



July 09, 2020

Vista Work Order No. 2001155

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 May 27, 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. 2001155

Case Narrative

Sample Condition on Receipt:

Five sediment samples were received in good condition but outside of the recommended temperature preservation of <6°C. Authorization to proceed with the analyses was received by email on May 28, 2020. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The EPA Method 1668 analysis of sample "PDI-175SC-A-00-01.200522" was assigned to Vista Work Order No. 2001156.

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

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

As requested, a duplicate was performed on sample "PDI-175SC-A-02-03-200522". The RPD was out of the acceptance criteria for OCDD.

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

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2001155-01	PDI-1175SC-A-01-02-200522	EPA Method 1613B	13C-2,3,7,8-TCDD	H	19.0
2001155-01	PDI-1175SC-A-01-02-200522	EPA Method 1613B	13C-2,3,7,8-TCDF	H	16.0
2001155-01	PDI-1175SC-A-01-02-200522	EPA Method 1613B	37Cl-2,3,7,8-TCDD	H	18.8
B0F0086-BS1	B0F0086-BS1	EPA Method 1613B	13C-2,3,7,8-TCDD	H	15.7
B0F0086-BS1	B0F0086-BS1	EPA Method 1613B	13C-2,3,7,8-TCDF	H	15.4
B0F0086-BS1	B0F0086-BS1	EPA Method 1613B	37Cl-2,3,7,8-TCDD	H	17.5

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2001155-01	PDI-1175SC-A-01-02-200522	22-May-20 09:25	27-May-20 10:27	Amber Glass, 120 mL
2001155-02	PDI-175SC-A-00-01-200522	22-May-20 09:25	27-May-20 10:27	Amber Glass, 120 mL
2001155-03	PDI-175SC-A-01-02-200522	22-May-20 09:25	27-May-20 10:27	Amber Glass, 120 mL
2001155-04	PDI-175SC-A-02-03-200522	DUP22-May-20 09:25	27-May-20 10:27	Amber Glass, 120 mL Amber Glass, 120 mL
2001155-05	PDI-175SC-A-03-04-200522	22-May-20 09:25	27-May-20 10:27	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0F0086 Date Extracted: 11-Jun-2020 16:31		Lab Sample: B0F0086-BLK1 Date Analyzed: 24-Jun-20 00:26 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.479			IS 13C-2,3,7,8-TCDD	66.6	25 - 164		
1,2,3,7,8-PeCDD	ND	0.418			13C-1,2,3,7,8-PeCDD	76.4	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.605			13C-1,2,3,4,7,8-HxCDD	71.3	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.665			13C-1,2,3,6,7,8-HxCDD	76.8	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.716			13C-1,2,3,7,8,9-HxCDD	72.7	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	1.26			13C-1,2,3,4,6,7,8-HpCDD	65.8	23 - 140		
OCDD	ND	1.09			13C-OCDD	57.1	17 - 157		
2,3,7,8-TCDF	ND	0.393			13C-2,3,7,8-TCDF	65.9	24 - 169		
1,2,3,7,8-PeCDF	ND	0.201			13C-1,2,3,7,8-PeCDF	80.4	24 - 185		
2,3,4,7,8-PeCDF	ND	0.195			13C-2,3,4,7,8-PeCDF	78.6	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.232			13C-1,2,3,4,7,8-HxCDF	69.3	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.238			13C-1,2,3,6,7,8-HxCDF	73.7	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.261			13C-2,3,4,6,7,8-HxCDF	70.7	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.390			13C-1,2,3,7,8,9-HxCDF	66.3	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.321			13C-1,2,3,4,6,7,8-HpCDF	66.6	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.332			13C-1,2,3,4,7,8,9-HpCDF	64.4	26 - 138		
OCDF	ND	0.741			13C-OCDF	56.9	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	69.7	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.479							
Total PeCDD	ND	0.418							
Total HxCDD	ND	0.716							
Total HpCDD	ND	1.26							
Total TCDF	ND		0.596						
Total PeCDF	ND	0.201							
Total HxCDF	ND	0.390							
Total HpCDF	ND	0.332							

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: B0F0086	Lab Sample: B0F0086-BS1		Date Analyzed: 23-Jun-20 22:55 Column: ZB-5MS			
Sample Size: 10.0 g	Date Extracted: 11-Jun-2020 16:31						
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	21.3	20.0	106	67 - 158	IS 13C-2,3,7,8-TCDD	15.7	20 - 175
1,2,3,7,8-PeCDD	102	100	102	70 - 142	13C-1,2,3,7,8-PeCDD	27.7	21 - 227
1,2,3,4,7,8-HxCDD	92.8	100	92.8	70 - 164	13C-1,2,3,4,7,8-HxCDD	40.2	21 - 193
1,2,3,6,7,8-HxCDD	96.1	100	96.1	76 - 134	13C-1,2,3,6,7,8-HxCDD	47.1	25 - 163
1,2,3,7,8,9-HxCDD	90.9	100	90.9	64 - 162	13C-1,2,3,7,8,9-HxCDD	64.8	21 - 193
1,2,3,4,6,7,8-HpCDD	99.7	100	99.7	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	62.6	26 - 166
OCDD	184	200	92.1	78 - 144	13C-OCDD	62.2	13 - 199
2,3,7,8-TCDF	21.6	20.0	108	75 - 158	13C-2,3,7,8-TCDF	15.4	22 - 152
1,2,3,7,8-PeCDF	93.0	100	93.0	80 - 134	13C-1,2,3,7,8-PeCDF	26.0	21 - 192
2,3,4,7,8-PeCDF	98.7	100	98.7	68 - 160	13C-2,3,4,7,8-PeCDF	23.1	13 - 328
1,2,3,4,7,8-HxCDF	103	100	103	72 - 134	13C-1,2,3,4,7,8-HxCDF	35.9	19 - 202
1,2,3,6,7,8-HxCDF	104	100	104	84 - 130	13C-1,2,3,6,7,8-HxCDF	43.4	21 - 159
2,3,4,6,7,8-HxCDF	99.8	100	99.8	70 - 156	13C-2,3,4,6,7,8-HxCDF	52.1	22 - 176
1,2,3,7,8,9-HxCDF	100	100	100	78 - 130	13C-1,2,3,7,8,9-HxCDF	41.9	17 - 205
1,2,3,4,6,7,8-HpCDF	97.1	100	97.1	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	65.2	21 - 158
1,2,3,4,7,8,9-HpCDF	98.7	100	98.7	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	53.3	20 - 186
OCDF	219	200	109	63 - 170	13C-OCDF	60.1	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	17.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-1175SC-A-01-02-200522 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001155-01 Date Received: 27-May-2020 10:27
Project: Gasco PDI	Sample Size: 11.1 g	QC Batch: B0F0086 Date Extracted: 11-Jun-2020 16:31
Date Collected: 22-May-2020 9:25	% Solids: 90.5	Date Analyzed : 07-Jul-20 22:53 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.260			IS 13C-2,3,7,8-TCDD	19.0	25 - 164	H
1,2,3,7,8-PeCDD	ND	0.169			13C-1,2,3,7,8-PeCDD	35.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.235			13C-1,2,3,4,7,8-HxCDD	50.5	32 - 141	
1,2,3,6,7,8-HxCDD	1.72			J	13C-1,2,3,6,7,8-HxCDD	55.4	28 - 130	
1,2,3,7,8,9-HxCDD	0.485			J	13C-1,2,3,7,8,9-HxCDD	76.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	143				13C-1,2,3,4,6,7,8-HpCDD	77.4	23 - 140	
OCDD	863				13C-OCDD	73.1	17 - 157	
2,3,7,8-TCDF	ND		0.547		13C-2,3,7,8-TCDF	16.0	24 - 169	H
1,2,3,7,8-PeCDF	0.606			J	13C-1,2,3,7,8-PeCDF	29.0	24 - 185	
2,3,4,7,8-PeCDF	0.276			J	13C-2,3,4,7,8-PeCDF	25.8	21 - 178	
1,2,3,4,7,8-HxCDF	1.01			J	13C-1,2,3,4,7,8-HxCDF	44.3	26 - 152	
1,2,3,6,7,8-HxCDF	0.247			J	13C-1,2,3,6,7,8-HxCDF	49.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0715			13C-2,3,4,6,7,8-HxCDF	58.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.117			13C-1,2,3,7,8,9-HxCDF	55.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	3.56				13C-1,2,3,4,6,7,8-HpCDF	65.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.194			13C-1,2,3,4,7,8,9-HpCDF	59.4	26 - 138	
OCDF	19.8				13C-OCDF	64.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	18.8	35 - 197	H

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 2.18

TOTALS								
Total TCDD	ND	0.260						
Total PeCDD	0.459		0.635					
Total HxCDD	26.7							
Total HpCDD	326							
Total TCDF	0.620		1.17					
Total PeCDF	2.13							
Total HxCDF	3.66							
Total HpCDF	17.8							

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-175SC-A-00-01-200522 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001155-02 Date Received: 27-May-2020 10:27
Project: Gasco PDI	Sample Size: 11.0 g	QC Batch: B0F0086 Date Extracted: 11-Jun-2020 16:31
Date Collected: 22-May-2020 9:25	% Solids: 91.9	Date Analyzed : 08-Jul-20 18:36 Column: DB-225 28-Jun-20 16:35 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.206			IS 13C-2,3,7,8-TCDD	53.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.277			13C-1,2,3,7,8-PeCDD	67.6	25 - 181	
1,2,3,4,7,8-HxCDD	0.552			J	13C-1,2,3,4,7,8-HxCDD	55.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.287			13C-1,2,3,6,7,8-HxCDD	62.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.357			13C-1,2,3,7,8,9-HxCDD	60.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	34.7				13C-1,2,3,4,6,7,8-HpCDD	60.7	23 - 140	
OCDD	257				13C-OCDD	55.4	17 - 157	
2,3,7,8-TCDF	0.387			J	13C-2,3,7,8-TCDF	46.4	24 - 169	
1,2,3,7,8-PeCDF	0.603			J	13C-1,2,3,7,8-PeCDF	61.0	24 - 185	
2,3,4,7,8-PeCDF	0.390			J	13C-2,3,4,7,8-PeCDF	60.1	21 - 178	
1,2,3,4,7,8-HxCDF	1.11			J	13C-1,2,3,4,7,8-HxCDF	58.4	26 - 152	
1,2,3,6,7,8-HxCDF	0.331			J	13C-1,2,3,6,7,8-HxCDF	65.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.144			13C-2,3,4,6,7,8-HxCDF	69.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.233			13C-1,2,3,7,8,9-HxCDF	60.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.32			J	13C-1,2,3,4,6,7,8-HpCDF	65.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.336			13C-1,2,3,4,7,8,9-HpCDF	60.0	26 - 138	
OCDF	7.05				13C-OCDF	56.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	59.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 0.823

TOTALS				
Total TCDD	ND	0.206		
Total PeCDD	ND	0.277		
Total HxCDD	8.90			
Total HpCDD	85.4			
Total TCDF	0.648		1.37	
Total PeCDF	2.37			
Total HxCDF	3.40			
Total HpCDF	8.02			

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-175SC-A-01-02-200522 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001155-03 Date Received: 27-May-2020 10:27
Project: Gasco PDI	Sample Size: 11.0 g	QC Batch: B0F0086 Date Extracted: 11-Jun-2020 16:31
Date Collected: 22-May-2020 9:25	% Solids: 90.8	Date Analyzed : 28-Jun-20 17:21 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.146			IS 13C-2,3,7,8-TCDD	73.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.155			13C-1,2,3,7,8-PeCDD	90.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.198			13C-1,2,3,4,7,8-HxCDD	74.0	32 - 141	
1,2,3,6,7,8-HxCDD	0.452			J	13C-1,2,3,6,7,8-HxCDD	80.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.241			13C-1,2,3,7,8,9-HxCDD	82.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	16.6				13C-1,2,3,4,6,7,8-HpCDD	71.5	23 - 140	
OCDD	142				13C-OCDD	58.8	17 - 157	
2,3,7,8-TCDF	0.448			J	13C-2,3,7,8-TCDF	59.4	24 - 169	
1,2,3,7,8-PeCDF	1.33			J	13C-1,2,3,7,8-PeCDF	83.8	24 - 185	
2,3,4,7,8-PeCDF	0.474			J	13C-2,3,4,7,8-PeCDF	83.2	21 - 178	
1,2,3,4,7,8-HxCDF	16.4				13C-1,2,3,4,7,8-HxCDF	75.3	26 - 152	
1,2,3,6,7,8-HxCDF	5.84				13C-1,2,3,6,7,8-HxCDF	79.4	26 - 123	
2,3,4,6,7,8-HxCDF	0.874			J	13C-2,3,4,6,7,8-HxCDF	80.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.496			J	13C-1,2,3,7,8,9-HxCDF	74.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	12.1				13C-1,2,3,4,6,7,8-HpCDF	77.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.59				13C-1,2,3,4,7,8,9-HpCDF	72.4	26 - 138	
OCDF	9.71				13C-OCDF	61.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	76.7	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 2.99

TOTALS		
Total TCDD	ND	0.146
Total PeCDD	ND	0.155
Total HxCDD	4.30	
Total HpCDD	39.0	
Total TCDF	1.46	
Total PeCDF	4.19	
Total HxCDF	27.4	
Total HpCDF	20.2	

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

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

Sample ID: PDI-175SC-A-02-03-200522 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001155-04 Date Received: 27-May-2020 10:27
Project: Gasco PDI	Sample Size: 11.5 g	QC Batch: B0F0086 Date Extracted: 11-Jun-2020 16:31
Date Collected: 22-May-2020 9:25	% Solids: 87.8	Date Analyzed : 28-Jun-20 18:07 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.120			IS 13C-2,3,7,8-TCDD	84.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0723			13C-1,2,3,7,8-PeCDD	99.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.122			13C-1,2,3,4,7,8-HxCDD	75.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.119			13C-1,2,3,6,7,8-HxCDD	88.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.148			13C-1,2,3,7,8,9-HxCDD	86.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.210			13C-1,2,3,4,6,7,8-HpCDD	78.1	23 - 140	
OCDD	0.608			J	13C-OCDD	64.7	17 - 157	
2,3,7,8-TCDF	ND	0.0795			13C-2,3,7,8-TCDF	74.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0560			13C-1,2,3,7,8-PeCDF	93.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0516			13C-2,3,4,7,8-PeCDF	98.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0565			13C-1,2,3,4,7,8-HxCDF	80.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0508			13C-1,2,3,6,7,8-HxCDF	86.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0533			13C-2,3,4,6,7,8-HxCDF	92.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0871			13C-1,2,3,7,8,9-HxCDF	86.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0857			13C-1,2,3,4,6,7,8-HpCDF	86.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.101			13C-1,2,3,4,7,8,9-HpCDF	79.7	26 - 138	
OCDF	ND	0.164			13C-OCDF	68.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	99.7	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.000182

TOTALS		
Total TCDD	ND	0.120
Total PeCDD	ND	0.0723
Total HxCDD	ND	0.148
Total HpCDD	ND	0.210
Total TCDF	ND	0.0795
Total PeCDF	ND	0.0560
Total HxCDF	ND	0.0871
Total HpCDF	ND	0.101

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-175SC-A-02-03-200522		QC Batch: B0F0086		Lab Sample: B0F0086-DUP2				
Source LabNumber: 2001155-04		Date Extracted: 11-Jun-2020 16:31		Date Analyzed: 28-Jun-20 18:53 Column: ZB-5MS				
Matrix: Solid								
Sample Size: 11.5 g								
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.124			IS 13C-2,3,7,8-TCDD	83.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.106			13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.135			13C-1,2,3,4,7,8-HxCDD	79.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.121			13C-1,2,3,6,7,8-HxCDD	86.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.150			13C-1,2,3,7,8,9-HxCDD	84.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.300			13C-1,2,3,4,6,7,8-HpCDD	77.2	23 - 140	
OCDD	1.89			J	13C-OCDD	66.4	17 - 157	
2,3,7,8-TCDF	ND	0.0742			13C-2,3,7,8-TCDF	70.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0473			13C-1,2,3,7,8-PeCDF	97.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0410			13C-2,3,4,7,8-PeCDF	105	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0613			13C-1,2,3,4,7,8-HxCDF	81.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0594			13C-1,2,3,6,7,8-HxCDF	83.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0639			13C-2,3,4,6,7,8-HxCDF	89.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0978			13C-1,2,3,7,8,9-HxCDF	84.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.138			13C-1,2,3,4,6,7,8-HpCDF	87.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.179			13C-1,2,3,4,7,8,9-HpCDF	83.9	26 - 138	
OCDF	ND	0.159			13C-OCDF	70.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.3	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000567			
TOTALS								
Total TCDD	ND	0.124						
Total PeCDD	ND	0.106						
Total HxCDD	ND		0.236					
Total HpCDD	ND	0.300						
Total TCDF	ND	0.0742						
Total PeCDF	ND	0.0473						
Total HxCDF	ND	0.0978						
Total HpCDF	ND	0.179						

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-175SC-A-02-03-200522					Duplicate Lab Sample: B0F0086-DUP2				
Source LabNumber: 2001155-04									
Matrix: Solid									
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	ND	ND	NA	25	IS 13C-2,3,7,8-TCDD	83.1	84.0	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	25	13C-1,2,3,7,8-PeCDD	101	99.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	79.0	75.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDD	86.5	88.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDD	84.9	86.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	ND	NA	25	13C-1,2,3,4,6,7,8-HpCDD	77.2	78.1	23 - 140	
OCDD	1.89	0.608	103	25	13C-OCDD	66.4	64.7	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	25	13C-2,3,7,8-TCDF	70.6	74.7	24 - 169	
1,2,3,7,8-PeCDF	ND	ND	NA	25	13C-1,2,3,7,8-PeCDF	97.7	93.9	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	25	13C-2,3,4,7,8-PeCDF	105	98.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDF	81.4	80.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDF	83.7	86.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	ND	NA	25	13C-2,3,4,6,7,8-HxCDF	89.0	92.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDF	84.7	86.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	ND	NA	25	13C-1,2,3,4,6,7,8-HpCDF	87.3	86.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25	13C-1,2,3,4,7,8,9-HpCDF	83.9	79.7	26 - 138	
OCDF	ND	ND	NA	25	13C-OCDF	70.2	68.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.3	99.7	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-175SC-A-03-04-200522 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001155-05 Date Received: 27-May-2020 10:27
Project: Gasco PDI	Sample Size: 11.6 g	QC Batch: B0F0086 Date Extracted: 11-Jun-2020 16:31
Date Collected: 22-May-2020 9:25	% Solids: 86.9	Date Analyzed : 28-Jun-20 19:39 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.118			IS 13C-2,3,7,8-TCDD	90.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.107			13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.130			13C-1,2,3,4,7,8-HxCDD	73.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.117			13C-1,2,3,6,7,8-HxCDD	88.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.146			13C-1,2,3,7,8,9-HxCDD	87.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.227			13C-1,2,3,4,6,7,8-HpCDD	72.6	23 - 140	
OCDD	0.539			J	13C-OCDD	59.7	17 - 157	
2,3,7,8-TCDF	ND	0.0881			13C-2,3,7,8-TCDF	81.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0973			13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0864			13C-2,3,4,7,8-PeCDF	99.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0796			13C-1,2,3,4,7,8-HxCDF	80.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0730			13C-1,2,3,6,7,8-HxCDF	88.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0828			13C-2,3,4,6,7,8-HxCDF	88.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.130			13C-1,2,3,7,8,9-HxCDF	80.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.114			13C-1,2,3,4,6,7,8-HpCDF	80.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.146			13C-1,2,3,4,7,8,9-HpCDF	73.3	26 - 138	
OCDF	ND	0.251			13C-OCDF	64.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	104	35 - 197	

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

TEQMinWHO2005Dioxin 0.000162

TOTALS		
Total TCDD	ND	0.118
Total PeCDD	ND	0.107
Total HxCDD	ND	0.146
Total HpCDD	ND	0.227
Total TCDF	ND	0.0881
Total PeCDF	ND	0.0973
Total HxCDF	ND	0.130
Total HpCDF	ND	0.146

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

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

DATA QUALIFIERS & ABBREVIATIONS

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

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

Vista Analytical Laboratory Certifications

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

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

NELAP Accredited Test Methods

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

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

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

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

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

Project: Gasco PDI
Client: NW Natural

9.7°C

2001155

COC ID: VISTA-20200522-101746
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-1175SC-A-01-02-200522	FD	SE	05/22/2020		1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	PDI-175SC-A-00-01-200522	N	SE	05/22/2020	9:25	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								PCB Congeners	E1668A	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	PDI-175SC-A-01-02-200522	N	SE	05/22/2020	9:25	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
004	PDI-175SC-A-02-03-200522	N	SE	05/22/2020	9:25	2	<input checked="" type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
005	PDI-175SC-A-03-04-200522	N	SE	05/22/2020	9:25	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment: * WO# 2001156

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 Peterson</i>	Print Name: <i>William R. Wright</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>Anchor OEA</i>	Company: <i>VIA</i>	Company:	Company:	Company:	Company:
Date/Time: <i>5/22/20 10:15</i>	Date/Time: <i>5-27-20 10:27</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2001155

TAT _____

Samples Arrival:	Date/Time: 5-27-20 10:27	Initials: WFW	Location: WR-2
			Shelf/Rack: NA
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> GLS	<input type="checkbox"/> DHL
		<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input checked="" type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: 9.7 (uncorrected)	Probe used: Y / N		Thermometer ID: DT-3
Temp °C: 9.7 (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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trk #	7705 4897 1961		
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: 05/28/20 0623	Initials: KS	Location: WR-2
			Shelf/Rack: G-4
COC Anomaly/Sample Acceptance Form completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2001155

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2001155-01	A PDI-1175SC-A-01-02-200522	<input checked="" type="checkbox"/>	22-May-20 09:25	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2001155-02	A PDI-175SC-A-00-01-200522	<input checked="" type="checkbox"/>	22-May-20 09:25	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2001155-03	A PDI-175SC-A-01-02-200522	<input checked="" type="checkbox"/>	22-May-20 09:25	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2001155-04	A PDI-175SC-A-02-03-200522	<input checked="" type="checkbox"/>	22-May-20 09:25	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid DUP
2001155-04	B PDI-175SC-A-02-03-200522	<input checked="" type="checkbox"/>	22-May-20 09:25	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid DUP
2001155-05	A PDI-175SC-A-03-04-200522	<input checked="" type="checkbox"/>	22-May-20 09:25	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid

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

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

Comments:

Verified by/Date: KS 05/28/20



ANOMALY FORM

Vista Work Order 2001155

Initial/Date The following checked issues were noted during sample receipt and login:

- KS 05/28/20 1. The samples were received out of temperature at (WI-PHT): 9.7°C
Was Ice present: Yes No Melted Blue Ice
2. The Chain-of-Custody (CoC) was not relinquished properly.
3. The CoC did not include collection time(s). 00:00 will be used unless notified otherwise.
4. The sample(s) did not include a sample collection time. All or Sample Name: _____
5. A sample ID discrepancy was found. See the Reconciliation report.
The CoC Sample ID will be used unless notified otherwise.
6. A sample date and/or time discrepancy was found. See the Reconciliation report.
The CoC Sample date/time will be used unless notified otherwise.
7. The CoC did not include a sample matrix. The following sample matrix will be used: _____
8. Insufficient volume received for analysis. All or Sample Name: _____
9. The backup bottle was received broken. Sample Name: _____
10. CoC not received, illegible or destroyed.
11. The sample(s) were received out of holding time. All or Sample Name: _____
12. The CoC did not include an analysis. All or Sample Name: _____
13. Sample(s) received without collection date. All or Sample Name: _____
14. Sample(s) not received. All or Sample Name: _____
15. Sample(s) received broken. All or Sample Name: _____
16. An incorrect container-type was used. All or Sample Name: _____
17. Other:

Bolded items require sign-off

Client Contacted: Delaney Peterson

Date of Contact: 05/28/20

Vista Client Manager: Jade White

Resolution: Per Delaney Peterson via email on 05/28/20, okay to proceed

EXTRACTION INFORMATION

Process Sheet

Workorder: **2001155**

Prep Expiration: 2021-05-22
Client: Anchor QEA, LLC

Workorder Due: **24-Jun-20 00:00**

TAT: 28

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

Prep Batch: 50F086

Prep Data Entered: EM 06/16/20
Date and Initials

Initial Sequence: S0F0090

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2001155-01	<input checked="" type="checkbox"/>	PDI-1175SC-A-01-02-200522	27-May-20 10:27	WR-2 G-4	
2001155-02	<input checked="" type="checkbox"/>	PDI-175SC-A-00-01-200522	27-May-20 10:27	WR-2 G-4	
2001155-03	<input checked="" type="checkbox"/>	PDI-175SC-A-01-02-200522	27-May-20 10:27	WR-2 G-4	
2001155-04	<input checked="" type="checkbox"/>	PDI-175SC-A-02-03-200522	27-May-20 10:27	WR-2 G-4	DUP
2001155-05	<input checked="" type="checkbox"/>	PDI-175SC-A-03-04-200522	27-May-20 10:27	WR-2 G-4	

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

Pre-Prep Check Out: CHT 05/24/20
Pre-Prep Check In: CHT 05/24/20

Prep Check Out: RR 06/13/20
Prep Check In: RR 06/13/20

Prep Reconciled Initials/Date: CHT 05/24/20
Spike Reconciled Initials/Date: RR 06/13/20
VialBoxID: CURVE

PREPARATION BENCH SHEET

Matrix: Solid

BOF0086

Chemist: RR

Method: 1613 Full List

Prep Date/Time: 11-Jun-20 16:31

Prepared using: HRMS - Soxhlet

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:					
					CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
A1	BOF0086-BLK1 (B)	1VA	(10.00)	RR DF 06/13/20	YLL AZ 06/14/20	YLL 06/14/20	YLL 06/15/20	YLL 06/15/20	YLL 06/15/20	YLL AZ 06/14/20
A2	BOF0086-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
A3	BOF0086-DUP1 2000996-02RE1 (A)(B)	16.70	16.73	↓	↓	YLL 06/14/20	yellow/brown	↓	↓	↓
A4	BOF0086-DUP2 2001155-04	11.39	11.49	↓	↓	N/A	↓	↓	↓	↓
A5	BOF0086-DUP3 2001132-01	12.62	12.72	↓	↓	↓	brown	↓	↓	↓
A6	2000996-02RE1 (A)	16.70	16.80	↓	↓	YLL 06/14/20	yellow/brown	↓	↓	↓
A7	2001007-04RE1	13.39	13.46	↓	↓	↓	yellow/black	↓	↓	↓
A8	2001007-05RE1	16.13	16.36	↓	↓	↓	↓	↓	↓	↓
A9	2001007-06RE1	16.96	17.18	↓	↓	↓	↓	↓	↓	↓
A10	2001132-01 (D)	12.62	12.63	↓	↓	N/A	brown	↓	↓	↓
A11	2001132-02	11.25	11.27	↓	↓	↓	↓	↓	↓	↓
A12	2001132-03	10.91	10.96	↓	↓	↓	↓	↓	↓	↓
B1	2001132-04	11.67	11.72	↓	↓	↓	↓	↓	↓	↓
B2	2001132-05	13.36	13.49	↓	↓	↓	↓	↓	↓	↓
B3	2001155-01 06/13/20 (E)	11.05	11.08	↓	↓	YLL 06/14/20	yellow/brown	↓	↓	↓

IS: <u>19L2301, 10mL (V1)</u> NS: <u>18F1913, 10mL (V1)</u> PS/CRS: <u>20E0701, 10mL (V6)</u> RS: <u>20E0702, 10mL (V5)</u> (Diox/F PCB PAH PEST PBDE HCB)	Cycle Time Start Date/Time: <u>06/13/20</u> 1600 Stop Date/Time: <u>06/14/20</u> 0800	APP: SEFUN SOX (SDS) SOLV: <u>Toluene</u> Other: <u>NA</u> Final Volume(s): <u>C14</u> <u>20mL</u>	Check Out: Chemist/Date: <u>RR 06/13/20</u> Check In: Chemist/Date: <u>RR 06/13/20</u> Balance ID: <u>HRMS-8</u>	Soxhlet Siphoned Chemist/Date: <u>RR 06/13/20</u> Vial Transfer Chemist/Date: <u>YLL 06/16/20</u>	Notes: (A) samples look visibly different after extraction YLL 06/14/20 (B) samples went through 2nd sulfate funnel after AP to remove water YLL 06/14/20
--	---	--	--	--	---

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 blow down (not crystallized)
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist
- 7 = Soxhlet approached dryness

(C) left residue on conical vial during blow down (not crystallized) YLL 06/16/20
 (D) moved round bottom under column late during florisil YLL 06/15/20

PREPARATION BENCH SHEET

Matrix: Solid

B0F0086

Chemist: RP

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 11-Jun-20 16:31

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B4	2001155-02 (C)	10.88	11.02	RR DF 06/13/20	EM AZ 06/14/20	EM 06/14/20	EM 06/15/20 <small>yellow/brown</small>	EM 06/15/20	EM 06/15/20	EM AZ 06/16/20
B5	2001155-03	11.01	11.03	↓	↓	↓	↓	↓	↓	↓
B6	2001155-04	11.39	11.47	↓	↓	N/A	↓	↓	↓	↓
B7	2001155-05	11.51	11.58	↓	↓	↓	↓	↓	↓	↓

* EM 06/14/20

(C) moved roundbottom under column late during florisil EM 06/15/20

IS: <u>19L 2301, 10mL 4</u>	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: <u>RP 06/13/20</u>	Soxhlet Siphoned Chemist/Date: <u>RP 06/13/20</u>	Notes:
NS: <u>18F1913, 10mL V0</u>	Start Date/Time: <u>06/13/20 1600</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RP 06/13/20</u>	Vial Transfer Chemist/Date: <u>EM 06/16/20</u>	
PS/CRS: <u>20E0701, 10mL V0</u>	Stop Date/Time: <u>06/14/20</u>	Other: <u>NA</u>	Balance ID: <u>HRMS-8</u>		
RS: <u>20E0702, 10mL V5</u>		Final Volume(s): <u>44</u> <u>20mL</u>			
Diox/F PCB PAH PEST PBDE HCB					

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

Analyst: CHT ✓ Analyte: Dried at 110°C +/- 5°C Oven ID: 01 02 ✓	Test Code: %Moist/%Solids Units: %	Data Entry Verified by: (Initial and Date) CHT 06/02/20
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Inst HRMS-9 ✓

Date/Time IN: 5/29/20 11:15 ✓	Date/Time OUT: 6/1/20 9:50 ✓
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Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	Date										
	2001155-01	A ✓	Sample	1.3000 ✓	5.6000 ✓	5.1900 ✓	3.8900	90.47	Soil ✓	N/A	N/A	N/A	N/A	x ✓
	2001155-02	A ✓	Sample	1.3000 ✓	5.1500 ✓	4.8400 ✓	3.5400	91.95	Soil ✓	N/A	N/A	N/A	N/A	x ✓
	2001155-03	A ✓	Sample	1.3000 ✓	5.9800 ✓	5.5500 ✓	4.2500	90.81	Soil ✓	N/A	N/A	N/A	N/A	x ✓
	2001155-04	A ✓	Sample	1.3100 ✓	5.5700 ✓	5.0500 ✓	3.7400	87.79	Soil ✓	N/A	N/A	N/A	N/A	x ✓
	2001155-05	A ✓	Sample	1.3000 ✓	6.1900 ✓	5.5500 ✓	4.2500	86.91	Soil ✓	N/A	N/A	N/A	N/A	x ✓

*Sample homogenized in sample container unless otherwise noted.

Analyst: CHT Analyte: Dried at 110°C+/-5°C Oven ID: 01 <u>02</u>	Test Code: %Moist/%Solids Units: %	Data Entry Verified by: (Initial and Date) <u>NA</u>
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Inst HRMS-9

Date/Time IN: 05/29/20 1115
 Date/Time OUT: 06/01/20 0950

Particle Size	SampID	SampType	Initial and Date:	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
	2001155-01	A ↓	CHT 05/29/20 Pan Tare Wt. (gms) 1.30	5.60	CHT 06/01/20 Dry Pan and Sample Weight (g) 5.19			Soil ↓					✓
	2001155-02		1.30	5.15	4.84	CHT 06/01/20		CHT 06/01/20					✓
	2001155-03		1.30	5.98	5.55								✓
	2001155-04		1.31	5.57	5.05								✓
	2001155-05		1.30	6.19	5.55								✓

*Sample homogenized in sample container unless otherwise noted.

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000996-02RE1	16.8 ✓	59.88593	10.0608	20 ✓	08-May-20 12:49	RR ✓			Sediment	1613 Full List
2001007-04RE1	13.46 ✓	74.69697	10.0542	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001007-05RE1	16.36 ✓	61.99525	10.1424	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001007-06RE1	17.18 ✓	58.94736	10.1272	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001132-01	12.63 ✓	79.25764	10.0102	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001132-02	11.27 ✓	88.91625	10.0209	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001132-03	10.96 ✓	91.61848	10.0414	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001132-04	11.72 ✓	85.66978	10.0405	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001132-05	13.49 ✓	74.82679	10.0941	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001155-01	11.08 ✓	90.46512	10.0235	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001155-02	11.02 ✓	91.94805	10.1327	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001155-03	11.03 ✓	90.81197	10.0166	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001155-04	11.47 ✓	87.79343	10.0699	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001155-05	11.58 ✓	86.91207	10.0644	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
B0F0086-BLK1	10 ✓	100	(10.00)	20	11-Jun-20 16:31	RR				QC
B0F0086-BS1	10 ✓	100	(10.00)	20	11-Jun-20 16:31	RR	18F1913 ✓	10 ✓		QC
B0F0086-DUP1	16.73 ✓	59.88593	10.0189101	20	11-Jun-20 16:31	RR				QC
B0F0086-DUP2	11.49 ✓	87.79343	10.0874651	20	11-Jun-20 16:31	RR				QC
B0F0086-DUP3	12.72 ✓	79.25764	10.0815718	20 ✓	11-Jun-20 16:31	RR ✓				QC

All bolded data on report verified against written benchsheet by (initial/date) EM 06/16/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG7.PRO\Results\200623D2\200623D2_5.qld

Last Altered: Wednesday, June 24, 2020 11:52:58 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 11:53:54 Pacific Daylight Time

DB 6/24/20 C7 06/25/2020

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt.mdb 27 Apr 2020 14:17:24
Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Name: 200623D2_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.986	10.000	26.081		1.001				0.519	0.479
2	2 1,2,3,7,8-PeCDD			NO	0.964	10.000	30.629		1.001				0.418	
3	3 1,2,3,4,7,8-HxCDD			NO	1.16	10.000	33.916		1.000				0.605	
4	4 1,2,3,6,7,8-HxCDD			NO	1.01	10.000	34.016		1.000				0.665	
5	5 1,2,3,7,8,9-HxCDD			NO	1.01	10.000	34.346		1.001				0.716	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.997	10.000	37.801		1.000				1.26	
7	7 OCDD			NO	1.01	10.000	41.038		1.000				1.09	
8	8 2,3,7,8-TCDF			NO	0.833	10.000	25.280		1.001				0.393	
9	9 1,2,3,7,8-PeCDF			NO	0.965	10.000	29.442		1.001				0.201	
10	10 2,3,4,7,8-PeCDF			NO	1.01	10.000	30.357		1.001				0.195	
11	11 1,2,3,4,7,8-HxCDF			NO	1.09	10.000	33.017		1.000				0.232	
12	12 1,2,3,6,7,8-HxCDF			NO	1.07	10.000	33.159		1.000				0.238	
13	13 2,3,4,6,7,8-HxCDF			NO	1.15	10.000	33.776		1.001				0.261	
14	14 1,2,3,7,8,9-HxCDF			NO	1.11	10.000	34.674		1.000				0.390	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.16	10.000	36.555		1.001				0.321	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.35	10.000	38.317		1.000				0.332	
17	17 OCDF			NO	0.949	10.000	41.247		1.000				0.741	
18	18 13C-2,3,7,8-TCDD	4.53e4	0.79	NO	1.26	10.000	26.131	26.05	1.026	1.023	133.18	66.6	2.53	
19	19 13C-1,2,3,7,8-PeCDD	3.80e4	0.64	NO	0.921	10.000	30.614	30.61	1.202	1.202	152.81	76.4	0.719	
20	20 13C-1,2,3,4,7,8-HxCDD	2.76e4	1.35	NO	0.707	10.000	33.902	33.91	1.014	1.014	142.62	71.3	2.31	
21	21 13C-1,2,3,6,7,8-HxCDD	3.48e4	1.32	NO	0.829	10.000	34.012	34.02	1.017	1.017	153.67	76.8	1.97	
22	22 13C-1,2,3,7,8,9-HxCDD	3.21e4	1.31	NO	0.808	10.000	34.283	34.31	1.025	1.026	145.47	72.7	2.02	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.38e4	1.03	NO	0.662	10.000	37.747	37.79	1.129	1.130	131.68	65.8	1.68	
24	24 13C-OCDD	3.80e4	0.88	NO	0.608	10.000	40.769	41.04	1.219	1.227	228.33	57.1	1.65	
25	25 13C-2,3,7,8-TCDF	6.44e4	0.81	NO	1.07	10.000	25.214	25.25	0.990	0.992	131.83	65.9	1.57	
26	26 13C-1,2,3,7,8-PeCDF	6.08e4	1.62	NO	0.826	10.000	29.435	29.42	1.156	1.155	160.80	80.4	1.31	
27	27 13C-2,3,4,7,8-PeCDF	5.72e4	1.75	NO	0.796	10.000	30.334	30.33	1.191	1.191	157.17	78.6	1.35	
28	28 13C-1,2,3,4,7,8-HxCDF	4.07e4	0.50	NO	1.08	10.000	33.033	33.02	0.988	0.988	138.56	69.3	1.40	
29	29 13C-1,2,3,6,7,8-HxCDF	4.53e4	0.51	NO	1.12	10.000	33.167	33.15	0.992	0.991	147.44	73.7	1.34	
30	30 13C-2,3,4,6,7,8-HxCDF	3.96e4	0.51	NO	1.02	10.000	33.738	33.74	1.009	1.009	141.44	70.7	1.47	
31	31 13C-1,2,3,7,8,9-HxCDF	3.21e4	0.49	NO	0.887	10.000	34.638	34.67	1.036	1.037	132.55	66.3	1.70	

Dataset: U:\VG7.PRO\Results\200623D2\200623D2_5.qld

Last Altered: Wednesday, June 24, 2020 11:52:58 Pacific Daylight Time

Printed: Wednesday, June 24, 2020 11:53:54 Pacific Daylight Time

Name: 200623D2_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.95e4	0.42	NO	0.811	10.000	36.343	36.52	1.087	1.092	133.16	66.6	1.63	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.11e4	0.42	NO	0.598	10.000	38.349	38.32	1.147	1.146	128.88	64.4	2.21	
34	34 13C-OCDF	4.68e4	0.88	NO	0.752	10.000	40.923	41.25	1.224	1.234	227.58	56.9	1.64	
35	35 37Cl-2,3,7,8-TCDD	1.87e4			1.24	10.000	26.129	26.07	1.026	1.023	55.790	69.7	0.264	
36	36 13C-1,2,3,4-TCDD	5.40e4	0.83	NO	1.00	10.000	25.480	25.47	1.000	1.000	200.00	100	3.18	
37	37 13C-1,2,3,4-TCDF	9.15e4	0.78	NO	1.00	10.000	24.020	24.02	1.000	1.000	200.00	100	1.67	
38	38 13C-1,2,3,4,6,9-HxCDF	5.47e4	0.49	NO	1.00	10.000	33.530	33.43	1.000	1.000	200.00	100	1.51	
39	39 Total Tetra-Dioxins				0.986	10.000	24.620		0.000				0.359	
40	40 Total Penta-Dioxins				0.964	10.000	29.960		0.000				0.195	
41	41 Total Hexa-Dioxins				1.01	10.000	33.635		0.000				0.289	
42	42 Total Hepta-Dioxins				0.997	10.000	37.640		0.000				0.445	
43	43 Total Tetra-Furans				0.833	10.000	23.610		0.000		0.00000		0.189	0.596
44	44 1st Func. Penta-Furans				0.965	10.000	27.090		0.000				0.0407	
45	45 Total Penta-Furans				0.965	10.000	29.275		0.000				0.0970	
46	46 Total Hexa-Furans				1.15	10.000	33.555		0.000				0.144	
47	47 Total Hepta-Furans				1.16	10.000	37.835		0.000				0.218	

Dataset: U:\VG7.PRO\Results\200623D2\200623D2_5.qld

Last Altered: Wednesday, June 24, 2020 11:52:58 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 11:53:54 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt.mdb 27 Apr 2020 14:17:24
Calibration: U:\VG7.PRO\CurveDB\1db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Name: 200623D2_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-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	Total Tetra-Furans	25.48	2.011e3	1.458e3	1.128e2	9.042e1	1.25	YES	0.000e0	0.00000	0.59644	0.189

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:\VG7.PRO\Results\200623D2\200623D2_5.qld

Last Altered: Wednesday, June 24, 2020 11:52:58 Pacific Daylight Time

Printed: Wednesday, June 24, 2020 11:53:54 Pacific Daylight Time

Name: 200623D2_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

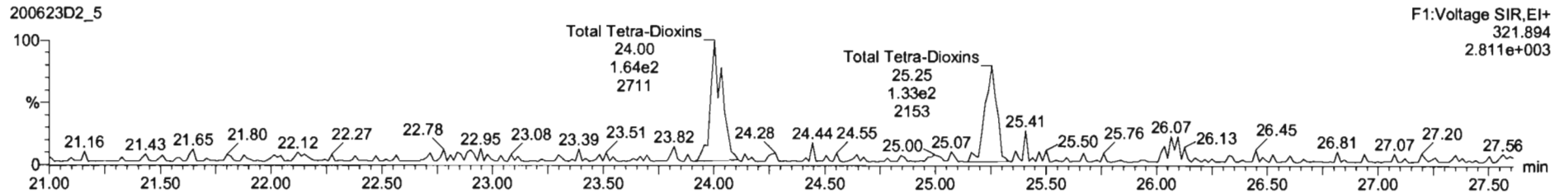
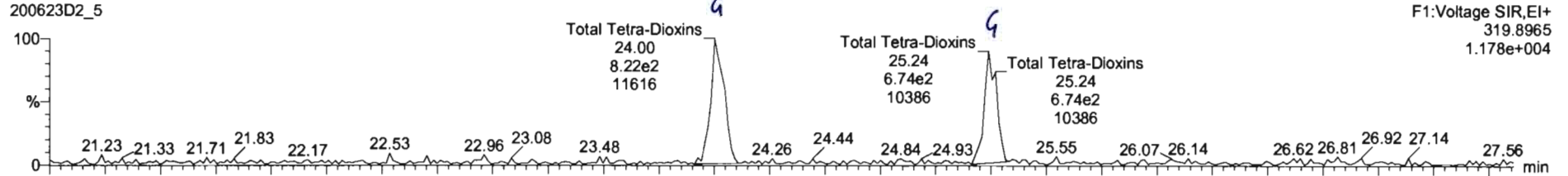
Dataset: U:\VG7.PRO\Results\200623D2\200623D2_5.qld

Last Altered: Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

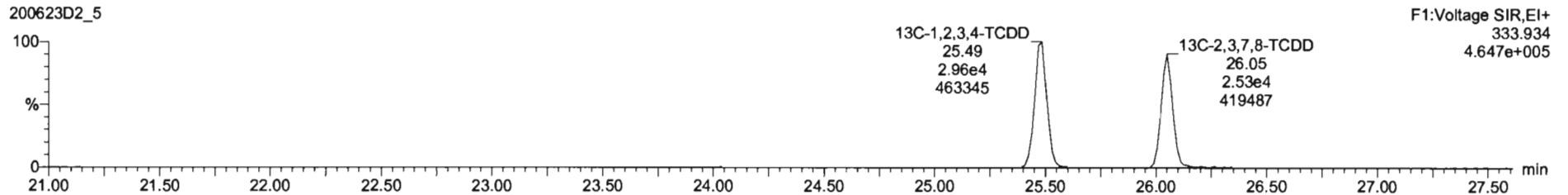
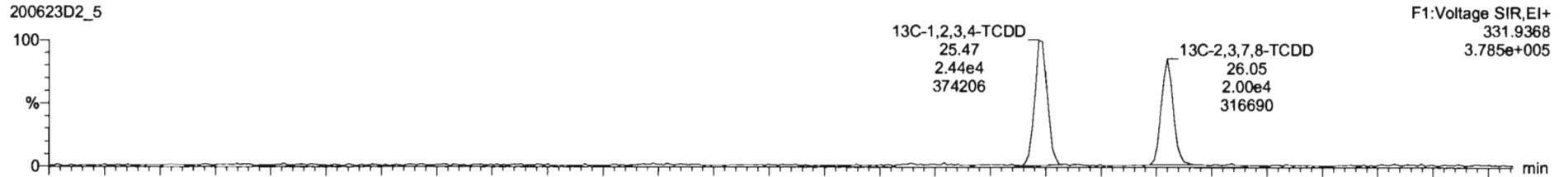
Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt.mdb 27 Apr 2020 14:17:24
Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

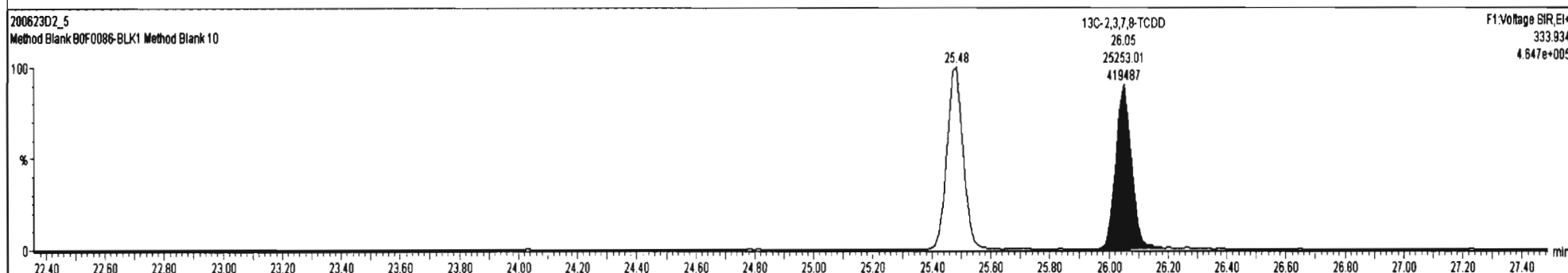
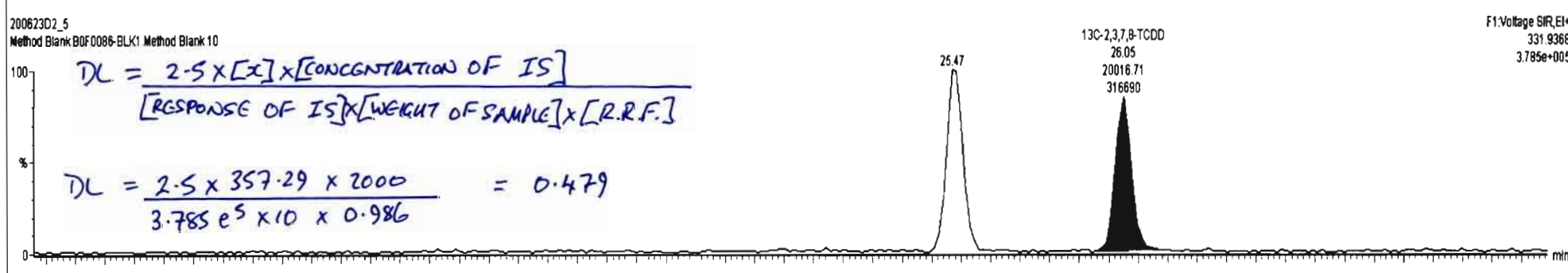
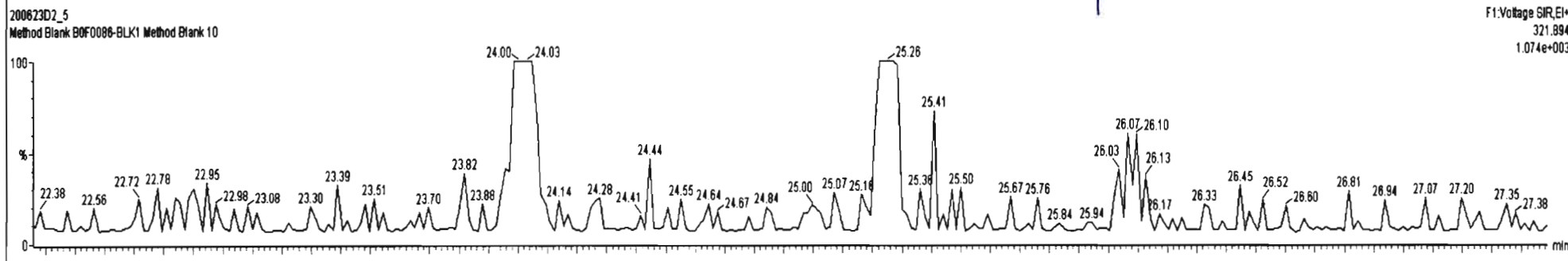
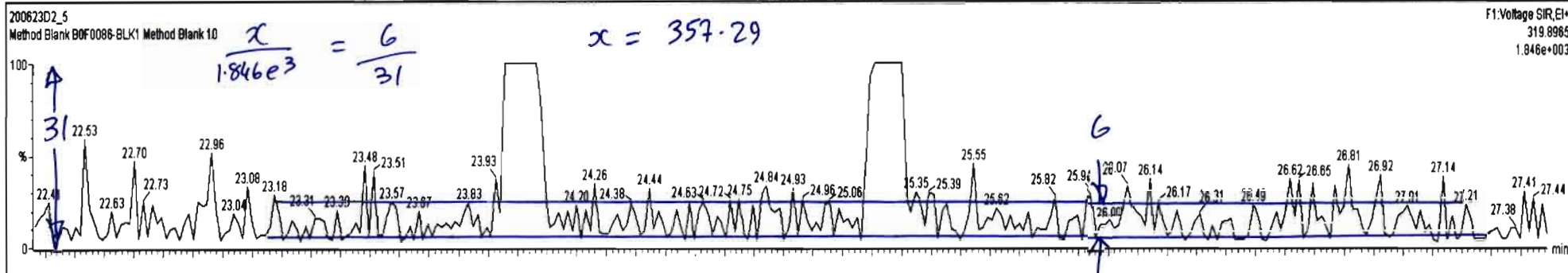
Name: 200623D2_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD



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





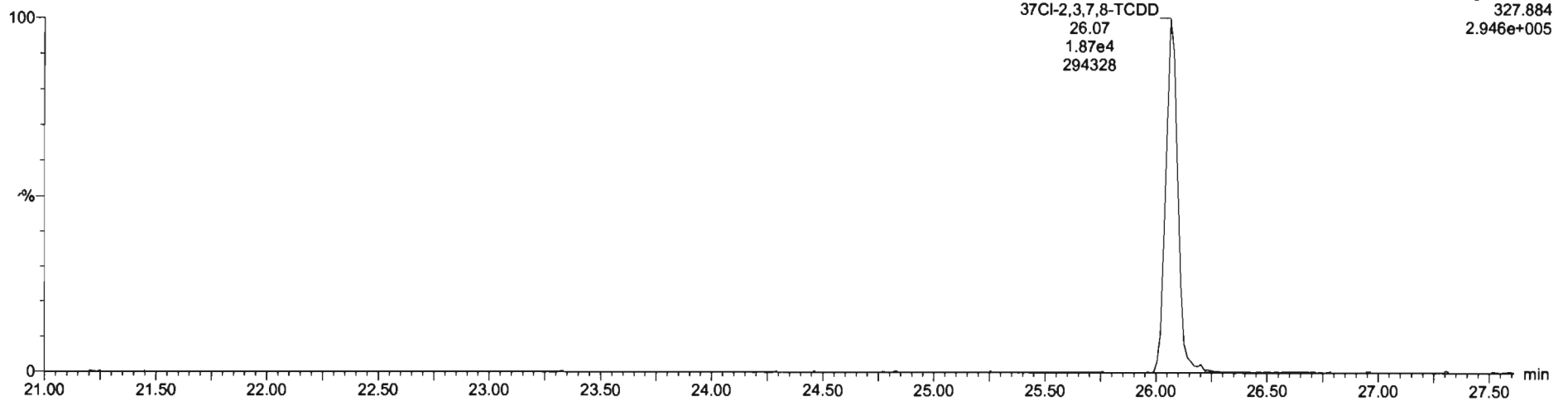
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Last Altered: Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

Name: 200623D2_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

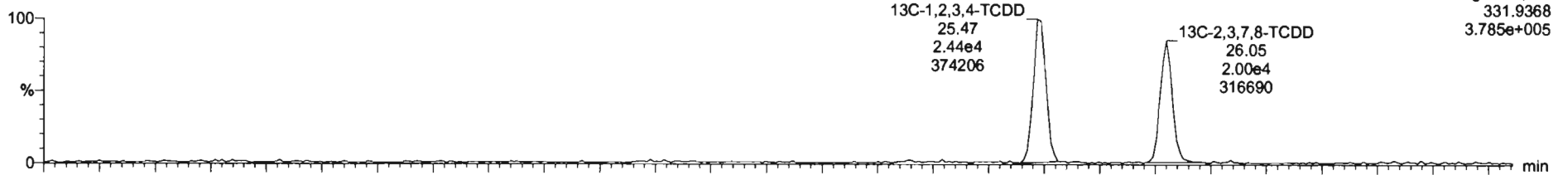
37Cl-2,3,7,8-TCDD

200623D2_5

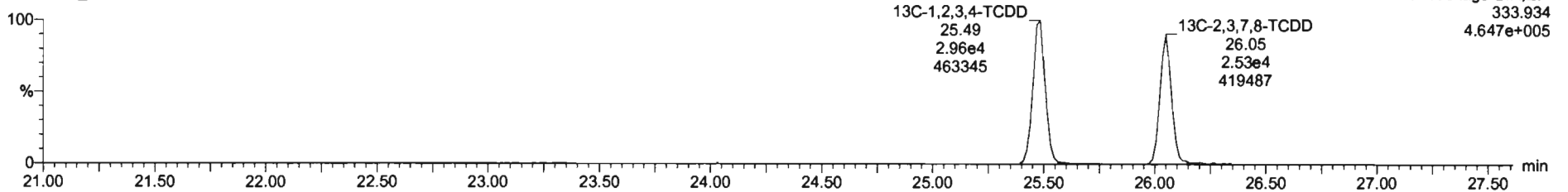


13C-1,2,3,4-TCDD

200623D2_5



200623D2_5



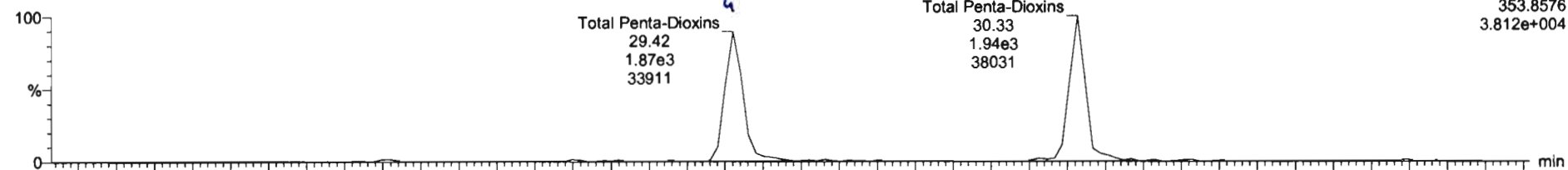
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Last Altered: Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

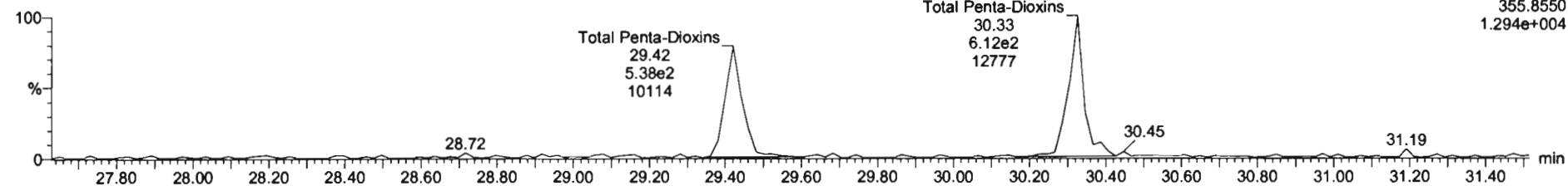
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1,2,3,7,8-PeCDD

200623D2_5

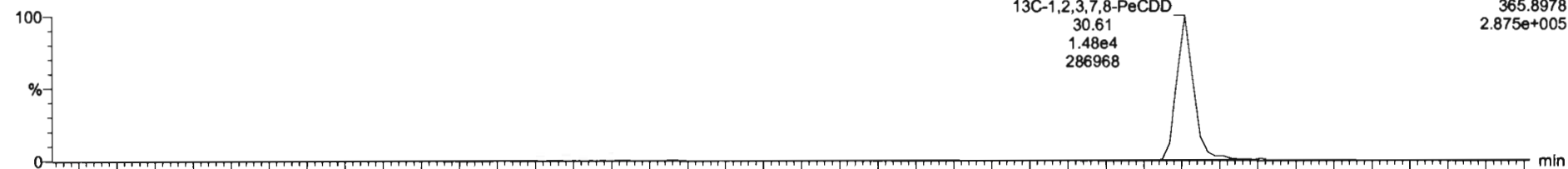


200623D2_5

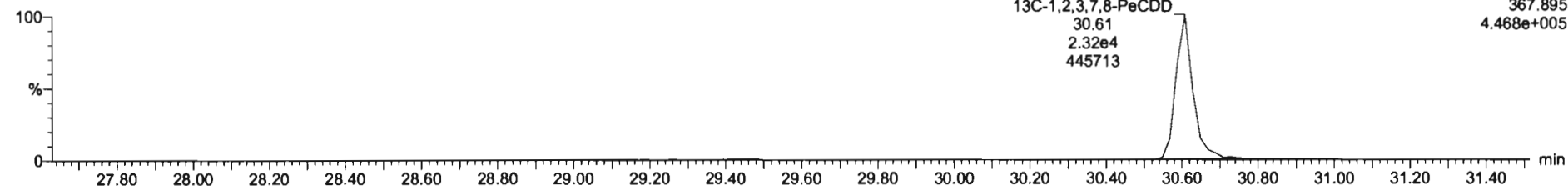


13C-1,2,3,7,8-PeCDD

200623D2_5



200623D2_5



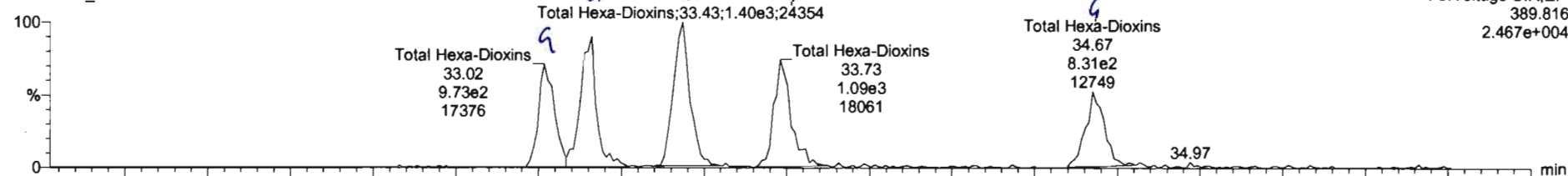
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Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

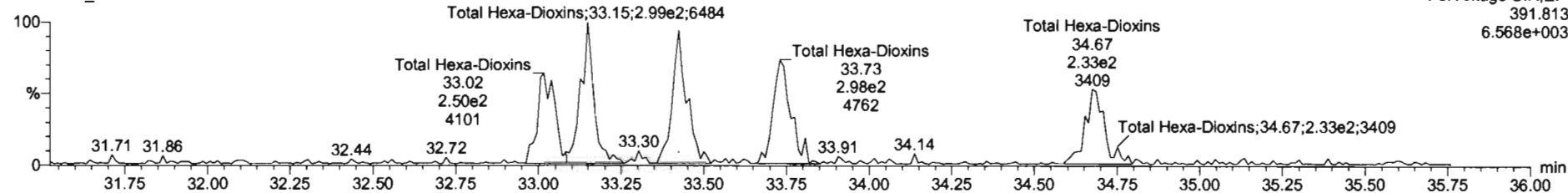
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1,2,3,4,7,8-HxCDD

200623D2_5

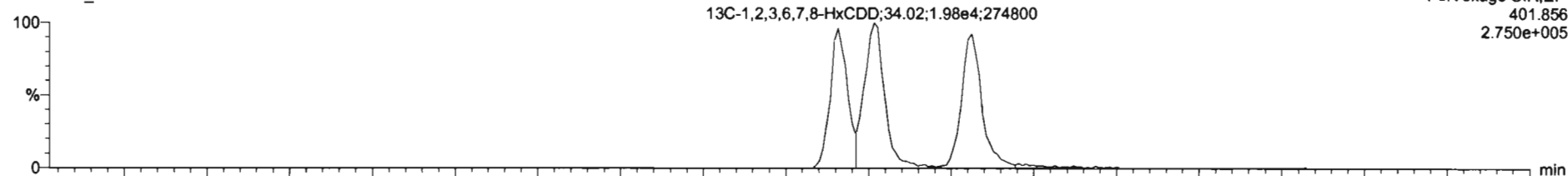


200623D2_5

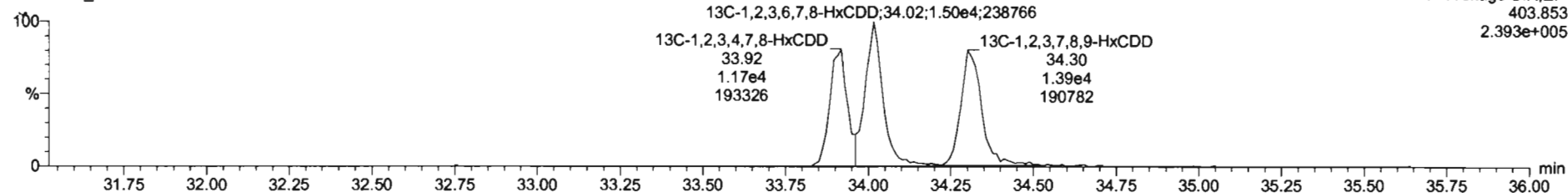


13C-1,2,3,4,7,8-HxCDD

200623D2_5



200623D2_5



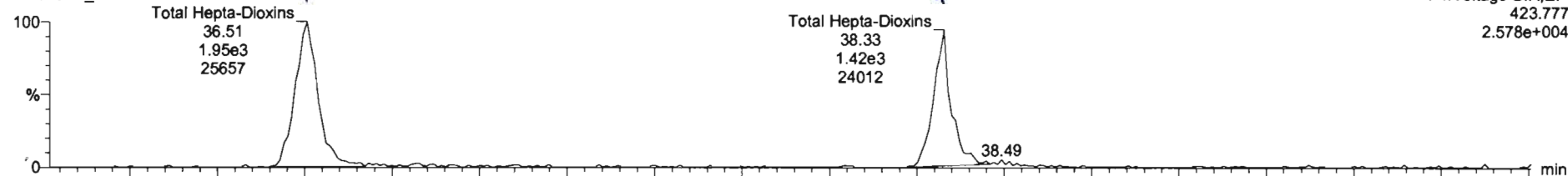
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Last Altered: Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

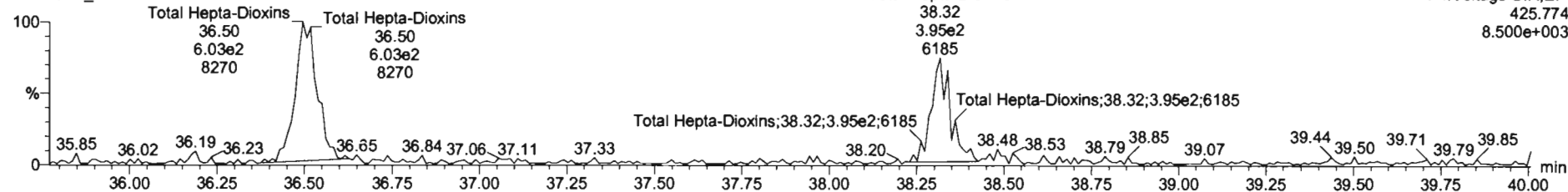
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1,2,3,4,6,7,8-HpCDD

200623D2_5

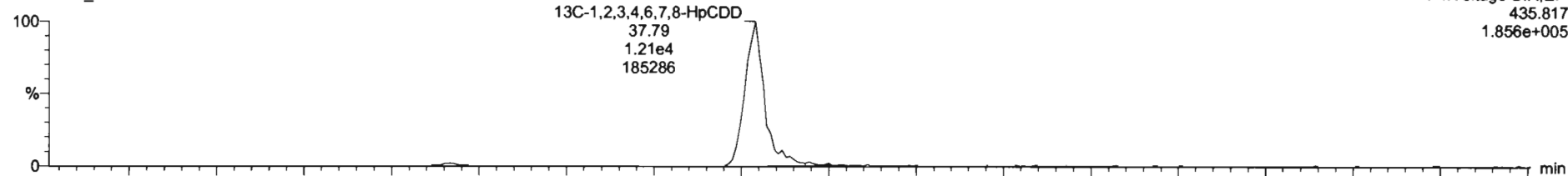


200623D2_5

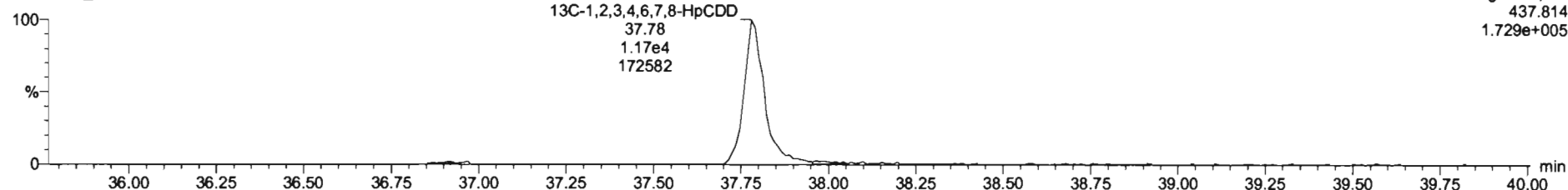


13C-1,2,3,4,6,7,8-HpCDD

200623D2_5



200623D2_5



Dataset: U:\VG7.PRO\Results\200623D2\200623D2_5.qld

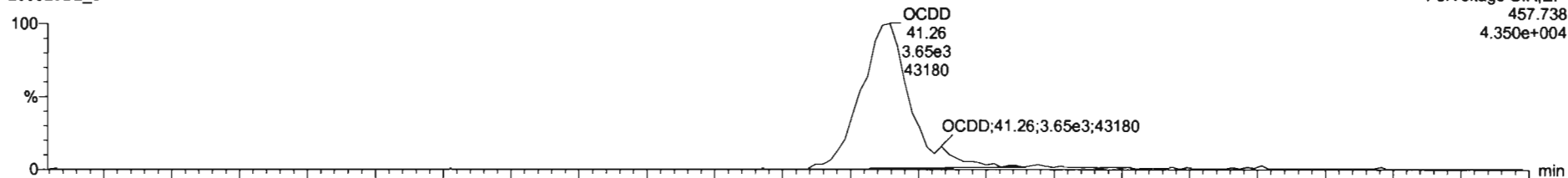
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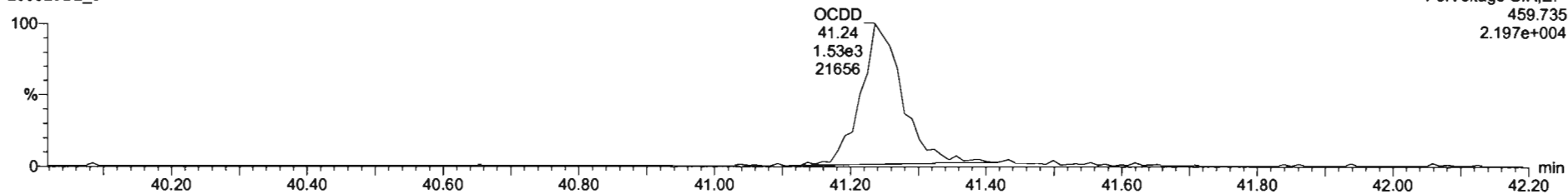
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OCDD

200623D2_5

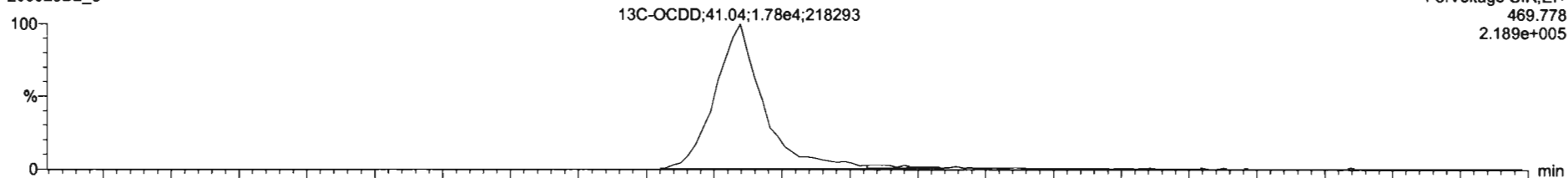


200623D2_5

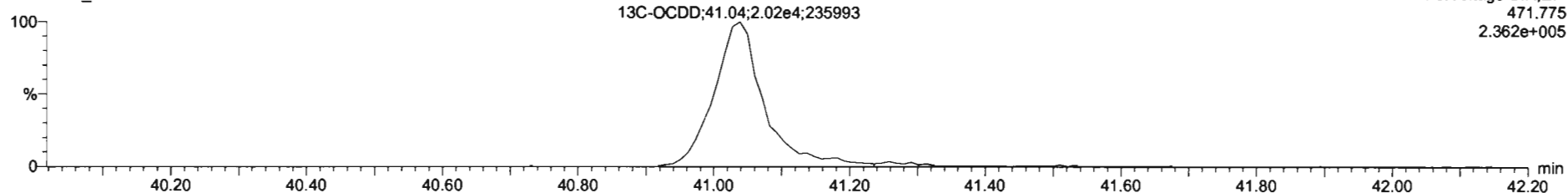


13C-OCDD

200623D2_5



200623D2_5



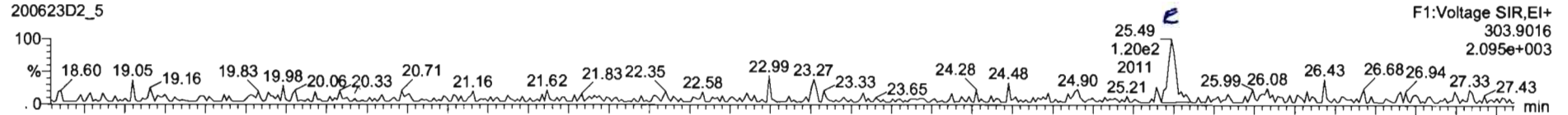
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Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

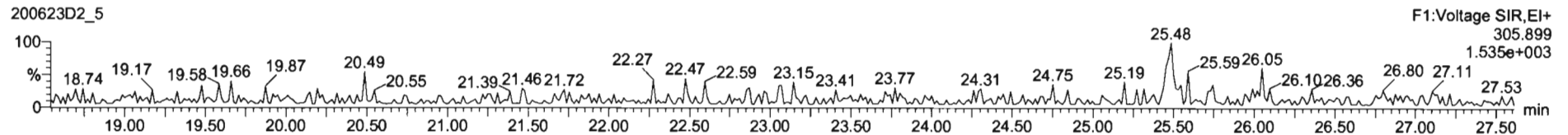
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2,3,7,8-TCDF

200623D2_5

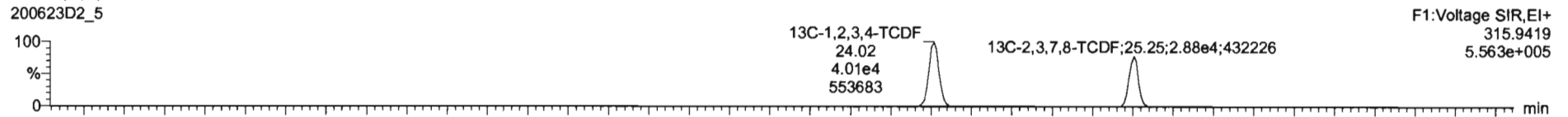


200623D2_5

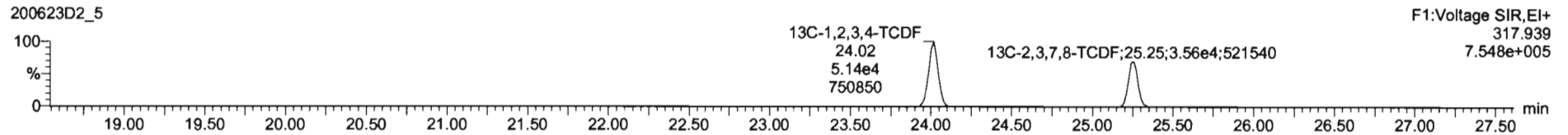


13C-2,3,7,8-TCDF

200623D2_5

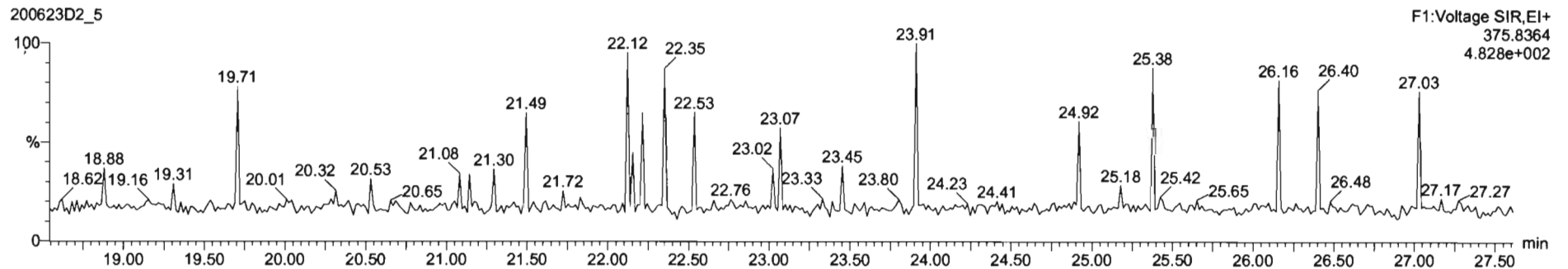


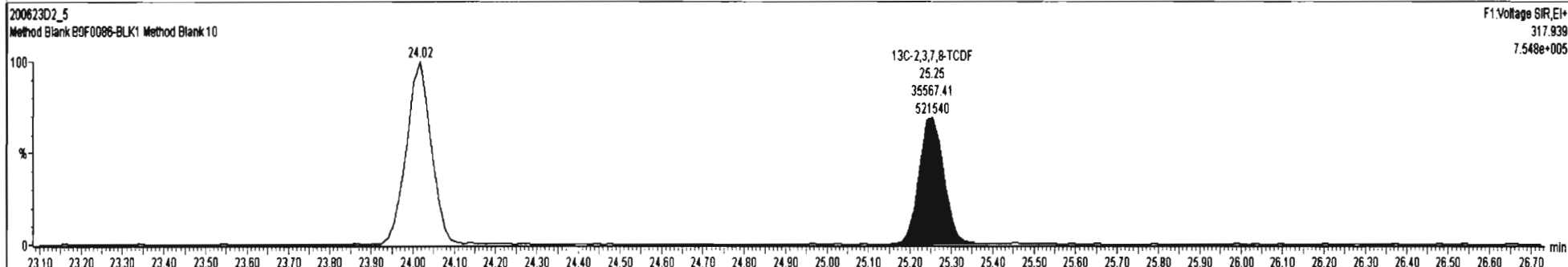
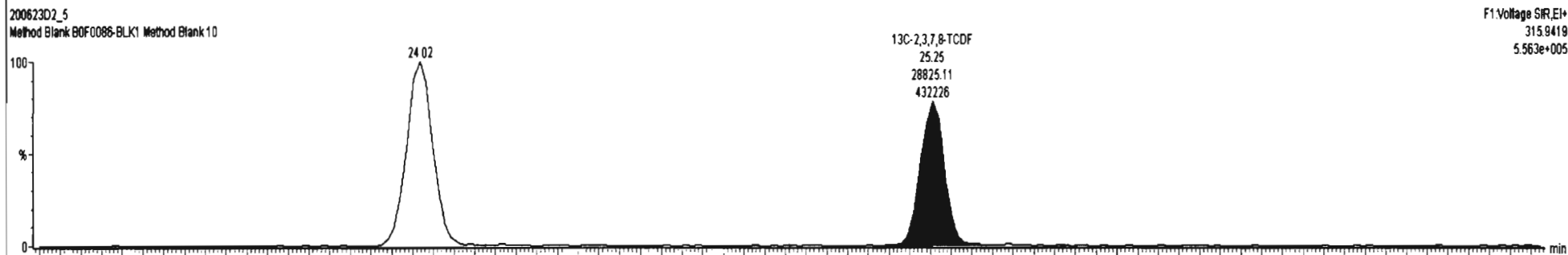
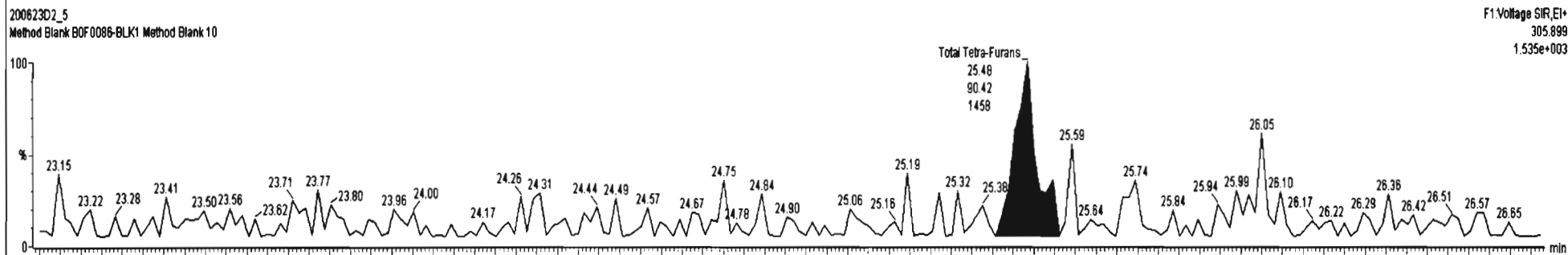
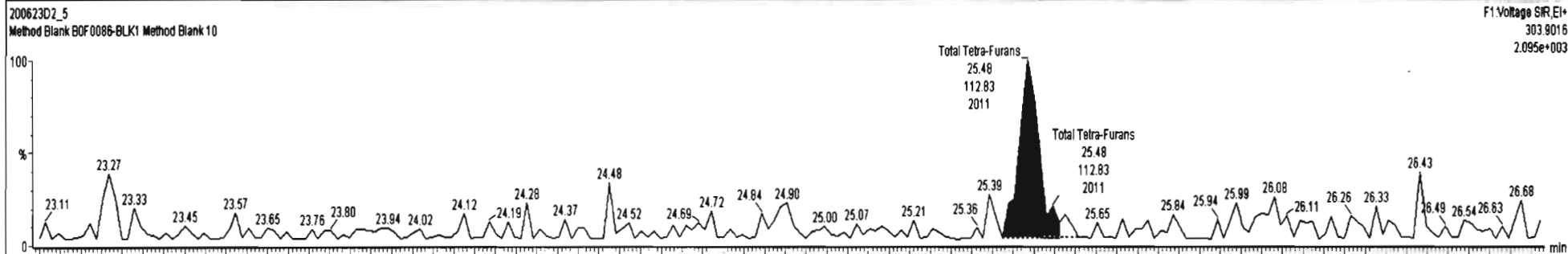
200623D2_5



DPE1

200623D2_5





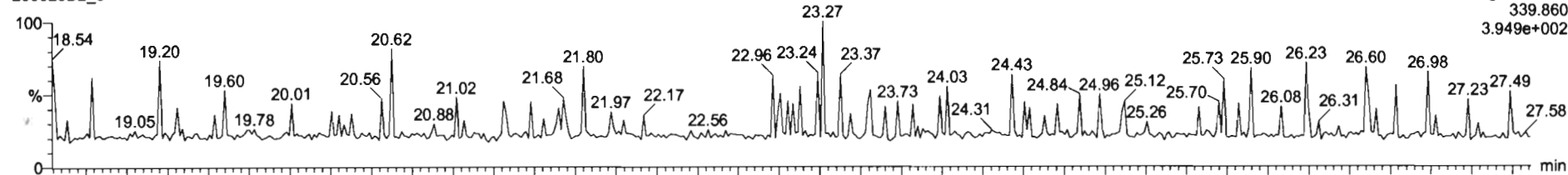
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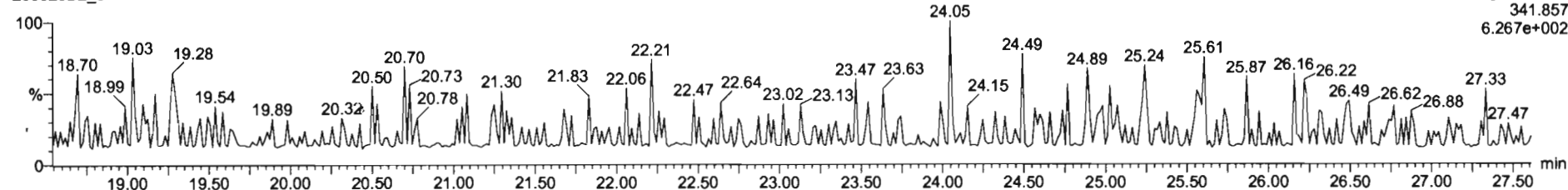
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1st Func. Penta-Furans

200623D2_5

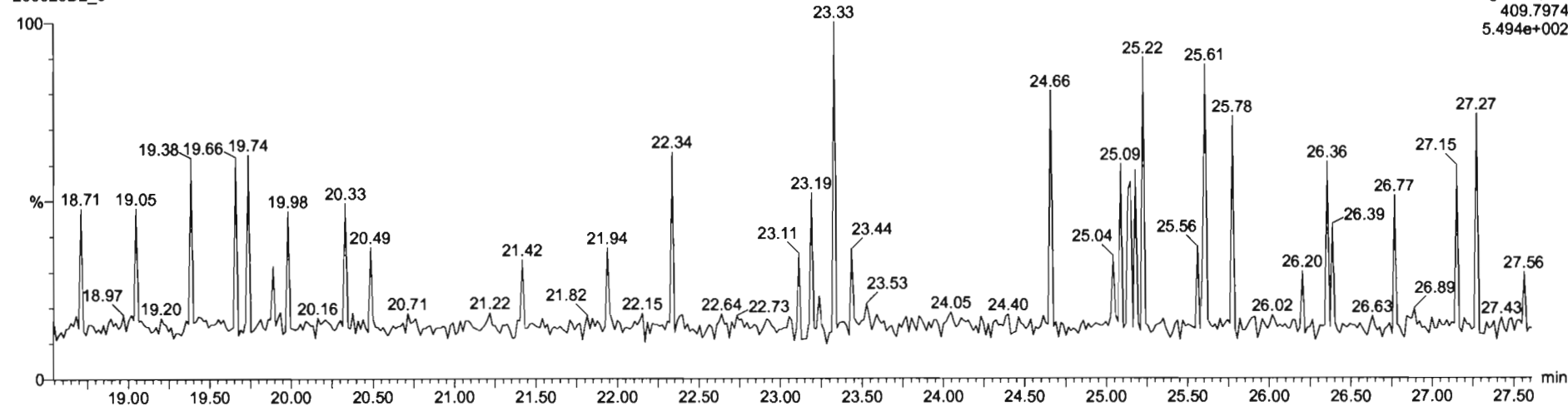


200623D2_5



DPE6

200623D2_5



Dataset: U:\VG7.PRO\Results\2\00623D2\200623D2_5.qld

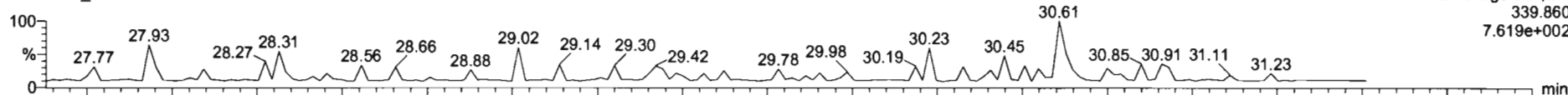
Last Altered: Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

Name: 200623D2_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDF

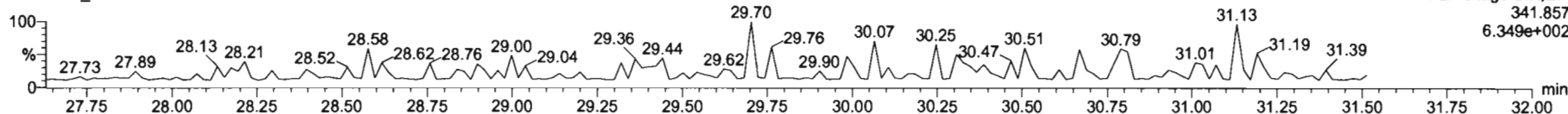
200623D2_5

F2:Voltage SIR,EI+
339.860
7.619e+002



200623D2_5

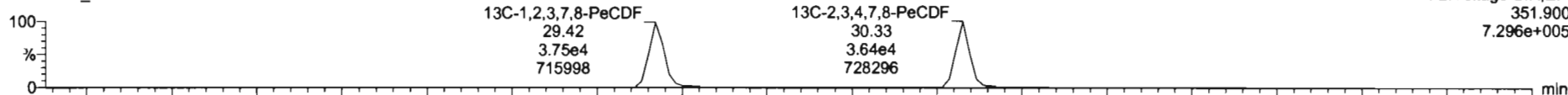
F2:Voltage SIR,EI+
341.857
6.349e+002



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

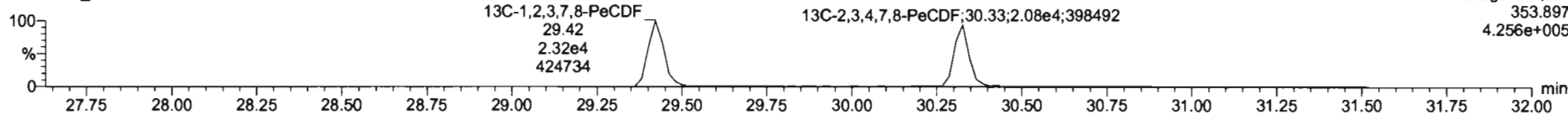
200623D2_5

F2:Voltage SIR,EI+
351.900
7.296e+005



200623D2_5

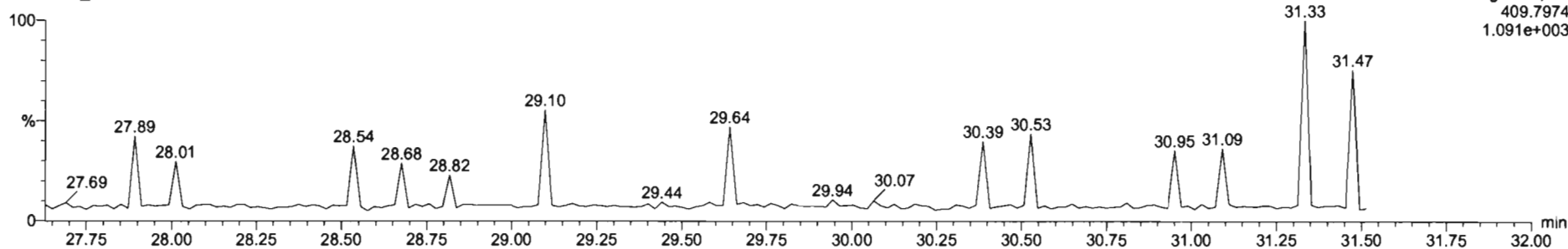
F2:Voltage SIR,EI+
353.897
4.256e+005



DPE2

200623D2_5

F2:Voltage SIR,EI+
409.7974
1.091e+003

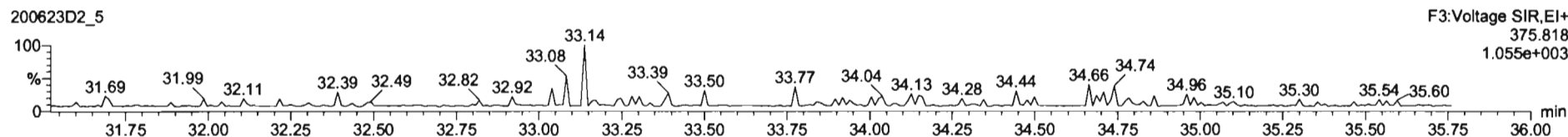
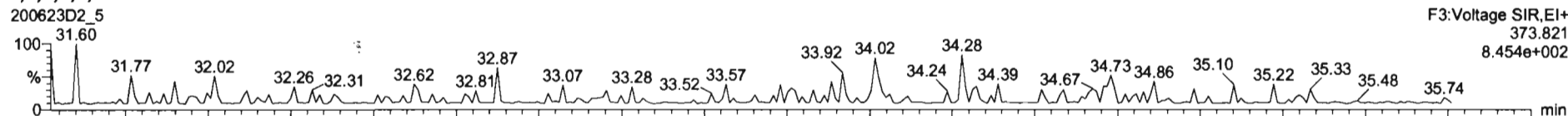


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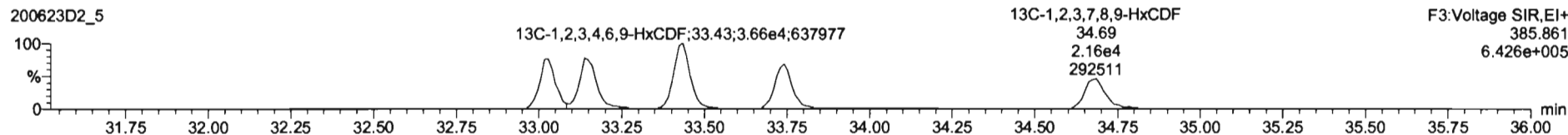
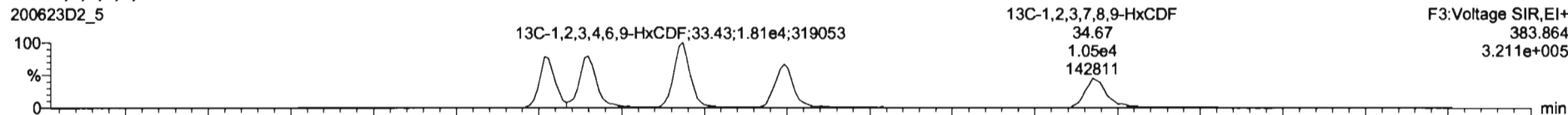
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Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

Name: 200623D2_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

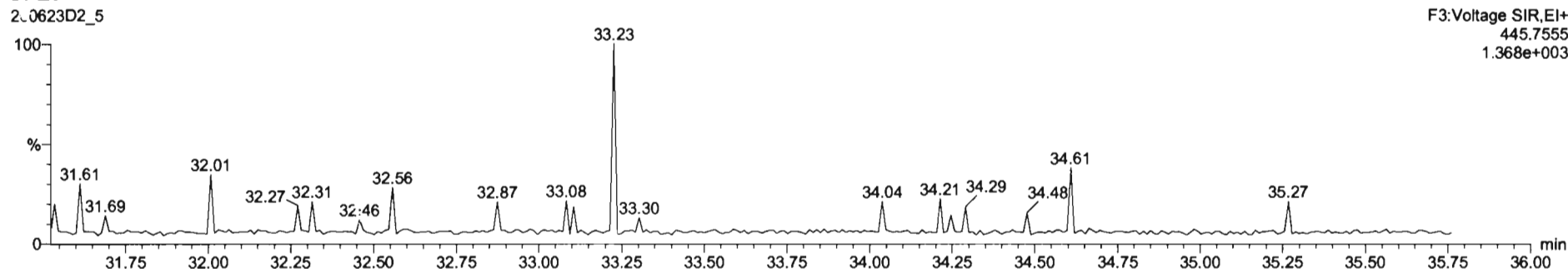
1,2,3,4,7,8-HxCDF



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



DPE3

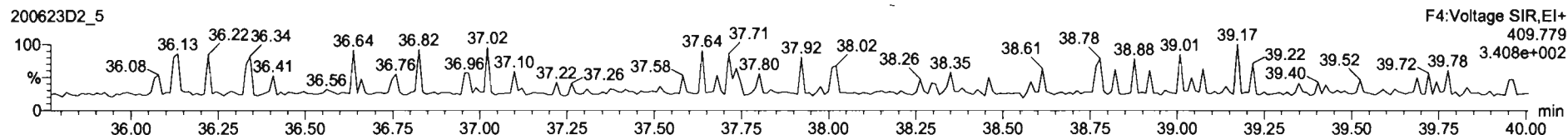
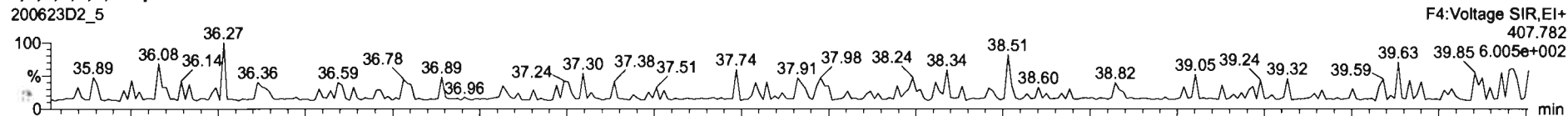


Dataset: U:\VG7.PRO\Results\200623D2\200623D2_5.qld

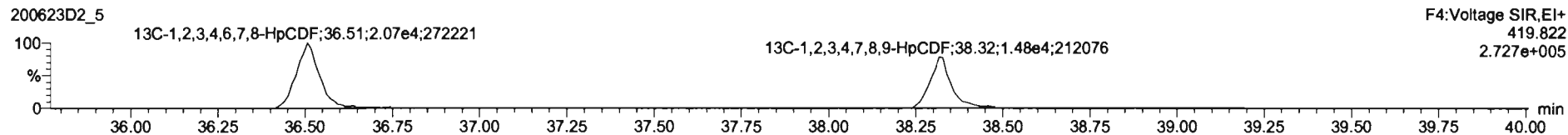
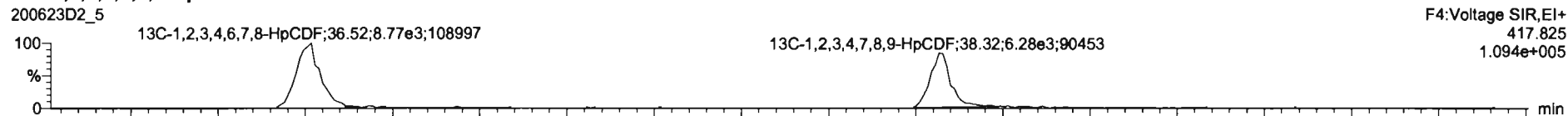
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Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

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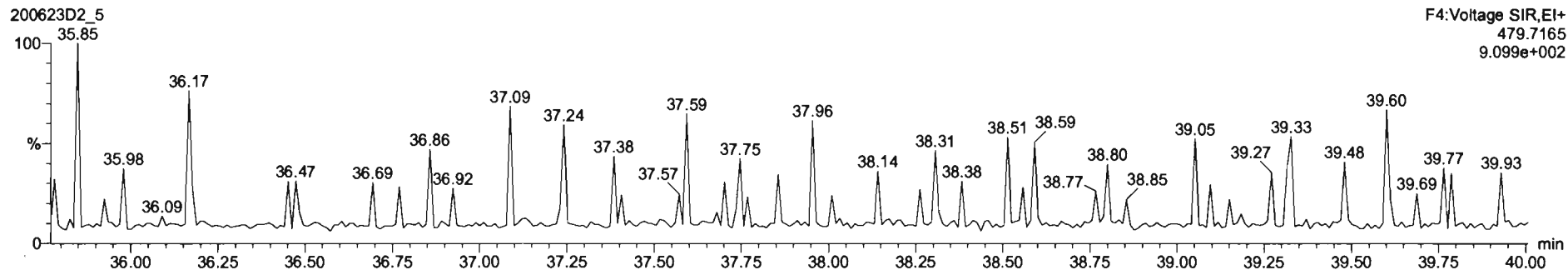
1,2,3,4,6,7,8-HpCDF



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



DPE4

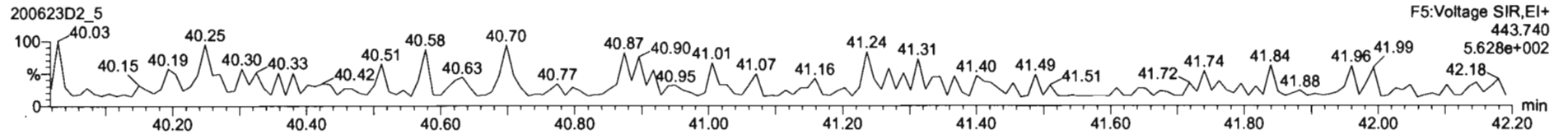
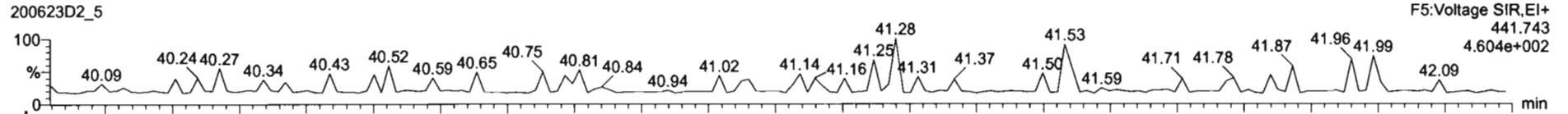


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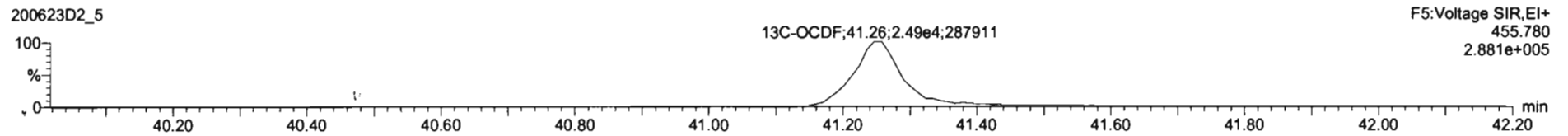
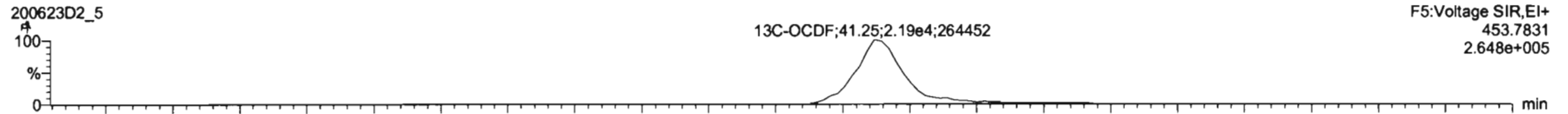
Last Altered: Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

Name: 200623D2_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

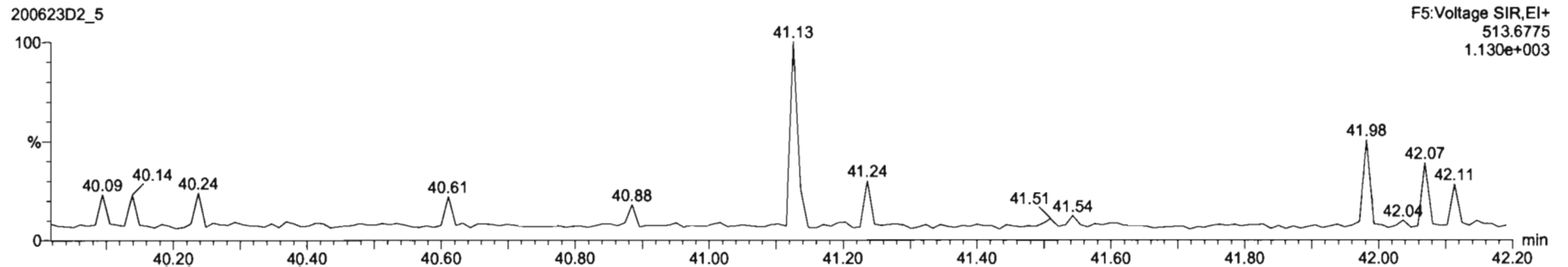
OCDF



13C-OCDF



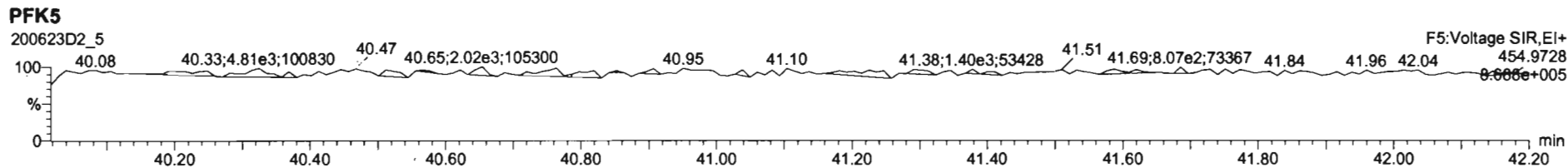
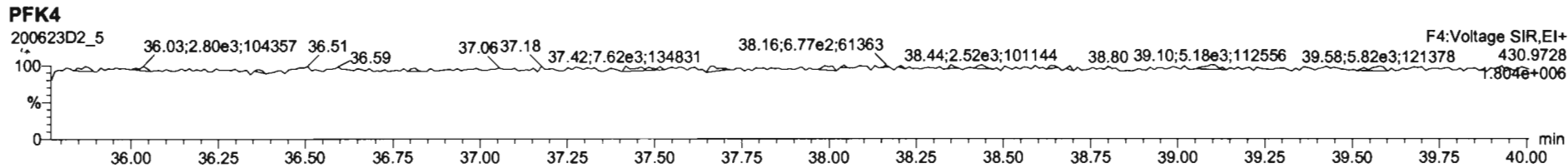
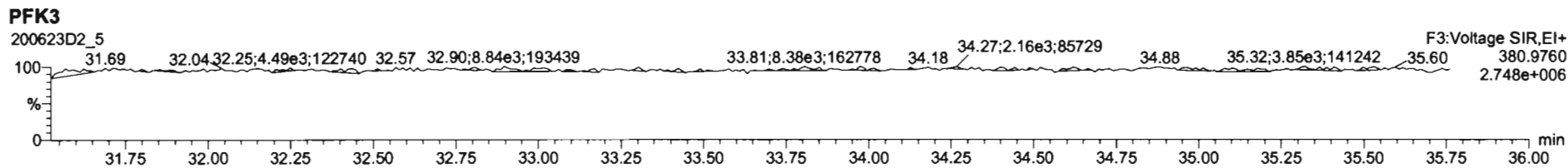
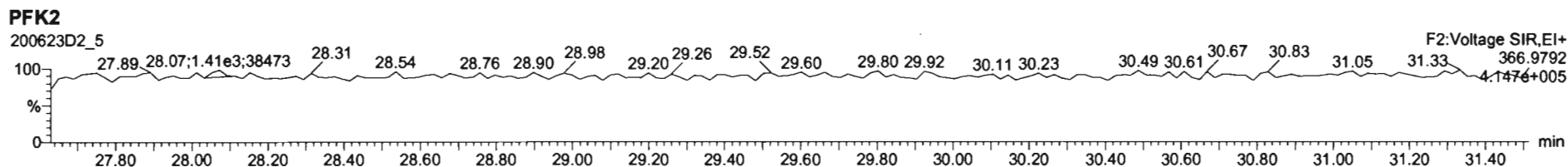
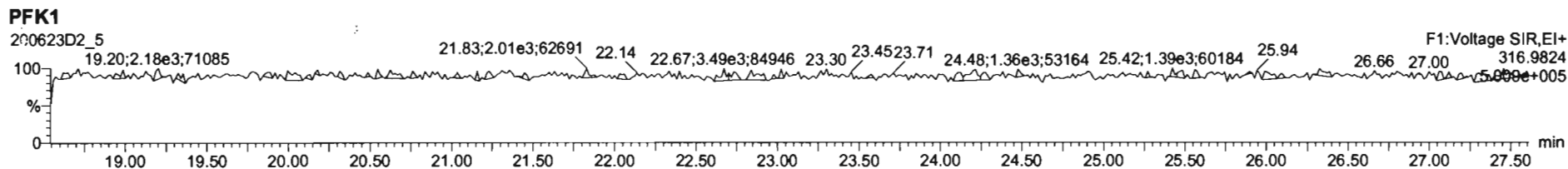
DPE5



Dataset: U:\VG7.PRO\Results\200623D2\200623D2_5.qld

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Printed: Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

Name: 200623D2_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG7.PRO\Results\200623D2\200623D2_3.qld

Last Altered: Wednesday, June 24, 2020 11:41:56 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 11:43:36 Pacific Daylight Time

DB 6/24/20 0706/25/2020

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt.mdb 27 Apr 2020 14:17:24
Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Name: 200623D2_3, Date: 23-Jun-2020, Time: 22:55:42, ID: B0F0086-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	9.61e2	0.79	NO	0.986	10.000	26.097	26.10	1.001	1.001	21.264	106 <i>67-158</i>	2.60	21.3
2	2 1,2,3,7,8-PeCDD	5.83e3	0.64	NO	0.964	10.000	30.629	30.63	1.001	1.001	102.22	102 <i>70-142</i>	1.53	102
3	3 1,2,3,4,7,8-HxCDD	6.89e3	1.25	NO	1.16	10.000	33.927	33.94	1.000	1.001	92.805	92.8 <i>70-164</i>	1.98	92.8
4	4 1,2,3,6,7,8-HxCDD	8.48e3	1.27	NO	1.01	10.000	34.027	34.04	1.000	1.000	96.092	96.1 <i>76-134</i>	1.72	96.1
5	5 1,2,3,7,8,9-HxCDD	1.08e4	1.19	NO	1.01	10.000	34.346	34.33	1.001	1.001	90.926	90.9 <i>64-162</i>	1.37	90.9
6	6 1,2,3,4,6,7,8-HpCDD	9.23e3	1.14	NO	0.997	10.000	37.801	37.80	1.000	1.000	99.656	99.7 <i>70-140</i>	1.75	99.7
7	7 OCDD	1.59e4	0.83	NO	1.01	10.000	41.038	41.05	1.000	1.000	184.23	92.1 <i>78-144</i>	2.27	184
8	8 2,3,7,8-TCDF	1.10e3	0.88	NO	0.833	10.000	25.280	25.29	1.001	1.001	21.615	108 <i>75-158</i>	2.39	21.6
9	9 1,2,3,7,8-PeCDF	7.17e3	1.49	NO	0.965	10.000	29.462	29.44	1.001	1.000	92.990	93.0 <i>80-134</i>	1.38	93.0
10	10 2,3,4,7,8-PeCDF	6.81e3	1.43	NO	1.01	10.000	30.356	30.35	1.001	1.001	98.709	98.7 <i>68-160</i>	1.59	98.7
11	11 1,2,3,4,7,8-HxCDF	9.79e3	1.23	NO	1.09	10.000	33.039	33.05	1.000	1.000	103.23	103 <i>72-134</i>	1.66	103
12	12 1,2,3,6,7,8-HxCDF	1.22e4	1.26	NO	1.07	10.000	33.159	33.17	1.000	1.001	104.30	104 <i>84-130</i>	1.47	104
13	13 2,3,4,6,7,8-HxCDF	1.38e4	1.26	NO	1.15	10.000	33.786	33.75	1.001	1.000	99.799	99.8 <i>70-156</i>	1.37	99.8
14	14 1,2,3,7,8,9-HxCDF	9.32e3	1.24	NO	1.11	10.000	34.685	34.70	1.000	1.000	100.17	100 <i>78-130</i>	2.37	100
15	15 1,2,3,4,6,7,8-HpCDF	1.33e4	1.01	NO	1.16	10.000	36.554	36.53	1.001	1.000	97.079	97.1 <i>82-122</i>	1.47	97.1
16	16 1,2,3,4,7,8,9-HpCDF	9.55e3	1.05	NO	1.35	10.000	38.328	38.34	1.000	1.000	98.726	98.7 <i>78-138</i>	1.85	98.7
17	17 OCDF	2.11e4	0.92	NO	0.949	10.000	41.258	41.28	1.000	1.001	218.94	109 <i>63-170</i>	1.85	219
18	18 13C-2,3,7,8-TCDD	9.16e3	0.88	NO	1.26	10.000	26.163	26.07	1.026	1.022	31.439	15.7 <i>20-175</i>	2.94	
19	19 13C-1,2,3,7,8-PeCDD	1.18e4	0.58	NO	0.921	10.000	30.651	30.61	1.202	1.200	55.474	27.7 <i>21-227</i>	1.03	
20	20 13C-1,2,3,4,7,8-HxCDD	1.28e4	1.41	NO	0.707	10.000	33.902	33.92	1.014	1.014	80.470	40.2 <i>21-193</i>	1.83	
21	21 13C-1,2,3,6,7,8-HxCDD	1.75e4	1.21	NO	0.829	10.000	34.012	34.03	1.017	1.018	94.248	47.1 <i>25-163</i>	1.56	
22	22 13C-1,2,3,7,8,9-HxCDD	2.35e4	1.30	NO	0.808	10.000	34.283	34.31	1.025	1.026	129.63	64.8 <i>21-193</i>	1.60	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.86e4	1.01	NO	0.662	10.000	37.747	37.79	1.129	1.130	125.19	62.6 <i>26-166</i>	1.74	
24	24 13C-OCDD	3.40e4	0.90	NO	0.608	10.000	40.769	41.04	1.219	1.227	248.82	62.2 <i>13-198</i>	2.97	
25	25 13C-2,3,7,8-TCDF	1.23e4	0.75	NO	1.07	10.000	25.245	25.25	0.990	0.990	30.867	15.4 <i>22-152</i>	1.99	
26	26 13C-1,2,3,7,8-PeCDF	1.60e4	1.67	NO	0.826	10.000	29.470	29.44	1.156	1.155	51.973	26.0 <i>21-192</i>	1.09	
27	27 13C-2,3,4,7,8-PeCDF	1.37e4	1.67	NO	0.796	10.000	30.370	30.33	1.191	1.189	46.163	23.1 <i>13-328</i>	1.13	
28	28 13C-1,2,3,4,7,8-HxCDF	1.73e4	0.47	NO	1.08	10.000	33.033	33.04	0.988	0.988	71.816	35.8 <i>19-202</i>	1.64	
29	29 13C-1,2,3,6,7,8-HxCDF	2.19e4	0.53	NO	1.12	10.000	33.167	33.15	0.992	0.991	86.733	43.4 <i>21-159</i>	1.57	
30	30 13C-2,3,4,6,7,8-HxCDF	2.39e4	0.51	NO	1.02	10.000	33.738	33.75	1.009	1.010	104.11	52.1 <i>22-176</i>	1.72	
31	31 13C-1,2,3,7,8,9-HxCDF	1.67e4	0.45	NO	0.887	10.000	34.638	34.69	1.036	1.037	83.878	41.9 <i>17-205</i>	1.99	

