 1 2 3 7 8 HCCD	1.74e5	4.21e5	1.24	1.22	NO	0.8923	34.44	34.47	NO	1.000	1.010	46.7	97.4	NO
5	5 1 2 3 7 8 HCCD	1.55e5	2.95e5	1.24	1.22	NO	0.9059	35.23	35.22	NO	1.000	1.000	43.3	97.5	NO
6	6 1 2 3 4 7 8 HCCD	1.13e5	2.82e5	1.24	0.91	NO	0.9619	38.77	30.77	NO	1.000	1.000	50.4	100	NO
7	7 HCCD	2.31e5	6.39e5	0.85	0.88	NO	0.9120	41.72	41.73	NO	1.000	1.000	95.7	95.7	NO
8	8 2 3 7 8 HCCD	6.61e4	9.19e4	0.77	0.77	NO	0.7510	35.64	25.61	NO	1.001	1.001	3.17	94.2	NO
9	9 1 2 3 7 8 HCCD	3.21e5	7.24e5	1.25	1.19	NO	0.9224	36.21	30.20	NO	0.900	1.001	45.1	98.1	NO
10	10 2 3 4 7 8 HCCD	3.17e5	6.99e5	1.25	1.20	NO	0.9342	37.16	31.15	NO	1.001	1.000	48.8	97.2	NO
11	11 1 2 3 4 7 8 HCCD	1.60e5	4.19e5	1.24	1.21	NO	0.8845	32.36	33.97	NO	1.000	1.001	51.0	102	NO
12	12 1 2 3 6 7 8 HCCD	7.71e5	4.90e5	1.24	1.22	NO	0.8882	31.09	34.09	NO	1.000	1.000	46.3	96.7	NO
13	13 2 3 4 7 8 HCCD	2.01e5	4.76e5	1.25	1.26	NO	0.9341	34.40	34.88	NO	1.001	1.000	49.4	98.6	NO
14	14 2 3 4 7 8 HCCD	1.51e5	3.51e5	1.25	1.25	NO	0.8617	35.46	35.39	NO	0.920	1.000	49.5	99.8	NO
15	15 1 2 3 4 7 8 HCCD	1.40e5	3.16e5	1.04	0.97	NO	0.8734	37.39	37.35	NO	1.001	1.000	50.4	101	NO
16	16 1 2 3 4 7 8 HCCD	1.08e5	2.34e5	1.34	1.00	NO	1.2125	39.30	35.11	NO	1.001	1.000	52.4	105	NO
17	17 HCCD	2.47e5	6.29e5	1.25	0.30	NO	0.5105	41.81	41.81	NO	1.000	1.000	101	101	NO
18	18 1 2 3 7 8 HCCD	7.10e5	6.10e5	0.77	0.75	NO	1.1261	28.52	25.59	NO	1.000	1.000	101	101	NO
19	19 1 3 4 7 8 HCCD	4.70e5	5.19e5	0.63	0.33	NO	0.6427	31.73	31.47	NO	1.001	1.000	50.4	82.4	NO
20	20 1 3 4 7 8 HCCD	3.20e5	4.23e5	1.24	1.27	NO	0.7790	24.84	34.64	NO	1.004	1.010	36.9	95.9	NO
21	21 1 3 4 7 8 HCCD	4.21e5	4.23e5	1.24	1.25	NO	1.0167	34.35	34.94	NO	1.017	1.017	97.6	97.9	NO



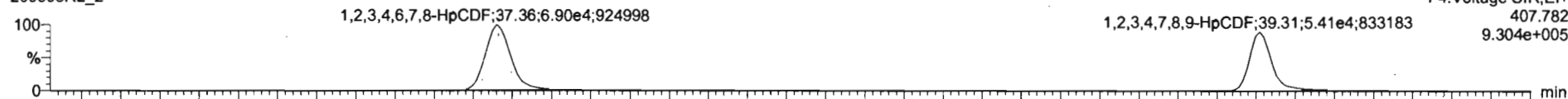
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Last Altered: Thursday, June 04, 2020 07:18:37 Pacific Daylight Time
Printed: Thursday, June 04, 2020 07:19:10 Pacific Daylight Time

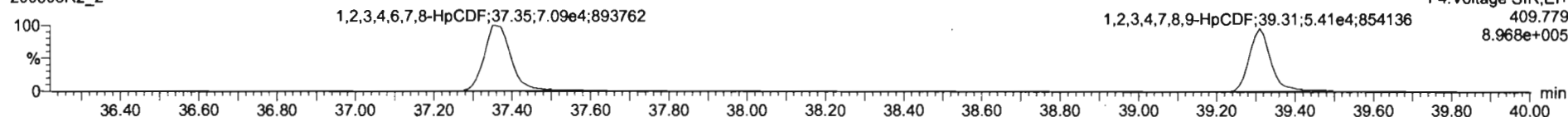
Name: 200603R2_2, Date: 03-Jun-2020, Time: 20:38:58, ID: ST200603R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200603R2_2

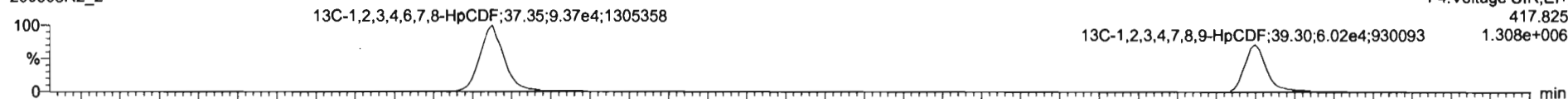


200603R2_2

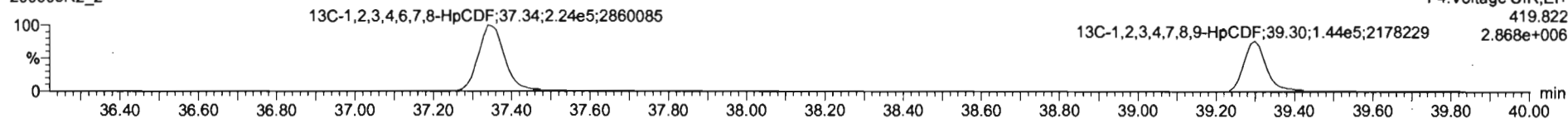


13C-1,2,3,4,6,7,8-HpCDF

200603R2_2

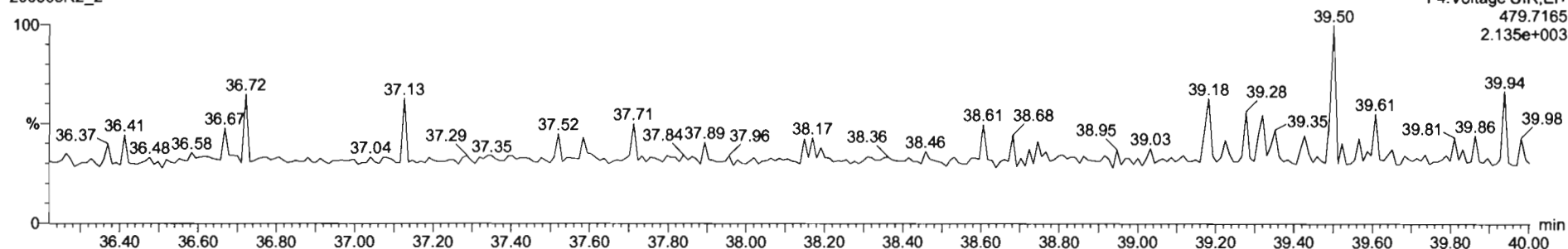


200603R2_2

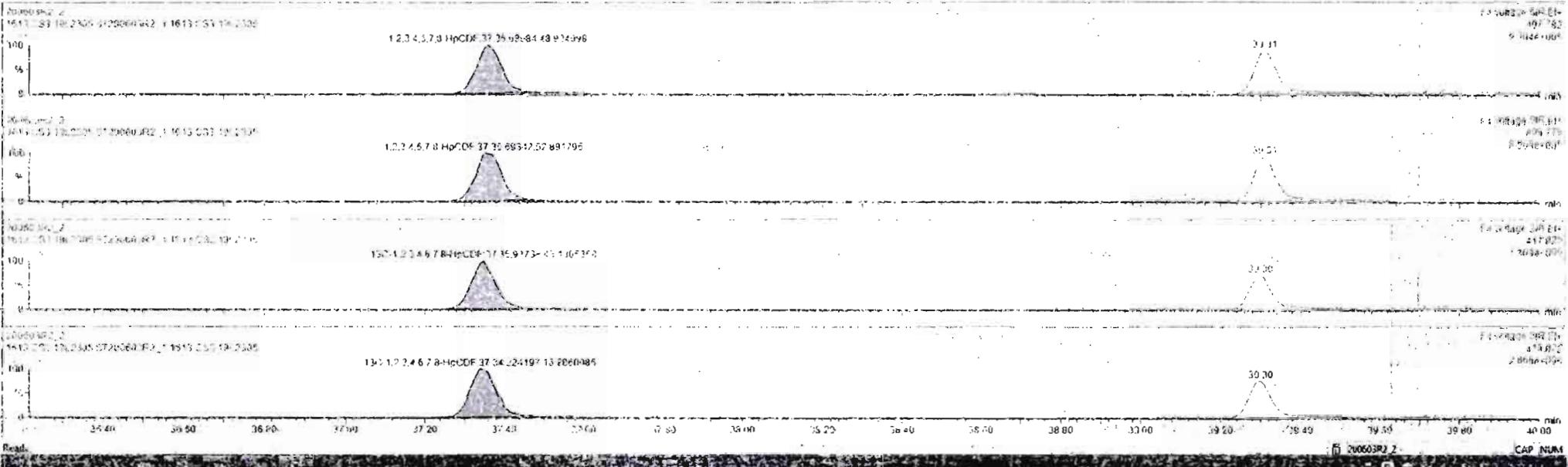


DPE4

200603R2_2



#	Name	Peak	C. Read	Peak RA	RA	RY	R/F	Pred RT	RT	RT Lag	Pred SRT	RRZ	C. Conc	W. Conc	Std out
1	1.2.3.7.6-ICD	5.86e4	7.10e4	0.77	0.75	NO	0.8882	28.53	28.51	NO	1.001	1.001	2.00	20.0	NO
2	1.2.3.7.8-HPICD	2.07e4	4.19e4	0.52	0.51	NO	0.9091	31.46	31.46	NO	1.001	1.000	1.00	10.0	NO
3	1.2.3.4.7.8-HPICD	1.6e4	3.26e4	1.74	1.22	NO	1.0334	34.85	34.85	NO	1.000	1.001	1.00	10.0	NO
4	1.2.3.4.8-HPICD	1.7e4	4.21e4	1.74	1.22	NO	0.8922	34.94	34.95	NO	1.000	1.000	1.00	10.0	NO
5	1.2.3.7.8-HPICD	1.11e4	2.81e4	1.74	1.22	NO	1.0569	35.23	35.23	NO	1.000	1.000	1.00	10.0	NO
6	1.2.3.4.8.7.8-HPICD	1.13e4	7.82e4	1.94	1.01	NO	0.9615	36.77	36.77	NO	1.000	1.000	1.00	10.0	NO
7	ICD	2.34e5	5.39e5	0.65	0.64	NO	0.8138	41.72	41.73	NO	1.000	1.000	1.00	10.0	NO
8	2.2.7.6-ICD	4.01e4	9.39e4	0.77	0.77	NO	0.7518	25.61	25.63	NO	1.001	1.001	1.00	10.0	NO
9	1.2.7.6-ICD	3.21e4	7.34e4	1.24	1.25	NO	0.8923	30.21	30.20	NO	1.001	1.001	1.00	10.0	NO
10	2.2.4.7.8-HPICD	3.1e4	8.97e4	1.54	1.52	NO	0.9340	31.19	31.18	NO	1.000	1.000	1.00	10.0	NO
11	1.2.3.4.7.8-HPICD	1.89e5	4.19e5	1.24	1.23	NO	0.8545	33.95	33.97	NO	1.000	1.001	1.00	10.0	NO
12	1.2.3.5.7.8-HPICD	2.11e4	4.90e4	1.74	1.72	NO	0.8590	34.09	34.09	NO	1.000	1.000	1.00	10.0	NO
13	2.2.4.8.7.8-HPICD	2.01e5	4.36e5	1.24	1.23	NO	0.8341	34.70	34.69	NO	1.000	1.000	1.00	10.0	NO
14	1.2.3.7.8-HPICD	1.51e5	3.11e5	1.74	1.73	NO	0.8707	35.58	35.59	NO	1.000	1.000	1.00	10.0	NO
15	1.2.3.4.7.8-HPICD	1.36e5	3.16e5	1.08	0.99	NO	0.8734	37.39	37.37	NO	1.001	1.000	1.00	10.0	NO
16	1.2.3.4.7.8-HPICD	1.05e5	2.64e5	1.04	1.00	NO	1.0128	39.30	39.31	NO	1.000	1.000	1.00	10.0	NO
17	ICD	1.10e5	2.10e5	0.74	0.59	NO	0.2063	41.91	41.92	NO	1.000	1.000	1.00	10.0	NO
18	1.2.3.7.8-HPICD	7.10e5	8.10e5	0.77	0.75	NO	1.1562	28.14	28.50	NO	1.006	1.029	1.01	10.0	NO
19	1.2.3.4.7.8-HPICD	1.79e4	4.19e4	0.63	0.63	NO	0.8490	31.73	31.42	NO	1.000	1.001	1.00	10.0	NO
20	1.2.3.4.7.8-HPICD	1.90e4	4.23e4	1.24	1.24	NO	0.7790	34.84	34.84	NO	1.014	1.014	1.00	10.0	NO
21	1.2.3.4.7.8-HPICD	4.21e4	4.23e4	1.74	1.25	NO	1.0167	34.95	34.94	NO	1.017	1.017	1.00	10.0	NO



Dataset: Untitled

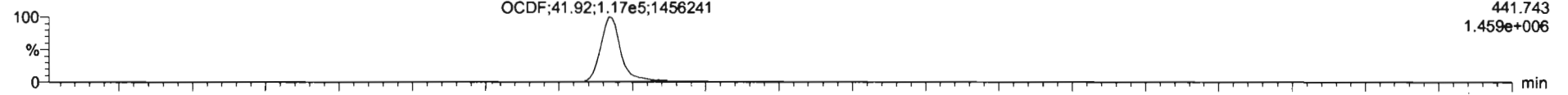
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Printed: Thursday, June 04, 2020 07:19:10 Pacific Daylight Time

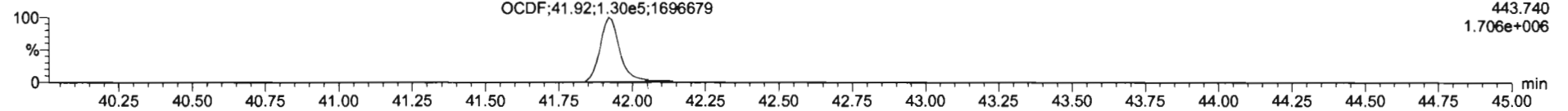
Name: 200603R2_2, Date: 03-Jun-2020, Time: 20:38:58, ID: ST200603R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDF

200603R2_2

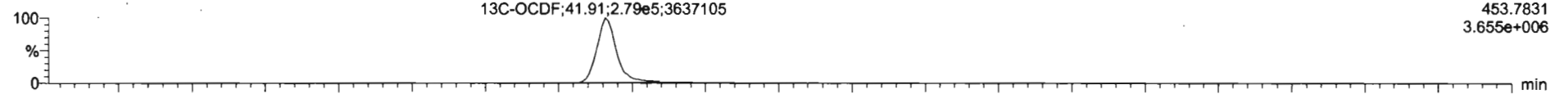


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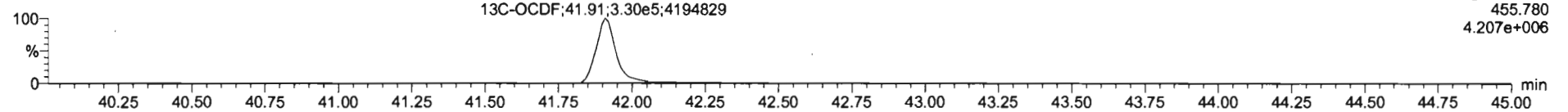


13C-OCDF

200603R2_2

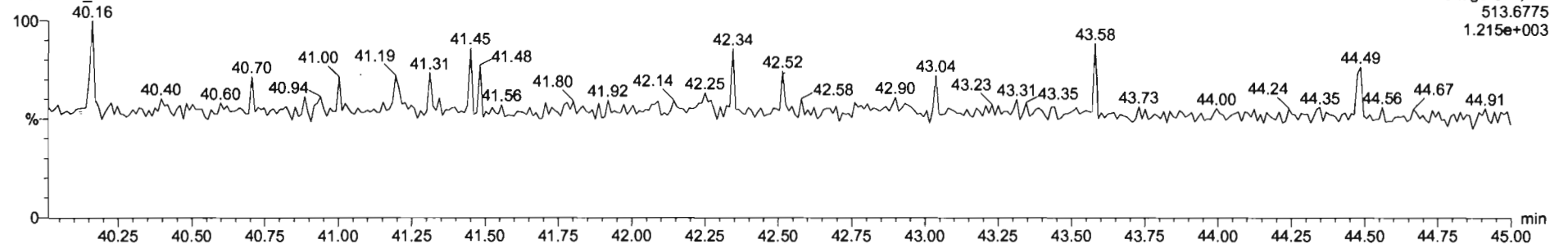


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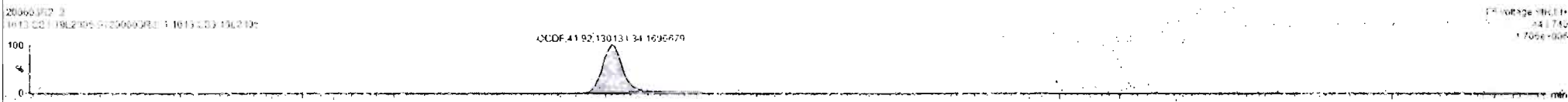


DPE5

200603R2_2



#	Name	Resp	S Resn	Prof RA	RA	pf	RRF	Prod RT	RT	RT Flag	Prod RRT	RRT	Corr	%Rec	STD out
1	1.2.3.7.6-CCDF	5.8e4	7.10e5	0.77	0.75	NO	0.6881	26.57	26.57	NO	1.001	1.001	97.0	12.6	NO
2	1.2.3.7.8-CCDF	2.07e5	4.70e6	0.61	0.61	NO	0.9081	31.49	31.48	NO	1.001	1.001	97.6	36.2	NO
3	1.2.3.4.7.8-HxCCDF	1.66e6	2.20e6	1.24	1.22	NO	1.0124	34.85	34.85	NO	1.000	1.000	99.2	99.1	NO
4	1.2.3.7.8-HxCCDF	1.74e5	4.21e5	1.24	1.22	NO	0.9177	34.34	34.95	NO	1.000	1.000	96.2	32.4	NO
5	1.2.3.7.8-HxCCDF	1.87e5	3.94e5	1.24	1.22	NO	0.9888	34.27	34.72	NO	1.000	1.000	95.0	30.1	NO
6	1.2.3.4.7.8-HxCCDF	1.11e5	2.87e5	1.04	1.01	NO	0.9825	36.77	38.77	NO	1.000	1.000	95.1	30.0	NO
7	CCDF	2.34e5	5.30e5	0.89	0.88	NO	0.9136	41.72	41.71	NO	1.000	1.000	96.7	32.7	NO
8	1.2.3.7.8-CCDF	6.01e4	9.39e5	0.77	0.77	NO	0.7510	25.88	25.63	NO	1.001	1.001	94.2	34.7	NO
9	1.2.3.7.8-CCDF	3.21e5	7.24e4	1.15	1.15	NO	0.9505	30.21	30.20	NO	1.001	1.001	49.1	28.1	NO
10	1.2.3.7.8-CCDF	3.17e5	6.99e5	1.15	1.12	NO	0.9340	31.19	31.18	NO	1.001	1.001	43.4	27.2	NO
11	1.2.3.4.7.8-HxCCDF	1.09e5	4.19e5	1.25	1.21	NO	0.8544	33.95	33.97	NO	1.000	1.001	51.2	35.2	NO
12	1.2.3.7.8-HxCCDF	3.11e5	4.50e5	1.24	1.22	NO	0.9872	34.20	34.68	NO	1.000	1.000	48.3	36.7	NO
13	1.2.3.4.7.8-HxCCDF	2.01e5	4.36e5	1.24	1.20	NO	0.9341	34.10	34.68	NO	1.001	1.000	48.1	36.8	NO
14	1.2.3.7.8-CCDF	1.11e5	3.11e5	1.24	1.21	NO	0.8797	35.58	35.59	NO	1.000	1.000	49.5	30.8	NO
15	1.2.3.4.7.8-HxCCDF	1.05e5	3.18e5	1.04	0.99	NO	0.9704	37.30	37.30	NO	1.001	1.000	48.6	39.5	NO
16	1.2.3.4.7.8-HxCCDF	1.06e5	2.04e5	1.04	1.00	NO	1.0128	39.30	39.31	NO	1.000	1.000	52.4	39.6	NO
17	CCDF	2.45e5	2.64e5	0.74	0.74	NO	0.8544	37.51	37.52	NO	1.000	1.000	52.0	36.0	NO
18	1.2.3.7.8-CCDF	1.0e5	8.10e5	0.77	0.76	NO	1.1561	26.54	26.50	NO	1.026	1.026	101	101	NO
19	1.2.3.7.8-HxCCDF	4.79e5	9.12e5	0.73	0.73	NO	0.8490	31.73	31.47	NO	1.221	1.217	92.4	32.4	NO
20	1.2.3.4.7.8-HxCCDF	1.20e5	4.23e5	1.24	1.27	NO	0.7750	34.84	34.84	NO	1.014	1.014	96.9	36.9	NO
21	1.2.3.7.8-HxCCDF	2.1e5	4.23e5	1.24	1.25	NO	1.0167	34.01	34.54	NO	1.017	1.017	97.9	37.9	NO



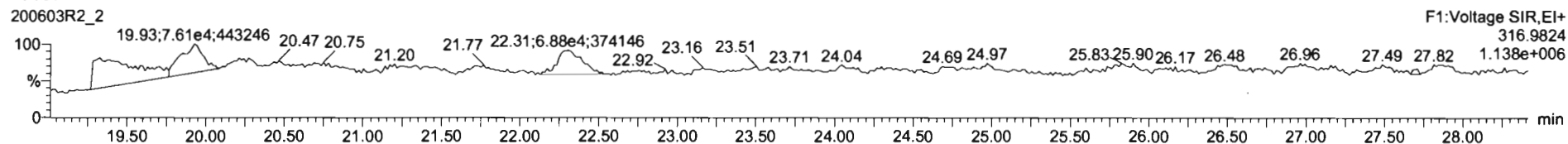
Dataset: Untitled

Last Altered: Thursday, June 04, 2020 07:18:37 Pacific Daylight Time

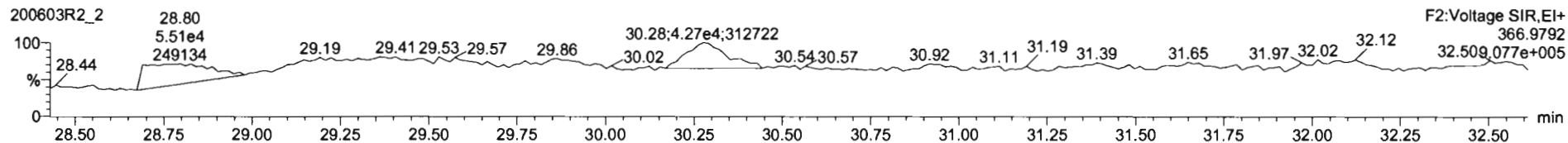
Printed: Thursday, June 04, 2020 07:19:10 Pacific Daylight Time

Name: 200603R2_2, Date: 03-Jun-2020, Time: 20:38:58, ID: ST200603R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

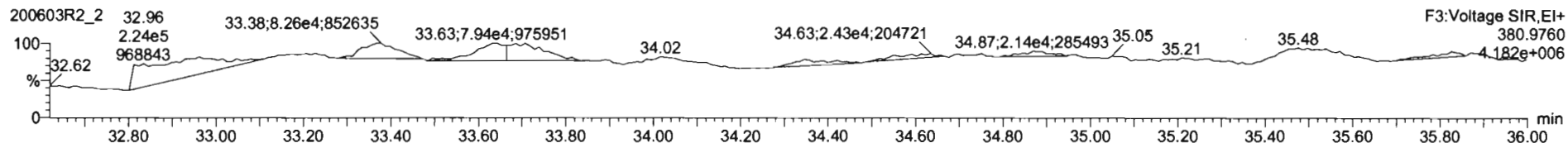
PFK1



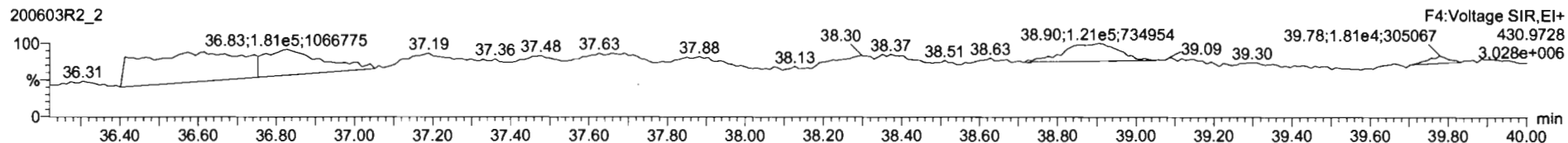
PFK2



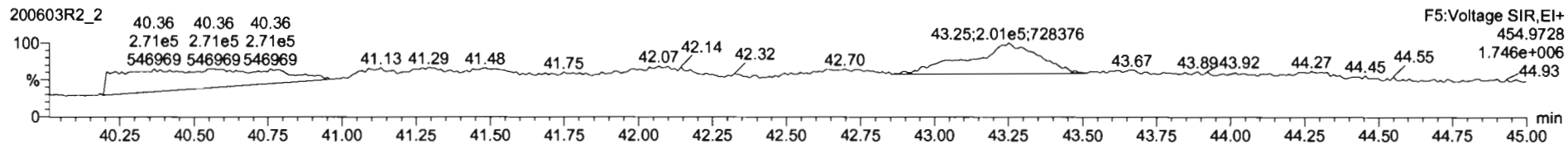
PFK3



PFK4

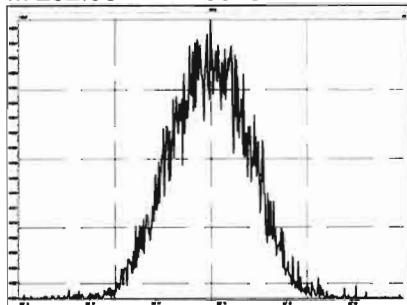


PFK5

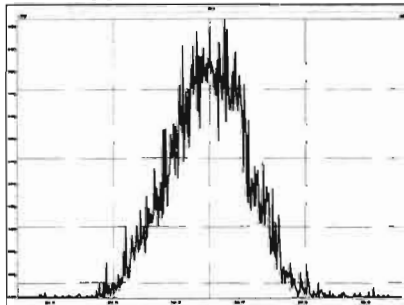


Printed: Thursday, June 04, 2020 03:43:55 Pacific Daylight Time

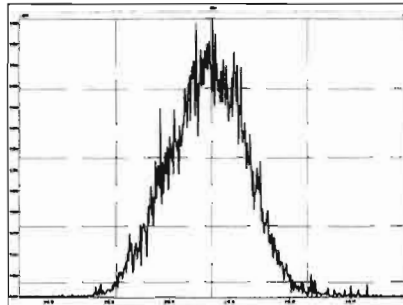
M 292.9824 R 10916



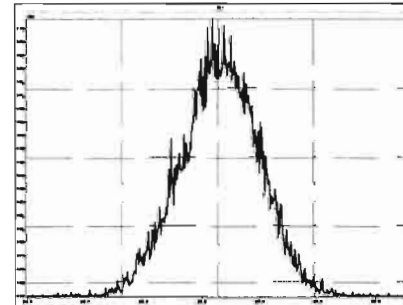
M 304.9824 R 11636



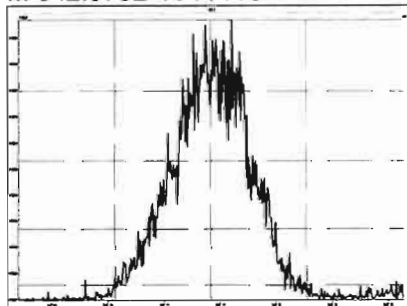
M 318.9792 R 10897



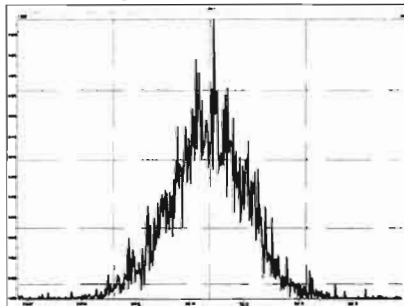
M 330.9792 R 10869



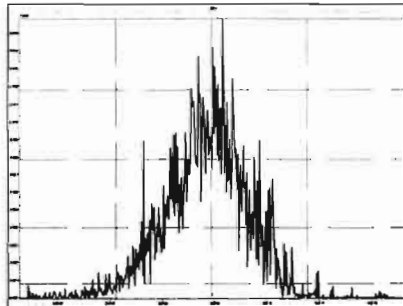
M 342.9792 R 11110



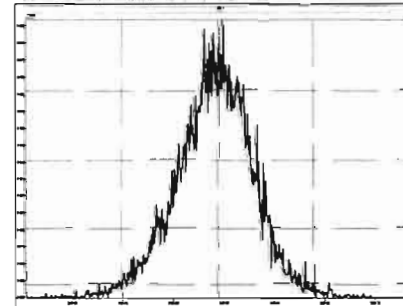
M 354.9792 R 11921



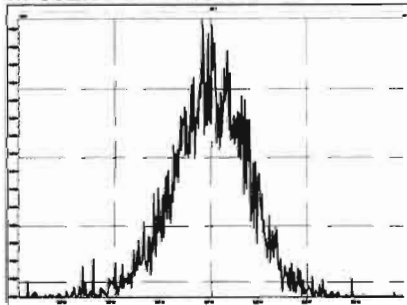
M 366.9792 R 11504



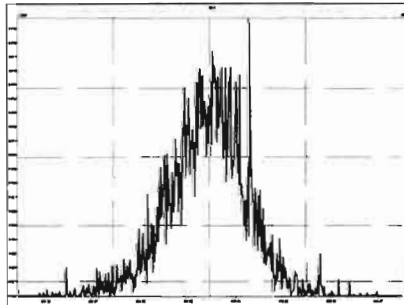
M 380.9760 R 11012



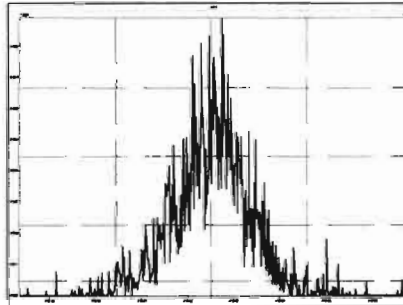
M 392.9760 R 12416



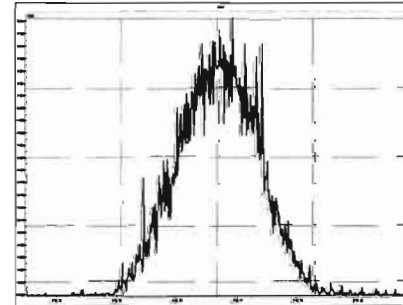
M 404.9760 R 13296



M 416.9760 R 14109

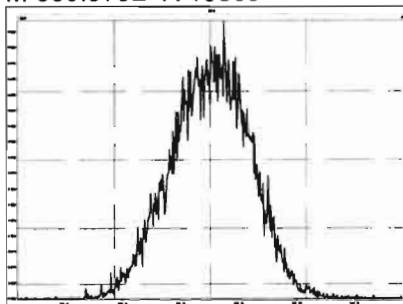


M 318.9792 R 10972

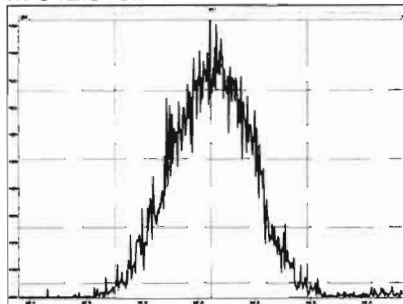


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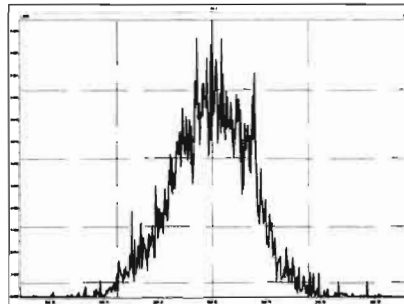
M 330.9792 R 10869



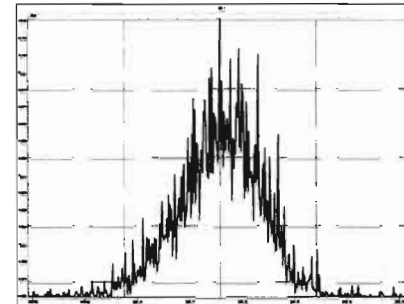
M 342.9792 R 11659



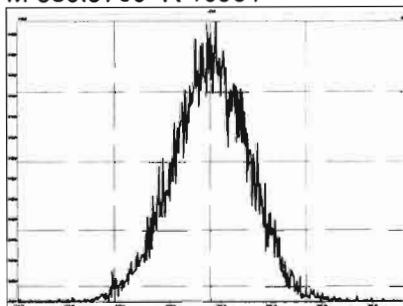
M 354.9792 R 11561



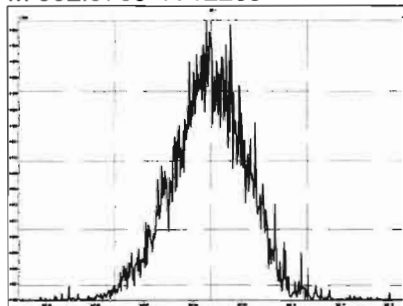
M 366.9792 R 12213



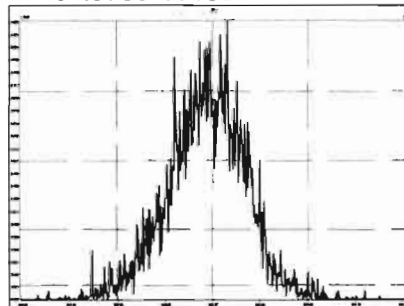
M 380.9760 R 10991



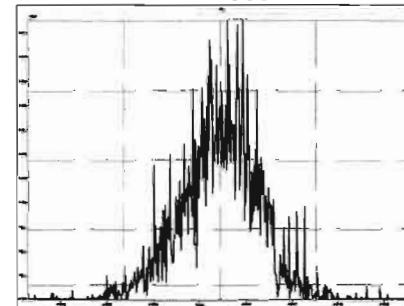
M 392.9760 R 12259



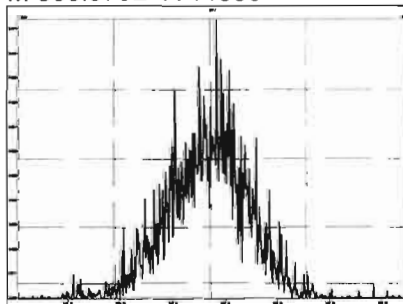
M 404.9760 R 13822



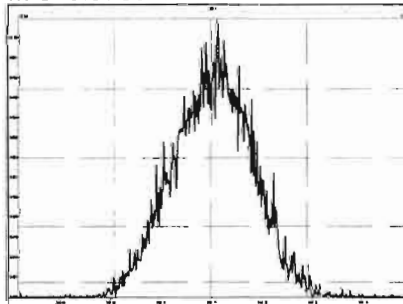
M 416.9760 R 14009



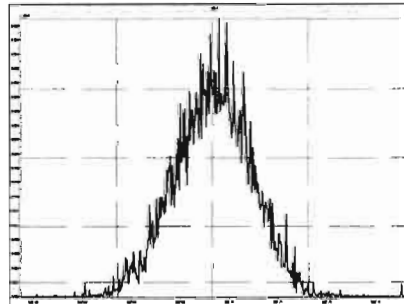
M 366.9792 R 11990



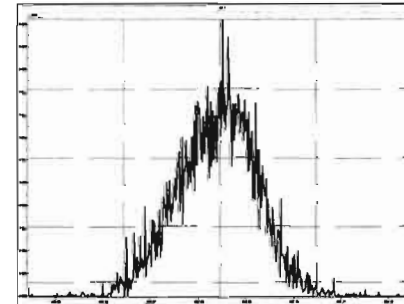
M 380.9760 R 10893



M 392.9760 R 11261

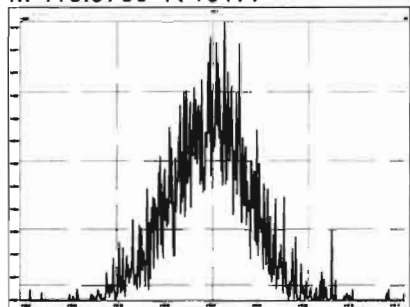


M 404.9760 R 11966

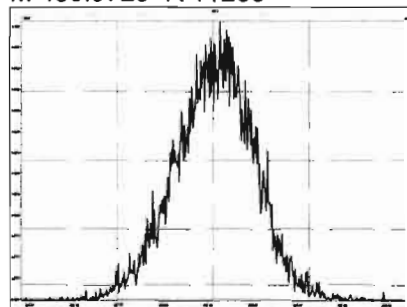


Printed: Thursday, June 04, 2020 03:43:55 Pacific Daylight Time

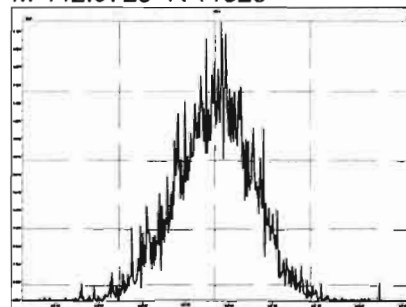
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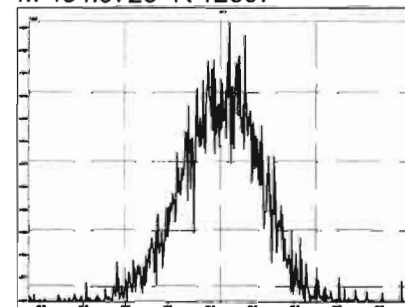
M 430.9728 R 11238



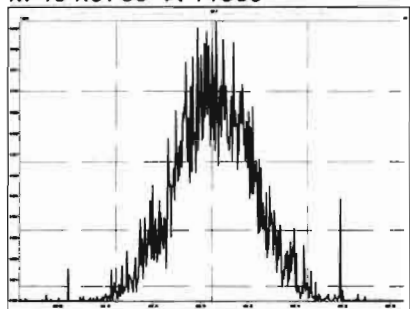
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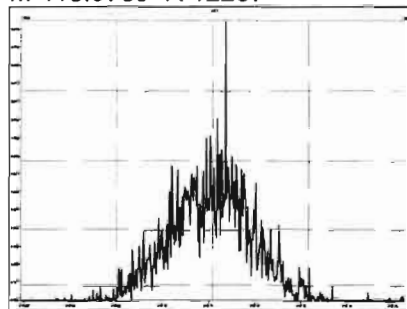
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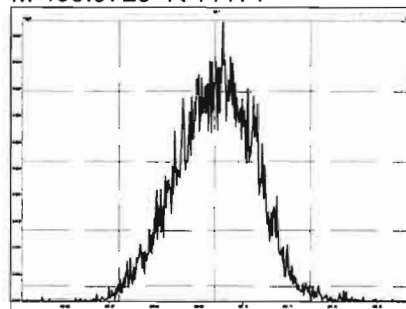
M 404.9760 R 11569



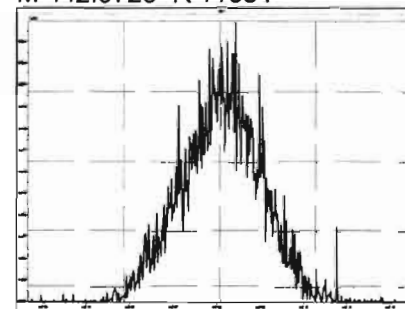
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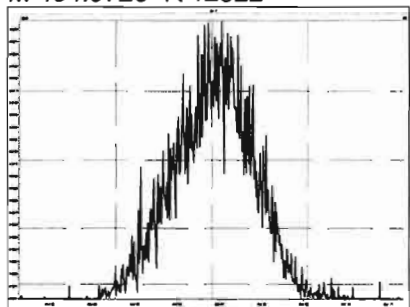
M 430.9728 R 11171



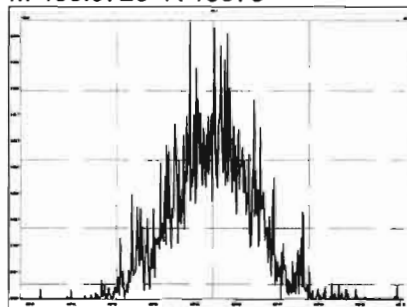
M 442.9728 R 11684



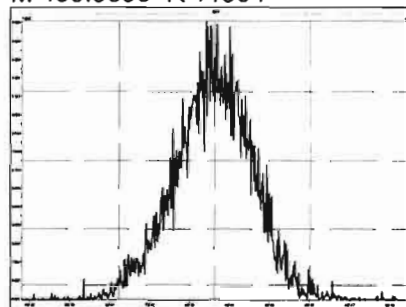
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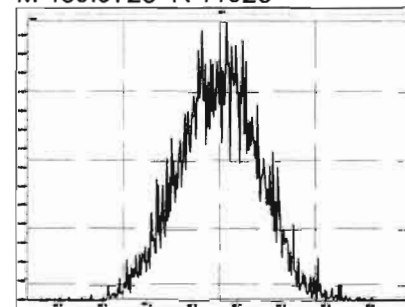
M 466.9728 R 13675



M 480.9696 R 11904

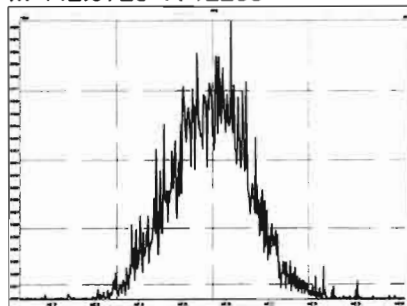


M 430.9728 R 11026

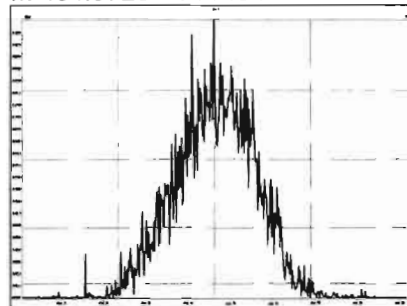


Printed: Thursday, June 04, 2020 03:43:55 Pacific Daylight Time

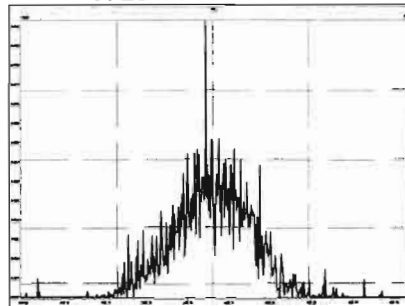
M 442.9728 R 12265



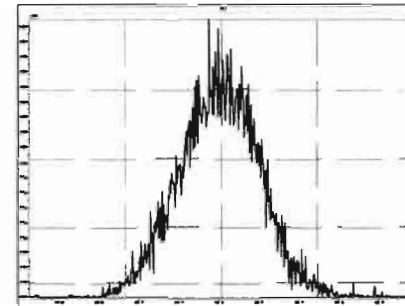
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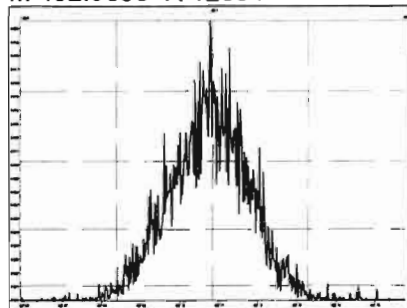
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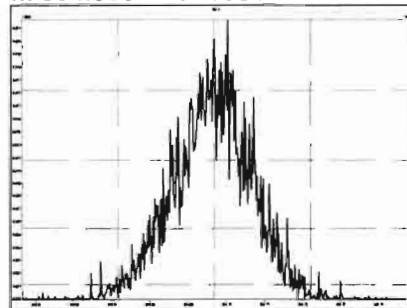
M 480.9696 R 11529



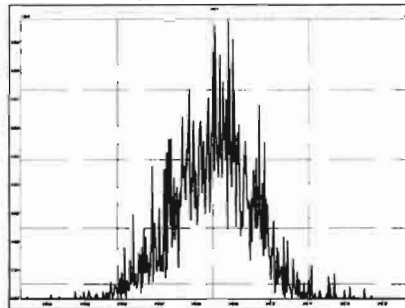
M 492.9696 R 12634



M 504.9696 R 11961



M 516.9697 R 14450



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

11
Beg. Calibration ID: ST200618R1-1

Reviewed By: OT 06/19/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	<u> </u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox" value="Y"/>
- Samples within 12 hour clock?	<input checked="" type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>
- Bottle position verified?	<u>GRB</u>	<u> </u>

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
GC Break <20%		<input type="checkbox" value="NA"/>
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox" value="NA"/>

Comments:

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-1.qld

Last Altered: Thursday, June 18, 2020 13:58:48 Pacific Daylight Time

Printed: Thursday, June 18, 2020 13:59:00 Pacific Daylight Time

GPB 06/18/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

CT 06/19/2020

Name: 200618R1_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	5.35e4	6.03e5	0.75	NO	0.888	26.50	26.48	NO	1.001	1.001	9.9868	99.9	NO
2	2 1,2,3,7,8-PeCDD	1.92e5	4.13e5	0.61	NO	0.908	31.47	31.45	NO	1.001	1.000	51.283	103	NO
3	3 1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.32	NO	1.03	34.84	34.84	NO	1.000	1.000	50.371	101	NO
4	4 1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.18	NO	0.892	34.92	34.93	NO	1.000	1.000	49.840	99.7	NO
5	5 1,2,3,7,8,9-HxCDD	1.66e5	3.73e5	1.21	NO	0.887	35.22	35.22	NO	1.000	1.000	50.179	100	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.13e5	2.62e5	1.03	NO	0.864	38.76	38.77	NO	1.000	1.001	50.073	100	NO
7	7 OCDD	2.11e5	4.74e5	0.87	NO	0.914	41.74	41.75	NO	1.000	1.000	97.209	97.2	NO
8	8 2,3,7,8-TCDF	5.78e4	8.25e5	0.75	NO	0.751	25.60	25.59	NO	1.001	1.001	9.3233	93.2	NO
9	9 1,2,3,7,8-PeCDF	2.90e5	6.36e5	1.53	NO	0.893	30.17	30.17	NO	1.001	1.001	51.141	102	NO
10	10 2,3,4,7,8-PeCDF	2.87e5	6.10e5	1.63	NO	0.935	31.18	31.15	NO	1.001	1.000	50.397	101	NO
11	11 1,2,3,4,7,8-HxCDF	1.73e5	3.88e5	1.22	NO	0.884	33.94	33.96	NO	1.000	1.001	50.456	101	NO
12	12 1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.22	NO	0.889	34.08	34.08	NO	1.000	1.000	48.205	96.4	NO
13	13 2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.19	NO	0.934	34.69	34.67	NO	1.001	1.000	48.229	96.5	NO
14	14 1,2,3,7,8,9-HxCDF	1.36e5	3.25e5	1.22	NO	0.871	35.57	35.58	NO	1.000	1.000	48.064	96.1	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.28e5	3.01e5	0.99	NO	0.873	37.38	37.36	NO	1.001	1.001	48.842	97.7	NO
16	16 1,2,3,4,7,8,9-HpCDF	9.38e4	1.90e5	1.00	NO	1.01	39.30	39.31	NO	1.000	1.000	48.691	97.4	NO
17	17 OCDF	2.04e5	5.41e5	0.89	NO	0.806	41.93	41.94	NO	1.000	1.000	93.487	93.5	NO
13	18 13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.80	NO	1.16	26.49	26.47	NO	1.026	1.026	99.293	99.3	NO
19	19 13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	NO	0.849	31.67	31.45	NO	1.227	1.219	92.647	92.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.29	NO	0.779	34.82	34.83	NO	1.014	1.014	87.117	87.1	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.29	NO	1.02	34.93	34.92	NO	1.017	1.017	105.93	106	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.73e5	4.16e5	1.29	NO	0.903	35.20	35.21	NO	1.025	1.025	99.156	99.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.62e5	4.16e5	1.04	NO	0.689	38.73	38.74	NO	1.128	1.128	91.175	91.2	NO
24	24 13C-OCDD	4.74e5	4.16e5	0.92	NO	0.652	41.75	41.74	NO	1.216	1.216	174.72	87.4	NO
25	25 13C-2,3,7,8-TCDF	8.25e5	8.11e5	0.76	NO	1.06	25.53	25.57	NO	0.989	0.991	96.028	96.0	NO
26	26 13C-1,2,3,7,8-PeCDF	6.36e5	8.11e5	1.61	NO	0.838	30.06	30.15	NO	1.165	1.168	93.545	93.5	NO
27	27 13C-2,3,4,7,8-PeCDF	6.10e5	8.11e5	1.64	NO	0.817	31.01	31.15	NO	1.202	1.207	92.051	92.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.88e5	4.16e5	0.50	NO	1.01	33.95	33.94	NO	0.989	0.989	92.619	92.6	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.05e5	4.16e5	0.53	NO	1.17	34.07	34.07	NO	0.992	0.992	103.88	104	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.23e5	4.16e5	0.49	NO	1.02	34.65	34.65	NO	1.009	1.009	99.576	99.6	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.25e5	4.16e5	0.47	NO	0.860	35.55	35.57	NO	1.035	1.036	90.895	90.9	NO

Dataset: U:\VG12.PRO\Results\200618R1\200618R1-1.qld

Last Altered: Thursday, June 18, 2020 13:58:48 Pacific Daylight Time

Printed: Thursday, June 18, 2020 13:59:00 Pacific Daylight Time

Name: 200618R1_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.01e5	4.16e5	0.41	NO	0.774	37.30	37.34	NO	1.086	1.087	93.239	93.2	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.90e5	4.16e5	0.41	NO	0.521	39.32	39.30	NO	1.145	1.145	87.672	87.7	NO
34	34 13C-OCDF	5.41e5	4.16e5	0.85	NO	0.746	41.92	41.93	NO	1.221	1.221	174.43	87.2	NO
35	35 37Cl-2,3,7,8-TCDD	5.37e4	5.25e5			1.04	26.52	26.48	NO	1.028	1.026	9.8770	98.8	NO
36	36 13C-1,2,3,4-TCDD	5.25e5	5.25e5	0.80	NO	1.00	25.89	25.81	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.11e5	8.11e5	0.79	NO	1.00	24.36	24.12	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.16e5	4.16e5	0.51	NO	1.00	34.42	34.34	NO	1.000	1.000	100.00	100	YESOK

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, June 19, 2020 07:24:58 Pacific Daylight Time

Printed: Friday, June 19, 2020 07:25:14 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

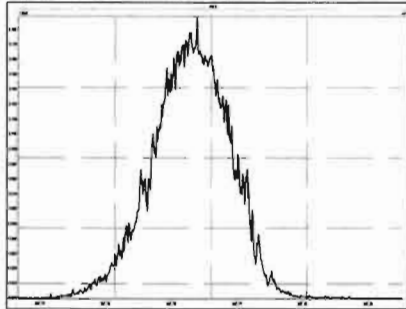
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200618R1_1	ST200618R1_1 1613 CS3 19L2305	18-Jun-20	13:05:09
2	200618R1_2	B0E0232-BS1 OPR 10	18-Jun-20	13:52:57
3	200618R1_3	B0F0044-BS1 OPR 10	18-Jun-20	14:39:07
4	200618R1_4	SOLVENT BLANK	18-Jun-20	15:25:46
5	200618R1_5	B0E0232-BLK1 Method Blank 10	18-Jun-20	16:12:01
6	200618R1_6	B0F0044-BLK1 Method Blank 10	18-Jun-20	16:58:13
7	200618R1_7	B0F0113-BLK1 Method Blank 1	18-Jun-20	17:44:25
8	200618R1_8	2001033-02 PDI-087SC-B-02-05-200509 21.1	18-Jun-20	18:30:37
9	200618R1_9	2001033-03 PDI-087SC-B-05-07-200509 19.38	18-Jun-20	19:16:49
10	200618R1_10	2001033-04 PDI-089SC-B-00-02-200509 25.42	18-Jun-20	20:03:01
11	200618R1_11	2001033-05 PDI-089SC-B-02-05-200509 20.54	18-Jun-20	20:49:13
12	200618R1_12	2001033-06 PDI-089SC-B-05-07-200509 25.5	18-Jun-20	21:35:26
13	200618R1_13	2000965-05RE1 PDI-150SC-A-04-05-200425 ...	18-Jun-20	22:21:39
14	200618R1_14	2000855-15RE2 PDI-076SC-A-06-07-191013 ...	18-Jun-20	23:07:52
15	200618R1_15	B0F0044-DUP1 Duplicate 12.5	18-Jun-20	23:54:03

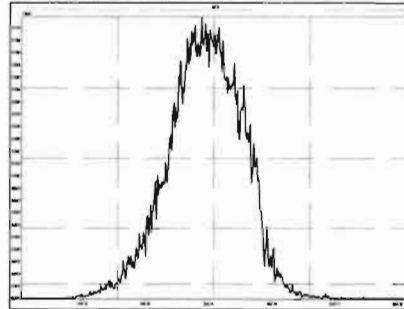
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, June 18, 2020 12:59:07 Pacific Daylight Time

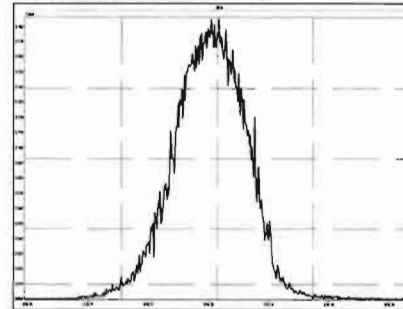
M 292.9824 R 10914



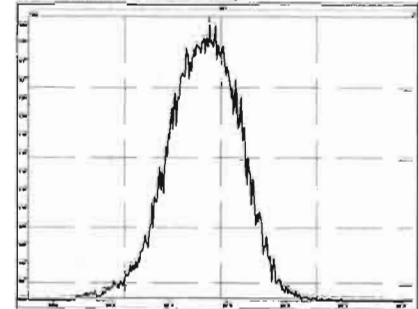
M 304.9824 R 11313



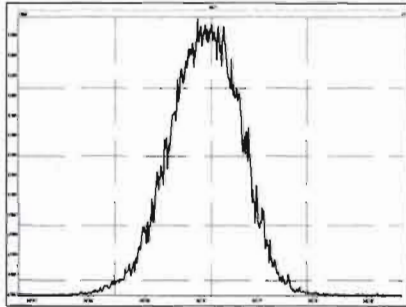
M 318.9792 R 11960



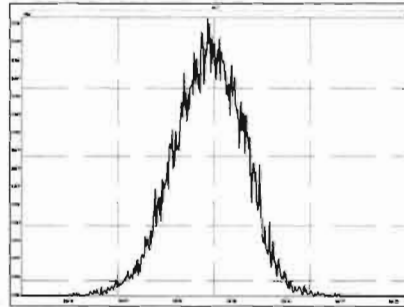
M 330.9792 R 11844



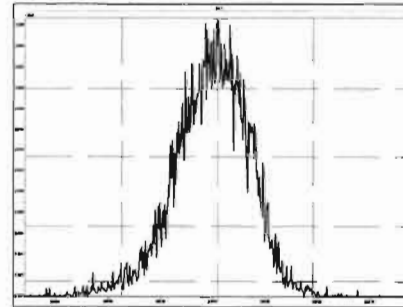
M 342.9792 R 11847



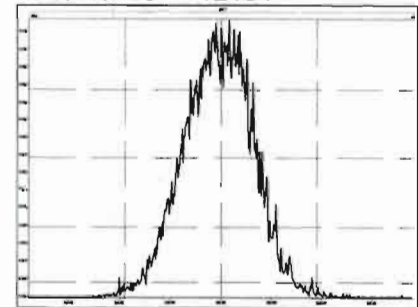
M 354.9792 R 11794



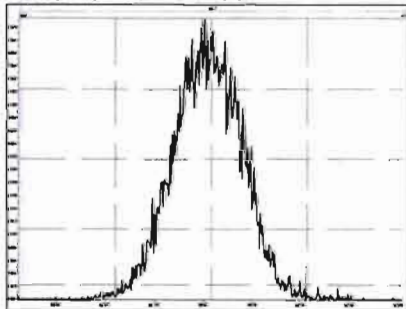
M 366.9792 R 12315



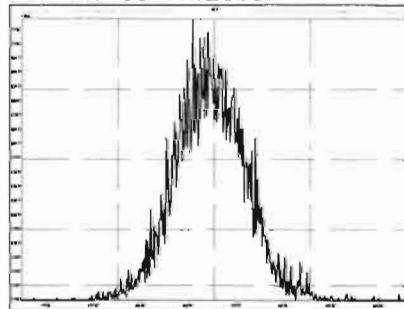
M 380.9760 R 12134



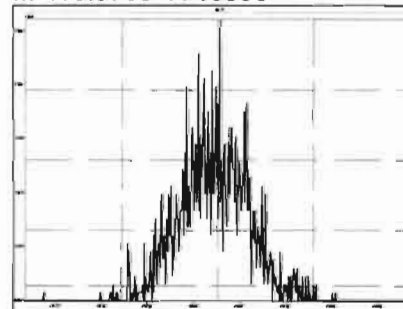
M 392.9760 R 12887



M 404.9760 R 12313



M 416.9760 R 15056



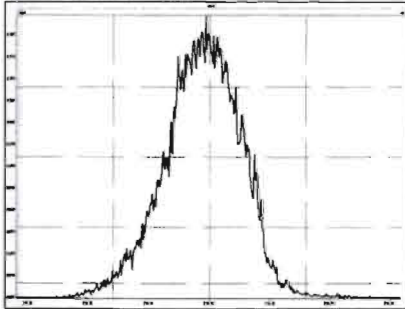
Experiment Calibration Report

MassLynx 4.1 SCN815

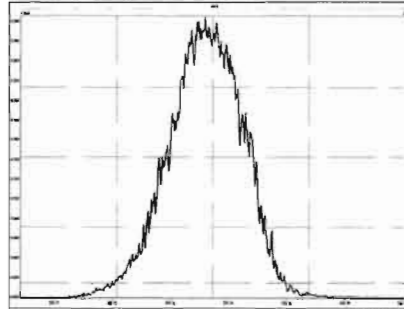
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, June 18, 2020 12:59:52 Pacific Daylight Time

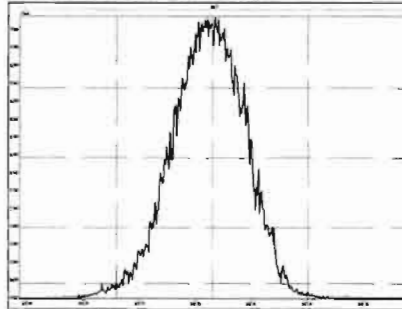
M 318.9792 R 11012



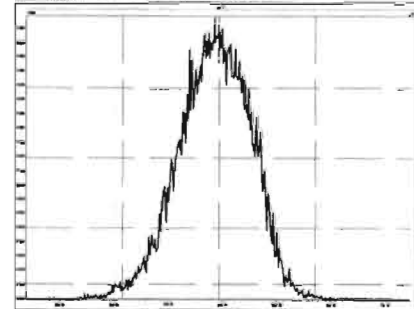
M 330.9792 R 11263



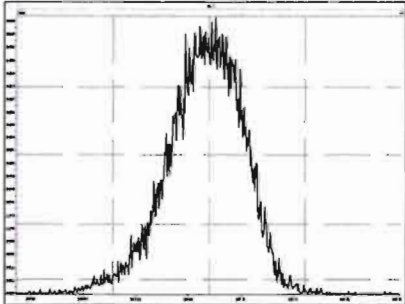
M 342.9792 R 11628



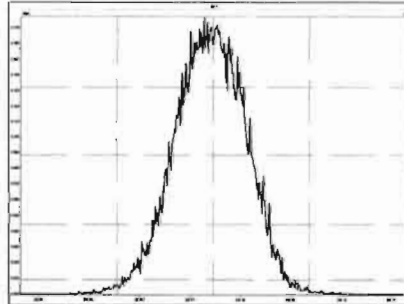
M 354.9792 R 12503



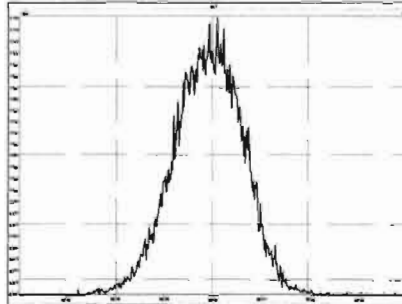
M 366.9792 R 12190



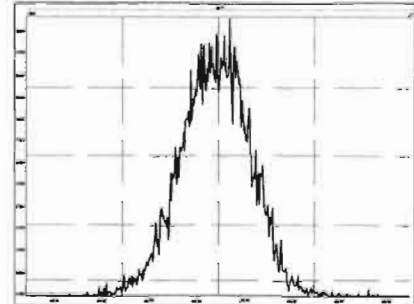
M 380.9760 R 11960



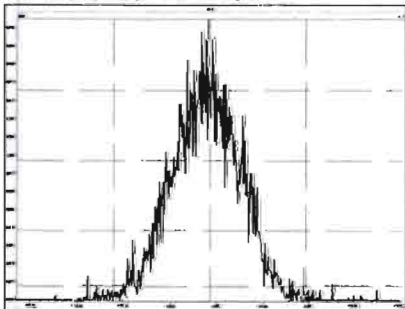
M 392.9760 R 12312



M 404.9760 R 12819



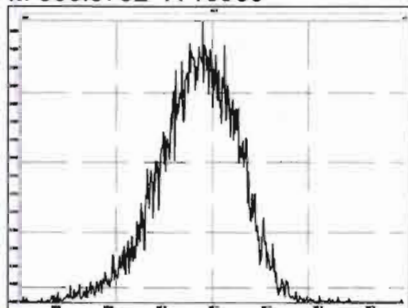
M 416.9760 R 14453



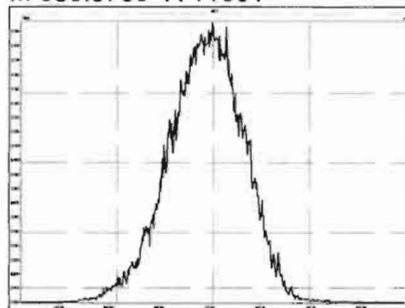
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, June 18, 2020 13:00:18 Pacific Daylight Time

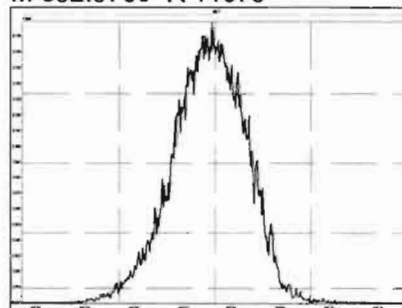
M 366.9792 R 10966



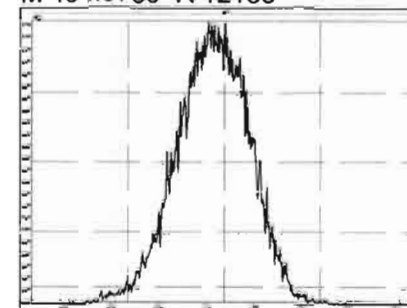
M 380.9760 R 11061



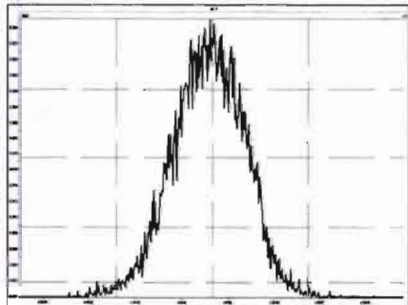
M 392.9760 R 11679



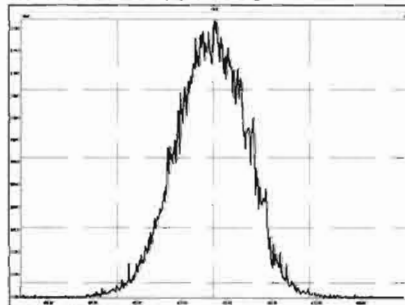
M 404.9760 R 12135



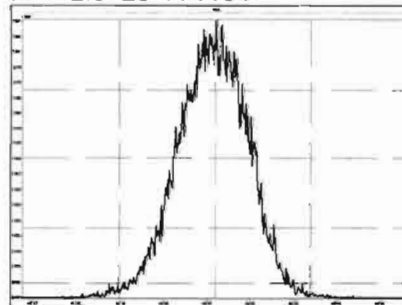
M 416.9760 R 11902



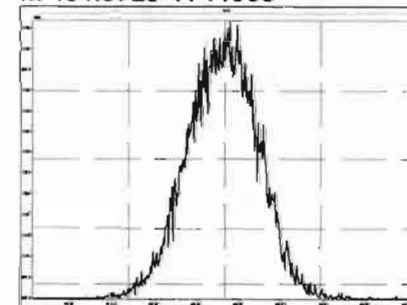
M 430.9728 R 11905



M 442.9728 R 11847



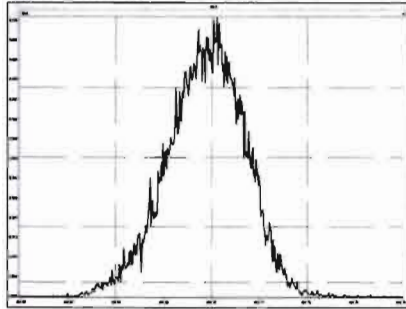
M 454.9728 R 11958



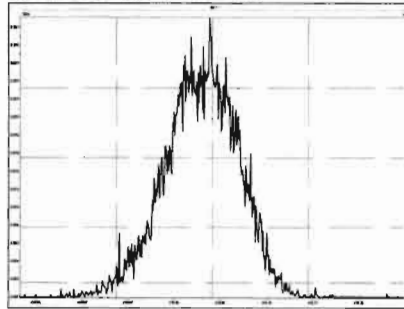
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Printed: Thursday, June 18, 2020 13:00:40 Pacific Daylight Time

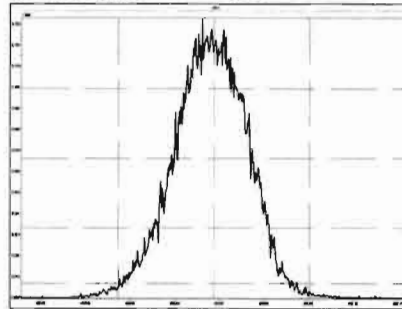
M 404.9760 R 11161



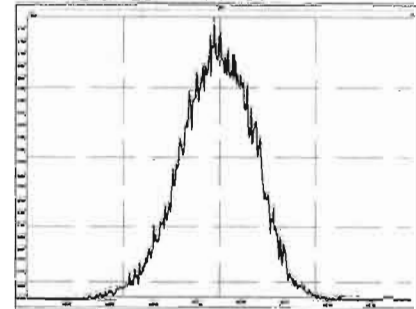
M 416.9760 R 12253



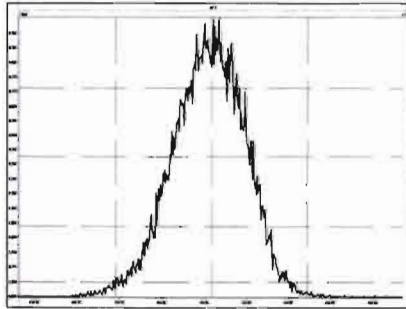
M 430.9728 R 11469



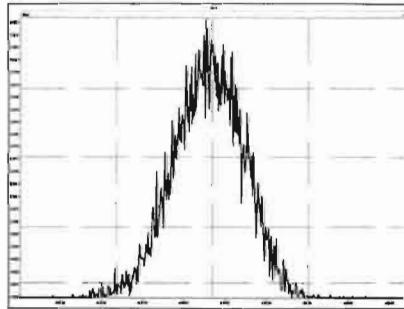
M 442.9728 R 11467



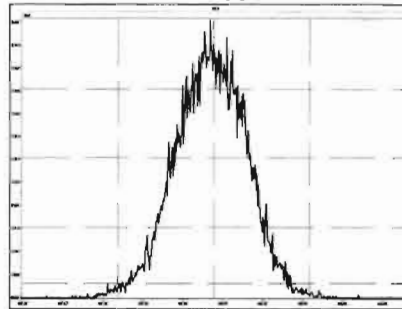
M 454.9728 R 11572



M 466.9728 R 12953



M 480.9696 R 11903



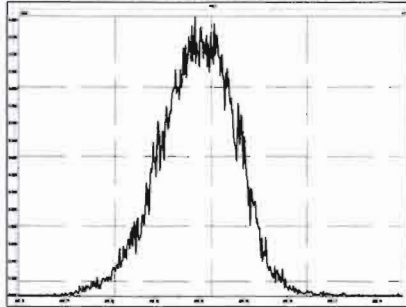
Experiment Calibration Report

MassLynx 4.1 SCN815

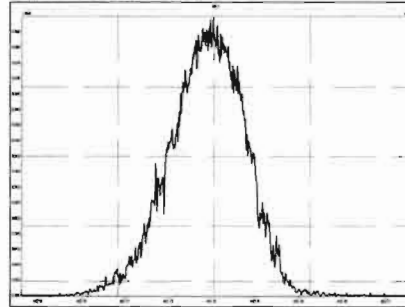
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, June 18, 2020 13:01:05 Pacific Daylight Time

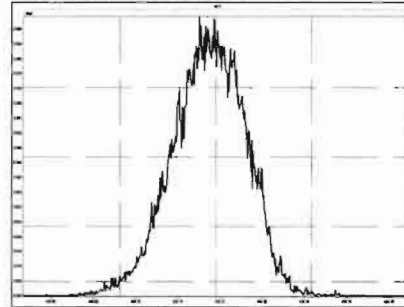
M 430.9728 R 10463



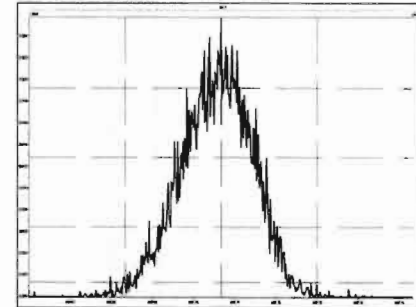
M 442.9728 R 11794



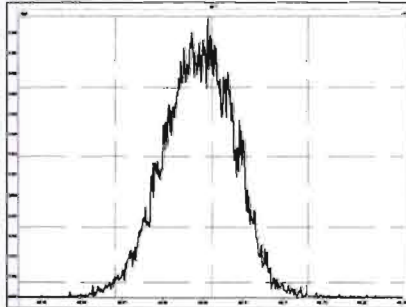
M 454.9728 R 11467



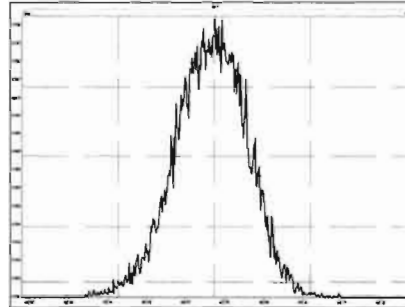
M 466.9728 R 12818



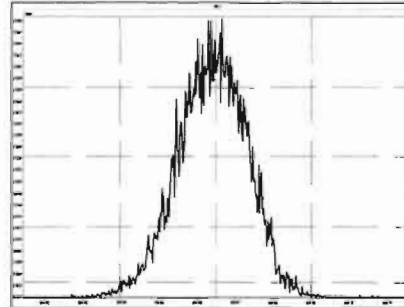
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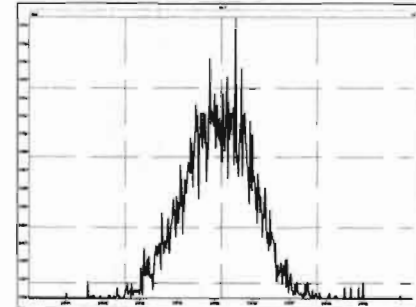
M 492.9696 R 11961



M 504.9696 R 12377



M 516.9697 R 13227



Dataset: Untitled

Last Altered: Thursday, June 18, 2020 13:52:10 Pacific Daylight Time

Printed: Thursday, June 18, 2020 13:52:15 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200618R1_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.44
2	2 1,2,8,9-TCDD (Last)	27.44
3	3 1,2,4,7,9-PeCDD (First)	29.24
4	4 1,2,3,8,9-PeCDD (Last)	31.85
5	5 1,2,4,6,7,9-HxCDD (First)	33.32
6	6 1,2,3,7,8,9-HxCDD (Last)	35.22
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.74
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.77
9	9 1,3,6,8-TCDF (First)	20.32
10	10 1,2,8,9-TCDF (Last)	27.61
11	11 1,3,4,6,8-PeCDF (First)	27.56
12	12 1,2,3,8,9-PeCDF (Last)	32.09
13	13 1,2,3,4,6,8-HxCDF (First)	32.78
14	14 1,2,3,7,8,9-HxCDF (Last)	35.58
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.36
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.31

Dataset: Untitled

Last Altered: Thursday, June 18, 2020 13:52:10 Pacific Daylight Time

Printed: Thursday, June 18, 2020 13:52:15 Pacific Daylight Time

GRB 06/18/2020

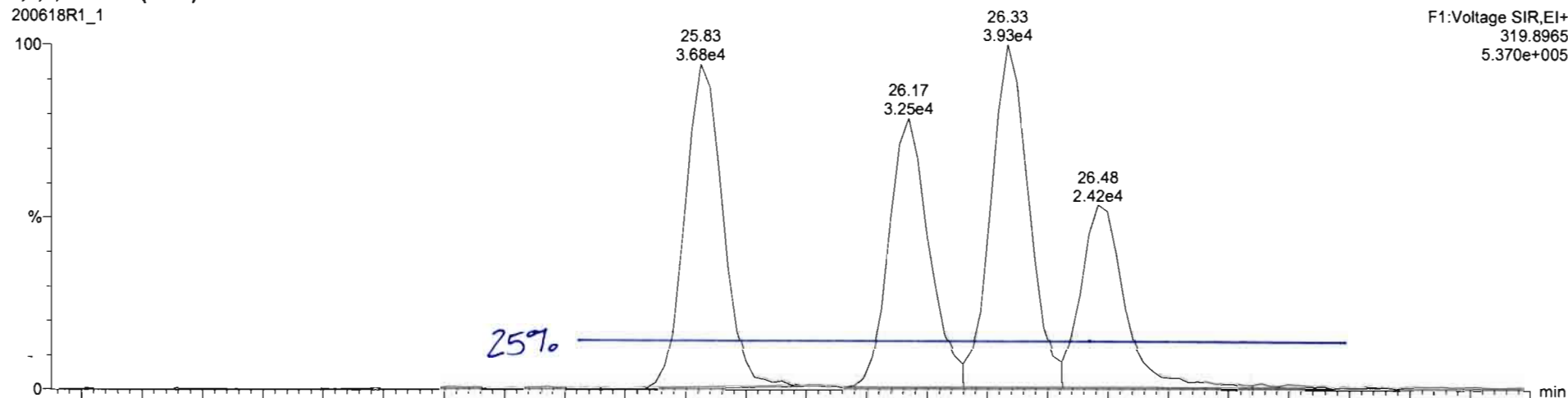
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

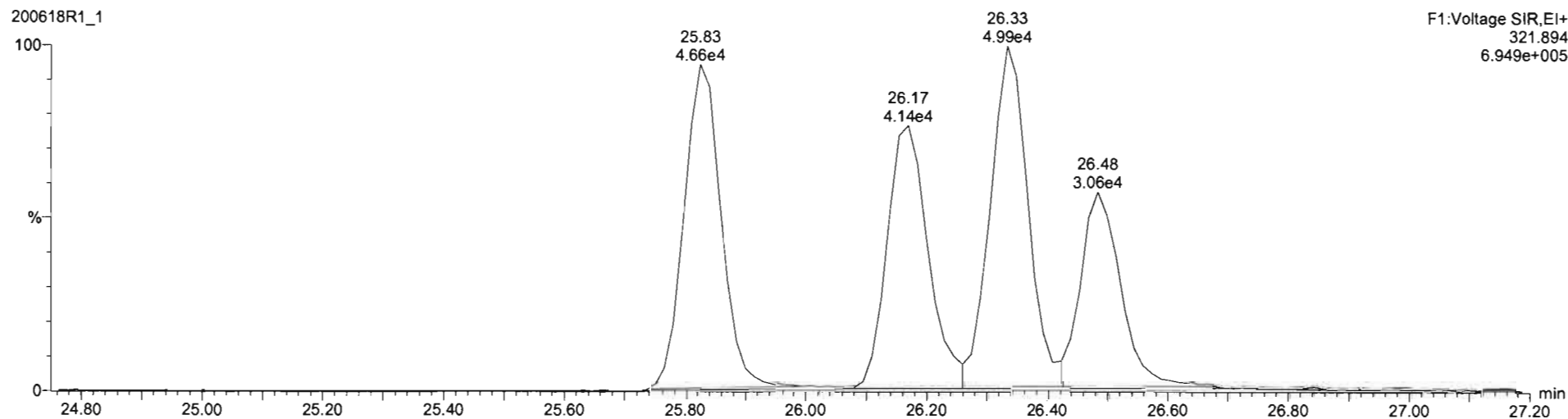
Name: 200618R1_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200618R1_1



200618R1_1



Dataset: Untitled

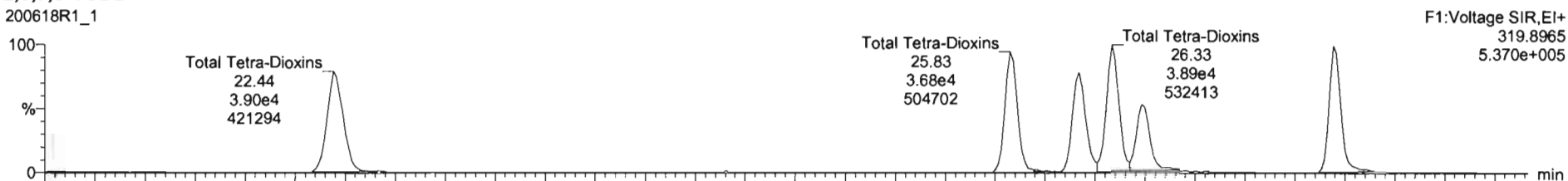
Last Altered: Thursday, June 18, 2020 13:53:51 Pacific Daylight Time
Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

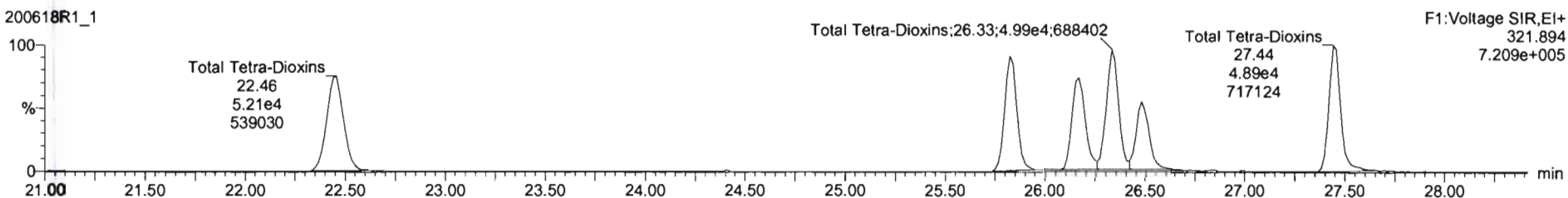
Name: 200618R1_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200618R1_1

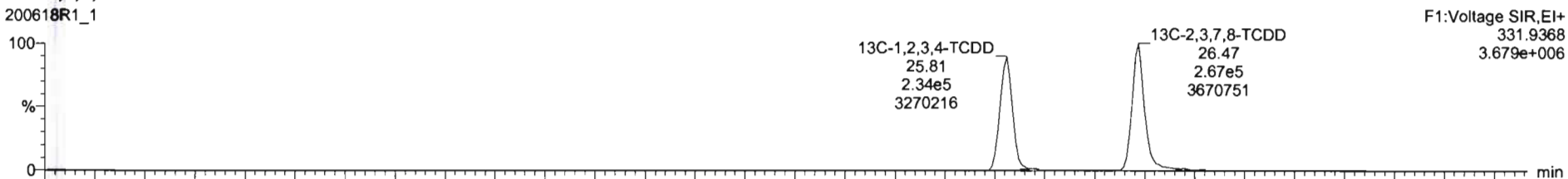


200618R1_1

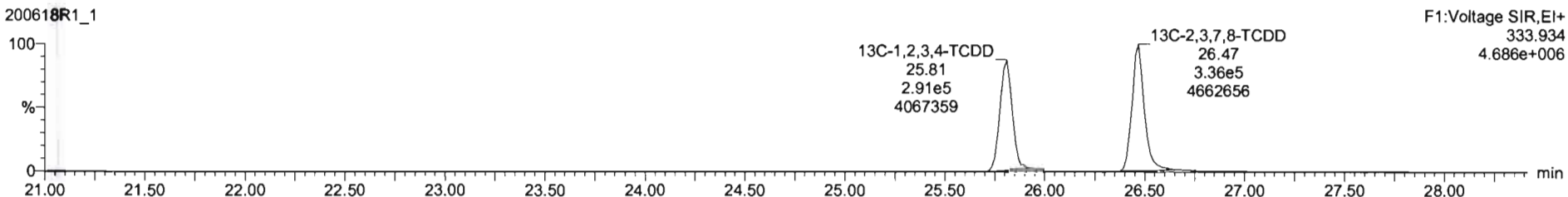


13C-2,3,7,8-TCDD

200618R1_1



200618R1_1



Dataset: Untitled

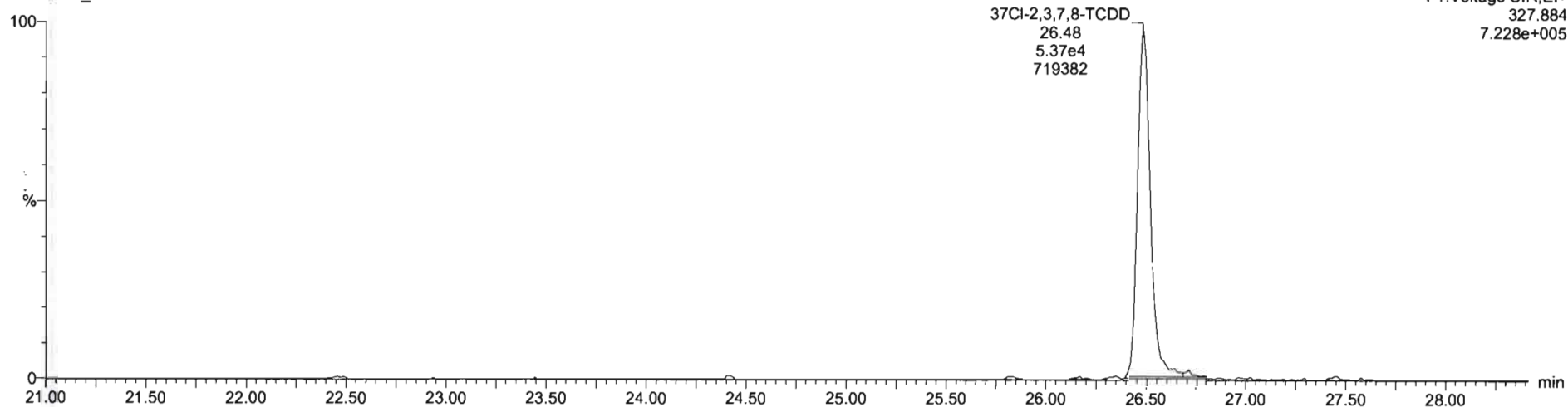
Last Altered: Thursday, June 18, 2020 13:53:51 Pacific Daylight Time

Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

Name: 200618R1_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

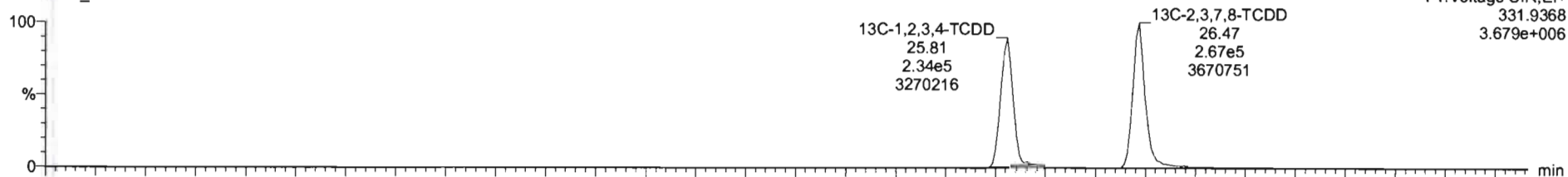
37Cl-2,3,7,8-TCDD

200618R1_1

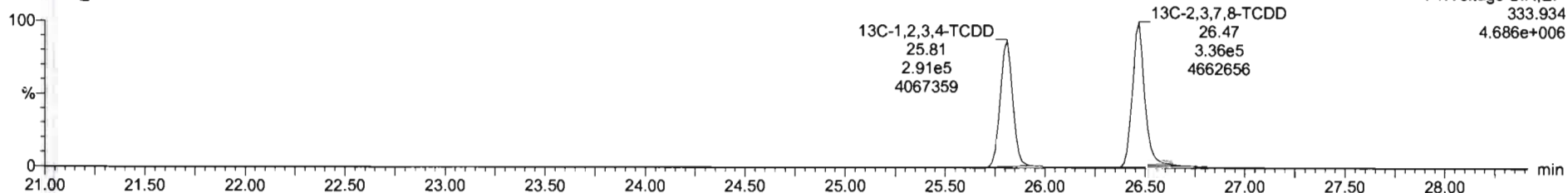


13C-1,2,3,4-TCDD

200618R1_1



200618R1_1



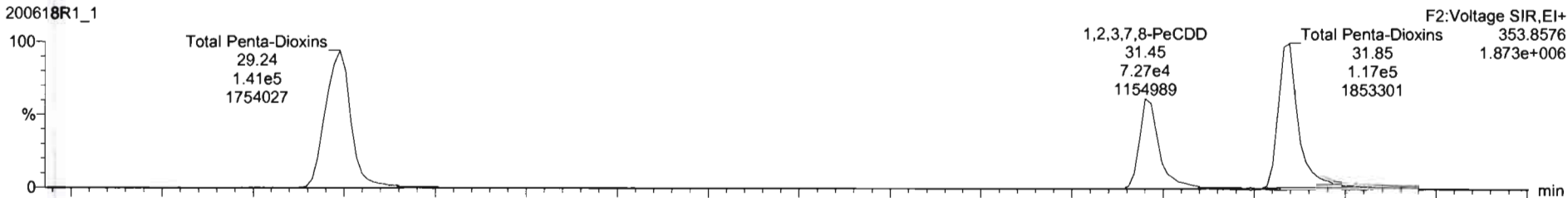
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Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

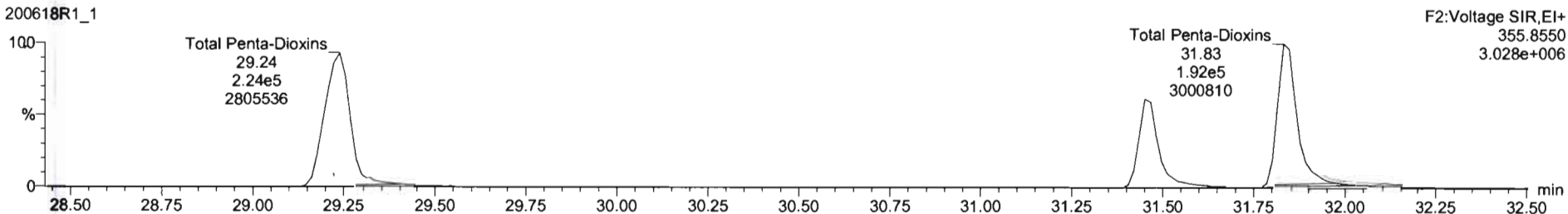
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1,2,3,7,8-PeCDD

200618R1_1

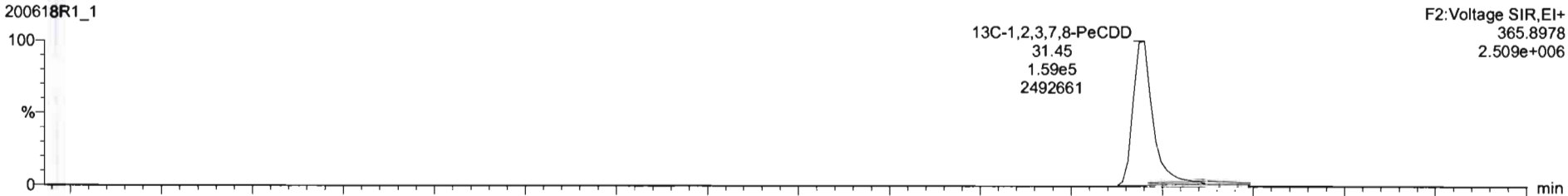


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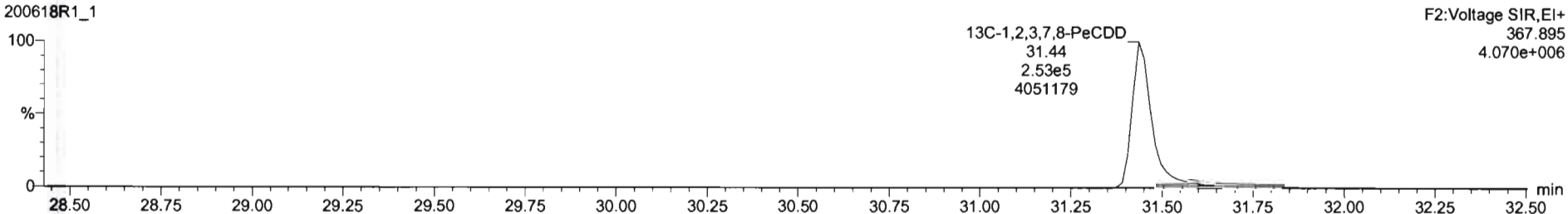


¹³C-1,2,3,7,8-PeCDD

200618R1_1



200618R1_1



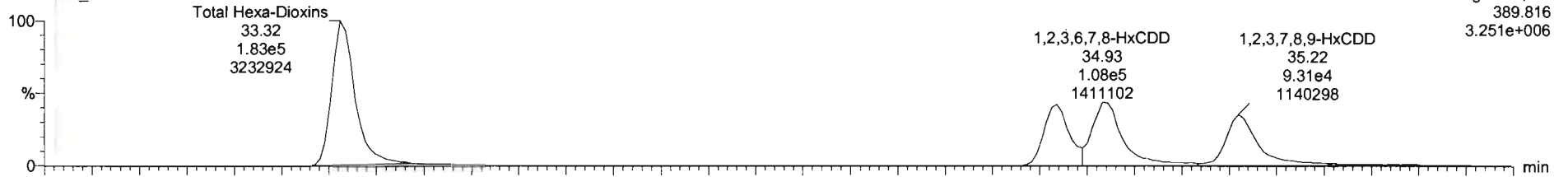
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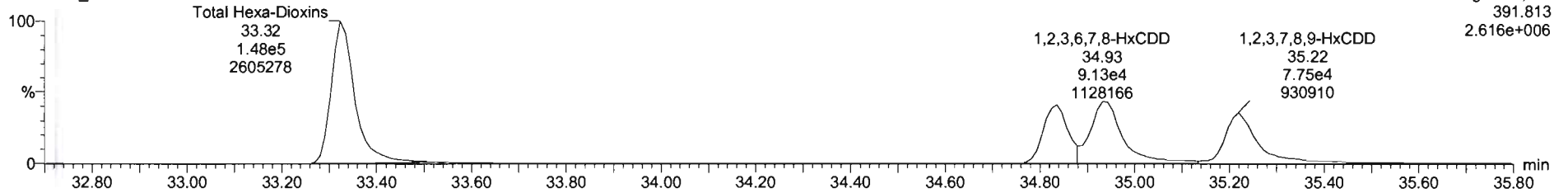
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1,2,3,4,7,8-HxCDD

200618R1_1

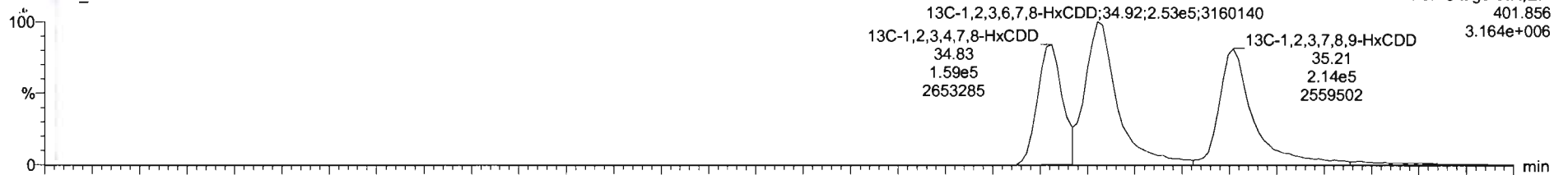


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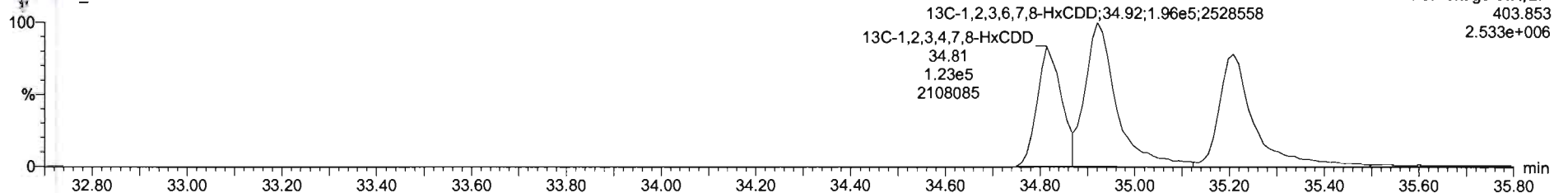


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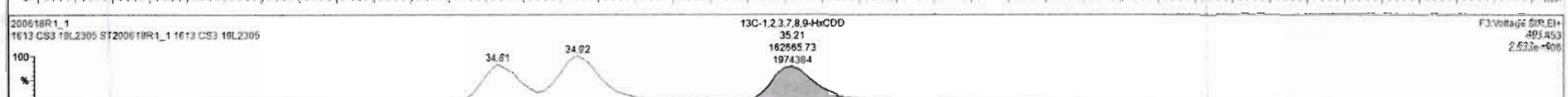
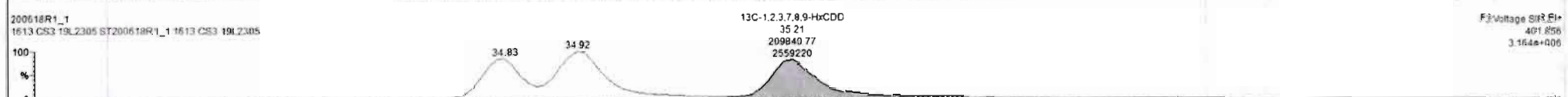
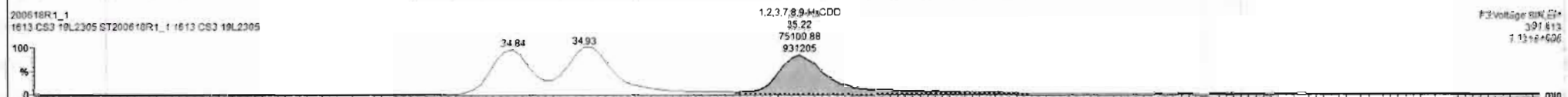
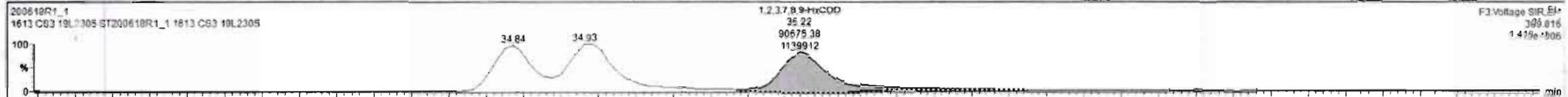
200618R1_1



200618R1_1



#	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	5.25e4	6.03e5	0.77	0.75	NO	0.8883	26.50	26.48	NO	1.001	1.001	9.99	99.9	NO
2	1,2,3,7,8-PeCDD	1.92e5	4.13e5	0.63	0.61	NO	0.9051	31.47	31.45	NO	1.001	1.000	51.3	103	NO
3	1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.24	1.32	NO	1.0334	34.84	34.84	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.24	1.18	NO	0.8923	34.92	34.93	NO	1.000	1.000	49.8	99.7	NO
5	1,2,3,7,8,9-HxCDD	1.86e5	3.73e5	1.24	1.21	NO	0.8669	35.22	35.22	NO	1.000	1.000	56.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.12e5	2.61e5	1.04	1.05	NO	0.9639	38.76	38.77	NO	1.000	1.001	49.5	99.1	NO
7	OCDD	2.16e5	4.78e5	0.89	0.87	NO	0.9136	41.74	41.75	NO	1.000	1.000	99.0	99.0	NO
8	2,3,7,8-TCDF	5.78e4	8.25e5	0.77	0.75	NO	0.7510	25.60	25.59	NO	1.001	1.001	9.32	93.2	NO
9	1,2,3,7,8-PeCDF	2.90e5	6.38e5	1.55	1.53	NO	0.8925	30.17	30.17	NO	1.001	1.001	51.1	102	NO
10	1,2,3,4,7,8-PeCDF	2.87e5	6.10e5	1.55	1.63	NO	0.9348	31.18	31.15	NO	1.001	1.000	50.4	101	NO
11	1,7,8,9-HxCDF	1.73e5	3.88e5	1.24	1.22	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.24	1.22	NO	0.8892	34.08	34.08	NO	1.000	1.000	48.2	96.4	NO
13	2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.24	1.19	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.2	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.35e5	3.32e5	1.24	1.17	NO	0.8707	35.57	35.58	NO	1.000	1.000	46.7	93.4	NO
15	1,2,3,4,6,7,8-HpCDF	1.31e5	3.06e5	1.04	0.98	NO	0.8734	37.38	37.38	NO	1.001	1.001	48.9	97.8	NO
16	1,2,3,4,7,8,9-HpCDF	9.75e4	1.92e5	1.04	1.00	NO	1.0125	39.30	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	2.04e5	5.41e5	0.99	0.99	NO	0.8055	41.93	41.94	NO	1.000	1.000	93.5	93.5	NO
18	13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.77	0.90	NO	1.1563	26.49	26.47	NO	1.026	1.026	99.2	99.3	NO
19	13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	0.63	NO	0.9490	31.67	31.45	NO	1.227	1.219	92.6	92.8	NO
20	13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.24	1.29	NO	0.7790	34.82	34.83	NO	1.014	1.014	87.1	87.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.24	1.29	NO	1.8167	34.93	34.92	NO	1.017	1.017	106	106	NO



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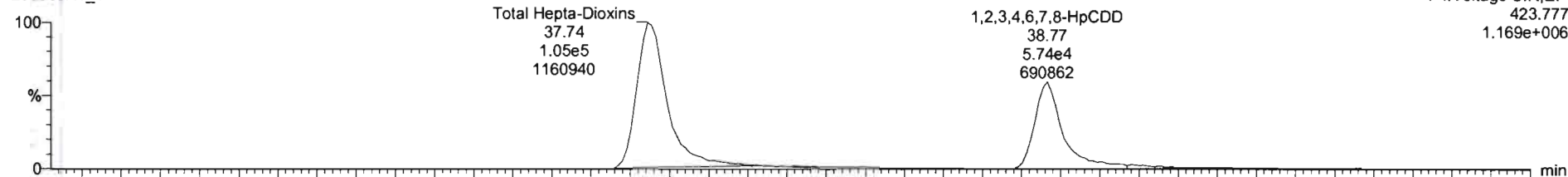
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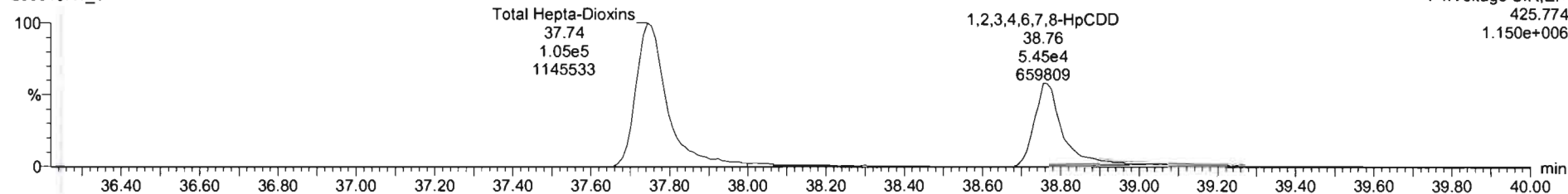
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1,2,3,4,6,7,8-HpCDD