Dataset: U:\VG7.PRO\Results\200623D2\200623D2_3.qld

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Printed: Wednesday, June 24, 2020 11:43:36 Pacific Daylight Time

Name: 200623D2_3, Date: 23-Jun-2020, Time: 22:55:42, ID: B0F0086-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	2.37e4	0.44	NO	0.811	10.000	36.343	36.52	1.087	1.092	130.38	65.2 <i>21-158</i>	1.45	
33	13C-1,2,3,4,7,8,9-HpCDF	1.43e4	0.44	NO	0.598	10.000	38.349	38.33	1.147	1.146	106.70	53.3 <i>20-186</i>	1.97	
34	13C-OCDF	4.06e4	0.92	NO	0.752	10.000	40.923	41.26	1.224	1.234	240.36	60.1 <i>13-198</i>	1.51	
35	37Cl-2,3,7,8-TCDD	4.02e3			1.24	10.000	26.160	26.07	1.026	1.022	13.983	17.5 <i>31-191</i>	0.269	
36	13C-1,2,3,4-TCDD	4.63e4	0.75	NO	1.00	10.000	25.480	25.50	1.000	1.000	200.00	100	3.70	
37	13C-1,2,3,4-TCDF	7.44e4	0.78	NO	1.00	10.000	24.020	24.03	1.000	1.000	200.00	100	2.13	
38	13C-1,2,3,4,6,9-HxCDF	4.49e4	0.53	NO	1.00	10.000	33.530	33.43	1.000	1.000	200.00	100	1.77	

Dataset: U:\VG7.PRO\Results\200623D2\200623D2_3.qld

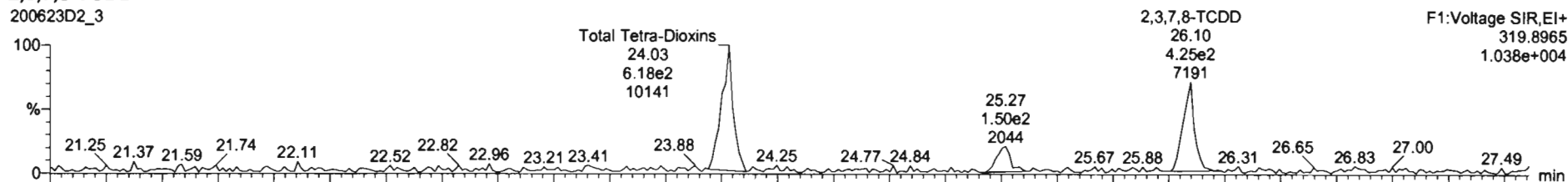
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Printed: Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt.mdb 27 Apr 2020 14:17:24
Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

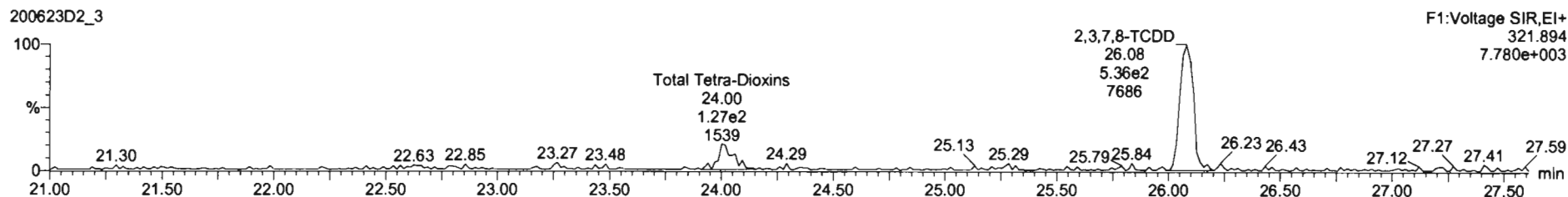
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2,3,7,8-TCDD

200623D2_3

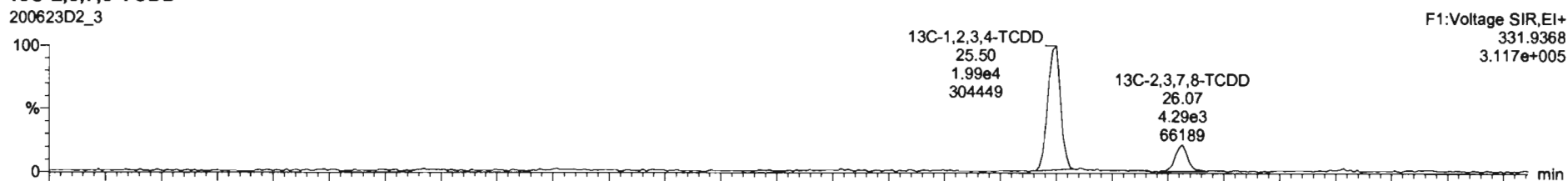


200623D2_3

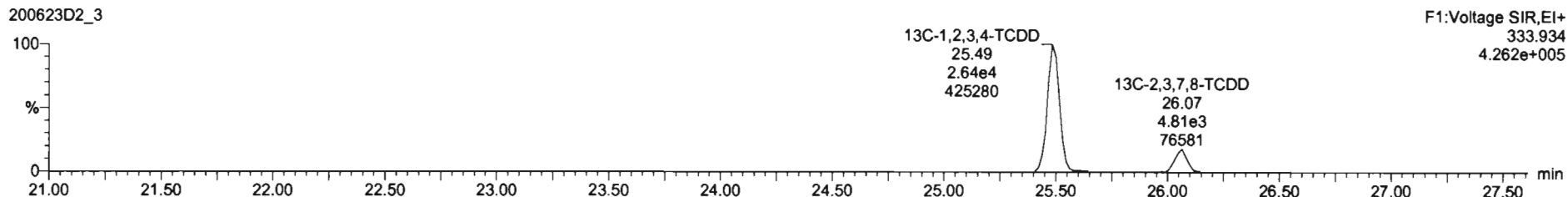


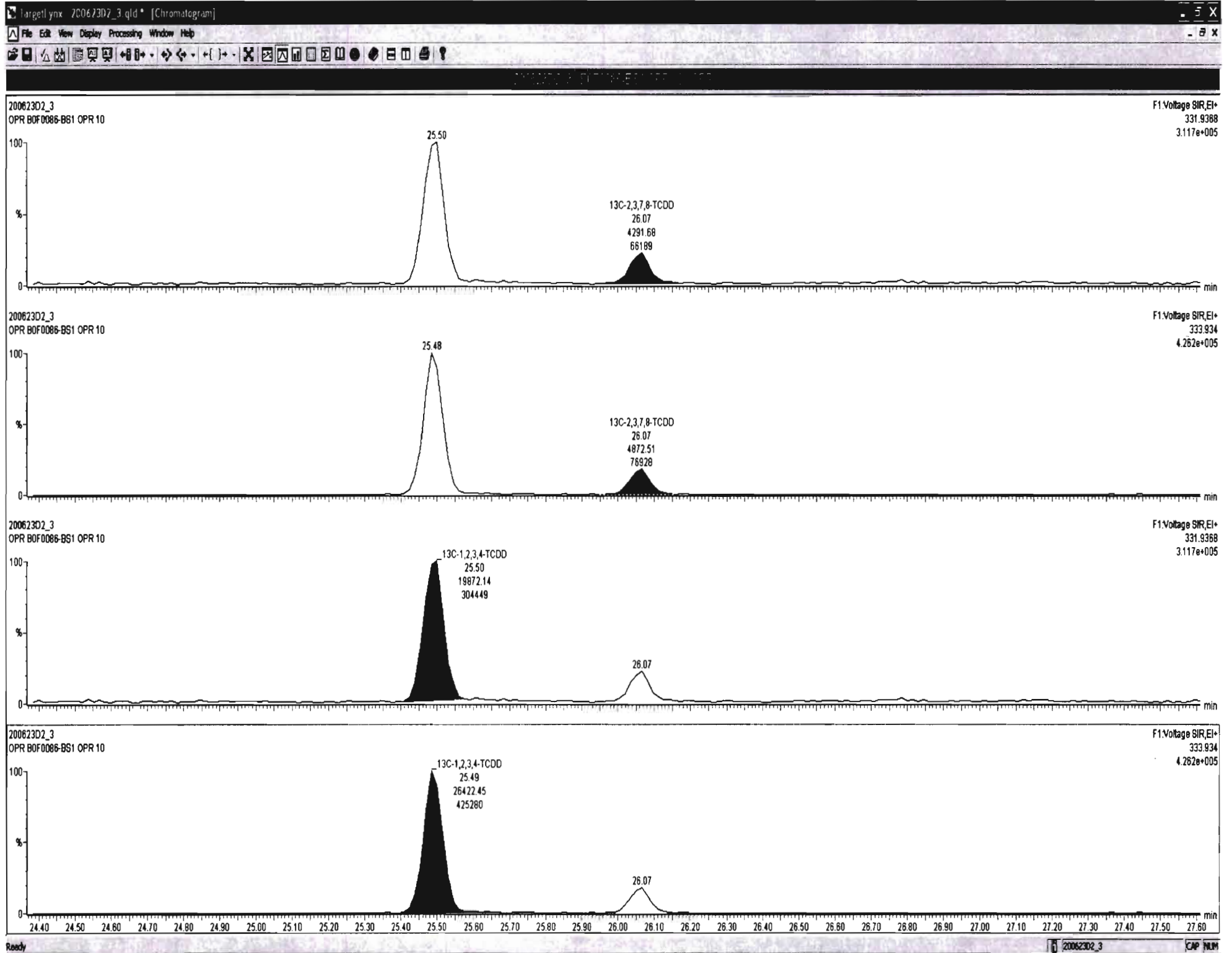
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200623D2_3



200623D2_3



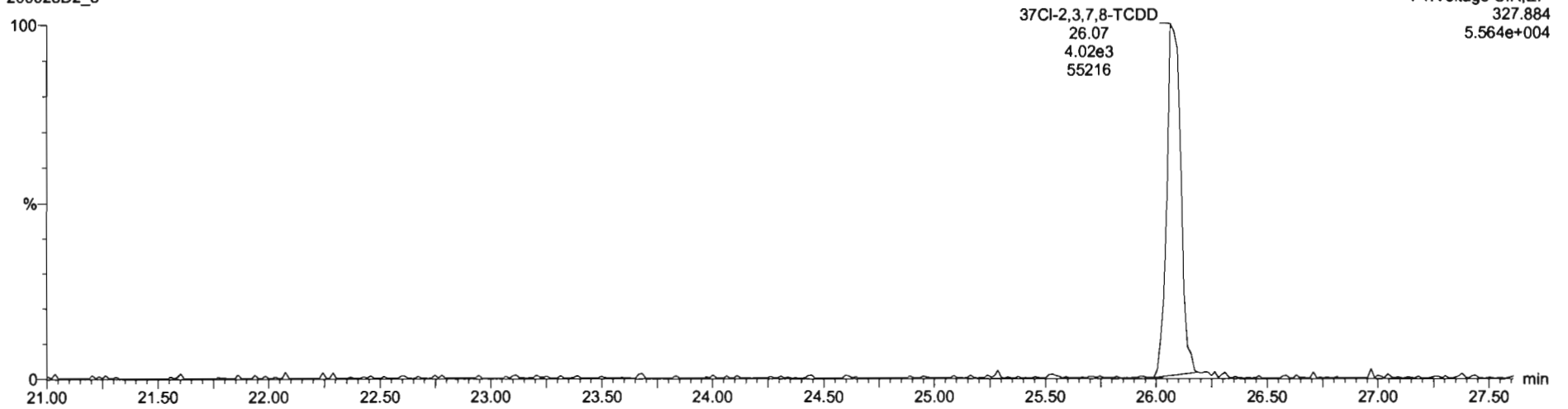


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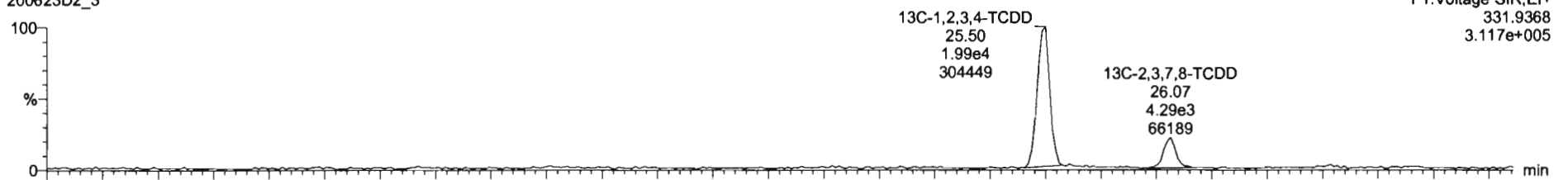
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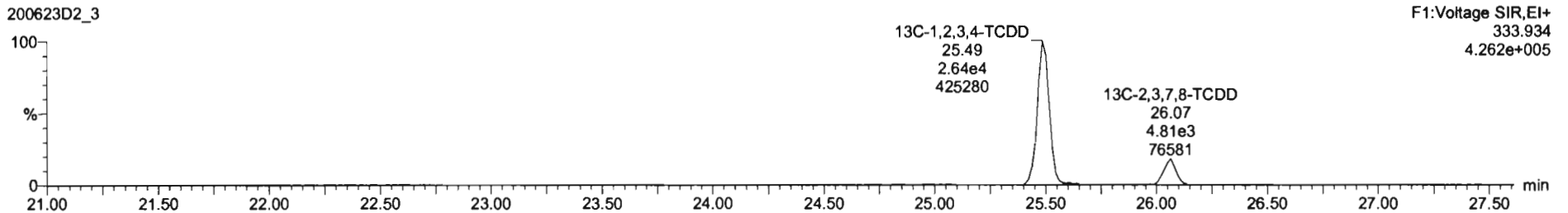
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200623D2_3



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200623D2_3



200623D2_3



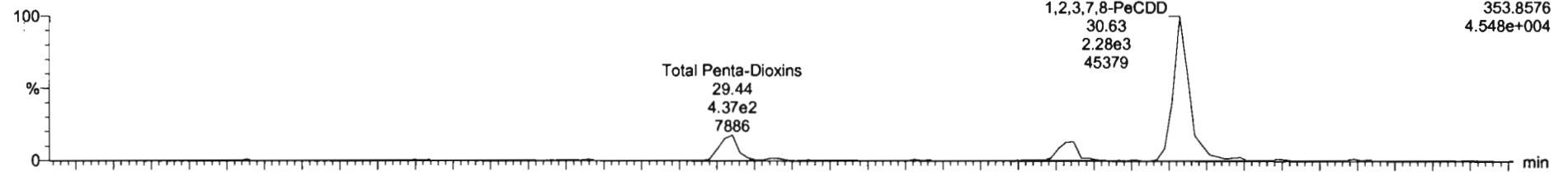
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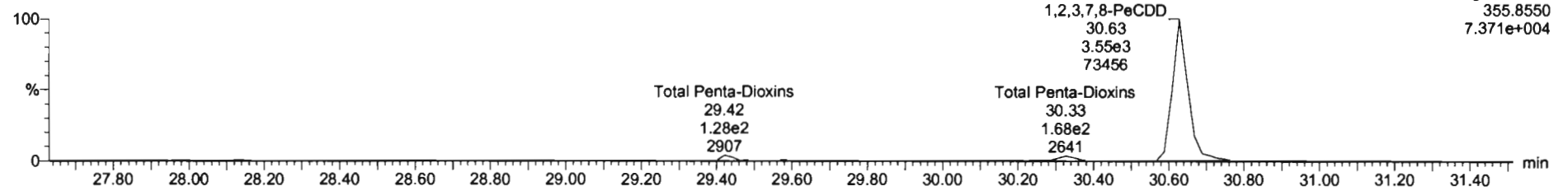
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1,2,3,7,8-PeCDD

200623D2_3

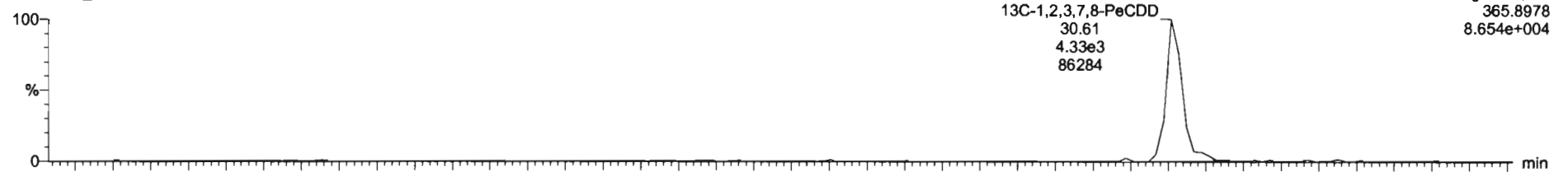


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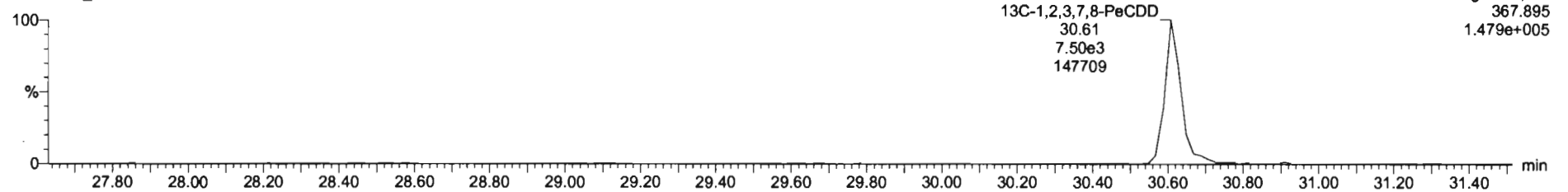


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200623D2_3



200623D2_3



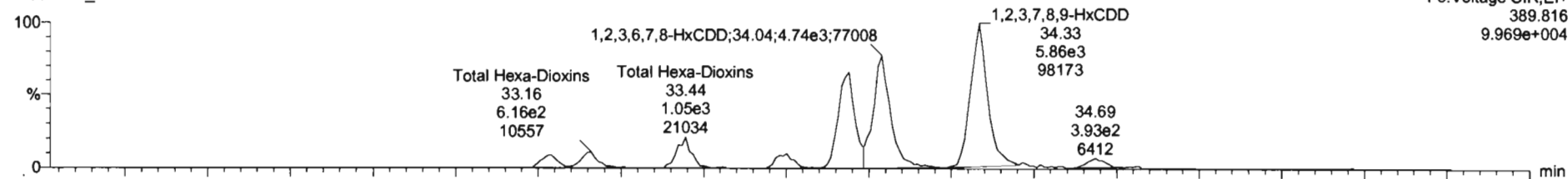
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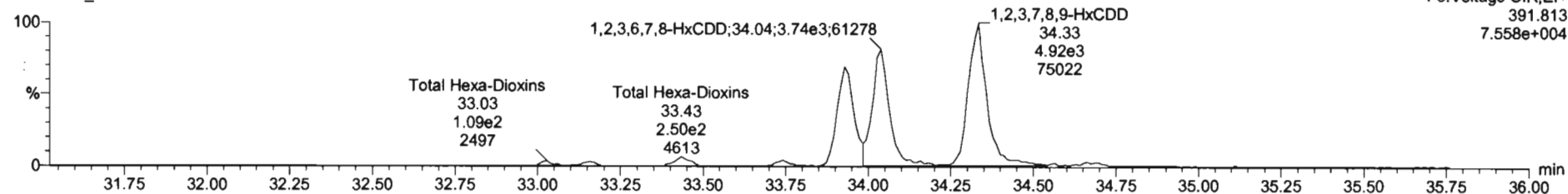
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1,2,3,4,7,8-HxCDD

200623D2_3

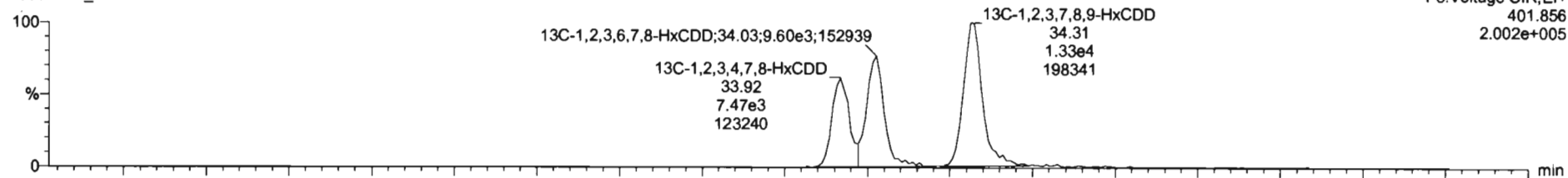


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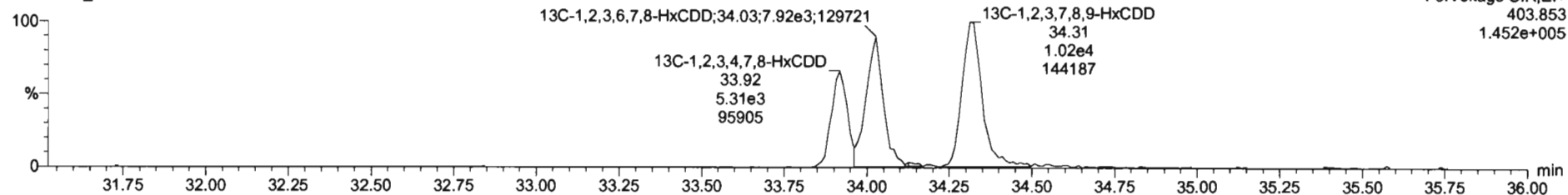


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200623D2_3



200623D2_3



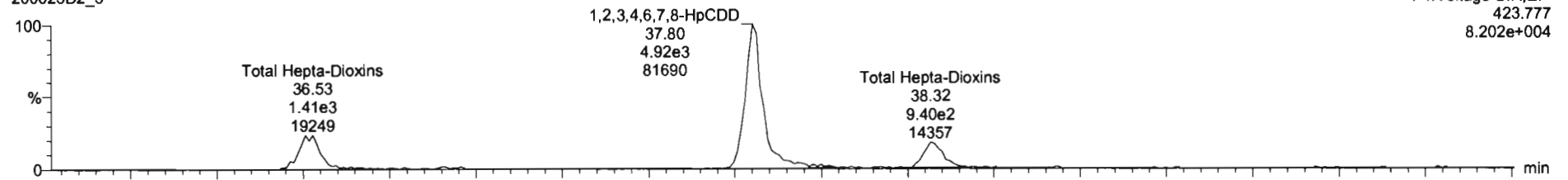
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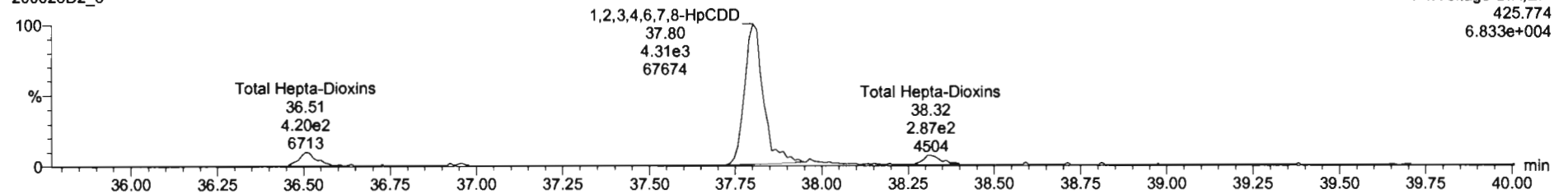
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1,2,3,4,6,7,8-HpCDD

200623D2_3

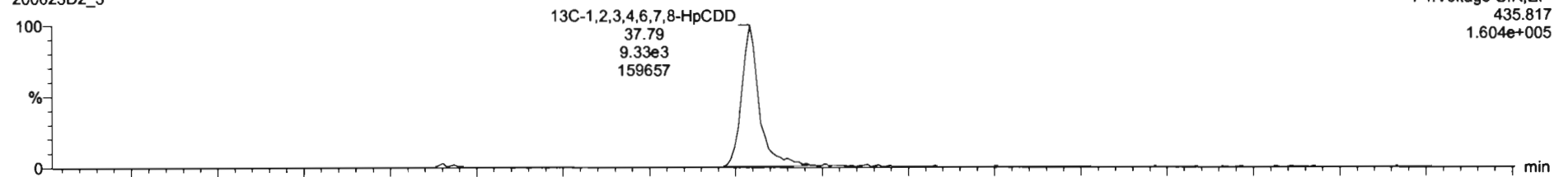


200623D2_3

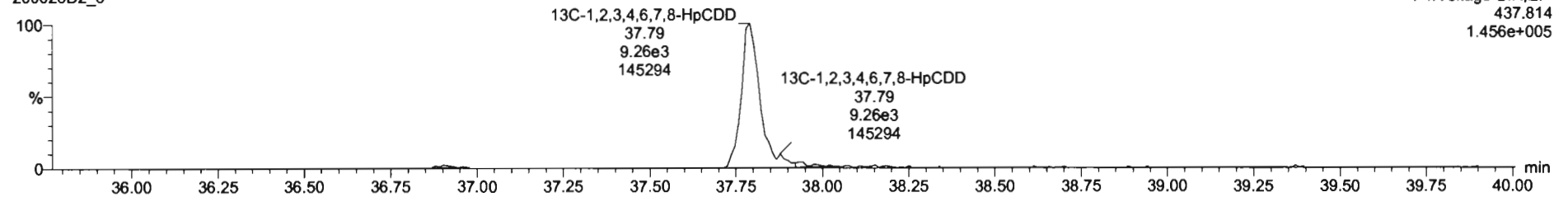


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200623D2_3



200623D2_3



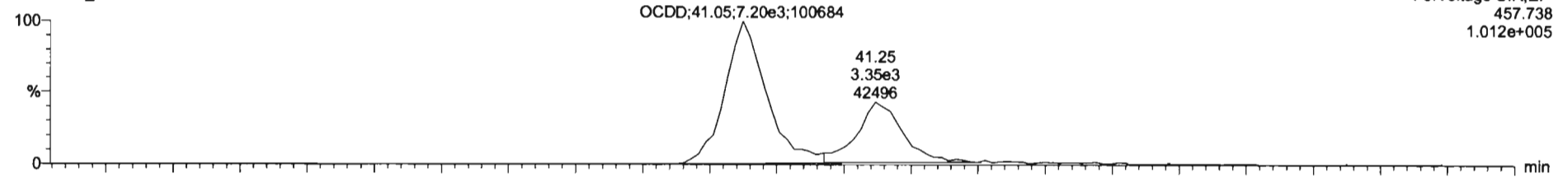
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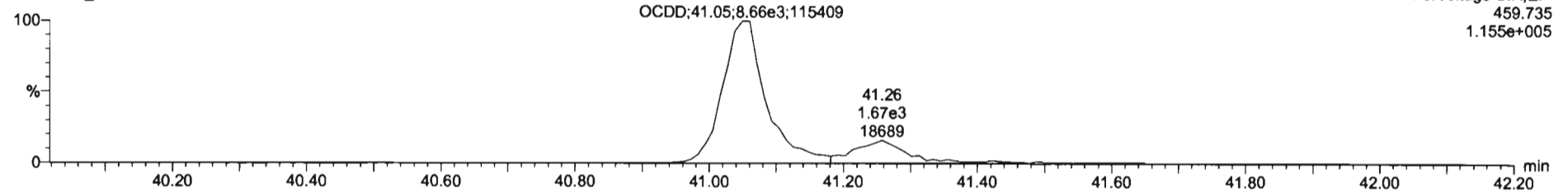
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OCDD

200623D2_3

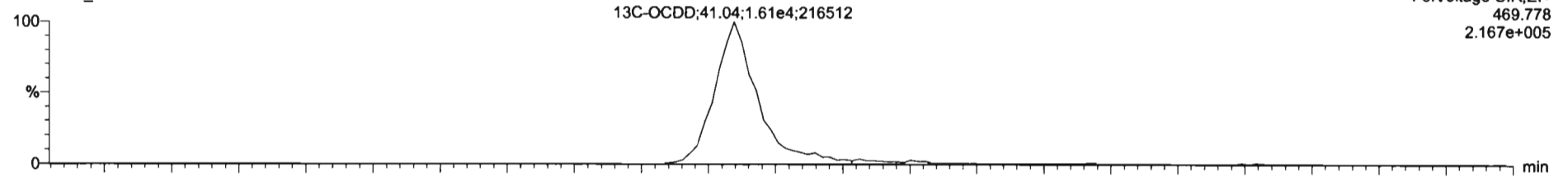


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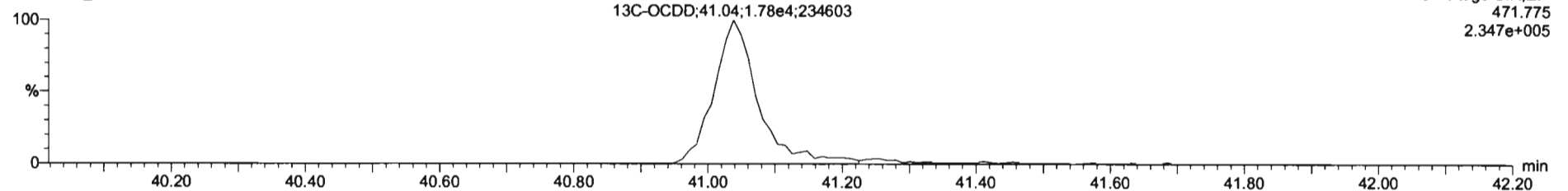


13C-OCDD

200623D2_3



200623D2_3



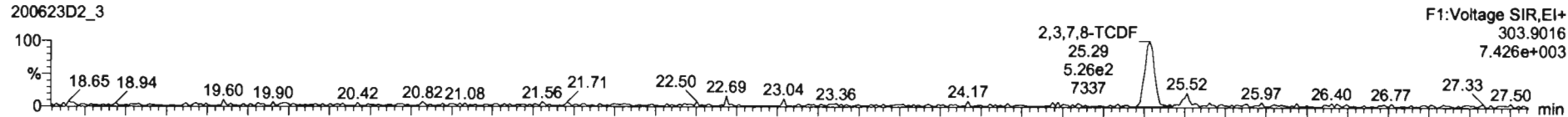
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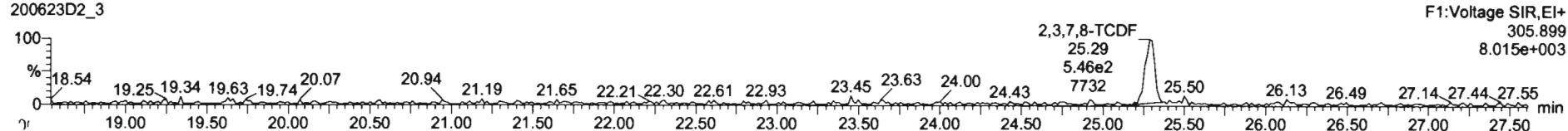
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2,3,7,8-TCDF

200623D2_3

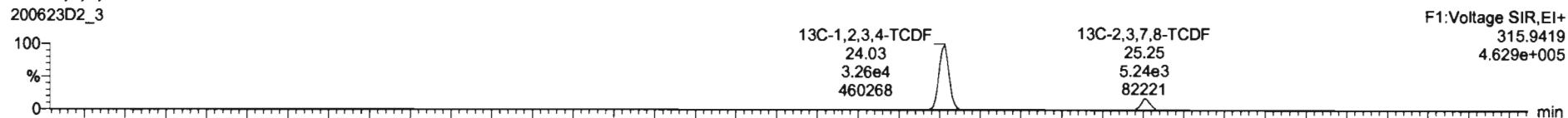


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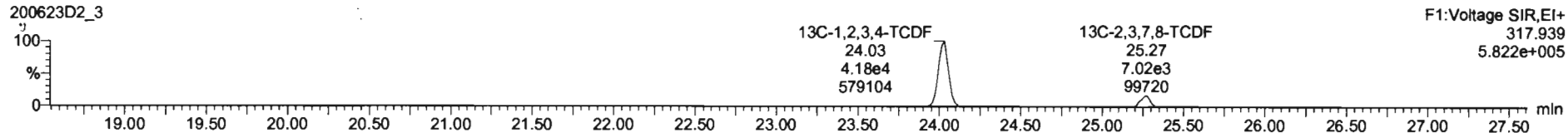


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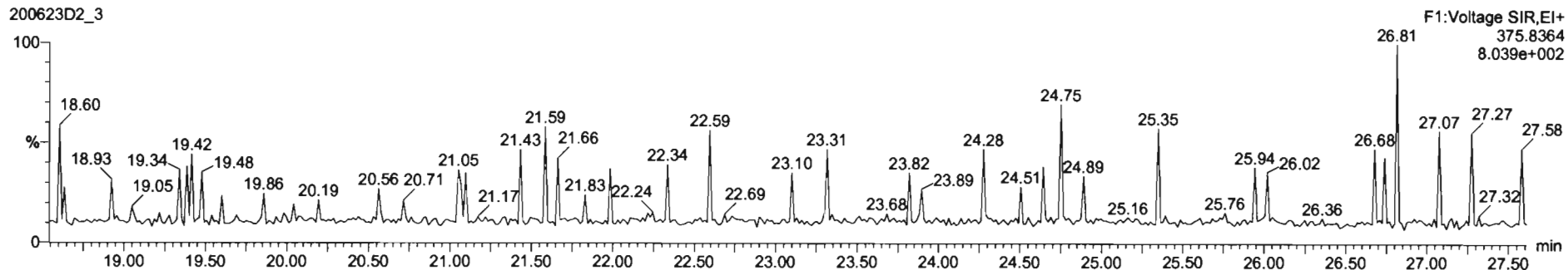


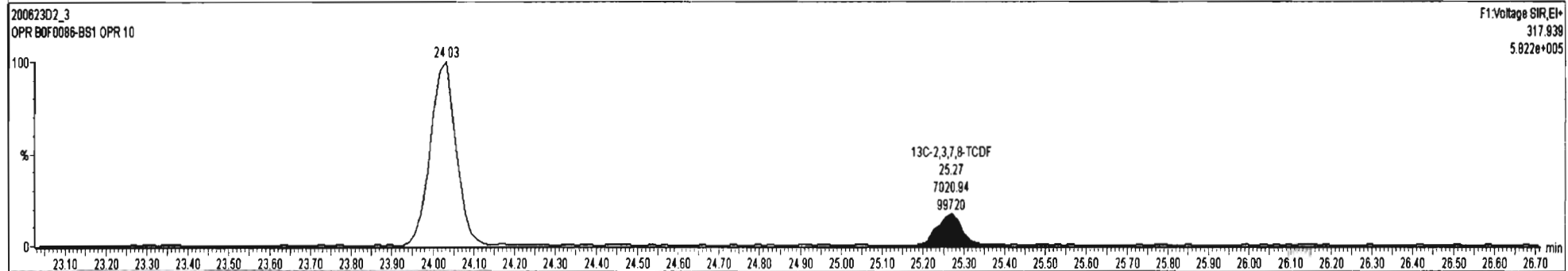
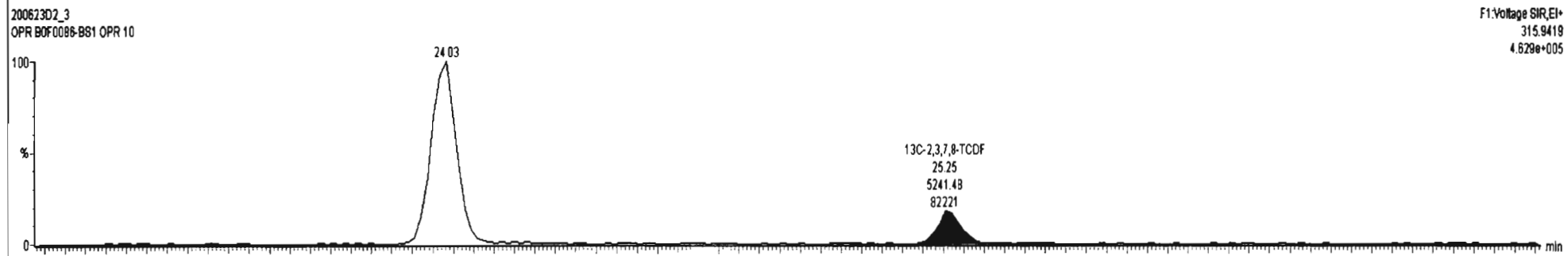
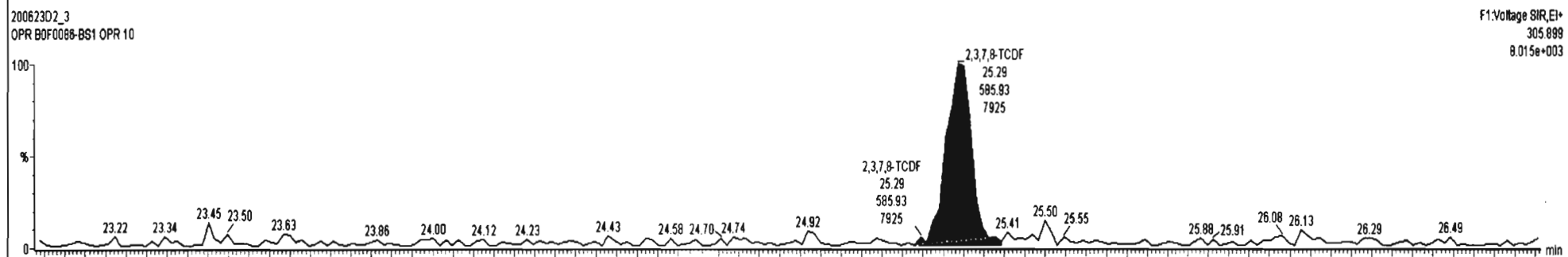
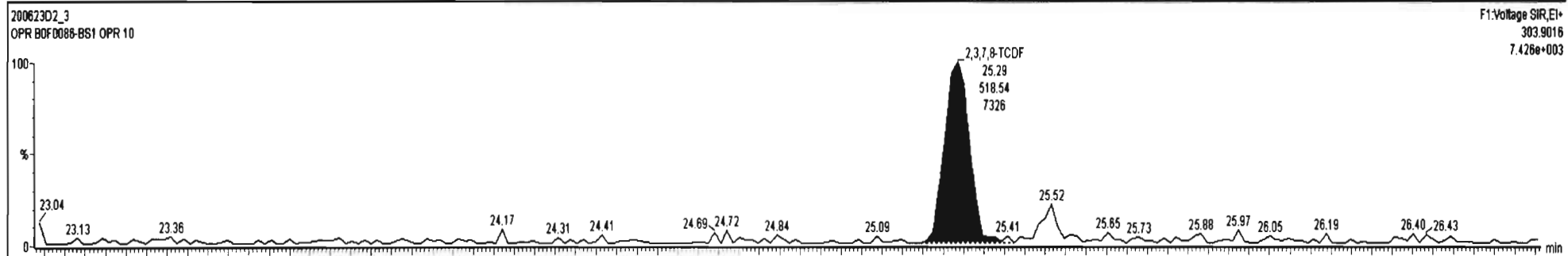
200623D2_3



DPE1

200623D2_3





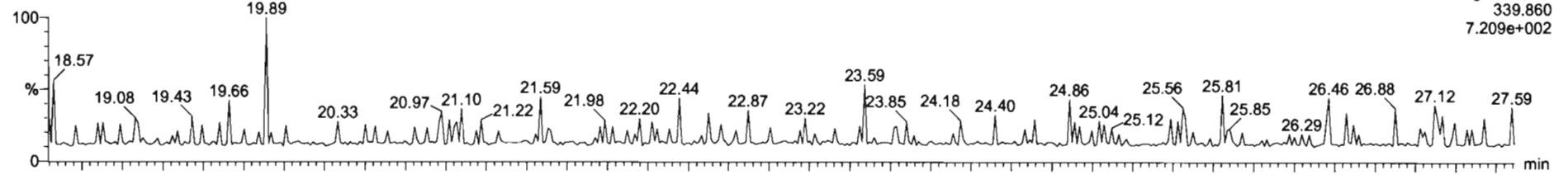
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Printed: Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time

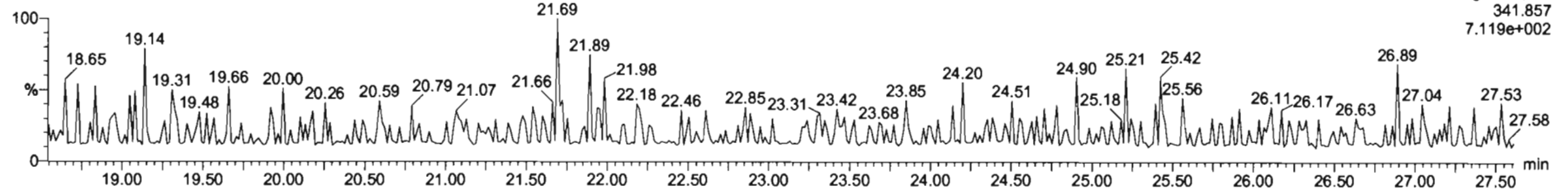
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200623D2_3

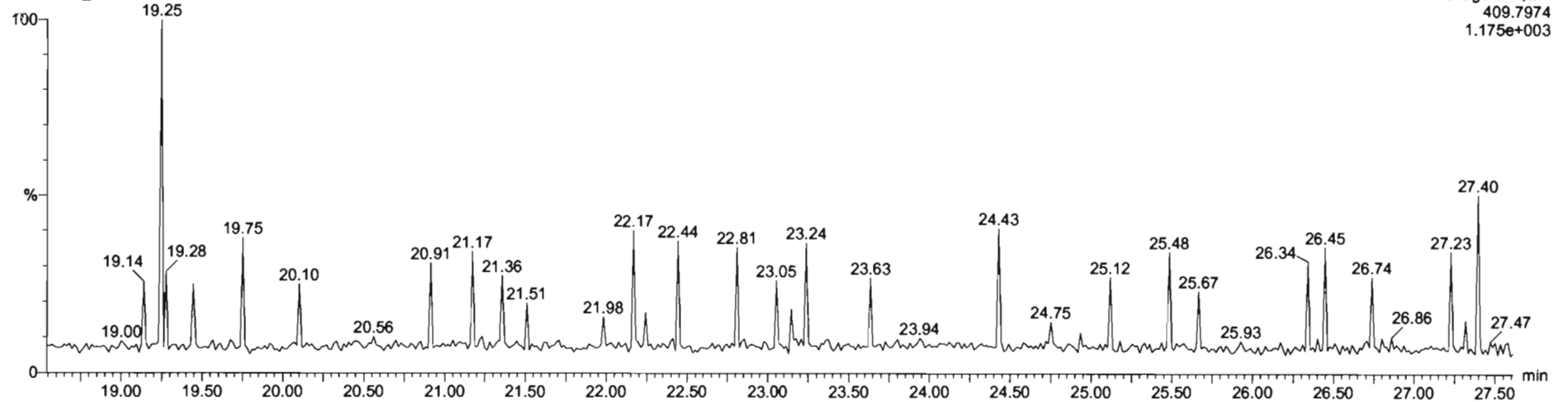


200623D2_3



DPE6

200623D2_3



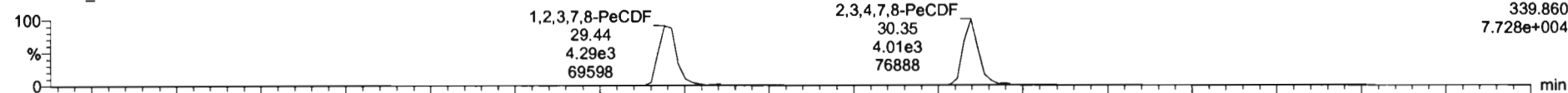
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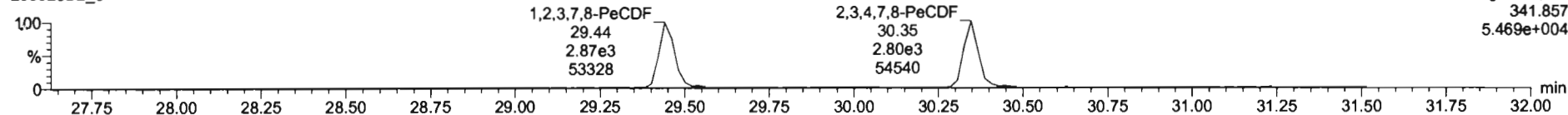
1,2,3,7,8-PeCDF

200623D2_3



F2: Voltage SIR, EI+
339.860
7.728e+004

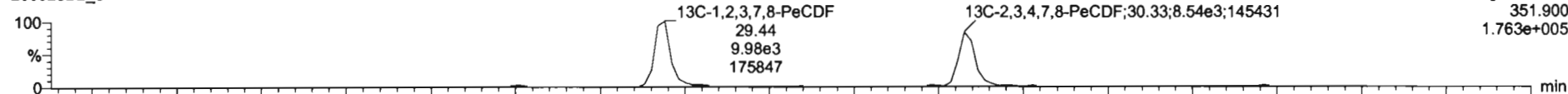
200623D2_3



F2: Voltage SIR, EI+
341.857
5.469e+004

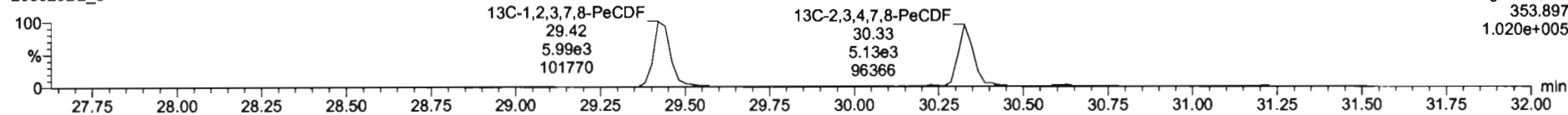
13C-1,2,3,7,8-PeCDF

200623D2_3



F2: Voltage SIR, EI+
351.900
1.763e+005

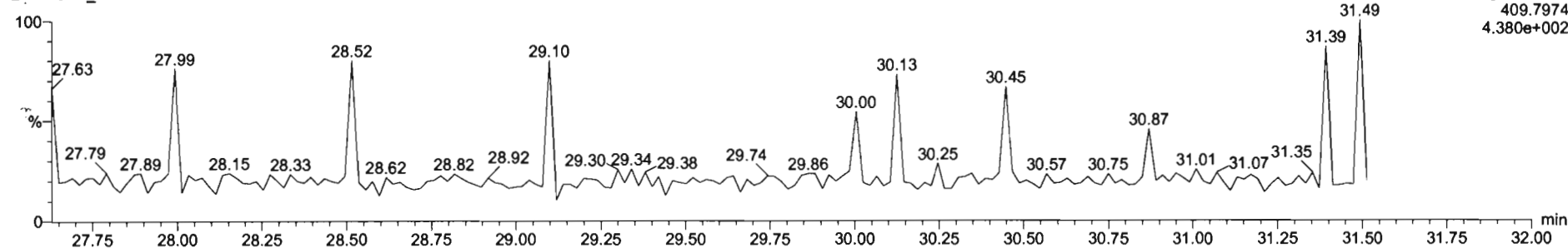
200623D2_3



F2: Voltage SIR, EI+
353.897
1.020e+005

DPE2

200623D2_3



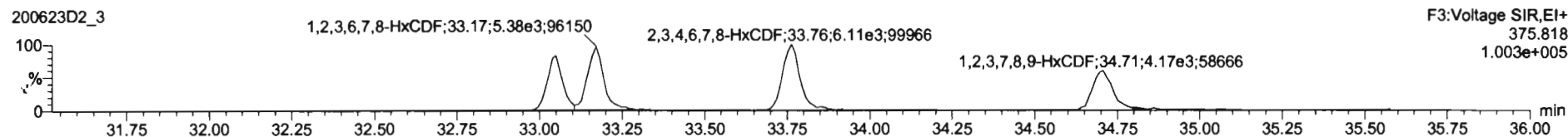
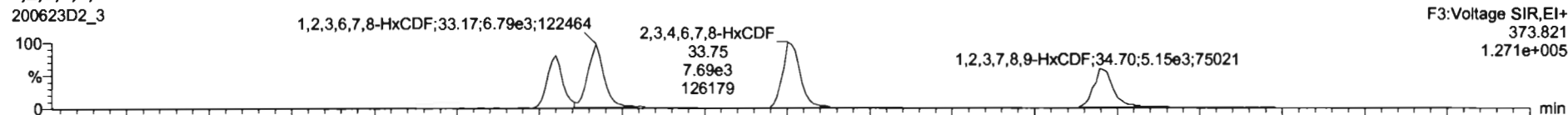
F2: Voltage SIR, EI+
409.7974
4.380e+002

Dataset: U:\VG7.PRO\Results\200623D2\200623D2_3.qld

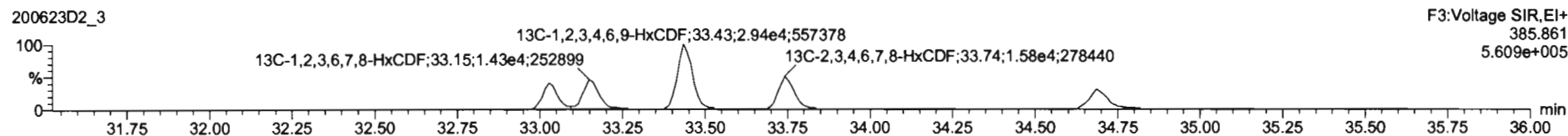
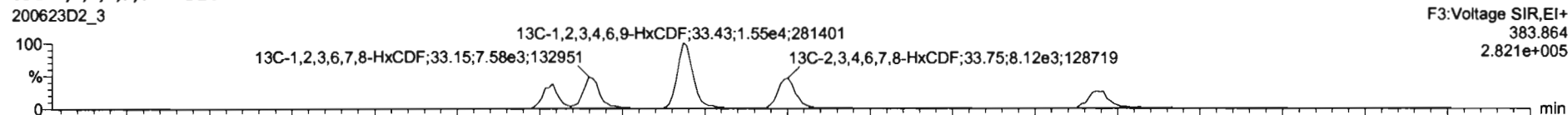
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Printed: Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time

Name: 200623D2_3, Date: 23-Jun-2020, Time: 22:55:42, ID: B0F0086-BS1 OPR 10, Description: OPR

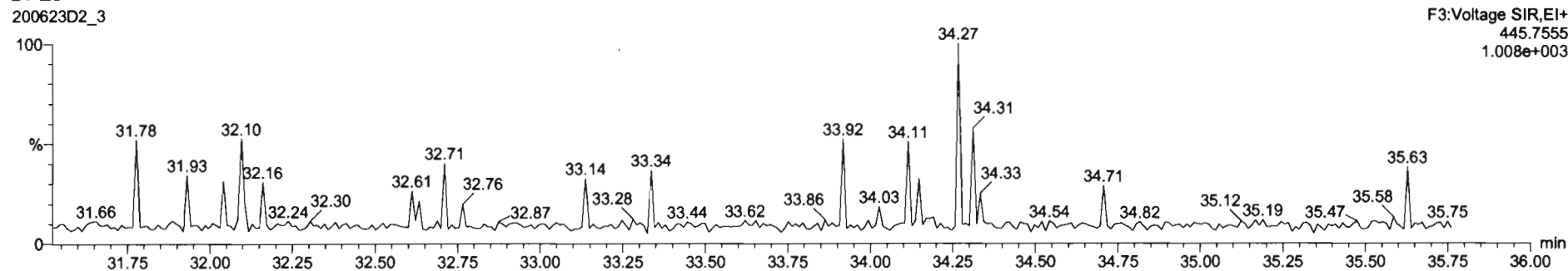
1,2,3,4,7,8-HxCDF



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



DPE3



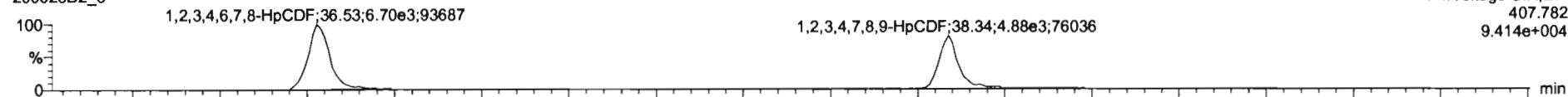
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Printed: Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time

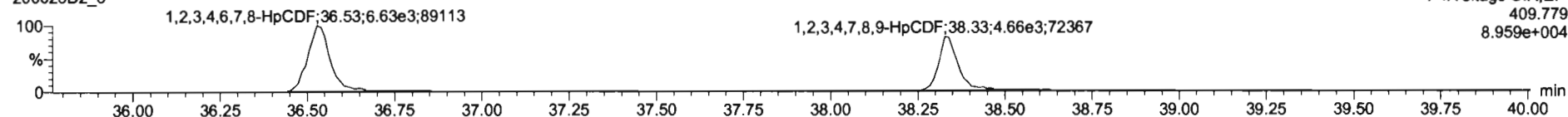
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1,2,3,4,6,7,8-HpCDF

200623D2_3

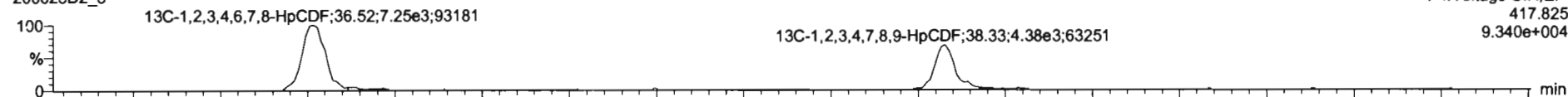


200623D2_3

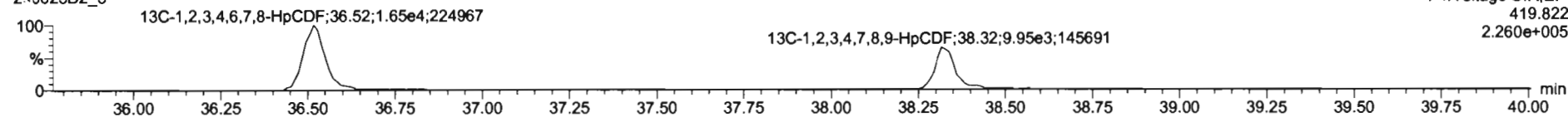


13C-1,2,3,4,6,7,8-HpCDF

200623D2_3

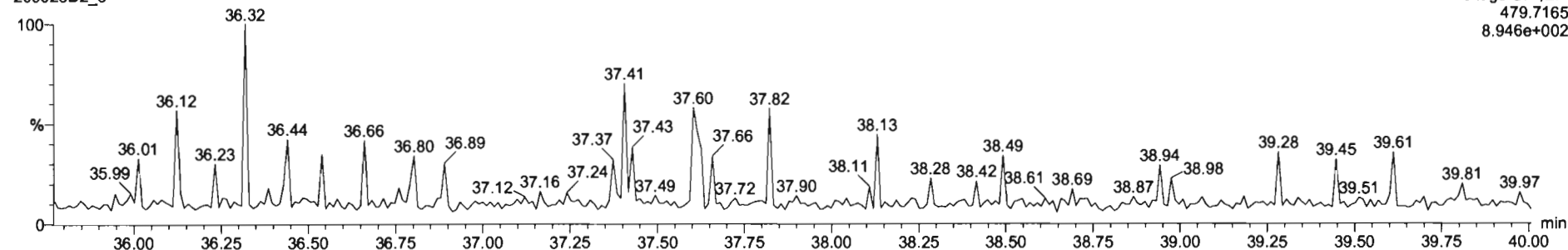


200623D2_3



DPE4

200623D2_3



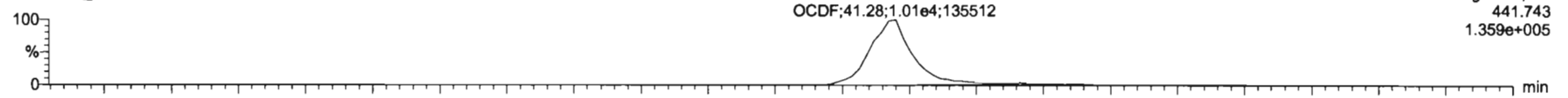
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Printed: Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time

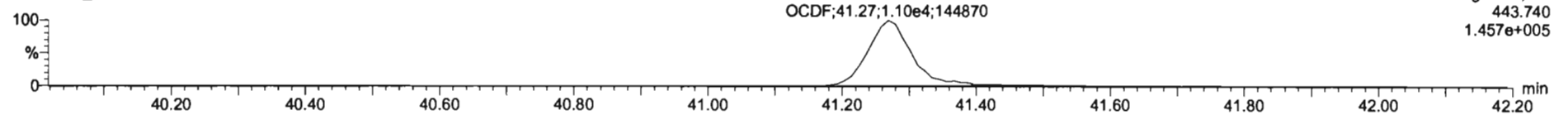
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OCDF

200623D2_3

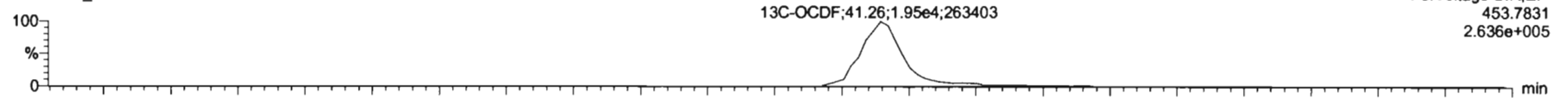


200623D2_3

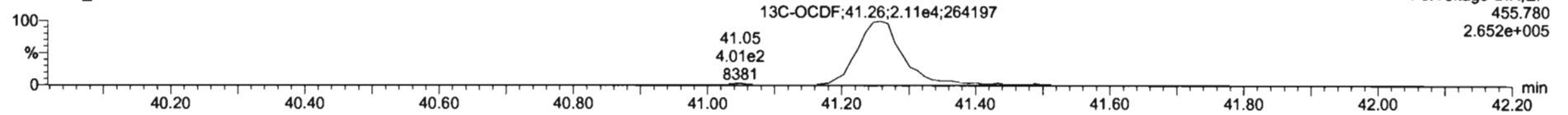


13C-OCDF

200623D2_3

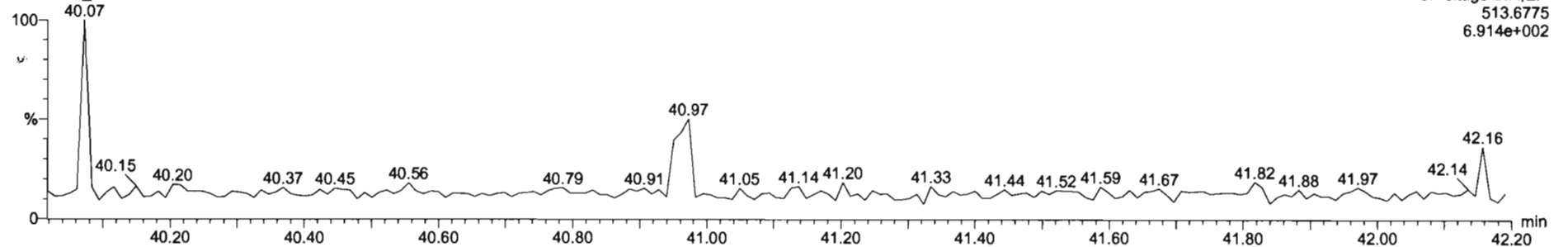


200623D2_3



DPE5

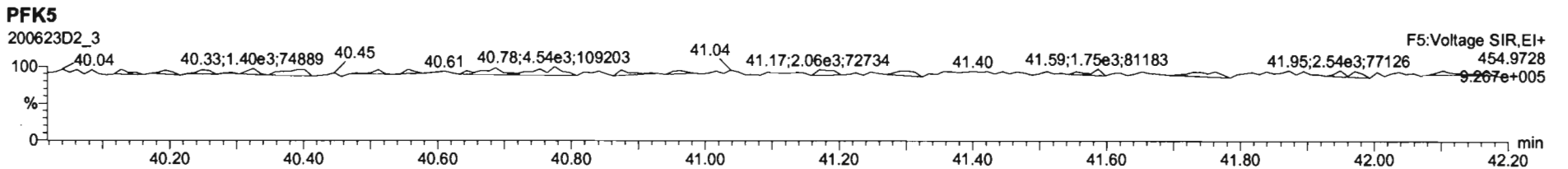
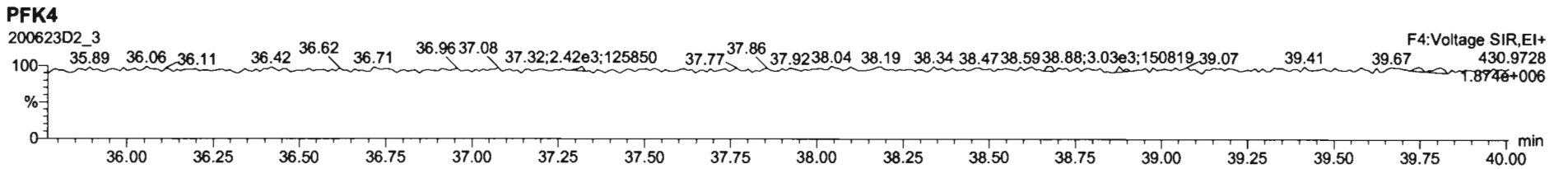
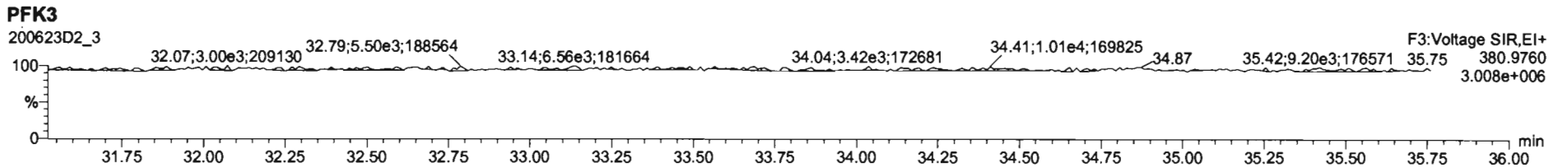
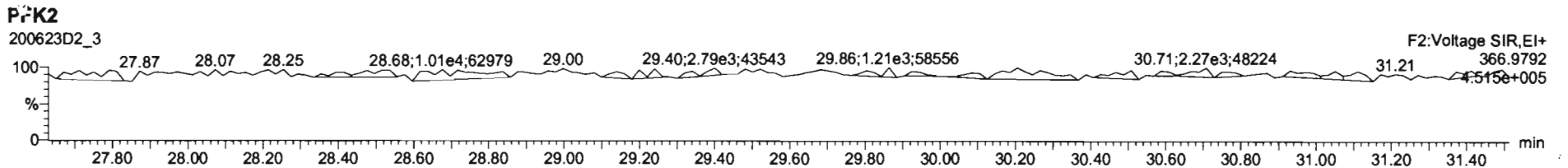
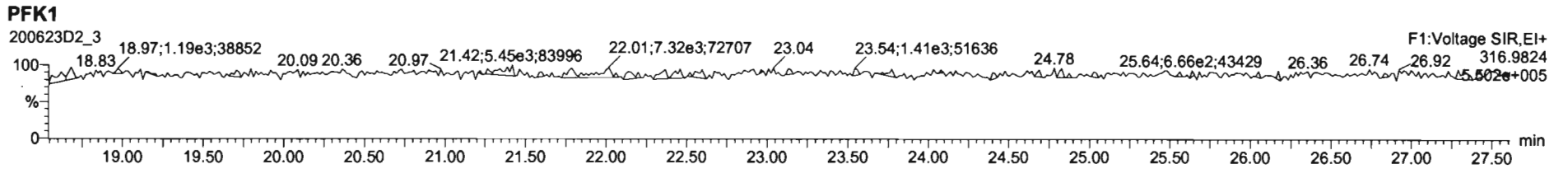
200623D2_3



Dataset: U:\VG7.PRO\Results\200623D2\200623D2_3.qld

Last Altered: Wednesday, June 24, 2020 10:38:15 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time

Name: 200623D2_3, Date: 23-Jun-2020, Time: 22:55:42, ID: B0F0086-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200707R2\200707R2-14.qld

Last Altered: Wednesday, July 08, 2020 9:36:29 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 9:44:07 AM Pacific Daylight Time

GPB 07/08/2020

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21

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

C7 07/07/2020

Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

	Resp	RA	n/y	RRF	w/wcf								
1	2,3,7,8-TCDD		NO	0.888	10.024	26.501		1.001				0.260	
2	1,2,3,7,8-PeCDD		NO	0.908	10.024	31.488		1.001				0.169	
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.024	34.867		1.000				0.235	
4	1,2,3,6,7,8-HxCDD	2.64e3	1.18	NO	0.892	10.024	34.964	34.97	1.000	1.000	1.7219	0.206	1.72
5	1,2,3,7,8,9-HxCDD	9.06e2	1.36	NO	0.887	10.024	35.286	35.26	1.001	1.000	0.48473	0.186	0.485
6	1,2,3,4,6,7,8-HpCDD	2.01e5	1.01	NO	0.864	10.024	38.821	38.82	1.000	1.000	143.18	0.585	143
7	OCDD	1.15e6	0.86	NO	0.914	10.024	41.823	41.83	1.000	1.000	863.30	0.610	863
8	2,3,7,8-TCDF	4.45e2	1.09	YES	0.751	10.024	25.602	25.62	1.001	1.002	0.64677	0.281	0.547
9	1,2,3,7,8-PeCDF	7.12e2	1.50	NO	0.893	10.024	30.205	30.18	1.001	1.000	0.60560	0.142	0.606
10	2,3,4,7,8-PeCDF	2.94e2	1.41	NO	0.935	10.024	31.180	31.18	1.001	1.000	0.27576	0.146	0.276
11	1,2,3,4,7,8-HxCDF	1.22e3	1.16	NO	0.884	10.024	33.973	33.99	1.000	1.001	1.0131	0.0927	1.01
12	1,2,3,6,7,8-HxCDF	3.89e2	1.31	NO	0.889	10.024	34.111	34.13	1.000	1.001	0.24717	0.0763	0.247
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.024	34.708		1.001			0.0715	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.024	35.634		1.001			0.117	
15	1,2,3,4,6,7,8-HpCDF	4.77e3	1.01	NO	0.873	10.024	37.429	37.41	1.001	1.001	3.5562	0.152	3.56
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.024	39.352		1.000			0.194	
17	OCDF	2.34e4	0.83	NO	0.806	10.024	42.004	42.01	1.000	1.000	19.842	0.161	19.8
18	13C-2,3,7,8-TCDD	1.79e5	0.77	NO	1.16	10.024	26.463	26.47	1.025	1.026	37.931	19.0	0.146
19	13C-1,2,3,7,8-PeCDD	2.43e5	0.62	NO	0.849	10.024	31.475	31.47	1.219	1.219	70.065	35.1	0.186
20	13C-1,2,3,4,7,8-HxCDD	2.39e5	1.27	NO	0.779	10.024	34.841	34.86	1.014	1.014	100.81	50.5	0.332
21	13C-1,2,3,6,7,8-HxCDD	3.43e5	1.30	NO	1.02	10.024	34.941	34.96	1.017	1.017	110.53	55.4	0.255
22	13C-1,2,3,7,8,9-HxCDD	4.21e5	1.25	NO	0.903	10.024	35.250	35.25	1.026	1.026	152.85	76.6	0.287
23	13C-1,2,3,4,6,7,8-HpCDD	3.24e5	1.03	NO	0.689	10.024	38.797	38.81	1.129	1.129	154.41	77.4	0.503
24	13C-OCDD	5.80e5	0.90	NO	0.652	10.024	41.804	41.82	1.216	1.217	291.55	73.1	0.381
25	13C-2,3,7,8-TCDF	1.83e5	0.76	NO	1.06	10.024	25.570	25.57	0.991	0.991	31.900	16.0	0.197
26	13C-1,2,3,7,8-PeCDF	2.63e5	1.58	NO	0.838	10.024	30.193	30.18	1.170	1.169	57.930	29.0	0.379
27	13C-2,3,4,7,8-PeCDF	2.28e5	1.70	NO	0.817	10.024	31.166	31.16	1.207	1.207	51.469	25.8	0.389
28	13C-1,2,3,4,7,8-HxCDF	2.72e5	0.49	NO	1.01	10.024	33.975	33.97	0.989	0.989	88.397	44.3	0.516
29	13C-1,2,3,6,7,8-HxCDF	3.53e5	0.49	NO	1.17	10.024	34.092	34.10	0.992	0.992	99.315	49.8	0.446
30	13C-2,3,4,6,7,8-HxCDF	3.61e5	0.51	NO	1.02	10.024	34.669	34.69	1.009	1.009	115.93	58.1	0.509
31	13C-1,2,3,7,8,9-HxCDF	2.90e5	0.47	NO	0.860	10.024	35.601	35.61	1.036	1.036	110.71	55.5	0.605

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-14.qld

Last Altered: Wednesday, July 08, 2020 9:36:29 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 9:44:07 AM Pacific Daylight Time

Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

	Resp	RA	ny	RRF	w/wbl	Prod	RFI	RFI	RFI	RFI	RFI	RFI	RFI
32	13C-1,2,3,4,6,7,8-HpCDF	3.07e5	0.43	NO	0.774	10.024	37.384	37.39	1.088	1.088	129.86	65.1	0.373
33	13C-1,2,3,4,7,8,9-HpCDF	1.88e5	0.41	NO	0.521	10.024	39.357	39.35	1.145	1.145	118.55	59.4	0.554
34	13C-OCDF	5.84e5	0.88	NO	0.746	10.024	41.993	42.00	1.222	1.222	256.94	64.4	0.316
35	37Cl-2,3,7,8-TCDD	6.36e4			1.04	10.024	26.481	26.50	1.026	1.027	15.013	18.8	0.0461
36	13C-1,2,3,4-TCDD	8.16e5	0.78	NO	1.00	10.024	25.740	25.81	1.000	1.000	199.53	100	0.169
37	13C-1,2,3,4-TCDF	1.08e6	0.75	NO	1.00	10.024	24.030	24.10	1.000	1.000	199.53	100	0.209
38	13C-1,2,3,4,6,9-HxCDF	6.08e5	0.50	NO	1.00	10.024	34.290	34.37	1.000	1.000	199.53	100	0.520
39	Total Tetra-Dioxins				0.888	10.024	24.620		0.000				0.147
40	Total Penta-Dioxins				0.908	10.024	29.960		0.000		0.45876		0.0708 0.635
41	Total Hexa-Dioxins				0.892	10.024	33.635		0.000		26.677		0.213 26.7
42	Total Hepta-Dioxins				0.864	10.024	38.800		0.000		325.63		0.585 326
43	Total Tetra-Furans				0.751	10.024	23.610		0.000		0.61967		0.261 1.17
44	1st Func. Penta-Furans				0.893	10.024	27.040		0.000		0.63853		0.105 0.639
45	Total Penta-Furans				0.893	10.024	29.275		0.000		1.4869		0.147 1.49
46	Total Hexa-Furans				0.934	10.024	33.555		0.000		3.6554		0.0839 3.66
47	Total Hepta-Furans				0.873	10.024	37.835		0.000		17.782		0.180 17.8

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-14.qld

Last Altered: Wednesday, July 08, 2020 9:36:29 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 9:44:07 AM Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21

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

Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Area	Area
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Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Area	Area	
Total Penta-Dioxins	29.25	3.029e3	3.530e3	1.913e2	3.164e2	0.60	NO	5.077e2	0.45876	0.45876	0.0708
Total Penta-Dioxins	29.73	1.481e3	3.158e3	1.158e2	1.194e2	0.97	YES	0.000e0	0.00000	0.17582	0.0708

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Area	Area	
Total Hexa-Dioxins	33.35	2.023e5	1.693e5	1.065e4	8.451e3	1.26	NO	1.911e4	12.781	12.781	0.213
Total Hexa-Dioxins	33.91	1.529e4	1.317e4	8.540e2	6.790e2	1.26	NO	1.533e3	1.0256	1.0256	0.213
Total Hexa-Dioxins	34.19	1.038e5	8.360e4	7.532e3	5.896e3	1.28	NO	1.343e4	8.9826	8.9826	0.213
Total Hexa-Dioxins	34.28	1.518e4	1.686e4	8.338e2	7.350e2	1.13	NO	1.569e3	1.0495	1.0495	0.213
1,2,3,6,7,8-HxCDD	34.97	2.039e4	2.123e4	1.427e3	1.211e3	1.18	NO	2.639e3	1.7219	1.7219	0.206
Total Hexa-Dioxins	35.17	1.415e4	9.584e3	4.950e2	4.490e2	1.10	NO	9.440e2	0.63149	0.63149	0.213
1,2,3,7,8,9-HxCDD	35.26	7.881e3	8.513e3	5.218e2	3.847e2	1.36	NO	9.065e2	0.48473	0.48473	0.186

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Area	Area	
Total Hepta-Dioxins	37.81	1.749e6	1.773e6	1.277e5	1.286e5	0.99	NO	2.563e5	182.45	182.45	0.585
1,2,3,4,6,7,8-HpCDD	38.82	1.484e6	1.441e6	1.012e5	9.993e4	1.01	NO	2.011e5	143.18	143.18	0.585

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Area	Area	
Total Tetra-Furans	24.64	2.270e3	2.455e3	1.952e2	2.316e2	0.84	NO	4.267e2	0.61967	0.61967	0.261
2,3,7,8-TCDF	25.62	2.990e3	2.867e3	2.327e2	2.127e2	1.09	YES	4.454e2	0.00000	0.54676	0.261

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-14.qld

Last Altered: Wednesday, July 08, 2020 9:36:29 AM Pacific Daylight Time

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Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conv	EMPC	DU
1st Func. Penta-Furans	27.59	5.910e3	4.336e3	4.355e2	2.650e2	1.64	NO	7.005e2	0.63853	0.63853	0.105

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conv	EMPC	DU
Total Penta-Furans	29.21	4.394e3	2.559e3	2.604e2	1.942e2	1.34	NO	4.546e2	0.41434	0.41434	0.147
1,2,3,7,8-PeCDF	30.18	6.761e3	5.580e3	4.270e2	2.853e2	1.50	NO	7.122e2	0.60560	0.60560	0.142
2,3,4,7,8-PeCDF	31.18	5.170e3	2.497e3	1.720e2	1.221e2	1.41	NO	2.941e2	0.27576	0.27576	0.146
Total Penta-Furans	31.21	3.330e3	2.091e3	1.329e2	7.683e1	1.73	NO	2.098e2	0.19121	0.19121	0.147

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conv	EMPC	DU
Total Hexa-Furans	32.81	3.251e3	2.006e3	1.342e2	1.071e2	1.25	NO	2.413e2	0.16155	0.16155	0.0839
Total Hexa-Furans	32.98	1.088e4	8.479e3	5.617e2	3.944e2	1.42	NO	9.561e2	0.64007	0.64007	0.0839
Total Hexa-Furans	33.53	2.445e4	2.264e4	1.245e3	1.135e3	1.10	NO	2.380e3	1.5935	1.5935	0.0839
1,2,3,4,7,8-HxCDF	33.99	1.092e4	1.014e4	6.548e2	5.648e2	1.16	NO	1.220e3	1.0131	1.0131	0.0927
1,2,3,6,7,8-HxCDF	34.13	3.548e3	3.349e3	2.209e2	1.684e2	1.31	NO	3.893e2	0.24717	0.24717	0.0763

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conv	EMPC	DU
1,2,3,4,6,7,8-HpCDF	37.41	3.608e4	3.320e4	2.398e3	2.376e3	1.01	NO	4.774e3	3.5562	3.5562	0.152
Total Hepta-Furans	38.02	1.061e5	1.183e5	7.616e3	7.795e3	0.98	NO	1.541e4	14.225	14.225	0.180

Dataset: Untitled

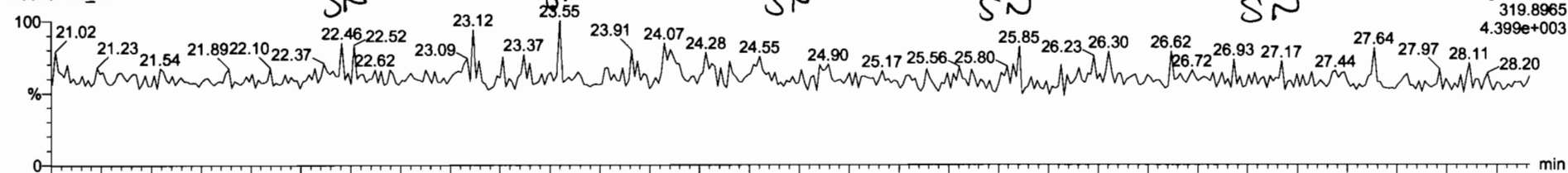
Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

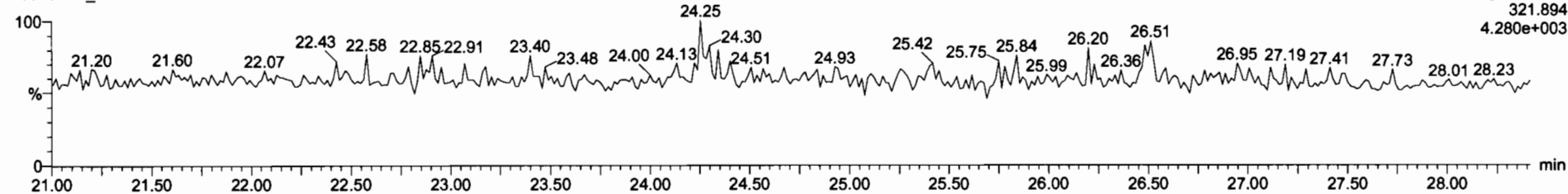
Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

2,3,7,8-TCDD

200707R2_14

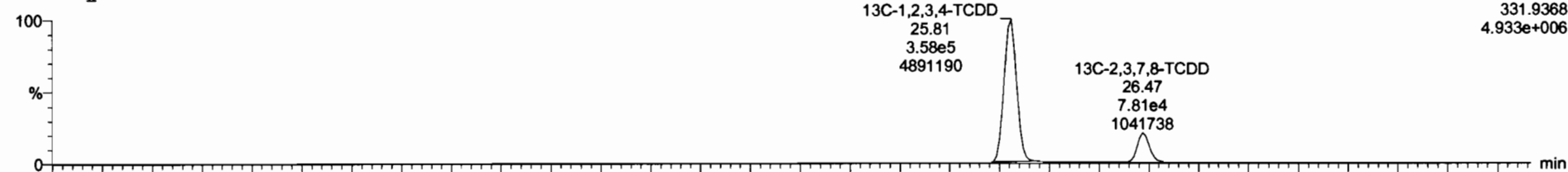


200707R2_14

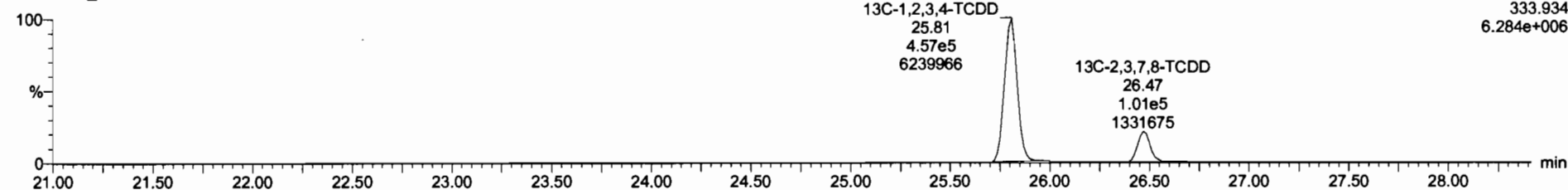


13C-2,3,7,8-TCDD

200707R2_14



200707R2_14



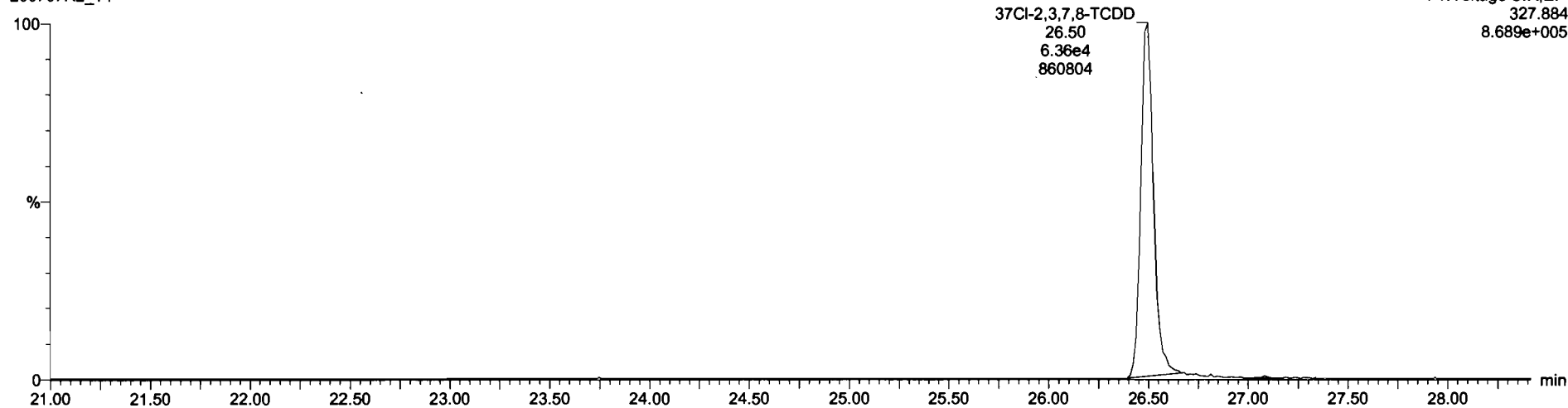
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Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

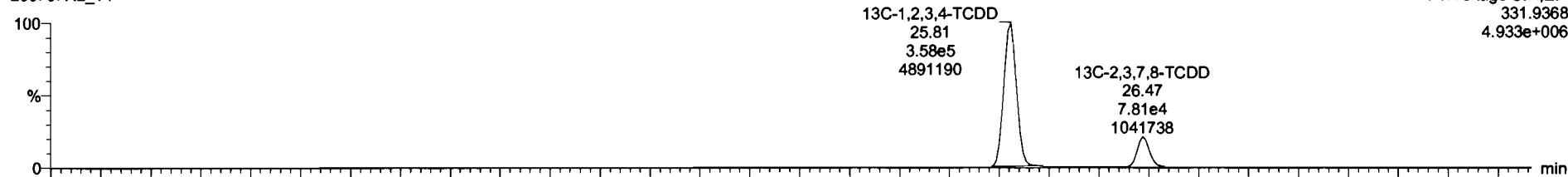
37Cl-2,3,7,8-TCDD

200707R2_14

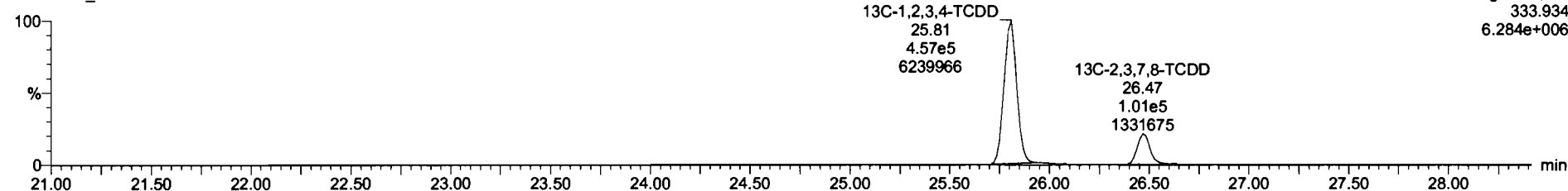


13C-1,2,3,4-TCDD

200707R2_14



200707R2_14



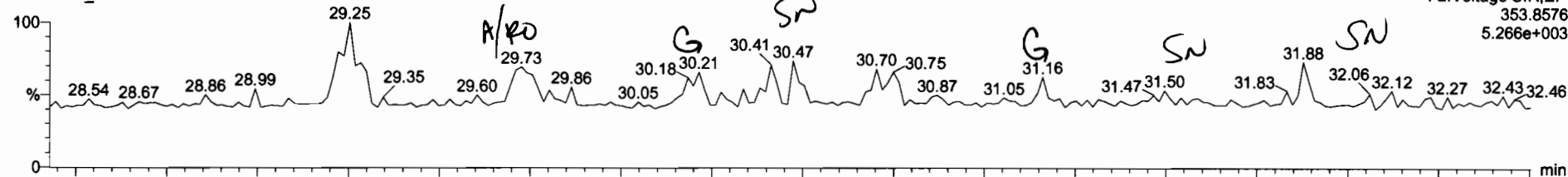
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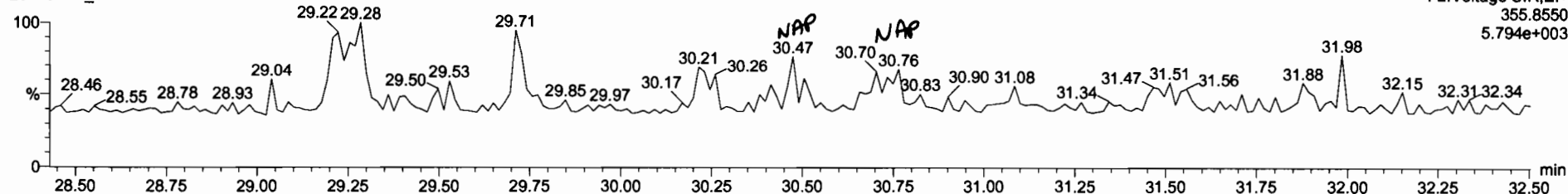
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1,2,3,7,8-PeCDD

200707R2_14

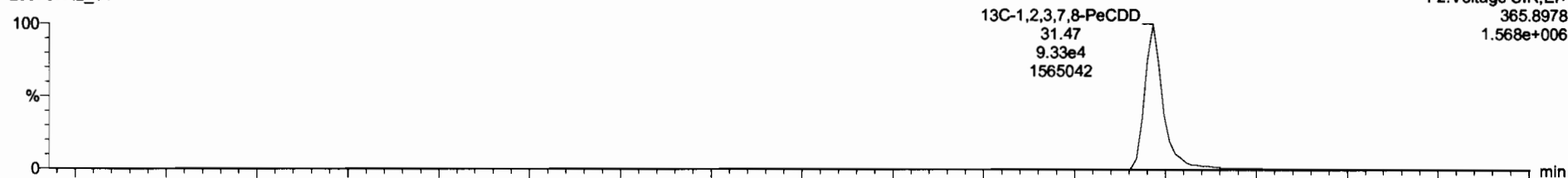


200707R2_14

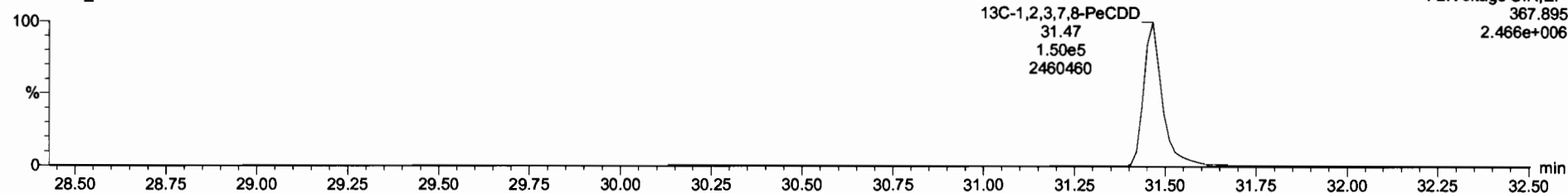


13C-1,2,3,7,8-PeCDD

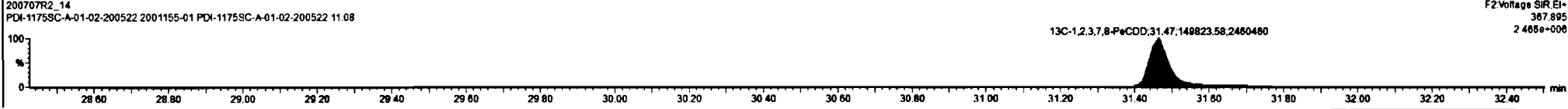
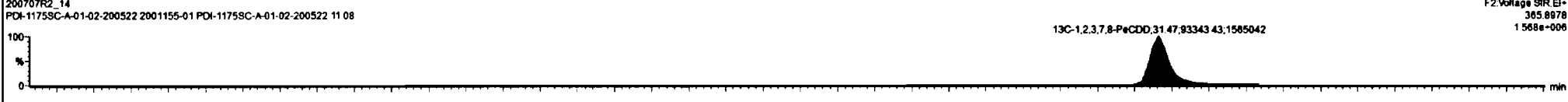
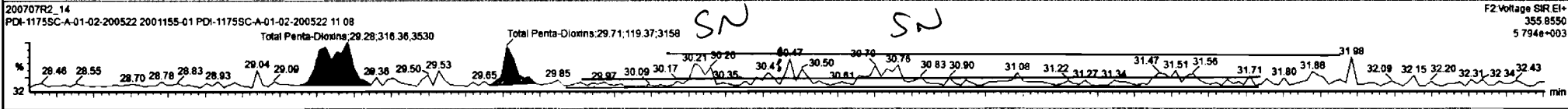
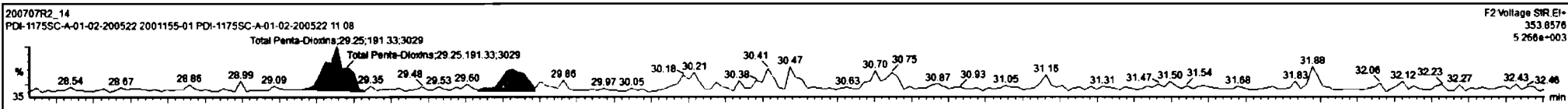
200707R2_14



200707R2_14



13C-1,2,3,4,6,8-MoCDF	6.06e5	0.50	NO	1.0000	10.024	34.37	1.000	200	100	0.520
Total Tetra-Dioxins	0.8083	10.024								0.147
Total Penta-Dioxins	0.9081	10.024						0.459		0.0700 0.635
Total Hexa-Dioxins	0.8823	10.024						26.7		0.213 28.7
Total Hepta-Dioxins	0.8630	10.024						328		0.585 328
Total Tetra-Furans	0.7510	10.024						0.620		0.281 1.17
1st Func. Penta-Furans	0.8825	10.024						0.839		0.105 0.630
Total Penta-Furans	0.8825	10.024						1.49		0.147 1.49
Total Hexa-Furans	0.9341	10.024						3.06		0.0630 3.05
Total Hepta-Furans	0.8734	10.024						17.8		0.180 17.8
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
OPE1										
OPE2										
OPE3										
OPE4										
OPE5										
OPE6										

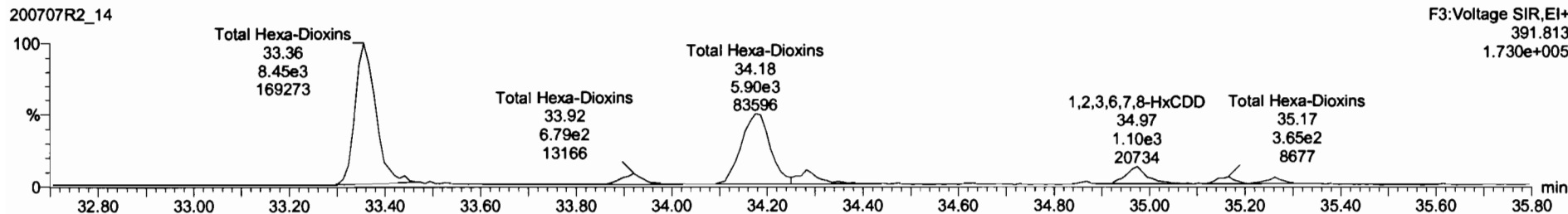
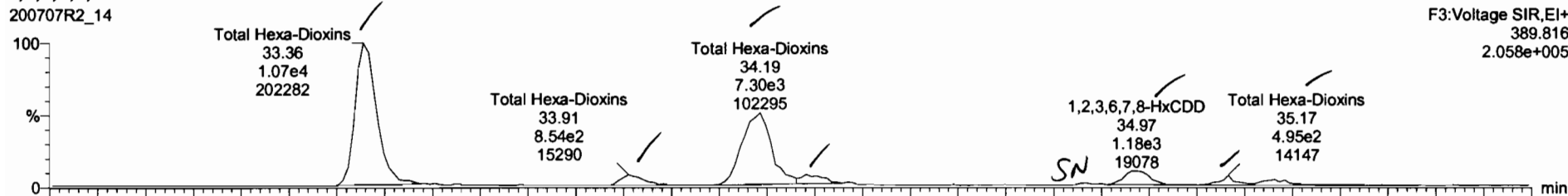


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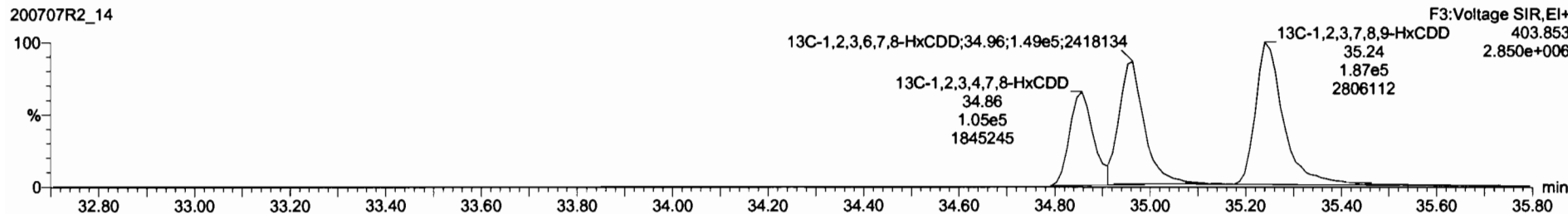
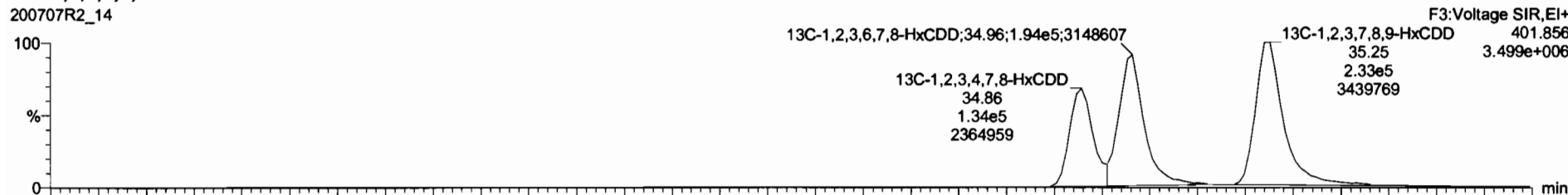
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

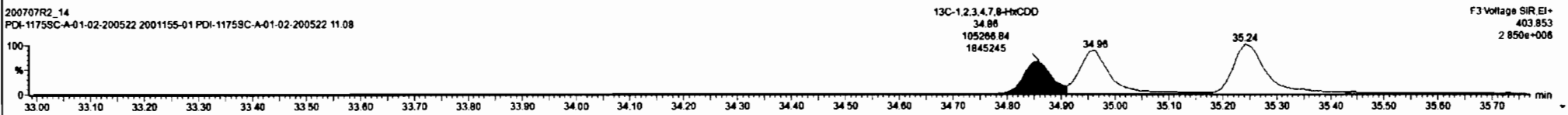
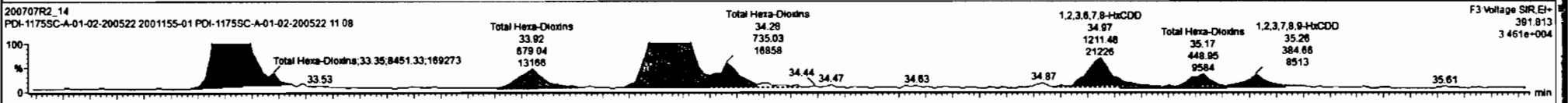
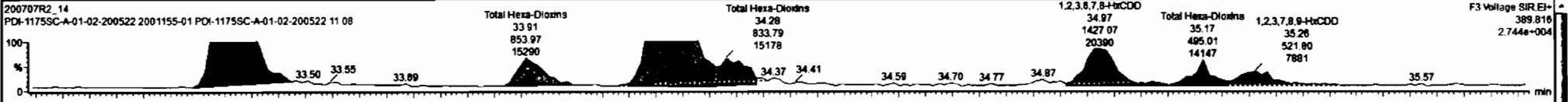
1,2,3,4,7,8-HxCDD



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



13C-1,2,3,4,6,8-HxCDF	6.09e5	0.50	NO	1.0090	10.024	34.37	1.000	200	100	0.520
Total Tetra-Dioxins	0.8883	10.024								0.147
Total Penta-Dioxins	0.9081	10.024					0.459			0.0706 0.635
Total Hepta-Dioxins	0.8839	10.024					328			0.585 328
Total Tetra-Furans	0.7510	10.024					0.620			0.281 1.17
1st Func. Penta-Furans	0.8825	10.024					0.639			0.105 0.639
Total Penta-Furans	0.8825	10.024					1.49			0.147 1.49
Total Hexa-Furans	0.8341	10.024					3.86			0.0639 3.85
Total Hepta-Furans	0.8734	10.024					17.8			0.180 17.8
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



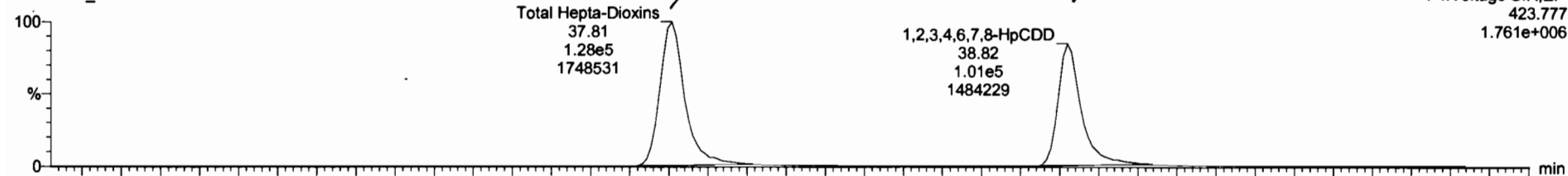
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Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

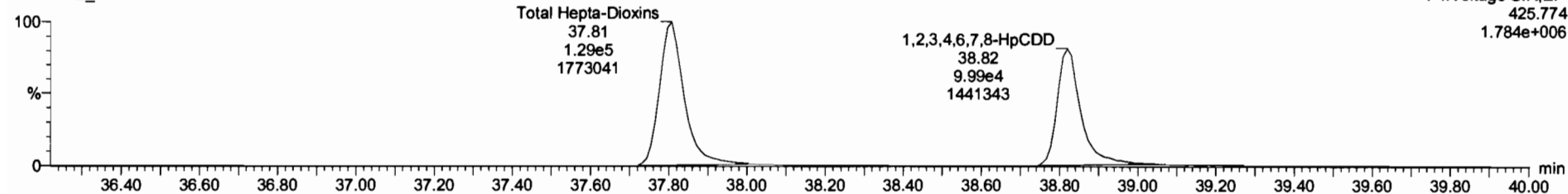
Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

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

200707R2_14

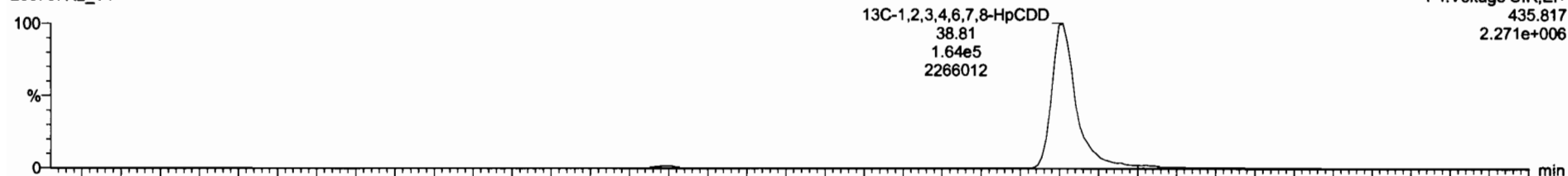


200707R2_14

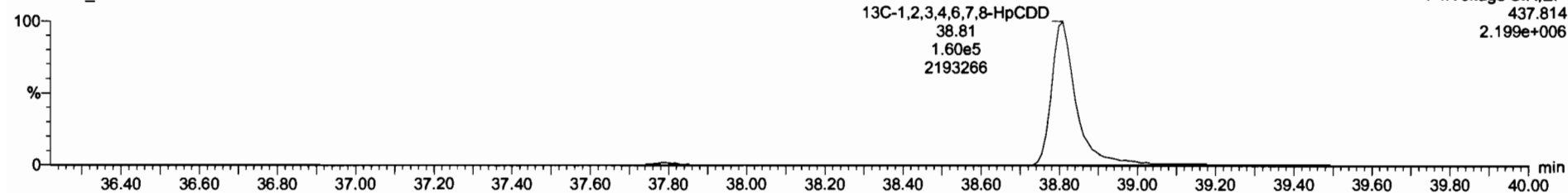


13C-1,2,3,4,6,7,8-HpCDD

200707R2_14



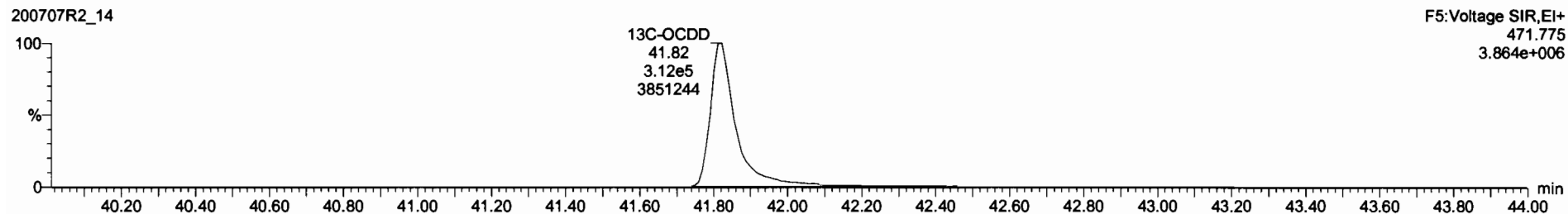
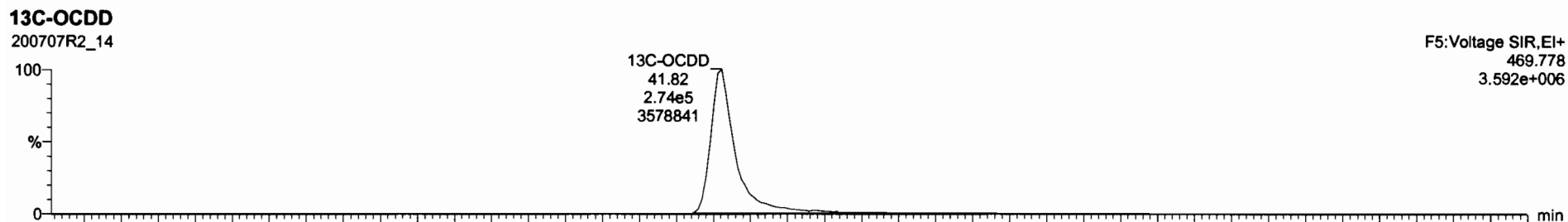
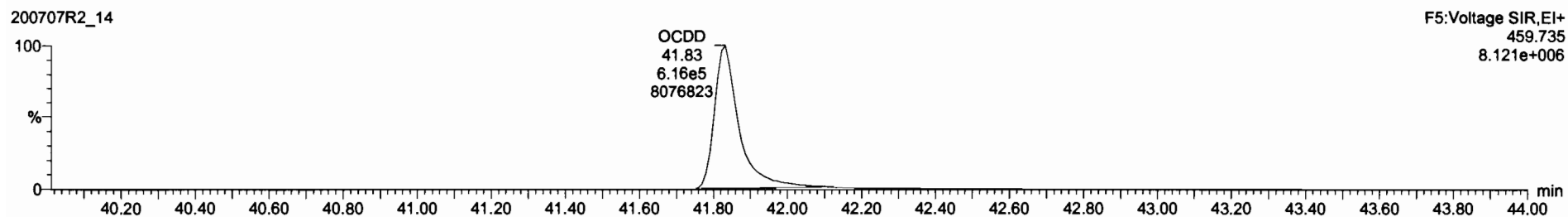
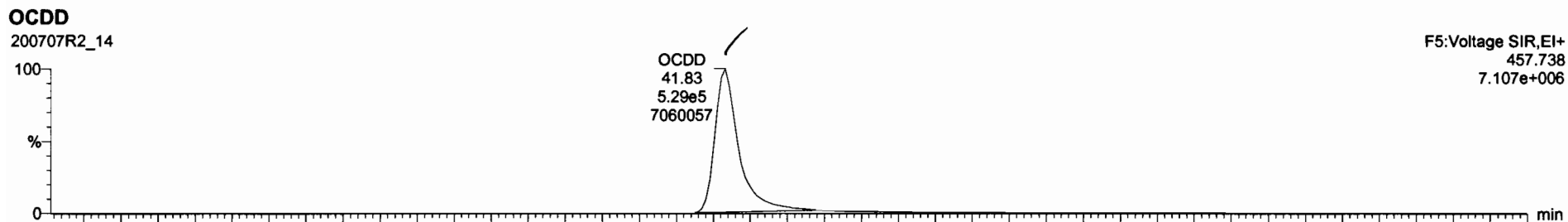
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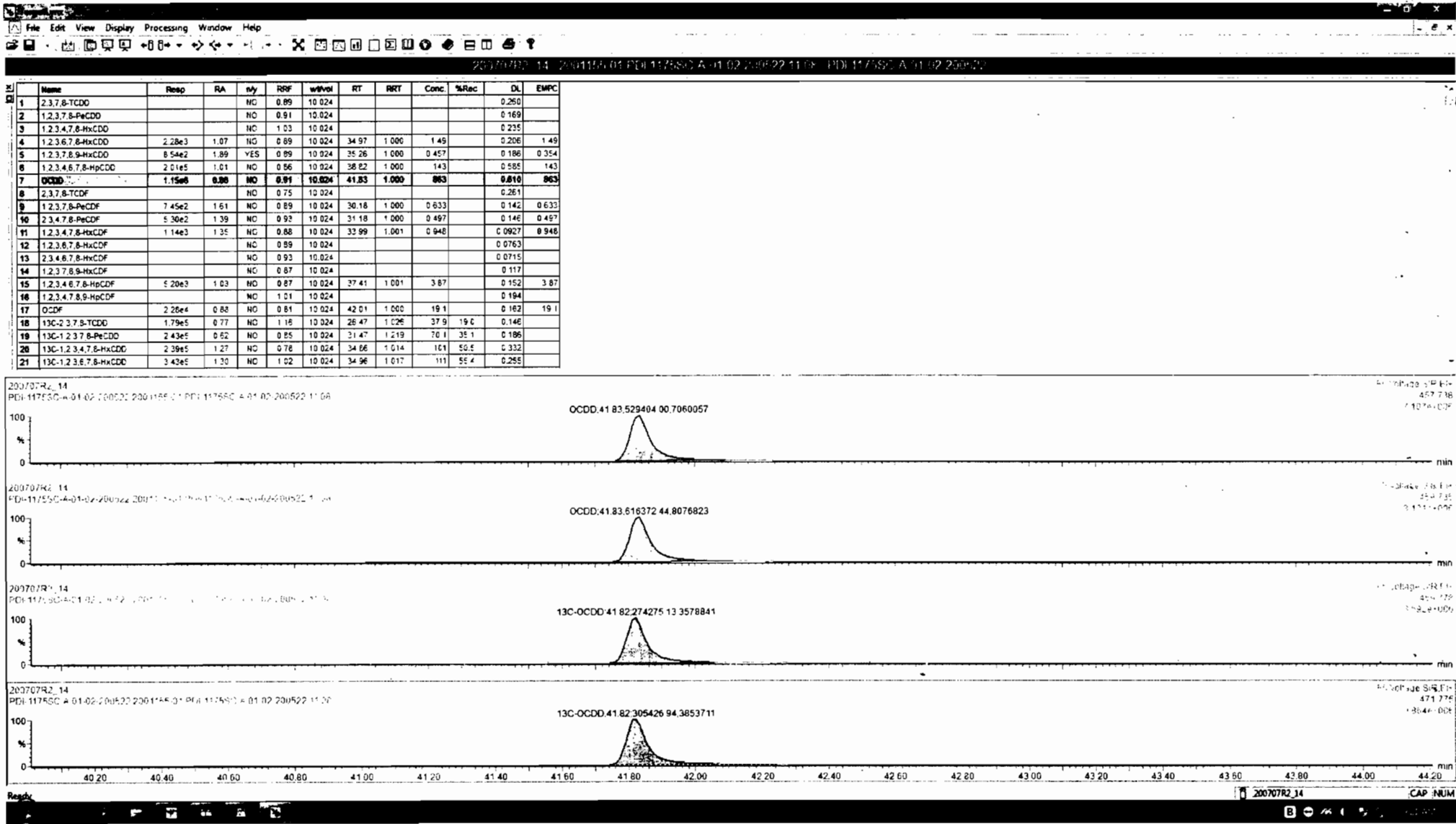


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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522





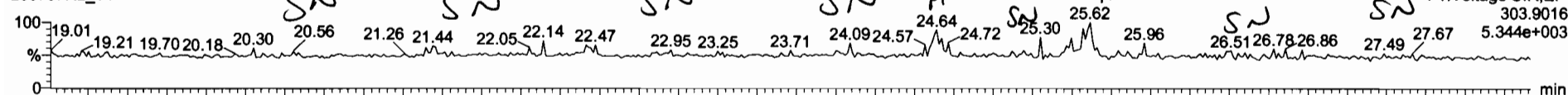
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

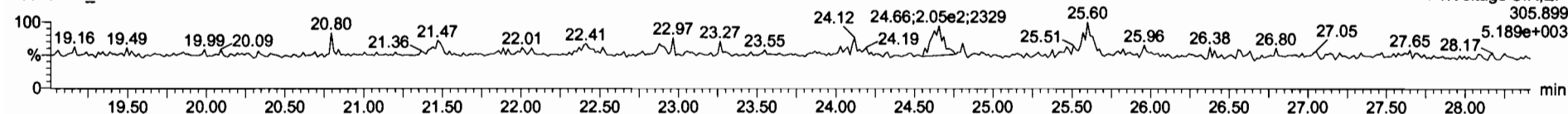
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2,3,7,8-TCDF