200618R1_1

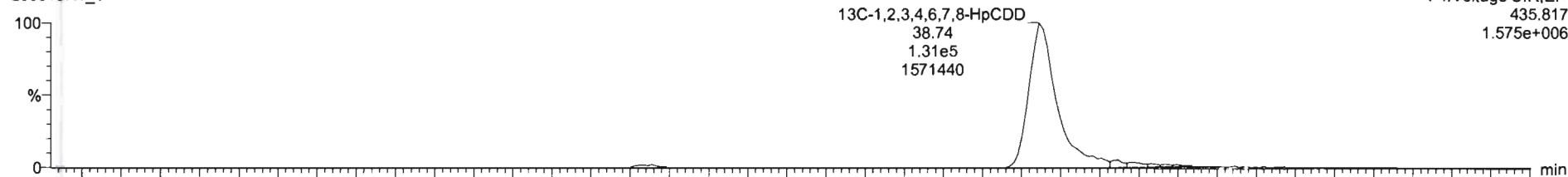


200618R1_1

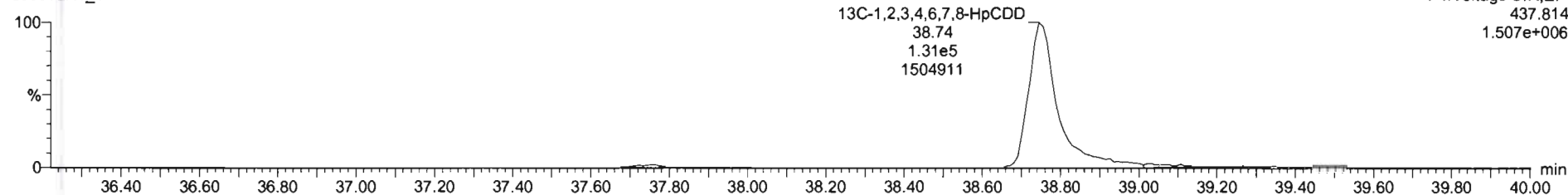


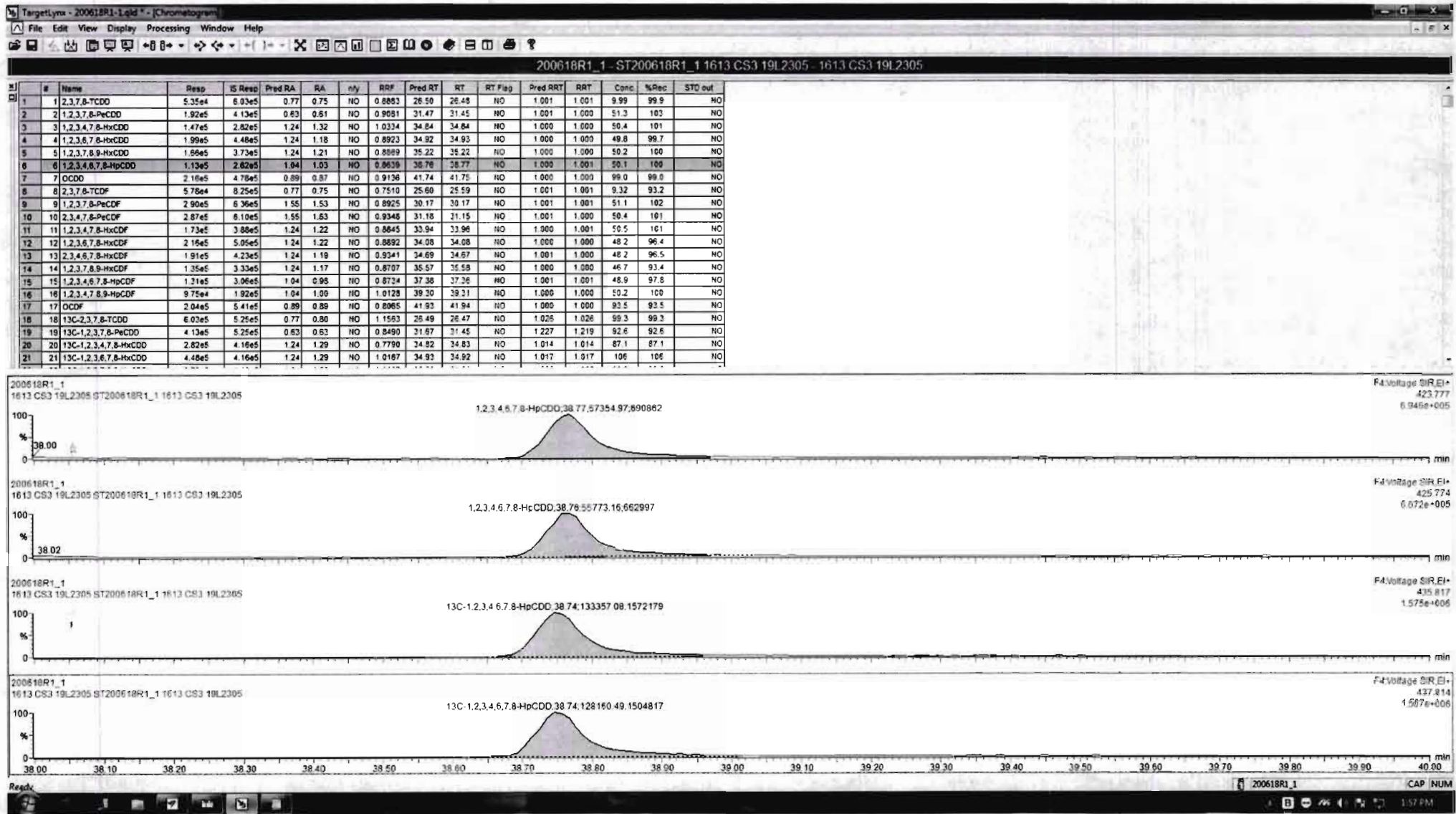
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200618R1_1



200618R1_1





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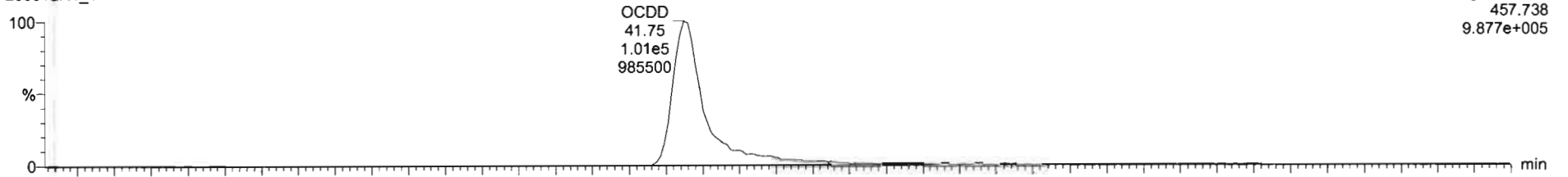
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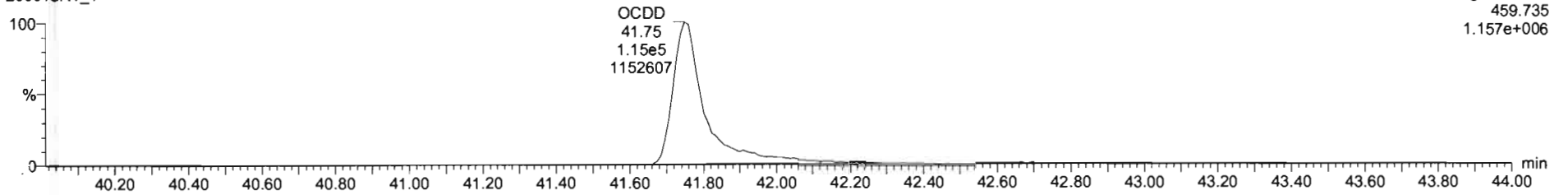
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OCDD

200618R1_1

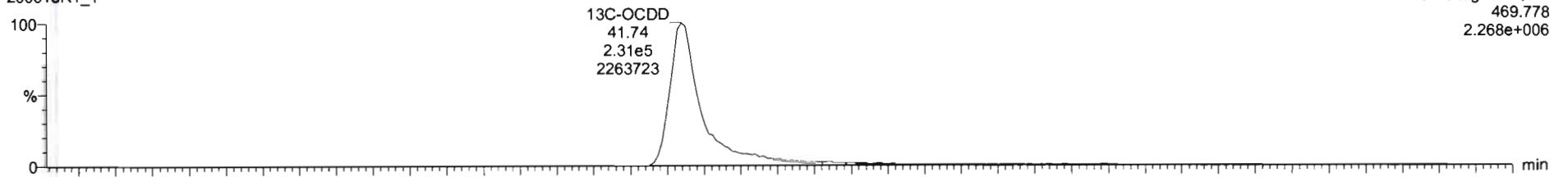


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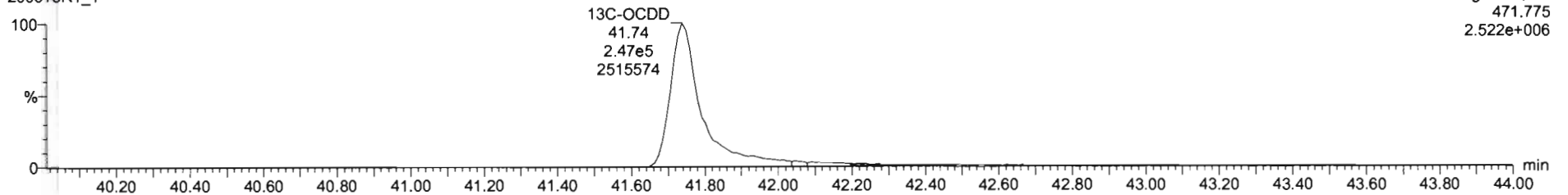


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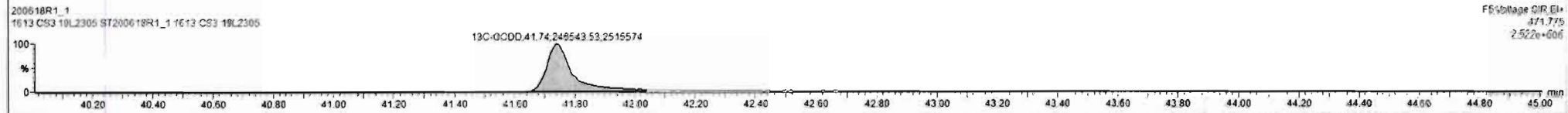
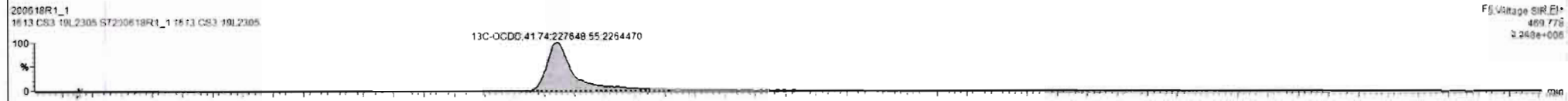
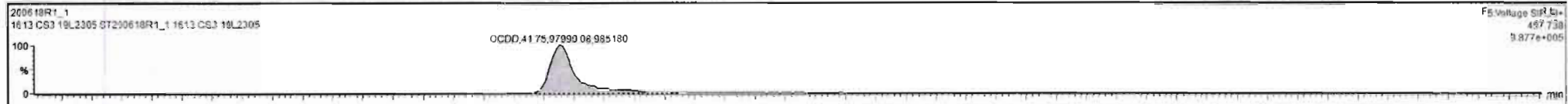
200618R1_1



200618R1_1



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	5.35e4	6.03e5	0.77	0.75	NO	0.8853	25.50	25.48	NO	1.001	1.001	9.99	99.9	NO
2	1,2,3,7,8-PeCDD	1.92e5	4.13e5	0.63	0.61	NO	0.9051	31.47	31.45	NO	1.001	1.000	51.3	103	NO
3	1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.24	1.32	NO	1.9324	34.84	34.84	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.24	1.18	NO	0.8923	34.92	34.83	NO	1.000	1.000	49.8	99.7	NO
5	1,2,3,7,8,9-HxCDD	1.96e5	3.73e5	1.24	1.21	NO	0.8659	35.22	35.22	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.13e5	2.82e5	1.04	1.03	NO	0.8639	36.76	36.77	NO	1.000	1.001	50.1	100	NO
7	OCDD	2.11e5	4.74e5	0.88	0.87	NO	0.9136	41.74	41.75	NO	1.000	1.000	97.2	97.2	NO
8	2,3,7,8-TCDF	5.76e4	8.25e5	0.77	0.75	NO	0.7510	25.60	25.59	NO	1.001	1.001	9.32	93.2	NO
9	1,2,3,7,8-PeCDF	2.90e5	6.36e5	1.55	1.53	NO	0.8925	30.17	30.17	NO	1.001	1.001	51.1	102	NO
10	2,3,4,7,8-PeCDF	2.87e5	6.10e5	1.55	1.63	NO	0.9348	31.18	31.15	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	1.73e5	3.86e5	1.24	1.22	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.24	1.22	NO	0.8892	34.08	34.08	NO	1.000	1.000	48.2	96.4	NO
13	2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.24	1.19	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.2	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.35e5	3.33e5	1.24	1.17	NO	0.8707	35.57	35.58	NO	1.000	1.000	46.7	93.4	NO
15	1,2,3,4,6,7,8-HpCDF	1.31e5	3.06e5	1.04	0.95	NO	0.8734	37.35	37.35	NO	1.001	1.001	48.9	97.8	NO
16	1,2,3,4,7,8,9-HpCDF	9.75e4	1.92e5	1.04	1.00	NO	1.0128	39.30	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	2.04e5	5.41e5	0.89	0.89	NO	0.8065	41.93	41.94	NO	1.000	1.000	92.5	92.5	NO
18	13C-2,3,7,8-TCDD	6.02e5	5.25e5	0.77	0.80	NO	1.1563	26.49	26.47	NO	1.025	1.026	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	0.63	NO	0.8490	31.67	31.45	NO	1.227	1.219	92.6	92.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.24	1.29	NO	0.7790	34.82	34.83	NO	1.014	1.014	87.1	87.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.24	1.29	NO	1.0167	34.93	34.92	NO	1.017	1.017	106	106	NO



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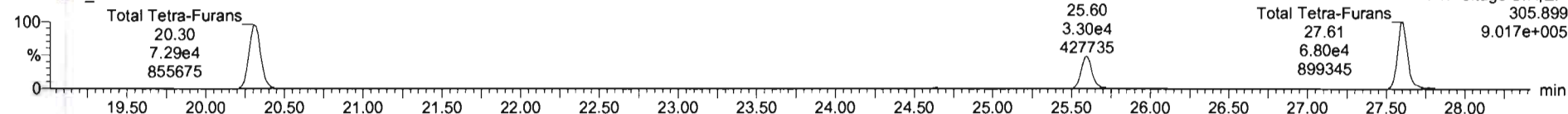
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2,3,7,8-TCDF

200618R1_1

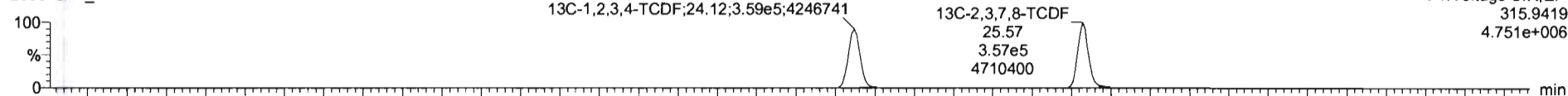


200618R1_1

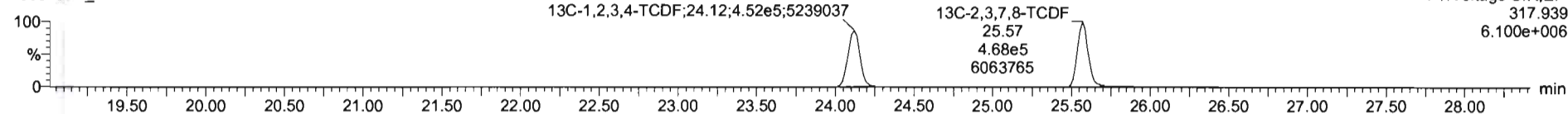


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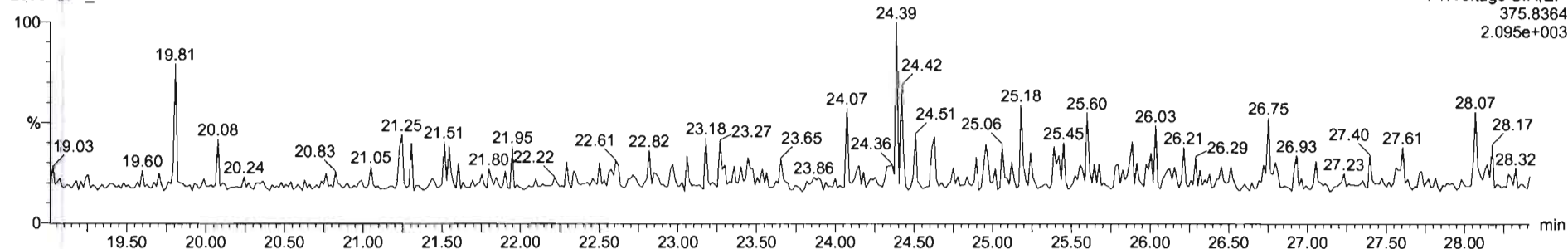


200618R1_1



DPE1

200618R1_1



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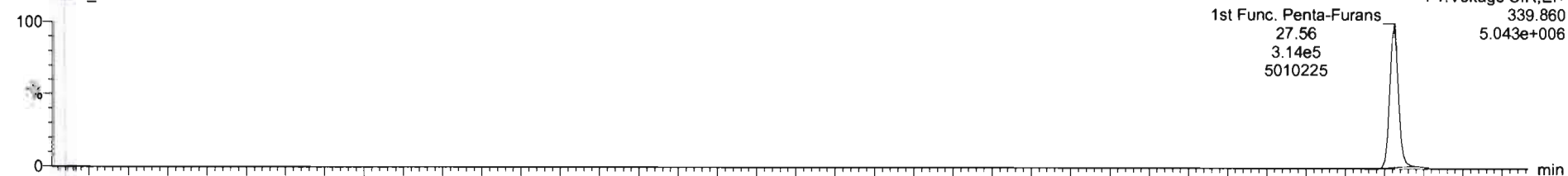
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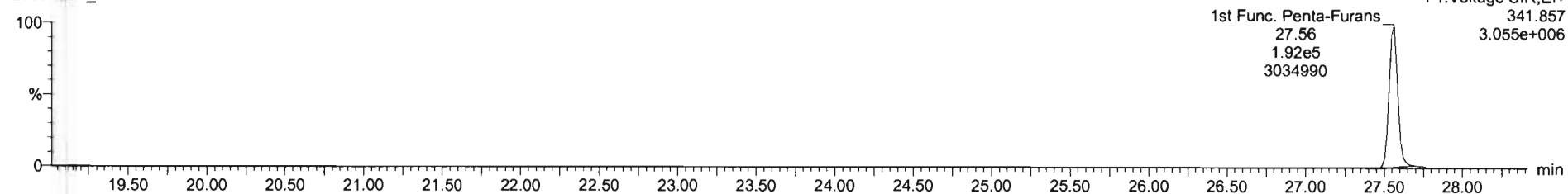
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1st Func. Penta-Furans

200618R1_1

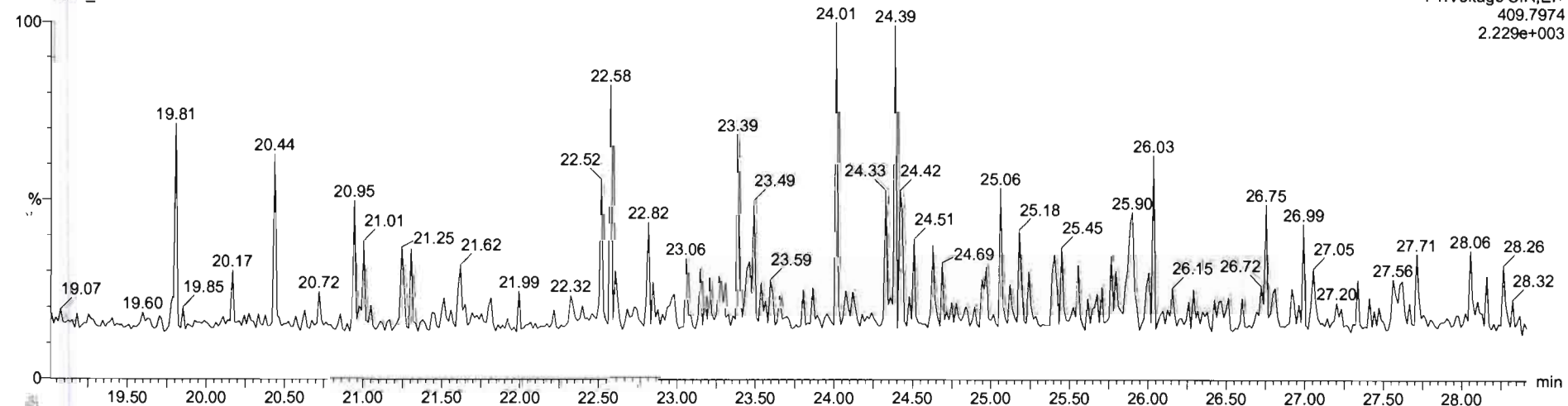


200618R1_1



DPE6

200618R1_1

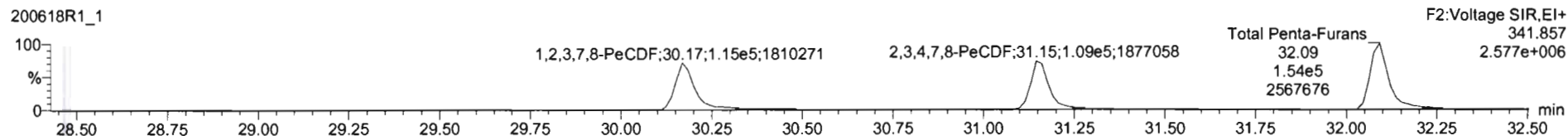
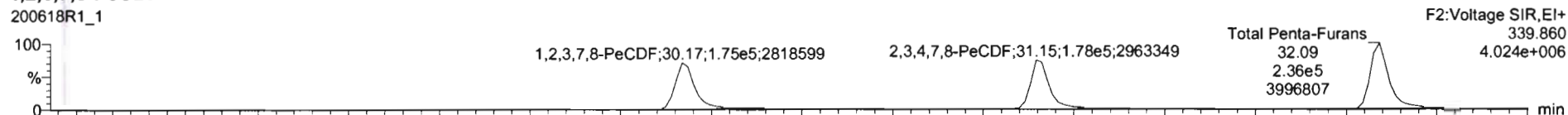


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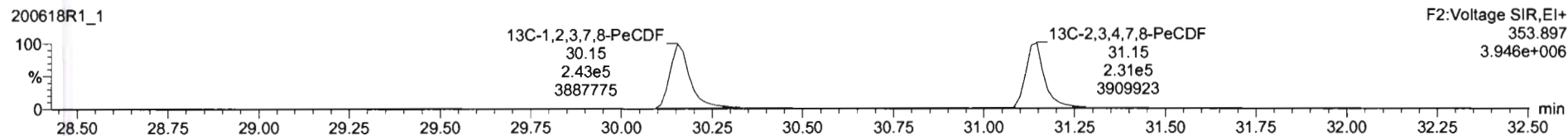
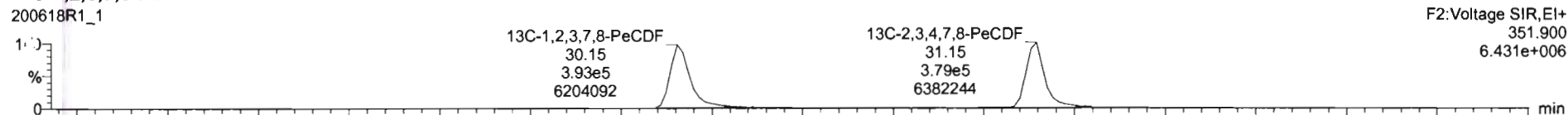
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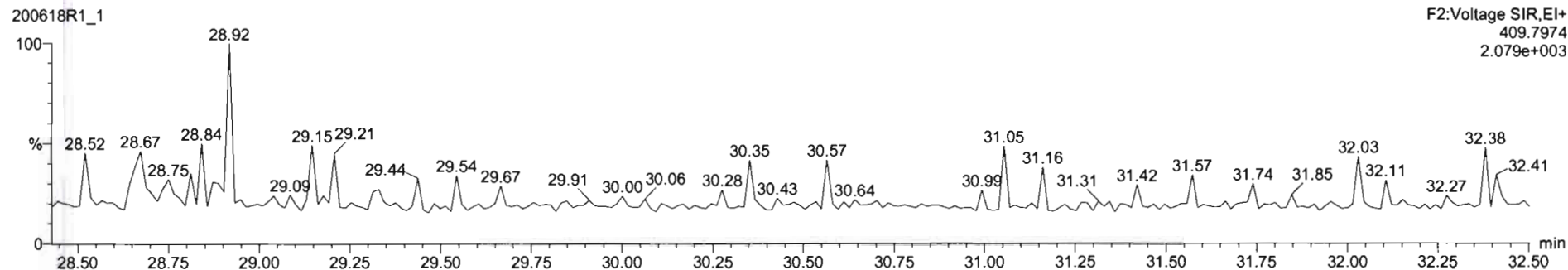
1,2,3,7,8-PeCDF



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



DPE2



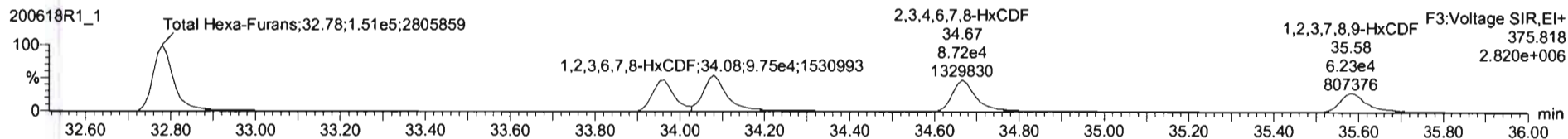
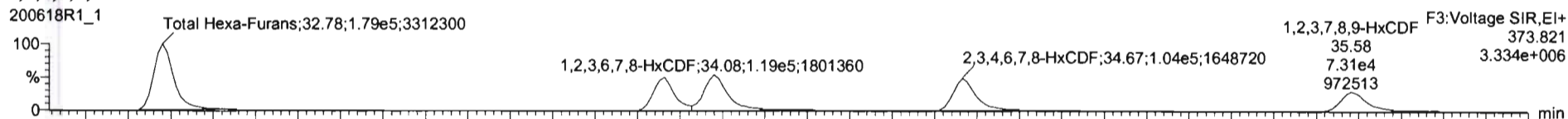
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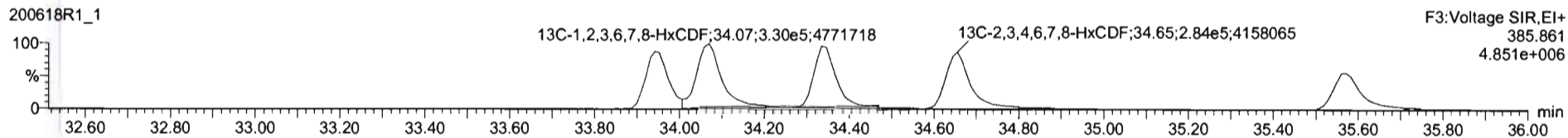
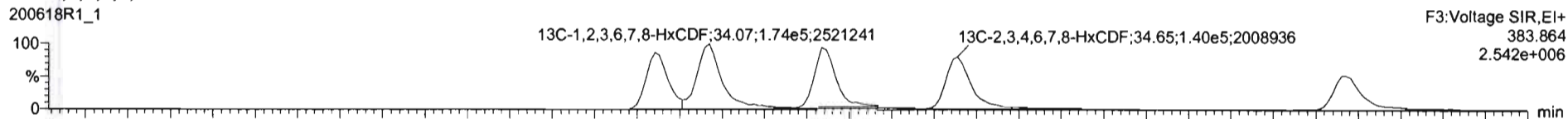
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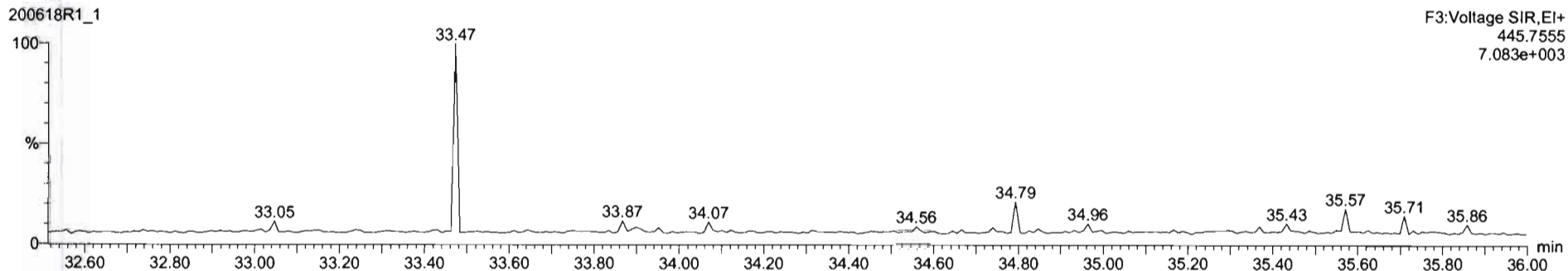
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13C-1,2,3,4,7,8-HxCDF



D-E3

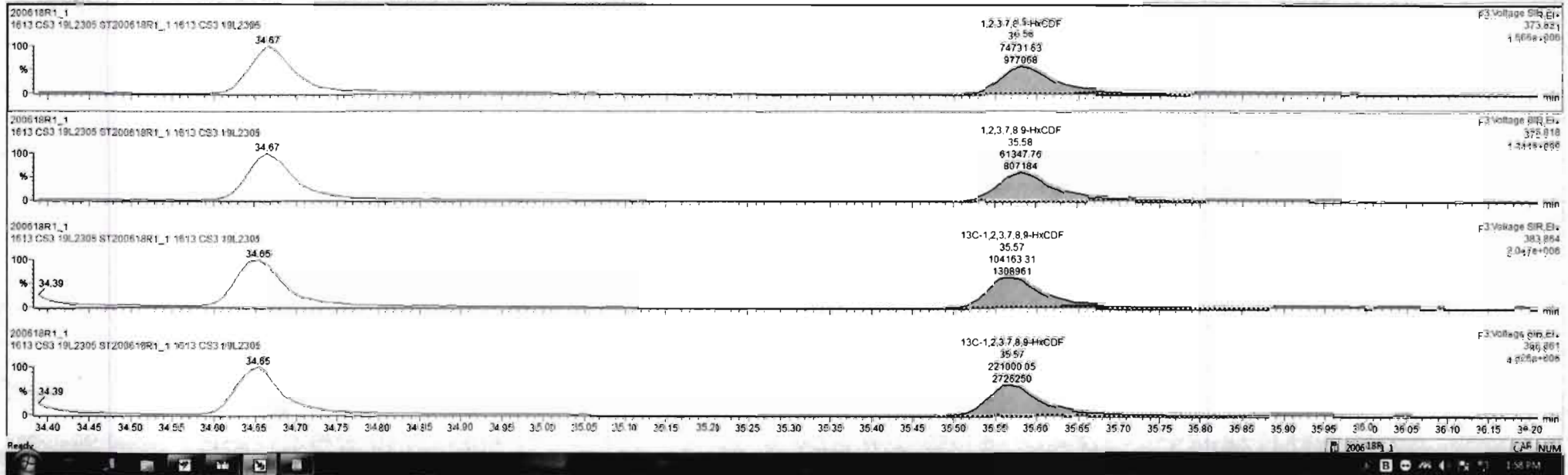


TargetLynx - 200618R1_1.qld - [Chromatogram]

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200618R1_1 - ST200618R1_1 1613 CS3 19L2305 1613 CS3 19L2305

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1	1,2,3,7,8-TCDD	5.35e4	6.03e5	0.77	0.75	NO	0.8883	26.50	26.48	NO	1.001	1.001	9.99	99.9	NO
2	1,2,3,7,8-PeCDD	1.92e5	4.13e5	0.63	0.61	NO	0.9091	31.47	31.45	NO	1.001	1.000	51.3	103	NO
3	1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.24	1.32	NO	1.0334	34.84	34.84	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.24	1.18	NO	0.8923	34.92	34.93	NO	1.000	1.000	49.8	99.7	NO
5	1,2,3,7,8,9-HxCDD	1.85e5	3.73e5	1.24	1.21	NO	0.8889	35.22	35.22	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.13e5	2.82e5	1.04	1.03	NO	0.8639	38.76	38.77	NO	1.000	1.001	50.1	100	NO
7	OCDD	2.11e5	4.74e5	0.89	0.87	NO	0.9139	41.74	41.75	NO	1.000	1.000	97.2	97.2	NO
8	2,3,7,8-TCDF	5.76e4	8.25e5	0.77	0.75	NO	0.7510	25.60	25.59	NO	1.001	1.001	9.32	93.2	NO
9	1,2,3,7,8-PeCDF	2.90e5	6.36e5	1.55	1.53	NO	0.8925	39.17	39.17	NO	1.001	1.001	51.1	102	NO
10	2,3,4,7,8-PeCDF	2.87e5	5.10e5	1.55	1.63	NO	0.9348	31.18	31.15	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	1.73e5	3.88e5	1.24	1.22	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.9	101	NO
12	1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.24	1.22	NO	0.8892	34.08	34.09	NO	1.000	1.000	48.2	96.4	NO
13	2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.24	1.19	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.2	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.36e5	3.25e5	1.24	1.22	NO	0.8707	35.57	35.58	NO	1.000	1.000	48.1	96.1	NO
15	1,2,3,4,6,7,8-HpCDF	1.31e5	3.06e5	1.04	0.95	NO	0.8734	37.38	37.36	NO	1.001	1.001	48.9	97.8	NO
16	1,2,3,4,7,8,9-HpCDF	9.75e4	1.92e5	1.04	1.00	NO	1.0128	39.30	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	2.04e5	5.41e5	0.99	0.99	NO	0.8065	41.93	41.94	NO	1.000	1.000	93.5	93.5	NO
18	13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.77	0.80	NO	1.1583	26.49	26.47	NO	1.026	1.026	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	0.63	NO	0.8490	31.67	31.45	NO	1.227	1.219	92.6	92.8	NO
20	13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.24	1.29	NO	0.7790	34.82	34.83	NO	1.014	1.014	87.1	87.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.24	1.29	NO	1.0167	34.93	34.92	NO	1.017	1.017	106	106	NO

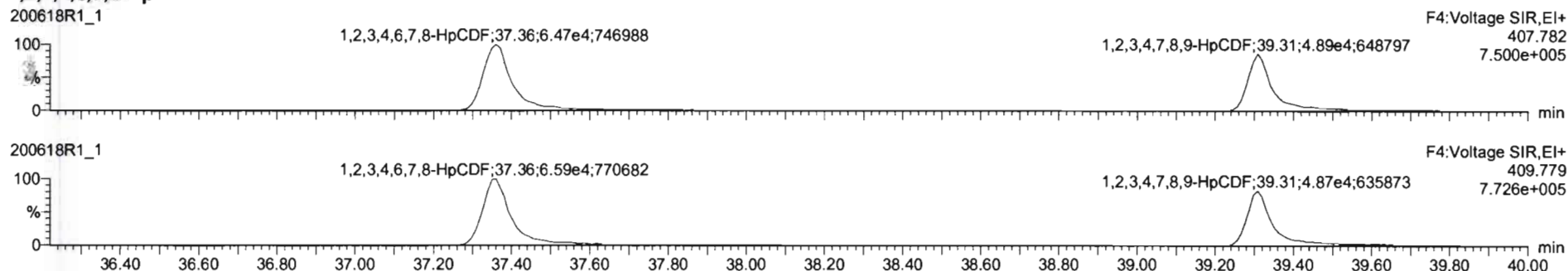


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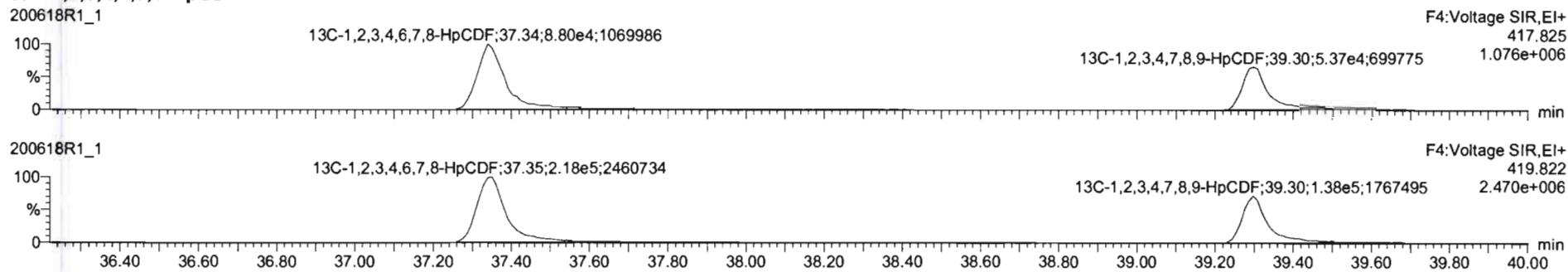
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Printed: Thursday, June 18, 2020 13:54:22 Pacific Daylight Time

Name: 200618R1_1, Date: 18-Jun-2020, Time: 13:05:09, ID: ST200618R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

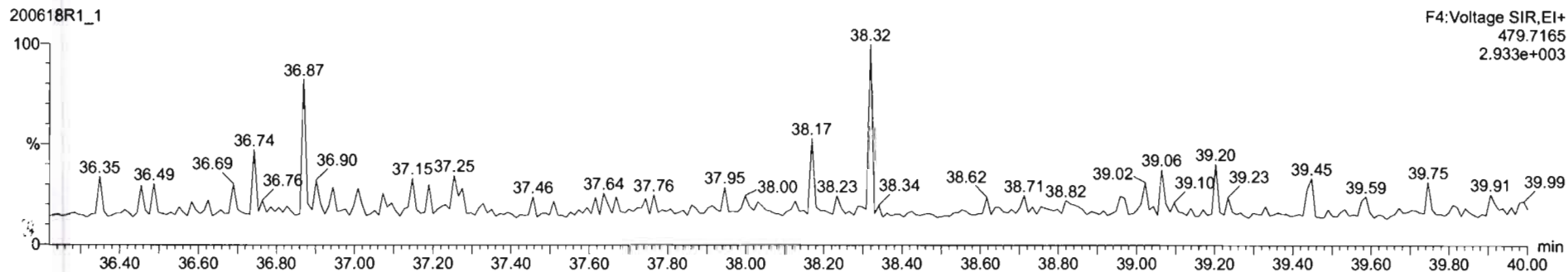
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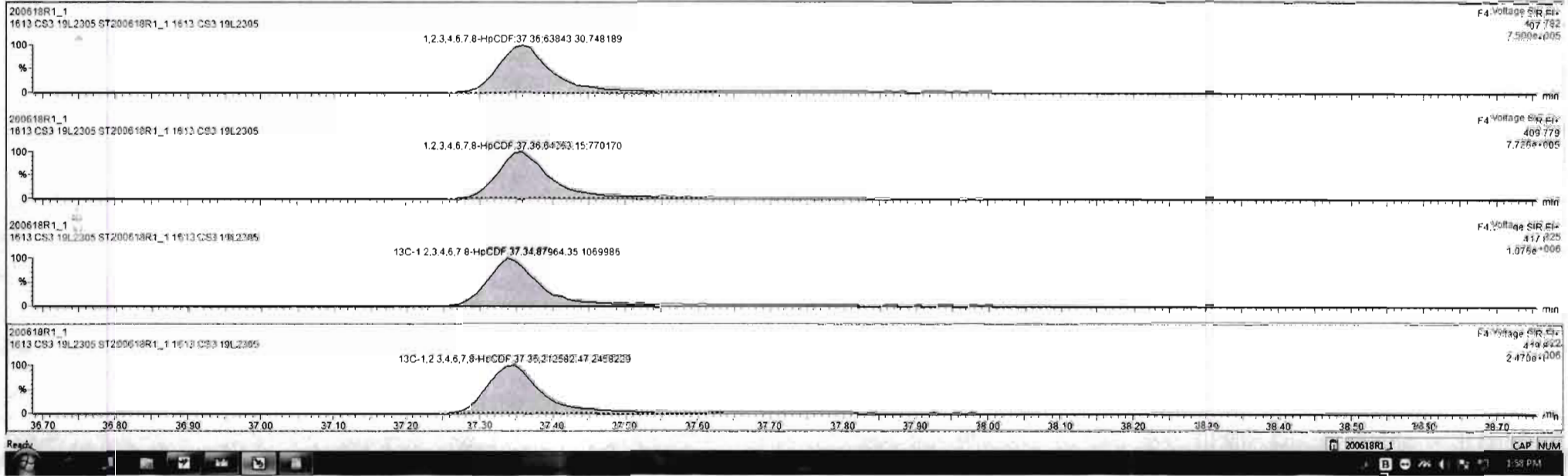
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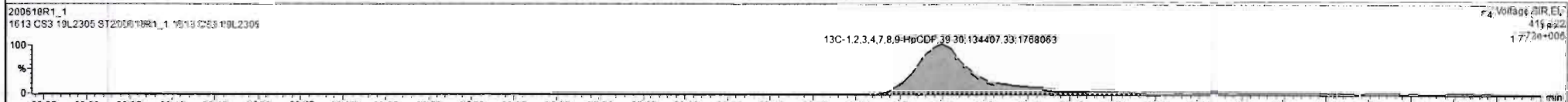
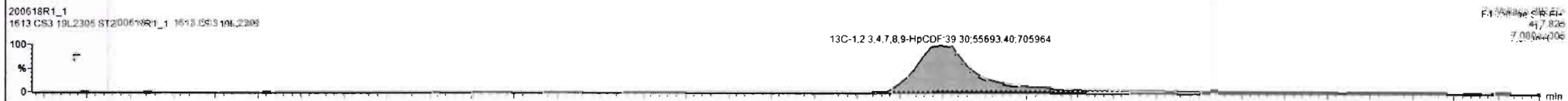
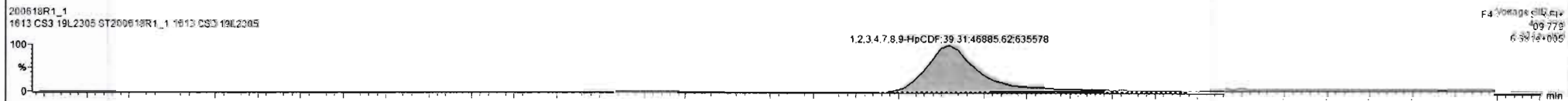
DPE4



#	Name	Resp	IS Resp	Pred RA	RA	N/A	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	5.35e4	6.03e5	0.77	0.75	NO	0.8883	26.50	26.46	NO	1.001	1.001	9.99	99.9	NO
2	1,2,3,7,8-PeCDD	1.92e5	4.13e5	0.63	0.61	NO	0.9081	31.47	31.45	NO	1.001	1.000	51.3	103	NO
3	1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.24	1.32	NO	1.0234	34.84	34.84	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.24	1.18	NO	0.8923	34.92	34.93	NO	1.000	1.000	49.8	99.7	NO
5	1,2,3,7,8,9-HxCDD	1.96e5	3.73e5	1.24	1.21	NO	0.8869	35.22	35.22	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.13e5	2.62e5	1.04	1.03	NO	0.8639	38.76	38.77	NO	1.000	1.001	50.1	100	NO
7	OCDD	2.11e5	4.74e5	0.89	0.87	NO	0.9136	41.74	41.75	NO	1.000	1.000	97.2	97.2	NO
8	2,3,7,8-TCDF	5.78e4	8.25e5	0.77	0.75	NO	0.7510	25.60	25.59	NO	1.001	1.001	9.32	93.2	NO
9	1,2,3,7,8-PeCDF	2.90e5	6.36e5	1.55	1.53	NO	0.8925	20.17	20.17	NO	1.001	1.001	51.1	102	NO
10	2,3,4,7,8-PeCDF	2.87e5	6.10e5	1.55	1.63	NO	0.9348	31.18	31.15	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	1.73e5	3.88e5	1.24	1.22	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.24	1.22	NO	0.8892	34.08	34.08	NO	1.000	1.000	48.2	96.4	NO
13	2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.24	1.19	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.2	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.36e5	3.25e5	1.24	1.22	NO	0.8707	35.57	35.58	NO	1.000	1.000	48.1	96.1	NO
15	1,2,3,4,6,7,8-HpCDF	1.28e5	3.01e5	1.94	0.99	NO	0.8734	37.38	37.38	NO	1.001	1.001	48.8	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	9.75e4	1.92e5	1.04	1.00	NO	1.0123	39.30	39.31	NO	1.000	1.000	50.2	100	NO
17	OCDF	2.04e5	5.41e5	0.89	0.89	NO	0.8055	41.93	41.94	NO	1.000	1.000	93.5	93.5	NO
18	13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.77	0.80	NO	1.1563	26.49	26.47	NO	1.026	1.026	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	0.63	NO	0.8490	31.67	31.45	NO	1.227	1.219	92.6	92.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.24	1.29	NO	0.7790	34.82	34.83	NO	1.014	1.014	87.1	87.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.24	1.29	NO	1.0167	34.93	34.92	NO	1.017	1.017	106	106	NO



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	5.35e4	6.03e5	0.77	0.75	NO	0.8853	26.50	26.48	NO	1.001	1.001	9.99	99.9	NO
2	1,3,7,8-PeCDD	1.92e5	4.13e5	0.63	0.61	NO	0.9081	31.47	31.45	NO	1.001	1.000	51.3	103	NO
3	1,2,3,4,7,8-HxCDD	1.47e5	2.82e5	1.24	1.32	NO	1.0234	34.84	34.84	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	1.99e5	4.48e5	1.24	1.18	NO	0.8923	34.92	34.93	NO	1.000	1.000	48.8	99.7	NO
5	1,2,3,7,8,9-HxCDD	1.86e5	3.73e5	1.24	1.21	NO	0.8869	35.22	35.22	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.13e5	2.62e5	1.04	1.03	NO	0.8639	38.78	38.77	NO	1.000	1.001	50.1	100	NO
7	OCDD	2.11e5	4.74e5	0.89	0.87	NO	0.9126	41.74	41.75	NO	1.000	1.000	97.2	97.2	NO
8	2,3,7,8-TCDF	5.76e4	8.25e5	0.77	0.75	NO	0.7510	25.60	25.59	NO	1.001	1.001	9.32	93.2	NO
9	1,2,3,7,8-PeCDF	2.90e5	6.36e5	1.55	1.53	NO	0.8925	30.17	30.17	NO	1.001	1.001	51.1	102	NO
10	2,3,4,7,8-PeCDF	2.87e5	6.10e5	1.55	1.63	NO	0.9348	31.18	31.15	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	1.73e5	3.86e5	1.24	1.22	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.5	101	NO
12	1,2,3,6,7,8-HxCDF	2.16e5	5.05e5	1.24	1.22	NO	0.8892	34.08	34.08	NO	1.000	1.000	48.2	96.4	NO
13	2,3,4,6,7,8-HxCDF	1.91e5	4.23e5	1.24	1.19	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.2	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.36e5	3.25e5	1.24	1.22	NO	0.8707	35.57	35.58	NO	1.000	1.000	48.1	96.1	NO
15	1,2,3,4,6,7,8-HpCDF	1.28e5	3.01e5	1.04	0.99	NO	0.8734	37.38	37.38	NO	1.001	1.001	48.8	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	9.35e4	1.90e5	1.04	1.00	NO	1.0125	39.30	39.31	NO	1.000	1.000	48.7	97.4	NO
17	OCDF	2.04e5	5.41e5	0.89	0.89	NO	0.8065	41.83	41.84	NO	1.005	1.000	93.5	93.5	NO
18	13C-2,3,7,8-TCDD	6.03e5	5.25e5	0.77	0.80	NO	1.1563	26.49	26.47	NO	1.025	1.026	99.3	99.3	NO
19	13C-1,2,3,7,8-PeCDD	4.13e5	5.25e5	0.63	0.63	NO	0.9490	31.67	31.45	NO	1.227	1.219	92.6	92.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.82e5	4.16e5	1.24	1.29	NO	0.7790	34.82	34.83	NO	1.014	1.014	67.1	67.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	4.16e5	1.24	1.29	NO	1.0167	34.93	34.92	NO	1.017	1.017	106	106	NO

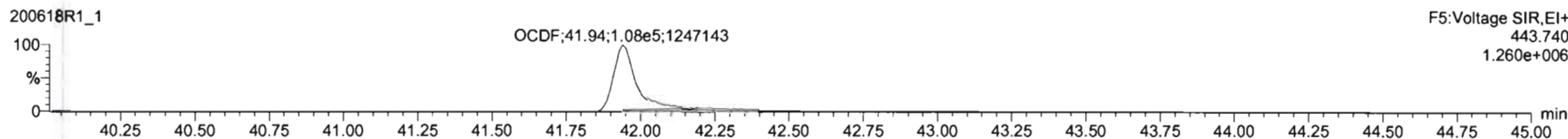
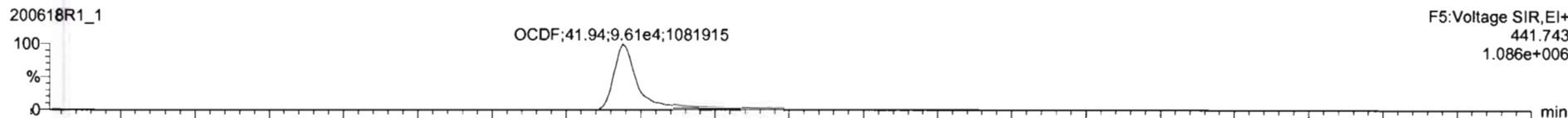


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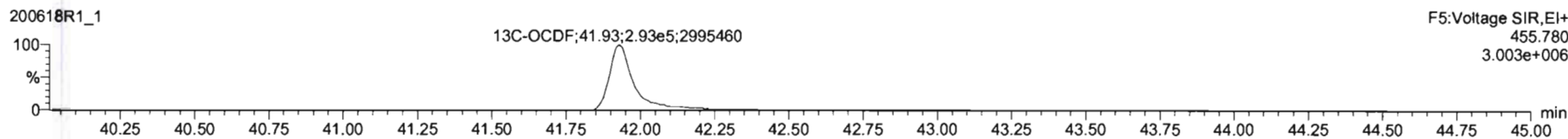
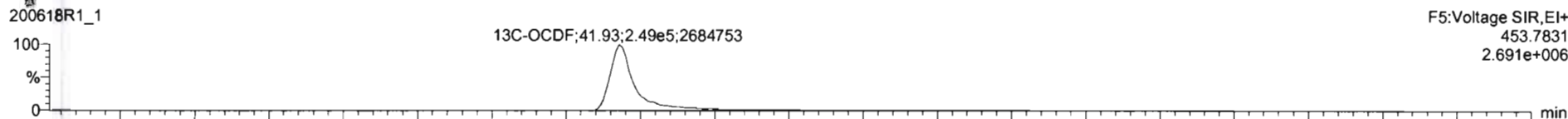
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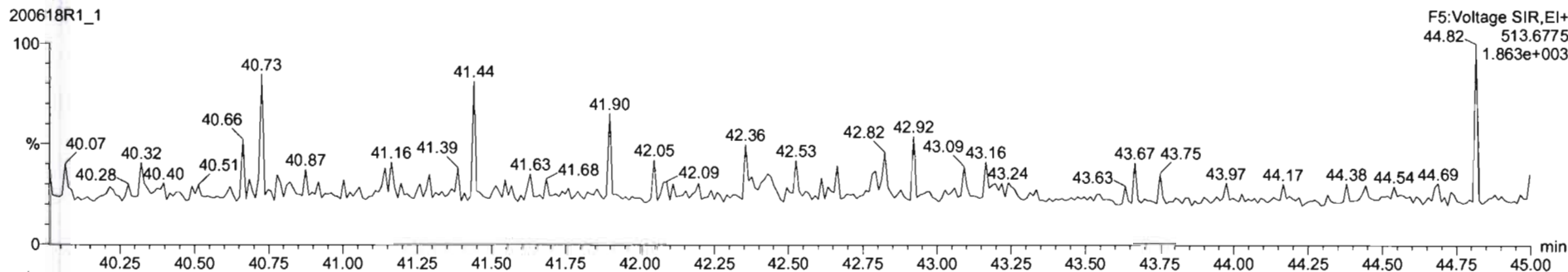
OCDF



¹³C-OCDF



DPE5

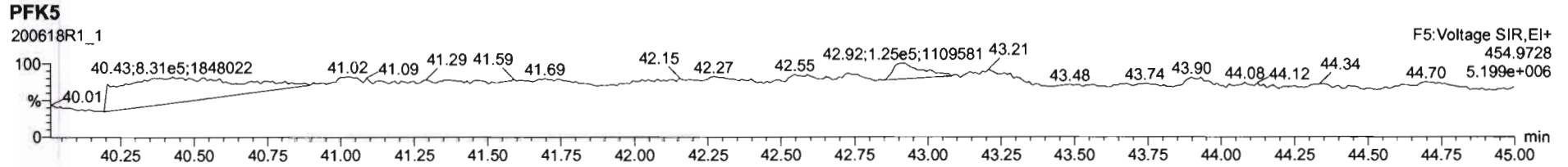
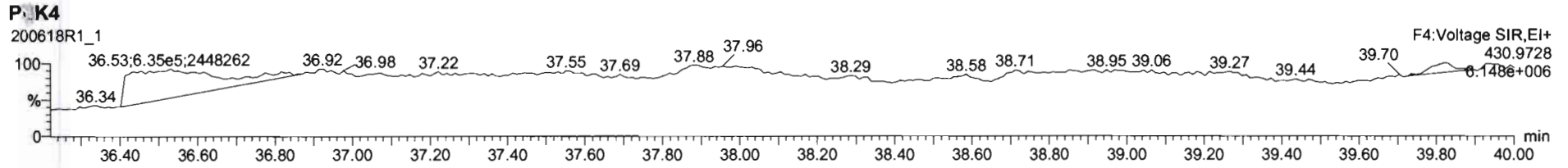
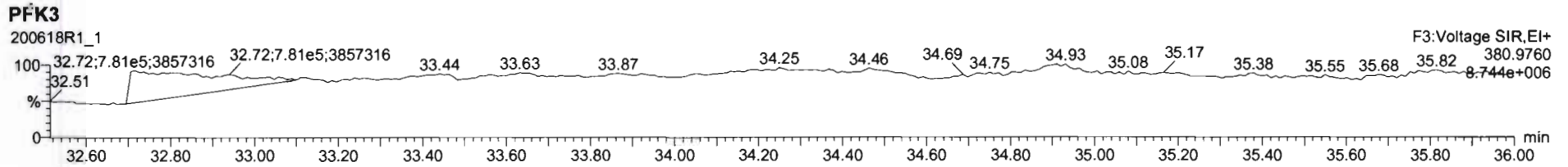
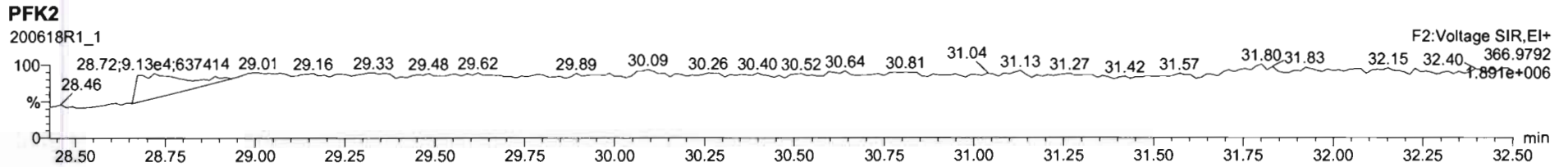
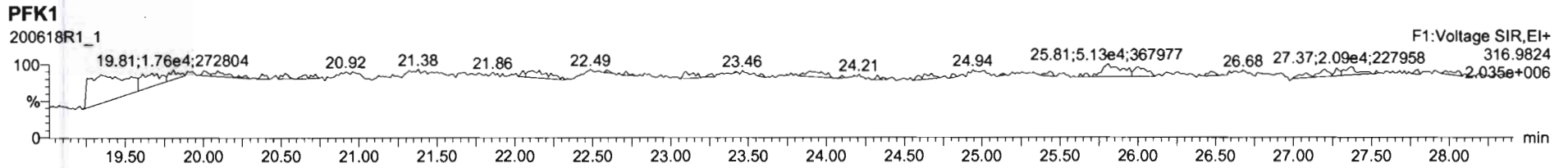


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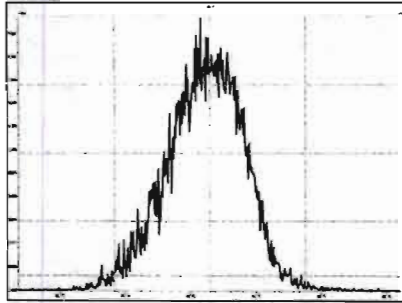
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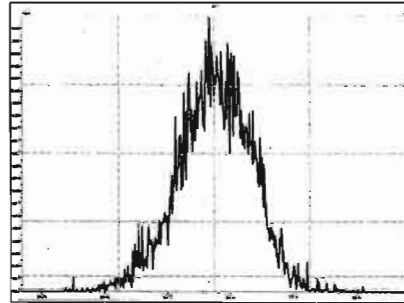


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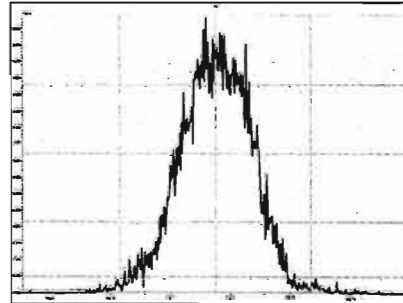
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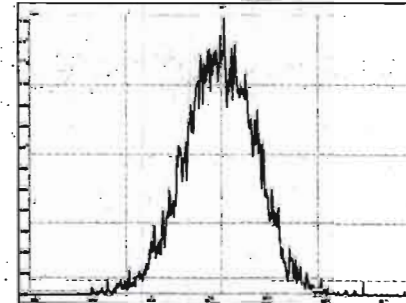
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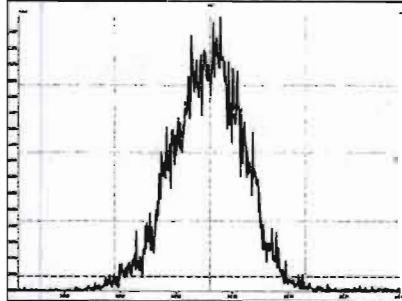
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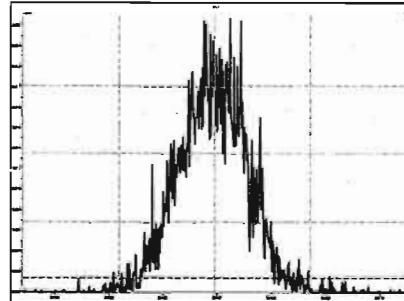
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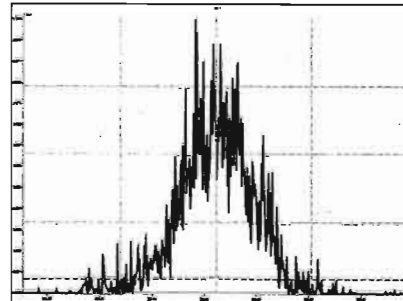
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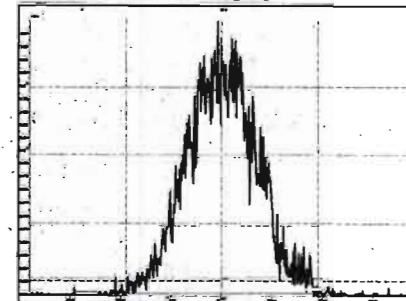
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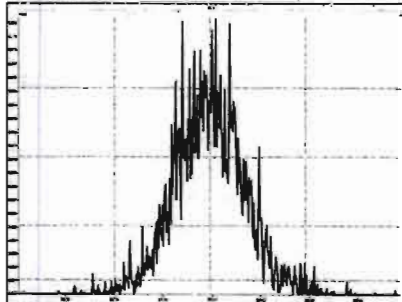
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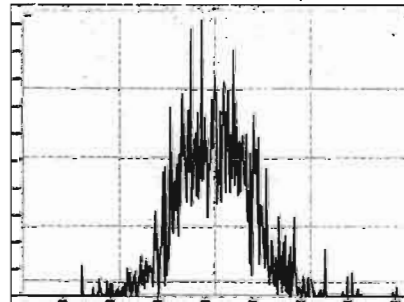
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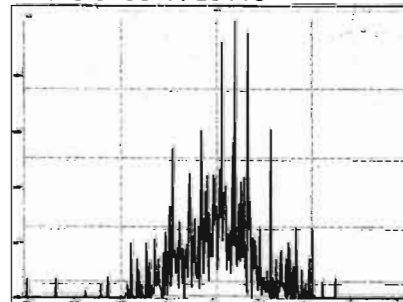
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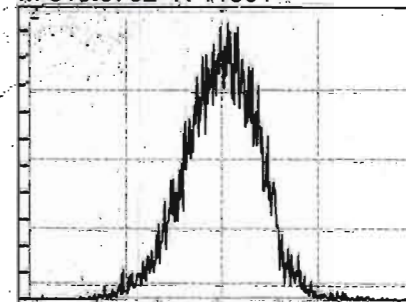
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M 318.9792 R 11601

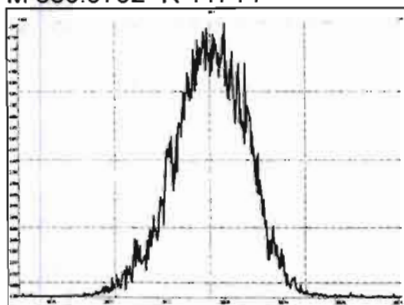


Resolution Check Report

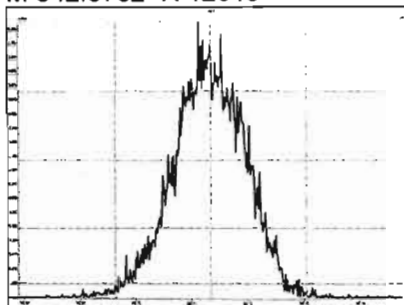
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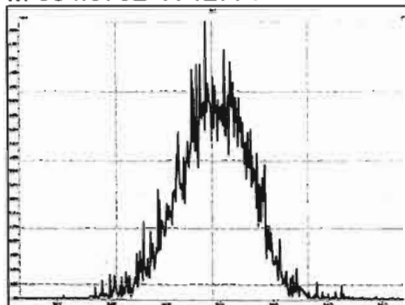
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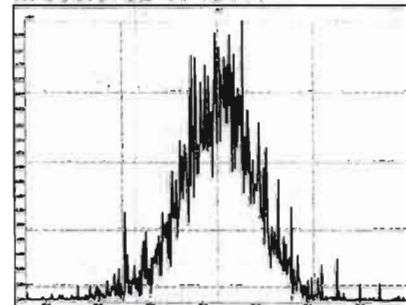
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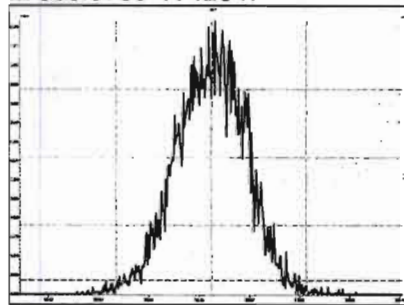
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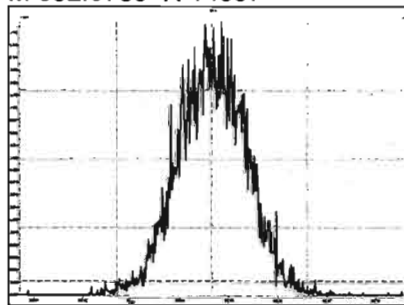
M 366.9792 R 13441



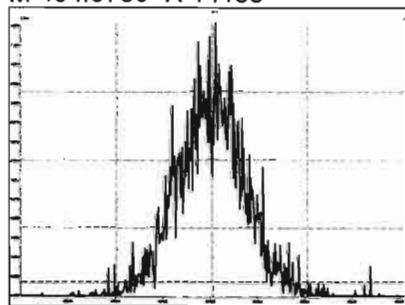
M 380.9760 R 12347



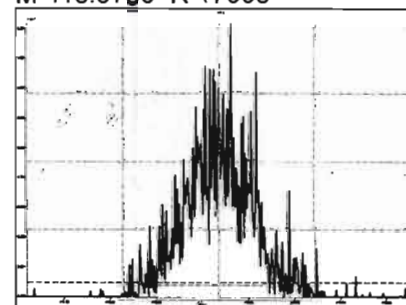
M 392.9760 R 14097



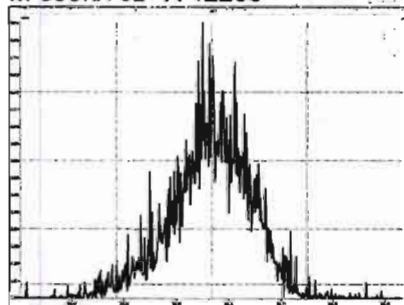
M 404.9760 R 14133



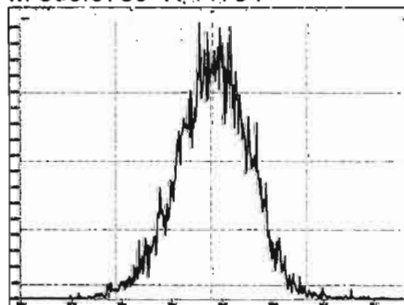
M 416.9760 R 17006



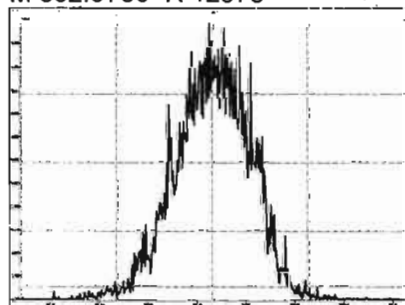
M 366.9792 R 12255



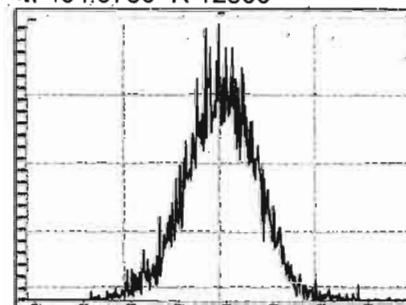
M 380.9760 R 11794



M 392.9760 R 12973

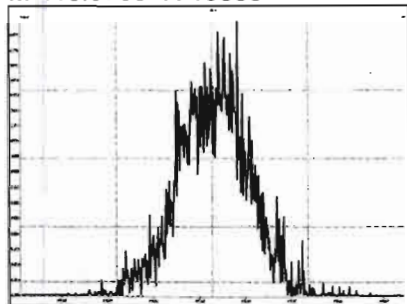


M 404.9760 R 12600

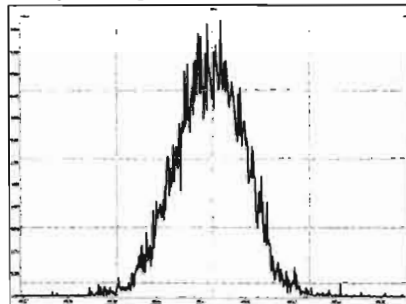


Printed: Friday, June 19, 2020 00:49:09 Pacific Daylight Time

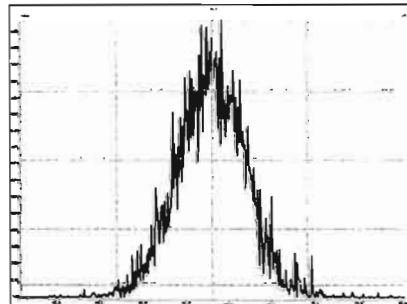
M 416.9760 R 13888



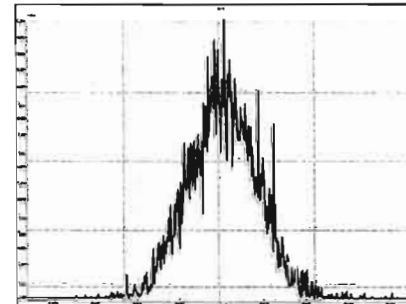
M 430.9728 R 12854



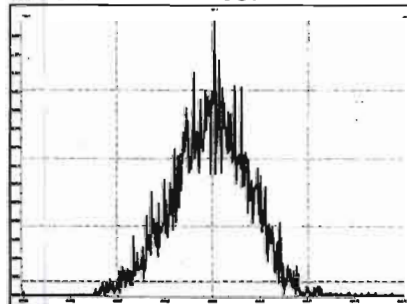
M 442.9728 R 12863



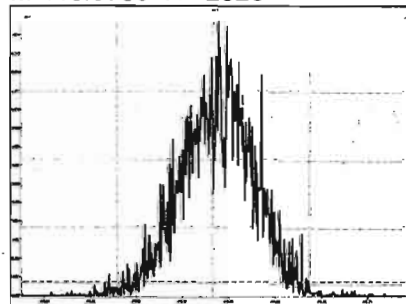
M 454.9728 R 12788



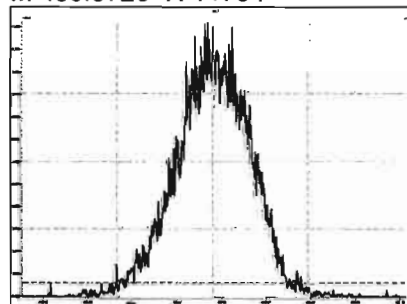
M 404.9760 R 12537



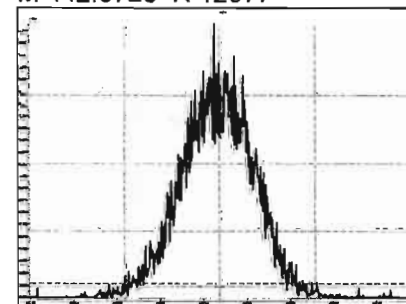
M 416.9760 R 12923



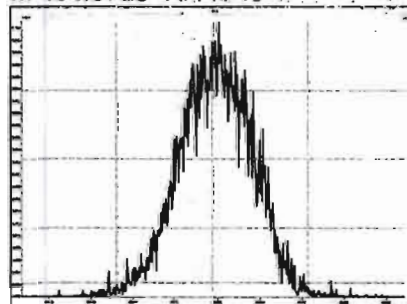
M 430.9728 R 11794



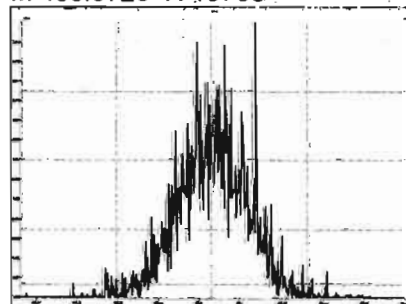
M 442.9728 R 12077



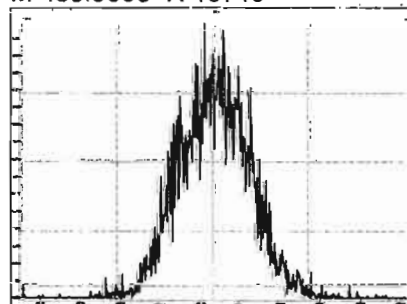
M 454.9728 R:11740



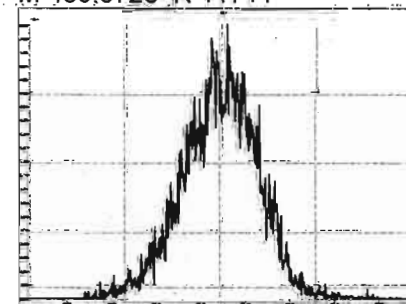
M 466.9728 R:15708



M 480.9696 R 13719

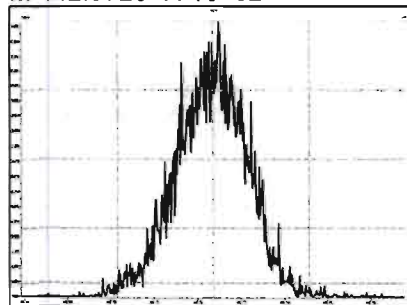


M 430.9728 R 11711

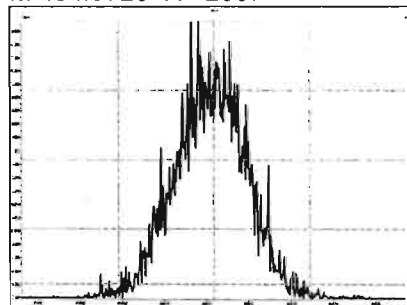


Printed: Friday, June 19, 2020 00:49:09 Pacific Daylight Time

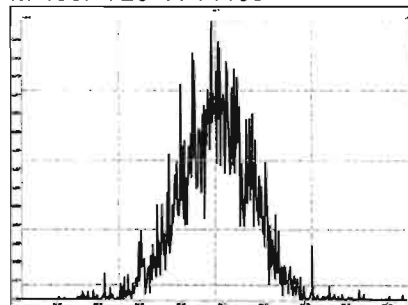
M 442.9728 R 13162



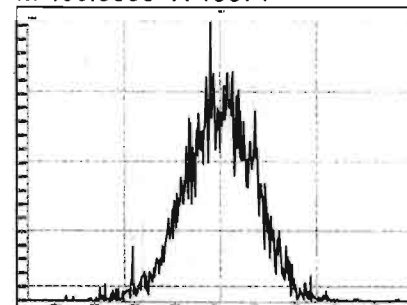
M 454.9728 R 12087



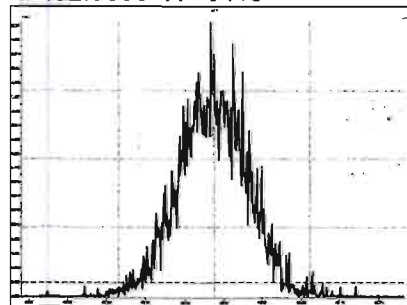
M 466.9728 R 14135



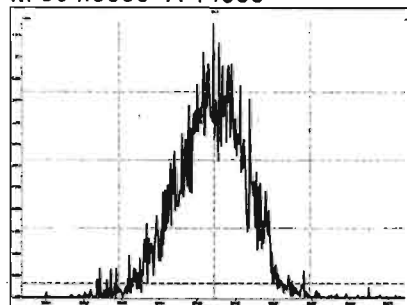
M 480.9696 R 13371



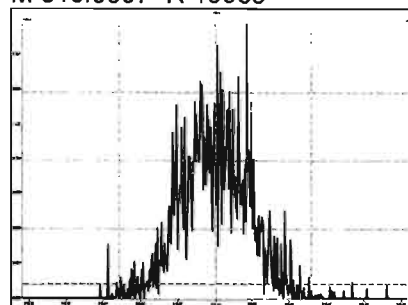
M 492.9696 R 13416



M 504.9696 R 14066



M 516.9697 R 16936



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200609D1-1

Reviewed By: CT 06/10/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
First and last eluters present?	<input type="checkbox" value="NA"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox" value="NA"/>	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours	<input type="checkbox" value="NA"/>	
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	<input type="checkbox" value="DB"/>	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox" value="V"/>			
- Samples within 12 hour clock?	<input type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>			
- Bottle position verified?	<input type="checkbox" value="DB"/>	<input type="checkbox"/>			

Dataset: U:\VG7.PRO\Results\200609D1\200609D1_2.qld

Last Altered: Tuesday, June 09, 2020 14:23:22 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 14:24:46 Pacific Daylight Time

DB 6/9/20 (706/10/2020)

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: 200609D1_2, Date: 09-Jun-2020, Time: 14:01:10, ID: ST200609D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.90e3	0.81	NO	0.982	1.000	17.631	17.65	1.000	1.002	8.4344	84.3 <i>84-120</i>	0.919	8.43
2	2 13C-2,3,7,8-TCDF	2.30e4	0.71	NO	1.08	1.000	17.677	17.61	1.133	1.135	93.671	93.7 <i>71-140</i>	2.78	
3	3 13C-1,2,3,4-TCDF	2.27e4	0.75	NO	1.00	1.000	15.660	15.52	1.000	1.000	100.00	100	3.01	

Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 09:05:30 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 09:05:45 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

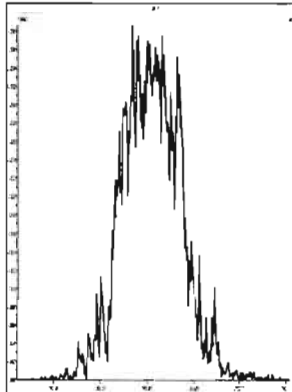
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200609D1_1	CP200609D1-1 DB-225 CPSM	09-Jun-20	13:15:34
2	200609D1_2	ST200609D1-1 1613 CS3 19L2305	09-Jun-20	14:01:10
3	200609D1_3	SOLVENT BLANK	09-Jun-20	14:31:00
4	200609D1_4	2000965-14RE1 PDI-163SC-A-04-05-200425 ...	09-Jun-20	15:02:16
5	200609D1_5	2000945-01RE1 PDI-146SC-A-00-01-200426 ...	09-Jun-20	15:33:55
6	200609D1_6	2000945-02RE1 PDI-146SC-A-01-02-200426 ...	09-Jun-20	16:05:37
7	200609D1_7	B0D0306-DUP1RE1 Duplicate	09-Jun-20	16:37:19
8	200609D1_8	2000998-06RE1 PDI-063SC-B-05-07-200429 ...	09-Jun-20	17:09:00
9	200609D1_9	2000998-04RE1 PDI-063SC-B-00-02-200429 ...	09-Jun-20	17:40:42
10	200609D1_10	2000965-10RE1 PDI-163SC-A-00-01-200425 ...	09-Jun-20	18:12:23
11	200609D1_11	2000965-12RE1 PDI-163SC-A-02-03-200425 ...	09-Jun-20	18:44:04
12	200609D1_12	B0E0020-DUP1RE1 Duplicate	09-Jun-20	19:15:45
13	200609D1_13	2000998-05RE1 PDI-063SC-B-02-05-200429 ...	09-Jun-20	19:47:27
14	200609D1_14	B0E0100-DUP2RE1 Duplicate	09-Jun-20	20:19:08
15	200609D1_15	2000965-09RE1 PDI-1163SC-A-01-02-200425...	09-Jun-20	20:50:49
16	200609D1_16	2000965-11RE1 PDI-163SC-A-01-02-200425 ...	09-Jun-20	21:22:33
17	200609D1_17	2000995-03RE1 PDI-068SC-B-00-02-200430 ...	09-Jun-20	21:54:12
18	200609D1_18	2000995-04RE1 PDI-068SC-B-02-05-200430 ...	09-Jun-20	22:25:54
19	200609D1_19	2000995-05RE1 PDI-068SC-B-05-07-200430 ...	09-Jun-20	22:57:36
20	200609D1_20	2000995-08RE1 PDI-072SC-B-00-02-200430 ...	09-Jun-20	23:29:18

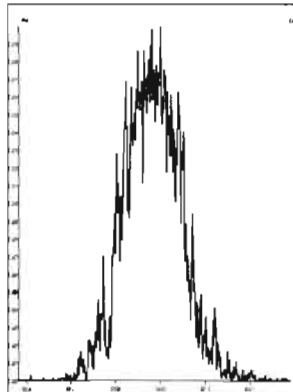
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, June 09, 2020 13:14:48 Pacific Daylight Time

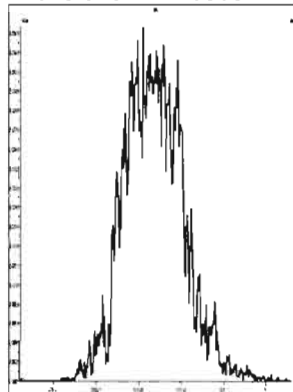
M 292.9824 R 10244



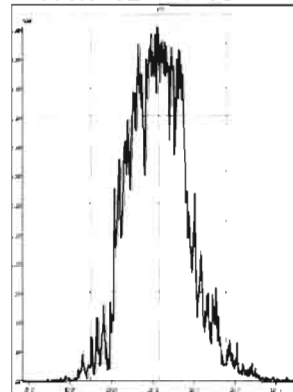
M 304.9824 R 11058



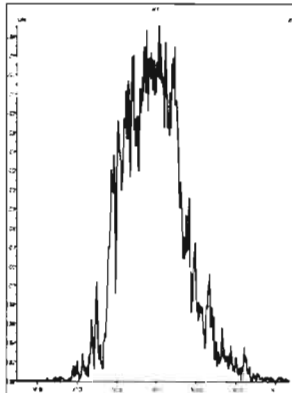
M 318.9792 R 10505



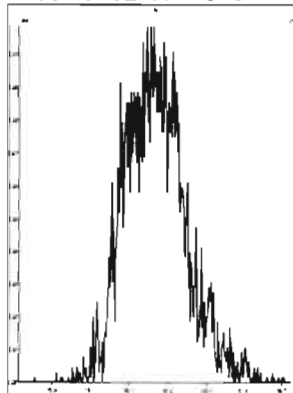
M 330.9792 R 11961



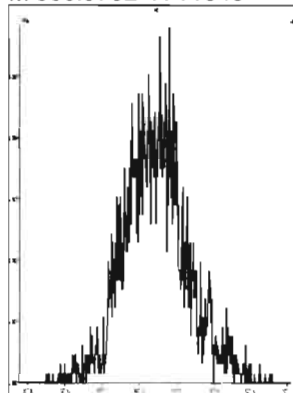
M 342.9792 R 11959



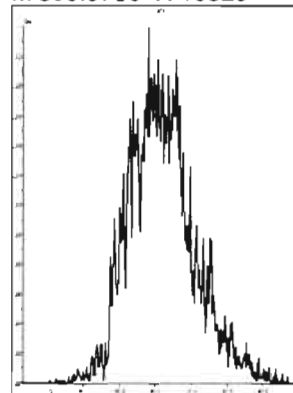
M 354.9792 R 12020

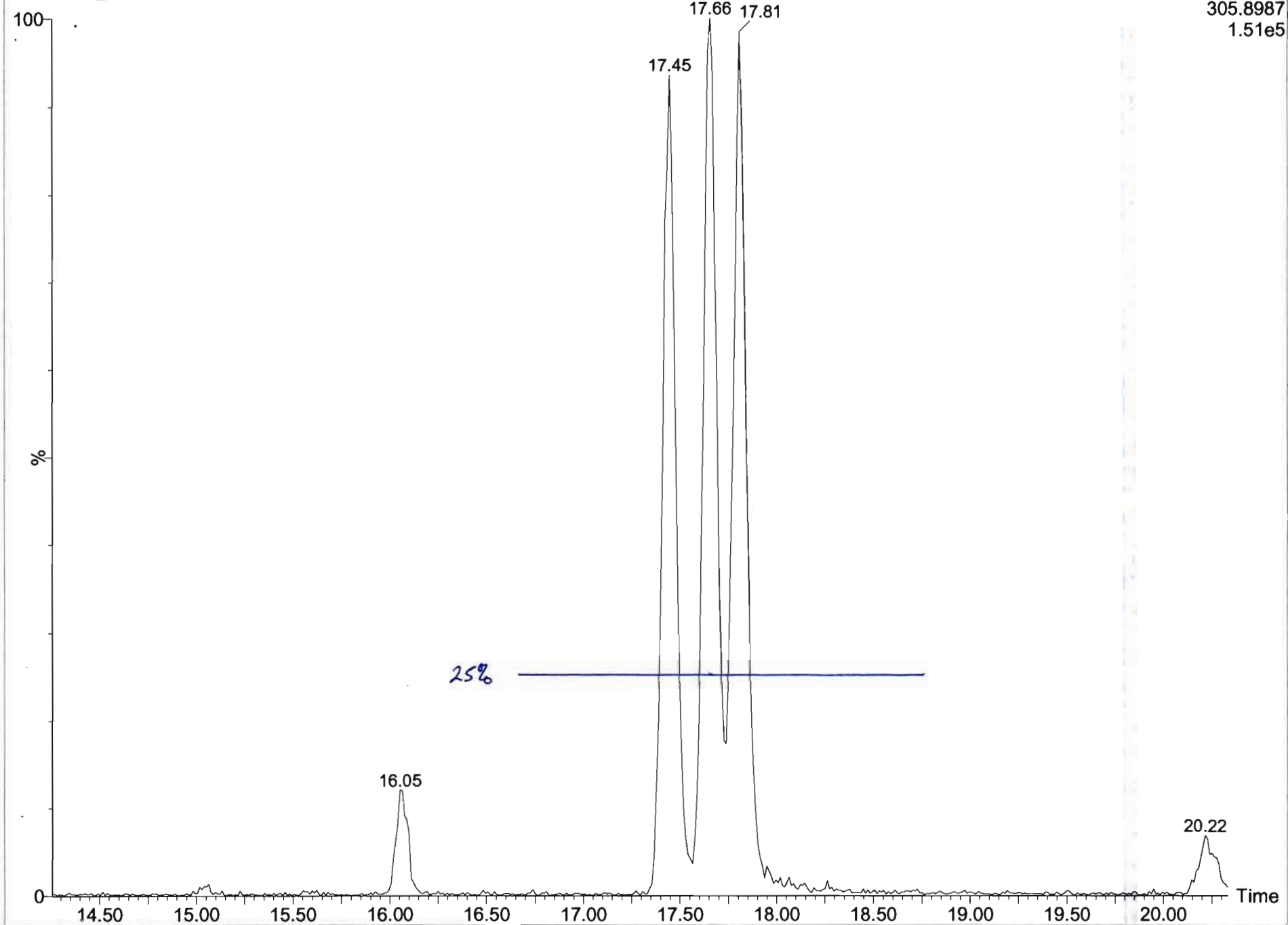


M 366.9792 R 11848



M 380.9760 R 10329





Dataset: U:\VG7.PRO\Results\200609D1\200609D1_1.qld

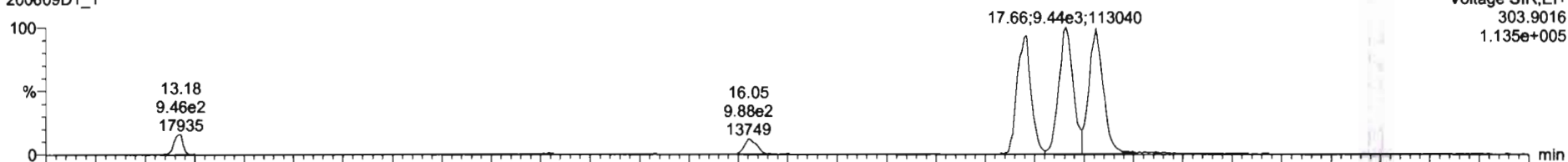
Last Altered: Tuesday, June 09, 2020 14:25:15 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 14:26:26 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

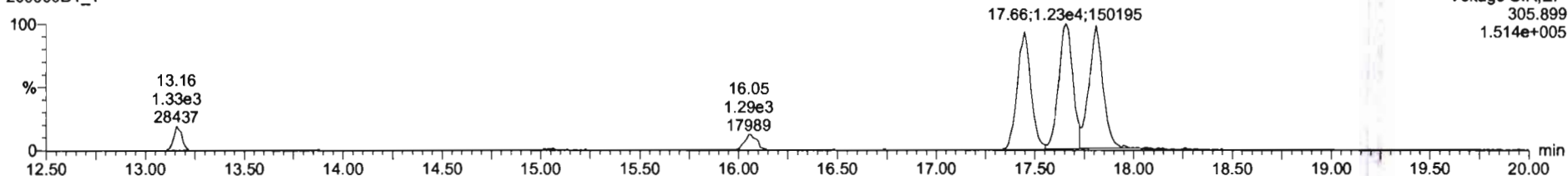
Name: 200609D1_1, Date: 09-Jun-2020, Time: 13:15:34, ID: CP200609D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF

200609D1_1

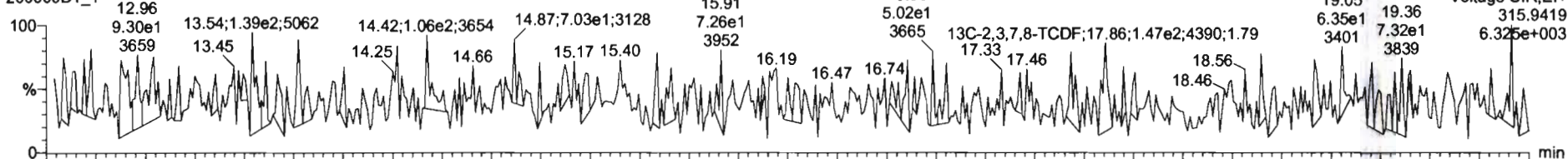


200609D1_1

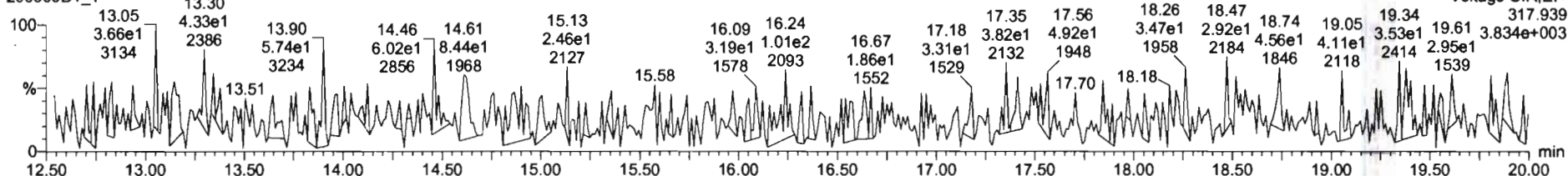


13C-2,3,7,8-TCDF

200609D1_1



200609D1_1

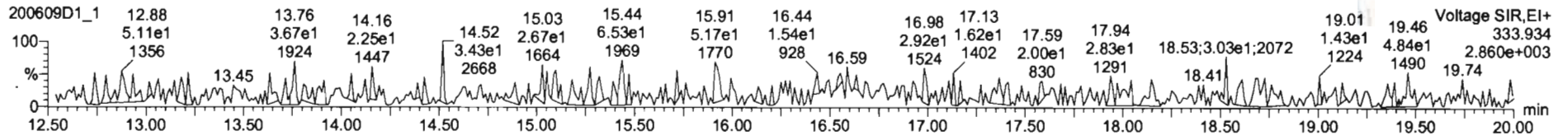
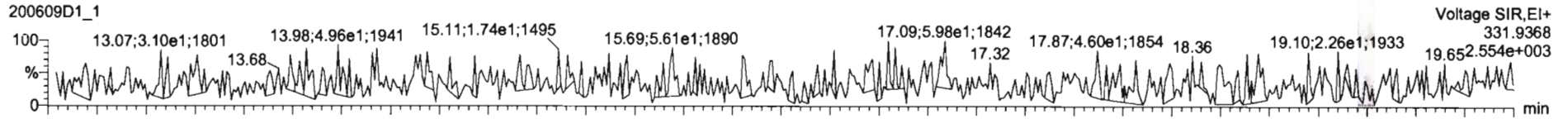


Dataset: U:\VG7.PRO\Results\200609D1\200609D1_1.qld

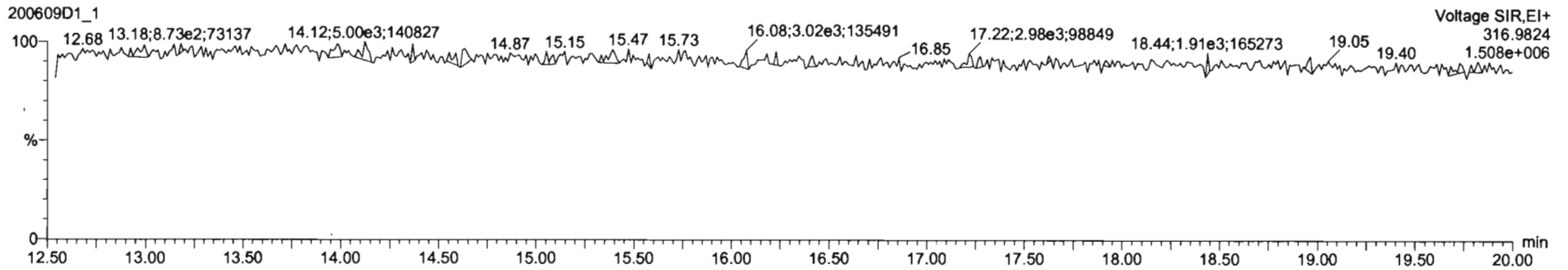
Last Altered: Tuesday, June 09, 2020 14:25:15 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 14:26:26 Pacific Daylight Time

Name: 200609D1_1, Date: 09-Jun-2020, Time: 13:15:34, ID: CP200609D1-1 DB-225 CPSM, Description: DB-225 CPSM

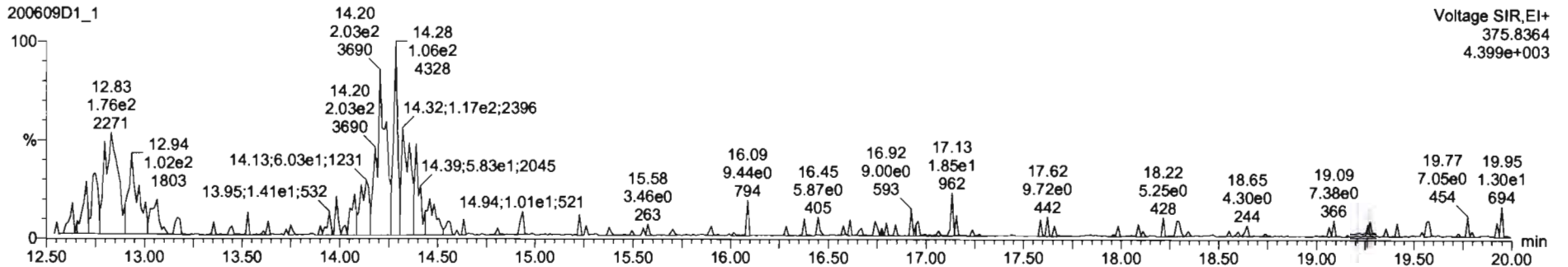
13C-1,2,3,4-TCDD



PFK1



DPE1



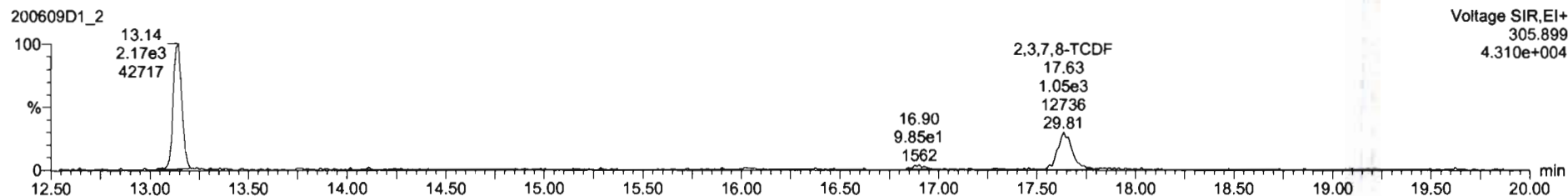
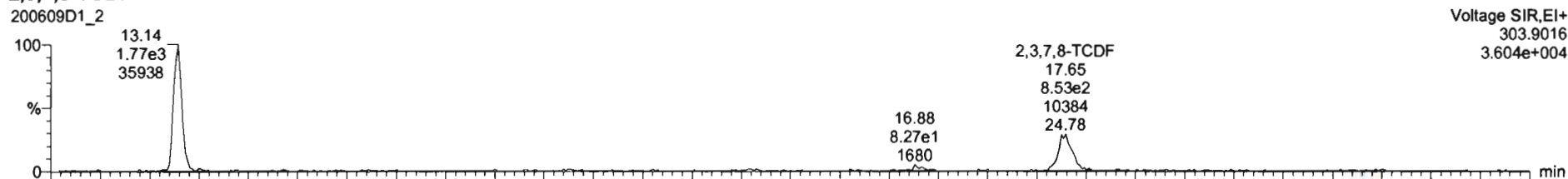
Dataset: U:\VG7.PRO\Results\200609D1\200609D1_2.qld

Last Altered: Tuesday, June 09, 2020 14:23:22 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 14:25:05 Pacific Daylight Time

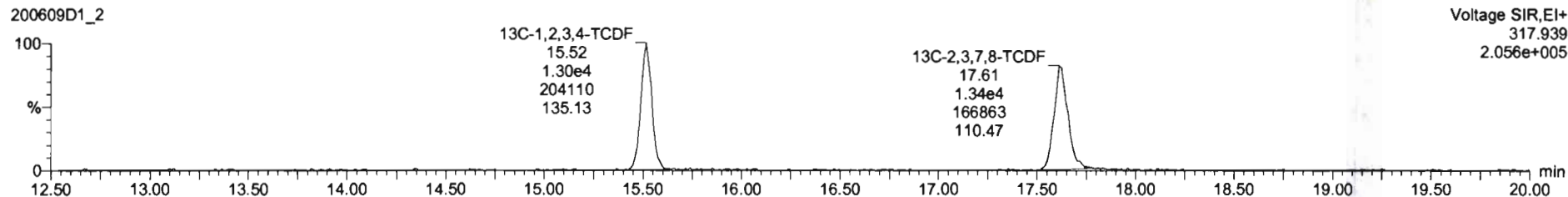
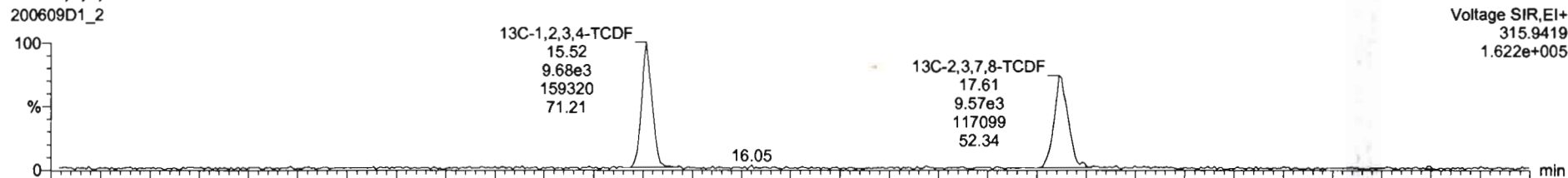
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200609D1_2, Date: 09-Jun-2020, Time: 14:01:10, ID: ST200609D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF



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



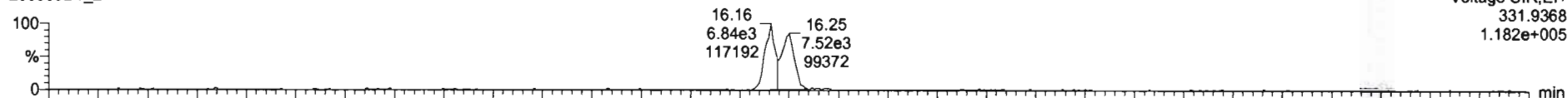
Dataset: U:\VG7.PRO\Results\200609D1\200609D1_2.qld

Last Altered: Tuesday, June 09, 2020 14:23:22 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 14:25:05 Pacific Daylight Time

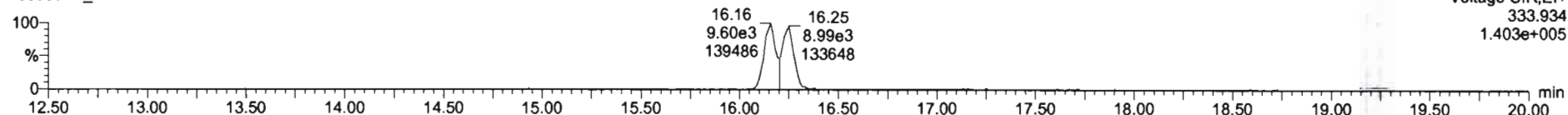
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13C-1,2,3,4-TCDD

200609D1_2

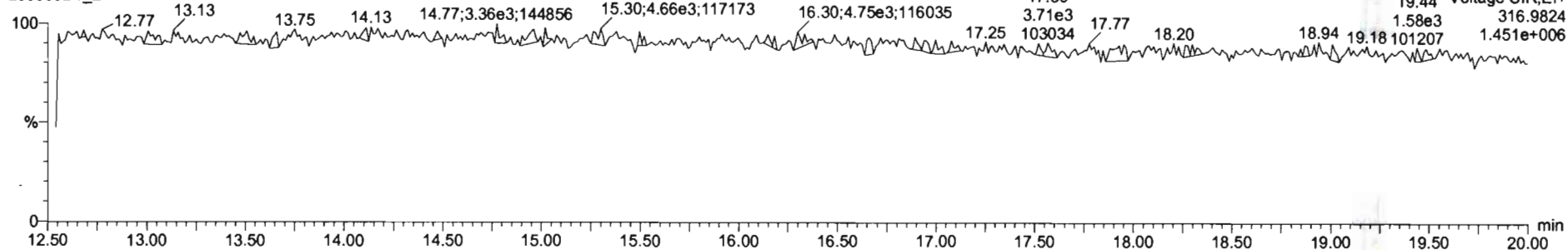


200609D1_2



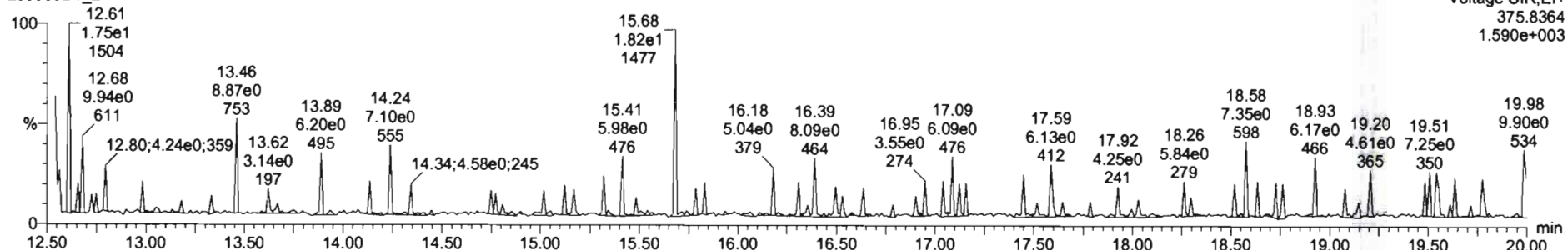
PFK1

200609D1_2



DPE1

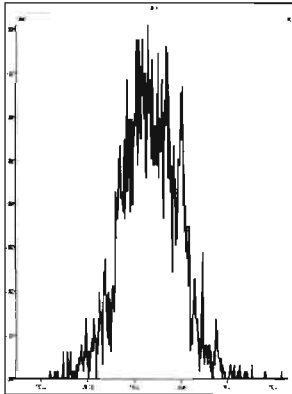
200609D1_2



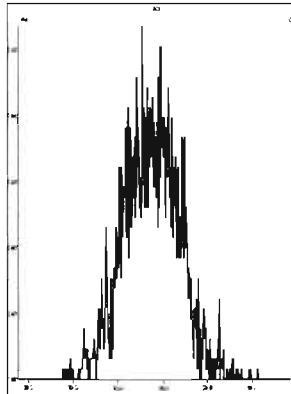
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, June 10, 2020 00:03:15 Pacific Daylight Time

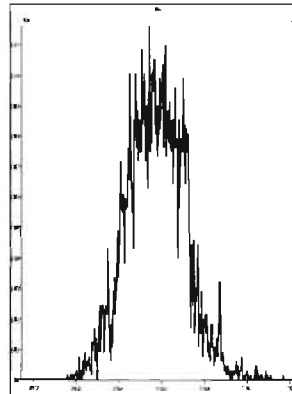
M 292.9824 R 13223



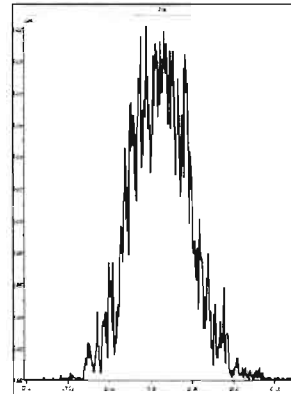
M 304.9824 R 13228



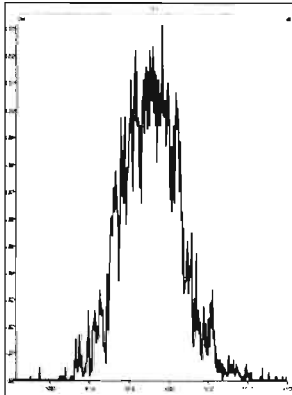
M 318.9792 R 10822



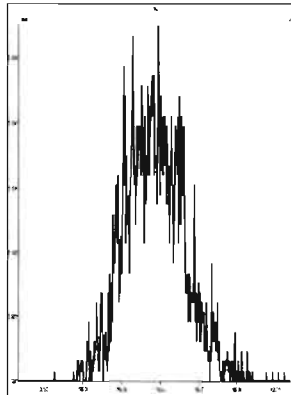
M 330.9792 R 12252



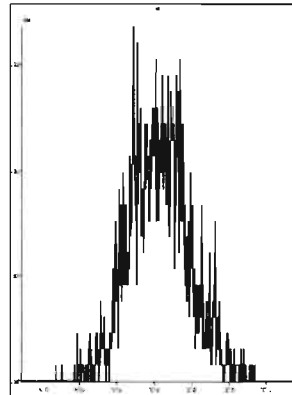
M 342.9792 R 10777



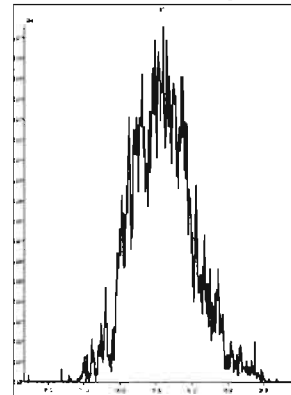
M 354.9792 R 12820



M 366.9792 R 10458



M 380.9760 R 12132



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

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GRB 05/29/2020

CI 05/29/2020

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Compound name: 2,3,7,8-TCDD

Response Factor: 0.88831
RRF SD: 0.0677802, Relative SD: 7.63025
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	200528R2_1	0.250	0.68	NO	26.54	1.000	2.70e3	1.43e6	0.213	-14.8	0.757	bb
2	200528R2_2	0.500	0.78	NO	26.57	1.001	5.69e3	1.29e6	0.497	-0.6	0.883	bb
3	200528R2_3	2.00	0.80	NO	26.57	1.001	2.40e4	1.31e6	2.06	3.1	0.916	bb
4	200528R2_4	40.0	0.78	NO	26.56	1.001	5.50e5	1.50e6	41.2	3.0	0.915	bb
5	200528R2_5	300	0.78	NO	26.59	1.001	4.32e6	1.52e6	321	6.9	0.949	bb
6	200528R2_6	10.0	0.81	NO	26.59	1.001	1.06e5	1.16e6	10.2	2.4	0.910	dd

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.908065
RRF SD: 0.0455724, Relative SD: 5.01862
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	200528R2_1	1.25	0.66	NO	31.50	1.000	1.03e4	1.00e6	1.12	-10.0	0.817	bb
2	200528R2_2	2.50	0.64	NO	31.51	1.000	2.12e4	9.36e5	2.50	-0.1	0.908	bb
3	200528R2_3	10.0	0.63	NO	31.51	1.000	8.60e4	9.29e5	10.2	1.9	0.926	bb
4	200528R2_4	200	0.63	NO	31.51	1.000	2.06e6	1.11e6	205	2.4	0.930	bb
5	200528R2_5	1500	0.63	NO	31.51	1.000	1.69e7	1.21e6	1550	3.0	0.935	bb
6	200528R2_6	50.0	0.62	NO	31.53	1.001	3.95e5	8.48e5	51.3	2.7	0.932	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

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Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.03343

RRF SD: 0.0545572, Relative SD: 5.27925

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	200528R2_1	1.25	1.27	NO	34.86	1.000	8.03e3	6.95e5	1.12	-10.6	0.924	MM
2	200528R2_2	2.50	1.27	NO	34.88	1.000	1.69e4	6.46e5	2.53	1.2	1.05	bd
3	200528R2_3	10.0	1.24	NO	34.88	1.000	6.94e4	6.61e5	10.2	1.6	1.05	bd
4	200528R2_4	200	1.23	NO	34.88	1.001	1.67e6	7.89e5	204	2.1	1.06	MM
5	200528R2_5	1500	1.23	NO	34.88	1.000	1.47e7	9.34e5	1520	1.5	1.05	bd
6	200528R2_6	50.0	1.23	NO	34.89	1.000	3.25e5	6.04e5	52.1	4.1	1.08	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.892293

RRF SD: 0.0561127, Relative SD: 6.28859

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	200528R2_1	1.25	1.23	NO	34.97	1.001	9.27e3	9.27e5	1.12	-10.3	0.800	db
2	200528R2_2	2.50	1.25	NO	34.99	1.001	1.90e4	8.61e5	2.47	-1.1	0.883	db
3	200528R2_3	10.0	1.24	NO	34.99	1.000	8.01e4	8.39e5	10.7	7.0	0.954	db
4	200528R2_4	200	1.22	NO	34.99	1.001	1.92e6	1.03e6	209	4.3	0.931	MM
5	200528R2_5	1500	1.23	NO	34.99	1.000	1.61e7	1.17e6	1550	3.5	0.923	db
6	200528R2_6	50.0	1.24	NO	35.00	1.001	3.51e5	8.15e5	48.3	-3.4	0.862	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.886936

RRF SD: 0.0582559, Relative SD: 6.56822

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	200528R2_1	1.25	1.20	NO	35.25	1.000	8.14e3	8.33e5	1.10	-11.9	0.782	bb
2	200528R2_2	2.50	1.21	NO	35.27	1.001	1.62e4	7.48e5	2.44	-2.3	0.866	bb

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Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.26	NO	35.26	1.000	7.01e4	7.53e5	10.5	4.9	0.931	bb
4	200528R2_4	200	1.20	NO	35.26	1.000	1.70e6	9.12e5	210	4.9	0.931	bb
5	200528R2_5	1500	1.22	NO	35.27	1.000	1.47e7	1.06e6	1570	4.5	0.927	bb
6	200528R2_6	50.0	1.24	NO	35.27	1.000	3.12e5	7.05e5	49.9	-0.2	0.886	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.863903

RRF SD: 0.0694586, Relative SD: 8.04009

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	200528R2_1	1.25	0.99	NO	38.78	1.000	6.10e3	6.48e5	1.09	-12.8	0.753	MM
2	200528R2_2	2.50	1.05	NO	38.81	1.001	1.21e4	6.01e5	2.33	-6.7	0.806	bb
3	200528R2_3	10.0	1.03	NO	38.80	1.000	4.99e4	5.57e5	10.4	3.7	0.896	bd
4	200528R2_4	200	1.02	NO	38.80	1.000	1.25e6	6.86e5	211	5.5	0.911	bb
5	200528R2_5	1500	1.01	NO	38.81	1.000	1.15e7	8.18e5	1620	8.0	0.933	bb
6	200528R2_6	50.0	1.03	NO	38.81	1.000	2.29e5	5.18e5	51.2	2.4	0.884	MM

Compound name: OCDD

Response Factor: 0.913637

RRF SD: 0.0452527, Relative SD: 4.95303

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	200528R2_1	2.50	0.85	NO	41.76	1.000	1.23e4	1.18e6	2.27	-9.1	0.831	bd
2	200528R2_2	5.00	0.83	NO	41.77	1.000	2.39e4	1.05e6	4.97	-0.6	0.908	bd
3	200528R2_3	20.0	0.89	NO	41.78	1.000	9.89e4	1.03e6	21.0	4.9	0.959	MM
4	200528R2_4	400	0.87	NO	41.77	1.000	2.45e6	1.35e6	397	-0.6	0.908	MM
5	200528R2_5	3000	0.84	NO	41.79	1.000	2.37e7	1.67e6	3100	3.2	0.943	MM
6	200528R2_6	100	0.88	NO	41.78	1.000	4.53e5	9.71e5	102	2.2	0.933	MM

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Compound name: 2,3,7,8-TCDF

Response Factor: 0.75098

RRF SD: 0.0524401, Relative SD: 6.98288

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	200528R2_1	0.250	0.73	NO	25.67	1.001	3.27e3	1.95e6	0.223	-10.9	0.669	bb
2	200528R2_2	0.500	0.75	NO	25.67	1.001	6.53e3	1.78e6	0.488	-2.3	0.733	bb
3	200528R2_3	2.00	0.74	NO	25.68	1.001	2.67e4	1.80e6	1.97	-1.4	0.740	bb
4	200528R2_4	40.0	0.76	NO	25.68	1.001	6.52e5	2.04e6	42.6	6.5	0.800	bb
5	200528R2_5	300	0.75	NO	25.69	1.001	5.00e6	2.04e6	326	8.6	0.816	bb
6	200528R2_6	10.0	0.74	NO	25.69	1.001	1.19e5	1.59e6	9.96	-0.4	0.748	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.892531

RRF SD: 0.0599961, Relative SD: 6.72201

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	200528R2_1	1.25	1.61	NO	30.20	1.000	1.46e4	1.50e6	1.09	-12.9	0.777	bb
2	200528R2_2	2.50	1.55	NO	30.23	1.000	3.08e4	1.37e6	2.52	0.8	0.900	bd
3	200528R2_3	10.0	1.55	NO	30.23	1.000	1.31e5	1.38e6	10.7	7.0	0.955	bb
4	200528R2_4	200	1.54	NO	30.23	1.000	2.94e6	1.63e6	203	1.4	0.905	bb
5	200528R2_5	1500	1.54	NO	30.23	1.000	2.38e7	1.75e6	1520	1.3	0.904	bb
6	200528R2_6	50.0	1.57	NO	30.25	1.000	5.72e5	1.25e6	51.2	2.5	0.915	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 0.934777

RRF SD: 0.0507076, Relative SD: 5.42456

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	200528R2_1	1.25	1.56	NO	31.19	1.000	1.48e4	1.42e6	1.12	-10.8	0.834	bb
2	200528R2_2	2.50	1.55	NO	31.21	1.000	3.19e4	1.35e6	2.52	0.8	0.943	bd

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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	200528R2_3	10.0	1.55	NO	31.21	1.000	1.34e5	1.38e6	10.4	3.7	0.969	bb
4	200528R2_4	200	1.54	NO	31.21	1.000	3.00e6	1.57e6	204	2.2	0.955	bb
5	200528R2_5	1500	1.53	NO	31.21	1.000	2.45e7	1.69e6	1550	3.4	0.967	bb
6	200528R2_6	50.0	1.57	NO	31.22	1.000	5.81e5	1.24e6	50.3	0.7	0.941	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.884459

RRF SD: 0.0674086, Relative SD: 7.62145

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	200528R2_1	1.25	1.25	NO	33.99	1.001	8.98e3	9.42e5	1.08	-13.8	0.762	bd
2	200528R2_2	2.50	1.19	NO	33.99	1.000	1.81e4	8.49e5	2.41	-3.7	0.852	bd
3	200528R2_3	10.0	1.22	NO	34.01	1.001	7.91e4	8.47e5	10.6	5.6	0.934	bd
4	200528R2_4	200	1.18	NO	33.99	1.000	1.87e6	1.02e6	208	3.9	0.919	bd
5	200528R2_5	1500	1.19	NO	34.01	1.000	1.61e7	1.15e6	1590	5.8	0.936	bd
6	200528R2_6	50.0	1.21	NO	34.01	1.000	3.56e5	7.87e5	51.1	2.2	0.904	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 0.889174

RRF SD: 0.0479606, Relative SD: 5.39384

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	200528R2_1	1.25	1.16	NO	34.11	1.001	1.07e4	1.07e6	1.12	-10.7	0.794	MM
2	200528R2_2	2.50	1.25	NO	34.12	1.000	2.16e4	9.70e5	2.50	0.1	0.890	MM
3	200528R2_3	10.0	1.28	NO	34.12	1.000	9.20e4	1.01e6	10.3	2.7	0.914	MM
4	200528R2_4	200	1.18	NO	34.12	1.001	2.16e6	1.18e6	206	2.8	0.914	db
5	200528R2_5	1500	1.19	NO	34.12	1.000	1.80e7	1.33e6	1520	1.2	0.900	db
6	200528R2_6	50.0	1.25	NO	34.13	1.000	4.22e5	9.14e5	51.9	3.8	0.923	MM

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 0.934102

RRF SD: 0.0631666, Relative SD: 6.76228

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	200528R2_1	1.25	1.09	NO	34.70	1.001	9.51e3	9.22e5	1.10	-11.7	0.825	bb
2	200528R2_2	2.50	1.26	NO	34.71	1.001	1.93e4	8.66e5	2.38	-4.7	0.890	bb
3	200528R2_3	10.0	1.25	NO	34.71	1.000	8.53e4	8.69e5	10.5	5.2	0.982	bd
4	200528R2_4	200	1.19	NO	34.71	1.001	2.00e6	1.04e6	207	3.3	0.965	bb
5	200528R2_5	1500	1.19	NO	34.72	1.001	1.72e7	1.18e6	1560	4.1	0.972	bb
6	200528R2_6	50.0	1.25	NO	34.72	1.000	3.88e5	8.00e5	51.9	3.9	0.971	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 0.870707

RRF SD: 0.0533625, Relative SD: 6.12863

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	200528R2_1	1.25	1.19	NO	35.61	1.001	7.48e3	7.73e5	1.11	-11.0	0.775	bb
2	200528R2_2	2.50	1.12	NO	35.61	1.000	1.48e4	7.04e5	2.42	-3.1	0.844	bb
3	200528R2_3	10.0	1.24	NO	35.62	1.000	6.49e4	7.27e5	10.3	2.5	0.892	bd
4	200528R2_4	200	1.20	NO	35.62	1.001	1.60e6	8.84e5	208	3.9	0.904	bb
5	200528R2_5	1500	1.20	NO	35.63	1.000	1.40e7	1.02e6	1580	5.6	0.919	bb
6	200528R2_6	50.0	1.22	NO	35.63	1.000	2.98e5	6.70e5	51.1	2.2	0.890	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 0.873391

RRF SD: 0.0600077, Relative SD: 6.87065

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	200528R2_1	1.25	1.03	NO	37.37	1.000	6.77e3	7.13e5	1.09	-13.1	0.759	bb
2	200528R2_2	2.50	0.94	NO	37.40	1.001	1.40e4	6.49e5	2.48	-0.9	0.866	bb

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Compound name: 1,2,3,4,6,7,8-HpCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.00	NO	37.40	1.001	5.72e4	6.48e5	10.1	1.0	0.883	bd
4	200528R2_4	200	0.99	NO	37.39	1.000	1.43e6	7.67e5	213	6.5	0.930	bb
5	200528R2_5	1500	1.00	NO	37.40	1.000	1.28e7	9.39e5	1560	3.7	0.906	bb
6	200528R2_6	50.0	0.98	NO	37.41	1.001	2.64e5	5.89e5	51.4	2.7	0.897	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.01285

RRF SD: 0.106215, Relative SD: 10.4867

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	200528R2_1	1.25	0.99	NO	39.33	1.001	5.26e3	5.09e5	1.02	-18.4	0.827	bb
2	200528R2_2	2.50	0.98	NO	39.33	1.000	1.03e4	4.36e5	2.33	-6.7	0.945	bb
3	200528R2_3	10.0	1.01	NO	39.34	1.000	4.43e4	4.19e5	10.4	4.3	1.06	MM
4	200528R2_4	200	0.98	NO	39.33	1.000	1.13e6	5.18e5	214	7.2	1.09	bb
5	200528R2_5	1500	1.00	NO	39.34	1.000	1.05e7	6.39e5	1620	8.2	1.10	bb
6	200528R2_6	50.0	0.98	NO	39.34	1.000	2.00e5	3.75e5	52.7	5.4	1.07	bb

Compound name: OCDF

Response Factor: 0.806476

RRF SD: 0.0306481, Relative SD: 3.80025

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	200528R2_1	2.50	0.87	NO	41.96	1.000	1.27e4	1.35e6	2.33	-6.6	0.753	bb
2	200528R2_2	5.00	0.84	NO	41.96	1.000	2.40e4	1.22e6	4.89	-2.2	0.789	bb
3	200528R2_3	20.0	0.86	NO	41.96	1.000	9.80e4	1.18e6	20.6	3.0	0.831	bb
4	200528R2_4	400	0.87	NO	41.96	1.000	2.54e6	1.57e6	402	0.5	0.810	bb
5	200528R2_5	3000	0.88	NO	41.98	1.000	2.39e7	1.92e6	3090	3.1	0.831	bb
6	200528R2_6	100	0.85	NO	41.97	1.000	4.44e5	1.08e6	102	2.3	0.825	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.15633

RRF SD: 0.0999567, Relative SD: 8.64433

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	200528R2_1	100	0.80	NO	26.54	1.026	1.43e6	1.11e6	111	11.2	1.29	bb
2	200528R2_2	100	0.79	NO	26.54	1.025	1.29e6	1.24e6	89.8	-10.2	1.04	bb
3	200528R2_3	100	0.79	NO	26.54	1.025	1.31e6	1.26e6	89.8	-10.2	1.04	bb
4	200528R2_4	100	0.79	NO	26.54	1.025	1.50e6	1.26e6	103	2.8	1.19	bb
5	200528R2_5	100	0.78	NO	26.56	1.025	1.52e6	1.24e6	106	5.5	1.22	bb
6	200528R2_6	100	0.79	NO	26.56	1.025	1.16e6	9.95e5	101	0.8	1.17	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.848975

RRF SD: 0.0899186, Relative SD: 10.5914

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	200528R2_1	100	0.64	NO	31.48	1.216	1.00e6	1.11e6	107	6.6	0.905	bb
2	200528R2_2	100	0.63	NO	31.50	1.216	9.36e5	1.24e6	88.7	-11.3	0.753	bb
3	200528R2_3	100	0.63	NO	31.50	1.216	9.29e5	1.26e6	86.8	-13.2	0.737	bb
4	200528R2_4	100	0.64	NO	31.50	1.216	1.11e6	1.26e6	103	3.3	0.877	bb
5	200528R2_5	100	0.64	NO	31.50	1.215	1.21e6	1.24e6	114	14.3	0.970	bb
6	200528R2_6	100	0.64	NO	31.50	1.215	8.48e5	9.95e5	100	0.3	0.852	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.778953

RRF SD: 0.096377, Relative SD: 12.3726

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	200528R2_1	100	1.27	NO	34.85	1.014	6.95e5	8.40e5	106	6.2	0.827	bd
2	200528R2_2	100	1.28	NO	34.87	1.014	6.46e5	9.66e5	85.9	-14.1	0.669	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	200528R2_3	100	1.27	NO	34.87	1.014	6.61e5	9.75e5	87.0	-13.0	0.678	bd
4	200528R2_4	100	1.28	NO	34.86	1.014	7.89e5	9.81e5	103	3.4	0.805	bd
5	200528R2_5	100	1.28	NO	34.87	1.014	9.34e5	1.01e6	119	18.6	0.924	bd
6	200528R2_6	100	1.27	NO	34.88	1.014	6.04e5	7.84e5	98.9	-1.1	0.770	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 1.01669

RRF SD: 0.116266, Relative SD: 11.4358

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	200528R2_1	100	1.27	NO	34.95	1.017	9.27e5	8.40e5	108	8.5	1.10	db
2	200528R2_2	100	1.27	NO	34.96	1.017	8.61e5	9.66e5	87.7	-12.3	0.891	db
3	200528R2_3	100	1.26	NO	34.97	1.017	8.39e5	9.75e5	84.7	-15.3	0.861	db
4	200528R2_4	100	1.25	NO	34.96	1.017	1.03e6	9.81e5	104	3.5	1.05	db
5	200528R2_5	100	1.27	NO	34.97	1.017	1.17e6	1.01e6	113	13.4	1.15	db
6	200528R2_6	100	1.23	NO	34.97	1.017	8.15e5	7.84e5	102	2.3	1.04	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.902653

RRF SD: 0.11238, Relative SD: 12.45

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	200528R2_1	100	1.23	NO	35.24	1.025	8.33e5	8.40e5	110	9.8	0.991	bb
2	200528R2_2	100	1.26	NO	35.25	1.025	7.48e5	9.66e5	85.8	-14.2	0.774	bb
3	200528R2_3	100	1.28	NO	35.25	1.025	7.53e5	9.75e5	85.6	-14.4	0.773	bd
4	200528R2_4	100	1.23	NO	35.25	1.025	9.12e5	9.81e5	103	3.1	0.930	MM
5	200528R2_5	100	1.26	NO	35.26	1.025	1.06e6	1.01e6	116	16.1	1.05	bb
6	200528R2_6	100	1.18	NO	35.26	1.025	7.05e5	7.84e5	99.6	-0.4	0.899	bb

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

Response Factor: 0.689179
 RRF SD: 0.0899136, Relative SD: 13.0465
 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	200528R2_1	100	1.06	NO	38.77	1.128	6.48e5	8.40e5	112	11.9	0.771	MM
2	200528R2_2	100	1.04	NO	38.78	1.128	6.01e5	9.66e5	90.2	-9.8	0.622	bd
3	200528R2_3	100	1.12	NO	38.79	1.128	5.57e5	9.75e5	83.0	-17.0	0.572	bd
4	200528R2_4	100	1.04	NO	38.78	1.128	6.86e5	9.81e5	102	1.6	0.700	MM
5	200528R2_5	100	1.03	NO	38.80	1.128	8.18e5	1.01e6	117	17.4	0.809	bb
6	200528R2_6	100	1.04	NO	38.80	1.128	5.18e5	7.84e5	95.9	-4.1	0.661	bd

Compound name: 13C-OCDD

Response Factor: 0.652099
 RRF SD: 0.111511, Relative SD: 17.1002
 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	200528R2_1	200	0.89	NO	41.75	1.215	1.18e6	8.40e5	216	7.8	0.703	MM
2	200528R2_2	200	0.89	NO	41.76	1.215	1.05e6	9.66e5	167	-16.3	0.546	MM
3	200528R2_3	200	0.91	NO	41.76	1.214	1.03e6	9.75e5	162	-18.9	0.529	bd
4	200528R2_4	200	0.90	NO	41.76	1.215	1.35e6	9.81e5	211	5.7	0.689	bd
5	200528R2_5	200	0.93	NO	41.78	1.215	1.67e6	1.01e6	254	26.9	0.827	bd
6	200528R2_6	200	0.88	NO	41.77	1.215	9.71e5	7.84e5	190	-5.1	0.619	bd

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.05898
 RRF SD: 0.0854755, Relative SD: 8.07146
 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	200528R2_1	100	0.76	NO	25.65	0.991	1.95e6	1.65e6	112	12.1	1.19	bb
2	200528R2_2	100	0.77	NO	25.66	0.991	1.78e6	1.83e6	92.1	-7.9	0.975	bb

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Compound name: 13C-2,3,7,8-TCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.78	NO	25.66	0.991	1.80e6	1.89e6	90.1	-9.9	0.955	bb
4	200528R2_4	100	0.78	NO	25.66	0.991	2.04e6	1.91e6	101	1.0	1.07	bb
5	200528R2_5	100	0.78	NO	25.67	0.991	2.04e6	1.85e6	104	4.2	1.10	bb
6	200528R2_6	100	0.77	NO	25.68	0.991	1.59e6	1.49e6	101	0.5	1.06	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.837982

RRF SD: 0.0870192, Relative SD: 10.3844

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	200528R2_1	100	1.59	NO	30.20	1.167	1.50e6	1.65e6	109	9.0	0.913	bb
2	200528R2_2	100	1.59	NO	30.22	1.167	1.37e6	1.83e6	89.3	-10.7	0.748	bb
3	200528R2_3	100	1.59	NO	30.22	1.167	1.38e6	1.89e6	86.9	-13.1	0.728	bb
4	200528R2_4	100	1.61	NO	30.22	1.167	1.63e6	1.91e6	102	1.9	0.854	bb
5	200528R2_5	100	1.63	NO	30.22	1.166	1.75e6	1.85e6	113	12.9	0.946	bb
6	200528R2_6	100	1.60	NO	30.23	1.166	1.25e6	1.49e6	100	0.0	0.838	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.816557

RRF SD: 0.0702322, Relative SD: 8.60101

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	200528R2_1	100	1.60	NO	31.18	1.204	1.42e6	1.65e6	106	5.9	0.865	db
2	200528R2_2	100	1.57	NO	31.19	1.204	1.35e6	1.83e6	90.7	-9.3	0.741	db
3	200528R2_3	100	1.61	NO	31.19	1.204	1.38e6	1.89e6	89.4	-10.6	0.730	db
4	200528R2_4	100	1.61	NO	31.19	1.204	1.57e6	1.91e6	101	1.0	0.825	db
5	200528R2_5	100	1.60	NO	31.19	1.204	1.69e6	1.85e6	112	11.5	0.911	bb
6	200528R2_6	100	1.59	NO	31.21	1.204	1.24e6	1.49e6	101	1.4	0.828	db

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 1.00752

RRF SD: 0.115021, Relative SD: 11.4162

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	200528R2_1	100	0.50	NO	33.97	0.988	9.42e5	8.40e5	111	11.3	1.12	bd
2	200528R2_2	100	0.50	NO	33.98	0.988	8.49e5	9.66e5	87.2	-12.8	0.878	bd
3	200528R2_3	100	0.50	NO	33.98	0.988	8.47e5	9.75e5	86.2	-13.8	0.869	bd
4	200528R2_4	100	0.50	NO	33.98	0.988	1.02e6	9.81e5	103	3.0	1.04	bd
5	200528R2_5	100	0.50	NO	33.99	0.988	1.15e6	1.01e6	113	12.7	1.14	bd
6	200528R2_6	100	0.50	NO	33.99	0.988	7.87e5	7.84e5	99.6	-0.4	1.00	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.16702

RRF SD: 0.127304, Relative SD: 10.9085

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	200528R2_1	100	0.50	NO	34.09	0.992	1.07e6	8.40e5	110	9.5	1.28	db
2	200528R2_2	100	0.51	NO	34.11	0.992	9.70e5	9.66e5	86.1	-13.9	1.00	db
3	200528R2_3	100	0.51	NO	34.11	0.992	1.01e6	9.75e5	88.5	-11.5	1.03	db
4	200528R2_4	100	0.51	NO	34.10	0.992	1.18e6	9.81e5	103	3.1	1.20	db
5	200528R2_5	100	0.51	NO	34.11	0.992	1.33e6	1.01e6	113	13.0	1.32	db
6	200528R2_6	100	0.50	NO	34.12	0.992	9.14e5	7.84e5	99.8	-0.2	1.17	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 1.02186

RRF SD: 0.110658, Relative SD: 10.829

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	200528R2_1	100	0.51	NO	34.68	1.009	9.22e5	8.40e5	107	7.4	1.10	bb
2	200528R2_2	100	0.50	NO	34.69	1.009	8.66e5	9.66e5	87.7	-12.3	0.896	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	200528R2_3	100	0.51	NO	34.70	1.009	8.69e5	9.75e5	87.2	-12.8	0.891	bb
4	200528R2_4	100	0.51	NO	34.69	1.009	1.04e6	9.81e5	104	3.6	1.06	bb
5	200528R2_5	100	0.50	NO	34.70	1.009	1.18e6	1.01e6	114	14.3	1.17	bb
6	200528R2_6	100	0.51	NO	34.71	1.009	8.00e5	7.84e5	99.8	-0.2	1.02	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.859541

RRF SD: 0.107178, Relative SD: 12.4692

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	200528R2_1	100	0.51	NO	35.59	1.036	7.73e5	8.40e5	107	7.0	0.919	MM
2	200528R2_2	100	0.50	NO	35.61	1.036	7.04e5	9.66e5	84.8	-15.2	0.729	MM
3	200528R2_3	100	0.50	NO	35.61	1.036	7.27e5	9.75e5	86.8	-13.2	0.746	MM
4	200528R2_4	100	0.49	NO	35.60	1.036	8.84e5	9.81e5	105	4.9	0.902	bb
5	200528R2_5	100	0.51	NO	35.62	1.036	1.02e6	1.01e6	117	17.3	1.01	bb
6	200528R2_6	100	0.51	NO	35.63	1.036	6.70e5	7.84e5	99.3	-0.7	0.854	bd

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

Response Factor: 0.774499

RRF SD: 0.102271, Relative SD: 13.2048

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	200528R2_1	100	0.44	NO	37.37	1.087	7.13e5	8.40e5	110	9.6	0.849	bd
2	200528R2_2	100	0.42	NO	37.38	1.087	6.49e5	9.66e5	86.7	-13.3	0.672	bb
3	200528R2_3	100	0.44	NO	37.38	1.087	6.48e5	9.75e5	85.9	-14.1	0.665	bd
4	200528R2_4	100	0.44	NO	37.38	1.087	7.67e5	9.81e5	101	0.9	0.782	bb
5	200528R2_5	100	0.44	NO	37.39	1.087	9.39e5	1.01e6	120	19.9	0.928	bd
6	200528R2_6	100	0.43	NO	37.39	1.087	5.89e5	7.84e5	97.0	-3.0	0.751	bb

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.520991

RRF SD: 0.083066, Relative SD: 15.9439

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	200528R2_1	100	0.43	NO	39.31	1.144	5.09e5	8.40e5	116	16.3	0.606	MM
2	200528R2_2	100	0.42	NO	39.32	1.144	4.36e5	9.66e5	86.7	-13.3	0.452	bb
3	200528R2_3	100	0.42	NO	39.33	1.144	4.19e5	9.75e5	82.5	-17.5	0.430	MM
4	200528R2_4	100	0.42	NO	39.32	1.144	5.18e5	9.81e5	101	1.4	0.529	MM
5	200528R2_5	100	0.44	NO	39.33	1.144	6.39e5	1.01e6	121	21.3	0.632	bb
6	200528R2_6	100	0.43	NO	39.34	1.144	3.75e5	7.84e5	91.8	-8.2	0.478	bd

Compound name: 13C-OCDF

Response Factor: 0.745653

RRF SD: 0.129429, Relative SD: 17.3579

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	200528R2_1	200	0.87	NO	41.94	1.220	1.35e6	8.40e5	215	7.6	0.803	bb
2	200528R2_2	200	0.83	NO	41.95	1.220	1.22e6	9.66e5	169	-15.4	0.631	bb
3	200528R2_3	200	0.90	NO	41.96	1.220	1.18e6	9.75e5	162	-18.8	0.605	bd
4	200528R2_4	200	0.88	NO	41.95	1.220	1.57e6	9.81e5	215	7.3	0.800	MM
5	200528R2_5	200	0.88	NO	41.97	1.220	1.92e6	1.01e6	254	27.2	0.949	bb
6	200528R2_6	200	0.90	NO	41.96	1.220	1.08e6	7.84e5	184	-7.9	0.687	MM

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.03685

RRF SD: 0.126311, Relative SD: 12.1822

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	200528R2_1	0.250			26.57	1.027	2.71e3	1.11e6	0.235	-5.9	0.976	bb
2	200528R2_2	0.500			26.56	1.025	5.67e3	1.24e6	0.440	-11.9	0.913	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	2.00			26.57	1.026	2.30e4	1.26e6	1.76	-12.0	0.912	bd
4	200528R2_4	40.0			26.56	1.025	5.78e5	1.26e6	44.1	10.2	1.14	bb
5	200528R2_5	200			26.57	1.025	3.03e6	1.24e6	235	17.7	1.22	bb
6	200528R2_6	10.0			26.59	1.026	1.05e5	9.95e5	10.2	2.1	1.06	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	200528R2_1	100	0.80	NO	25.89	1.000	1.11e6	1.11e6	100	0.0	1.00	bb
2	200528R2_2	100	0.81	NO	25.90	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
3	200528R2_3	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
4	200528R2_4	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
5	200528R2_5	100	0.80	NO	25.92	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
6	200528R2_6	100	0.80	NO	25.92	1.000	9.95e5	9.95e5	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	200528R2_1	100	0.78	NO	24.22	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	200528R2_2	100	0.78	NO	24.22	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
3	200528R2_3	100	0.78	NO	24.22	1.000	1.89e6	1.89e6	100	0.0	1.00	bb
4	200528R2_4	100	0.79	NO	24.22	1.000	1.91e6	1.91e6	100	0.0	1.00	bb
5	200528R2_5	100	0.79	NO	24.24	1.000	1.85e6	1.85e6	100	0.0	1.00	bb
6	200528R2_6	100	0.77	NO	24.24	1.000	1.49e6	1.49e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

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	200528R2_1	100	0.50	NO	34.37	1.000	8.40e5	8.40e5	100	0.0	1.00	bb
2	200528R2_2	100	0.51	NO	34.38	1.000	9.66e5	9.66e5	100	0.0	1.00	bb
3	200528R2_3	100	0.51	NO	34.39	1.000	9.75e5	9.75e5	100	0.0	1.00	bb
4	200528R2_4	100	0.51	NO	34.38	1.000	9.81e5	9.81e5	100	0.0	1.00	bb
5	200528R2_5	100	0.51	NO	34.39	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
6	200528R2_6	100	0.50	NO	34.39	1.000	7.84e5	7.84e5	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.59
2	2 1,2,8,9-TCDD (Last)	27.53
3	3 1,2,4,7,9-PeCDD (First)	29.32
4	4 1,2,3,8,9-PeCDD (Last)	31.89
5	5 1,2,4,6,7,9-HxCDD (First)	33.39
6	6 1,2,3,7,8,9-HxCDD (Last)	35.27
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.81
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.81
9	9 1,3,6,8-TCDF (First)	20.44
10	10 1,2,8,9-TCDF (Last)	27.68
11	11 1,3,4,6,8-PeCDF (First)	27.64
12	12 1,2,3,8,9-PeCDF (Last)	32.14
13	13 1,2,3,4,6,8-HxCDF (First)	32.83
14	14 1,2,3,7,8,9-HxCDF (Last)	35.63
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.41
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.34

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

GRB 05/29/2020

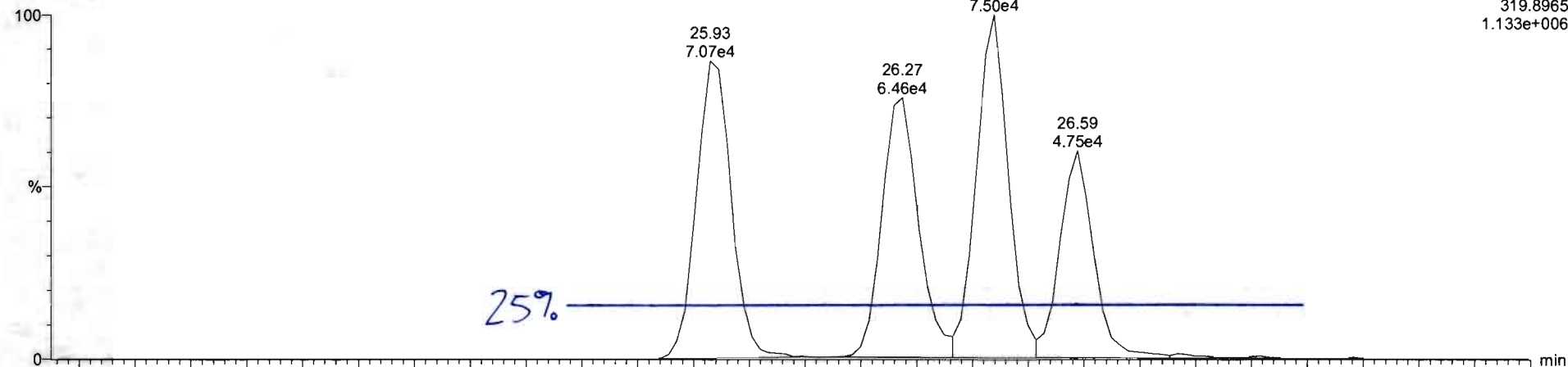
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

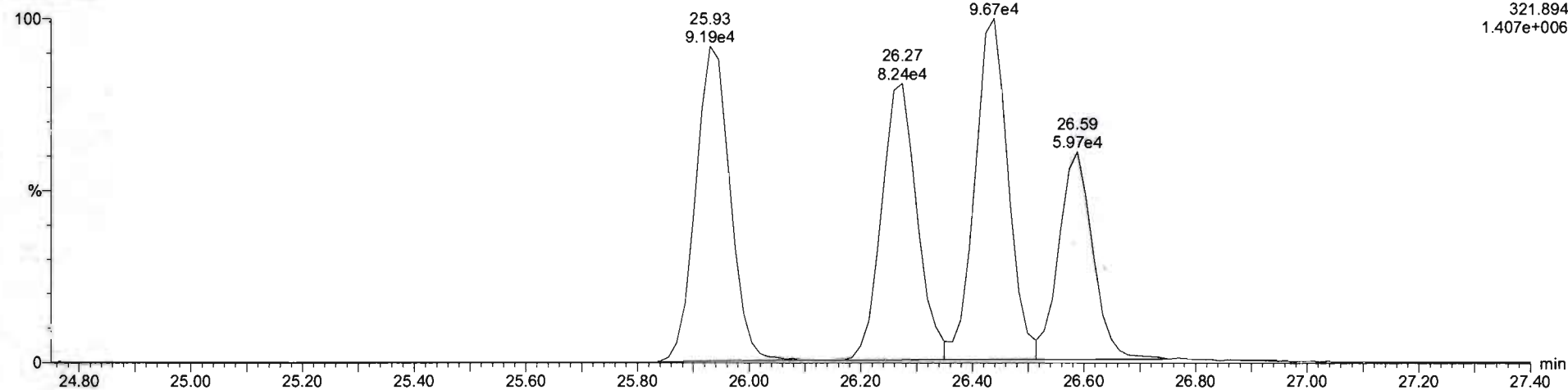
1,3,6,8-TCDD (First)

200528R2_6



F1:Voltage SIR,EI+
319.8965
1.133e+006

200528R2_6



F1:Voltage SIR,EI+
321.894
1.407e+006

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, May 29, 2020 8:08:41 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 8:08:46 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200528R2_1	ST200528R2_1 1613 CS0 19L2302	28-May-20	11:53:52
2	200528R2_2	ST200528R2_2 1613 CS1 19L2303	28-May-20	12:41:31
3	200528R2_3	ST200528R2_3 1613 CS2 19L2304	28-May-20	13:28:43
4	200528R2_4	ST200528R2_4 1613 CS4 19L2306	28-May-20	14:15:50
5	200528R2_5	ST200528R2_5 1613 CS5 19L2307	28-May-20	15:02:56
6	200528R2_6	ST200528R2_6 1613 CS3 19L2305	28-May-20	15:50:32
7	200528R2_7	SOLVENT BLANK	28-May-20	16:37:46
8	200528R2_8	SS200528R2_1 1613 SSS 19L2308	28-May-20	17:24:01
9	200528R2_9	B0E0131-BS1 OPR 1	28-May-20	18:10:13
10	200528R2_10	B0E0165-BS1 OPR 1	28-May-20	18:56:26
11	200528R2_11	B0E0127-BS1 OPR 1	28-May-20	19:42:36
12	200528R2_12	B0E0180-BS1 OPR 10	28-May-20	20:28:48
13	200528R2_13	SOLVENT BLANK	28-May-20	21:15:00
14	200528R2_14	B0E0180-BLK1 Method Blank 10	28-May-20	22:01:12
15	200528R2_15	B0E0131-BLK1 Method Blank 1	28-May-20	22:47:24
16	200528R2_16	B0E0165-BLK1 Method Blank 1	28-May-20	23:33:37
17	200528R2_17	B0E0127-BLK1 Method Blank 1	29-May-20	00:19:48
18	200528R2_18	2001052-01 ZID-001 1.00002	29-May-20	01:06:00
19	200528R2_19	2001031-01 Forebay Composite (24hr) 0.95078	29-May-20	01:52:12
20	200528R2_20	2001092-01 OF-031A BiWeekly Composite D/...	29-May-20	02:38:24

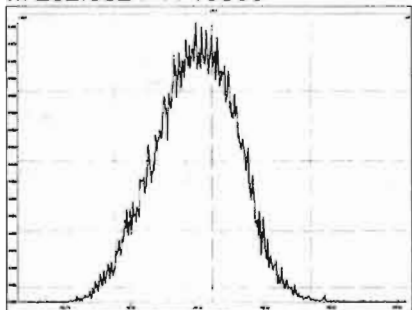
Experiment Calibration Report

MassLynx 4.1 SCN815

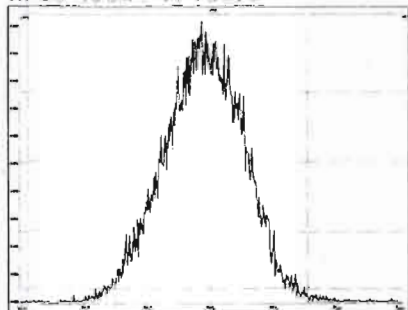
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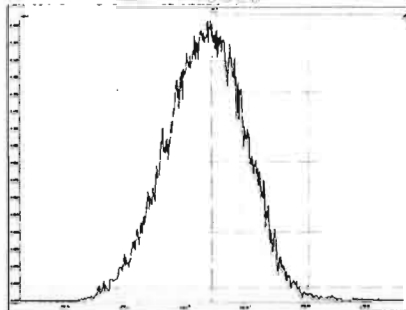
M 292.9824 R 10503



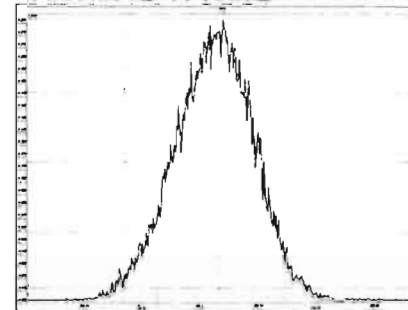
M 304.9824 R 10376



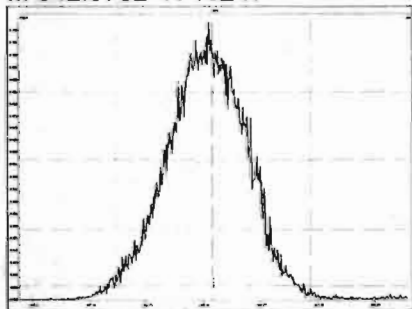
M 318.9792 R 10589



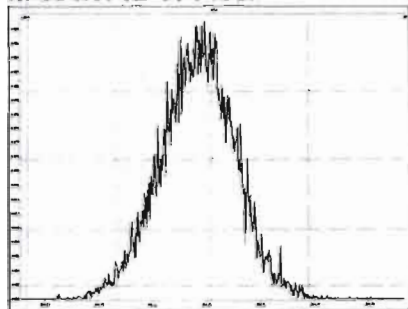
M 330.9792 R 10552



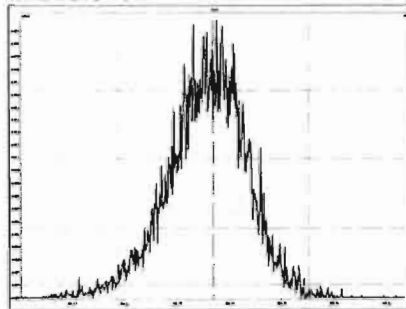
M 342.9792 R 10247



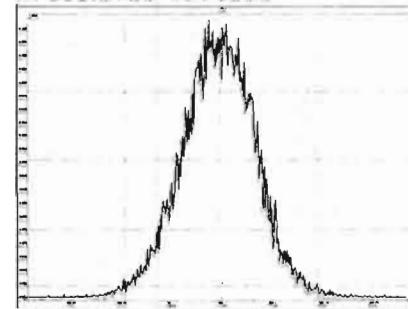
M 354.9792 R 10330



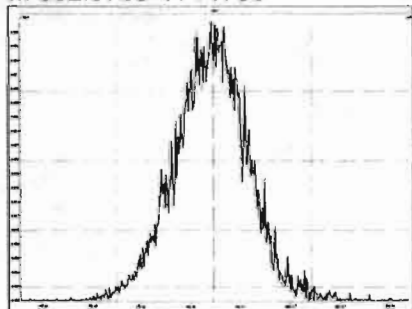
M 366.9792 R 11417



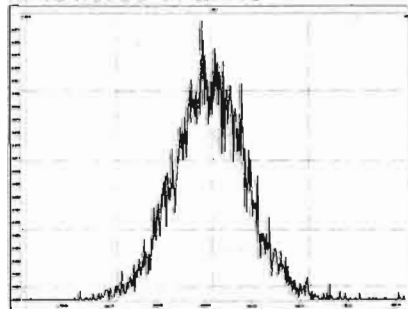
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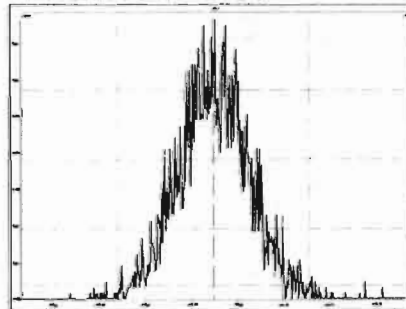
M 392.9760 R 11790



M 404.9760 R 12316



M 416.9760 R 12754



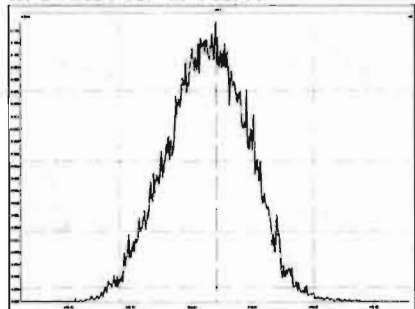
Experiment Calibration Report

MassLynx 4.1 SCN815

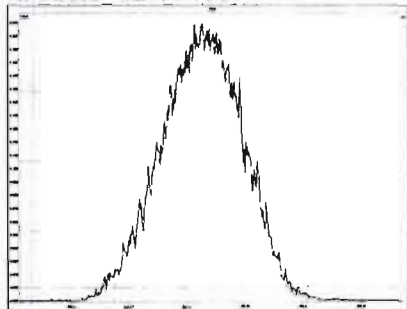
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Printed: Thursday, May 28, 2020 11:49:33 Pacific Daylight Time

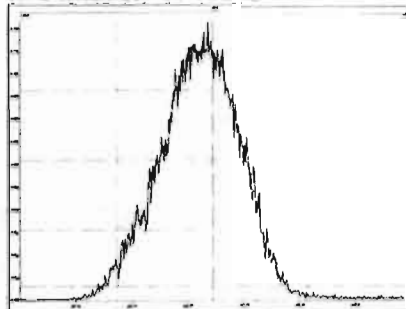
M 318.9792 R 10247



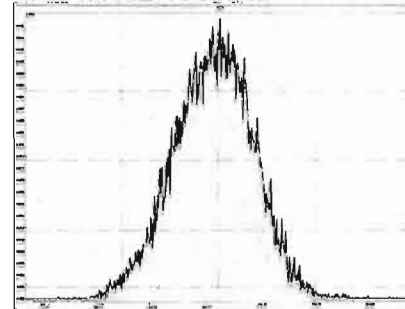
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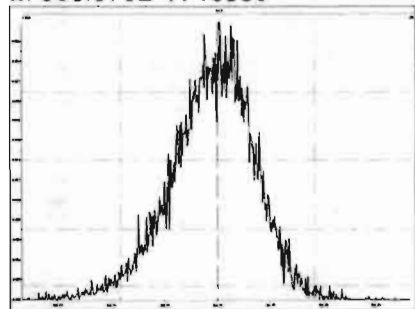
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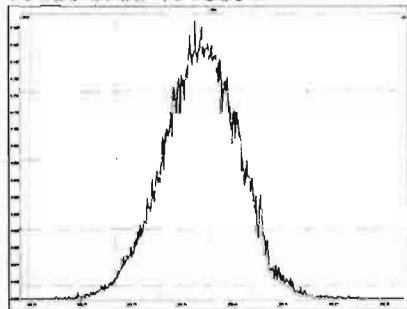
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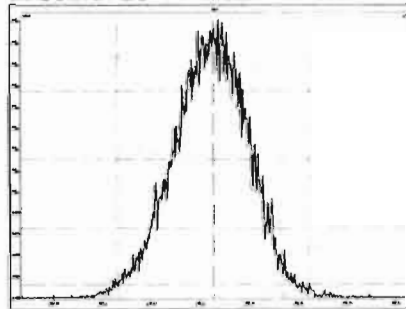
M 366.9792 R 10963



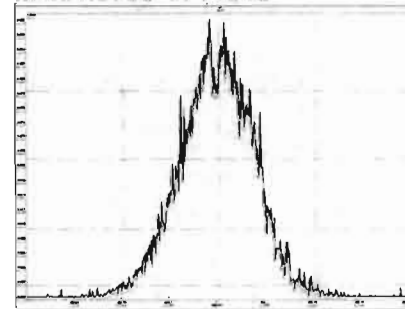
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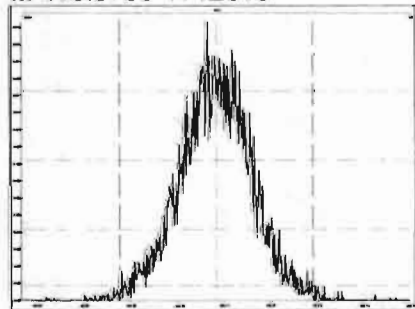
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M 404.9760 R 11845



M 416.9760 R 12018



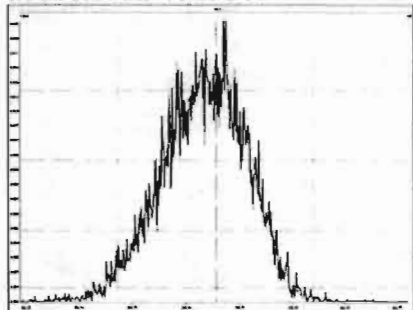
Experiment Calibration Report

MassLynx 4.1 SCN815

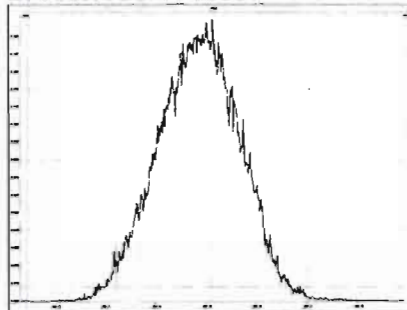
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Printed: Thursday, May 28, 2020 11:50:12 Pacific Daylight Time

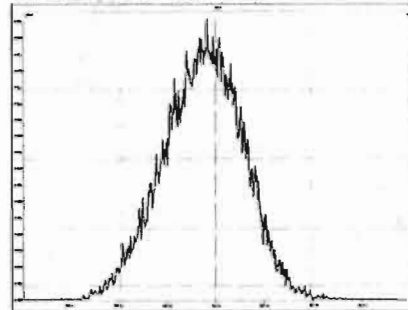
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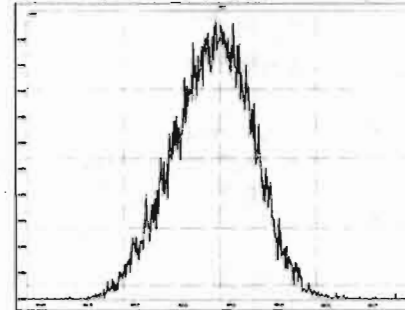
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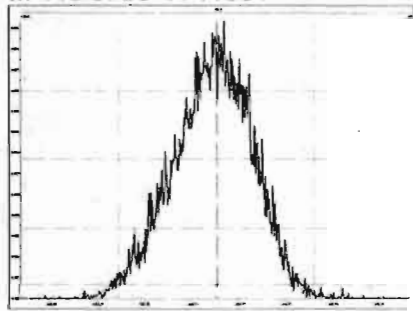
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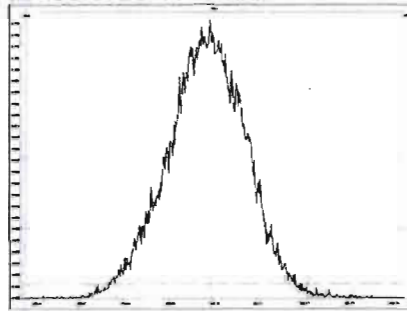
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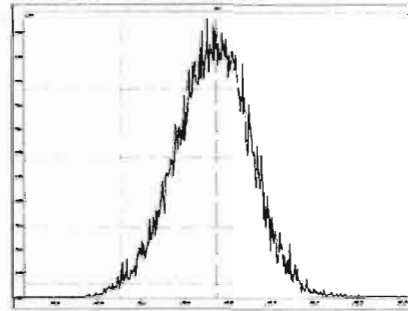
M 416.9760 R 11061



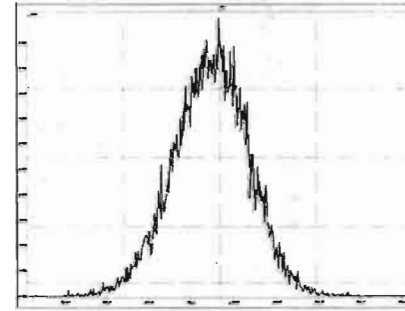
M 430.9728 R 10290



M 442.9728 R 10593



M 454.9728 R 10919



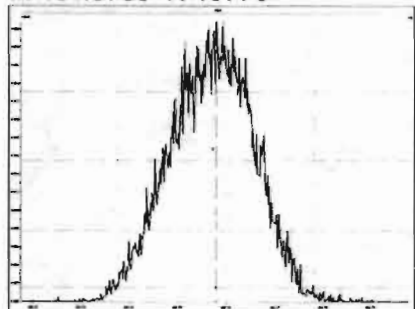
Experiment Calibration Report

MassLynx 4.1 SCN815

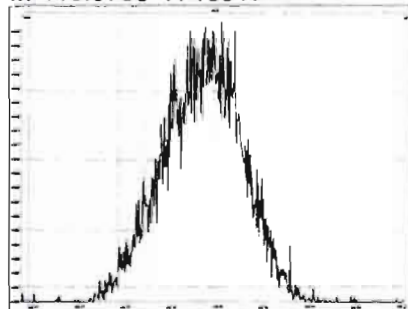
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Printed: Thursday, May 28, 2020 11:51:03 Pacific Daylight Time

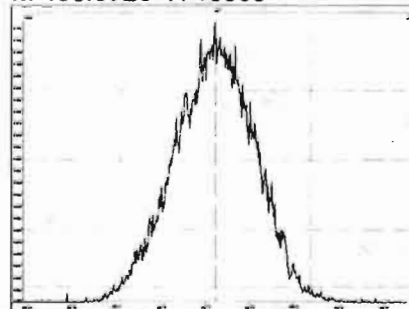
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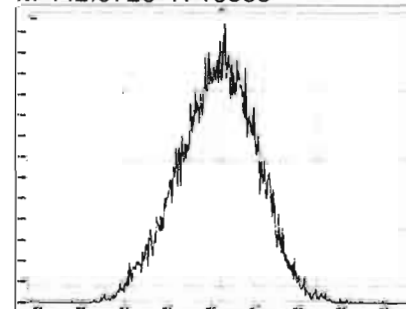
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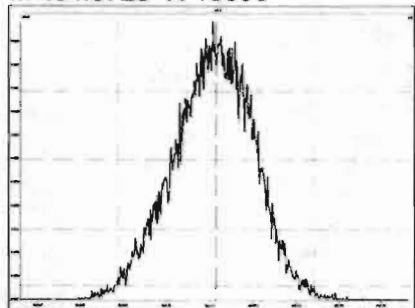
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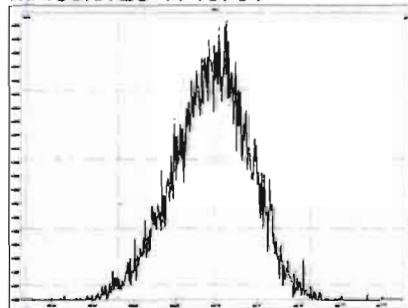
M 442.9728 R 10636



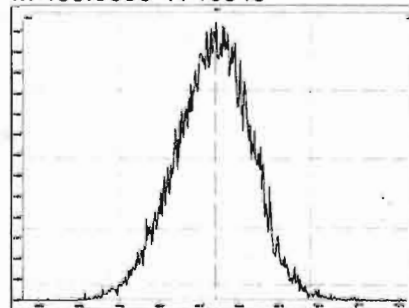
M 454.9728 R 10638



M 466.9728 R 10731



M 480.9696 R 10545



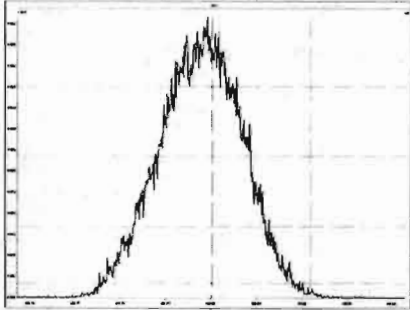
Experiment Calibration Report

MassLynx 4.1 SCN815

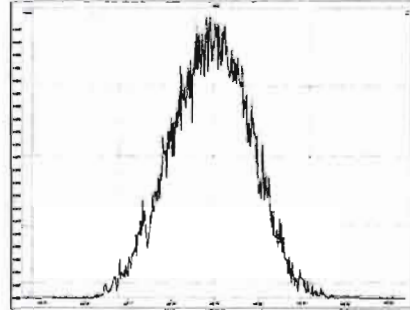
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Printed: Thursday, May 28, 2020 11:51:45 Pacific Daylight Time

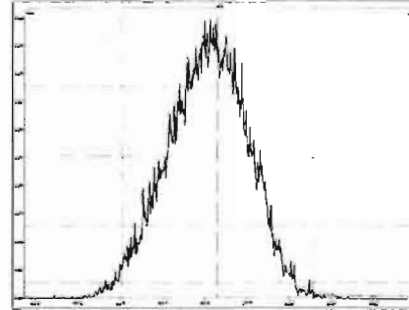
M 430.9728 R 10118



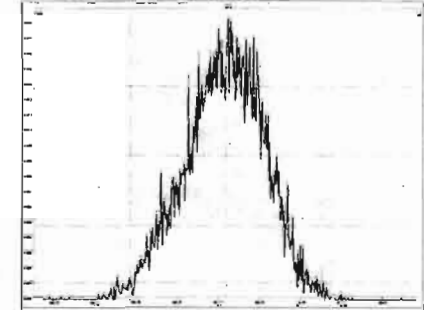
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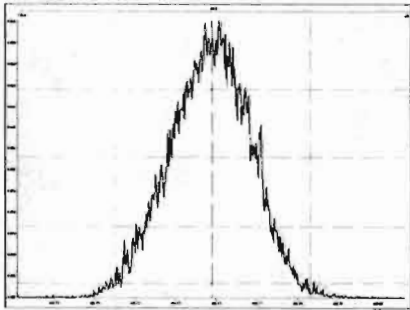
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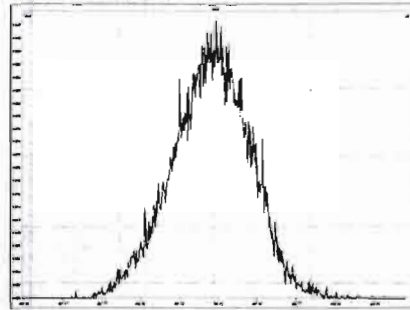
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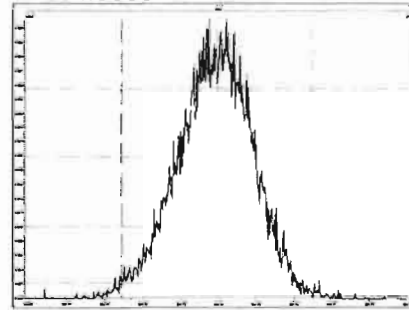
M 480.9696 R 10915



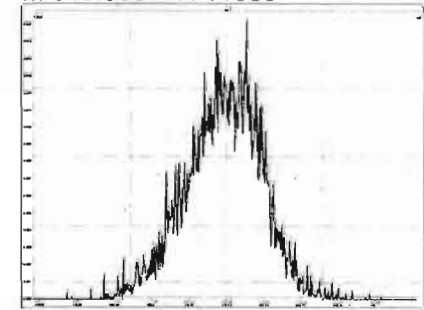
M 492.9696 R 10639



M 504.9696 R 10729



M 516.9697 R 11683



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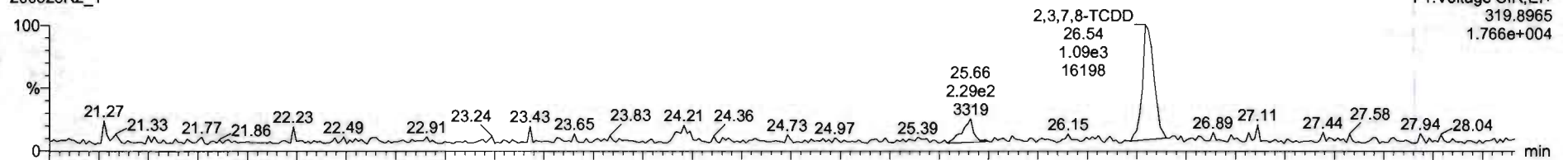
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Calibration: 29 May 2020 07:49:30

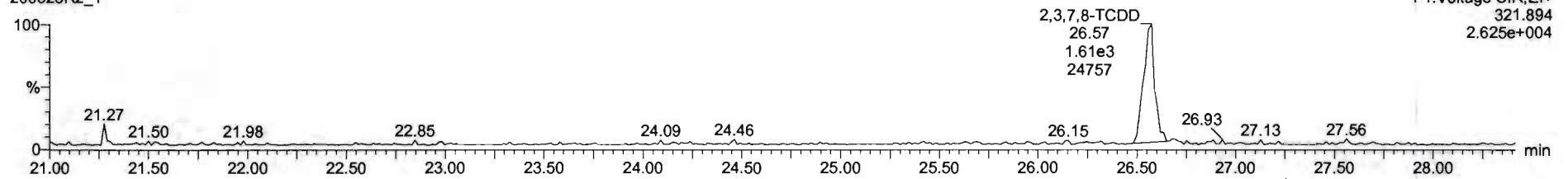
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2,3,7,8-TCDD

200528R2_1

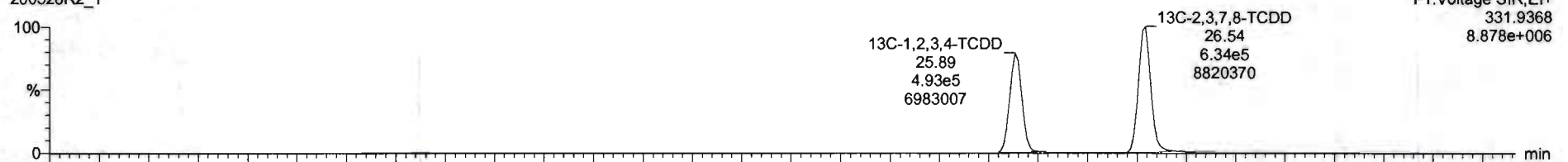


200528R2_1

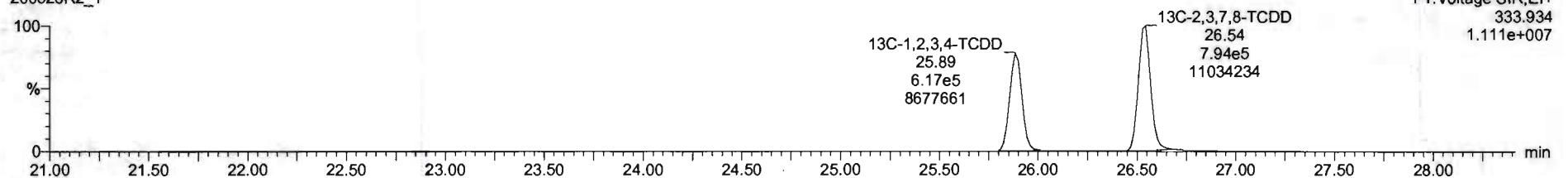


13C-2,3,7,8-TCDD

200528R2_1



200528R2_1



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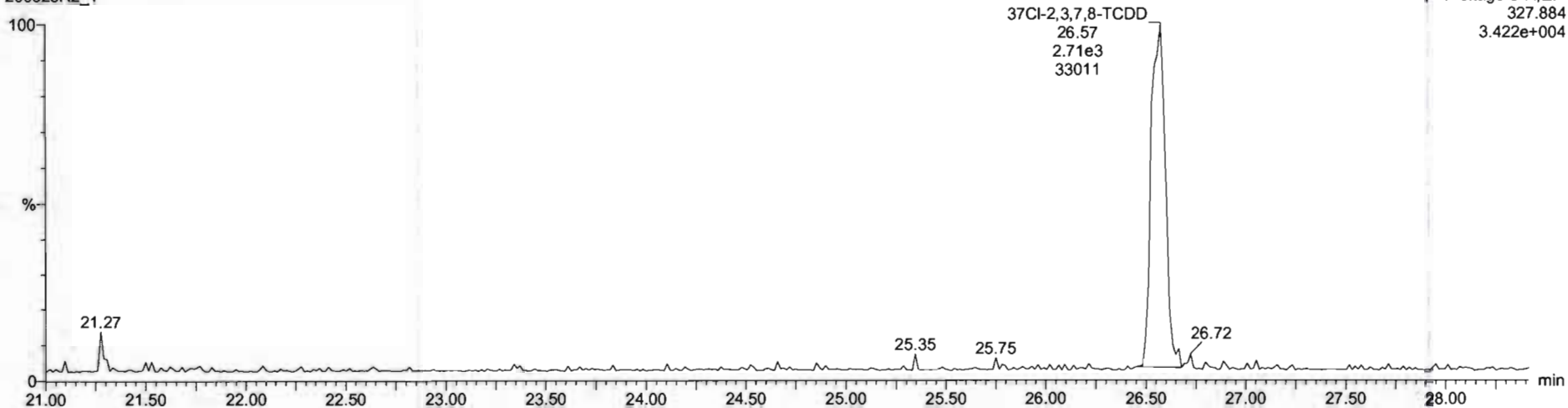
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37Cl-2,3,7,8-TCDD

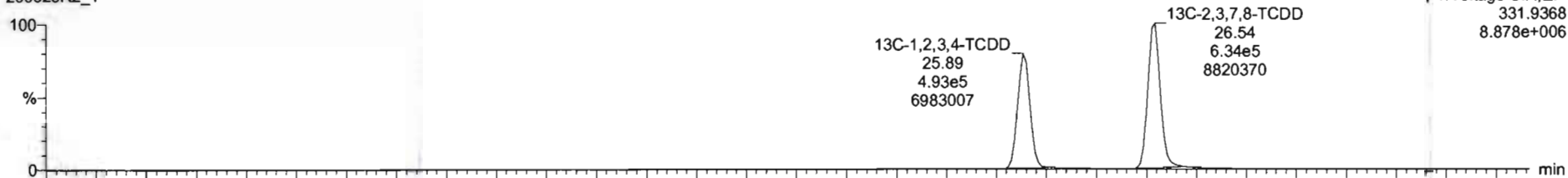
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F1: Voltage SIR, EI+
327.884
3.422e+004

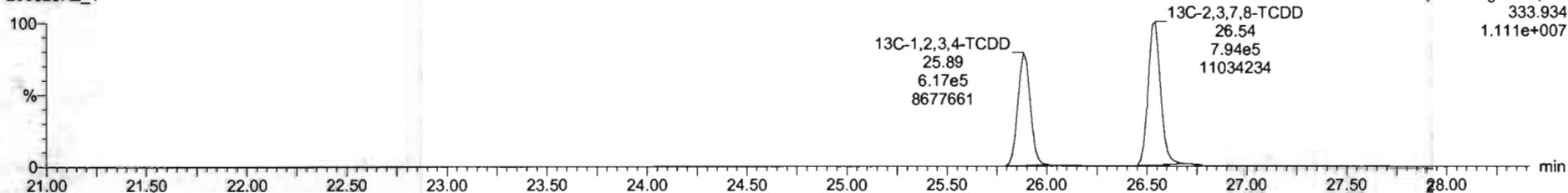
13C-1,2,3,4-TCDD

200528R2_1



F1: Voltage SIR, EI+
331.9368
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200528R2_1



F1: Voltage SIR, EI+
333.934
1.111e+007

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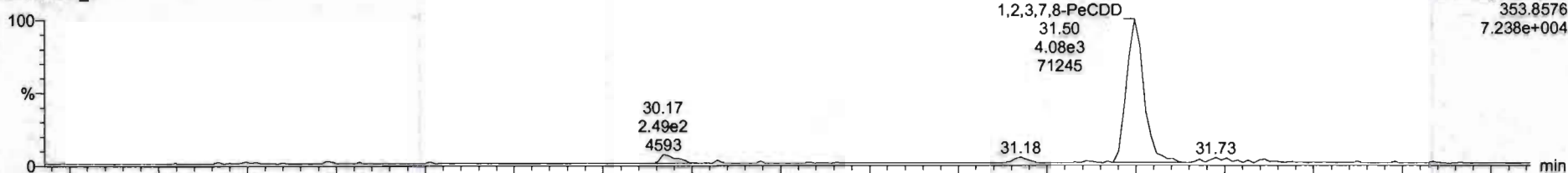
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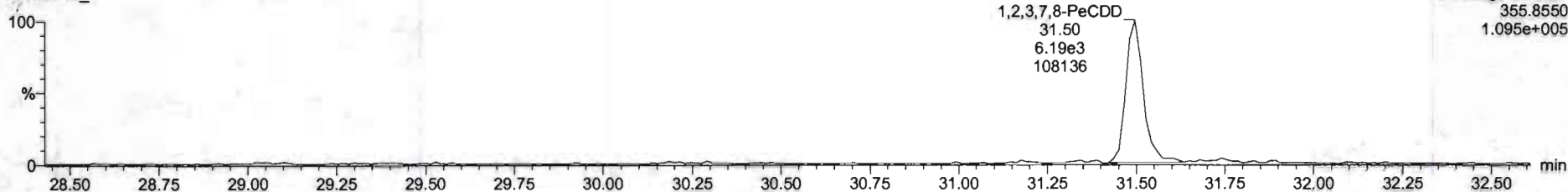
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1,2,3,7,8-PeCDD

200528R2_1

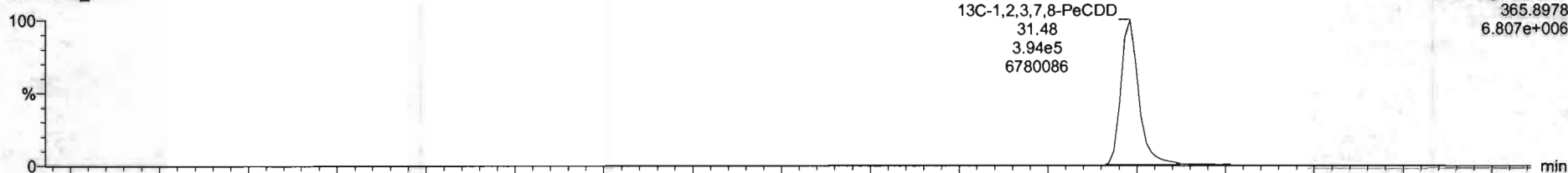


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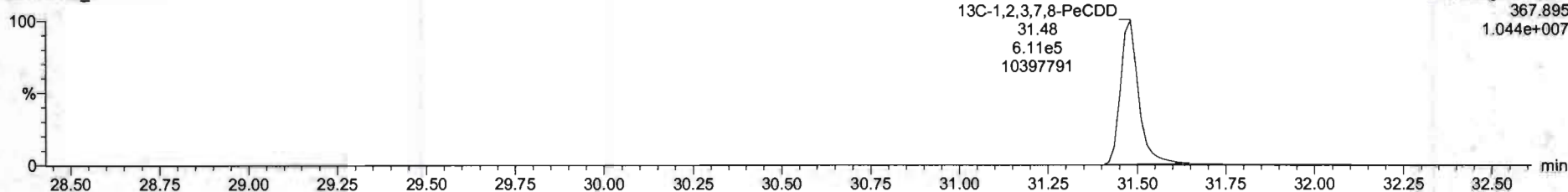


13C-1,2,3,7,8-PeCDD

200528R2_1



200528R2_1



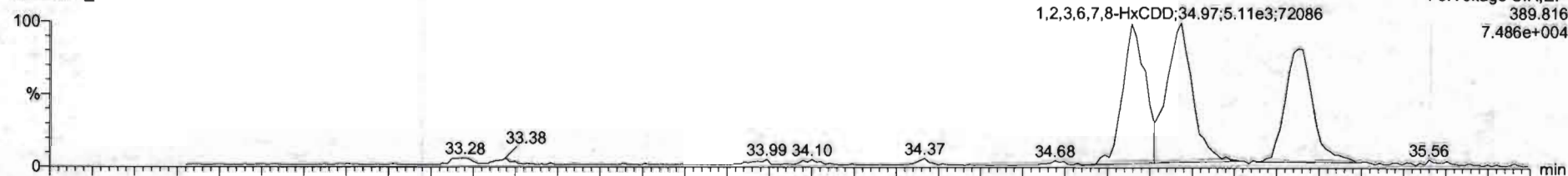
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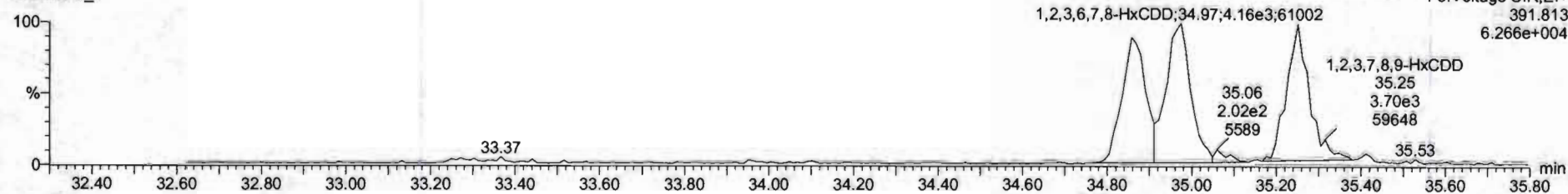
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1,2,3,4,7,8-HxCDD

200528R2_1

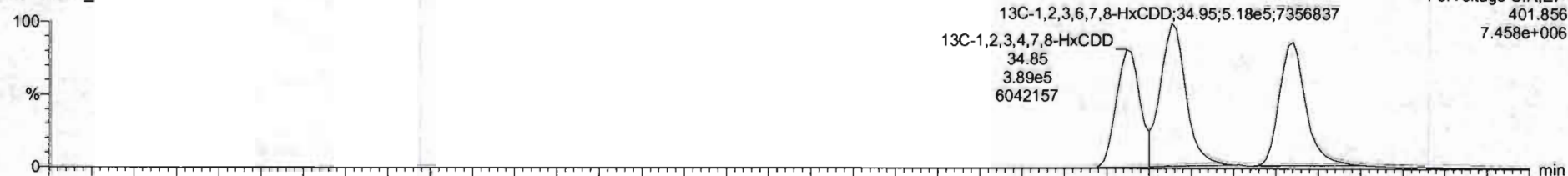


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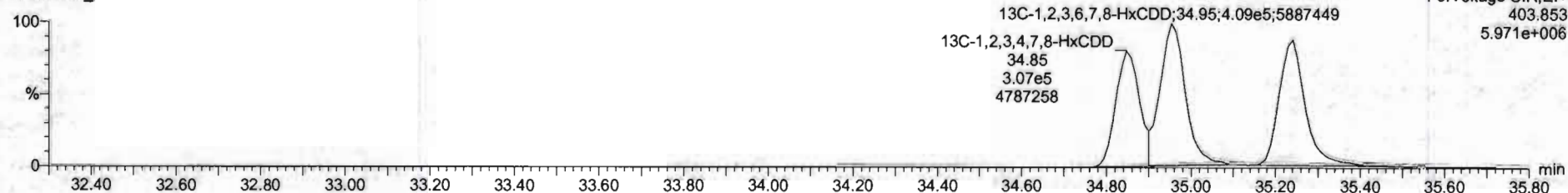


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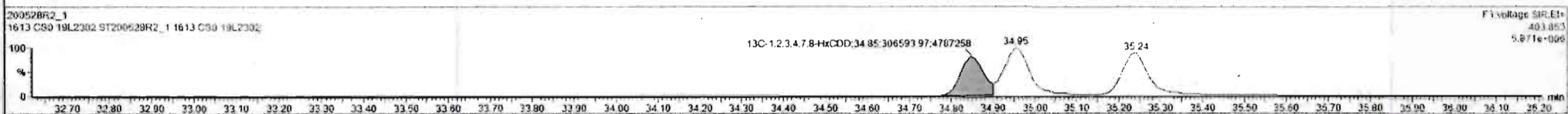
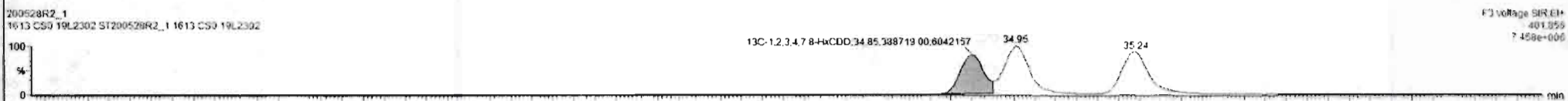
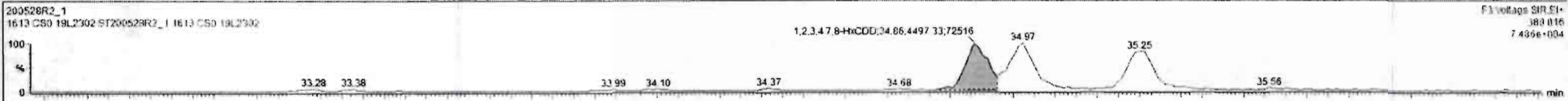
200528R2_1



200528R2_1



#	Name	Resp	RA	Qty	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.78e3	0.56	NO	0.8583	1.000	26.54	1.000	0.213	35.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0428	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8539	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.23e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	39.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0369	1.09
10	1,2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8562	1.000	34.11	1.001	1.12	89.2	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8787	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.30	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



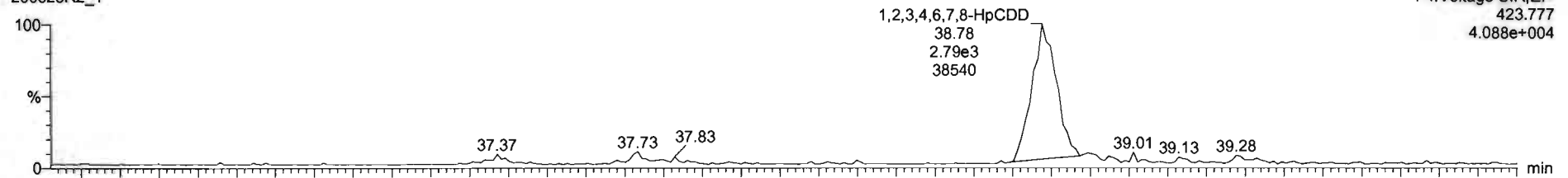
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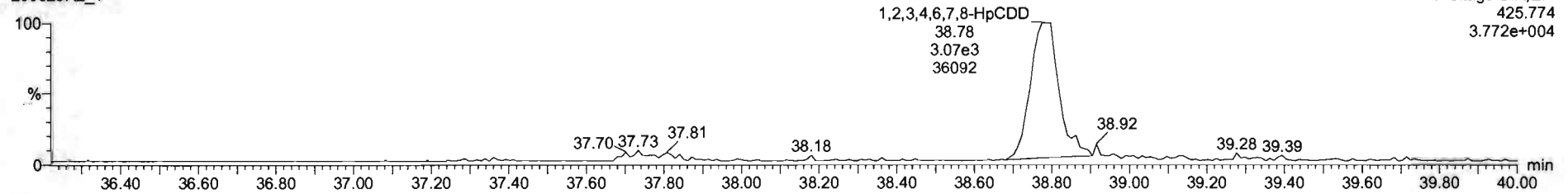
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1,2,3,4,6,7,8-HpCDD

200528R2_1

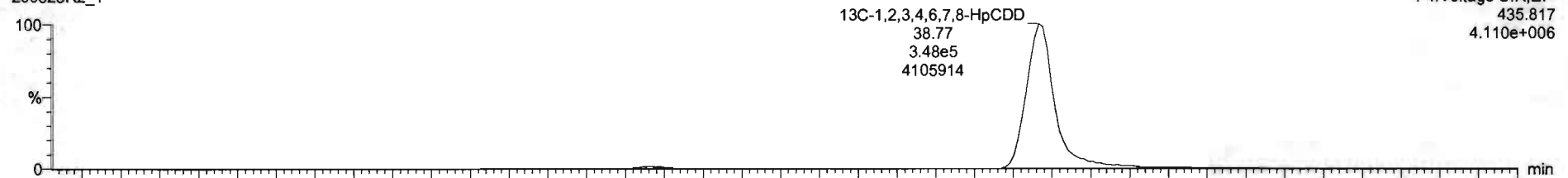


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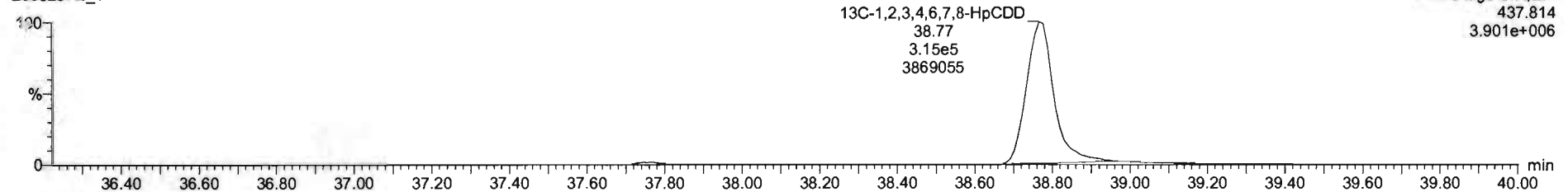


13C-1,2,3,4,6,7,8-HpCDD

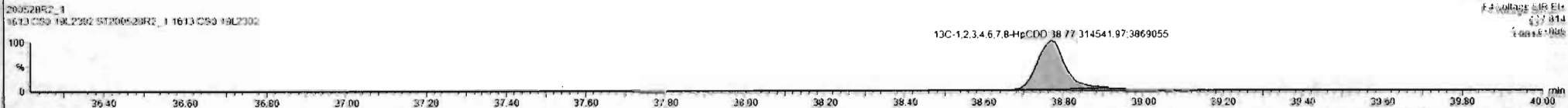
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200528R2_1



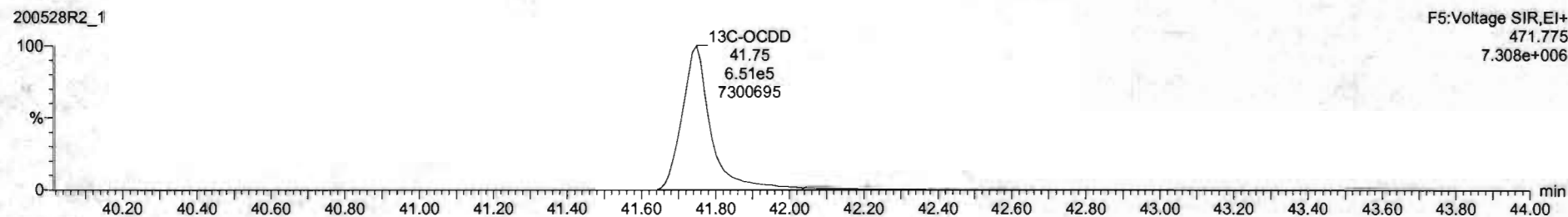
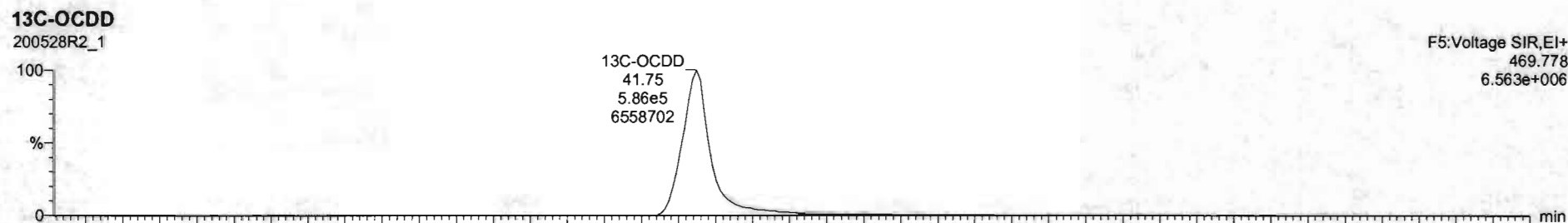
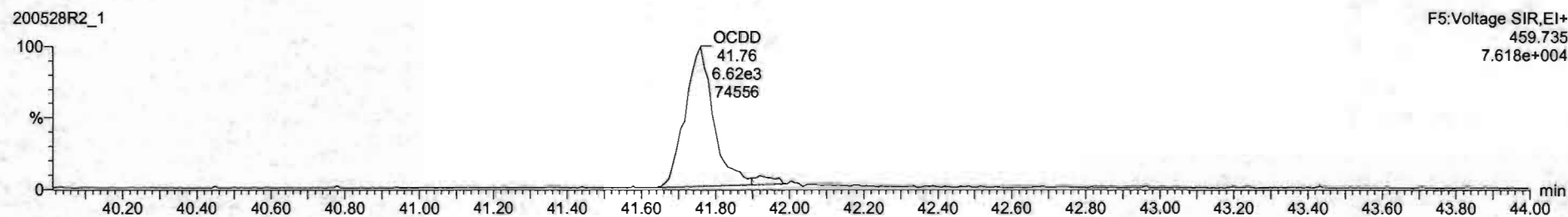
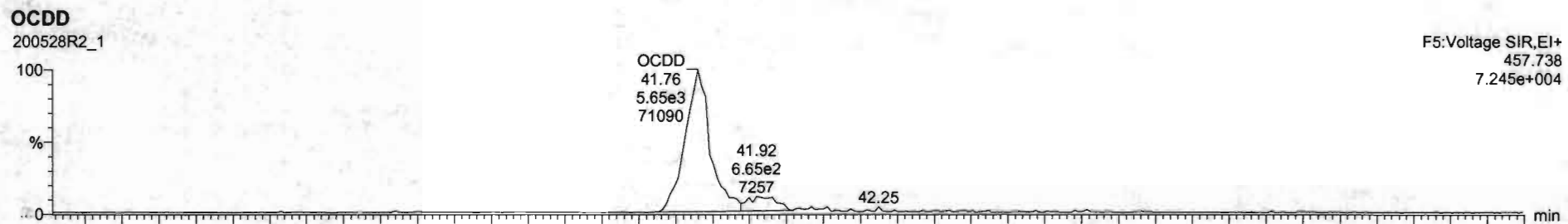
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1	2,3,7,8-TCDD	2.70e3	0.58	NO	0.8583	1.000	26.54	1.000	0.212	88.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0282	1.12
3	1,2,3,4,7,8-HxCDD	5.02e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	69.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	6.14e3	1.30	NO	0.8065	1.000	35.25	1.000	1.10	86.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8839	1.000	36.70	1.000	1.09	87.2	0.0506	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.70	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.323	89.1	0.0142	0.222
9	1,2,3,7,8-PeCDF	1.46e4	1.51	NO	0.8925	1.000	30.20	1.000	1.09	67.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8052	1.000	34.11	1.001	1.12	89.2	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HxCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e8	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8450	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



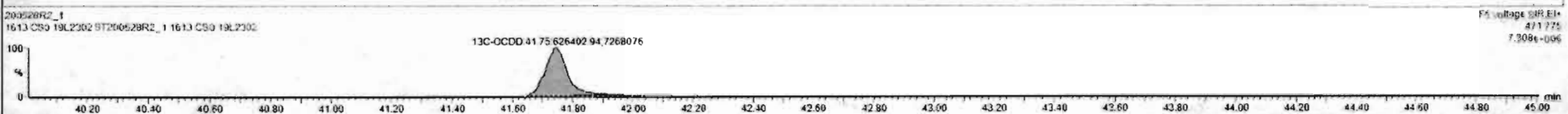
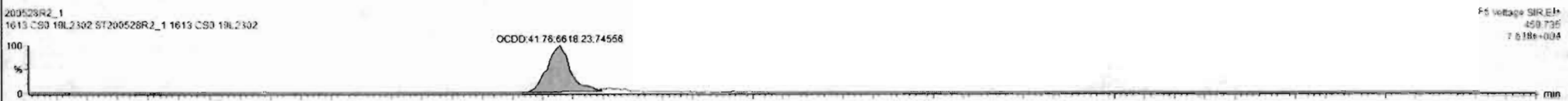
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



#	Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8863	1.000	26.54	1.000	0.212	85.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	34.06	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9138	1.000	41.78	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.03	86.2	0.0369	1.03
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8552	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	28.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	8.95e5	1.27	NO	0.7750	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



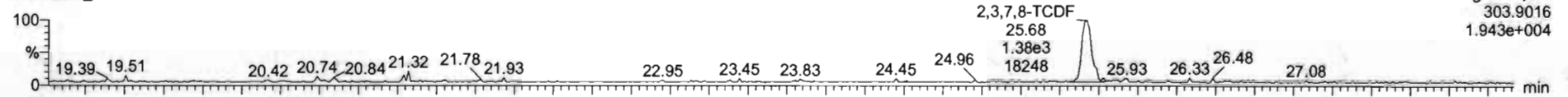
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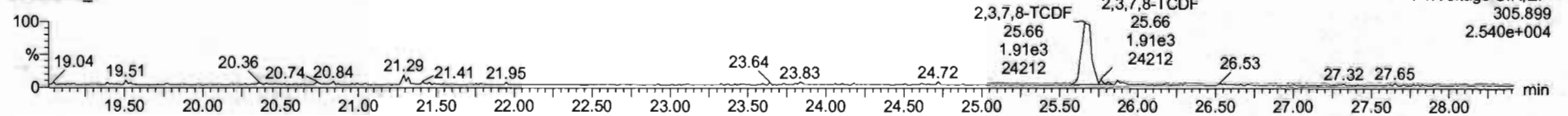
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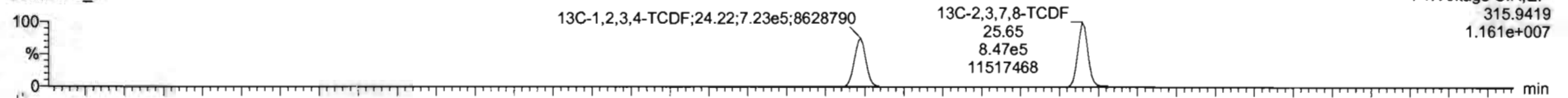


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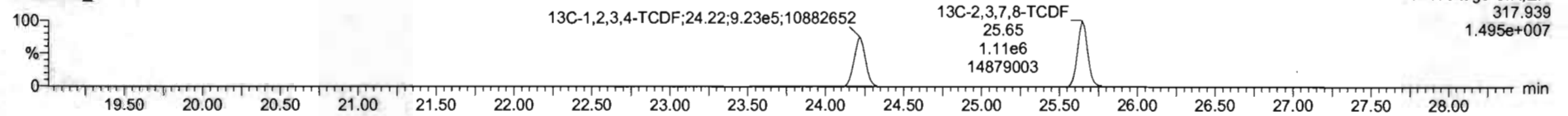


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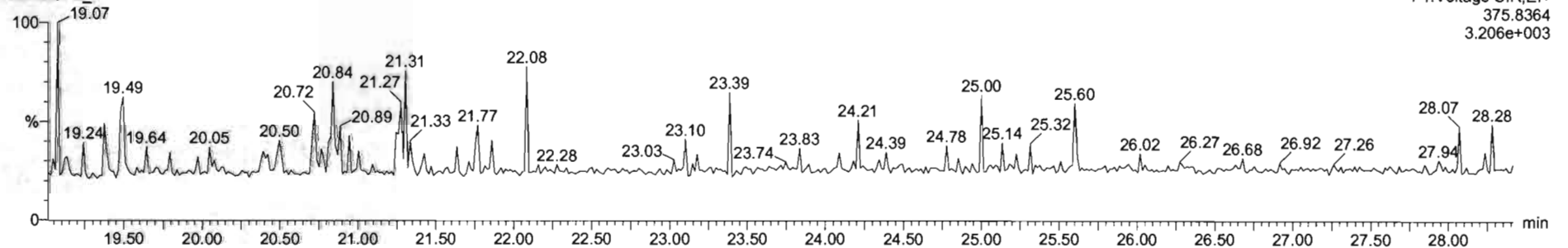


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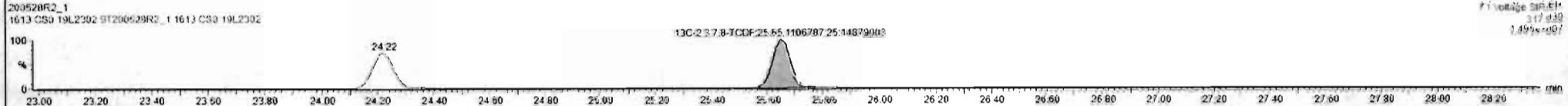
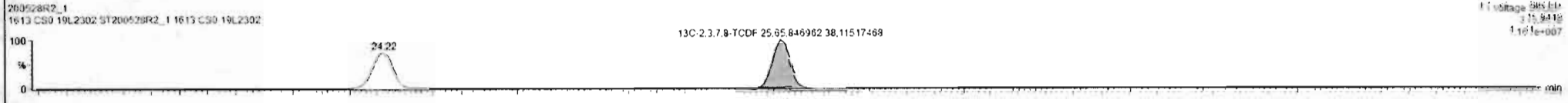
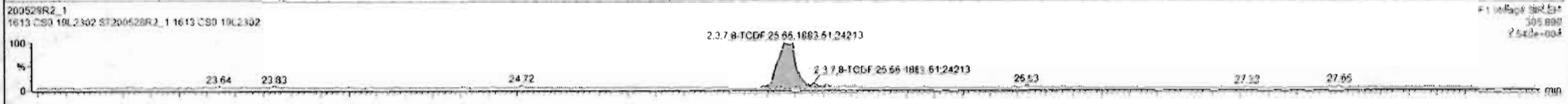
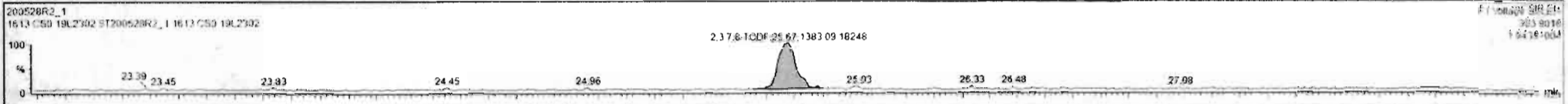


DPE1

200528R2_1



#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8883	1.000	26.54	1.000	0.212	95.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	21.50	1.000	1.12	90.6	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e2	1.27	NO	1.0334	1.000	34.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.13	89.7	0.0465	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0454	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0140	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	20.20	1.006	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.95e3	1.25	NO	0.8845	1.000	33.99	1.001	1.03	86.2	0.0369	1.03
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8862	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0624	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.96	NO	1.0126	1.000	39.33	1.001	1.02	61.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.23	92.4	0.0409	2.23
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1583	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	168	168	0.243	



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200528R2_1 CAP NUM

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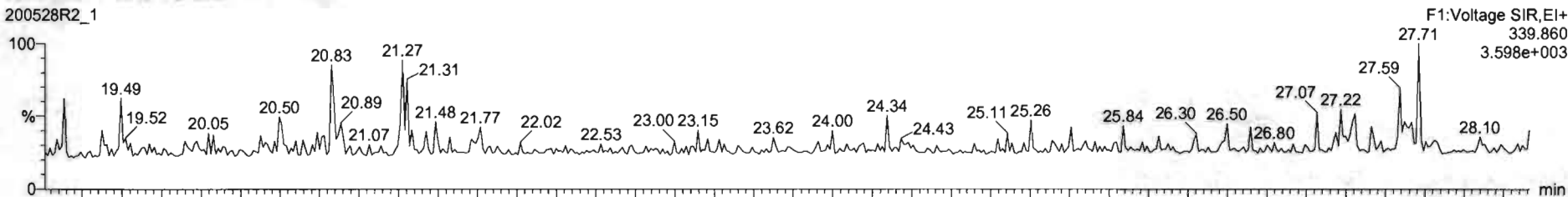
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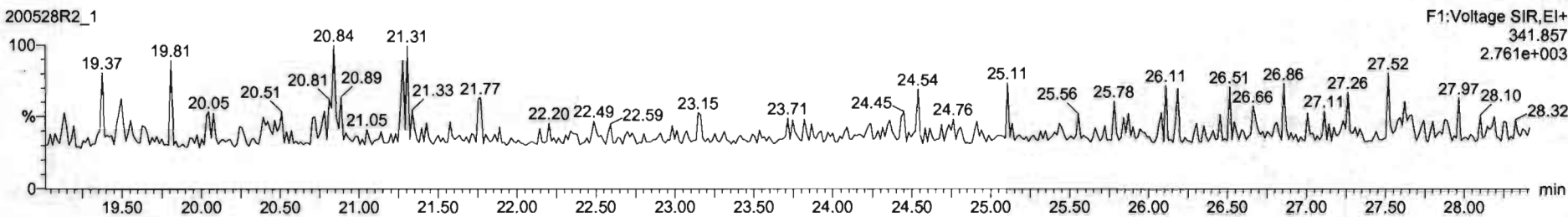
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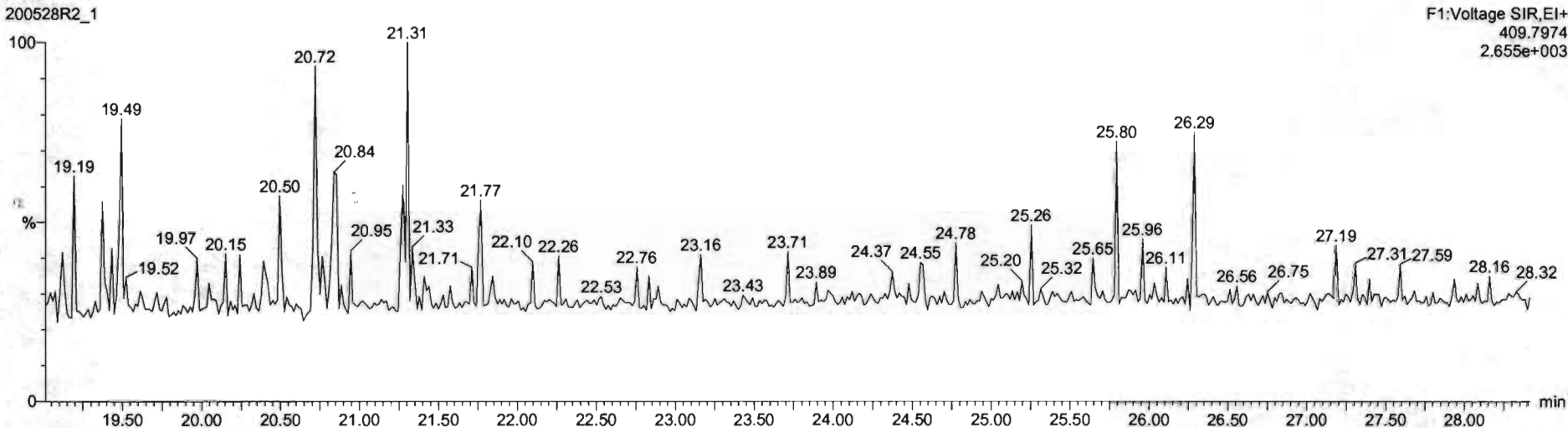


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DPE6

200528R2_1



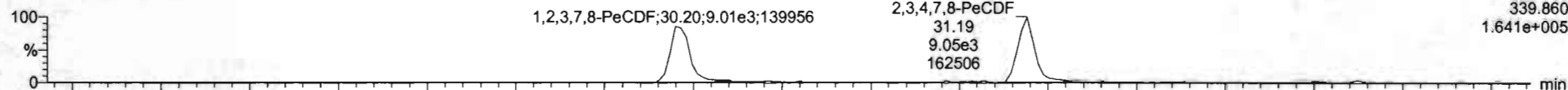
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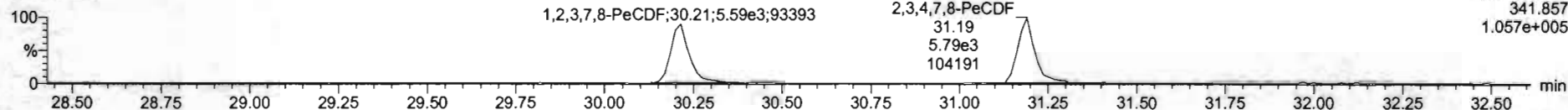
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1,2,3,7,8-PeCDF

200528R2_1

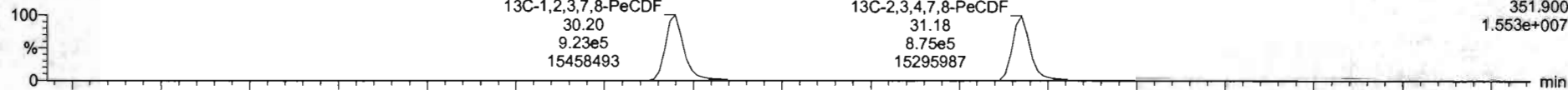


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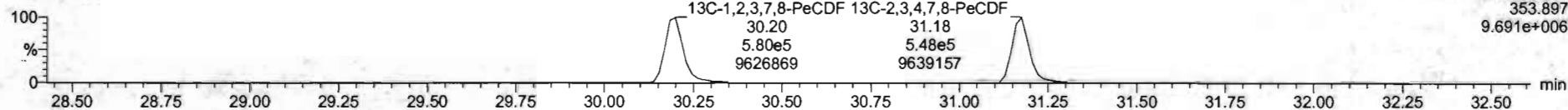


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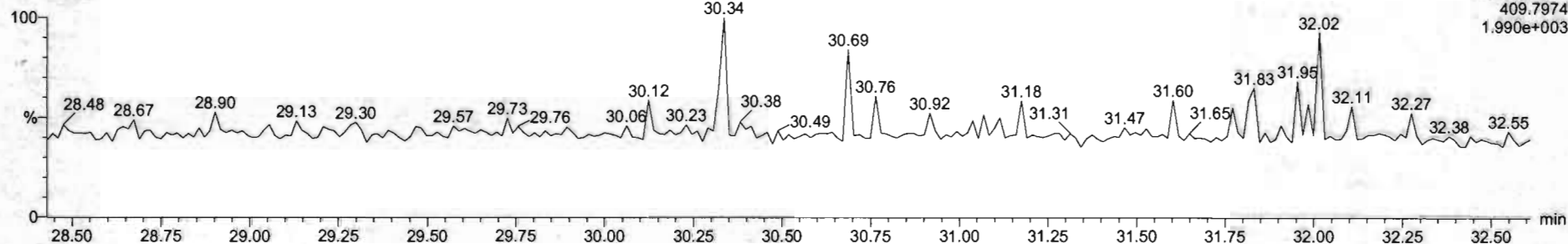


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DPE2

200528R2_1



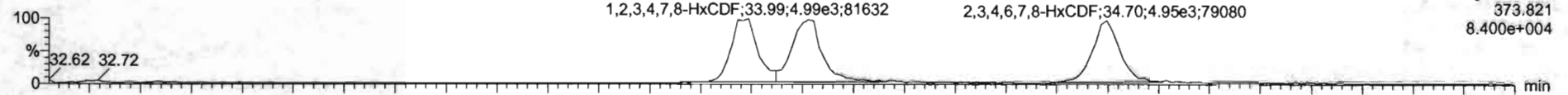
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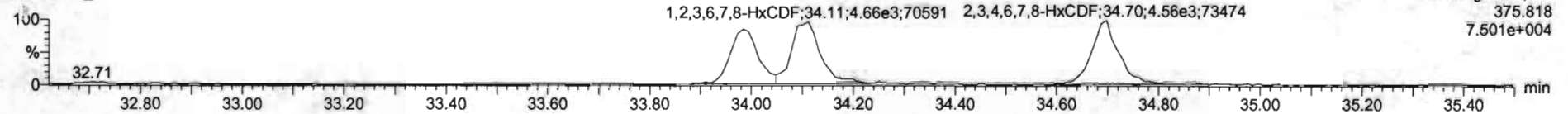
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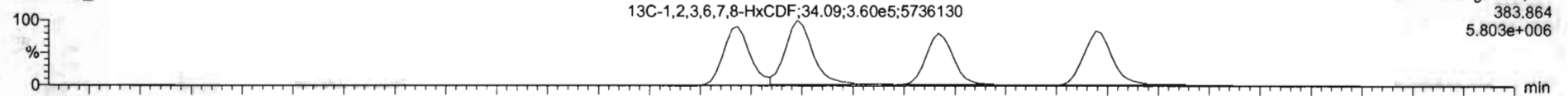


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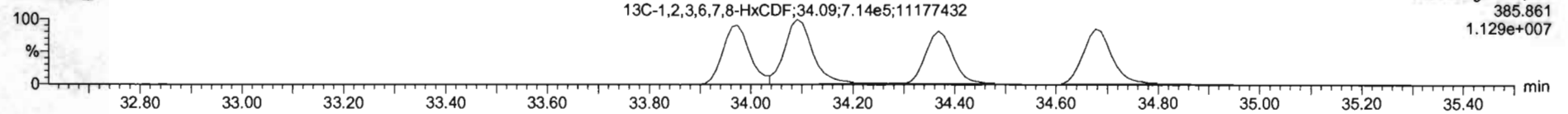