200707R2_14

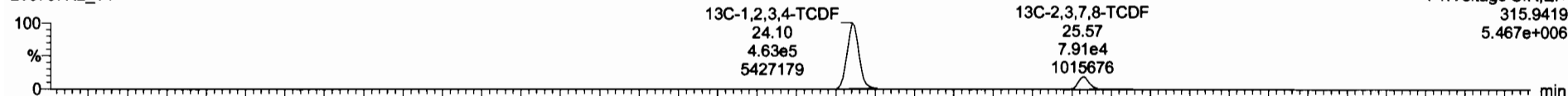


200707R2_14

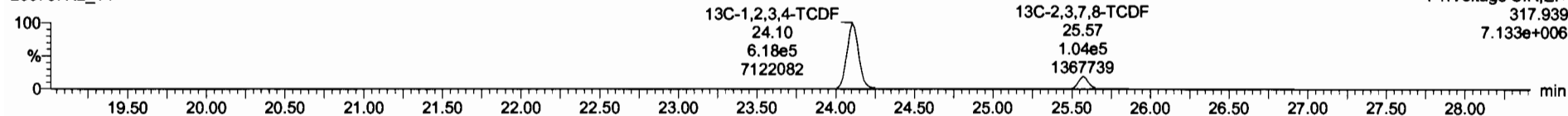


13C-2,3,7,8-TCDF

200707R2_14

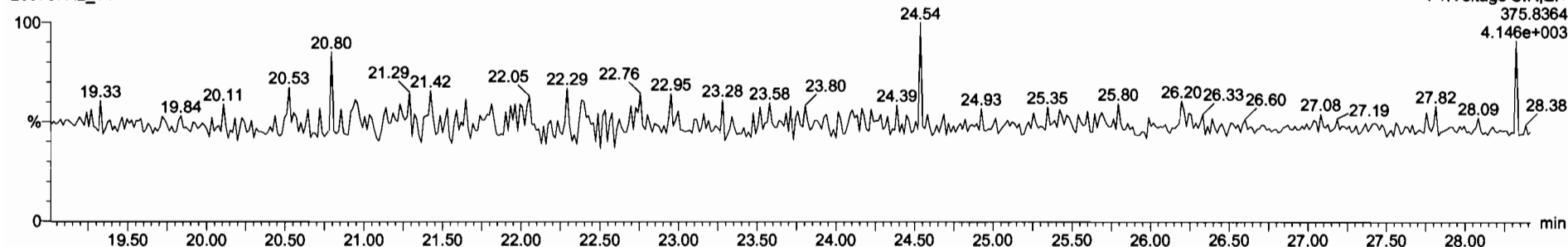


200707R2_14

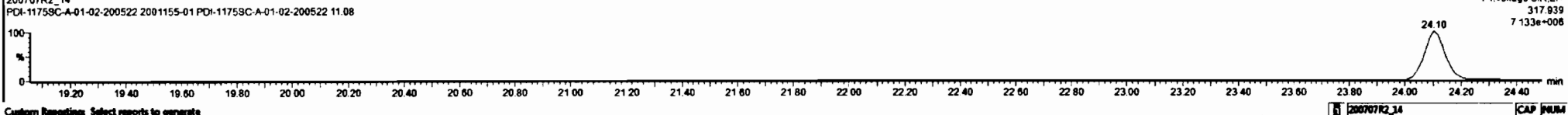
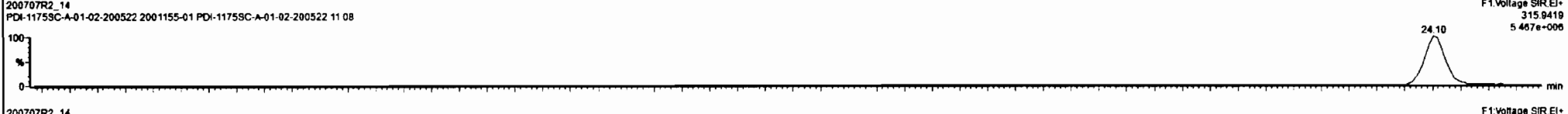
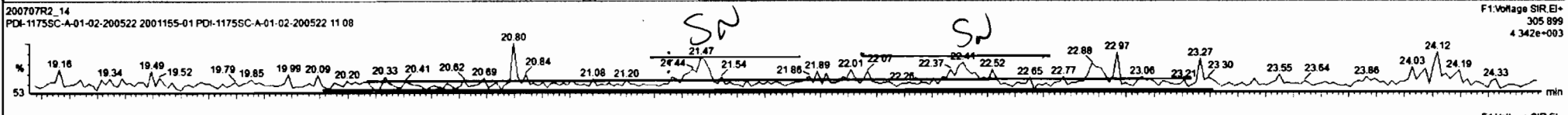
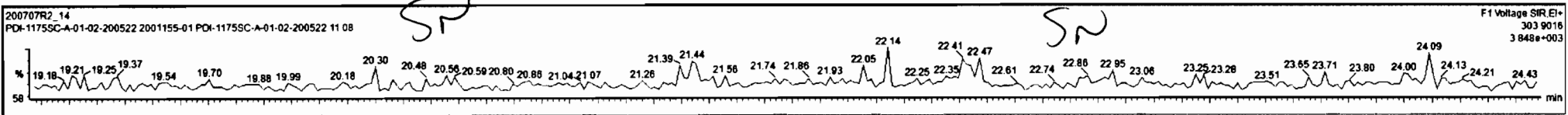


DPE1

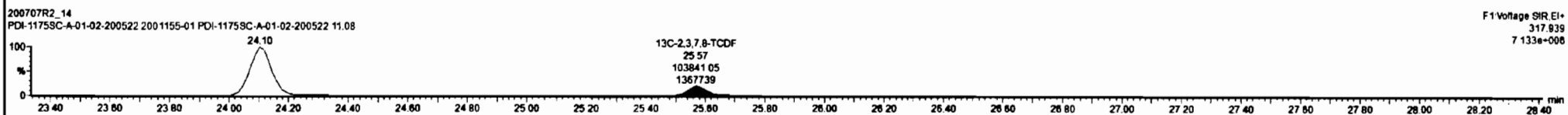
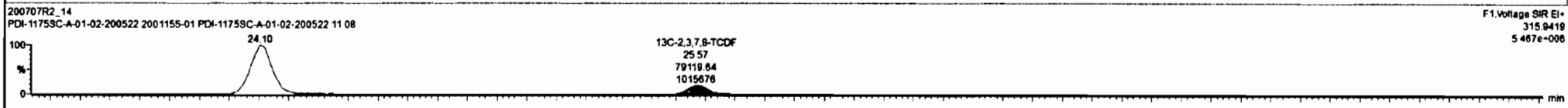
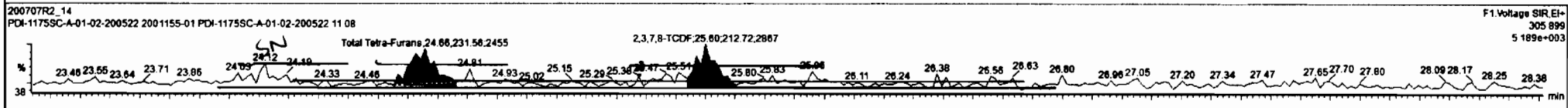
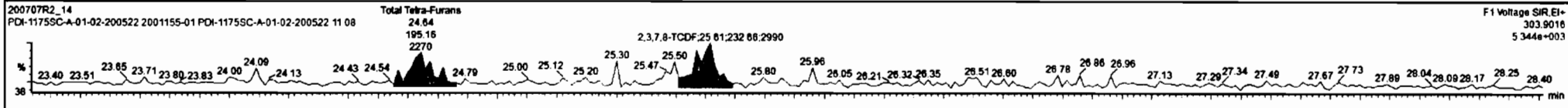
200707R2_14



13C-1,2,3,4,6,9-HxCDF	6.06e5	0.56	HO	1.0000	10.024	34.37	1.000	200	100	0.520
Total Tetra-Dioxins	0.8983	10.024								0.147
Total Penta-Dioxins	0.9091	10.024						0.450		0.0706 0.635
Total Hexa-Dioxins	0.8623	10.024						26.7		0.213 26.7
Total Hepta-Dioxins	0.8639	10.024						326		0.585 326
1st Func. Penta-Furans	0.8625	10.024						0.630		0.105 0.630
Total Penta-Furans	0.8625	10.024						1.49		0.147 1.49
Total Hexa-Furans	0.8341	10.024						3.96		0.0639 3.65
Total Hepta-Furans	0.8734	10.024						17.8		0.180 17.8
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



13C-1,2,3,4,6,8-HxCDF	6.00e5	0.50	NO	1.0000	10.024	34.37	1.000	200	100	0.520
Total Tetra-Dioxins				0.8863	10.024					0.147
Total Penta-Dioxins				0.9081	10.024			0.459		0.0708 0.635
Total Hexa-Dioxins				0.8823	10.024			26.7		0.213 26.7
Total Hepta-Dioxins				0.8830	10.024			326		0.585 326
1st Func. Penta-Furans				0.8825	10.024			0.639		0.105 0.639
Total Penta-Furans				0.8825	10.024			1.49		0.147 1.49
Total Hexa-Furans				0.8341	10.024			3.66		0.0839 3.65
Total Hepta-Furans				0.8734	10.024			17.8		0.180 17.8
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



Dataset: Untitled

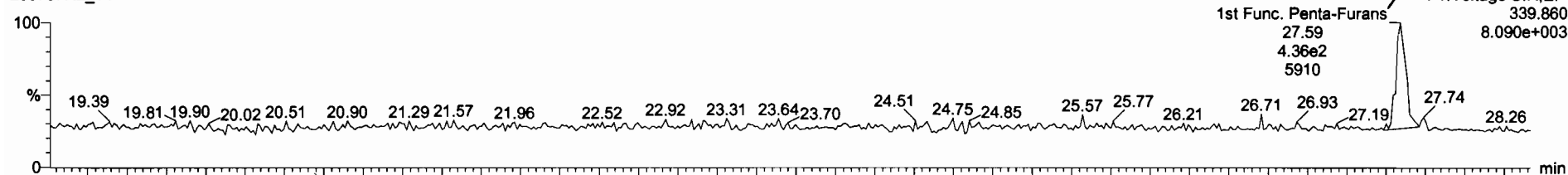
Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

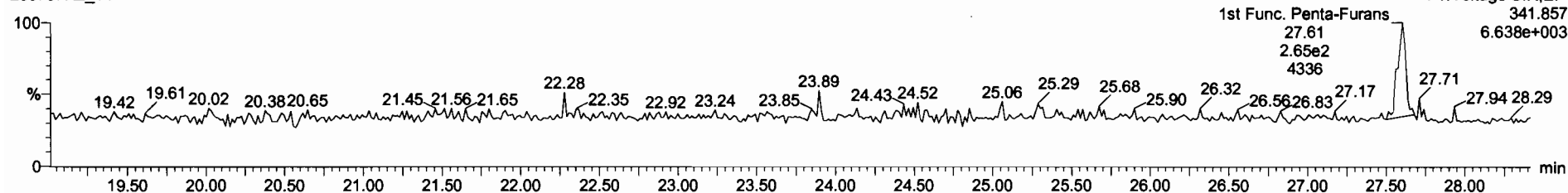
Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

1st Func. Penta-Furans

200707R2_14

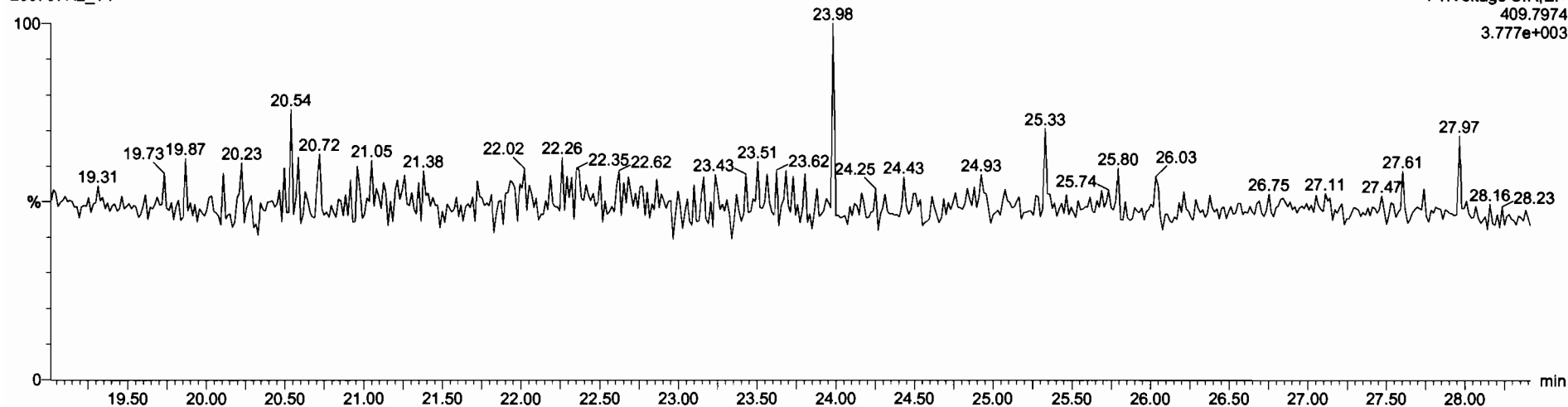


200707R2_14



DPE6

200707R2_14

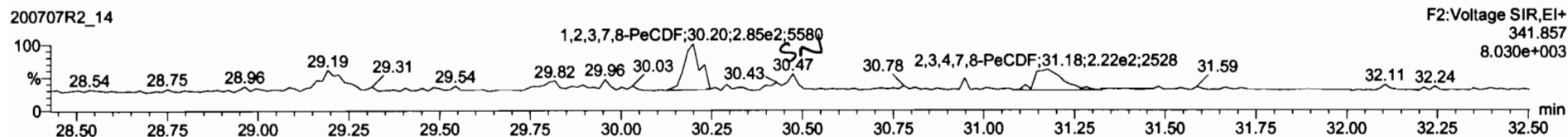
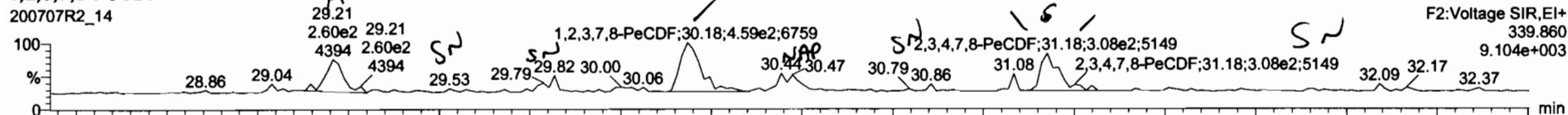


Dataset: Untitled

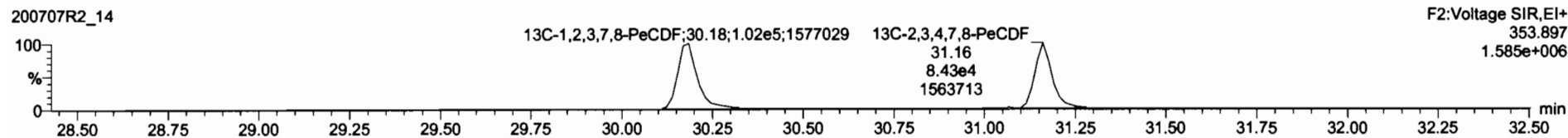
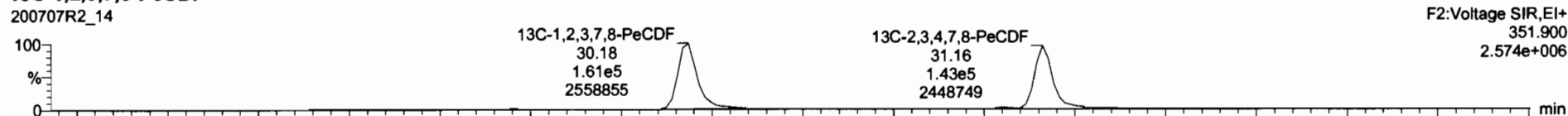
Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

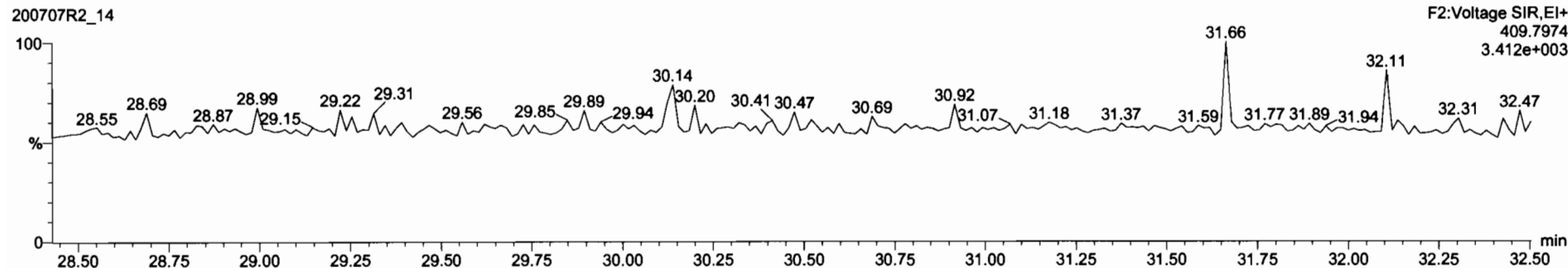
1,2,3,7,8-PeCDF

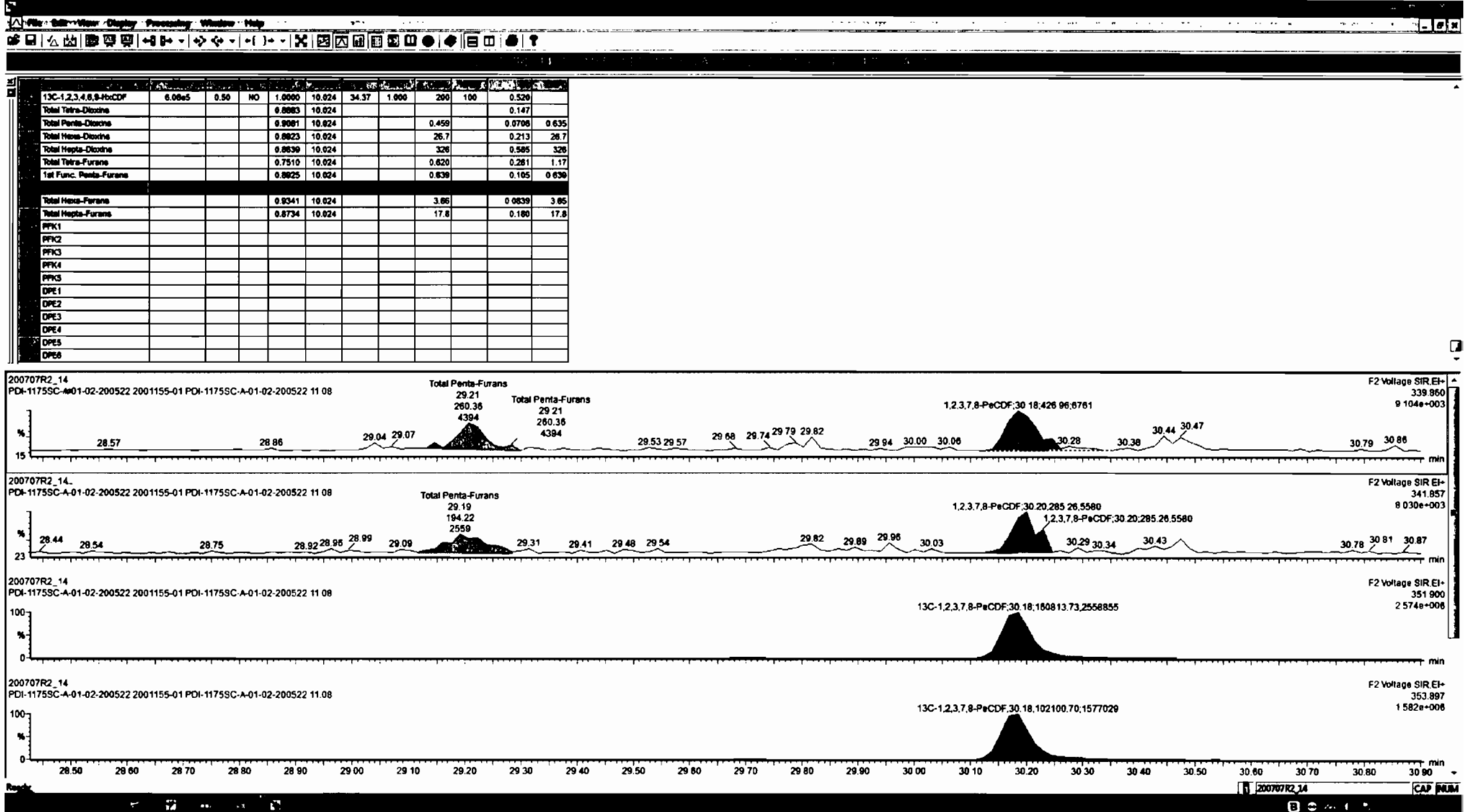


13C-1,2,3,7,8-PeCDF

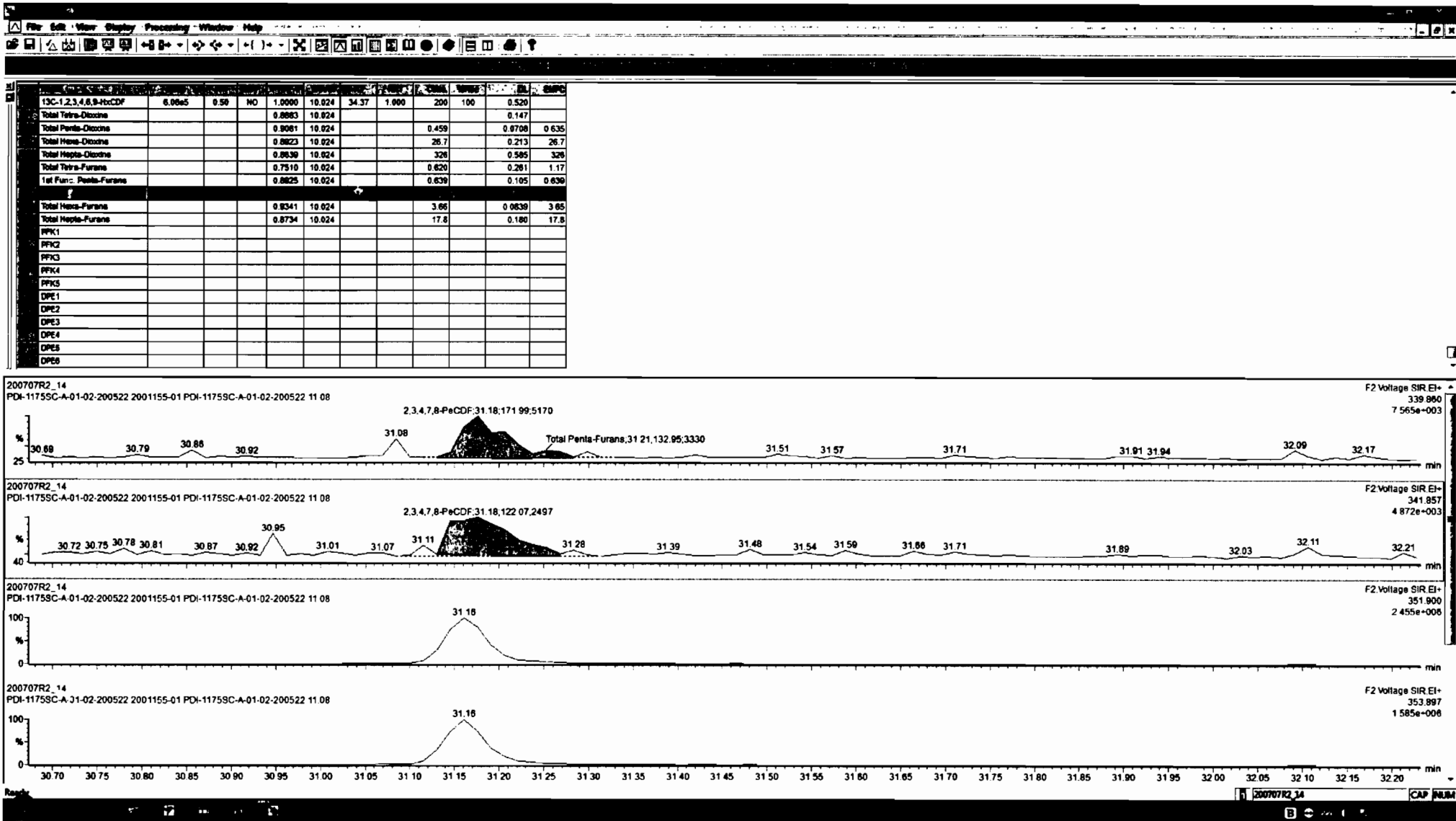


DPE2





13C-1,2,3,4,6,8-HxCDF	6.00e5	0.50	NO	1.0000	10.024	34.37	1.000	200	100	0.520
Total Tetra-Dioxine				0.8083	10.024					0.147
Total Penta-Dioxine				0.9081	10.024			0.459		0.0708 0.635
Total Hexa-Dioxine				0.8623	10.024			26.7		0.213 26.7
Total Hepta-Dioxine				0.8630	10.024			326		0.585 326
Total Tetra-Furane				0.7510	10.024			0.620		0.281 1.17
Total Func. Penta-Furans				0.8625	10.024			0.630		0.105 0.630
Total Hexa-Furans				0.9341	10.024			3.86		0.0839 3.85
Total Hepta-Furans				0.8734	10.024			17.8		0.180 17.8
PFK1										
PFK2										
PFK3										
PFK4										
PPK3										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



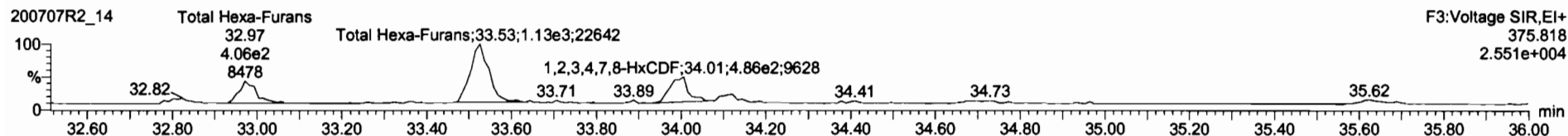
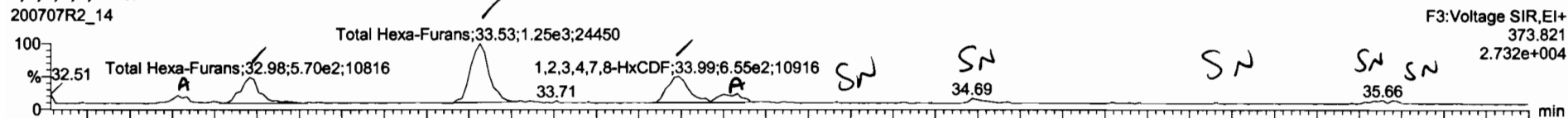
Comp	Conc	Area	Time	Height	Width	Area%	Height%	Width%
13C-1,2,3,4,6,8-HxCDF	6.06e5	0.59	NO	1.0000	10.024	34.37	1.000	100
Total Tetra-Dioxins				0.8683	10.024			0.520
Total Penta-Dioxins				0.9081	10.024			0.147
Total Hexa-Dioxins				0.8623	10.024			0.459
Total Hepta-Dioxins				0.8630	10.024			0.213
Total Tetra-Furans				0.7510	10.024			0.267
1st Func. Penta-Furans				0.8625	10.024			0.585
								3.26
								0.620
								0.281
								1.17
								0.630
Total Hepta-Furans				0.8341	10.024			3.66
Total Hepta-Furans				0.8734	10.024			0.0630
PFK1								3.65
PFK2								0.180
PFK3								17.8
PFK4								
PFK5								
DPE1								
DPE2								
DPE3								
DPE4								
DPE5								
DPE6								

Dataset: Untitled

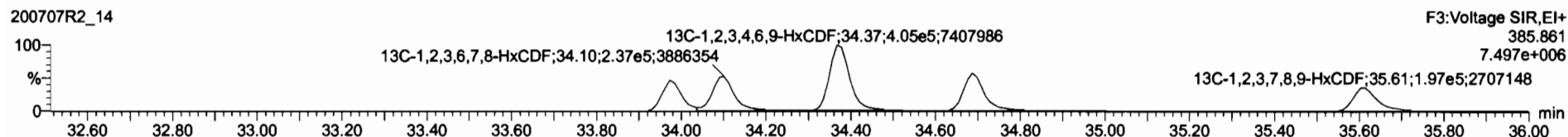
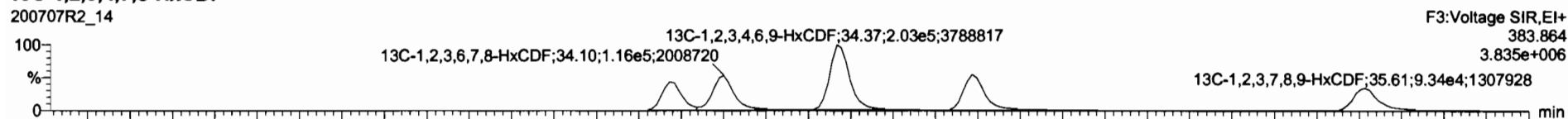
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

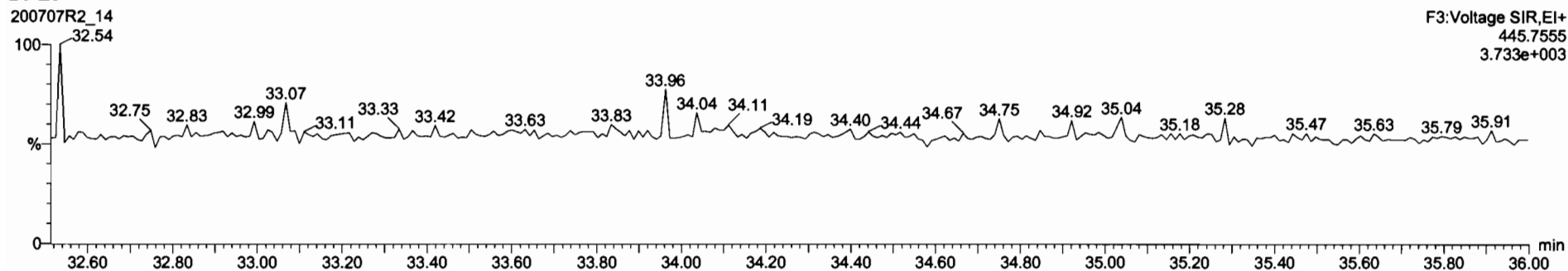
1,2,3,4,7,8-HxCDF



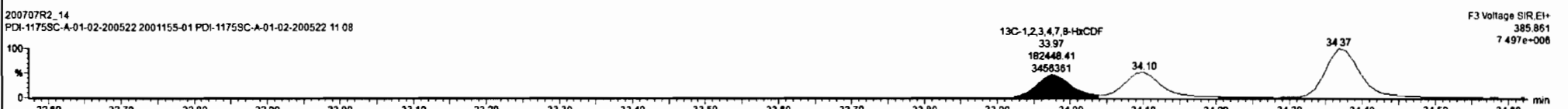
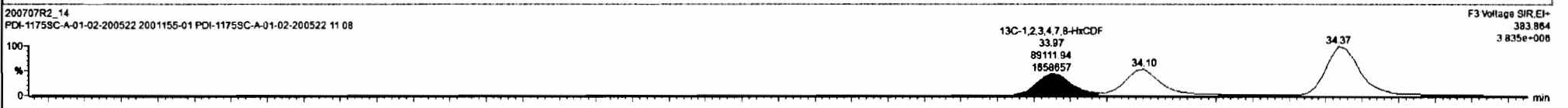
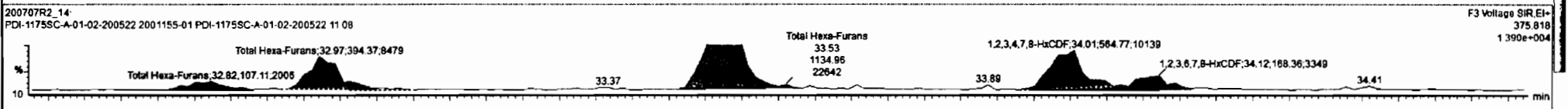
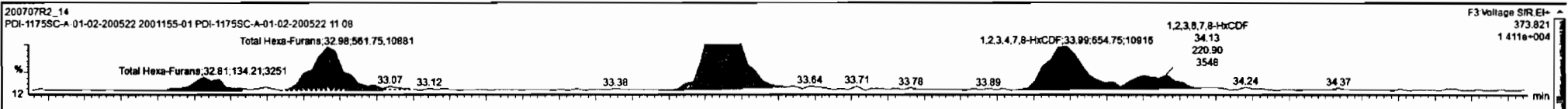
13C-1,2,3,4,7,8-HxCDF



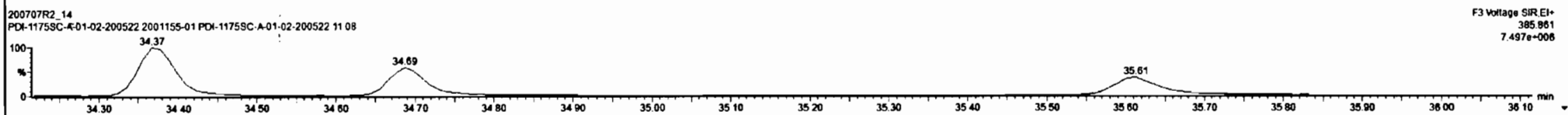
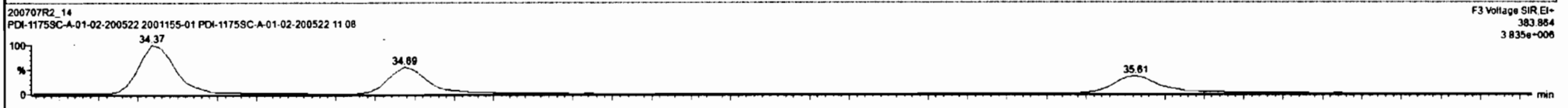
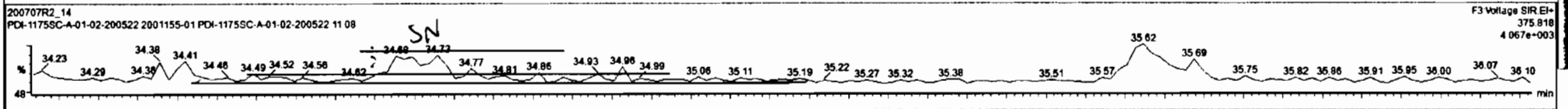
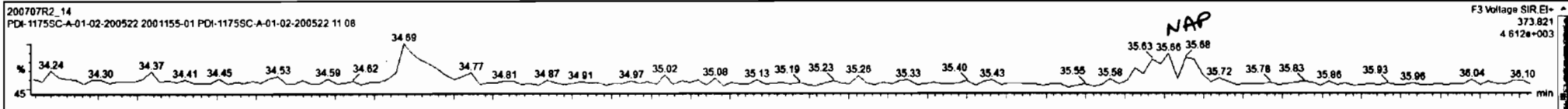
DPE3



13C-1,2,3,4,8,9-HxCDF	6.06e5	0.50	HO	1.0000	10.024	34.37	1.900	200	100	0.520
Total Tetra-Dioxins				0.8883	10.024					0.147
Total Penta-Dioxins				0.9081	10.024			0.459		0.0708
Total Hexa-Dioxins				0.8823	10.024			26.7		0.213
Total Hepta-Dioxins				0.8639	10.024			326		0.585
Total Tetra-Furans				0.7510	10.024			0.620		0.281
1st Func. Penta-Furans				0.8825	10.024			0.639		0.105
Total Penta-Furans				0.8825	10.024			1.49		0.147
Total Hepta-Furans				0.8734	10.024			17.8		0.180
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



13C-1,2,3,4,6,8-HxCDF	6.06e5	0.50	HO	1.0000	10.024	34.37	1.000	200	100	0.520
Total Tetra-Dioxins				0.8883	10.024					0.147
Total Penta-Dioxins				0.9081	10.024			0.459		0.9708 0.635
Total Hexa-Dioxins				0.8823	10.024			26.7		0.213 26.7
Total Hepta-Dioxins				0.8839	10.024			326		0.585 326
Total Tetra-Furans				0.7510	10.024			0.620		0.281 1.17
1st Func. Penta-Furans				0.8825	10.024			0.639		0.105 0.639
Total Penta-Furans				0.8825	10.024			1.49		0.147 1.49
Total Hepta-Furans				0.8734	10.024			17.8		0.180 17.8
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										

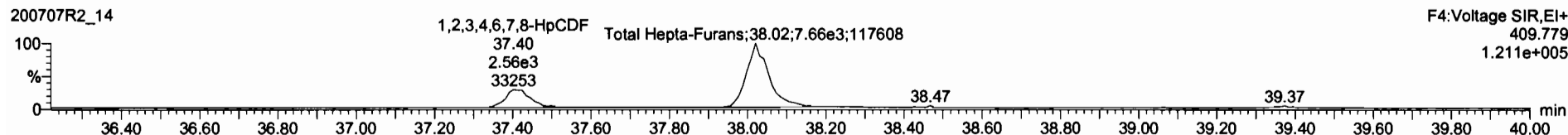
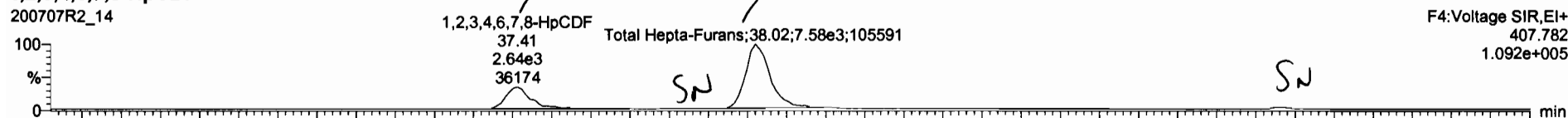


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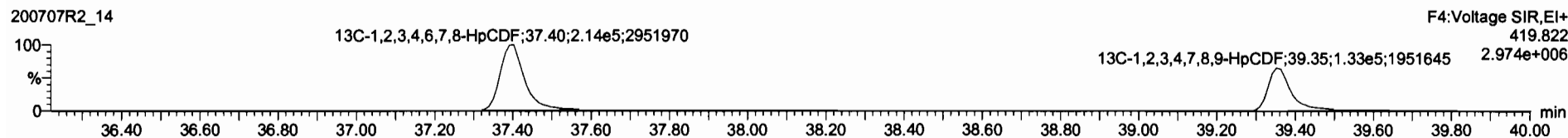
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

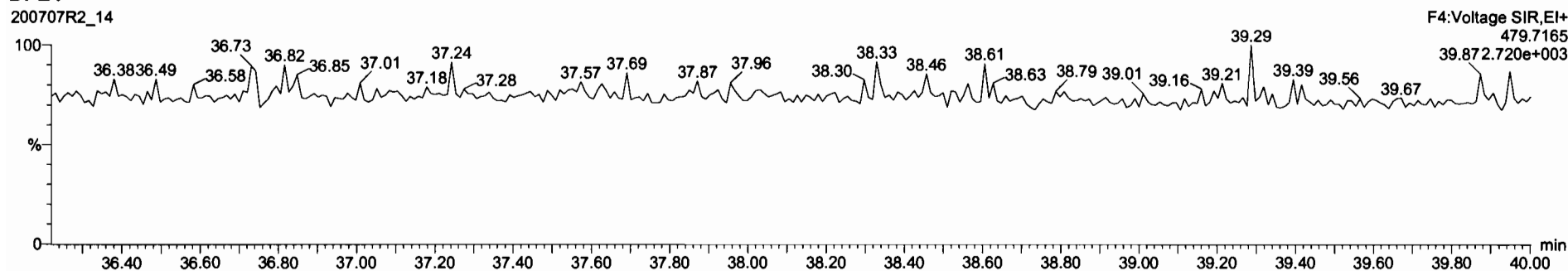
1,2,3,4,6,7,8-HpCDF



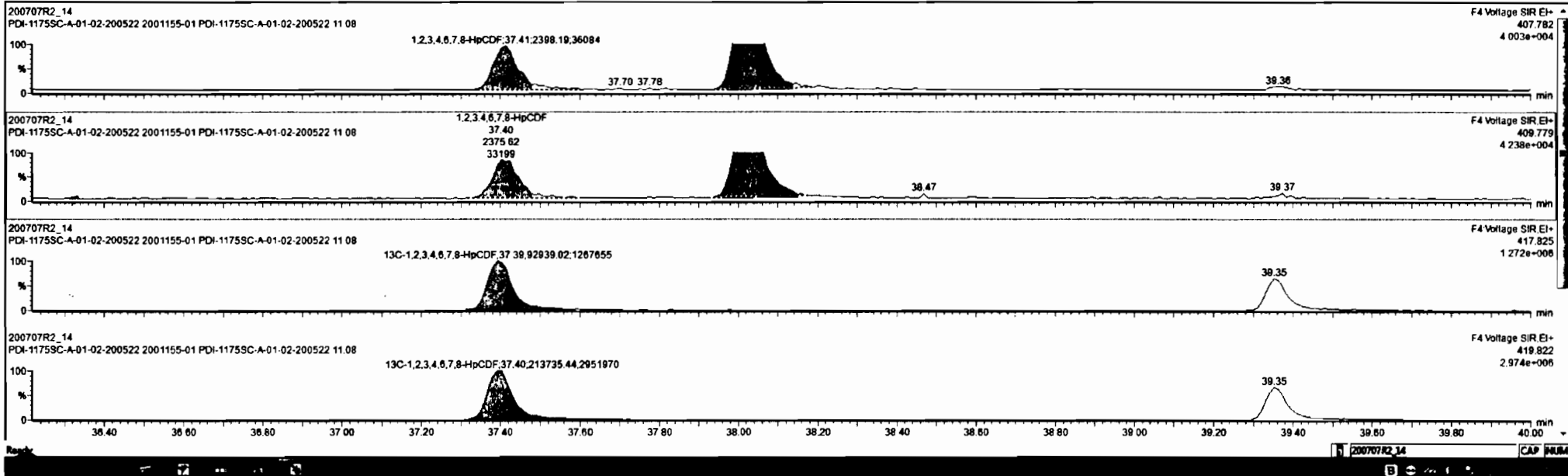
13C-1,2,3,4,6,7,8-HpCDF



DPE4



13C-1,2,3,4,6,7,8-HpCDF	0.06e5	0.50	NO	1.0000	10.024	34.37	1.000	290	100	0.520
Total Tetra-Dioxins	0.8863	10.024								0.147
Total Penta-Dioxins	0.9081	10.024					0.459			0.635
Total Hexa-Dioxins	0.8823	10.024					26.7			0.213 26.7
Total Hepta-Dioxins	0.8639	10.024					326			0.585 326
Total Tetra-Furans	0.7510	10.024					0.620			0.281 1.17
1st Func. Penta-Furans	0.8825	10.024					0.639			0.105 0.639
Total Penta-Furans	0.8825	10.024					1.49			0.147 1.49
Total Hexa-Furans	0.8341	10.024					3.86			0.0839 3.86
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



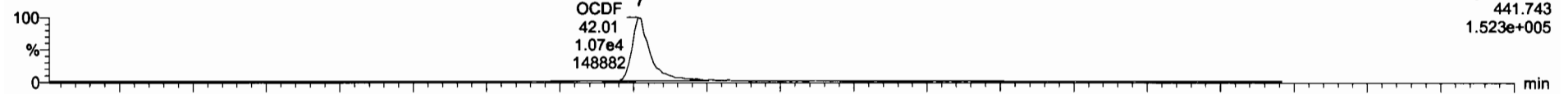
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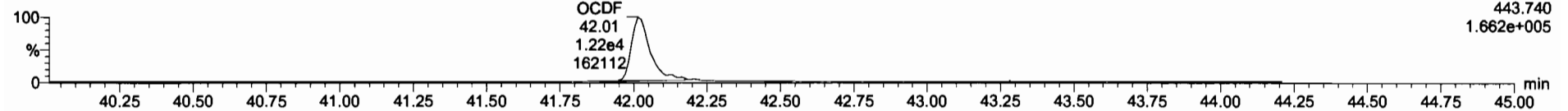
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OCDF

200707R2_14

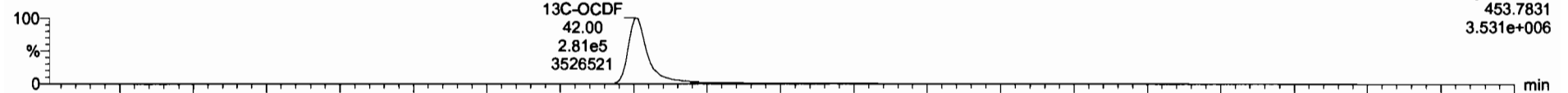


200707R2_14

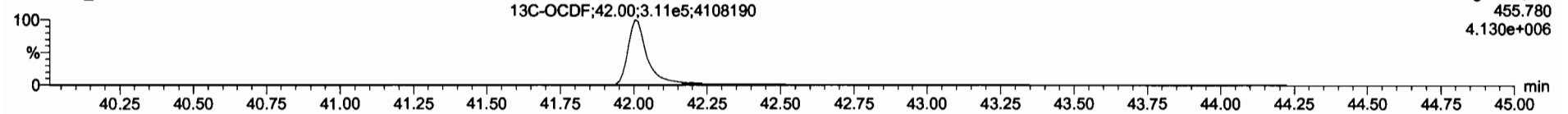


13C-OCDF

200707R2_14

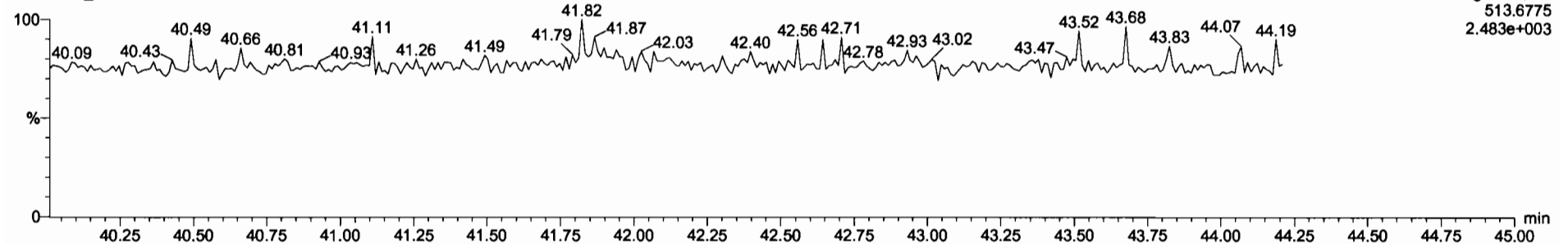


200707R2_14

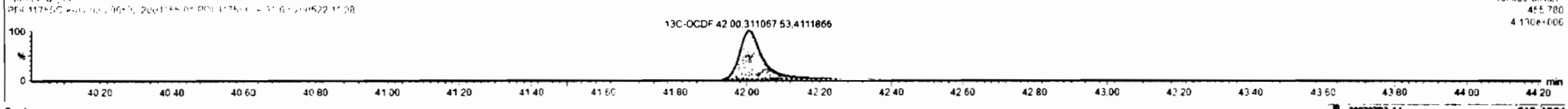
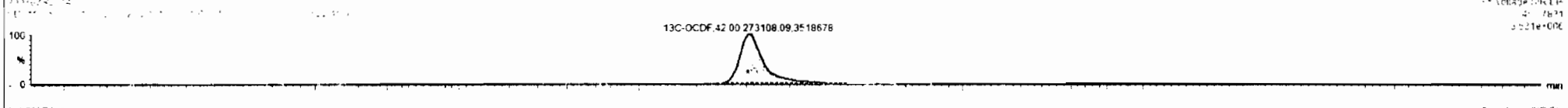
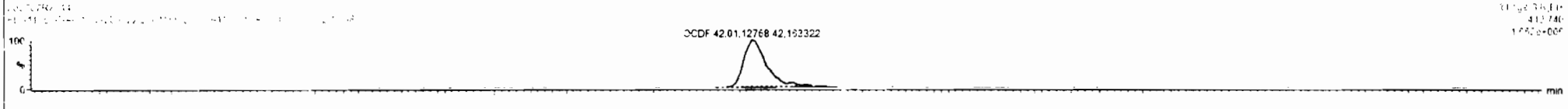
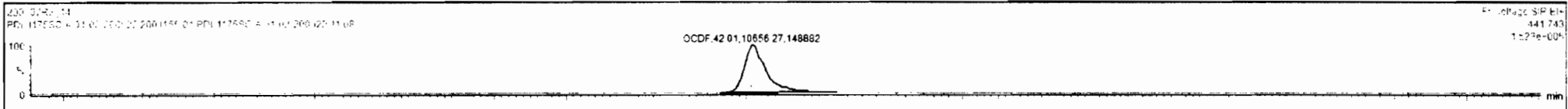


DPE5

200707R2_14



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.89	10.024					0.280	
2	1,2,3,7,8-PeCDD			NO	0.51	10.024					0.169	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.024					0.225	
4	1,2,3,6,7,8-HxCDD	2.28e3	1.07	NO	0.89	10.024	34.97	1.000	1.49		0.206	1.49
5	1,2,3,7,8,9-HxCDD	8.54e2	1.89	YES	0.89	10.024	35.26	1.000	0.457		0.186	0.354
6	1,2,3,4,6,7,8-HpCDD	2.01e5	1.01	NO	0.36	10.024	38.82	1.000	143		0.585	143
7	OCDD	1.15e6	0.56	NO	0.51	10.024	41.83	1.000	863		0.615	863
8	2,3,7,8-TCDF			NO	0.75	10.024					0.261	
9	1,2,3,7,8-PeCDF	7.45e2	1.61	NO	0.55	10.024	30.18	1.000	0.633		0.142	0.633
10	2,3,4,7,8-PeCDF	5.30e2	1.39	NO	0.93	10.024	31.18	1.000	0.497		0.146	0.497
11	1,2,3,4,7,8-HxCDF	1.14e3	1.35	NO	0.66	10.024	33.99	1.001	0.948		0.0927	0.948
12	1,2,3,6,7,8-HxCDF			NO	0.89	10.024					0.0763	
13	2,3,4,6,7,8-HxCDF			NO	0.93	10.024					0.0715	
14	1,2,3,7,8,9-HxCDF			NO	0.67	10.024					0.117	
15	1,2,3,4,6,7,8-HpCDF	5.20e3	1.02	NO	0.87	10.024	37.41	1.001	3.87		0.152	3.87
16	1,2,2,4,7,8,9-HpCDF			NO	1.01	10.024					0.194	
17	OCDF	2.34e4	0.83	NO	0.81	10.024	42.01	1.000	18.0		0.101	18.0
18	1,3C-2,3,7,8-TCDD	1.79e5	0.77	NO	1.16	10.024	26.47	1.026	37.9	19.0	0.146	
19	1,3C-1,2,3,7,8-PeCDD	2.43e5	0.62	NO	0.55	10.024	21.47	1.219	70.1	35.1	0.186	
20	1,3C-1,2,3,4,7,8-HxCDD	2.39e5	1.27	NO	0.78	10.024	34.86	1.014	101	50.5	0.332	
21	1,3C-1,2,3,6,7,8-HxCDD	3.43e5	1.10	NO	1.02	10.024	34.96	1.017	111	55.4	0.251	



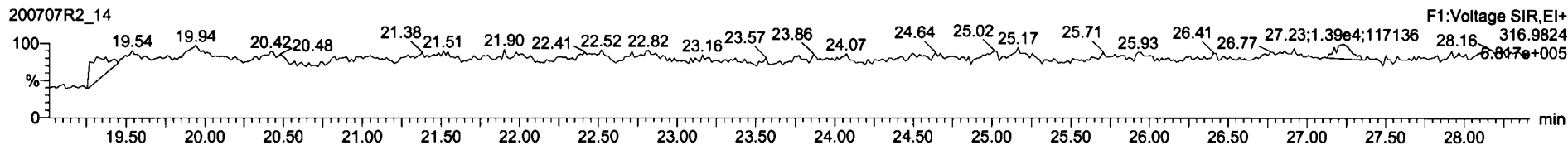
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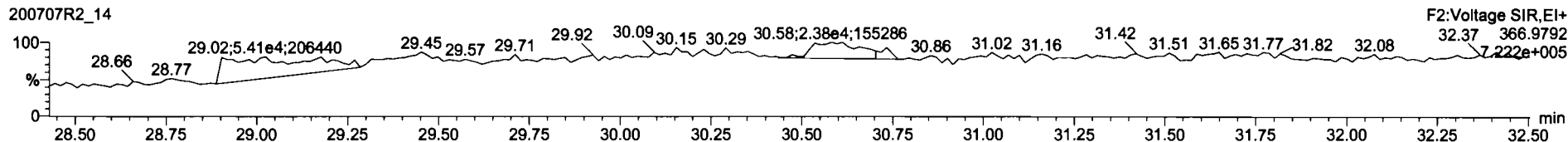
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Name: 200707R2_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

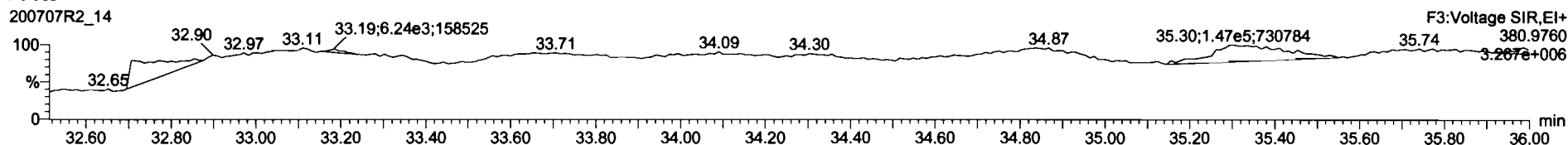
PFK1



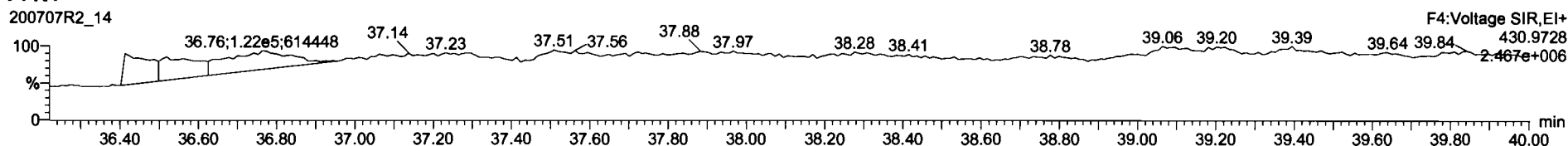
PFK2



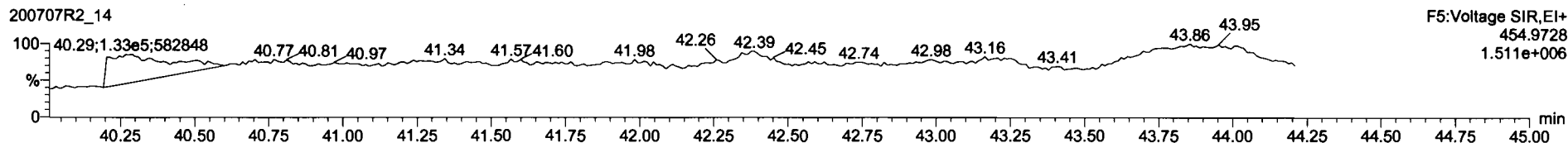
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200628R1\200628R1-9.qld

Last Altered: Monday, July 06, 2020 2:16:49 PM Pacific Daylight Time
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GRB 07/06/2020

C7 07/09/2020

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: 200628R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

Peak	NA	n/y	RRF	Wind	Peak1	Peak2	RRR	RRR	RRR	RRR	RRR	RRR	
1 2,3,7,8-TCDD			NO	0.888	10.133	26.501		1.001				0.206	
2 1,2,3,7,8-PeCDD			NO	0.908	10.133	31.457		1.001				0.277	
3 1,2,3,4,7,8-HxCDD	6.12e2	1.41	NO	1.03	10.133	34.835	34.93	1.000	1.003	0.55195		0.304	0.552
4 1,2,3,6,7,8-HxCDD			NO	0.892	10.133	34.921		1.000				0.287	
5 1,2,3,7,8,9-HxCDD			NO	0.887	10.133	35.220		1.000				0.357	
6 1,2,3,4,6,7,8-HpCDD	3.10e4	0.99	NO	0.864	10.133	38.767	38.77	1.000	1.000	34.693		0.626	34.7
7 OCDD	2.09e5	0.87	NO	0.914	10.133	41.748	41.76	1.000	1.000	256.50		1.84	257
8 2,3,7,8-TCDF	7.52e2	0.78	NO	0.751	10.133	25.596	25.60	1.001	1.001	0.49254 (0.387)		0.144	0.493
9 1,2,3,7,8-PeCDF	1.14e3	1.76	NO	0.893	10.133	30.175	30.18	1.001	1.001	0.60305		0.122	0.603
10 2,3,4,7,8-PeCDF	7.40e2	1.74	NO	0.935	10.133	31.161	31.15	1.001	1.000	0.38977		0.114	0.390
11 1,2,3,4,7,8-HxCDF	1.43e3	1.10	NO	0.884	10.133	33.941	33.96	1.000	1.001	1.1067		0.151	1.11
12 1,2,3,6,7,8-HxCDF	5.61e2	1.10	NO	0.889	10.133	34.079	34.09	1.000	1.001	0.33141		0.143	0.331
13 2,3,4,6,7,8-HxCDF			NO	0.934	10.133	34.690		1.001				0.144	
14 1,2,3,7,8,9-HxCDF			NO	0.871	10.133	35.571		1.000				0.233	
15 1,2,3,4,6,7,8-HpCDF	2.55e3	1.06	NO	0.873	10.133	37.386	37.37	1.001	1.001	2.3168		0.259	2.32
16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.133	39.299		1.000				0.336	
17 OCDF	5.90e3	0.80	NO	0.806	10.133	41.940	41.95	1.000	1.000	7.0485		0.474	7.05
18 13C-2,3,7,8-TCDD	3.34e5	0.78	NO	1.16	10.133	26.491	26.47	1.026	1.026	104.72	53.1	0.335	
19 13C-1,2,3,7,8-PeCDD	3.13e5	0.66	NO	0.849	10.133	31.674	31.43	1.227	1.218	133.37	67.6	0.485	
20 13C-1,2,3,4,7,8-HxCDD	2.12e5	1.27	NO	0.779	10.133	34.819	34.83	1.014	1.014	109.81	55.6	0.861	
21 13C-1,2,3,6,7,8-HxCDD	3.11e5	1.26	NO	1.02	10.133	34.932	34.92	1.017	1.017	123.70	62.7	0.659	
22 13C-1,2,3,7,8,9-HxCDD	2.68e5	1.29	NO	0.903	10.133	35.204	35.21	1.025	1.025	119.89	60.7	0.743	
23 13C-1,2,3,4,6,7,8-HpCDD	2.04e5	1.05	NO	0.689	10.133	38.726	38.76	1.128	1.129	119.73	60.7	0.878	
24 13C-OCDD	3.53e5	0.89	NO	0.652	10.133	41.748	41.75	1.216	1.216	218.54	55.4	1.28	
25 13C-2,3,7,8-TCDF	4.01e5	0.77	NO	1.06	10.133	25.534	25.57	0.989	0.991	91.578	46.4	0.470	
26 13C-1,2,3,7,8-PeCDF	4.18e5	1.56	NO	0.838	10.133	30.058	30.15	1.165	1.168	120.42	61.0	1.09	
27 13C-2,3,4,7,8-PeCDF	4.01e5	1.62	NO	0.817	10.133	31.011	31.13	1.202	1.206	118.59	60.1	1.12	
28 13C-1,2,3,4,7,8-HxCDF	2.87e5	0.50	NO	1.01	10.133	33.950	33.94	0.989	0.989	115.25	58.4	0.761	
29 13C-1,2,3,6,7,8-HxCDF	3.76e5	0.54	NO	1.17	10.133	34.074	34.07	0.992	0.992	130.14	65.9	0.657	
30 13C-2,3,4,6,7,8-HxCDF	3.45e5	0.51	NO	1.02	10.133	34.647	34.65	1.009	1.009	136.53	69.2	0.751	
31 13C-1,2,3,7,8,9-HxCDF	2.55e5	0.49	NO	0.860	10.133	35.547	35.57	1.035	1.036	119.86	60.7	0.892	

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-9.qld

Last Altered: Monday, July 06, 2020 2:16:49 PM Pacific Daylight Time
Printed: Monday, July 06, 2020 2:17:20 PM Pacific Daylight Time

Name: 200628R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

	Concentration	RA	NY	RRF	RRF	RRF	RRF	RRF	RRF	RRF	RRF	RRF	RRF
32	13C-1,2,3,4,6,7,8-HpCDF	2.49e5	0.43	NO	0.774	10.133	37.295	37.35	1.086	1.088	129.90	65.8	1.03
33	13C-1,2,3,4,7,8,9-HpCDF	1.53e5	0.41	NO	0.521	10.133	39.324	39.30	1.145	1.145	118.36	60.0	1.54
34	13C-OCDF	4.09e5	0.87	NO	0.746	10.133	41.920	41.94	1.221	1.221	221.79	56.2	0.716
35	37Cl-2,3,7,8-TCDD	1.34e5			1.04	10.133	26.522	26.48	1.028	1.026	46.897	59.4	0.114
36	13C-1,2,3,4-TCDD	5.45e5	0.79	NO	1.00	10.133	25.890	25.81	1.000	1.000	197.38	100	0.387
37	13C-1,2,3,4-TCDF	8.17e5	0.78	NO	1.00	10.133	24.360	24.13	1.000	1.000	197.38	100	0.498
38	13C-1,2,3,4,6,9-HxCDF	4.89e5	0.55	NO	1.00	10.133	34.420	34.33	1.000	1.000	197.38	100	0.767
39	Total Tetra-Dioxins				0.888	10.133	24.620		0.000				0.136
40	Total Penta-Dioxins				0.908	10.133	29.960		0.000				0.125
41	Total Hexa-Dioxins				0.892	10.133	33.635		0.000		8.9026		0.327
42	Total Hepta-Dioxins				0.864	10.133	37.640		0.000		85.425		0.626
43	Total Tetra-Furans				0.751	10.133	23.610		0.000		0.64756		0.144
44	1st Func. Penta-Furans				0.893	10.133	27.580		0.000		0.54748		0.0571
45	Total Penta-Furans				0.893	10.133	29.275		0.000		1.8251		0.120
46	Total Hexa-Furans				0.934	10.133	33.555		0.000		3.4042		0.156
47	Total Hepta-Furans				0.873	10.133	37.835		0.000		8.0175		0.309

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-9.qld

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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\cb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200628R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	IS	IS2	IS3	IS4	
Total Tetra-Dioxins	33.32	4.610e4	3.687e4	2.602e3	2.176e3	1.20	NO	4.778e3	4.0087	4.0087	0.327

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	IS	IS2	IS3	IS4	
Total Penta-Dioxins	33.88	7.303e3	5.743e3	4.096e2	3.066e2	1.34	NO	7.161e2	0.60084	0.60084	0.327

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	IS	IS2	IS3	IS4	
Total Hexa-Dioxins	33.32	4.610e4	3.687e4	2.602e3	2.176e3	1.20	NO	4.778e3	4.0087	4.0087	0.327
Total Hexa-Dioxins	33.88	7.303e3	5.743e3	4.096e2	3.066e2	1.34	NO	7.161e2	0.60084	0.60084	0.327
Total Hexa-Dioxins	34.13	2.607e4	1.957e4	1.997e3	1.630e3	1.23	NO	3.627e3	3.0431	3.0431	0.327
Total Hexa-Dioxins	34.24	6.463e3	5.177e3	4.431e2	3.888e2	1.14	NO	8.320e2	0.69801	0.69801	0.327
1,2,3,4,7,8-HxCDD	34.93	6.263e3	3.550e3	3.581e2	2.538e2	1.41	NO	6.119e2	0.55195	0.55195	0.304

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	IS	IS2	IS3	IS4	
Total Hepta-Dioxins	37.76	2.215e5	2.328e5	2.271e4	2.265e4	1.00	NO	4.536e4	50.732	50.732	0.626
1,2,3,4,6,7,8-HpCDD	38.77	1.698e5	1.692e5	1.539e4	1.562e4	0.99	NO	3.102e4	34.693	34.693	0.626

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	IS	IS2	IS3	IS4	
Total Tetra-Furans	21.47	1.581e3	1.840e3	1.248e2	1.394e2	0.90	YES	0.000e0	0.00000	0.16163	0.144
Total Tetra-Furans	22.41	1.948e3	1.947e3	1.036e2	1.331e2	0.78	NO	2.367e2	0.15502	0.15502	0.144
Total Tetra-Furans	24.67	5.726e3	5.903e3	4.467e2	4.844e2	0.92	YES	0.000e0	0.00000	0.56164	0.144
2,3,7,8-TCDF	25.60	4.986e3	4.700e3	3.297e2	4.222e2	0.78	NO	7.519e2	0.49254	0.49254	0.144

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-9.qld

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Penta-Furans function 1

Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Height	Area	Height
1st Func. Penta-Furans	27.58	9.580e3	7.032e3	6.094e2	4.033e2	1.51	NO	1.013e3	0.54748	0.54748	0.0571

Penta-Furans

Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Height	Area	Height
Total Penta-Furans	29.16	7.488e3	6.378e3	4.829e2	3.592e2	1.34	NO	8.421e2	0.45524	0.45524	0.120
1,2,3,7,8-PeCDF	30.18	1.180e4	5.702e3	7.263e2	4.123e2	1.76	NO	1.139e3	0.60305	0.60305	0.122
Total Penta-Furans	30.43	4.982e3	4.578e3	3.264e2	1.951e2	1.67	NO	5.214e2	0.28188	0.28188	0.120
2,3,4,7,8-PeCDF	31.15	8.429e3	4.767e3	4.692e2	2.703e2	1.74	NO	7.396e2	0.38977	0.38977	0.114
Total Penta-Furans	31.21	4.308e3	2.859e3	1.102e2	6.588e1	1.67	NO	1.761e2	0.095175	0.095175	0.120

Hexa-Furans

Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Height	Area	Height
Total Hexa-Furans	32.79	2.902e3	2.083e3	1.259e2	9.302e1	1.35	NO	2.189e2	0.14642	0.14642	0.156
Total Hexa-Furans	32.95	9.977e3	8.853e3	5.582e2	4.645e2	1.20	NO	1.023e3	0.68394	0.68394	0.156
Total Hexa-Furans	33.49	1.691e4	1.217e4	9.099e2	7.883e2	1.15	NO	1.698e3	1.1357	1.1357	0.156
1,2,3,4,7,8-HxCDF	33.96	1.248e4	1.279e4	7.471e2	6.785e2	1.10	NO	1.426e3	1.1067	1.1067	0.151
1,2,3,6,7,8-HxCDF	34.09	4.984e3	3.627e3	2.935e2	2.678e2	1.10	NO	5.613e2	0.33141	0.33141	0.143

Hepta-Furans

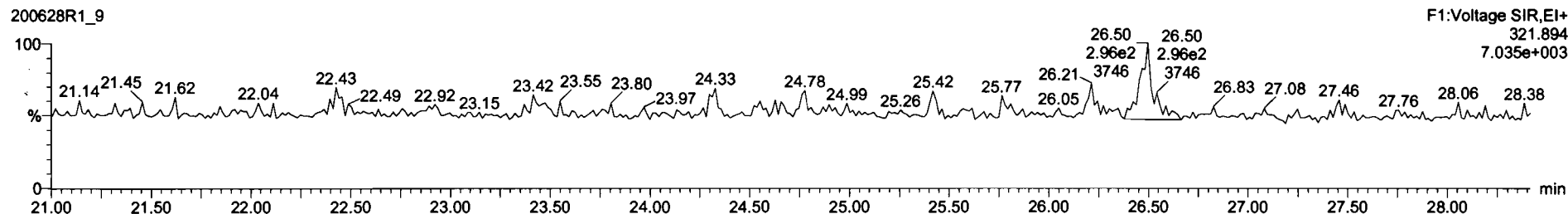
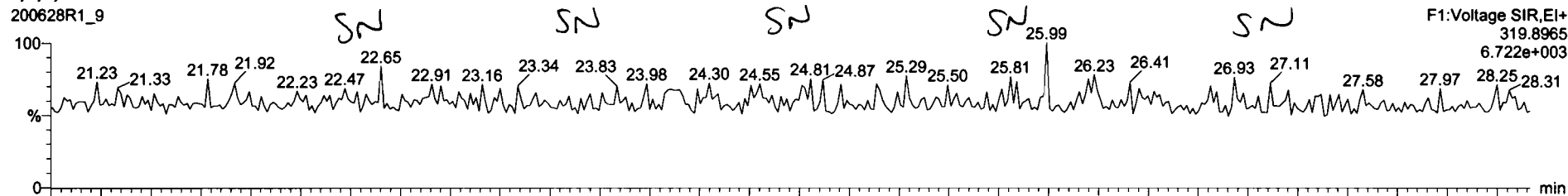
Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Height	Area	Height
1,2,3,4,6,7,8-HpCDF	37.37	1.793e4	1.688e4	1.312e3	1.241e3	1.06	NO	2.553e3	2.3168	2.3168	0.259
Total Hepta-Furans	37.97	2.880e4	2.832e4	2.521e3	2.546e3	0.99	NO	5.066e3	5.7007	5.7007	0.309

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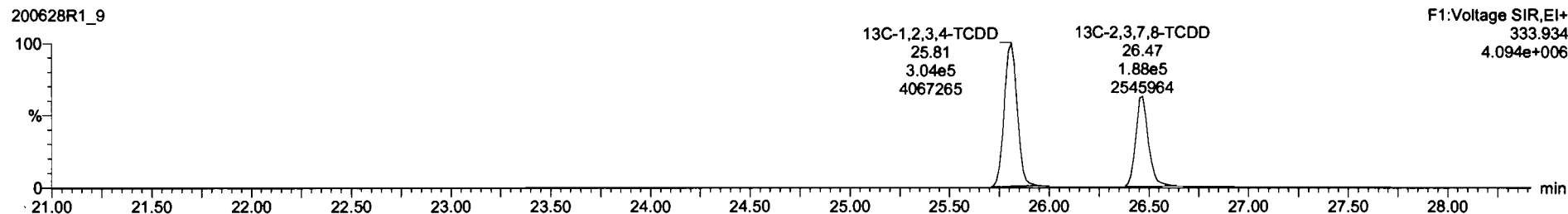
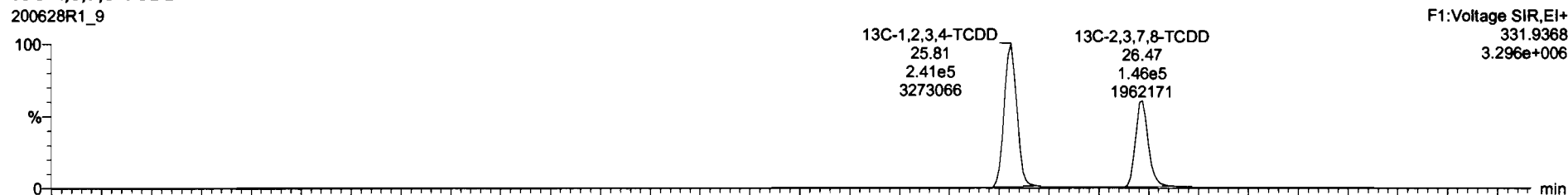
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Name: 200628R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

2,3,7,8-TCDD



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



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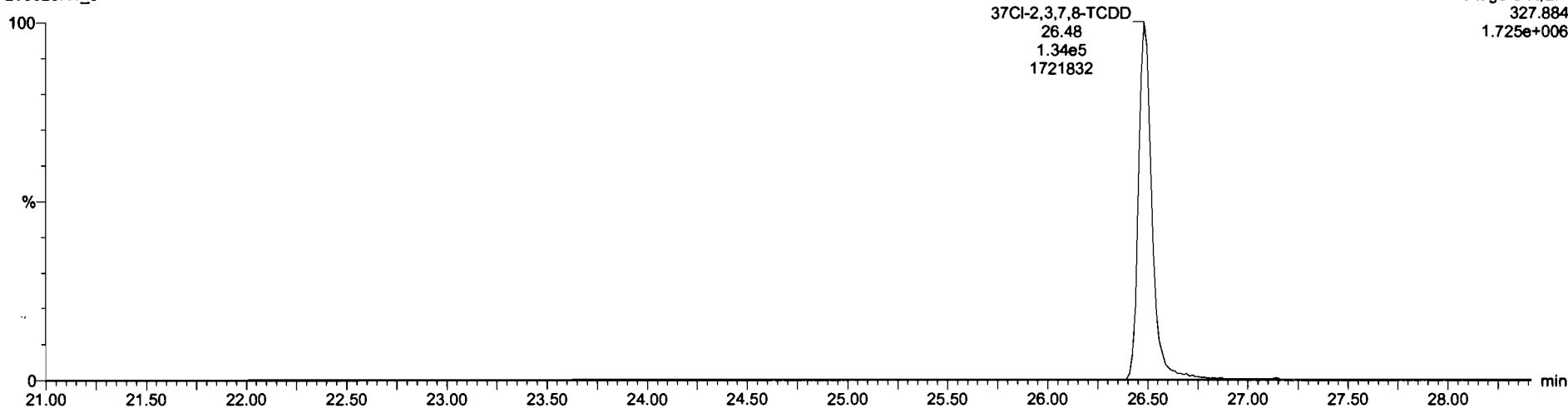
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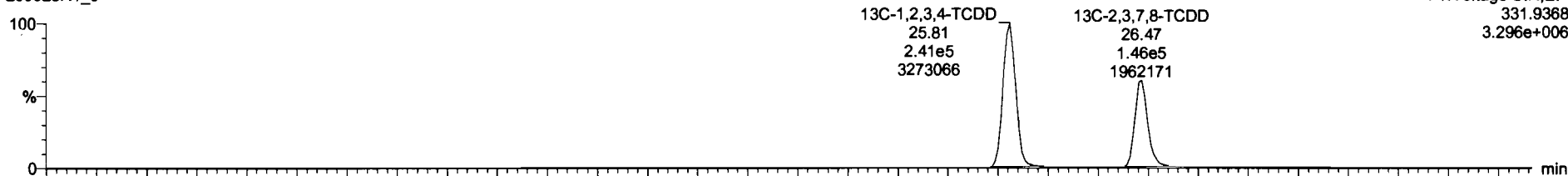
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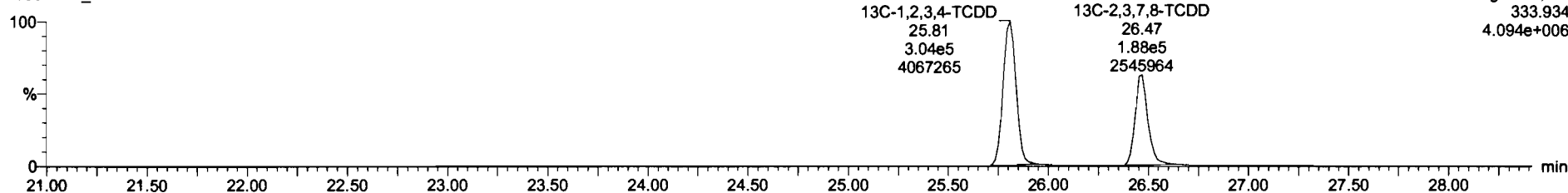


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200628R1_9



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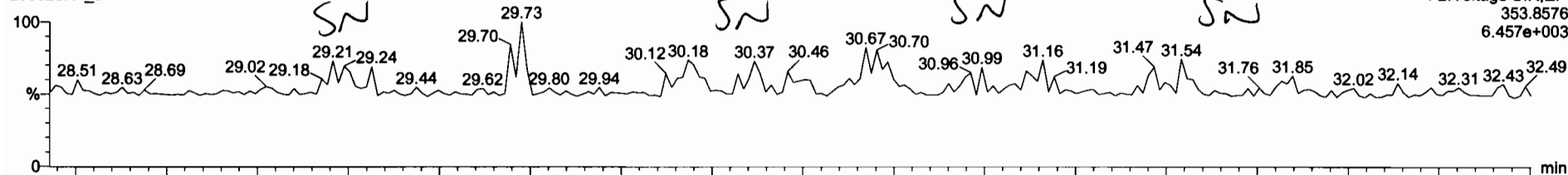
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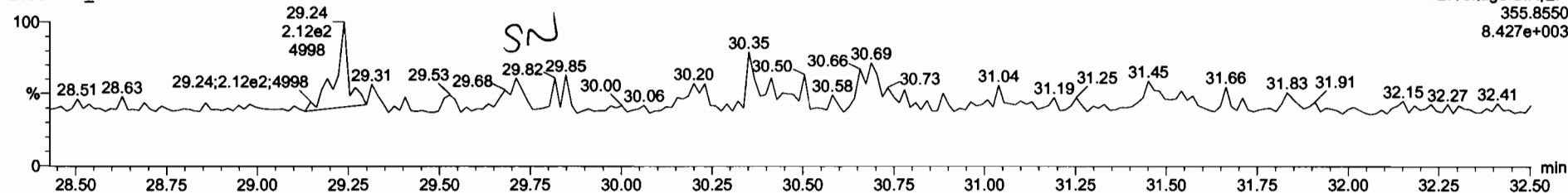
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1,2,3,7,8-PeCDD

200628R1_9

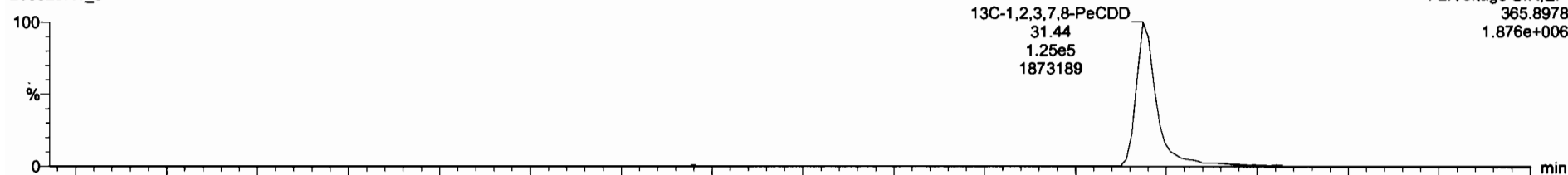


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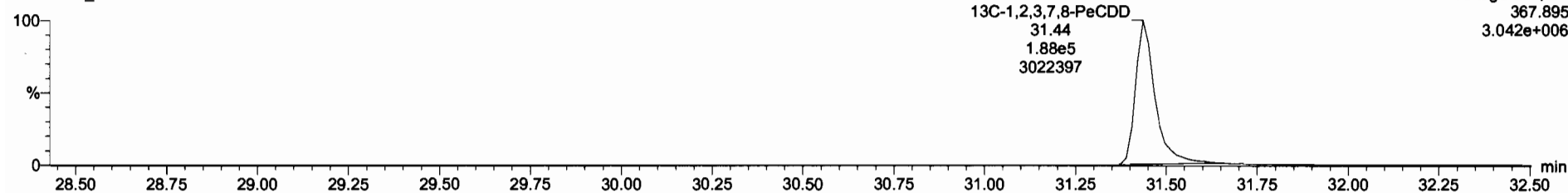


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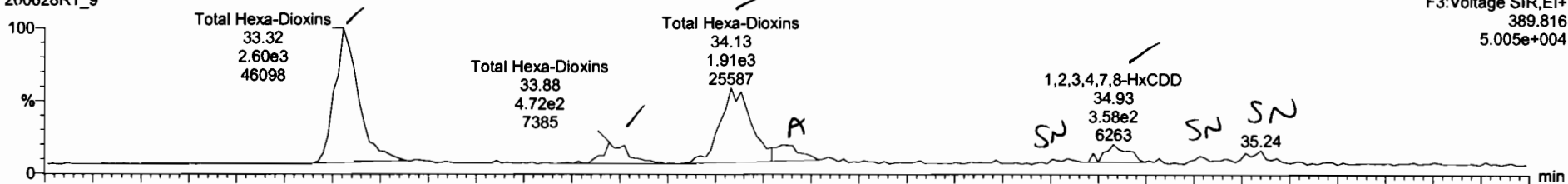
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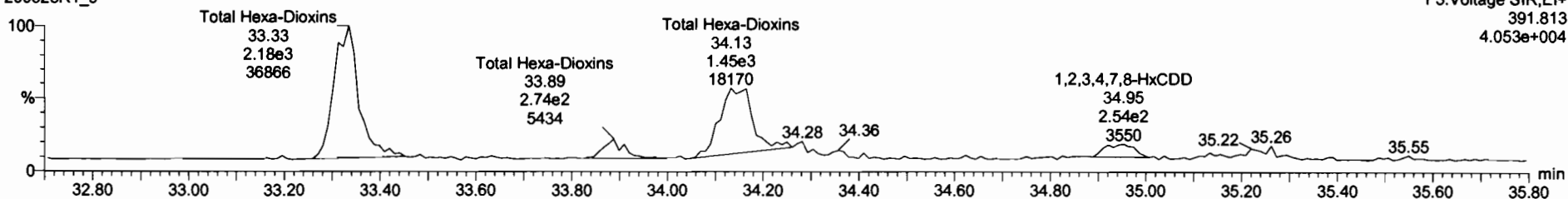
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1,2,3,4,7,8-HxCDD

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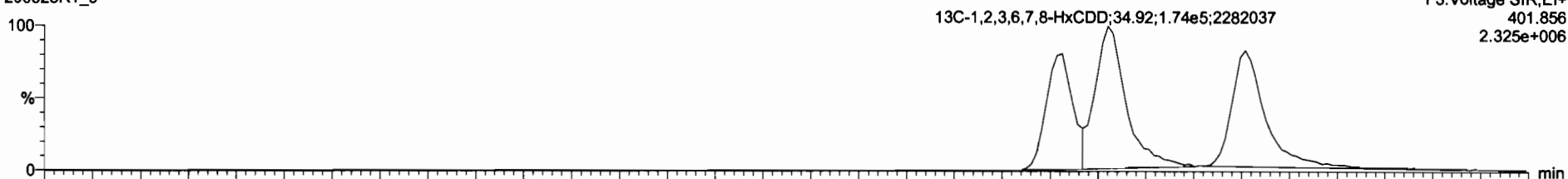


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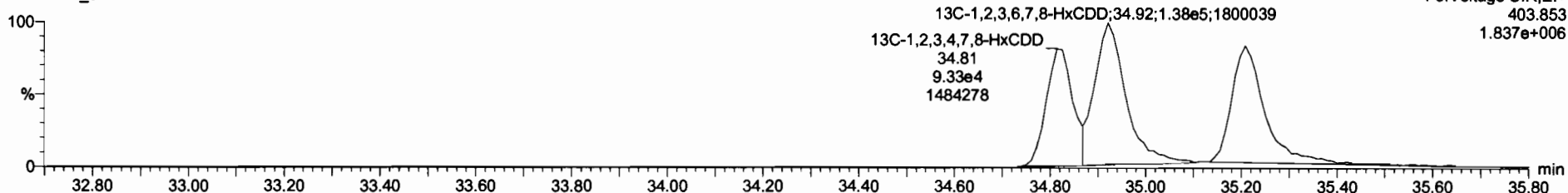


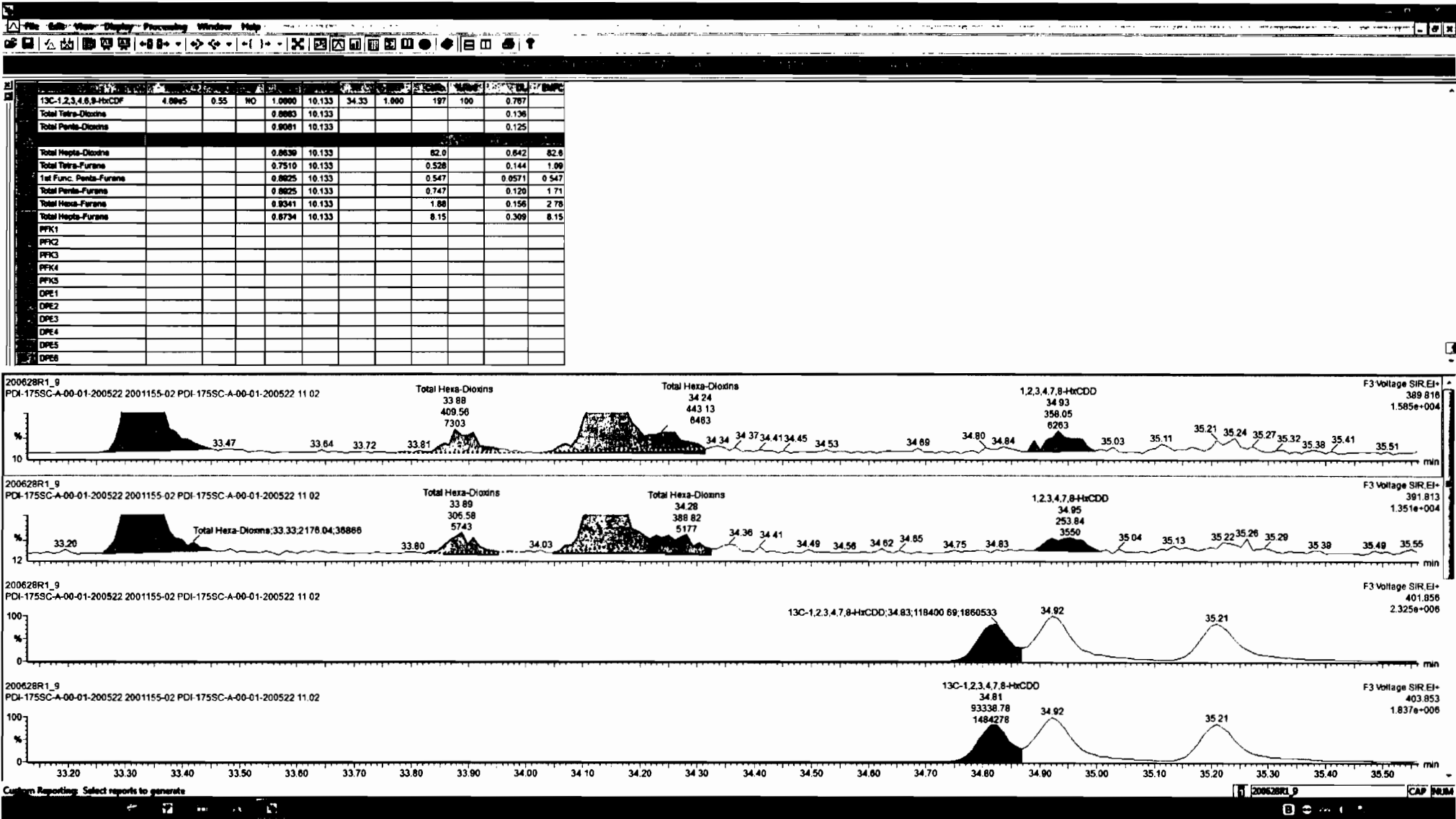
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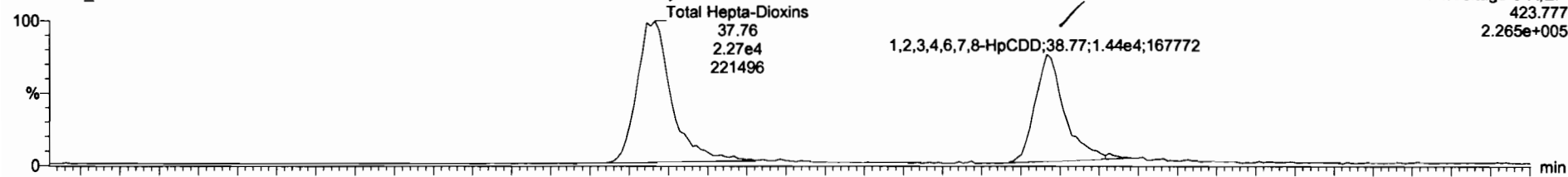
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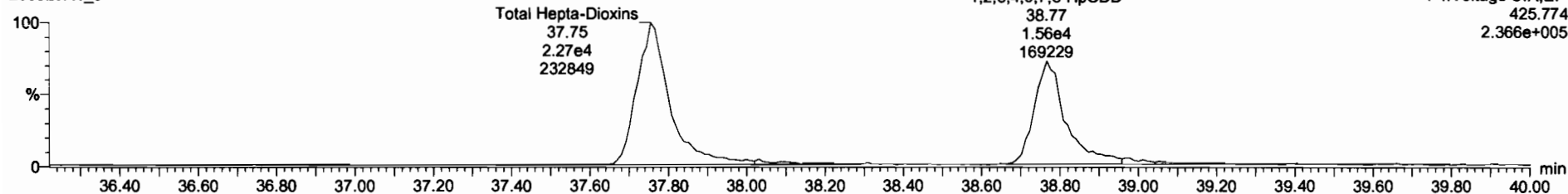
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1,2,3,4,6,7,8-HpCDD

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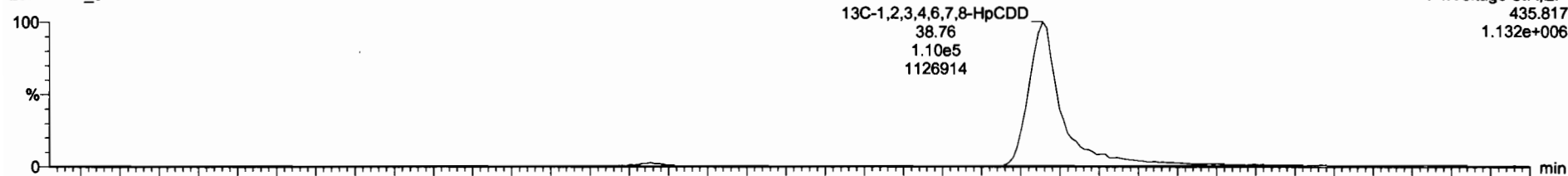


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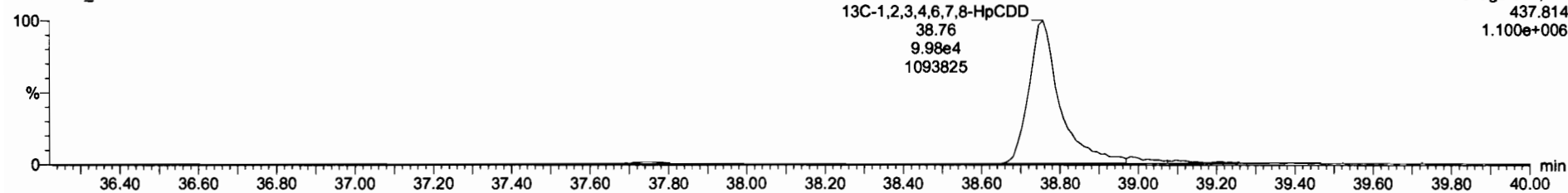


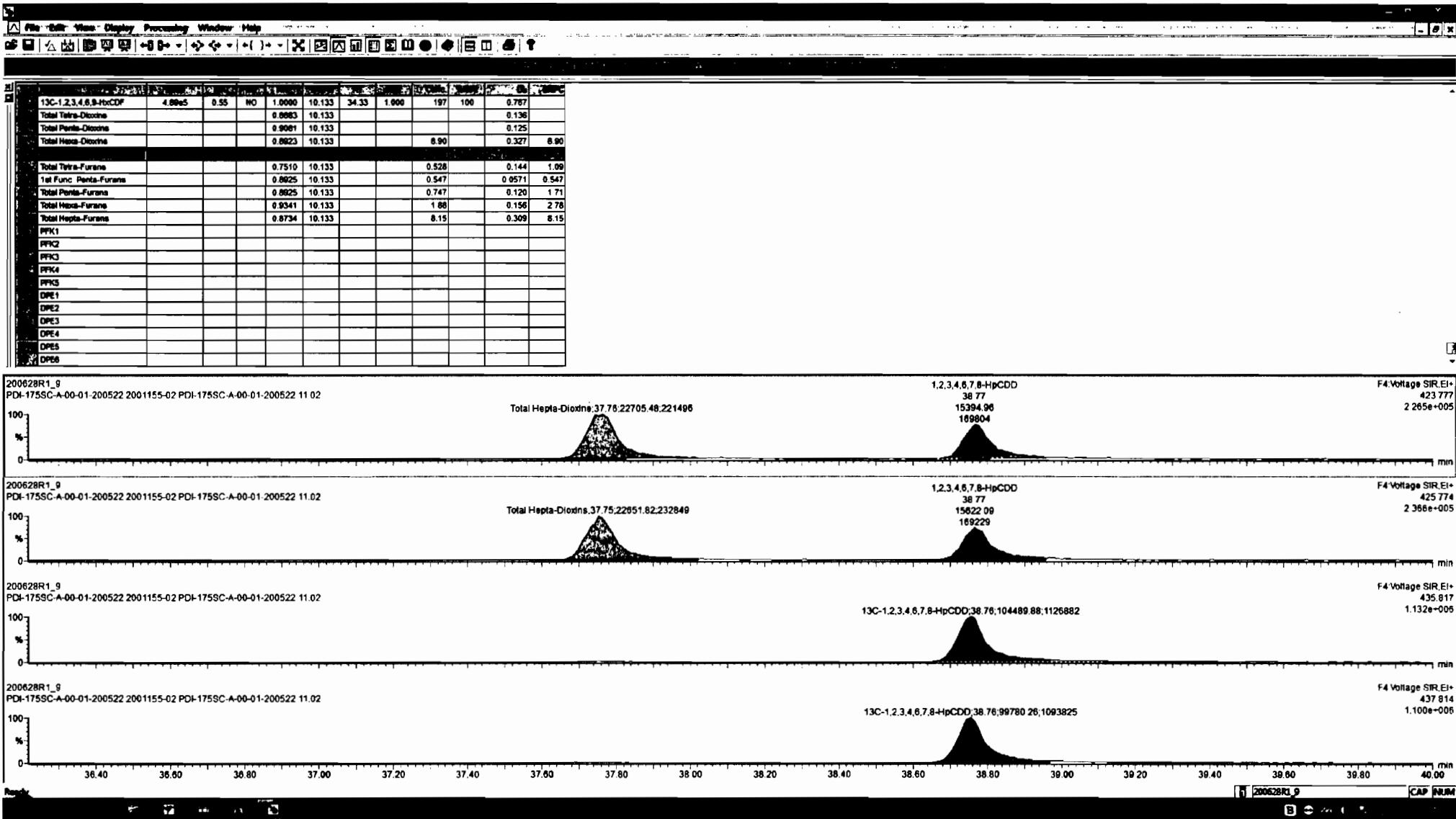
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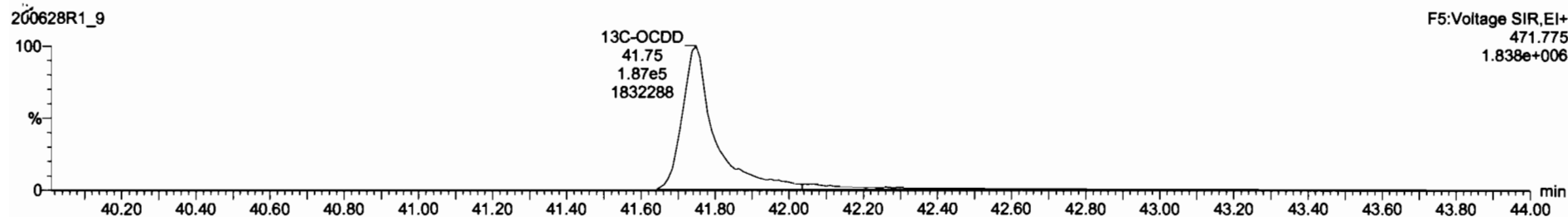
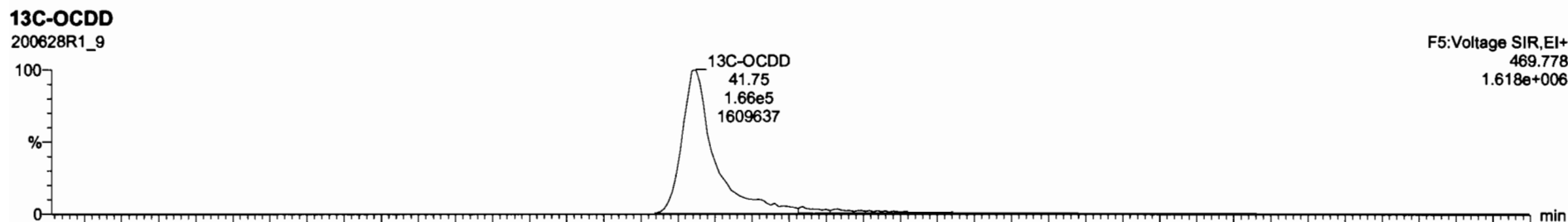
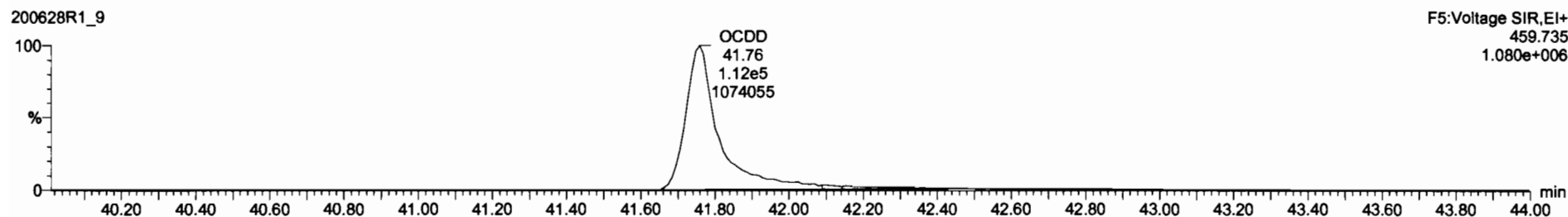
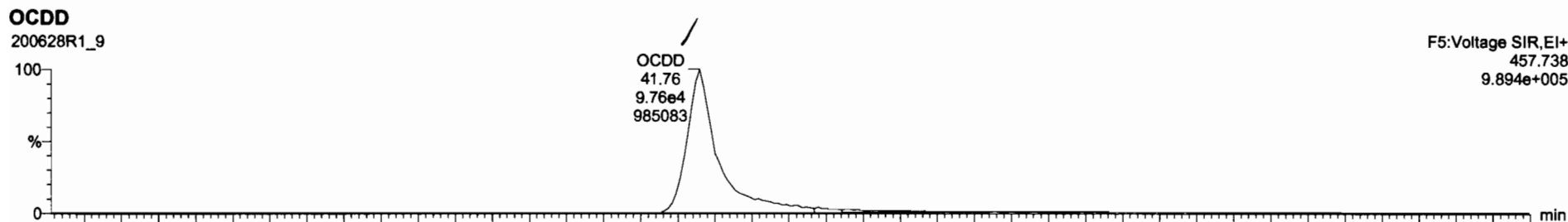




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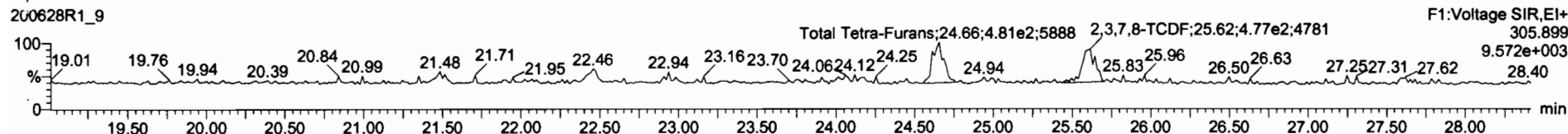
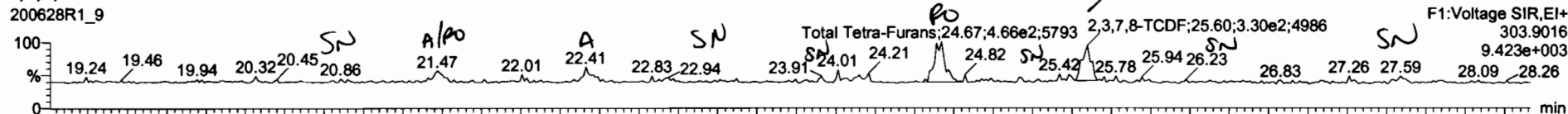


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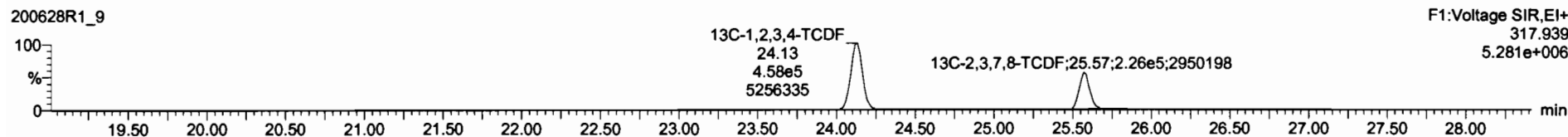
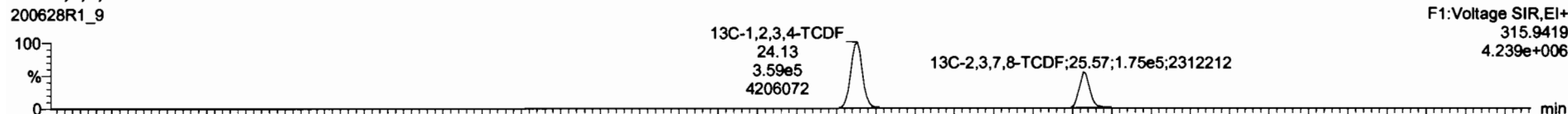
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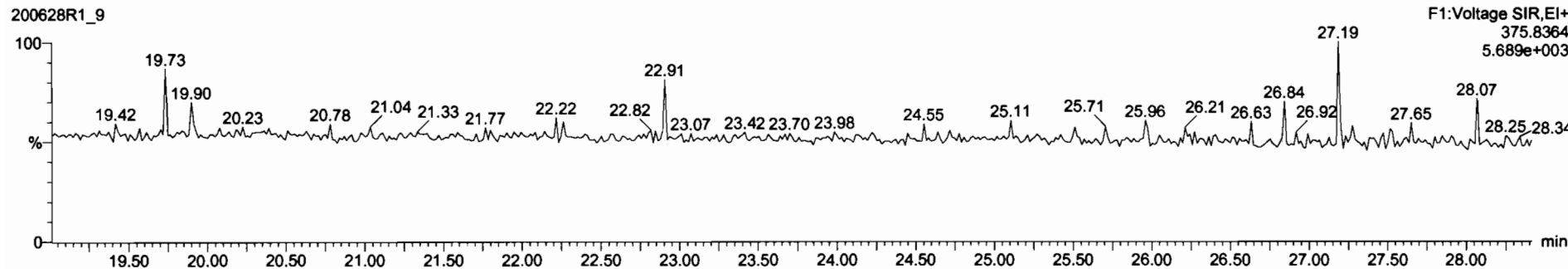
2,3,7,8-TCDF



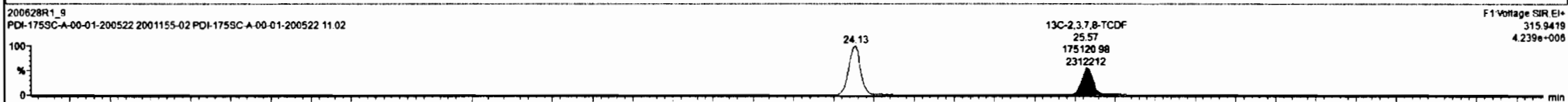
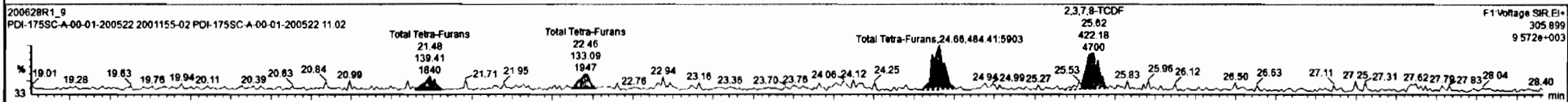
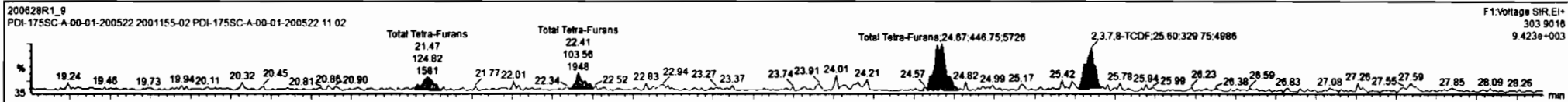
13C-2,3,7,8-TCDF



DPE1



Sample	Concentration	Area	Height	Width	Retention	Response	Integration	Integration	Integration	Integration	Integration
13C-1,2,3,4,6,8-HxCDF	4.88e5	0.55	NO	1.0000	10.133	34.33	1.900	197	100	0.767	
Total Tetra-Dioxins				0.8683	10.133					0.136	
Total Penta-Dioxins				0.9061	10.133					0.125	
Total Hexa-Dioxins				0.8623	10.133			8.90		0.327	8.90
Total Hepta-Dioxins				0.8639	10.133			85.4		0.826	85.4
1st Func. Penta-Furans				0.8625	10.133			0.547		0.0571	0.547
Total Penta-Furans				0.8625	10.133			0.747		0.120	1.71
Total Hexa-Furans				0.9341	10.133			1.88		0.156	2.78
Total Hepta-Furans				0.8734	10.133			8.15		0.309	8.15
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



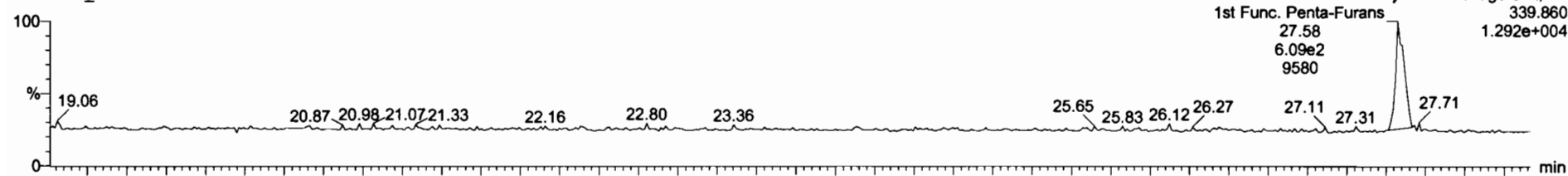
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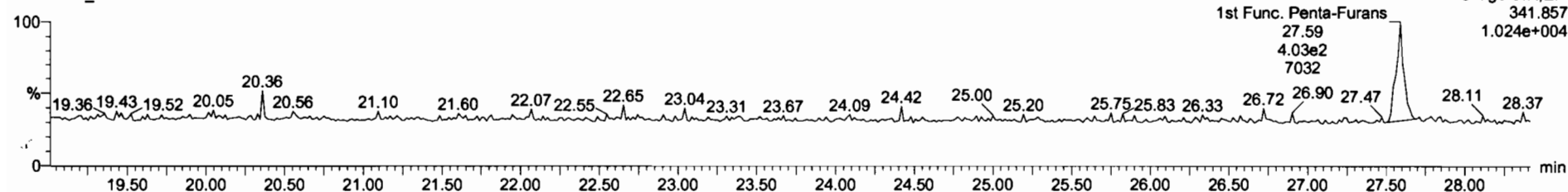
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1st Func. Penta-Furans

200628R1_9

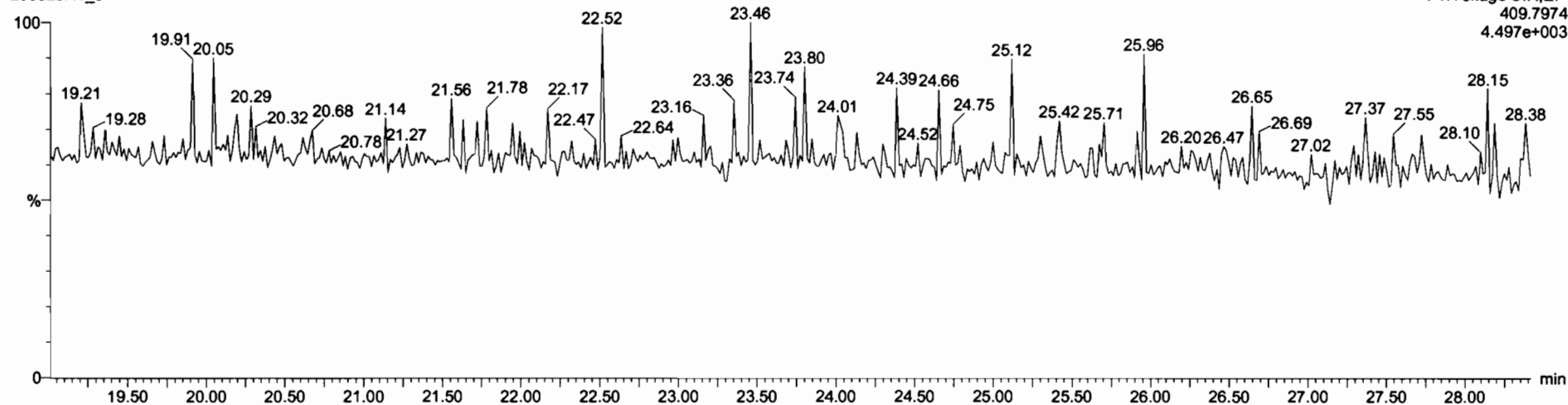


200628R1_9



DPE6

200628R1_9



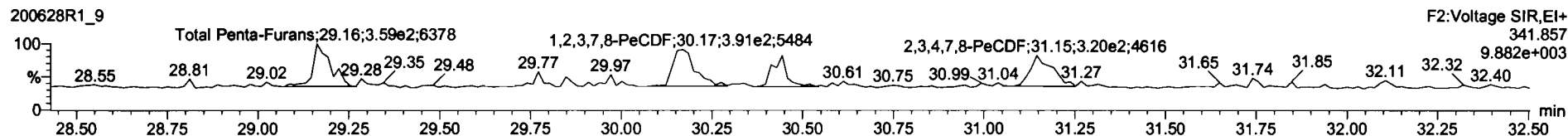
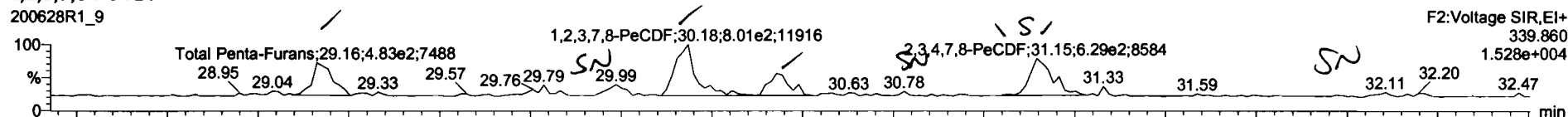
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Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time

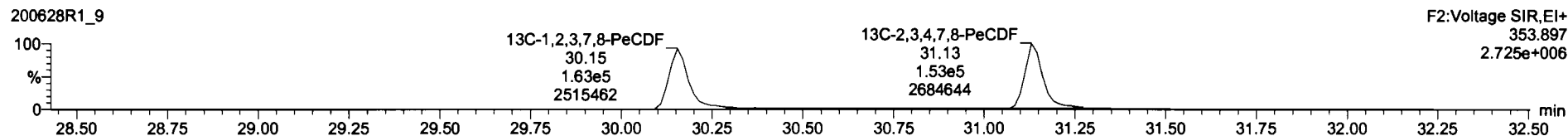
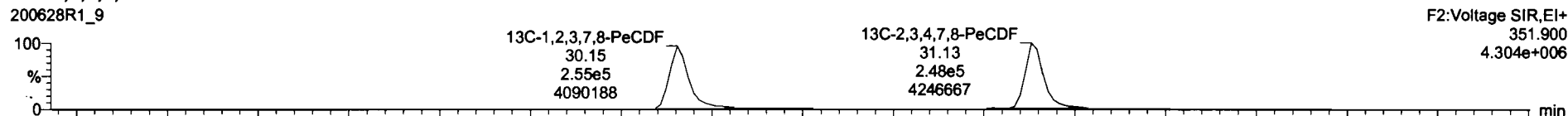
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