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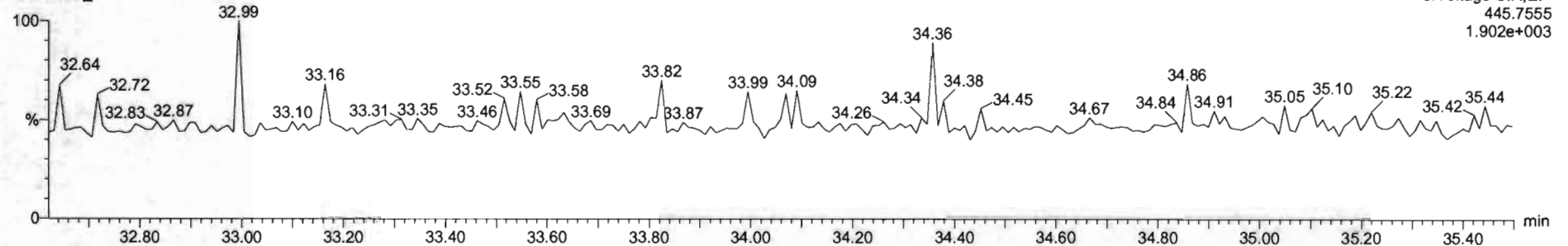


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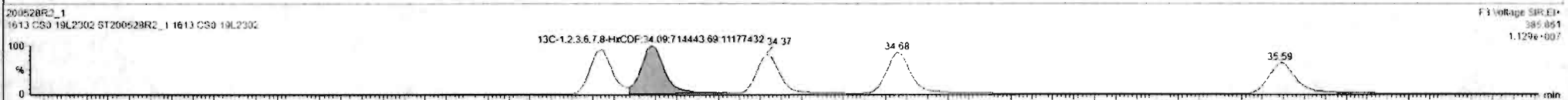
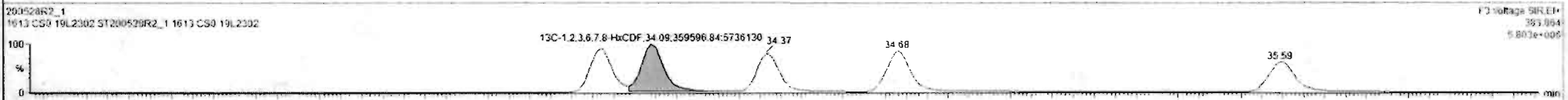
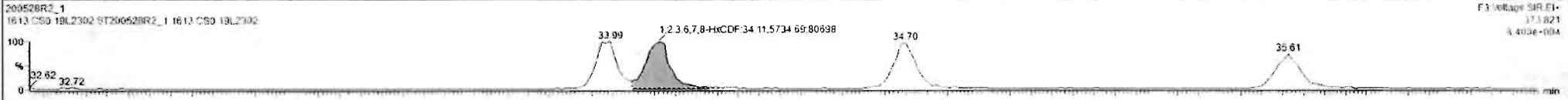


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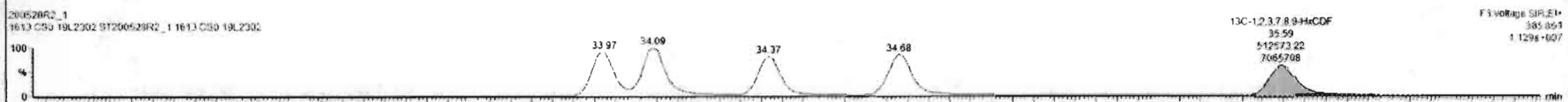
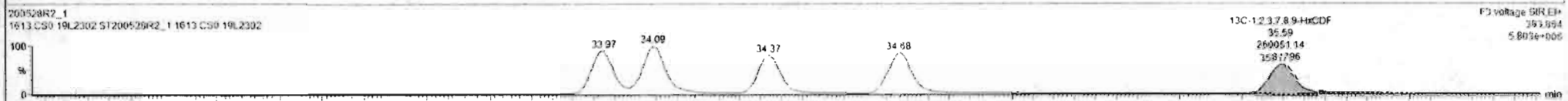
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Name	Resp	RA	inj	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.58	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6051	1.000	31.50	1.000	1.12	90.0	0.0292	1.12
3 1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0324	1.000	24.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	5.14e3	1.20	NO	0.8265	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	38.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9126	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	26.67	1.001	0.223	89.1	0.0147	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.81	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0709	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.56e3	1.25	NO	0.8845	1.000	33.99	1.001	1.05	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8082	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.62	81.8	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e6	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21 13C-1,2,3,6,7,8-HxCDD	9.27e6	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.76e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	95.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.55	1.000	1.12	96.0	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	24.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	24.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8265	1.000	25.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.16e3	0.99	NO	0.8630	1.000	26.72	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.225	89.1	0.0142	0.225
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8325	1.000	20.20	1.000	1.09	87.1	0.0265	1.09
10	1,2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8,9-HxCDF	6.98e3	1.25	NO	0.8545	1.000	23.95	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8252	1.000	24.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	24.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	25.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	27.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	20.33	1.001	1.02	81.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0832	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	24.95	1.017	108	108	0.243	



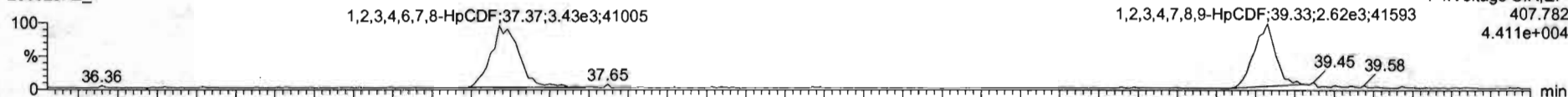
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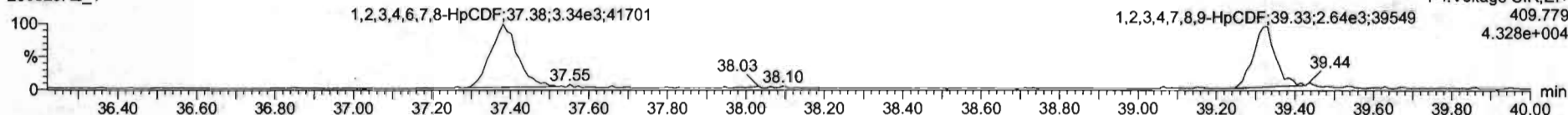
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4.411e+004

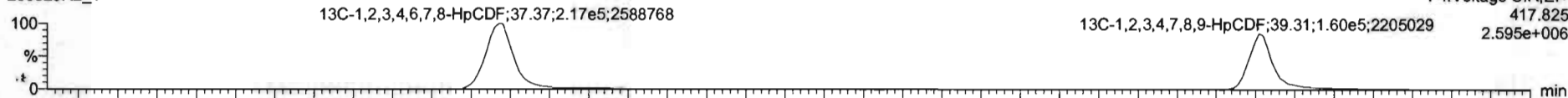
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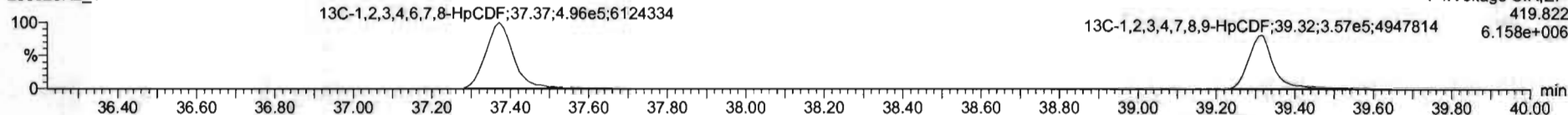
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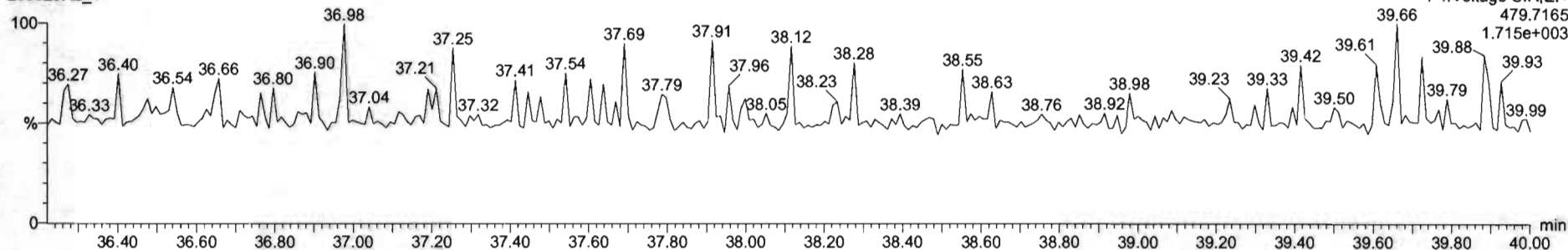
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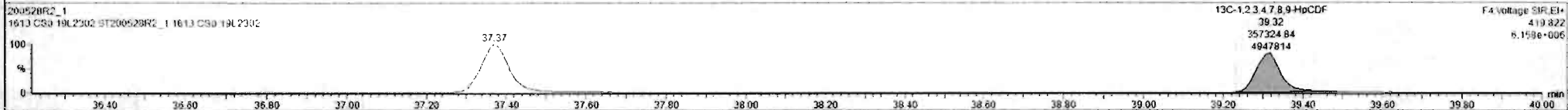
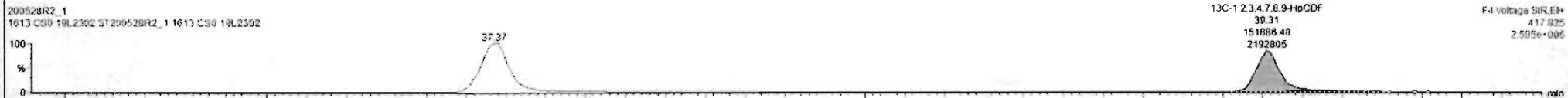
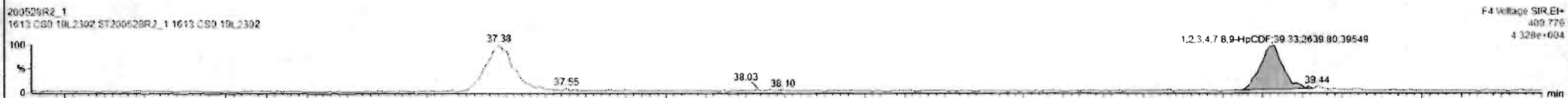
CPE4

200528R2_1



F4: Voltage SIR, EI+
479.7165
1.715e+003

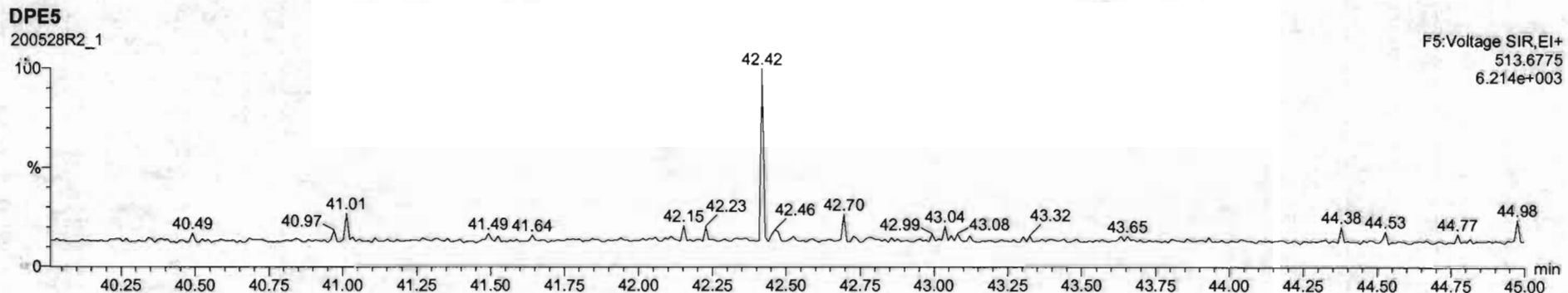
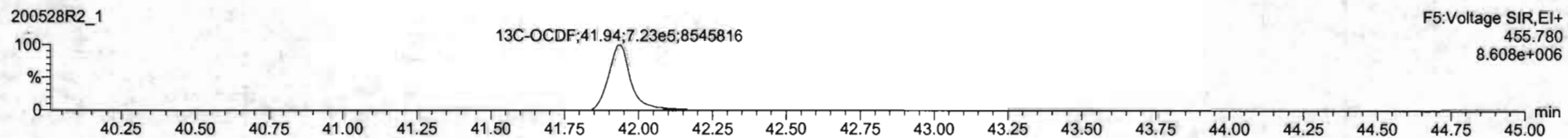
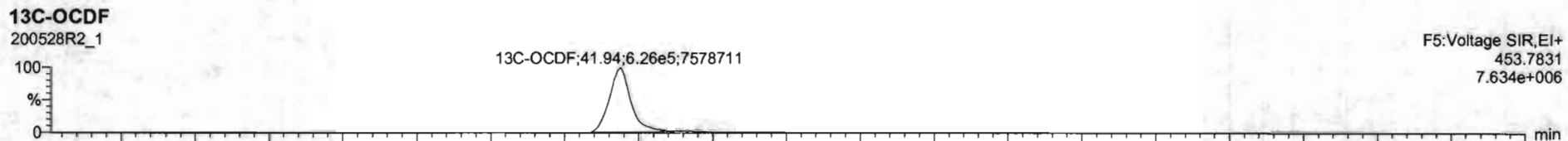
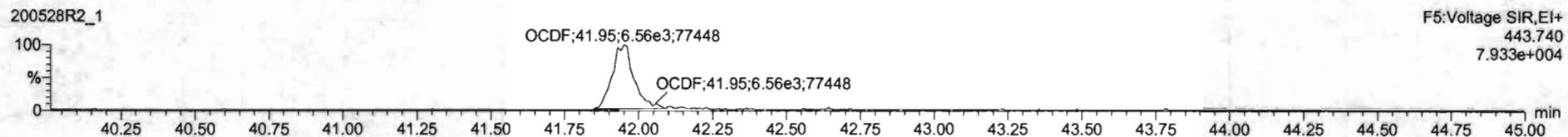
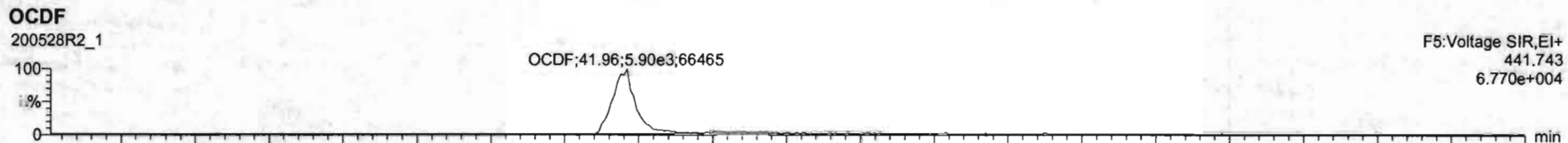
Name	Resp	RA	nBy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.79e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	8.02e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDF	8.14e3	1.20	NO	0.8269	1.000	35.25	1.000	1.10	88.1	0.0404	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.0	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	89.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,2,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8852	1.000	34.11	1.001	1.12	89.0	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8797	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	88.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.35	1.001	1.02	81.6	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	92.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.218	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



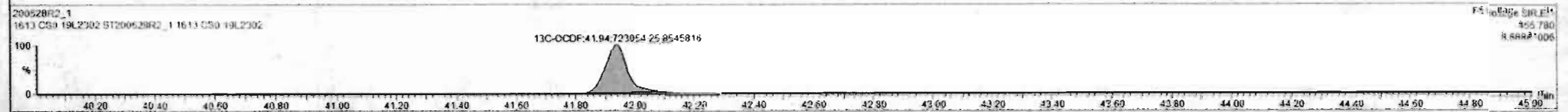
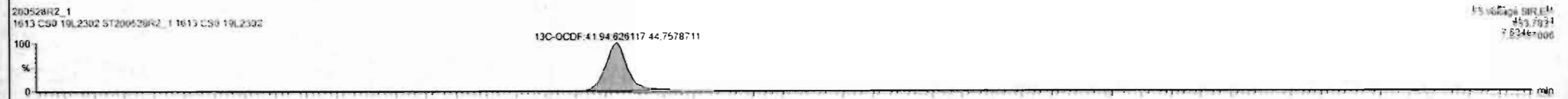
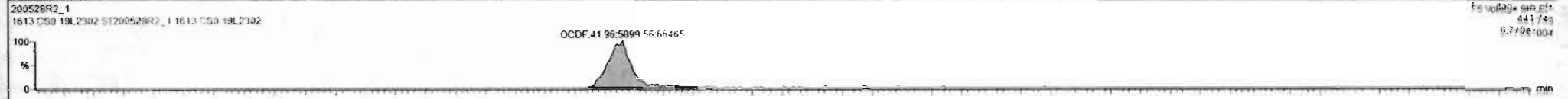
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



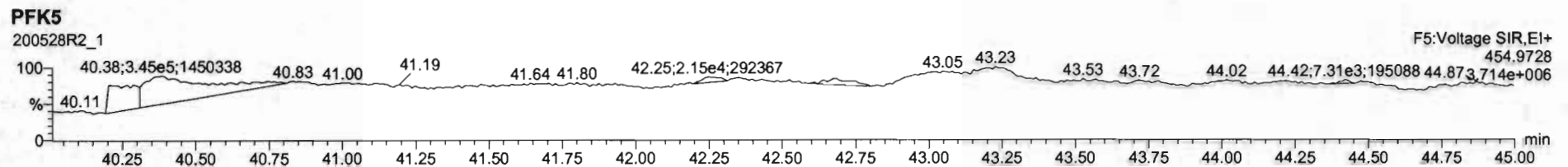
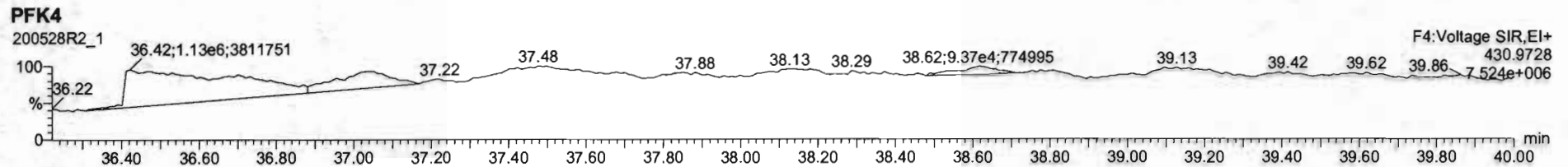
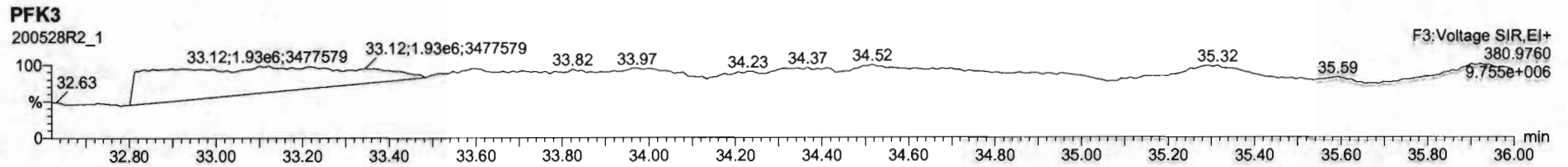
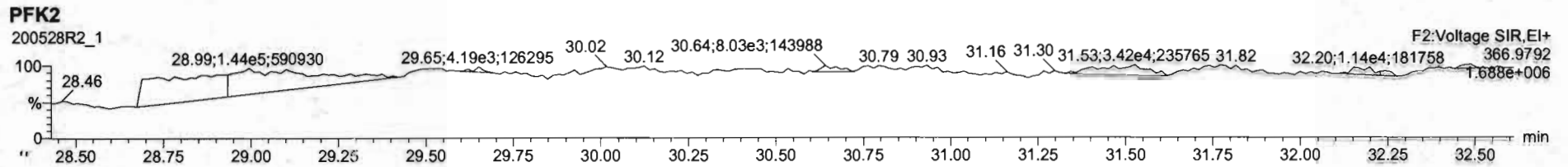
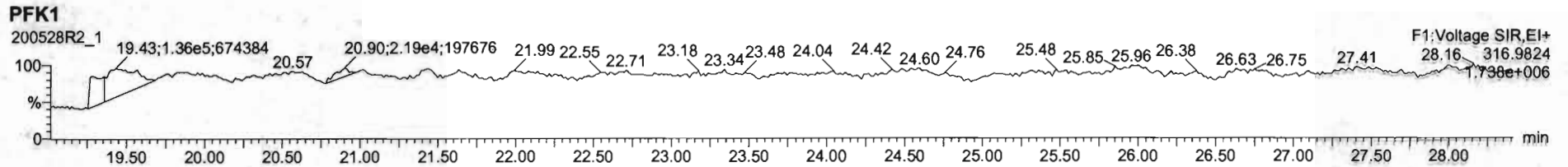
#	Name	Resp	RA	aly	RRF	wtWt	RT	RRT	Conc	%Rec	QL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.98	NO	0.8803	1.000	26.54	1.000	0.212	85.7	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9041	1.000	31.60	1.000	1.12	90.0	0.0202	1.12
3	1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	89.4	0.042E	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.9523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.9205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.056E	1.09
7	OCDD	1.23e4	0.88	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.75	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8892	1.000	24.11	1.001	1.12	89.7	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.95	NO	1.0126	1.000	39.33	1.001	1.02	81.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8685	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.218	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



Dataset: Untitled

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Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



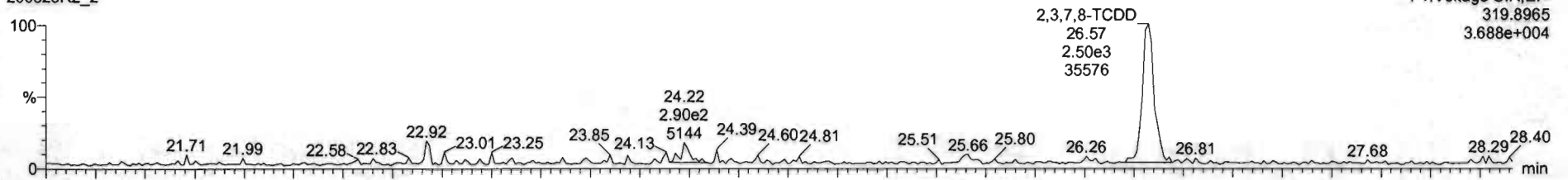
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
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Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

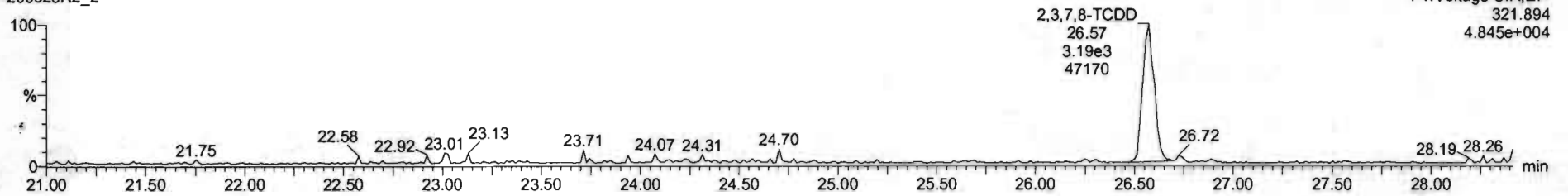
2,3,7,8-TCDD

200528R2_2



F1:Voltage SIR,EI+
319.8965
3.688e+004

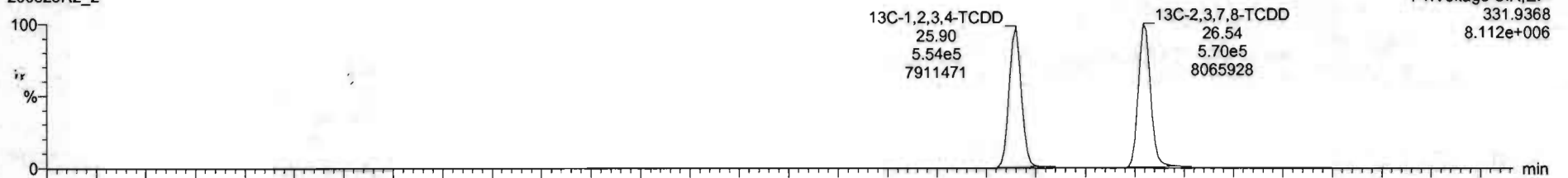
200528R2_2



F1:Voltage SIR,EI+
321.894
4.845e+004

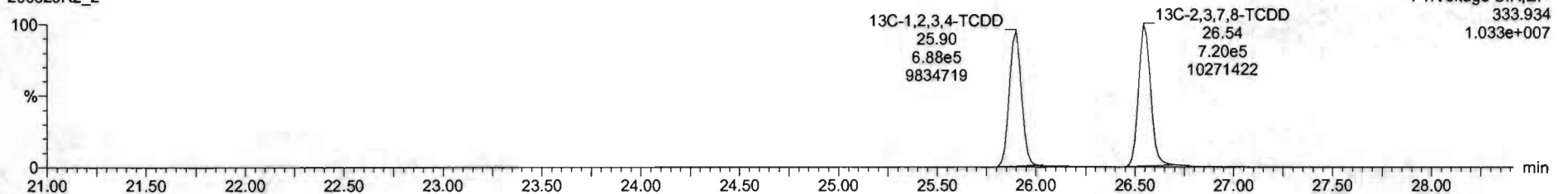
13C-2,3,7,8-TCDD

200528R2_2



F1:Voltage SIR,EI+
331.9368
8.112e+006

200528R2_2



F1:Voltage SIR,EI+
333.934
1.033e+007

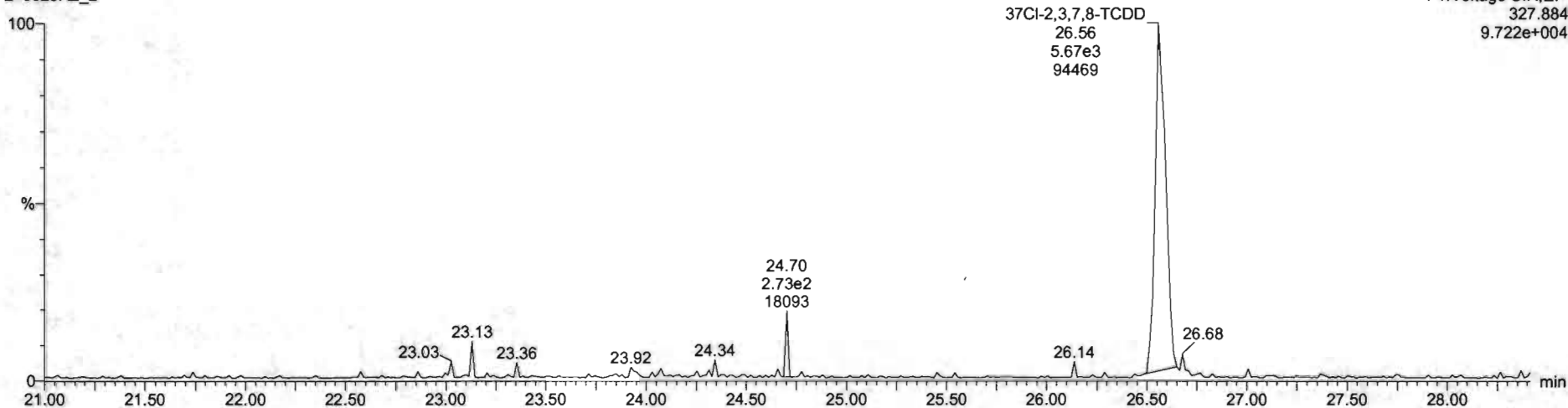
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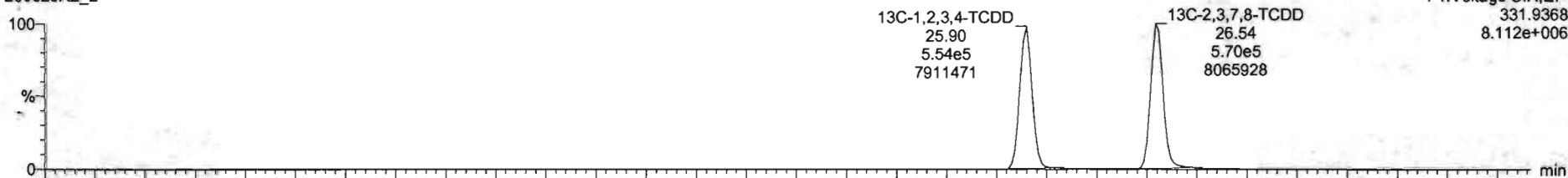
37Cl-2,3,7,8-TCDD

200528R2_2

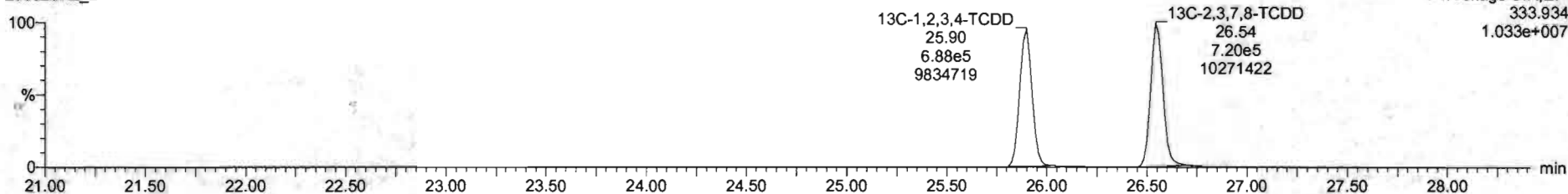


13C-1,2,3,4-TCDD

200528R2_2



200528R2_2



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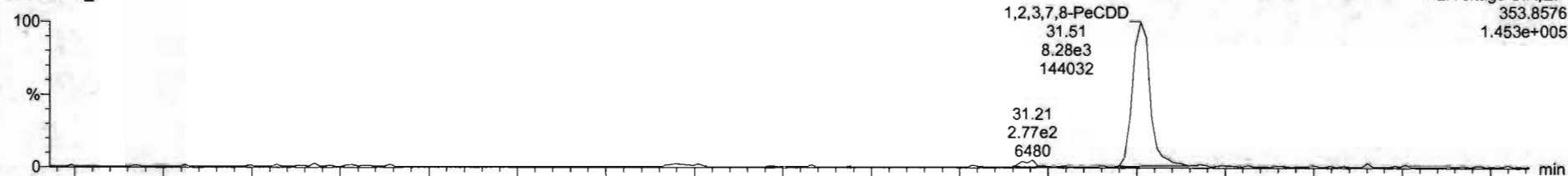
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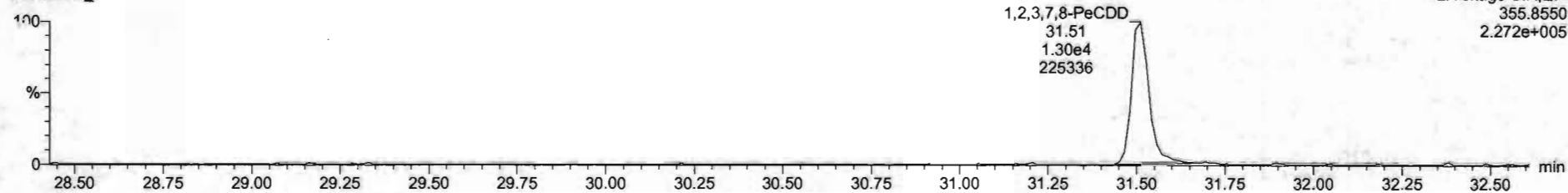
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1,2,3,7,8-PeCDD

200528R2_2

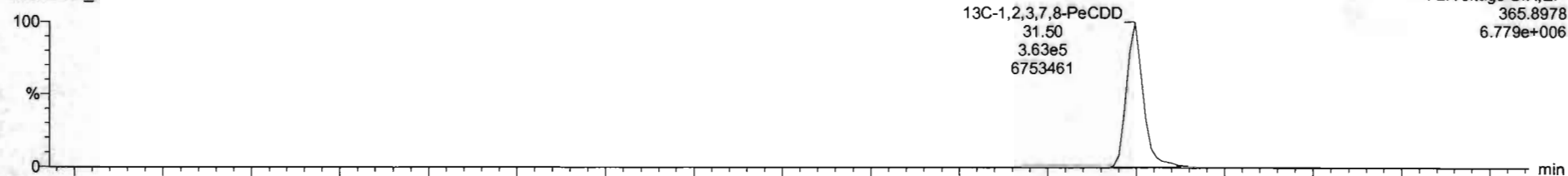


200528R2_2

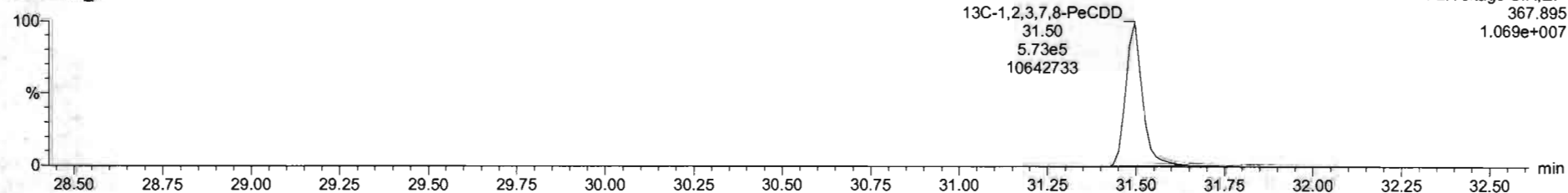


13C-1,2,3,7,8-PeCDD

200528R2_2



200528R2_2



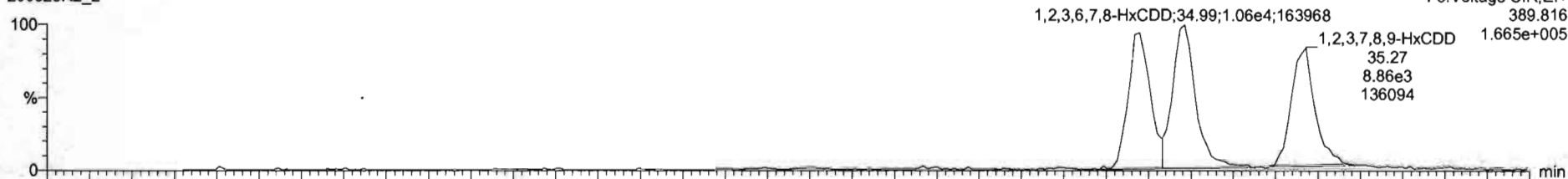
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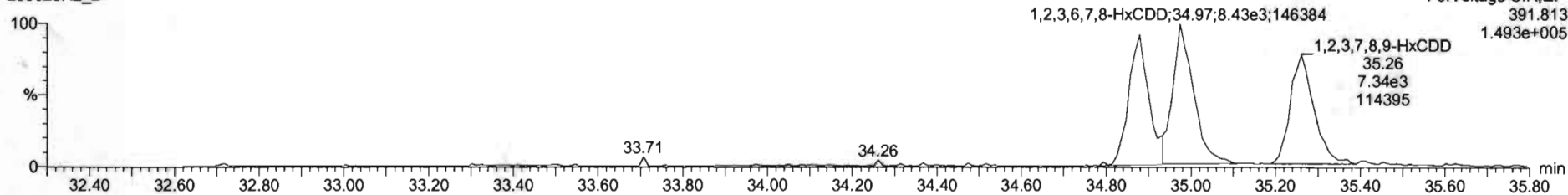
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1,2,3,4,7,8-HxCDD

200528R2_2



200528R2_2

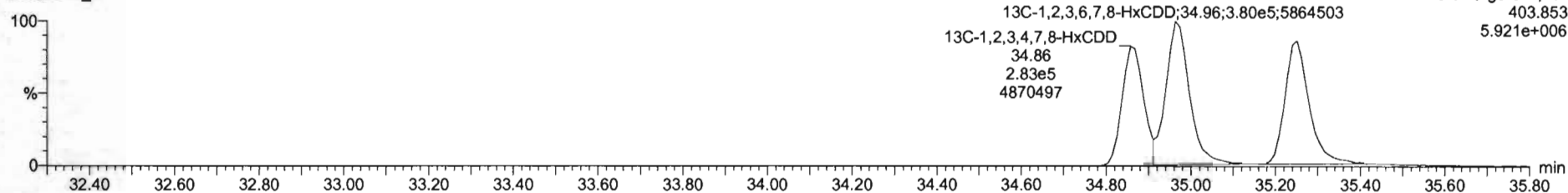


13C-1,2,3,4,7,8-HxCDD

200528R2_2



200528R2_2



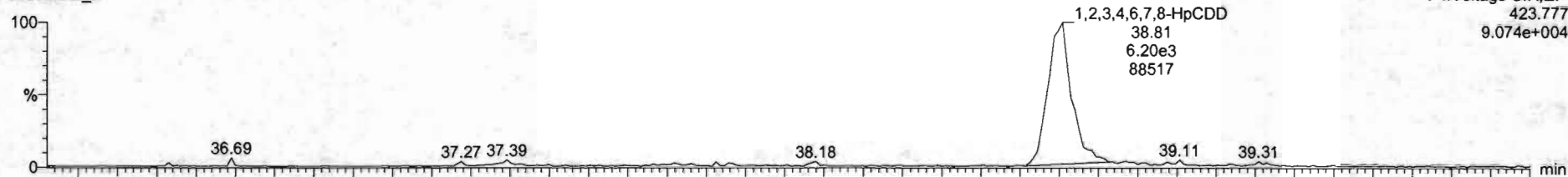
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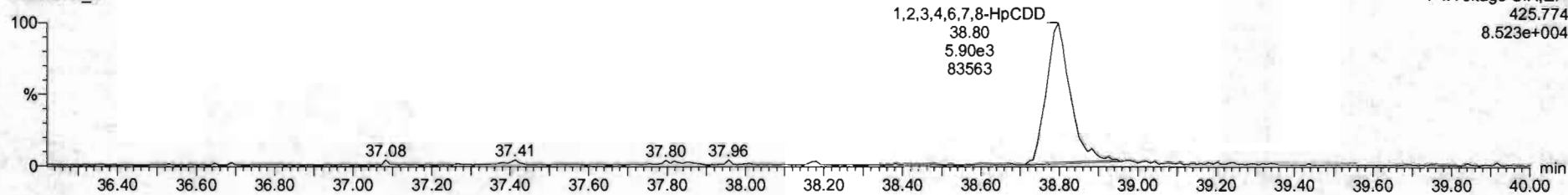
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1,2,3,4,6,7,8-HpCDD

200528R2_2

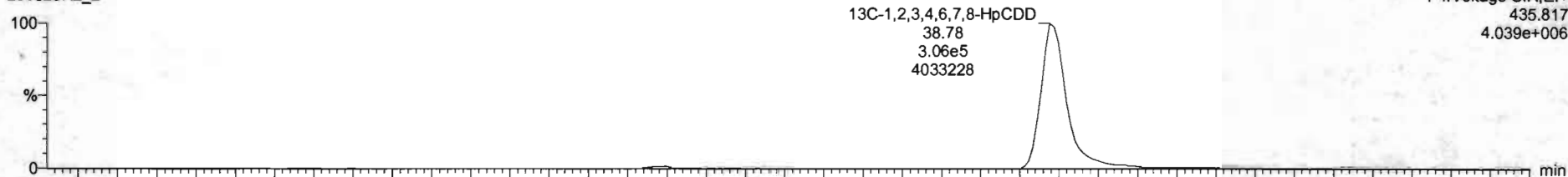


200528R2_2

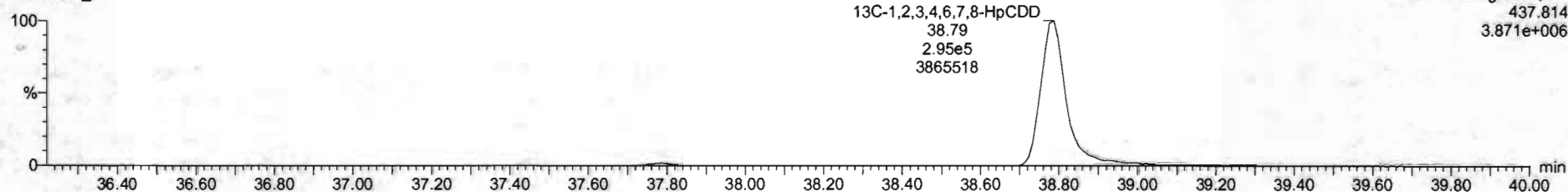


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200528R2_2



200528R2_2

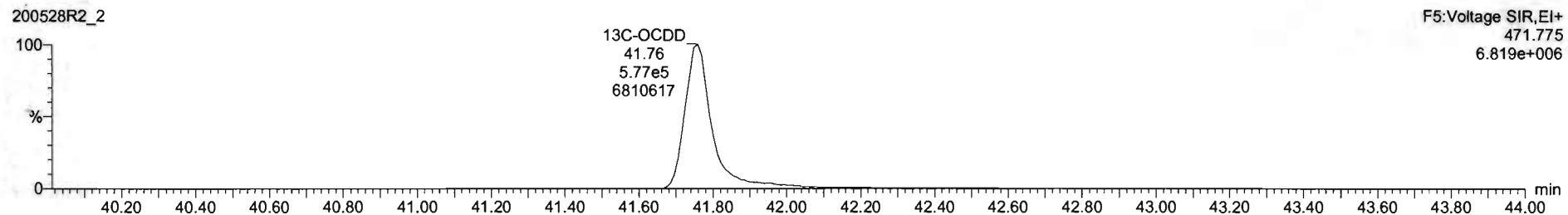
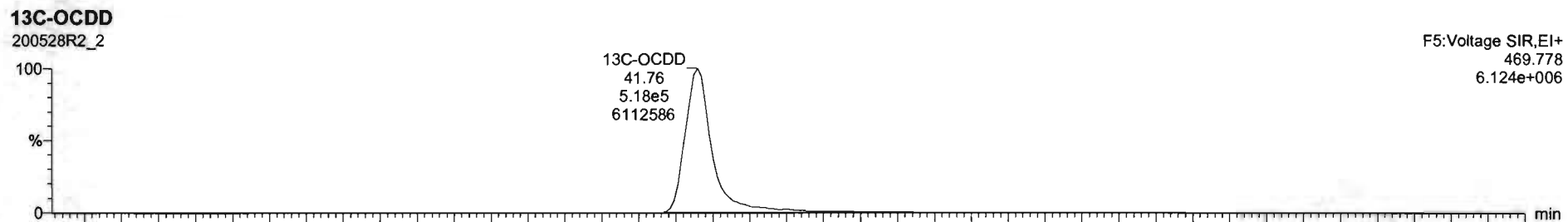
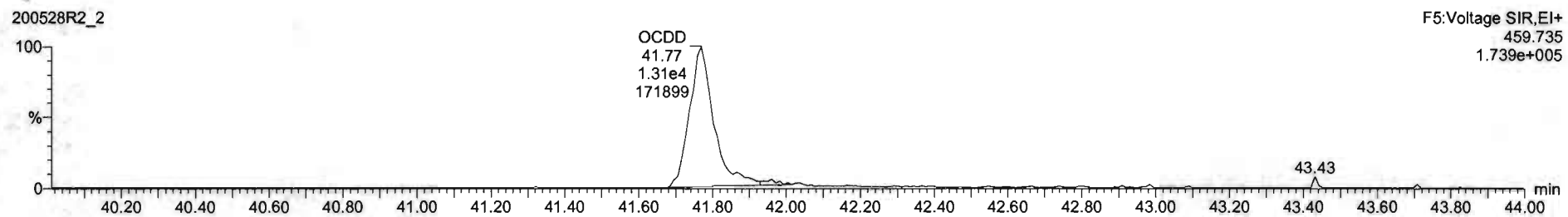
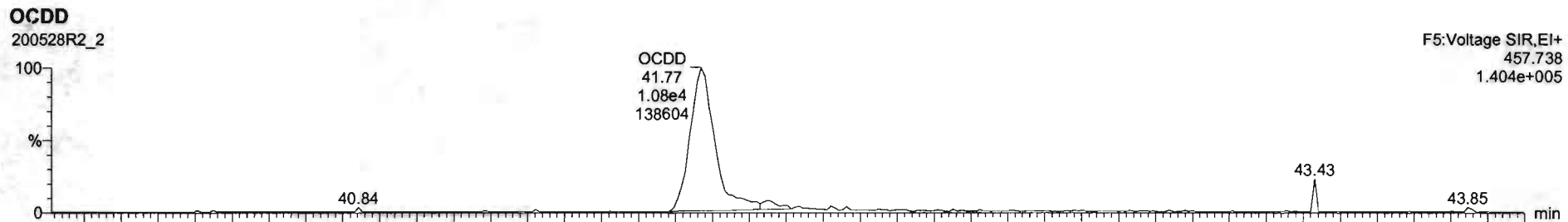


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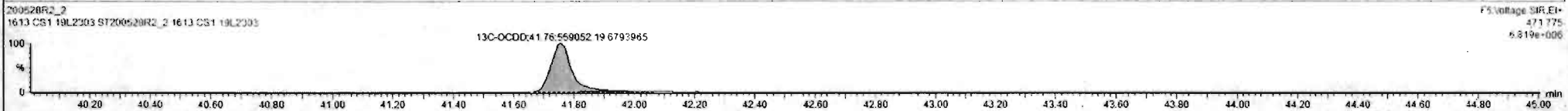
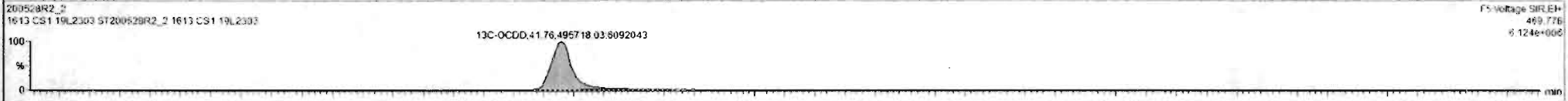
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



Name	Resp	RA	nJY	RRF	wIvol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0324	1.000	34.86	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.50e4	1.25	NO	0.8923	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8865	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.61	1.001	2.33	93.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	98.4	0.149	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.483	97.7	0.0670	0.483
9 1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9241	1.000	34.71	1.001	2.38	95.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.32	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8065	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1563	1.000	26.54	1.025	89.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.83	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7790	1.000	34.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.81e5	1.27	NO	1.0187	1.000	34.95	1.017	87.7	87.7	0.140	

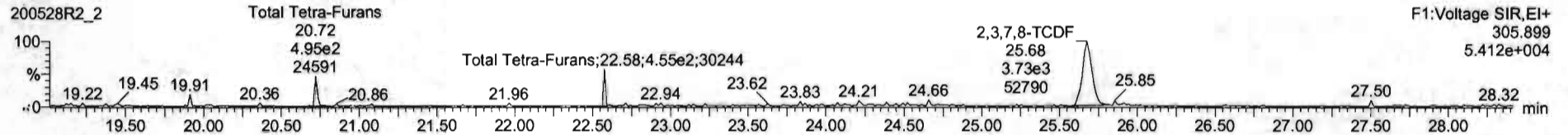
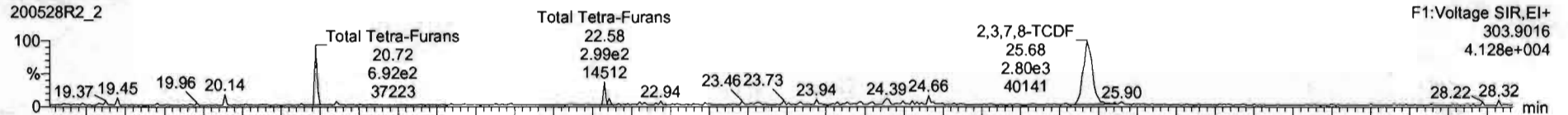


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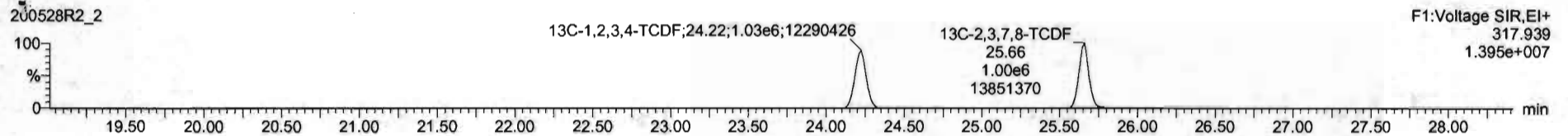
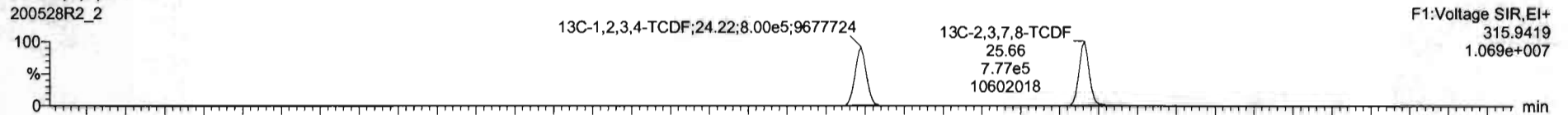
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

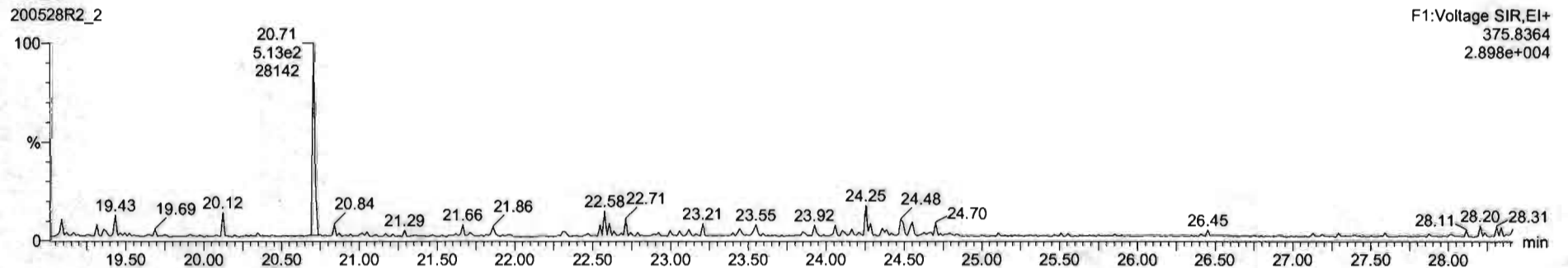
2,3,7,8-TCDF



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



DPE1



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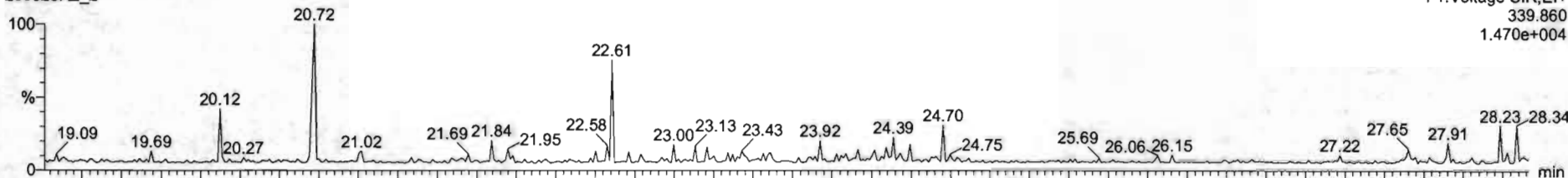
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Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans

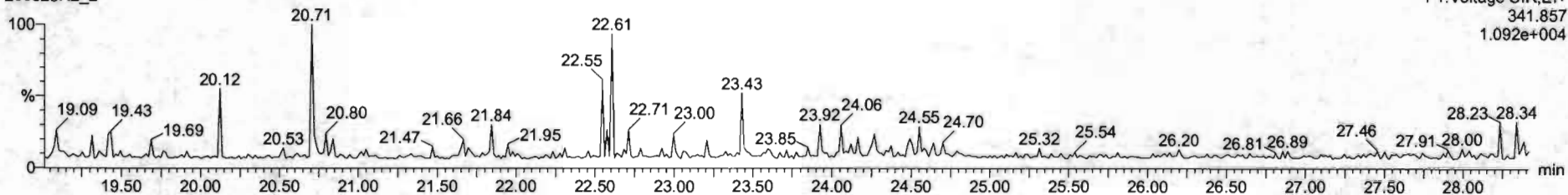
200528R2_2

F1:Voltage SIR,EI+
339.860
1.470e+004



200528R2_2

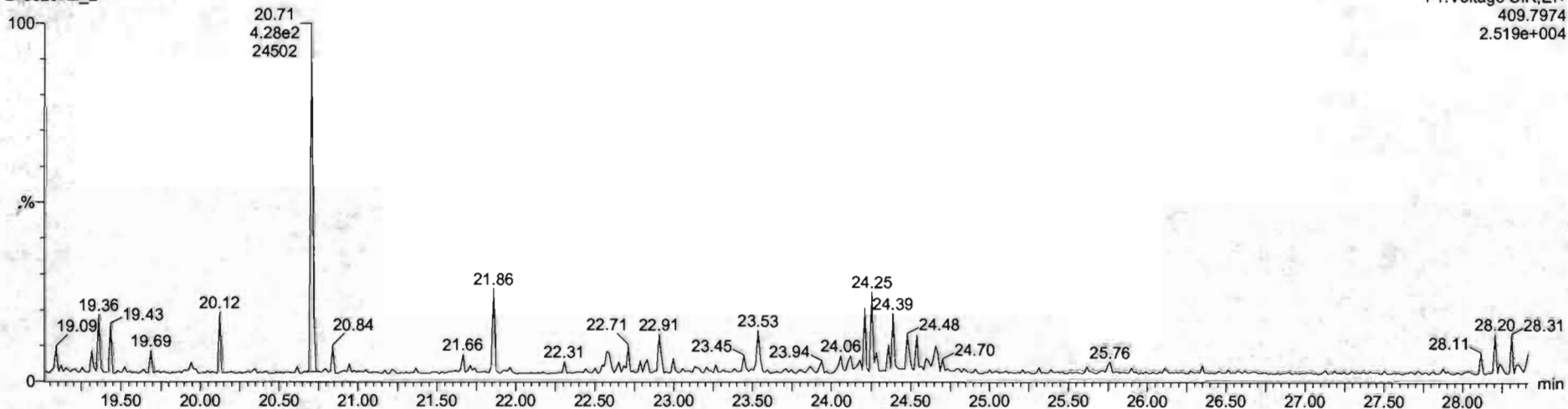
F1:Voltage SIR,EI+
341.857
1.092e+004



DPE6

200528R2_2

F1:Voltage SIR,EI+
409.7974
2.519e+004



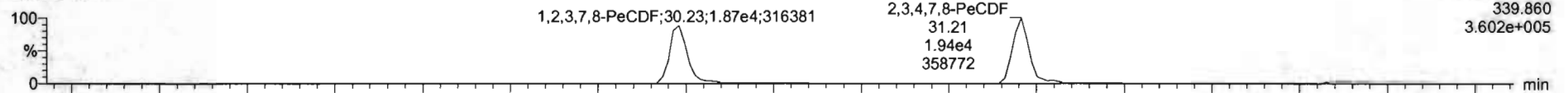
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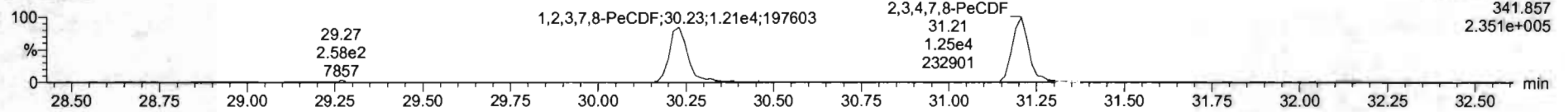
1,2,3,7,8-PeCDF

200528R2_2



F2:Voltage SIR,EI+
339.860
3.602e+005

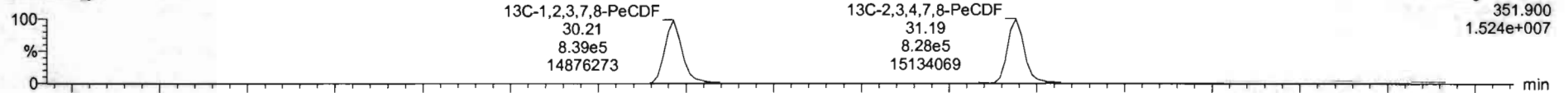
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F2:Voltage SIR,EI+
341.857
2.351e+005

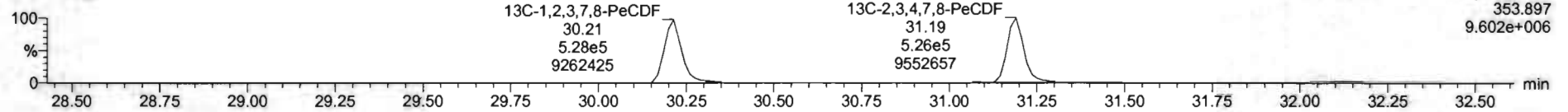
13C-1,2,3,7,8-PeCDF

200528R2_2



F2:Voltage SIR,EI+
351.900
1.524e+007

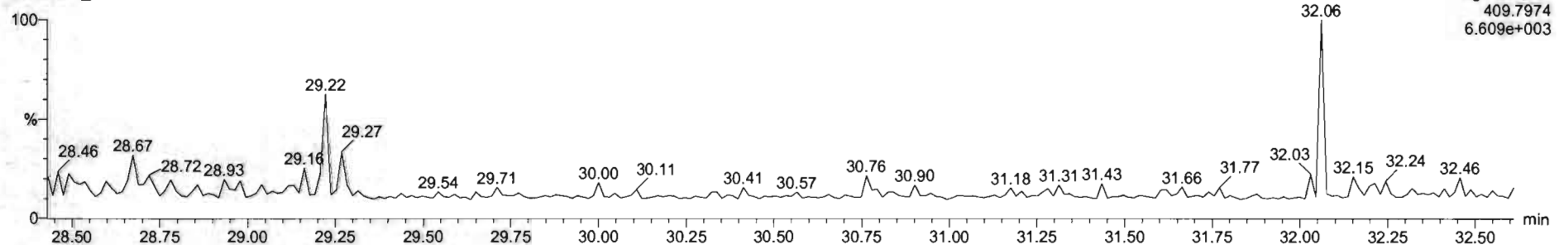
200528R2_2



F2:Voltage SIR,EI+
353.897
9.602e+006

DPE2

200528R2_2



F2:Voltage SIR,EI+
409.7974
6.609e+003

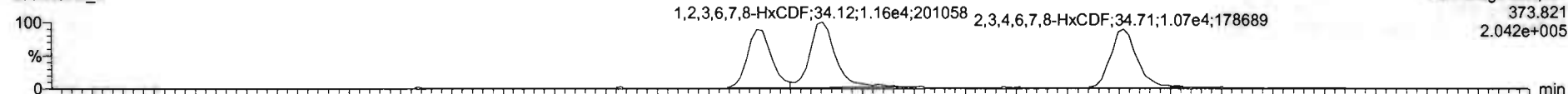
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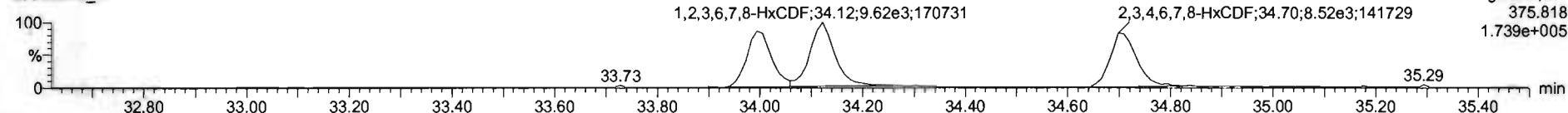
1,2,3,4,7,8-HxCDF

200528R2_2



F3: Voltage SIR, EI+
373.821
2.042e+005

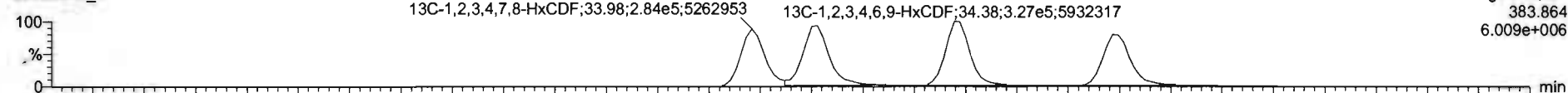
200528R2_2



F3: Voltage SIR, EI+
375.818
1.739e+005

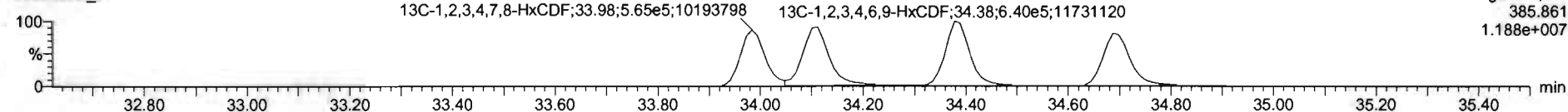
13C-1,2,3,4,7,8-HxCDF

200528R2_2



F3: Voltage SIR, EI+
383.864
6.009e+006

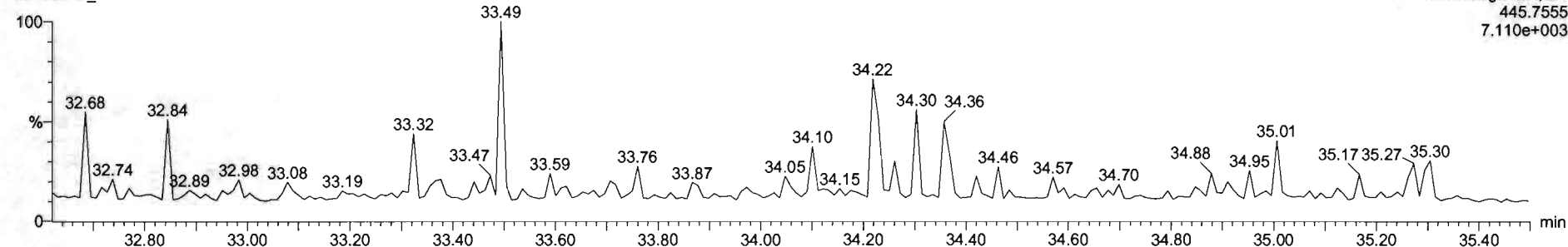
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F3: Voltage SIR, EI+
385.861
1.188e+007

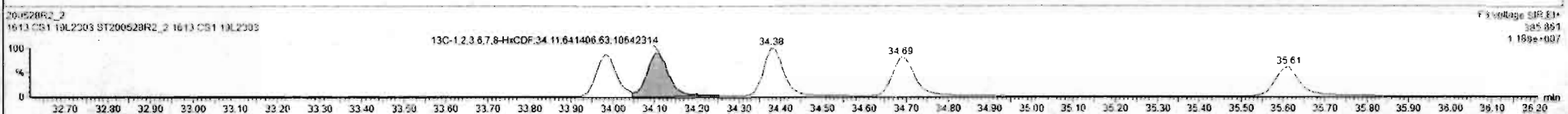
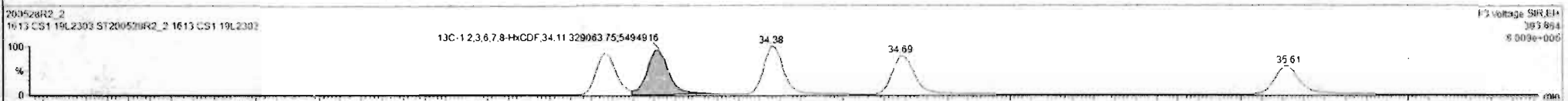
DPE3

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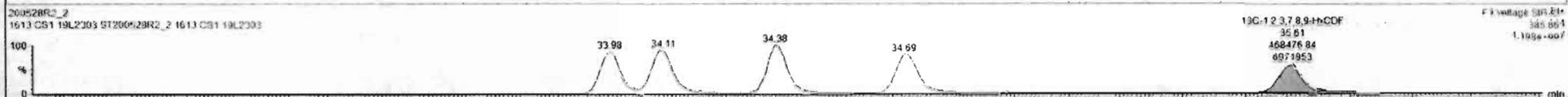
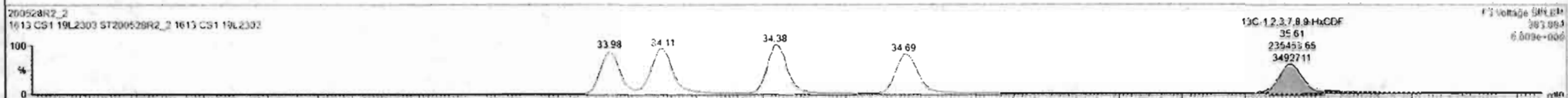


F3: Voltage SIR, EI+
445.7555
7.110e+003

#	Name	Resp	RA	nby	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.69e3	0.76	NO	0.8963	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9051	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0334	1.000	34.86	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8979	1.000	34.99	1.001	2.47	98.5	0.0747	3.47
5	1,2,3,7,9-HxCDD	1.62e4	1.21	NO	0.8269	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.51	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9340	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8545	1.000	33.99	1.000	2.41	96.3	0.0665	3.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.6552	1.000	34.12	1.000	2.50	100	0.0542	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.38	95.3	0.0702	2.38
14	1,2,3,7,8,9-HxCDF	1.46e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	1,2,3,7,8-TCDF	1.79e6	0.79	NO	1.1563	1.000	26.54	1.025	89.8	89.8	0.0928	
19	1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	68.7	68.7	0.113	
20	1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.99e3	0.76	NO	0.8843	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9051	1.000	31.51	1.000	2.50	99.3	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.05e4	1.27	NO	1.0334	1.000	34.85	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8973	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5	1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8565	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9126	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.05e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	0.15e4	1.55	NO	0.9346	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8882	1.000	34.12	1.000	2.50	100	0.0642	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.36	96.3	0.0702	2.36
14	1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8787	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8565	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1562	1.000	26.54	1.025	89.8	89.8	0.0528	
19	13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20	13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0157	1.000	34.96	1.017	87.7	87.7	0.140	



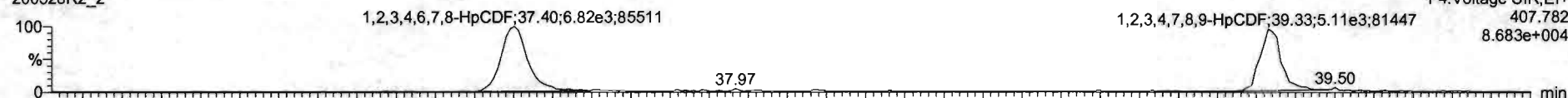
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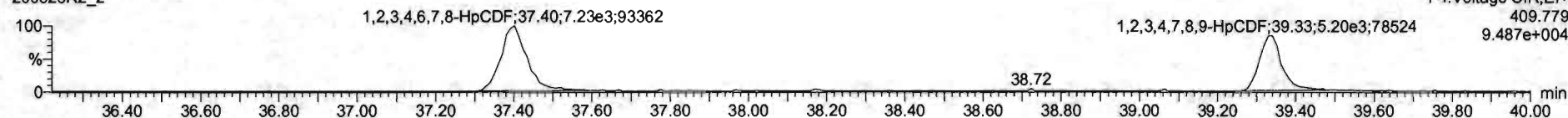
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1,2,3,4,6,7,8-HpCDF

200528R2_2

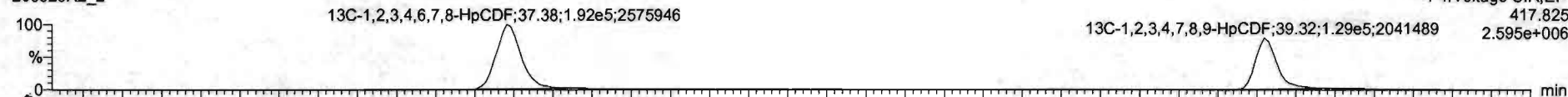


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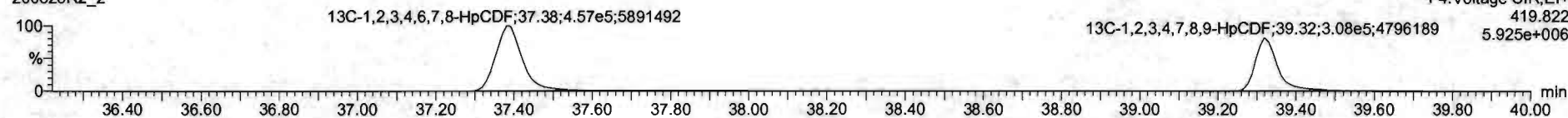


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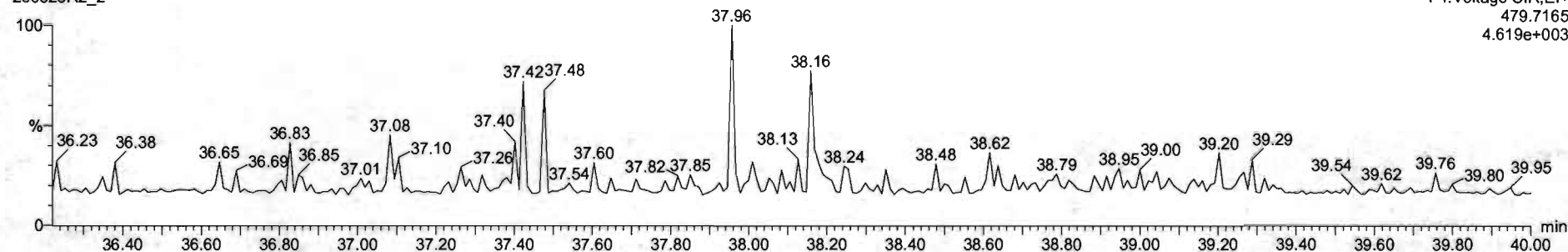


200528R2_2



DPE4

200528R2_2

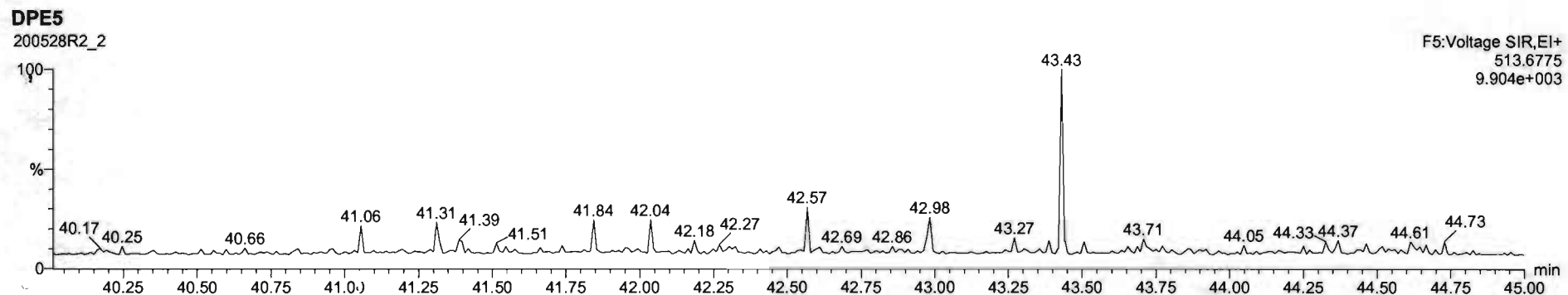
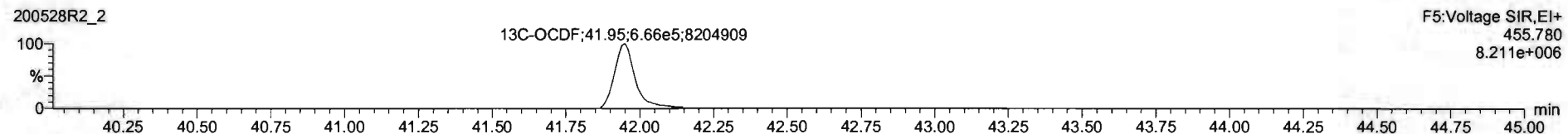
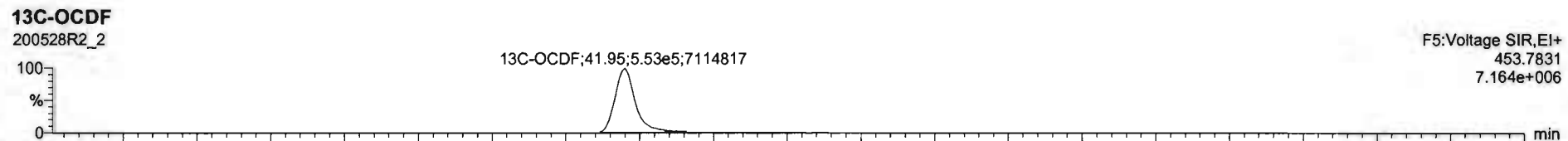
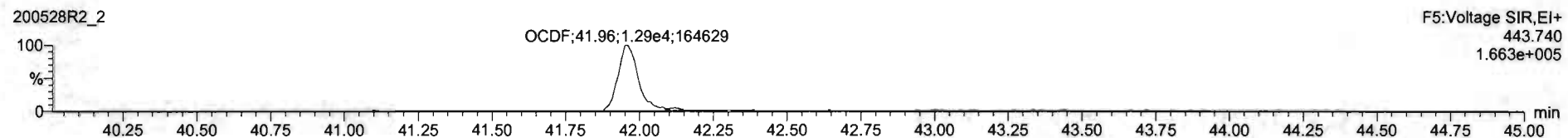
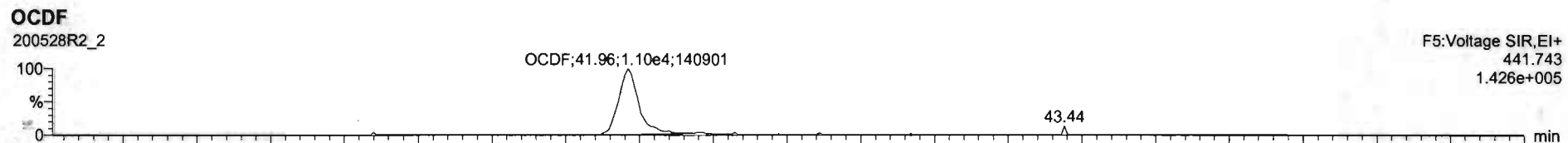


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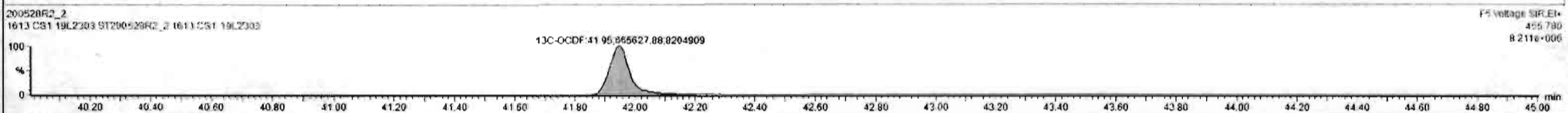
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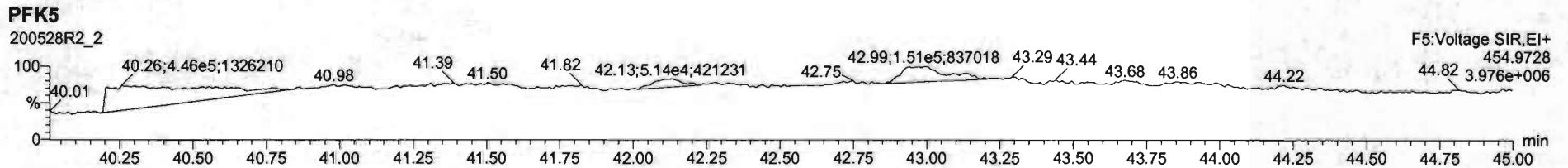
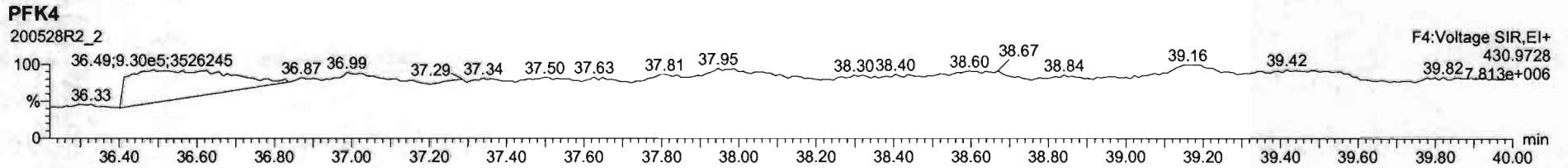
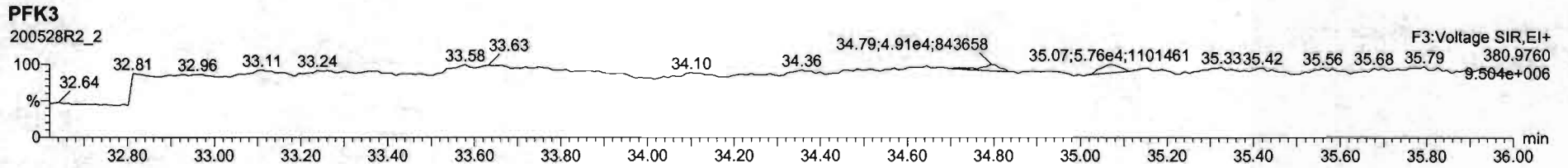
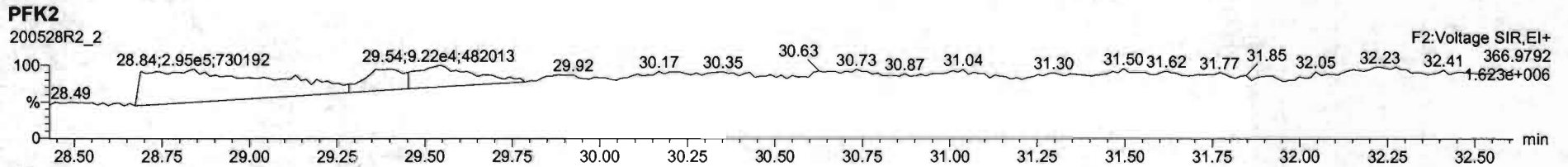
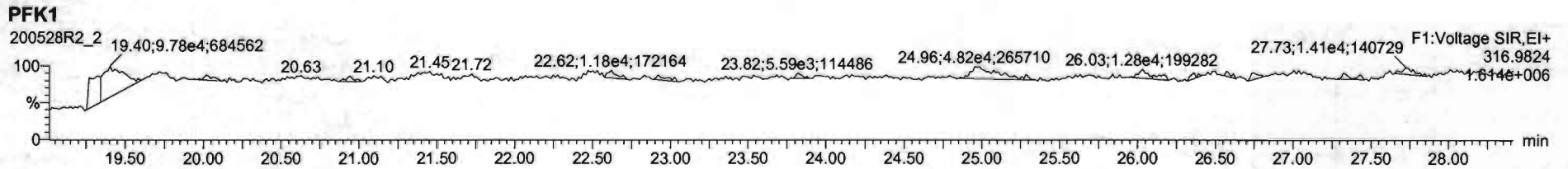
Name	Resp	RA	ntj	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.85e4	1.27	NO	1.0334	1.000	24.85	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.96e4	1.25	NO	0.8923	1.000	24.99	1.001	2.47	96.9	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8869	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	92.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.148	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.488	97.7	0.0670	0.488
9 1,2,3,7,8-PeCDF	3.09e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.28	NO	0.9341	1.000	34.21	1.001	2.38	95.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.42e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0126	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e0	0.79	NO	1.1563	1.000	26.54	1.025	39.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	5.46e5	1.28	NO	0.7790	1.000	24.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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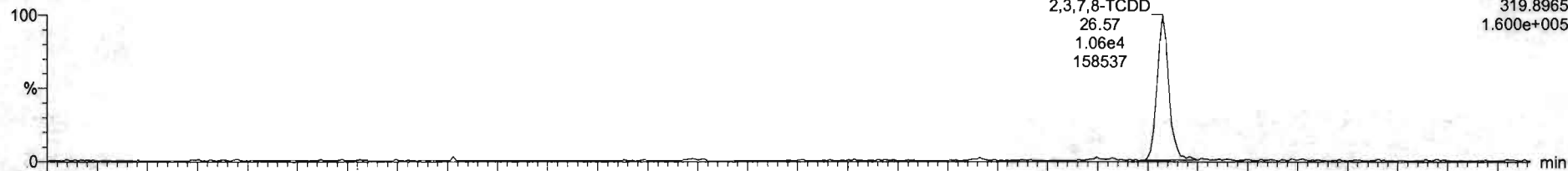
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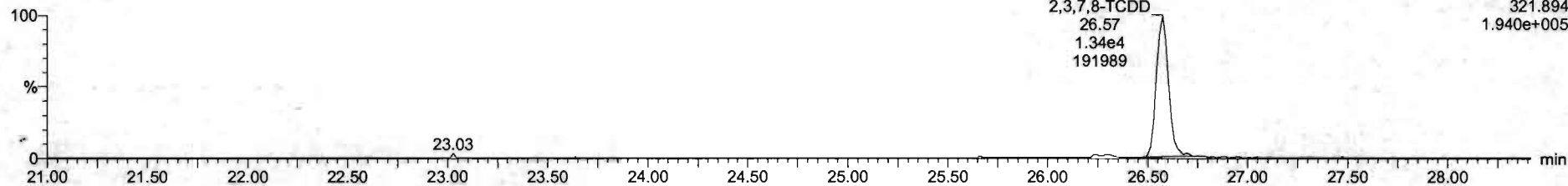
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2,3,7,8-TCDD

200528R2_3



200528R2_3

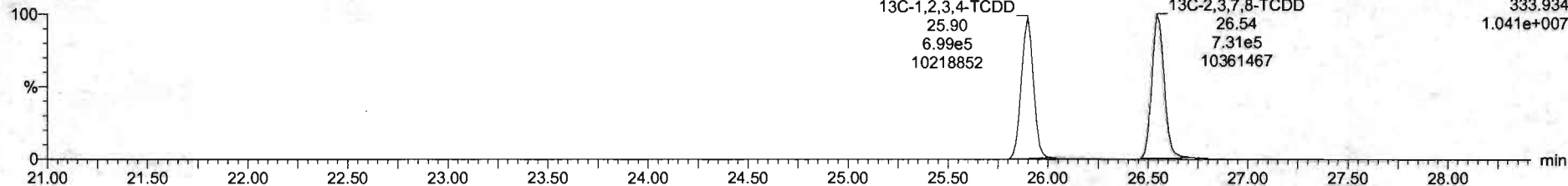


13C-2,3,7,8-TCDD

200528R2_3



200528R2_3



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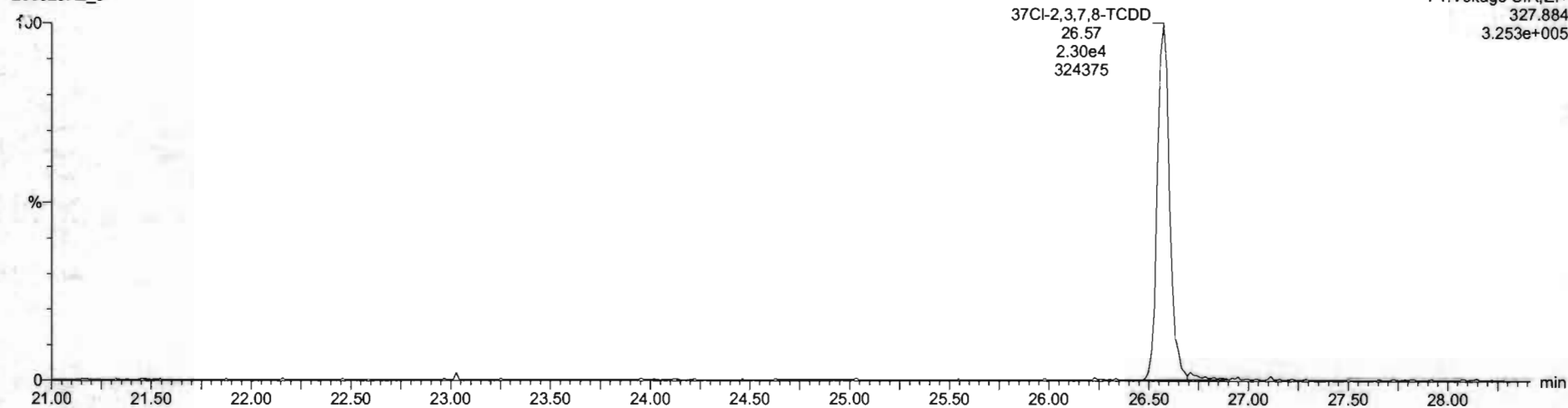
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Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

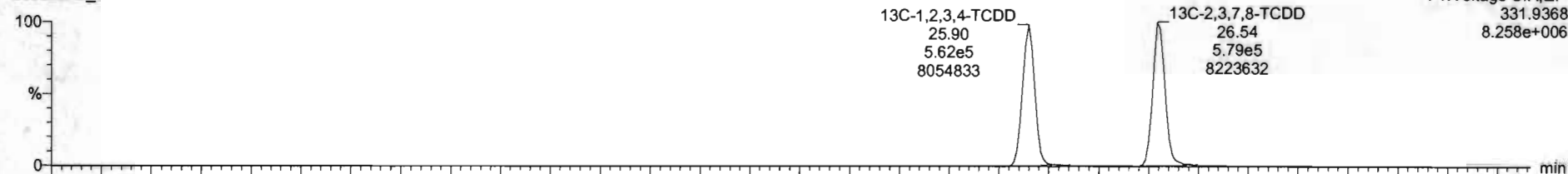
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200528R2_3

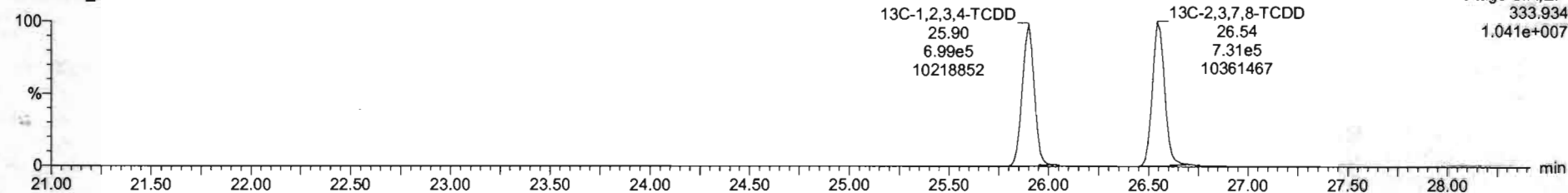


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200528R2_3



200528R2_3



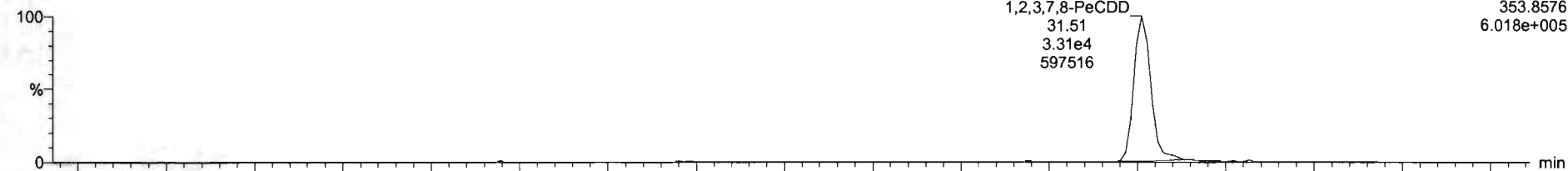
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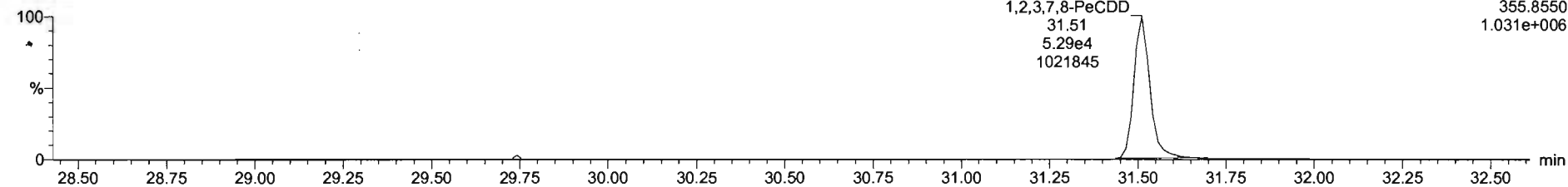
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1,2,3,7,8-PeCDD

200528R2_3

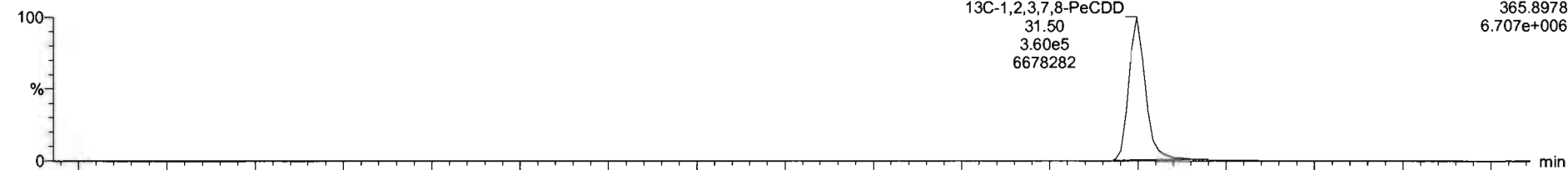


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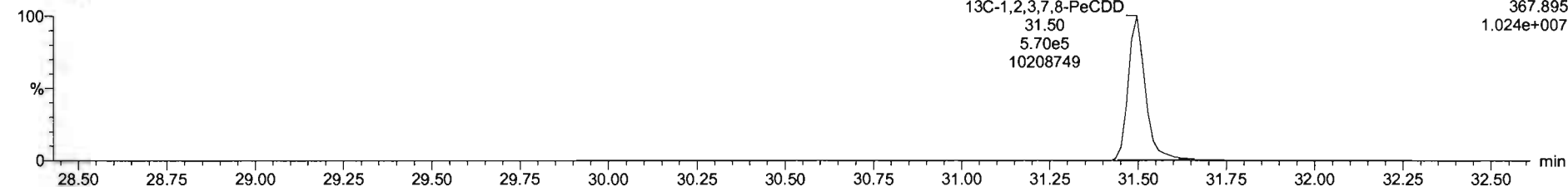


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200528R2_3



200528R2_3



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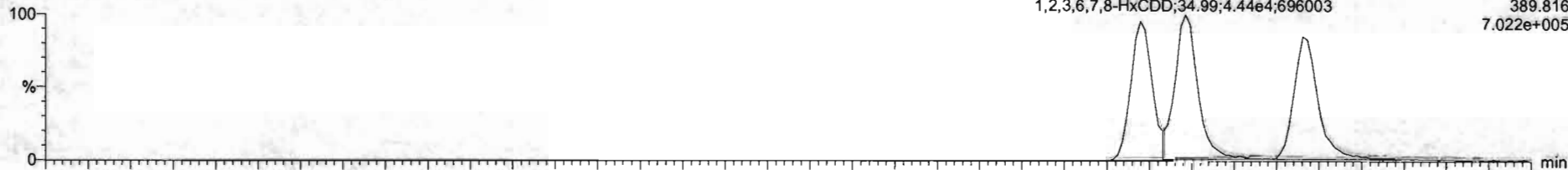
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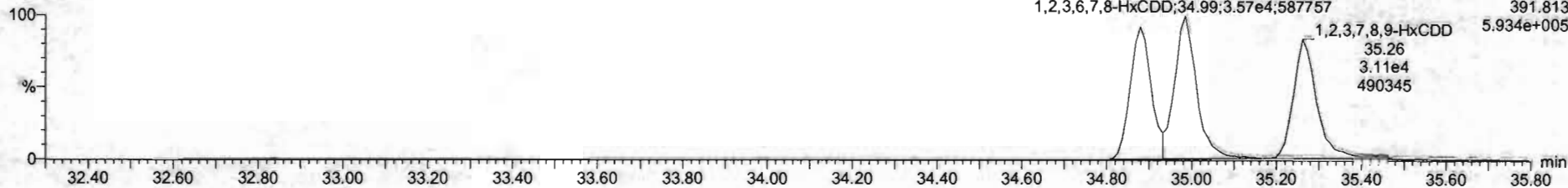
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1,2,3,4,7,8-HxCDD

200528R2_3

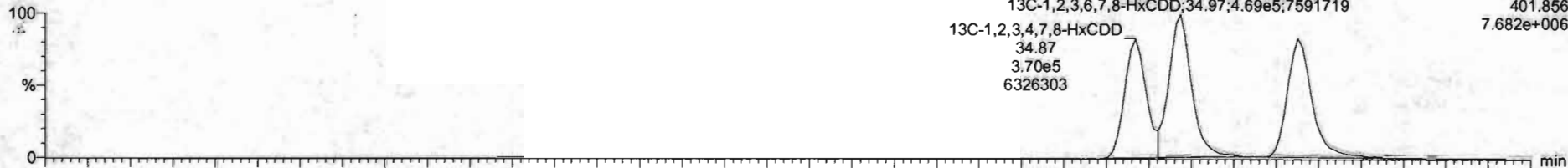


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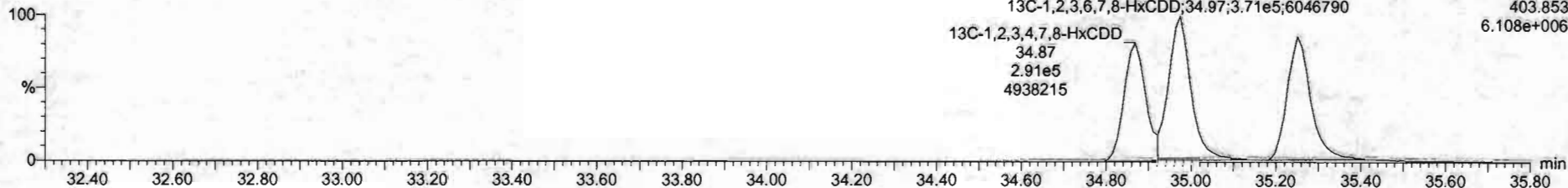


13C-1,2,3,4,7,8-HxCDD

200528R2_3



200528R2_3



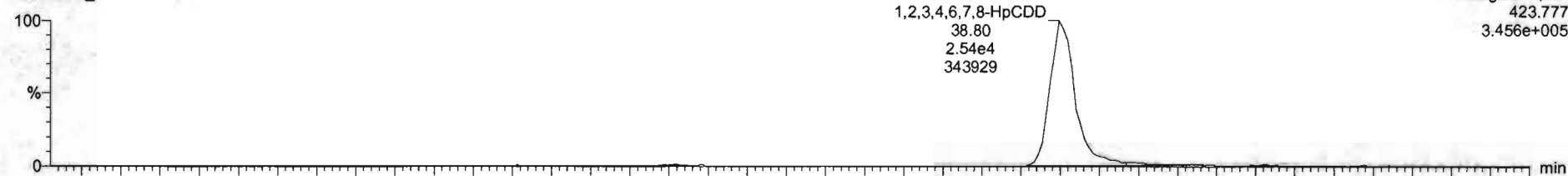
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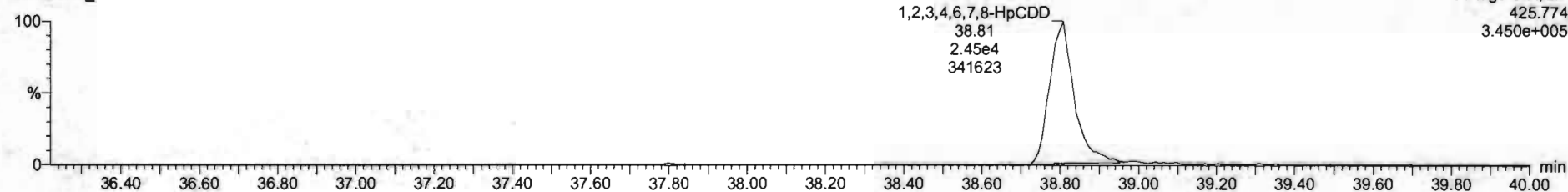
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1,2,3,4,6,7,8-HpCDD

200528R2_3

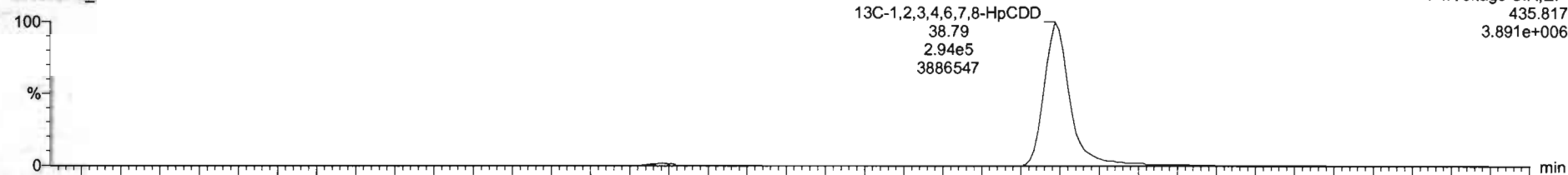


200528R2_3

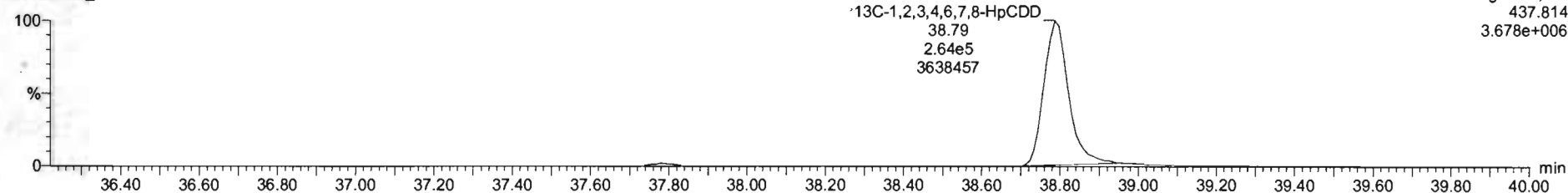


13C-1,2,3,4,6,7,8-HpCDD

200528R2_3



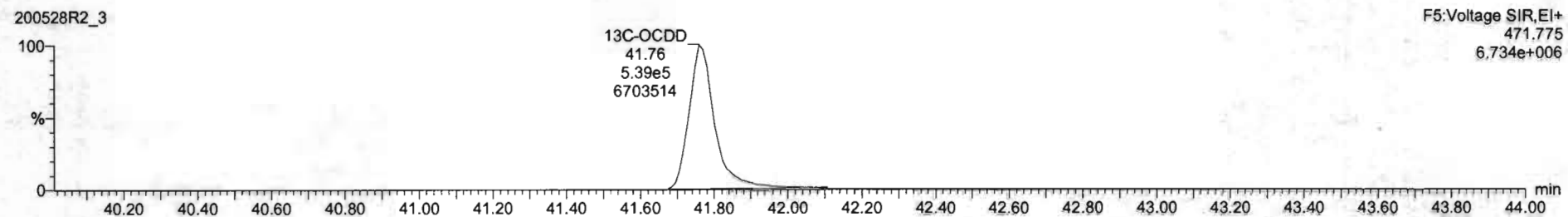
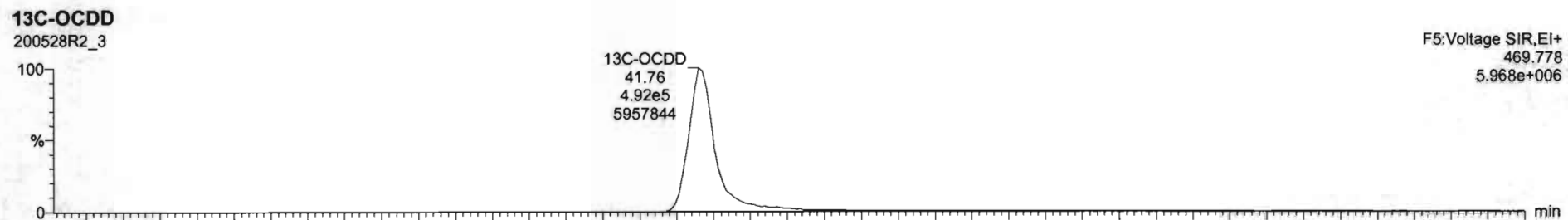
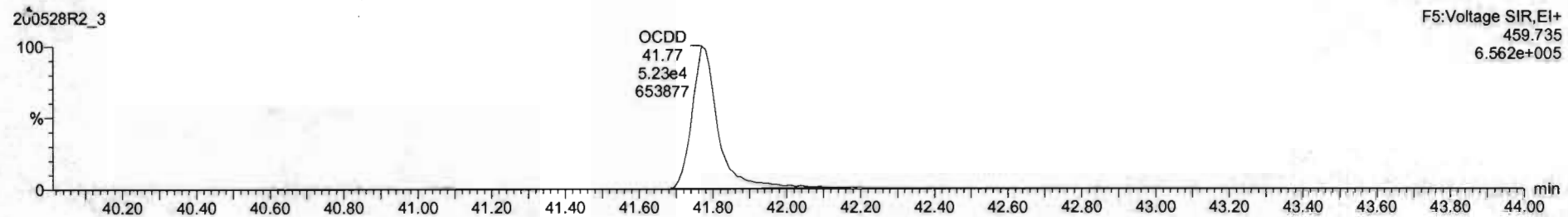
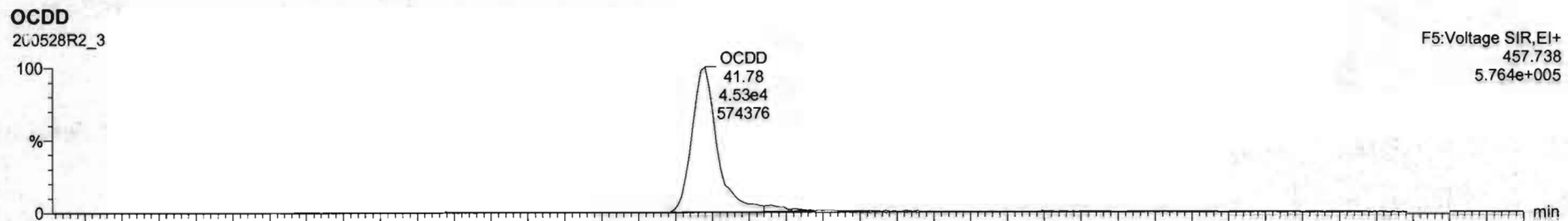
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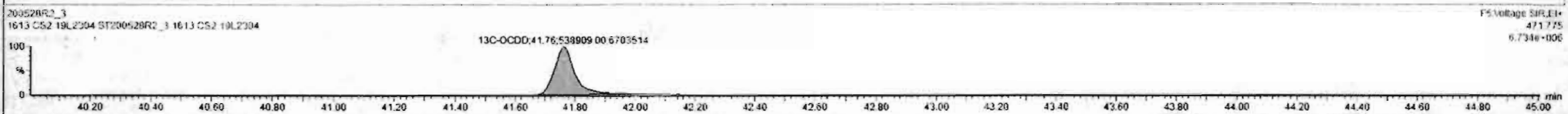
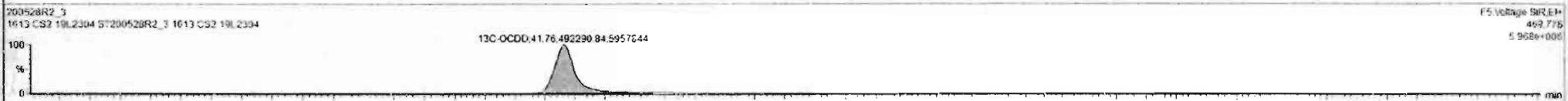
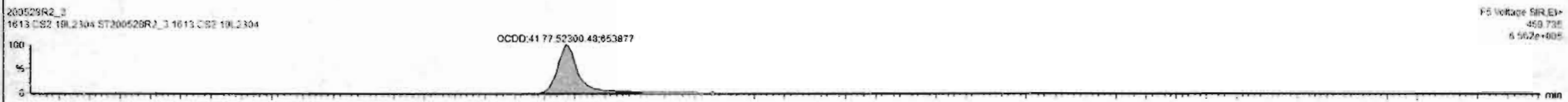
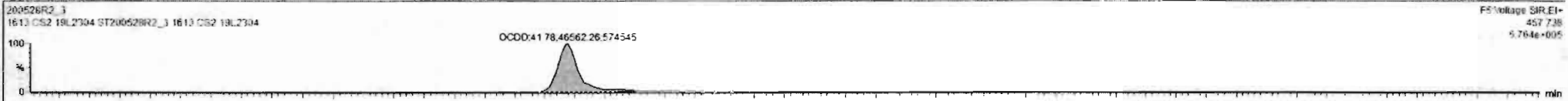
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Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