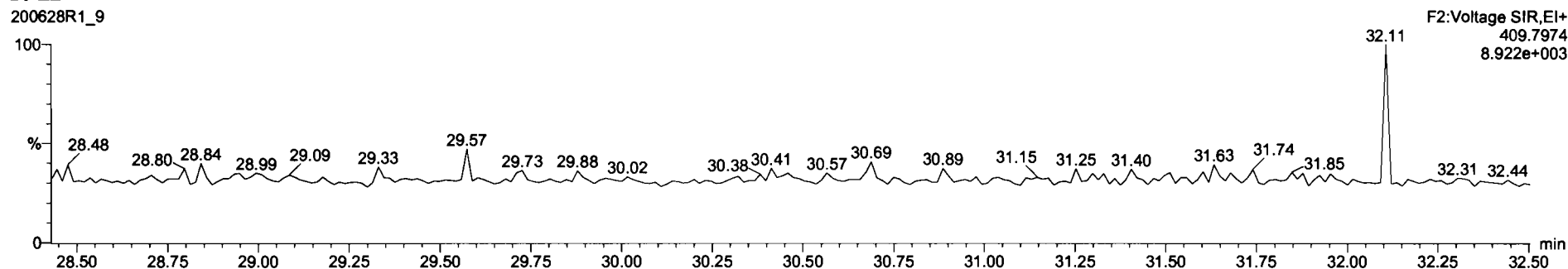
1,2,3,7,8-PeCDF

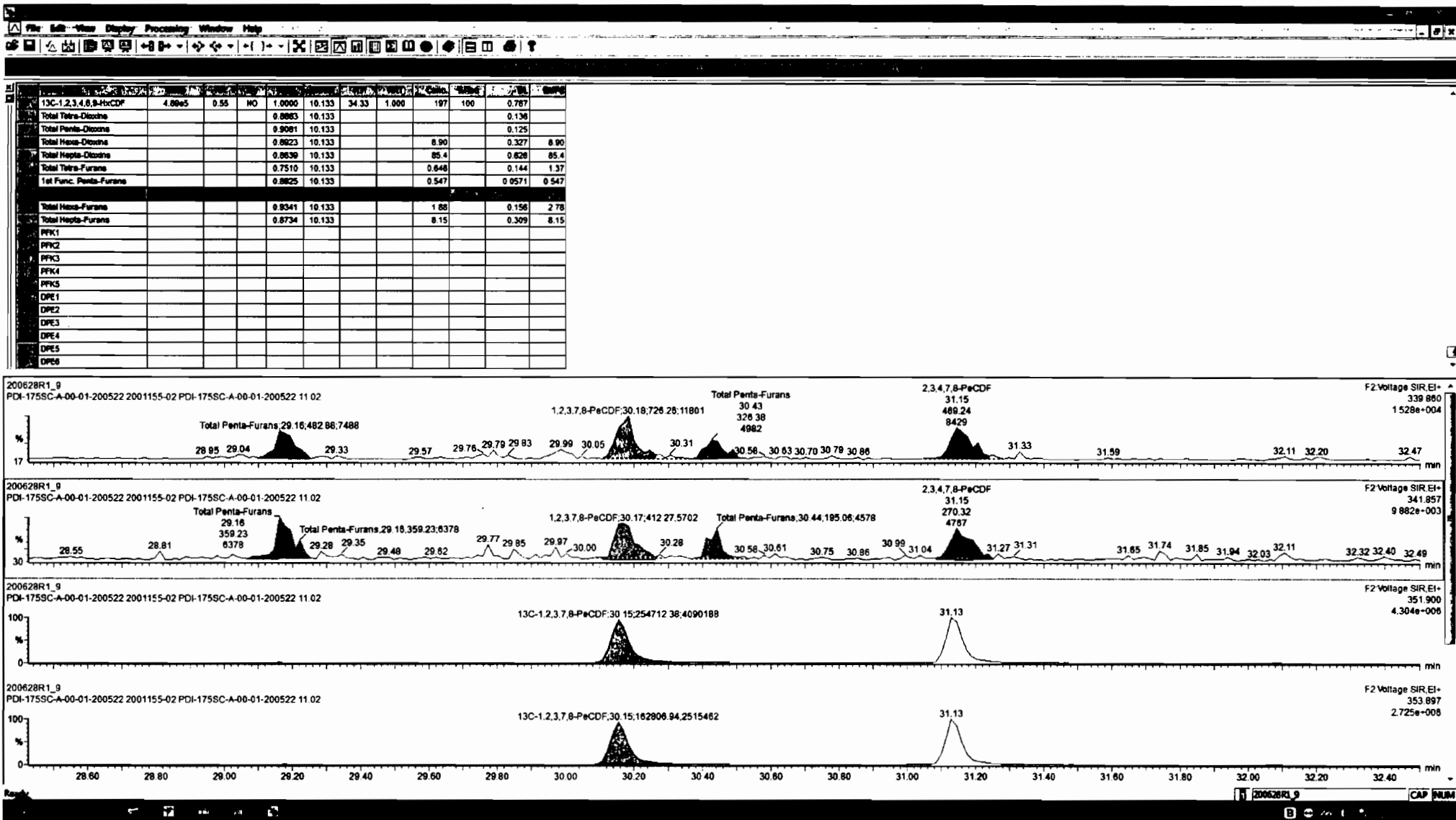


13C-1,2,3,7,8-PeCDF



DPE2



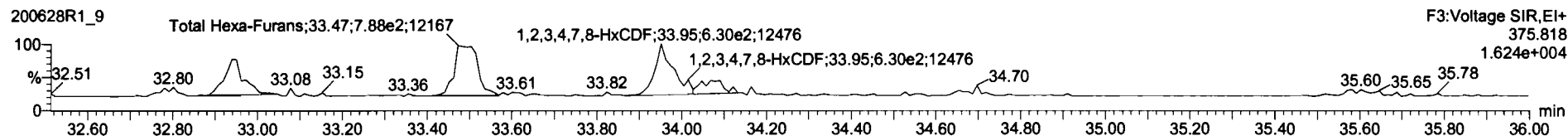
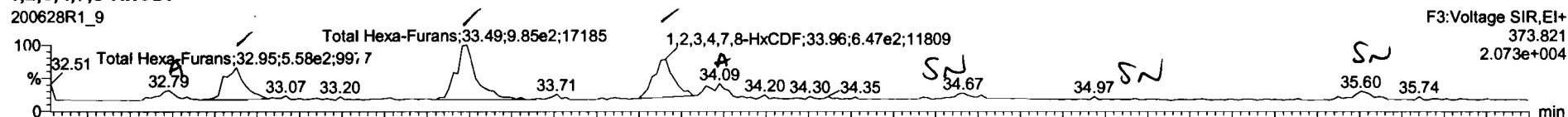


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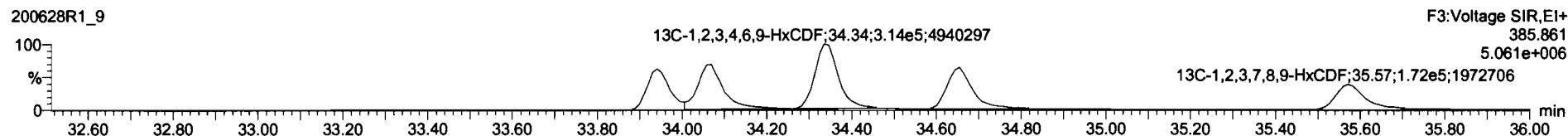
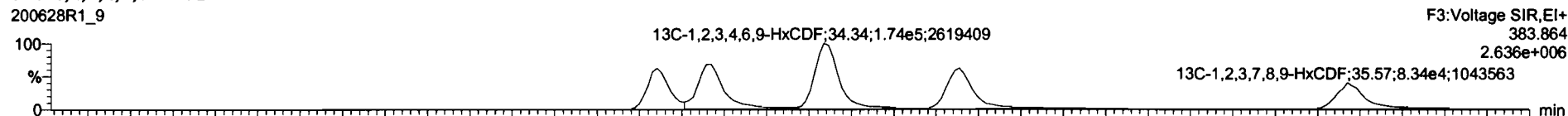
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Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

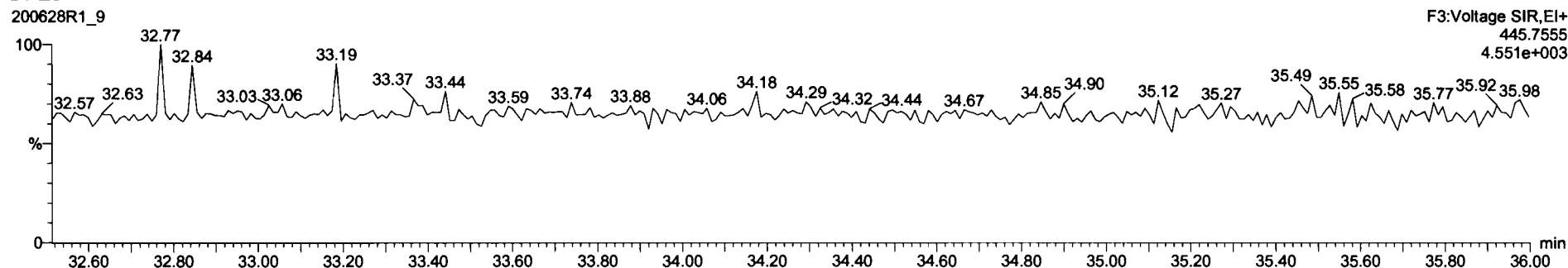
1,2,3,4,7,8-HxCDF

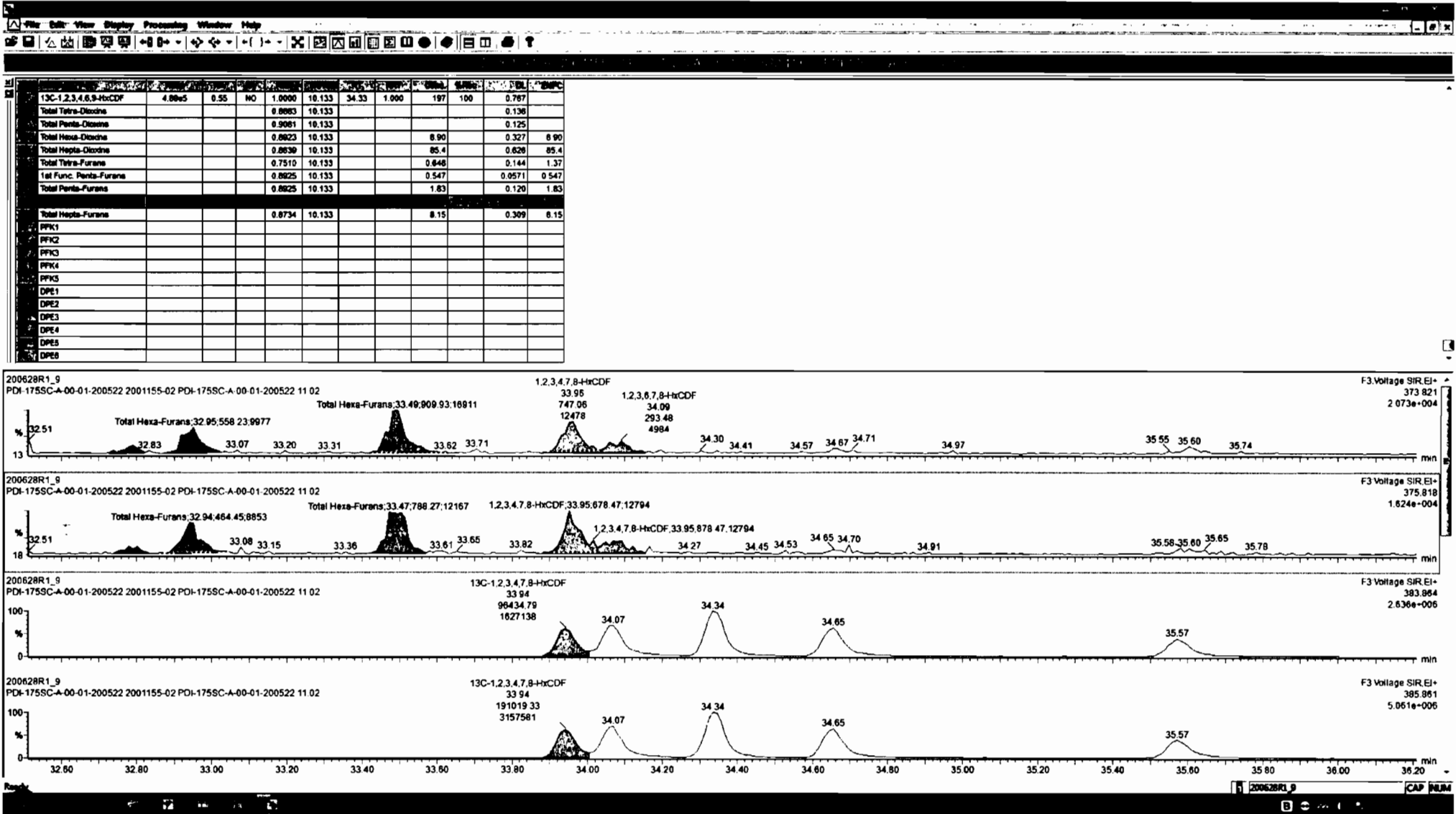


13C-1,2,3,4,7,8-HxCDF



DPE3





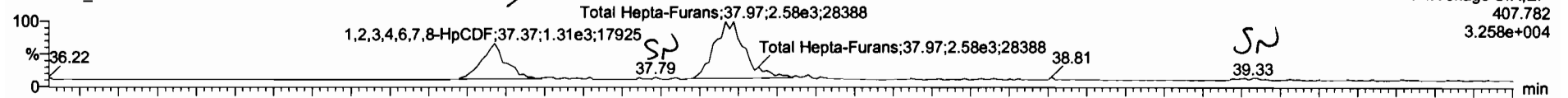
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Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

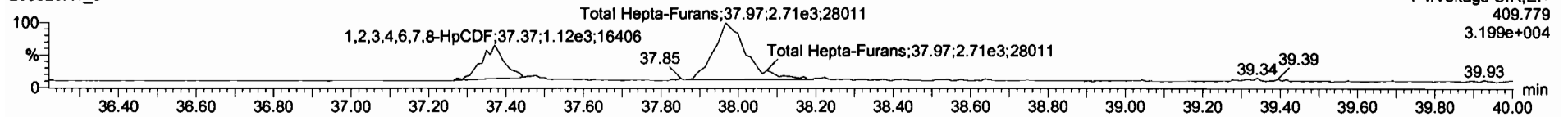
Name: 200628R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

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

200628R1_9

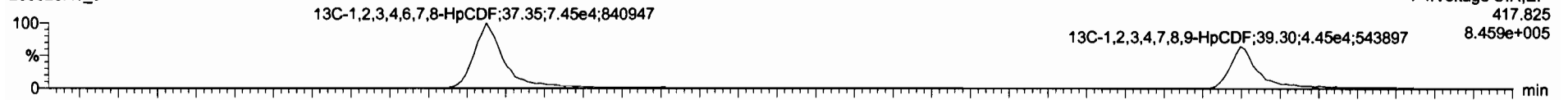


200628R1_9

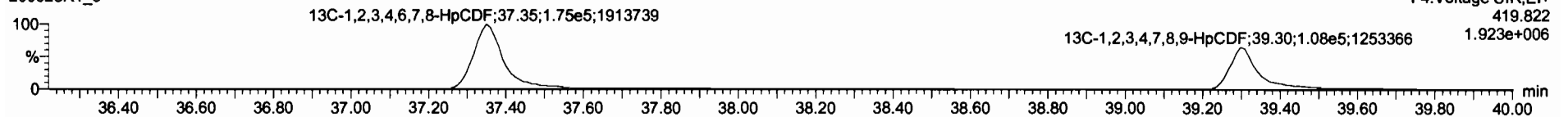


13C-1,2,3,4,6,7,8-HpCDF

200628R1_9

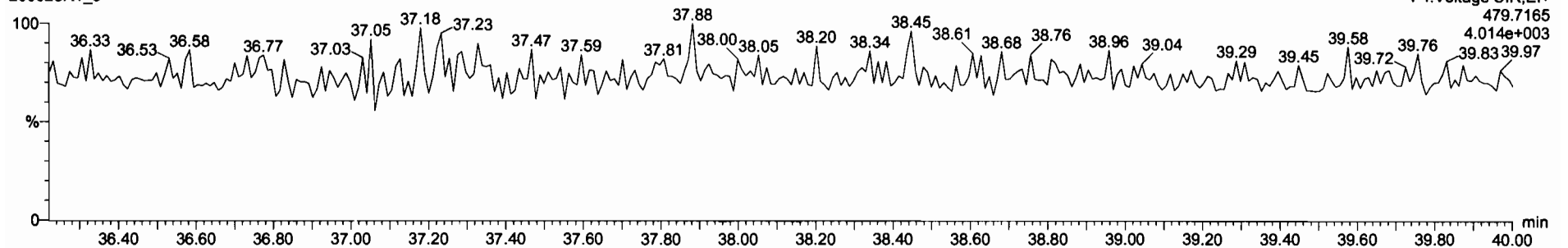


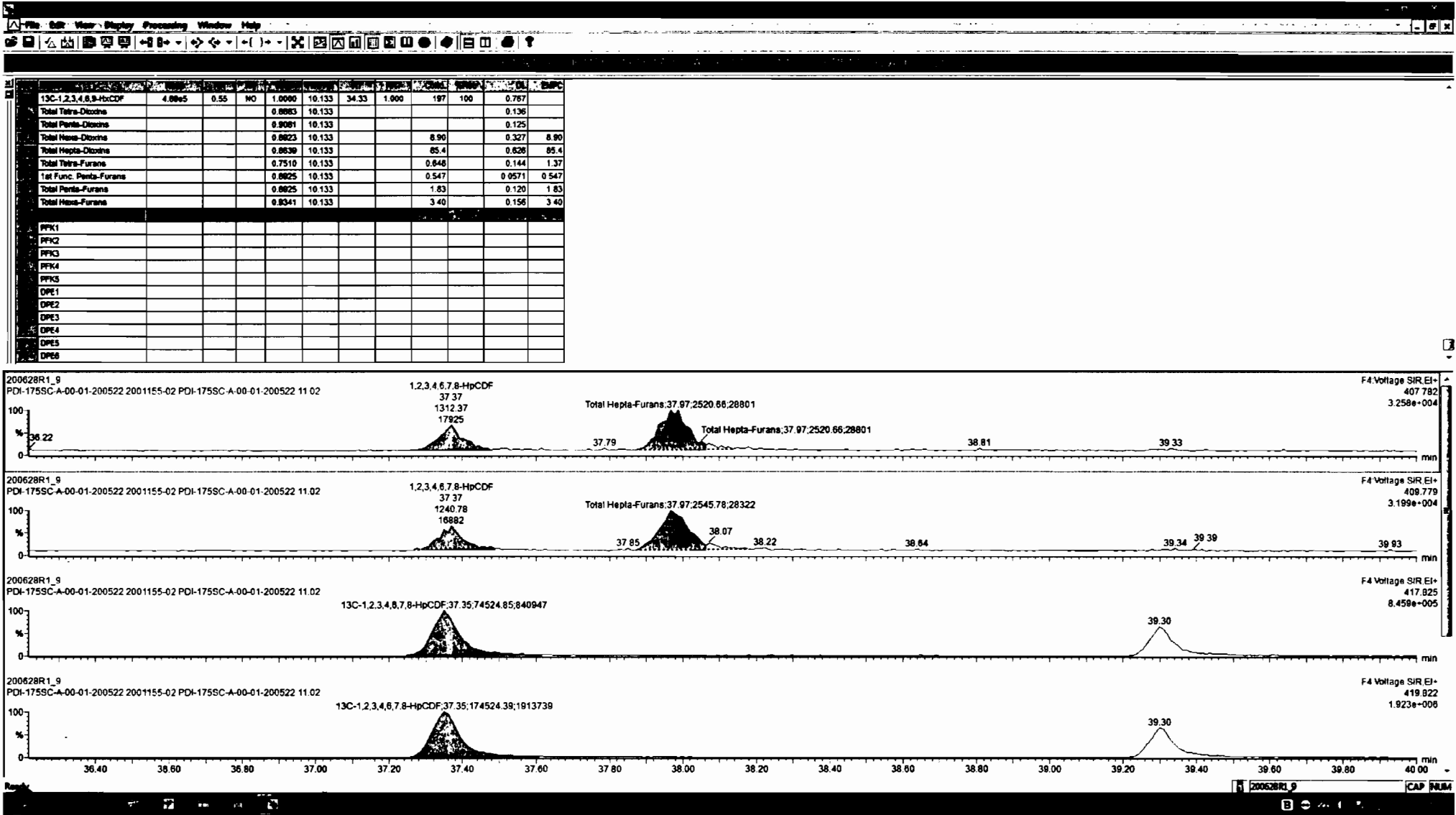
200628R1_9



DPE4

200628R1_9

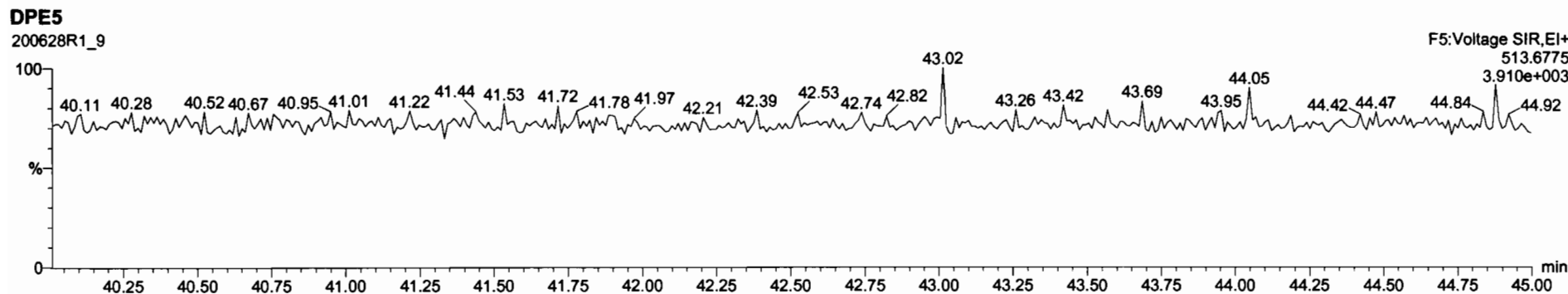
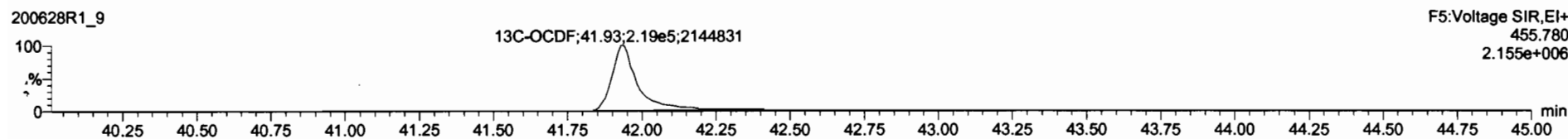
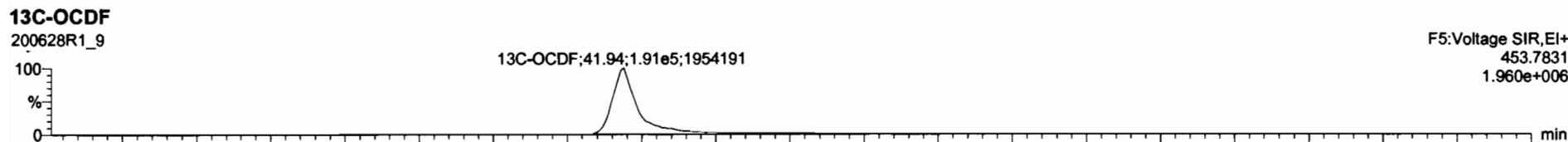
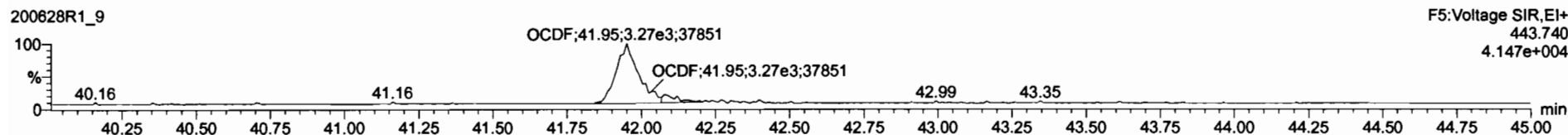
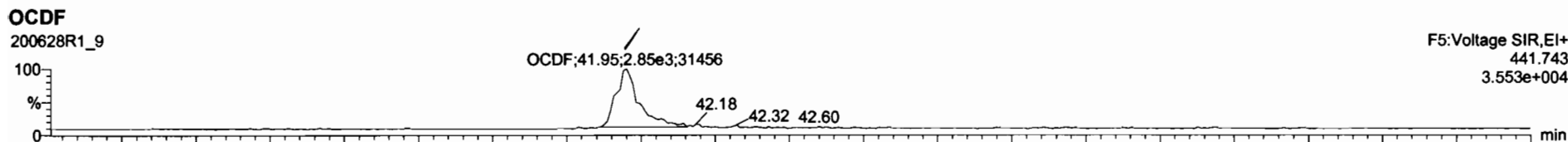




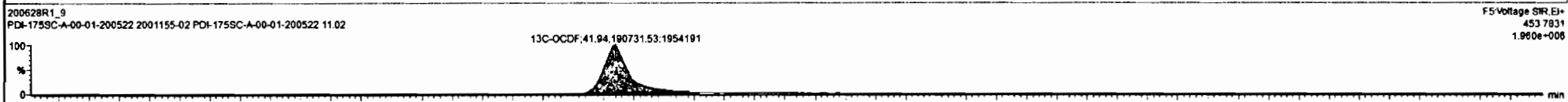
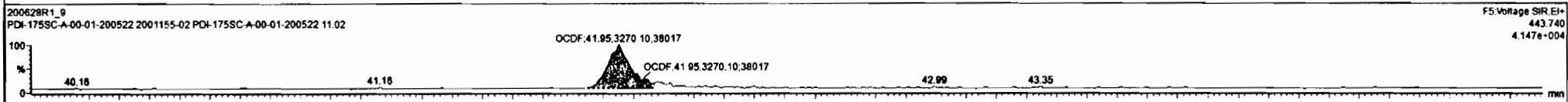
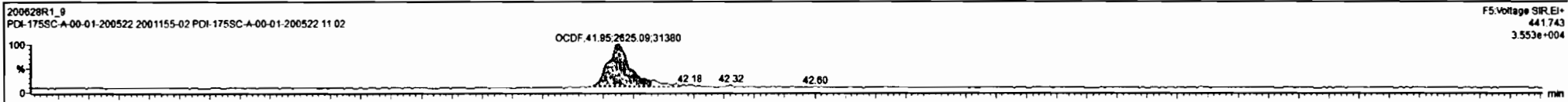
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Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522



Compound	Concentration	Response	Method	Retention	Area	Height	Width	Area%	Height%
2,3,7,8-TCDD			NO	0.0003	10.133				0.290
1,2,3,7,8-PeCDD			NO	0.0001	10.133				0.277
1,2,3,4,7,8-HxCDD	6.12e2	1.41	NO	1.0334	10.133	34.83	1.003	0.552	0.304
1,2,3,6,7,8-HxCDD			NO	0.0023	10.133				0.287
1,2,3,7,8,9-HxCDD			NO	0.0009	10.133				0.357
1,2,3,4,6,7,8-HpCDD	3.00e4	0.92	NO	0.0030	10.133	36.77	1.000	32.7	0.642
OCDD	2.00e5	0.87	NO	0.0138	10.133	41.78	1.000	257	1.84
2,3,7,8-TCDF	8.07e2	0.89	NO	0.7510	10.133	25.60	1.001	0.528	0.144
1,2,3,7,8-PeCDF	1.19e3	2.95	YES	0.0025	10.133	30.18	1.001	0.631	0.122
2,3,4,7,8-PeCDF	9.49e2	1.98	YES	0.0348	10.133	31.15	1.001	0.500	0.114
1,2,3,4,7,8-HxCDF	1.28e3	1.03	YES	0.0645	10.133	33.96	1.001	0.991	0.151
1,2,3,6,7,8-HxCDF			NO	0.0002	10.133				0.143
2,3,4,6,7,8-HxCDF			NO	0.0341	10.133				0.144
1,2,3,7,8,9-HxCDF			NO	0.0707	10.133				0.233
1,2,3,4,6,7,8-HpCDF	2.43e3	1.18	NO	0.0734	10.133	37.37	1.001	2.20	0.299
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.133				0.330
13C-2,3,7,8-TCDD	3.34e5	0.78	NO	1.1583	10.133	26.47	1.028	105	53.1
13C-1,2,3,7,8-PeCDD	3.13e5	0.68	NO	0.8480	10.133	31.43	1.218	133	67.6
13C-1,2,3,4,7,8-HxCDD	2.12e5	1.27	NO	0.7790	10.133	34.83	1.014	110	55.6
13C-1,2,3,6,7,8-HxCDD	3.11e5	1.28	NO	1.0187	10.133	34.92	1.017	124	62.7

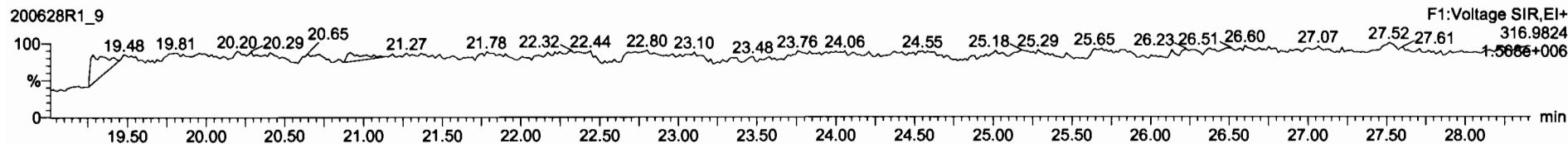


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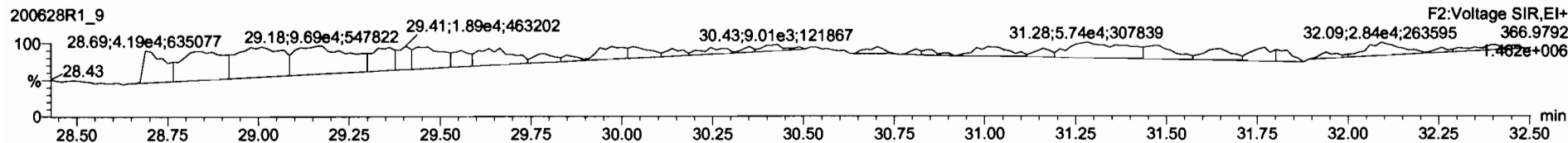
Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

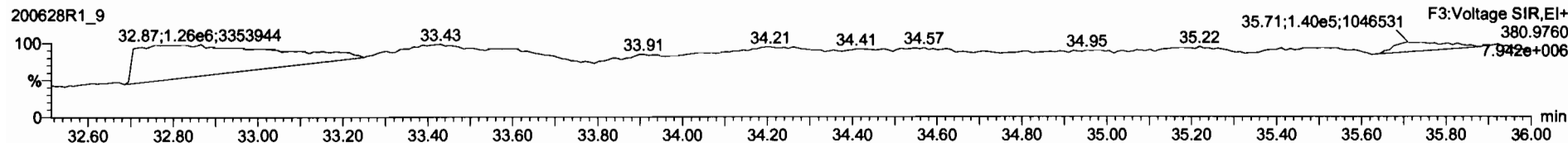
PrK1



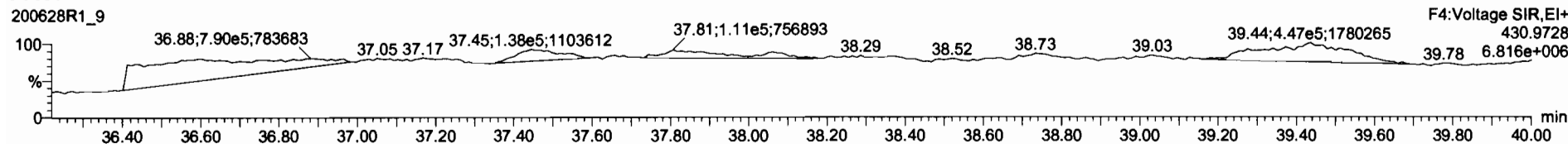
PFK2



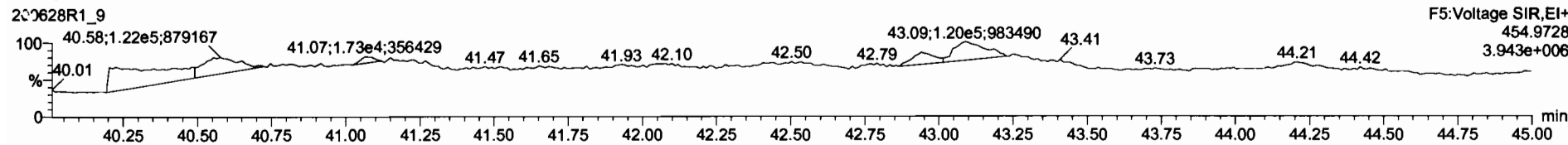
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200628R1\200628R1-10.qld

Last Altered: Monday, July 06, 2020 2:48:01 PM Pacific Daylight Time
Printed: Monday, July 06, 2020 3:00:18 PM Pacific Daylight Time

GPB 07/06/2020

07/09/2020

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: 200628R1_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522

Comp	RA	Hy	RRF	WVol	Prod RT	EF						
1 2,3,7,8-TCDD		NO	0.888	10.017	26.501	1.001					0.146	
2 1,2,3,7,8-PeCDD		NO	0.908	10.017	31.473	1.001					0.155	
3 1,2,3,4,7,8-HxCDD		NO	1.03	10.017	34.835	1.000					0.198	
4 1,2,3,6,7,8-HxCDD	7.84e2	1.26	NO	0.892	10.017	34.932	34.94	1.000	1.000	0.45197	0.197	0.452
5 1,2,3,7,8,9-HxCDD		NO	0.887	10.017	35.230	1.000					0.241	
6 1,2,3,4,6,7,8-HpCDD	1.68e4	0.94	NO	0.864	10.017	38.767	38.78	1.000	1.001	16.590	0.490	16.6
7 OCDD	1.19e5	0.83	NO	0.914	10.017	41.759	41.77	1.000	1.000	142.40	1.13	142
8 2,3,7,8-TCDF	8.45e2	0.76	NO	0.751	10.017	25.596	25.60	1.001	1.001	0.44843	0.120	0.448
9 1,2,3,7,8-PeCDF	3.33e3	1.75	NO	0.893	10.017	30.175	30.17	1.001	1.000	1.3286	0.127	1.33
10 2,3,4,7,8-PeCDF	1.20e3	1.40	NO	0.935	10.017	31.154	31.16	1.000	1.000	0.47363	0.113	0.474
11 1,2,3,4,7,8-HxCDF	2.61e4	1.22	NO	0.884	10.017	33.952	33.96	1.000	1.000	16.363	0.262	16.4
12 1,2,3,6,7,8-HxCDF	1.14e4	1.20	NO	0.889	10.017	34.079	34.08	1.000	1.000	5.8385	0.233	5.84
13 2,3,4,6,7,8-HxCDF	1.59e3	1.19	NO	0.934	10.017	34.700	34.68	1.001	1.000	0.87356	0.271	0.874
14 1,2,3,7,8,9-HxCDF	6.58e2	1.19	NO	0.871	10.017	35.571	35.61	1.000	1.001	0.49648	0.450	0.496
15 1,2,3,4,6,7,8-HpCDF	1.50e4	1.03	NO	0.873	10.017	37.386	37.37	1.001	1.001	12.082	0.323	12.1
16 1,2,3,4,7,8,9-HpCDF	2.36e3	0.96	NO	1.01	10.017	39.298	39.31	1.000	1.000	2.5943	0.402	2.59
17 OCDF	8.47e3	0.82	NO	0.806	10.017	41.950	41.96	1.000	1.000	9.7064	0.447	9.71
18 13C-2,3,7,8-TCDD	4.52e5	0.80	NO	1.16	10.017	26.491	26.47	1.026	1.026	146.50	73.4	0.357
19 13C-1,2,3,7,8-PeCDD	4.10e5	0.66	NO	0.849	10.017	31.674	31.45	1.227	1.219	180.86	90.6	0.458
20 13C-1,2,3,4,7,8-HxCDD	2.74e5	1.27	NO	0.779	10.017	34.830	34.83	1.014	1.014	147.78	74.0	0.732
21 13C-1,2,3,6,7,8-HxCDD	3.88e5	1.27	NO	1.02	10.017	34.944	34.93	1.017	1.017	160.50	80.4	0.561
22 13C-1,2,3,7,8,9-HxCDD	3.52e5	1.28	NO	0.903	10.017	35.215	35.22	1.025	1.025	163.85	82.1	0.632
23 13C-1,2,3,4,6,7,8-HpCDD	2.34e5	1.08	NO	0.689	10.017	38.739	38.76	1.128	1.128	142.72	71.5	0.544
24 13C-OCDD	3.64e5	0.86	NO	0.652	10.017	41.761	41.76	1.216	1.216	234.62	58.8	1.19
25 13C-2,3,7,8-TCDF	5.01e5	0.78	NO	1.06	10.017	25.534	25.57	0.989	0.991	118.51	59.4	0.496
26 13C-1,2,3,7,8-PeCDF	5.60e5	1.60	NO	0.838	10.017	30.058	30.15	1.165	1.168	167.41	83.8	0.981
27 13C-2,3,4,7,8-PeCDF	5.41e5	1.59	NO	0.817	10.017	31.011	31.15	1.202	1.207	166.09	83.2	1.01
28 13C-1,2,3,4,7,8-HxCDF	3.60e5	0.51	NO	1.01	10.017	33.961	33.95	0.989	0.988	150.28	75.3	0.967
29 13C-1,2,3,6,7,8-HxCDF	4.40e5	0.51	NO	1.17	10.017	34.085	34.07	0.992	0.992	158.47	79.4	0.835
30 13C-2,3,4,6,7,8-HxCDF	3.90e5	0.52	NO	1.02	10.017	34.659	34.67	1.009	1.009	160.38	80.3	0.954
31 13C-1,2,3,7,8,9-HxCDF	3.04e5	0.50	NO	0.860	10.017	35.558	35.57	1.035	1.036	148.69	74.5	1.13

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-10.qld

Last Altered: Monday, July 06, 2020 2:48:01 PM Pacific Daylight Time

Printed: Monday, July 06, 2020 3:00:18 PM Pacific Daylight Time

Name: 200628R1_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522

	BA	RF	RRF										
32	13C-1,2,3,4,6,7,8-HpCDF	2.83e5	0.42	NO	0.774	10.017	37.307	37.35	1.086	1.087	153.65	77.0	0.924
33	13C-1,2,3,4,7,8,9-HpCDF	1.79e5	0.42	NO	0.521	10.017	39.336	39.30	1.145	1.144	144.51	72.4	1.37
34	13C-OCDF	4.32e5	0.87	NO	0.746	10.017	41.933	41.95	1.221	1.221	243.59	61.0	0.749
35	37Cl-2,3,7,8-TCDD	1.70e5			1.04	10.017	26.522	26.50	1.028	1.027	61.266	76.7	0.127
36	13C-1,2,3,4-TCDD	5.33e5	0.78	NO	1.00	10.017	25.890	25.81	1.000	1.000	199.67	100	0.412
37	13C-1,2,3,4-TCDF	7.97e5	0.79	NO	1.00	10.017	24.360	24.12	1.000	1.000	199.67	100	0.526
38	13C-1,2,3,4,6,9-HxCDF	4.75e5	0.51	NO	1.00	10.017	34.420	34.35	1.000	1.000	199.67	100	0.974
39	Total Tetra-Dioxins				0.888	10.017	24.620		0.000				0.0887
40	Total Penta-Dioxins				0.908	10.017	29.960		0.000				0.0732
41	Total Hexa-Dioxins				0.892	10.017	33.635		0.000		4.2978		0.221 4.30
42	Total Hepta-Dioxins				0.864	10.017	37.640		0.000		38.999		0.490 39.0
43	Total Tetra-Furans				0.751	10.017	23.610		0.000		1.4623		0.120 1.46
44	1st Func. Penta-Furans				0.893	10.017	27.580		0.000		0.95916		0.0414 0.959
45	Total Penta-Furans				0.893	10.017	29.275		0.000		3.2334		0.123 3.23
46	Total Hexa-Furans				0.934	10.017	33.555		0.000		27.360		0.281 27.4
47	Total Hepta-Furans				0.873	10.017	37.835		0.000		20.175		0.378 20.2

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-10.qld

Last Altered: Monday, July 06, 2020 2:48:01 PM Pacific Daylight Time

Printed: Monday, July 06, 2020 3:00:18 PM 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: 200628R1_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Why	Resp	Q1	Q2	Q3
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Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Why	Resp	Q1	Q2	Q3
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Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Why	Resp	Q1	Q2	Q3
Total Hexa-Dioxins	33.33	2.946e4	2.492e4	1.568e3	1.440e3	1.09	NO	3.008e3	1.9926	1.9930	0.221
Total Hexa-Dioxins	34.15	2.152e4	1.624e4	1.594e3	1.204e3	1.33	NO	2.798e3	1.8532	1.8530	0.221
1,2,3,6,7,8-HxCDD	34.94	5.571e3	4.009e3	4.374e2	3.463e2	1.26	NO	7.837e2	0.45197	0.45200	0.197

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Why	Resp	Q1	Q2	Q3
Total Hepta-Dioxins	37.76	1.189e5	1.262e5	1.164e4	1.104e4	1.05	NO	2.268e4	22.410	22.410	0.490
1,2,3,4,6,7,8-HpCDD	38.78	9.827e4	9.475e4	8.155e3	8.632e3	0.94	NO	1.679e4	16.590	16.590	0.490

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Why	Resp	Q1	Q2	Q3
Total Tetra-Furans	21.47	1.985e3	3.022e3	2.116e2	2.763e2	0.77	NO	4.880e2	0.25899	0.25900	0.120
Total Tetra-Furans	22.44	2.739e3	4.464e3	2.047e2	2.935e2	0.70	NO	4.983e2	0.26446	0.26400	0.120
Total Tetra-Furans	24.66	4.650e3	6.491e3	4.145e2	5.096e2	0.81	NO	9.240e2	0.49041	0.49000	0.120
2,3,7,8-TCDF	25.60	5.866e3	6.401e3	3.642e2	4.807e2	0.76	NO	8.449e2	0.44843	0.44800	0.120

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Name: 200628R1_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522

Penta-Furans function 1

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	FA	NO				
1st Func. Penta-Furans	27.59	2.363e4	1.561e4	1.366e3	9.954e2	1.37	NO	2.361e3	0.95916	0.95900	0.0414

Penta-Furans

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	FA	NO				
Total Penta-Furans	29.19	1.689e4	1.332e4	1.163e3	8.163e2	1.42	NO	1.979e3	0.80399	0.80400	0.123
Total Penta-Furans	29.76	3.824e3	4.407e3	3.095e2	2.323e2	1.33	NO	5.418e2	0.22008	0.22000	0.123
1,2,3,7,8-PeCDF	30.17	3.460e4	2.187e4	2.118e3	1.208e3	1.75	NO	3.326e3	1.3286	1.3290	0.127
Total Penta-Furans	30.44	7.269e3	4.739e3	4.118e2	2.950e2	1.40	NO	7.068e2	0.28711	0.28700	0.123
2,3,4,7,8-PeCDF	31.16	1.482e4	1.339e4	6.999e2	5.005e2	1.40	NO	1.200e3	0.47363	0.47400	0.113
Total Penta-Furans	31.19	7.082e3	6.522e3	1.741e2	1.214e2	1.43	NO	2.955e2	0.12005	0.12000	0.123

Hexa-Furans

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	FA	NO				
Total Hexa-Furans	32.79	9.491e3	5.829e3	3.753e2	3.174e2	1.18	NO	6.927e2	0.39661	0.39700	0.281
Total Hexa-Furans	32.95	3.013e4	2.454e4	1.667e3	1.267e3	1.32	NO	2.934e3	1.6797	1.6800	0.281
Total Hexa-Furans	33.49	2.879e4	1.957e4	1.382e3	1.080e3	1.28	NO	2.462e3	1.4095	1.4090	0.281
1,2,3,4,7,8-HxCDF	33.96	2.408e5	2.052e5	1.432e4	1.178e4	1.22	NO	2.610e4	16.363	16.363	0.262
1,2,3,6,7,8-HxCDF	34.08	8.604e4	7.718e4	6.240e3	5.194e3	1.20	NO	1.143e4	5.8385	5.8390	0.233
2,3,4,6,7,8-HxCDF	34.68	1.253e4	1.121e4	8.654e2	7.272e2	1.19	NO	1.593e3	0.87356	0.87400	0.271
1,2,3,7,8,9-HxCDF	35.61	8.301e3	6.294e3	3.574e2	3.006e2	1.19	NO	6.579e2	0.49648	0.49600	0.450
Total Hexa-Furans	35.63	9.650e3	5.752e3	3.053e2	2.226e2	1.37	NO	5.279e2	0.30225	0.30200	0.281

Hepta-Furans

	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	FA	NO				
1,2,3,4,6,7,8-HpCDF	37.37	8.624e4	9.237e4	7.589e3	7.365e3	1.03	NO	1.495e4	12.082	12.082	0.323
Total Hepta-Furans	37.97	2.950e4	3.132e4	2.670e3	2.887e3	0.93	NO	5.557e3	5.4994	5.4990	0.378
1,2,3,4,7,8,9-HpCDF	39.31	1.825e4	1.451e4	1.152e3	1.204e3	0.96	NO	2.356e3	2.5943	2.5940	0.402

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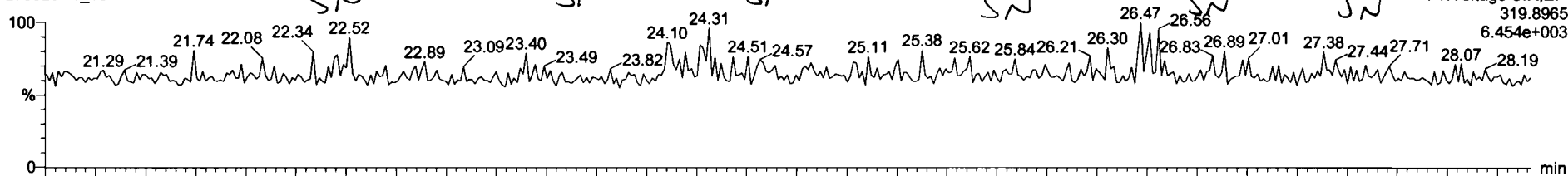
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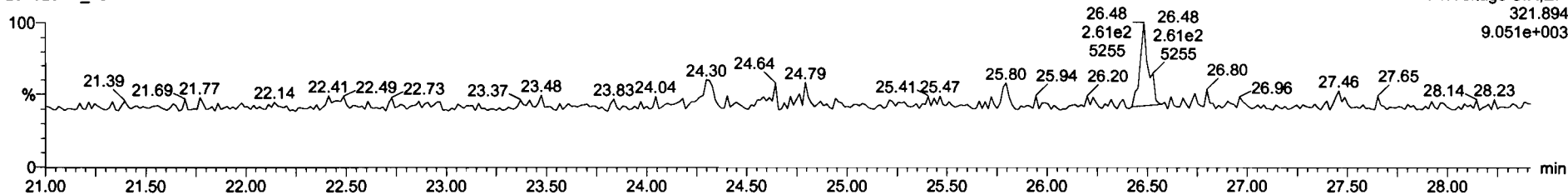
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2,3,7,8-TCDD

200628R1_10

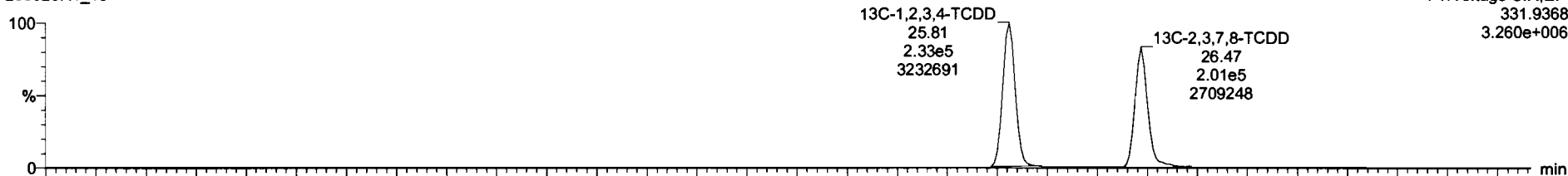


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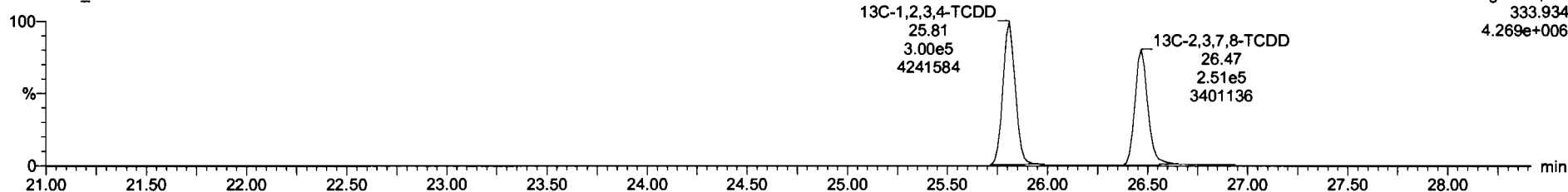


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200628R1_10



200628R1_10



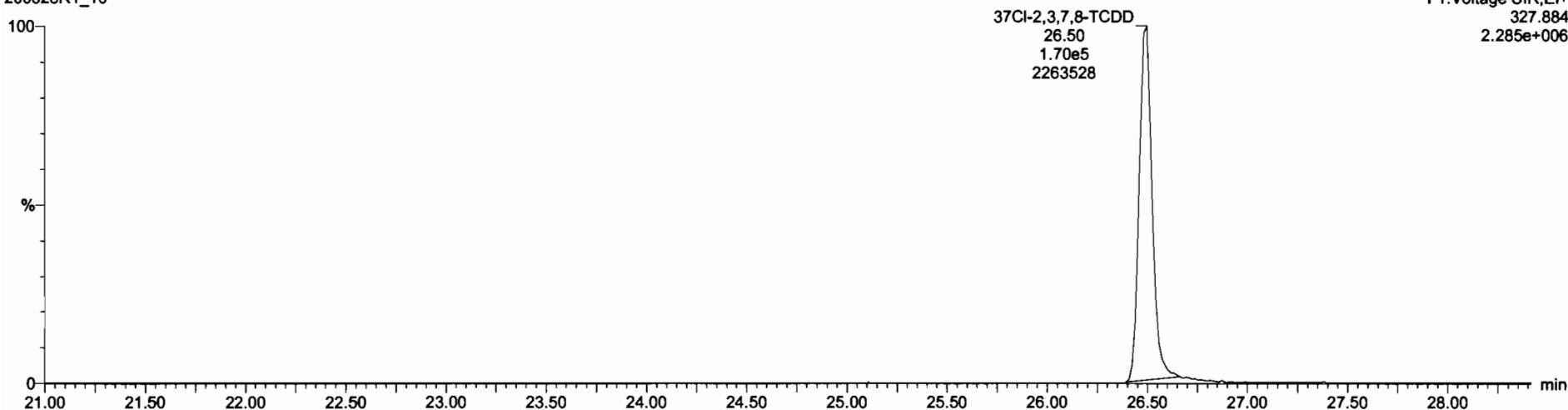
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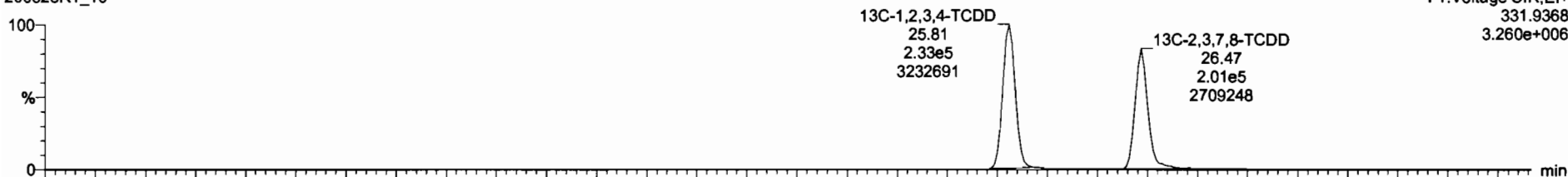
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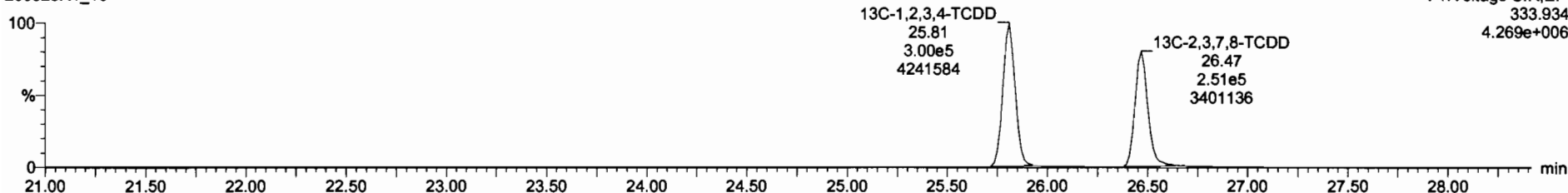


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200628R1_10



200628R1_10



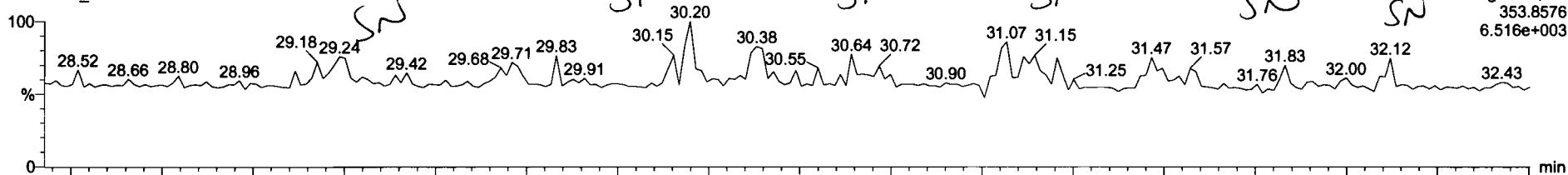
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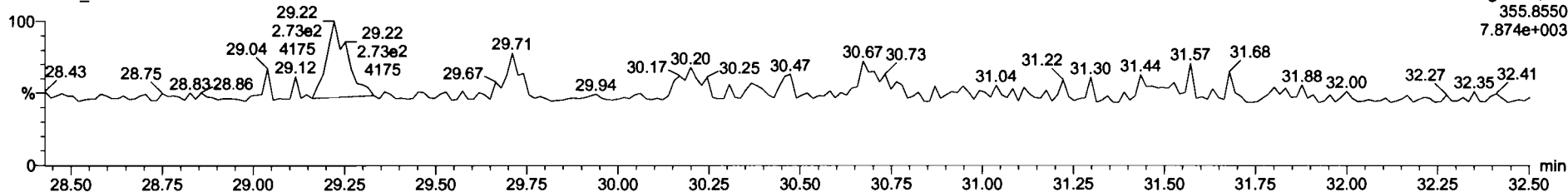
1,2,3,7,8-PeCDD

200628R1_10



F2:Voltage SIR,EI+
353.8576
6.516e+003

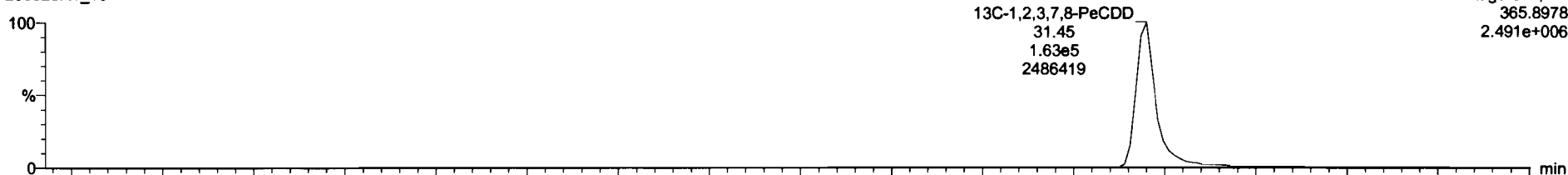
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F2:Voltage SIR,EI+
355.8550
7.874e+003

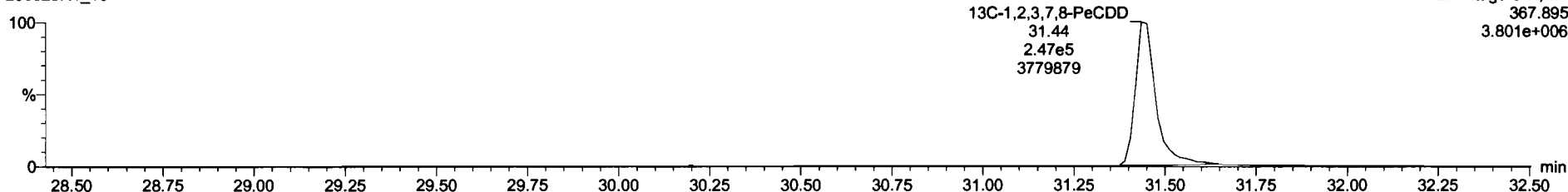
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200628R1_10



F2:Voltage SIR,EI+
365.8978
2.491e+006

200628R1_10



F2:Voltage SIR,EI+
367.895
3.801e+006

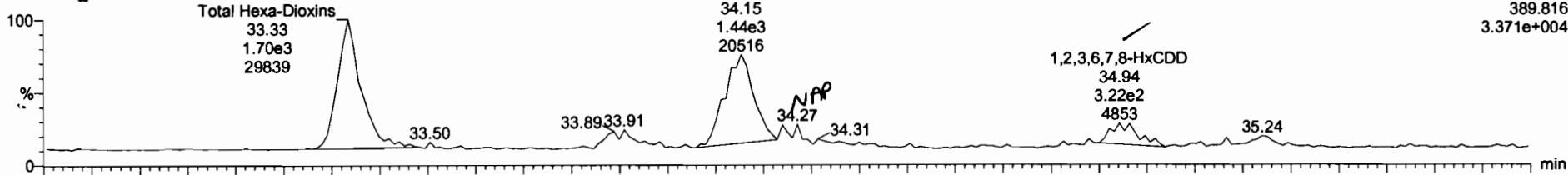
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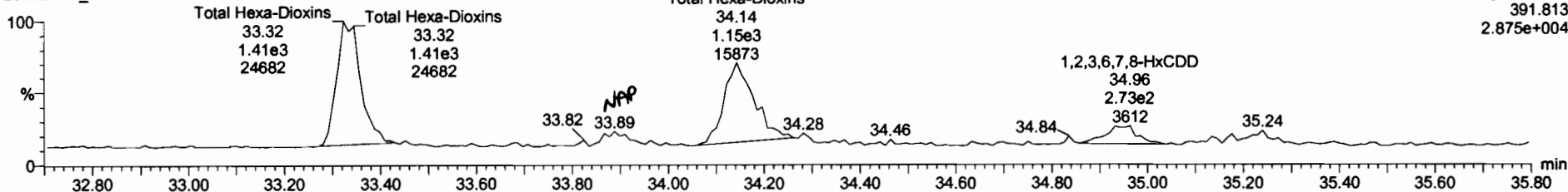
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1,2,3,4,7,8-HxCDD

200628R1_10

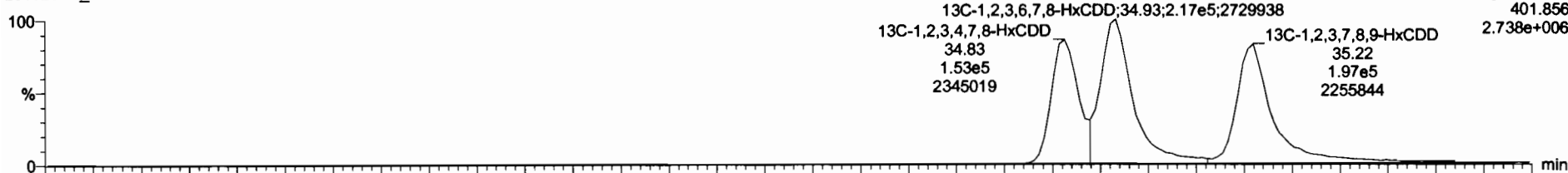


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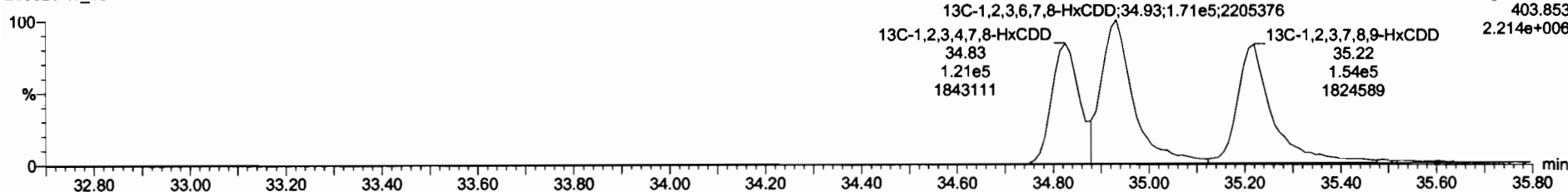


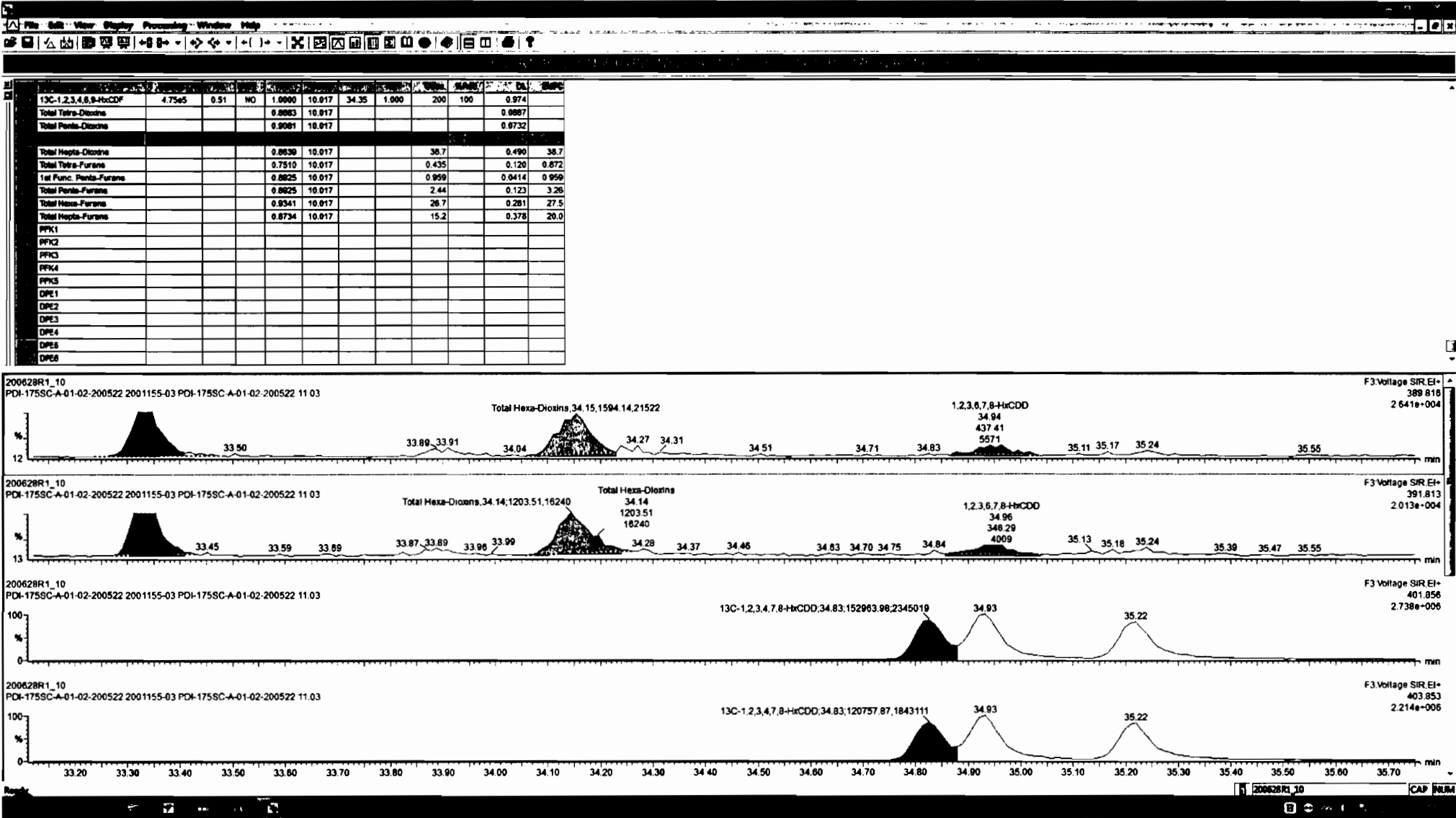
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200628R1_10



200628R1_10





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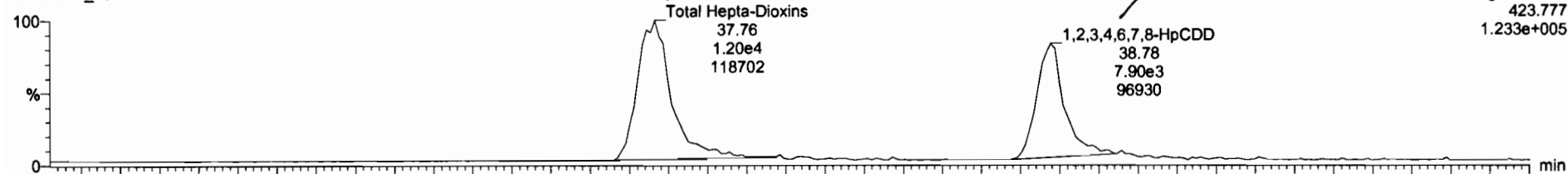
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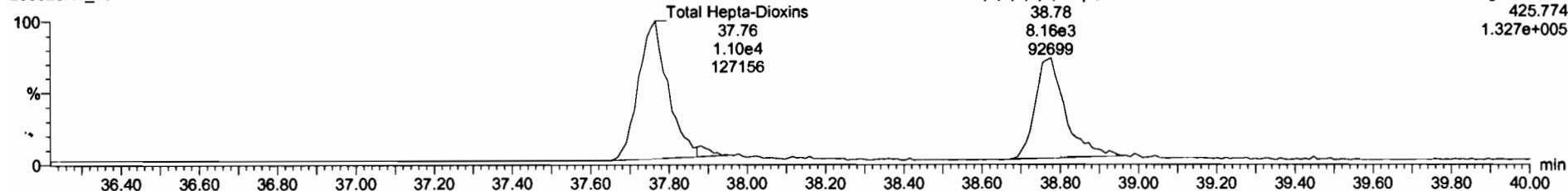
1,2,3,4,6,7,8-HpCDD

200628R1_10



F4:Voltage SIR,EI+
423.777
1.233e+005

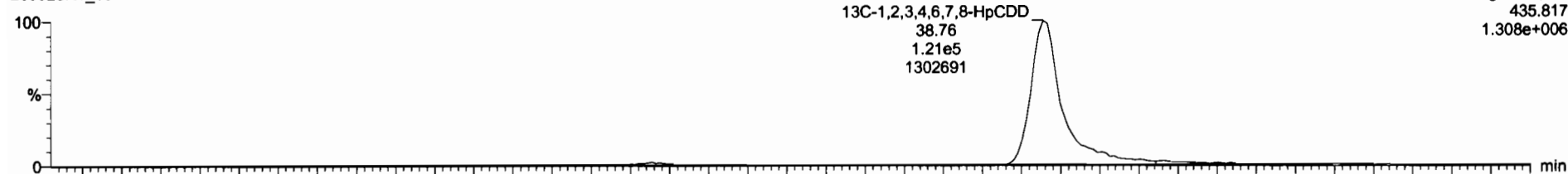
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F4:Voltage SIR,EI+
425.774
1.327e+005

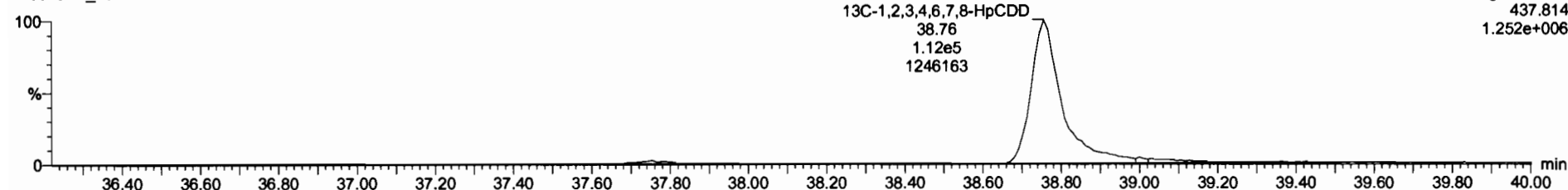
13C-1,2,3,4,6,7,8-HpCDD

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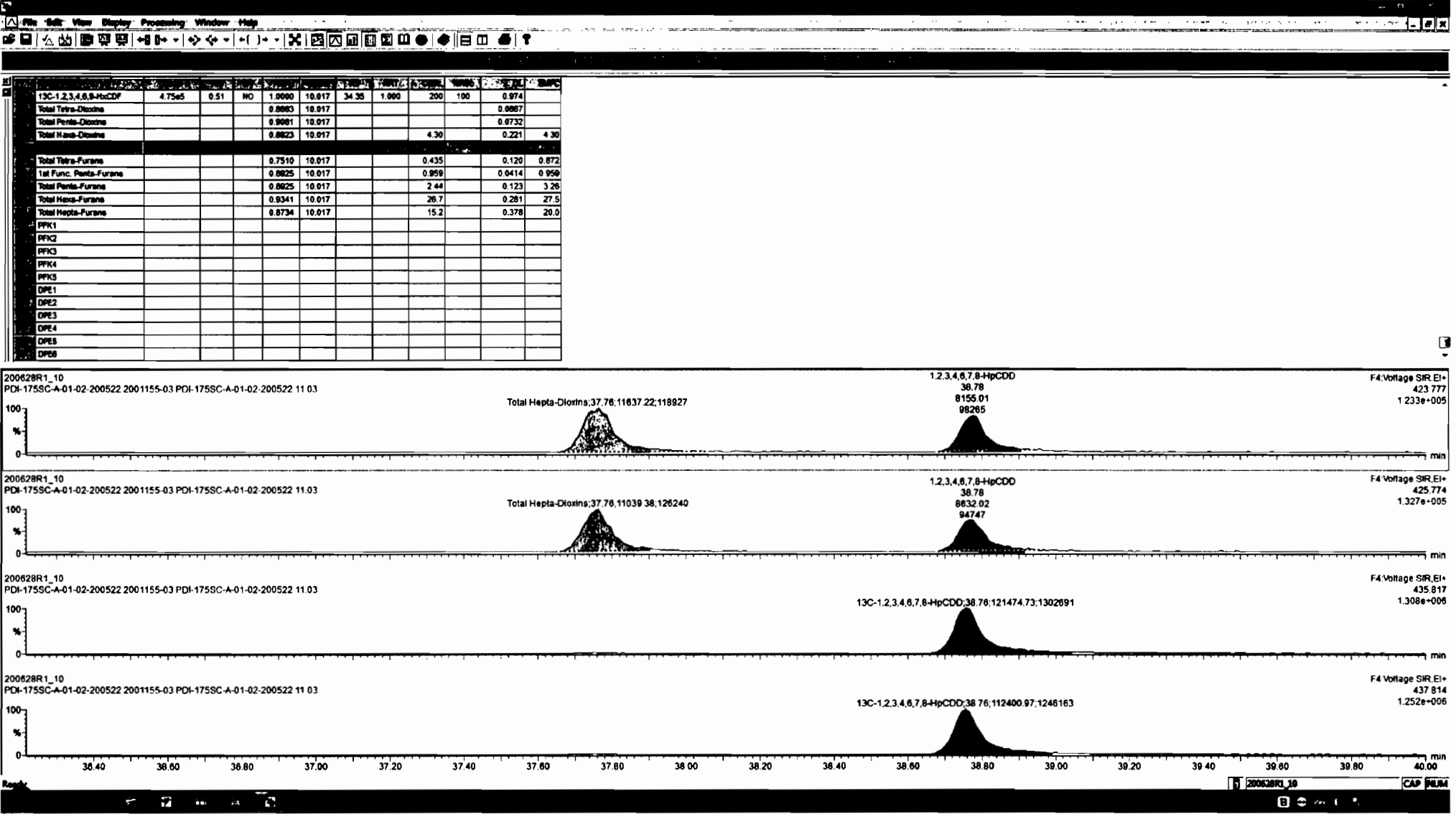


F4:Voltage SIR,EI+
435.817
1.308e+006

200628R1_10



F4:Voltage SIR,EI+
437.814
1.252e+006

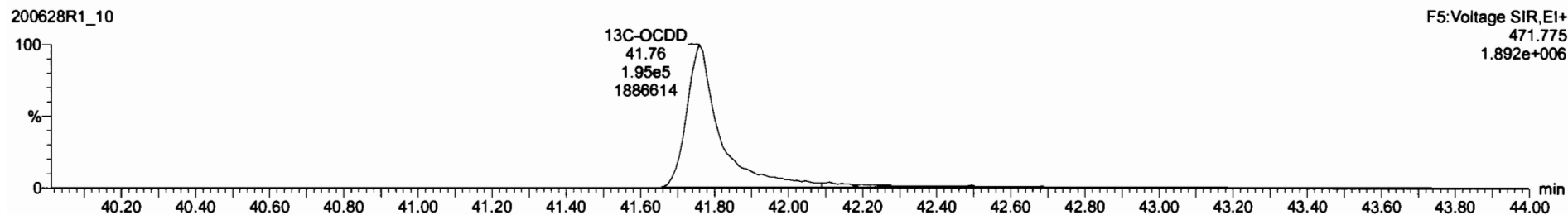
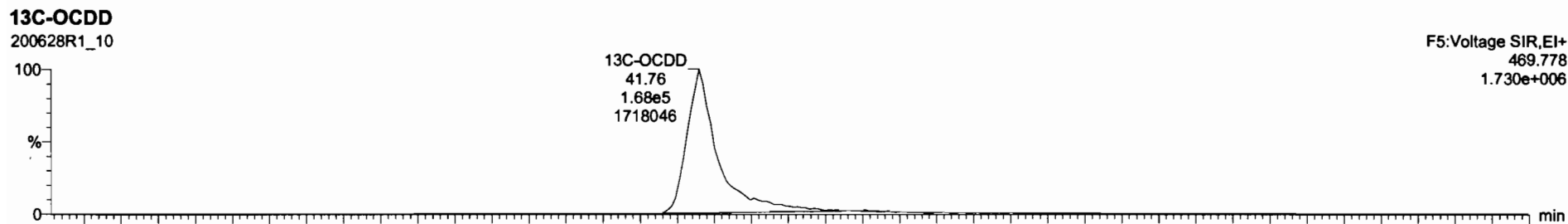
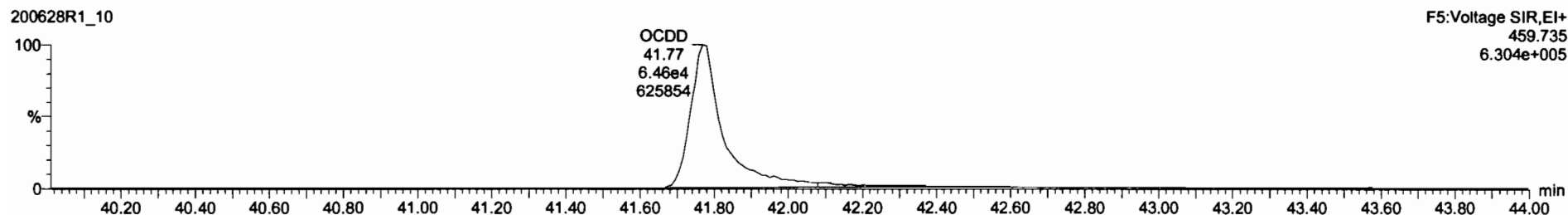
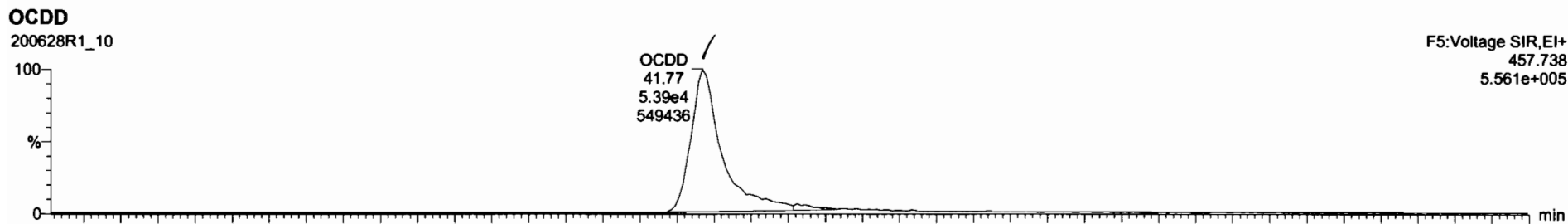


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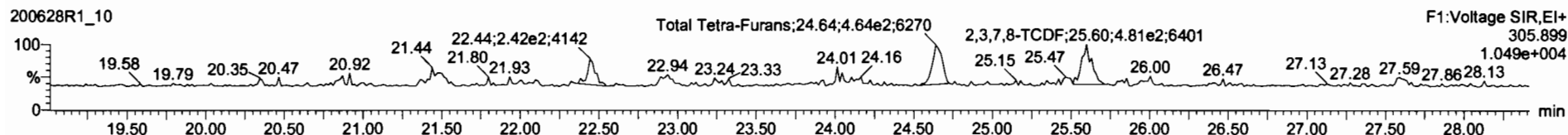
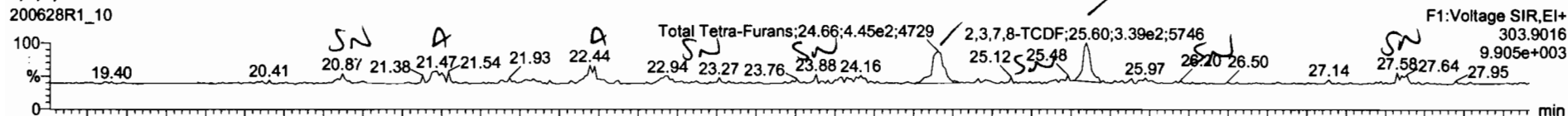


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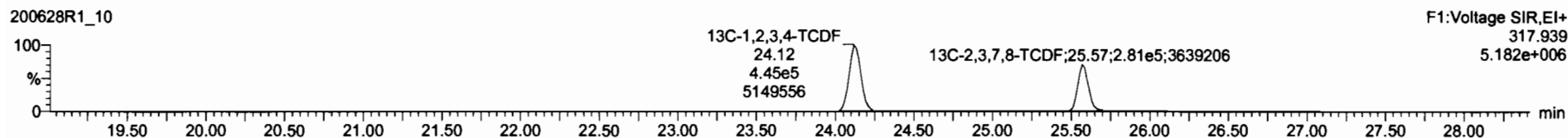
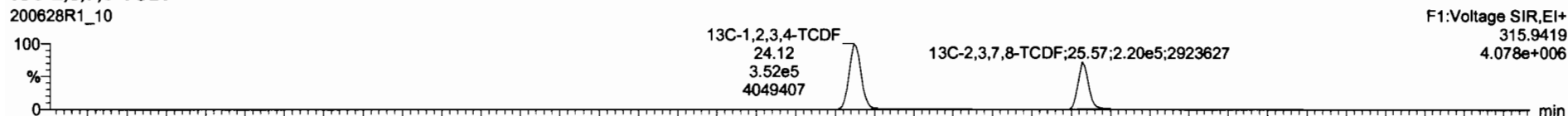
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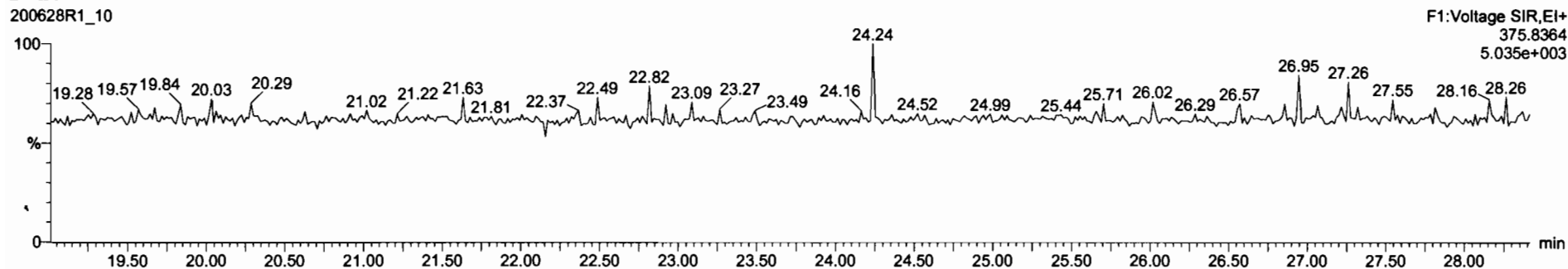
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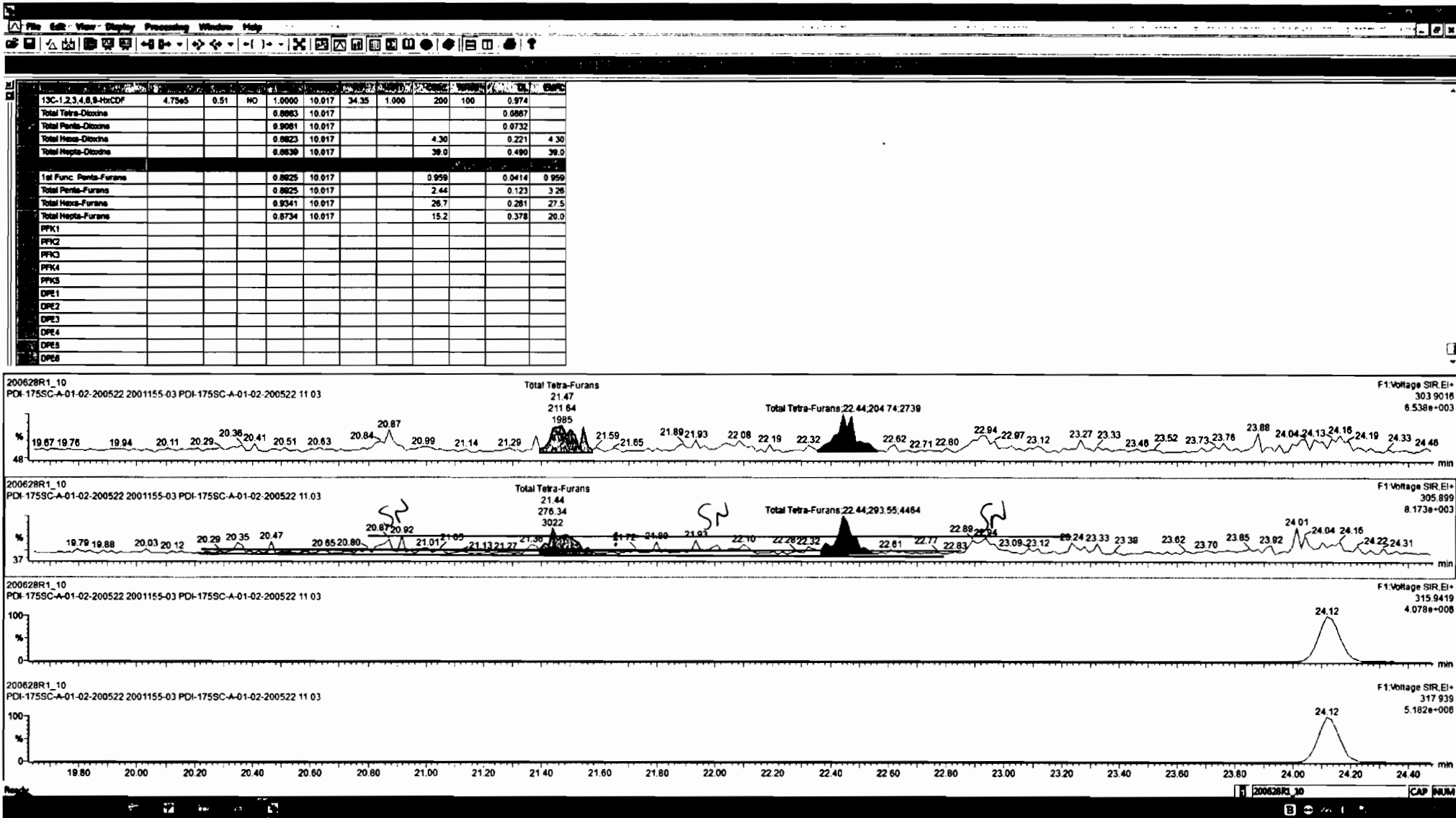


13C-2,3,7,8-TCDF

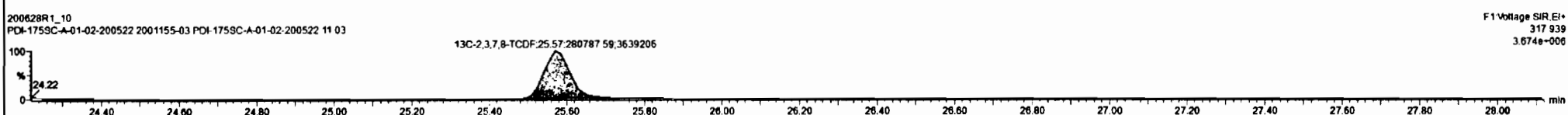
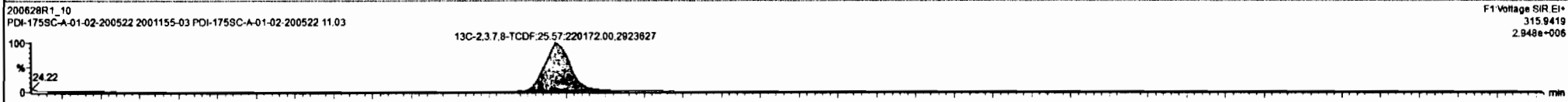
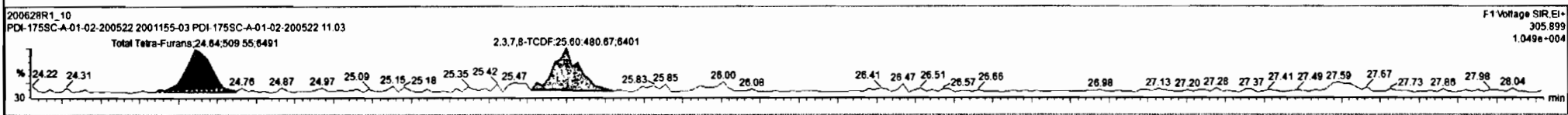
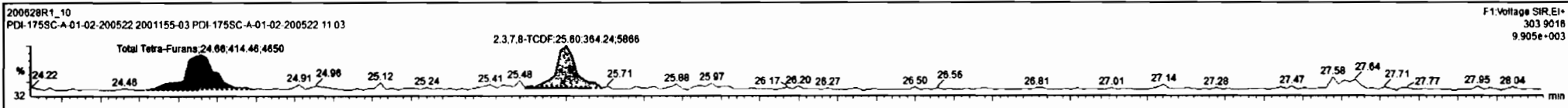


DPE1





13C-1,2,3,4,6,8-HxCDF	4.75e5	0.51	NO	1.0000	10.017	34.35	1.000	200	100	0.974	EMPC
Total Tetra-Dioxins				0.0883	10.017					0.0887	
Total Penta-Dioxins				0.9081	10.017					0.0732	
Total Hexa-Dioxins				0.0823	10.017		4.30			0.221	4.30
Total Hepta-Dioxins				0.0830	10.017			39.0		0.490	39.0
1st Func. Penta-Furans				0.0825	10.017			0.959		0.0414	0.959
Total Penta-Furans				0.0825	10.017		2.44			0.123	3.26
Total Hexa-Furans				0.9341	10.017		26.7			0.281	27.5
Total Hepta-Furans				0.0734	10.017			15.2		0.378	20.0
PFK1											
PFK2											
PFK3											
PFK4											
DPK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



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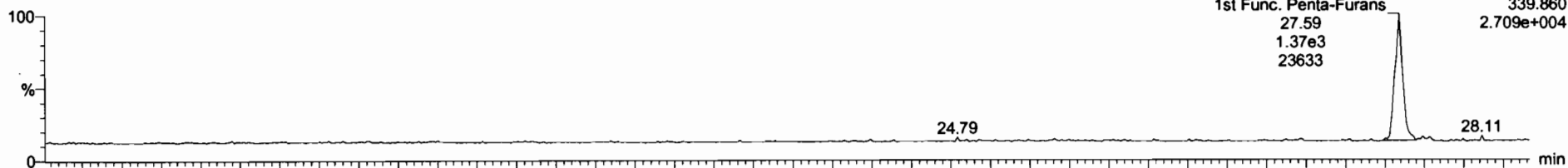
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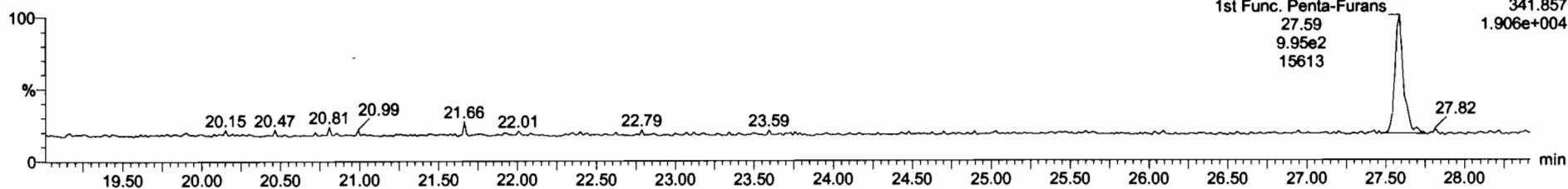
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1st Func. Penta-Furans

200628R1_10

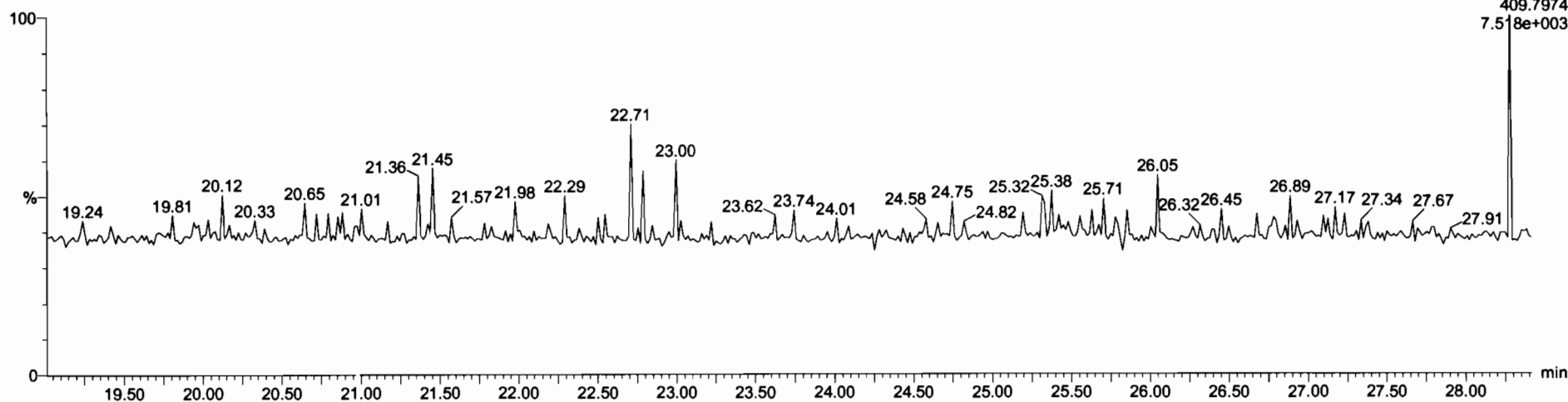


200628R1_10



DPE6

200628R1_10

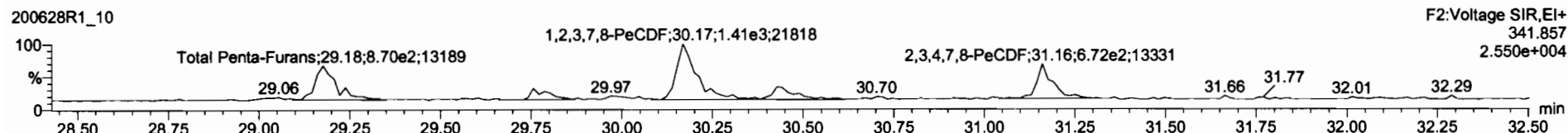
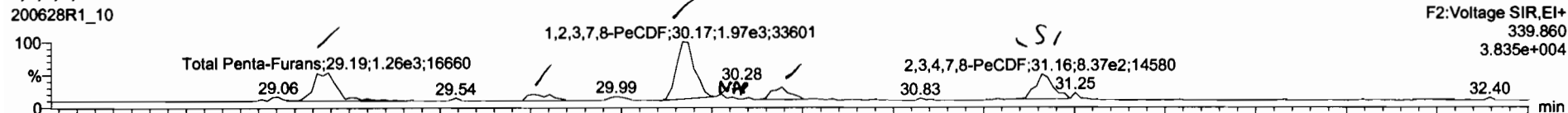


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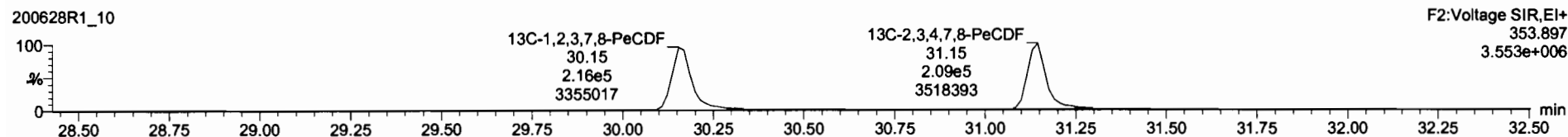
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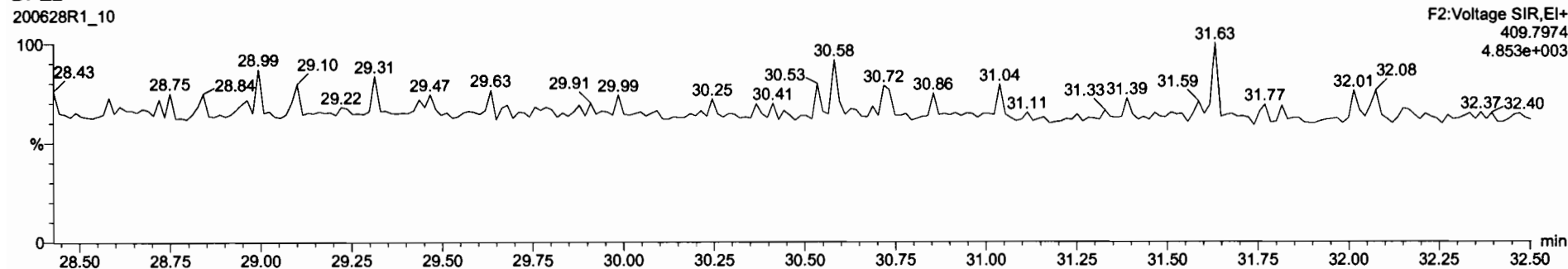
1,2,3,7,8-PeCDF

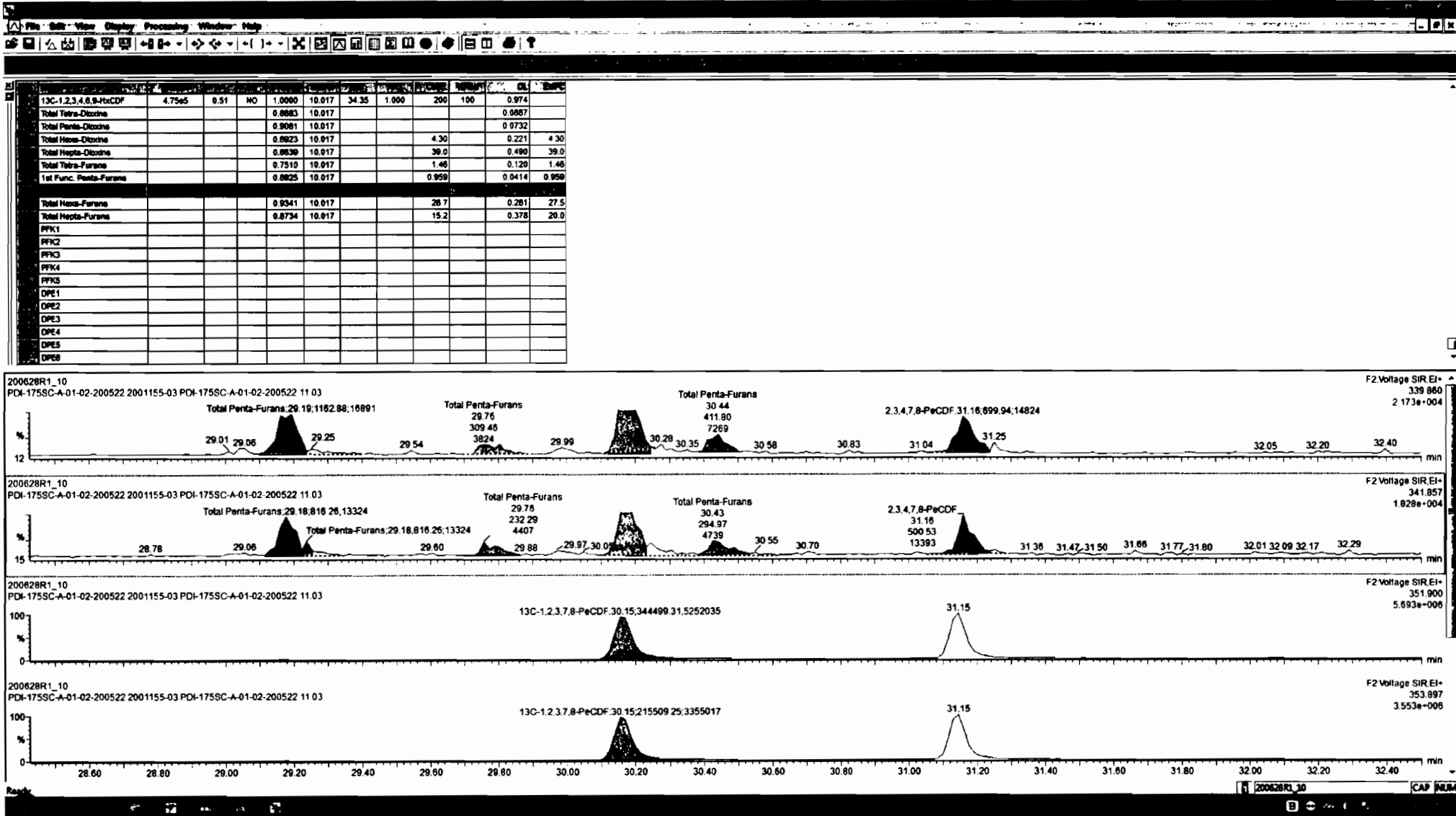


13C-1,2,3,7,8-PeCDF



DPE2



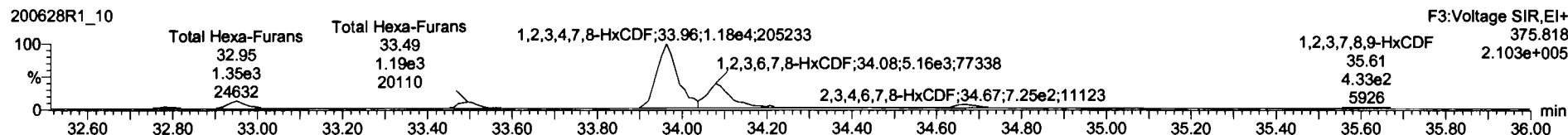
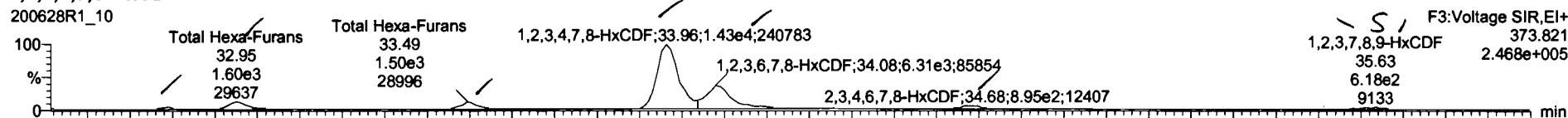


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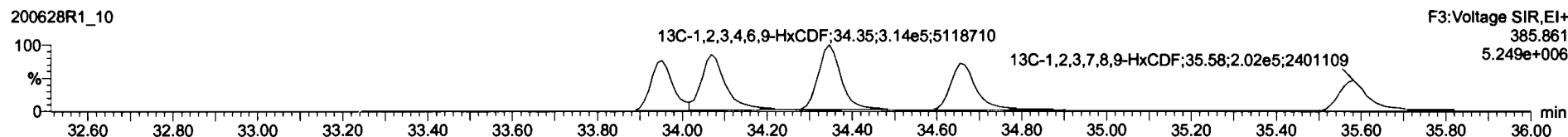
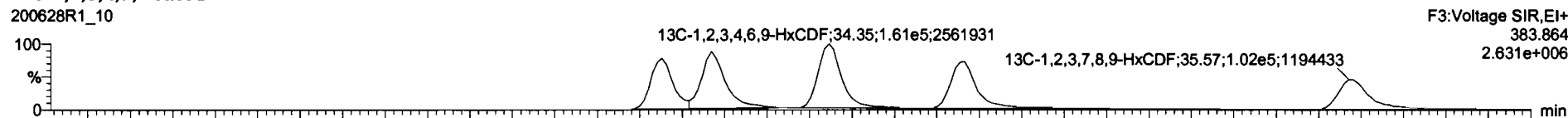
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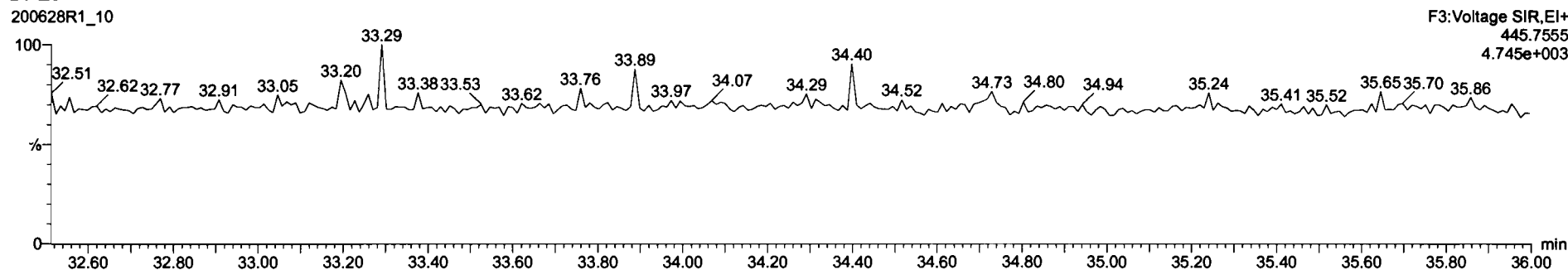
1,2,3,4,7,8-HxCDF



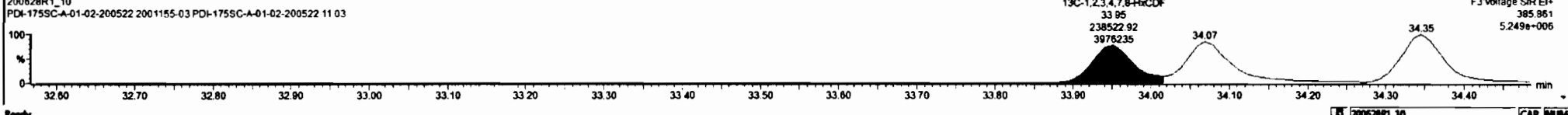
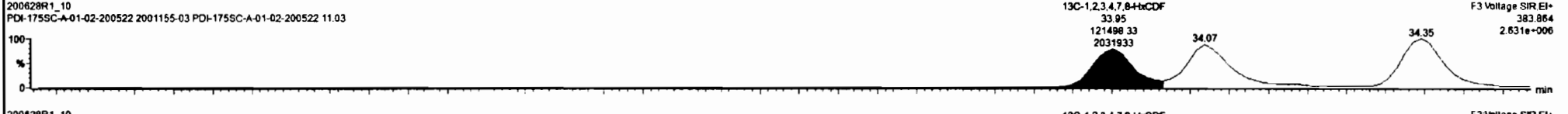
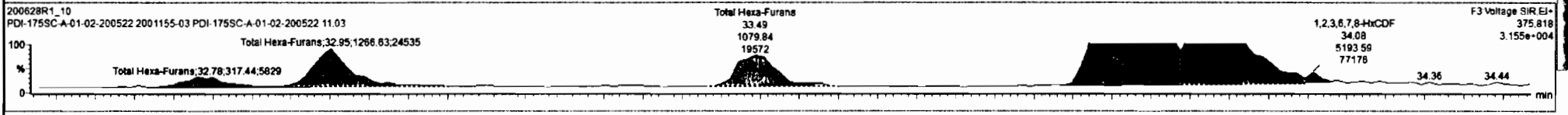
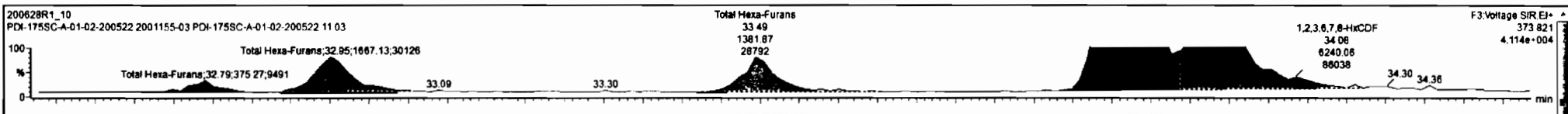
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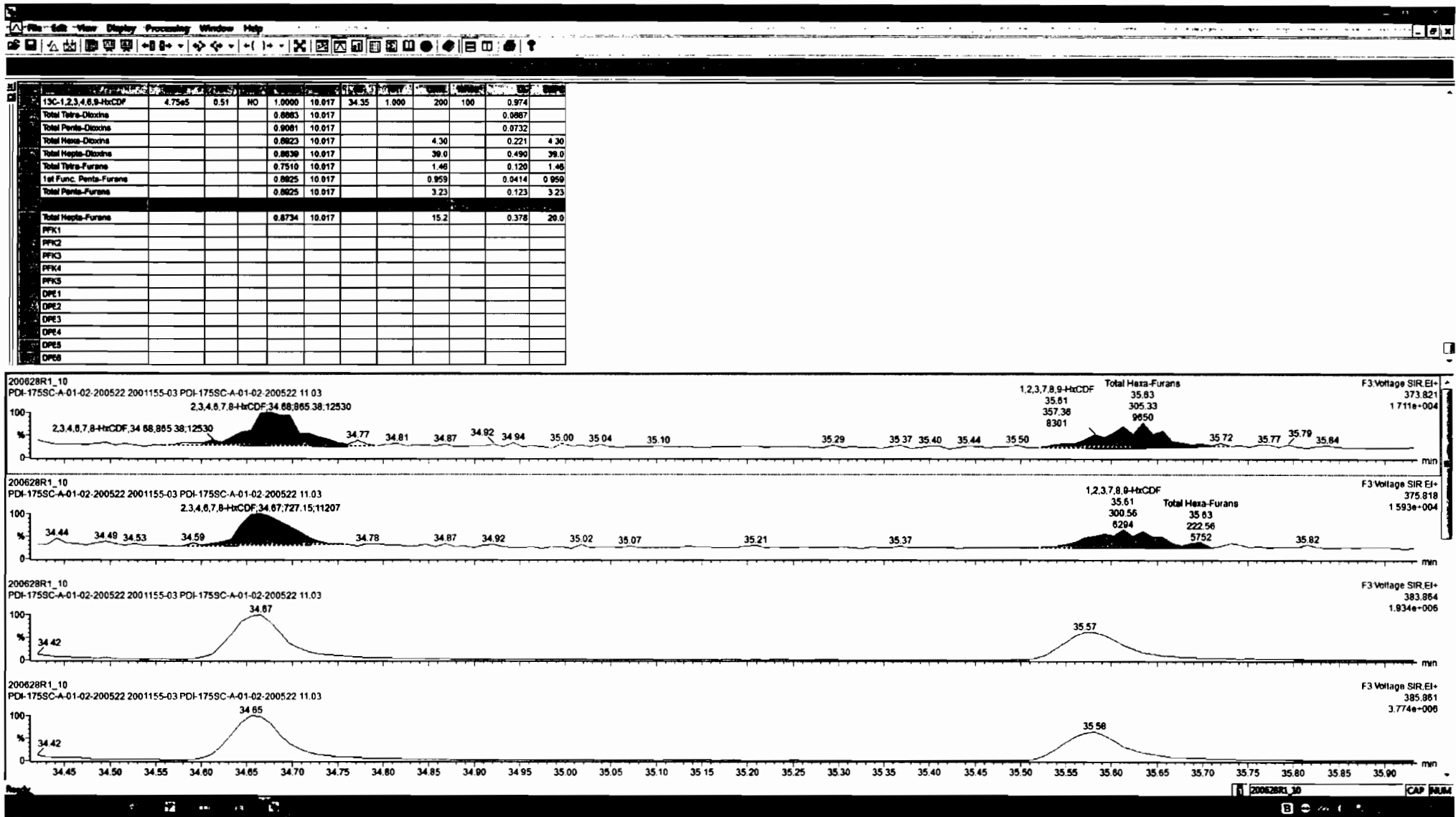


DPE3



13C-1,2,3,4,6,8-HxCDF	4.75e5	0.51	NO	1.0000	10.017	34.35	1.000	200	100	0.974
Total Tetra-Dioxins				0.8583	10.017					0.0887
Total Penta-Dioxins				0.9081	10.017					0.0732
Total Hexa-Dioxins				0.8625	10.017		4.30			0.221 4.30
Total Hepta-Dioxins				0.8630	10.017		39.0			0.490 39.0
Total Tetra-Furans				0.7510	10.017		1.46			0.120 1.46
1st Func. Penta-Furans				0.8625	10.017		0.959			0.0414 0.959
Total Penta-Furans				0.8625	10.017		3.23			0.123 3.23
Total Hepta-Furans				0.8734	10.017		15.2			0.378 20.0
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



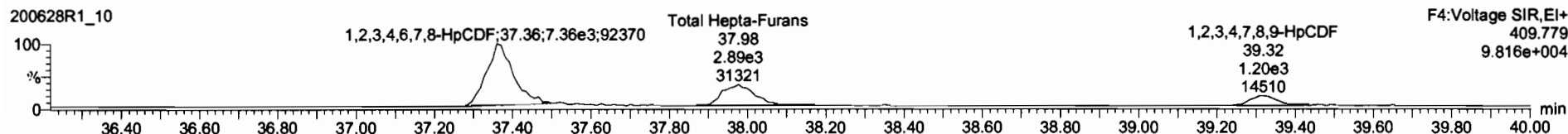
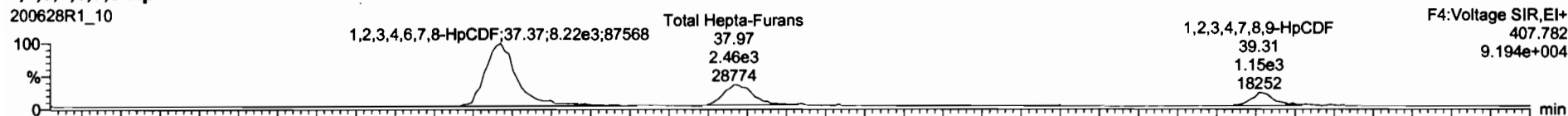


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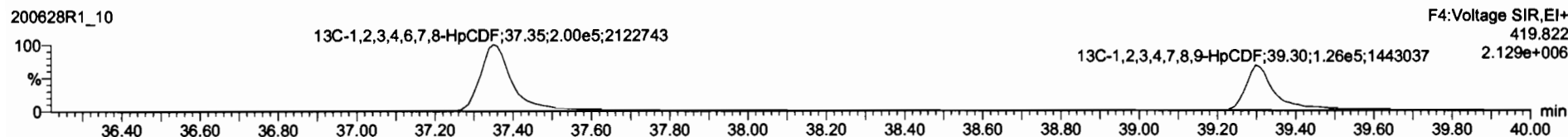
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Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522

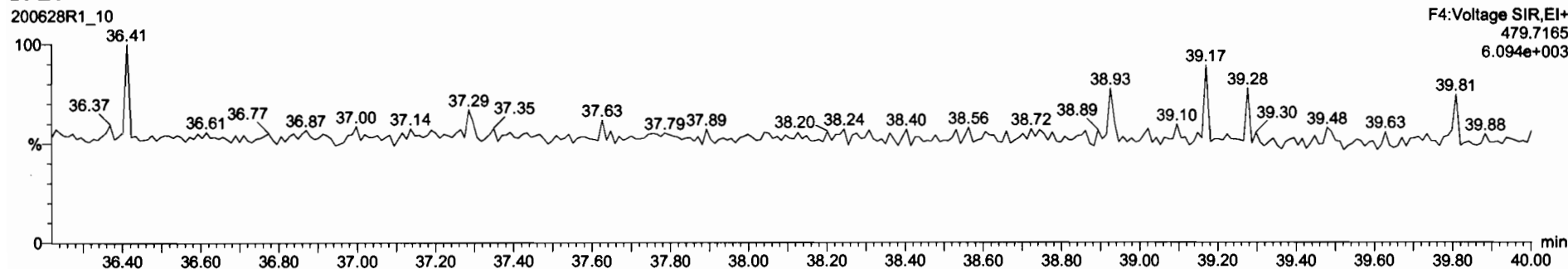
1,2,3,4,6,7,8-HpCDF

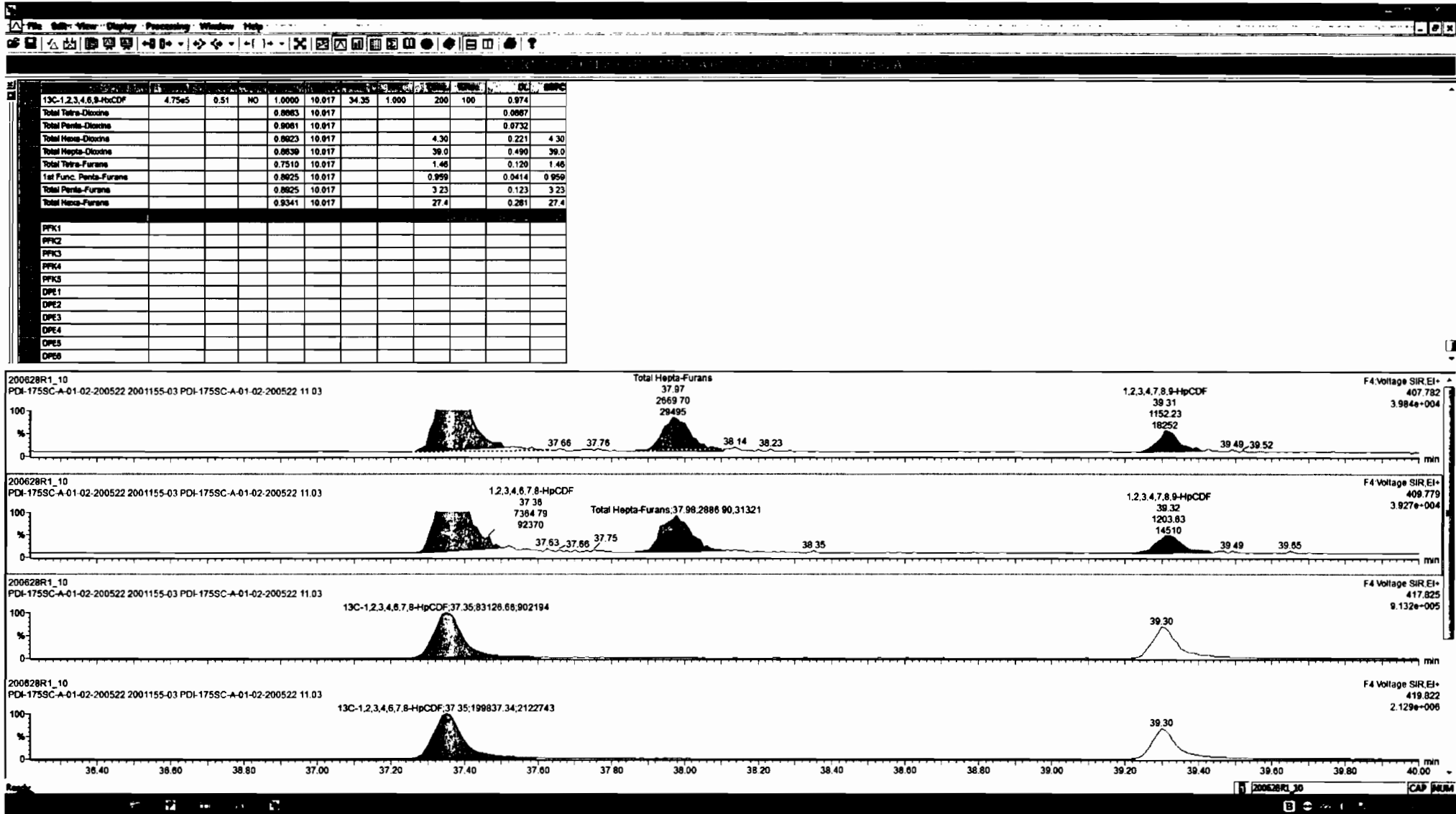


13C-1,2,3,4,6,7,8-HpCDF



DPE4

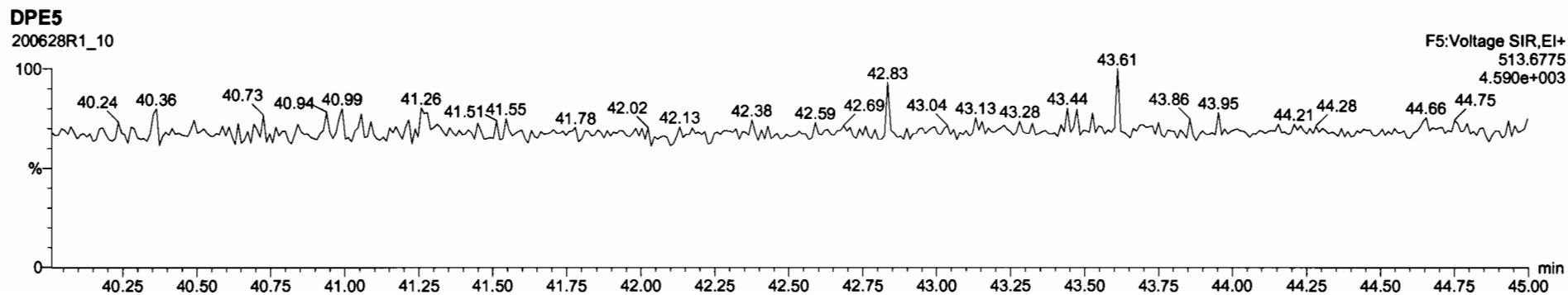
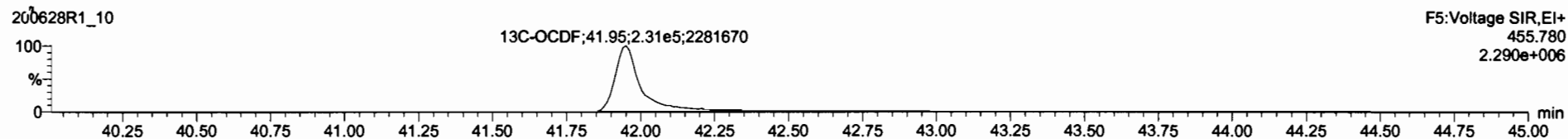
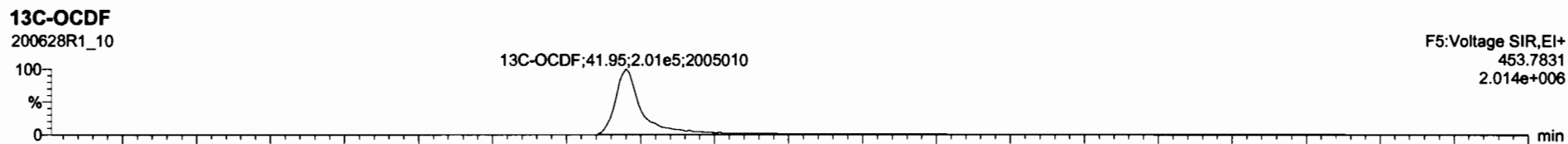
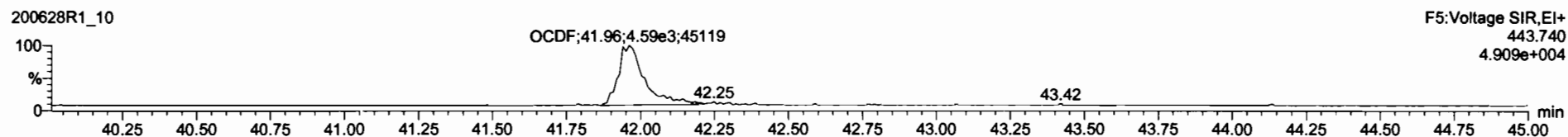
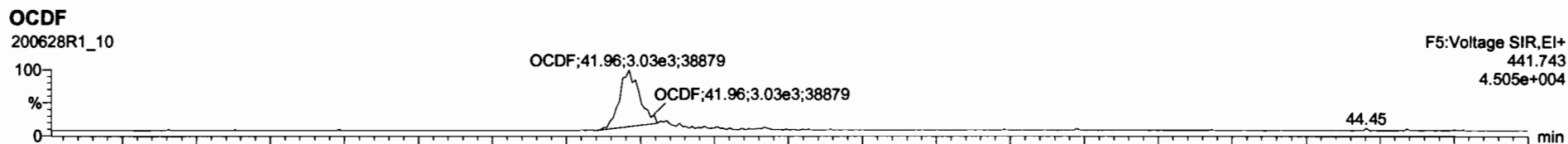


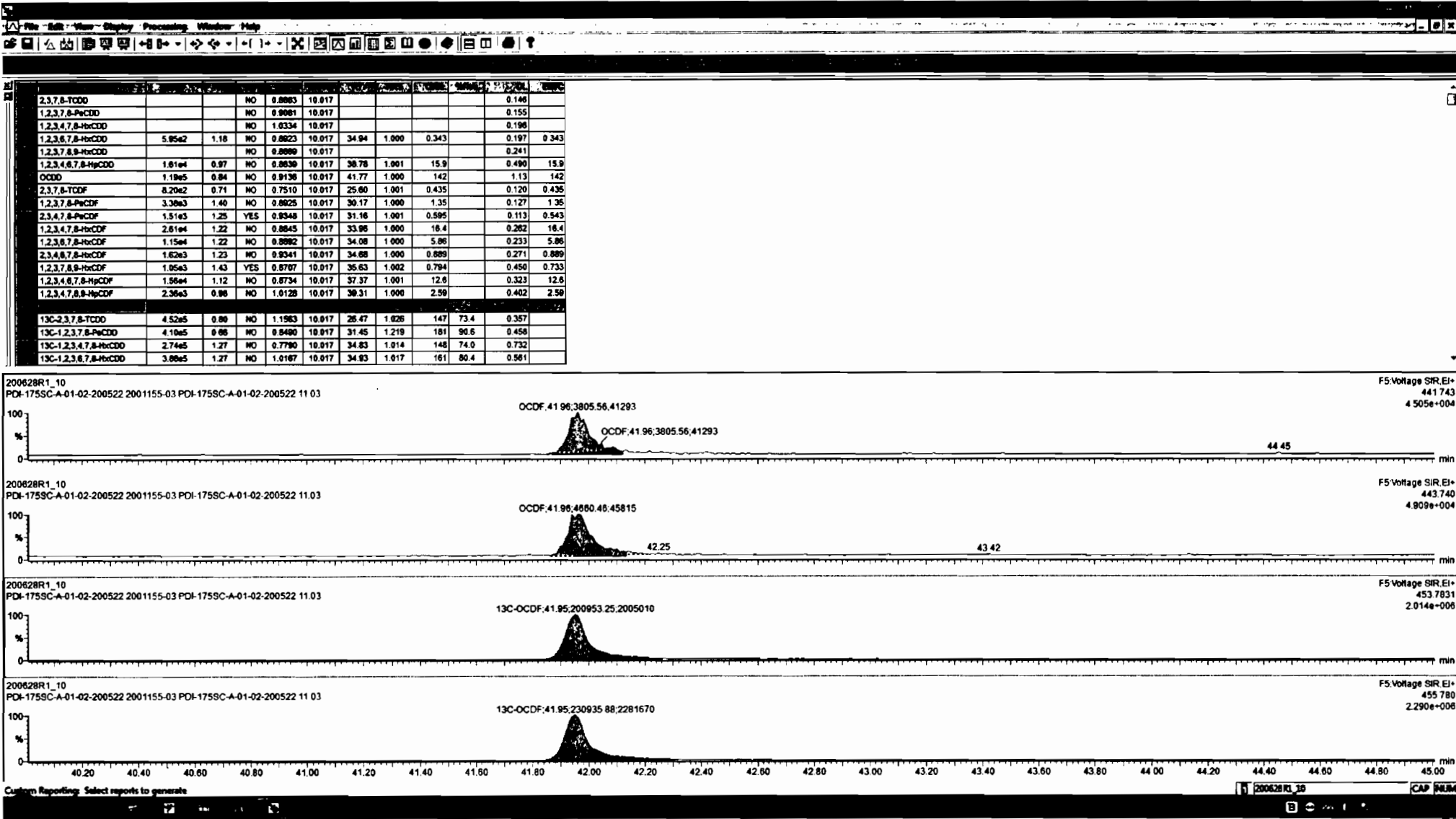


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Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522





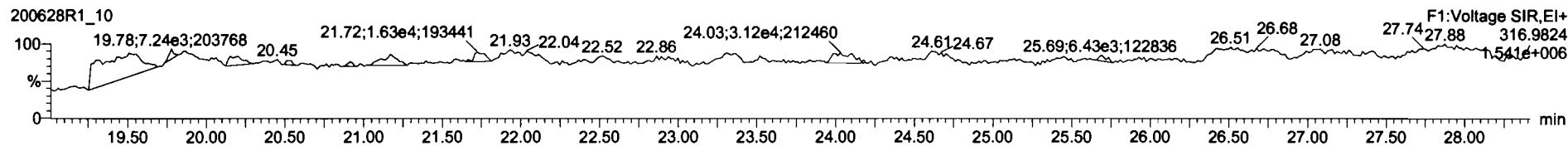
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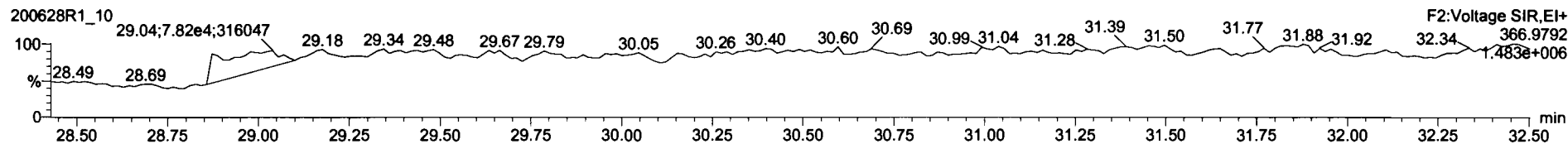
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522

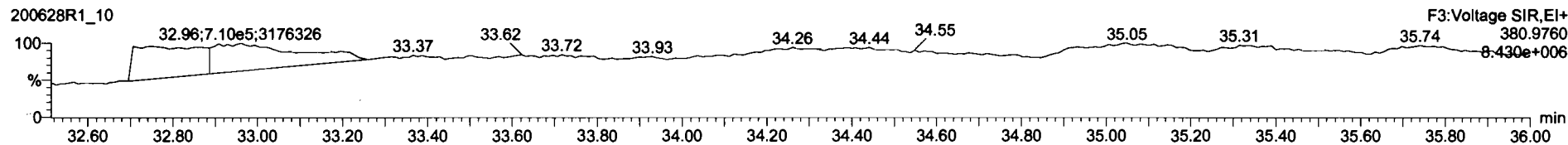
PFK1



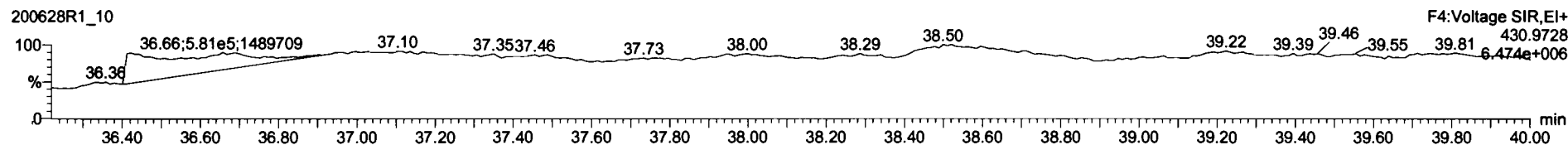
PFK2



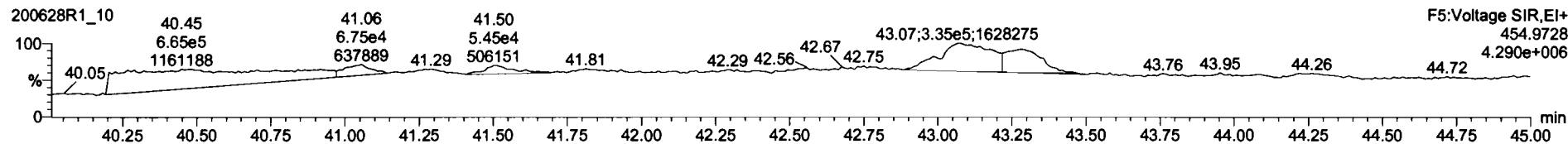
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200628R1\200628R1-11.qld

Last Altered: Monday, July 06, 2020 3:09:39 PM Pacific Daylight Time
Printed: Monday, July 06, 2020 3:11:16 PM Pacific Daylight Time

GRB 07/06/2020

CA 07/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Callbration: U:\VG12.PRO\CurveDB\cb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200628R1_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

	RA	ny	RRF	Wvol	Prod.RT	RRT	RRT	RRT	RRT	RRT	RRT	RRT	
1 2,3,7,8-TCDD		NO	0.888	10.070	26.501	1.001						0.120	
2 1,2,3,7,8-PeCDD		NO	0.908	10.070	31.473	1.001						0.0723	
3 1,2,3,4,7,8-HxCDD		NO	1.03	10.070	34.835	1.000						0.122	
4 1,2,3,6,7,8-HxCDD		NO	0.892	10.070	34.931	1.000						0.119	
5 1,2,3,7,8,9-HxCDD		NO	0.887	10.070	35.230	1.000						0.148	
6 1,2,3,4,6,7,8-HpCDD		NO	0.864	10.070	38.778	1.000						0.210	
7 OCDD	5.47e2	0.83	NO	0.914	10.070	41.769	41.77	1.000	1.000	0.60839		0.226	0.608
8 2,3,7,8-TCDF		NO	0.751	10.070	25.612	1.001						0.0795	
9 1,2,3,7,8-PeCDF		NO	0.893	10.070	30.190	1.001						0.0560	
10 2,3,4,7,8-PeCDF		NO	0.935	10.070	31.177	1.001						0.0516	
11 1,2,3,4,7,8-HxCDF		NO	0.884	10.070	33.952	1.000						0.0565	
12 1,2,3,6,7,8-HxCDF		NO	0.889	10.070	34.089	1.000						0.0508	
13 2,3,4,6,7,8-HxCDF		NO	0.934	10.070	34.700	1.001						0.0533	
14 1,2,3,7,8,9-HxCDF		NO	0.871	10.070	35.581	1.000						0.0871	
15 1,2,3,4,6,7,8-HpCDF		NO	0.873	10.070	37.397	1.001						0.0857	
16 1,2,3,4,7,8,9-HpCDF		NO	1.01	10.070	39.309	1.000						0.101	
17 OCDF		NO	0.806	10.070	41.950	1.000						0.164	
18 13C-2,3,7,8-TCDD	4.92e5	0.75	NO	1.16	10.070	26.491	26.47	1.026	1.026	166.84	84.0	0.326	
19 13C-1,2,3,7,8-PeCDD	4.29e5	0.61	NO	0.849	10.070	31.674	31.45	1.227	1.219	197.91	99.6	0.780	
20 13C-1,2,3,4,7,8-HxCDD	2.74e5	1.30	NO	0.779	10.070	34.840	34.83	1.014	1.014	150.63	75.8	0.883	
21 13C-1,2,3,6,7,8-HxCDD	4.19e5	1.37	NO	1.02	10.070	34.954	34.93	1.017	1.017	176.38	88.8	0.677	
22 13C-1,2,3,7,8,9-HxCDD	3.62e5	1.39	NO	0.903	10.070	35.225	35.22	1.025	1.025	171.80	86.5	0.762	
23 13C-1,2,3,4,6,7,8-HpCDD	2.50e5	1.12	NO	0.689	10.070	38.750	38.77	1.128	1.128	155.10	78.1	0.764	
24 13C-OCDD	3.91e5	0.88	NO	0.652	10.070	41.773	41.77	1.216	1.216	256.83	64.7	1.40	
25 13C-2,3,7,8-TCDF	5.87e5	0.76	NO	1.06	10.070	25.534	25.59	0.989	0.991	148.32	74.7	0.523	
26 13C-1,2,3,7,8-PeCDF	5.84e5	1.53	NO	0.838	10.070	30.058	30.17	1.165	1.169	186.49	93.9	1.22	
27 13C-2,3,4,7,8-PeCDF	5.96e5	1.60	NO	0.817	10.070	31.011	31.15	1.202	1.207	195.42	98.4	1.25	
28 13C-1,2,3,4,7,8-HxCDF	3.78e5	0.52	NO	1.01	10.070	33.971	33.95	0.989	0.988	160.54	80.8	1.02	
29 13C-1,2,3,6,7,8-HxCDF	4.69e5	0.49	NO	1.17	10.070	34.095	34.08	0.992	0.992	172.24	86.7	0.881	
30 13C-2,3,4,6,7,8-HxCDF	4.37e5	0.51	NO	1.02	10.070	34.669	34.67	1.009	1.009	183.12	92.2	1.01	
31 13C-1,2,3,7,8,9-HxCDF	3.43e5	0.50	NO	0.860	10.070	35.569	35.58	1.035	1.036	170.89	86.0	1.20	

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-11.qld

Last Altered: Monday, July 06, 2020 3:09:39 PM Pacific Daylight Time
Printed: Monday, July 06, 2020 3:11:16 PM Pacific Daylight Time

Name: 200628R1_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

	Mass	RA	Hy	RRF	WV	Peak	Area	RRF	WV	Peak	Area	RRF	WV
32	13C-1,2,3,4,6,7,8-HpCDF	3.09e5	0.43	NO	0.774	10.070	37.317	37.36	1.086	1.087	171.13	86.2	0.947
33	13C-1,2,3,4,7,8,9-HpCDF	1.93e5	0.41	NO	0.521	10.070	39.348	39.31	1.145	1.144	158.28	79.7	1.41
34	13C-OCDF	4.76e5	0.90	NO	0.746	10.070	41.945	41.95	1.221	1.221	273.39	68.8	0.821
35	37Cl-2,3,7,8-TCDD	2.09e5			1.04	10.070	26.522	26.50	1.028	1.027	79.215	99.7	0.125
36	13C-1,2,3,4-TCDD	5.07e5	0.78	NO	1.00	10.070	25.890	25.81	1.000	1.000	198.61	100	0.377
37	13C-1,2,3,4-TCDF	7.42e5	0.79	NO	1.00	10.070	24.360	24.13	1.000	1.000	198.61	100	0.554
38	13C-1,2,3,4,6,9-HxCDF	4.64e5	0.51	NO	1.00	10.070	34.420	34.36	1.000	1.000	198.61	100	1.03
39	Total Tetra-Dioxins				0.888	10.070	24.620		0.000				0.0823
40	Total Penta-Dioxins				0.908	10.070	29.960		0.000				0.0314
41	Total Hexa-Dioxins				0.892	10.070	33.635		0.000				0.0736
42	Total Hepta-Dioxins				0.864	10.070	37.640		0.000				0.119
43	Total Tetra-Furans				0.751	10.070	23.610		0.000				0.0356
44	1st Func. Penta-Furans				0.893	10.070	27.580		0.000				0.0154
45	Total Penta-Furans				0.893	10.070	29.275		0.000				0.0289
46	Total Hexa-Furans				0.934	10.070	33.555		0.000				0.0259
47	Total Hepta-Furans				0.873	10.070	37.835		0.000				0.0488

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-11.qld

Last Altered: Monday, July 06, 2020 3:09:39 PM Pacific Daylight Time
Printed: Monday, July 06, 2020 3:11:16 PM 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: 200628R1_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Area	Ratio	Conc	EMPA	DF
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Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Area	Ratio	Conc	EMPA	DF
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Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Area	Ratio	Conc	EMPA	DF
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Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Area	Ratio	Conc	EMPA	DF
------	----	-----------	-----------	---------	---------	----	------	-------	------	------	----

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Area	Ratio	Conc	EMPA	DF
------	----	-----------	-----------	---------	---------	----	------	-------	------	------	----

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Area	Ratio	Conc	EMPA	DF
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Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-11.qld

Last Altered: Monday, July 06, 2020 3:09:39 PM Pacific Daylight Time

Printed: Monday, July 06, 2020 3:11:16 PM Pacific Daylight Time

Name: 200628R1_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	W2	Rate	Comp
------	----	-----------	-----------	---------	---------	----	----	------	------

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	W2	Rate	Comp
------	----	-----------	-----------	---------	---------	----	----	------	------

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	W2	Rate	Comp
------	----	-----------	-----------	---------	---------	----	----	------	------

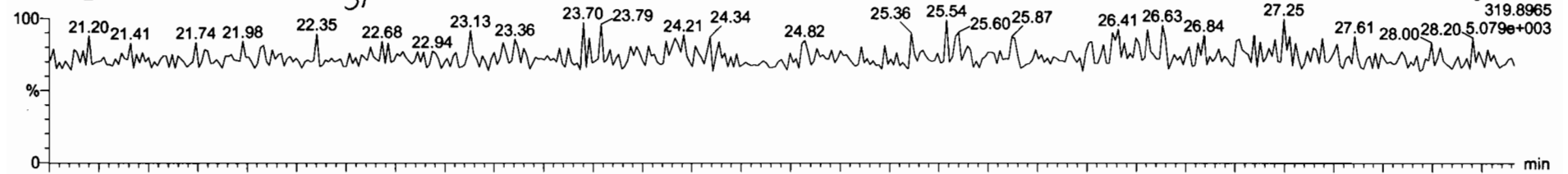
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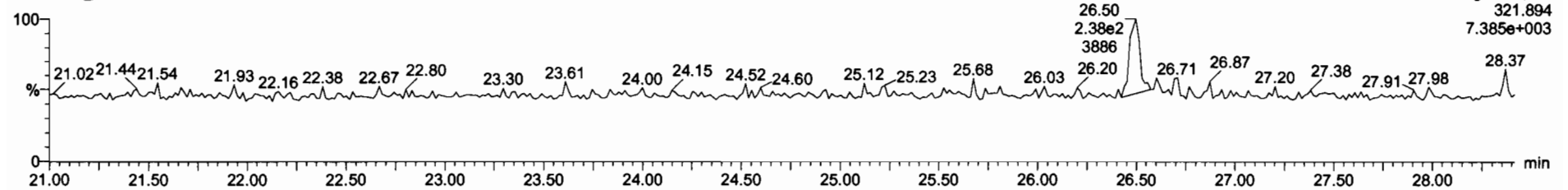
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2,3,7,8-TCDD

200628R1_11

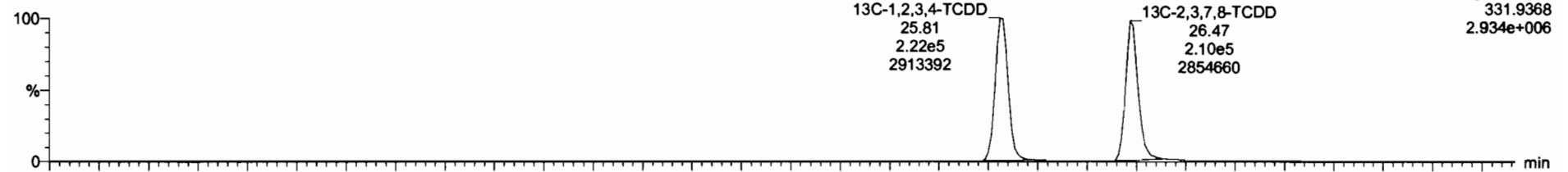


200628R1_11

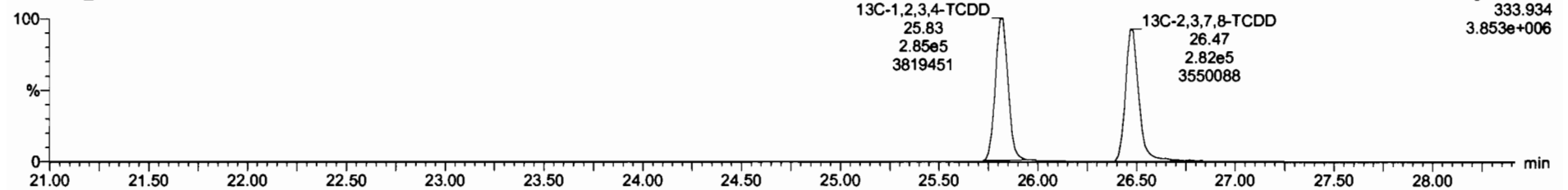


13C-2,3,7,8-TCDD

200628R1_11



200628R1_11



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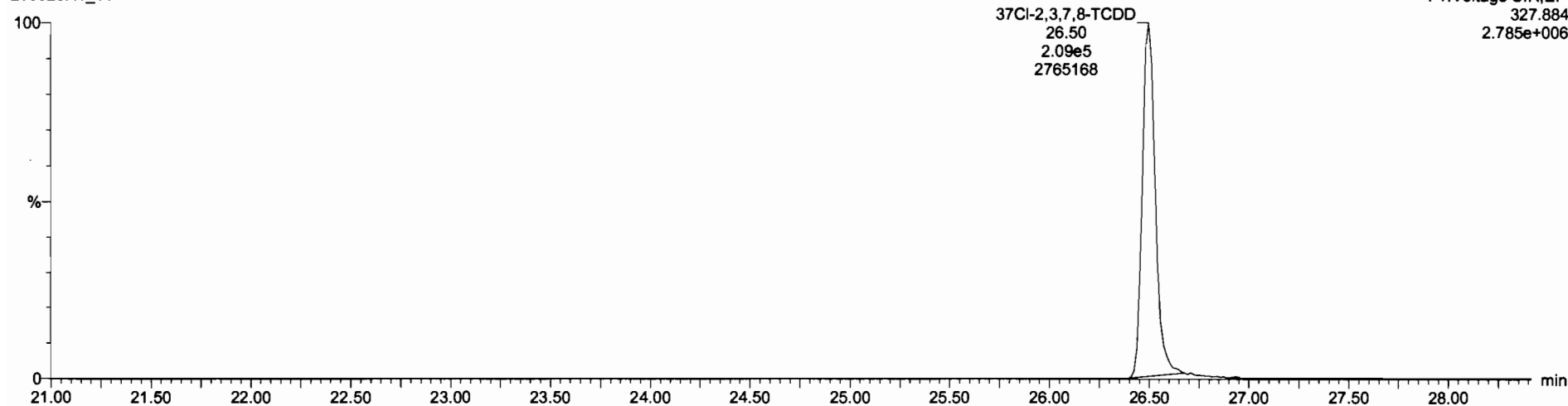
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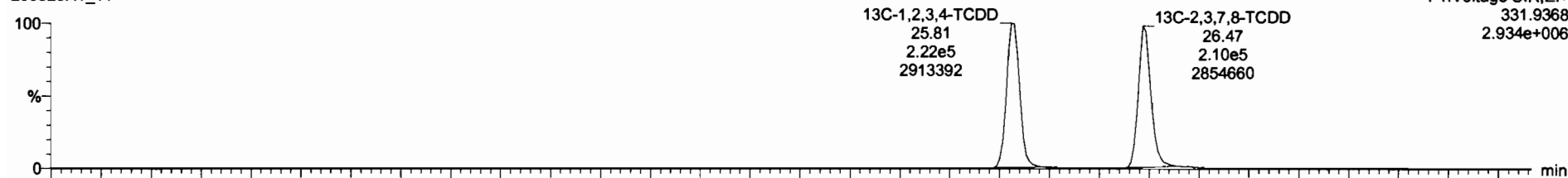
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200628R1_11

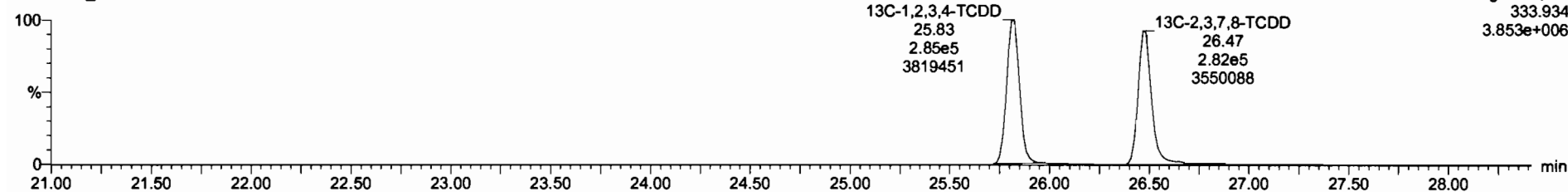


13C-1,2,3,4-TCDD

200628R1_11



200628R1_11



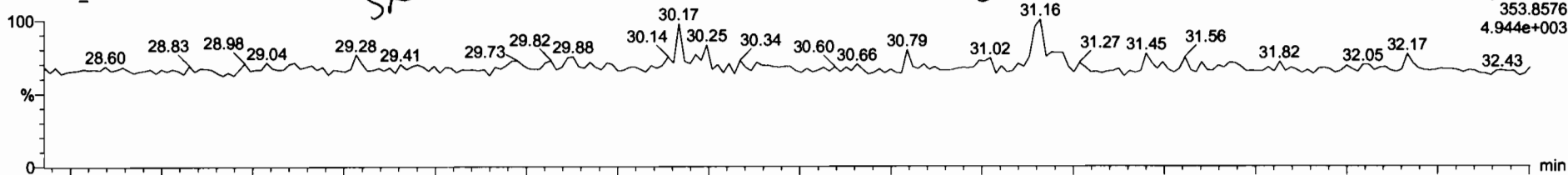
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Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

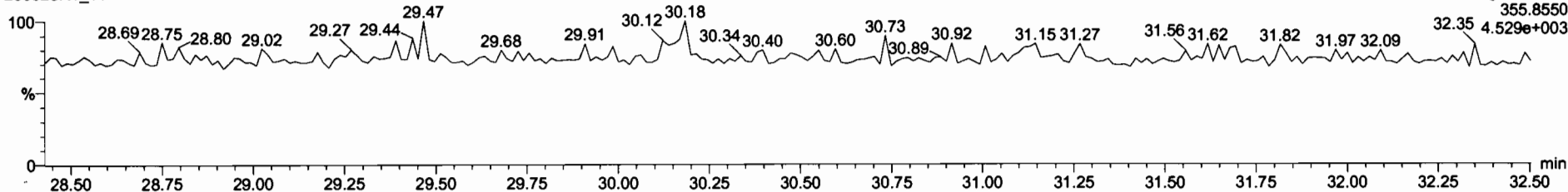
1,2,3,7,8-PeCDD

200628R1_11



F2:Voltage SIR,EI+
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4.944e+003

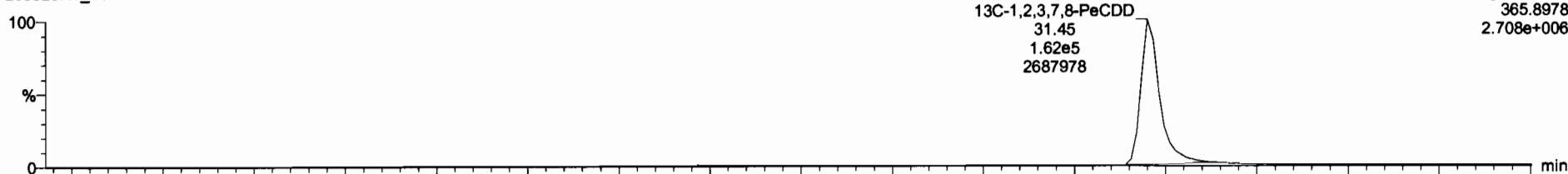
200628R1_11



F2:Voltage SIR,EI+
355.8550
4.529e+003

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

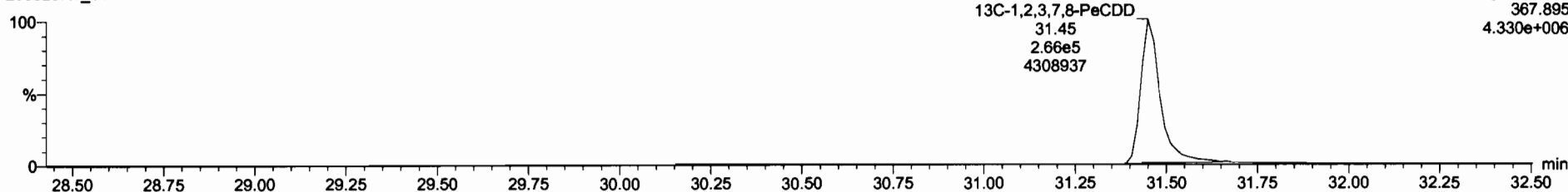
200628R1_11



13C-1,2,3,7,8-PeCDD
31.45
1.62e5
2687978

F2:Voltage SIR,EI+
365.8978
2.708e+006

200628R1_11



13C-1,2,3,7,8-PeCDD
31.45
2.66e5
4308937

F2:Voltage SIR,EI+
367.895
4.330e+006

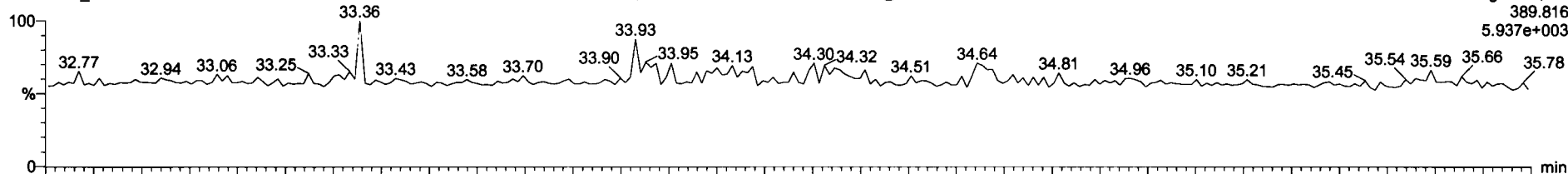
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Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

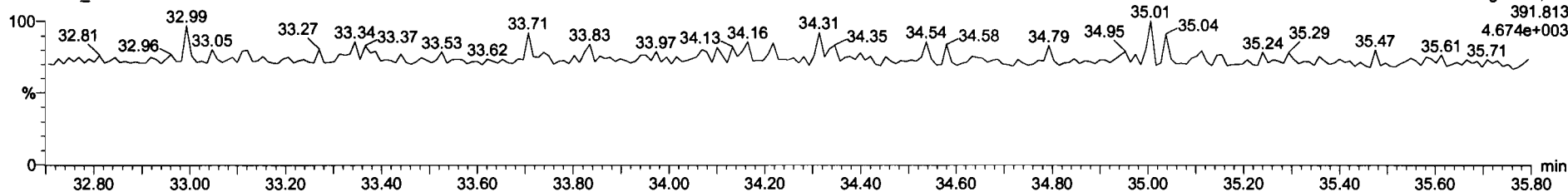
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1,2,3,4,7,8-HxCDD

200628R1_11

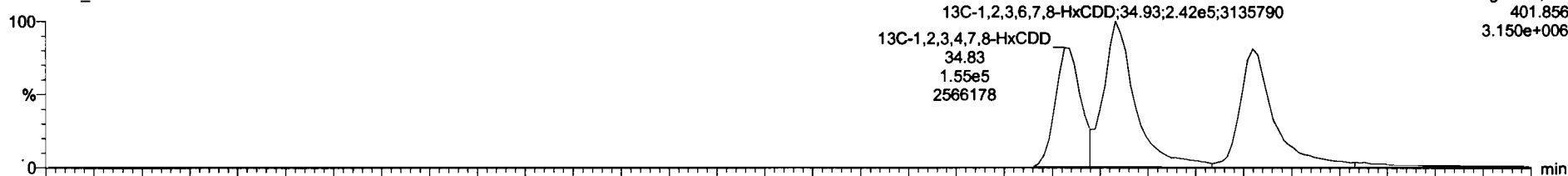


200628R1_11

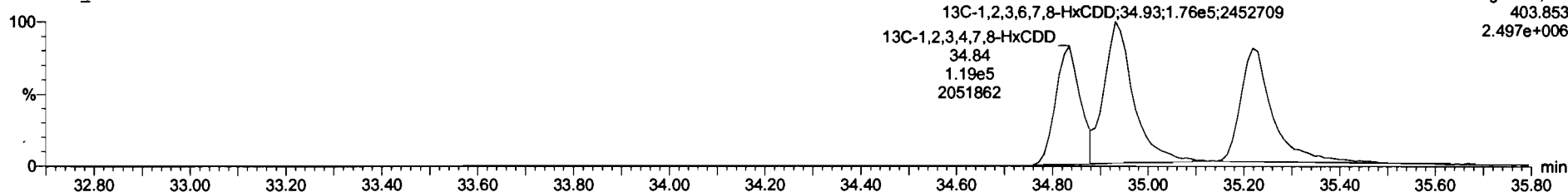


13C-1,2,3,4,7,8-HxCDD

200628R1_11



200628R1_11



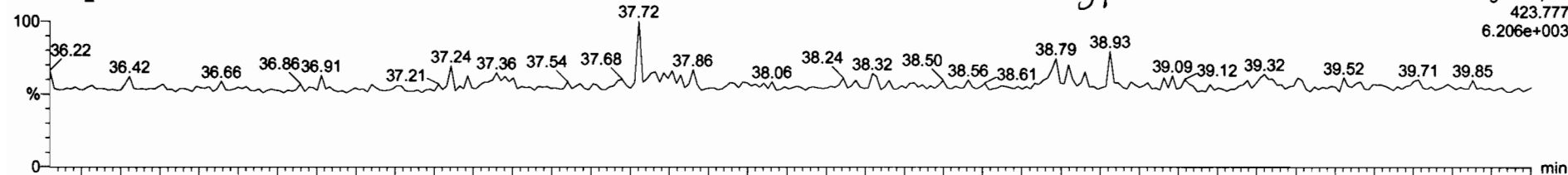
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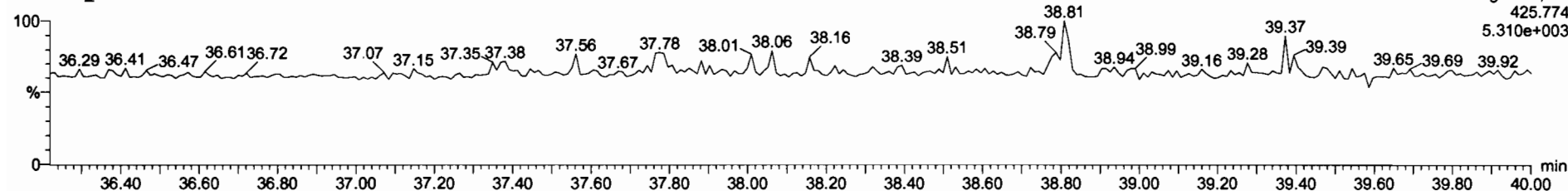
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1,2,3,4,6,7,8-HpCDD

200628R1_11

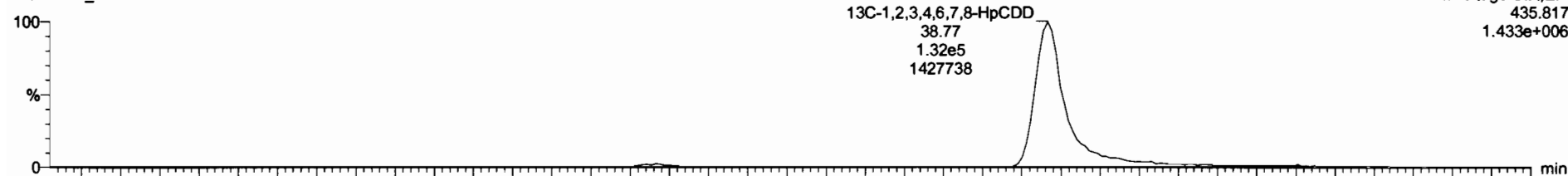


200628R1_11

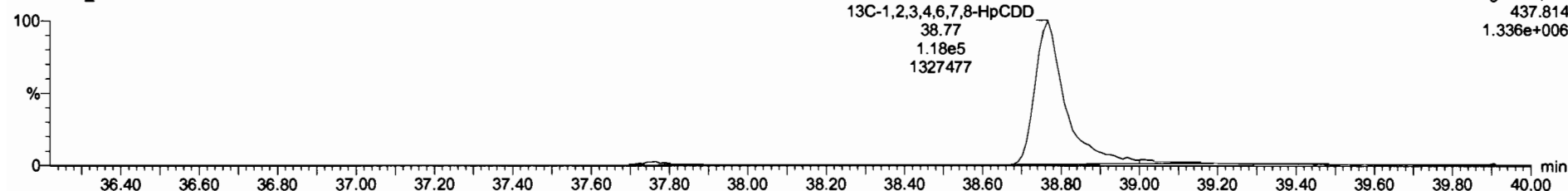


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200628R1_11



200628R1_11

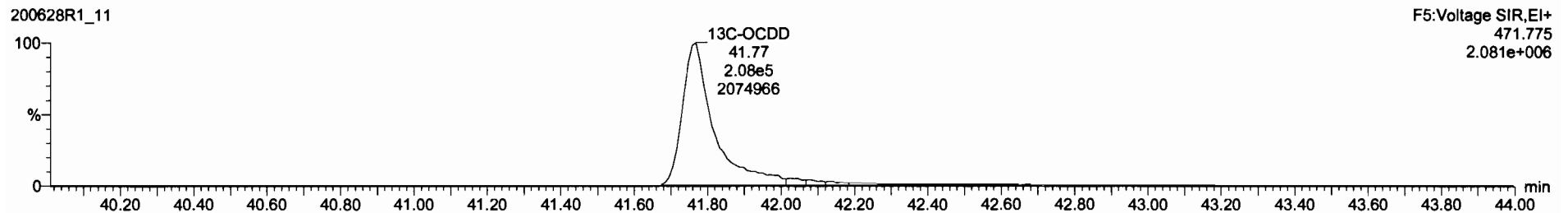
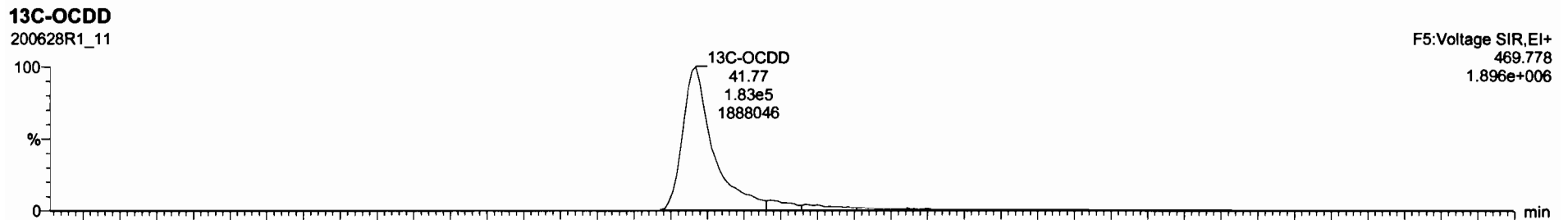
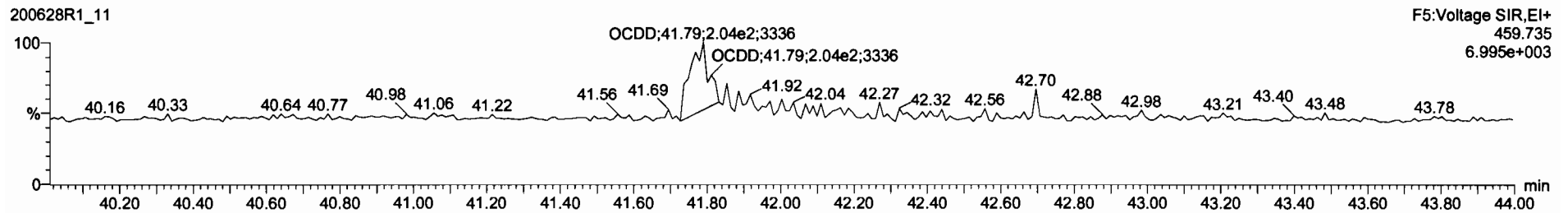
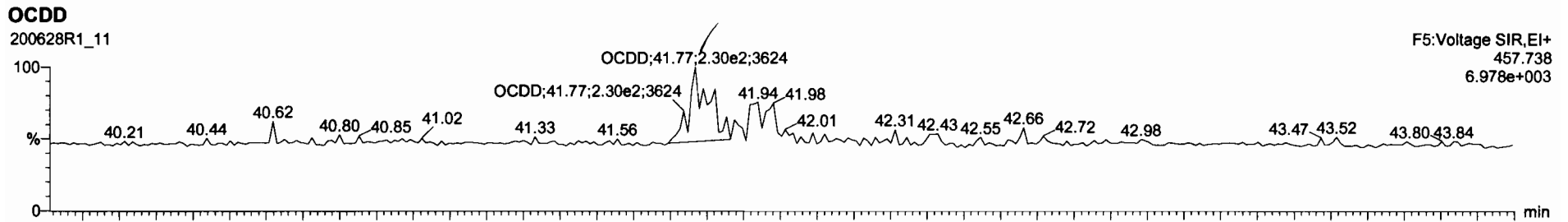


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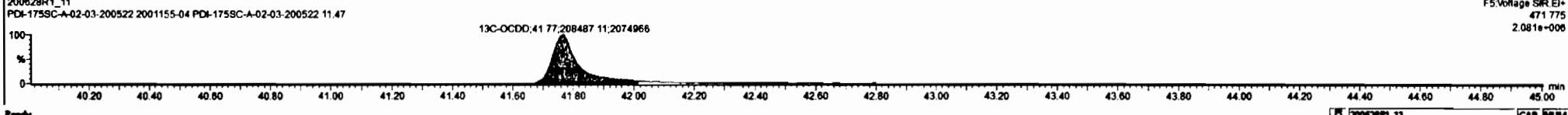
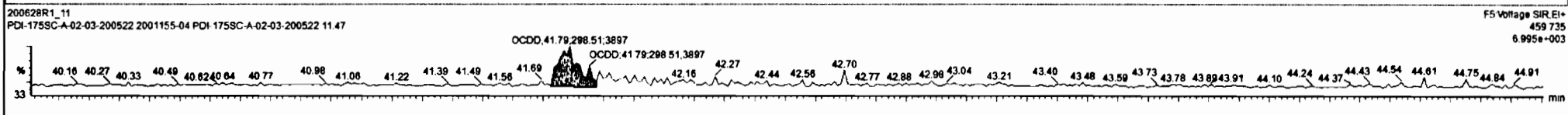
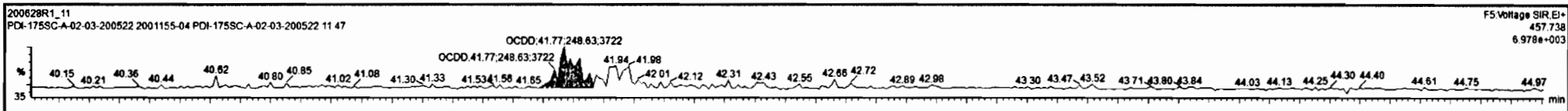
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Name: 200628R1_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522



2,3,7,8-TCDD			NO	0.0083	10.070				0.120	
1,2,3,7,8-PeCDD			NO	0.9081	10.070				0.9723	
1,2,3,4,7,8-HxCDD			NO	1.0334	10.070				0.122	
1,2,3,6,7,8-HxCDD			NO	0.0023	10.070				0.119	
1,2,3,7,8,9-HxCDD			NO	0.0000	10.070				0.148	
1,2,3,4,6,8-HpCDD			NO	0.0630	10.070				0.210	
OCDF										
2,3,7,8-TCDF			NO	0.7510	10.070				0.0795	
1,2,3,7,8-PeCDF			NO	0.0025	10.070				0.0560	
2,3,4,7,8-PeCDF			NO	0.9348	10.070				0.9518	
1,2,3,4,7,8-HxCDF			NO	0.0845	10.070				0.9585	
1,2,3,6,7,8-HxCDF			NO	0.0892	10.070				0.0508	
2,3,4,6,7,8-HxCDF			NO	0.9341	10.070				0.0533	
1,2,3,7,8,9-HxCDF			NO	0.8787	10.070				0.0871	
1,2,3,4,6,8-HpCDF			NO	0.9734	10.070				0.0857	
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.070				0.101	
OCDF			NO	0.0085	10.070				0.164	
13C-2,3,7,8-TCDD	4.82e5	0.75	NO	1.1563	10.070	26.47	1.026	167	84.0	0.326
13C-1,2,3,7,8-PeCDD	4.29e5	0.61	NO	0.8490	10.070	31.46	1.219	198	99.6	0.780
13C-1,2,3,4,7,8-HxCDD	2.74e5	1.30	NO	0.7790	10.070	34.83	1.014	151	75.8	0.863
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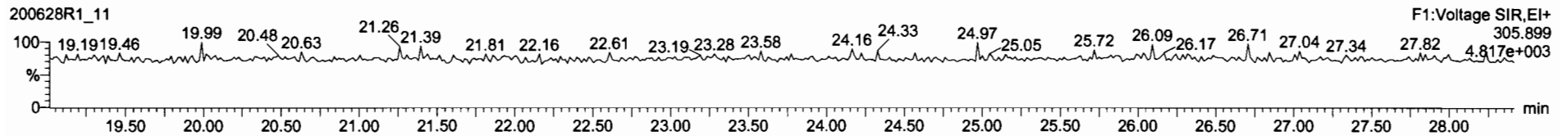
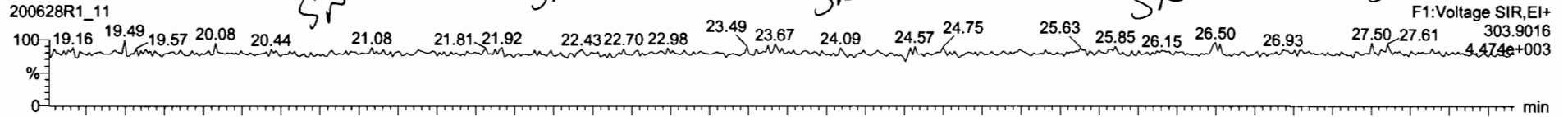


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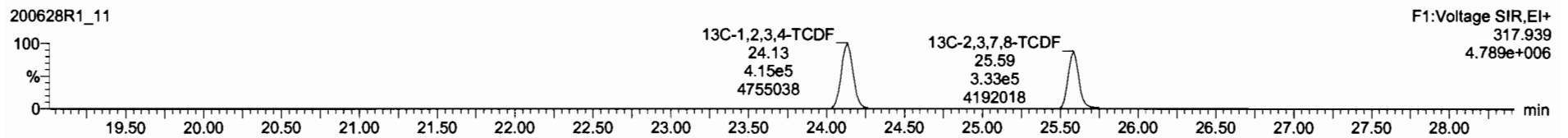
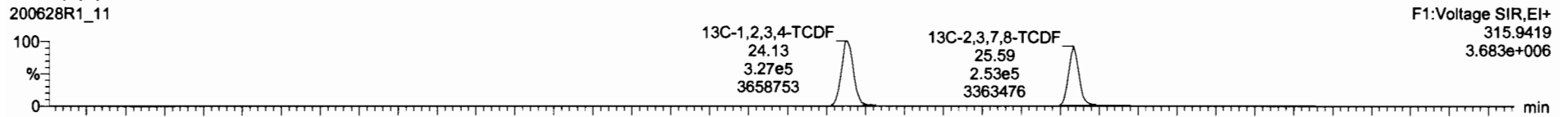
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Name: 200628R1_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

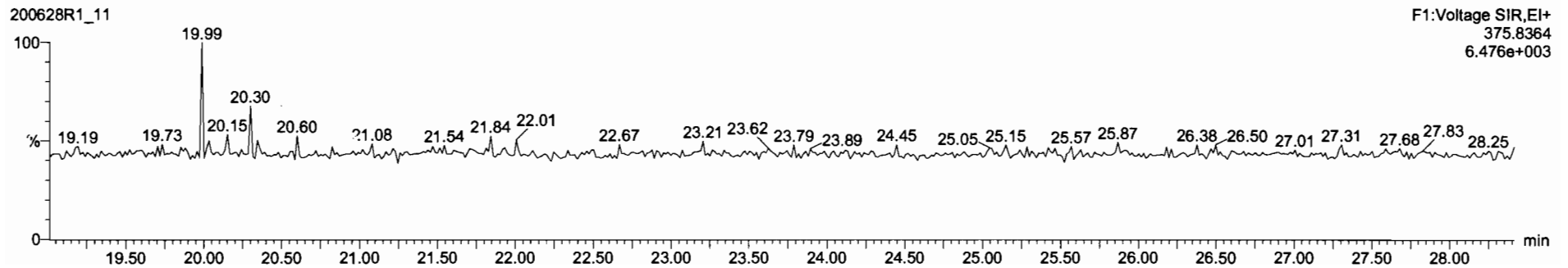
2,3,7,8-TCDF



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



DPE1



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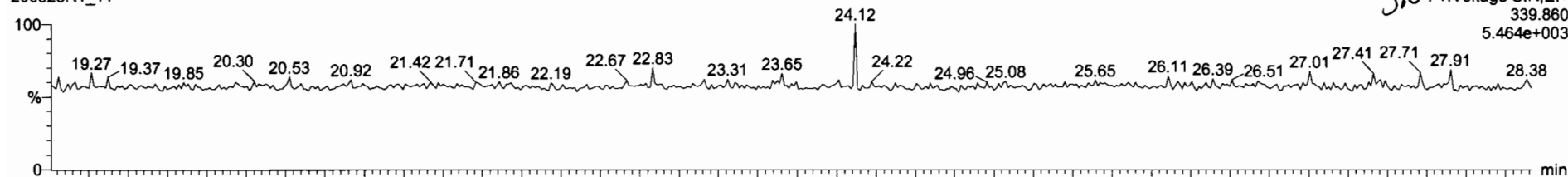
Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time

Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

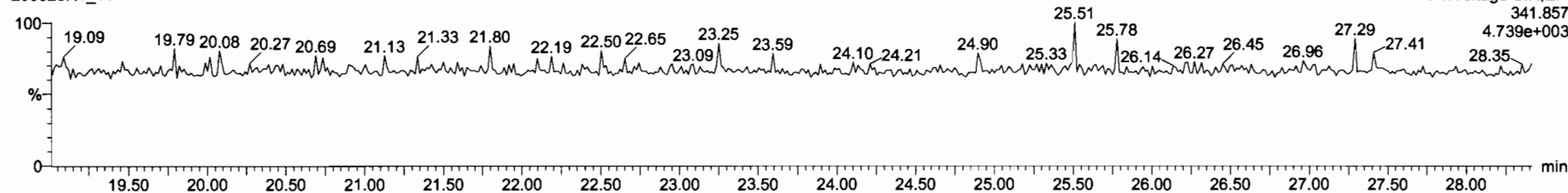
1st Func. Penta-Furans

200628R1_11



F1:Voltage SIR,EI+
339.860
5.464e+003

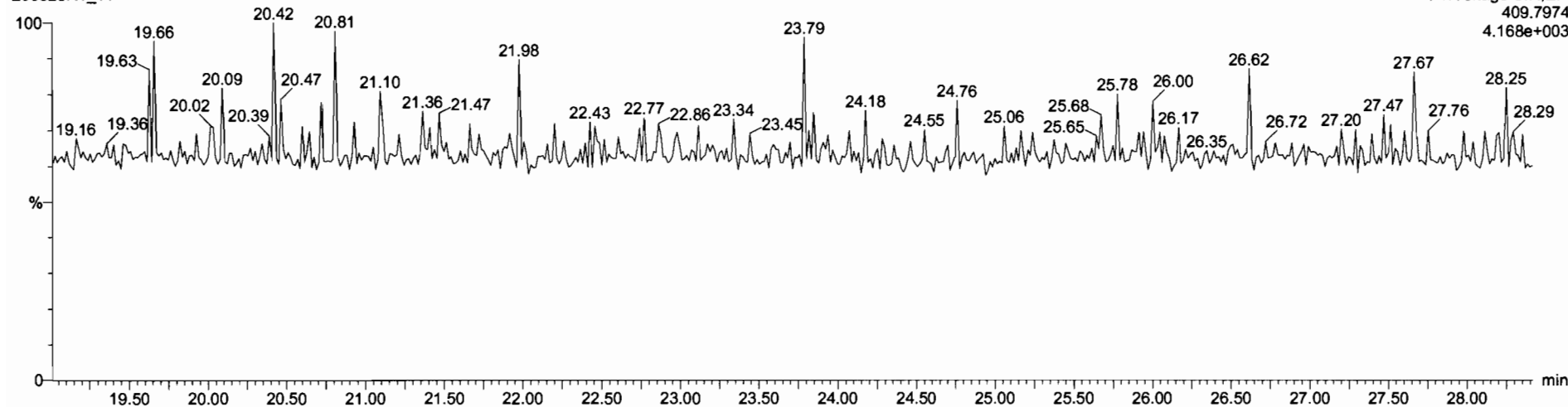
200628R1_11



F1:Voltage SIR,EI+
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4.739e+003

DPE6

200628R1_11



F1:Voltage SIR,EI+
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4.168e+003

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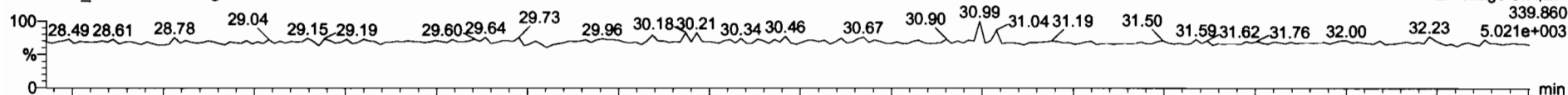
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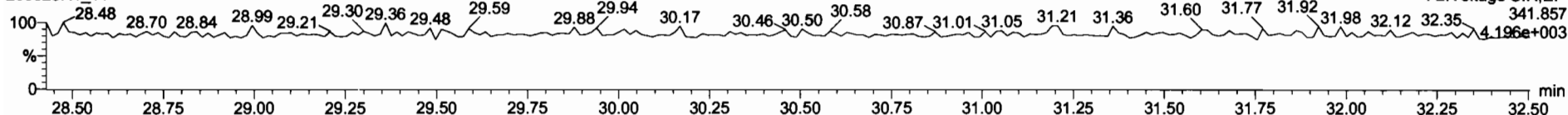
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1,2,3,7,8-PeCDF

200628R1_11

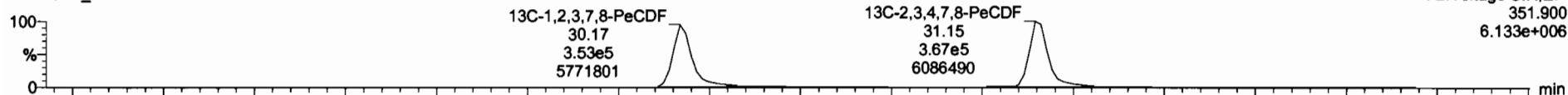


200628R1_11

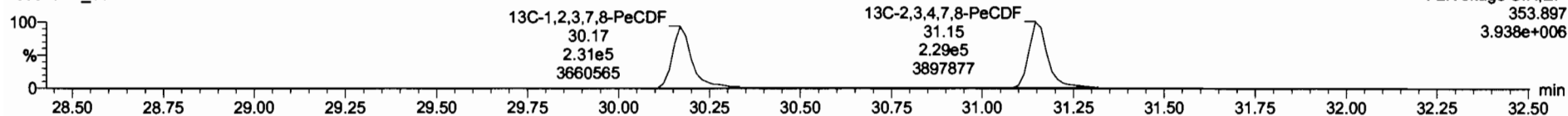


13C-1,2,3,7,8-PeCDF

200628R1_11

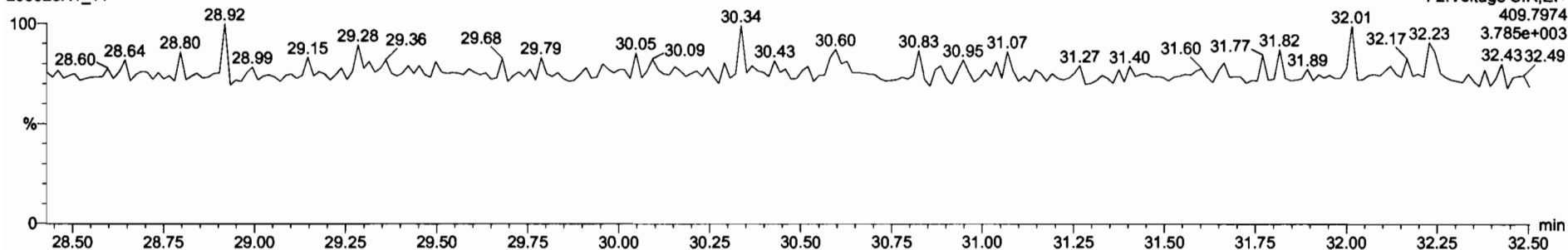


200628R1_11



DPE2

200628R1_11

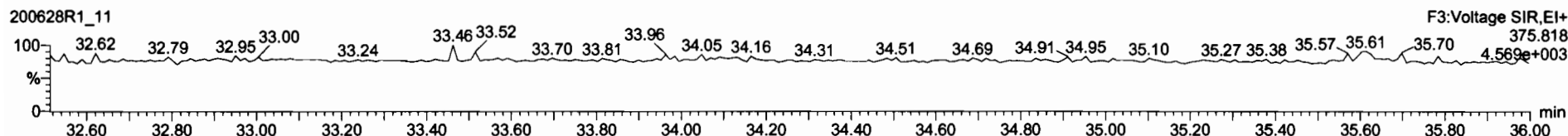
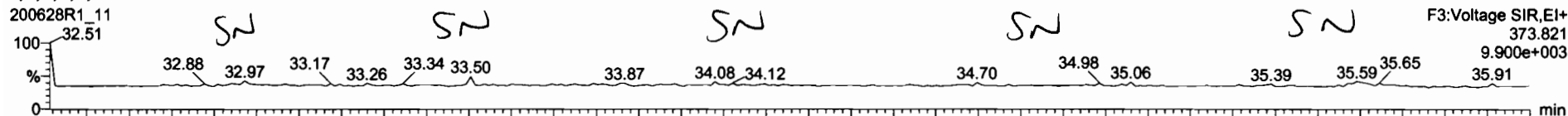


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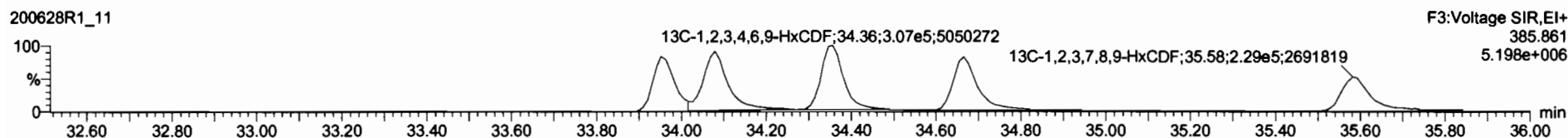
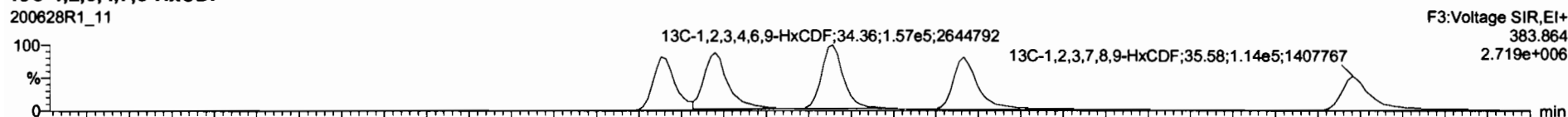
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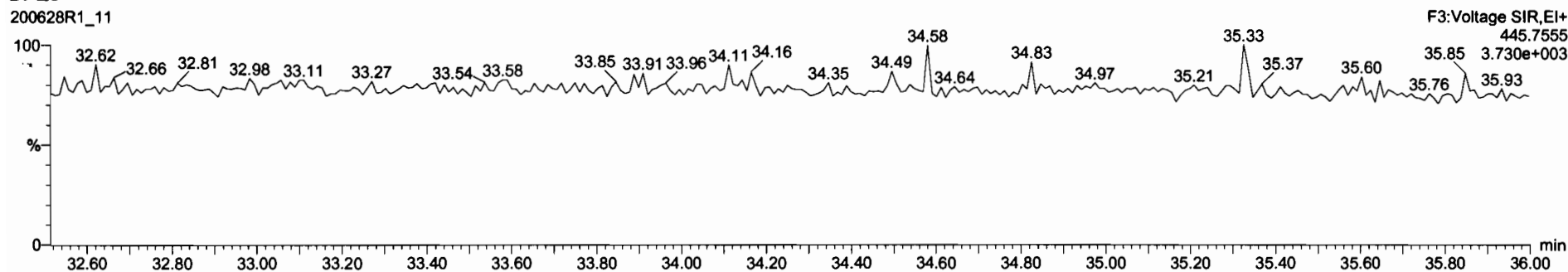
1,2,3,4,7,8-HxCDF



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



DPE3

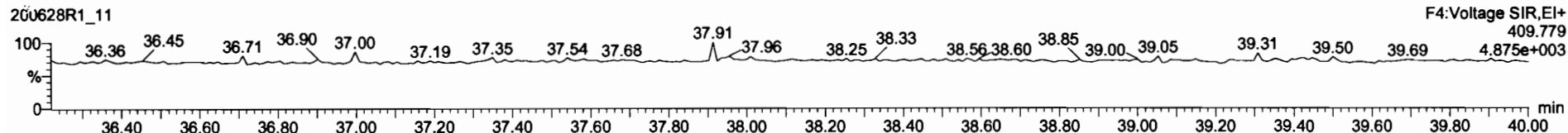
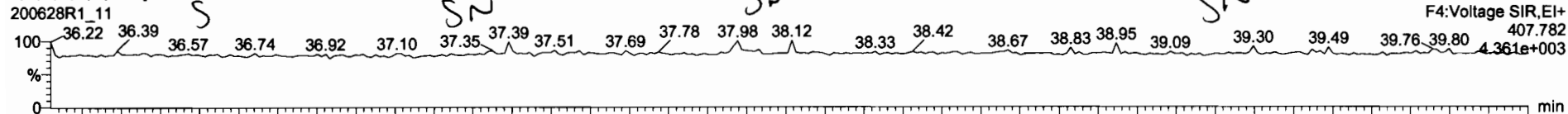


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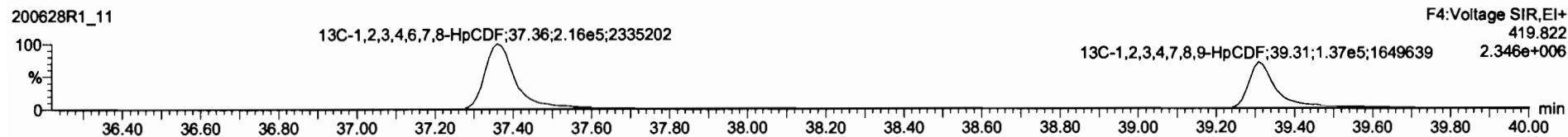
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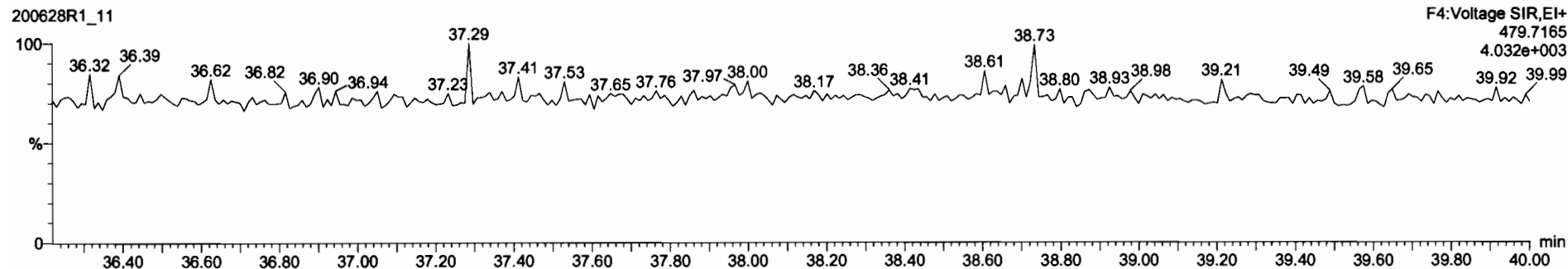
1,2,3,4,6,7,8-HpCDF



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



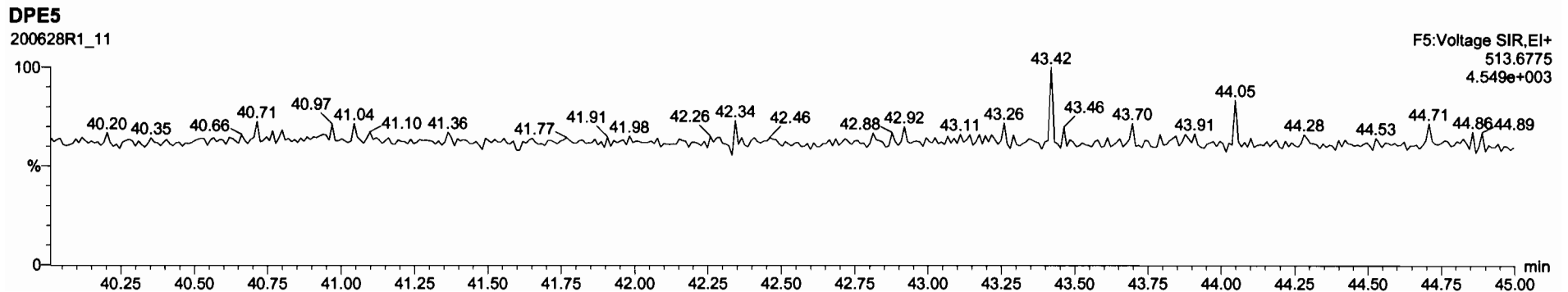
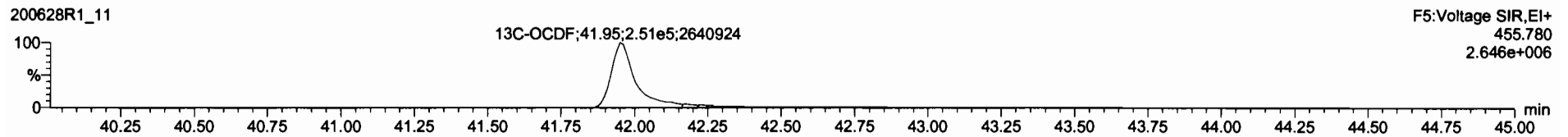
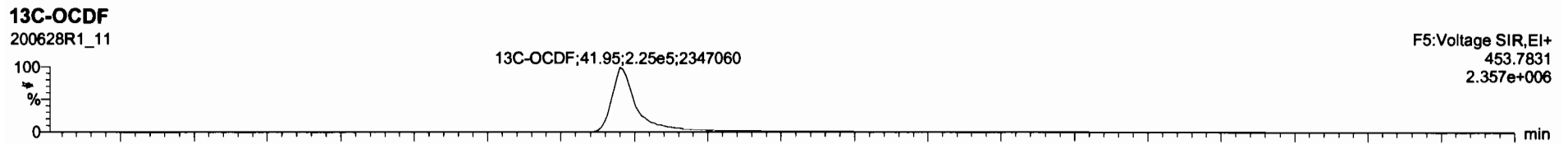
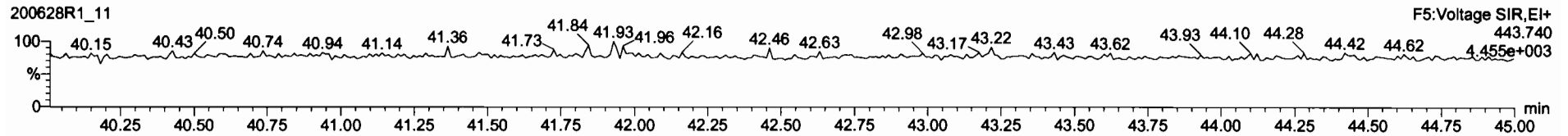
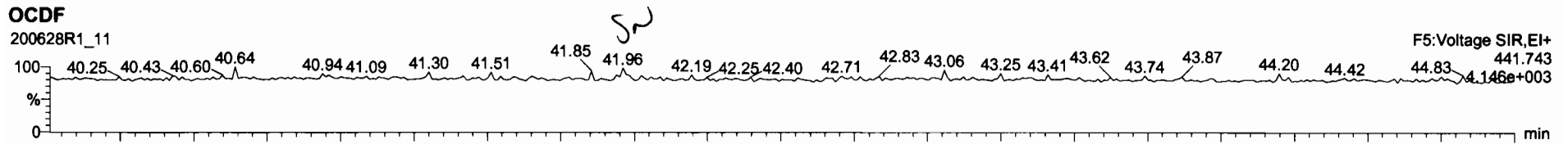
DPE4



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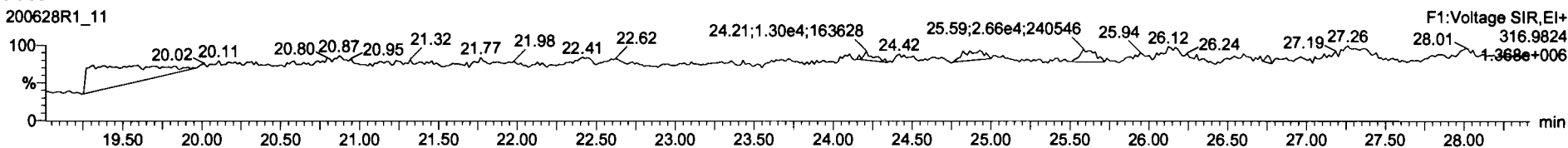
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Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

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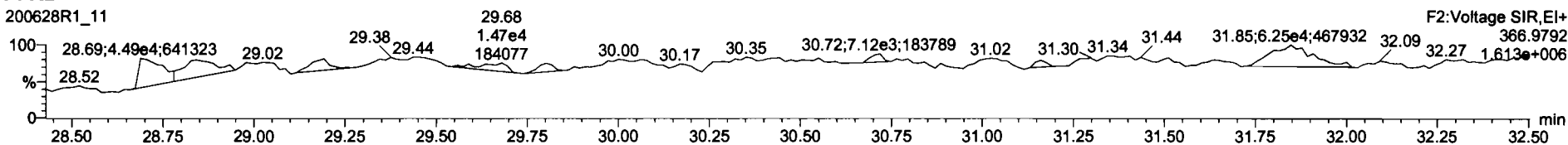
PFK1

200628R1_11



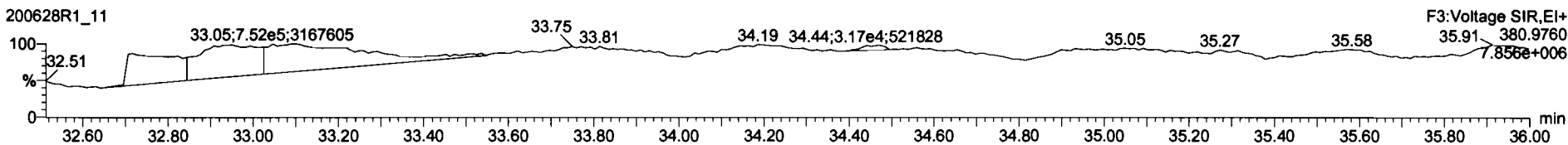
PFK2

200628R1_11



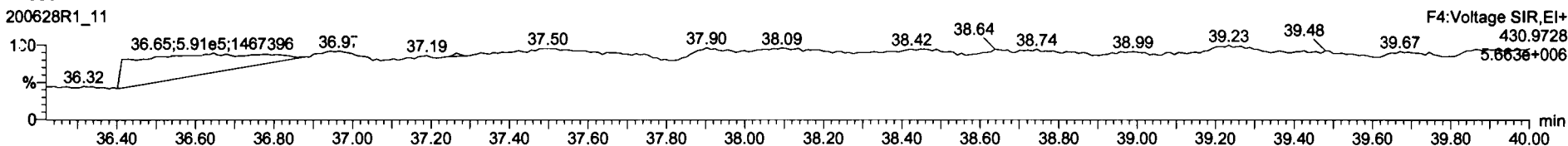
PFK3

200628R1_11



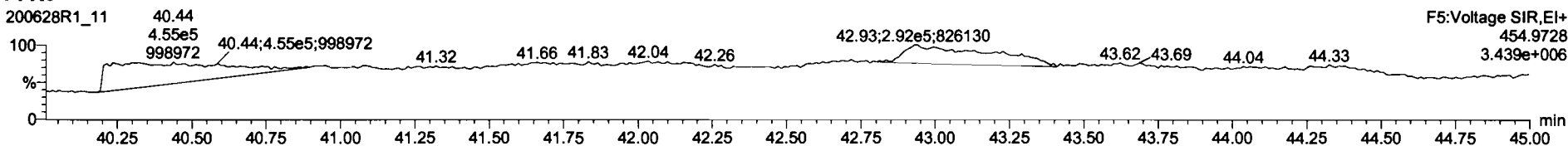
PFK4

200628R1_11



PFK5

200628R1_11



Dataset: U:\VG12.PRO\Results\200628R1\200628R1-12B.qld

Last Altered: Thursday, July 09, 2020 2:57:13 PM Pacific Daylight Time

Printed: Thursday, July 09, 2020 2:57:56 PM Pacific Daylight Time

GPB 07/09/2020

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

CT 07/09/2020

Name: 200628R1_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 11.49, Description: Duplicate

GPB 07/09/2020

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.888	11.490 <i>10.0575</i>	26.515		1.001				0.124	
2	2 1,2,3,7,8-PeCDD			NO	0.908	11.490	31.473		1.001				0.106	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	11.490	34.846		1.000				0.135	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	11.490	34.942		1.000				0.121	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	11.490	35.241		1.000				0.150	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	11.490	38.778		1.000				0.300	
7	7 OCDD	1.83e3	0.86	NO	0.914	11.490	41.759	41.77	1.000	1.000	1.8948		0.307	1.89
8	8 2,3,7,8-TCDF			NO	0.751	11.490	25.612		1.001				0.0742	
9	9 1,2,3,7,8-PeCDF			NO	0.893	11.490	30.190		1.001				0.0473	
10	10 2,3,4,7,8-PeCDF			NO	0.935	11.490	31.192		1.001				0.0410	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	11.490	33.962		1.000				0.0613	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	11.490	34.089		1.000				0.0594	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	11.490	34.700		1.001				0.0639	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	11.490	35.581		1.000				0.0978	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	11.490	37.408		1.001				0.138	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	11.490	39.320		1.000				0.179	
17	17 OCDF			NO	0.806	11.490	41.950		1.000				0.159	
18	18 13C-2,3,7,8-TCDD	5.05e5	0.77	NO	1.16	11.490	26.507	26.48	1.026	1.025	164.70	83.1	0.321	
19	19 13C-1,2,3,7,8-PeCDD	4.52e5	0.66	NO	0.849	11.490	31.692	31.45	1.227	1.218	200.72	101	0.510	
20	20 13C-1,2,3,4,7,8-HxCDD	2.97e5	1.26	NO	0.779	11.490	34.840	34.84	1.014	1.014	156.64	79.0	1.19	
21	21 13C-1,2,3,6,7,8-HxCDD	4.25e5	1.17	NO	1.02	11.490	34.954	34.94	1.017	1.017	171.48	86.5	0.909	
22	22 13C-1,2,3,7,8,9-HxCDD	3.70e5	1.10	NO	0.903	11.490	35.225	35.23	1.025	1.025	168.34	84.9	1.02	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.57e5	1.07	NO	0.689	11.490	38.750	38.77	1.128	1.128	153.13	77.2	0.770	
24	24 13C-OCDD	4.19e5	0.92	NO	0.652	11.490	41.773	41.76	1.216	1.215	263.44	66.4	1.07	
25	25 13C-2,3,7,8-TCDF	5.68e5	0.77	NO	1.06	11.490	25.549	25.59	0.989	0.991	139.92	70.6	0.493	
26	26 13C-1,2,3,7,8-PeCDF	6.22e5	1.62	NO	0.838	11.490	30.076	30.17	1.165	1.168	193.76	97.7	0.786	
27	27 13C-2,3,4,7,8-PeCDF	6.50e5	1.60	NO	0.817	11.490	31.029	31.16	1.202	1.207	207.71	105	0.807	
28	28 13C-1,2,3,4,7,8-HxCDF	3.96e5	0.51	NO	1.01	11.490	33.971	33.96	0.989	0.989	161.31	81.4	1.04	
29	29 13C-1,2,3,6,7,8-HxCDF	4.72e5	0.52	NO	1.17	11.490	34.095	34.08	0.992	0.992	165.94	83.7	0.899	
30	30 13C-2,3,4,6,7,8-HxCDF	4.39e5	0.51	NO	1.02	11.490	34.669	34.67	1.009	1.009	176.41	89.0	1.03	

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-12B.qld

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Printed: Thursday, July 09, 2020 2:57:56 PM Pacific Daylight Time

Name: 200628R1_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 11.49, Description: Duplicate

GRB 07/09/2020

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	3.52e5	0.50	NO	0.860	11.490	35.569	35.58	1.035	1.036	167.91	84.7	1.22	
32	13C-1,2,3,4,6,7,8-HpCDF	3.27e5	0.42	NO	0.774	11.490	37.317	37.37	1.086	1.088	173.02	87.3	0.985	
33	13C-1,2,3,4,7,8,9-HpCDF	2.11e5	0.45	NO	0.521	11.490	39.348	39.32	1.145	1.144	166.27	83.9	1.46	
34	13C-OCDF	5.06e5	0.84	NO	0.746	11.490	41.945	41.95	1.221	1.221	278.27	70.2	0.827	
35	37Cl-2,3,7,8-TCDD	1.92e5			1.04	11.490	26.538	26.51	1.028	1.027	70.017	88.3	0.158	
36	13C-1,2,3,4-TCDD	5.26e5	0.79	NO	1.00	11.490	25.890	25.83	1.000	1.000	198.27	100	0.371	
37	13C-1,2,3,4-TCDF	7.60e5	0.80	NO	1.00	11.490	24.360	24.13	1.000	1.000	198.27	100	0.522	
38	13C-1,2,3,4,6,9-HxCDF	4.83e5	0.52	NO	1.00	11.490	34.420	34.36	1.000	1.000	198.27	100	1.05	
39	Total Tetra-Dioxins				0.888	11.490	24.620		0.000				0.0753	
40	Total Penta-Dioxins				0.908	11.490	29.960		0.000				0.0559	
41	Total Hexa-Dioxins				0.892	11.490	33.635		0.000		0.00000		0.0751	0.236
42	Total Hepta-Dioxins				0.864	11.490	37.640		0.000				0.179	
43	Total Tetra-Furans				0.751	11.490	23.610		0.000				0.0255	
44	1st Func. Penta-Furans				0.893	11.490	27.580		0.000				0.0175	
45	Total Penta-Furans				0.893	11.490	29.275		0.000				0.0207	
46	Total Hexa-Furans				0.934	11.490	33.555		0.000				0.0385	
47	Total Hepta-Furans				0.873	11.490	37.835		0.000				0.0815	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-12B.qld

Last Altered: Thursday, July 09, 2020 2:57:13 PM Pacific Daylight Time

Printed: Thursday, July 09, 2020 2:57:56 PM 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: 200628R1_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 11.49, Description: Duplicate

Tetra-Dioxins

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

Penta-Dioxins

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

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	5.150e3	4.367e3	2.138e2	2.045e2	1.05	YES	0.000e0	0.00000	0.23556	0.140

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\200628R1\200628R1-12B.qld

Last Altered: Thursday, July 09, 2020 2:57:13 PM Pacific Daylight Time

Printed: Thursday, July 09, 2020 2:57:56 PM Pacific Daylight Time

Name: 200628R1_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 11.49, Description: Duplicate

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

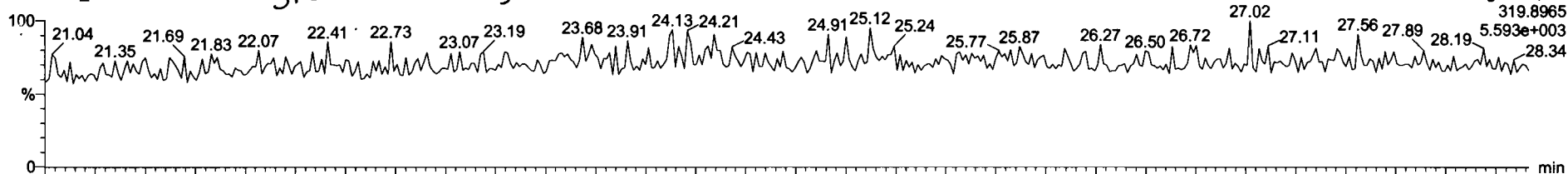
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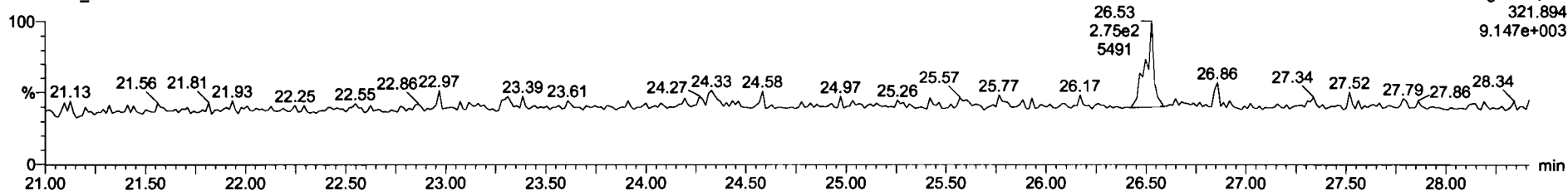
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2,3,7,8-TCDD

200628R1_12

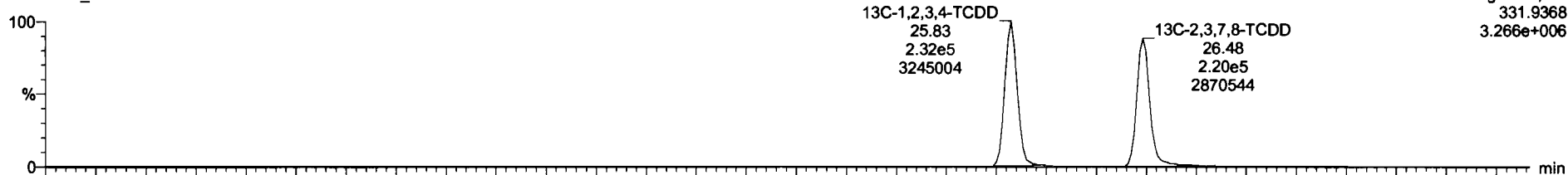


200628R1_12

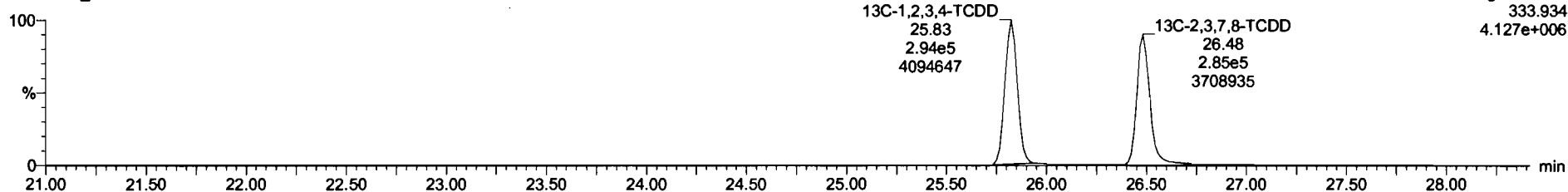


13C-2,3,7,8-TCDD

200628R1_12



200628R1_12



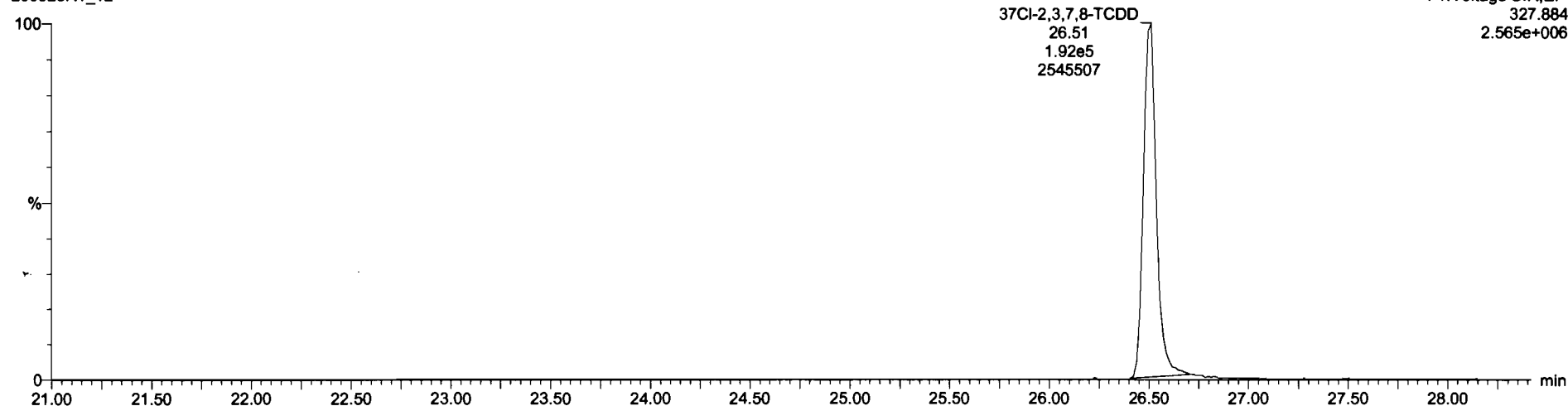
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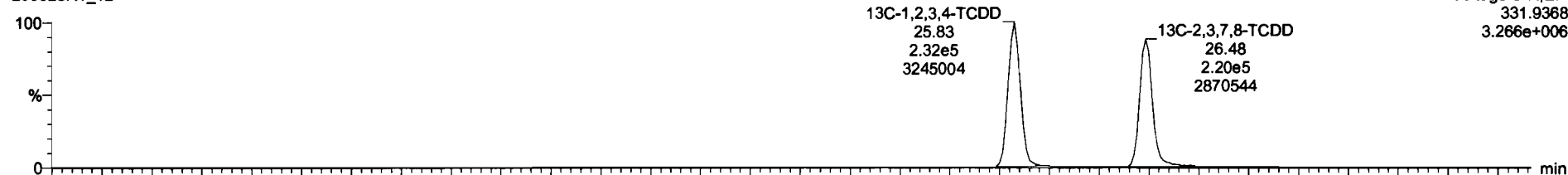
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200628R1_12

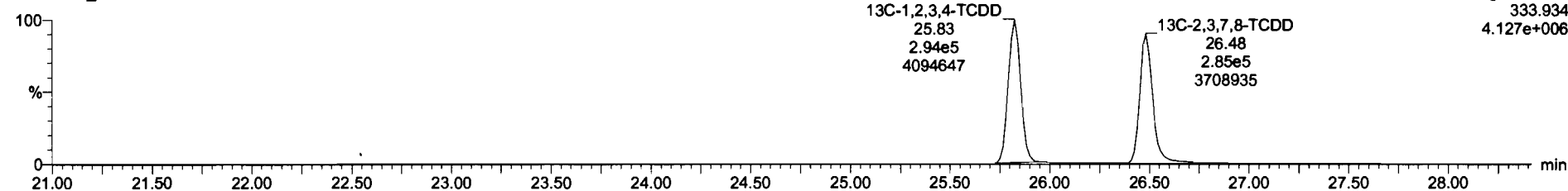


13C-1,2,3,4-TCDD

200628R1_12



200628R1_12



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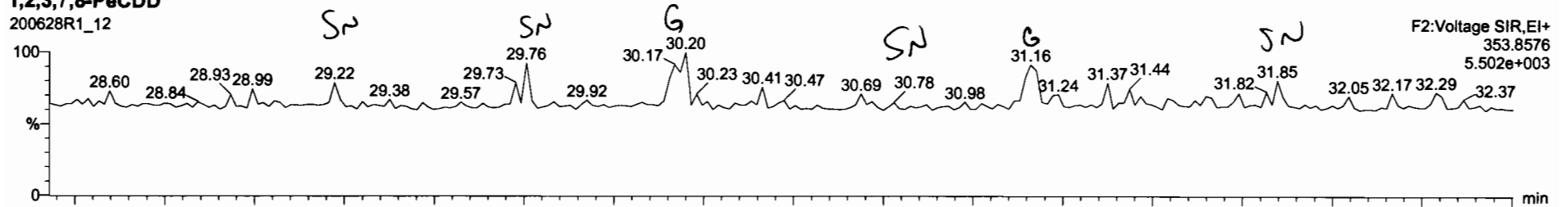
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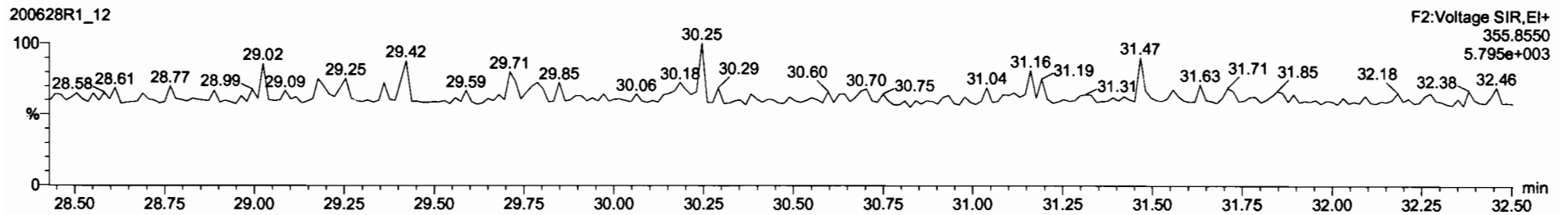
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1,2,3,7,8-PeCDD

200628R1_12

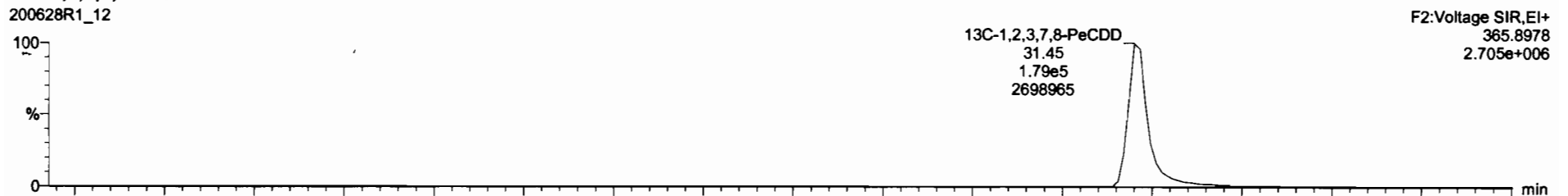


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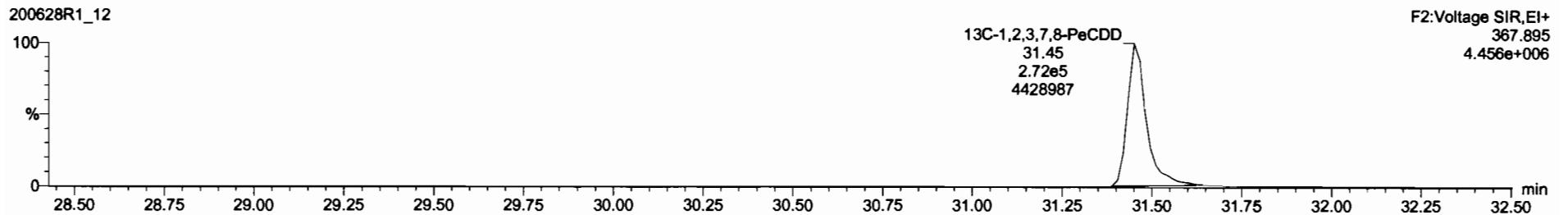


13C-1,2,3,7,8-PeCDD

200628R1_12



200628R1_12



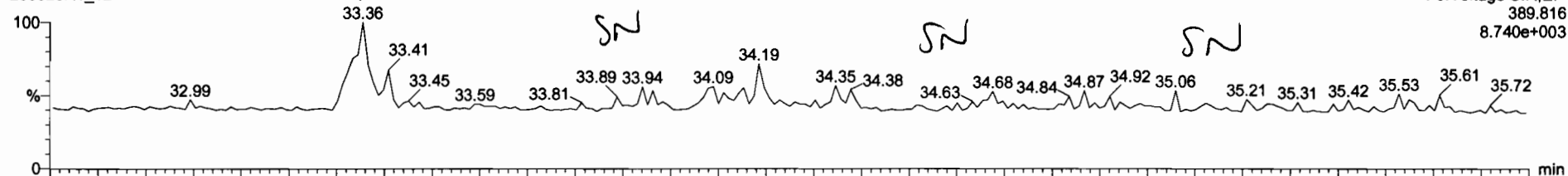
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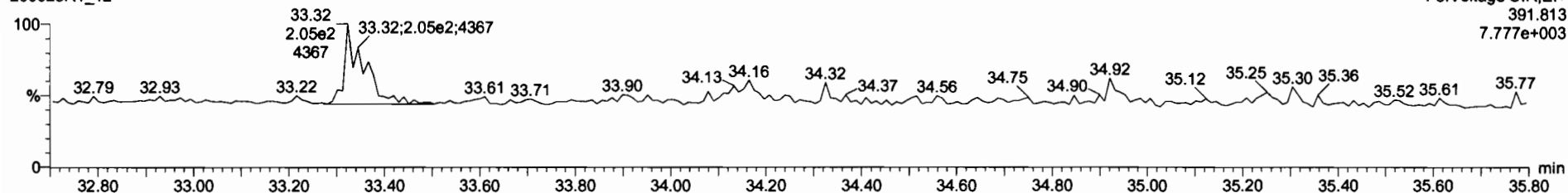
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1,2,3,4,7,8-HxCDD

200628R1_12



200628R1_12

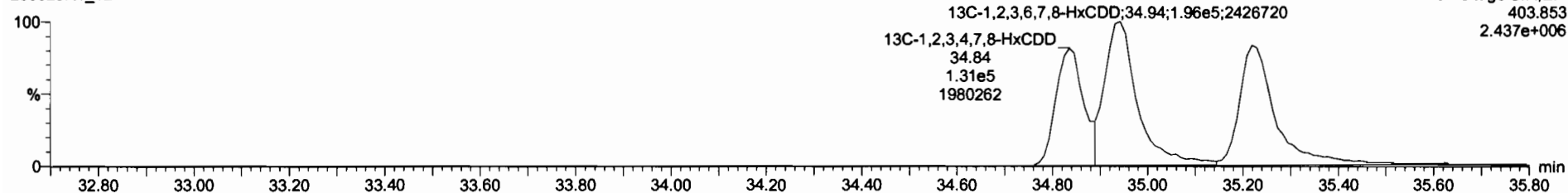


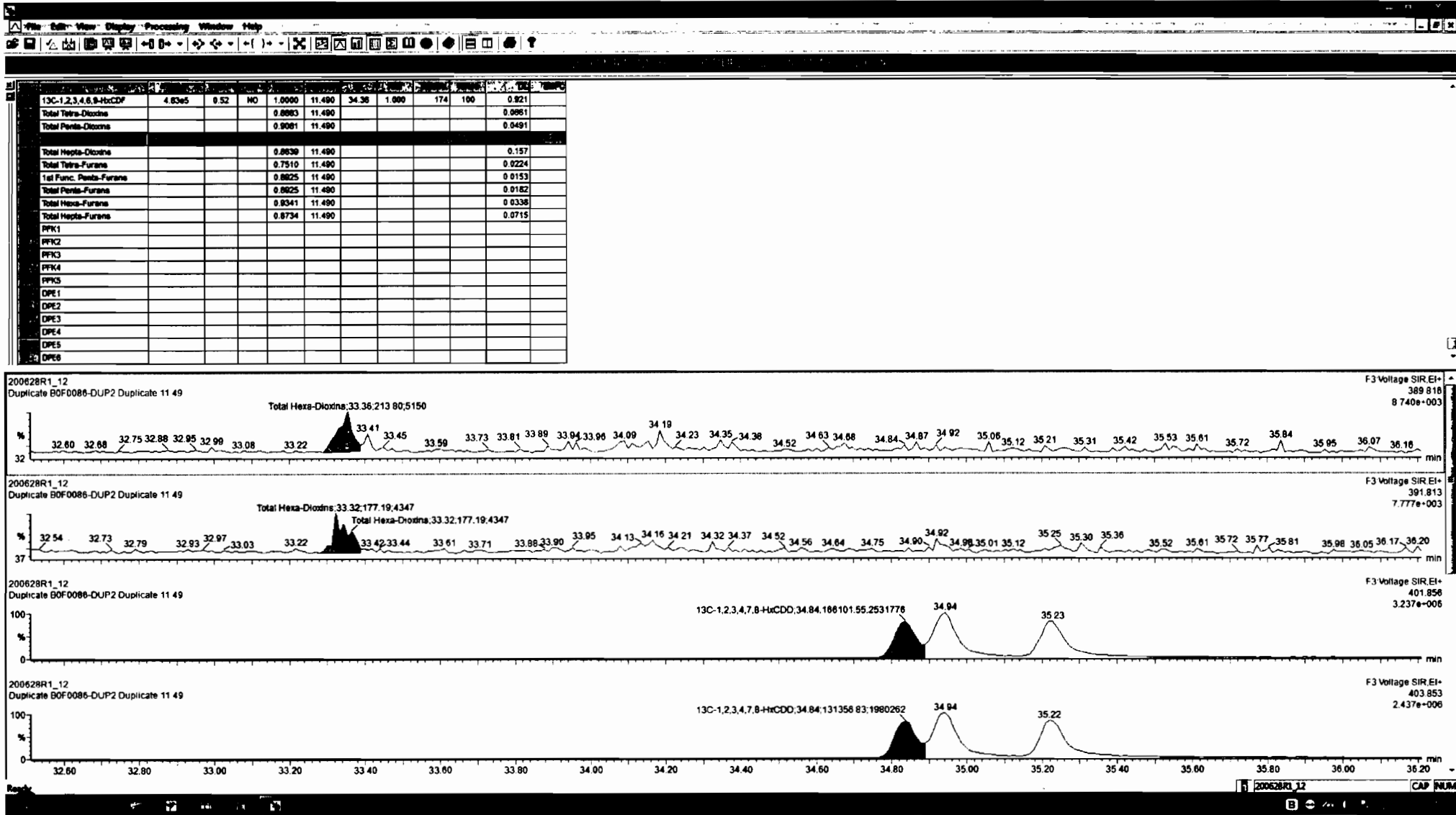
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200628R1_12



200628R1_12





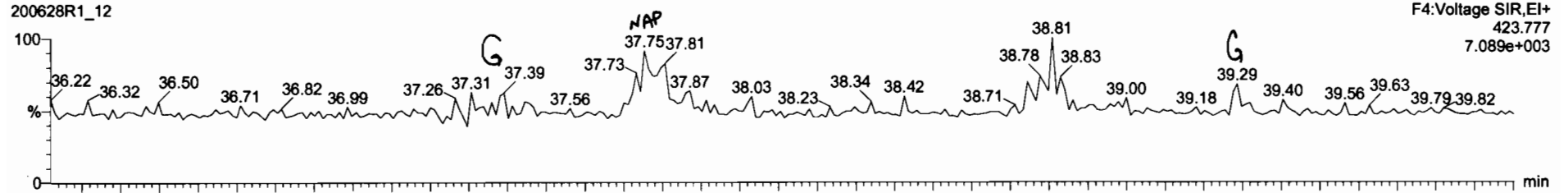
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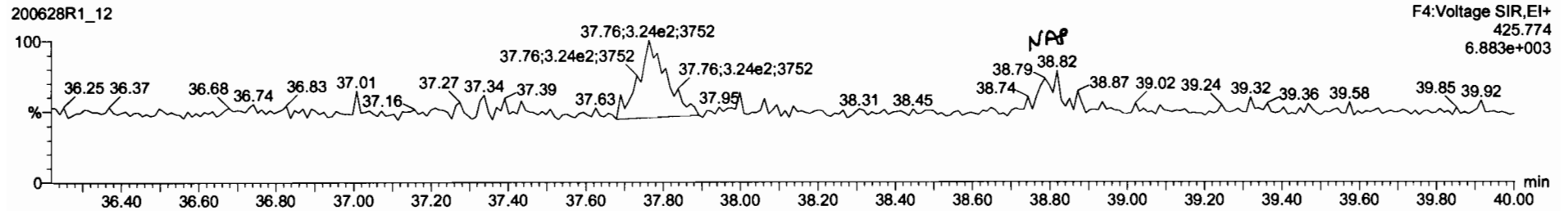
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1,2,3,4,6,7,8-HpCDD