Name	Resp	RA	n/y	RHF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.40e4	0.30	NO	0.8983	1.000	26.57	1.001	2.05	103	0.0278	2.96
2 1,2,3,7,8-PeCDD	5.50e4	0.63	NO	0.9081	1.000	31.51	1.000	10.2	102	0.0400	10.2
3 1,2,3,4,7,8-HxCDD	6.94e4	1.24	NO	1.0324	1.000	34.88	1.000	10.2	102	0.0561	10.2
4 1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8523	1.000	34.99	1.000	10.7	107	0.0559	10.7
5 1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.8265	1.000	35.26	1.000	10.5	105	0.0679	10.5
6 1,2,3,4,6,7,8-HpCDD	4.59e4	1.93	NO	0.8639	1.000	38.50	1.000	10.4	104	0.0797	10.4
7 OCDD	9.65e4	0.39	NO	0.9136	1.000	41.76	1.000	21.0	105	0.109	21.0
8 2,3,7,8-TCDF	2.67e4	0.74	NO	0.7510	1.000	26.88	1.001	1.97	96.6	0.0321	1.97
9 1,2,3,7,8-PeCDF	1.31e5	1.55	NO	0.8925	1.000	30.23	1.000	10.7	107	0.0517	10.7
10 2,3,4,7,8-PeCDF	1.34e5	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11 1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.81	1.001	10.6	106	0.0661	10.6
12 1,2,3,6,7,8-HxCDF	5.20e4	1.28	NO	0.8892	1.000	34.12	1.000	10.3	103	0.0595	10.3
13 2,3,4,6,7,8-HxCDF	6.53e4	1.25	NO	0.9341	1.000	34.71	1.000	10.5	105	0.0860	10.5
14 1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8707	1.000	35.62	1.000	10.3	103	0.0961	10.3
15 1,2,3,4,6,7,8-HpCDF	5.72e4	1.00	NO	0.6734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16 1,2,3,4,7,8,9-HpCDF	4.43e4	1.91	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0861	10.4
17 OCDF	3.85e4	0.66	NO	0.8085	1.000	41.96	1.000	20.6	103	0.0967	20.6
18 13C-2,3,7,8-TCDD	1.31e6	0.79	NO	1.1583	1.000	26.54	1.025	29.3	89.6	0.0659	
19 13C-1,2,3,7,8-PeCDD	9.29e5	0.63	NO	0.8450	1.000	31.50	1.216	86.8	86.8	0.123	
20 13C-1,2,3,4,7,8-HxCDD	6.61e5	1.27	NO	0.7790	1.000	34.87	1.014	87.0	87.0	0.189	
21 13C-1,2,3,6,7,8-HxCDD	6.39e5	1.26	NO	1.0167	1.000	34.97	1.017	84.7	84.7	0.145	



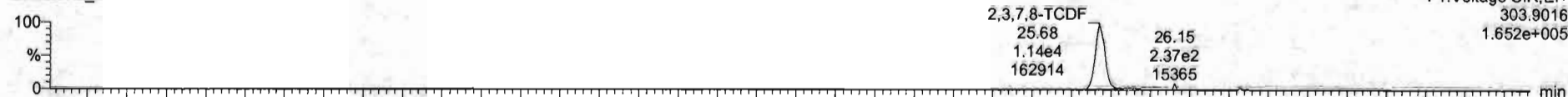
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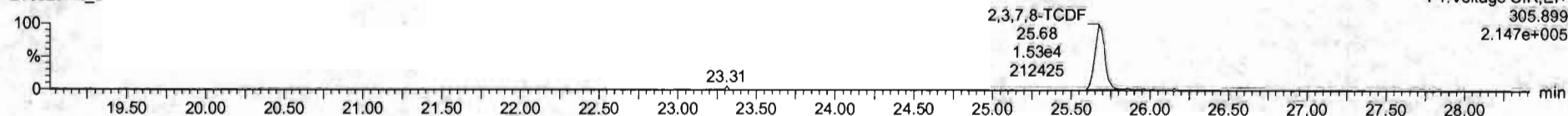
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2,3,7,8-TCDF

200528R2_3

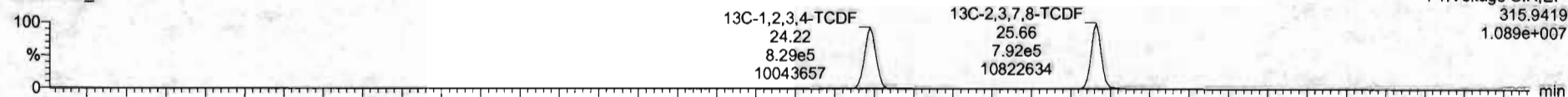


200528R2_3

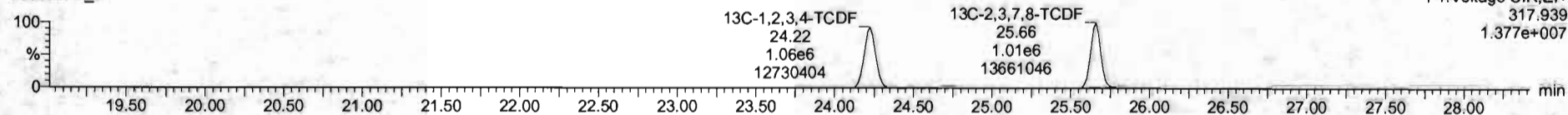


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200528R2_3

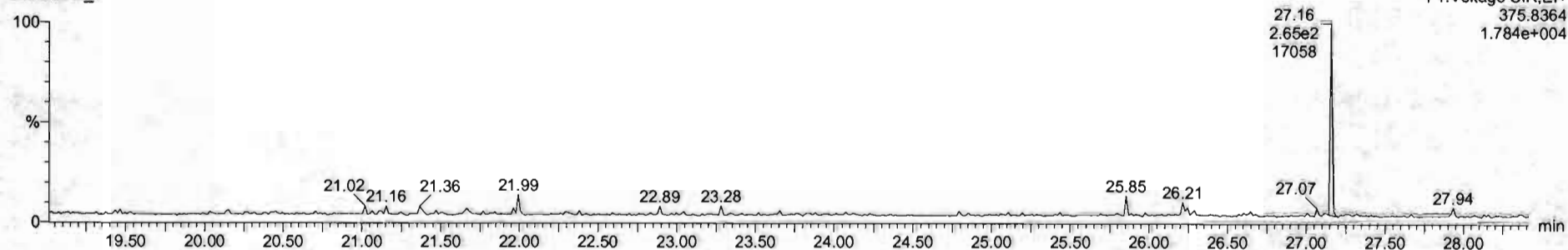


200528R2_3



DPE1

200528R2_3



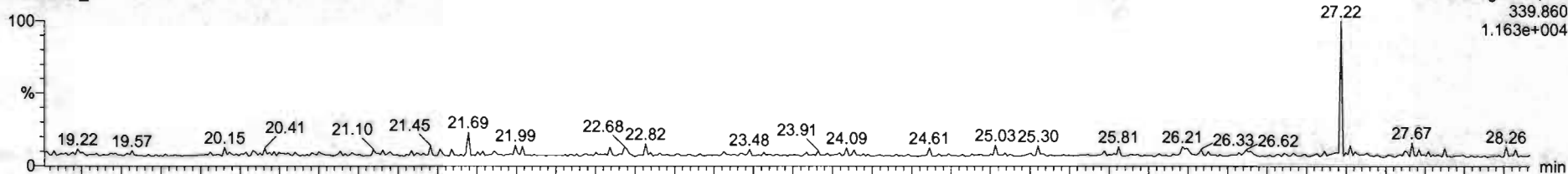
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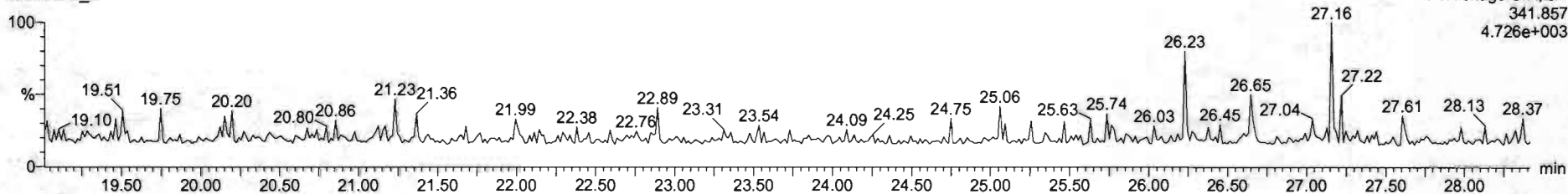
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1st Func. Penta-Furans

200528R2_3

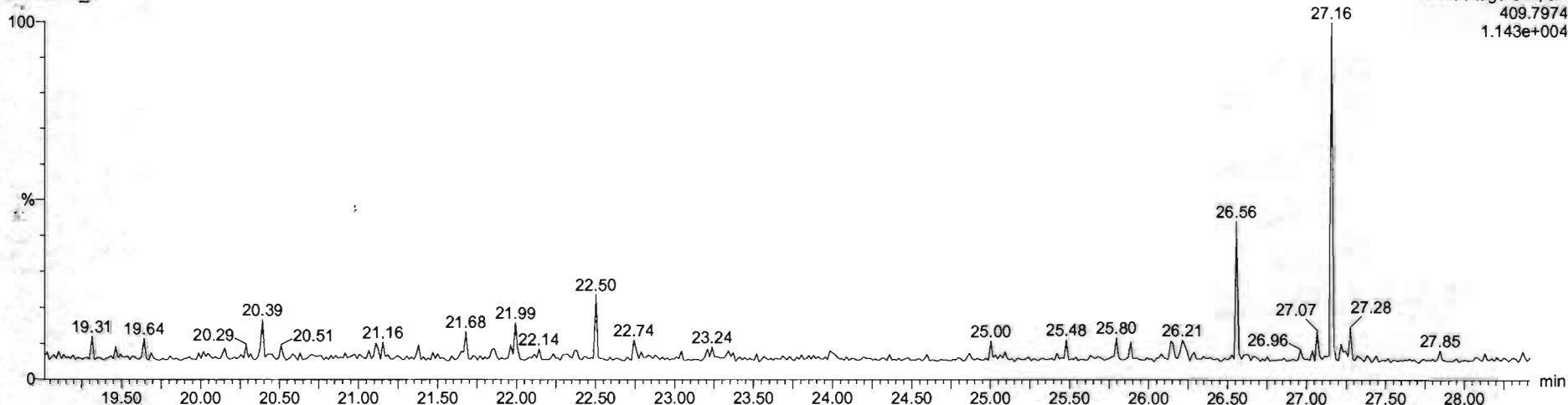


200528R2_3



DPE6

200528R2_3



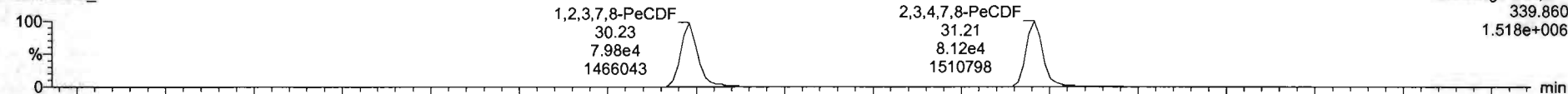
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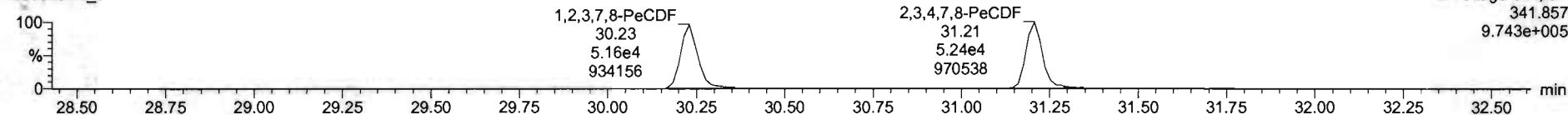
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1,2,3,7,8-PeCDF

200528R2_3

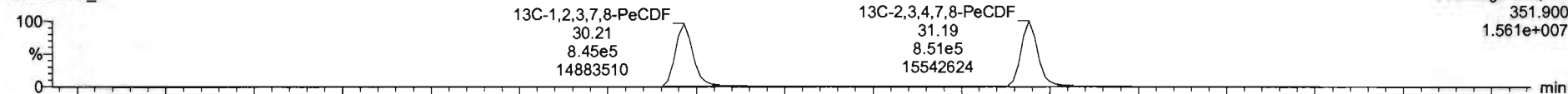


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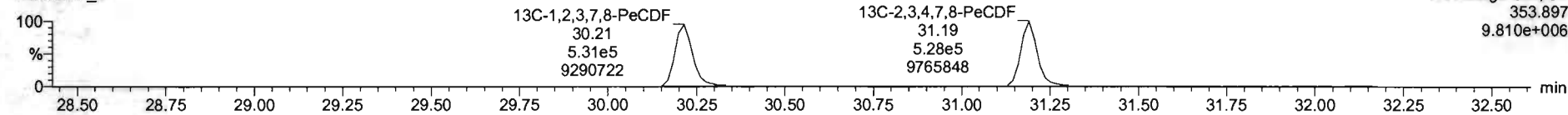


13C-1,2,3,7,8-PeCDF

200528R2_3

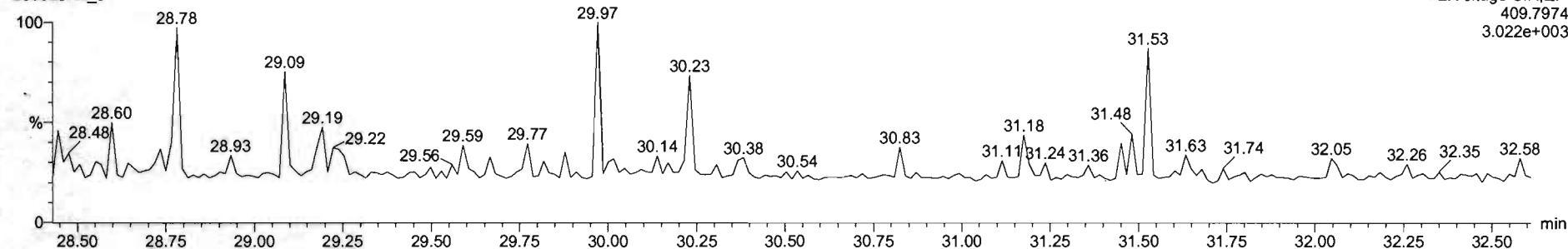


200528R2_3



DPE2

200528R2_3



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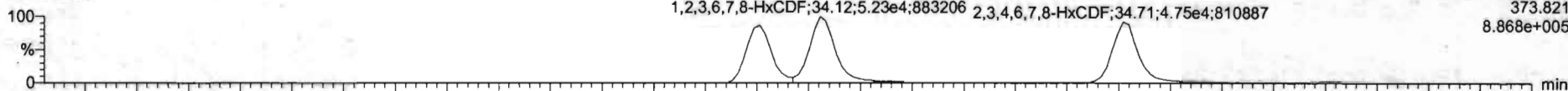
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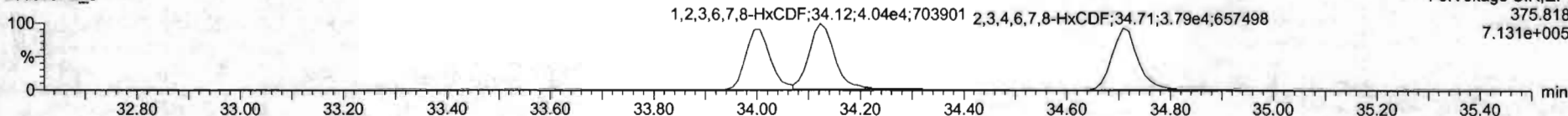
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1,2,3,4,7,8-HxCDF

200528R2_3

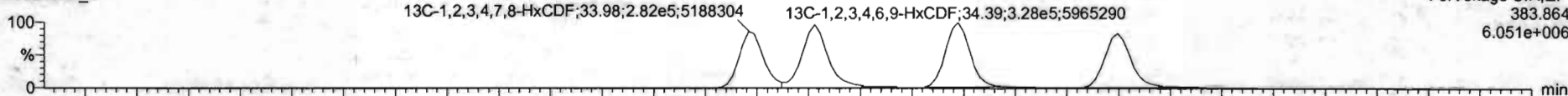


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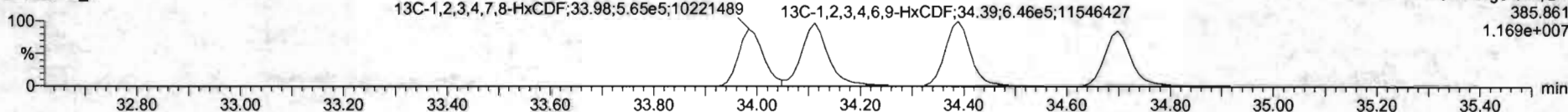


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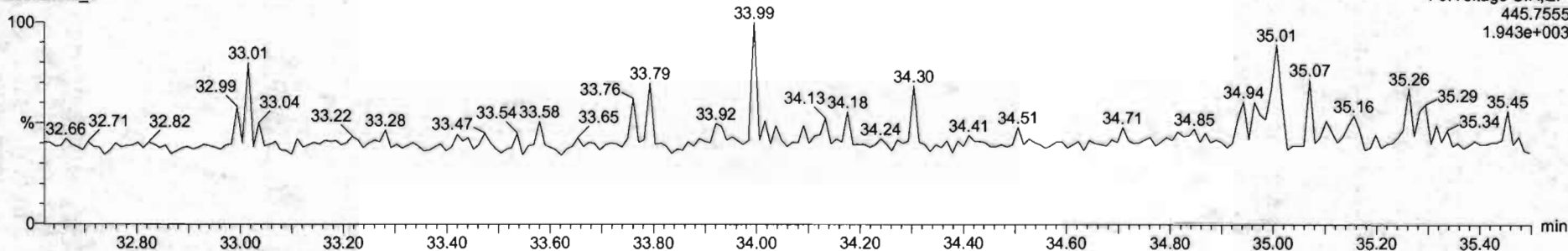


200528R2_3



DPE3

200528R2_3

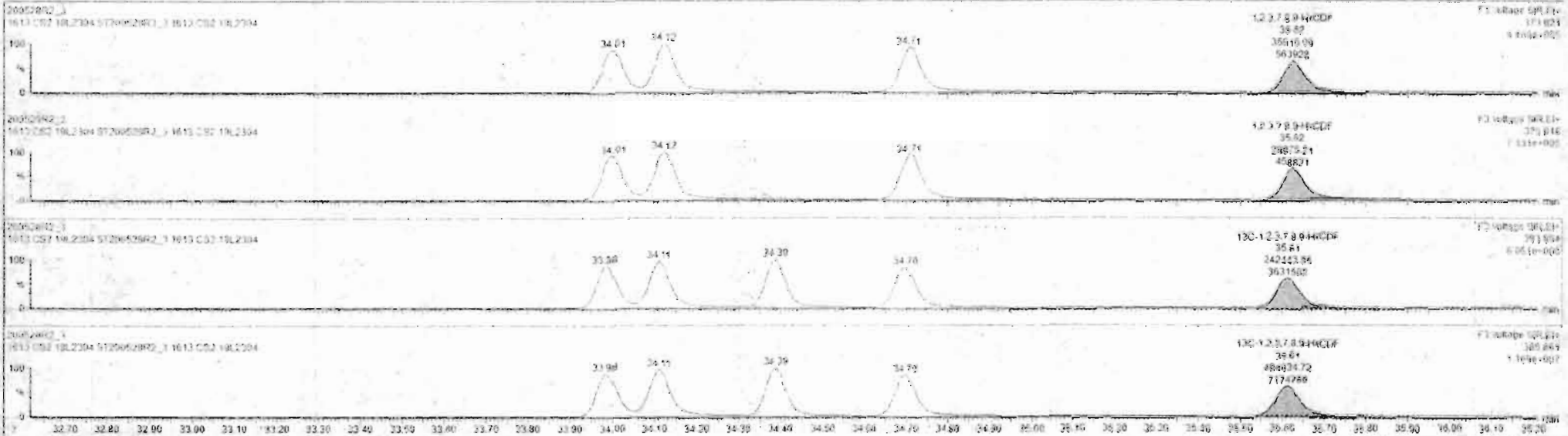


#	Name	Resp	RA	n/y	RRF	weight	RT	NK1	Conc	%Rec	DR	EMPL
1	1,2,3,6,7-CDD	2.58e4	0.39	NO	0.8883	1.000	26.57	1.001	2.08	103	0.0270	2.08
2	1,2,3,7,8-PeCDD	5.58e4	0.43	NO	0.9051	1.000	31.51	1.000	10.2	102	0.0400	10.2
3	1,2,3,4,7,8-HxCDD	5.94e4	1.24	NO	1.9334	1.000	34.88	1.000	16.2	102	0.0531	16.2
4	1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8923	1.000	34.95	1.000	16.7	107	0.0558	16.7
5	1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.9269	1.000	35.26	1.000	16.1	105	0.0670	16.1
6	1,2,3,4,6,7,8-HpCDD	1.99e4	1.02	NO	0.8839	1.000	39.80	1.000	10.4	104	0.0397	10.4
7	OCDD	9.89e4	0.39	NO	0.9136	1.000	41.75	1.000	21.0	105	0.1169	21.0
8	1,2,3,6,7,8-HxCDF	2.87e4	0.74	NO	0.7510	1.000	35.60	1.001	1.91	98.8	0.0211	1.91
9	1,2,3,7,8-PeCDF	1.31e5	1.58	NO	0.8025	1.000	36.23	1.000	10.7	107	0.0217	10.7
10	1,2,3,4,7,8-HpCDF	1.34e4	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	106	0.0611	10.4
12	1,2,3,6,7,8-HxCDF	9.26e4	1.28	NO	0.8852	1.000	34.12	1.000	11.3	103	0.0595	10.3
13	1,2,3,4,7,8-HpCDF	8.03e4	1.21	NO	0.9191	1.000	34.71	1.000	10.5	105	0.0693	10.5
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.9707	1.000	35.62	1.000	10.3	102	0.0911	10.3
15	1,2,3,4,6,7,8-HpCDF	3.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0881	10.4
17	OCDF	5.58e4	0.56	NO	0.8585	1.000	41.90	1.000	26.3	103	0.0967	26.3
18	13C-1,2,3,7,8-PeCDD	1.31e5	0.79	NO	1.1562	1.000	26.54	1.025	39.0	99.8	0.0819	
19	13C-1,2,3,7,8-PeCDF	9.26e4	0.63	NO	0.8499	1.000	31.50	1.216	98.0	98.1	0.123	
20	13C-1,2,3,4,7,8-HpCDD	8.61e5	1.27	NO	0.7790	1.000	24.97	1.014	37.0	97.3	0.149	
21	13C-1,2,3,6,7,8-HxCDD	8.19e5	1.38	NO	1.9187	1.000	24.97	1.017	64.7	94.7	0.146	





#	Name	Range	ISA	Qty	RFP	wtVol	RT	RRT	Conc	%Rec	DI	EMPC
1	1,2,3,7,8-HxCDD	2.48e4	0.30	NO	0.8853	1.000	26.17	1.001	3.28	101	0.0079	2.01
2	1,2,3,7,8-PeCDD	5.55e4	0.82	NO	0.9041	1.000	31.21	1.002	10.2	102	0.0430	12.2
3	1,2,3,4,7,8-HxCDD	5.94e4	1.24	NO	1.0374	1.000	34.00	1.000	10.2	102	0.0511	10.2
4	1,2,3,6,7,8-HxCDD	1.01e4	1.24	NO	0.8927	1.000	34.99	1.000	10.7	101	0.0569	10.7
5	1,2,3,7,8,9-HxCDD	7.51e4	1.25	NO	0.8905	1.000	35.20	1.000	10.5	101	0.0670	10.5
6	1,2,3,4,6,7,8-HpCDD	4.99e4	1.03	NO	0.8838	1.000	28.00	1.000	10.4	104	0.0197	10.4
7	CDD	3.89e4	0.89	NO	0.9130	1.000	41.75	1.000	21.0	105	3.100	21.0
8	1,2,3,6,7,8-HxCDF	2.87e4	0.74	NO	0.7510	1.000	25.09	1.001	1.97	98.6	0.0231	1.97
9	1,2,3,7,8-HxCDF	1.31e4	1.55	NO	0.9225	1.000	30.21	1.000	10.7	101	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.38e4	1.55	NO	0.9245	1.000	31.21	1.000	10.5	104	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	100	0.0683	10.5
12	1,2,3,6,7,8-HxCDF	4.26e4	1.25	NO	0.9092	1.000	34.12	1.000	10.2	103	0.0590	10.2
13	1,2,3,4,7,8-HxCDF	8.51e4	1.21	NO	0.9341	1.000	34.71	1.000	10.1	100	0.0600	10.1
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8787	1.000	35.81	1.000	10.3	102	0.0501	10.3
15	1,2,3,4,6,7,8-HpCDF	1.72e4	1.00	NO	0.8734	1.000	27.40	1.001	10.1	101	0.0820	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	0.8128	1.000	28.38	1.000	10.4	104	0.0601	10.4
17	CDF	3.56e4	0.60	NO	0.8985	1.000	41.96	1.000	25.4	103	0.0963	25.4
18	1,2,3,4,6,7,8-HpCDF	1.31e4	0.79	NO	1.1560	1.000	26.54	1.025	19.0	89.5	0.0663	
19	1,2,3,6,7,8-HxCDF	9.29e4	0.83	NO	0.9420	1.000	31.08	1.216	98.0	96.8	0.123	
20	1,2,3,4,7,8,9-HpCDD	2.61e4	1.27	NO	0.7798	1.000	34.07	1.034	57.0	97.0	0.159	
21	1,2,3,4,6,7,8-HpCDD	6.20e4	1.26	NO	1.0187	1.000	24.97	1.017	34.7	34.7	0.145	



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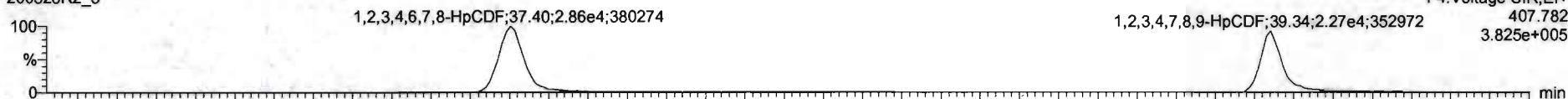
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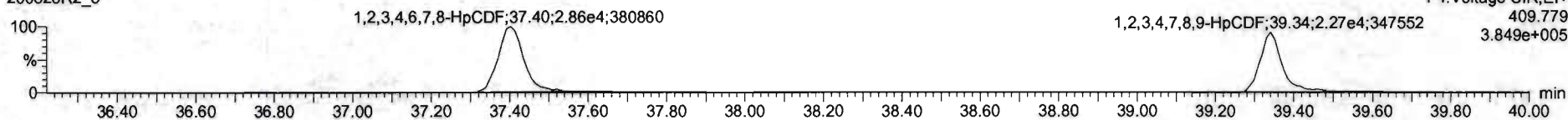
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200528R2_3



200528R2_3

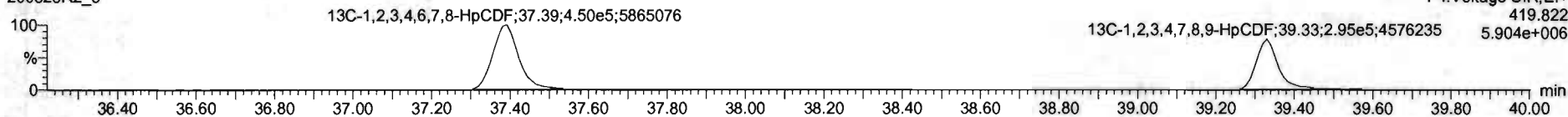


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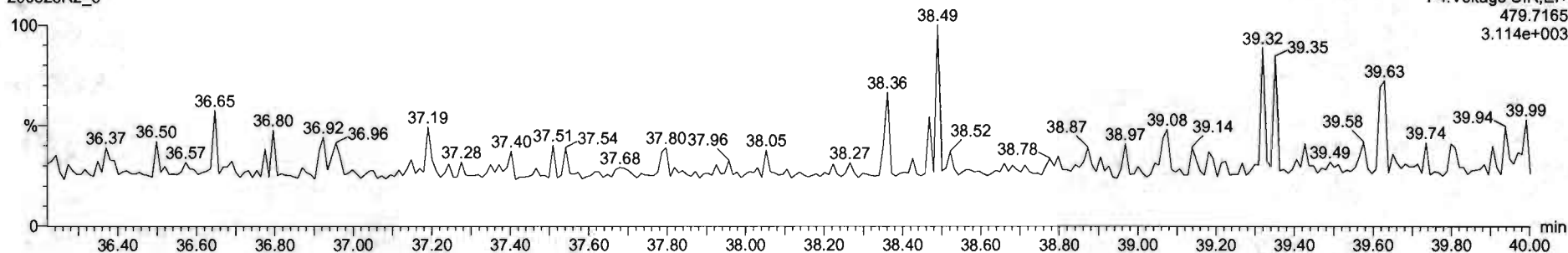


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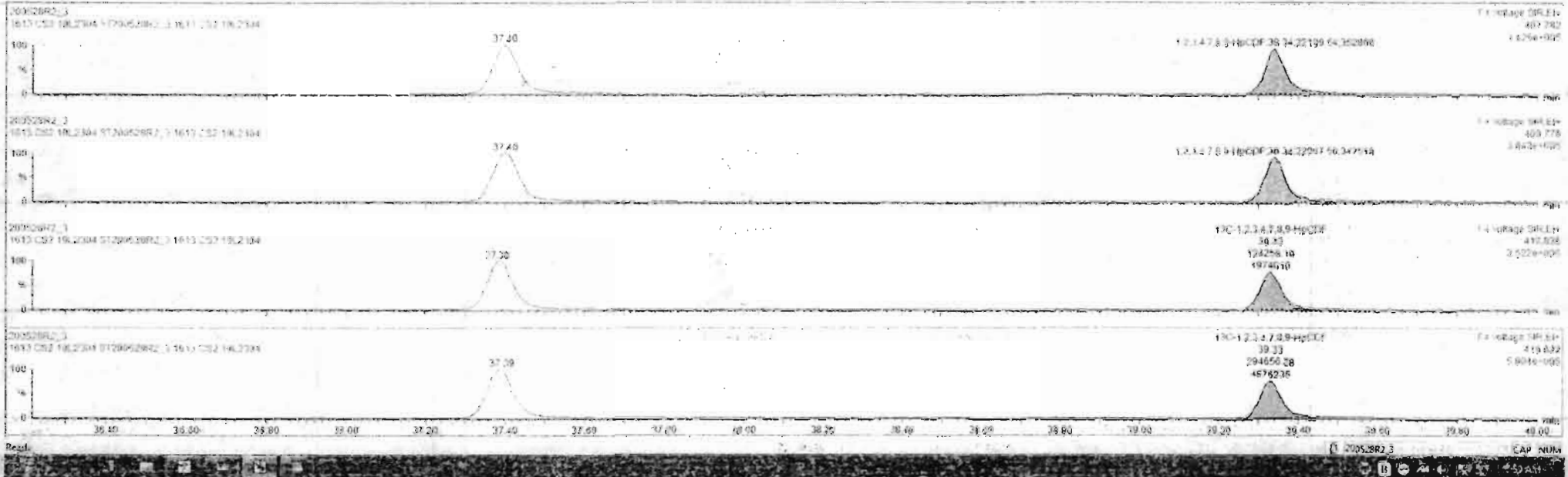
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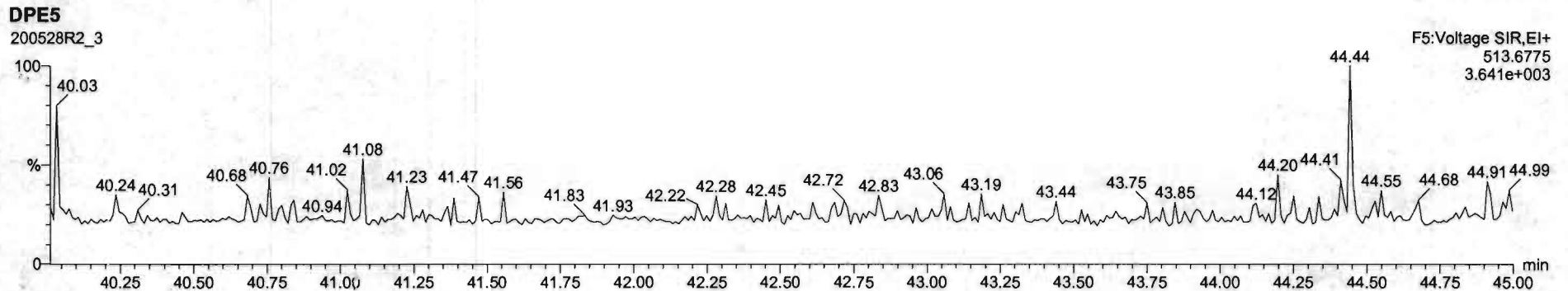
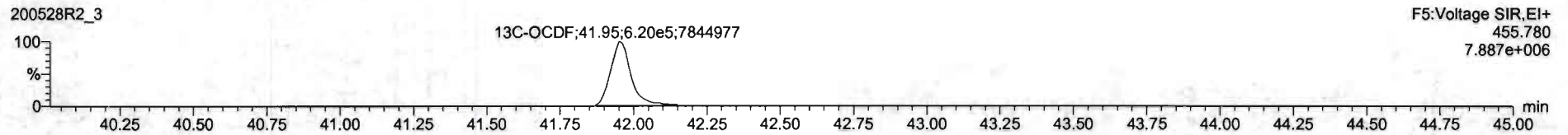
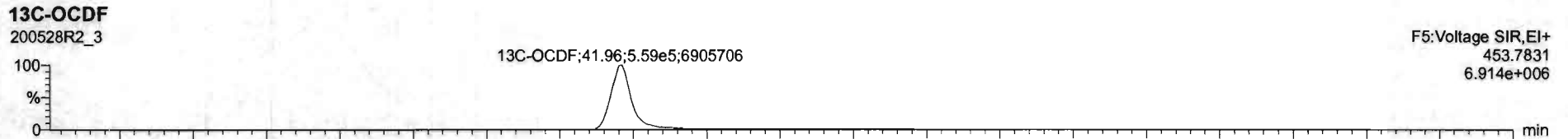
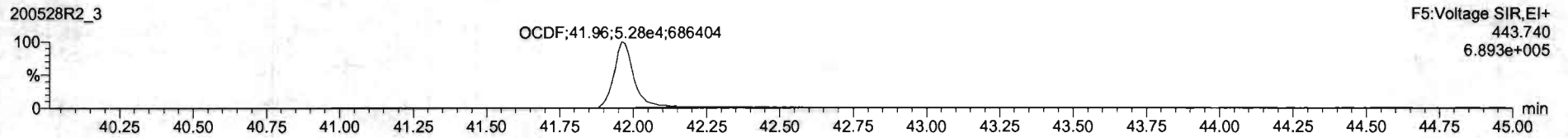
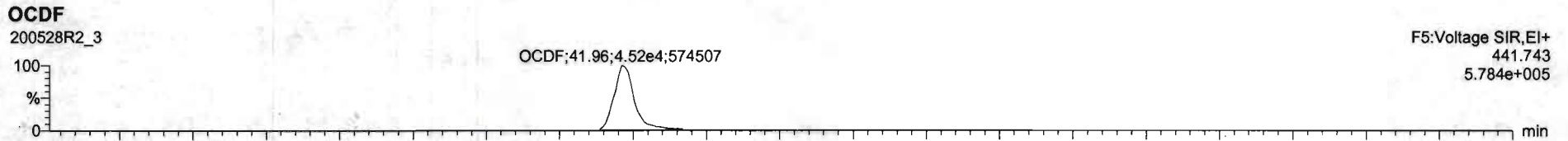
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2	1,2,3,7,8-PeCDF	1.50e4	0.03	NO	0.9091	1.00	31.01	1.00	10.0	107	0.0400	10.0
3	1,2,3,4,7,8-HxCDF	8.90e3	1.24	NO	1.0334	1.00	34.05	1.00	10.0	107	0.0501	10.0
4	1,2,3,6,7,8-HxCDF	6.01e3	1.04	NO	0.8621	1.00	34.36	1.00	10.0	107	0.0559	10.0
5	1,2,3,7,8-HxCDF	2.11e4	1.26	NO	0.8809	1.00	35.26	1.00	10.0	107	0.0579	10.0
6	1,2,3,4,6,7,8-HpCDF	1.90e4	1.02	NO	0.8639	1.00	35.90	1.00	10.0	104	0.0747	10.0
7	OCDF	0.59e4	0.09	NO	0.9126	1.00	41.75	1.00	21.0	105	0.109	21.0
8	2,3,7,8-TCDF	2.72e4	0.24	NO	0.7510	1.00	25.00	1.00	1.97	96.8	0.0121	1.97
9	1,2,3,7,8-PeCDF	1.15e4	1.90	NO	0.6902	1.00	30.23	1.00	10.0	107	0.0517	10.0
10	1,2,3,4,7,8-PeCDF	1.15e4	1.05	NO	0.9140	1.00	31.41	1.00	10.0	104	0.0475	10.0
11	1,2,3,4,7,8-HxCDF	2.91e3	1.02	NO	0.8240	1.00	34.05	1.00	10.0	106	0.0451	10.0
12	1,2,3,6,7,8-HxCDF	1.20e4	1.08	NO	0.9042	1.00	34.12	1.00	10.0	103	0.0545	10.0
13	2,3,4,7,8-HxCDF	6.50e4	1.20	NO	0.9341	1.00	34.71	1.00	10.0	105	0.0640	10.0
14	1,2,3,7,8-HxCDF	6.40e3	1.24	NO	0.8707	1.00	35.42	1.00	10.0	103	0.0611	10.0
15	1,2,3,4,6,7,8-HpCDF	1.72e4	1.00	NO	0.9224	1.00	37.40	1.00	10.0	101	0.0626	10.0
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.03	NO	1.0120	1.00	39.34	1.00	10.0	104	0.0681	10.0
17	OCDF	9.46e3	0.00	NO	0.9060	1.00	41.30	1.00	26.6	103	0.0847	26.6
18	1,2,3,4,6,7,8-HpCDF	1.31e4	0.76	NO	1.1503	1.00	26.34	1.00	50.0	39.0	0.0850	50.0
19	1,2,3,4,7,8-PeCDF	9.19e3	0.03	NO	0.8450	1.00	31.00	1.00	20.0	90.0	0.123	20.0
20	1,2,3,4,7,8-HxCDF	8.61e3	1.27	NO	0.7790	1.00	34.07	1.00	10.0	104	0.100	10.0
21	1,2,3,4,6,7,8-HpCDF	6.30e3	1.20	NO	1.0107	1.00	34.07	1.00	10.0	104	0.140	10.0



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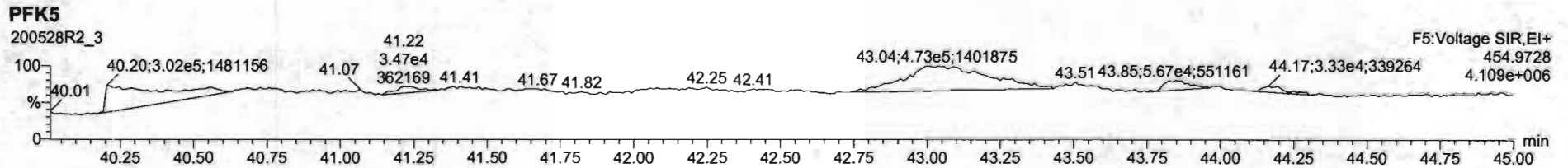
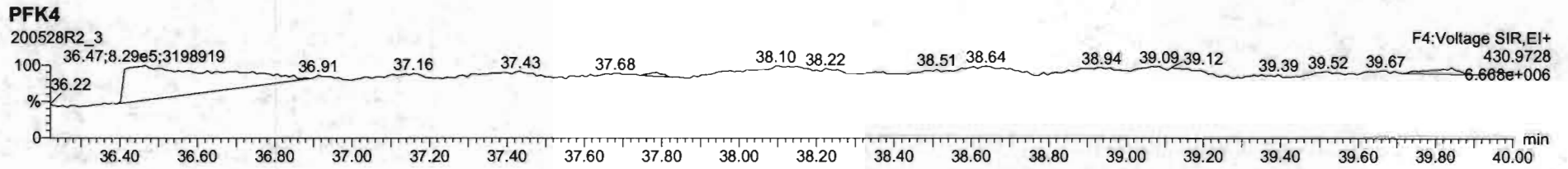
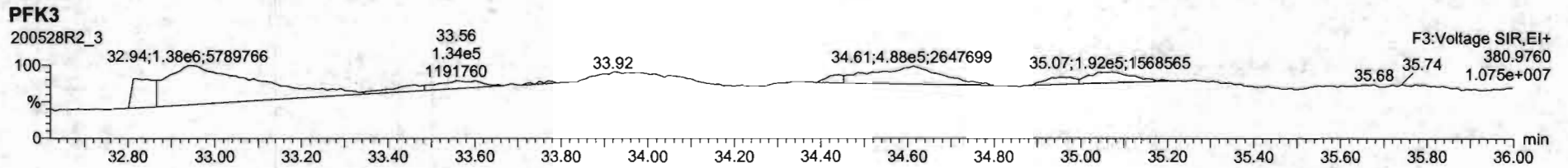
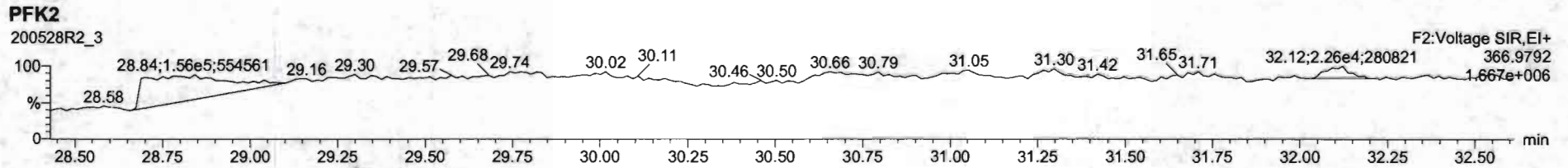
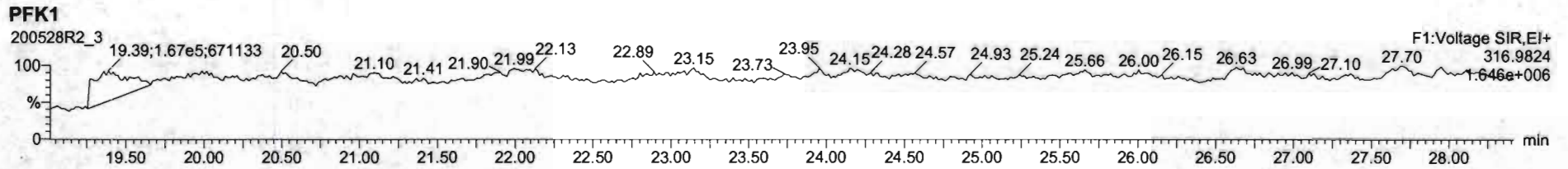


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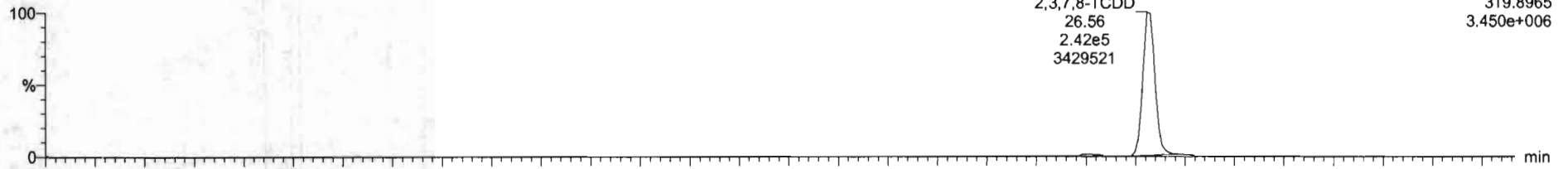
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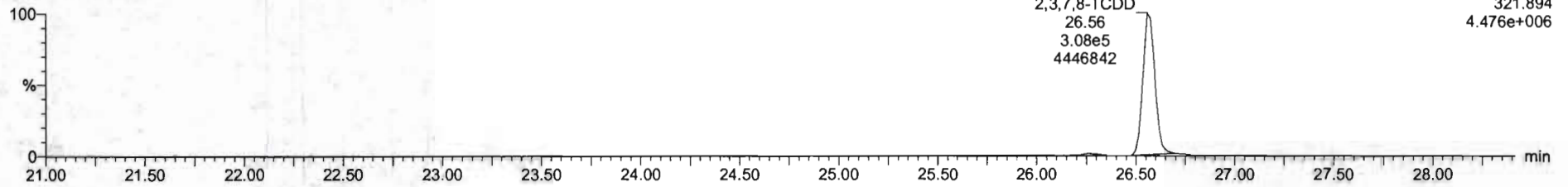
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2,3,7,8-TCDD

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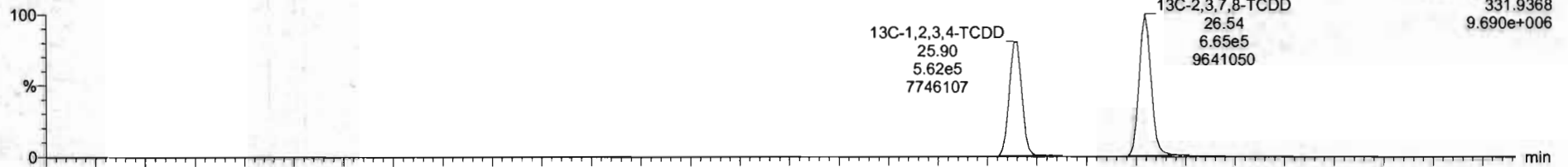


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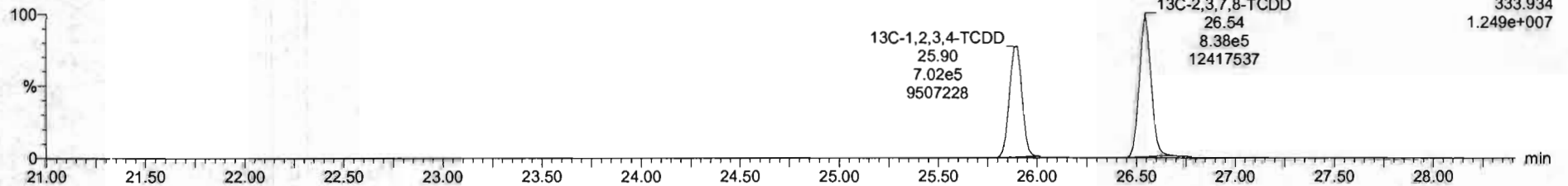


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200528R2_4



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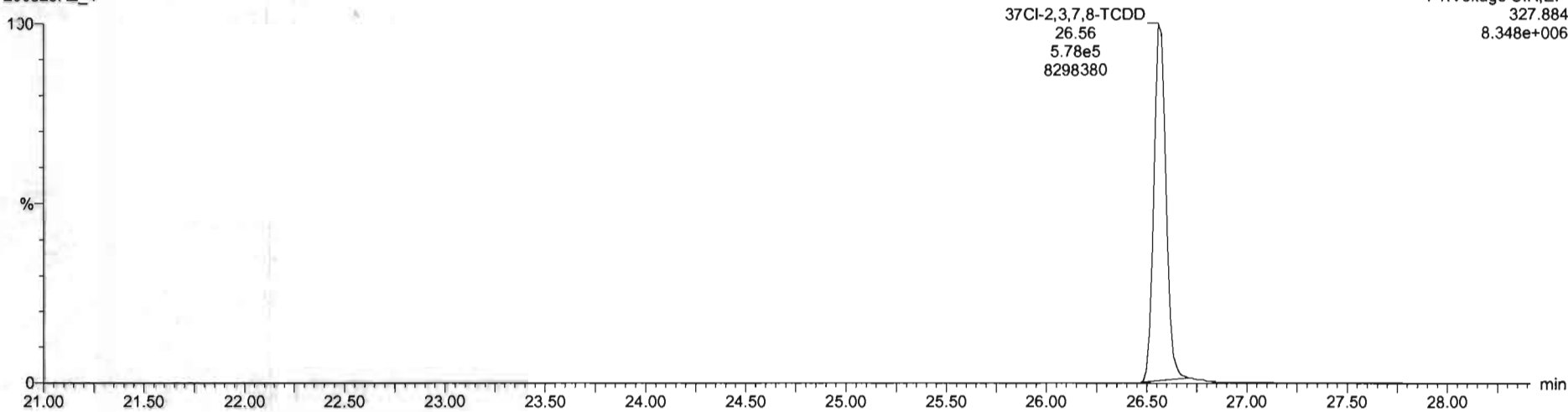
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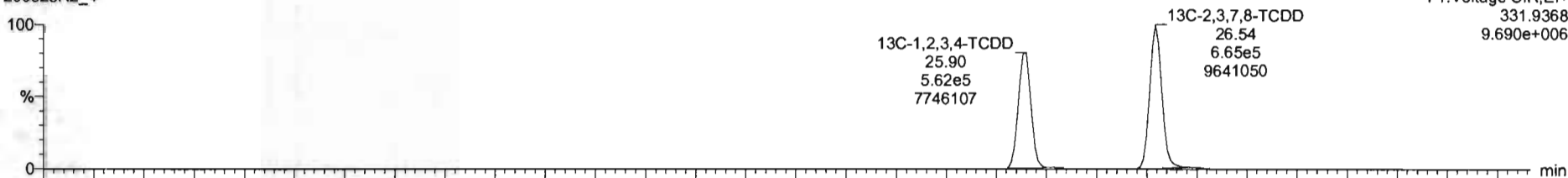
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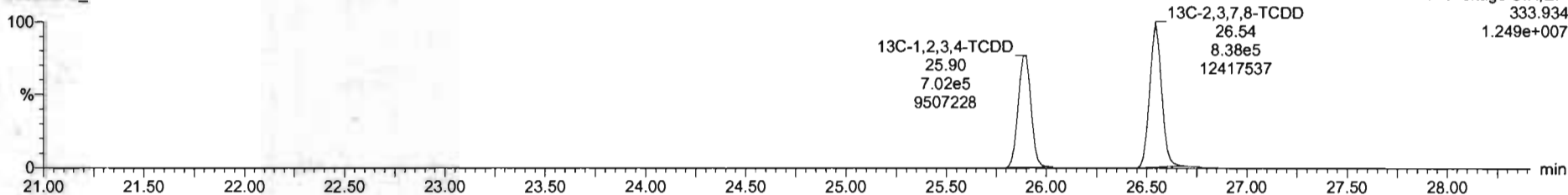


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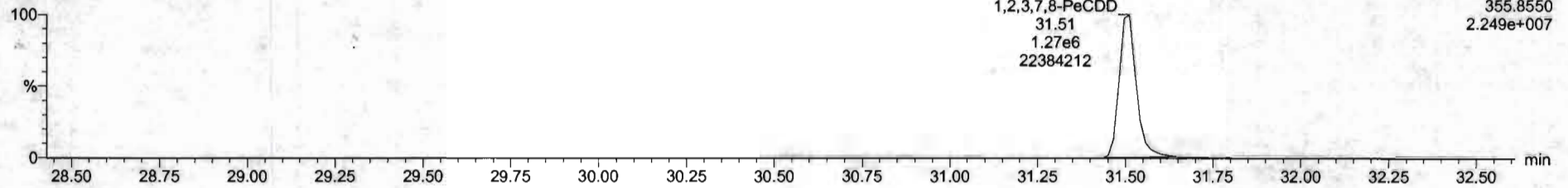
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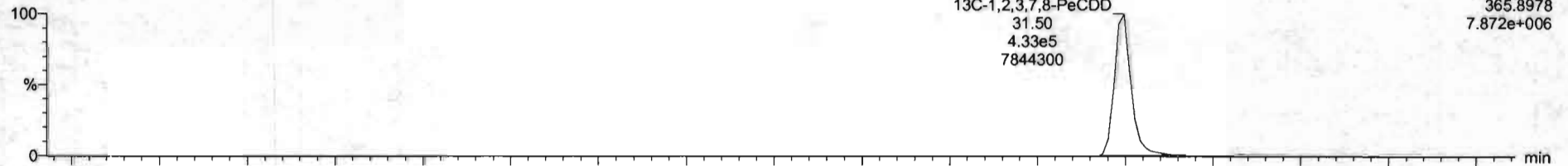


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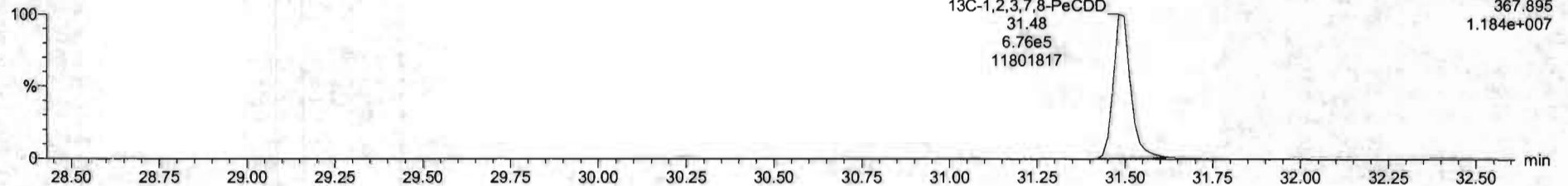


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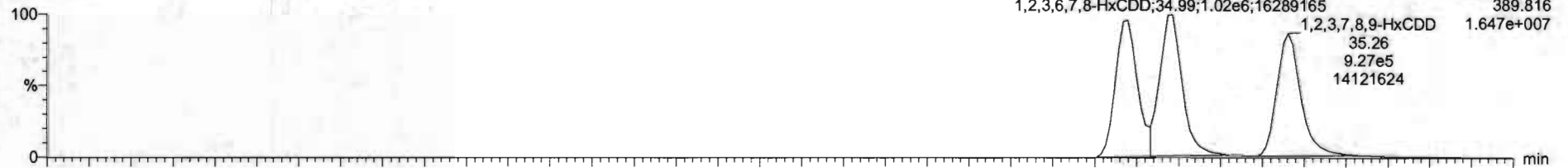
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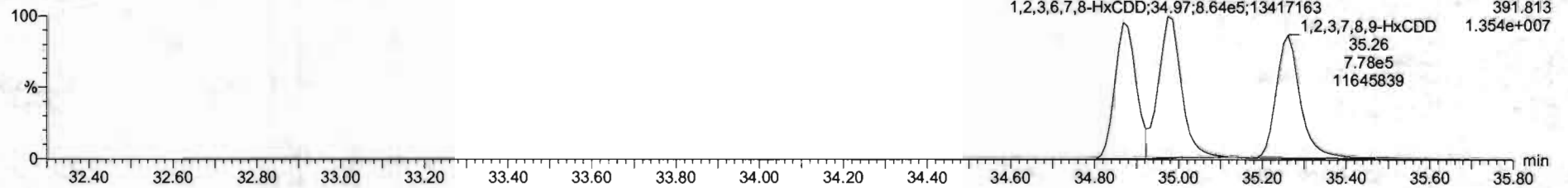
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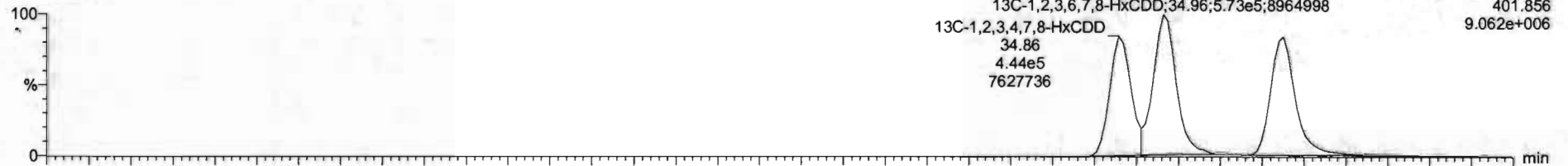


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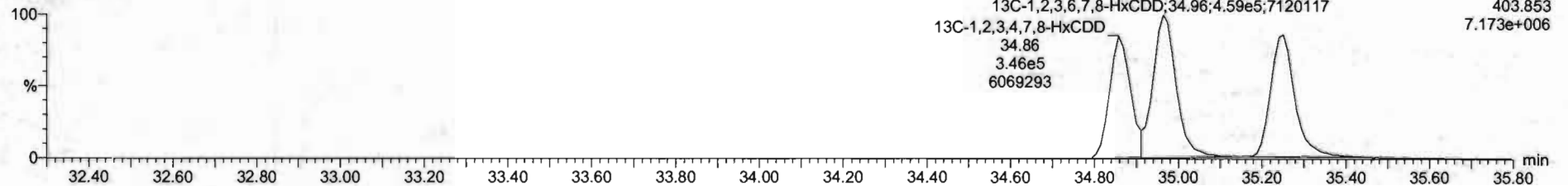


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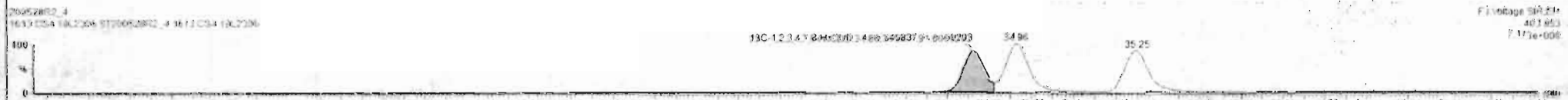
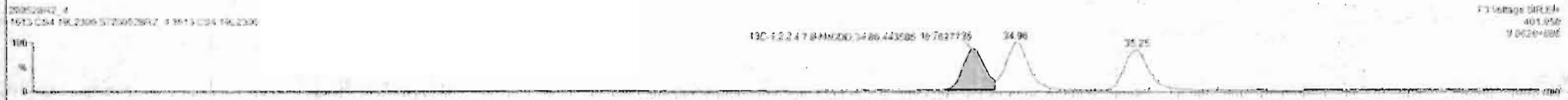
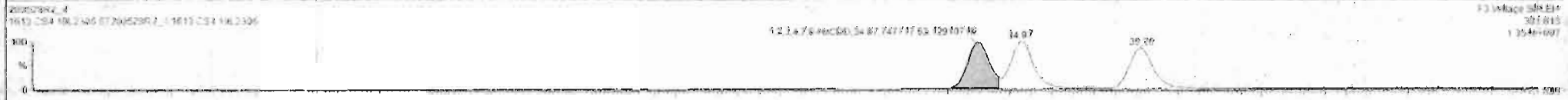


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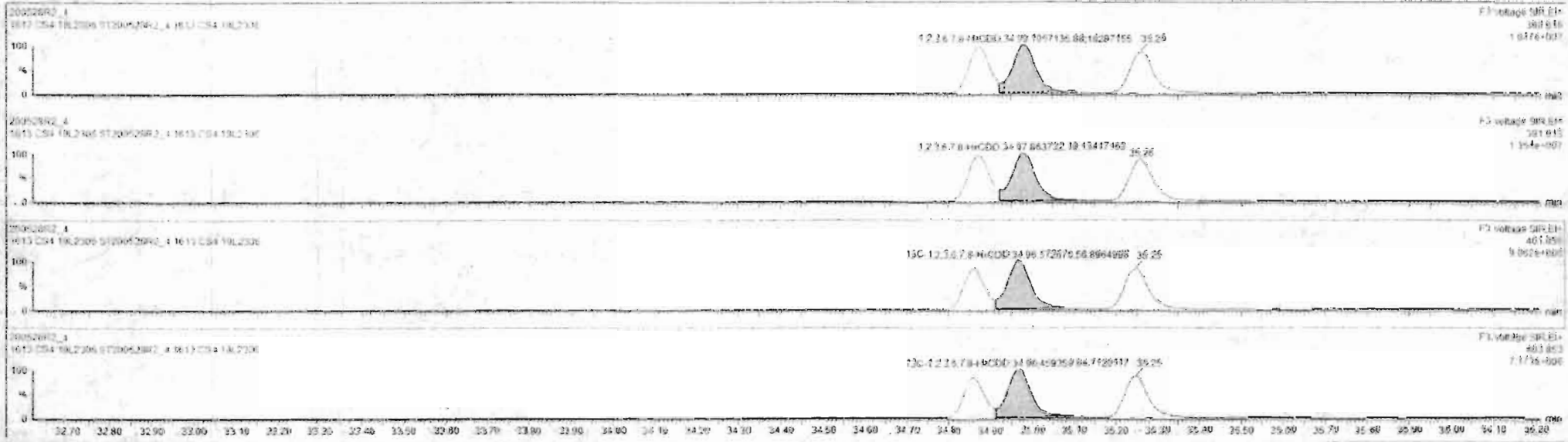




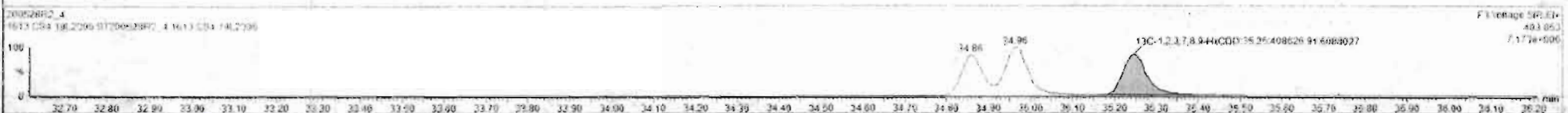
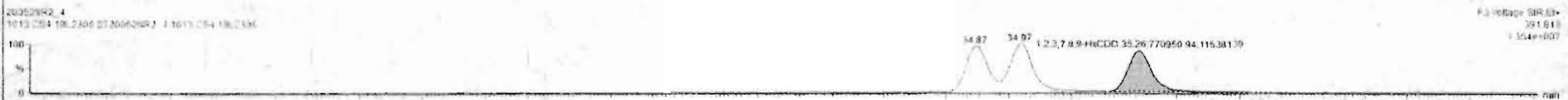
K1	Name	ResP	RA	n/y	RRF	inVol	RT	RRT	Conc	%Rec	DL	EMPC
1	1.2.3.7.8-TCDD	2.50e6	0.78	NO	0.882	1.000	26.99	1.001	41.2	101	0.129	41.2
2	1.2.3.7.8-HxCDD	2.25e6	0.83	NO	0.9091	1.000	31.51	1.000	205	102	0.0837	205
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0394	1.000	34.86	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8921	1.000	34.98	1.001	200	104	0.111	200
5	1.2.3.7.8.9-HxCDD	1.70e6	1.26	NO	0.8865	1.000	35.25	1.000	210	105	0.113	210
6	1.2.3.4.6.7.8-HxCDD	1.25e6	1.02	NO	0.8839	1.000	36.80	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.27	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	1.2.3.6-TCDF	6.52e6	0.76	NO	0.7019	1.000	25.88	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	28.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	3.50e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.223	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8812	1.000	33.12	1.001	206	103	0.203	206
13	2.3.4.6.7.8-HxCDF	2.96e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.26	NO	0.8701	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.6.7.8-HxCDF	1.43e6	0.99	NO	0.8714	1.000	37.35	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HxCDF	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8065	1.000	41.96	1.000	402	100	0.171	402
18	13C-1.2.3.7.8-TCDD	1.58e6	0.79	NO	1.1565	1.000	26.64	1.025	103	103	0.164	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.84	NO	0.8489	1.000	31.58	1.216	103	103	0.138	
20	13C-1.2.3.4.7.8-HxCDD	7.89e6	1.28	NO	0.7736	1.000	34.86	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.07e6	1.25	NO	1.0127	1.000	34.96	1.017	104	104	0.121	



#	Name	Keep	RA	RY	RP	Wt/Wt	RT	RRT	Conc	Wt/Wt	DL	EMPU
1	1.2.3.7.8-TCDF	1.50e6	0.18	NO	0.0061	1.000	36.96	1.001	41.2	101	0.124	41.1
2	1.2.3.7.8-HxCDD	2.56e6	0.43	NO	0.0041	1.000	31.51	1.000	205	102	0.0017	204
3	1.2.3.7.8-HxCDF	1.87e6	1.23	NO	1.0734	1.000	34.80	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.0020	1.000	34.96	1.001	394	104	0.119	395
5	1.2.3.7.8-HxCDF	1.19e6	1.20	NO	0.0065	1.000	35.26	1.000	210	102	0.133	210
6	1.2.3.4.6.7.8-HxCDD	1.25e6	1.02	NO	0.0033	1.000	36.60	1.000	211	104	0.218	211
7	OCDD	2.45e6	0.97	NO	0.0136	1.000	41.77	1.000	307	104	0.192	307
8	1.2.3.7.8-TCDF	4.12e6	0.76	NO	0.0140	1.000	25.88	1.001	42.0	107	0.123	42.0
9	1.2.3.7.8-HxCDF	1.19e6	1.14	NO	0.0025	1.000	30.23	1.000	203	101	0.100	203
10	1.2.3.4.7.8-HxCDF	1.08e6	1.14	NO	0.0346	1.000	31.21	1.000	204	102	0.169	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.0041	1.000	33.99	1.000	200	104	0.221	200
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.0092	1.000	34.12	1.001	206	103	0.203	206
13	1.2.3.4.6.7.8-HxCDF	2.68e6	1.19	NO	0.0041	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8-HxCDF	1.68e6	1.20	NO	0.0007	1.000	35.62	1.001	208	104	0.215	208
15	1.2.3.4.6.7.8-HxCDF	1.43e6	0.99	NO	0.0034	1.000	37.59	1.000	213	106	0.213	213
16	1.2.3.4.7.8-HxCDF	1.13e6	0.90	NO	1.0120	1.000	30.33	1.000	214	107	0.227	214
17	OCDF	2.34e6	0.97	NO	0.0254	1.000	41.96	1.000	400	100	0.171	400
18	1.2.3.7.8-TCDD	1.19e6	0.79	NO	1.1563	1.000	26.94	1.000	163	103	0.114	163
19	1.2.3.1.2.7.8-HxCDD	1.11e6	0.84	NO	0.0490	1.000	31.00	1.210	103	103	0.170	103
20	1.2.3.1.2.4.7.8-HxCDD	7.39e6	1.25	NO	0.7790	1.000	34.06	1.014	103	103	0.172	103
21	1.2.3.1.2.3.7.8-HxCDD	1.02e6	1.25	NO	1.0107	1.000	34.96	1.017	104	104	0.171	104



#	Name	Resp	RA	ny	RRF	wtdwt	RT	RRT	Comp	%Rec	DL	IMP
1	1,2,3,7,8-TCDF	0.56e6	0.76	NO	0.8863	1.000	26.56	1.091	41.7	102	0.124	41.4
2	1,2,3,7,8-PeCDD	2.36e6	0.43	NO	0.8051	1.000	31.51	1.000	205	102	0.0837	205
3	1,2,3,4,7,8-HxCDF	1.67e6	1.22	NO	1.0334	1.000	34.55	1.001	204	102	0.115	204
4	1,2,3,7,8-HxCDF	1.92e6	1.22	NO	0.9923	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDF	1.70e6	1.20	NO	0.6868	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDF	1.25e6	1.62	NO	0.8830	1.000	38.50	1.000	211	105	0.133	211
7	COCDF	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.100	397
8	1,2,3,6,7,8-PeCDF	6.53e6	0.76	NO	0.7510	1.000	25.68	1.001	42.0	101	0.123	42.0
9	1,2,3,7,8-HxCDF	2.84e6	1.54	NO	0.8920	1.000	30.21	1.000	207	101	0.119	207
10	1,2,3,7,8-HxCDF	2.06e6	1.54	NO	0.9345	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.95	1.000	202	104	0.221	202
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8292	1.000	34.12	1.001	206	103	0.203	206
13	1,2,3,6,7,8-HxCDF	2.00e6	1.19	NO	0.9241	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.68e6	1.20	NO	0.8157	1.000	35.42	1.001	203	104	0.313	203
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	COCDF	3.54e6	0.87	NO	0.8095	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8,9-PeCDD	1.56e6	0.75	NO	1.1587	1.000	28.54	1.025	103	103	0.164	
19	1,2,3,7,8,9-PeCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.139	
20	1,2,3,4,7,8-HxCDD	7.88e6	1.28	NO	0.7798	1.000	34.96	1.014	103	103	0.172	
21	1,2,3,4,6,7,8-HxCDD	1.03e6	1.35	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



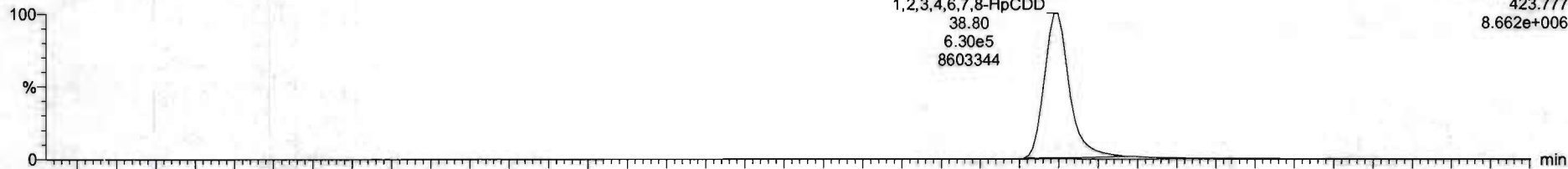
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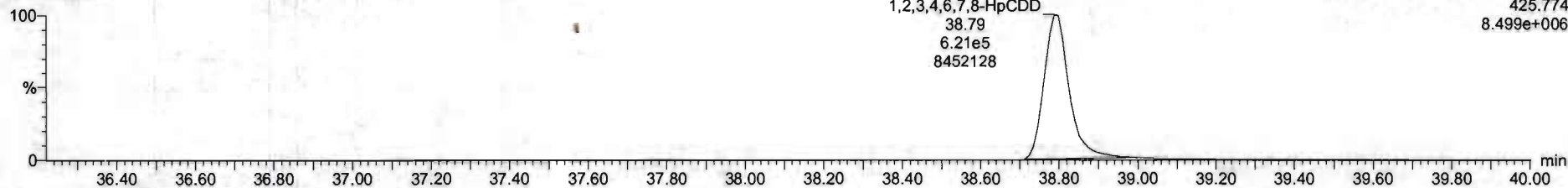
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1,2,3,4,6,7,8-HpCDD

200528R2_4

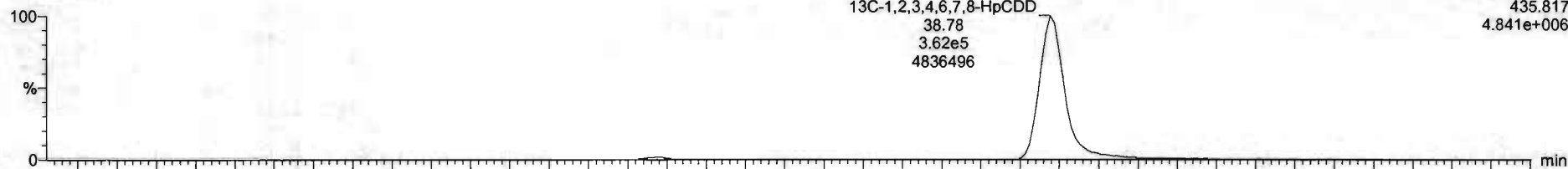


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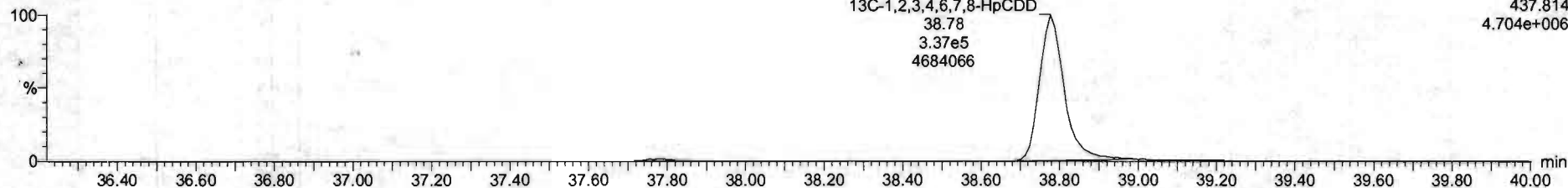


13C-1,2,3,4,6,7,8-HpCDD

200528R2_4



200528R2_4



#	Name	Resp	RA	n/y	RRF	Intval	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.50e6	0.76	NO	0.8983	1.000	26.96	1.001	41.2	103	0.124	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.83	NO	0.8081	1.000	31.51	1.000	205	102	0.5837	205
3	1,2,3,4,7,8-HxCDD	1.67e6	1.23	NO	1.0334	1.000	34.80	1.001	204	102	0.115	204
4	1,2,3,6,7,8-HxCDD	1.92e6	1.22	NO	0.8927	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDD	1.76e6	1.26	NO	0.8665	1.000	35.25	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDD	1.25e6	1.02	NO	0.8839	1.000	36.80	1.000	211	105	0.210	211
7	CDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	2,3,7,8-TCDF	6.52e6	0.76	NO	0.7510	1.000	26.68	1.001	42.0	107	0.123	42.0
9	1,2,3,7,8-HxCDF	3.94e6	1.54	NO	0.8305	1.000	30.21	1.000	203	101	0.118	203
10	1,2,3,4,7,8-PeCDF	3.06e6	1.54	NO	0.9349	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.221	208
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8062	1.000	34.12	1.001	208	103	0.203	208
13	2,3,4,6,7,8-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.42	1.001	208	104	0.313	208
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	38.32	1.000	214	107	0.227	214
17	CDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	103	103	0.164	
19	1,2,3,4,6,7,8-HpCDF	1.11e6	0.84	NO	0.8490	1.000	31.30	1.216	103	103	0.139	
20	1,2,3,4,7,8-HxCDF	7.98e6	1.28	NO	0.7790	1.000	34.90	1.014	103	103	0.172	
21	1,2,3,4,6,7,8-HpCDF	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.131	



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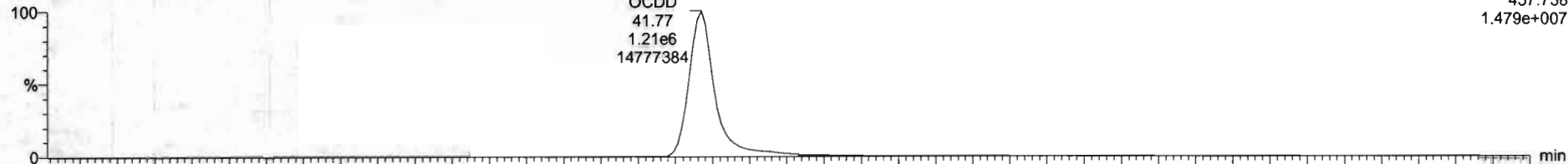
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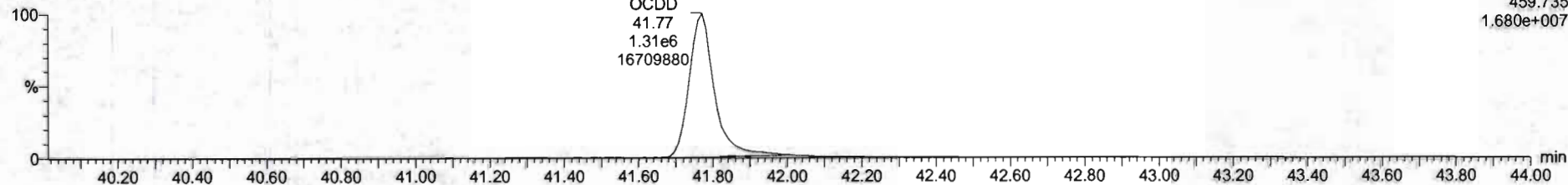
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F5: Voltage SIR, EI+
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1.479e+007

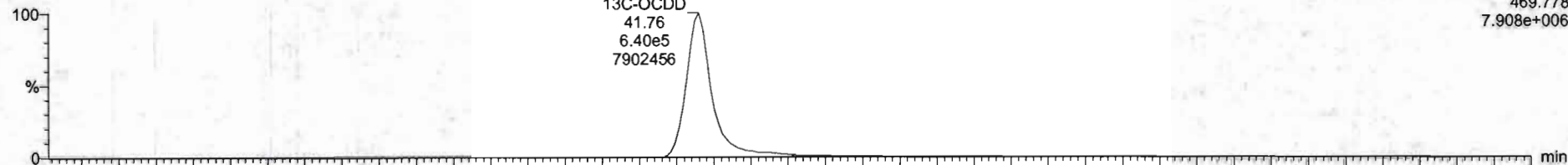
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F5: Voltage SIR, EI+
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1.680e+007

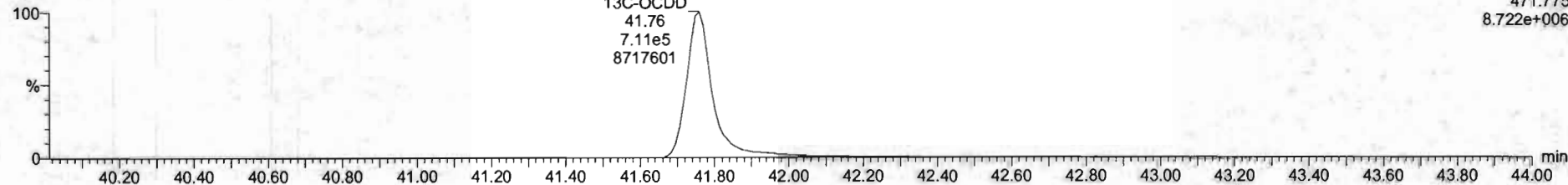
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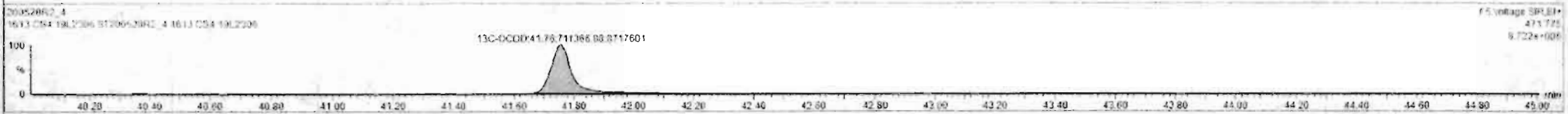
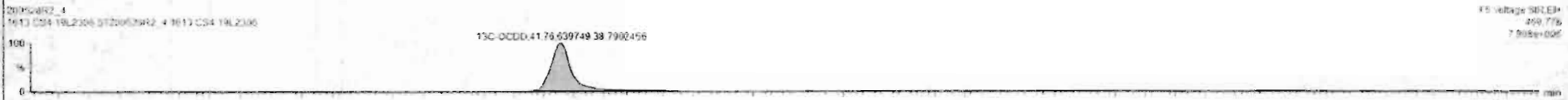
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200528R2_4



F5: Voltage SIR, EI+
471.775
8.722e+006

Sl. No.	Name	Resp	RA	inj	RRF	wt/vol	RT	NRT	Conc.	%Rec	DL	SI/PC
1	2.3.7.8-TCDD	3.56e5	0.76	NO	0.8883	1.000	28.56	1.001	41.2	101	0.134	41.2
2	1.2.3.7.8-PeCDD	2.06e5	0.63	NO	0.9051	1.000	31.01	1.000	205	102	0.6837	205
3	1.2.3.4.7.8-HxCD	1.07e5	1.23	NO	1.0334	1.000	34.80	1.001	284	102	0.115	284
4	1.2.3.6.7.8-HxCDD	1.92e5	1.22	NO	0.8923	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.70e5	1.20	NO	0.8669	1.000	35.26	1.000	210	105	0.133	210
6	1.2.3.4.7.8.9-HpCDD	1.25e5	1.02	NO	0.8639	1.000	36.80	1.000	211	105	0.115	211
7	OCDD	2.45e5	0.87	NO	0.9136	1.000	41.77	1.000	307	99.4	0.192	307
8	2.3.7.8-TCDF	4.52e5	0.76	NO	0.7510	1.000	28.56	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-PeCDF	2.94e5	1.54	NO	0.8905	1.000	30.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	1.00e5	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.100	204
11	1.2.3.4.7.8-HxCDF	1.87e5	1.18	NO	0.8545	1.000	33.99	1.000	205	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e5	1.10	NO	0.8862	1.000	34.12	1.001	206	103	0.205	206
13	1.2.3.4.7.8-HxCDF	2.00e5	1.19	NO	0.9383	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e5	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.7.8.9-HpCDF	1.43e5	0.99	NO	0.8734	1.000	37.55	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e5	0.90	NO	1.0126	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e5	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2.3.7.8-TCDD	1.58e5	0.75	NO	1.1583	1.000	28.54	1.025	103	103	0.184	
19	13C-1.2.3.7.8-PeCDD	1.11e5	0.64	NO	0.8490	1.000	31.50	1.216	103	103	0.136	
20	13C-1.2.3.4.7.8-HxCDD	7.88e5	1.28	NO	0.7790	1.000	34.86	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e5	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.131	



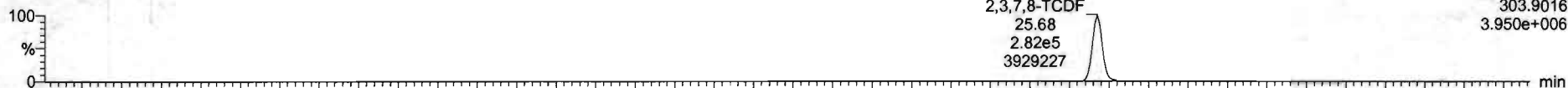
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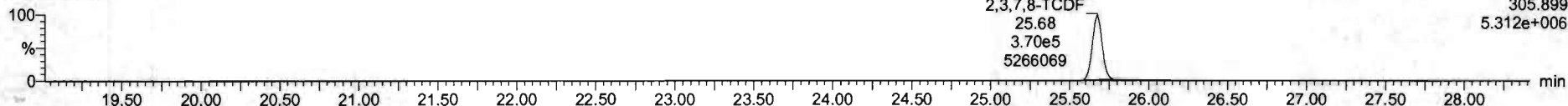
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2,3,7,8-TCDF

200528R2_4

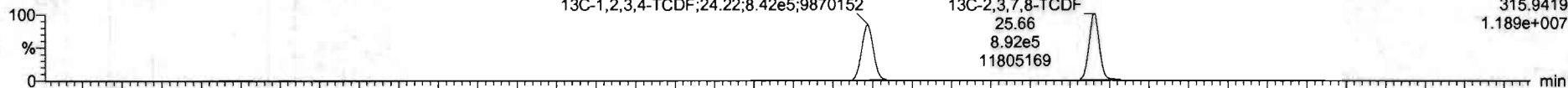


200528R2_4

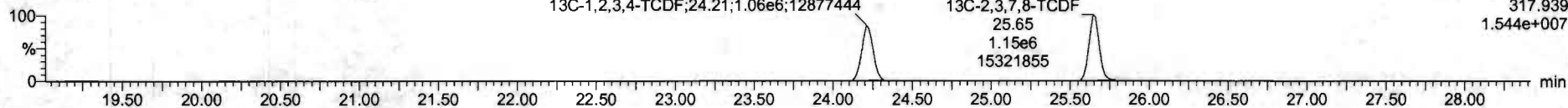


13C-2,3,7,8-TCDF

200528R2_4

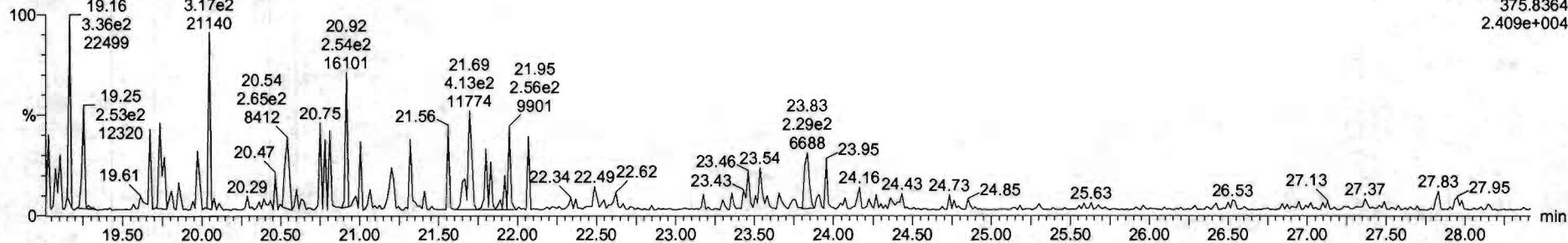


200528R2_4



DPE1

200528R2_4

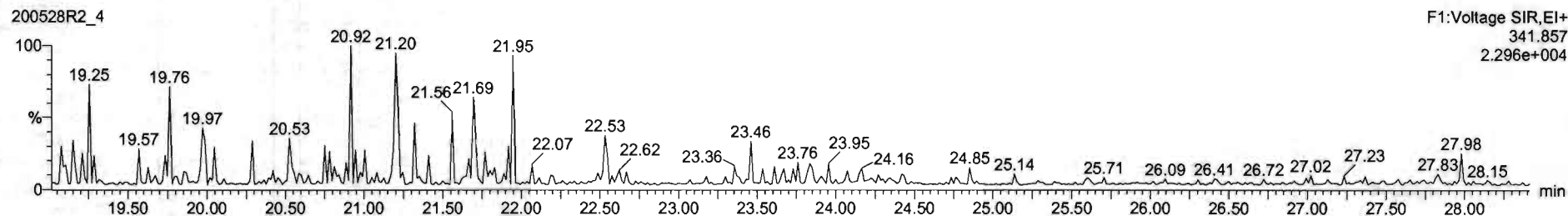
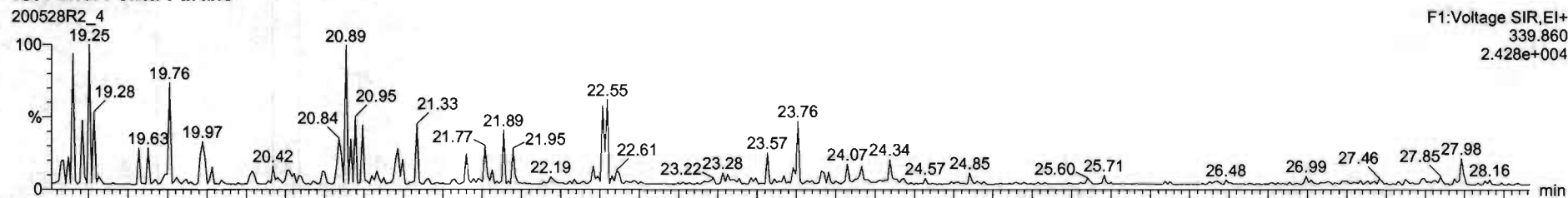


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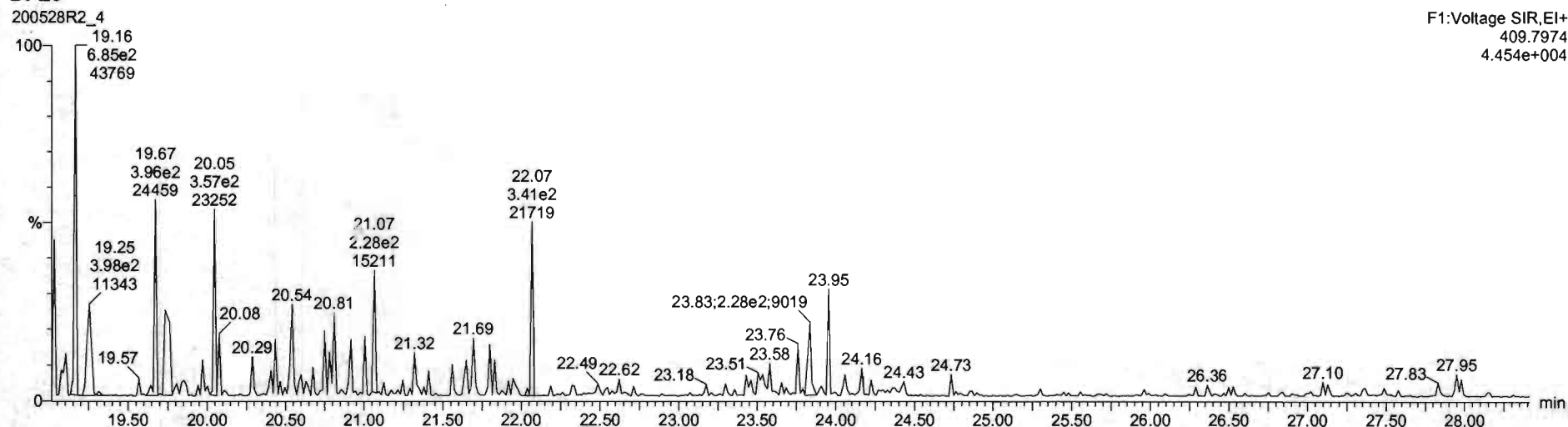
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1st Func. Penta-Furans



DPE6



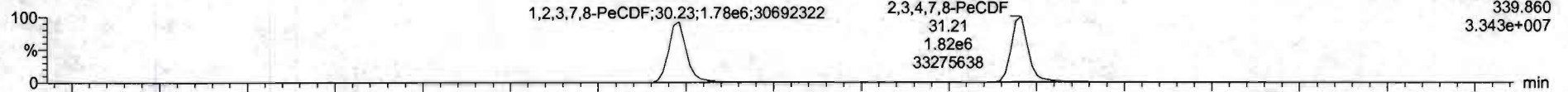
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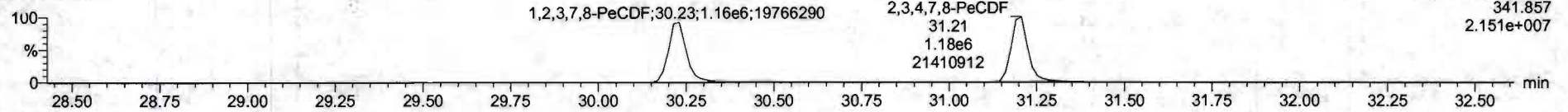
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1,2,3,7,8-PeCDF

200528R2_4

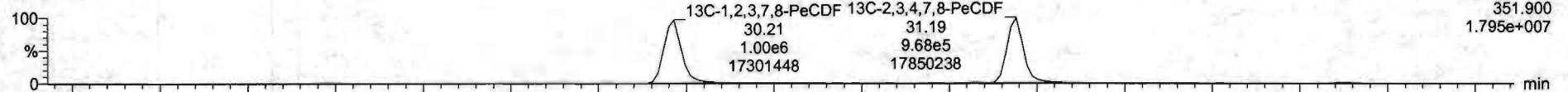


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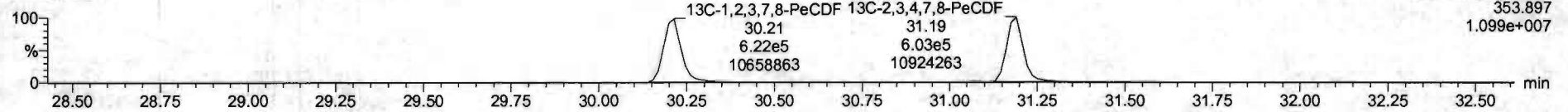


13C-1,2,3,7,8-PeCDF

200528R2_4

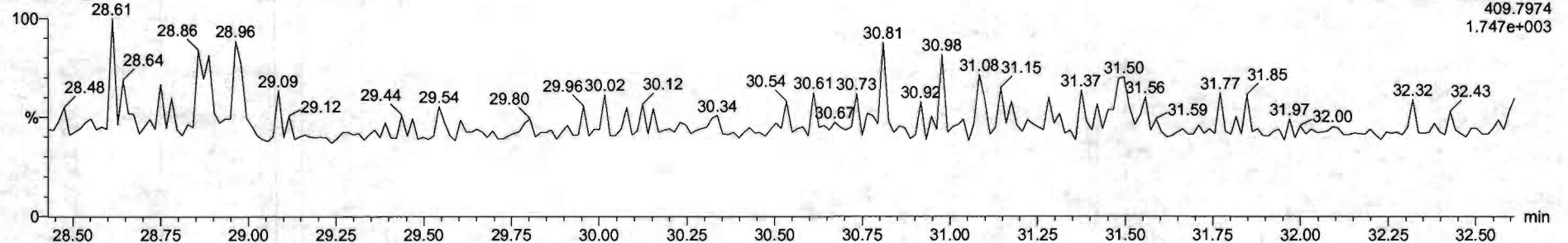


200528R2_4



DPE2

200528R2_4



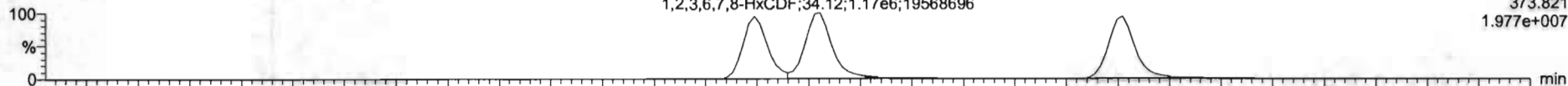
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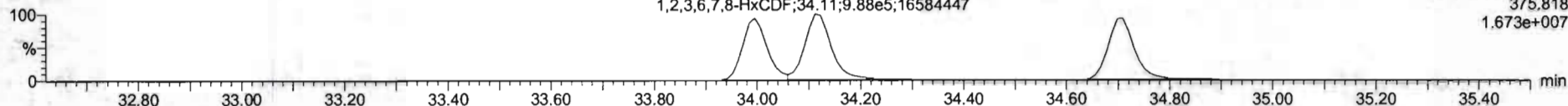
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1,2,3,4,7,8-HxCDF

200528R2_4

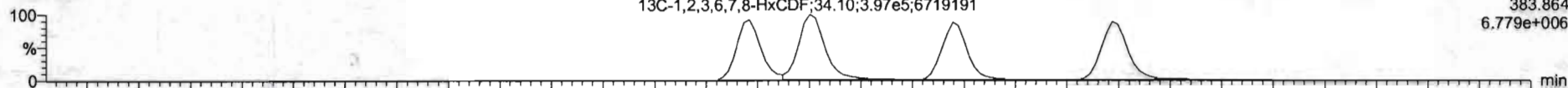


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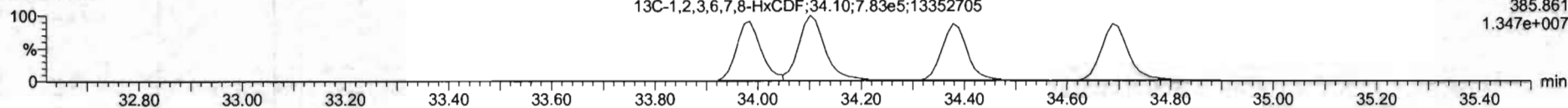


13C-1,2,3,4,7,8-HxCDF

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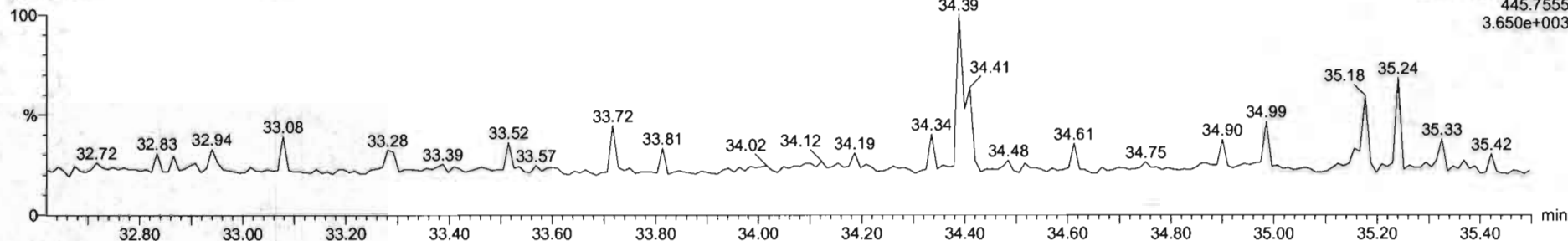


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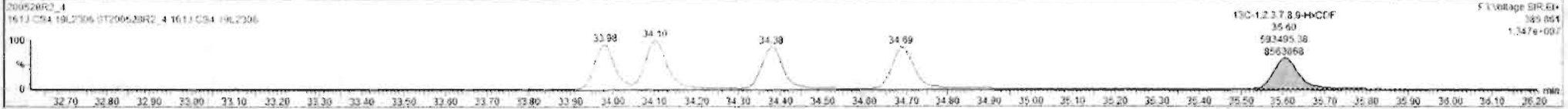
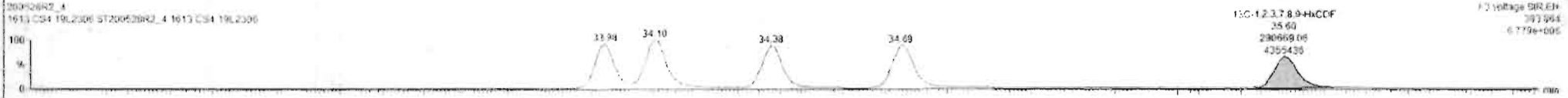
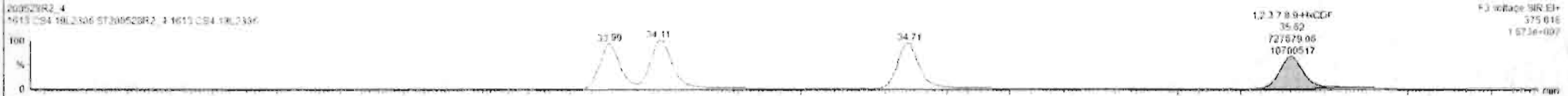


DPE3

200528R2_4



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1	1.2.3.7.8-TCDD	3.56e5	0.78	NO	0.2883	1.000	26.96	1.001	41.2	103	0.124	11.2
2	1.2.3.7.8-HxCDD	2.06e6	0.83	NO	0.9081	1.000	31.81	1.000	285	100	0.0837	209
3	1.2.3.4.7.8-HxCDD	1.87e6	1.23	NO	1.0324	1.000	34.88	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8523	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.78e6	1.20	NO	0.8865	1.000	35.26	1.008	240	105	0.133	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.8639	1.000	36.86	1.000	211	106	0.128	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.27	1.000	397	99.4	0.182	307
8	1.2.3.7.8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.68	1.001	42.6	107	0.123	42.6
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	30.23	1.000	283	101	0.118	283
10	1.2.3.4.7.8-HxCDF	3.06e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.199	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.95	1.000	268	104	0.221	268
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.8892	1.000	34.12	1.001	200	103	0.200	200
13	1.2.3.4.6.7.8-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	102	0.219	207
14	1.2.3.7.8.9-HxCDF	1.80e6	1.28	NO	0.8787	1.000	35.62	1.001	290	104	0.313	288
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8714	1.000	37.39	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.32	1.000	214	107	0.221	214
17	OCDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	403	100	0.178	402
18	13C-1.2.3.7.8-TCDD	1.50e6	0.75	NO	1.1563	1.000	26.54	1.026	103	101	0.194	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.64	NO	0.8468	1.000	31.90	1.216	193	103	0.130	
20	13C-1.2.3.4.7.8-HxCDD	7.09e5	1.28	NO	0.7790	1.000	34.96	1.014	103	102	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.98	1.013	104	104	0.121	



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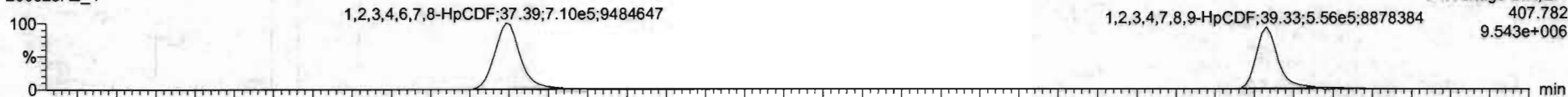
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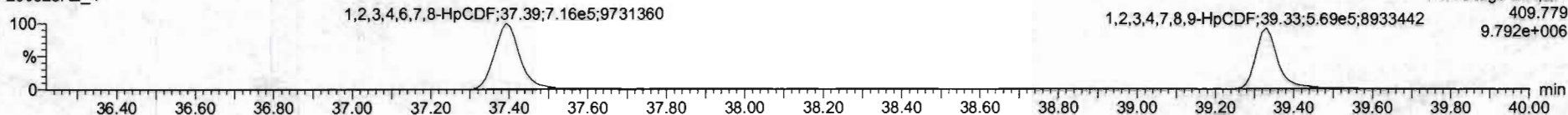
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1,2,3,4,6,7,8-HpCDF

200528R2_4

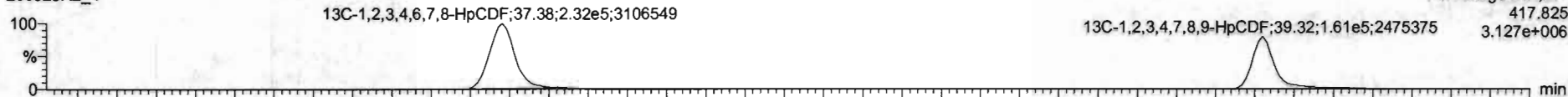


200528R2_4

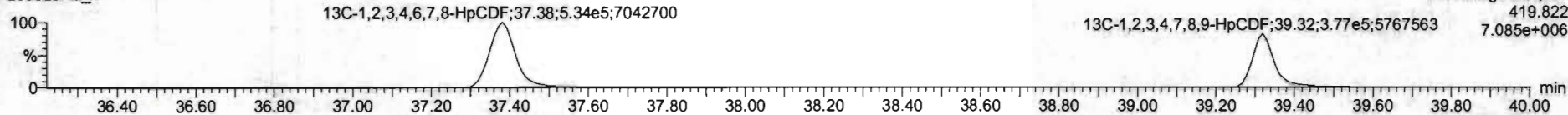


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200528R2_4

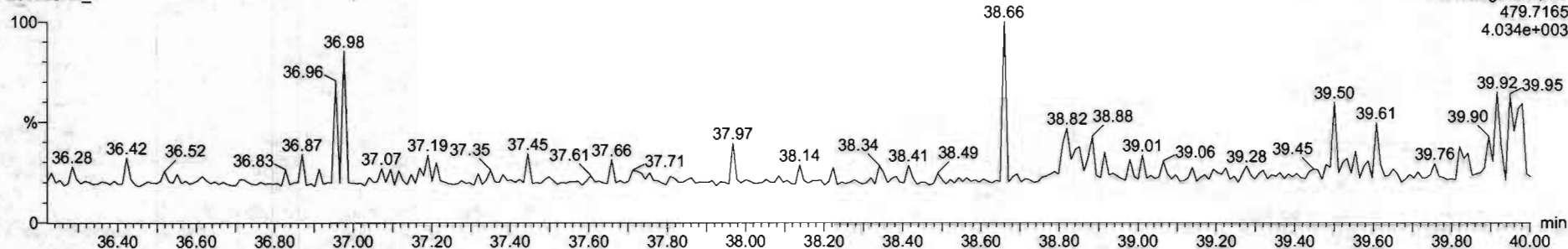


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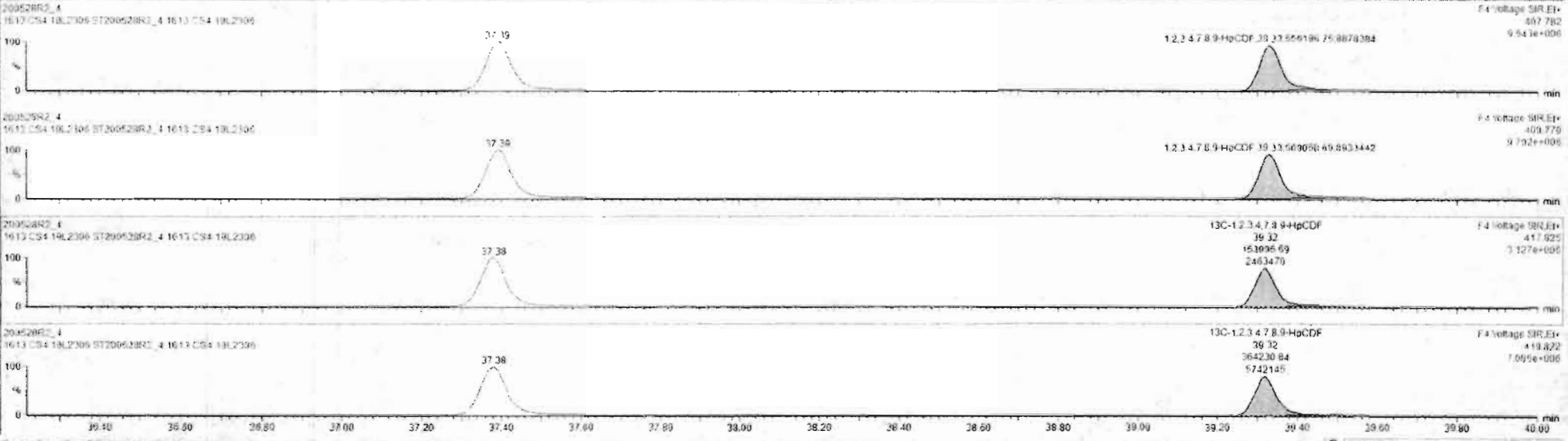


DPE4

200528R2_4



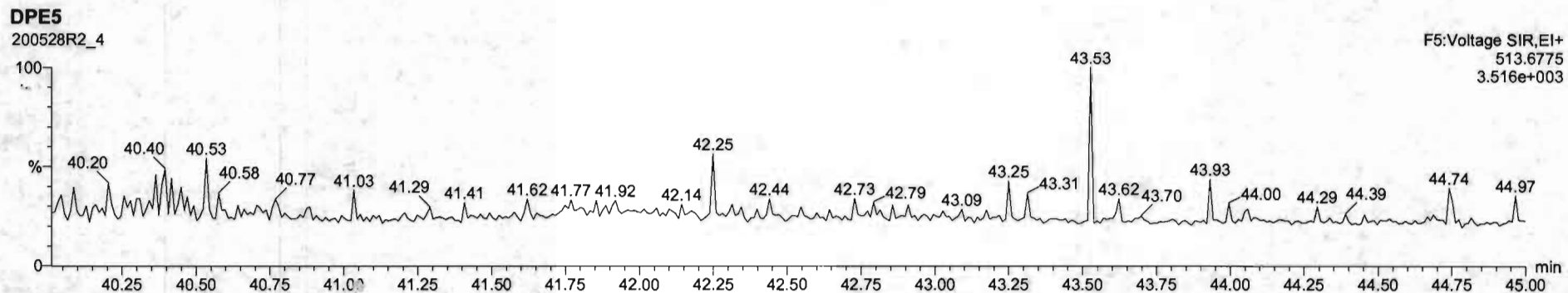
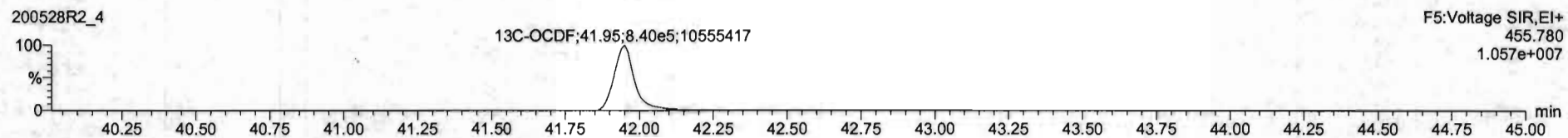
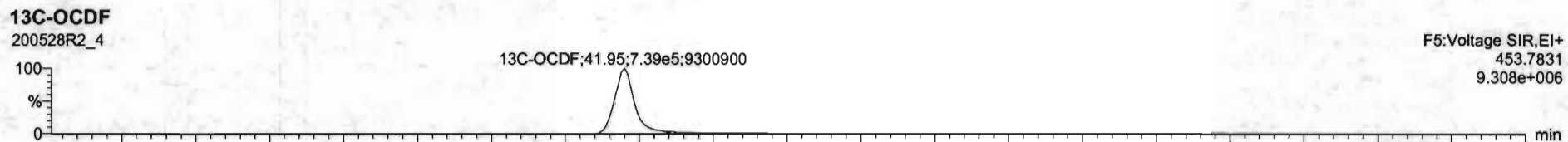
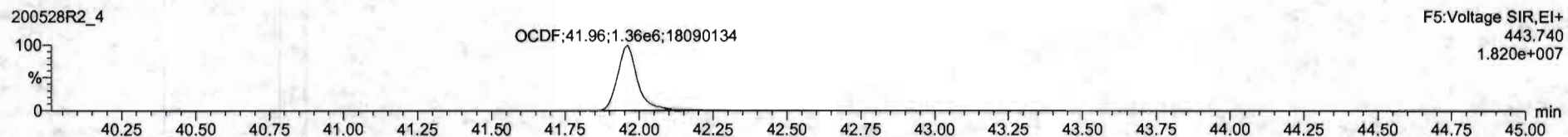
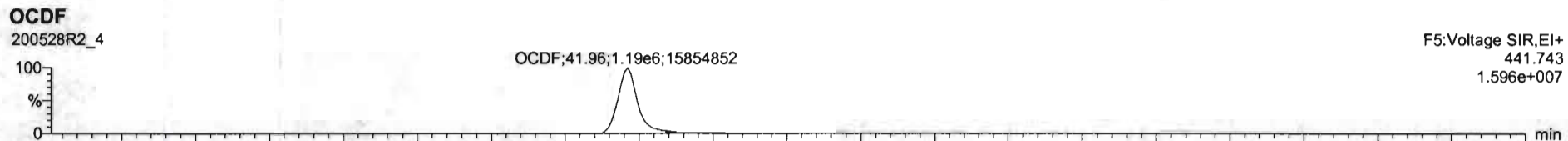
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1	2,3,7,8-TCDD	5.56e5	0.78	NO	0.8583	1.000	26.56	1.001	41.3	103	0.134	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.63	NO	0.9081	1.000	31.51	1.000	205	102	0.0837	205
3	1,2,3,4,7,8-HxCDD	1.87e6	1.23	NO	1.0334	1.000	34.86	1.001	204	102	0.115	204
4	1,2,3,8,7,8-HxCDD	1.82e6	1.22	NO	0.8521	1.000	34.90	1.001	200	104	0.111	200
5	1,2,3,7,9,8-HxCDD	1.70e6	1.20	NO	0.8963	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HxCDD	1.25e6	1.02	NO	0.8633	1.000	36.90	1.000	211	105	0.219	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.190	397
8	2,3,7,8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.66	1.001	42.6	107	0.123	42.2
9	1,2,3,7,8-PeCDF	2.54e6	1.54	NO	0.8925	1.000	30.23	1.000	203	101	0.110	203
10	1,2,3,4,7,8-HxCDF	3.00e6	1.54	NO	0.9345	1.000	31.21	1.000	204	107	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.99	1.000	203	104	0.221	206
12	1,2,3,6,7,8-HxCDF	2.16e6	1.18	NO	0.8867	1.000	34.12	1.001	206	103	0.203	206
13	2,3,4,6,7,8-HxCDF	2.06e6	1.19	NO	0.9341	1.000	34.71	1.001	207	107	0.219	207
14	1,2,3,7,9,8-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.213	208
15	1,2,3,4,6,7,8-HxCDF	1.43e6	0.95	NO	0.8734	1.000	37.35	1.000	215	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.15e6	0.60	NO	1.0128	1.000	39.33	1.000	214	107	5.327	214
17	OCDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2,3,7,8-TCDD	1.54e6	0.75	NO	1.1563	1.000	26.54	1.025	103	103	0.164	
19	13C-1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.138	
20	13C-1,2,3,4,7,8-HxCDD	7.89e5	1.26	NO	0.7790	1.000	34.86	1.014	103	103	0.102	
21	13C-1,2,3,6,7,8-HxCDD	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.121	



Dataset: Untitled

Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
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Name: 200528R2_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306



#	Name	Resp	RA	ntf	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	1.2.3.7.5-TCDD	1.50e5	0.78	NO	0.8863	1.000	26.56	1.001	41.2	101	0.124	41.2
2	1.2.3.7.5-PeCDD	2.06e6	0.83	NO	0.9081	1.000	31.51	1.000	205	102	0.0827	205
3	1.2.3.4.7.8-HxCDD	1.07e6	1.23	NO	1.0334	1.000	34.85	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDF	1.92e6	1.22	NO	0.9521	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.76e6	1.20	NO	0.9265	1.000	35.26	1.000	210	105	0.123	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.9633	1.000	36.40	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.102	397
8	1.2.3.7.8-TCDF	0.52e5	0.76	NO	0.7510	1.000	25.05	1.001	42.0	107	0.127	42.0
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.8925	1.000	36.21	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	2.00e6	1.54	NO	0.9349	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8945	1.000	32.99	1.000	208	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8852	1.000	34.12	1.001	206	103	0.203	206
13	1.2.3.4.6.7.8-HpCDF	2.08e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.20	NO	0.8757	1.000	35.42	1.001	205	104	0.213	205
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.96	NO	0.8734	1.000	37.35	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.93	NO	1.0120	1.000	39.32	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8055	1.000	41.96	1.000	402	100	0.171	402
18	1.2.3.4.7.8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	102	101	0.164	
19	1.2.3.4.7.8-PeCDF	0.11e6	0.84	NO	0.8496	1.000	31.50	1.216	103	103	0.130	
20	1.2.3.4.7.8-HxCDF	7.89e6	1.20	NO	0.7750	1.000	34.96	1.214	103	103	0.172	
21	1.2.3.4.7.8.9-HpCDF	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.121	

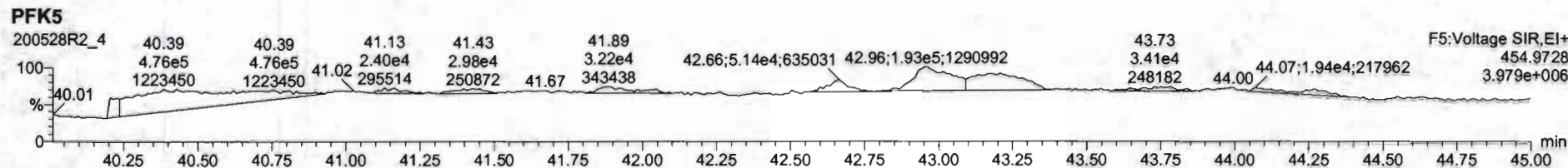
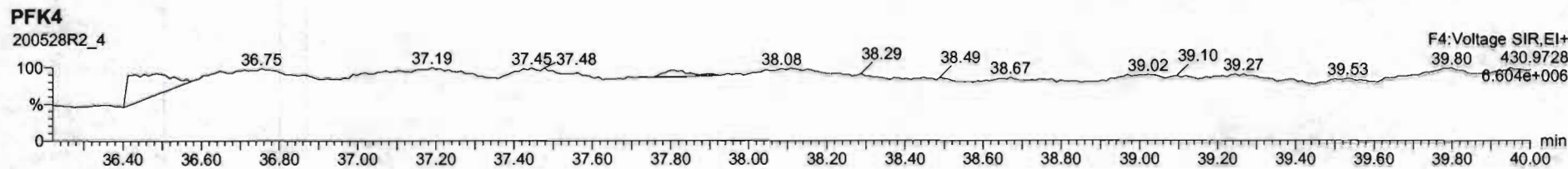
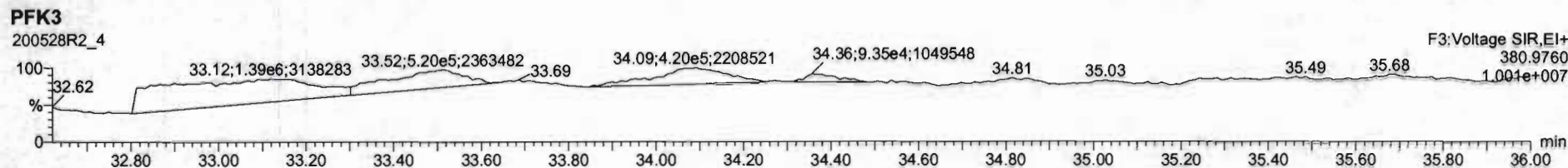
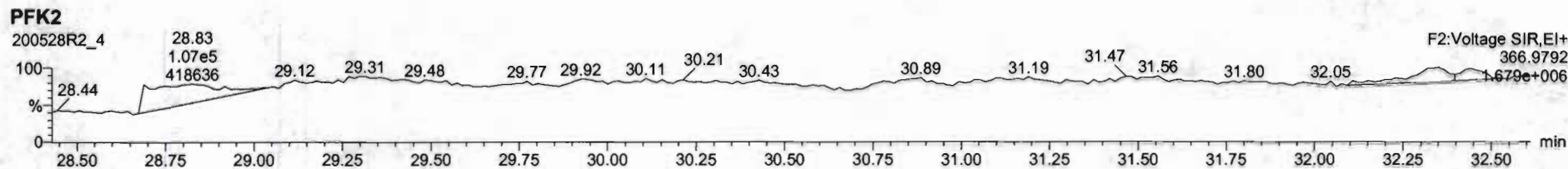
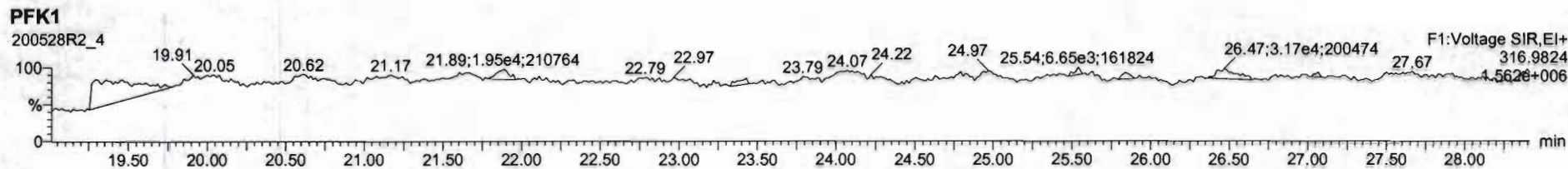


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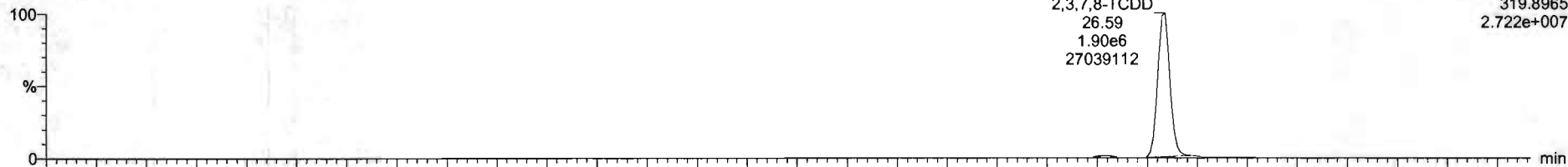
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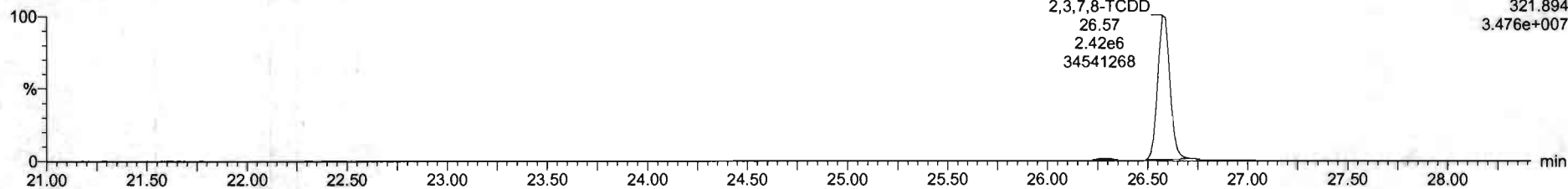
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2,3,7,8-TCDD

200528R2_5

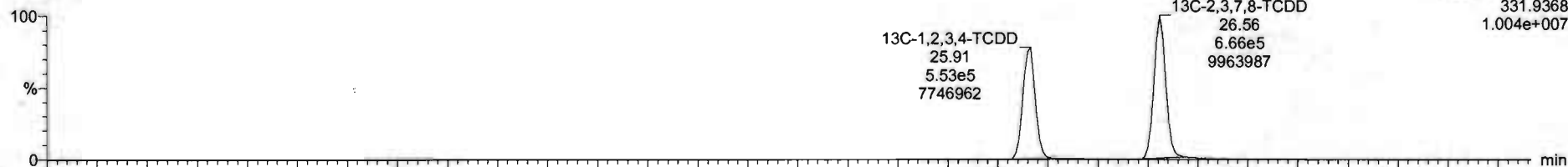


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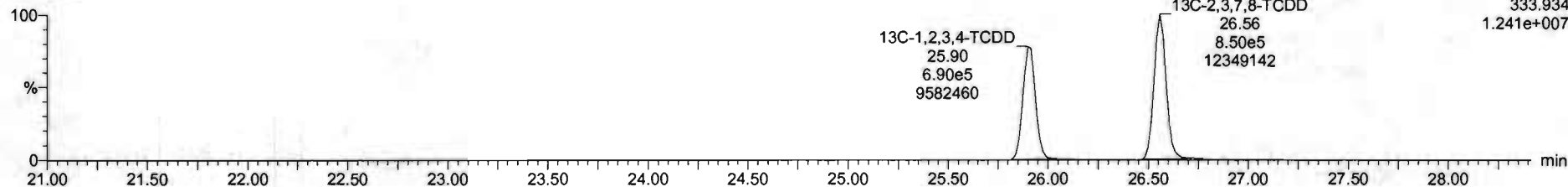


13C-2,3,7,8-TCDD

200528R2_5



200528R2_5



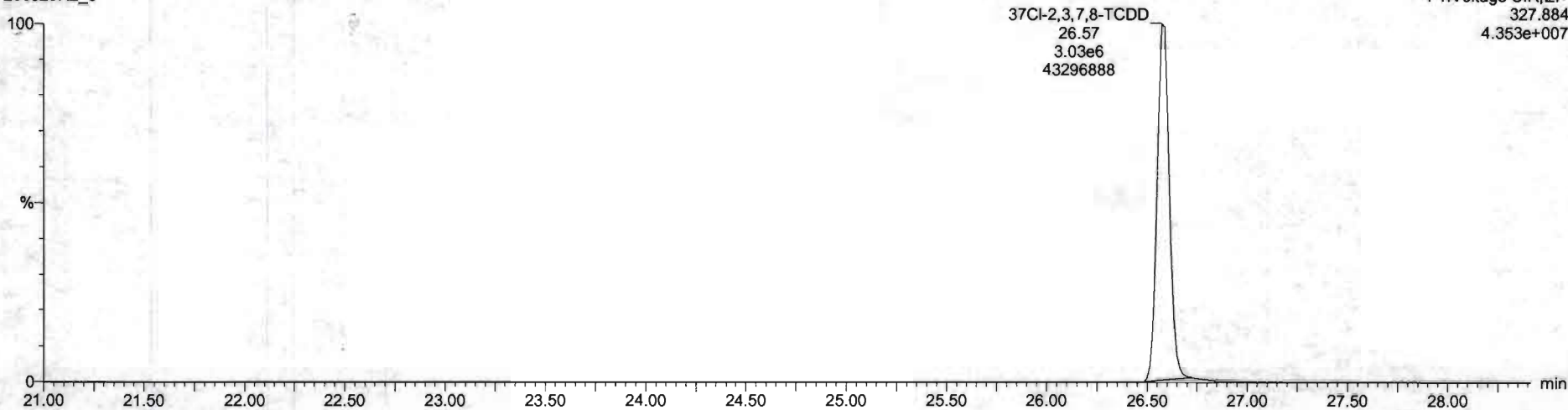
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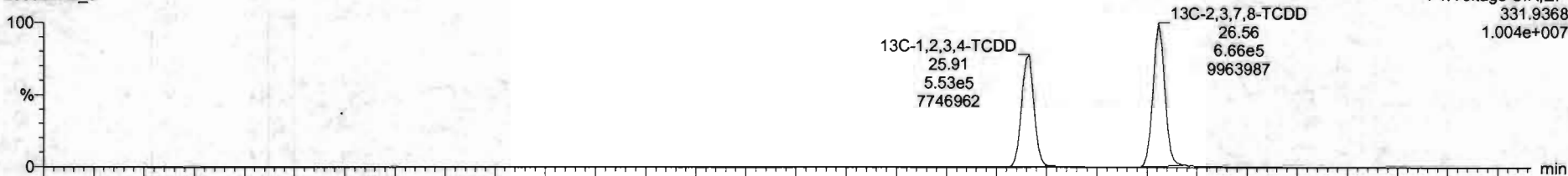
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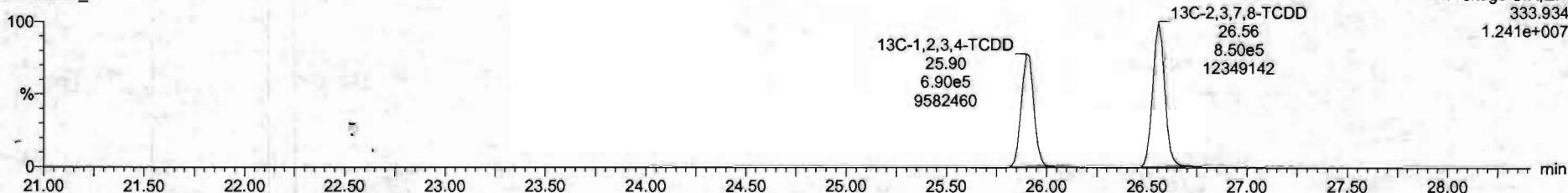


13C-1,2,3,4-TCDD

200528R2_5



200528R2_5



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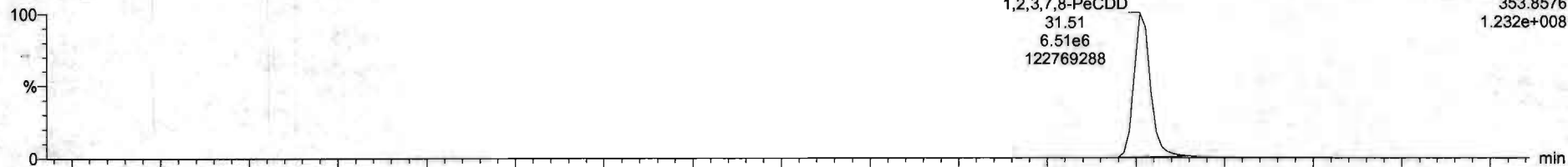
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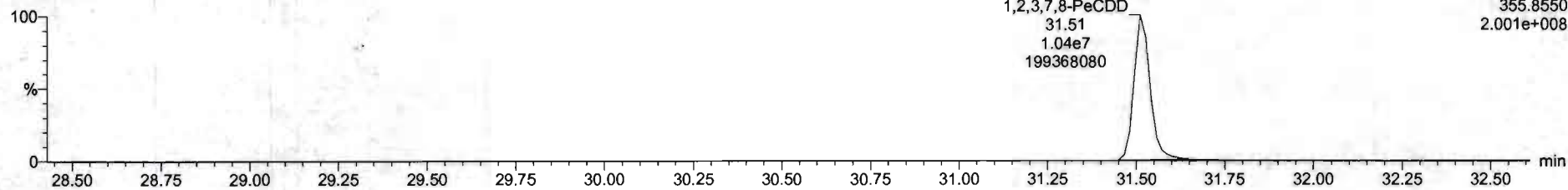
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1,2,3,7,8-PeCDD

200528R2_5

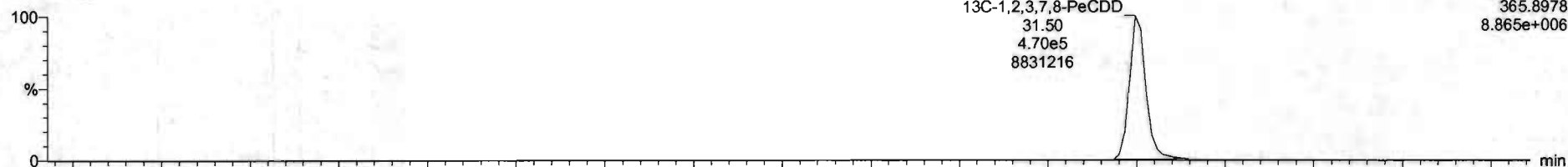


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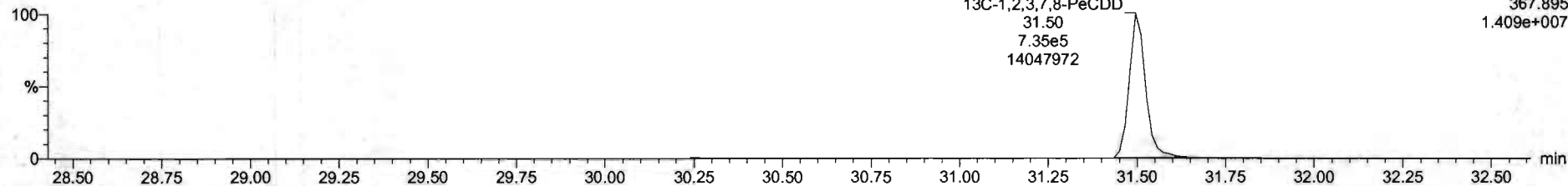


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200528R2_5



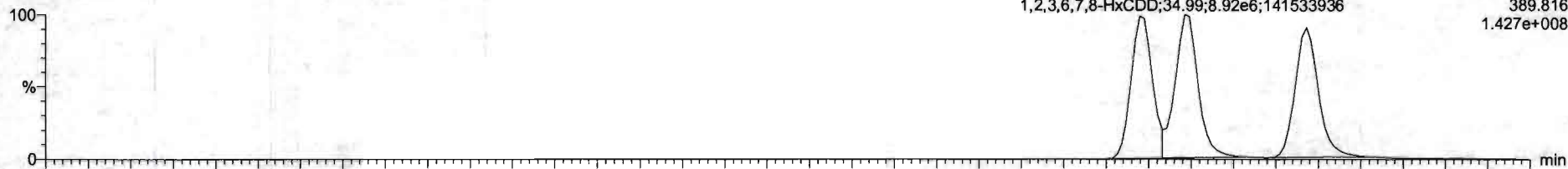
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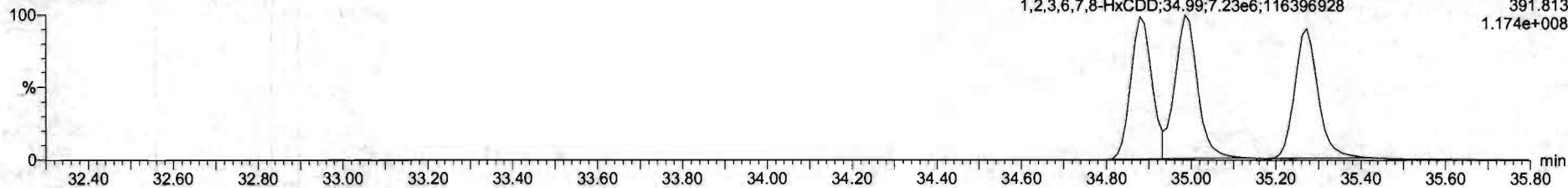
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1,2,3,4,7,8-HxCDD

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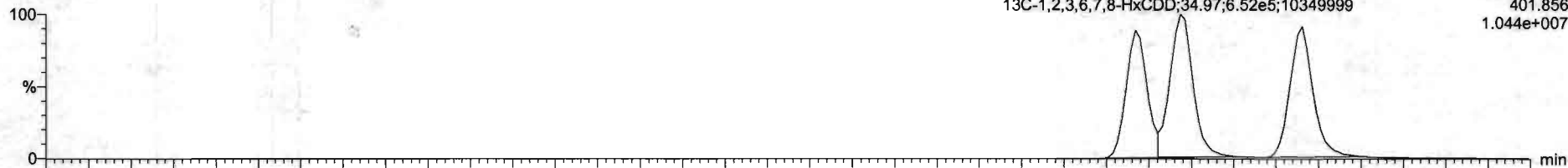


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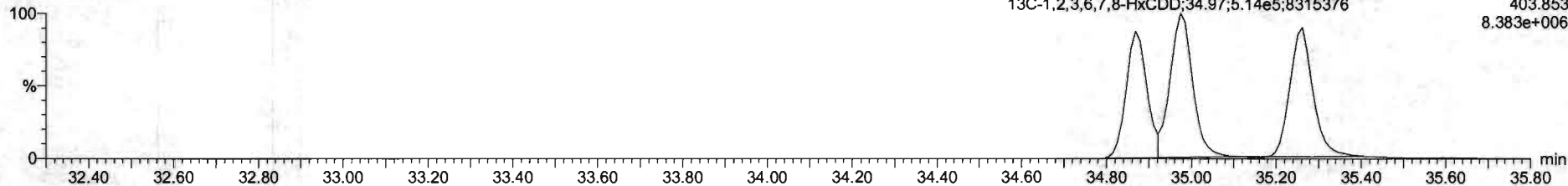


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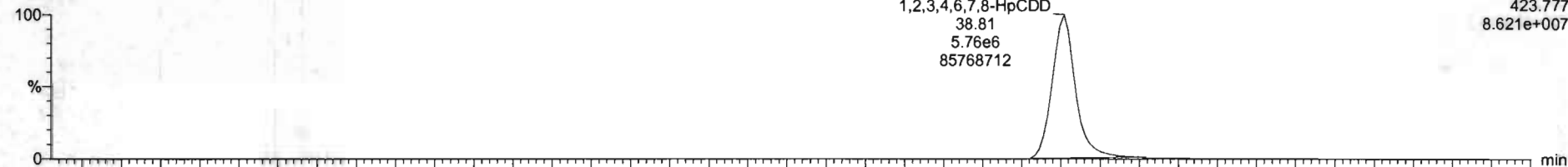
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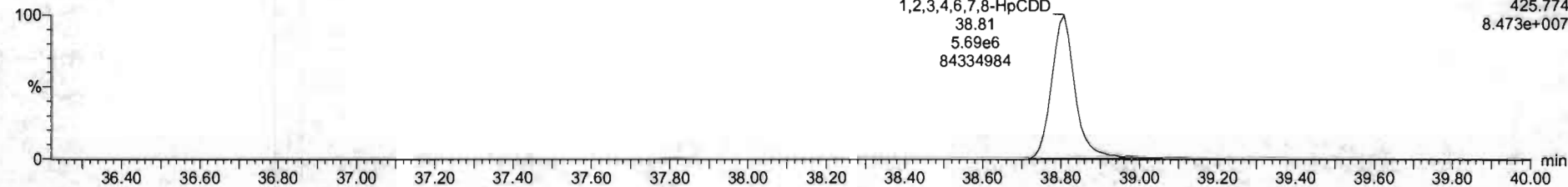
1,2,3,4,6,7,8-HpCDD

200528R2_5



F4:Voltage SIR,EI+
423.777
8.621e+007

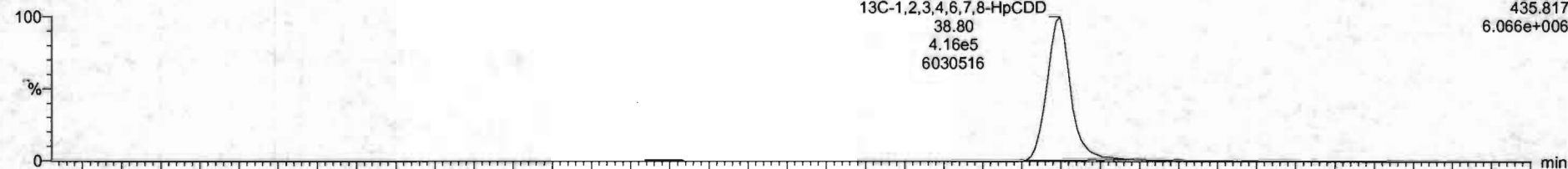
200528R2_5



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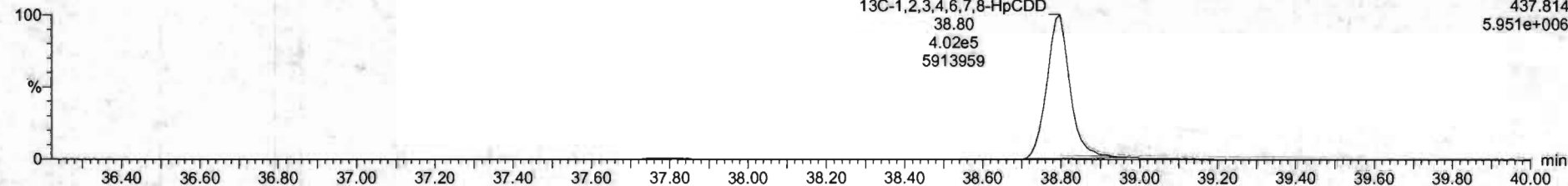
13C-1,2,3,4,6,7,8-HpCDD

200528R2_5



F4:Voltage SIR,EI+
435.817
6.066e+006

200528R2_5



F4:Voltage SIR,EI+
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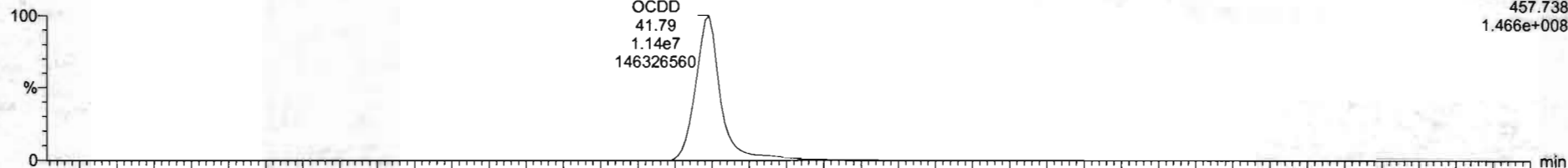
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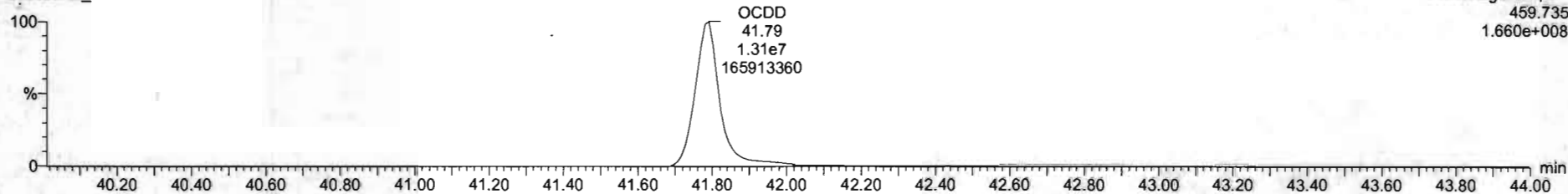
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OCDD

200528R2_5

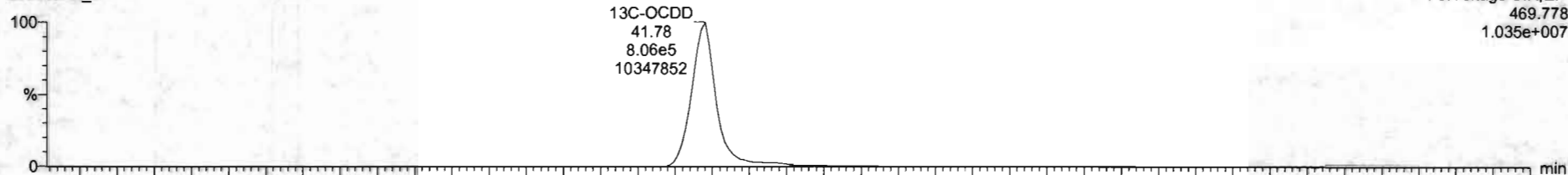


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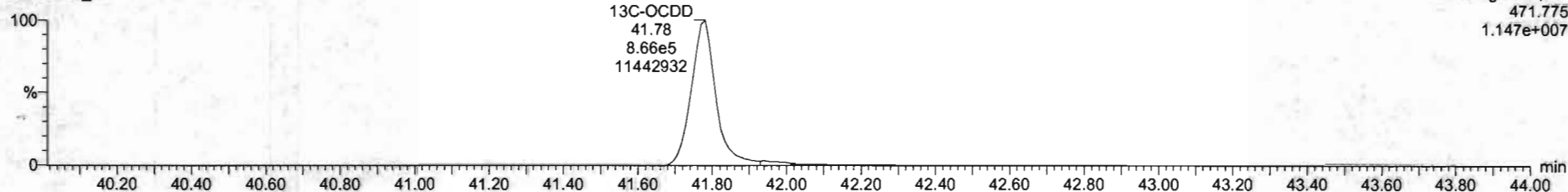


13C-OCDD

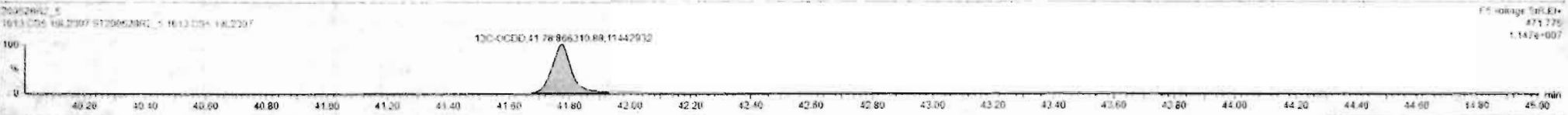
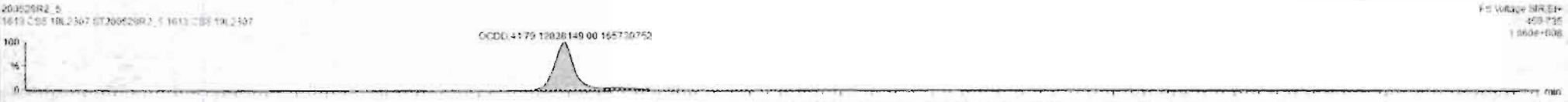
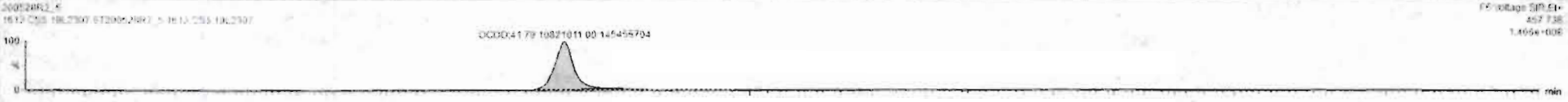
200528R2_5



200528R2_5



N	Name	Resp	RA	np	PRF	wt/vol	IT	NRT	Comp	%Rec	DL	ENPL
1	2.3.7.8-TCD0	4.52e7	0.76	NO	0.6883	1.000	26.95	1.001	321	107	0.0511	321
2	1.2.3.7.8-FluCD	1.58e7	0.63	NO	0.9051	1.000	31.61	1.000	1550	103	0.124	1550
3	1.2.3.4.7.8-HuCD	1.47e7	1.23	NO	1.0334	1.000	34.08	1.000	1520	101	0.130	1520
4	1.2.3.8.7.8-HuCD	1.61e7	1.23	NO	0.9523	1.000	34.99	1.000	1550	103	0.142	1550
5	1.2.3.7.8.9-HuCD	1.47e7	1.23	NO	0.9265	1.000	35.27	1.000	1570	104	0.107	1570
6	1.2.3.4.6.7.8-HuCD	1.15e7	1.01	NO	0.8639	1.000	36.61	1.000	1620	105	0.161	1620
7	OCDD	2.37e7	0.84	NO	0.9138	1.000	41.79	1.000	3100	103	0.379	3100
8	2.3.7.6-TCD	0.00e0	0.75	NO	0.7510	1.000	45.65	1.001	320	105	0.0600	320
9	1.2.3.7.8-PeCDF	2.38e7	1.14	NO	0.8925	1.000	40.23	1.000	1570	101	0.231	1570
10	2.3.4.7.8-PeCDF	0.40e7	1.53	NO	0.9348	1.000	41.21	1.000	1550	101	0.213	1550
11	1.2.3.4.7.8-HuCDF	1.61e7	1.19	NO	0.8644	1.000	44.01	1.000	1590	106	0.103	1590
12	1.2.3.6.7.8-HuCDF	1.06e7	1.19	NO	0.8092	1.000	44.72	1.000	1530	101	0.0927	1530
13	2.3.4.6.7.8-HuCDF	1.72e7	1.19	NO	0.9341	1.000	44.72	1.001	1560	104	0.152	1560
14	1.2.3.7.8.9-HuCDF	1.49e7	1.26	NO	0.6707	1.000	45.83	1.000	1560	106	0.145	1560
15	1.2.3.4.6.7.8-HuCDF	1.28e7	1.09	NO	0.8734	1.000	47.40	1.000	1560	104	0.303	1560
16	1.2.3.4.7.8.9-HuCDF	1.05e7	1.00	NO	1.0172	1.000	48.34	1.000	1620	103	0.215	1620
17	OCDF	2.38e7	0.85	NO	0.8085	1.000	41.95	1.000	3090	101	0.250	3090
18	13C-2.3.7.8-TCD	1.52e7	0.76	NO	1.1583	1.000	26.96	1.026	100	106	0.0720	
19	13C-1.2.3.7.8-PeCDD	1.27e6	0.64	NO	0.8499	1.000	31.58	1.215	114	114	0.130	
20	13C-1.2.3.4.7.8-PeCDD	6.34e5	1.28	NO	0.7750	1.000	34.97	1.014	110	110	0.191	
21	13C-1.2.3.6.7.8-PeCDD	1.17e6	1.27	NO	1.0167	1.000	34.97	1.017	113	113	0.146	



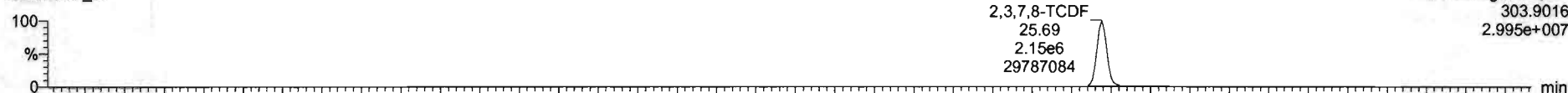
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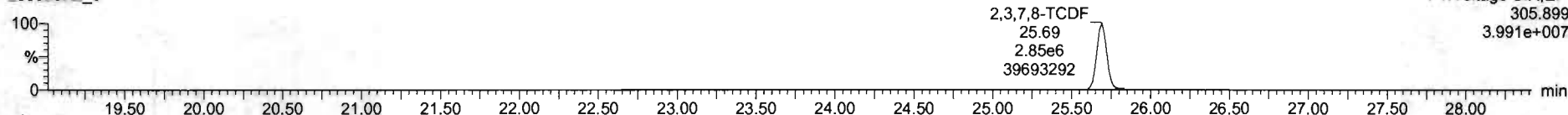
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2,3,7,8-TCDF

200528R2_5

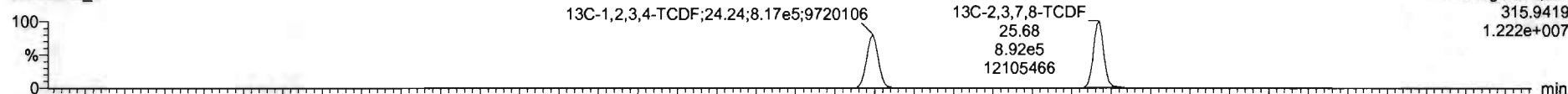


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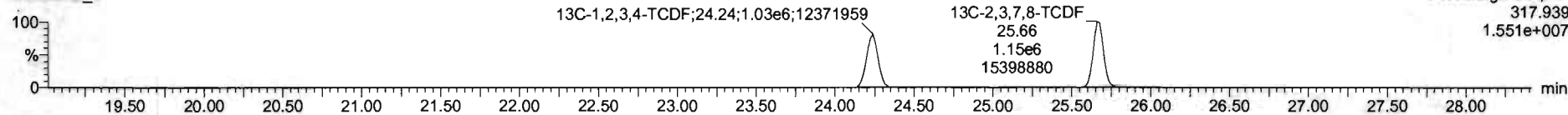


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200528R2_5

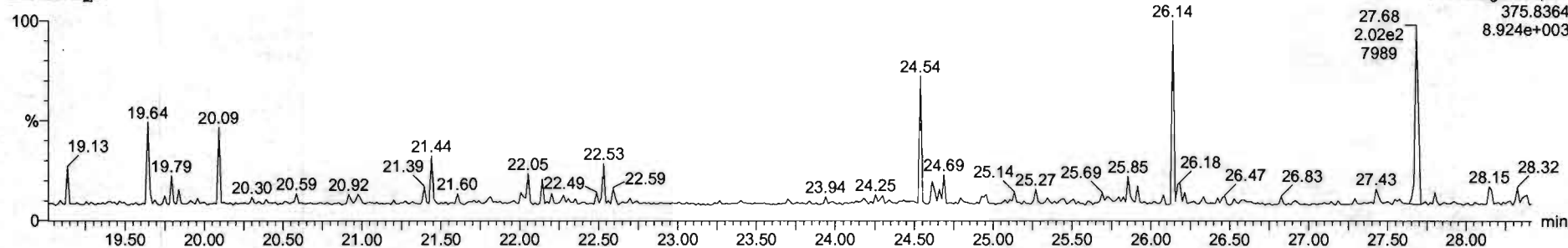


200528R2_5



DPE1

200528R2_5



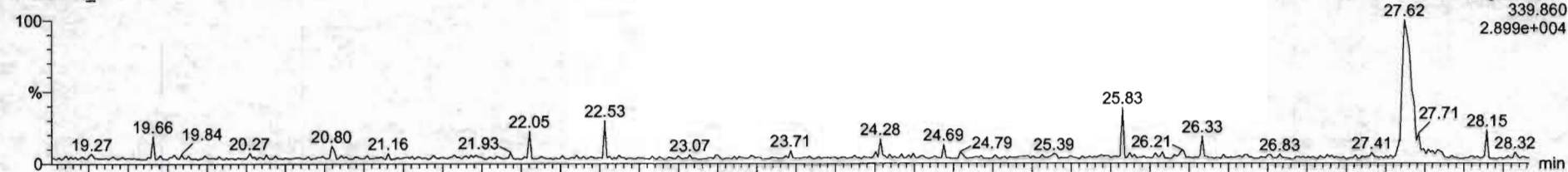
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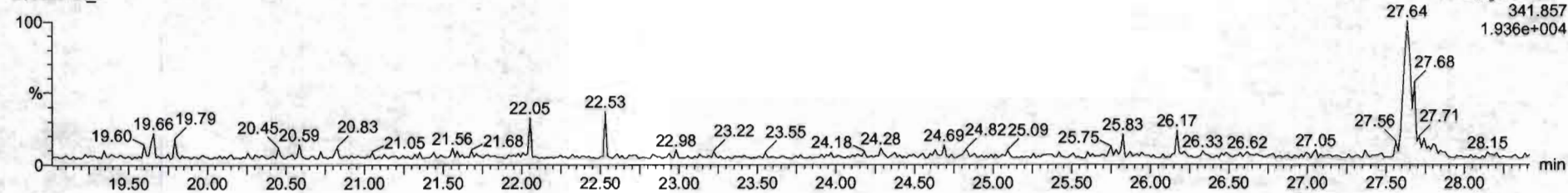
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200528R2_5

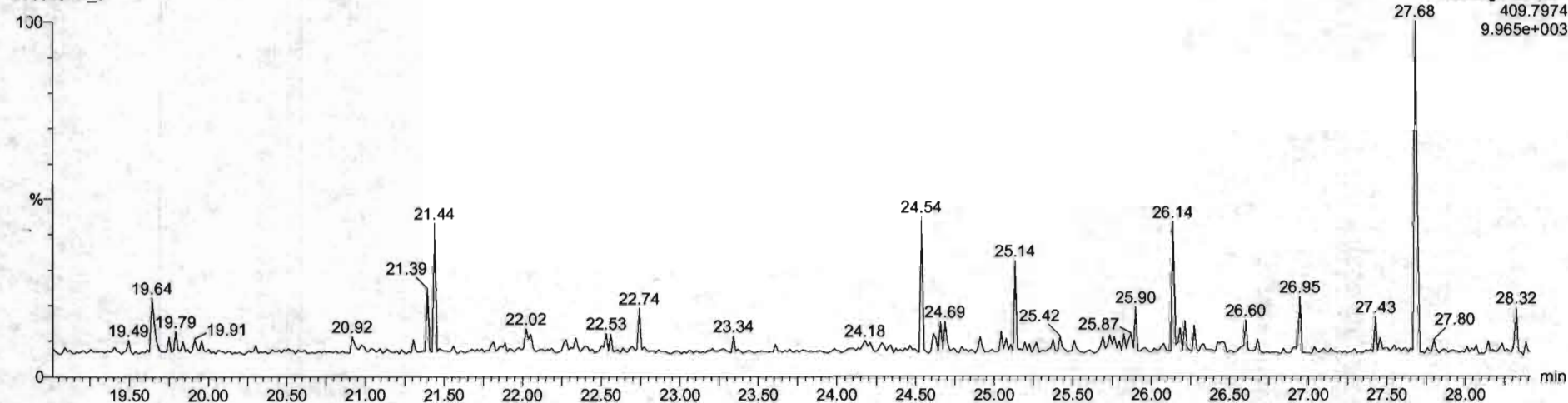


200528R2_5



DPE6

200528R2_5



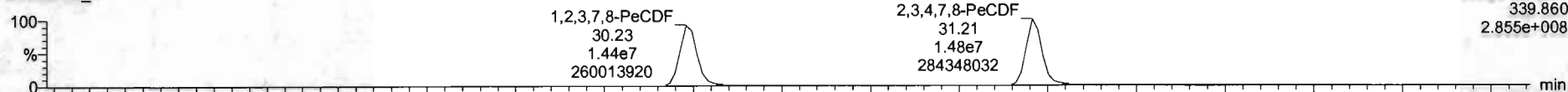
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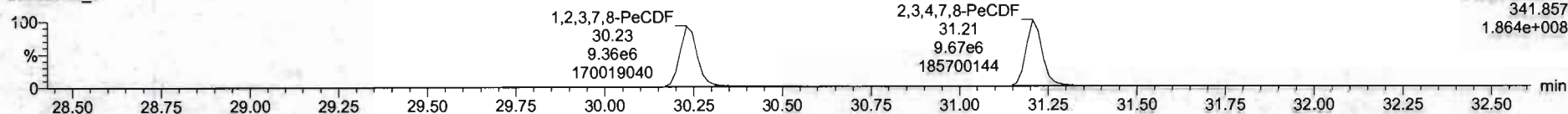
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1,2,3,7,8-PeCDF

200528R2_5

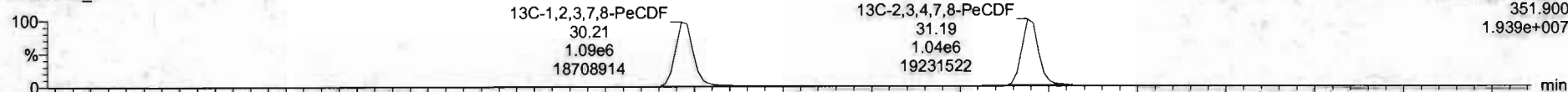


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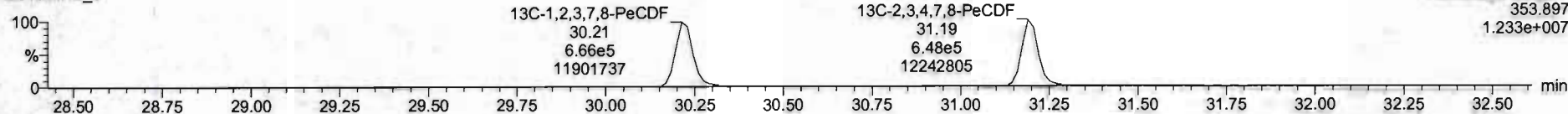


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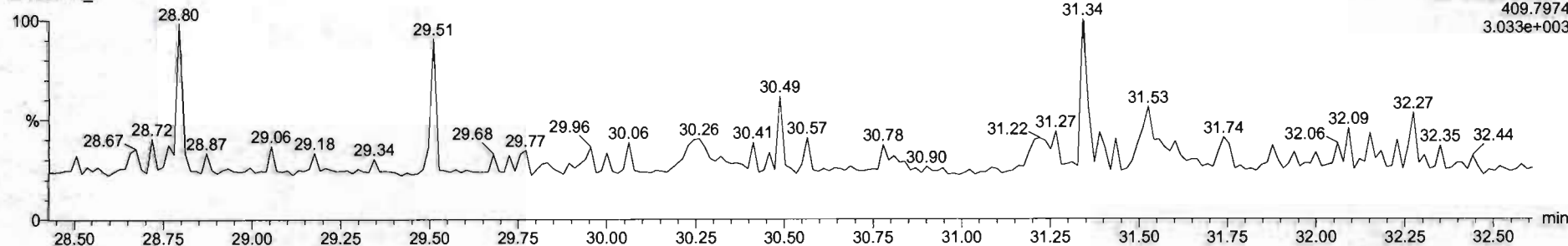


200528R2_5



DPE2

200528R2_5



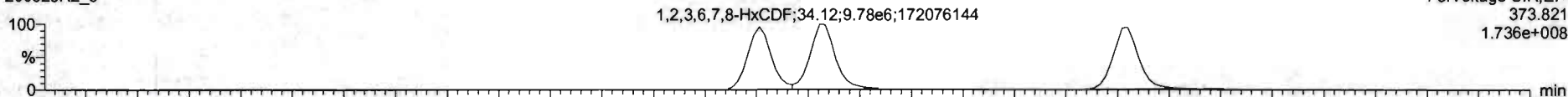
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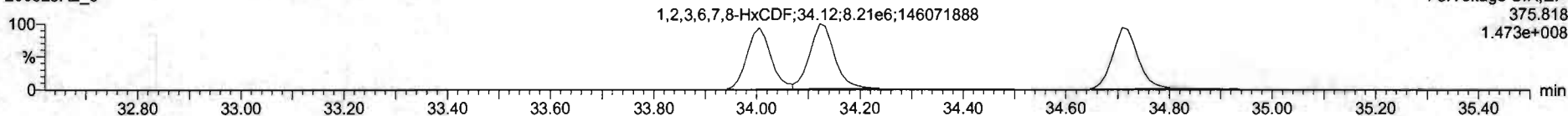
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1,2,3,4,7,8-HxCDF

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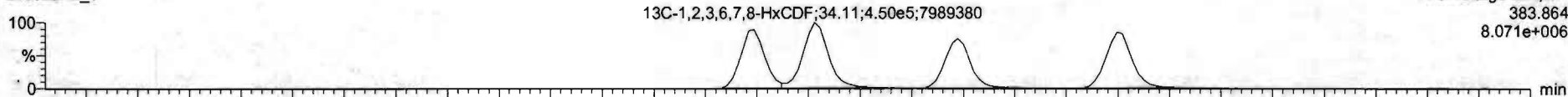


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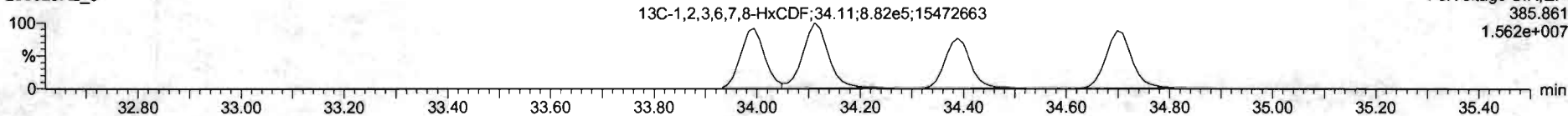


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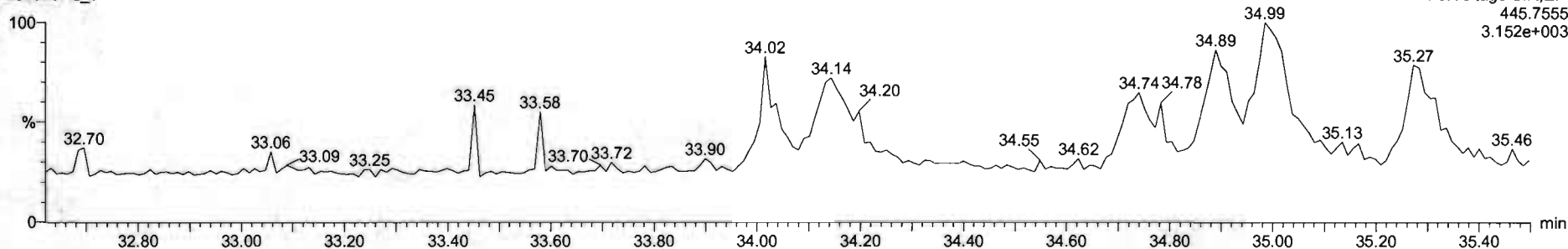


200528R2_5



DPE3

200528R2_5



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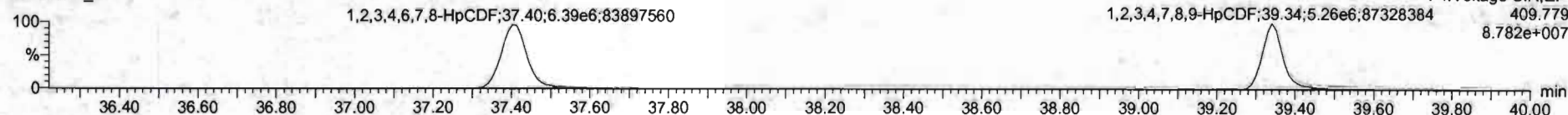
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1,2,3,4,6,7,8-HpCDF

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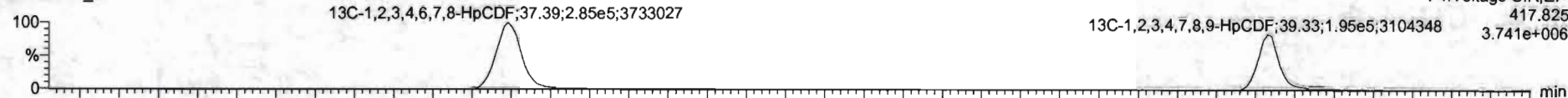


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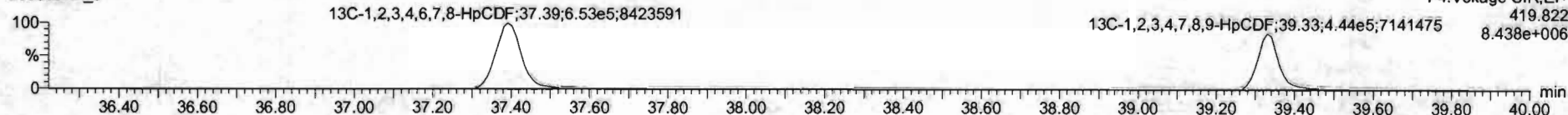


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200528R2_5

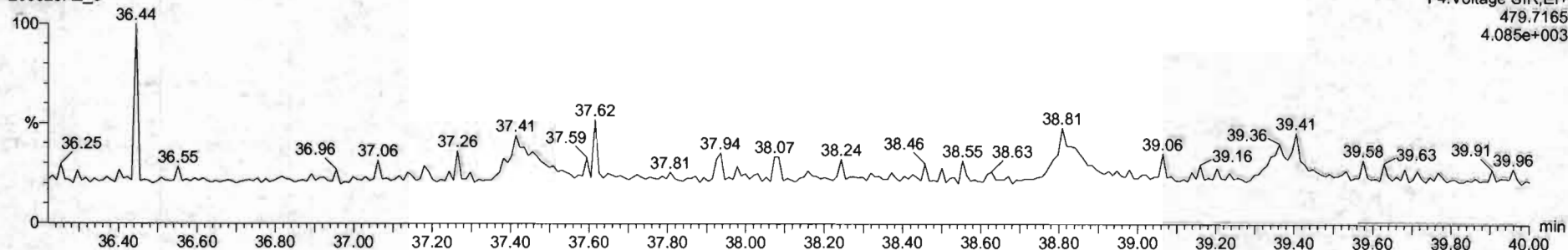


200528R2_5



DPE4

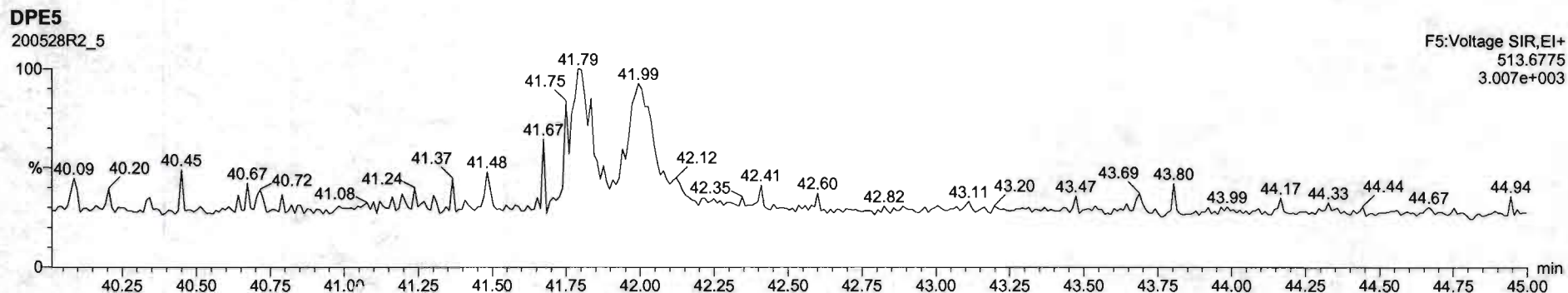
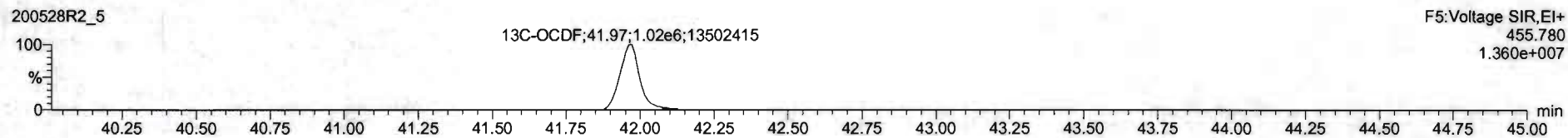
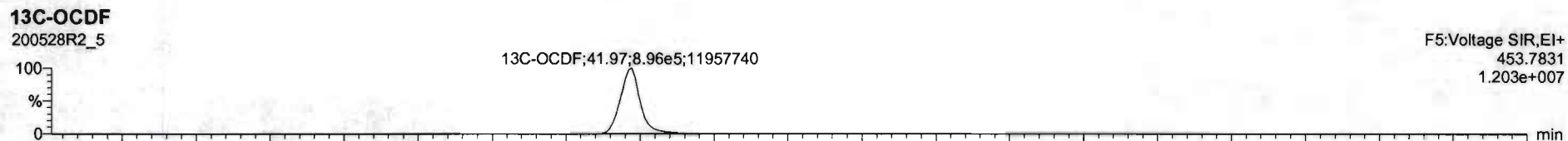
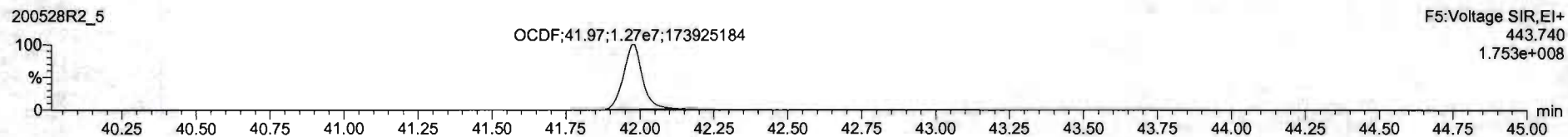
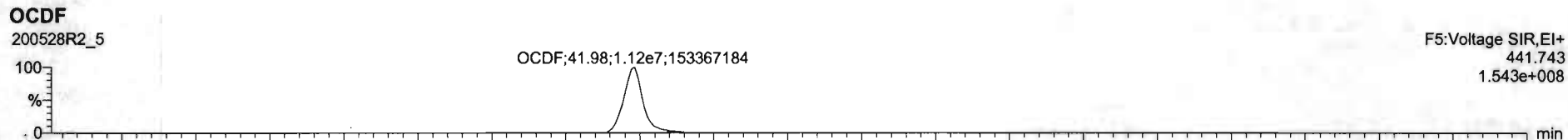
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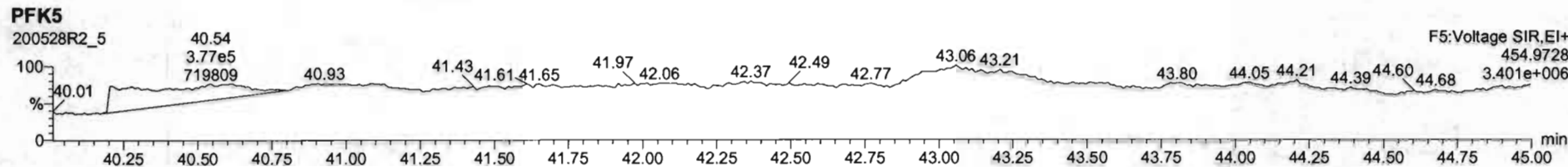
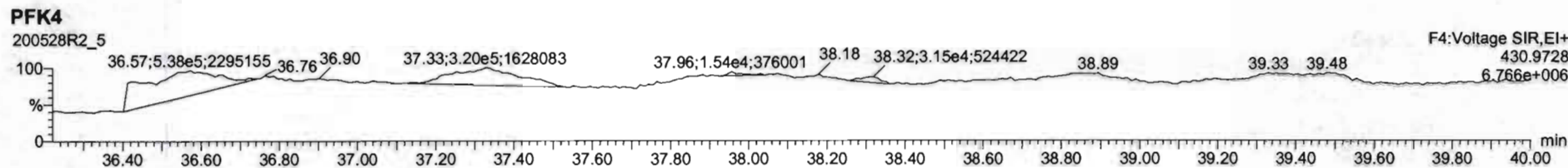
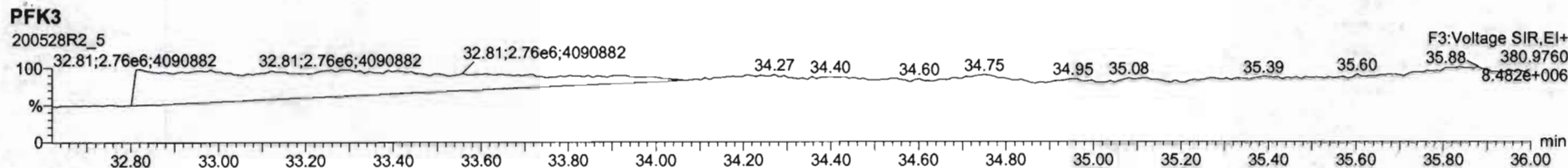
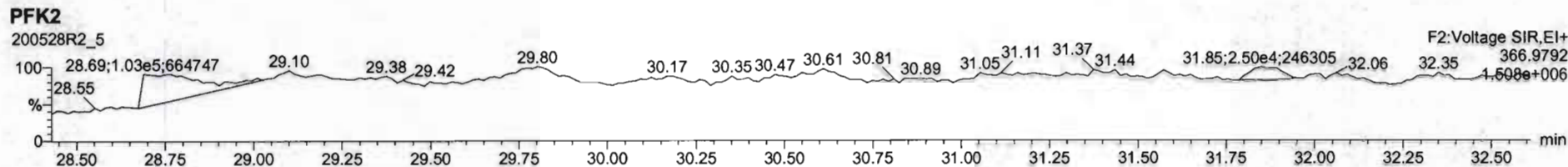
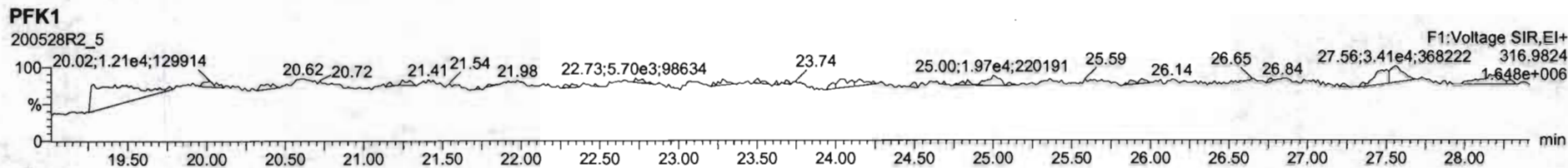
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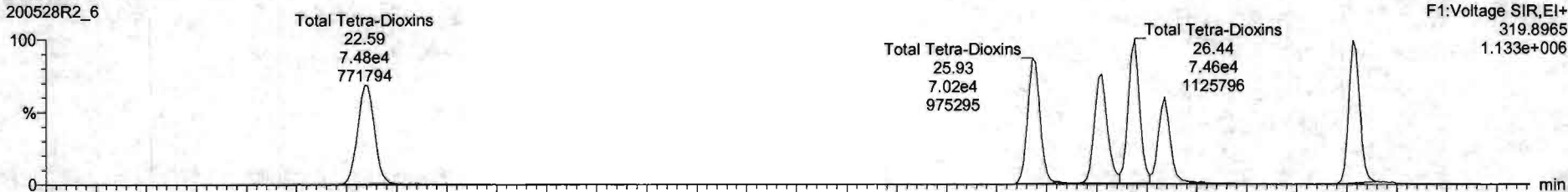
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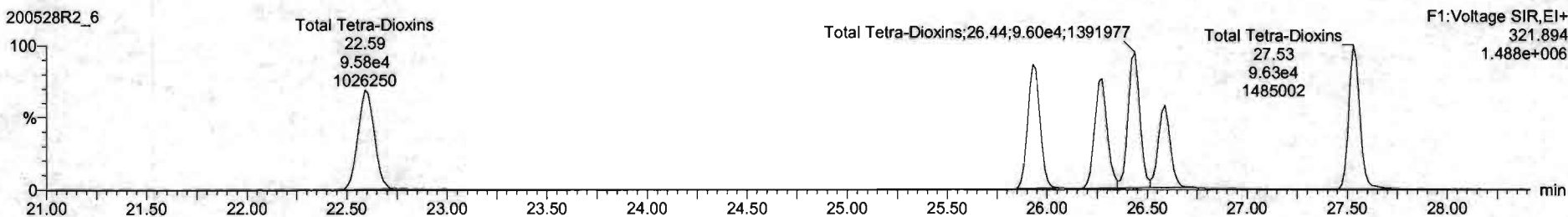
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2,3,7,8-TCDD

200528R2_6



200528R2_6

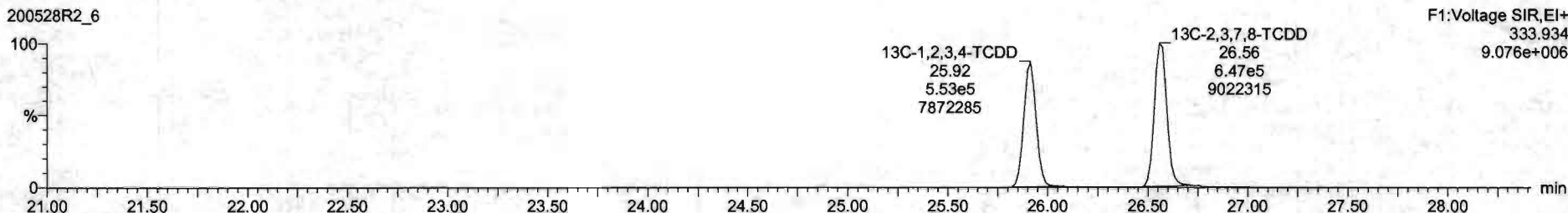


13C-2,3,7,8-TCDD

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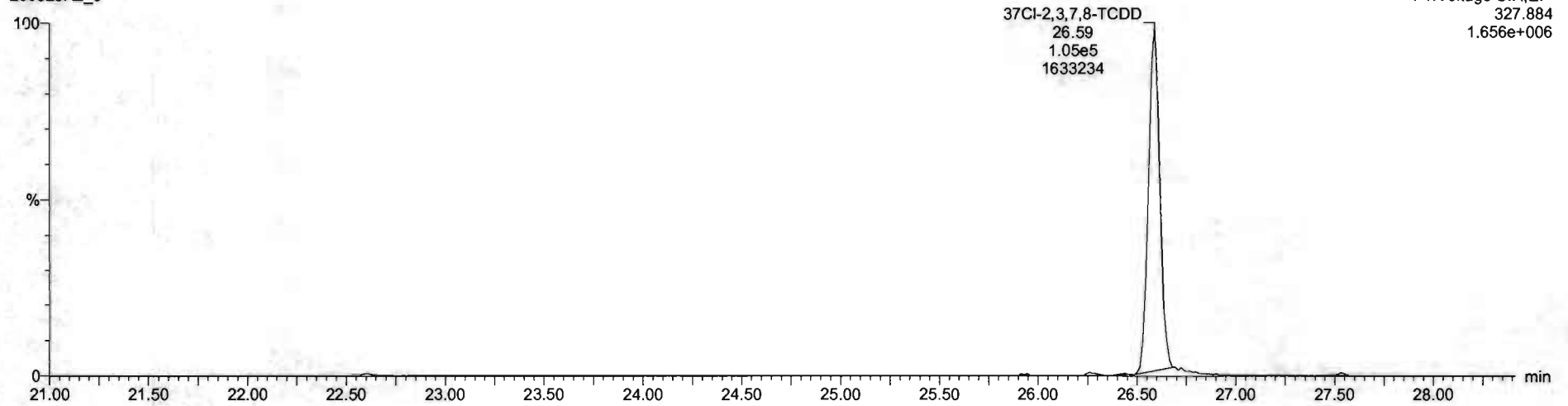
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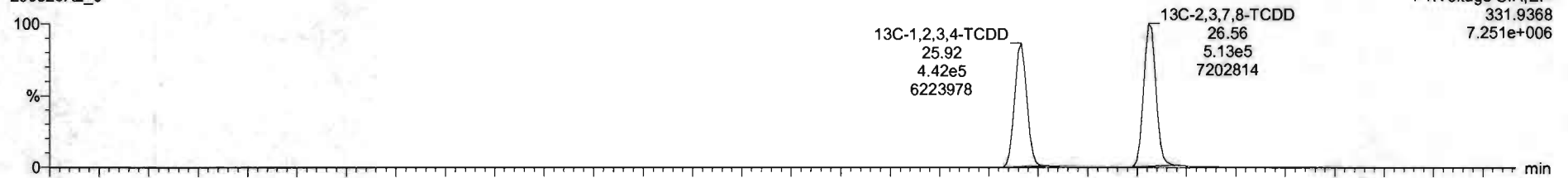
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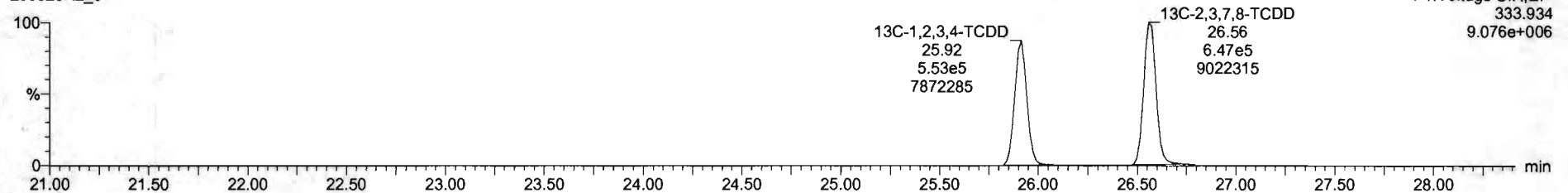


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200528R2_6



200528R2_6



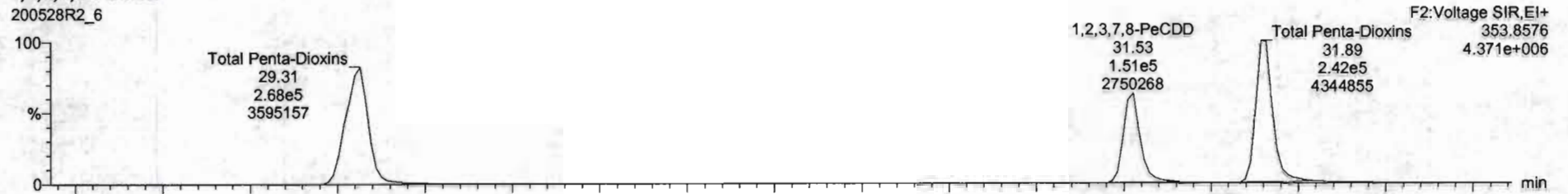
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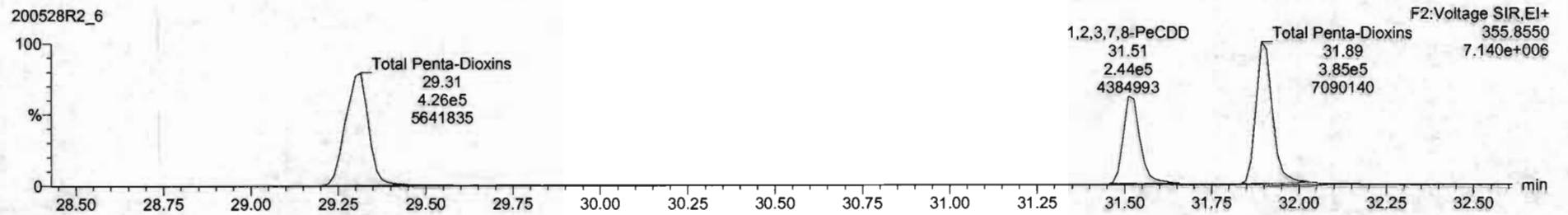
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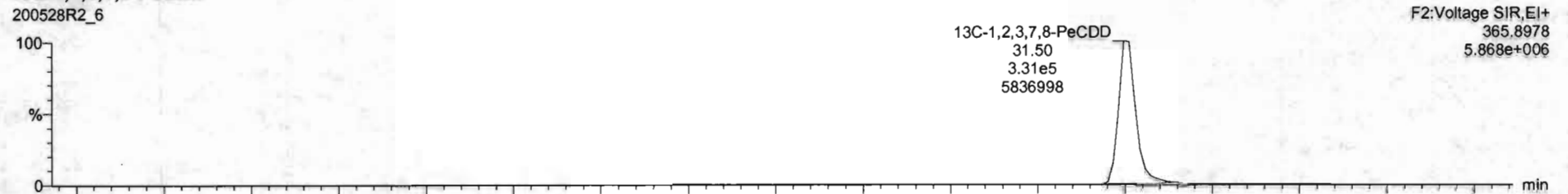


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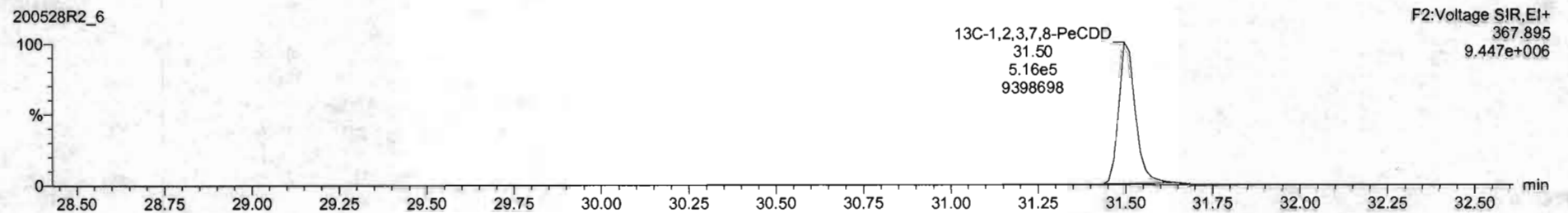


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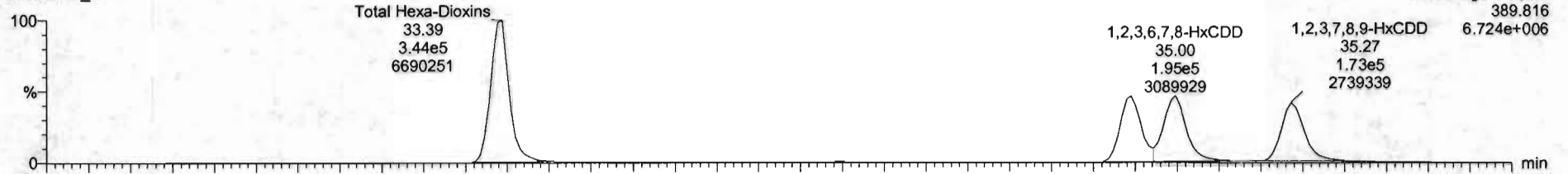
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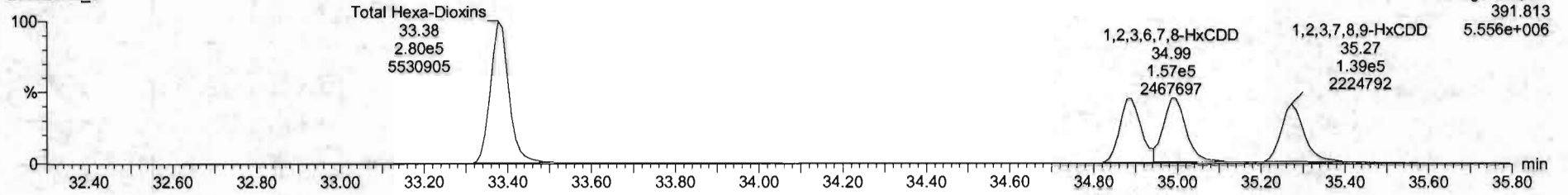
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1,2,3,4,7,8-HxCDD

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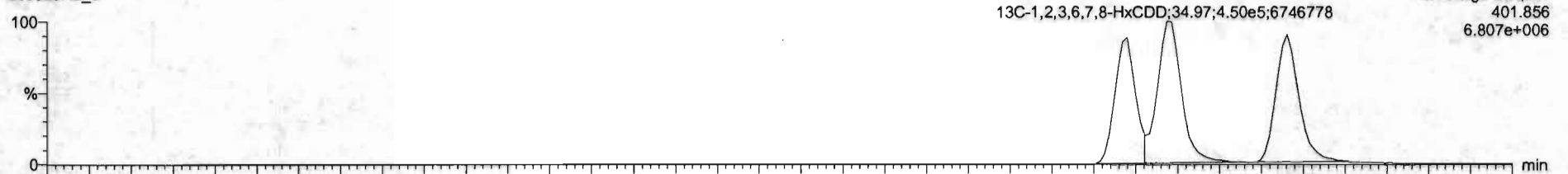


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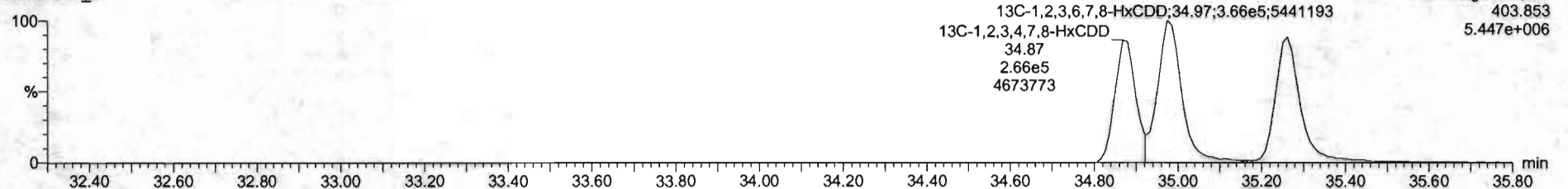


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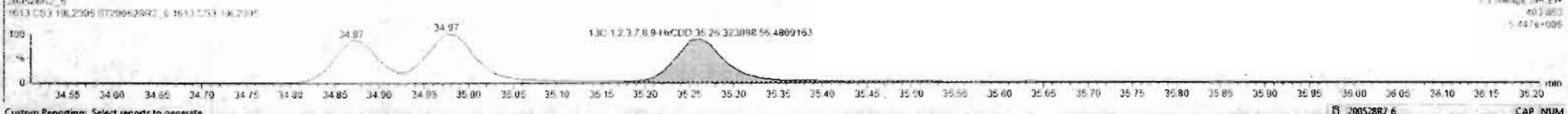
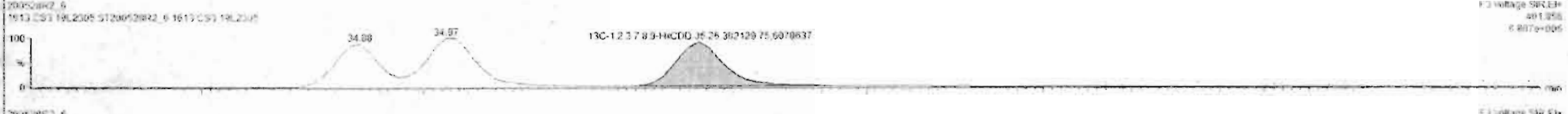
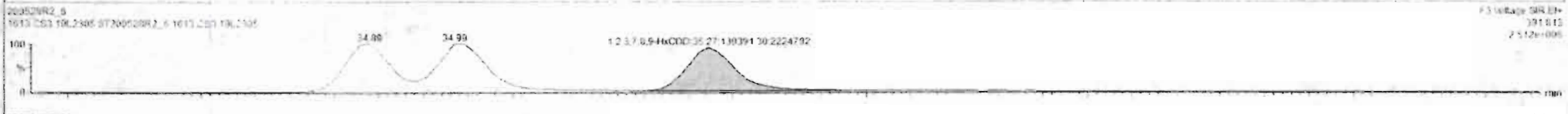
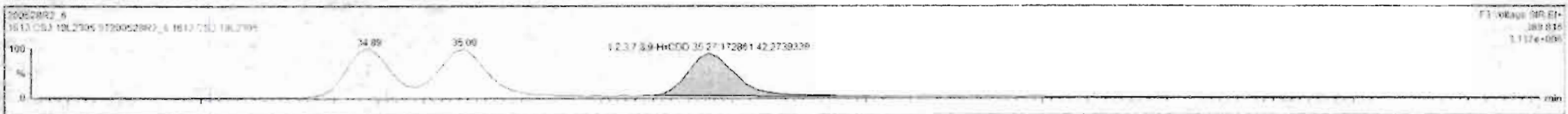
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200528R2_6



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1	1,2,3,6-TCDD	1.06e5	0.91	NO	0.6203	1.000	26.59	1.001	10.2	102	0.0674	10.2
2	1,2,3,7,8-PeCDD	3.96e5	0.62	NO	0.9041	1.000	31.43	1.001	51.3	103	2.19e	51.3
3	1,2,3,4,7,8-HxCDD	7.25e5	1.22	NO	1.6334	1.000	34.89	1.000	52.1	104	0.220	52.1
4	1,2,3,6,7,8-HxCDD	3.51e5	1.24	NO	0.8921	1.000	34.20	1.001	48.3	96.8	0.271	48.3
5	1,2,3,7,8,9-HxCDD	3.12e5	1.24	NO	0.6669	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HxCDD	2.29e5	1.02	NO	0.9618	1.000	30.81	1.000	51.2	102	2.209	51.2
7	CDD	4.53e5	0.38	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	1,2,3,6,7,8-HxCDF	1.19e5	0.74	NO	0.7510	1.000	25.68	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.8905	1.000	30.25	1.000	51.2	102	0.130	51.2
10	1,2,3,7,8-PeCDF	4.81e5	1.57	NO	0.9348	1.000	31.22	1.000	49.3	101	0.130	49.3
11	1,2,3,4,7,8-HxCDF	3.98e5	1.21	NO	0.8648	1.000	34.07	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8022	1.000	34.13	1.000	51.9	104	0.179	51.9
13	1,2,3,4,6,7,8-HxCDF	3.88e5	1.25	NO	0.9341	1.000	34.72	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8767	1.000	35.63	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,6,5-HpCDF	2.00e5	0.80	NO	1.0125	1.000	38.34	1.000	52.7	105	0.258	52.7
17	CDF	4.44e5	0.86	NO	0.8045	1.000	41.97	1.000	102	102	0.161	102
18	1,2,3,7,8,9-HxCDF	1.16e5	0.79	NO	1.1503	1.000	28.96	1.025	101	101	0.0990	101
19	1,2,3,4,6,7,8-HpCDD	6.48e5	0.64	NO	0.8450	1.000	31.60	1.215	100	100	0.225	100
20	1,2,3,4,7,8-HxCDD	6.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.188	98.9
21	1,2,3,6,7,8-HxCDD	6.19e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	102



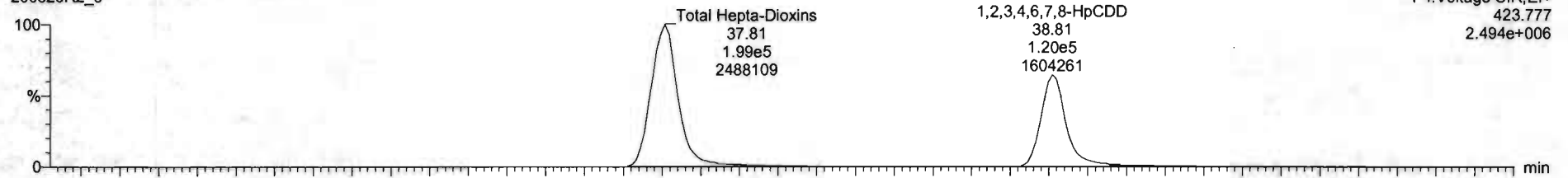
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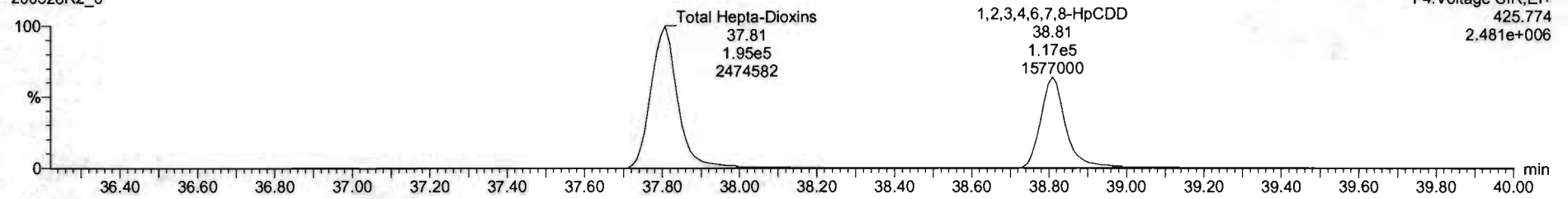
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200528R2_6

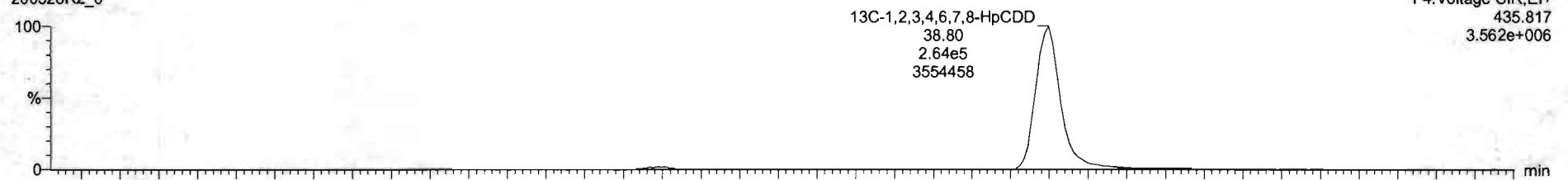


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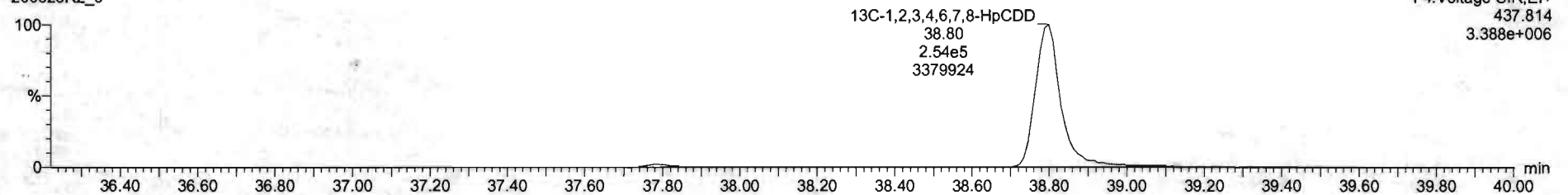


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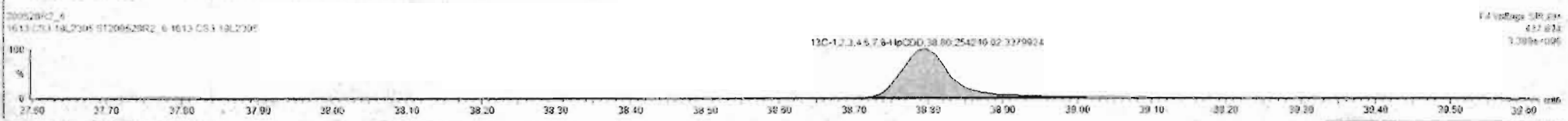
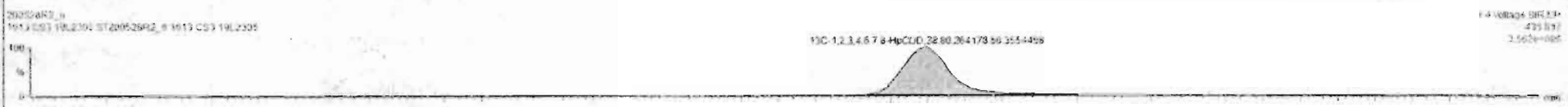
200528R2_6



200528R2_6



#	Name	Resp	RA	inj	RRF	wtvol	HT	RR1	Conc	%Rec	DL	EMPC
1	1,2,3,4,5-HpCDD	1.96e5	0.81	NO	0.880	1.000	26.19	1.001	10.2	102	0.0664	10.0
2	1,2,3,4,6,7,8-HpCDD	3.95e5	0.82	NO	0.900	1.000	31.53	1.001	51.3	102	0.195	51.3
3	1,2,3,4,7,8-HpCDD	3.25e5	1.23	NO	1.034	1.000	34.89	1.006	52.1	104	0.255	52.1
4	1,2,3,4,7,8-HxCDD	3.51e5	1.24	NO	0.890	1.000	35.00	1.001	48.2	96.4	0.251	48.2
5	1,2,3,4,7,8,9-HxCDD	3.12e5	1.24	NO	1.525	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HxCDD	3.95e5	1.03	NO	0.890	1.000	35.81	1.000	51.3	102	0.269	51.2
7	OCDF	4.53e5	0.98	NO	0.916	1.000	41.75	1.000	102	102	0.208	102
8	1,2,3,4,7,8-HxCDF	1.19e5	0.74	NO	0.710	1.000	25.09	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,4,7,8-HpCDF	5.72e5	1.57	NO	0.890	1.000	30.25	1.000	51.0	102	0.150	51.0
10	1,2,3,4,7,8-HxCDF	5.81e5	1.57	NO	0.930	1.000	31.00	1.000	50.3	101	0.150	50.3
11	1,2,3,4,7,8,9-HxCDF	5.58e5	1.21	NO	0.884	1.000	34.01	1.000	51.1	102	0.151	51.1
12	1,2,3,6,7,8-HpCDF	4.22e5	1.25	NO	0.880	1.000	34.13	1.000	51.9	104	0.170	51.9
13	1,2,3,4,6,7,8-HxCDF	3.88e5	1.25	NO	0.904	1.000	34.72	1.000	51.9	104	0.157	51.9
14	1,2,3,7,8-HpCDF	3.98e5	1.22	NO	0.870	1.000	35.03	1.000	51.1	102	0.209	51.1
15	1,2,3,4,6,7,8-HpCDF	2.84e5	0.98	NO	0.874	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,8,9-HpCDF	2.30e5	0.98	NO	1.012	1.000	39.34	1.000	52.7	108	0.288	52.7
17	OCDF	4.44e5	0.85	NO	0.800	1.000	41.87	1.000	102	102	0.161	102
18	13C-1,2,3,7,8-13CDD	1.16e5	0.79	NO	1.150	1.000	29.56	1.026	101	101	0.0980	
19	13C-1,2,3,7,8-HpCDD	3.48e5	0.84	NO	0.940	1.000	33.50	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HpCDD	8.04e5	1.27	NO	0.770	1.000	34.88	1.014	98.9	98.9	0.188	
21	13C-1,2,3,6,7,8-HpCDD	8.15e5	1.23	NO	1.040	1.000	34.97	1.017	102	102	0.144	



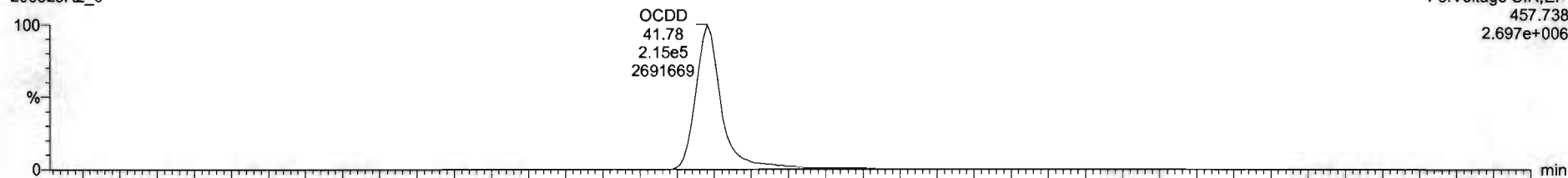
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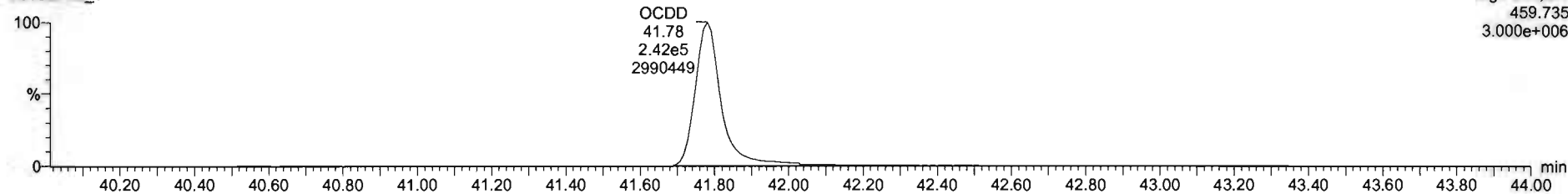
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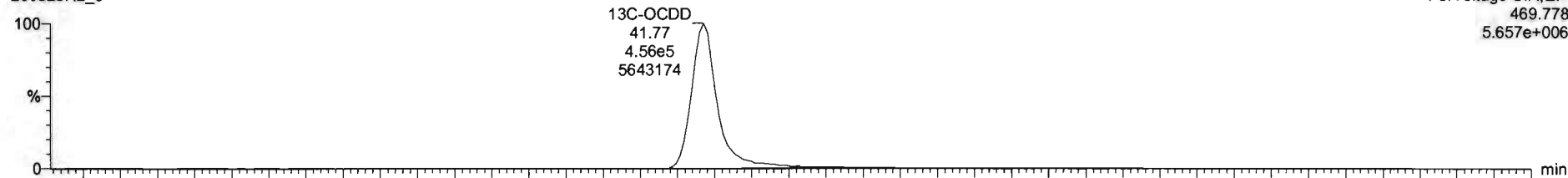


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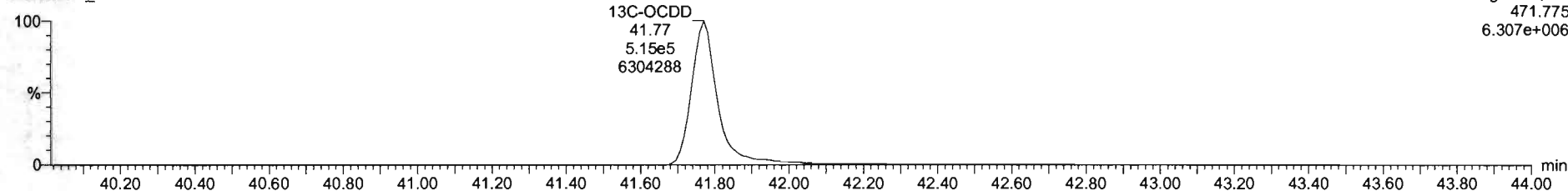


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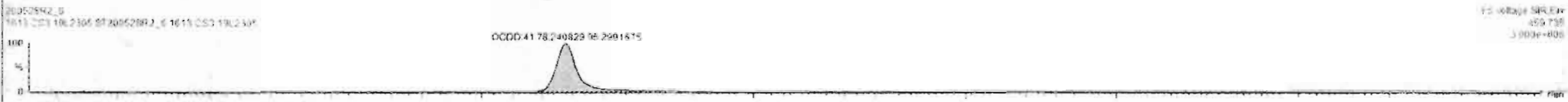
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200528R2_6