200628R1_12

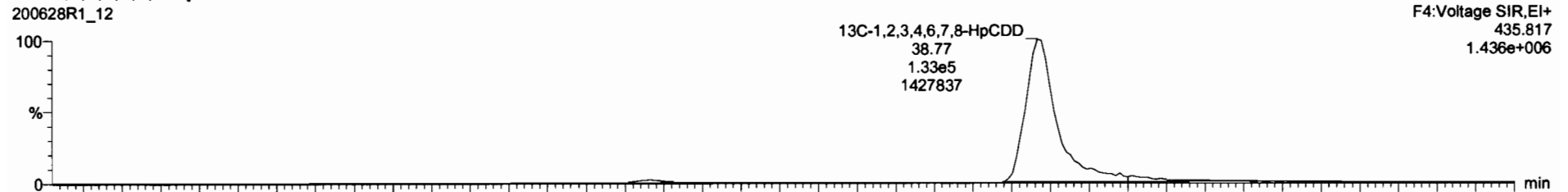


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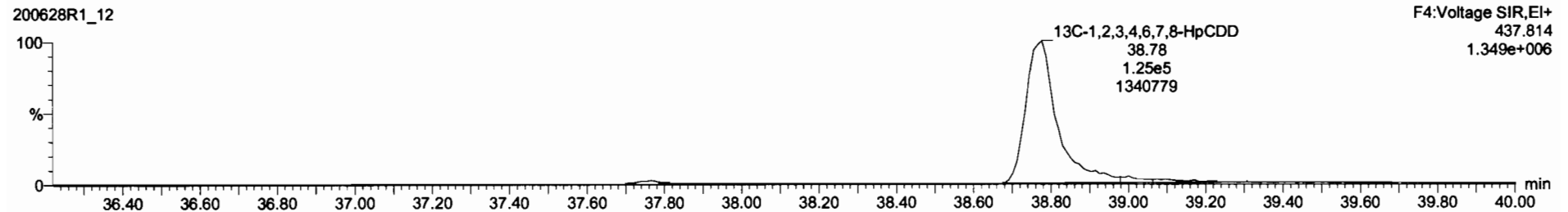


13C-1,2,3,4,6,7,8-HpCDD

200628R1_12



200628R1_12

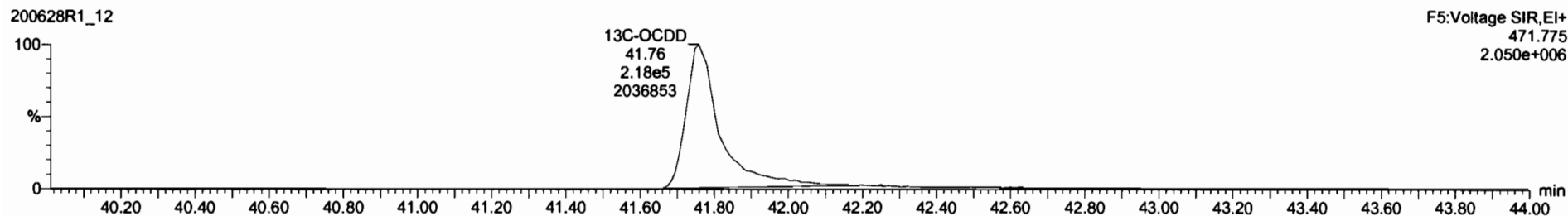
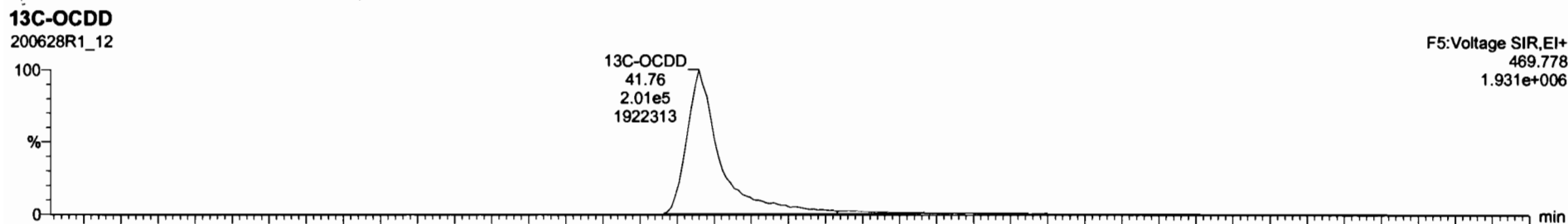
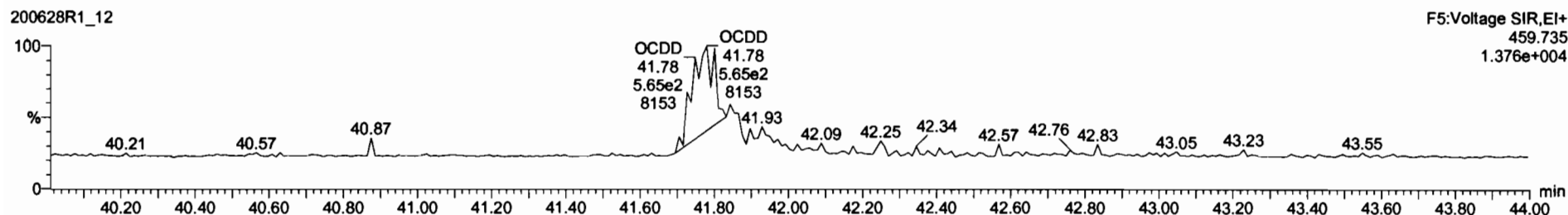
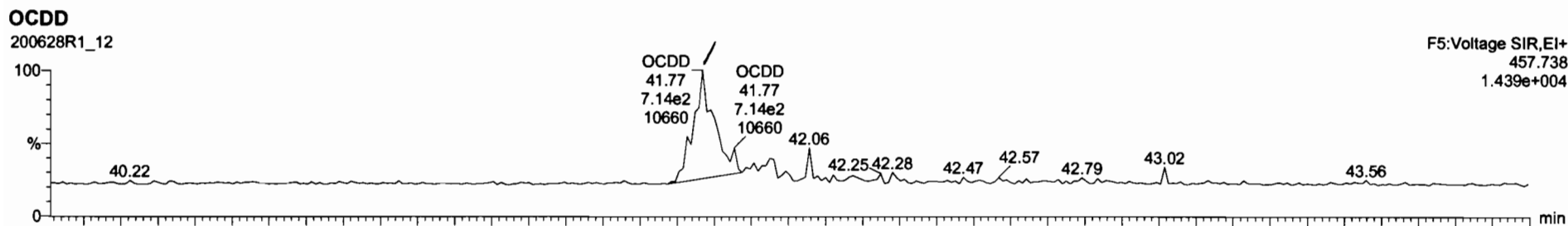


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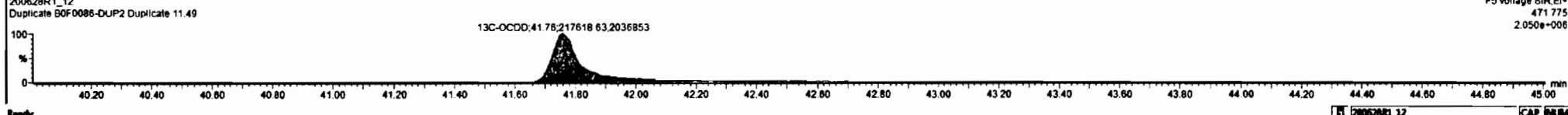
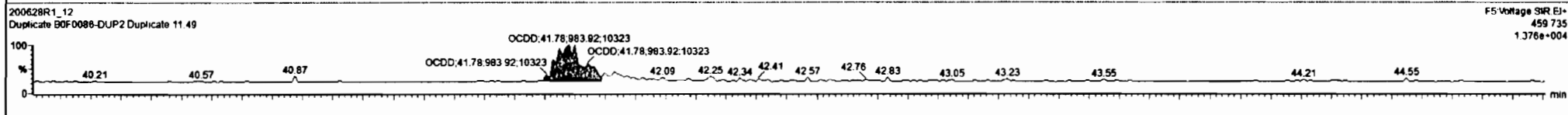
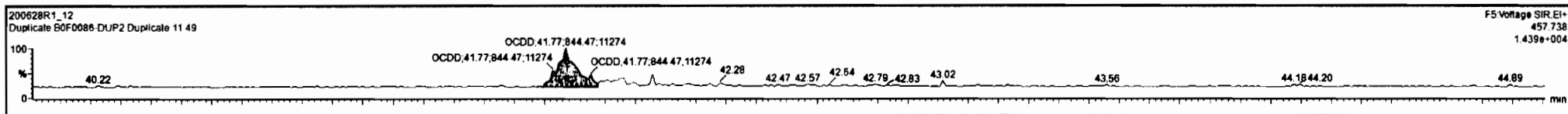
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Name: 200628R1_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 11.49, Description: Duplicate



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1,2,3,7,8-PeCDD			NO	0.9061	11.490															0.9927
1,2,3,4,7,8-HxCDD			NO	1.0334	11.490															0.119
1,2,3,6,7,8-HxCDD			NO	0.0623	11.490															0.106
1,2,3,7,8,9-HxCDD			NO	0.0089	11.490															0.132
1,2,3,4,6,7,8-HpCDD			NO	0.0639	11.490															0.264
2,3,7,8-TCDF			NO	0.7510	11.490															0.0851
1,2,3,7,8-PeCDF			NO	0.0625	11.490															0.0415
2,3,4,7,8-PeCDF			NO	0.9348	11.490															0.0360
1,2,3,4,7,8-HxCDF			NO	0.8845	11.490															0.0538
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1,2,3,4,6,7,8-HpCDF			NO	0.8734	11.490															0.121
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OCDF			NO	0.8085	11.490															0.140
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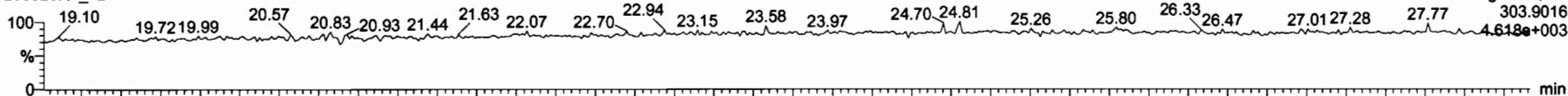
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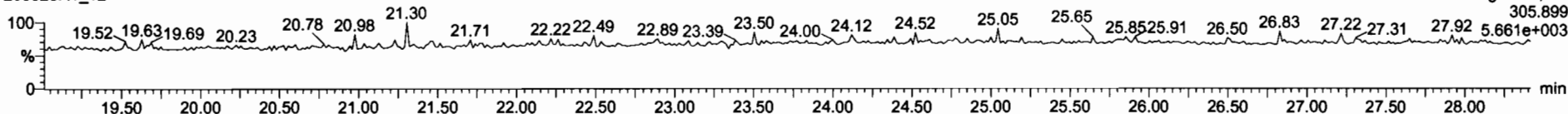
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2,3,7,8-TCDF

200628R1_12

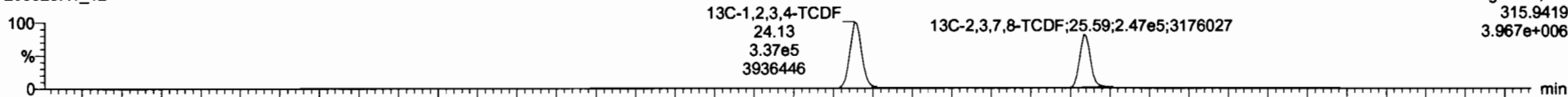


200628R1_12

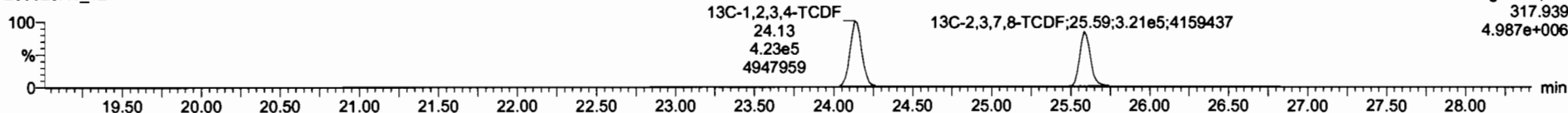


13C-2,3,7,8-TCDF

200628R1_12

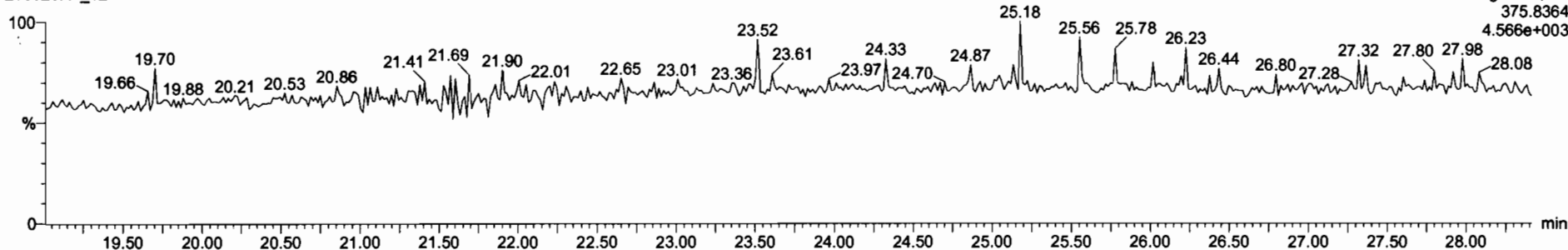


200628R1_12



DPE1

200628R1_12



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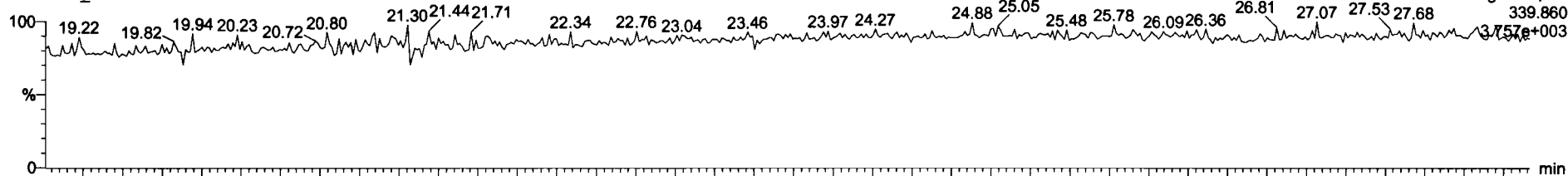
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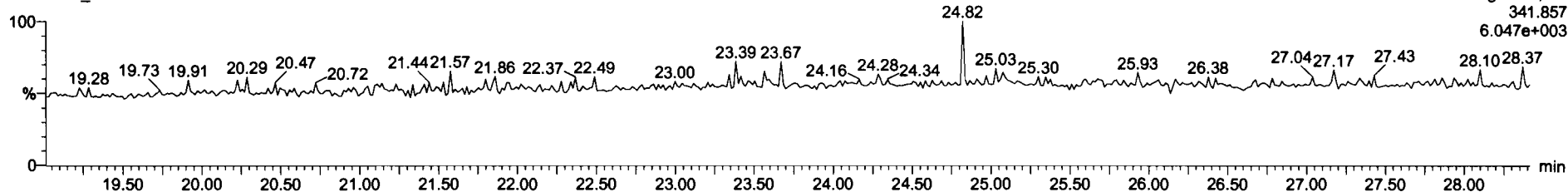
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1st Func. Penta-Furans

200628R1_12

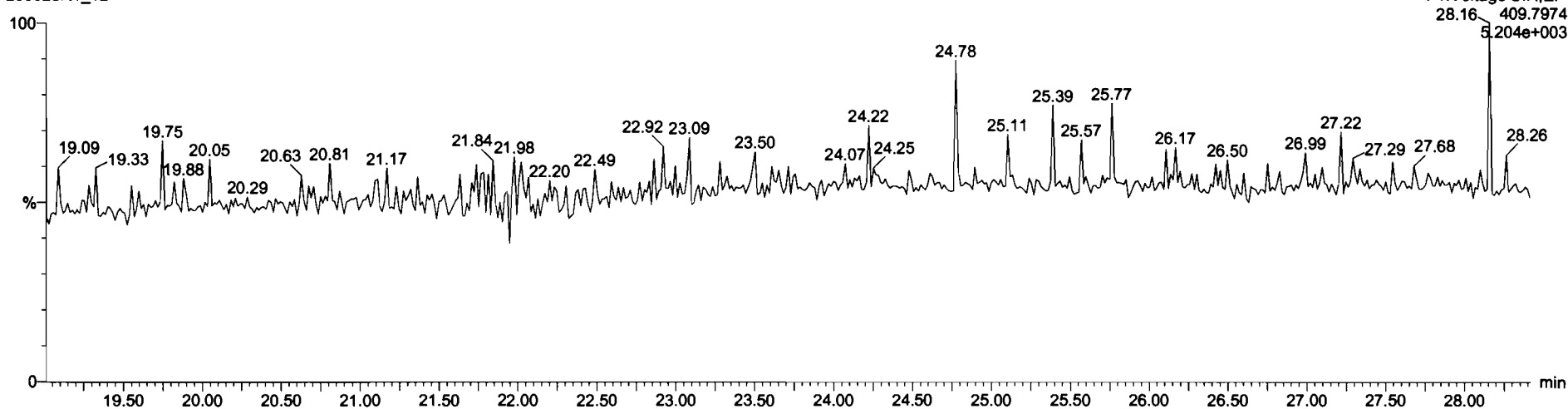


200628R1_12



DPE6

200628R1_12

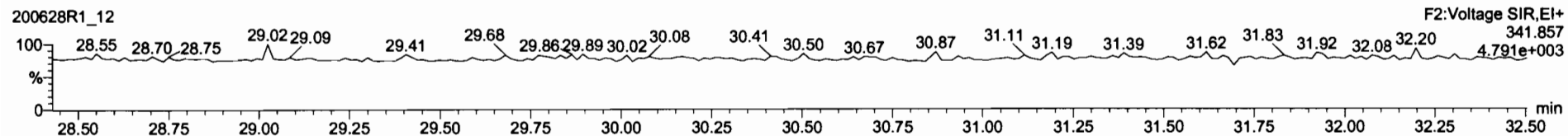
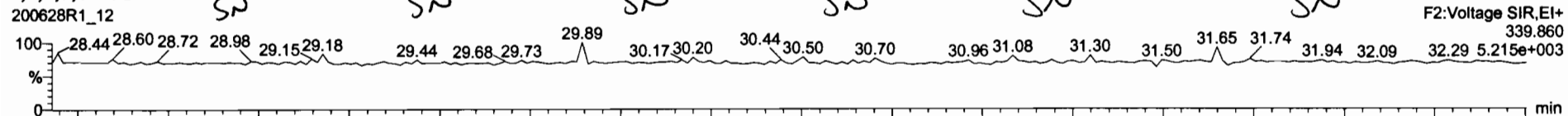


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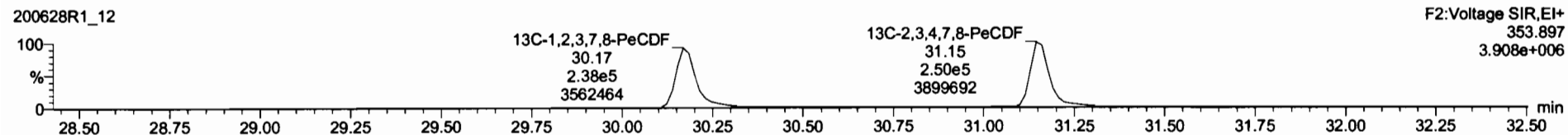
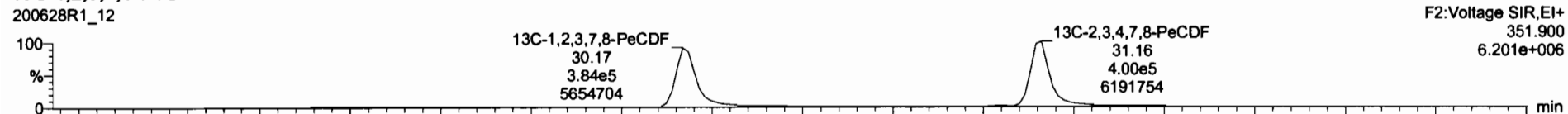
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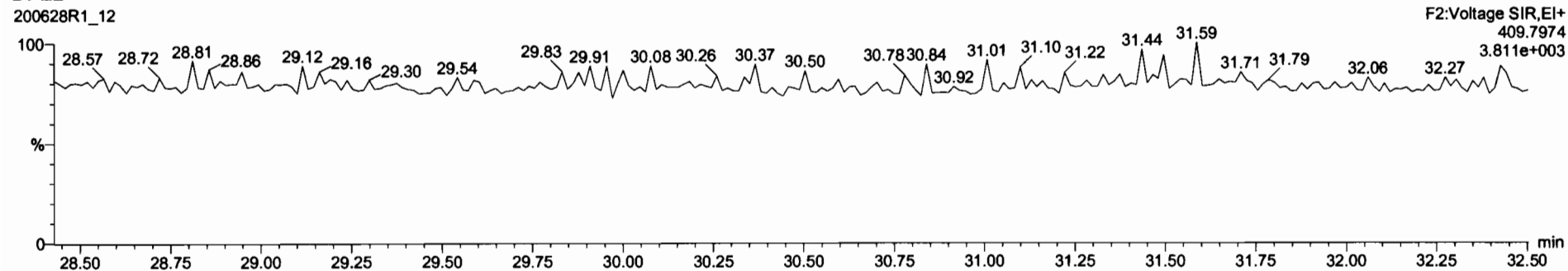
1,2,3,7,8-PeCDF



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



DPE2



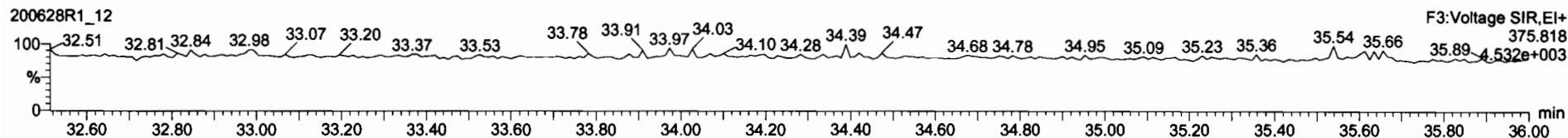
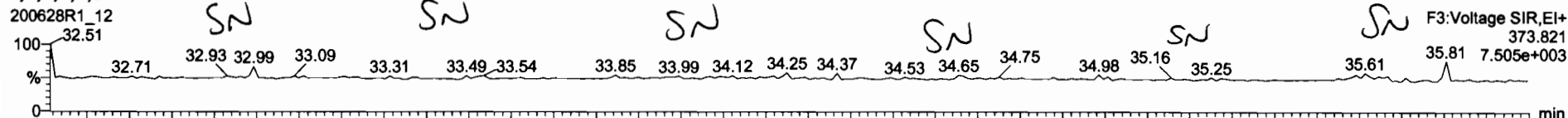
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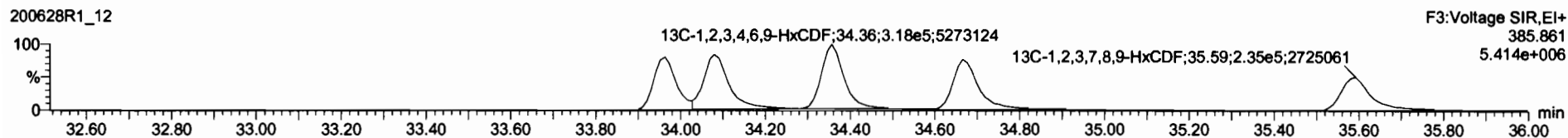
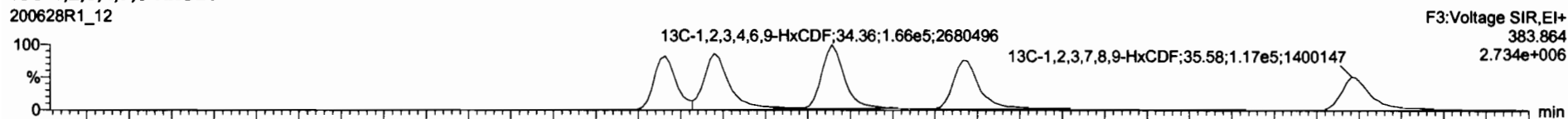
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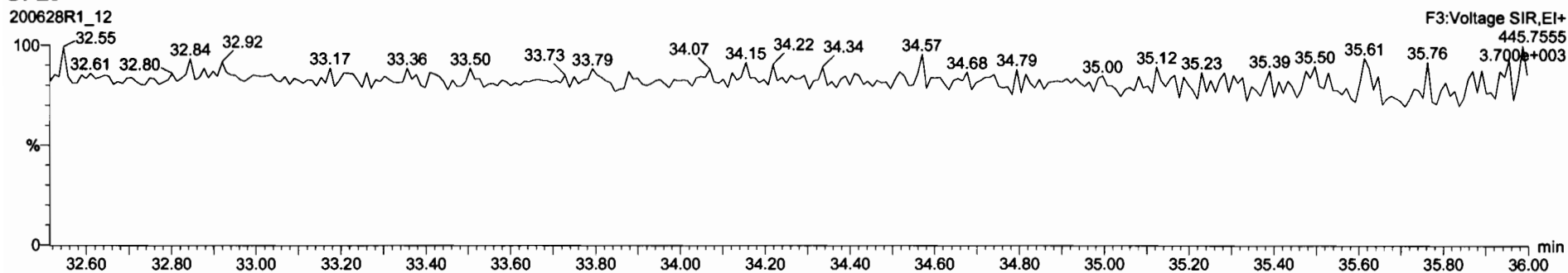
1,2,3,4,7,8-HxCDF



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



DPE3

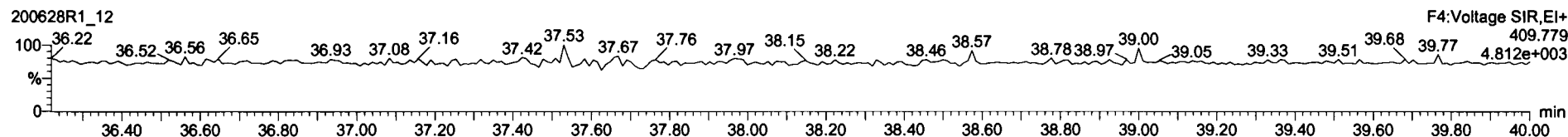
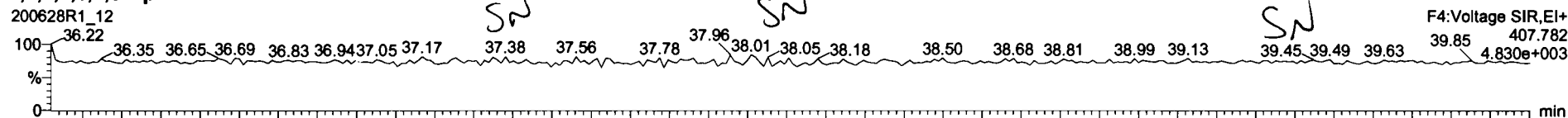


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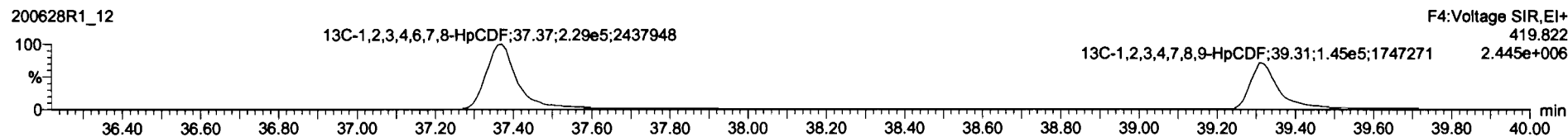
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Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 11.49, Description: Duplicate

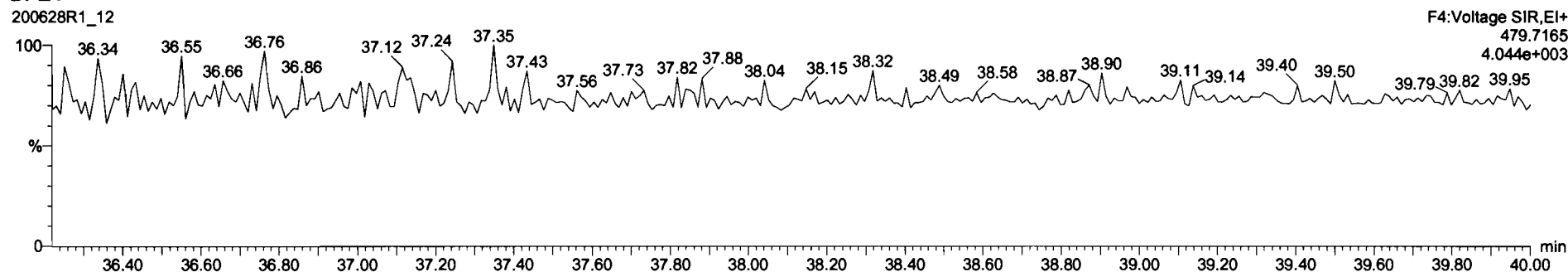
1,2,3,4,6,7,8-HpCDF



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



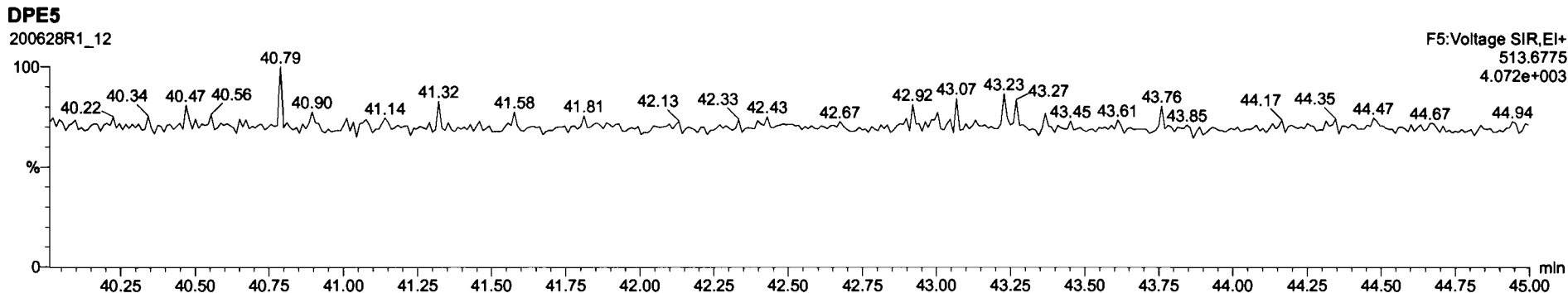
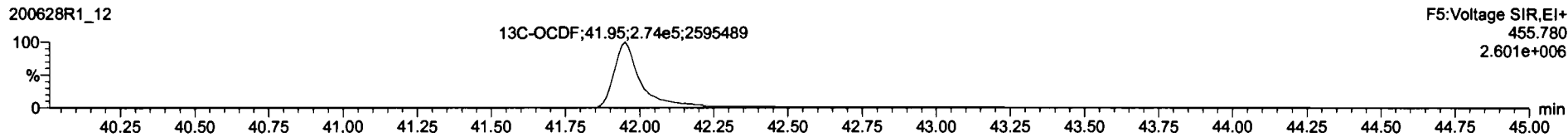
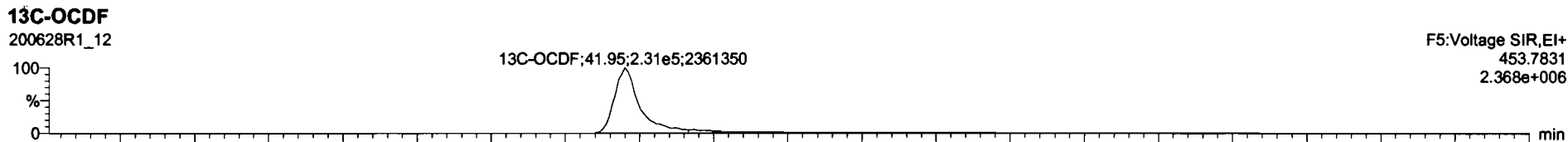
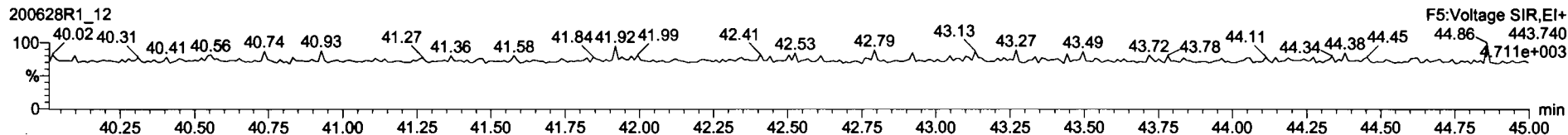
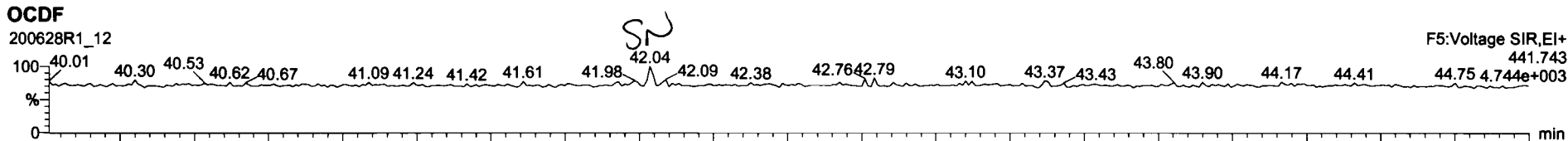
DPE4



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Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

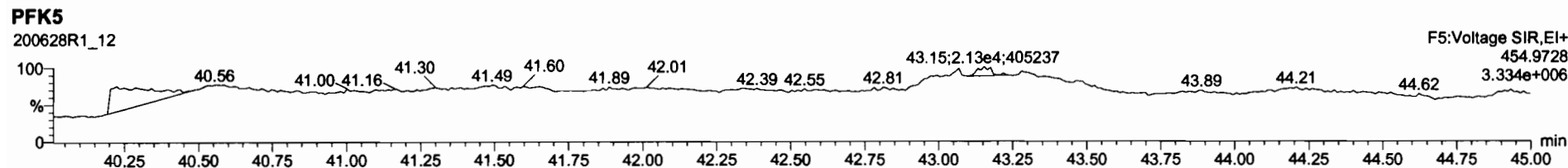
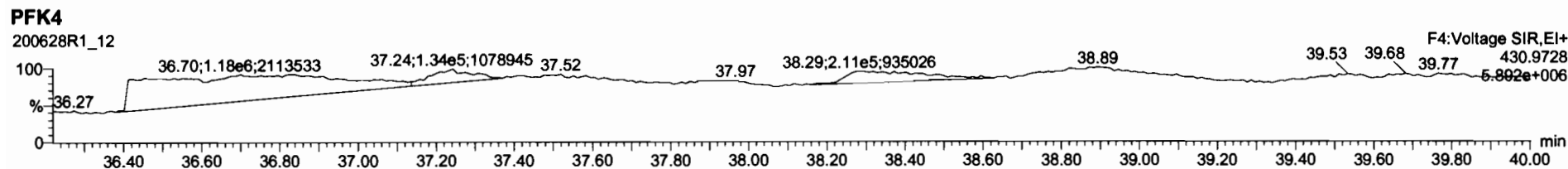
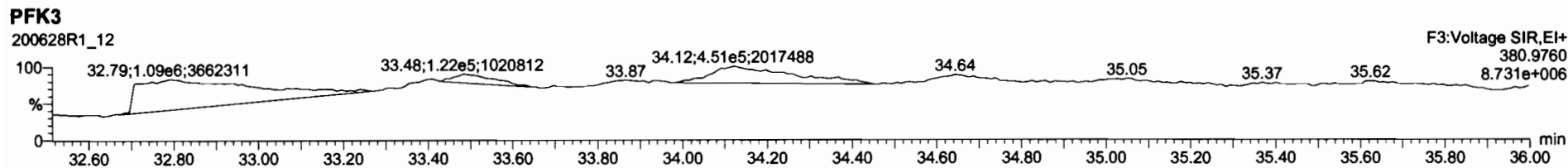
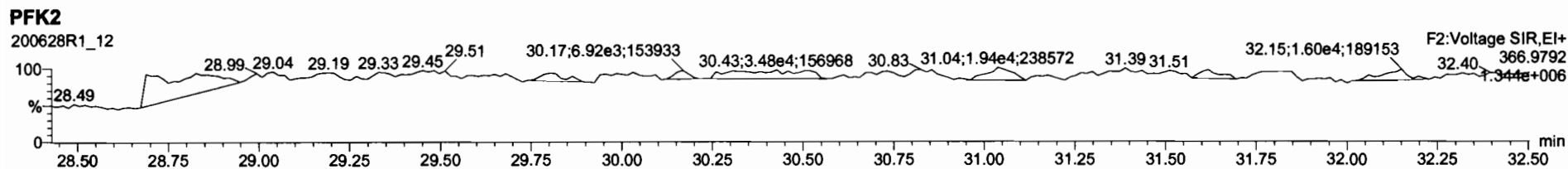
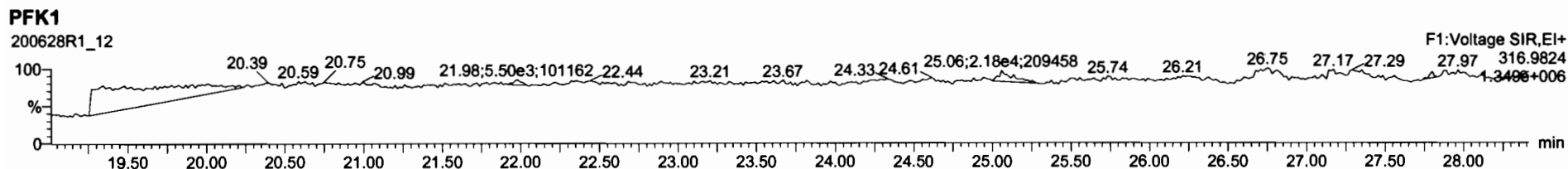
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Dataset: Untitled

Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 11.49, Description: Duplicate



Dataset: U:\VG12.PRO\Results\200628R1\200628R1-13.qld

Last Altered: Monday, July 06, 2020 3:15:34 PM Pacific Daylight Time

Printed: Monday, July 06, 2020 3:16:02 PM Pacific Daylight Time

GPB 07/06/2020

G 07/09/2020

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: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

Peak #	Retention Time (min)	Retention Time (min)	Retention Time (min)	Retention Time (min)	Retention Time (min)	Retention Time (min)	Retention Time (min)	Retention Time (min)	Retention Time (min)	Retention Time (min)	Retention Time (min)	Retention Time (min)	Retention Time (min)	
1	2,3,7,8-TCDD	NO	0.888	10.064	26.516	1.001							0.118	
2	1,2,3,7,8-PeCDD	NO	0.908	10.064	31.473	1.001							0.107	
3	1,2,3,4,7,8-HxCDD	NO	1.03	10.064	34.846	1.000							0.130	
4	1,2,3,6,7,8-HxCDD	NO	0.892	10.064	34.932	1.000							0.117	
5	1,2,3,7,8,9-HxCDD	NO	0.887	10.064	35.230	1.000							0.146	
6	1,2,3,4,6,7,8-HpCDD	NO	0.864	10.064	38.778	1.000							0.227	
7	OCDD	4.86e2	0.99	NO	0.914	10.064	41.759	41.79	1.000	1.001	0.53896		0.350	0.539
8	2,3,7,8-TCDF	NO	0.751	10.064	25.612	1.001							0.0881	
9	1,2,3,7,8-PeCDF	NO	0.893	10.064	30.190	1.001							0.0973	
10	2,3,4,7,8-PeCDF	NO	0.935	10.064	31.177	1.001							0.0864	
11	1,2,3,4,7,8-HxCDF	NO	0.884	10.064	33.952	1.000							0.0796	
12	1,2,3,6,7,8-HxCDF	NO	0.889	10.064	34.090	1.000							0.0730	
13	2,3,4,6,7,8-HxCDF	NO	0.934	10.064	34.701	1.001							0.0828	
14	1,2,3,7,8,9-HxCDF	NO	0.871	10.064	35.582	1.000							0.130	
15	1,2,3,4,6,7,8-HpCDF	NO	0.873	10.064	37.397	1.001							0.114	
16	1,2,3,4,7,8,9-HpCDF	NO	1.01	10.064	39.320	1.000							0.146	
17	OCDF	NO	0.806	10.064	41.951	1.000							0.251	
18	13C-2,3,7,8-TCDD	5.50e5	0.77	NO	1.16	10.064	26.507	26.48	1.026	1.026	179.59	90.4	0.310	
19	13C-1,2,3,7,8-PeCDD	4.70e5	0.62	NO	0.849	10.064	31.692	31.45	1.227	1.218	208.68	105	0.775	
20	13C-1,2,3,4,7,8-HxCDD	2.87e5	1.30	NO	0.779	10.064	34.830	34.84	1.014	1.014	145.06	73.0	0.974	
21	13C-1,2,3,6,7,8-HxCDD	4.55e5	1.27	NO	1.02	10.064	34.944	34.93	1.017	1.017	176.58	88.9	0.746	
22	13C-1,2,3,7,8,9-HxCDD	4.00e5	1.24	NO	0.903	10.064	35.215	35.22	1.025	1.025	174.71	87.9	0.841	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.03	NO	0.689	10.064	38.739	38.77	1.128	1.129	144.31	72.6	0.772	
24	13C-OCDD	3.92e5	0.89	NO	0.652	10.064	41.761	41.76	1.216	1.216	237.29	59.7	0.851	
25	13C-2,3,7,8-TCDF	6.58e5	0.78	NO	1.06	10.064	25.549	25.59	0.989	0.991	162.82	81.9	0.494	
26	13C-1,2,3,7,8-PeCDF	6.51e5	1.59	NO	0.838	10.064	30.076	30.17	1.165	1.168	203.70	103	1.10	
27	13C-2,3,4,7,8-PeCDF	6.15e5	1.61	NO	0.817	10.064	31.029	31.15	1.202	1.206	197.58	99.4	1.13	
28	13C-1,2,3,4,7,8-HxCDF	4.07e5	0.50	NO	1.01	10.064	33.961	33.95	0.989	0.989	159.14	80.1	1.07	
29	13C-1,2,3,6,7,8-HxCDF	5.22e5	0.49	NO	1.17	10.064	34.085	34.08	0.992	0.992	176.55	88.8	0.920	
30	13C-2,3,4,6,7,8-HxCDF	4.55e5	0.51	NO	1.02	10.064	34.659	34.67	1.009	1.009	175.45	88.3	1.05	
31	13C-1,2,3,7,8,9-HxCDF	3.50e5	0.52	NO	0.860	10.064	35.558	35.58	1.035	1.036	160.72	80.9	1.25	

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-13.qld

Last Altered: Monday, July 06, 2020 3:15:34 PM Pacific Daylight Time

Printed: Monday, July 06, 2020 3:16:02 PM Pacific Daylight Time

Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

		RA	NY	RM	RMW	RMW	RMW	RMW	RMW	RMW	RMW	RMW	RMW
32	13C-1,2,3,4,6,7,8-HpCDF	3.15e5	0.44	NO	0.774	10.064	37.307	37.36	1.086	1.088	160.32	80.7	0.818
33	13C-1,2,3,4,7,8,9-HpCDF	1.92e5	0.40	NO	0.521	10.064	39.336	39.32	1.145	1.145	145.68	73.3	1.22
34	13C-OCDF	4.86e5	0.90	NO	0.746	10.064	41.933	41.95	1.221	1.221	257.18	64.7	0.633
35	37Cl-2,3,7,8-TCDD	2.28e5			1.04	10.064	26.538	26.50	1.028	1.026	82.806	104	0.154
36	13C-1,2,3,4-TCDD	5.27e5	0.79	NO	1.00	10.064	25.890	25.83	1.000	1.000	198.72	100	0.359
37	13C-1,2,3,4-TCDF	7.58e5	0.80	NO	1.00	10.064	24.360	24.13	1.000	1.000	198.72	100	0.524
38	13C-1,2,3,4,6,9-HxCDF	5.04e5	0.49	NO	1.00	10.064	34.420	34.35	1.000	1.000	198.72	100	1.07
39	Total Tetra-Dioxins				0.888	10.064	24.620		0.000				0.0692
40	Total Penta-Dioxins				0.908	10.064	29.960		0.000				0.0509
41	Total Hexa-Dioxins				0.892	10.064	33.635		0.000				0.0725
42	Total Hepta-Dioxins				0.864	10.064	37.640		0.000				0.117
43	Total Tetra-Furans				0.751	10.064	23.610		0.000				0.0388
44	1st Func. Penta-Furans				0.893	10.064	27.580		0.000				0.0229
45	Total Penta-Furans				0.893	10.064	29.275		0.000				0.0446
46	Total Hexa-Furans				0.934	10.064	33.555		0.000				0.0463
47	Total Hepta-Furans				0.873	10.064	37.835		0.000				0.0678

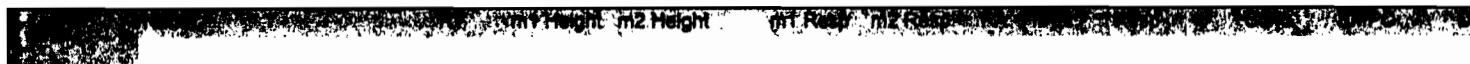
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Printed: Monday, July 06, 2020 3:16:02 PM Pacific Daylight Time

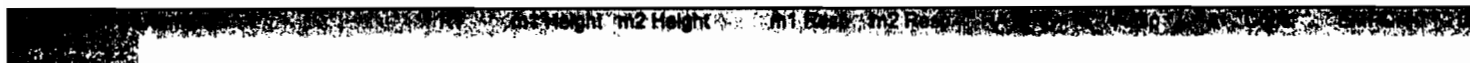
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

Tetra-Dioxins



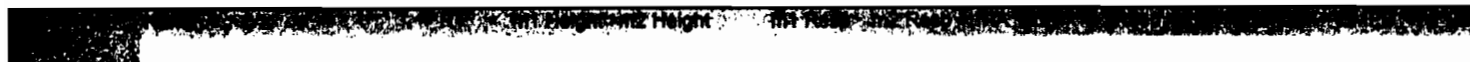
Penta-Dioxins



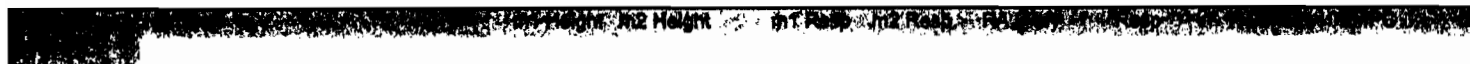
Hexa-Dioxins



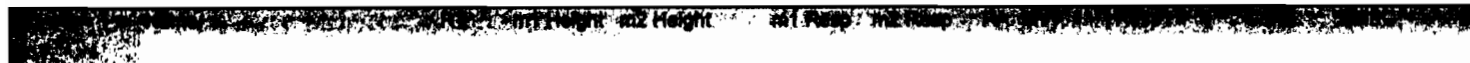
Hepta-Dioxins



Tetra-Furans



Penta-Furans function 1



Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-13.qld

Last Altered: Monday, July 06, 2020 3:15:34 PM Pacific Daylight Time

Printed: Monday, July 06, 2020 3:16:02 PM Pacific Daylight Time

Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

Penta-Furans

m1	m2	m1	m2

Hexa-Furans

m1	m2	m1	m2

Hepta-Furans

m1	m2	m1	m2

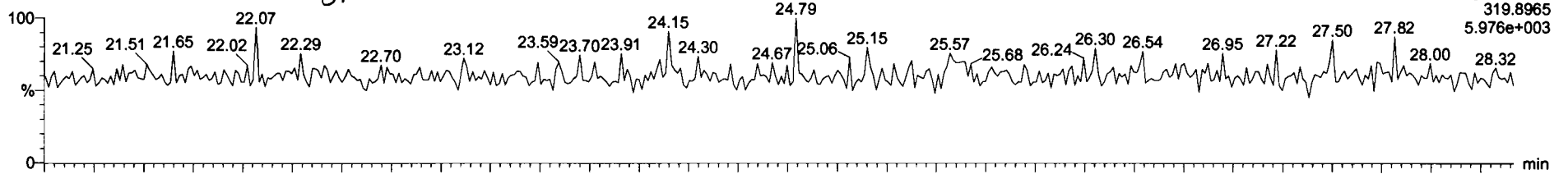
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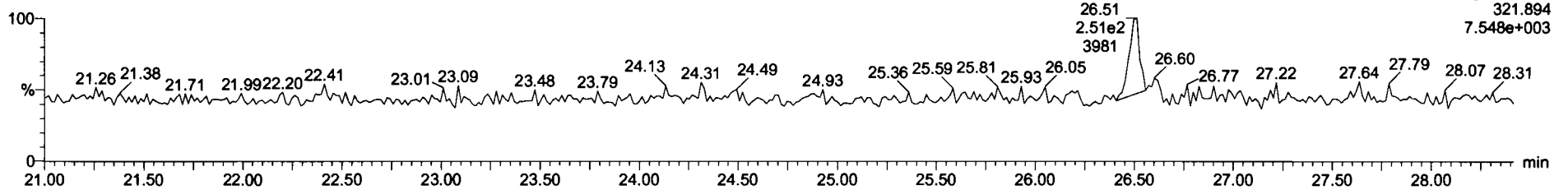
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2,3,7,8-TCDD

200628R1_13

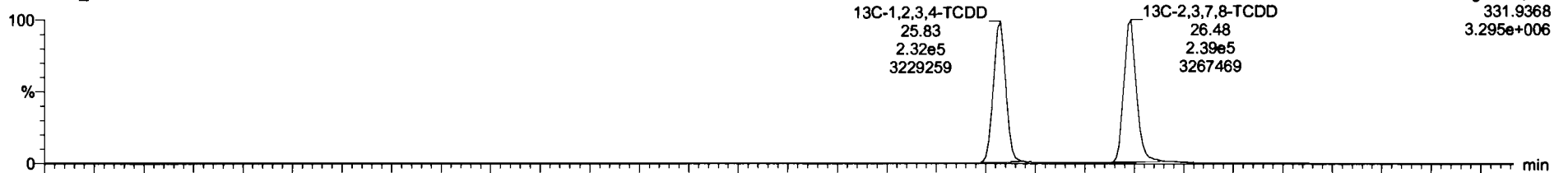


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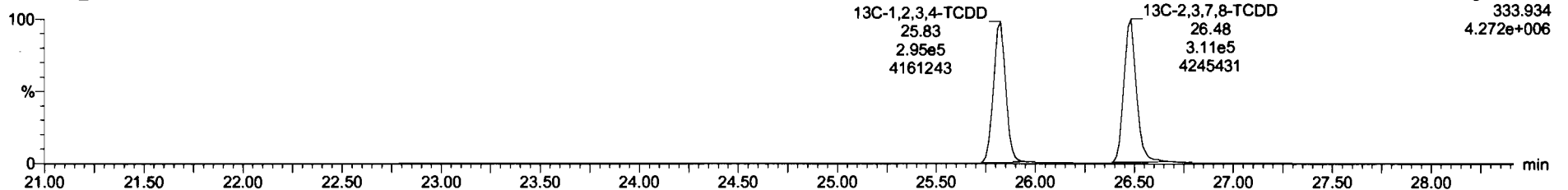


13C-2,3,7,8-TCDD

200628R1_13



200628R1_13



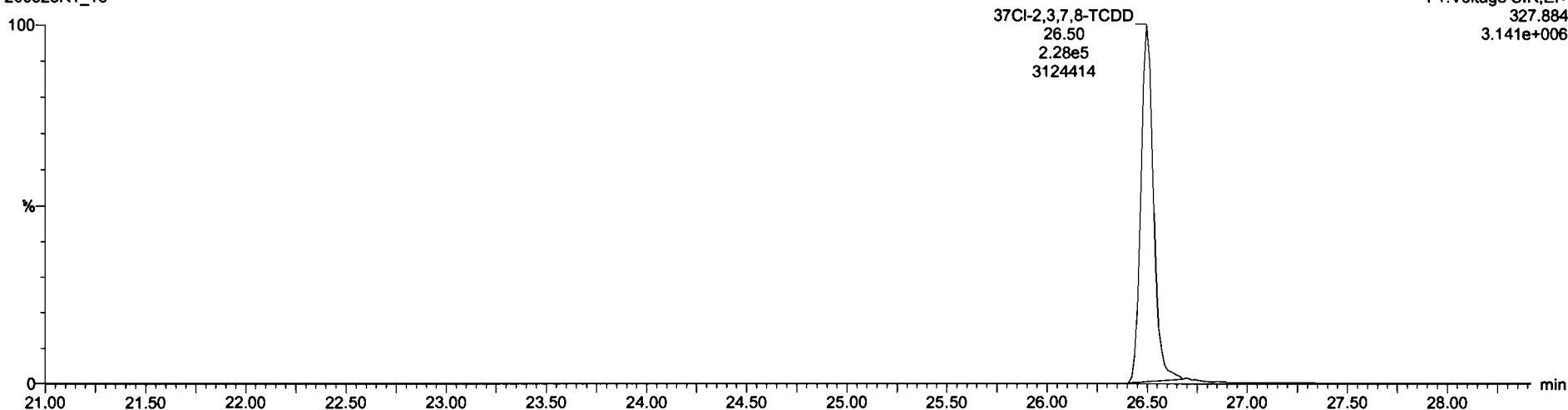
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Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

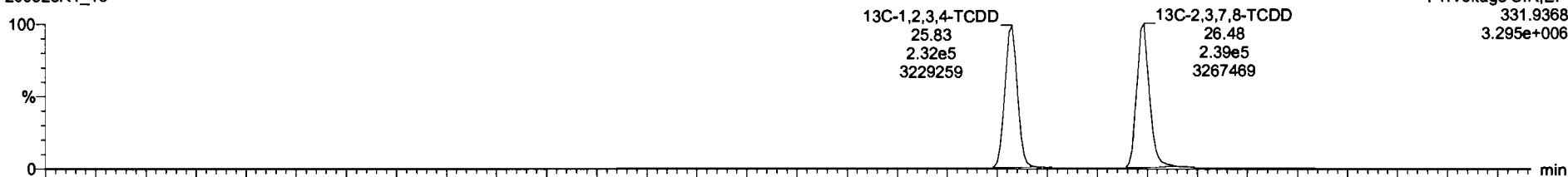
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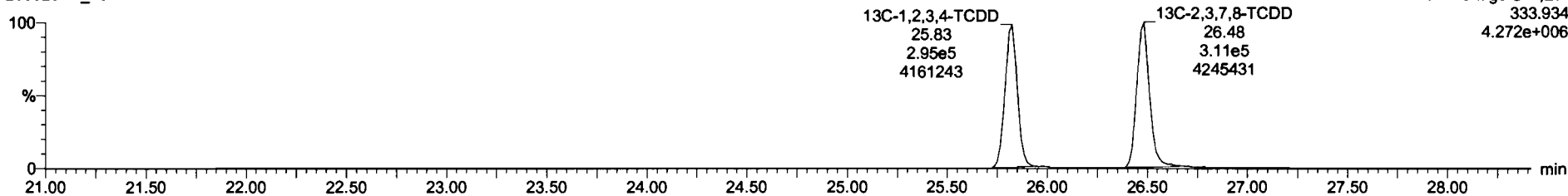


13C-1,2,3,4-TCDD

200628R1_13



200628R1_13



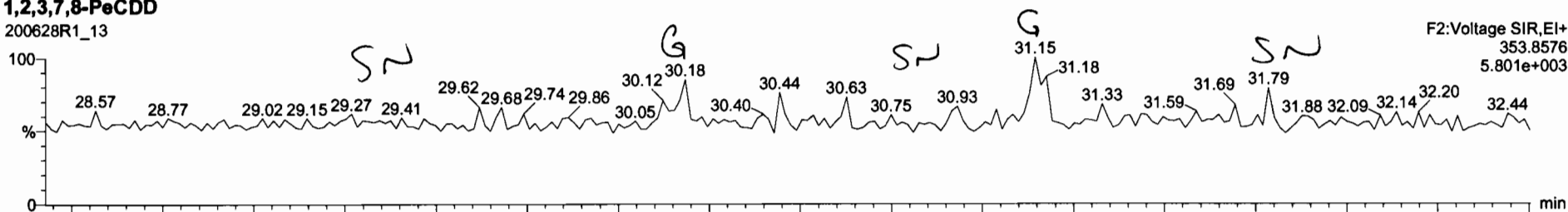
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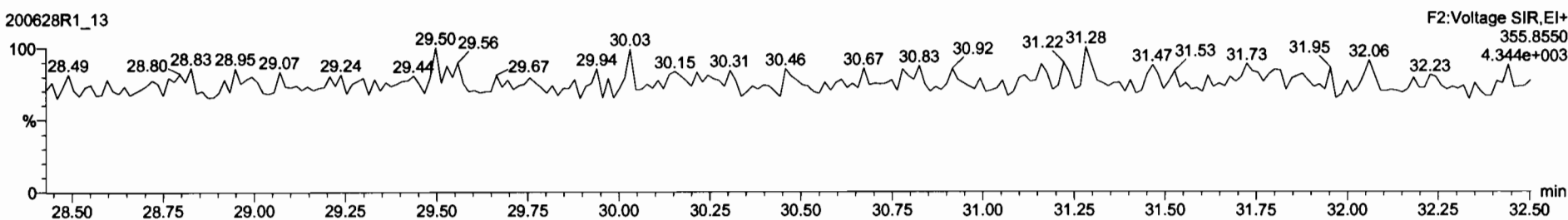
1,2,3,7,8-PeCDD

200628R1_13



F2:Voltage SIR,EI+
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5.801e+003

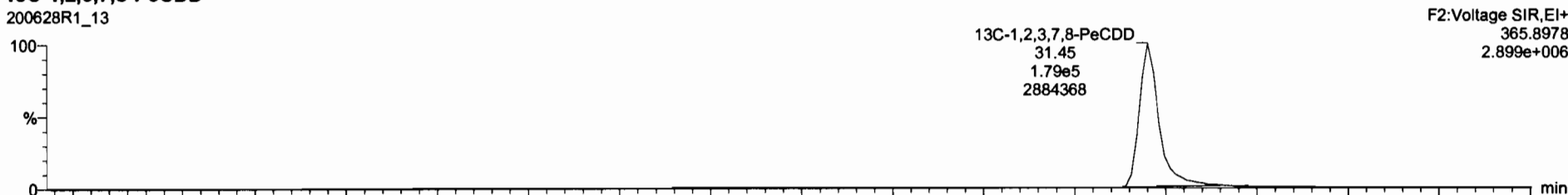
200628R1_13



F2:Voltage SIR,EI+
355.8550
4.344e+003

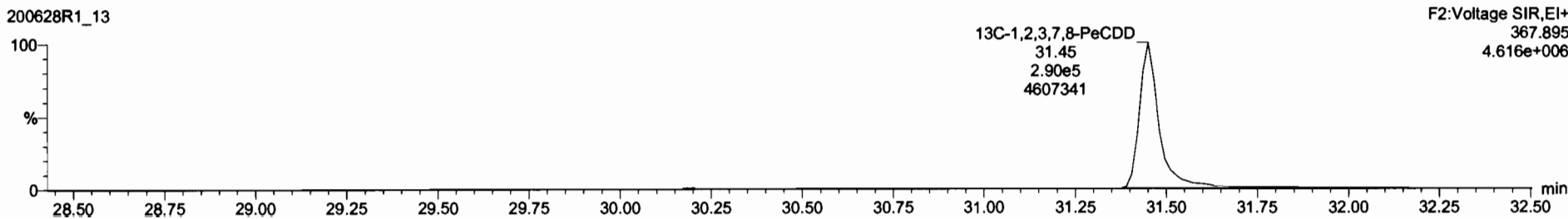
13C-1,2,3,7,8-PeCDD

200628R1_13



F2:Voltage SIR,EI+
365.8978
2.899e+006

200628R1_13



F2:Voltage SIR,EI+
367.895
4.616e+006

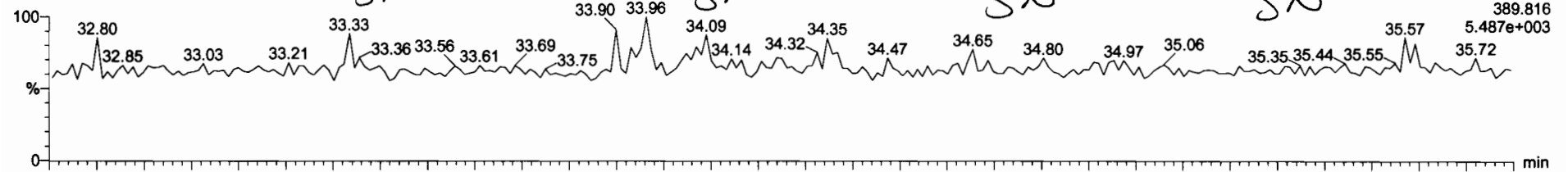
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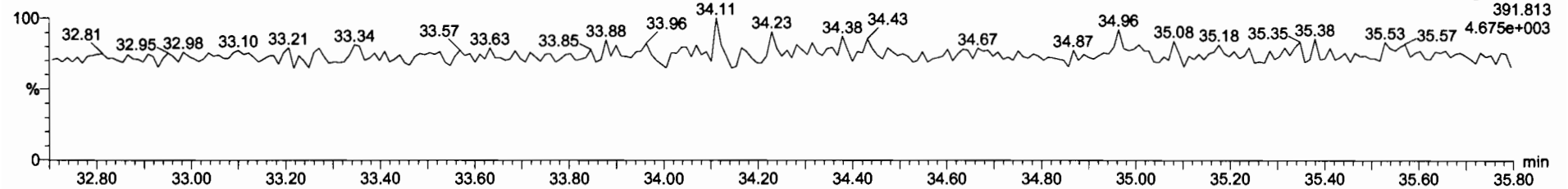
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1,2,3,4,7,8-HxCDD

200628R1_13

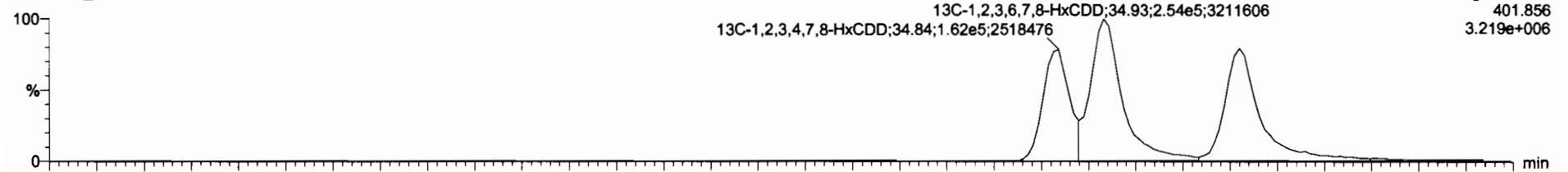


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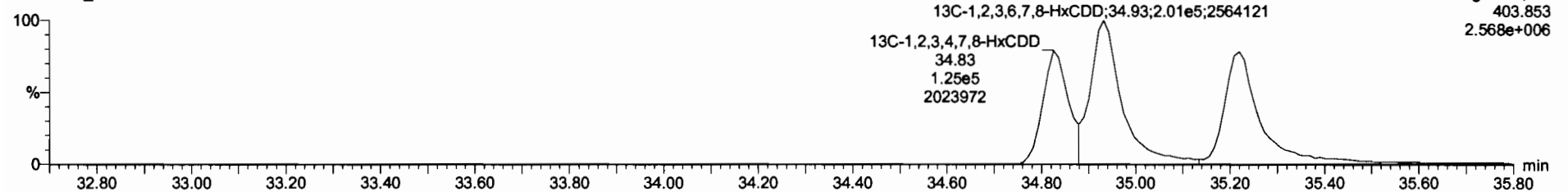


13C-1,2,3,4,7,8-HxCDD

200628R1_13



200628R1_13



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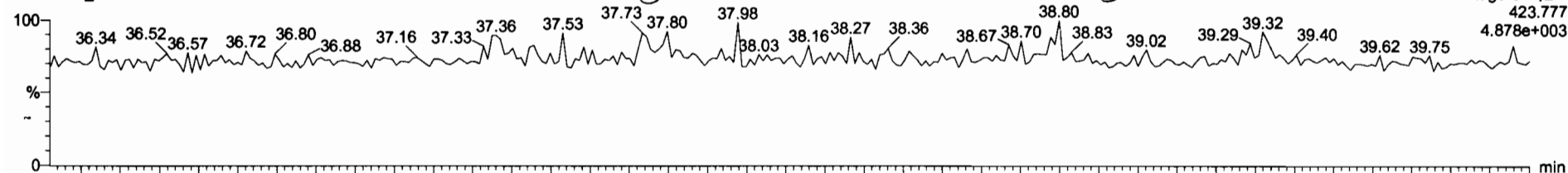
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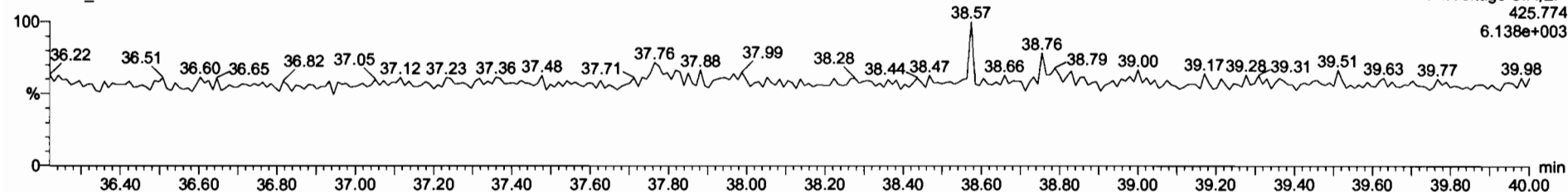
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1,2,3,4,6,7,8-HpCDD

200628R1_13

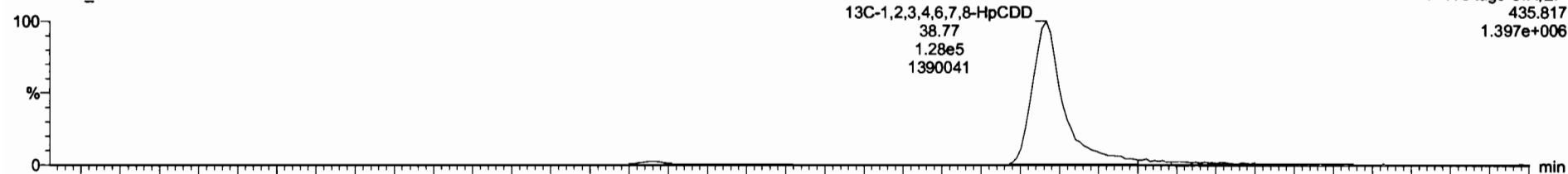


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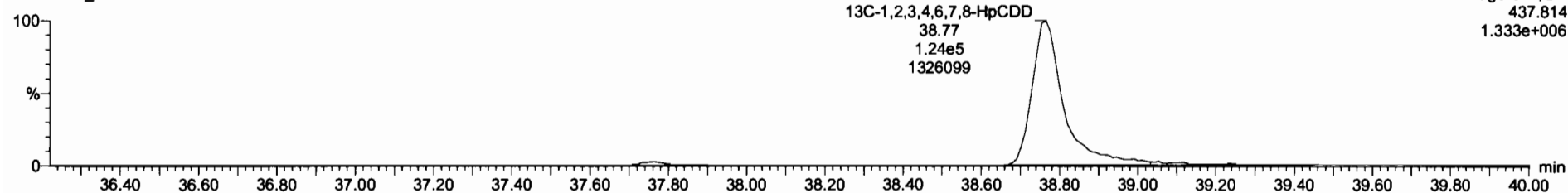


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200628R1_13



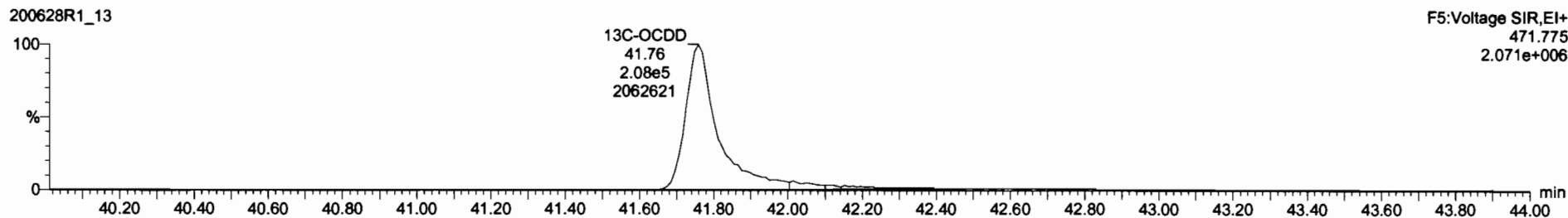
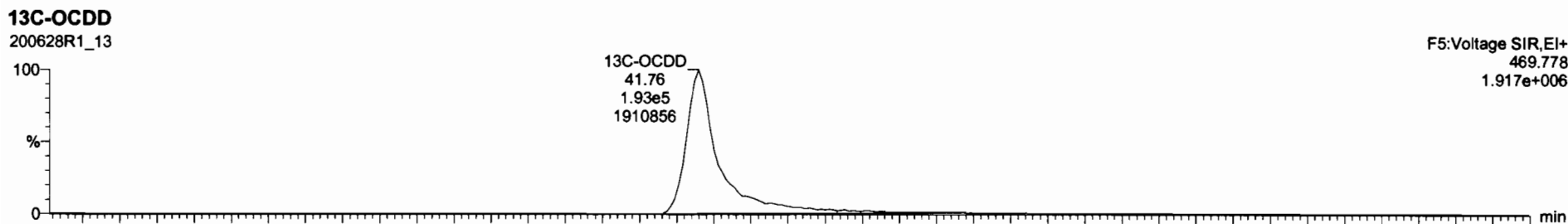
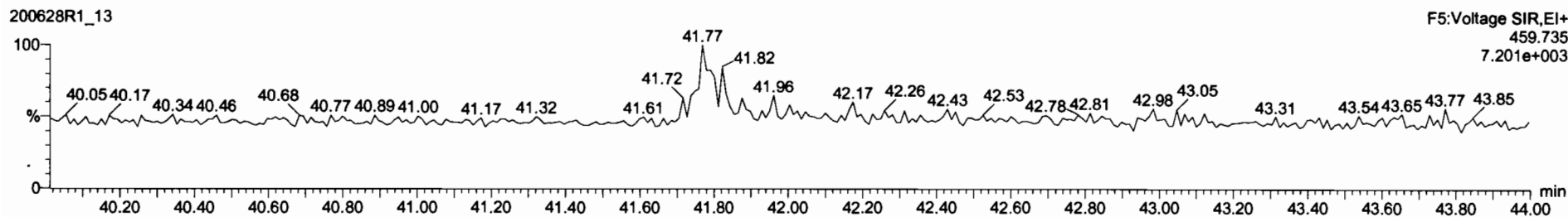
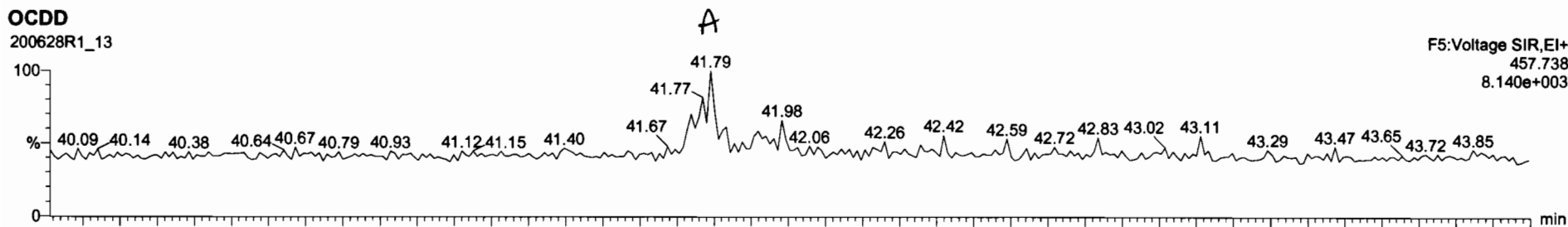
200628R1_13



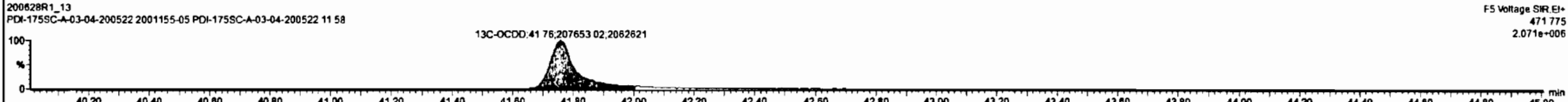
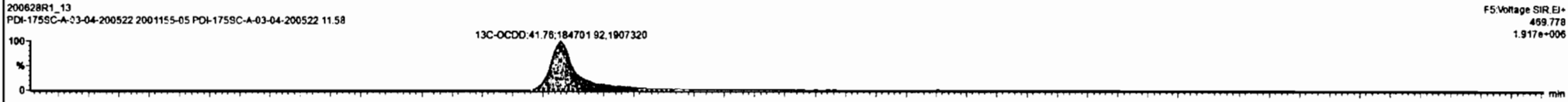
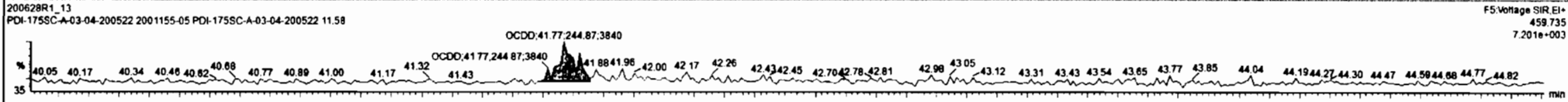
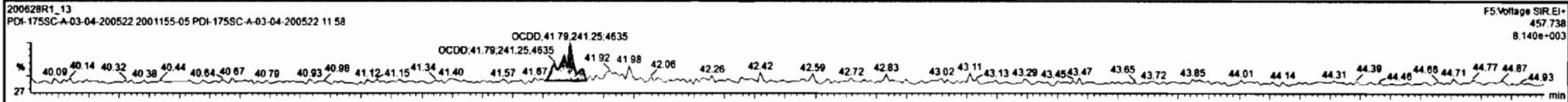
Dataset: Untitled

Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522



2,3,7,8-TCDD			NO	0.8883	10.064						0.118
1,2,3,7,8-PeCDD			NO	0.9081	10.064						0.107
1,2,3,4,7,8-HxCDD			NO	1.0334	10.064						0.130
1,2,3,6,7,8-HxCDD			NO	0.8823	10.064						0.117
1,2,3,7,8,9-HxCDD			NO	0.8080	10.064						0.146
1,2,3,4,6,7,8-HpCDD			NO	0.8630	10.064						0.227
2,3,7,8-TCDF			NO	0.7510	10.064						0.0881
1,2,3,7,8-PeCDF			NO	0.8825	10.064						0.0973
2,3,4,7,8-PeCDF			NO	0.9348	10.064						0.0884
1,2,3,4,7,8-HxCDF			NO	0.8845	10.064						0.0798
1,2,3,6,7,8-HxCDF			NO	0.8982	10.064						0.0730
2,3,4,6,7,8-HxCDF			NO	0.9341	10.064						0.0628
1,2,3,7,8,9-HxCDF			NO	0.8787	10.064						0.130
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.064						0.114
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.064						0.146
OCDF			NO	0.8085	10.064						0.251
13C-2,3,7,8-TCDD	5.50e5	0.77	NO	1.1563	10.064	25.48	1.026	186	90.4		0.310
13C-1,2,3,7,8-PeCDD	4.70e5	0.62	NO	0.8480	10.064	31.45	1.218	209	106		0.775
13C-1,2,3,4,7,8-HxCDD	2.87e5	1.38	NO	0.7790	10.064	34.84	1.014	145	73.0		0.974
13C-1,2,3,6,7,8-HxCDD	4.55e5	1.27	NO	1.0167	10.064	34.93	1.017	177	88.9		0.748

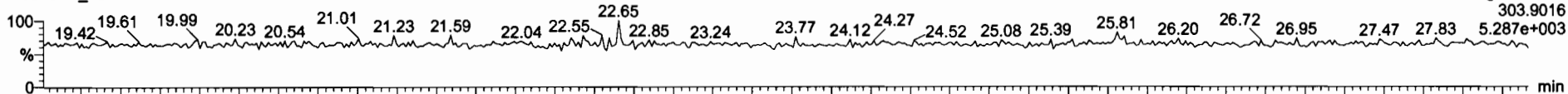


Dataset: Untitled

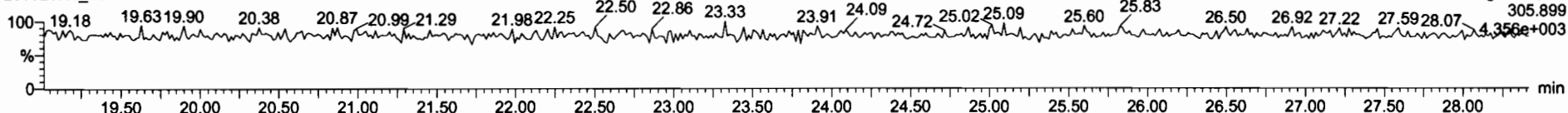
Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

2,3,7,8-TCDF
200628R1_13

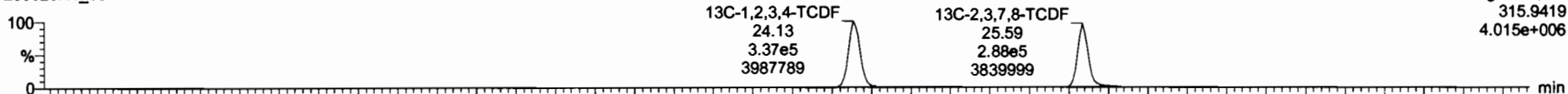


200628R1_13

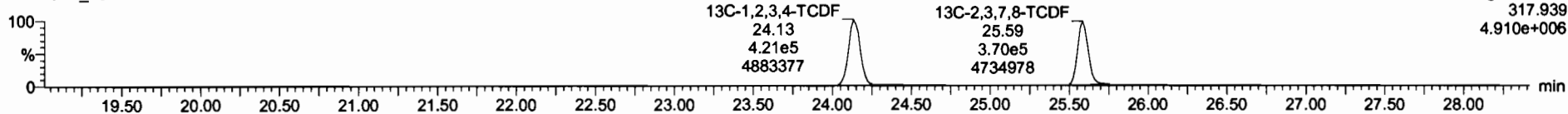


13C-2,3,7,8-TCDF

200628R1_13

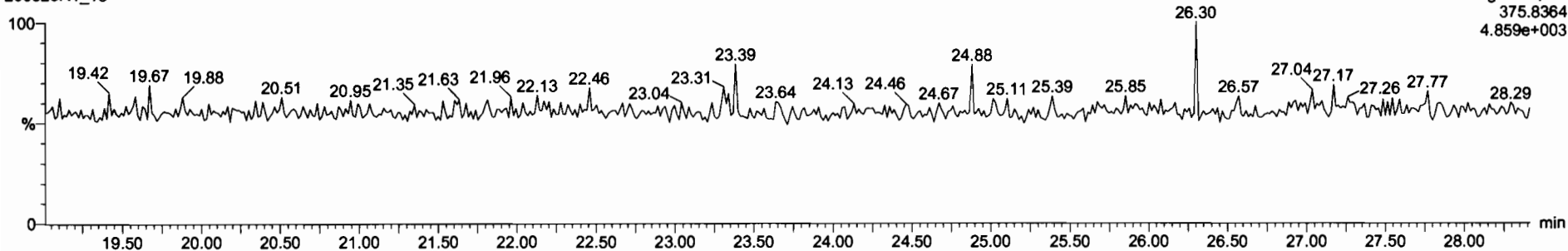


200628R1_13



DPE1

200628R1_13



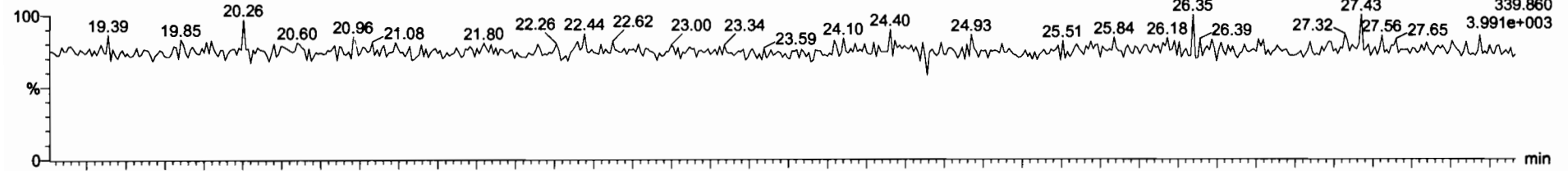
Dataset: Untitled

Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

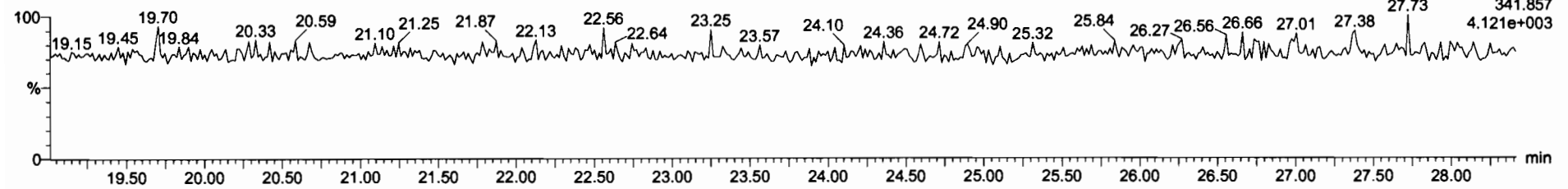
Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

1st Func. Penta-Furans

200628R1_13

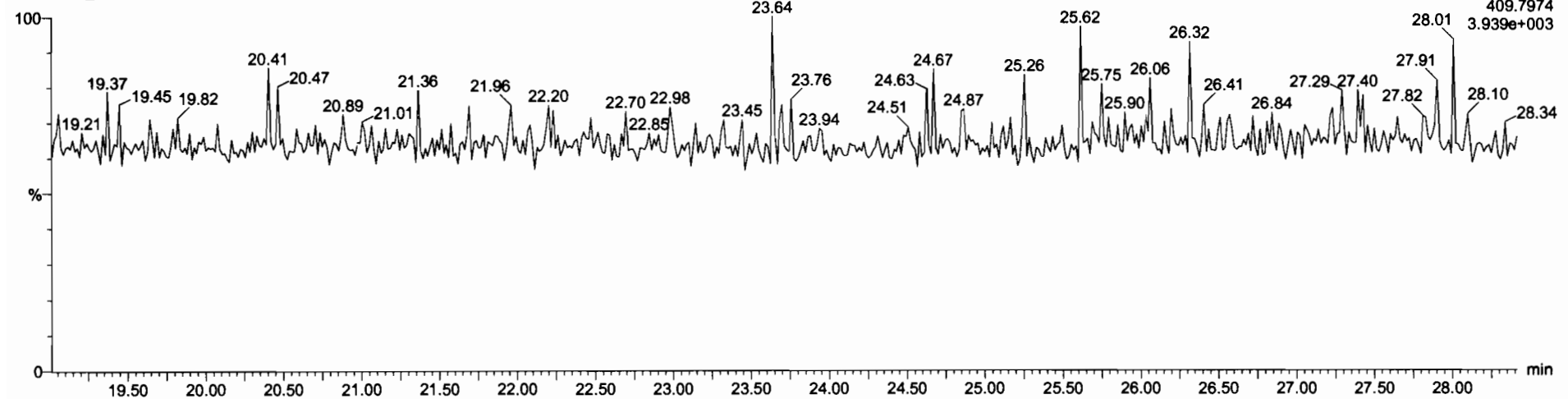


200628R1_13



DPE6

200628R1_13



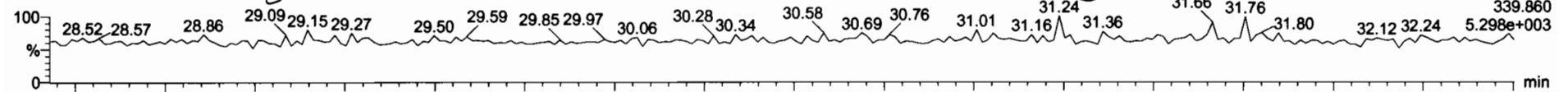
Dataset: Untitled

Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

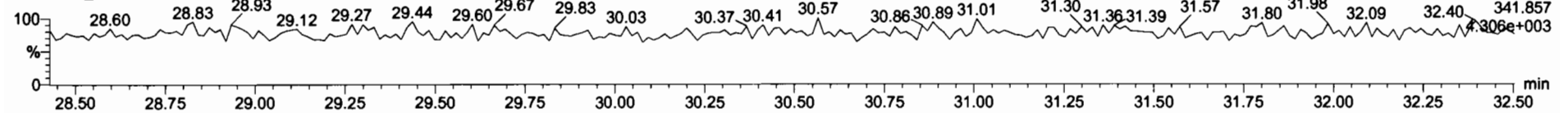
Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

1,2,3,7,8-PeCDF

200628R1_13

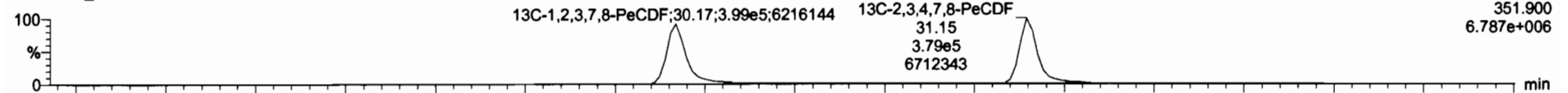


200628R1_13

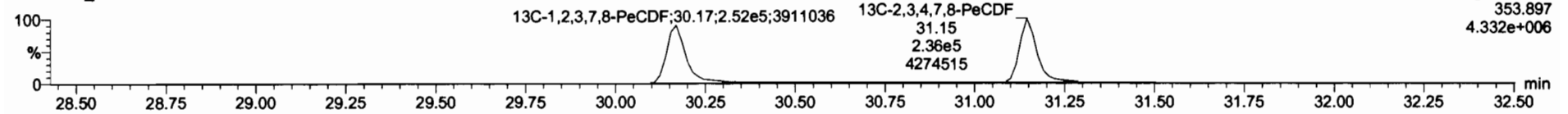


13C-1,2,3,7,8-PeCDF

200628R1_13

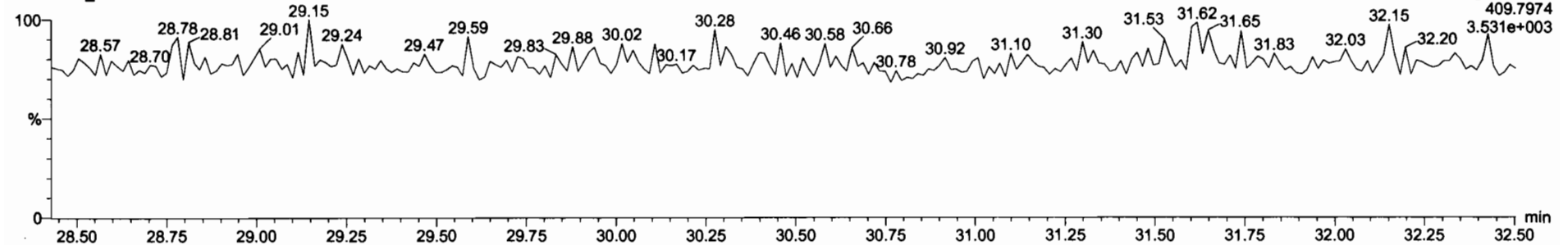


200628R1_13



DPE2

200628R1_13

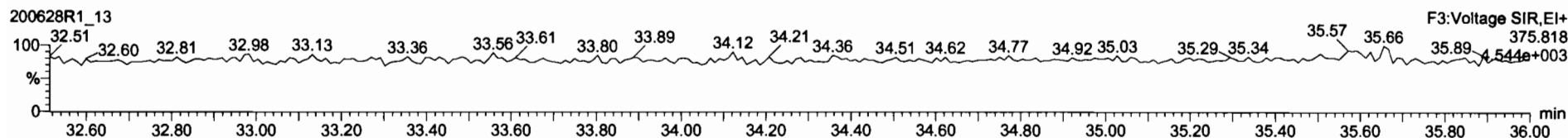
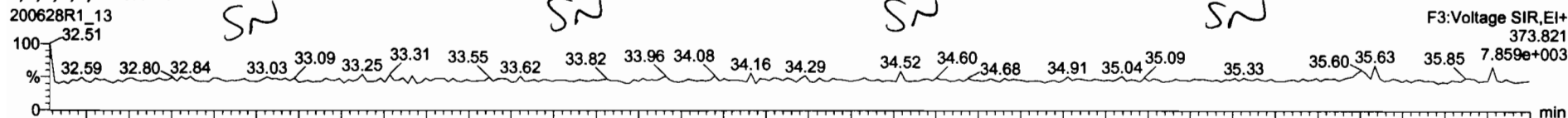


Dataset: Untitled

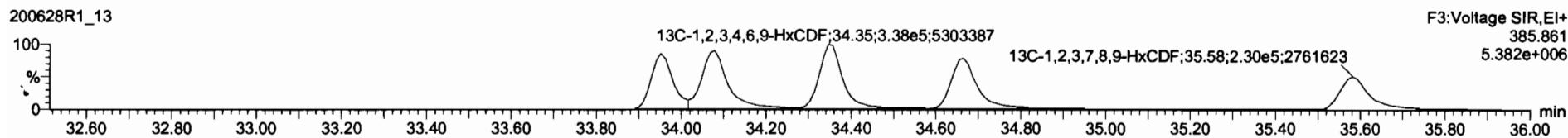
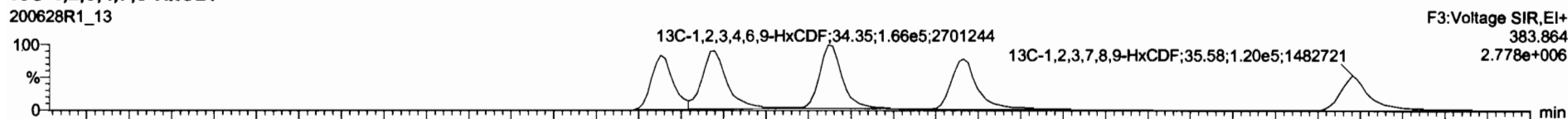
Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

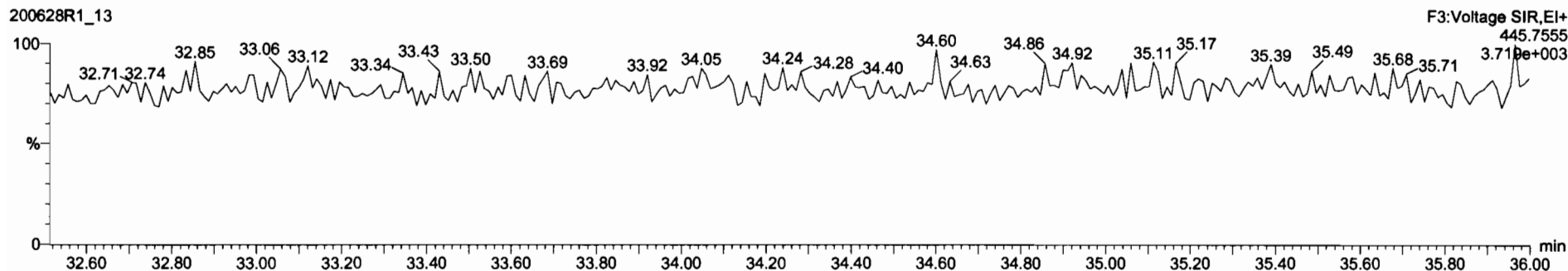
1,2,3,4,7,8-HxCDF



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



DPE3

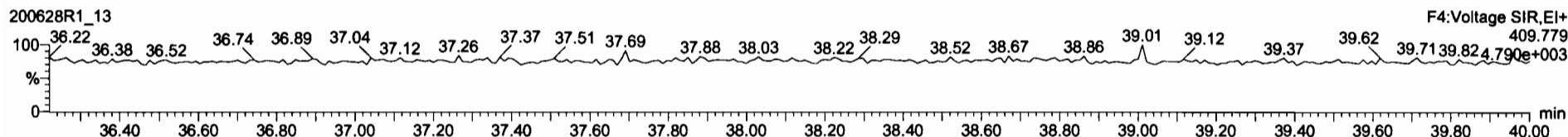
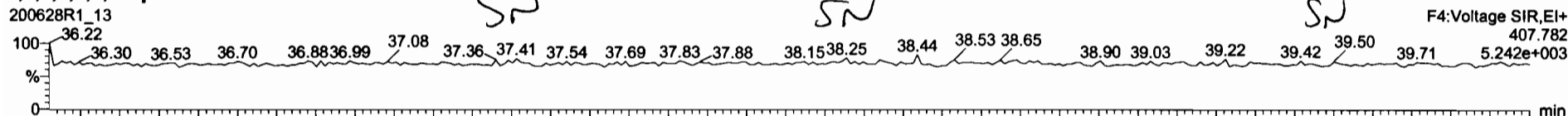


Dataset: Untitled

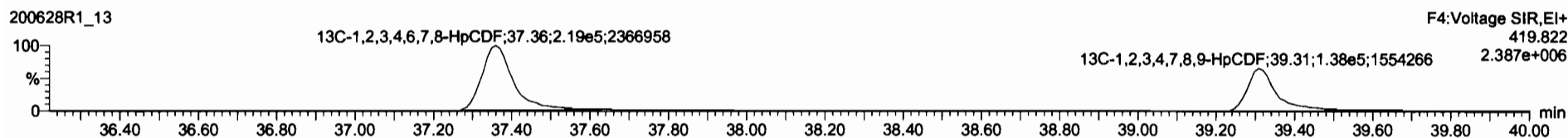
Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

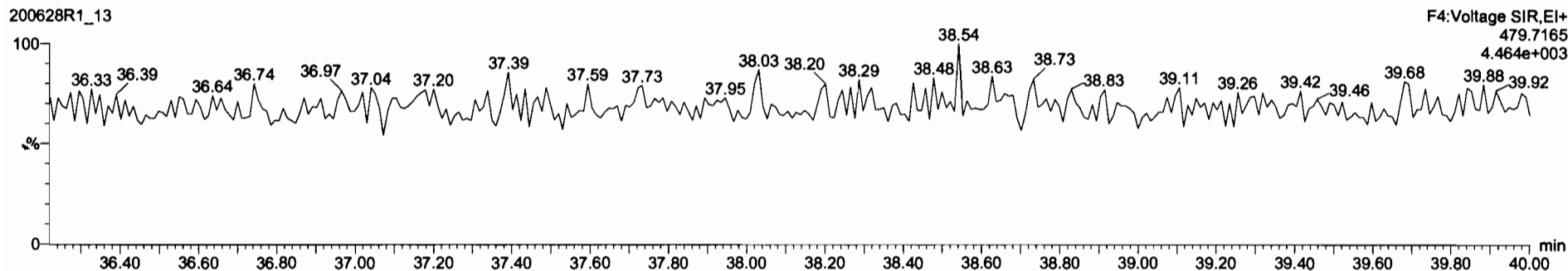
1,2,3,4,6,7,8-HpCDF



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



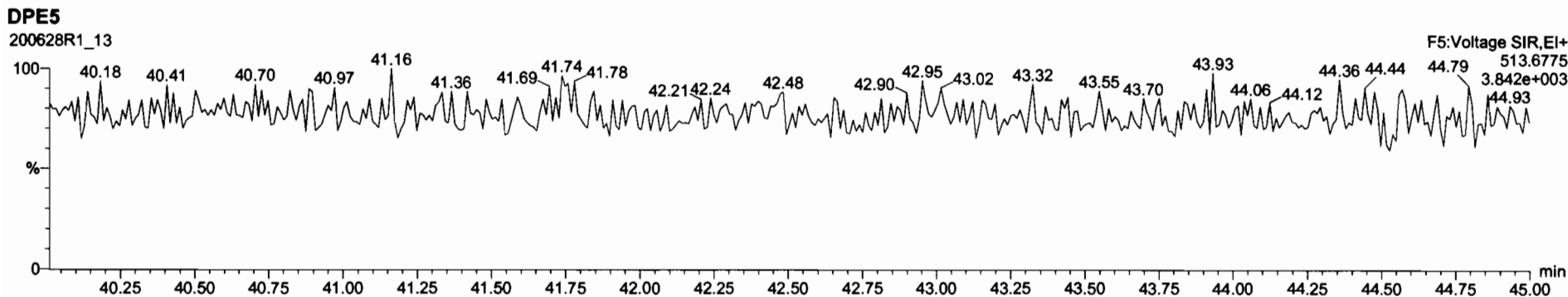
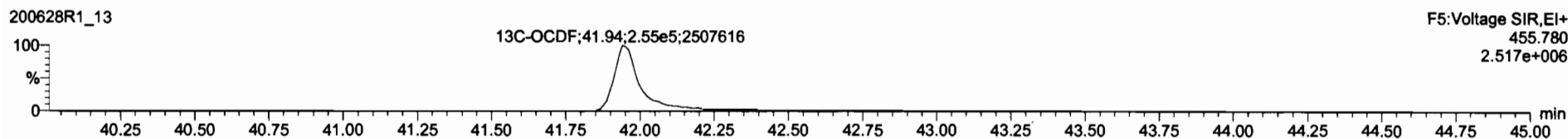
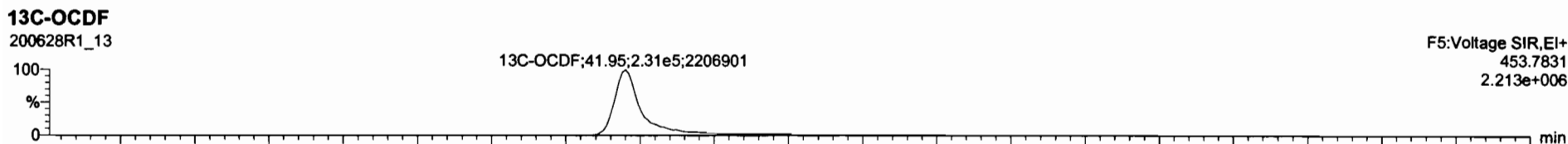
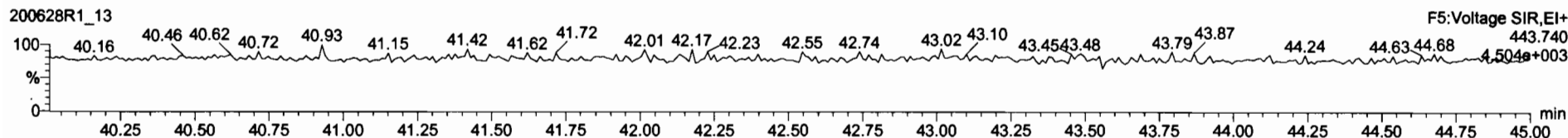
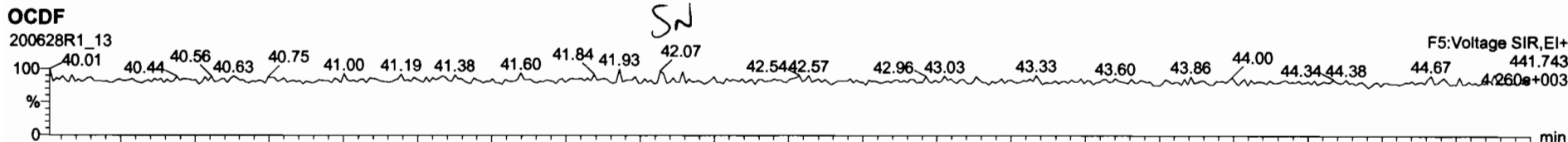
DPE4



Dataset: Untitled

Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

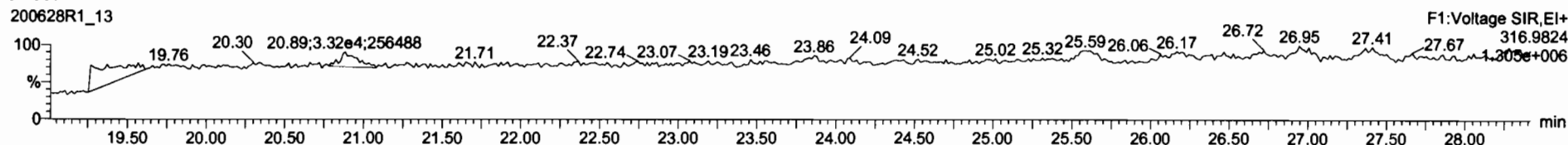


Dataset: Untitled

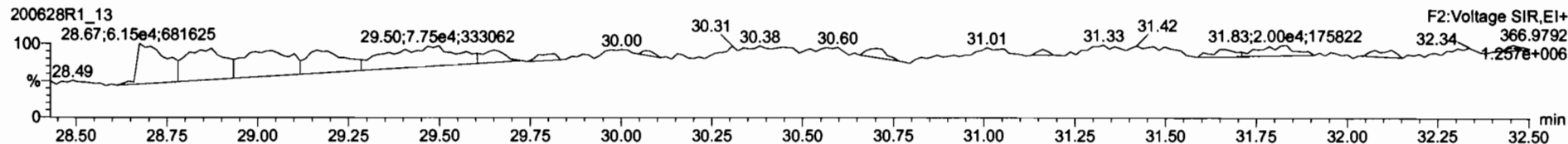
Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time

Name: 200628R1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

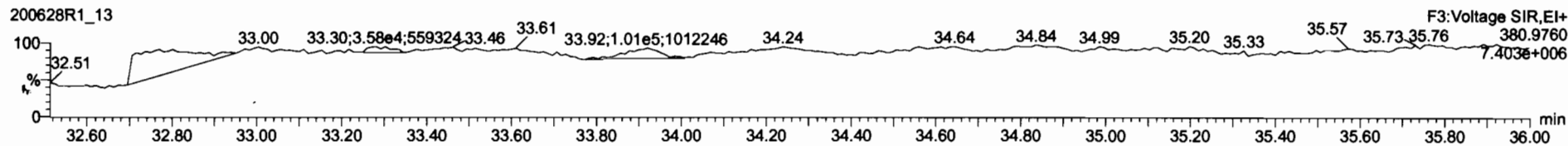
PFK1



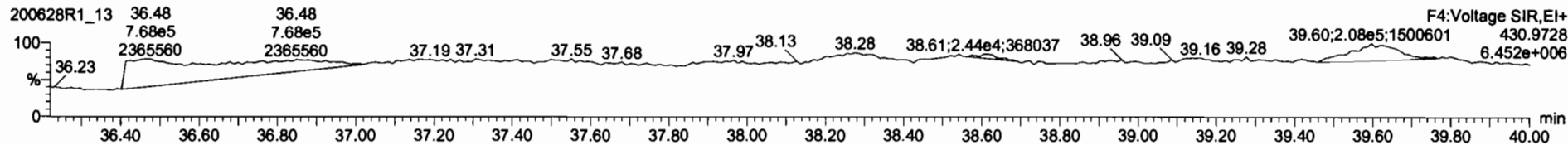
PFK2



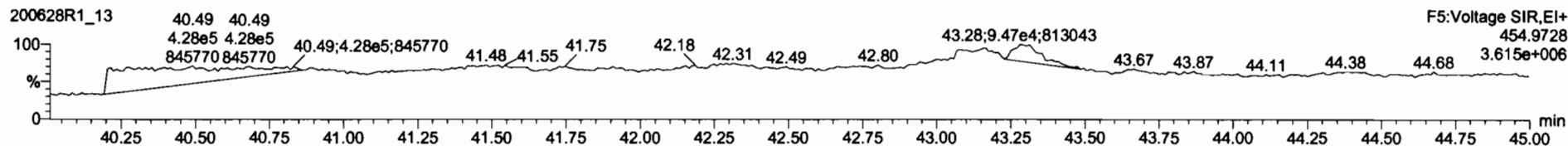
PFK3



PFK4



PFK5



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200708D1\200708D1_17.qld

Last Altered: Thursday, July 09, 2020 10:22:06 Pacific Daylight Time

Printed: Thursday, July 09, 2020 10:22:18 Pacific Daylight Time

DB 7/9/20 0709/09/2020

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_17, Date: 08-Jul-2020, Time: 18:36:13, ID: 2001155-02RE1 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

	Peak	RA	n/y	RRF	wt/vol	Prod	RRF	RRF	RRF	RRF	Concn		
1	2,3,7,8-TCDF	2.69e2	0.68	NO	0.982	10.133	16.936	16.96	1.000	1.001	0.38724	0.273	0.387
2	13C-2,3,7,8-TCDF	1.40e5	0.78	NO	1.08	10.133	16.894	16.94	1.133	1.135	98.665	50.0	0.413
3	13C-1,2,3,4-TCDF	2.58e5	0.76	NO	1.00	10.133	15.060	14.92	1.000	1.000	197.38	100	0.448

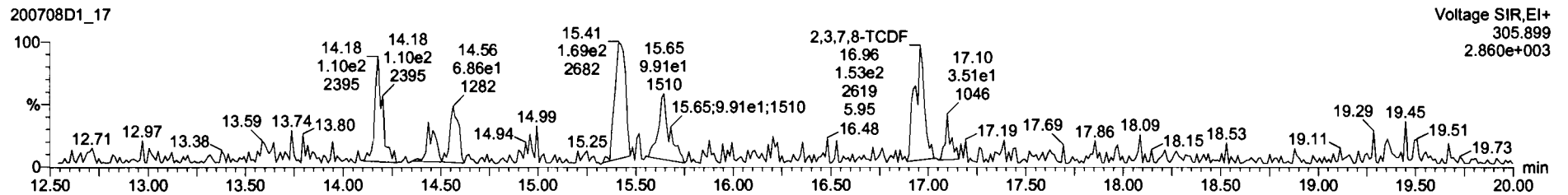
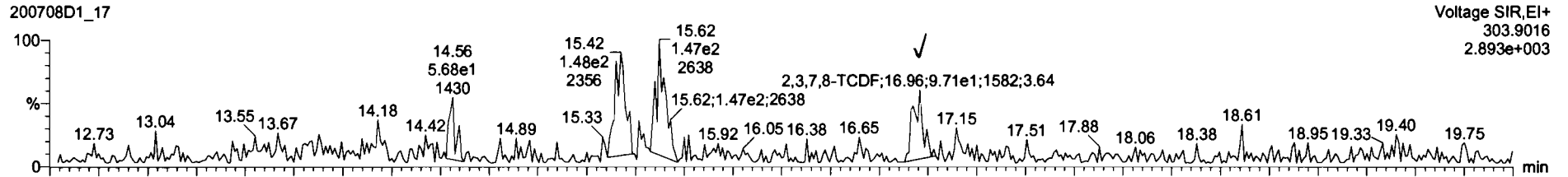
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_17.qld

Last Altered: Thursday, July 09, 2020 10:20:20 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:21:27 Pacific Daylight Time

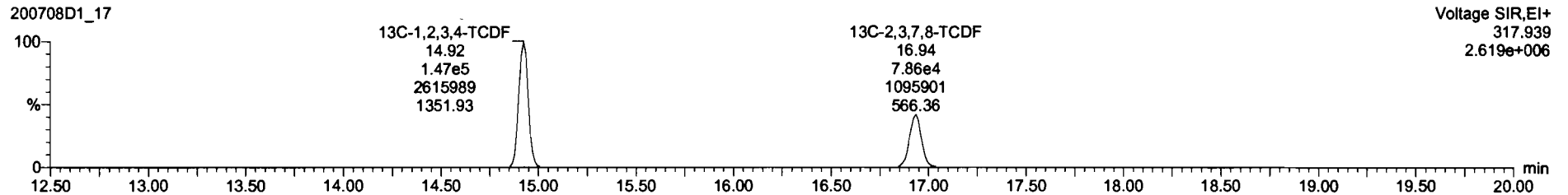
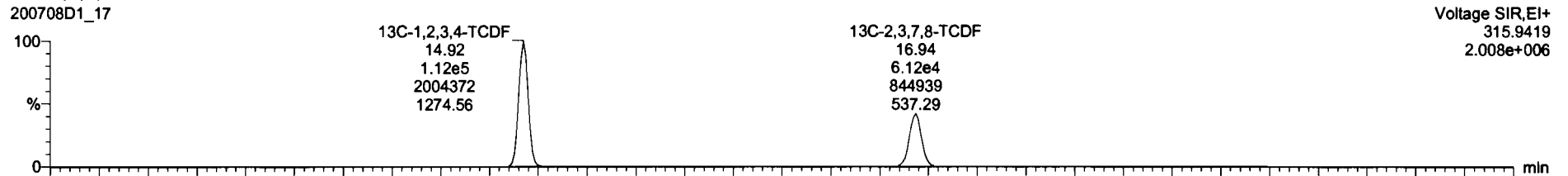
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