Name	Resp	RA	Qty	RHF	Wt/Vol	RT	RHT	Conc	%Rec	DL	EMFC
1 2,3,7,8-TCDD	1.96e6	0.21	NO	0.8843	1.000	26.19	1.001	10.2	102	0.0664	10.2
2 1,2,3,7,8-PeCDD	3.96e6	0.22	NO	0.9091	1.000	31.92	1.001	51.3	103	0.195	51.3
3 1,2,3,4,7,8-HxCDD	3.25e6	1.25	NO	1.0334	1.000	34.89	1.000	52.1	104	0.228	52.1
4 1,2,3,6,7,8-HxCDD	3.51e6	1.24	NO	0.8027	1.000	35.30	1.001	46.3	96.6	0.253	46.3
5 1,2,3,7,8,9-HxCDD	3.12e6	1.24	NO	0.9063	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6 1,2,3,4,6,7,8-HpCDD	7.36e6	1.52	NO	1.0881	1.000	35.81	1.000	71.1	100	0.216	71.1
7 OCDD	4.53e5	0.28	NO	0.9138	1.000	41.76	1.000	102	102	0.208	102
8 2,3,7,8-TCDF	1.19e6	0.24	NO	0.7510	1.000	25.89	1.001	3.96	99.6	0.0613	9.96
9 1,2,3,7,8-PeCDF	5.72e6	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.159	51.2
10 2,3,4,7,8-HxCDF	8.81e6	1.57	NO	0.9346	1.000	31.22	1.000	50.3	101	0.130	50.3
11 1,2,3,4,7,8-HxCDF	3.56e6	1.21	NO	0.8948	1.000	34.01	1.000	51.1	102	0.191	51.1
12 1,2,3,6,7,8-HxCDF	4.22e6	1.25	NO	0.8062	1.000	34.12	1.000	51.9	104	0.176	51.9
13 2,3,4,6,7,8-HxCDF	3.88e6	1.25	NO	0.9341	1.000	34.22	1.000	51.9	104	0.197	51.9
14 1,2,3,7,8,9-HxCDF	2.98e6	1.22	NO	0.8707	1.000	35.43	1.000	51.1	102	0.201	51.1
15 1,2,3,4,6,7,8-HpCDF	2.64e6	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16 1,2,3,4,7,8,9-HpCDF	2.06e6	0.98	NO	1.0128	1.000	39.34	1.000	52.7	105	0.253	52.7
17 OCDF	4.44e6	0.80	NO	0.8045	1.000	41.87	1.000	102	102	0.161	102
18 13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1563	1.000	26.96	1.025	101	101	0.0900	
19 13C-1,2,3,7,8-PeCDD	8.46e6	0.84	NO	0.8490	1.000	31.98	1.215	100	100	0.225	
20 13C-1,2,3,4,7,8-HxCDD	6.04e6	1.27	NO	0.7750	1.000	34.88	1.014	96.9	96.9	0.198	
21 13C-1,2,3,6,7,8-HxCDD	6.15e6	1.23	NO	1.0167	1.000	34.97	1.017	102	102	0.144	



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200528R2_6

CAP NUM

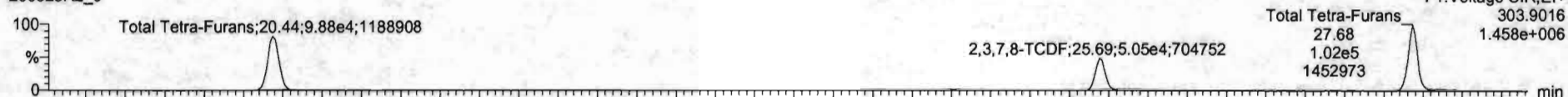
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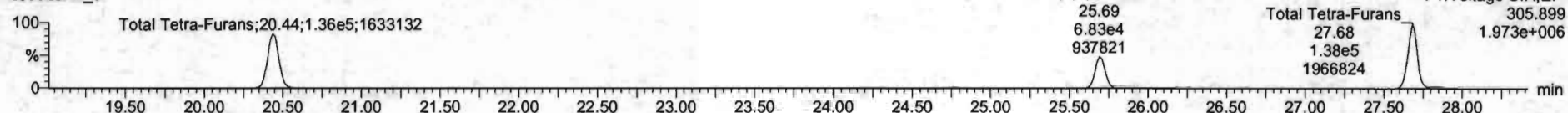
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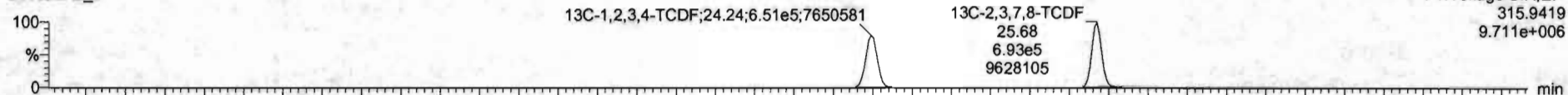


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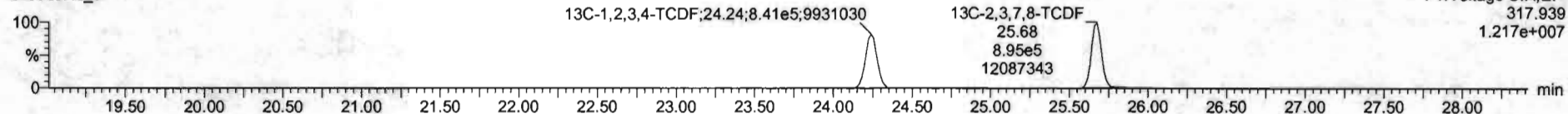


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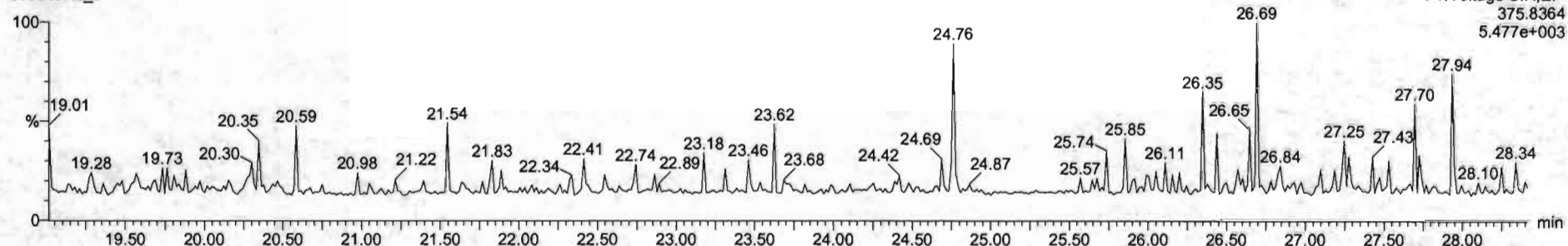


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DPE1

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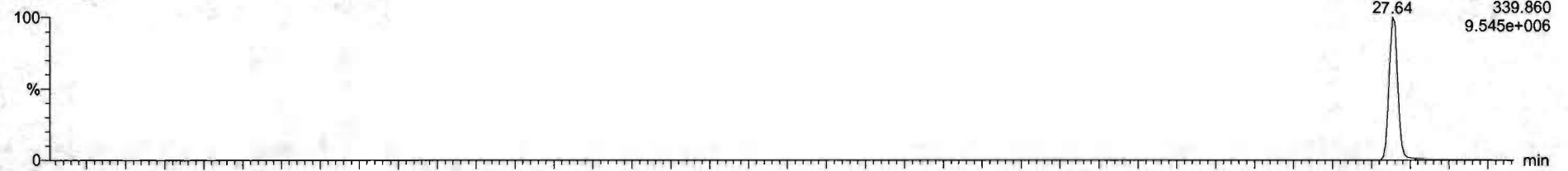
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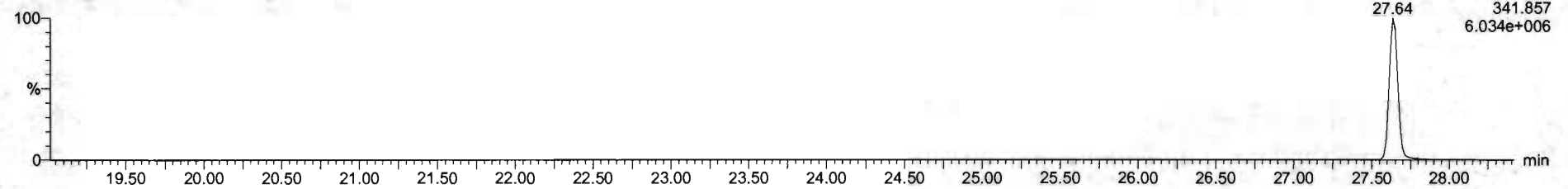
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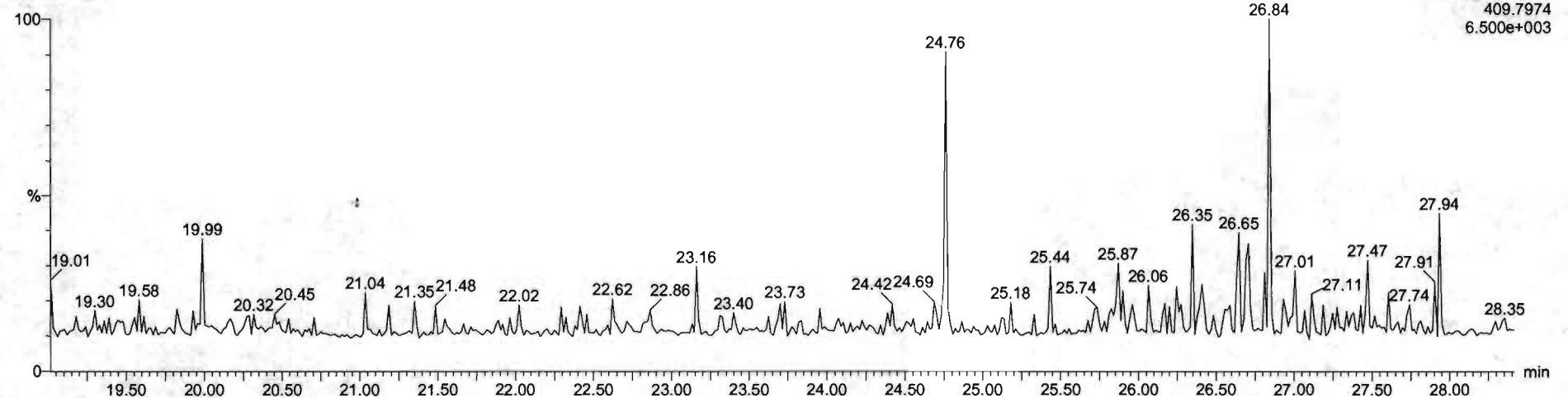


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DPE6

200528R2_6



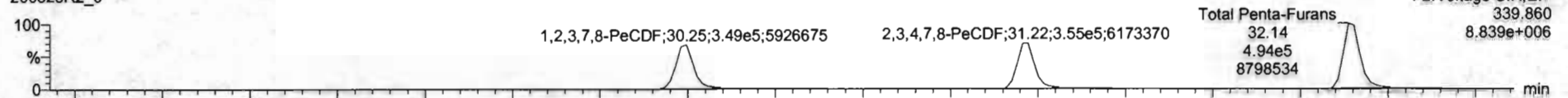
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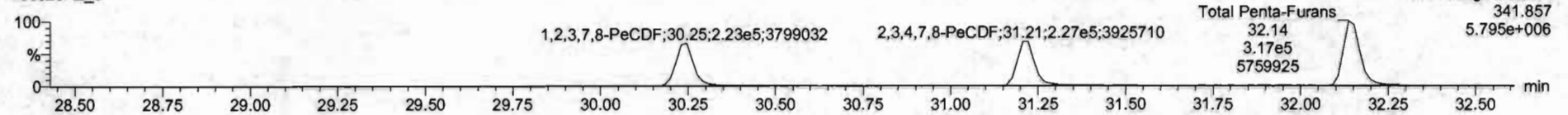
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1,2,3,7,8-PeCDF

200528R2_6

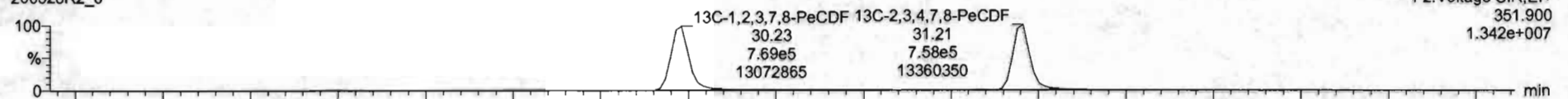


200528R2_6

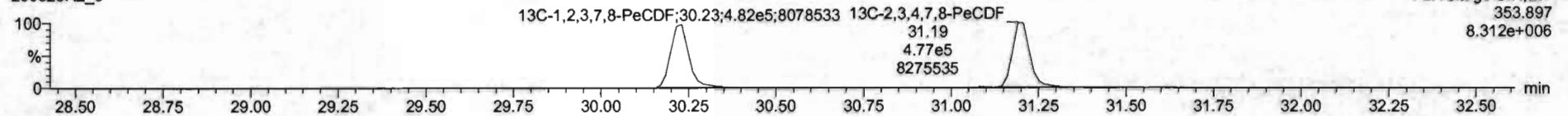


13C-1,2,3,7,8-PeCDF

200528R2_6

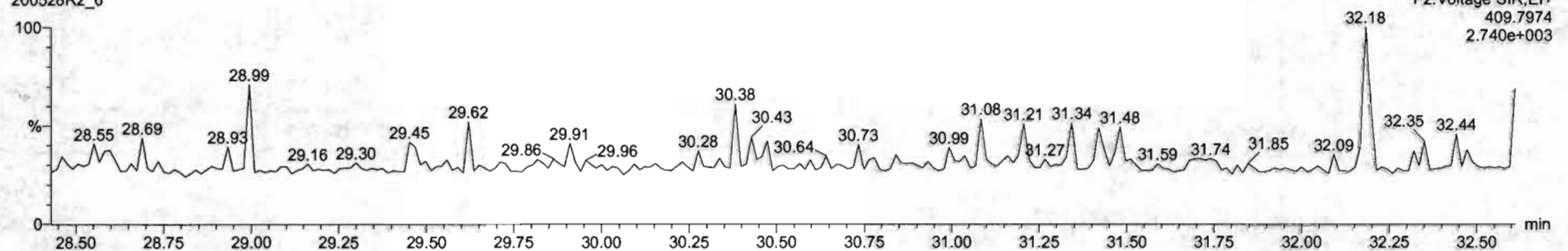


200528R2_6



DPE2

200528R2_6

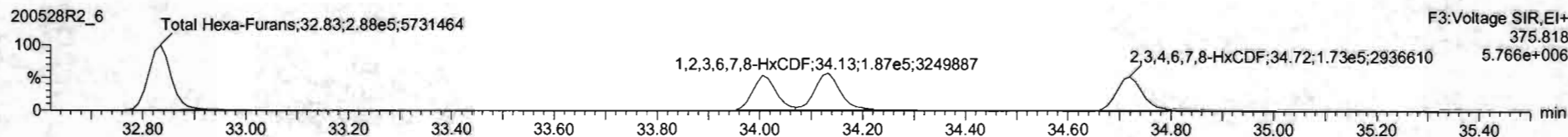
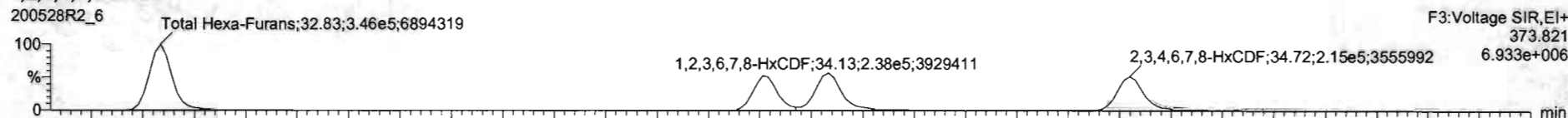


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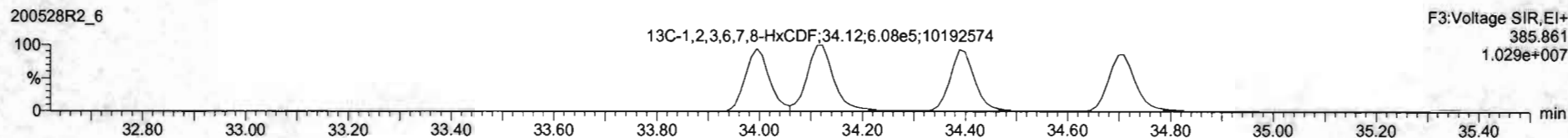
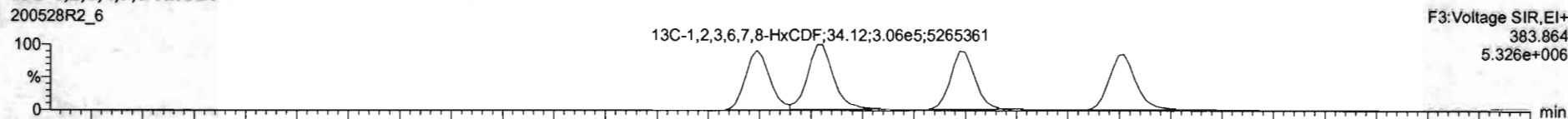
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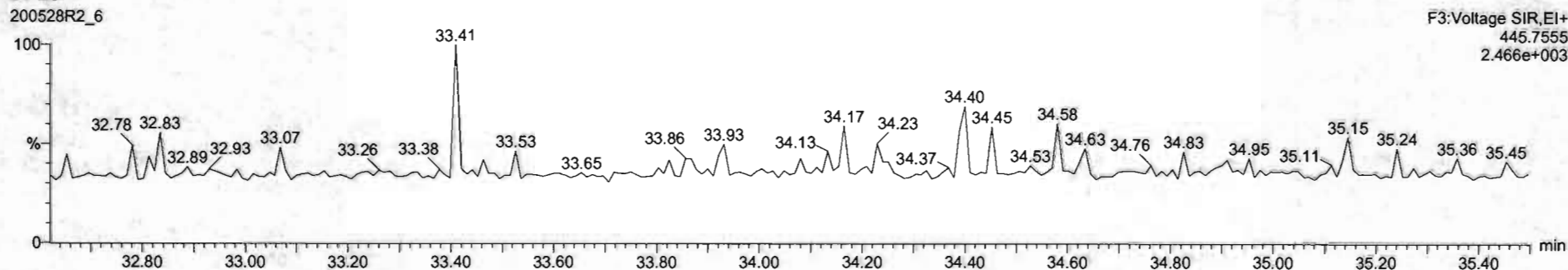
1,2,3,4,7,8-HxCDF



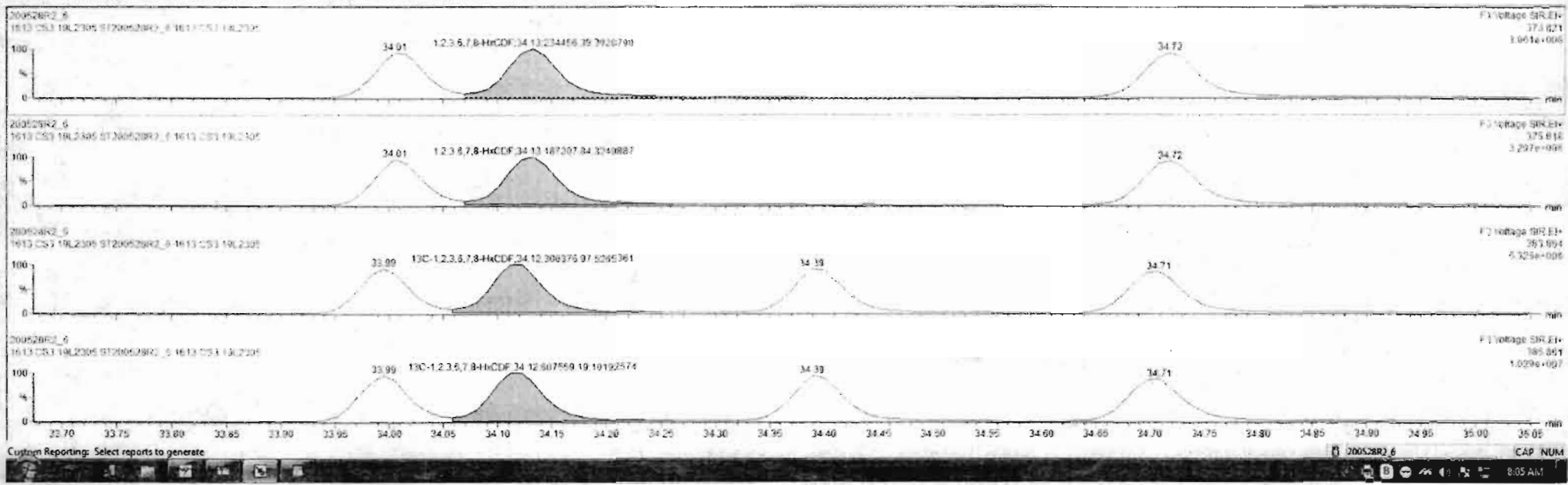
13C-1,2,3,4,7,8-HxCDF



DPE3



Name	Resp	RA	WV	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.06e5	0.81	NO	0.6082	1.000	26.55	1.001	102	102	0.0664	10.2
2 1,2,3,7,8-PeCDD	1.56e5	0.82	NO	0.6081	1.000	31.53	1.001	51.3	103	0.194	51.3
3 1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.89	1.000	52.1	104	0.220	52.1
4 1,2,3,6,7,8-HxCDD	0.31e5	1.24	NO	0.8923	1.000	25.00	1.001	48.3	96.6	0.231	48.3
5 1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.9269	1.000	35.27	1.000	49.9	99.8	0.264	49.9
6 1,2,3,4,6,7,8-HpCDD	0.26e5	1.01	NO	0.8898	1.000	26.61	1.000	51.2	102	0.209	51.2
7 OCDD	1.53e5	0.86	NO	0.5136	1.000	41.78	1.000	102	102	0.290	102
8 2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9 1,2,3,7,8-PeCDF	0.72e5	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.139	51.2
10 1,2,3,4,7,8-HxCDF	0.51e5	1.57	NO	0.9248	1.000	31.22	1.000	50.3	101	0.130	50.3
11 1,2,3,4,7,8-HxCDF	0.56e5	1.21	NO	0.8845	1.000	34.01	1.000	51.1	102	0.191	51.1
12 1,2,3,6,7,8-HxCDF	0.42e5	1.25	NO	0.8092	1.000	34.13	1.000	51.9	104	0.170	51.9
13 2,3,4,6,7,8-HpCDF	1.58e5	1.25	NO	0.9241	1.000	34.72	1.000	51.9	104	0.197	51.9
14 1,2,3,7,8,9-HxCDF	0.98e5	1.22	NO	0.8707	1.000	35.83	1.000	51.1	102	0.201	51.1
15 1,2,3,4,6,7,8-HpCDF	2.64e5	0.90	NO	0.8714	1.000	37.41	1.001	51.4	103	0.221	51.4
18 1,2,3,4,7,8,9-HpCDF	0.20e5	0.86	NO	1.0100	1.000	39.34	1.000	52.7	105	0.268	52.7
17 OCDF	1.44e5	0.86	NO	0.8085	1.000	41.97	1.000	102	102	0.141	102
19 1,2,3,7,8-TCDF	1.16e5	0.79	NO	1.1583	1.000	26.56	1.026	101	101	0.0890	
13C 1,2,3,7,8-PeCDD	0.48e5	0.64	NO	0.8490	1.000	31.50	1.215	100	100	0.235	
20 13C-1,2,3,7,8-HxCDD	0.04e5	1.27	NO	0.7790	1.000	34.86	1.014	98.9	98.9	0.188	
21 13C-1,2,3,7,8-HxCDD	0.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



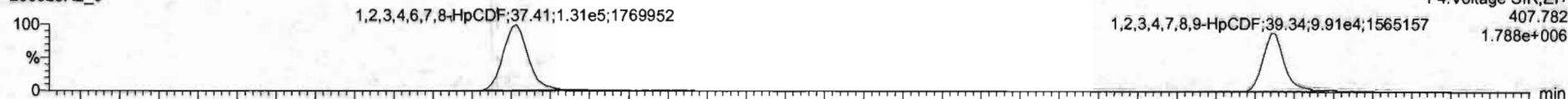
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

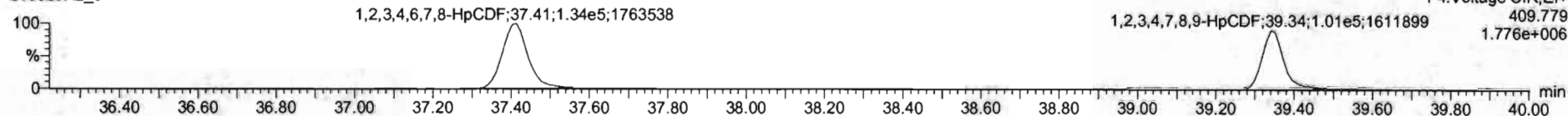
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1,2,3,4,6,7,8-HpCDF

200528R2_6

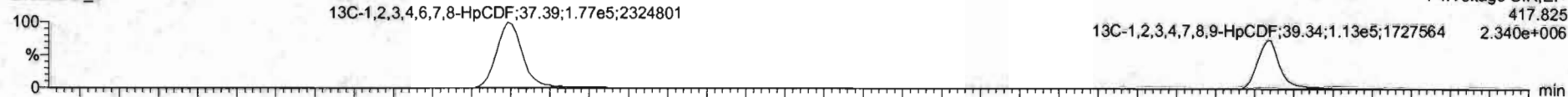


200528R2_6

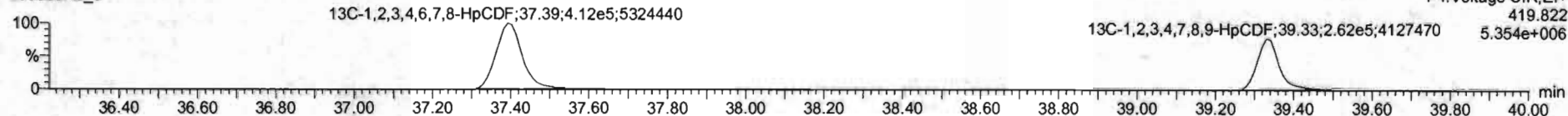


13C-1,2,3,4,6,7,8-HpCDF

200528R2_6

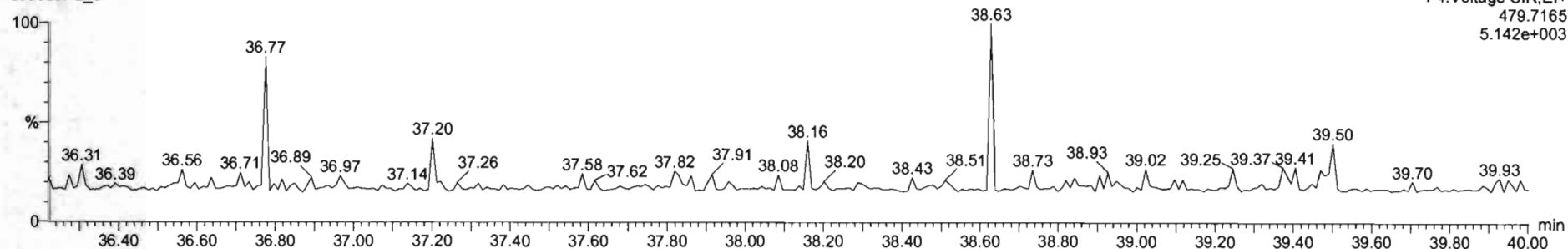


200528R2_6



DPE4

200528R2_6



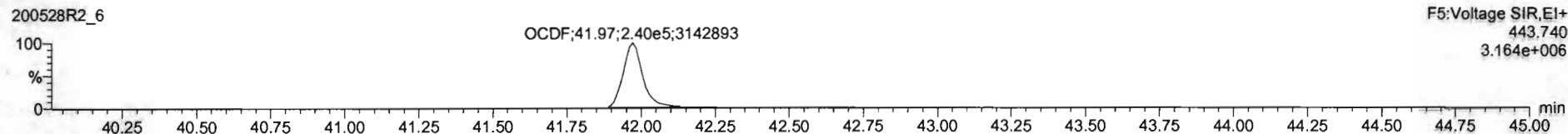
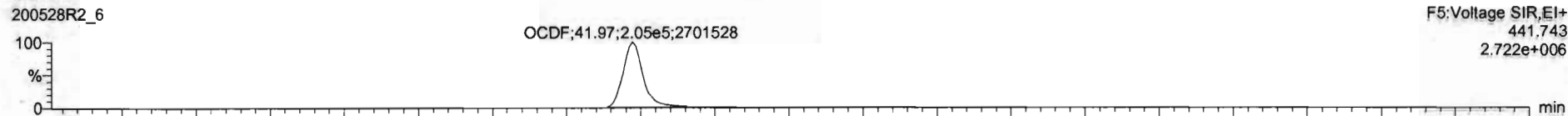
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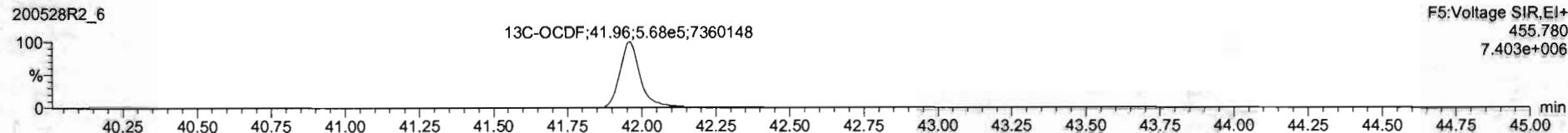
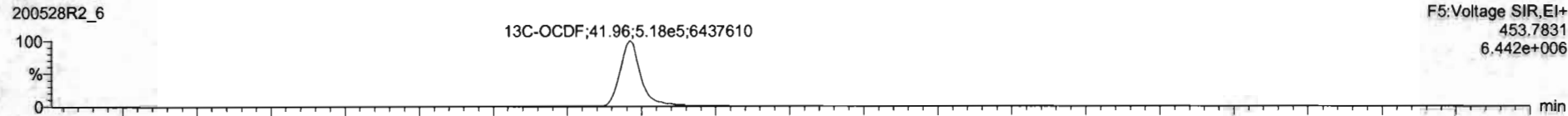
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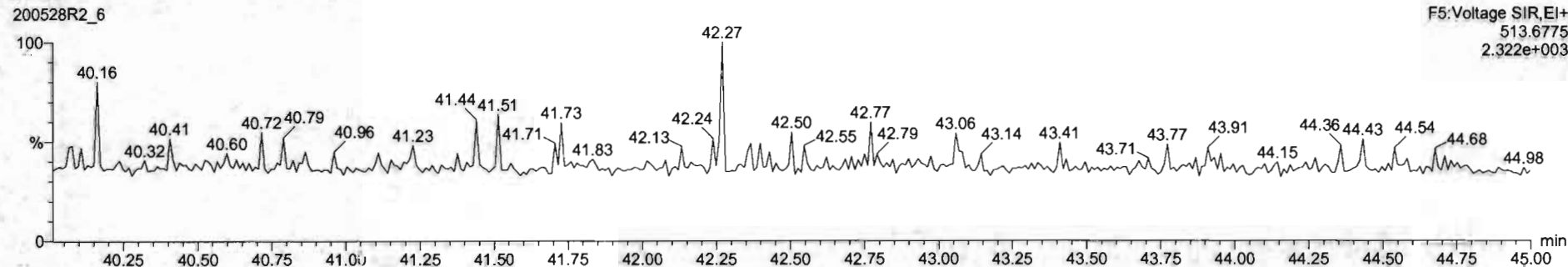
OCDF



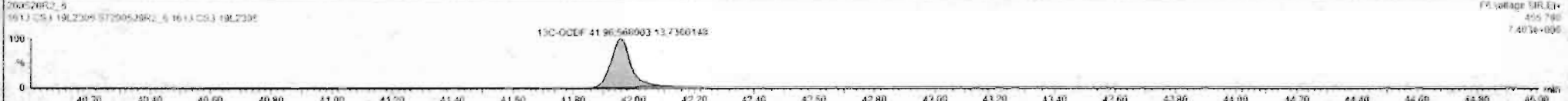
13C-OCDF



DPE5



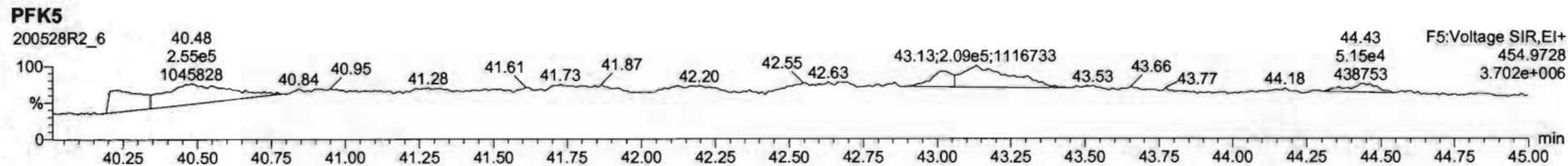
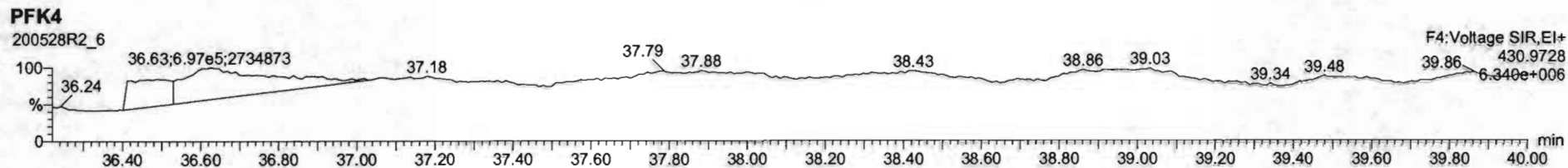
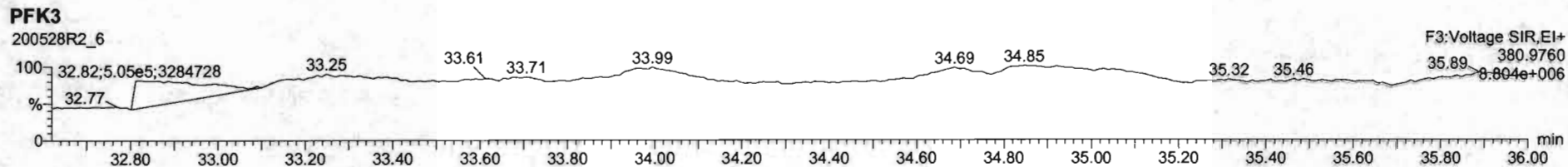
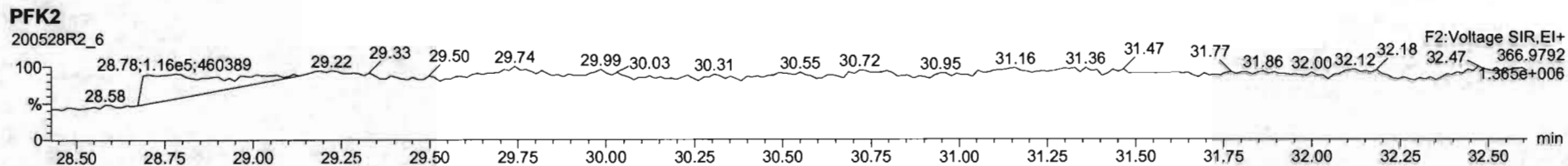
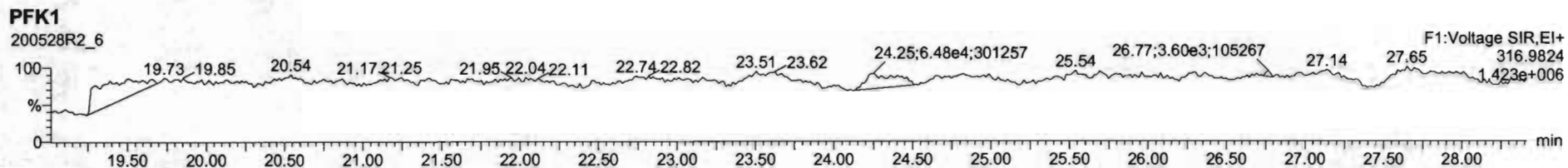
#	Name	Resp	RA	Qty	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.06e5	0.81	NO	0.8803	1.000	26.19	1.001	10.2	102	0.0664	10.2
2	1,2,3,7,8-PeCDD	3.56e5	0.62	NO	0.8091	1.000	31.53	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.89	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDD	0.51e5	1.34	NO	0.8921	1.000	35.00	1.001	48.3	96.6	0.231	48.3
5	1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.8265	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HpCDD	1.06e5	1.01	NO	1.9839	1.000	36.81	1.000	73.2	102	0.109	73.2
7	OCDD	4.53e5	0.68	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.98	99.8	0.0613	9.96
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.8925	1.000	30.24	1.000	51.2	102	0.139	51.2
10	1,2,3,4,7,8-HxCDF	0.61e5	1.57	NO	0.9348	1.000	31.22	1.000	40.3	101	0.150	40.3
11	1,2,3,4,7,8-HxCDF	3.56e5	1.31	NO	0.8845	1.000	34.81	1.000	51.1	103	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8282	1.000	34.13	1.000	51.9	104	0.176	51.9
13	2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.9341	1.000	34.72	1.000	51.8	104	0.187	51.8
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8787	1.000	34.83	1.000	51.1	102	0.291	51.1
15	1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,8,9-HpCDF	2.00e5	0.98	NO	1.0128	1.000	39.34	1.000	52.7	102	0.258	52.7
17	OCDF	4.44e5	0.85	NO	0.6085	1.000	41.97	1.000	102	102	0.191	102
18	13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1583	1.000	26.96	1.024	101	101	0.0680	
19	13C-1,2,3,7,8-PeCDD	6.48e5	0.64	NO	0.8456	1.000	31.56	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	0.84e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.168	
21	13C-1,2,3,6,7,8-HxCDD	0.15e5	1.23	NO	1.8187	1.000	34.97	1.017	102	102	0.144	



Dataset: Untitled

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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

GRB 05/29/2020

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_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	1.24e5	0.78	NO	0.888	1.000	26.575	26.57	1.001	1.001	11.080	111	0.0262	11.1
2	2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.908	1.000	31.518	31.51	1.001	1.000	56.429	113	0.0622	56.4
3	3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.03	1.000	34.879	34.88	1.000	1.000	58.033	116	0.101	58.0
4	4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.892	1.000	34.975	34.99	1.000	1.000	57.963	116	0.105	58.0
5	5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.887	1.000	35.262	35.26	1.000	1.000	57.107	114	0.119	57.1
6	6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.864	1.000	38.799	38.80	1.000	1.000	55.832	112	0.168	55.8
7	7 OCDD	5.15e5	0.88	NO	0.914	1.000	41.759	41.78	1.000	1.001	111.26	111	0.171	111
8	8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.751	1.000	25.671	25.68	1.001	1.001	11.386	114	0.0333	11.4
9	9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.893	1.000	30.236	30.23	1.001	1.001	55.728	111	0.0942	55.7
10	10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.935	1.000	31.222	31.21	1.001	1.000	60.229	120	0.0851	60.2
11	11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.884	1.000	33.984	33.99	1.000	1.000	55.936	112	0.113	55.9
12	12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.889	1.000	34.122	34.12	1.000	1.000	56.761	114	0.107	56.8
13	13 2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.934	1.000	34.732	34.71	1.001	1.000	56.468	113	0.117	56.5
14	14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.871	1.000	35.614	35.62	1.000	1.000	55.299	111	0.174	55.3
15	15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.873	1.000	37.430	37.40	1.001	1.000	54.506	109	0.182	54.5
16	16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.01	1.000	39.331	39.34	1.000	1.000	57.740	115	0.198	57.7
17	17 OCDF	5.22e5	0.87	NO	0.806	1.000	41.951	41.96	1.000	1.000	113.77	114	0.201	114
18	18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.16	1.000	26.584	26.54	1.026	1.025	91.859	91.9	0.0837	
19	19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.849	1.000	31.784	31.50	1.227	1.216	88.503	88.5	0.117	
20	20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.779	1.000	34.874	34.87	1.014	1.014	88.587	88.6	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.02	1.000	34.987	34.97	1.017	1.017	88.739	88.7	0.138	
22	22 13C-1,2,3,7,8,9-HxCDD	7.39e5	1.24	NO	0.903	1.000	35.259	35.25	1.025	1.025	87.785	87.8	0.155	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.53e5	1.04	NO	0.689	1.000	38.787	38.79	1.128	1.128	86.116	86.1	0.160	
24	24 13C-OCDD	1.01e6	0.89	NO	0.652	1.000	41.813	41.76	1.216	1.214	166.64	83.3	0.212	
25	25 13C-2,3,7,8-TCDF	1.73e6	0.77	NO	1.06	1.000	25.623	25.65	0.989	0.990	90.815	90.8	0.116	
26	26 13C-1,2,3,7,8-PeCDF	1.35e6	1.61	NO	0.838	1.000	30.163	30.21	1.165	1.167	89.693	89.7	0.169	
27	27 13C-2,3,4,7,8-PeCDF	1.33e6	1.57	NO	0.817	1.000	31.119	31.19	1.202	1.204	90.666	90.7	0.174	
28	28 13C-1,2,3,4,7,8-HxCDF	8.51e5	0.51	NO	1.01	1.000	34.004	33.98	0.989	0.988	90.589	90.6	0.222	
29	29 13C-1,2,3,6,7,8-HxCDF	1.01e6	0.51	NO	1.17	1.000	34.127	34.11	0.992	0.992	92.509	92.5	0.191	
30	30 13C-2,3,4,6,7,8-HxCDF	8.50e5	0.51	NO	1.02	1.000	34.702	34.70	1.009	1.009	89.276	89.3	0.219	
31	31 13C-1,2,3,7,8,9-HxCDF	7.33e5	0.50	NO	0.860	1.000	35.603	35.61	1.035	1.036	91.476	91.5	0.260	

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_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	6.33e5	0.43	NO	0.774	1.000	37.353	37.39	1.086	1.087	87.682	87.7	0.235	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	0.42	NO	0.521	1.000	39.386	39.33	1.145	1.144	83.716	83.7	0.350	
34	34 13C-OCDF	1.14e6	0.88	NO	0.746	1.000	41.985	41.95	1.221	1.220	163.83	81.9	0.148	
35	35 37Cl-2,3,7,8-TCDD	1.28e5			1.04	1.000	26.615	26.57	1.028	1.026	10.416	104	0.0149	
36	36 13C-1,2,3,4-TCDD	1.19e6	0.81	NO	1.00	1.000	26.000	25.90	1.000	1.000	100.00	100	0.0967	
37	37 13C-1,2,3,4-TCDF	1.80e6	0.79	NO	1.00	1.000	24.360	24.22	1.000	1.000	100.00	100	0.123	
38	38 13C-1,2,3,4,6,9-HxCDF	9.32e5	0.51	NO	1.00	1.000	34.420	34.39	1.000	1.000	100.00	100	0.223	

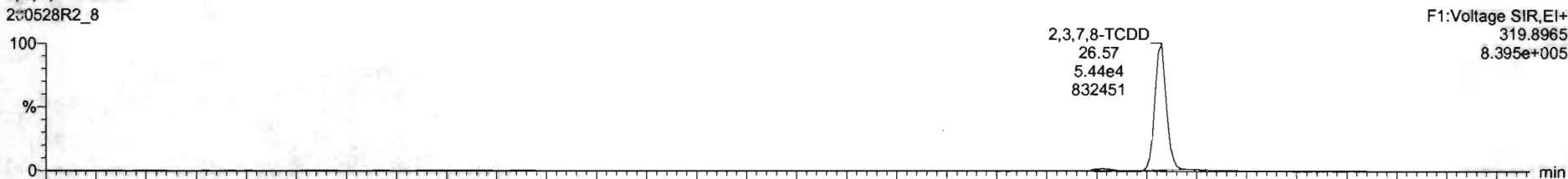
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Last Altered: Friday, May 29, 2020 7:38:11 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

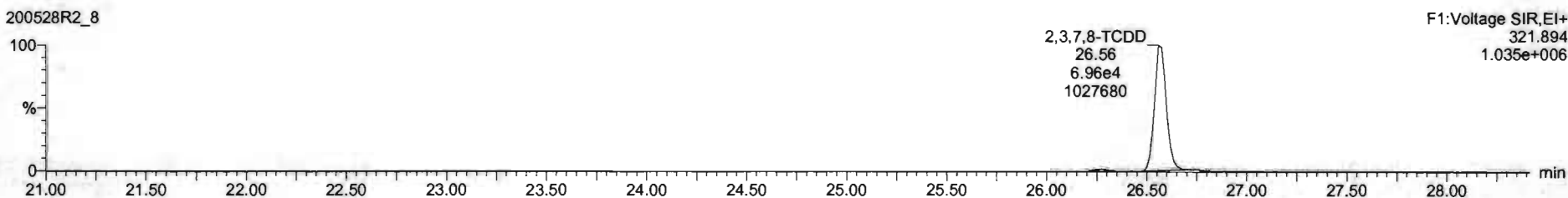
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

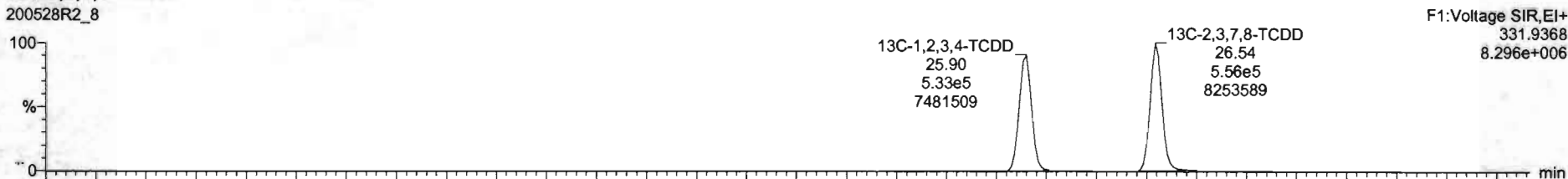
2,3,7,8-TCDD
200528R2_8



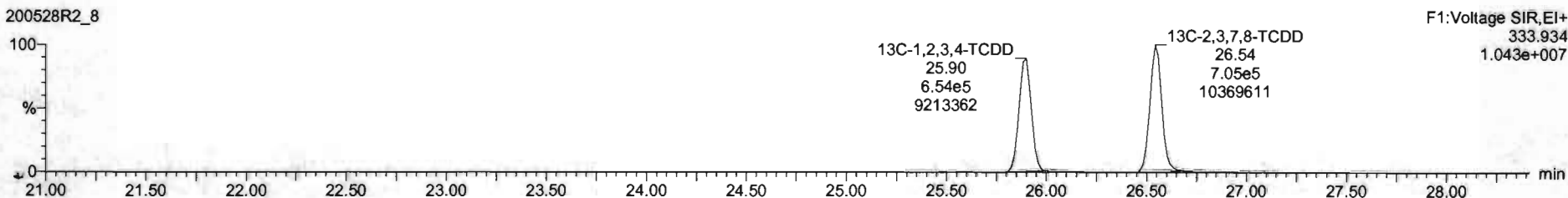
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13C-2,3,7,8-TCDD
200528R2_8



200528R2_8



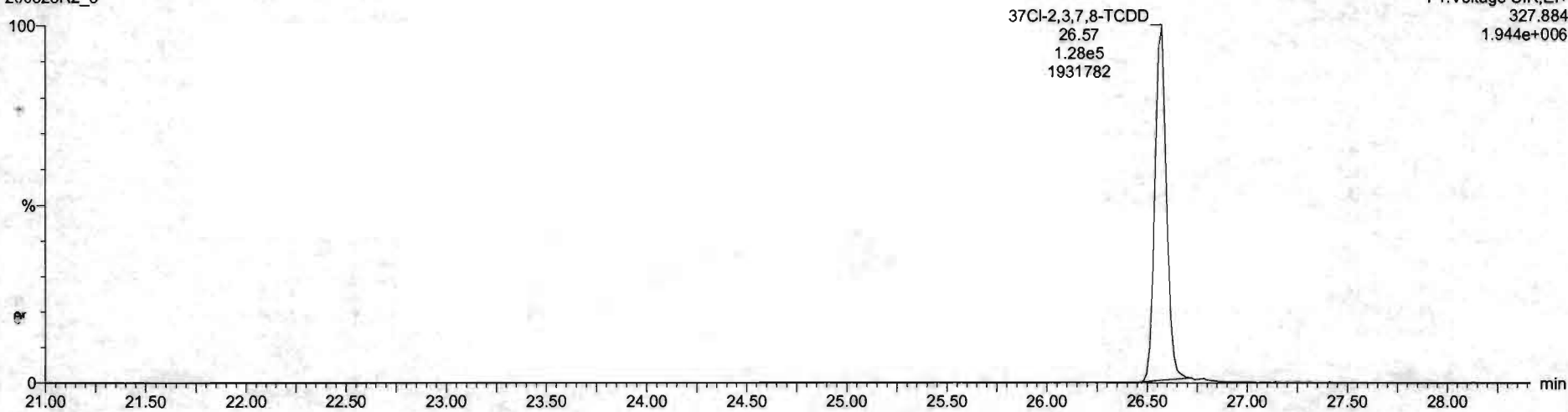
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

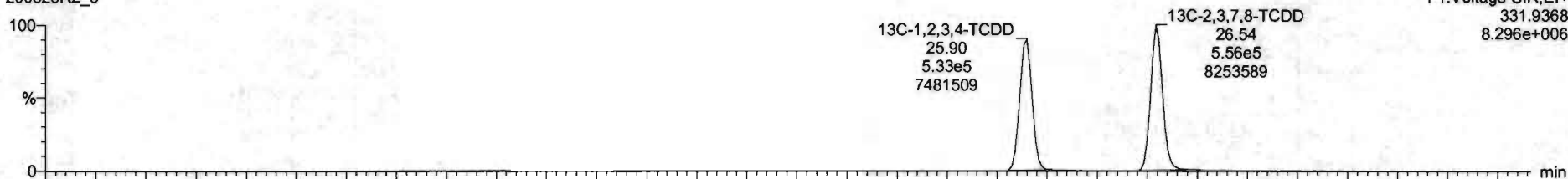
200528R2_8



F1:Voltage SIR,EI+
327.884
1.944e+006

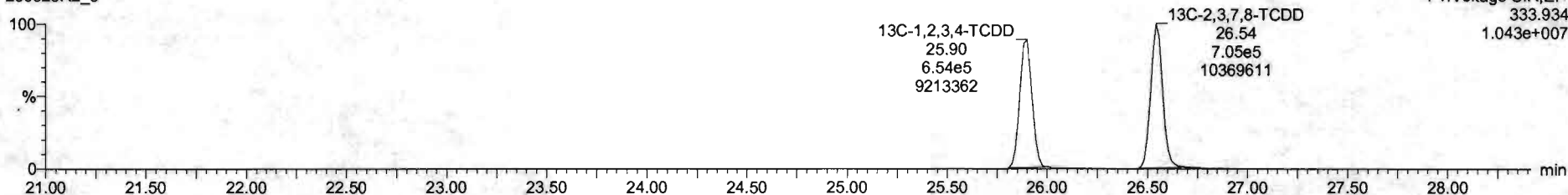
13C-1,2,3,4-TCDD

200528R2_8



F1:Voltage SIR,EI+
331.9368
8.296e+006

200528R2_8



F1:Voltage SIR,EI+
333.934
1.043e+007

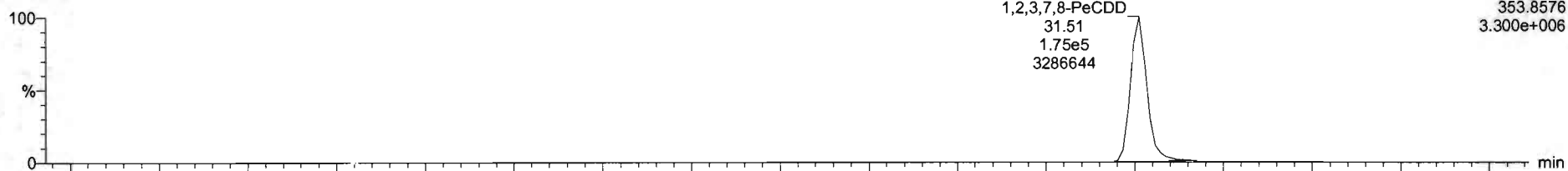
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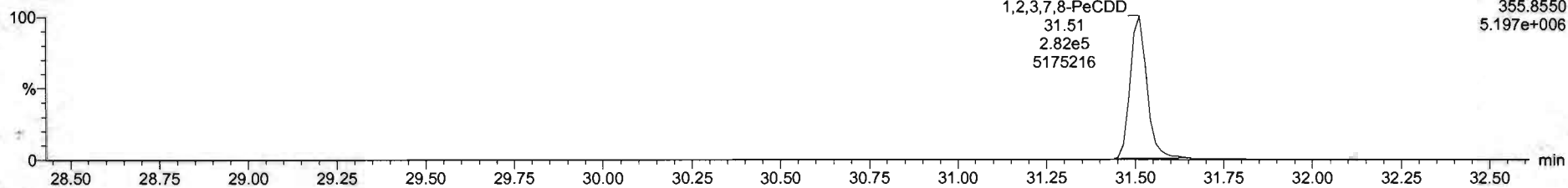
Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,7,8-PeCDD

200528R2_8

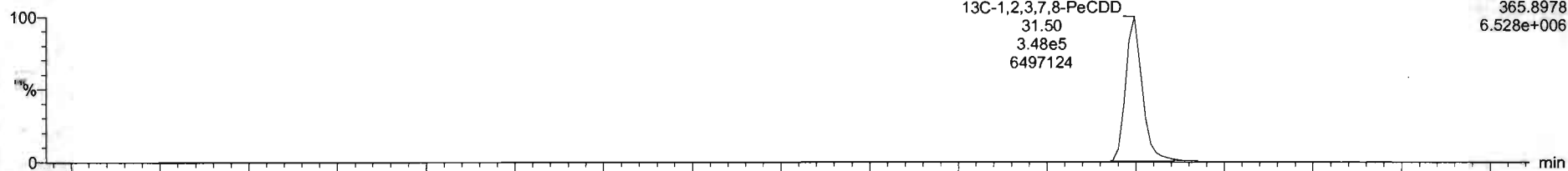


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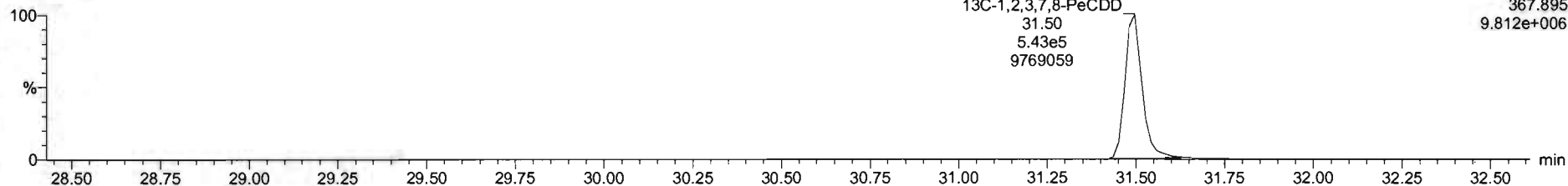


13C-1,2,3,7,8-PeCDD

200528R2_8



200528R2_8



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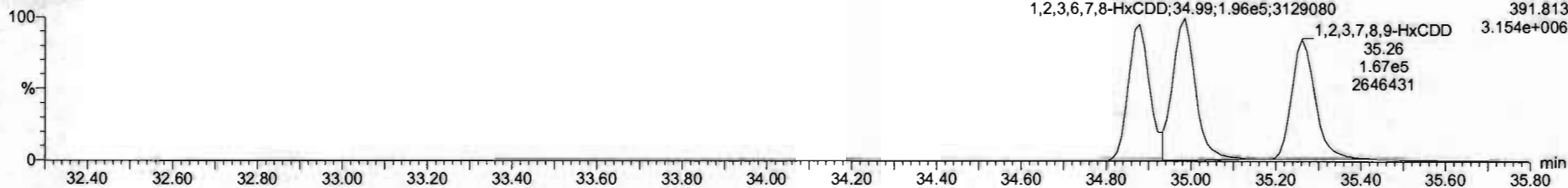
Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200528R2_8

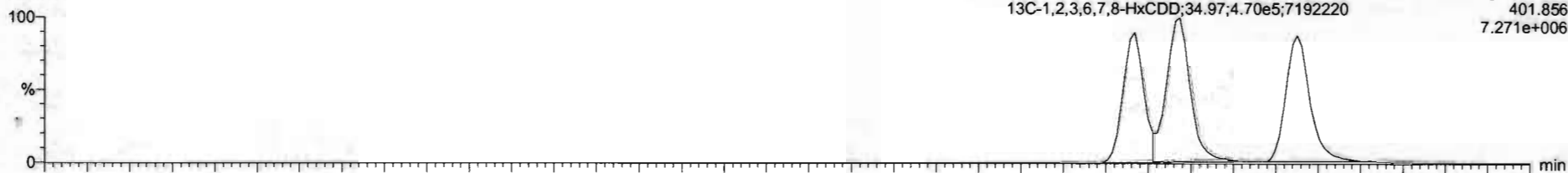


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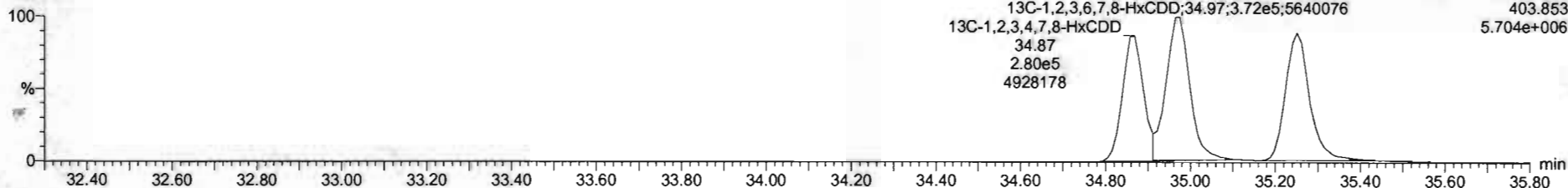


13C-1,2,3,4,7,8-HxCDD

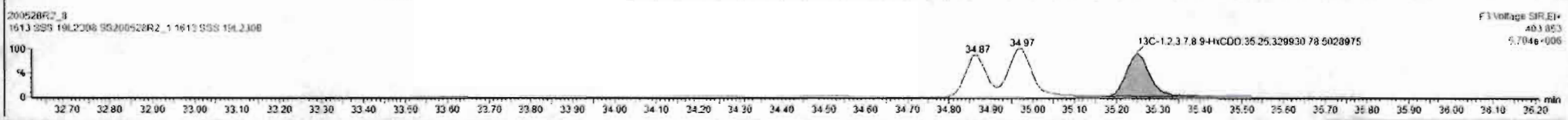
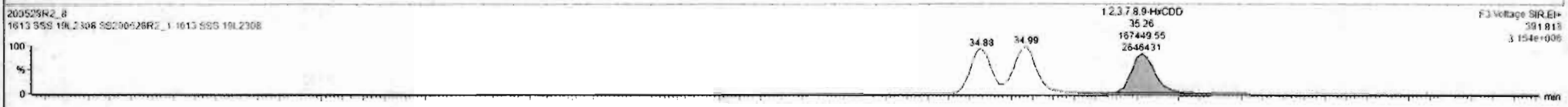
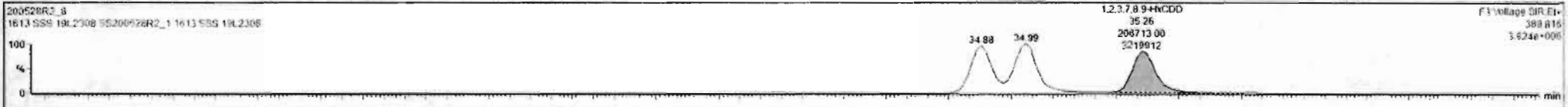
200528R2_8



200528R2_8



#	Name	Resp	RA	nby	RRF	wthvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.6883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.72	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.6969	1.000	35.26	1.009	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.57e5	1.02	NO	0.8639	1.000	36.50	1.000	55.6	112	0.160	55.6
7	OCDD	5.24e5	0.85	NO	0.9136	1.000	41.78	1.001	113	113	0.171	113
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	113	0.0942	55.7
10	2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	21.21	1.000	62.1	124	0.0853	62.1
11	1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	115	0.114	58.9
12	1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8892	1.000	34.12	1.000	59.1	116	0.108	59.1
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	5.52e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	115	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.190	59.2
17	OCDF	5.22e5	0.97	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1583	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7750	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.28	NO	1.0187	1.000	34.97	1.017	88.7	88.7	0.136	



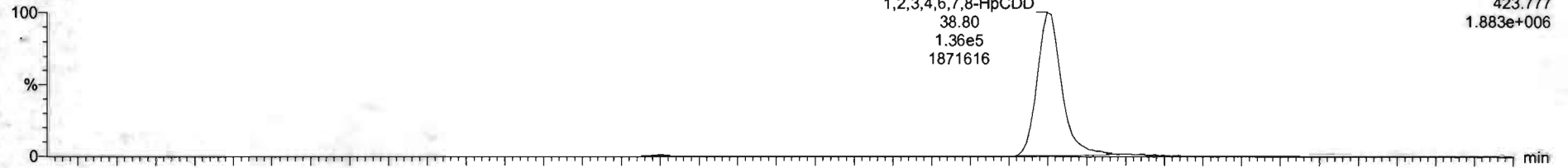
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Last Altered: Friday, May 29, 2020 7:38:11 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

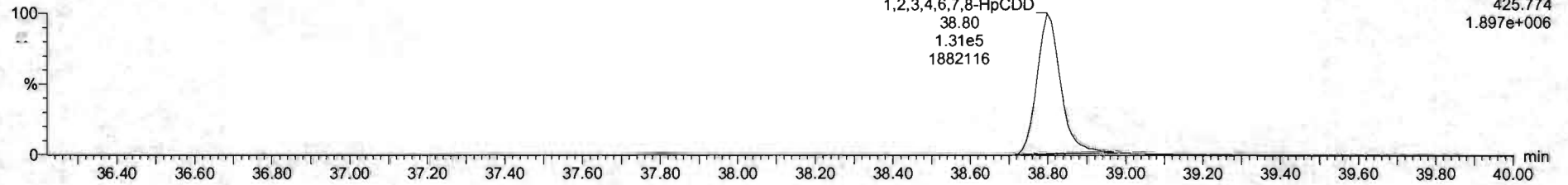
1,2,3,4,6,7,8-HpCDD

200528R2_8



F4: Voltage SIR, EI+
423.777
1.883e+006

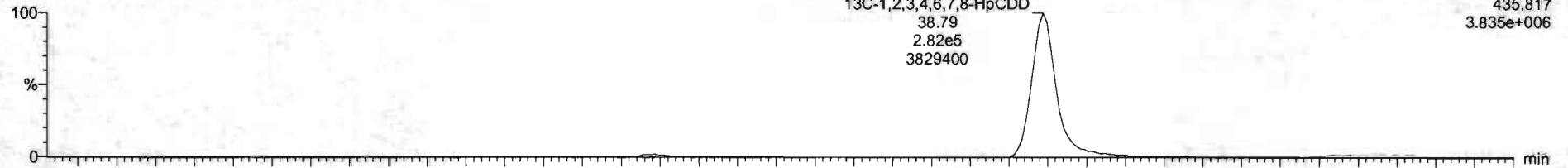
200528R2_8



F4: Voltage SIR, EI+
425.774
1.897e+006

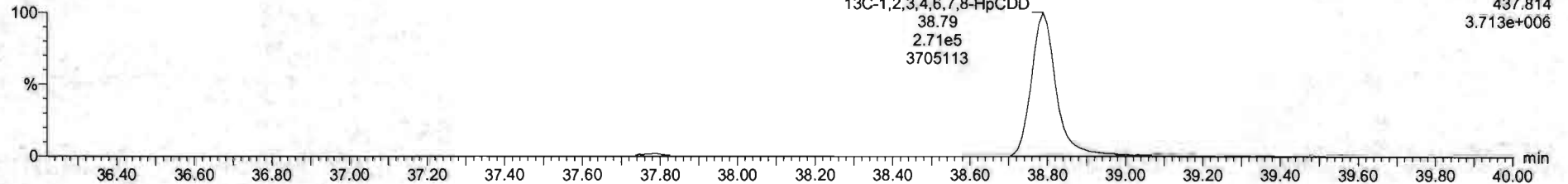
13C-1,2,3,4,6,7,8-HpCDD

200528R2_8



F4: Voltage SIR, EI+
435.817
3.835e+006

200528R2_8



F4: Voltage SIR, EI+
437.814
3.713e+006

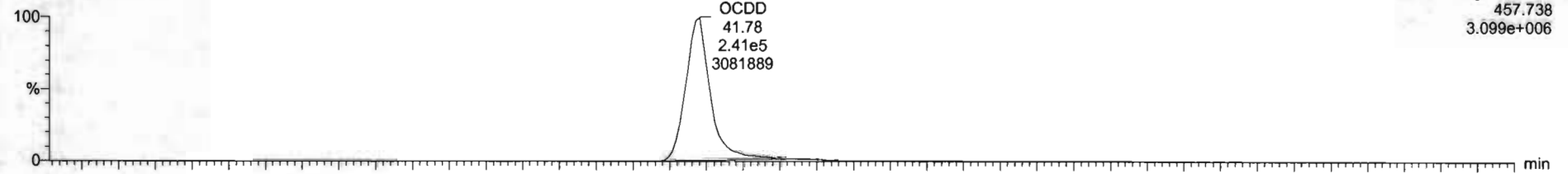
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

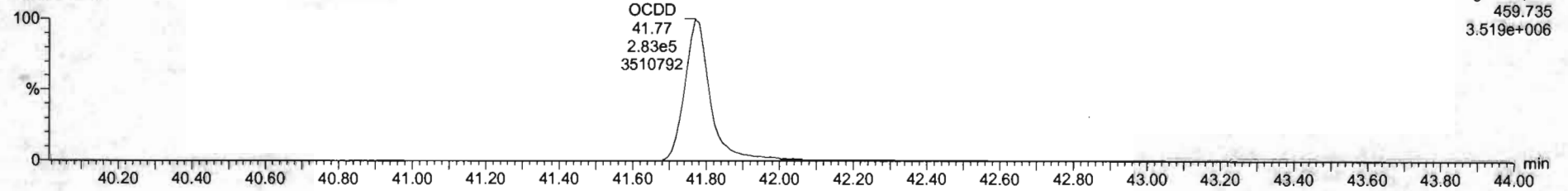
OCDD

200528R2_8



F5: Voltage SIR, EI+
457.738
3.099e+006

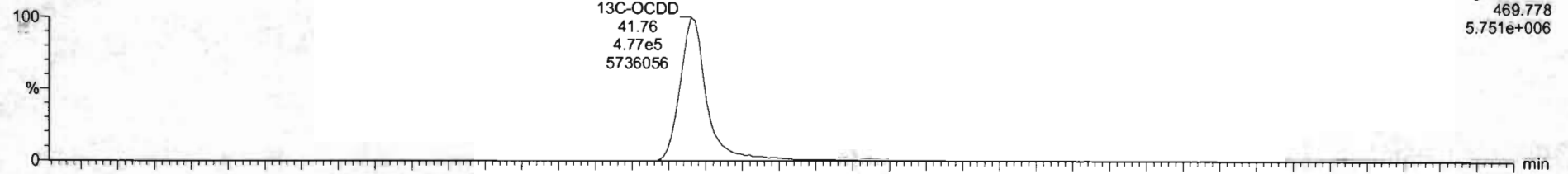
200528R2_8



F5: Voltage SIR, EI+
459.735
3.519e+006

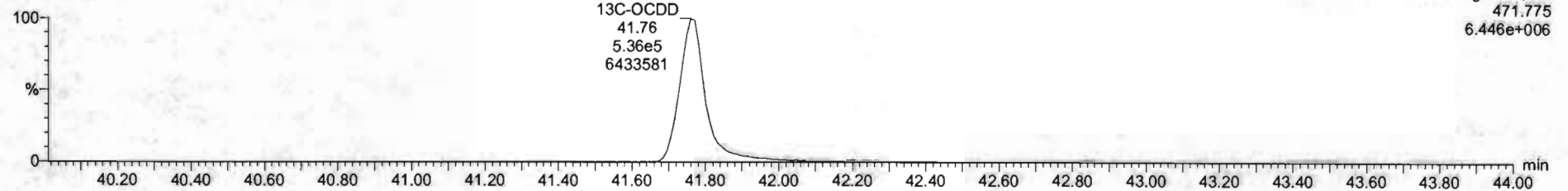
13C-OCDD

200528R2_8



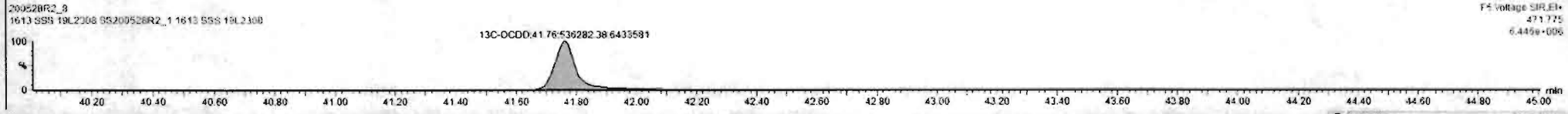
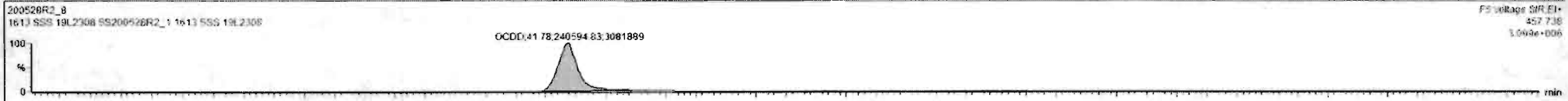
F5: Voltage SIR, EI+
469.778
5.751e+006

200528R2_8



F5: Voltage SIR, EI+
471.775
6.446e+006

#	Name	Resp	RA	dy	RRF	wtVol	RT	RRT	Conc	%Rec	OL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.78	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0252	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.1
3	1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.38e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	56.8
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	58.6
7	OCDD	5.15e5	0.88	NO	0.9138	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.46e5	0.75	NO	0.7510	1.000	25.88	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.77e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10	2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	31.21	1.000	62.1	124	0.0853	62.1
11	1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8545	1.000	33.99	1.000	58.9	116	0.114	58.9
12	1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8852	1.000	34.12	1.000	59.1	115	0.100	59.1
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.21	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	119	0.193	59.2
17	OCDF	5.22e5	0.87	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0627	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



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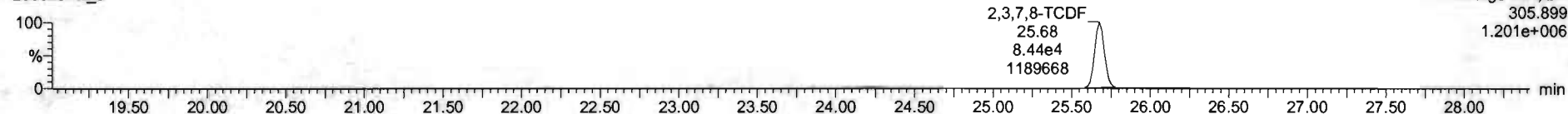
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2,3,7,8-TCDF

200528R2_8

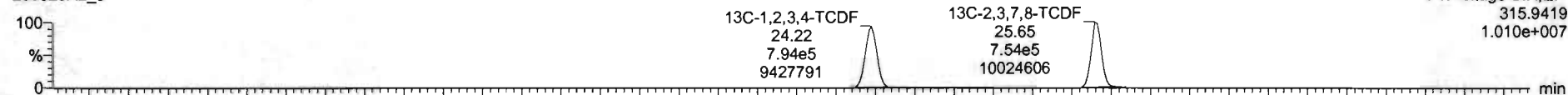


200528R2_8

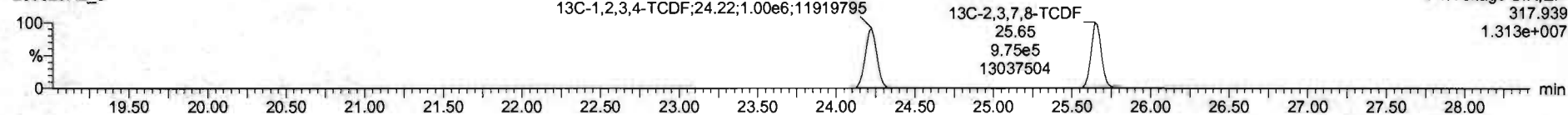


13C-2,3,7,8-TCDF

200528R2_8

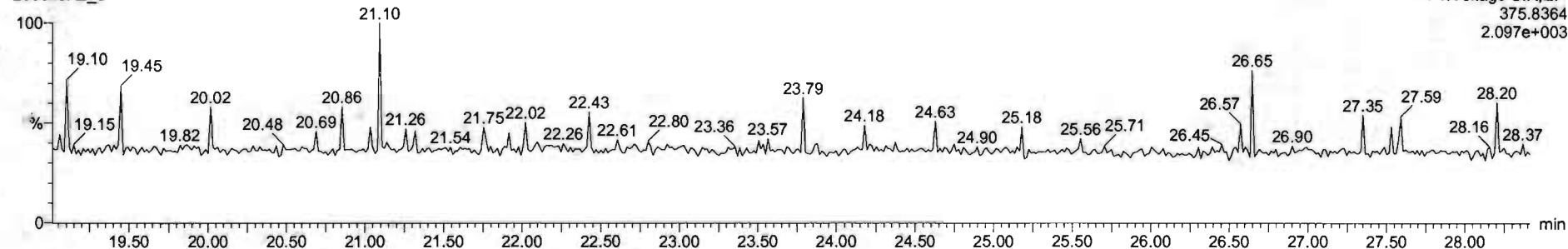


200528R2_8



DPE1

200528R2_8



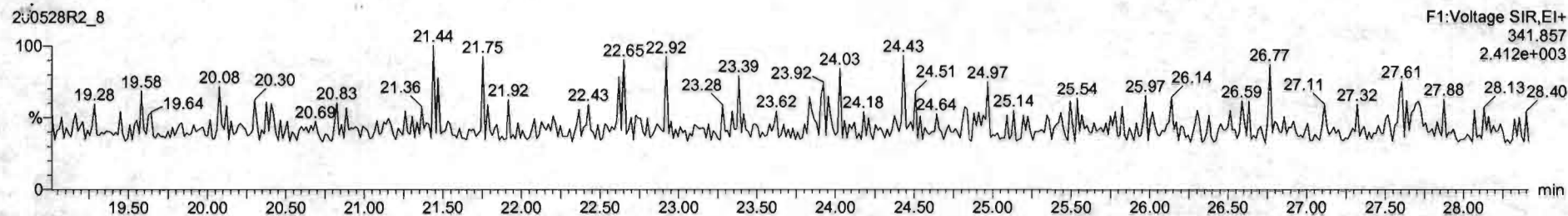
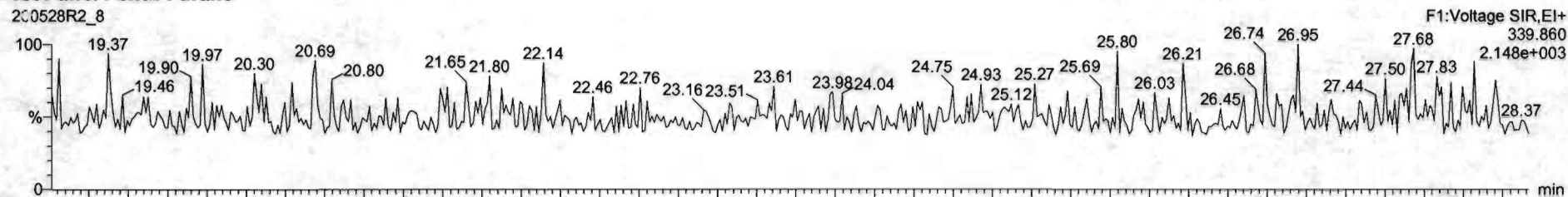
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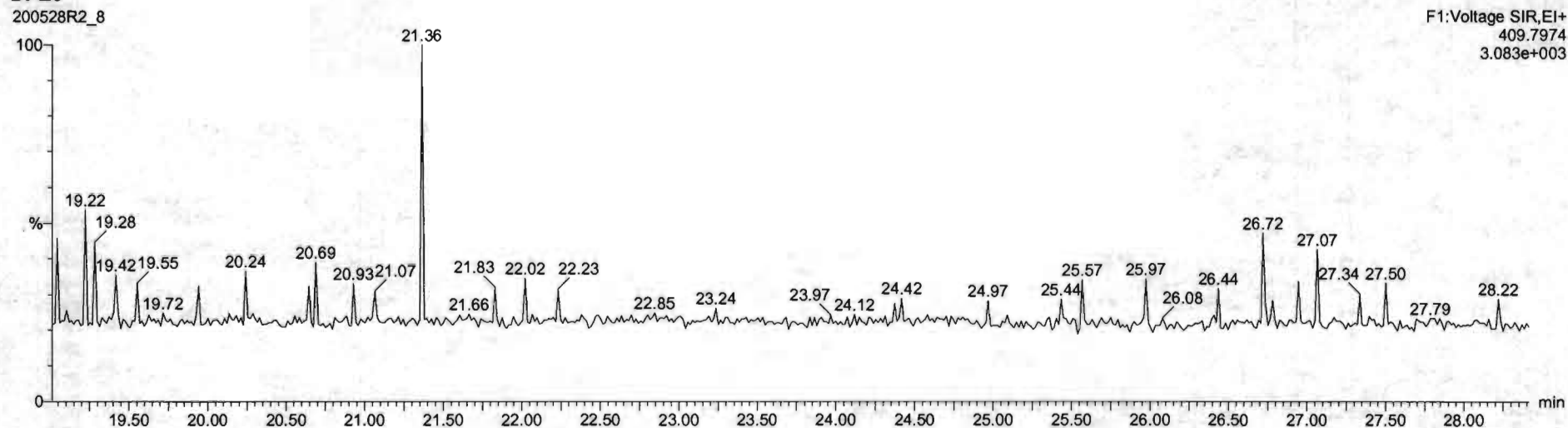
Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



DPE6



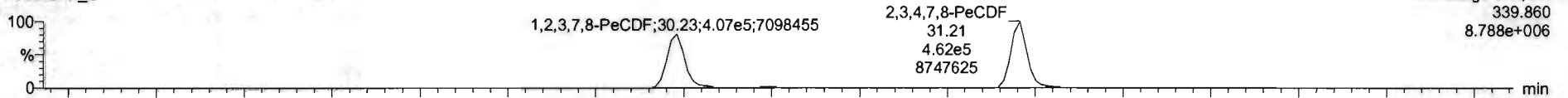
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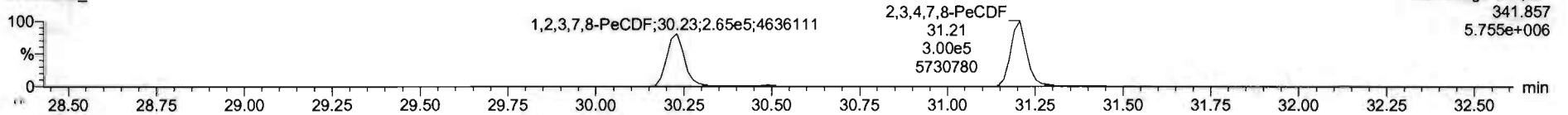
Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,7,8-PeCDF

200528R2_8

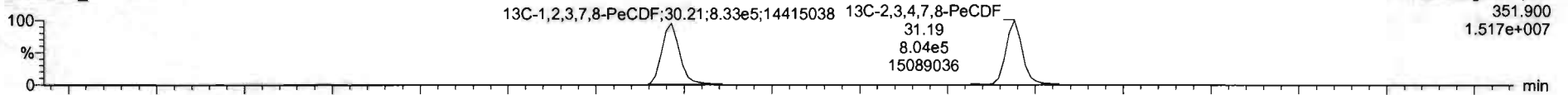


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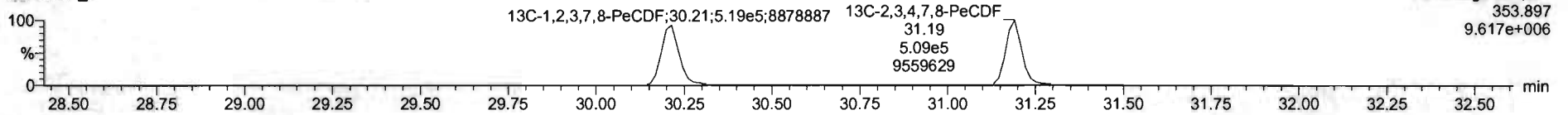


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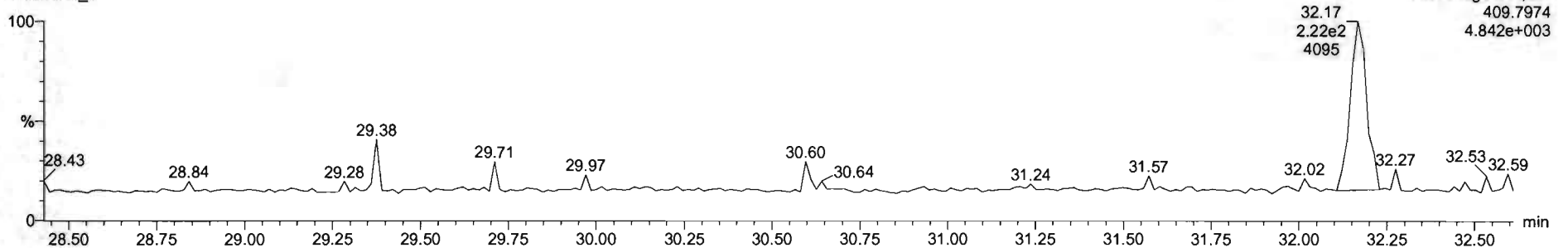


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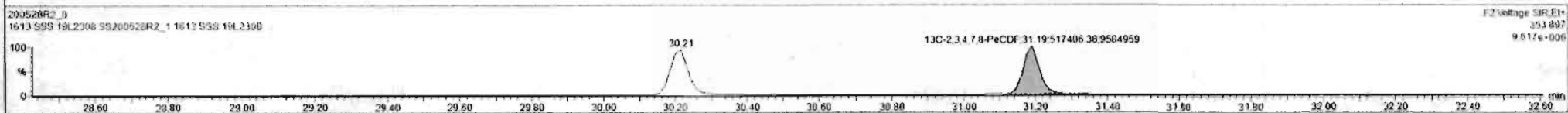
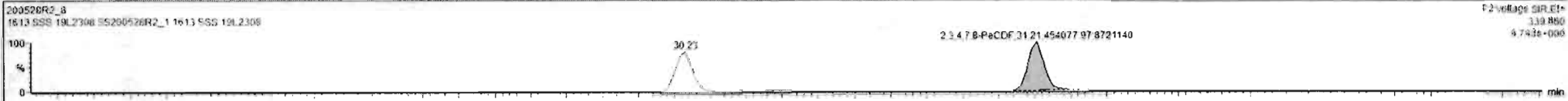


DPE2

200528R2_8



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	2.06e5	1.22	NO	1.0334	1.000	34.85	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8925	1.000	34.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8264	1.000	35.05	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.87e5	1.03	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.38	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0323	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	20.23	1.001	55.7	111	0.0942	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.36e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	118	0.114	56.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8852	1.000	34.12	1.000	59.1	118	0.108	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.128	



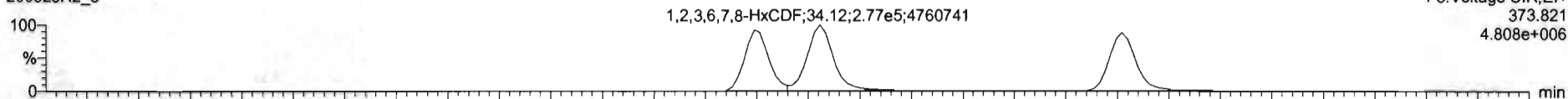
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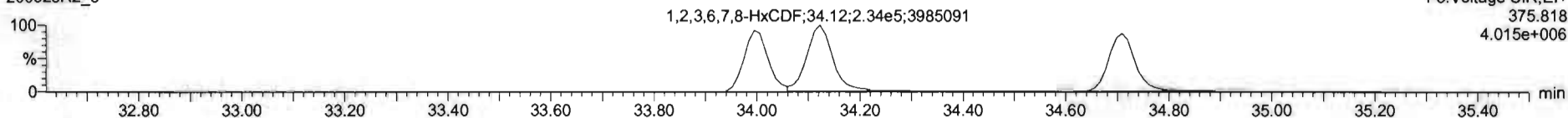
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1,2,3,4,7,8-HxCDF

200528R2_8

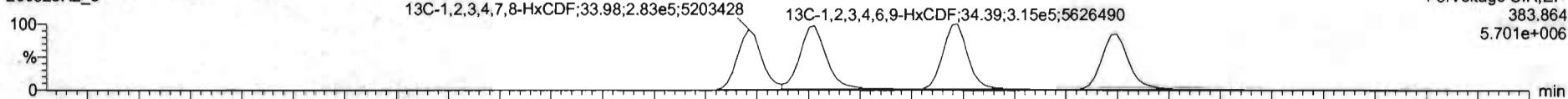


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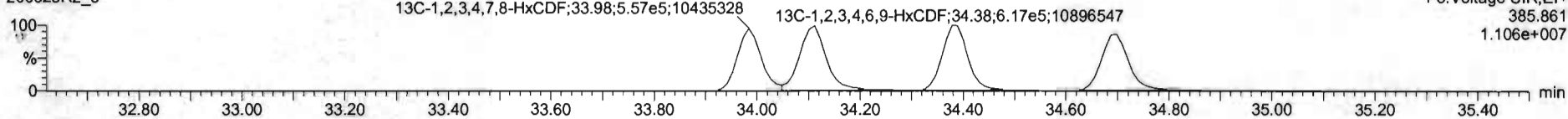


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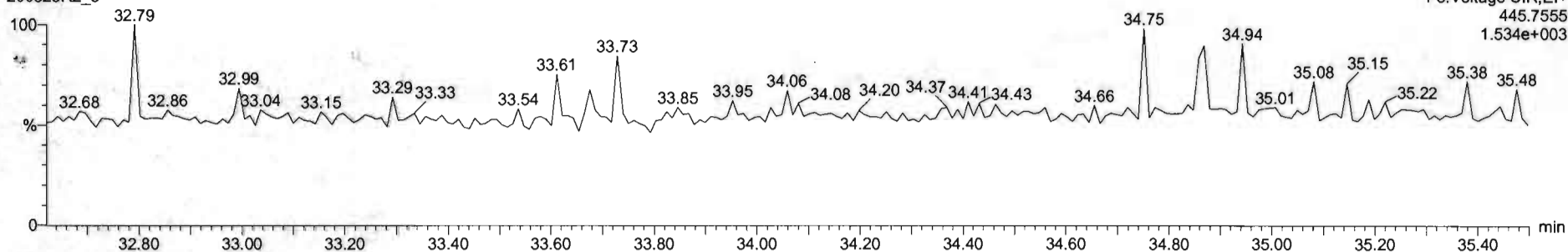


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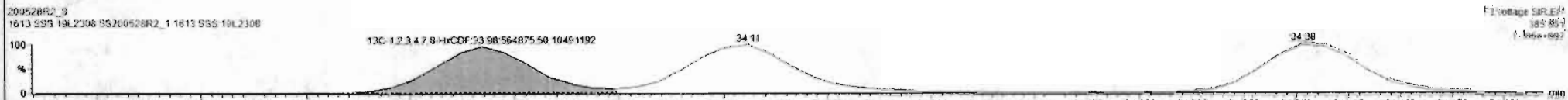
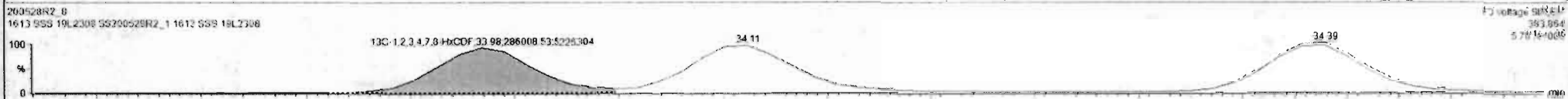
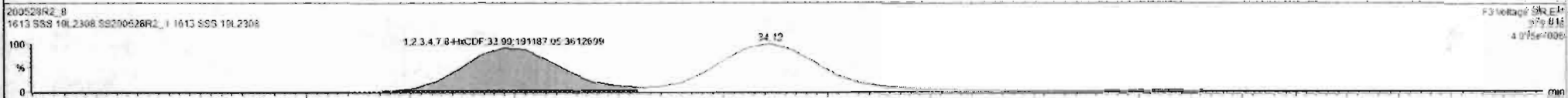
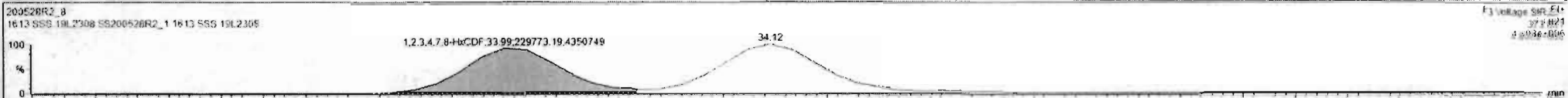


DPE3

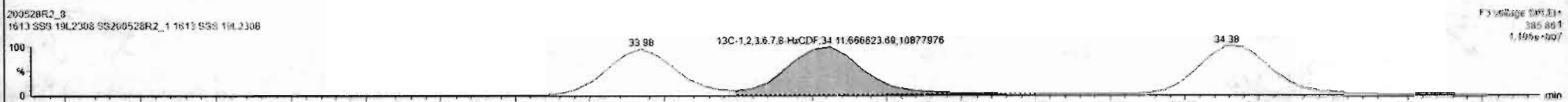
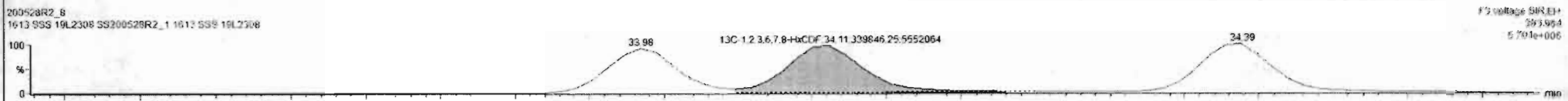
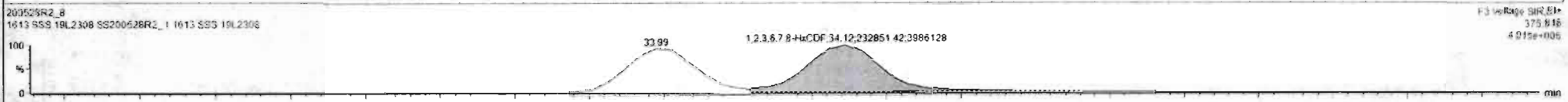
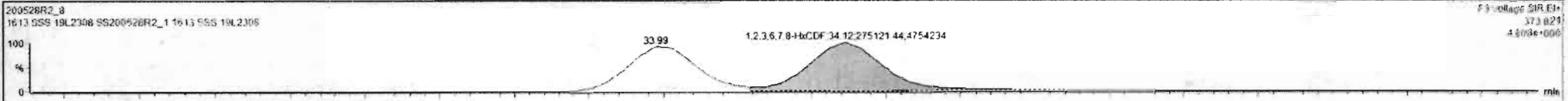
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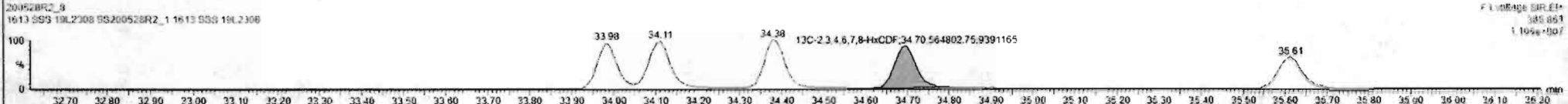
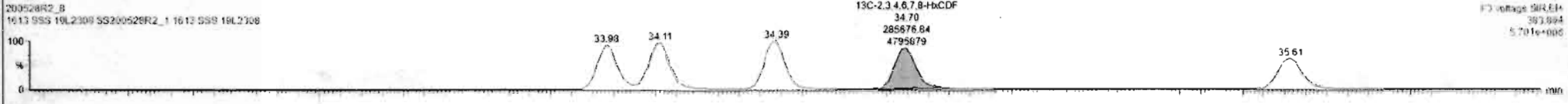
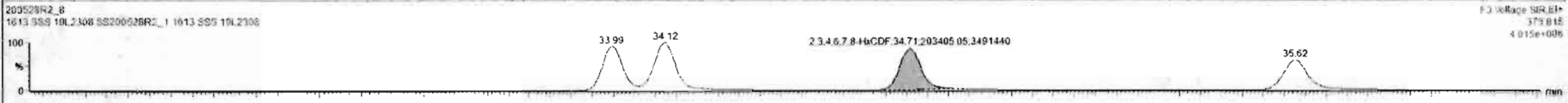
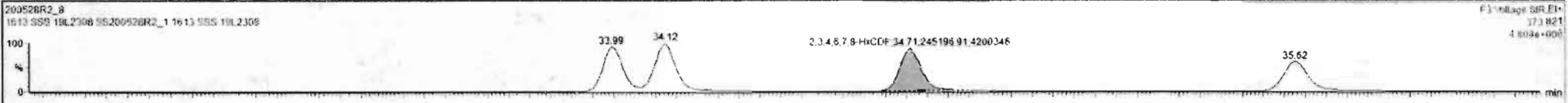
#	Name	Resp	RA	nly	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.8981	1.000	31.51	1.000	56.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	24.86	1.000	56.0	116	0.1011	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8929	1.000	24.99	1.000	58.0	116	0.105	56.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	25.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	26.50	1.000	55.6	112	0.168	55.6
7	OCDD	5.15e5	0.68	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7519	1.000	25.65	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10	1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9346	1.000	21.21	1.000	60.2	120	0.0851	60.2
11	1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	23.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8882	1.000	24.12	1.000	59.1	118	0.108	59.1
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	24.71	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	27.40	1.000	58.9	118	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.199	59.2
17	OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1562	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	86.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	85.6	88.6	0.160	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.36	NO	1.0187	1.000	24.97	1.017	88.7	88.7	0.128	



Name	Reap	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.67	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.53	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8973	1.000	34.99	1.000	58.0	116	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8969	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,5,7,8-HpCDD	2.67e5	1.02	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0542	55.7
10 1,2,3,7,8,9-HxCDF	7.50e5	1.54	NO	0.9348	1.000	21.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8,9-HpCDF	4.21e5	1.20	NO	0.6845	1.000	23.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.06e5	1.18	NO	0.8892	1.000	34.12	1.000	56.3	114	0.127	56.3
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,5,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.76e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.5	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



SL	Name	Resp	RA	Adj	RF	WVol	RT	RRT	Conc	%Rec	DL	EMFC
1	2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	3.66e5	1.22	NO	1.0314	1.000	34.88	1.000	56.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.100	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.67e5	1.93	NO	0.9039	1.000	38.80	1.000	55.8	112	0.160	55.8
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.66	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10	1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9148	1.000	31.21	1.000	60.2	120	0.0851	60.2
11	1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	5.06e5	1.16	NO	0.8852	1.000	34.12	1.000	56.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8797	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.196	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17	OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.75	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0637	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.84	NO	0.8490	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



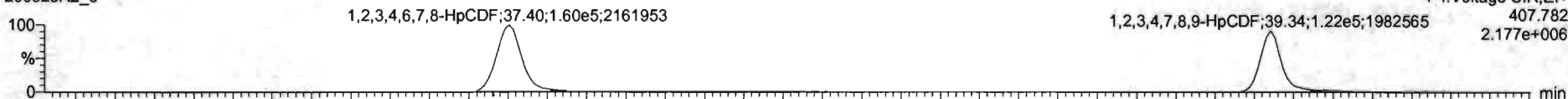
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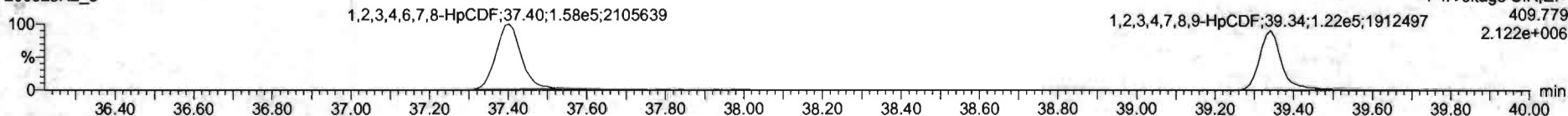
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200528R2_8



200528R2_8

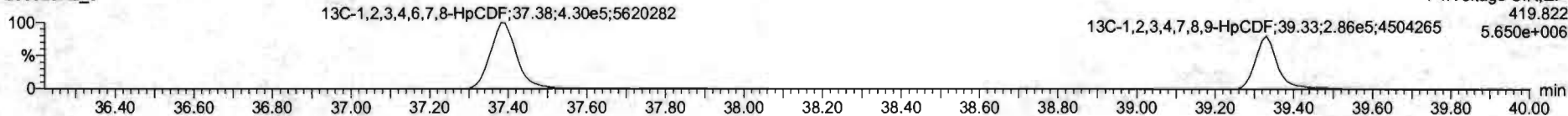


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200528R2_8

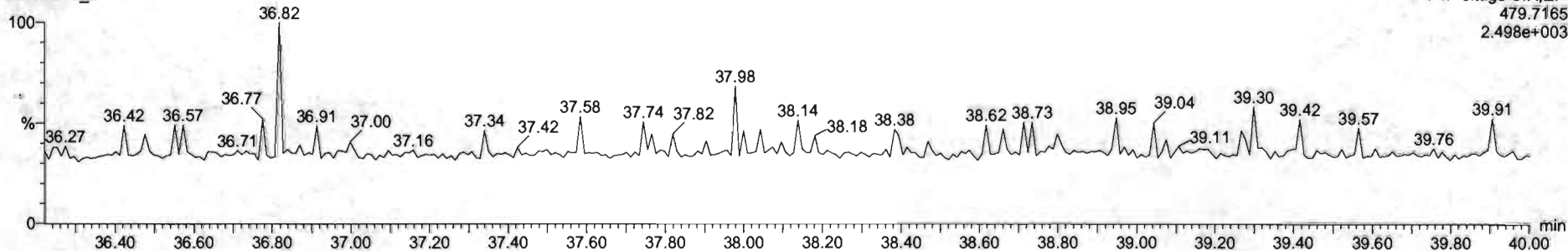


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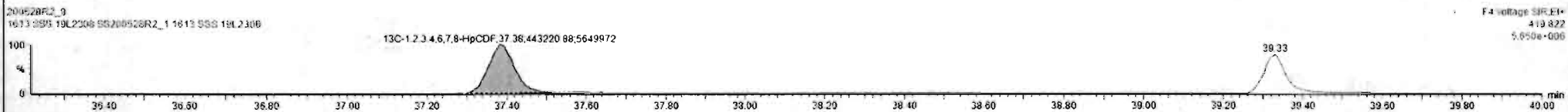
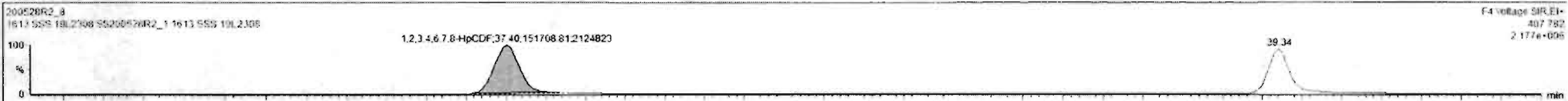


DPE4

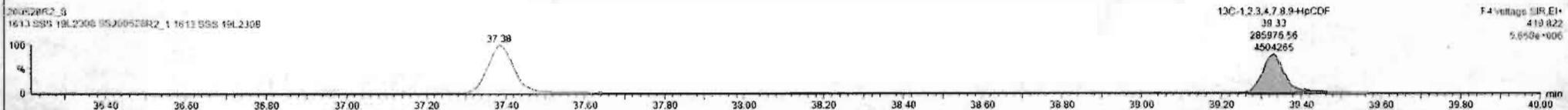
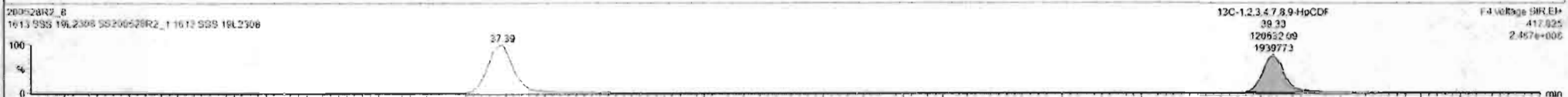
200528R2_8



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	5.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	58.4
3 1,2,3,4,7,8-HxCDD	3.56e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8523	1.000	34.99	1.000	58.0	118	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0533	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8025	1.000	30.23	1.001	25.7	111	0.0542	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	50.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	33.95	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.8862	1.000	34.12	1.000	56.8	114	0.107	56.8
13 2,3,4,6,7,8-HxCDF	4.45e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.48	1.000	54.5	108	0.152	54.5
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.09	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.27e5	0.87	NO	0.8055	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e8	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0637	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	66.5	68.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.0167	1.000	34.97	1.017	86.7	86.7	0.138	



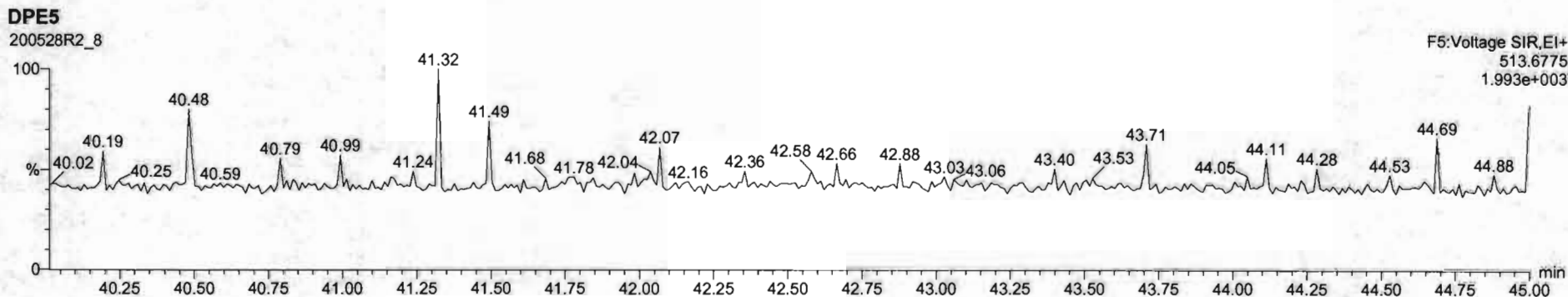
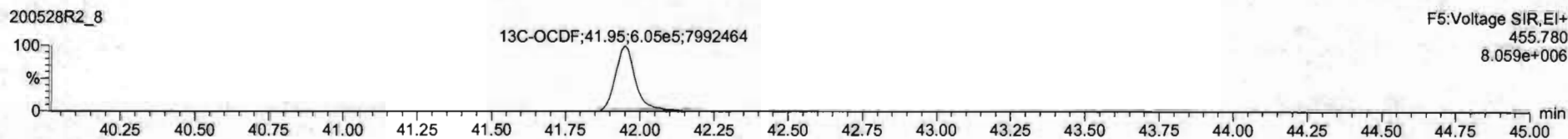
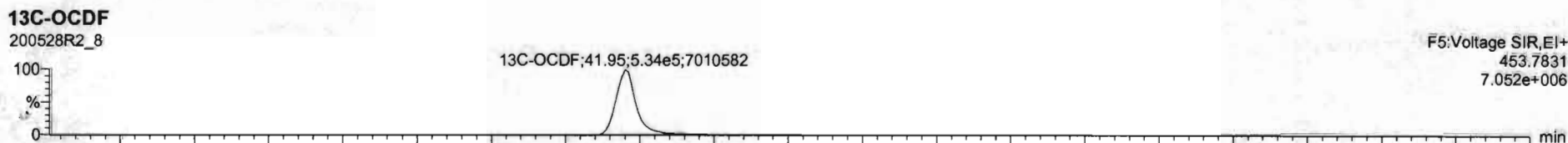
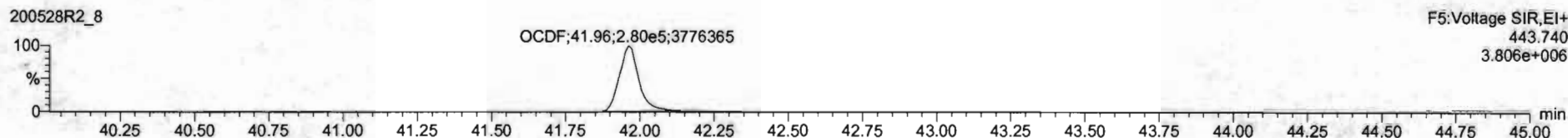
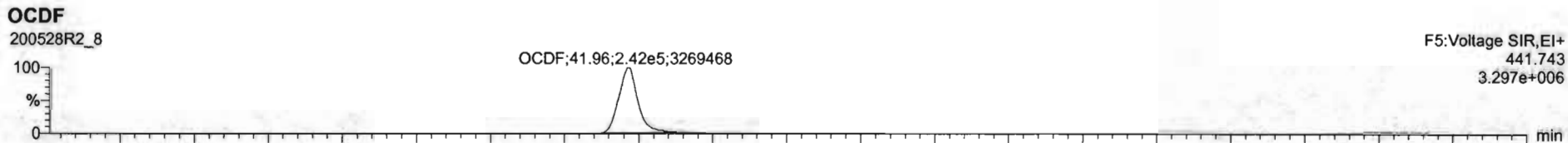
SL	Name	Resp	RA	nry	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.82	NO	0.9081	1.000	31.01	1.000	58.4	113	0.0622	56.1
3	1,2,3,4,7,8-HxCDD	2.56e5	1.22	NO	1.0334	1.000	24.86	1.000	58.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	24.99	1.000	58.0	116	0.105	56.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	26.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.61e5	1.03	NO	0.8639	1.000	26.60	1.000	56.6	112	0.168	56.6
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0303	11.4
9	1,2,3,7,8-PeCDF	4.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10	2,3,4,7,8-PeCDF	7.58e5	1.54	NO	0.9346	1.000	31.21	1.000	50.2	126	0.0851	60.2
11	1,2,2',4',7,8-HxCDF	4.21e5	1.20	NO	0.8545	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	2.08e5	1.18	NO	0.8892	1.000	34.12	1.000	58.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.48e5	1.21	NO	0.9341	1.000	24.71	1.000	58.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.82	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.40	1.000	54.5	109	0.182	54.5
16	1,2,3,4,7,8,9-HpCDF	2.35e5	1.00	NO	1.0128	1.000	39.24	1.000	57.3	115	0.198	57.3
17	OCDF	5.27e5	0.67	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	88.6	88.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	24.97	1.017	88.7	88.7	0.138	



Dataset: Untitled

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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

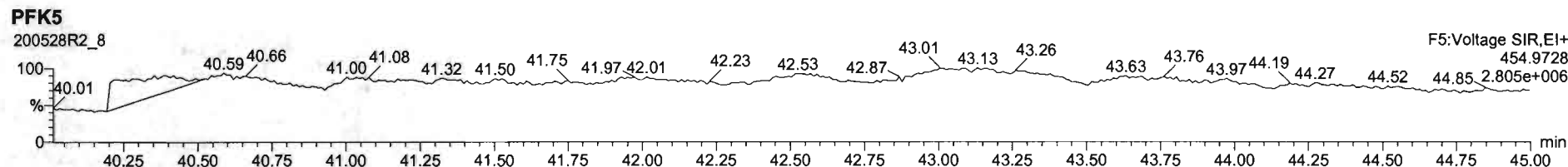
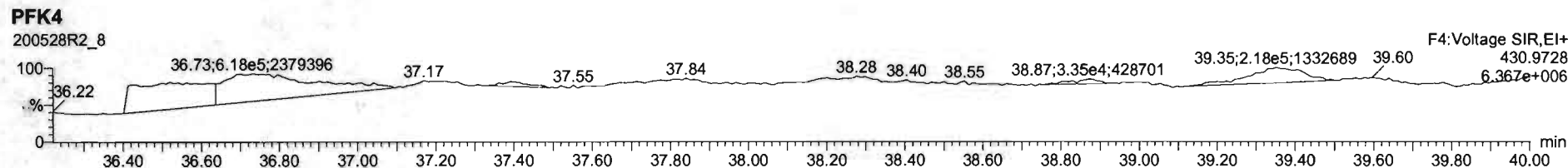
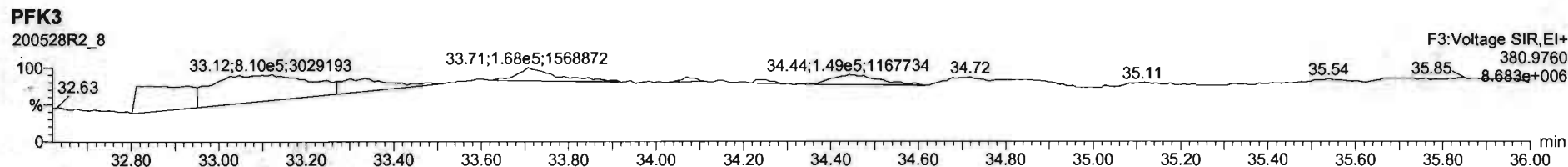
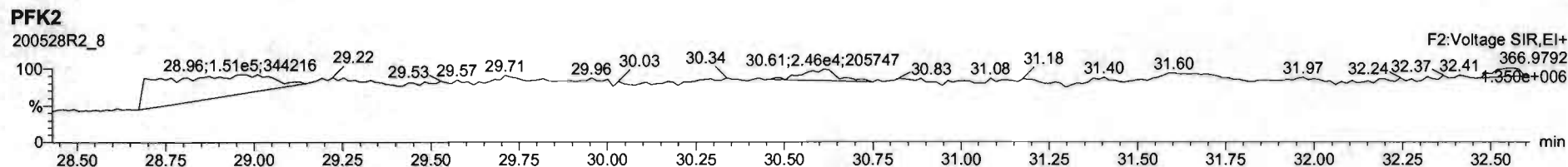
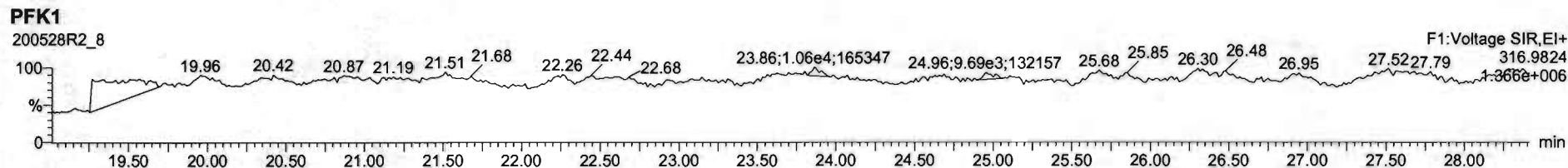
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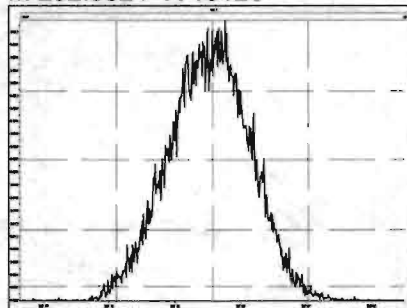
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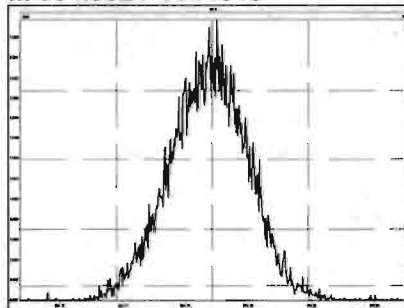
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Printed: Friday, May 29, 2020 07:19:01 Pacific Daylight Time

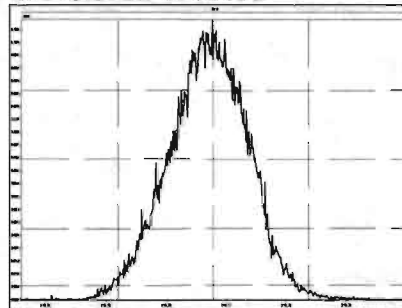
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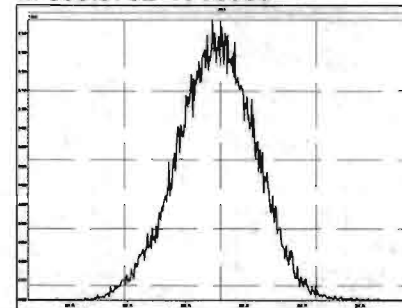
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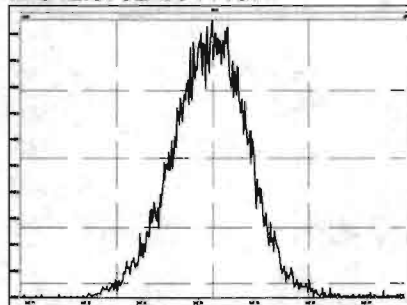
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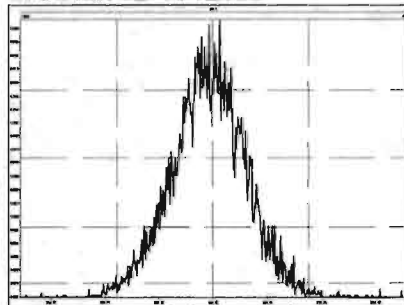
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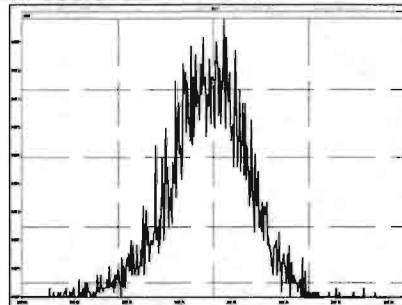
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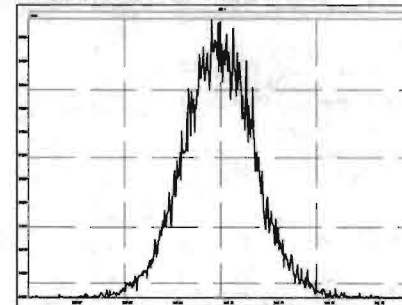
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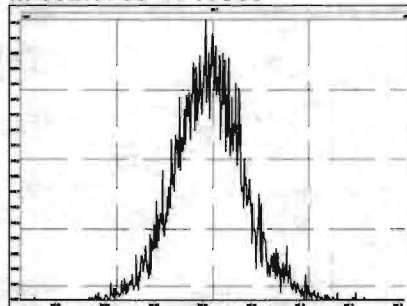
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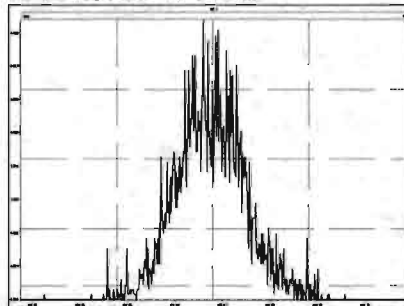
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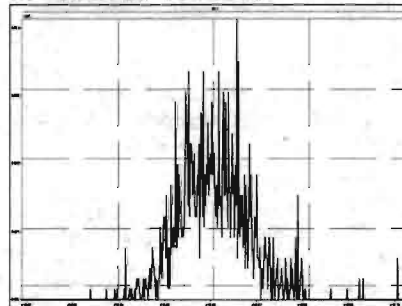
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M 404.9760 R 14045



M 416.9760 R 18245



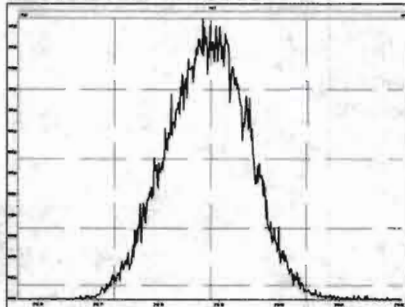
Experiment Calibration Report

MassLynx 4.1 SCN815

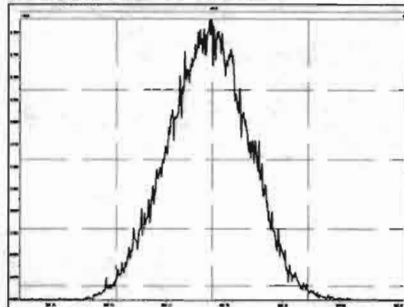
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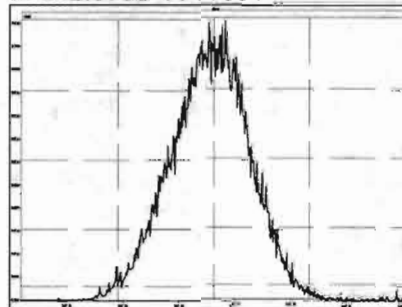
M 318.9792 R 10000



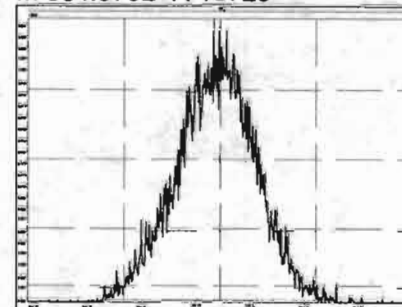
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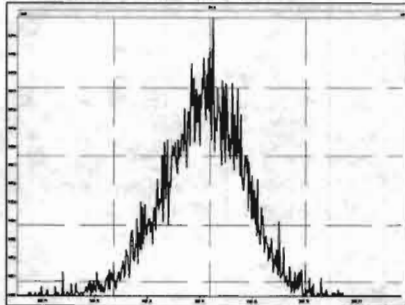
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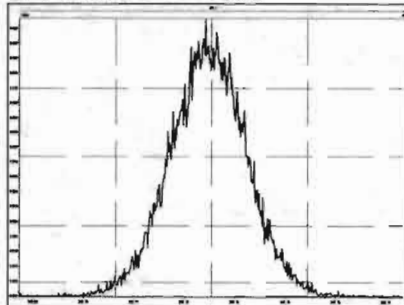
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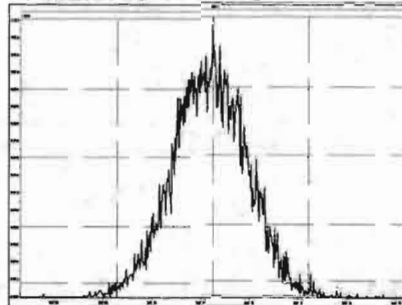
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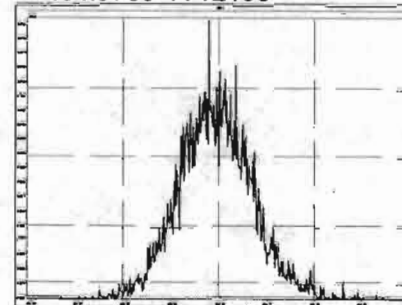
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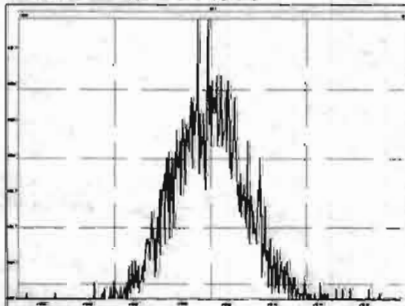
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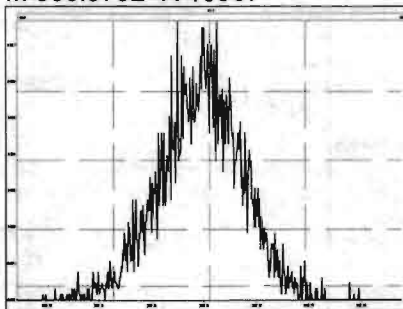
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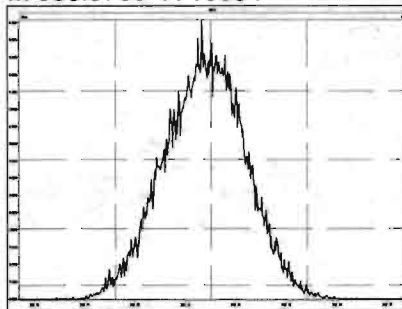
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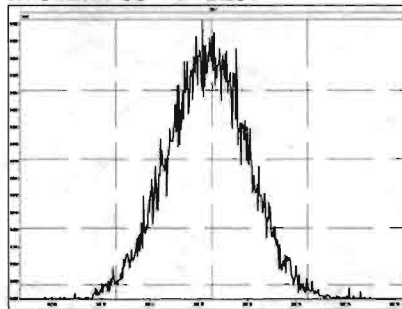
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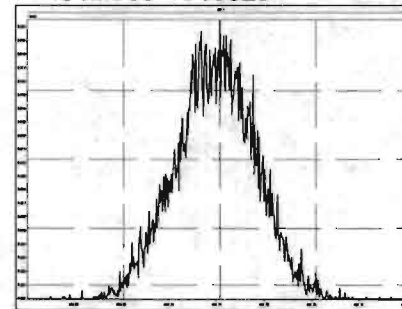
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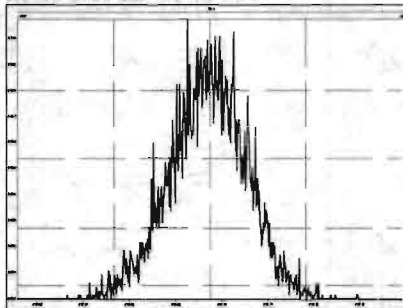
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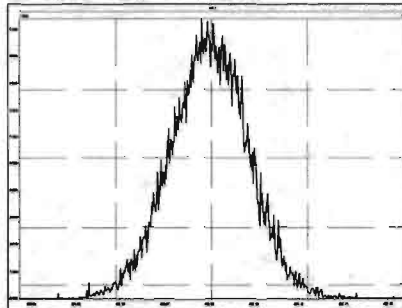
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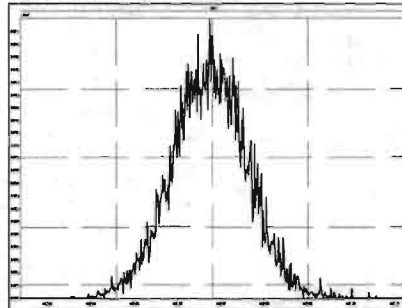
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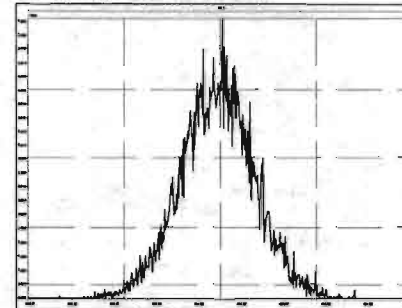
M 430.9728 R 11208



M 442.9728 R 12195



M 454.9728 R 10963



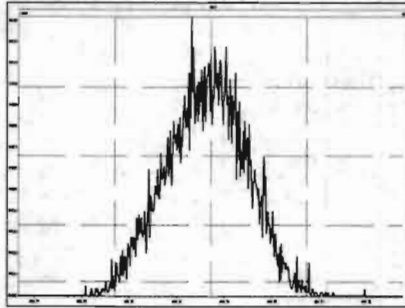
Experiment Calibration Report

MassLynx 4.1 SCN815

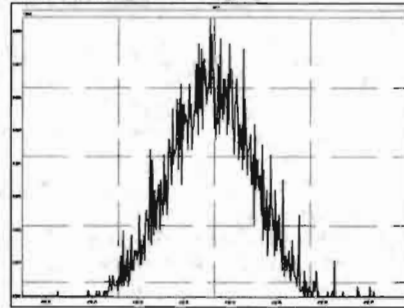
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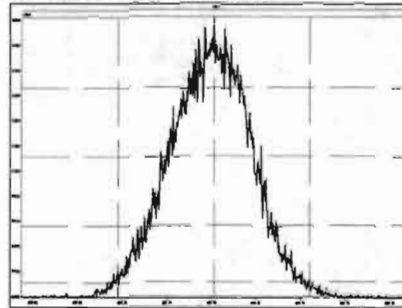
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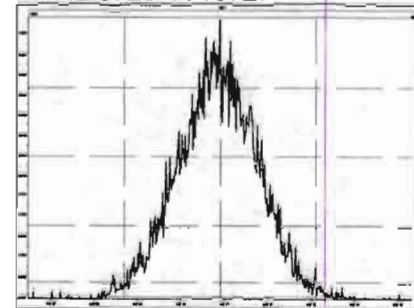
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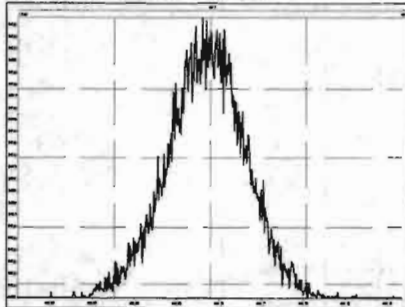
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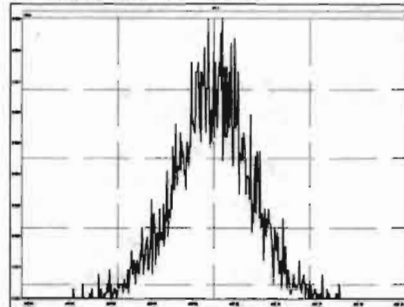
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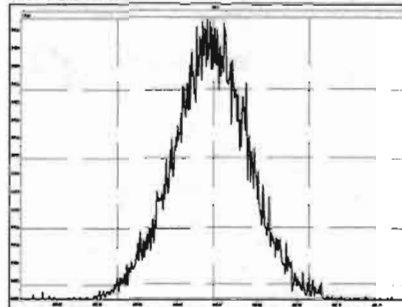
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M 466.9728 R 12628



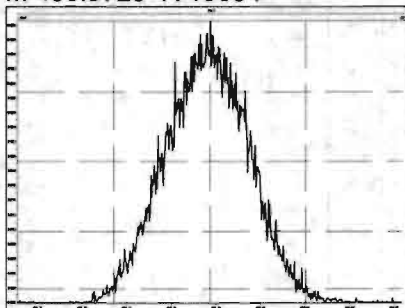
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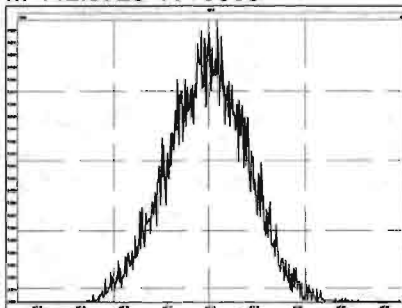
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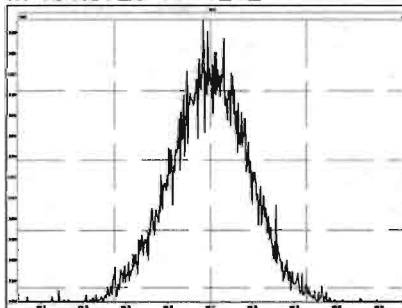
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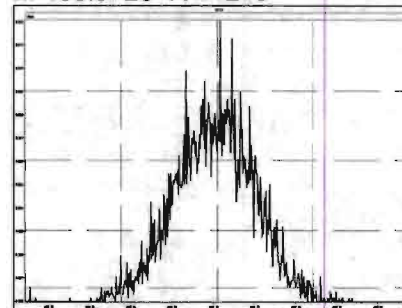
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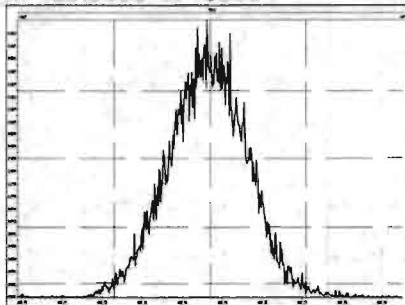
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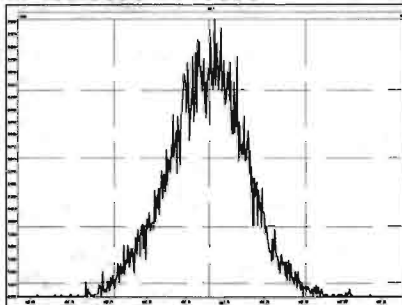
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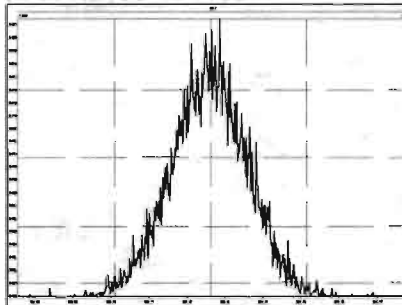
M 480.9696 R 10963



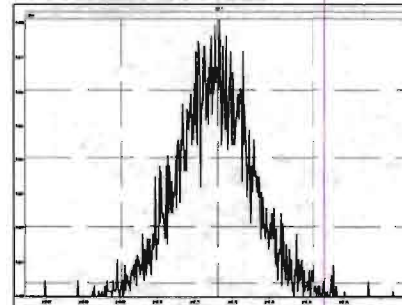
M 492.9696 R 10593



M 504.9696 R 11681



M 516.9697 R 11905



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

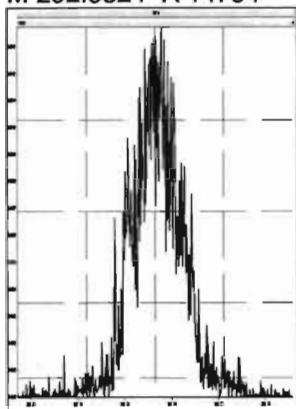
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Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

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Callbration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

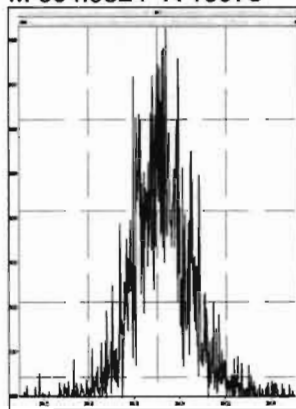
Compound name: 2,3,7,8-TCDF

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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

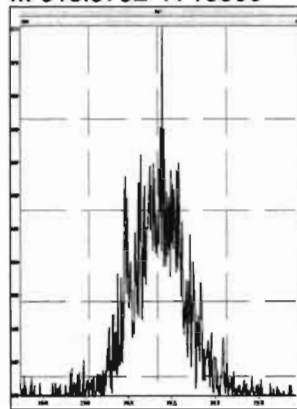
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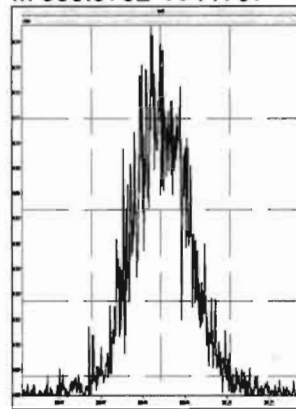
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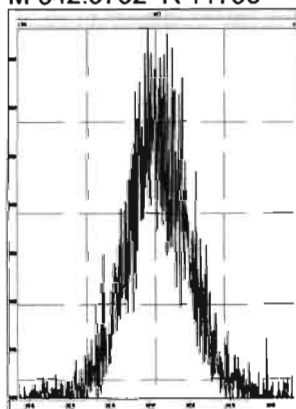
M 318.9792 R 15503



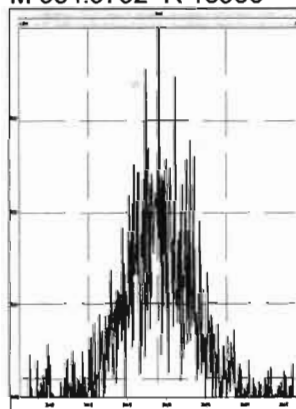
M 330.9792 R 11737



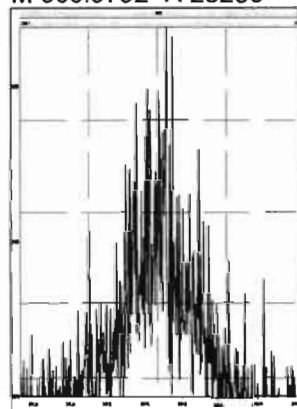
M 342.9792 R 11796



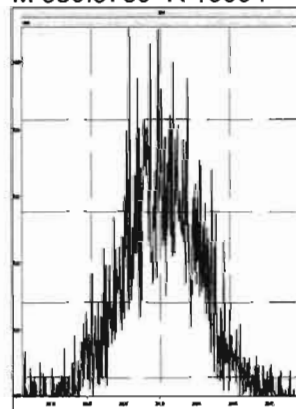
M 354.9792 R 15966

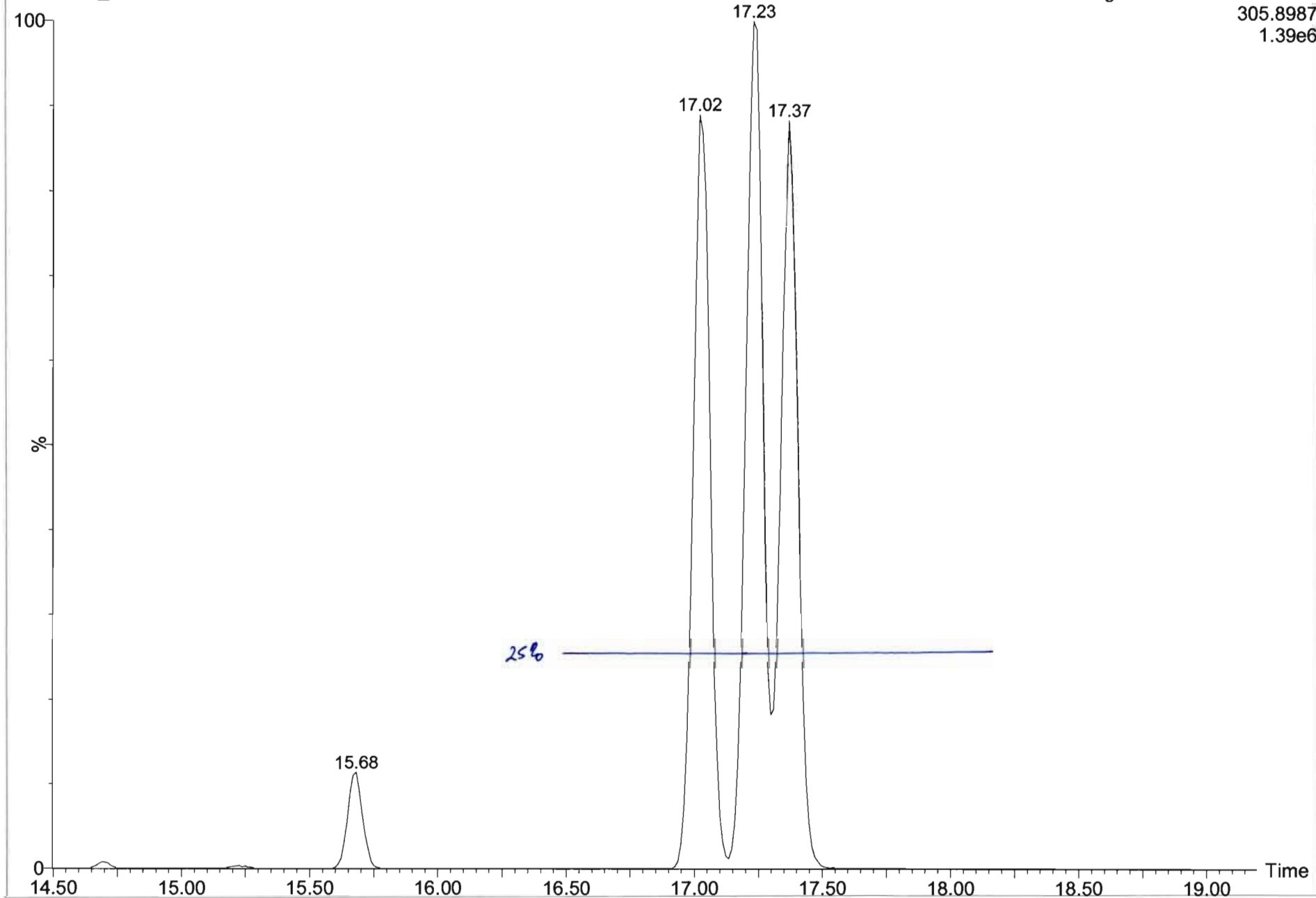


M 366.9792 R 28256



M 380.9760 R 13094





Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

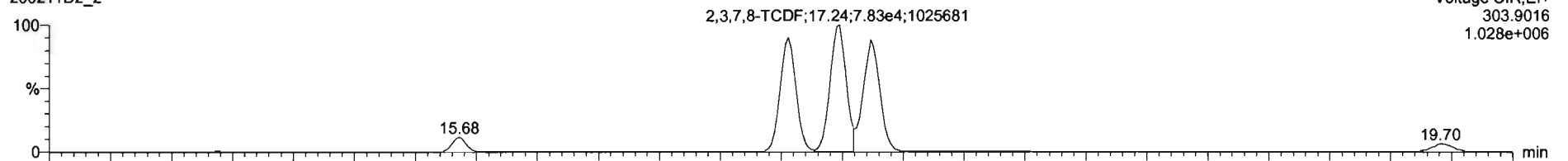
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Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

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Calibration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

Name: 200211D2_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

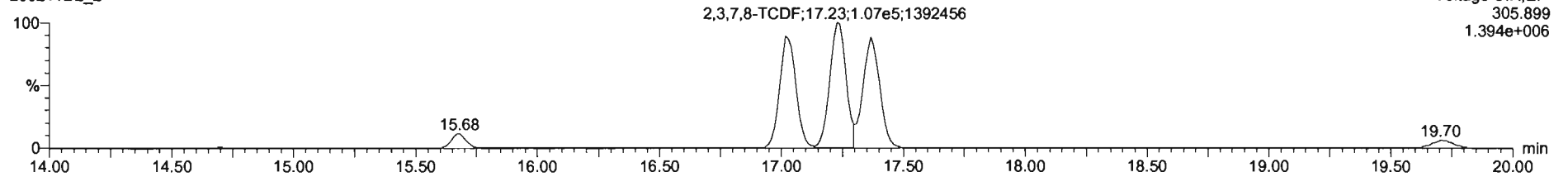
2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
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1.028e+006

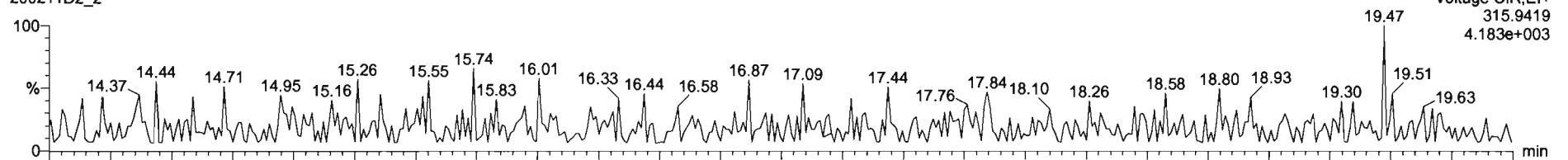
200211D2_2



Voltage SIR,EI+
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1.394e+006

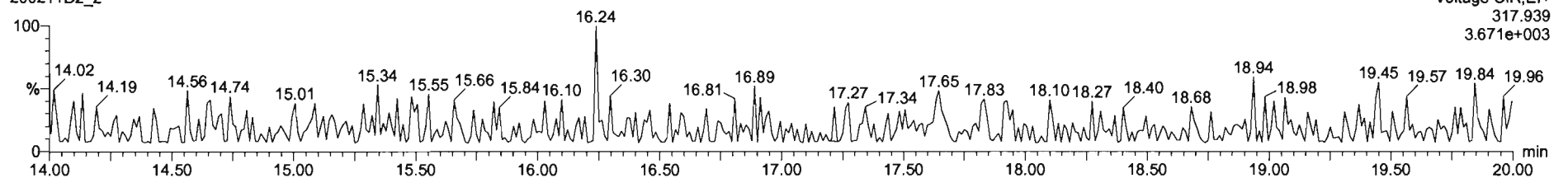
13C-2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
315.9419
4.183e+003

200211D2_2



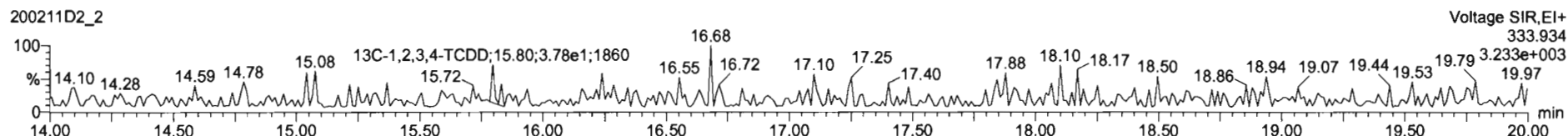
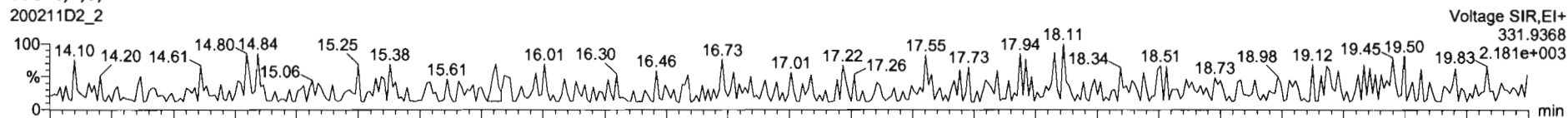
Voltage SIR,EI+
317.939
3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

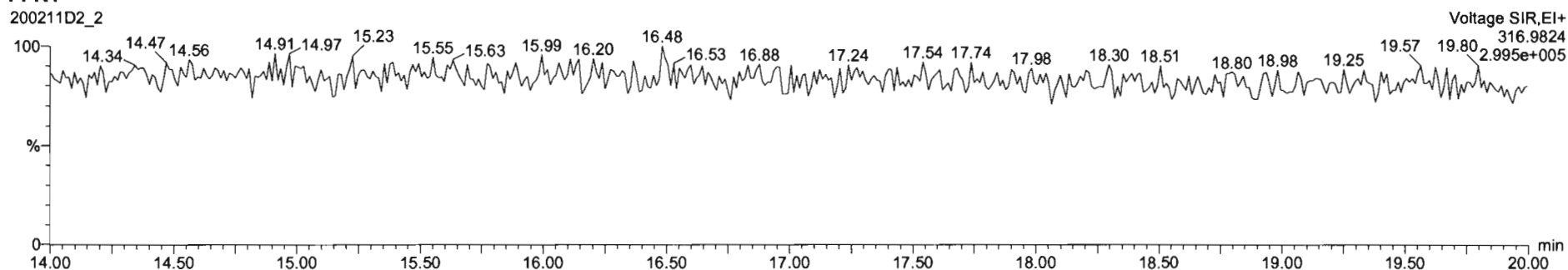
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Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

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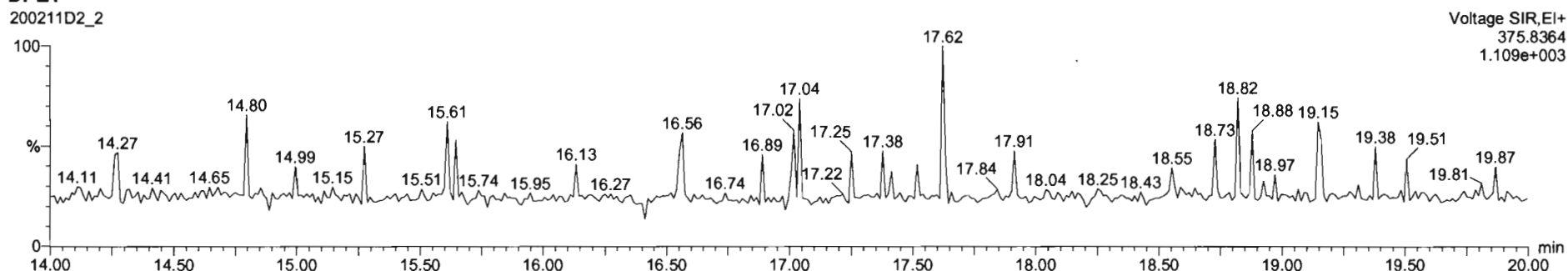
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

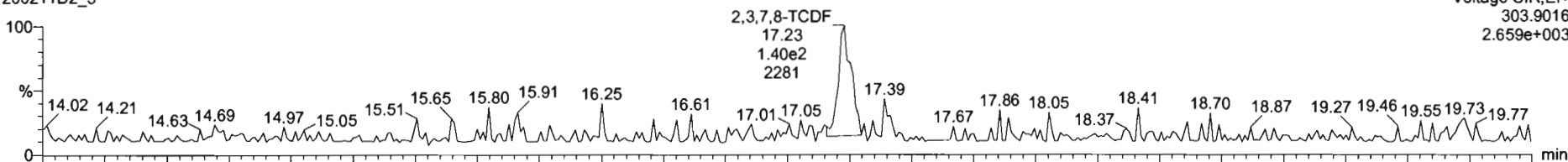
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvfg7-2-11-20.cdb 12 Feb 2020 10:17:56

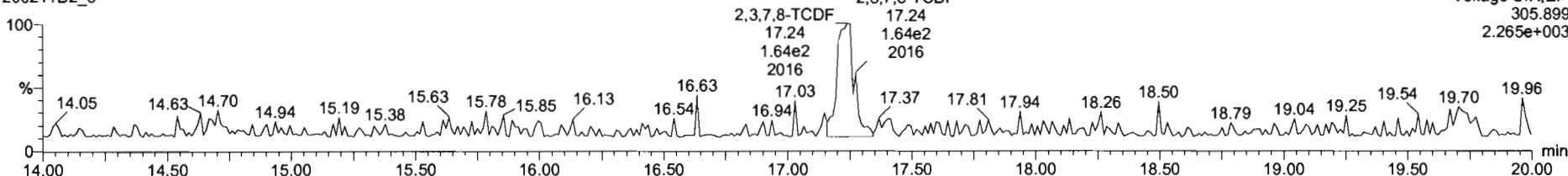
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2,3,7,8-TCDF

200211D2_3

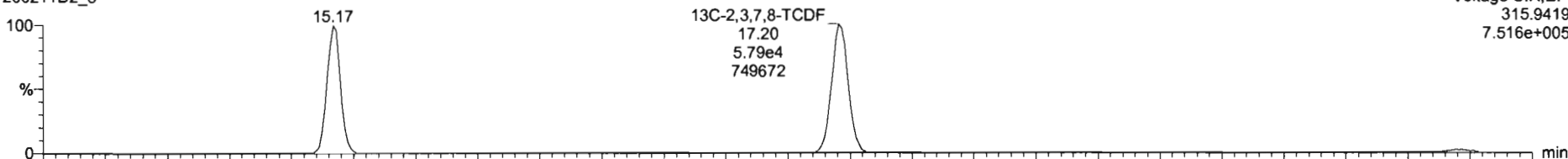


200211D2_3

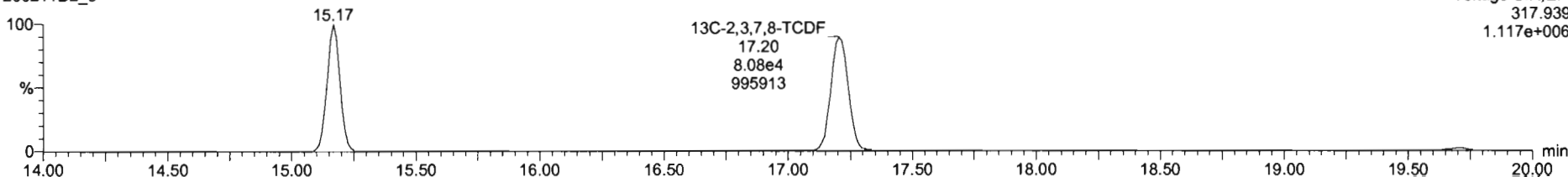


13C-2,3,7,8-TCDF

200211D2_3



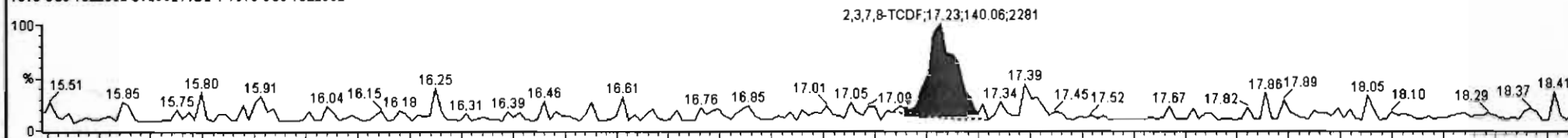
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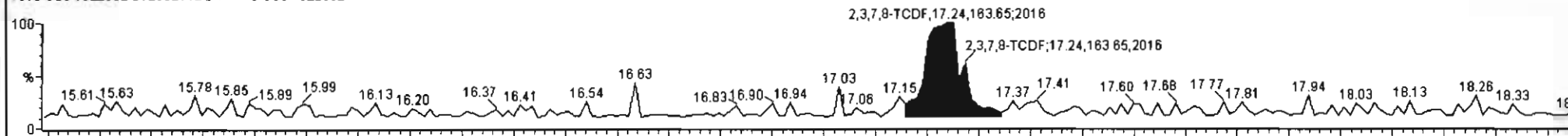
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	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							

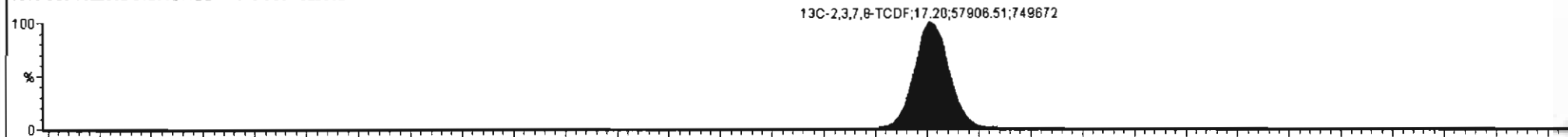
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



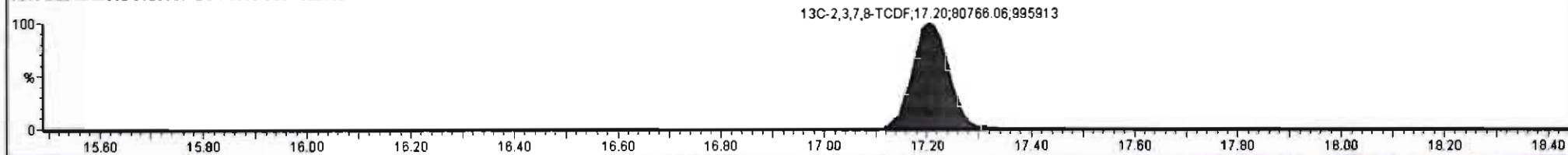
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



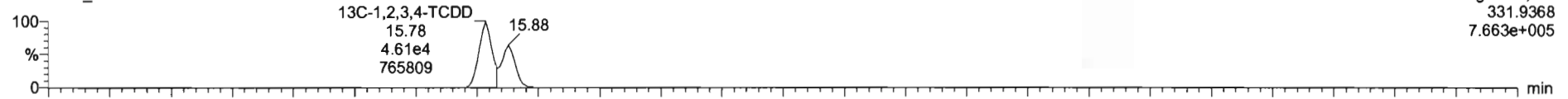
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

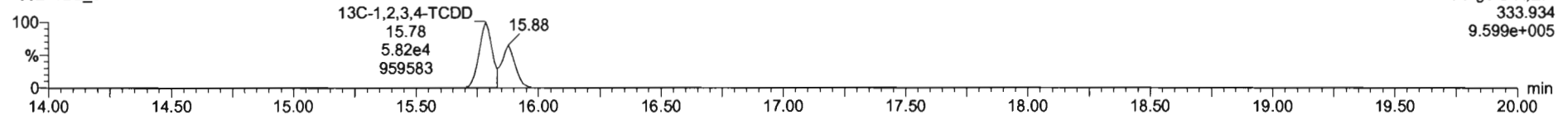
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13C-1,2,3,4-TCDD

200211D2_3

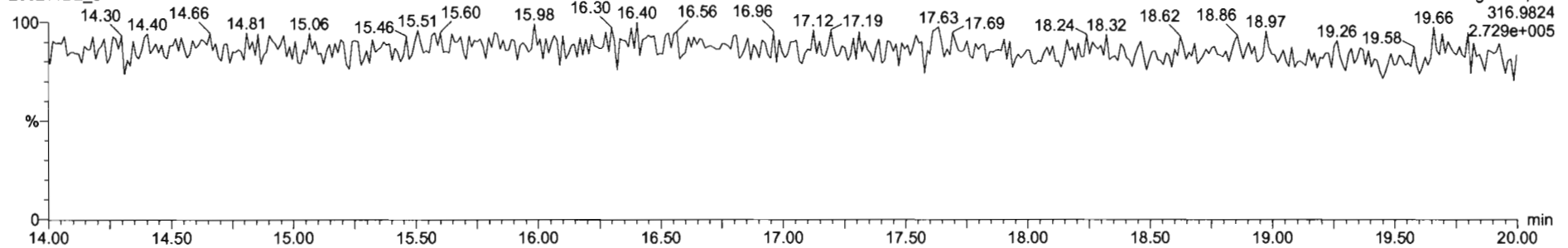


200211D2_3



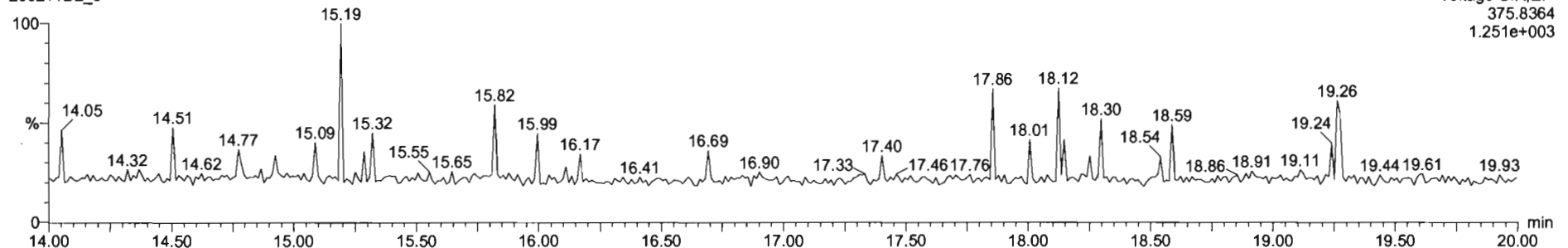
PFK1

200211D2_3



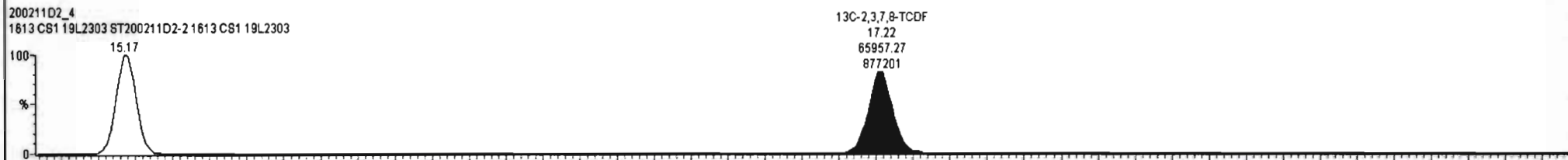
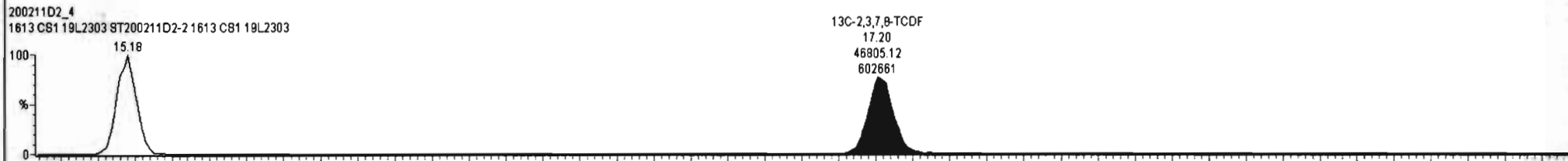
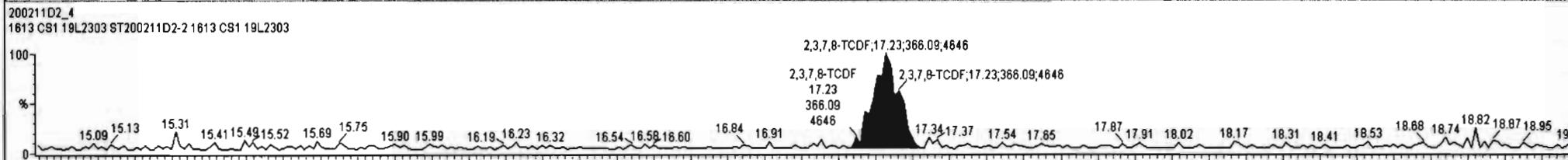
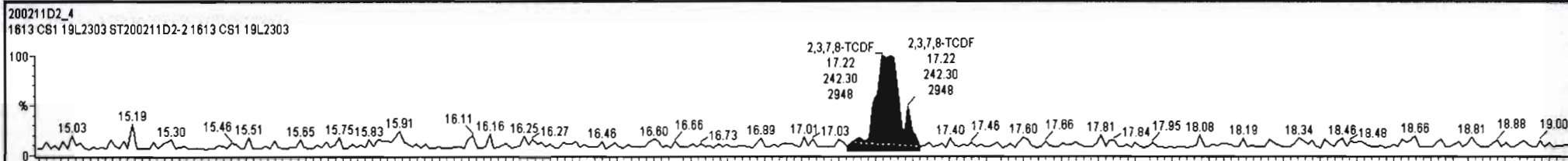
DPE1

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								



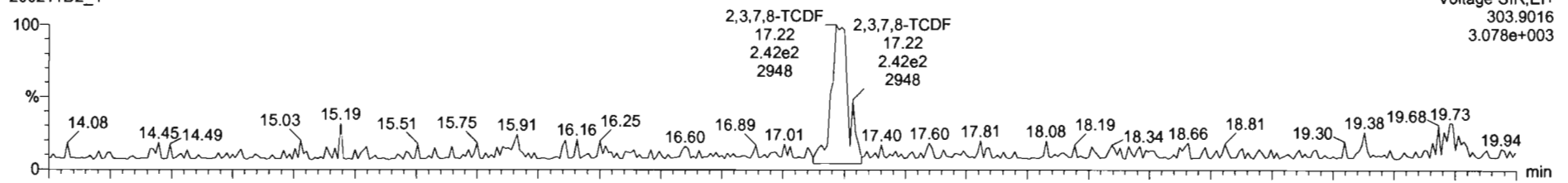
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

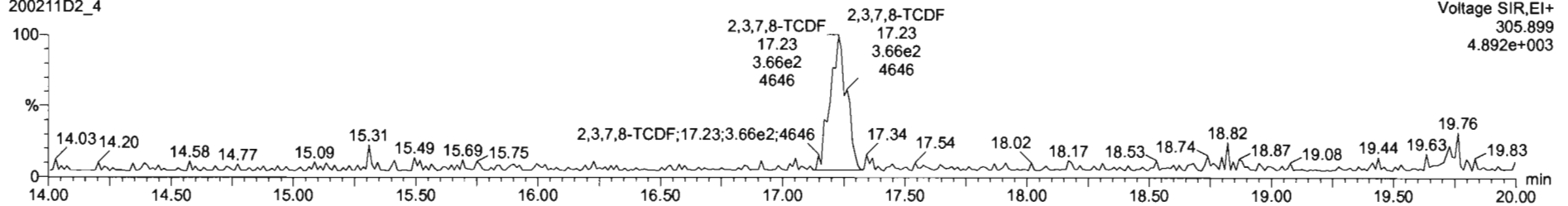
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200211D2_4

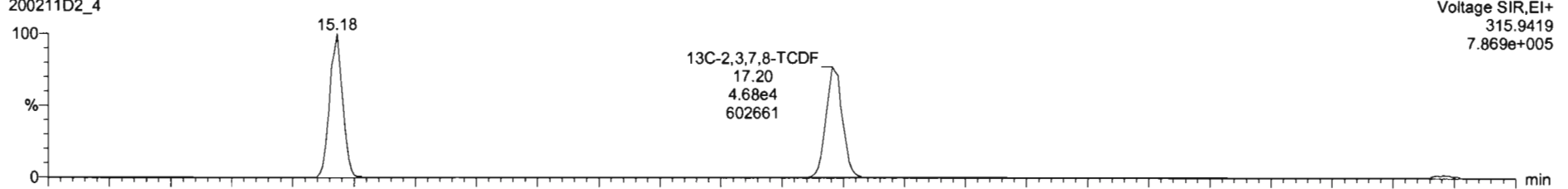


200211D2_4

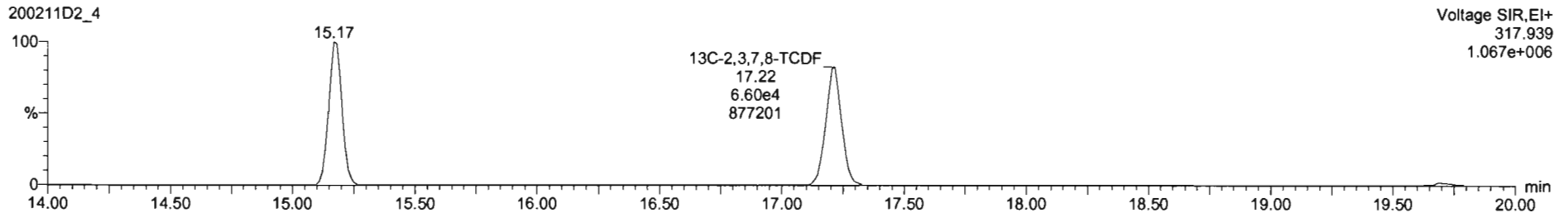


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



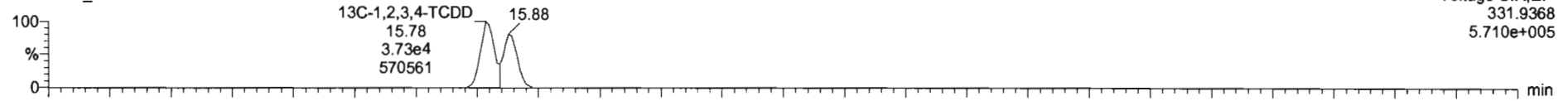
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

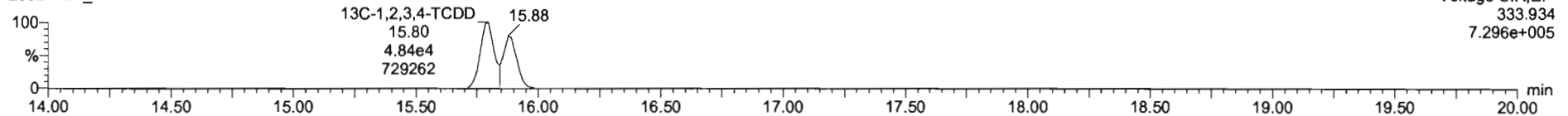
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2_4

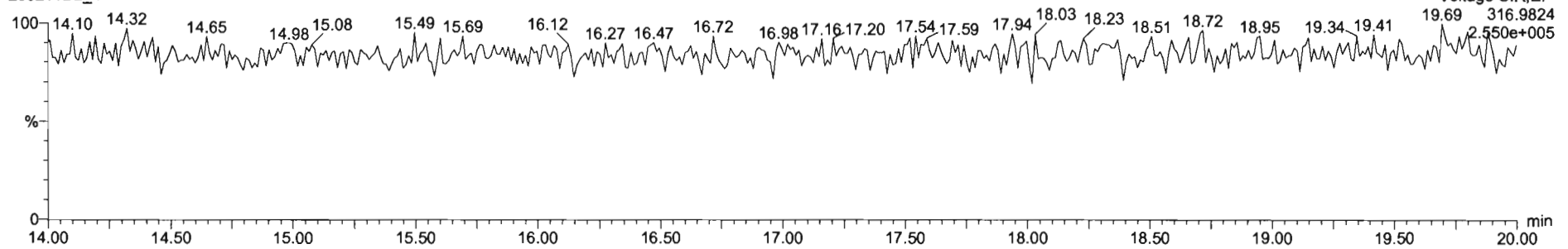


200211D2_4



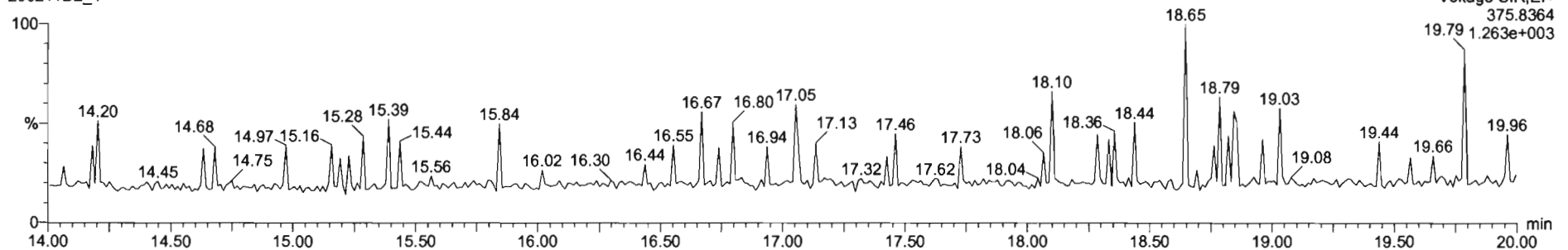
PFK1

200211D2_4



DPE1

200211D2_4



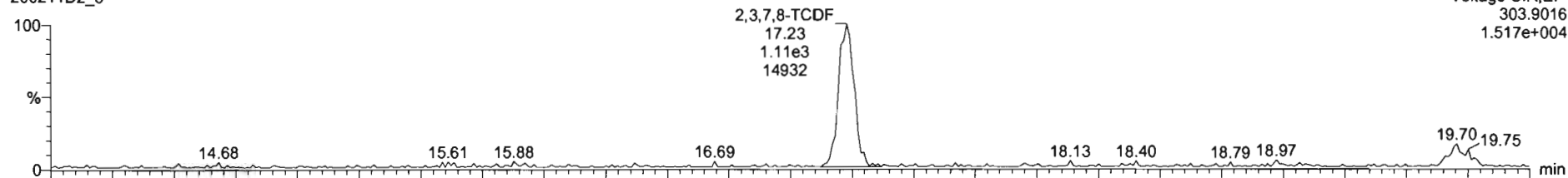
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

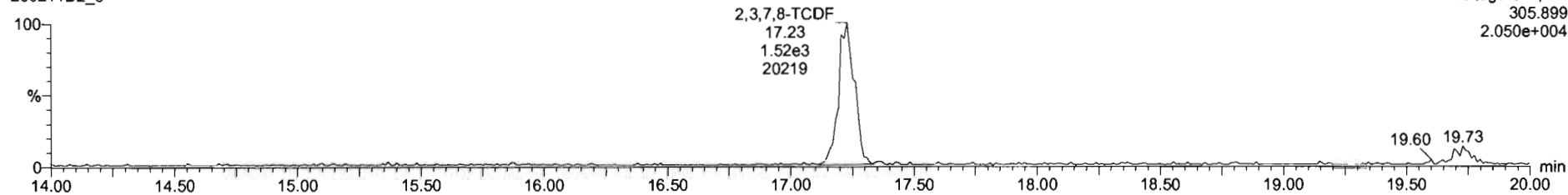
2,3,7,8-TCDF

200211D2_5



Voltage SIR,EI+
303.9016
1.517e+004

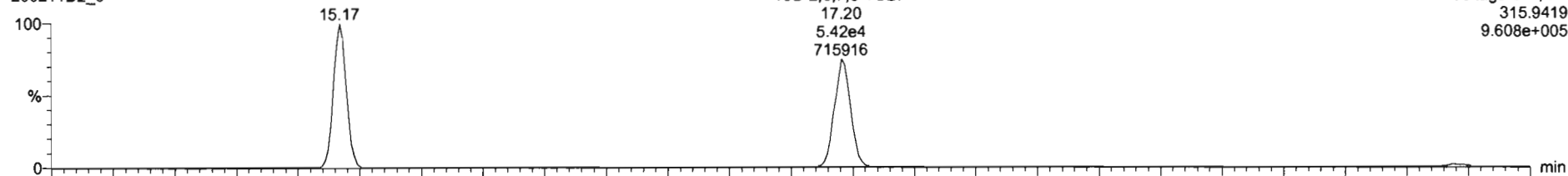
200211D2_5



Voltage SIR,EI+
305.899
2.050e+004

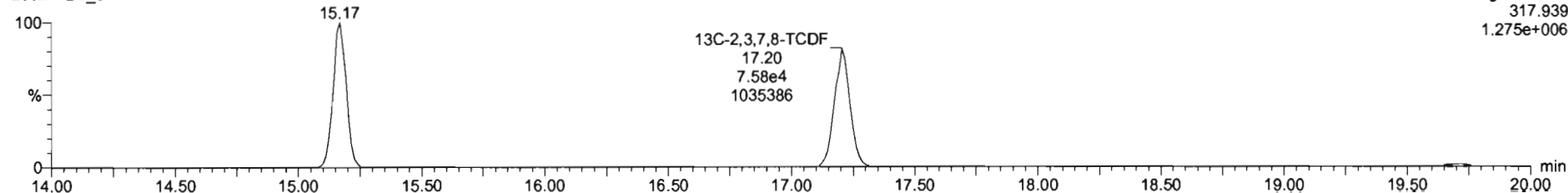
13C-2,3,7,8-TCDF

200211D2_5



Voltage SIR,EI+
315.9419
9.608e+005

200211D2_5



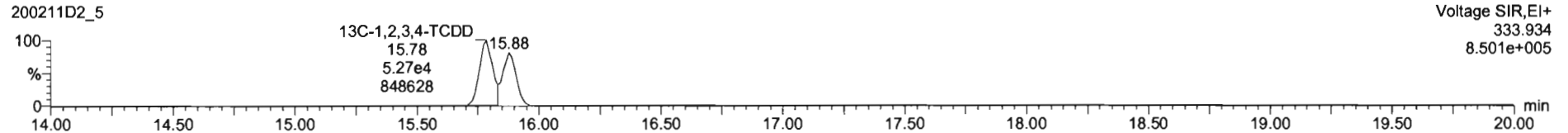
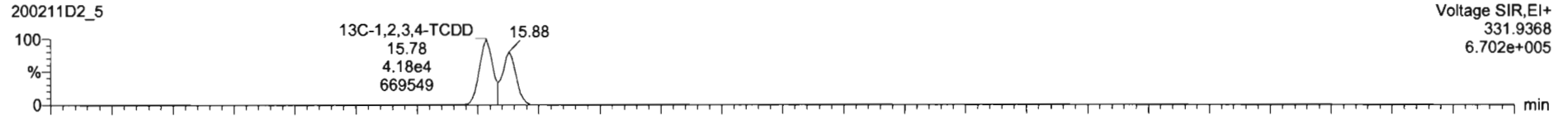
Voltage SIR,EI+
317.939
1.275e+006

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

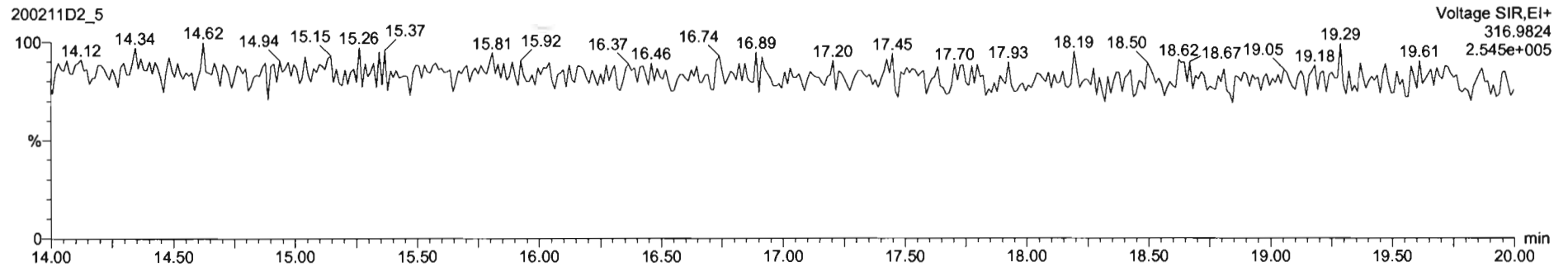
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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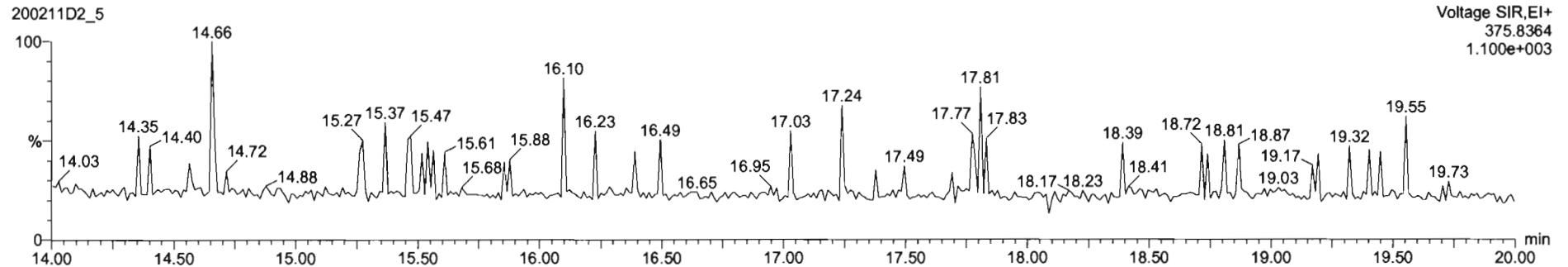
13C-1,2,3,4-TCDD



PFK1



DPE1



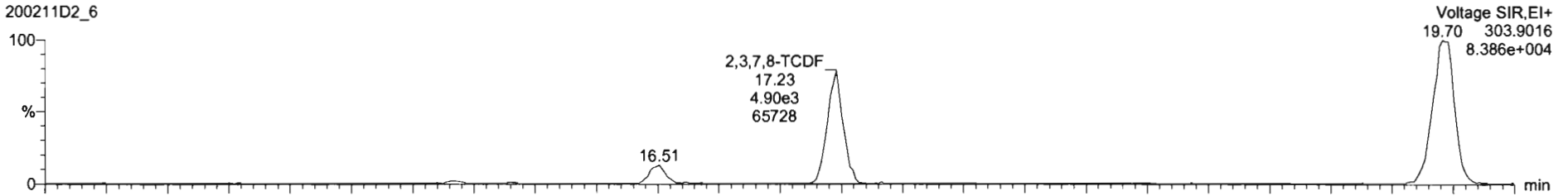
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

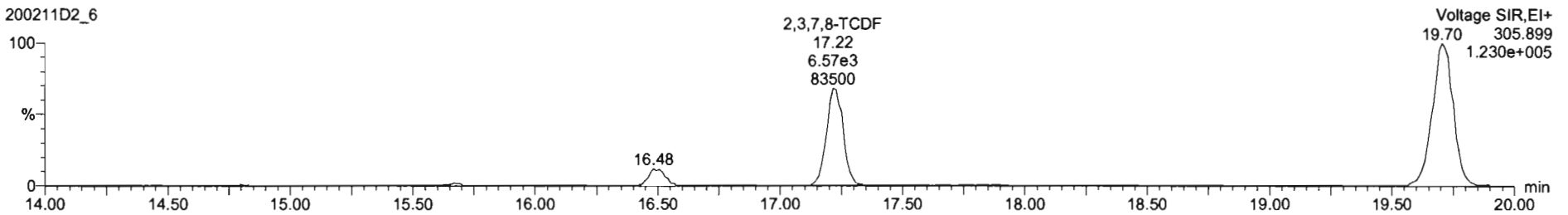
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2,3,7,8-TCDF

200211D2_6

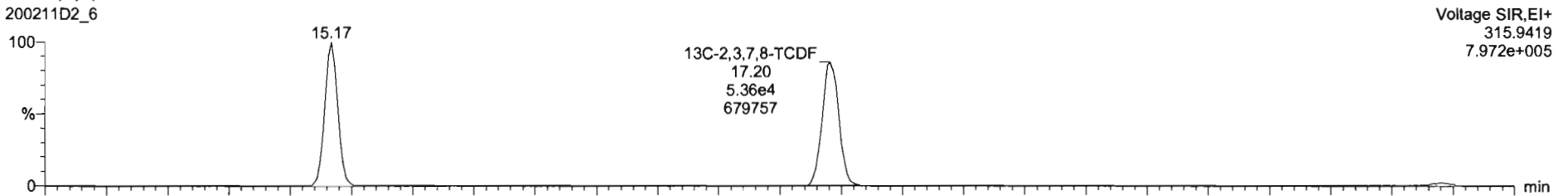


200211D2_6

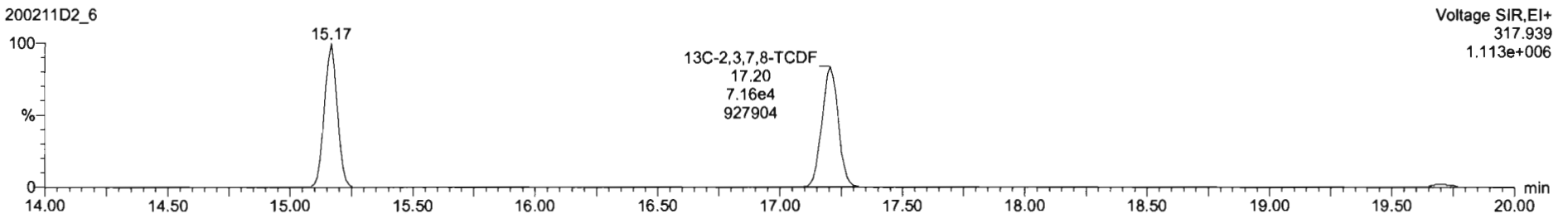


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



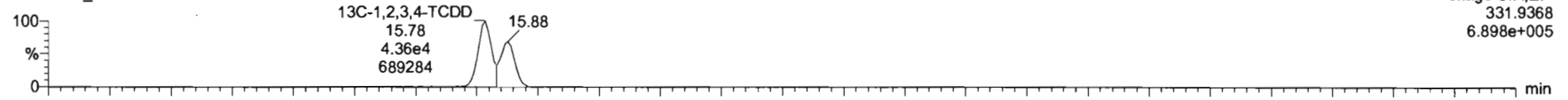
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

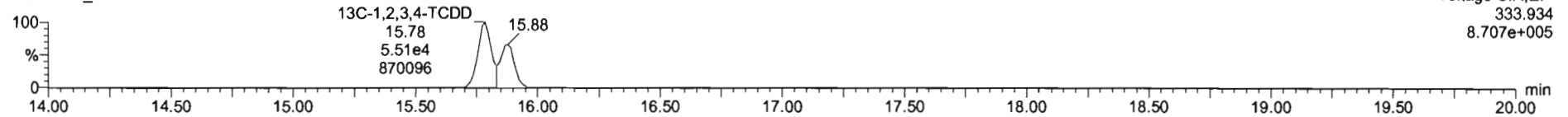
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13C-1,2,3,4-TCDD

200211D2_6

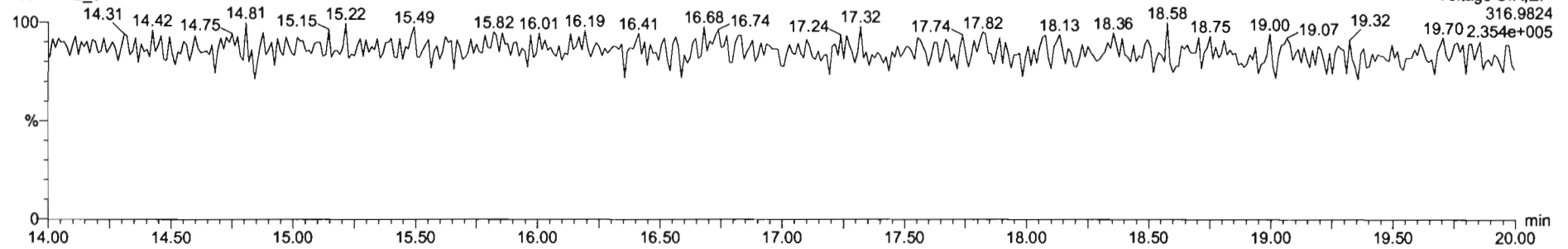


200211D2_6



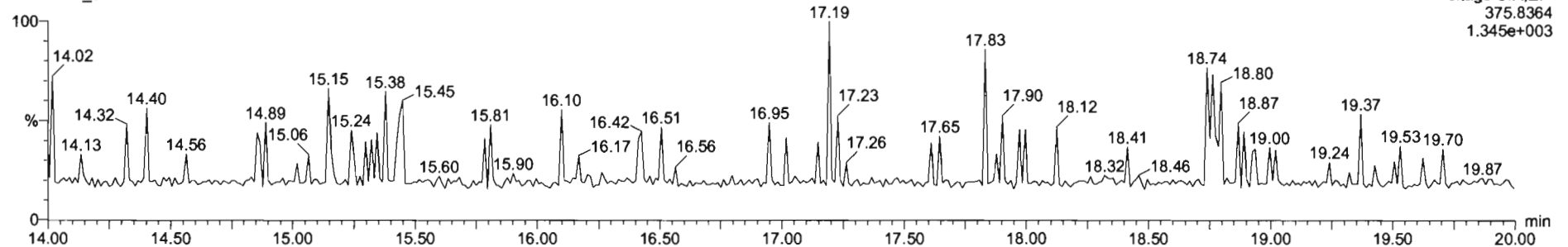
PFK1

200211D2_6



DPE1

200211D2_6



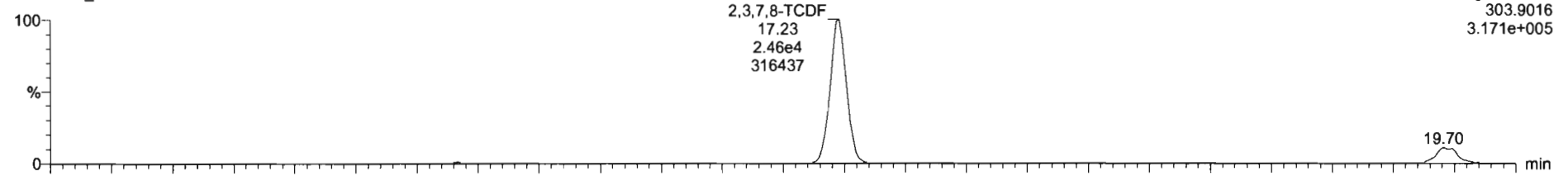
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

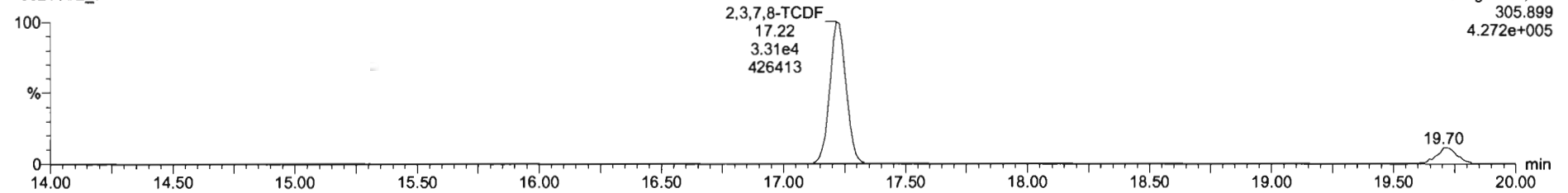
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200211D2_7

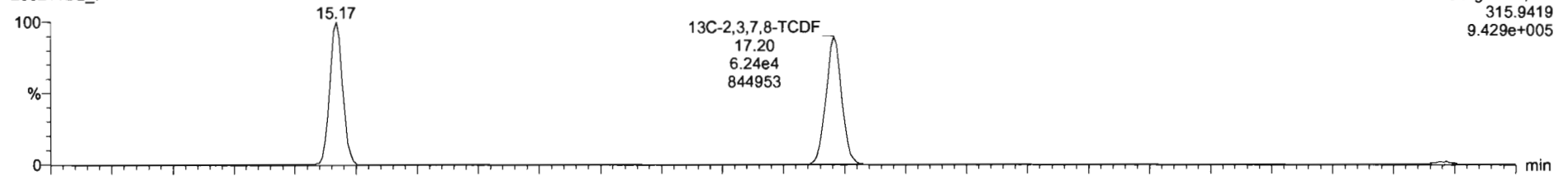


200211D2_7

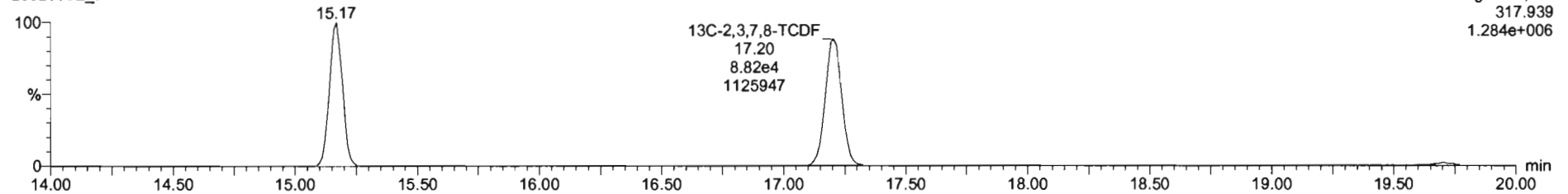


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



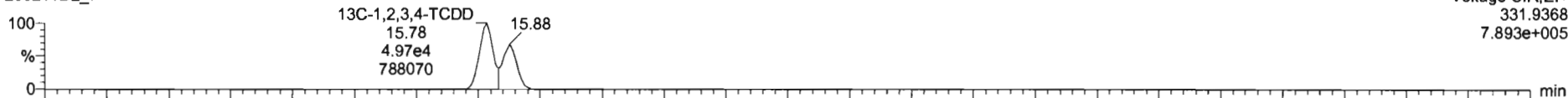
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

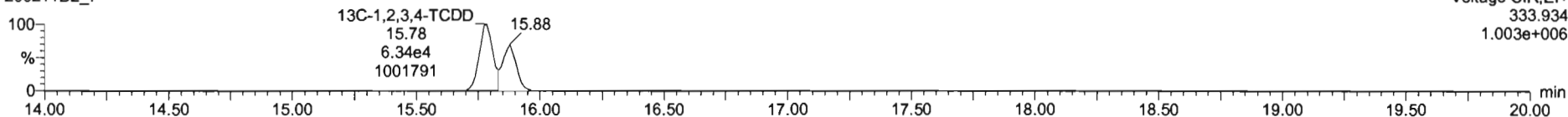
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13C-1,2,3,4-TCDD

200211D2_7

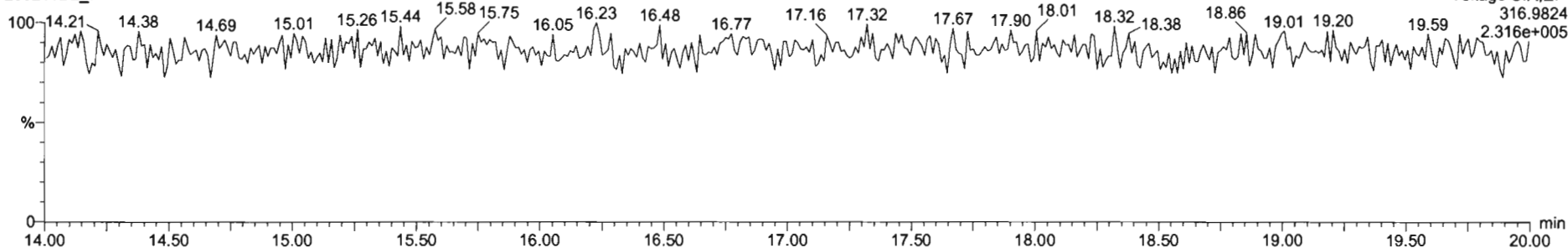


200211D2_7



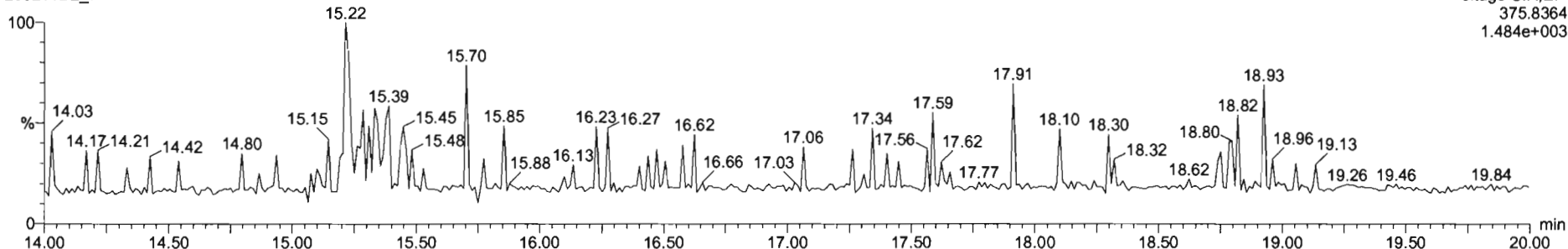
PFK1

200211D2_7



DPE1

200211D2_7



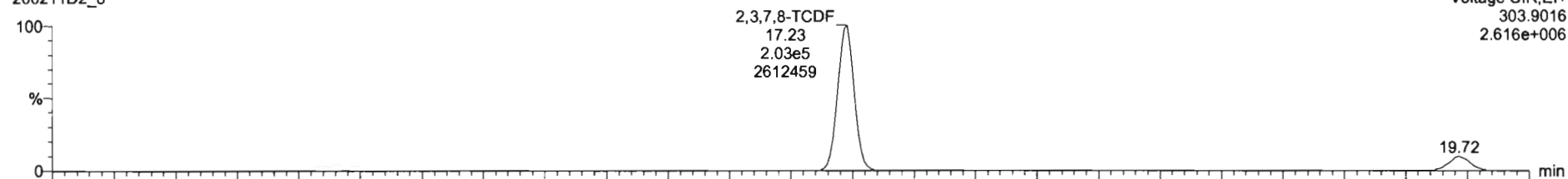
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

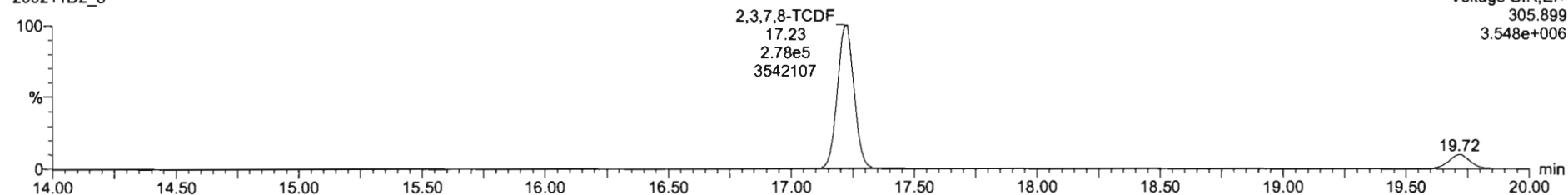
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2,3,7,8-TCDF

200211D2_8

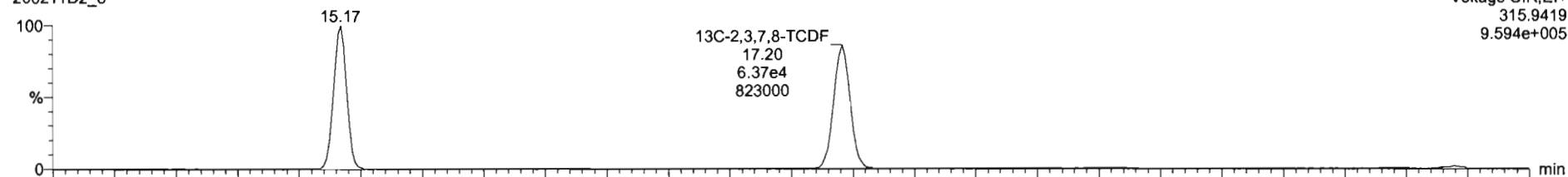


200211D2_8

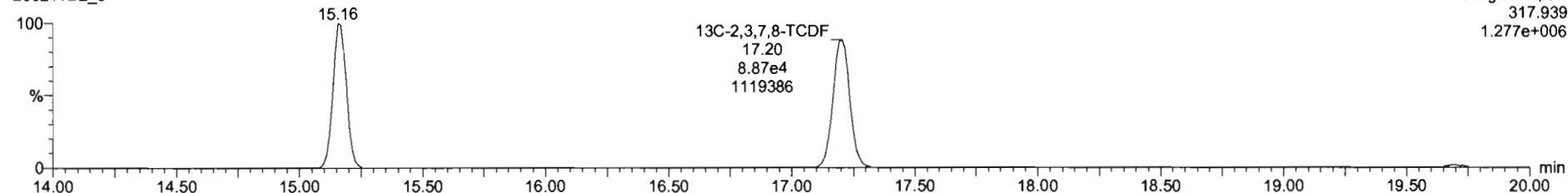


13C-2,3,7,8-TCDF

200211D2_8



200211D2_8



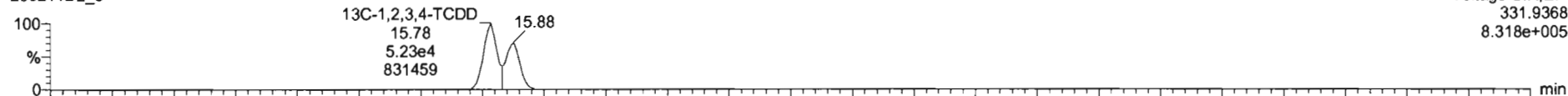
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

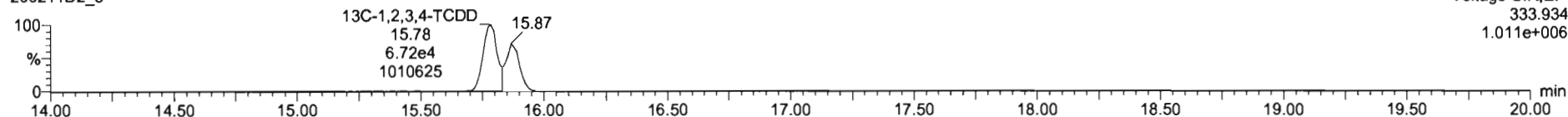
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13C-1,2,3,4-TCDD

200211D2_8

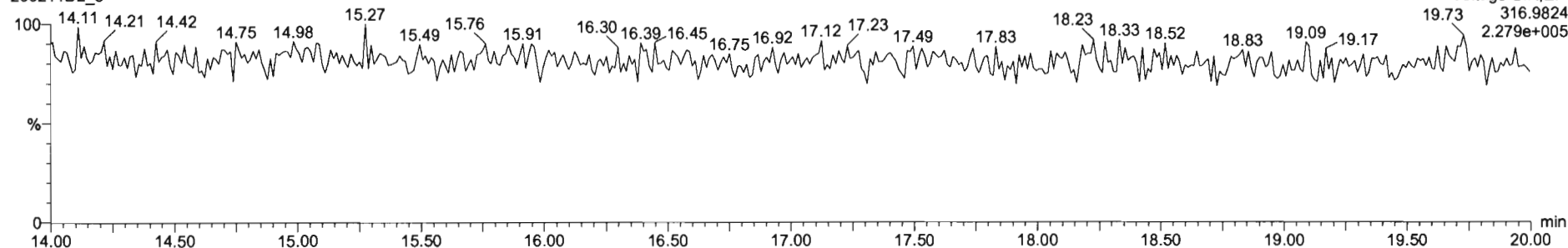


200211D2_8



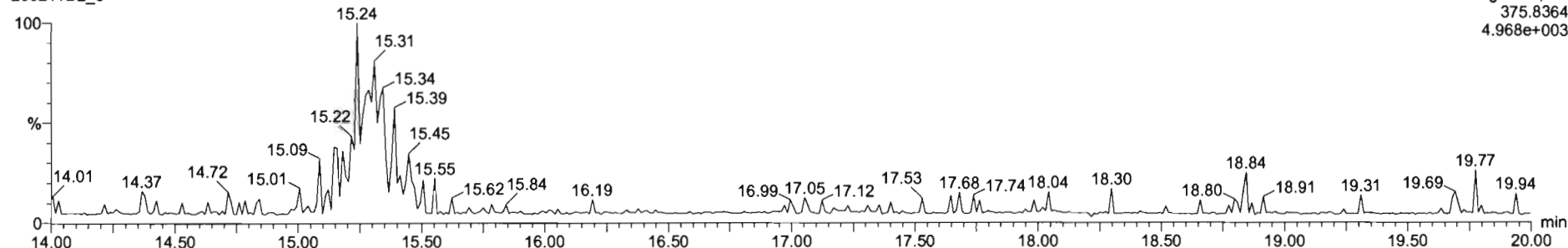
PFK1

200211D2_8

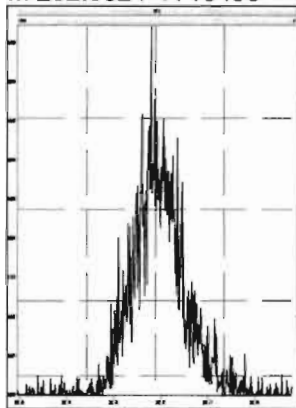


DPE1

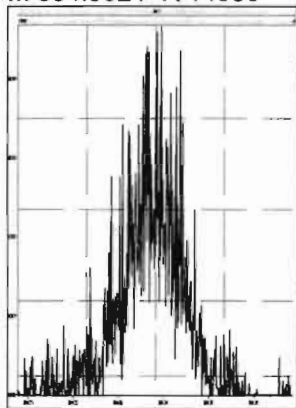
200211D2_8



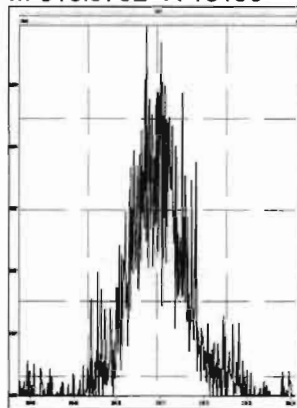
M 292.9824 R 13493



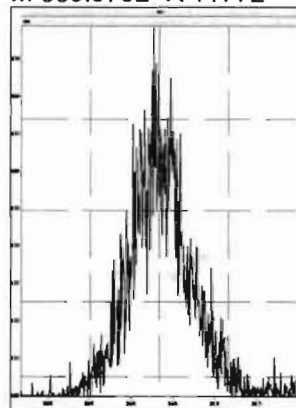
M 304.9824 R 14983



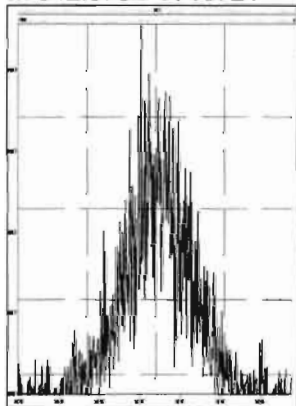
M 318.9792 R 15196



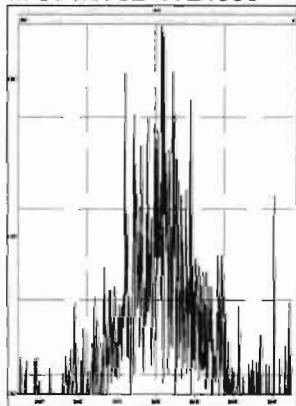
M 330.9792 R 11772



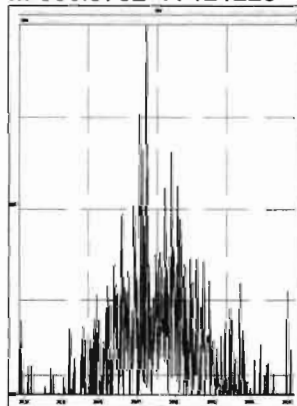
M 342.9792 R 13721



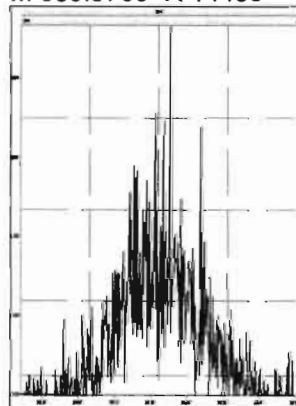
M 354.9792 R 24553



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

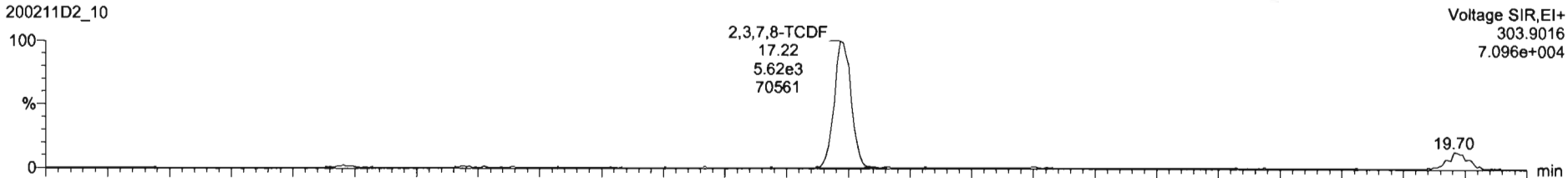
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

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

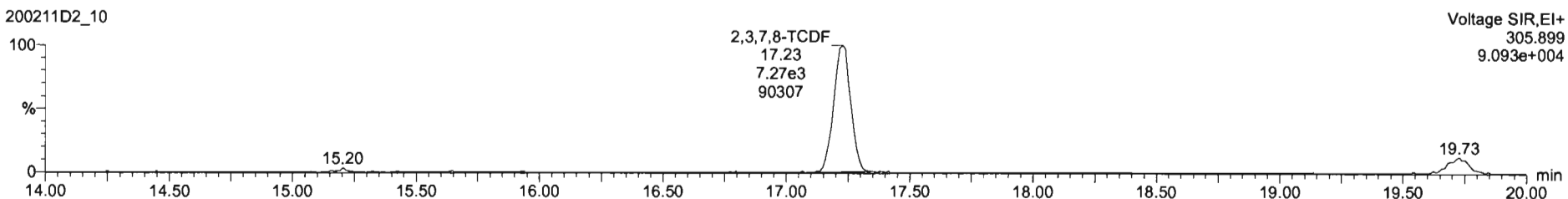
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2,3,7,8-TCDF

200211D2_10

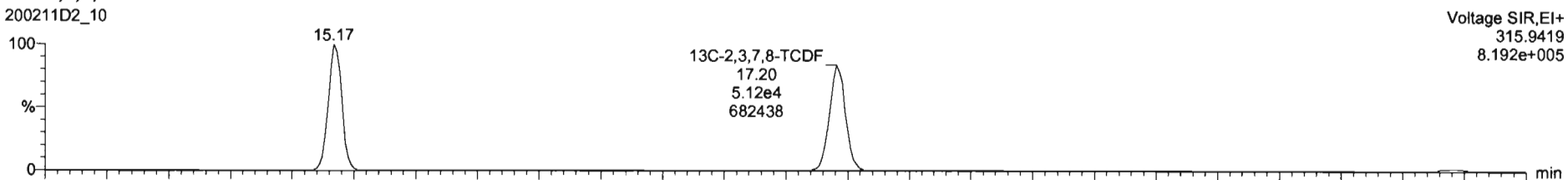


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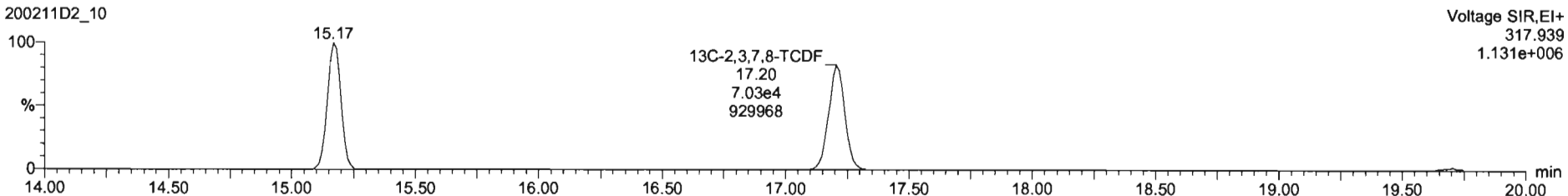


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



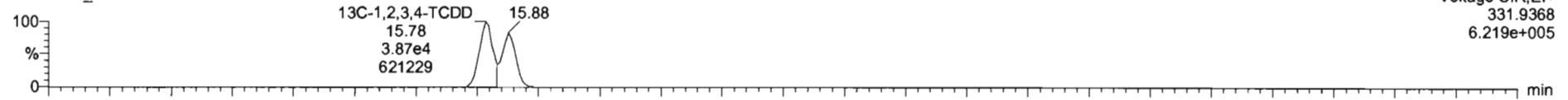
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Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

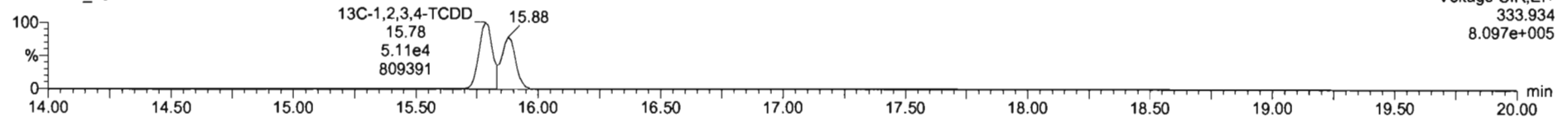
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13C-1,2,3,4-TCDD

200211D2_10

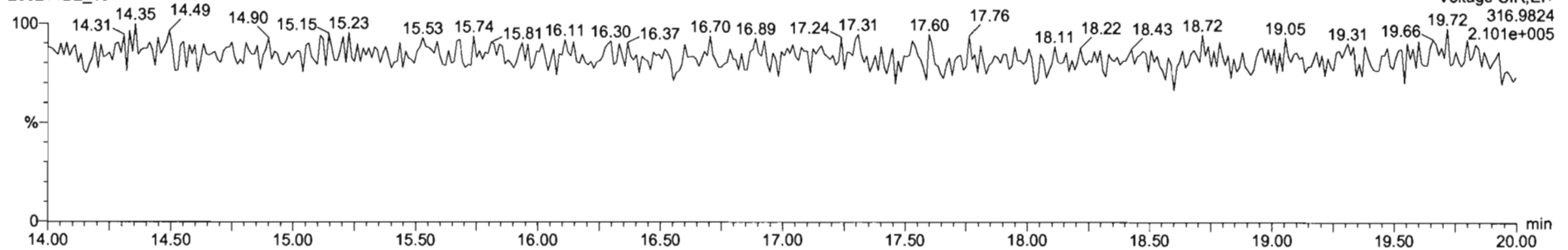


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