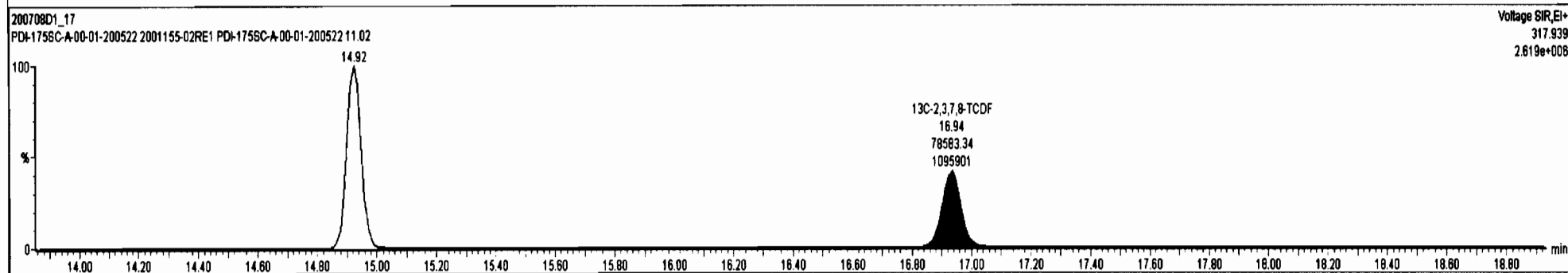
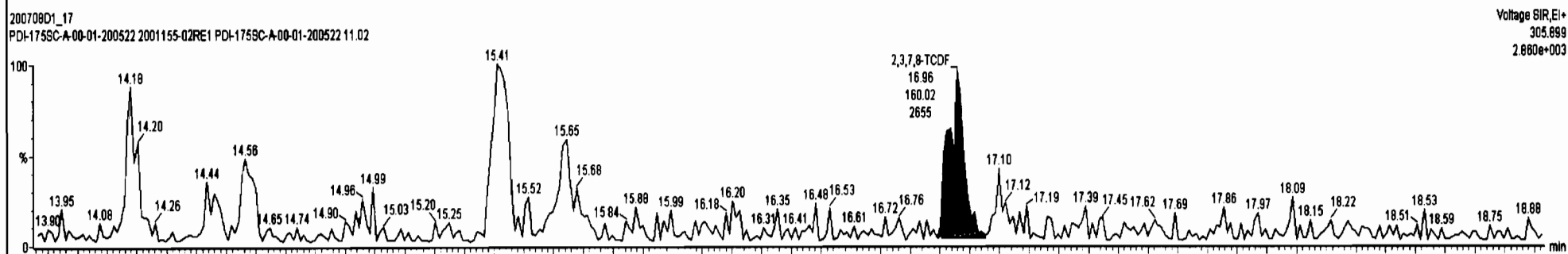
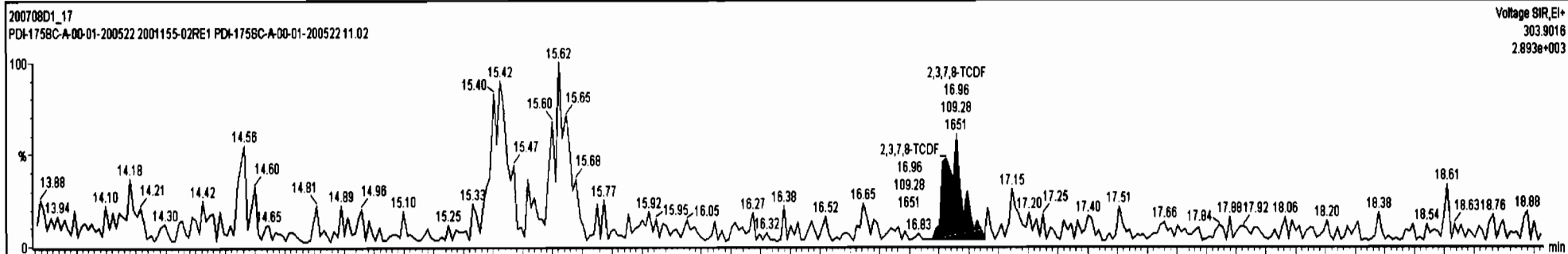
Name: 200708D1_17, Date: 08-Jul-2020, Time: 18:36:13, ID: 2001155-02RE1 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

2,3,7,8-TCDF



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





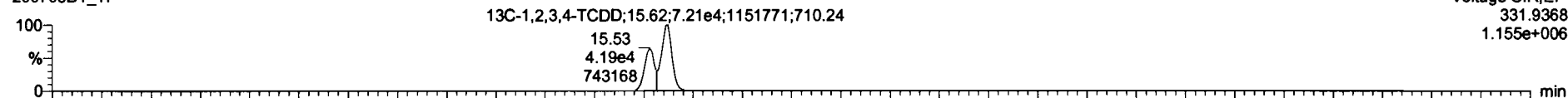
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Last Altered: Thursday, July 09, 2020 10:20:20 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:21:27 Pacific Daylight Time

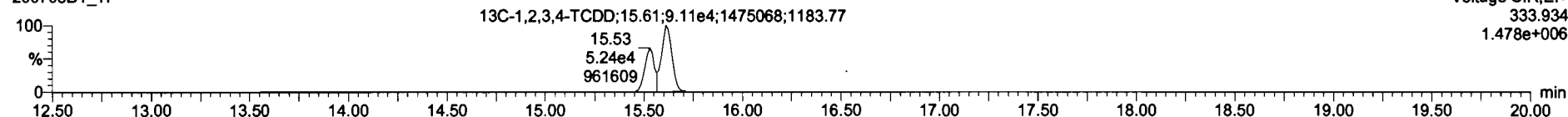
Name: 200708D1_17, Date: 08-Jul-2020, Time: 18:36:13, ID: 2001155-02RE1 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

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

200708D1_17

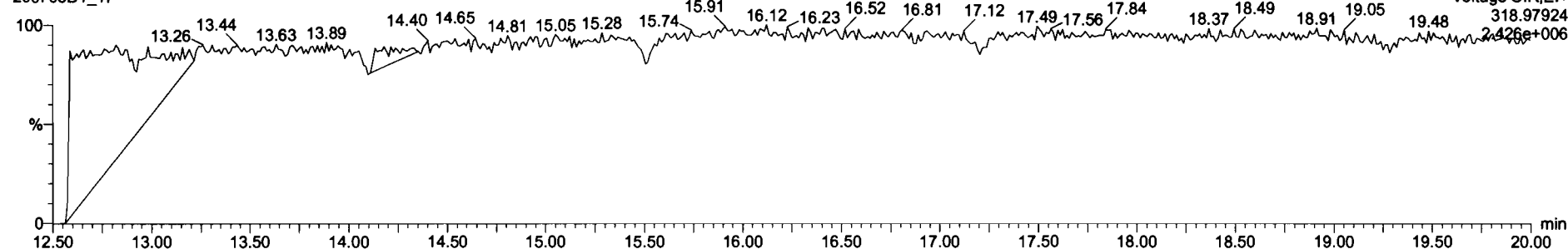


200708D1_17



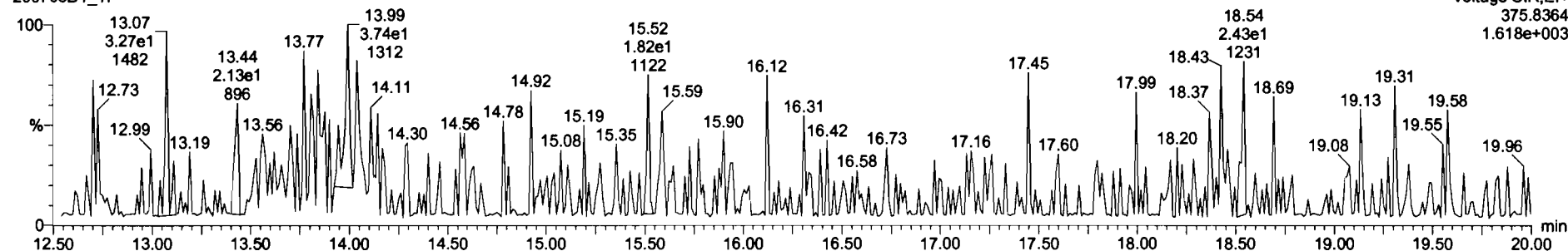
PFK1

200708D1_17



DPE1

200708D1_17



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200623DZ-1

Reviewed By: CT 06/24/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>DB</u>	<u>DB</u>
Run Log:		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> (Y)	<input type="checkbox"/> N
- Bottle position verified?	<u>DB</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"/> NA
GC Break <20%		<input type="checkbox"/> NA
8280 CS1 End Standard:		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:

Dataset: U:\VG7.PRO\Results\200623D2\200623D2_2.qld

Last Altered: Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 10:31:12 Pacific Daylight Time

DB 6/24/20 CM 06/24/2020

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt.mdb 27 Apr 2020 14:17:24
Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Name: 200623D2_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 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-TCDD	5.18e3	0.78	NO	0.986	1.000	26.082	26.08	1.001	1.001	9.0592	90.6 <i>78-129</i>	0.226	9.06
2	2 1,2,3,7,8-PeCDD	1.87e4	0.63	NO	0.964	1.000	30.630	30.63	1.001	1.001	45.716	91.4 <i>78-130</i>	0.309	45.7
3	3 1,2,3,4,7,8-HxCDD	1.69e4	1.31	NO	1.16	1.000	33.916	33.93	1.000	1.001	46.645	93.3 <i>78-128</i>	0.485	46.6
4	4 1,2,3,6,7,8-HxCDD	1.75e4	1.20	NO	1.01	1.000	34.016	34.03	1.000	1.000	42.919	85.8 <i>78-128</i>	0.464	42.9
5	5 1,2,3,7,8,9-HxCDD	1.60e4	1.26	NO	1.01	1.000	34.346	34.32	1.001	1.000	44.550	89.1 <i>82-122</i>	0.580	44.6
6	6 1,2,3,4,6,7,8-HpCDD	1.31e4	1.03	NO	0.997	1.000	37.802	37.80	1.000	1.000	44.888	89.8 <i>86-116</i>	0.823	44.9
7	7 OCDD	2.38e4	0.90	NO	1.01	1.000	41.038	41.05	1.000	1.000	90.978	91.0 <i>79-126</i>	0.825	91.0
8	8 2,3,7,8-TCDF	6.68e3	0.81	NO	0.833	1.000	25.281	25.27	1.001	1.001	9.1543	91.5 <i>84-120</i>	0.208	9.15
9	9 1,2,3,7,8-PeCDF	3.08e4	1.60	NO	0.965	1.000	29.442	29.44	1.001	1.001	47.088	94.2 <i>82-120</i>	0.277	47.1
10	10 2,3,4,7,8-PeCDF	3.04e4	1.60	NO	1.01	1.000	30.357	30.33	1.001	1.000	46.621	93.2 <i>82-120</i>	0.271	46.6
11	11 1,2,3,4,7,8-HxCDF	2.48e4	1.28	NO	1.09	1.000	33.028	33.04	1.000	1.000	49.810	99.6 <i>90-112</i>	0.420	49.8
12	12 1,2,3,6,7,8-HxCDF	2.73e4	1.32	NO	1.07	1.000	33.159	33.17	1.000	1.001	48.809	97.6 <i>88-114</i>	0.361	48.8
13	13 2,3,4,6,7,8-HxCDF	2.50e4	1.26	NO	1.15	1.000	33.775	33.75	1.001	1.000	47.348	94.7 <i>88-114</i>	0.443	47.3
14	14 1,2,3,7,8,9-HxCDF	1.98e4	1.28	NO	1.11	1.000	34.685	34.70	1.000	1.000	47.985	96.0 <i>90-112</i>	0.645	48.0
15	15 1,2,3,4,6,7,8-HpCDF	2.04e4	1.03	NO	1.16	1.000	36.554	36.53	1.001	1.000	46.494	93.0 <i>90-110</i>	0.576	46.5
16	16 1,2,3,4,7,8,9-HpCDF	1.69e4	1.04	NO	1.35	1.000	38.328	38.34	1.000	1.000	49.184	98.4 <i>86-116</i>	0.694	49.2
17	17 OCDF	2.92e4	0.86	NO	0.949	1.000	41.247	41.27	1.000	1.001	97.560	97.6 <i>63-159</i>	0.658	97.6
18	18 13C-2,3,7,8-TCDD	5.80e4	0.79	NO	1.26	1.000	26.147	26.05	1.026	1.022	94.755	94.8 <i>82-121</i>	1.35	
19	19 13C-1,2,3,7,8-PeCDD	4.25e4	0.62	NO	0.921	1.000	30.633	30.61	1.202	1.201	94.878	94.9 <i>62-160</i>	0.444	
20	20 13C-1,2,3,4,7,8-HxCDD	3.12e4	1.38	NO	0.707	1.000	33.902	33.91	1.014	1.014	98.710	98.7 <i>85-117</i>	0.890	
21	21 13C-1,2,3,6,7,8-HxCDD	4.06e4	1.32	NO	0.829	1.000	34.013	34.02	1.017	1.017	109.72	110 <i>85-118</i>	0.760	
22	22 13C-1,2,3,7,8,9-HxCDD	3.57e4	1.18	NO	0.808	1.000	34.283	34.31	1.025	1.026	98.873	98.9 <i>85-118</i>	0.779	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.92e4	1.07	NO	0.662	1.000	37.747	37.79	1.129	1.130	98.942	98.9 <i>72-138</i>	1.44	
24	24 13C-OCDD	5.16e4	0.91	NO	0.608	1.000	40.770	41.04	1.219	1.227	190.18	95.1 <i>48-207</i>	1.02	
25	25 13C-2,3,7,8-TCDF	8.76e4	0.77	NO	1.07	1.000	25.230	25.26	0.990	0.991	101.68	102 <i>71-140</i>	1.01	
26	26 13C-1,2,3,7,8-PeCDF	6.79e4	1.67	NO	0.826	1.000	29.453	29.42	1.156	1.154	101.81	102 <i>76-130</i>	0.946	
27	27 13C-2,3,4,7,8-PeCDF	6.45e4	1.63	NO	0.796	1.000	30.352	30.33	1.191	1.190	100.43	100 <i>77-130</i>	0.981	
28	28 13C-1,2,3,4,7,8-HxCDF	4.54e4	0.49	NO	1.08	1.000	33.033	33.03	0.988	0.988	94.574	94.6 <i>76-131</i>	0.864	
29	29 13C-1,2,3,6,7,8-HxCDF	5.24e4	0.48	NO	1.12	1.000	33.167	33.15	0.992	0.991	104.41	104 <i>70-143</i>	0.826	
30	30 13C-2,3,4,6,7,8-HxCDF	4.58e4	0.47	NO	1.02	1.000	33.738	33.74	1.009	1.009	100.11	100 <i>73-137</i>	0.907	
31	31 13C-1,2,3,7,8,9-HxCDF	3.70e4	0.52	NO	0.887	1.000	34.638	34.69	1.036	1.037	93.550	93.6 <i>74-135</i>	1.05	

Dataset: U:\VG7.PRO\Results\200623D2\200623D2_2.qld

Last Altered: Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time

Printed: Wednesday, June 24, 2020 10:31:12 Pacific Daylight Time

Name: 200623D2_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.78e4	0.44	NO	0.811	1.000	36.343	36.52	1.087	1.092	104.52	105 78-129	0.981	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.55e4	0.43	NO	0.598	1.000	38.349	38.33	1.147	1.146	95.545	95.5 77-129	1.33	
34	34 13C-OCDF	6.30e4	0.89	NO	0.752	1.000	40.923	41.25	1.224	1.234	187.72	93.0 48-207	0.909	
35	35 37Cl-2,3,7,8-TCDD	5.26e3			1.24	1.000	26.145	26.07	1.026	1.023	8.7030	87.0 79-127	0.145	
36	36 13C-1,2,3,4-TCDD	4.86e4	0.84	NO	1.00	1.000	25.480	25.48	1.000	1.000	100.00	100	1.70	
37	37 13C-1,2,3,4-TCDF	8.07e4	0.79	NO	1.00	1.000	24.020	24.02	1.000	1.000	100.00	100	1.07	
38	38 13C-1,2,3,4,6,9-HxCDF	4.46e4	0.50	NO	1.00	1.000	33.530	33.43	1.000	1.000	100.00	100	0.929	

Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 10:33:04 Pacific Daylight Time

Printed: Wednesday, June 24, 2020 10:33:22 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 18 May 2020 14:57:34

Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Name: 200623D2_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.61
2	2 1,2,8,9-TCDD (Last)	26.94
3	3 1,2,4,7,9-PeCDD (First)	28.58
4	4 1,2,3,8,9-PeCDD (Last)	30.99
5	5 1,2,4,6,7,9-HxCDD (First)	32.40
6	6 1,2,3,7,8,9-HxCDD (Last)	34.32
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.93
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.80
9	9 1,3,6,8-TCDF (First)	20.44
10	10 1,2,8,9-TCDF (Last)	27.07
11	11 1,3,4,6,8-PeCDF (First)	27.04
12	12 1,2,3,8,9-PeCDF (Last)	31.21
13	13 1,2,3,4,6,8-HxCDF (First)	31.86
14	14 1,2,3,7,8,9-HxCDF (Last)	34.70
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.53
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.34

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 10:29:10 Pacific Daylight Time

Printed: Wednesday, June 24, 2020 10:29:27 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt.mdb 27 Apr 2020 14:17:24

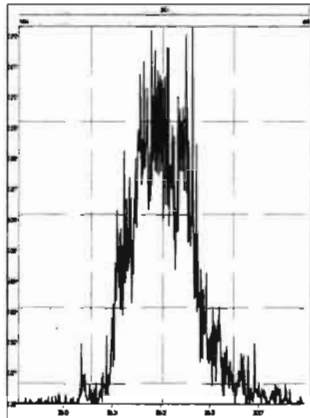
Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Compound name: 2,3,7,8-TCDD

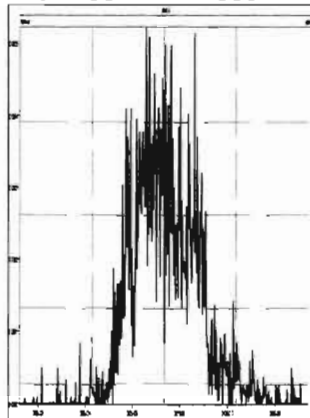
	Name	ID	Acq.Date	Acq.Time
1	200623D2_1	SOLVENT BLANK	23-Jun-20	21:25:21
2	200623D2_2	ST200623D2-1 1613 CS3 19L2305	23-Jun-20	22:10:32
3	200623D2_3	B0F0086-BS1 OPR 10	23-Jun-20	22:55:42
4	200623D2_4	SOLVENT BLANK	23-Jun-20	23:40:53
5	200623D2_5	B0F0086-BLK1 Method Blank 10	24-Jun-20	00:26:03
6	200623D2_6	B0F0086-DUP1 Duplicate 16.73	24-Jun-20	01:11:12
7	200623D2_7	2000996-02RE1 PDI-054SC-A-10-11.1-20042...	24-Jun-20	01:56:22
8	200623D2_8	2001007-04RE1 PDI-058SC-B-00-02-200505 ...	24-Jun-20	02:41:32
9	200623D2_9	2001007-05RE1 PDI-058SC-B-02-05-200505 ...	24-Jun-20	03:26:41
10	200623D2_10	2001007-06RE1 PDI-058SC-B-05-07-200505 ...	24-Jun-20	04:11:51

Printed: Tuesday, June 23, 2020 21:25:23 Pacific Daylight Time

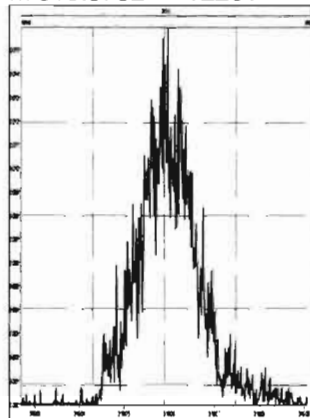
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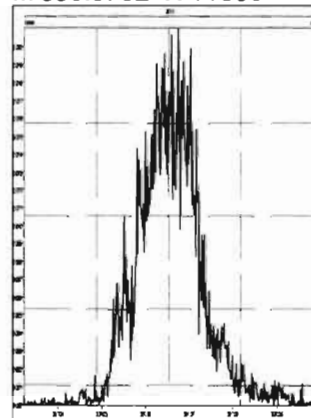
M 304.9824 R 14839



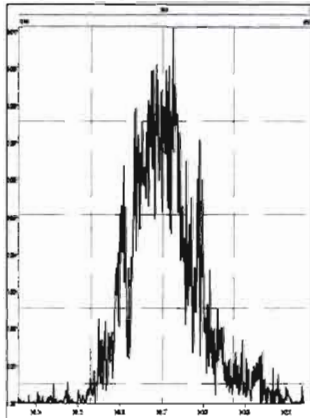
M 318.9792 R 12261



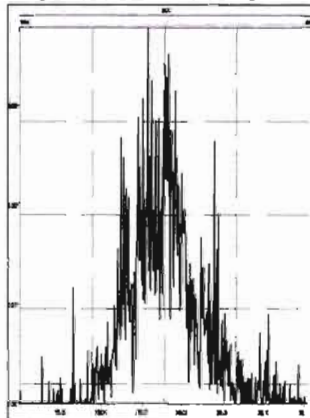
M 330.9792 R 11860



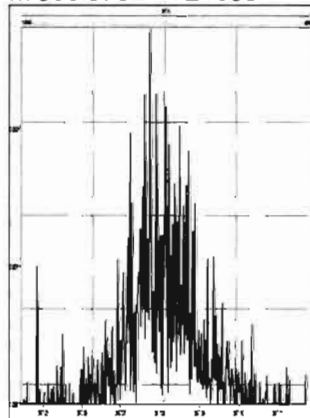
M 342.9792 R 13715



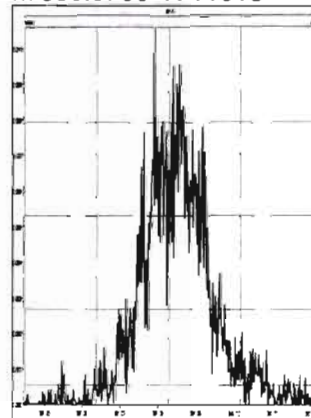
M 354.9792 R 14946



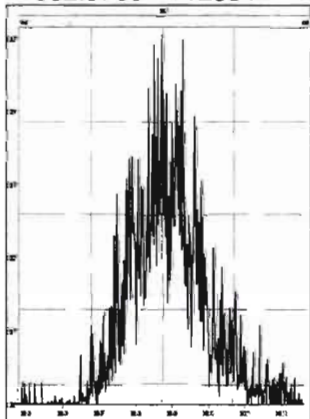
M 366.9792 R 21635



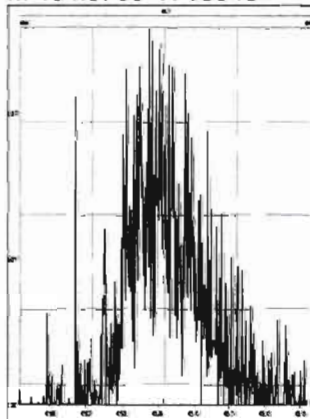
M 380.9760 R 11618



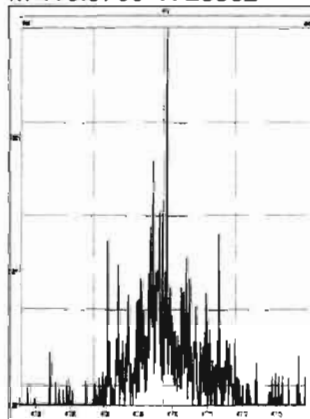
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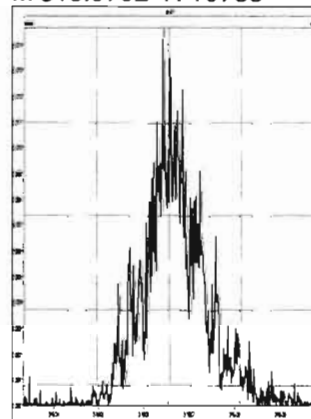
M 404.9760 R 15945



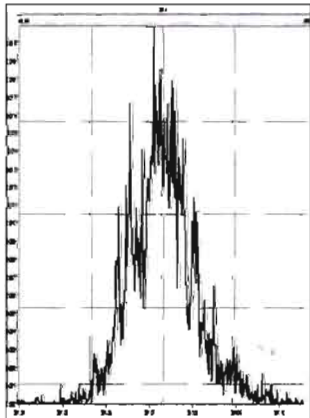
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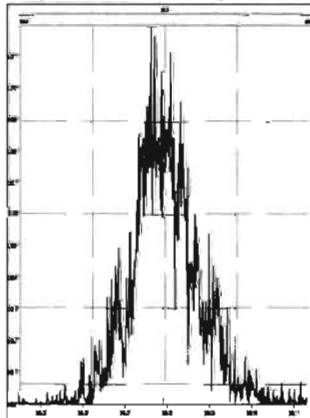
M 318.9792 R 10753



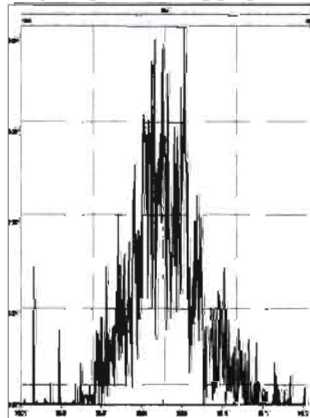
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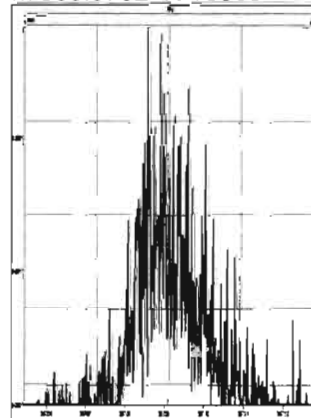
M 342.9792 R 10357



M 354.9792 R 15549

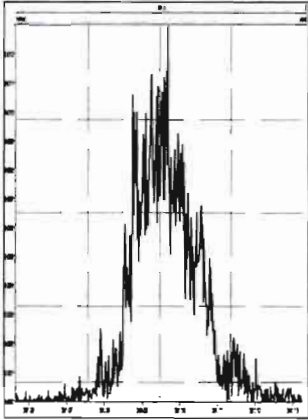


M 366.9792 R 18605

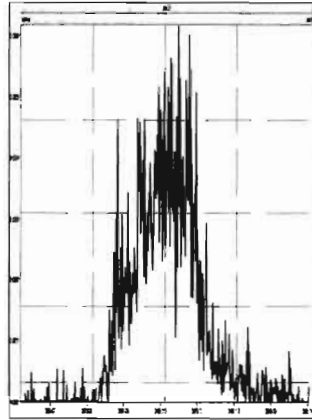


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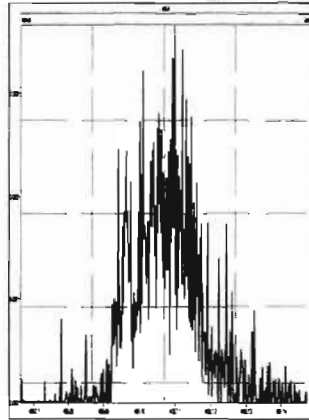
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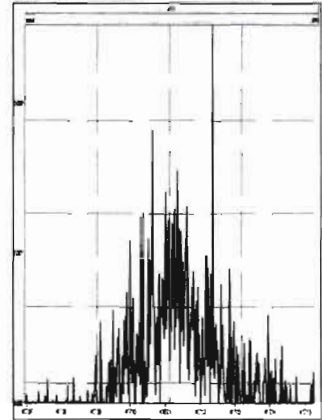
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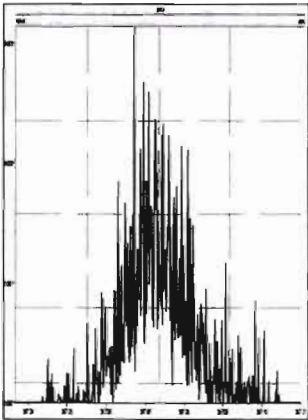
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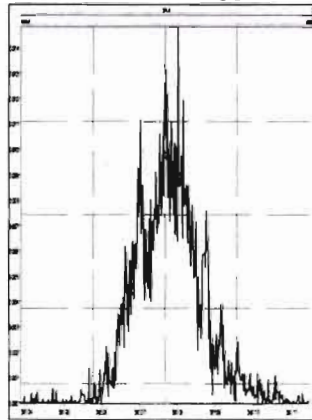
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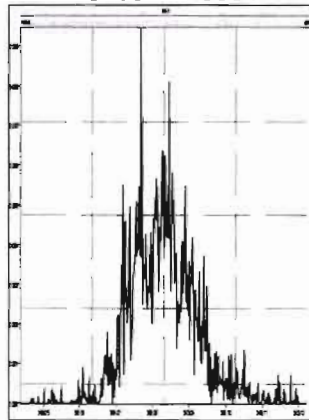
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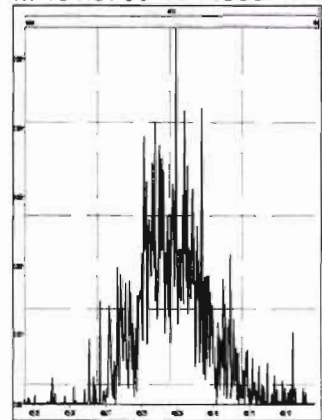
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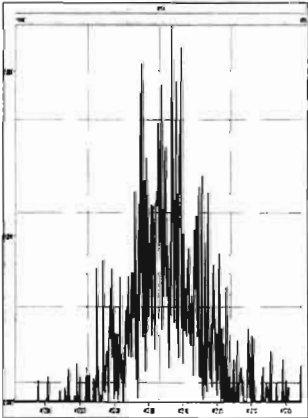
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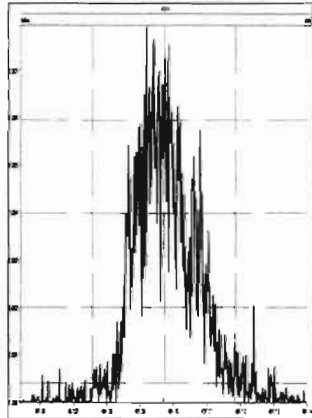
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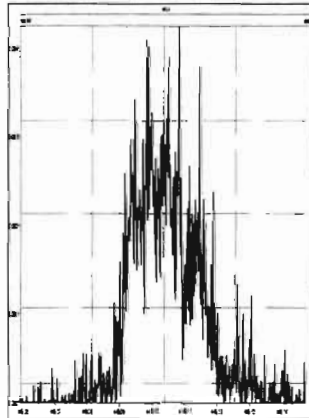
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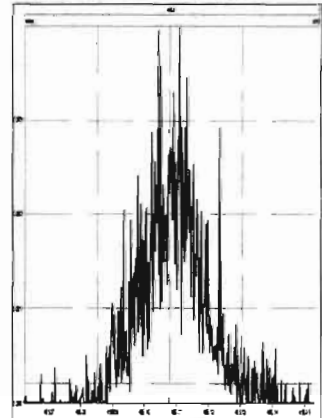
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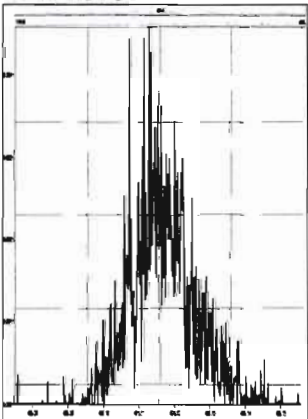
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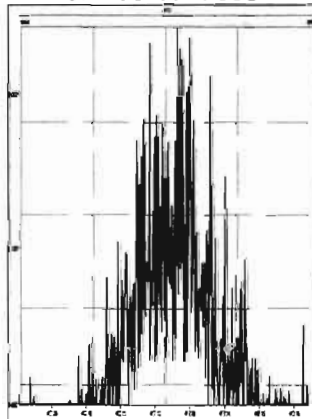
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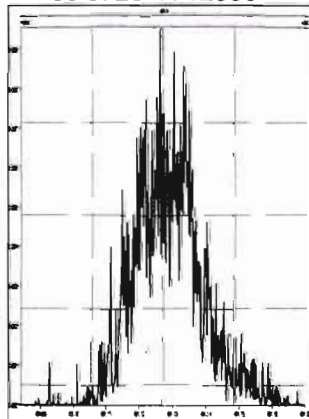
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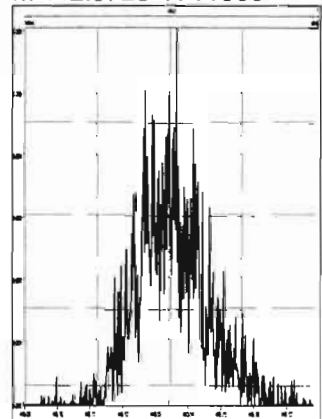
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M 430.9728 R 12358

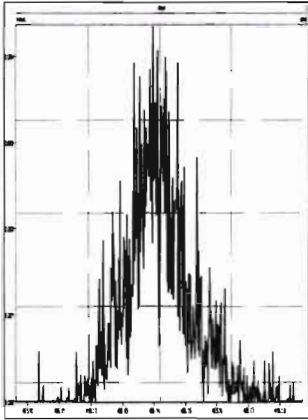


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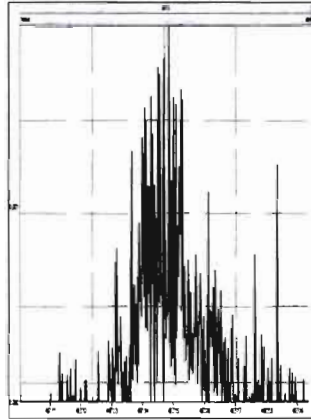


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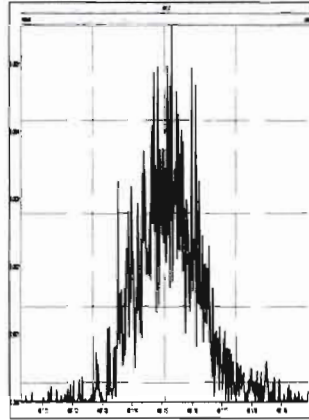
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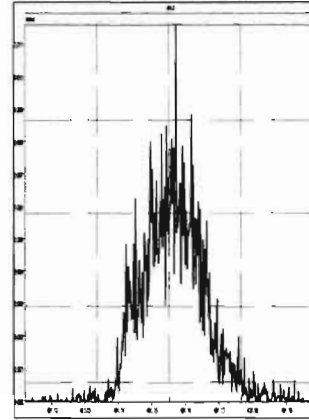
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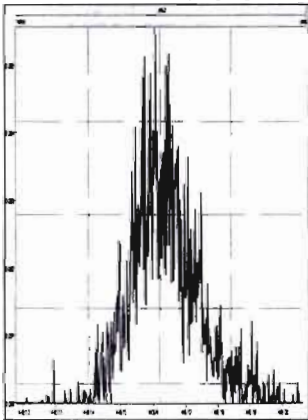
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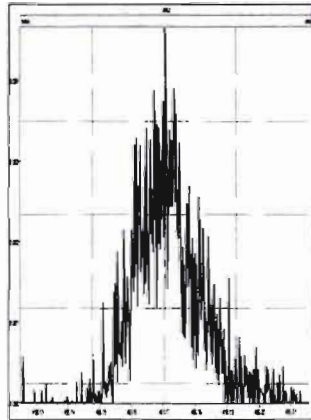
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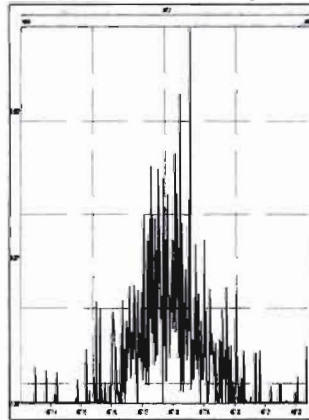
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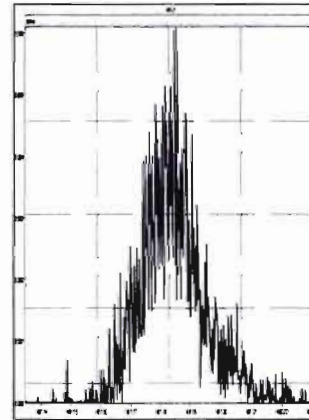
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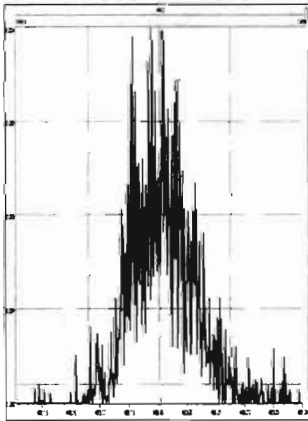
M 466.9728 R 35053



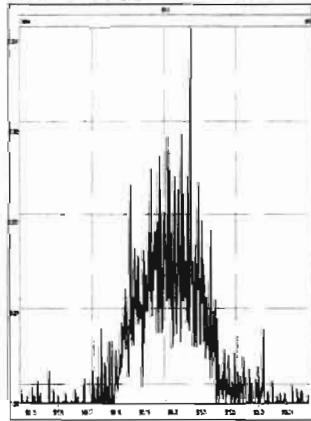
M 480.9696 R 13335



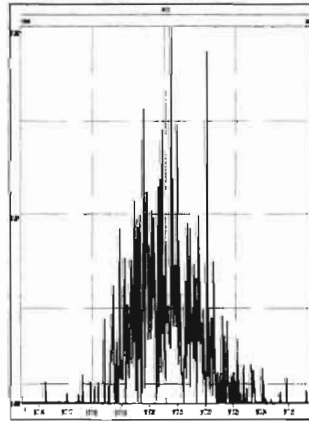
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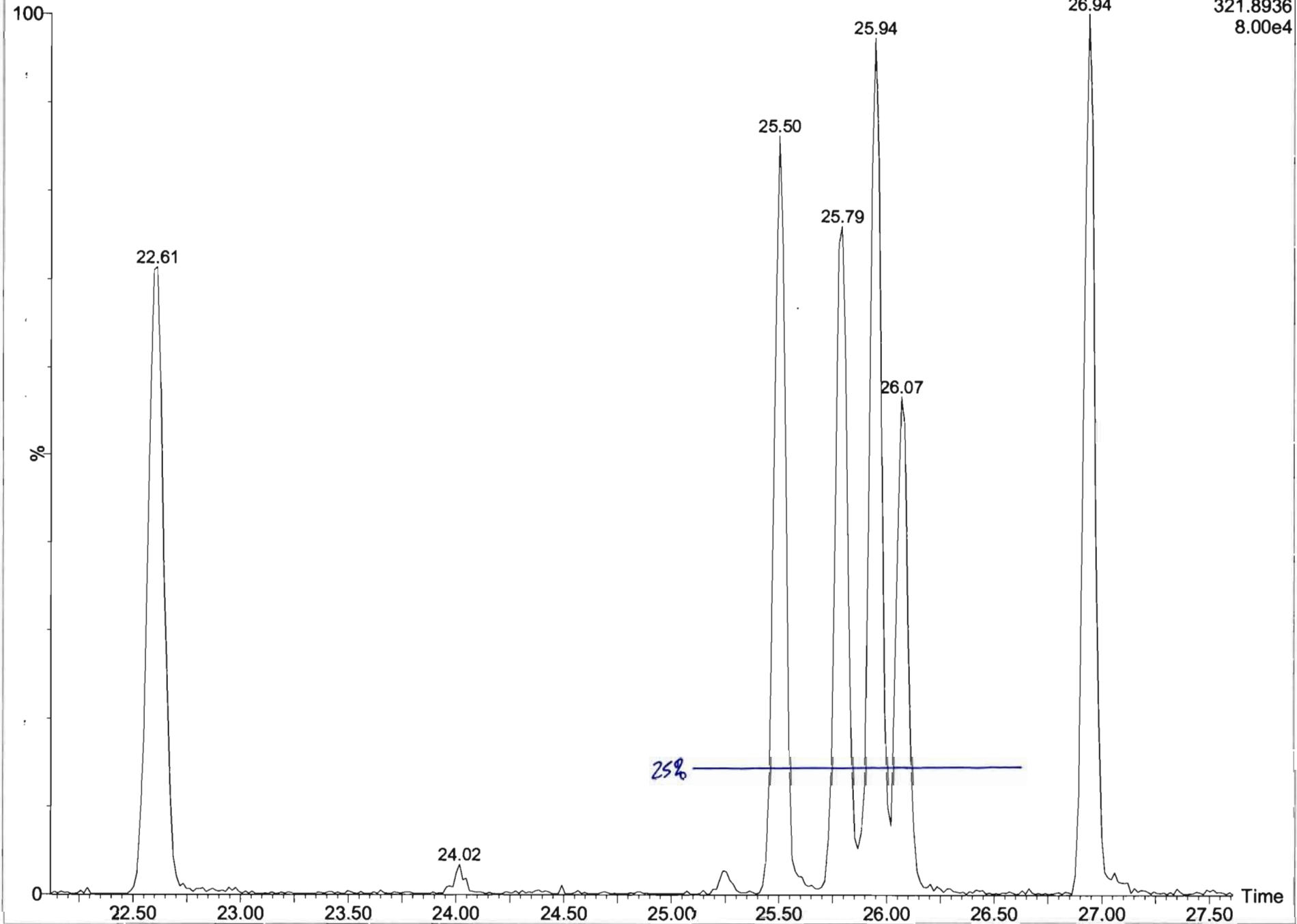


M 504.9696 R 14498



M 516.9697 R 36676





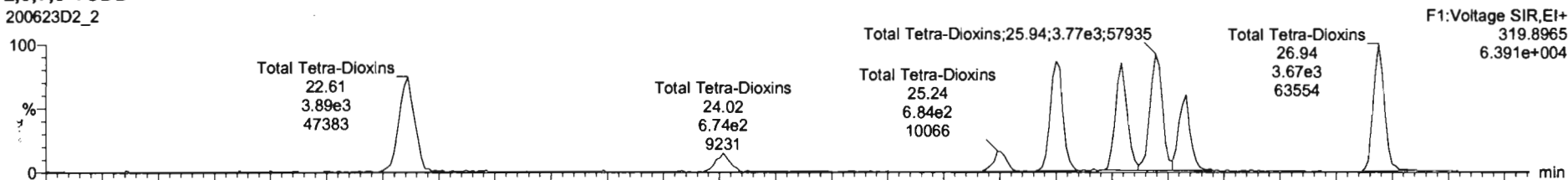
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Printed: Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time

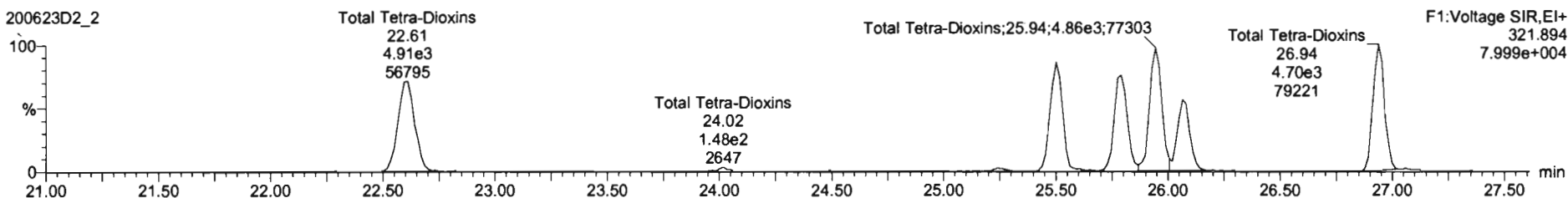
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Calibration: U:\VG7.PRO\CurveDB\5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Name: 200623D2_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

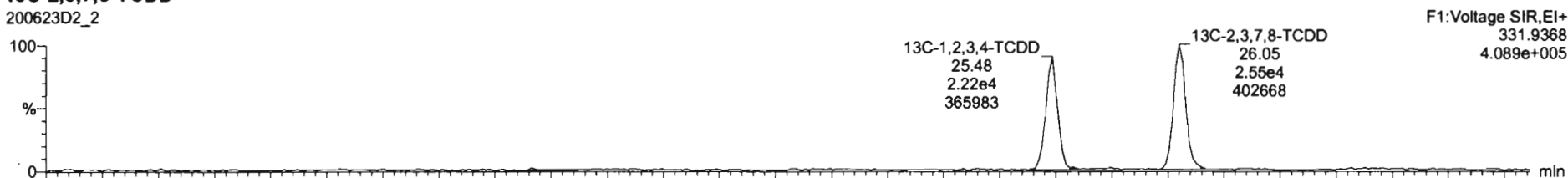
2,3,7,8-TCDD
200623D2_2



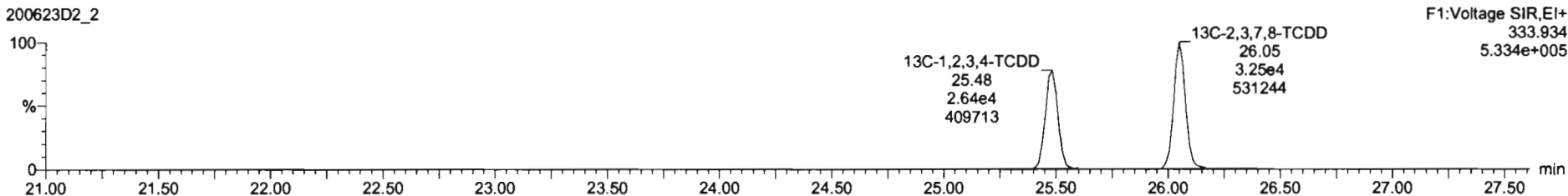
200623D2_2



13C-2,3,7,8-TCDD
200623D2_2



200623D2_2

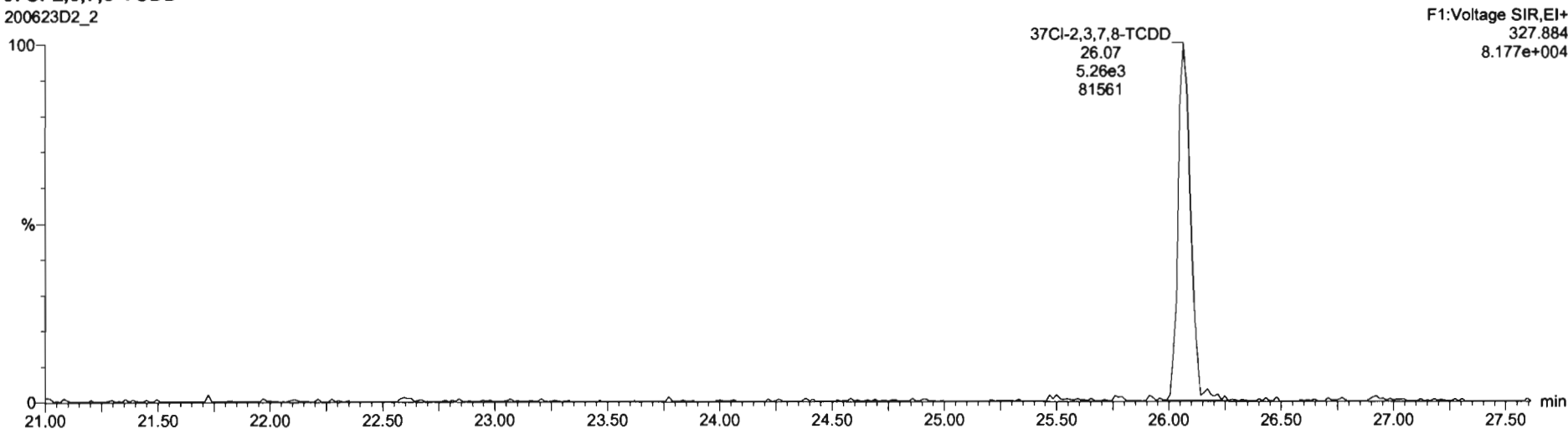


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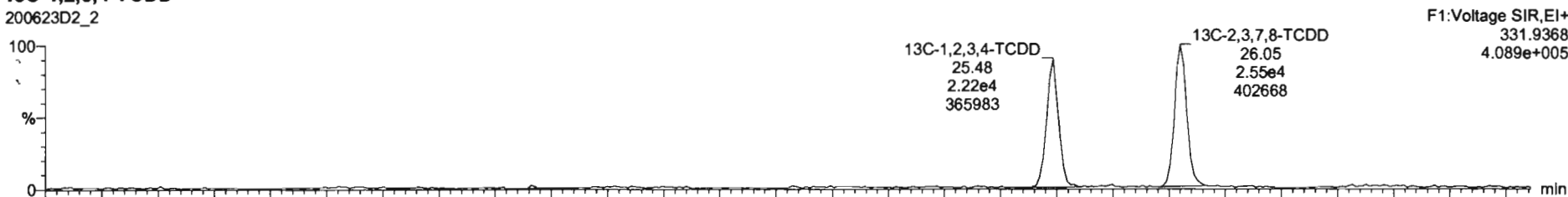
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Name: 200623D2_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

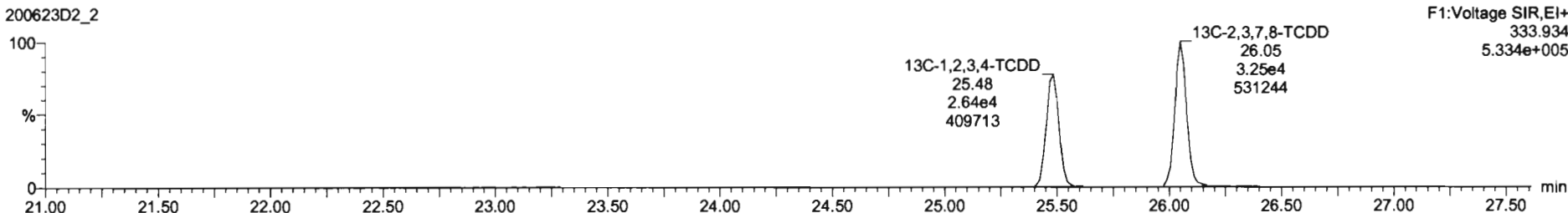
37Cl-2,3,7,8-TCDD
200623D2_2



13C-1,2,3,4-TCDD
200623D2_2



200623D2_2



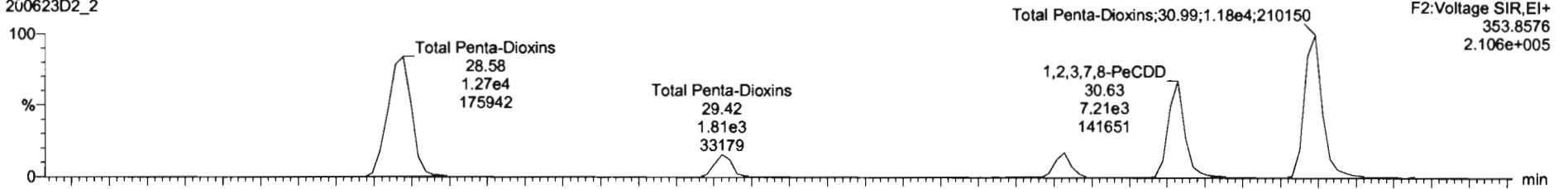
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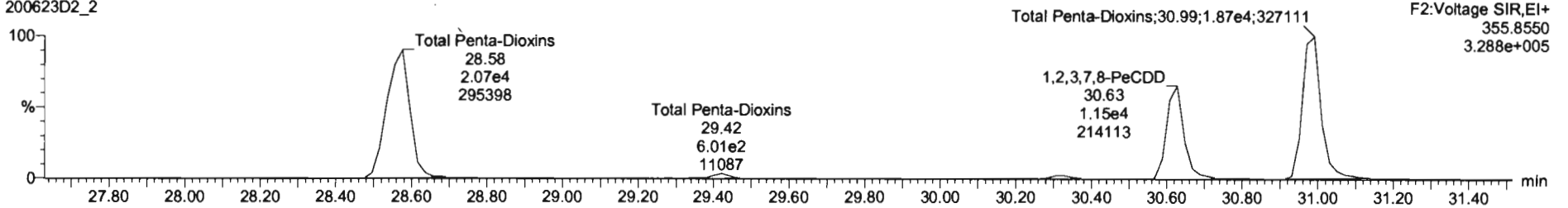
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1,2,3,7,8-PeCDD

200623D2_2

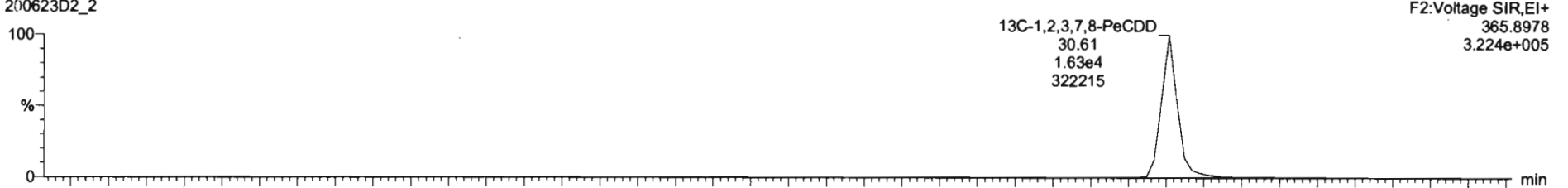


200623D2_2

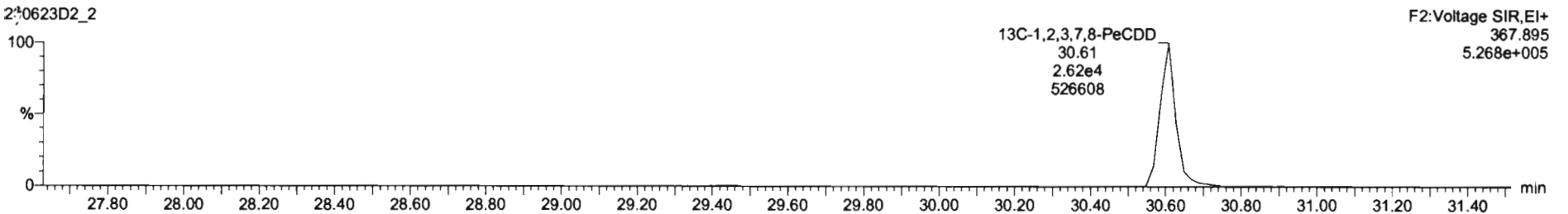


13C-1,2,3,7,8-PeCDD

200623D2_2



200623D2_2



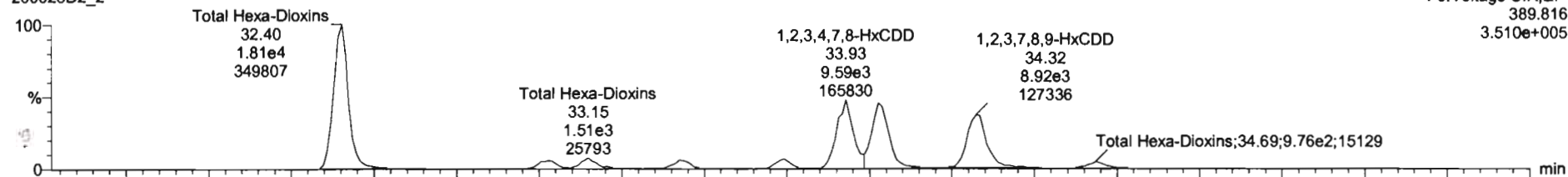
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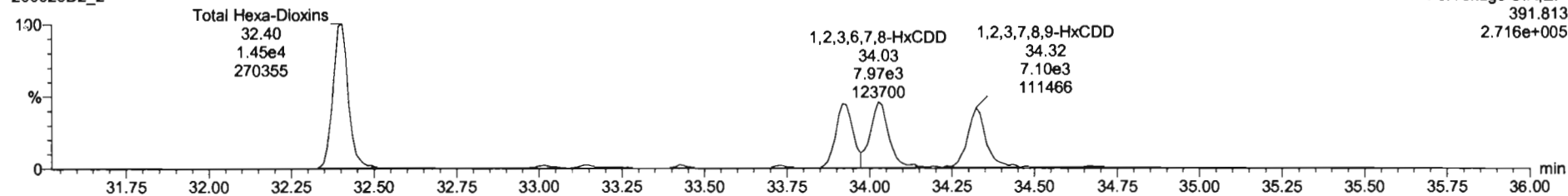
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1,2,3,4,7,8-HxCDD

200623D2_2

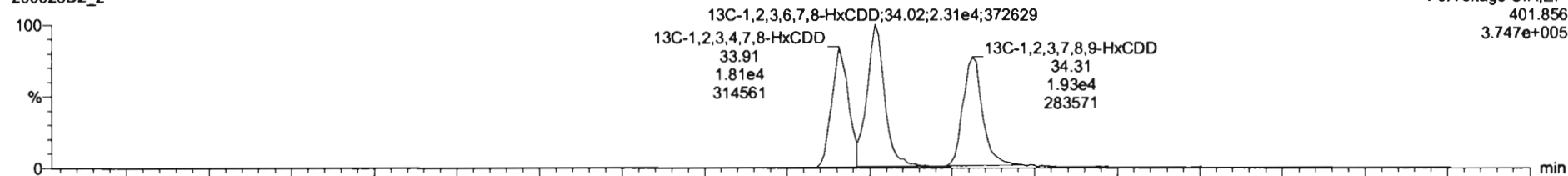


200623D2_2

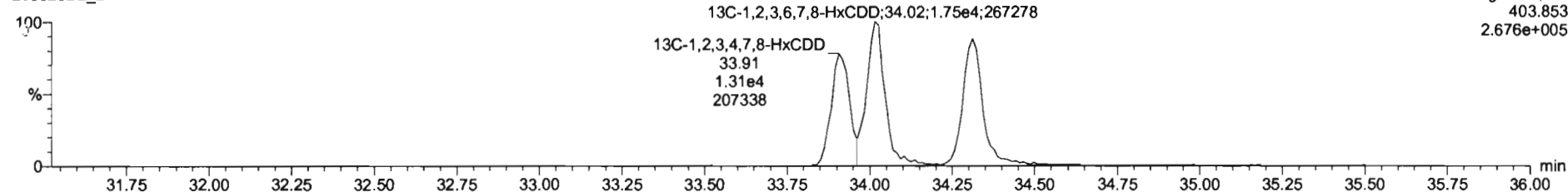


13C-1,2,3,4,7,8-HxCDD

200623D2_2



200623D2_2



Dataset: U:\VG7.PRO\Results\200623D2\200623D2_2.qld

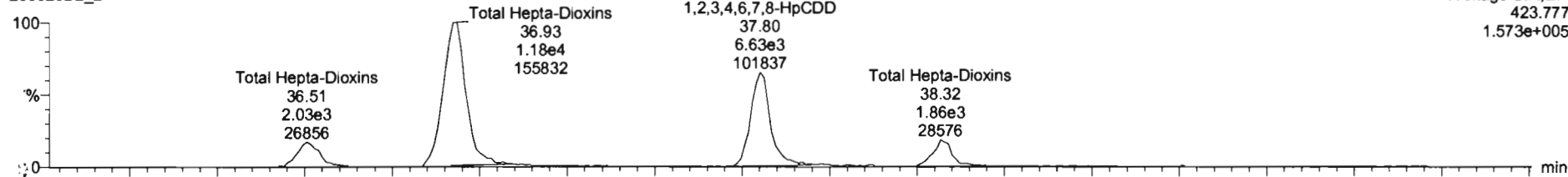
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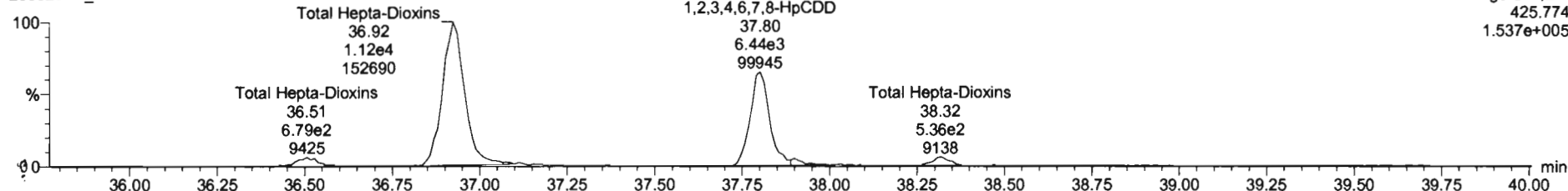
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1,2,3,4,6,7,8-HpCDD

200623D2_2

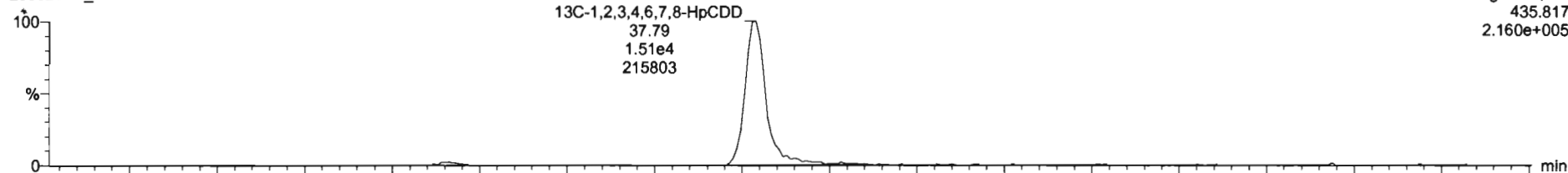


200623D2_2

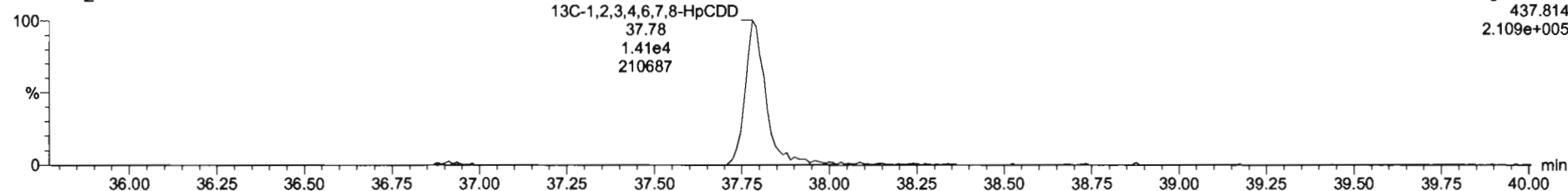


13C-1,2,3,4,6,7,8-HpCDD

200623D2_2



200623D2_2



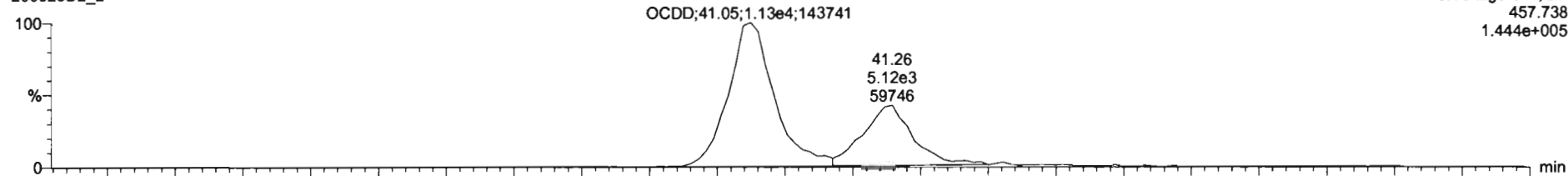
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Printed: Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time

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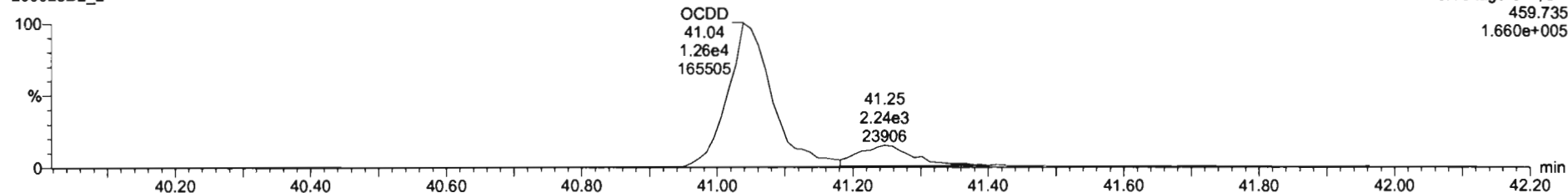
OCDD

200623D2_2



F5:Voltage SIR,EI+
457.738
1.444e+005

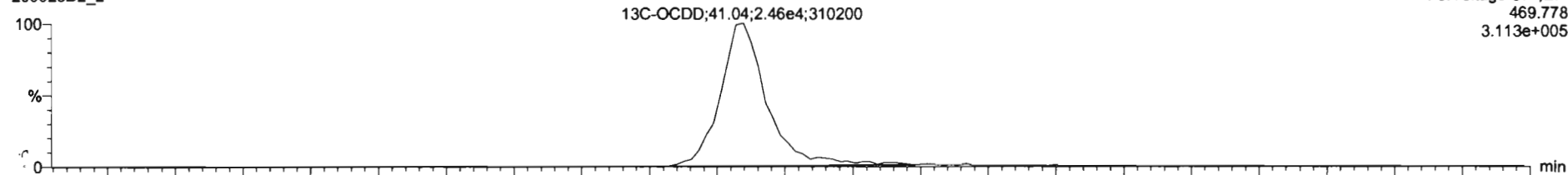
200623D2_2



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459.735
1.660e+005

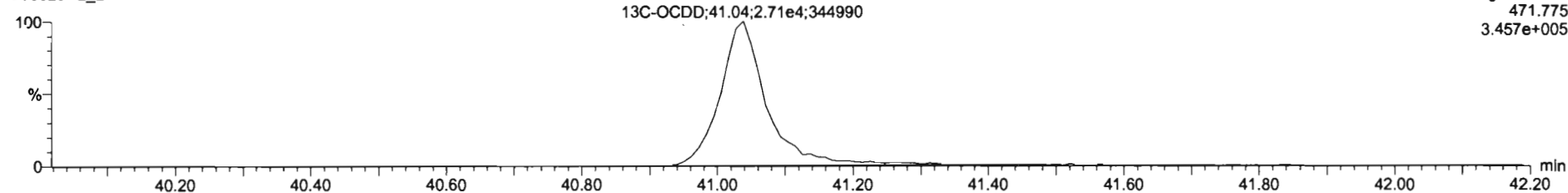
13C-OCDD

200623D2_2



F5:Voltage SIR,EI+
469.778
3.113e+005

200623D2_2



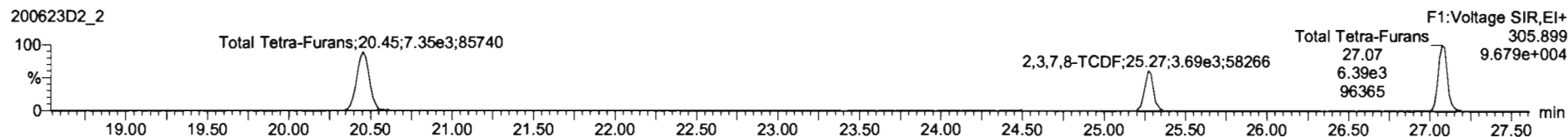
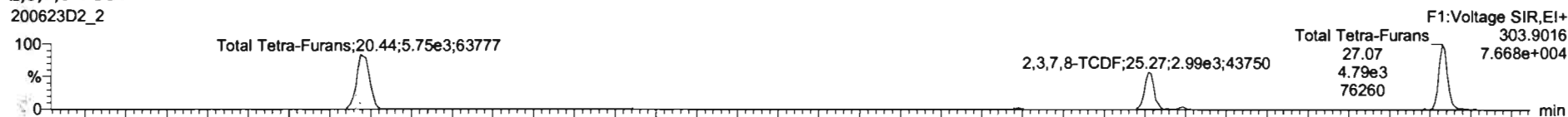
F5:Voltage SIR,EI+
471.775
3.457e+005

Dataset: U:\VG7.PRO\Results\200623D2\200623D2_2.qld

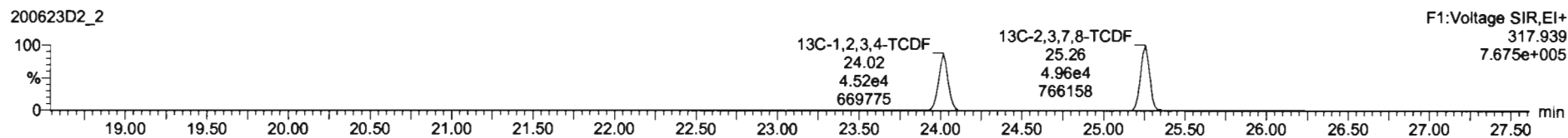
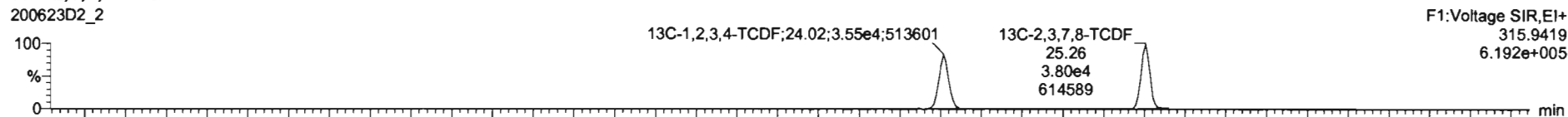
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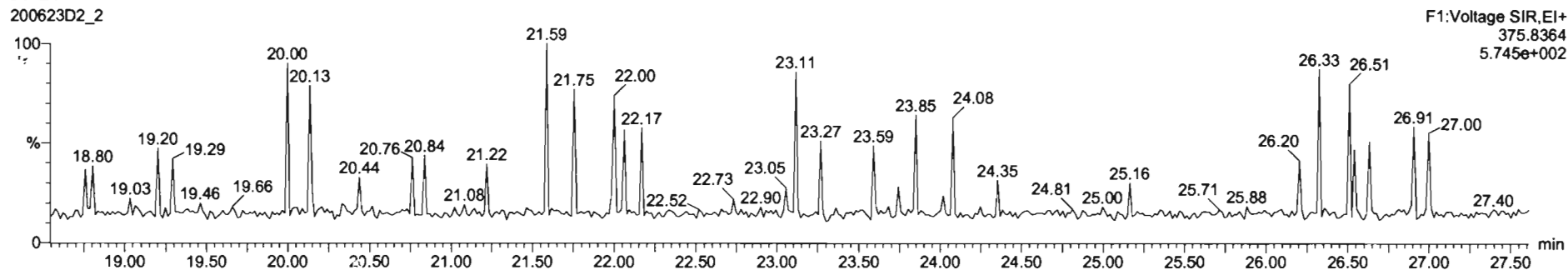
2,3,7,8-TCDF



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



DPE1



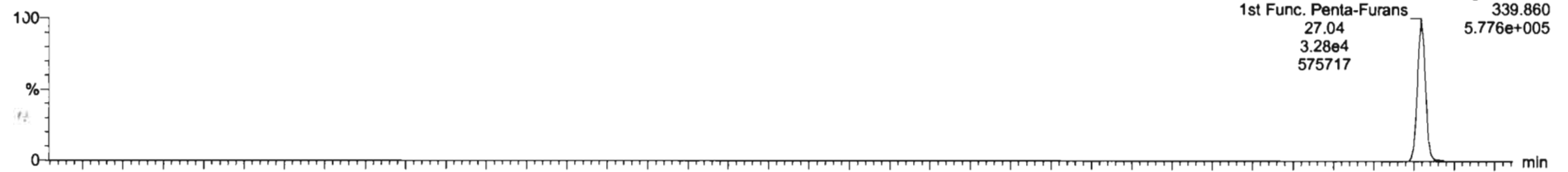
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Printed: Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time

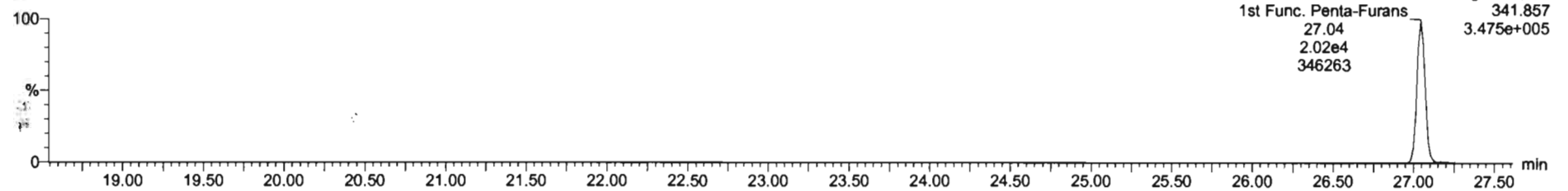
Name: 200623D2_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200623D2_2

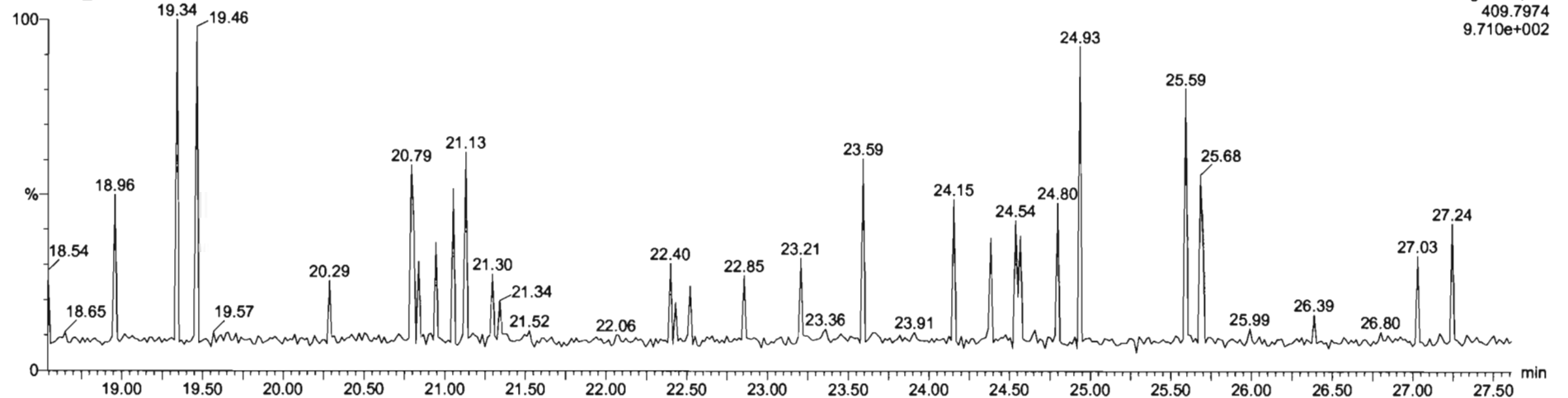


200623D2_2



DPE6

200623D2_2



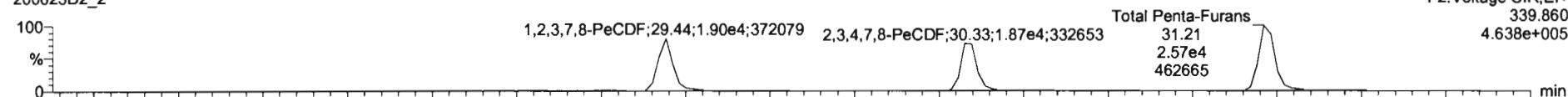
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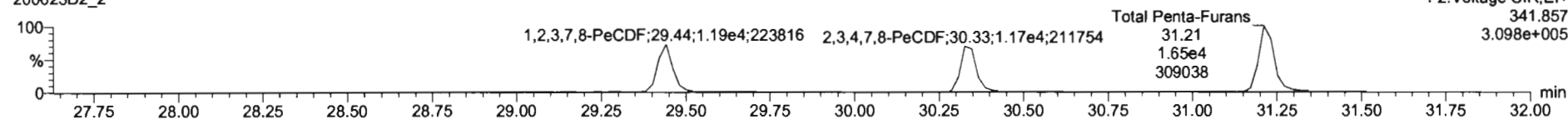
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1,2,3,7,8-PeCDF

200623D2_2

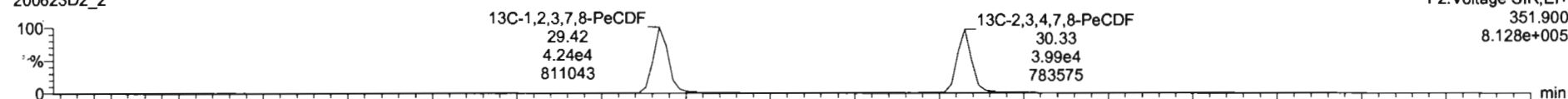


200623D2_2

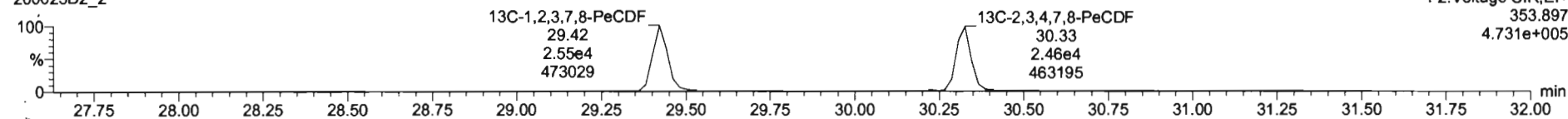


13C-1,2,3,7,8-PeCDF

200623D2_2

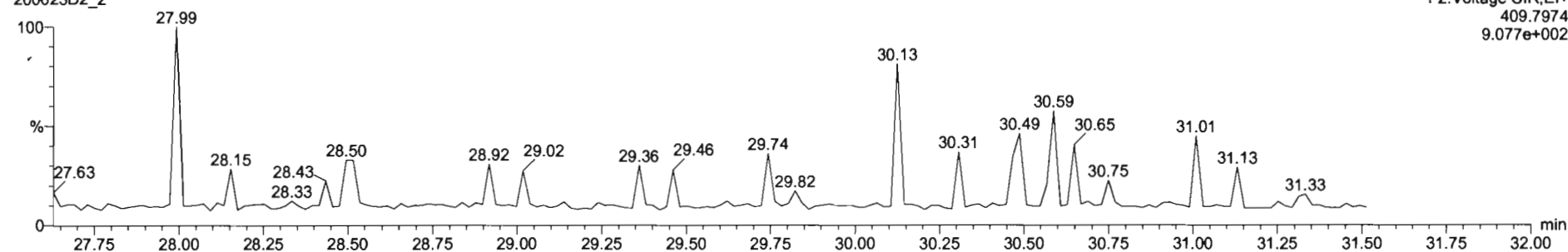


200623D2_2



DPE2

200623D2_2

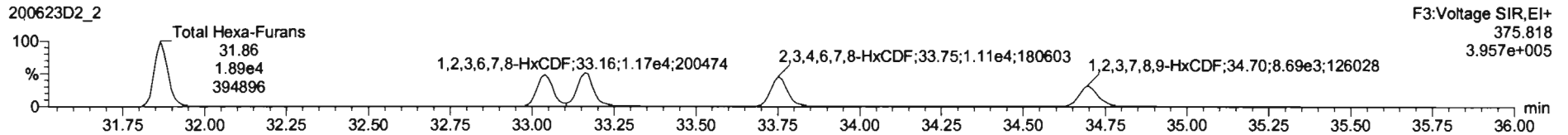
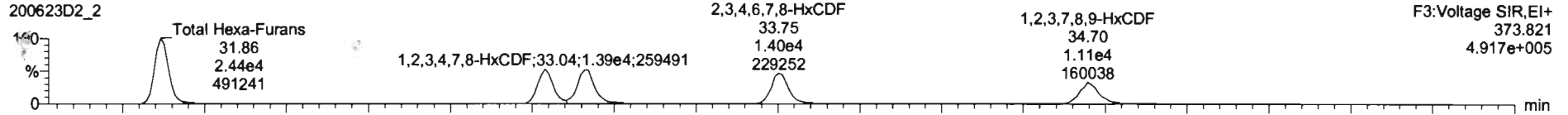


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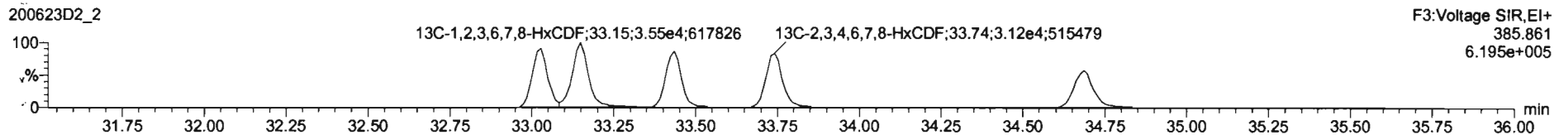
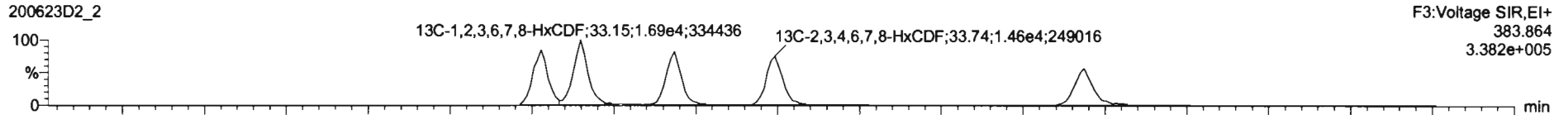
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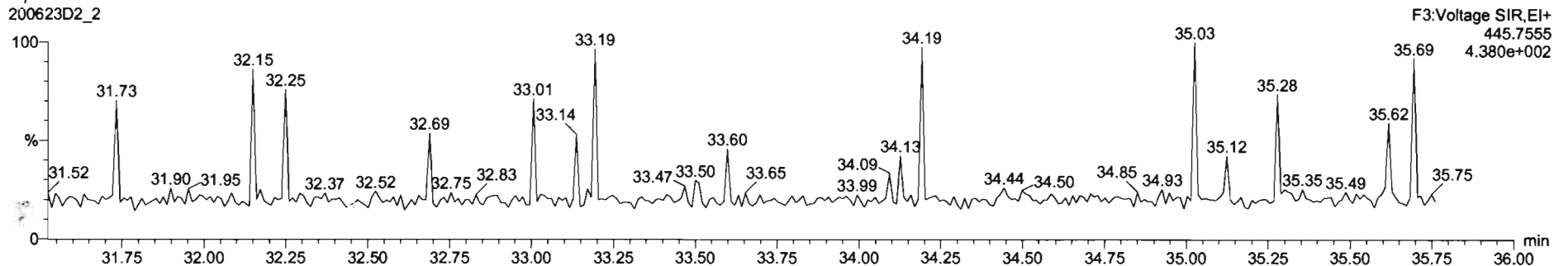
1,2,3,4,7,8-HxCDF



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



DPE3

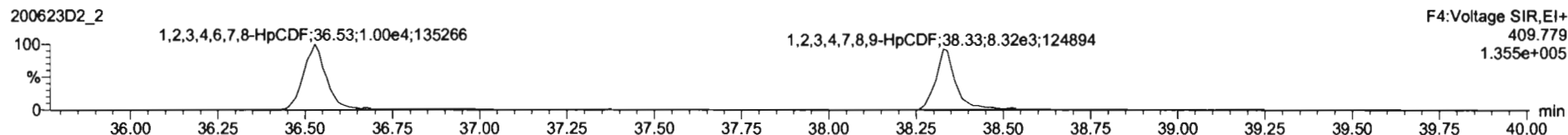
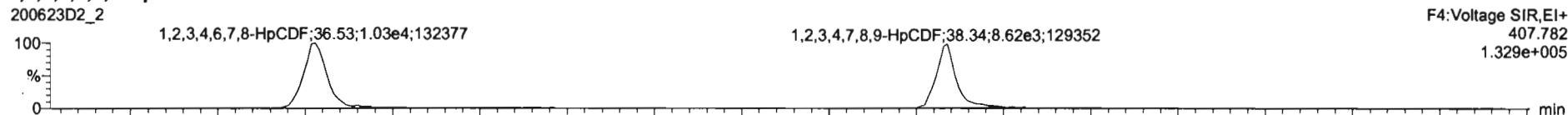


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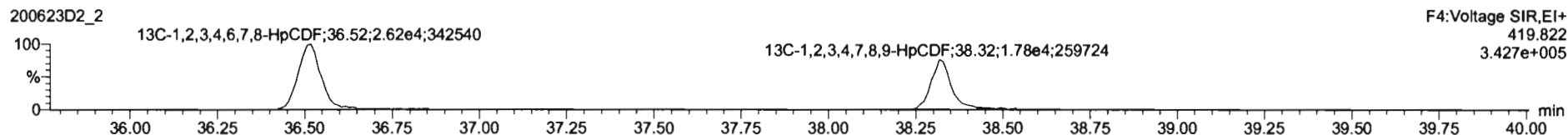
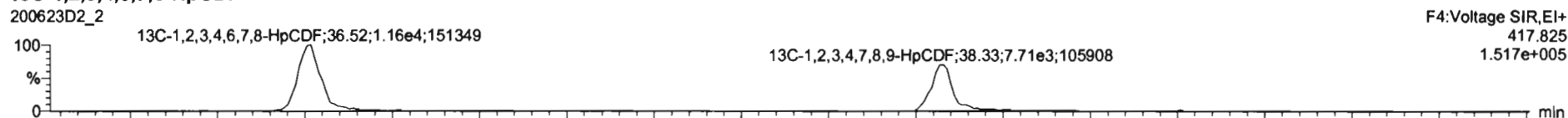
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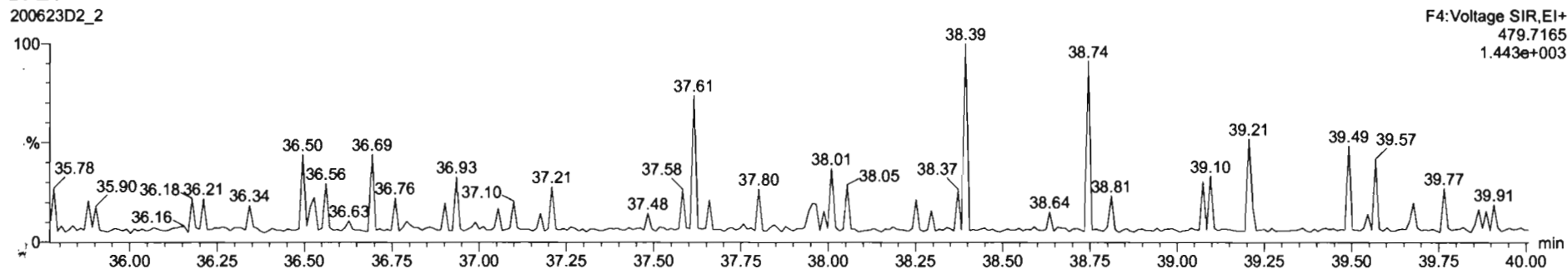
1,2,3,4,6,7,8-HpCDF



¹³C-1,2,3,4,6,7,8-HpCDF



DPE4



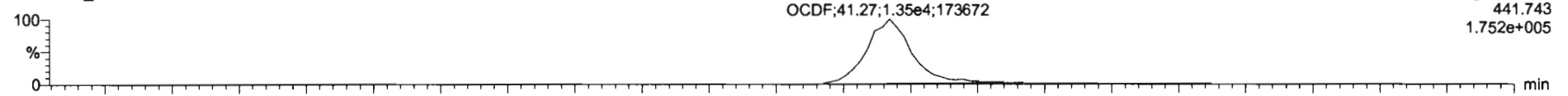
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Last Altered: Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time
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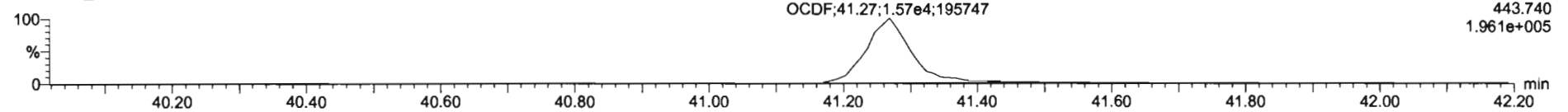
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OCDF

200623D2_2

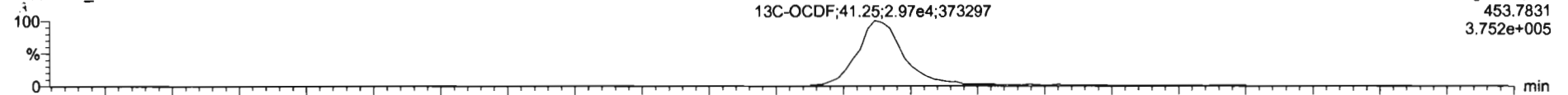


200623D2_2

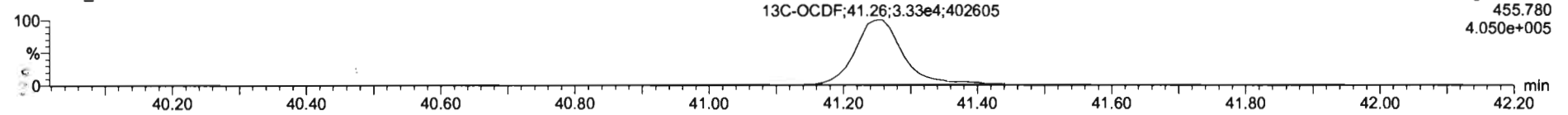


13C-OCDF

200623D2_2

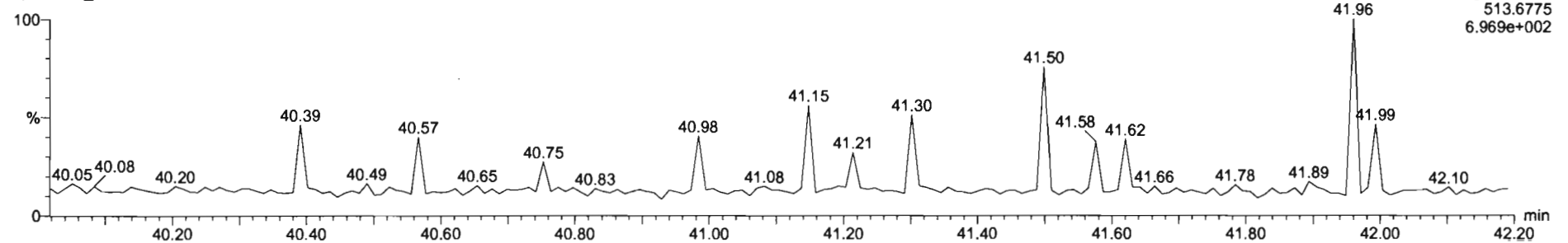


200623D2_2



DPE5

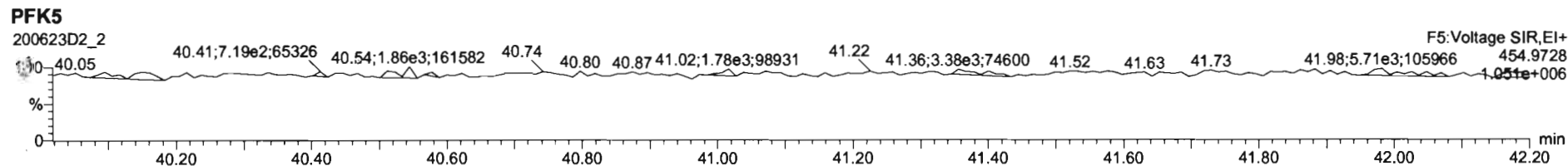
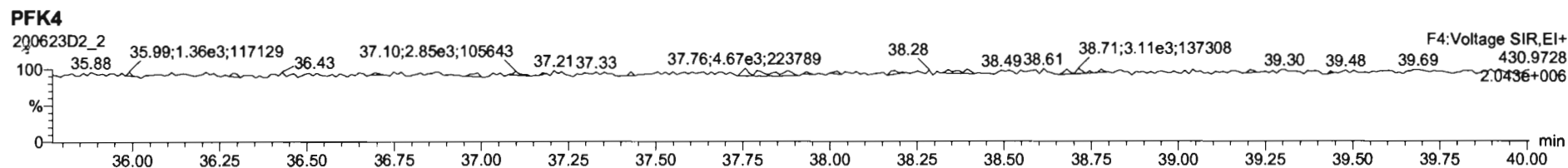
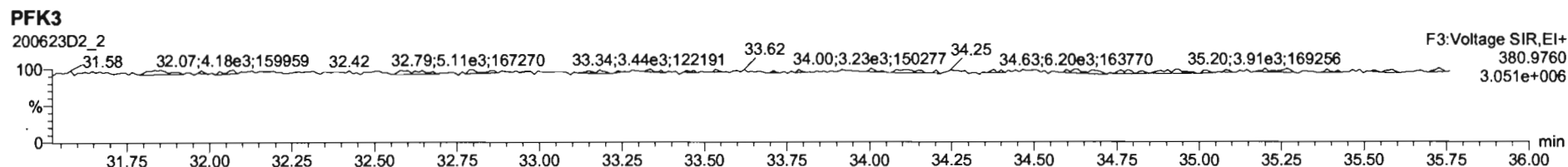
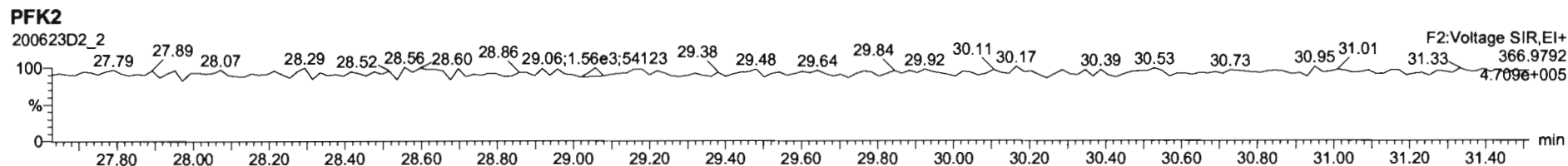
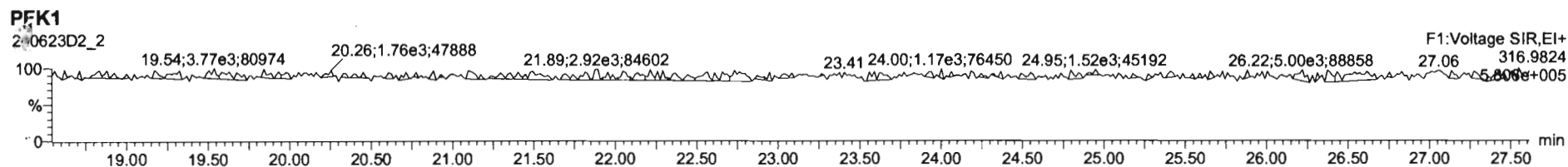
200623D2_2



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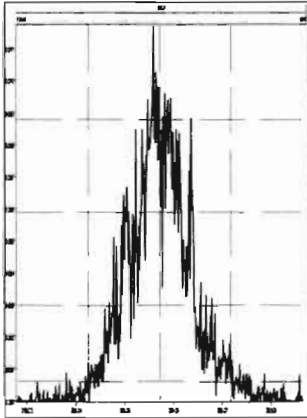
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Printed: Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time

Name: 200623D2_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

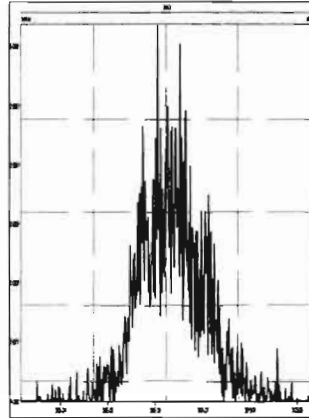


Printed: Wednesday, June 24, 2020 05:05:31 Pacific Daylight Time

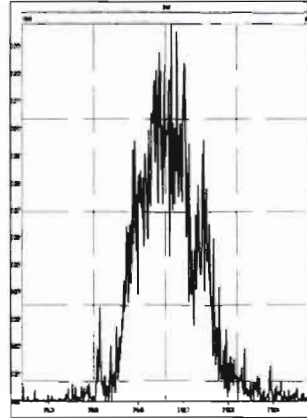
M 292.9824 R 12166



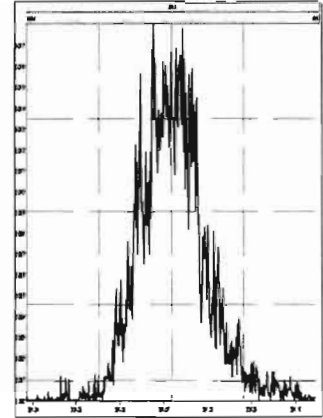
M 304.9824 R 14226



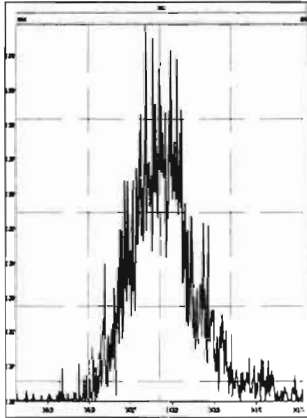
M 318.9792 R 12502



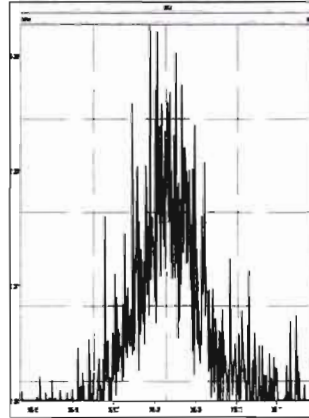
M 330.9792 R 11696



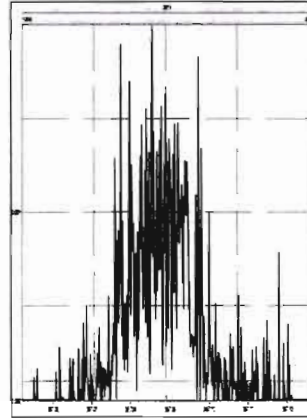
M 342.9792 R 12809



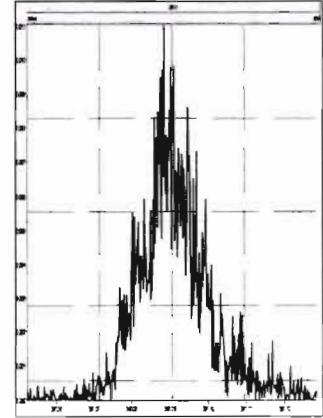
M 354.9792 R 15434



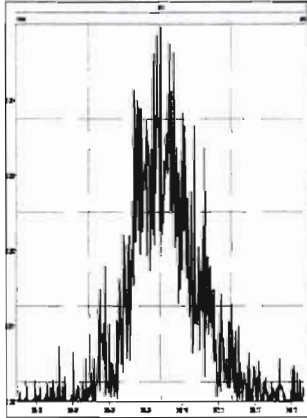
M 366.9792 R 20396



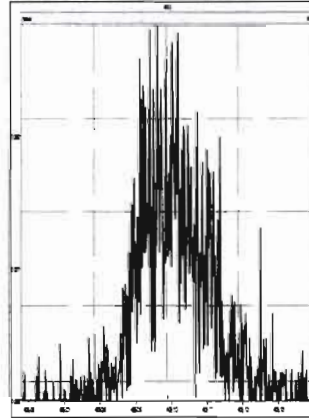
M 380.9760 R 12169



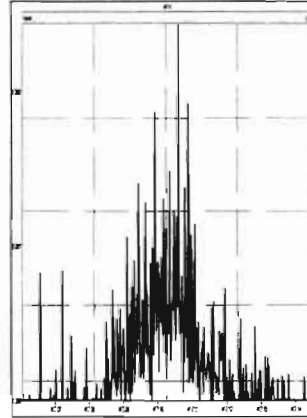
M 392.9760 R 13735



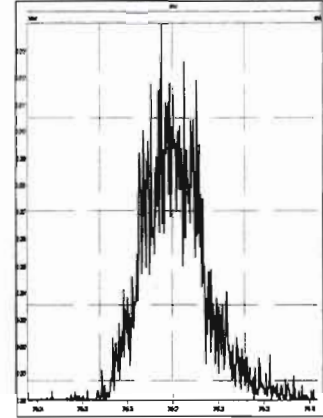
M 404.9760 R 19901



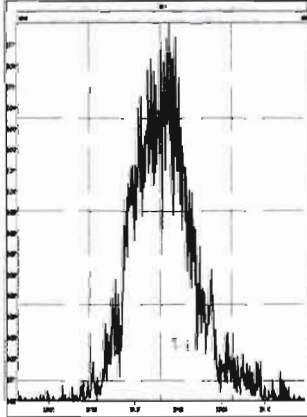
M 416.9760 R 39569



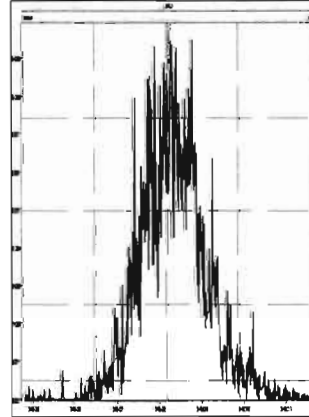
M 318.9792 R 12259



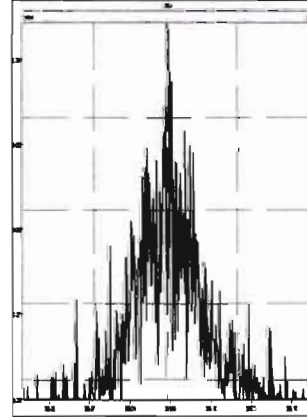
M 330.9792 R 13089



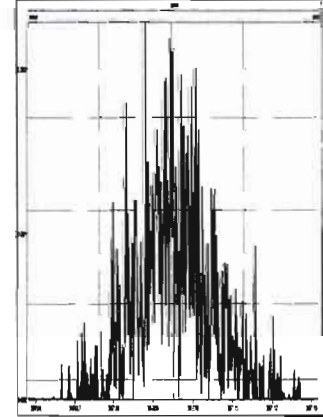
M 342.9792 R 12490



M 354.9792 R 16413

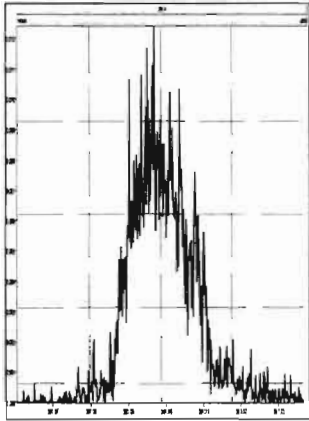


M 366.9792 R 25098

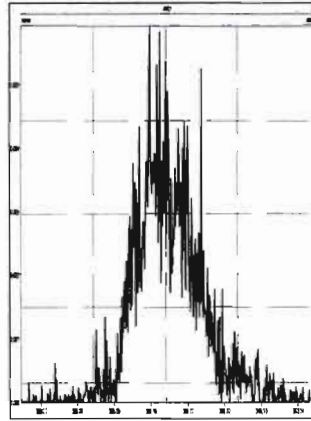


Printed: Wednesday, June 24, 2020 05:05:31 Pacific Daylight Time

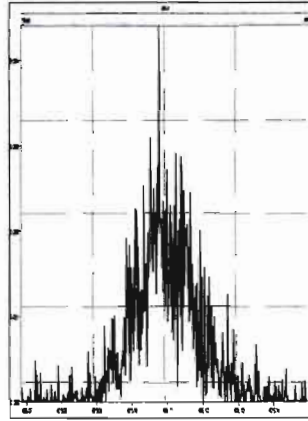
M 380.9760 R 14454



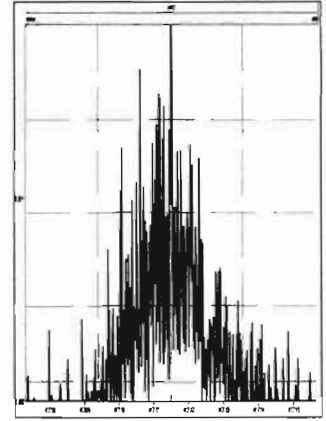
M 392.9760 R 14452



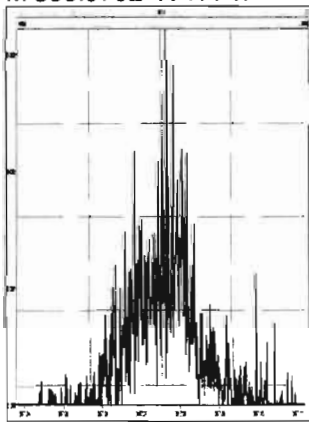
M 404.9760 R 16566



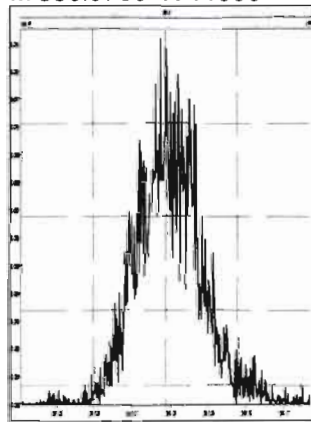
M 416.9760 R 22389



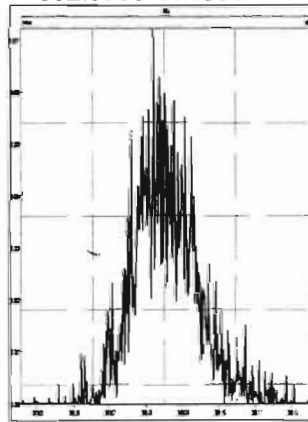
M 366.9792 R 17747



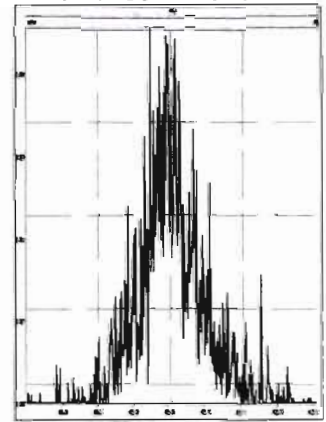
M 380.9760 R 11990



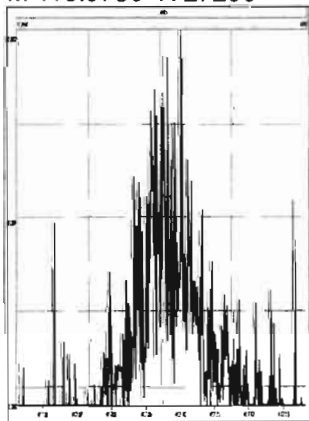
M 392.9760 R 13664



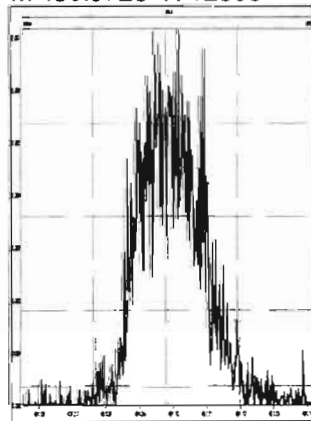
M 404.9760 R 15702



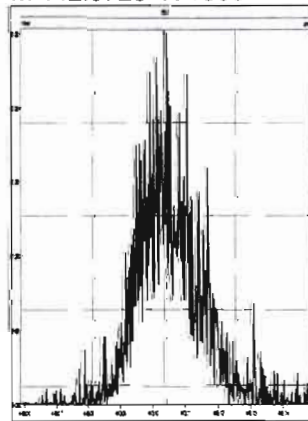
M 416.9760 R 27290



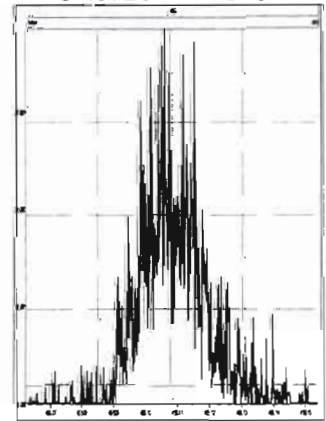
M 430.9728 R 12898



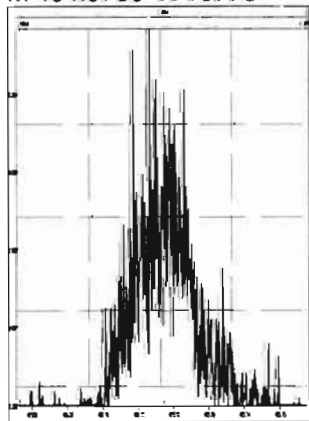
M 442.9728 R 13934



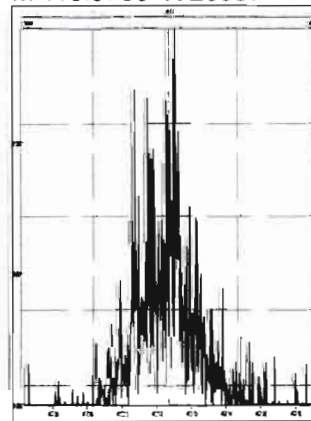
M 454.9728 R 14618



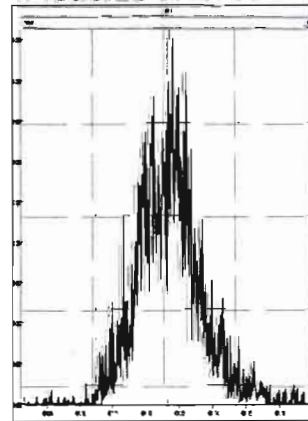
M 404.9760 R 16773



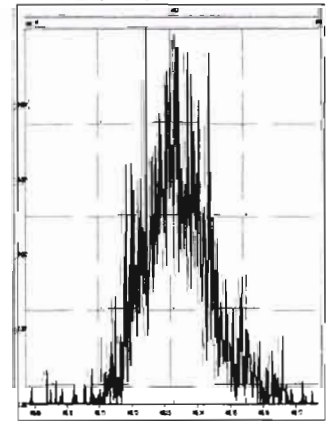
M 416.9760 R 20937



M 430.9728 R 11154

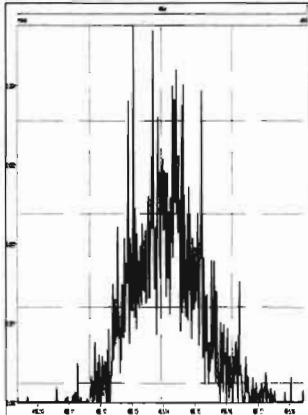


M 442.9728 R 12746

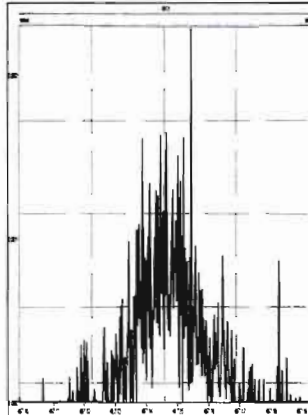


Printed: Wednesday, June 24, 2020 05:05:31 Pacific Daylight Time

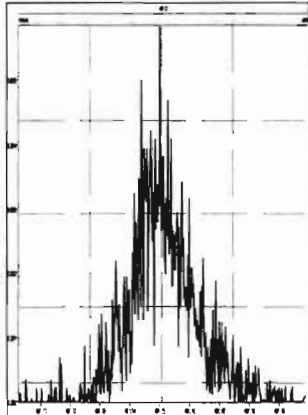
M 454.9728 R 12954



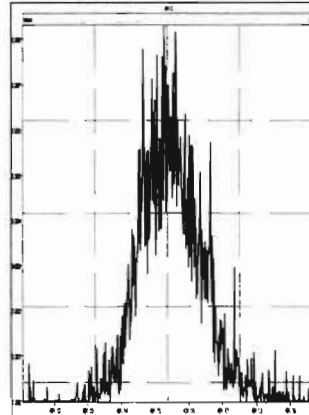
M 466.9728 R 28577



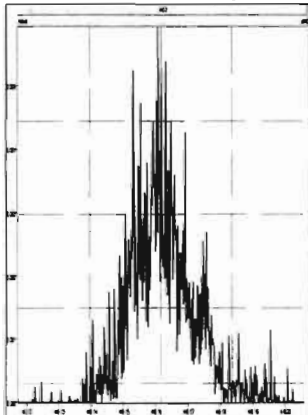
M 480.9696 R 14023



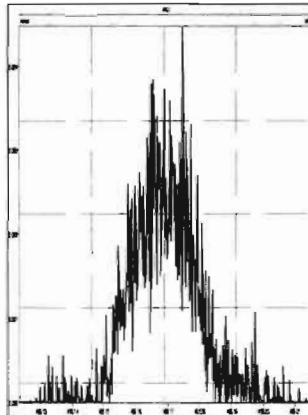
M 430.9728 R 12707



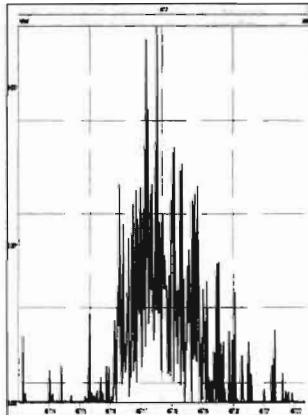
M 442.9728 R 15263



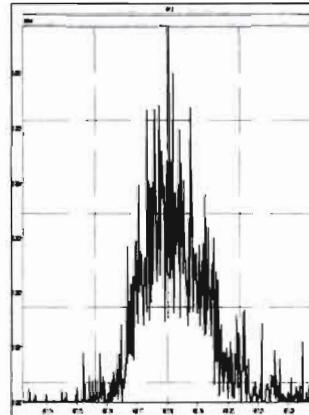
M 454.9728 R 16051



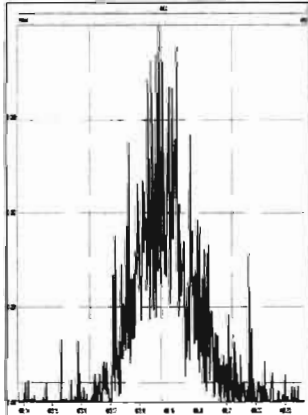
M 466.9728 R 24124



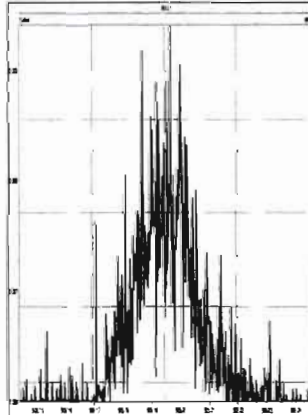
M 480.9696 R 13763



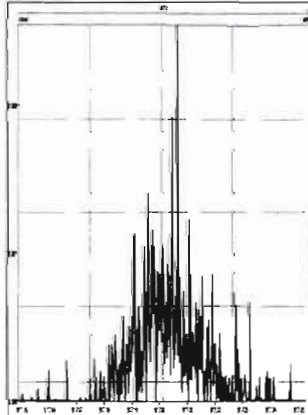
M 492.9696 R 15316



M 504.9696 R 16751



M 516.9697 R 48362



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

II
Beg. Calibration ID: ST200628R1

Reviewed By: CT 06/29/2020
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 checked="" type="checkbox"/>	<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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox" value="NA"/>
(ST-Year-Month-Day-VG ID)					
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	<input type="checkbox" value="GPO"/>	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
- Samples within 12 hour clock?	<input type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>			
- Bottle position verified?	<input type="checkbox" value="GPO"/>	<input type="checkbox"/>			

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-1.qld

Last Altered: Monday, June 29, 2020 06:42:23 Pacific Daylight Time

Printed: Monday, June 29, 2020 06:42:53 Pacific Daylight Time

GPB 06/29/2020

C7 06/29/2020

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: 200628R1_1, Date: 28-Jun-2020, Time: 10:25:29, ID: ST200628R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	5.44e4	5.76e5	0.75	NO	0.888	26.50	26.48	NO	1.001	1.001	10.633	106	NO
2	2 1,2,3,7,8-PeCDD	1.71e5	4.06e5	0.64	NO	0.908	31.46	31.45	NO	1.001	1.000	46.533	93.1	NO
3	3 1,2,3,4,7,8-HxCDD	1.27e5	2.55e5	1.25	NO	1.03	34.82	34.84	NO	1.000	1.001	48.387	96.8	NO
4	4 1,2,3,6,7,8-HxCDD	1.99e5	4.42e5	1.21	NO	0.892	34.92	34.93	NO	1.000	1.000	50.508	101	NO
5	5 1,2,3,7,8,9-HxCDD	1.60e5	3.72e5	1.21	NO	0.887	35.22	35.22	NO	1.000	1.000	48.601	97.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.04e5	2.43e5	1.02	NO	0.864	38.77	38.77	NO	1.000	1.000	49.576	99.2	NO
7	7 OCDD	2.16e5	4.79e5	0.87	NO	0.914	41.75	41.77	NO	1.000	1.001	98.717	98.7	NO
8	8 2,3,7,8-TCDF	5.26e4	6.92e5	0.73	NO	0.751	25.60	25.59	NO	1.001	1.001	10.121	101	NO
9	9 1,2,3,7,8-PeCDF	2.65e5	6.24e5	1.55	NO	0.893	30.17	30.17	NO	1.001	1.001	47.560	95.1	NO
10	10 2,3,4,7,8-PeCDF	2.63e5	5.67e5	1.58	NO	0.935	31.18	31.16	NO	1.001	1.000	49.579	99.2	NO
11	11 1,2,3,4,7,8-HxCDF	1.57e5	3.52e5	1.23	NO	0.884	33.94	33.96	NO	1.000	1.001	50.340	101	NO
12	12 1,2,3,6,7,8-HxCDF	2.28e5	5.20e5	1.21	NO	0.889	34.08	34.08	NO	1.000	1.000	49.426	98.9	NO
13	13 2,3,4,6,7,8-HxCDF	1.86e5	4.29e5	1.21	NO	0.934	34.69	34.67	NO	1.001	1.000	46.310	92.6	NO
14	14 1,2,3,7,8,9-HxCDF	1.38e5	3.17e5	1.20	NO	0.871	35.57	35.58	NO	1.000	1.000	49.901	99.8	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.44e5	3.15e5	1.02	NO	0.873	37.38	37.36	NO	1.001	1.001	52.314	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.05e5	1.98e5	1.00	NO	1.01	39.30	39.32	NO	1.000	1.001	52.180	104	NO
17	17 OCDF	2.27e5	5.51e5	0.87	NO	0.806	41.94	41.95	NO	1.000	1.000	102.11	102	NO
18	18 13C-2,3,7,8-TCDD	5.76e5	4.43e5	0.80	NO	1.16	26.49	26.47	NO	1.026	1.026	112.30	112	NO
19	19 13C-1,2,3,7,8-PeCDD	4.06e5	4.43e5	0.63	NO	0.849	31.67	31.44	NO	1.227	1.218	107.73	108	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.55e5	3.78e5	1.29	NO	0.779	34.82	34.81	NO	1.014	1.014	86.548	86.5	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.42e5	3.78e5	1.26	NO	1.02	34.93	34.92	NO	1.017	1.017	115.01	115	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.72e5	3.78e5	1.25	NO	0.903	35.20	35.21	NO	1.025	1.025	109.14	109	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.43e5	3.78e5	1.03	NO	0.689	38.73	38.76	NO	1.128	1.129	93.457	93.5	NO
24	24 13C-OCDD	4.79e5	3.78e5	0.88	NO	0.652	41.75	41.75	NO	1.216	1.216	194.24	97.1	NO
25	25 13C-2,3,7,8-TCDF	6.92e5	6.26e5	0.73	NO	1.06	25.53	25.57	NO	0.989	0.991	104.31	104	NO
26	26 13C-1,2,3,7,8-PeCDF	6.24e5	6.26e5	1.58	NO	0.838	30.06	30.15	NO	1.165	1.168	118.92	119	NO
27	27 13C-2,3,4,7,8-PeCDF	5.67e5	6.26e5	1.62	NO	0.817	31.01	31.15	NO	1.202	1.207	110.92	111	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.52e5	3.78e5	0.50	NO	1.01	33.95	33.94	NO	0.989	0.989	92.485	92.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.20e5	3.78e5	0.51	NO	1.17	34.07	34.07	NO	0.992	0.992	117.92	118	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.29e5	3.78e5	0.51	NO	1.02	34.65	34.65	NO	1.009	1.009	111.23	111	NO

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-1.qld

Last Altered: Monday, June 29, 2020 06:42:23 Pacific Daylight Time

Printed: Monday, June 29, 2020 06:42:53 Pacific Daylight Time

Name: 200628R1_1, Date: 28-Jun-2020, Time: 10:25:29, ID: ST200628R1_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
31	31 13C-1,2,3,7,8,9-HxCDF	3.17e5	3.78e5	0.51	NO	0.860	35.55	35.57	NO	1.035	1.036	97.554	97.6	NO
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.15e5	3.78e5	0.43	NO	0.774	37.30	37.34	NO	1.086	1.087	107.64	108	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.98e5	3.78e5	0.43	NO	0.521	39.32	39.30	NO	1.145	1.145	100.51	101	NO
34	34 13C-OCDF	5.51e5	3.78e5	0.86	NO	0.746	41.92	41.94	NO	1.221	1.221	195.72	97.9	NO
35	35 37Cl-2,3,7,8-TCDD	5.06e4	4.43e5			1.04	26.52	26.48	NO	1.028	1.026	11.006	110	NO
36	36 13C-1,2,3,4-TCDD	4.43e5	4.43e5	0.79	NO	1.00	25.89	25.81	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	6.26e5	6.26e5	0.78	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	3.78e5	3.78e5	0.54	NO	1.00	34.42	34.34	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Monday, June 29, 2020 06:43:07 Pacific Daylight Time

Printed: Monday, June 29, 2020 06:43:28 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: 200628R1_1, Date: 28-Jun-2020, Time: 10:25:29, ID: ST200628R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.46
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)	33.33
6	6 1,2,3,7,8,9-HxCDD (Last)	35.22
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.75
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)	39.32

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, June 29, 2020 06:50:53 Pacific Daylight Time

Printed: Monday, June 29, 2020 06:51:07 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

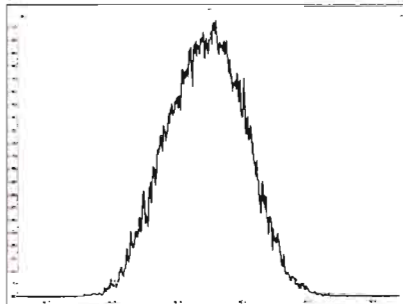
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200628R1_1	ST200628R1_1 1613 CS3 19L2305	28-Jun-20	10:25:29
2	200628R1_2	B0F0202-BS1 OPR 10	28-Jun-20	11:11:44
3	200628R1_3	B0F0244-BS1 OPR 5	28-Jun-20	11:57:55
4	200628R1_4	SOLVENT BLANK	28-Jun-20	12:44:07
5	200628R1_5	B0F0202-BLK1 Method Blank 10	28-Jun-20	13:30:19
6	200628R1_6	B0F0244-BLK1 Method Blank 5	28-Jun-20	14:16:29
7	200628R1_7	2001132-03 PDI-172SC-A-05-06-200520 10.96	28-Jun-20	15:02:41
8	200628R1_8	2001155-01 PDI-1175SC-A-01-02-200522 11.08	28-Jun-20	15:48:53
9	200628R1_9	2001155-02 PDI-175SC-A-00-01-200522 11.02	28-Jun-20	16:35:04
10	200628R1_10	2001155-03 PDI-175SC-A-01-02-200522 11.03	28-Jun-20	17:21:16
11	200628R1_11	2001155-04 PDI-175SC-A-02-03-200522 11.47	28-Jun-20	18:07:28
12	200628R1_12	B0F0086-DUP2 Duplicate 11.49	28-Jun-20	18:53:39
13	200628R1_13	2001155-05 PDI-175SC-A-03-04-200522 11.58	28-Jun-20	19:39:49
14	200628R1_14	2001223-01 Omega Gelly 5	28-Jun-20	20:26:00
15	200628R1_15	B0F0202-DUP1 Duplicate 13.64	28-Jun-20	21:12:13

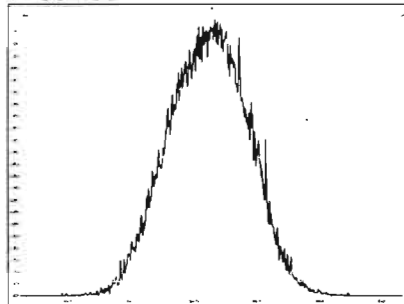
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Sunday, June 28, 2020 10:20:48 Pacific Daylight Time

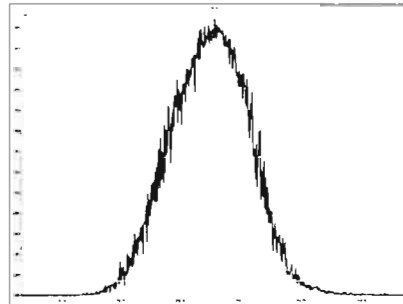
M 292.9824 R 10728



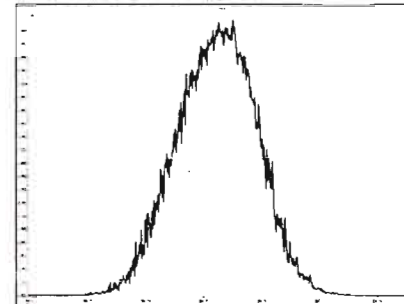
M 304.9824 R 10778



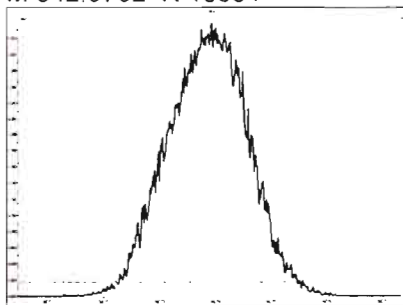
M 318.9792 R 11111



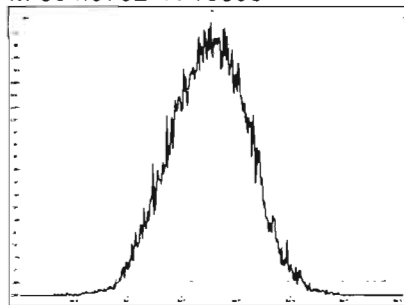
M 330.9792 R 10727



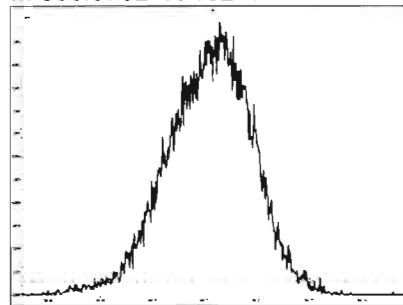
M 342.9792 R 10684



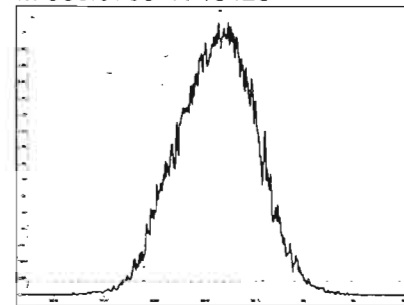
M 354.9792 R 10596



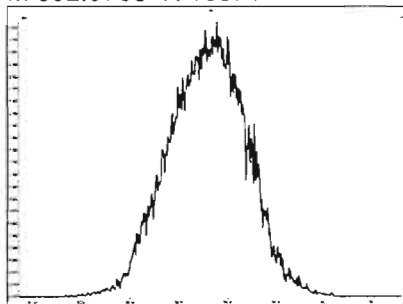
M 366.9792 R 10247



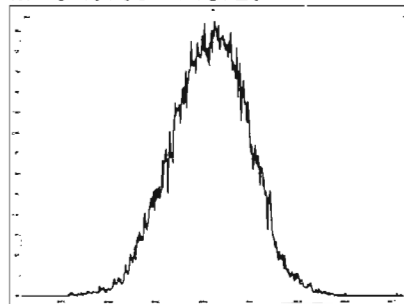
M 380.9760 R 10420



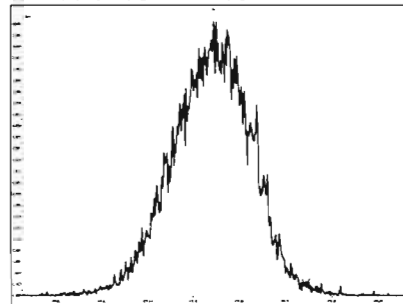
M 392.9760 R 10871



M 404.9760 R 10729



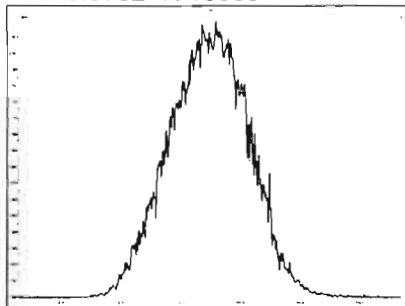
M 416.9760 R 10682



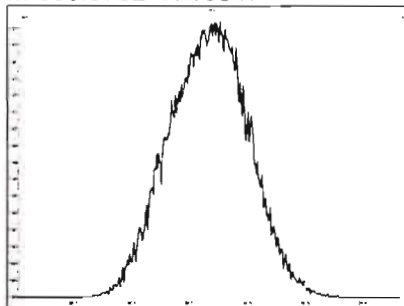
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Sunday, June 28, 2020 10:21:27 Pacific Daylight Time

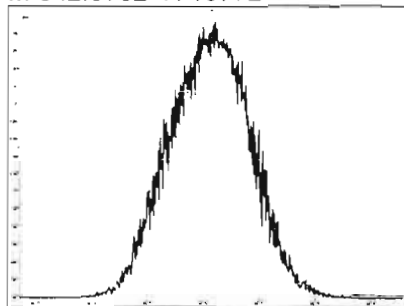
M 318.9792 R 10505



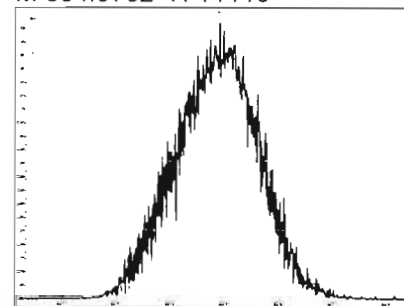
M 330.9792 R 10547



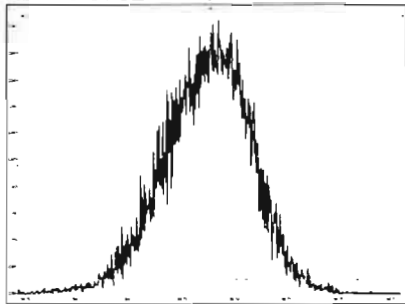
M 342.9792 R 10772



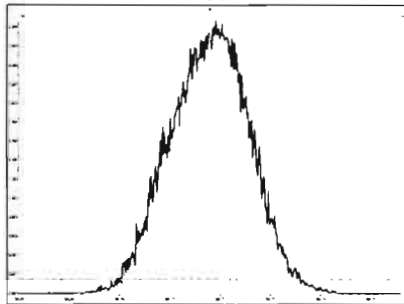
M 354.9792 R 11110



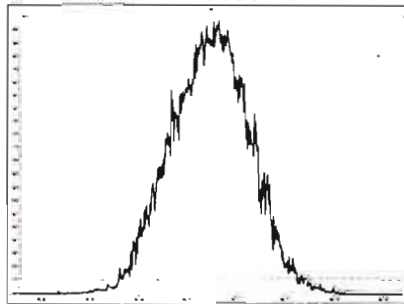
M 366.9792 R 10332



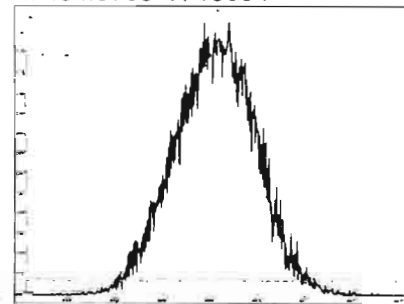
M 380.9760 R 10729



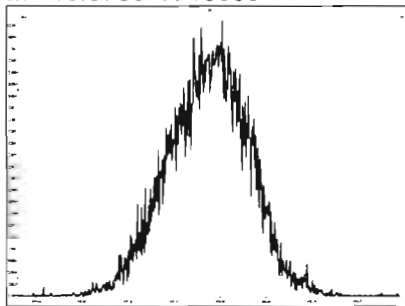
M 392.9760 R 10686



M 404.9760 R 10684



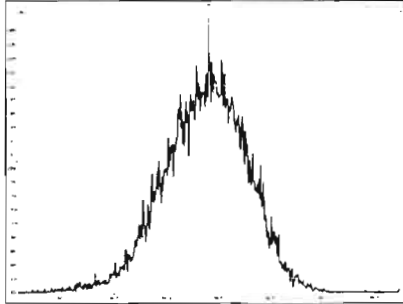
M 416.9760 R 10868



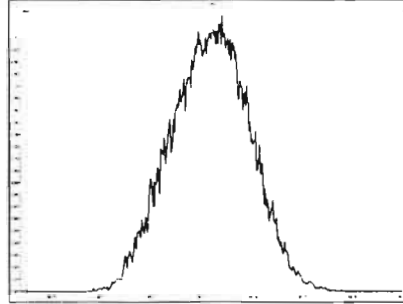
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Sunday, June 28, 2020 10:21:52 Pacific Daylight Time

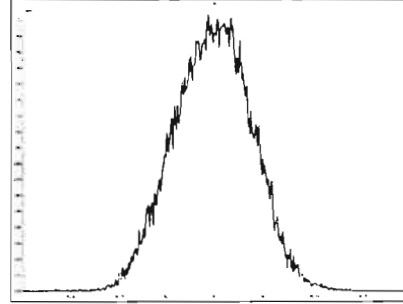
M 366.9792 R 10414



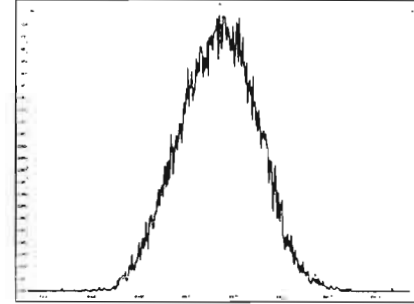
M 380.9760 R 10639



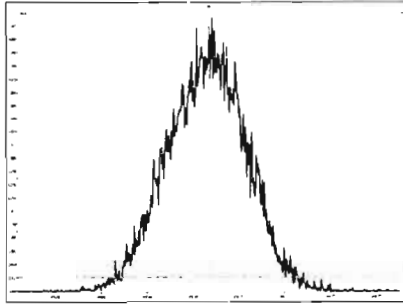
M 392.9760 R 10682



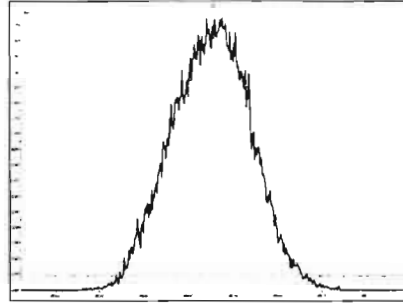
M 404.9760 R 10730



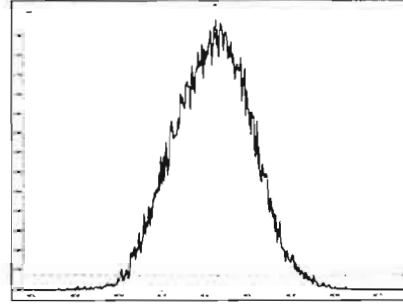
M 416.9760 R 11110



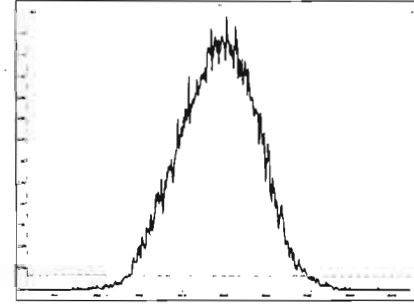
M 430.9728 R 10640



M 442.9728 R 10965



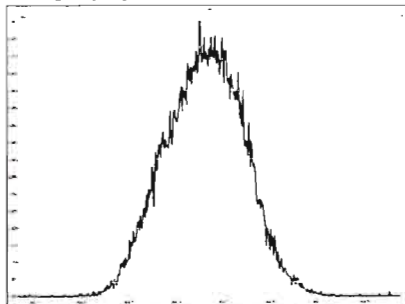
M 454.9728 R 10329



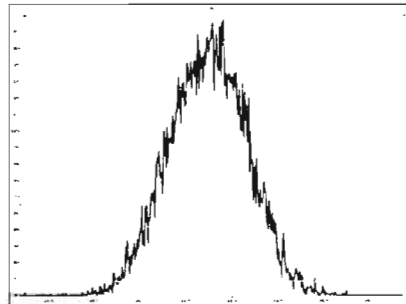
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Printed: Sunday, June 28, 2020 10:22:07 Pacific Daylight Time

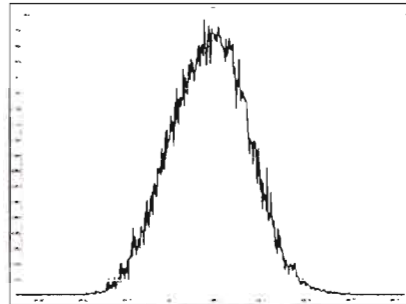
M 404.9760 R 10963



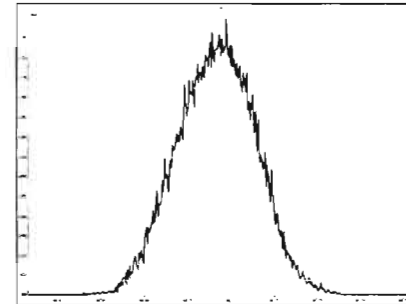
M 416.9760 R 10965



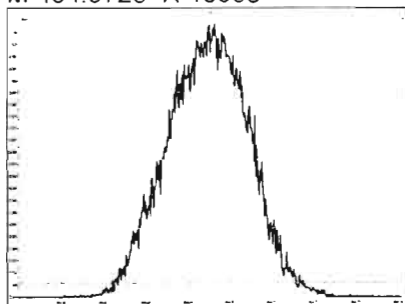
M 430.9728 R 10728



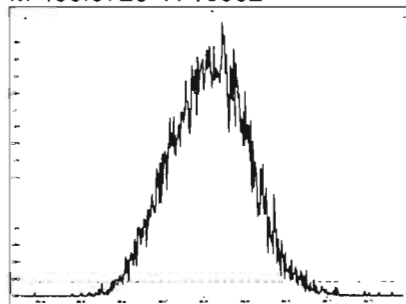
M 442.9728 R 10684



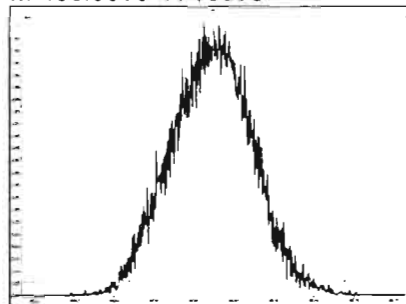
M 454.9728 R 10683



M 466.9728 R 10962



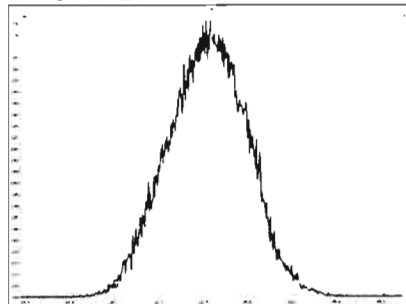
M 480.9696 R 10593



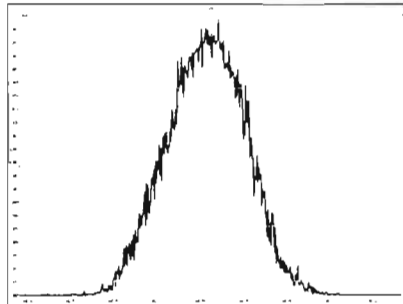
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Sunday, June 28, 2020 10:22:24 Pacific Daylight Time

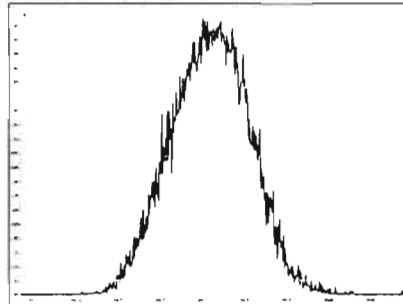
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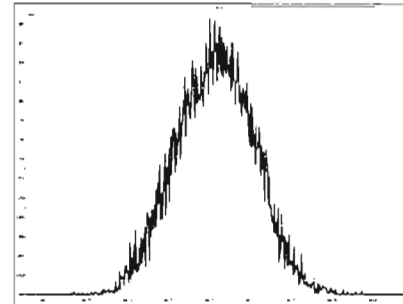
M 442.9728 R 10868



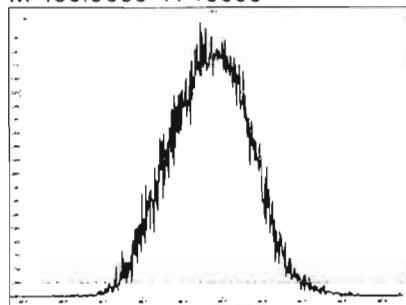
M 454.9728 R 11063



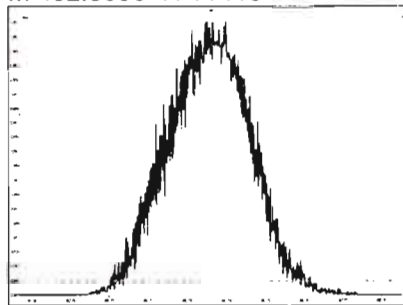
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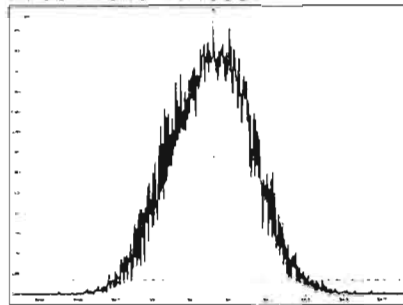
M 480.9696 R 10550



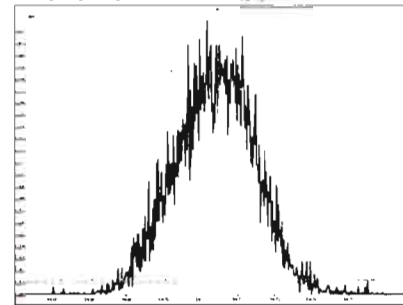
M 492.9696 R 11416



M 504.9696 R 10637



M 516.9697 R 11469



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, June 29, 2020 06:43:07 Pacific Daylight Time

Printed: Monday, June 29, 2020 06:43:28 Pacific Daylight Time

GRB 06/29/2020

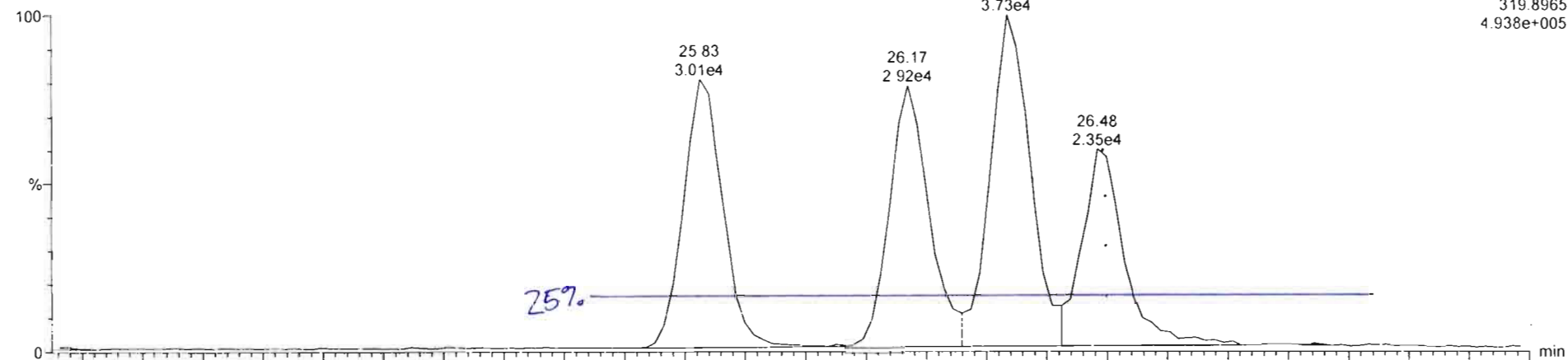
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

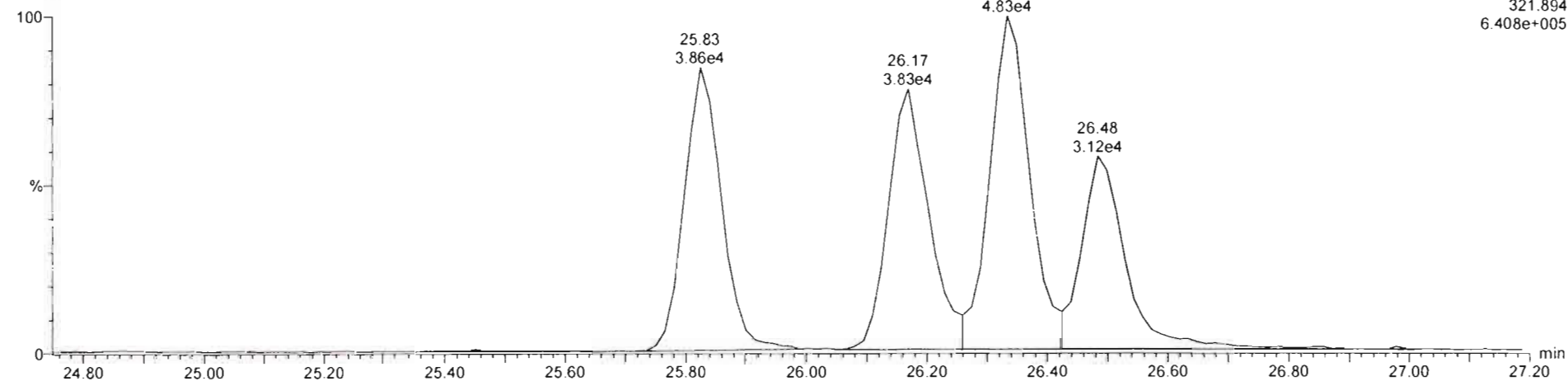
Name: 200628R1_1, Date: 28-Jun-2020, Time: 10:25:29, ID: ST200628R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200628R1_1



200628R1_1



Dataset: Untitled

Last Altered: Monday, June 29, 2020 06:43:54 Pacific Daylight Time

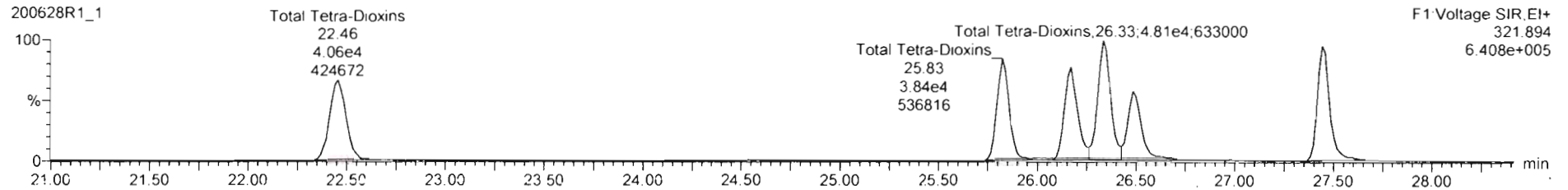
Printed: Monday, June 29, 2020 06:45:52 Pacific Daylight Time

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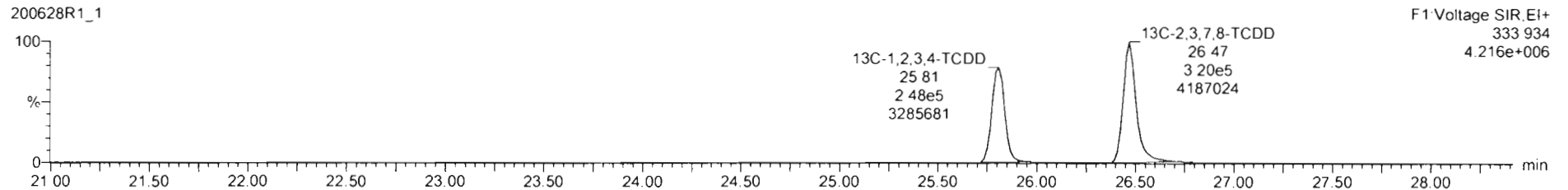
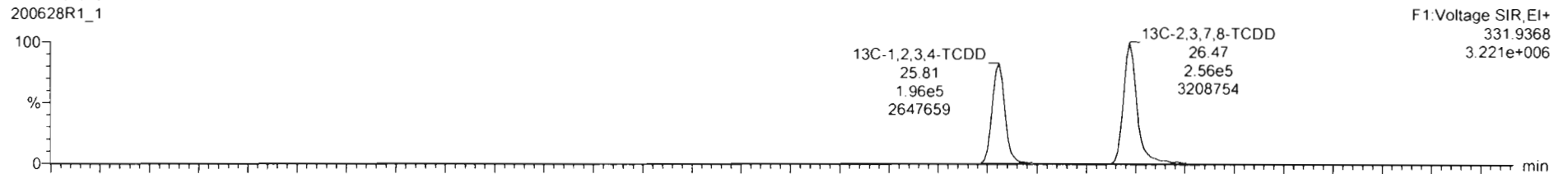
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200628R1_1, Date: 28-Jun-2020, Time: 10:25:29, ID: ST200628R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



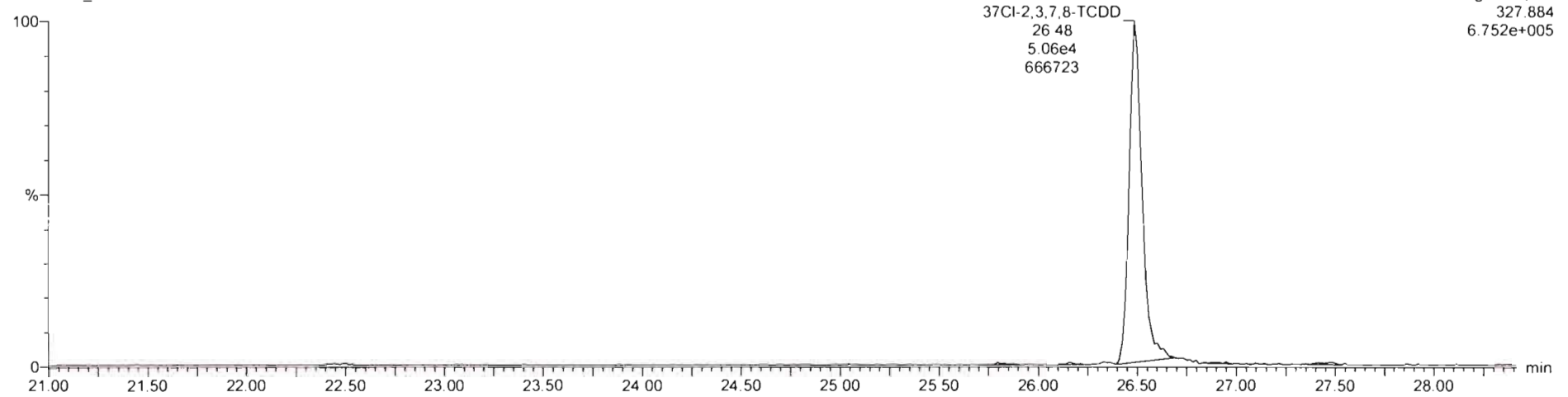
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Printed: Monday, June 29, 2020 06:45:52 Pacific Daylight Time

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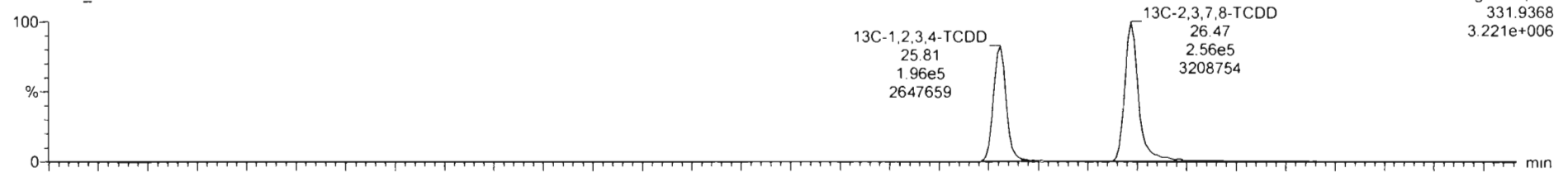
37Cl-2,3,7,8-TCDD

200628R1_1

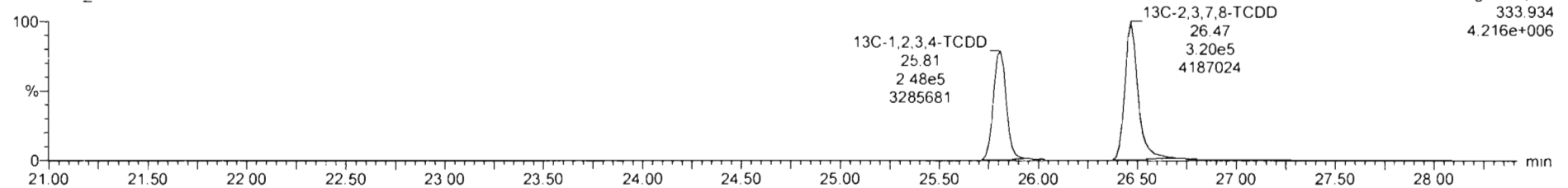


13C-1,2,3,4-TCDD

200628R1_1



200628R1_1



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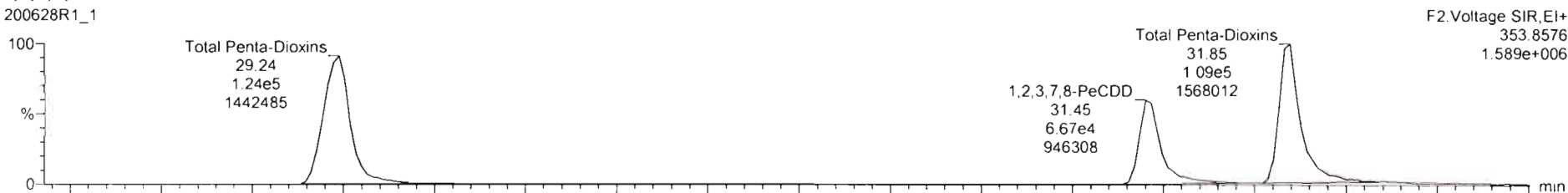
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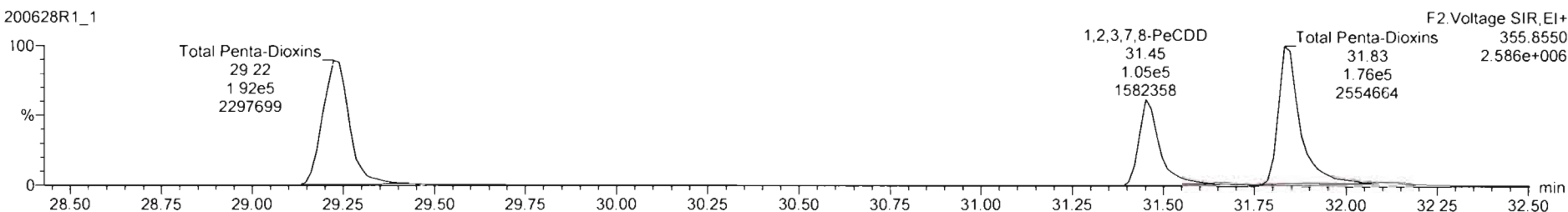
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1,2,3,7,8-PeCDD

200628R1_1

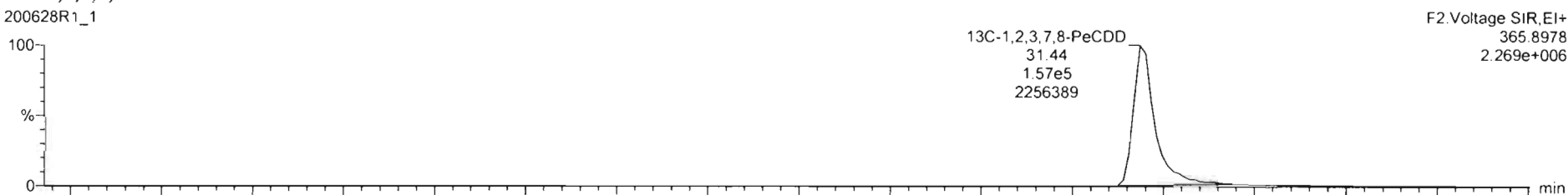


200628R1_1

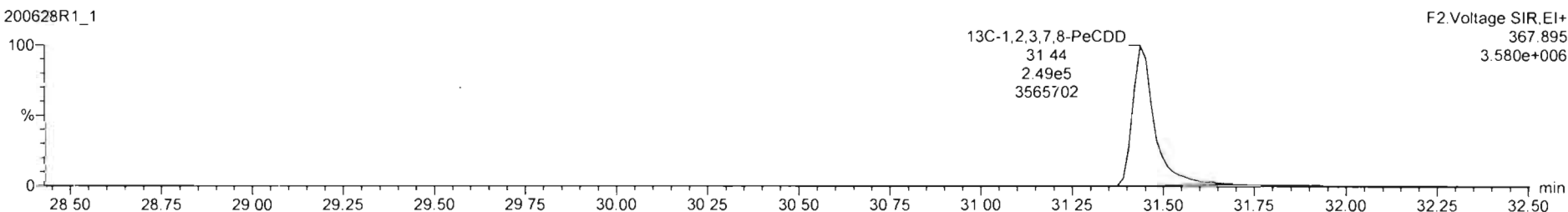


13C-1,2,3,7,8-PeCDD

200628R1_1



200628R1_1



Dataset: Untitled

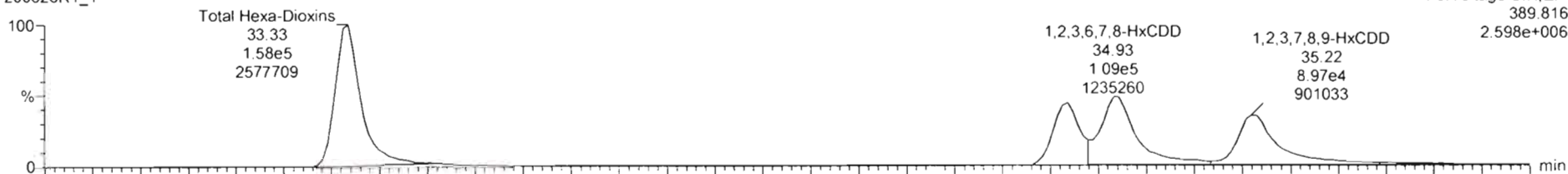
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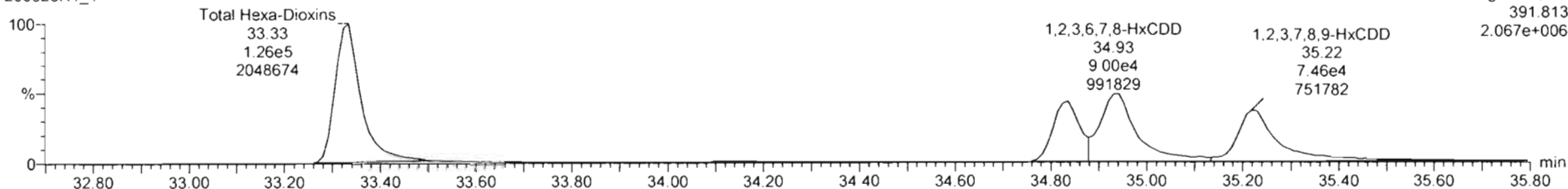
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1,2,3,4,7,8-HxCDD

200628R1_1

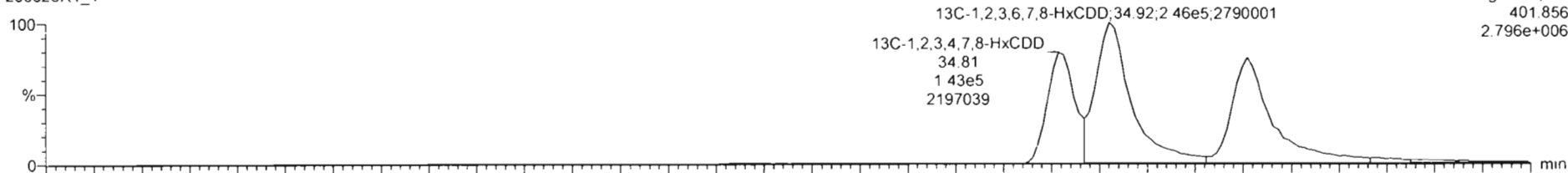


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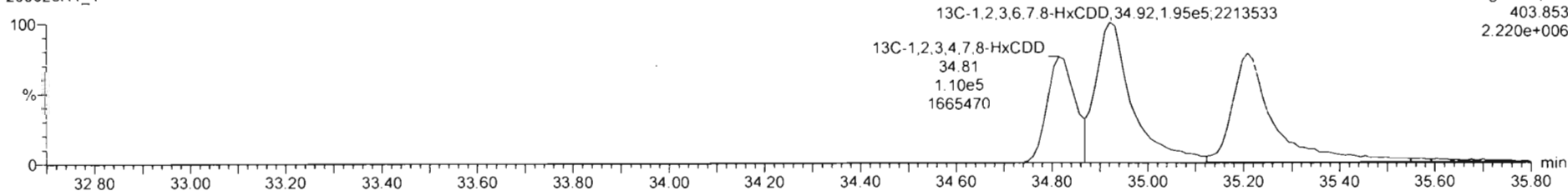


13C-1,2,3,4,7,8-HxCDD

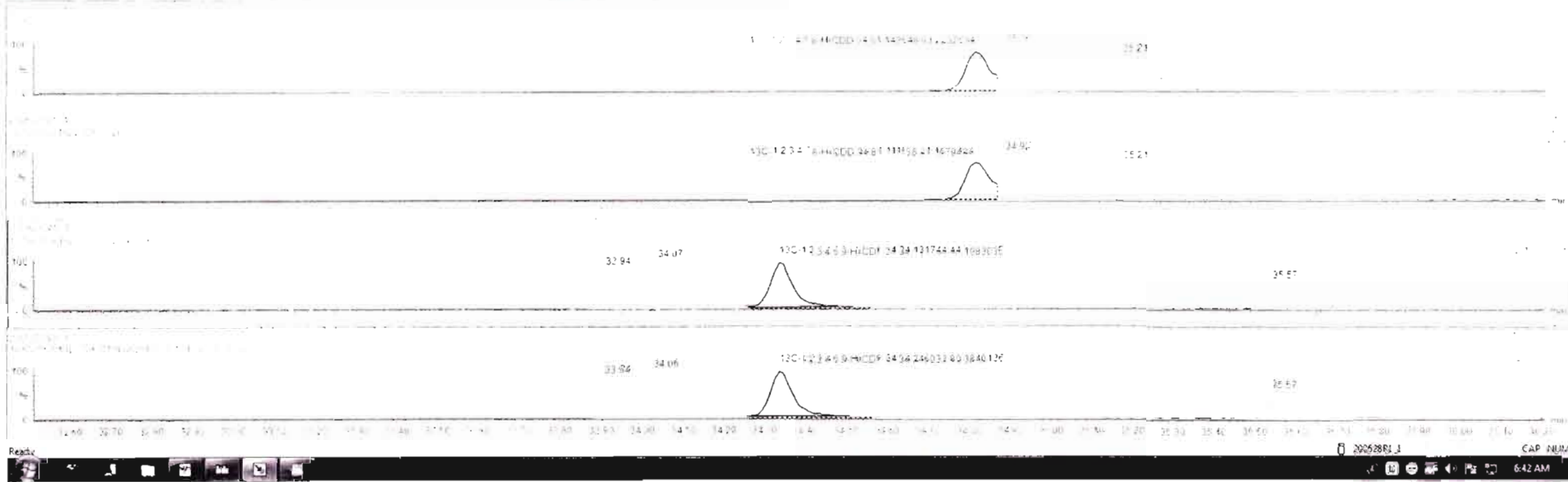
200628R1_1



200628R1_1

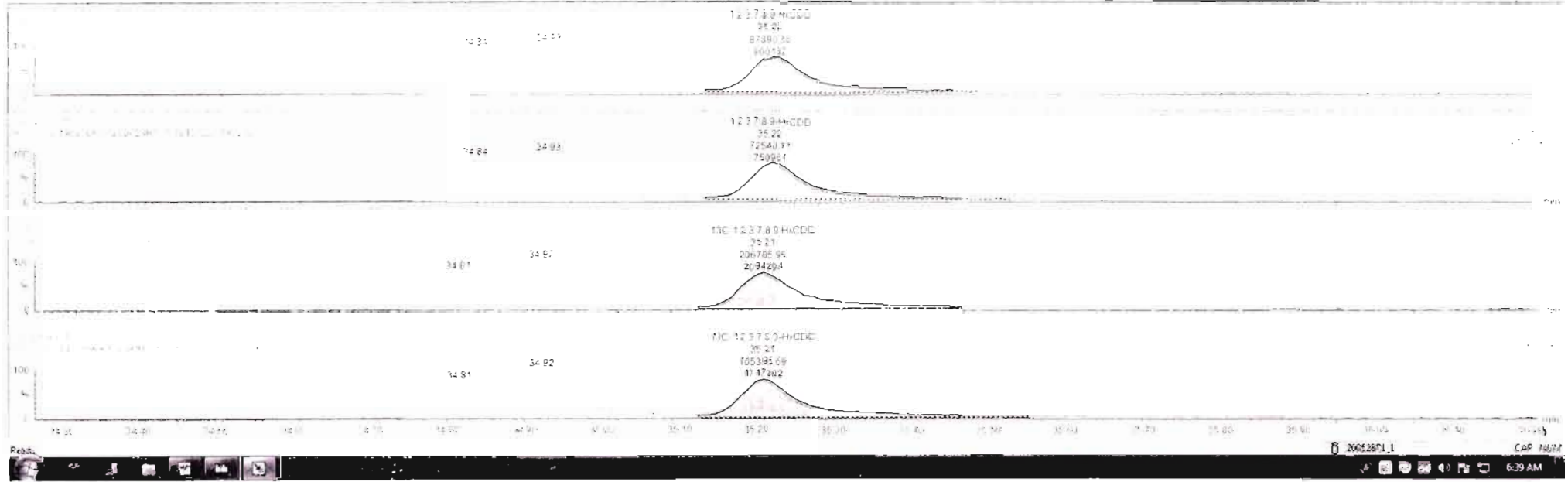


#	Name	Resp	S Resp	Pred RA	RA	NV	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD cut
18	13C-1237.8-TCDD	4.43e5	4.43e5	0.77	0.80	N0	1.1565	28.48	28.47	N0	1.026	1.026	112	110	N0
19	13C-1237.8-PeCDF	4.06e5	4.06e5	0.83	0.83	N0	0.9480	21.67	21.44	N0	1.027	1.015	102	102	N0
20	13C-1234.7.8-HxCDD	2.55e5	3.78e5	1.24	1.25	N0	0.7790	34.82	34.81	N0	1.014	1.014	88.5	86.5	N0
21	13C-1237.8-HxCDD	4.43e5	3.78e5	1.24	1.25	N0	1.0167	34.83	34.82	N0	1.017	1.017	110	110	N0
22	13C-1237.8-HxCDF	3.78e5	3.78e5	1.24	1.25	N0	0.9227	35.01	35.01	N0	1.024	1.025	109	110	N0
23	13C-1234.8.9-HxCDD	2.43e5	3.78e5	1.04	1.03	N0	0.8892	38.73	38.73	N0	1.121	1.125	109	109	N0
24	13C-1234.8.9-HxCDF	4.78e5	3.78e5	0.88	0.88	N0	1.0821	41.73	41.75	N0	1.216	1.213	159	157	N0
25	13C-1237.8-TCDF	4.06e5	4.26e5	0.77	0.73	N0	1.0280	25.87	25.87	N0	0.989	0.997	104	104	N0
26	13C-1237.8-PeCDF	6.24e5	6.24e5	1.03	1.03	N0	0.9380	22.08	22.15	N0	1.103	1.108	110	110	N0
27	13C-1234.7.8-PeCDF	3.87e5	6.24e5	1.55	1.52	N0	0.9168	21.01	21.15	N0	1.202	1.207	111	111	N0
28	13C-1234.7.8-HxCDF	3.87e5	3.78e5	0.91	0.90	N0	1.0275	33.98	33.94	N0	0.989	0.989	92.8	92.8	N0
29	13C-1237.8-HxCDF	4.20e5	3.78e5	0.91	0.91	N0	1.1872	34.07	34.07	N0	0.952	0.952	110	110	N0
30	13C-1234.8.9-HxCDF	4.43e5	3.78e5	0.91	0.91	N0	1.0215	34.81	34.81	N0	1.023	1.023	111	111	N0
31	13C-1237.8-HxCDF	3.78e5	3.78e5	0.91	0.91	N0	0.9585	35.95	35.97	N0	1.025	1.026	109	109	N0
32	13C-1234.8.9-HxCDF	3.78e5	3.78e5	0.44	0.47	N0	0.7745	37.32	37.34	N0	1.086	1.087	100	100	N0
33	13C-1234.7.8-HxCDF	1.90e5	3.78e5	0.44	0.42	N0	0.9210	29.32	29.30	N0	1.148	1.148	101	101	N0
34	13C-1234.8.9-HxCDF	6.81e5	3.78e5	0.88	0.88	N0	0.7447	41.92	41.94	N0	1.221	1.221	186	179	N0
35	13C-1237.8-TCDD	1.00e4	4.47e5				1.0368	28.82	28.48	N0	1.023	1.020	110	110	N0
36	13C-1234.7-TCDD	4.43e5	4.43e5	0.77	0.78	N0	1.0280	28.85	28.81	N0	1.000	1.000	100	100	N0
37	13C-1234.7-CDF	6.26e5	6.26e5	0.77	0.78	N0	1.0280	24.38	24.10	N0	1.000	1.000	100	100	N0
38	13C-1234.8.9-HxCDF	3.78e5	3.78e5	0.91	0.94	N0	1.0280	34.42	34.74	N0	1.000	1.000	100	100	ES



200628R1_1 - ST200628R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	Q Resp	Std RA	RA	dy	RRF	Dec RT	RT	RT Flag	Pre RRT	RRT	Conc	% Rec	STD cut
1	12378-H-CDD	4.44e5	3.78e5	0.77	0.75	NO	0.8883	28.40	28.48	NO	1.001	1.001	17.8	108	NO
2	12378-H-CDD	1.71e5	1.06e5	0.63	0.64	NO	0.8081	31.46	31.46	NO	1.001	1.000	48.8	93.1	NO
3	123478-H-CDD	1.27e5	2.55e5	1.24	1.25	NO	1.0034	34.80	34.84	NO	1.000	1.001	40.4	95.8	NO
4	12378-H-CDD	1.99e5	4.42e5	1.24	1.23	NO	0.9523	34.92	34.93	NO	1.000	1.000	53.1	100	NO
5	12378-H-CDD	1.66e5	3.72e5	1.24	1.21	NO	0.8869	35.22	35.22	NO	1.000	1.000	48.8	97.2	NO
6	1234878-H-CDD	1.07e5	1.43e5	1.24	1.0	NO	0.8839	35.77	35.77	NO	1.000	1.000	51.1	100	NO
7	CDD	2.00e5	4.77e5	0.23	0.53	NO	1.9128	41.75	41.77	NO	1.000	1.001	101	100	NO
8	12378-H-CDF	1.26e4	1.52e5	0.01	0.70	NO	0.7511	23.62	23.58	NO	1.001	1.001	10.1	100	NO
9	12378-H-CDF	2.85e5	6.24e5	1.55	1.55	NO	0.9625	32.17	32.17	NO	1.001	1.001	47.8	95.1	NO
10	123478-H-CDF	2.43e5	5.87e5	1.55	1.5	NO	0.9143	31.18	31.10	NO	1.001	1.000	49.8	98.2	NO
11	123478-H-CDF	1.57e5	3.52e5	1.24	1.23	NO	0.8845	31.84	32.96	NO	1.000	1.003	50.3	101	NO
12	123678-H-CDF	2.49e5	6.20e5	1.24	1.29	NO	0.8982	34.28	34.28	NO	1.000	1.000	51.8	104	NO
13	1234878-H-CDF	1.59e5	4.28e5	1.24	1.21	NO	0.9341	34.88	34.87	NO	1.001	1.000	46.2	92.8	NO
14	12378-H-CDF	1.18e5	3.05e5	1.24	1.0	NO	0.8707	35.87	35.86	NO	1.000	1.000	40.0	98.0	NO
15	1234878-H-CDF	1.44e5	3.19e5	1.04	1.02	NO	0.8734	37.08	37.36	NO	1.001	1.001	62.0	105	NO
16	1234788-H-CDF	1.06e5	2.04e5	1.04	1.04	NO	1.0181	38.30	38.32	NO	1.000	1.001	52.6	103	NO
17	CDF	2.33e5	6.61e5	0.39	0.86	NO	0.8065	41.84	41.85	NO	1.000	1.000	103	100	NO
18	130-12378-H-CDD	5.76e5	4.41e5	0.77	0.60	NO	1.1883	28.46	28.47	NO	1.008	1.008	112	112	NO
19	130-12378-H-CDD	4.09e5	4.43e5	0.63	0.63	NO	0.9450	31.87	31.44	NO	1.227	1.218	108	100	NO
20	130-123478-H-CDD	2.55e5	3.79e5	1.24	1.26	NO	0.7780	34.82	34.81	NO	1.014	1.014	98.8	98.8	NO
21	130-123678-H-CDD	4.42e5	3.71e5	1.24	1.05	NO	1.0187	34.83	34.82	NO	1.017	1.017	115	115	NO



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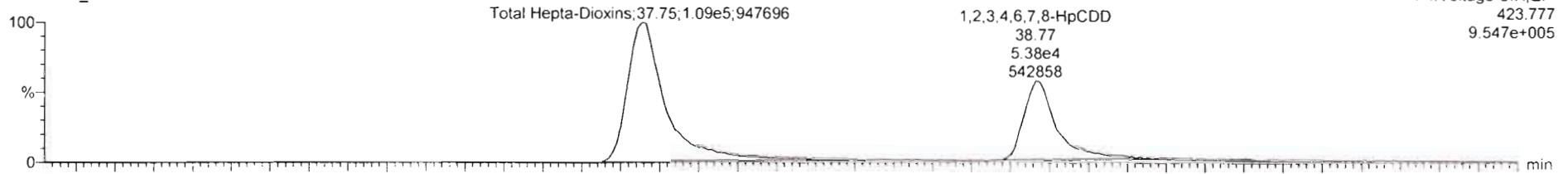
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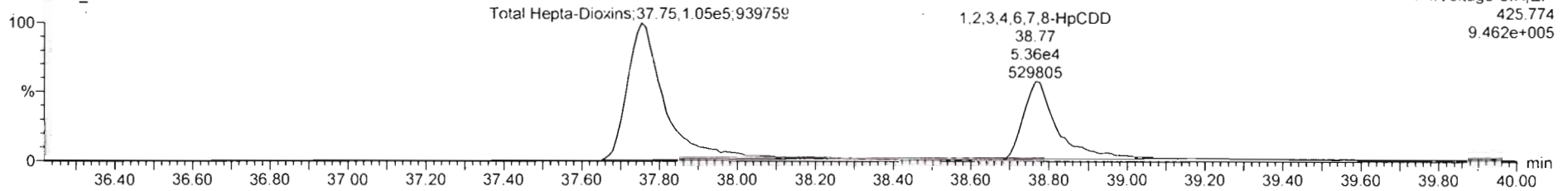
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200628R1_1

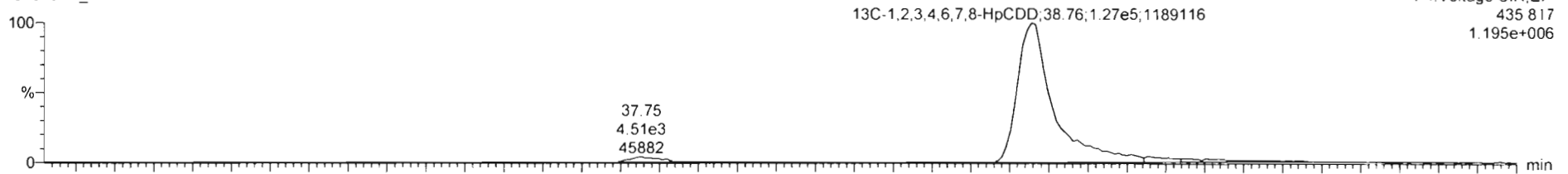


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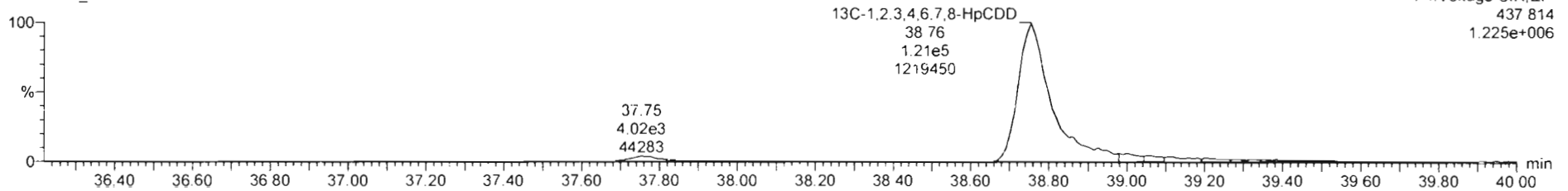


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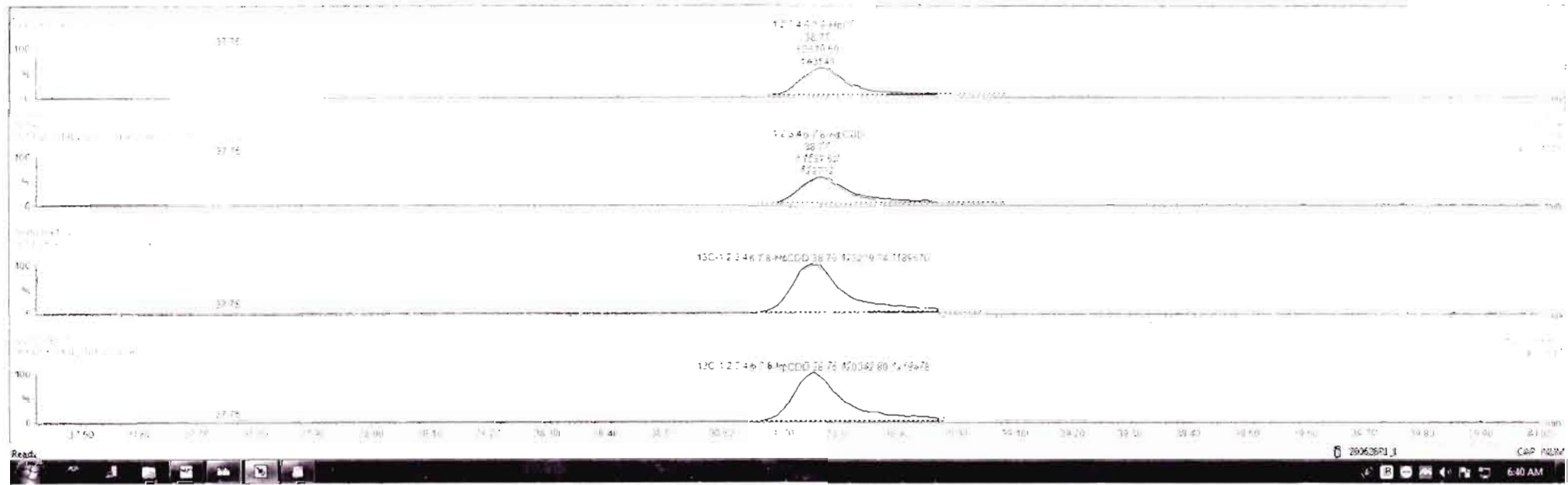


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200628R1_1 - ST200628R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	#	Name	Resp	C Resp	Prec RA	RA	ny	RRF	Prec RT	RT	RT Flag	Prec RRT	RRT	Comp	%Rec	STD out
1	1	1.2.3.7.8-TCDD	1.4444	1.7147	0.77	0.74	NO	0.8003	26.42	26.47	NO	1.001	1.001	12.9	100	NO
2	2	1.2.3.7.8-PeCDD	7.147	4.2645	0.83	0.84	NO	0.9081	31.46	31.45	NO	1.001	1.000	46.6	101	NO
3	3	1.2.3.4.7.8-HxCDD	1.2747	2.5545	1.24	1.25	NO	1.0004	34.82	34.84	NO	1.000	1.000	41.4	100	NO
4	4	1.2.3.6.7.8-HxCDD	1.5647	4.4247	1.24	1.23	NO	0.8523	34.82	34.83	NO	1.000	1.000	51.9	101	NO
5	5	1.2.3.7.8-HxCDF	1.8047	3.7247	1.24	1.24	NO	0.8985	35.02	35.02	NO	1.000	1.000	43.8	100	NO
6	6	1.2.3.4.6.7.8-HpCDD	1.0445	2.4345	1.04	1.02	NO	0.8935	38.77	38.77	NO	1.000	1.000	49.8	99.2	NO
7	7	TCDF	2.2247	4.7747	1.33	1.31	NO	1.1400	41.75	41.77	NO	1.000	1.001	15.1	101	NO
8	8	2.3.7.8-TCDF	1.2147	3.6247	0.77	0.73	NO	0.7510	21.92	21.99	NO	1.001	1.000	10.2	100	NO
9	9	1.2.3.7.8-PeCDF	2.8147	3.2447	1.55	1.55	NO	0.9225	33.17	33.17	NO	1.001	1.000	47.3	100	NO
10	10	2.3.4.7.8-PeCDF	2.6147	3.6747	1.55	1.58	NO	0.9340	31.18	31.18	NO	1.001	1.000	49.6	99.2	NO
11	11	1.2.3.4.7.8-HxCDF	1.5147	3.5247	1.24	1.22	NO	0.8848	33.94	33.96	NO	1.000	1.001	50.3	101	NO
12	12	1.2.3.6.7.8-HxCDF	2.4047	5.0047	1.24	1.28	NO	0.8582	34.08	34.26	NO	1.000	1.000	51.9	104	NO
13	13	2.3.4.6.7.8-HxCDF	1.5647	4.4347	1.24	1.21	NO	0.8341	34.84	34.87	NO	1.001	1.000	48.3	100	NO
14	14	1.2.3.7.8-HxCDF	1.1047	3.0747	1.24	1.22	NO	0.9107	35.57	35.58	NO	1.000	1.000	48.0	99.0	NO
15	15	1.2.3.4.7.8-HpCDF	1.0447	1.7147	1.04	1.02	NO	0.8734	37.35	37.36	NO	1.001	1.001	50.3	100	NO
16	16	1.2.3.4.7.8-HpCDF	1.0047	2.0447	1.04	1.04	NO	1.0125	39.30	39.32	NO	1.000	1.001	52.8	100	NO
17	17	TCDF	2.1147	6.6147	0.89	0.90	NO	0.8085	41.94	41.95	NO	1.000	1.000	103	103	NO
18	18	TCDF	1.7147	4.4347	0.77	0.80	NO	1.1560	26.45	26.47	NO	1.008	1.008	112	110	NO
19	19	13C-1.2.3.7.8-PeCDD	4.0147	4.4347	0.83	0.82	NO	0.8480	21.87	21.44	NO	1.227	1.218	108	102	NO
20	20	13C-1.2.3.4.7.8-HxCDD	3.4147	3.7547	1.04	1.06	NO	0.7780	34.82	34.81	NO	1.014	1.014	36.8	36.8	NO
21	21	13C-1.2.3.6.7.8-HxCDD	4.4247	3.7547	1.24	1.26	NO	1.0167	34.87	34.82	NO	1.017	1.017	115	118	NO

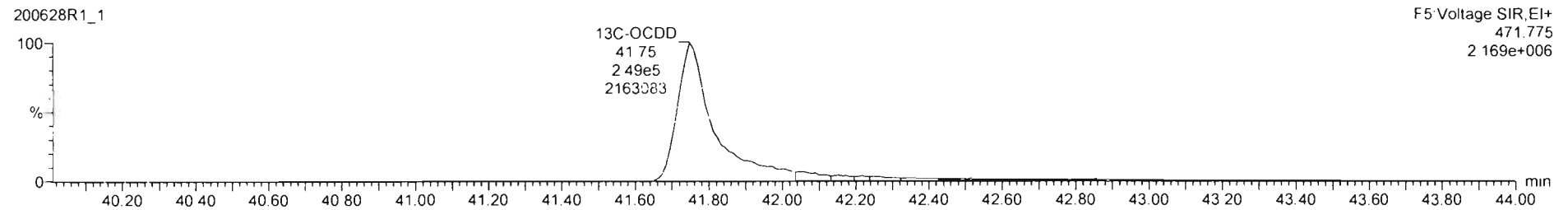
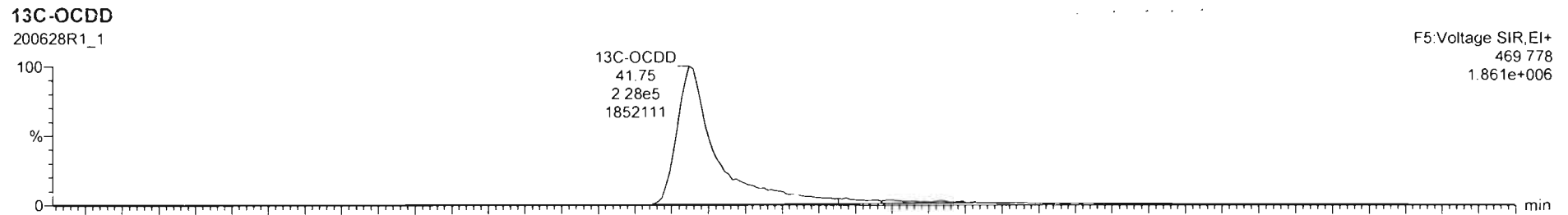
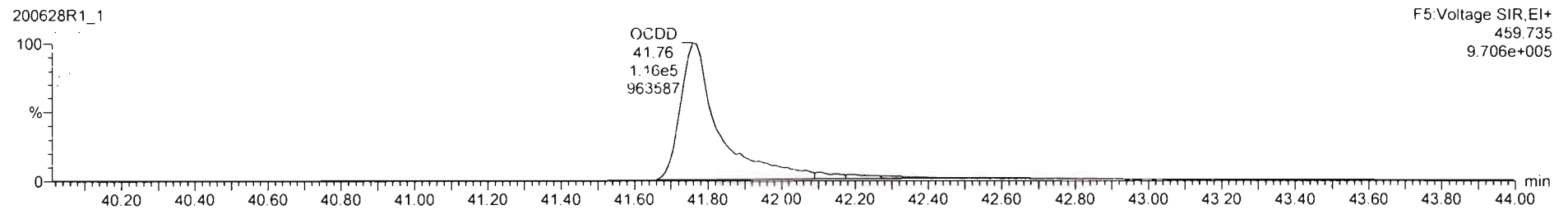
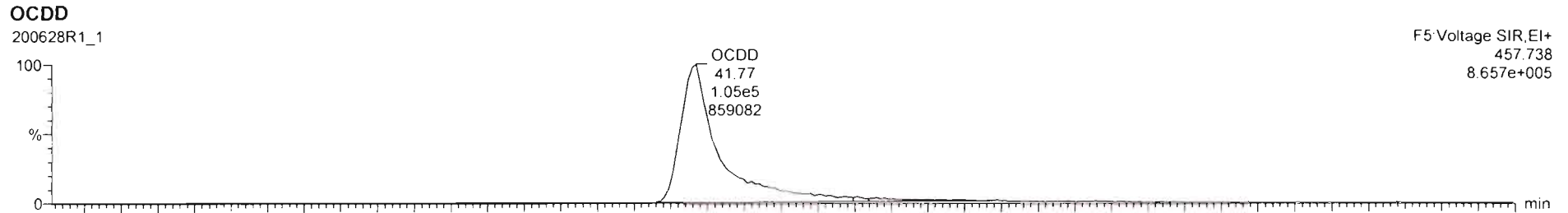


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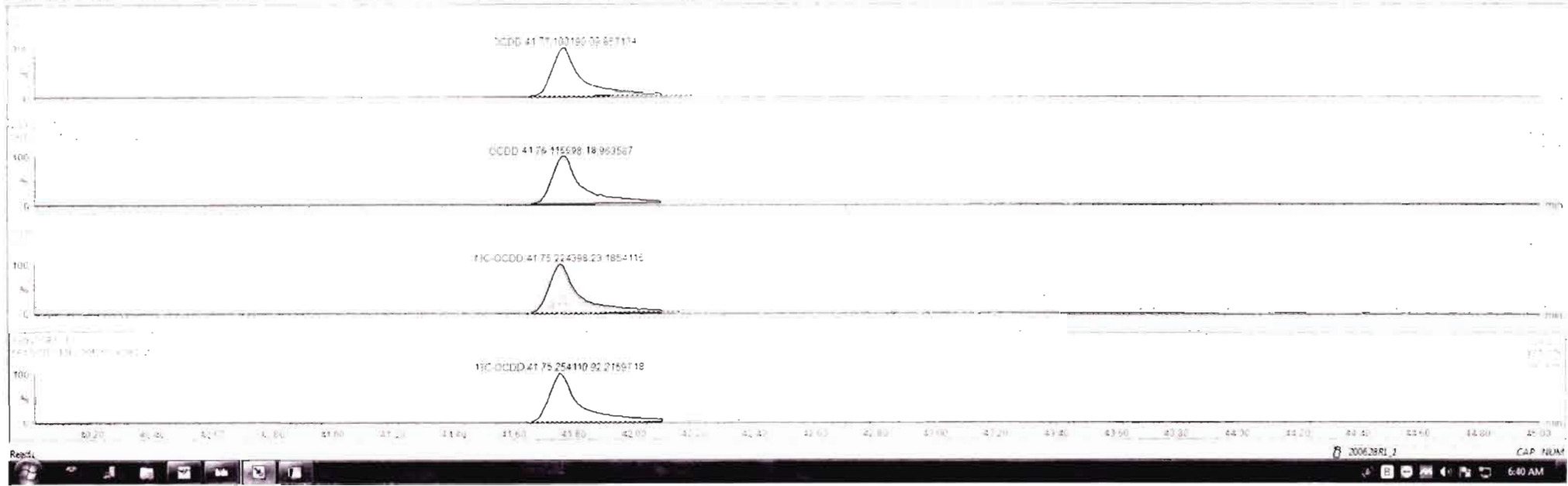
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200628R1_1 - ST200628R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1 2 3 7 6-OCDD	3.44e5	1.76e7	0.77	0.74	NO	0.0001	26.50	26.48	NO	1.001	1.001	10.0	97.1
2	1 2 3 7 8-OCDD	1.71e5	4.06e5	0.67	0.84	NO	0.0001	31.46	31.45	NO	1.001	1.001	46.0	67.1
3	1 2 3 4 7 8-HxOCDD	7.27e5	2.55e5	1.24	1.29	NO	1.0004	34.42	34.34	NO	1.001	1.001	48.0	96.0
4	4 1 2 3 6 7 8-HxOCDD	1.95e5	4.42e5	1.24	1.23	NO	0.0020	34.82	34.83	NO	1.001	1.001	50.0	70.0
5	1 2 3 7 8-HxOCDD	1.06e5	3.72e5	1.24	1.23	NO	0.0063	35.21	35.22	NO	1.001	1.001	48.0	17.0
6	1 1 3 3 4 6 7 8-HxOCDD	1.04e5	2.47e5	1.24	1.21	NO	0.0079	36.27	36.27	NO	1.001	1.001	45.0	95.0
7	7-OCDD	2.16e5	4.79e5	0.80	0.87	NO	0.0136	41.75	41.77	NO	1.001	1.001	98.0	98.7
8	2 3 7 8-OCDD	3.09e4	6.92e5	0.77	0.79	NO	0.0101	21.50	21.50	NO	1.001	1.001	10.0	11.0
9	1 2 3 7 8-HxOCDF	2.85e5	6.24e5	1.03	1.05	NO	0.0020	32.17	32.17	NO	1.001	1.001	48.0	95.1
10	1 2 3 4 7 8-OCDF	2.63e5	6.87e5	1.05	1.08	NO	0.0040	31.18	31.18	NO	1.001	1.001	49.0	95.0
11	1 2 3 4 7 8-HxOCDF	1.81e5	3.52e5	1.24	1.23	NO	0.0046	33.84	33.86	NO	1.001	1.001	50.0	70.0
12	1 2 3 6 7 8-HxOCDF	2.40e5	6.00e5	1.24	1.26	NO	0.0092	34.08	34.20	NO	1.001	1.001	51.0	74.0
13	1 2 3 4 6 7 8-HxOCDF	1.66e5	4.29e5	1.24	1.23	NO	0.0041	34.65	34.67	NO	1.001	1.001	48.0	92.0
14	1 2 3 7 8-HxOCDF	1.38e5	3.70e5	1.24	1.22	NO	0.0107	36.67	36.66	NO	1.001	1.001	48.0	96.0
15	1 1 2 3 4 6 7 8-HxOCDF	1.44e5	3.79e5	1.24	1.22	NO	0.0104	37.30	37.30	NO	1.001	1.001	42.0	72.0
16	1 1 2 3 4 7 8 9-HxOCDF	1.03e5	2.74e5	1.24	1.24	NO	0.0120	39.20	39.32	NO	1.001	1.001	52.0	100.0
17	OCDF	2.31e5	6.43e5	0.95	0.86	NO	0.0065	41.94	41.95	NO	1.001	1.001	100.0	100.0
18	10C-1 2 3 7 8-OCDD	5.75e5	4.42e5	0.77	0.80	NO	1.0067	28.46	28.47	NO	1.026	1.026	110.0	110.0
19	10C-1 2 3 7 8-ReOCDD	4.06e5	4.42e5	0.63	0.62	NO	0.0490	31.67	31.44	NO	1.227	1.218	100.0	100.0
20	10C-1 2 3 4 7 8-HxOCDD	2.54e5	3.79e5	1.24	1.26	NO	0.0750	34.82	34.81	NO	1.014	1.014	88.0	88.0
21	10C-1 2 3 6 7 8-HxOCDD	4.42e5	3.79e5	1.24	1.26	NO	0.0167	34.83	34.82	NO	1.017	1.017	110.0	110.0



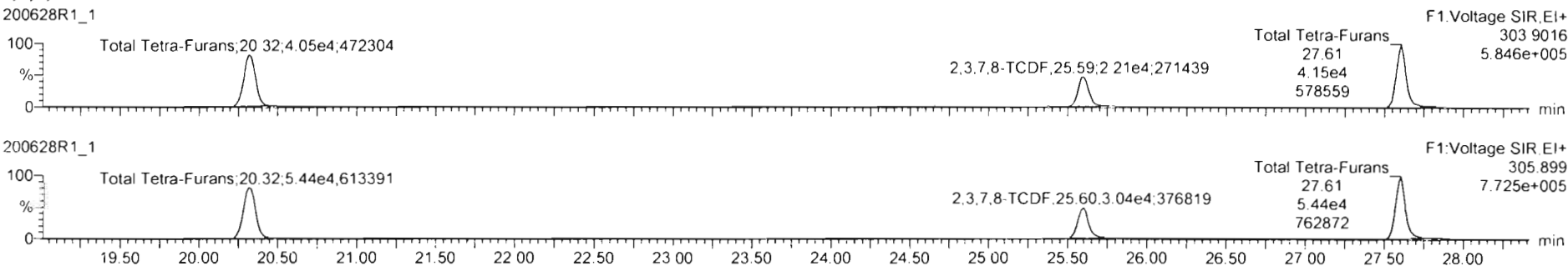
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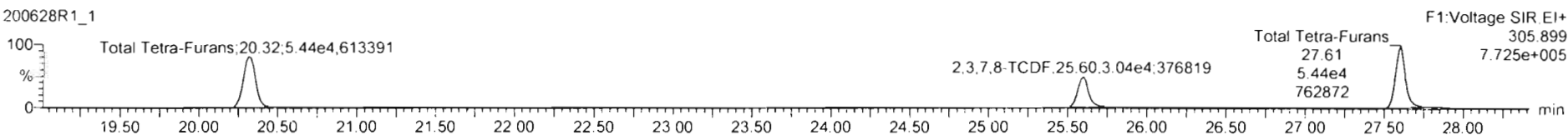
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2,3,7,8-TCDF

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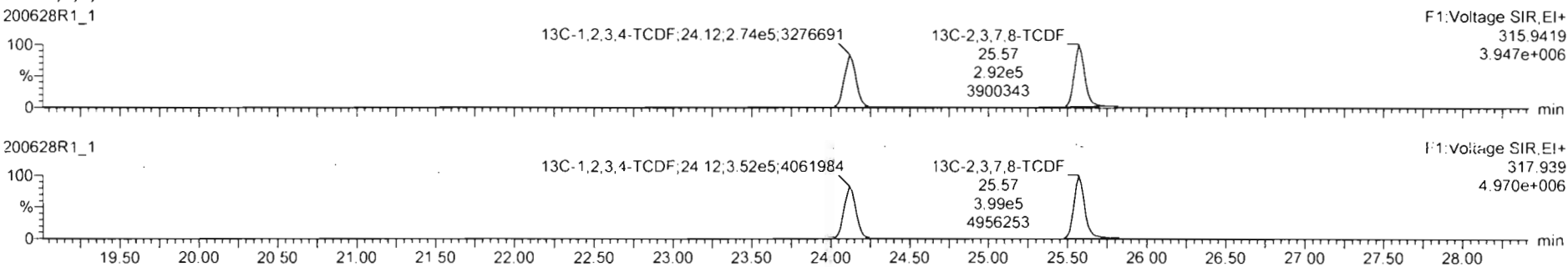


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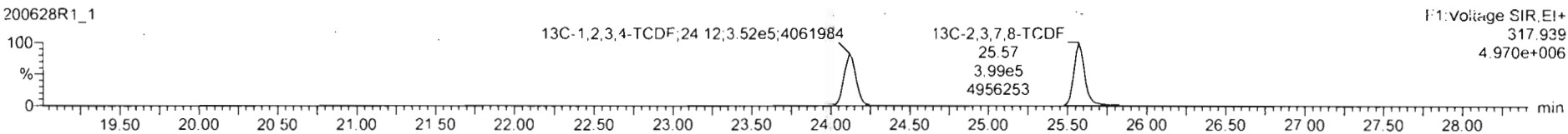


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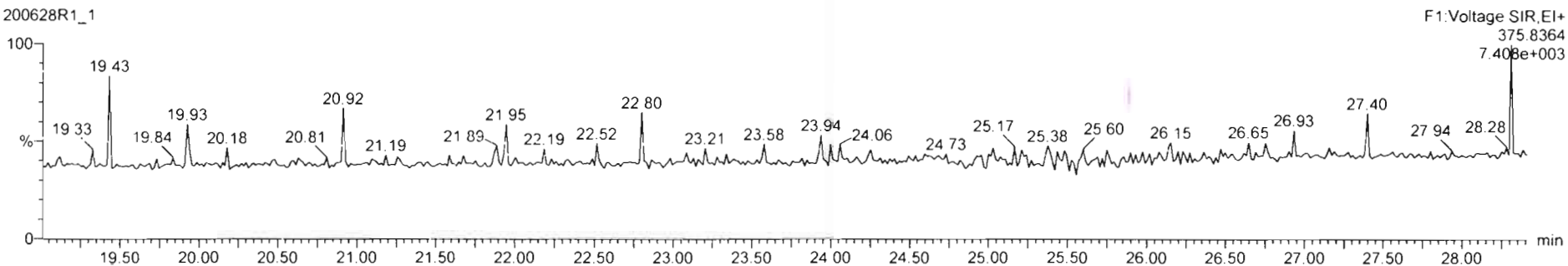


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DPE1

200628R1_1



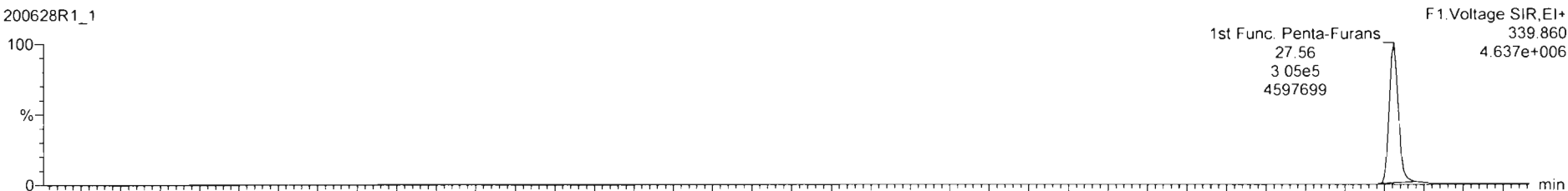
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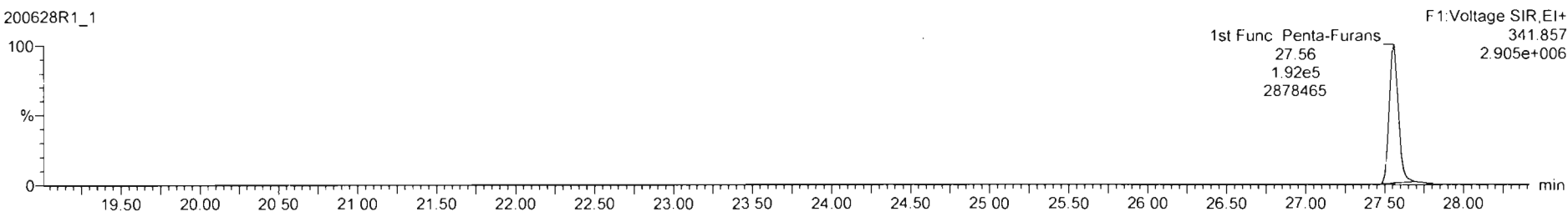
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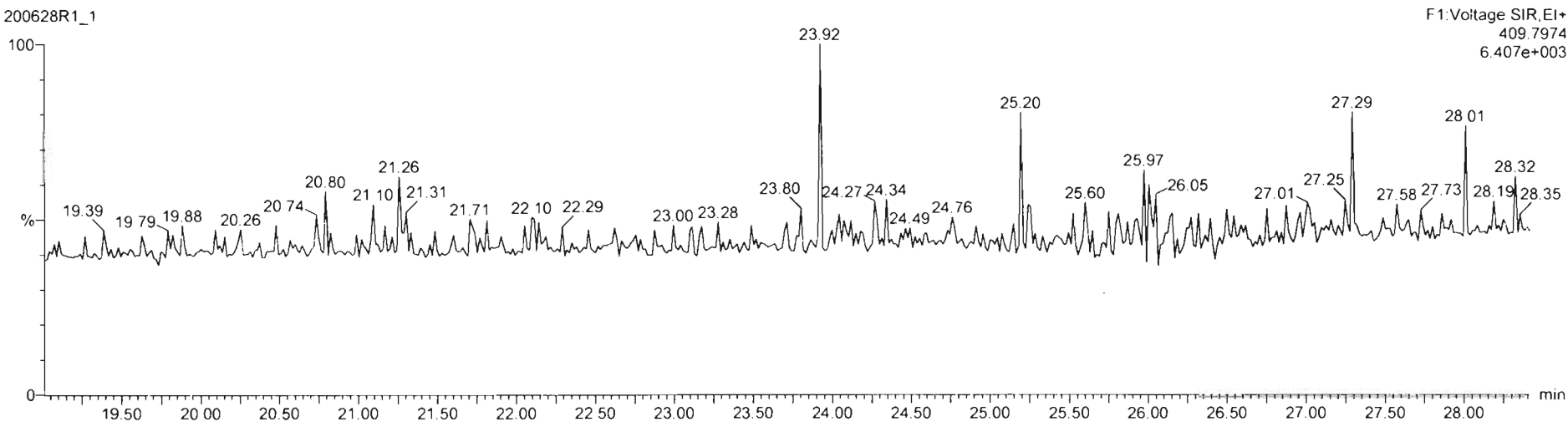


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DPE6

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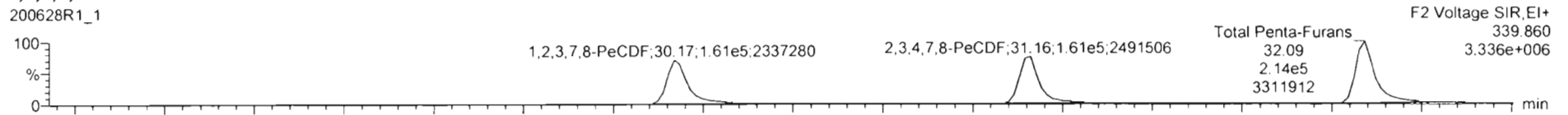
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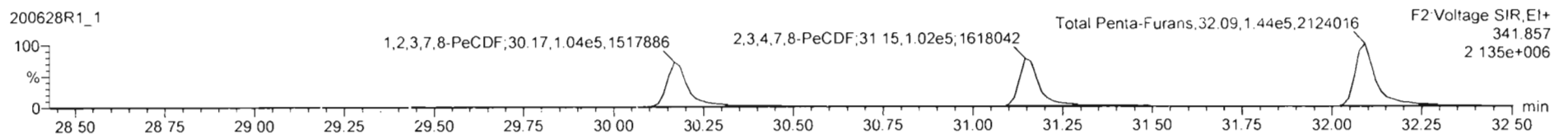
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1,2,3,7,8-PeCDF

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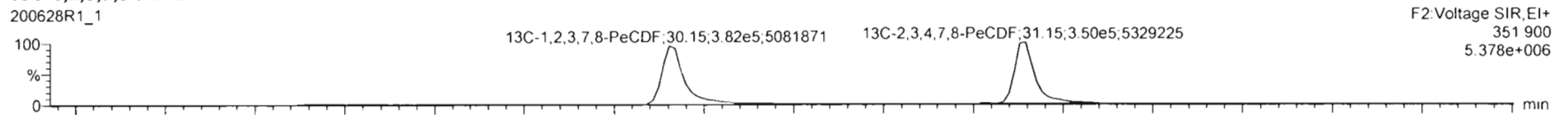


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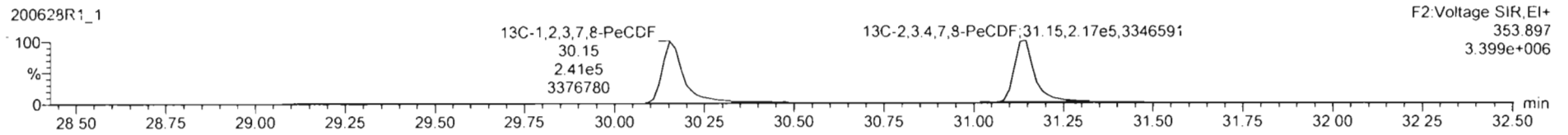


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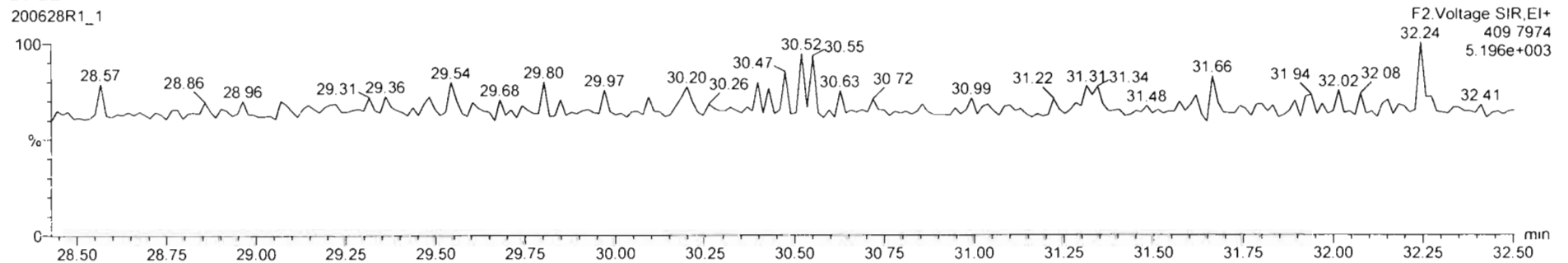


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DPE2

200628R1_1

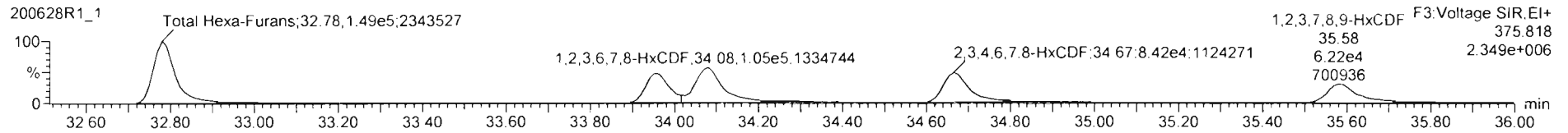
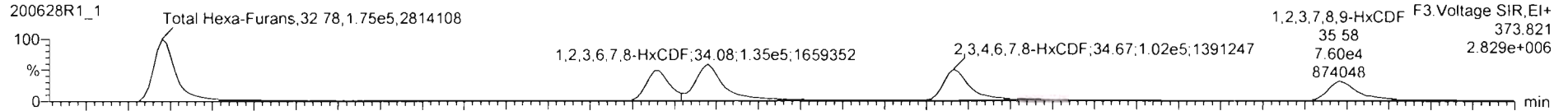


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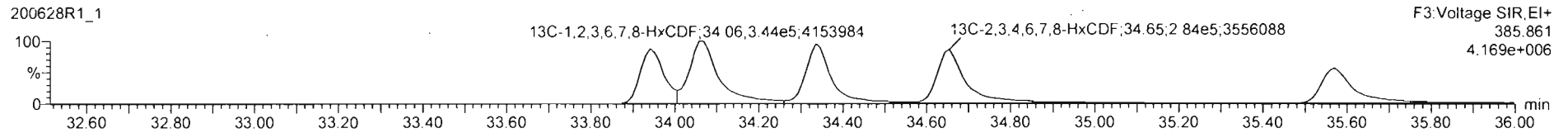
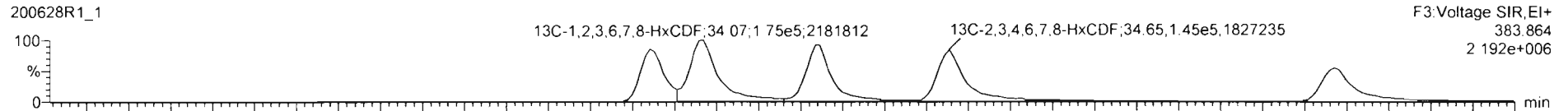
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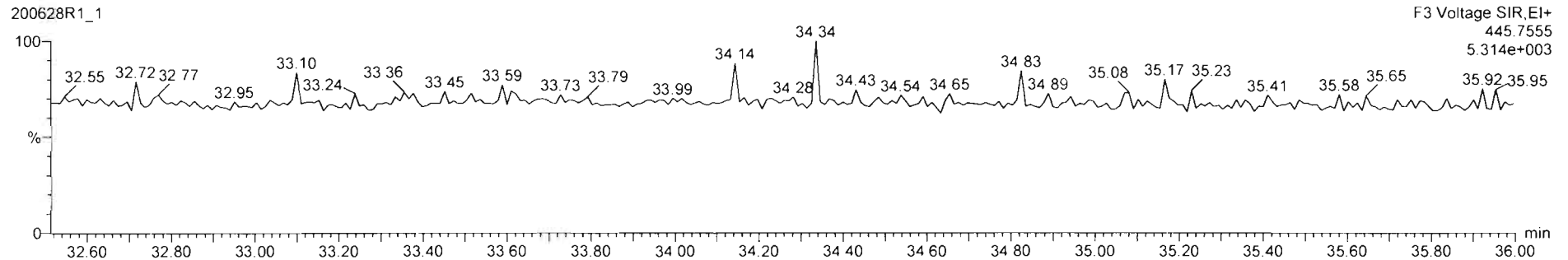
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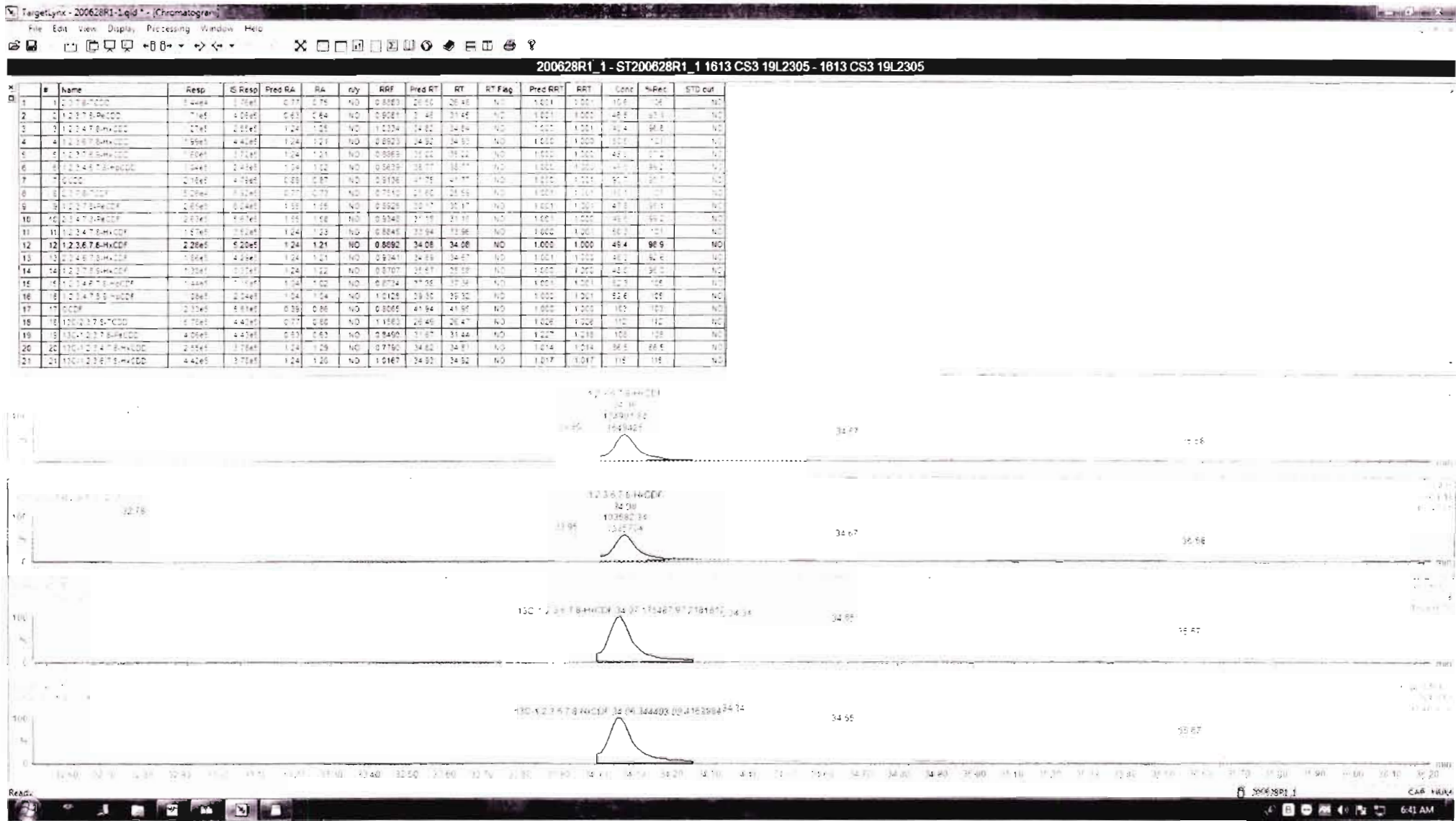


13C-1,2,3,4,7,8-HxCDF

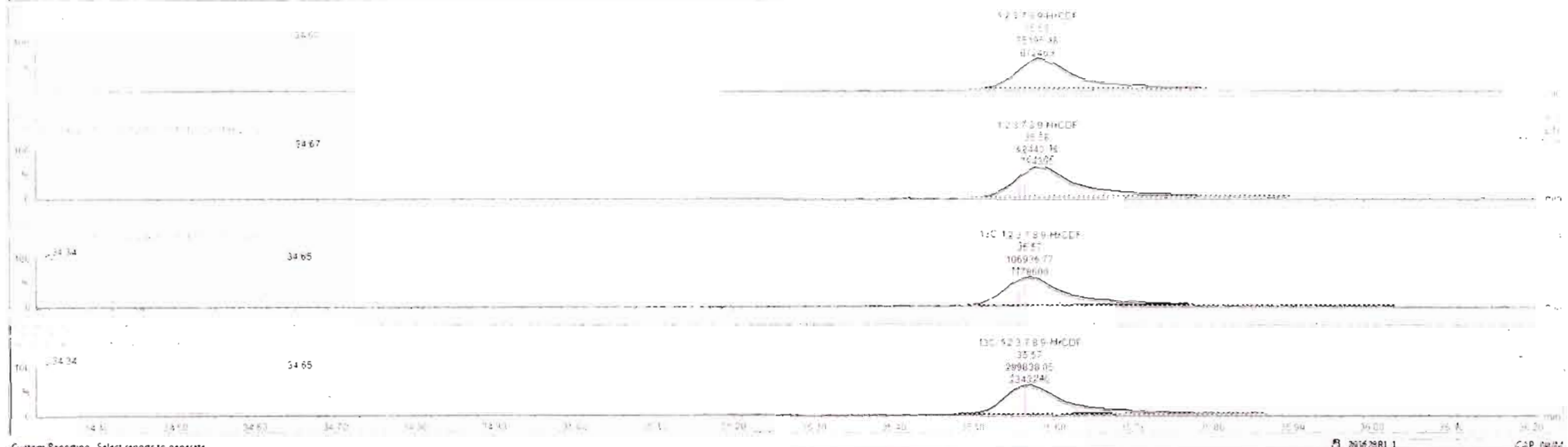


DPE3





#	Name	Resp	IS Resp	Pred RA	RA	My	RRF	Pred RT	RT	RT Flag	Pred RR	RR	Conc	Area	STD cut
1	1:1:1.78-H2O	1.42e5	1.70e5	0.77	0.94	NO	0.9983	34.50	34.40	NO	1.001	1.001	10.0	156	NO
2	1:1:2.178-H2O	1.71e5	4.06e5	0.43	0.84	NO	0.9021	34.46	34.46	NO	1.001	1.001	46.8	53.1	NO
3	1:1:3.478-H2O	1.27e5	2.55e5	1.24	1.25	NO	1.0334	34.02	34.54	NO	1.000	1.000	40.4	96.6	NO
4	1:1:4.1678-H2O	1.95e5	4.42e5	1.24	1.29	NO	0.9920	34.30	34.50	NO	1.000	1.000	30.0	101	NO
5	1:1:1.178-H2O	1.05e5	7.72e5	1.24	1.31	NO	0.9869	35.22	35.22	NO	1.000	1.000	49.9	31.2	NO
6	1:1:2.74878-H2O	1.04e5	2.43e5	1.04	1.02	NO	0.9839	33.77	33.77	NO	1.000	1.000	41.8	89.2	NO
7	1:1:1.0000	2.18e5	4.75e5	0.46	0.97	NO	0.9138	34.78	34.77	NO	1.000	1.000	35.7	90.7	NO
8	1:1:1.178-H2O	1.05e5	8.92e5	0.77	0.94	NO	0.9910	34.50	34.50	NO	1.001	1.001	10.0	157	NO
9	1:1:2.178-H2O	1.05e5	2.44e5	1.04	1.04	NO	0.9920	33.77	33.77	NO	1.000	1.000	47.8	98.1	NO
10	1:1:3.478-H2O	2.83e5	5.67e5	1.00	1.00	NO	0.9740	34.10	34.10	NO	1.001	1.000	45.4	96.2	NO
11	1:1:4.1678-H2O	1.87e5	2.52e5	1.24	1.23	NO	0.9840	33.84	33.96	NO	1.000	1.000	30.0	101	NO
12	1:1:2.74878-H2O	1.05e5	2.22e5	1.24	1.21	NO	0.9990	34.00	34.02	NO	1.000	1.000	40.4	88.5	NO
13	1:1:3.478-H2O	1.05e5	4.22e5	1.24	1.23	NO	0.9941	34.69	34.67	NO	1.000	1.000	45.0	92.8	NO
14	1:1:2.378-H2O	1.30e5	3.17e5	1.24	1.20	NO	0.9707	35.57	35.58	NO	1.000	1.000	45.9	95.8	NO
15	1:1:1.478-H2O	1.44e5	3.15e5	1.04	1.02	NO	0.9734	34.50	34.50	NO	1.001	1.001	37.0	105	NO
16	1:1:2.178-H2O	1.05e5	2.04e5	1.04	1.04	NO	1.0123	33.50	33.52	NO	1.000	1.000	52.8	105	NO
17	1:1:1.0000	2.33e5	6.81e5	0.39	0.86	NO	0.9065	41.54	41.54	NO	1.000	1.000	10.0	103	NO
18	1:1:1.0000	5.75e5	4.43e5	0.77	0.80	NO	1.1880	38.49	38.47	NO	1.000	1.000	11.0	110	NO
19	1:1:1.2378-H2O	4.06e5	4.42e5	0.91	0.83	NO	0.9490	34.57	34.44	NO	1.000	1.000	100	100	NO
20	1:1:1.2378-H2O	2.55e5	3.75e5	1.24	1.26	NO	0.7790	34.82	34.81	NO	1.000	1.000	36.9	88.8	NO
21	1:1:1.2378-H2O	4.42e5	3.75e5	1.24	1.26	NO	1.1167	34.50	34.52	NO	1.017	1.017	11.0	110	NO



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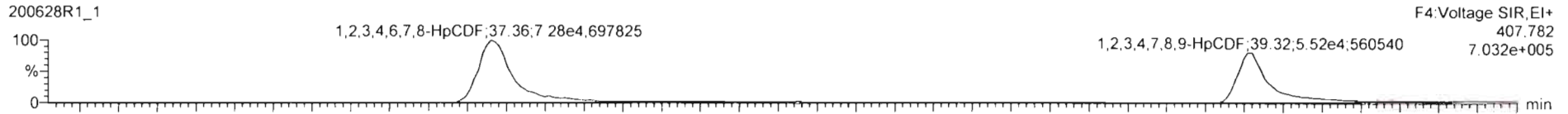
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Printed: Monday, June 29, 2020 06:45:52 Pacific Daylight Time

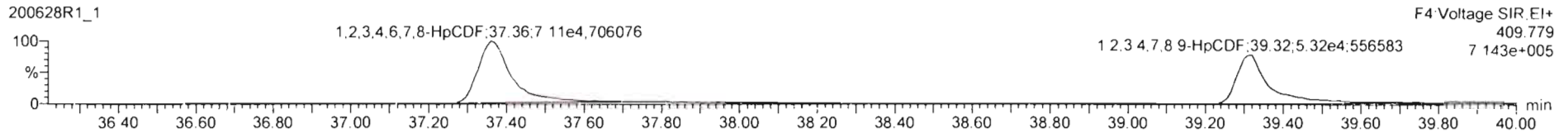
Name: 200628R1_1, Date: 28-Jun-2020, Time: 10:25:29, ID: ST200628R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200628R1_1

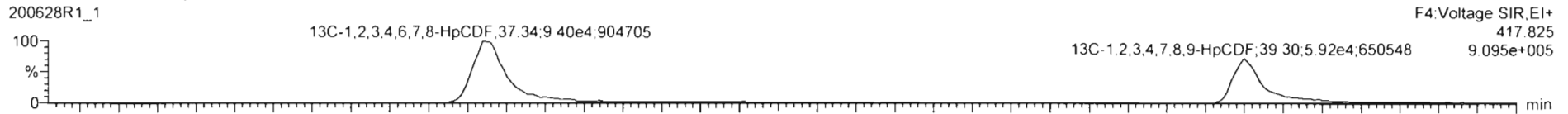


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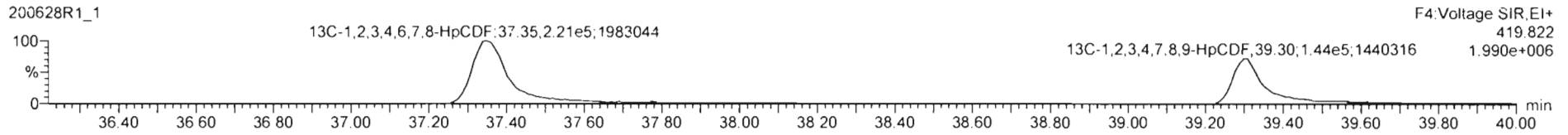


13C-1,2,3,4,6,7,8-HpCDF

200628R1_1

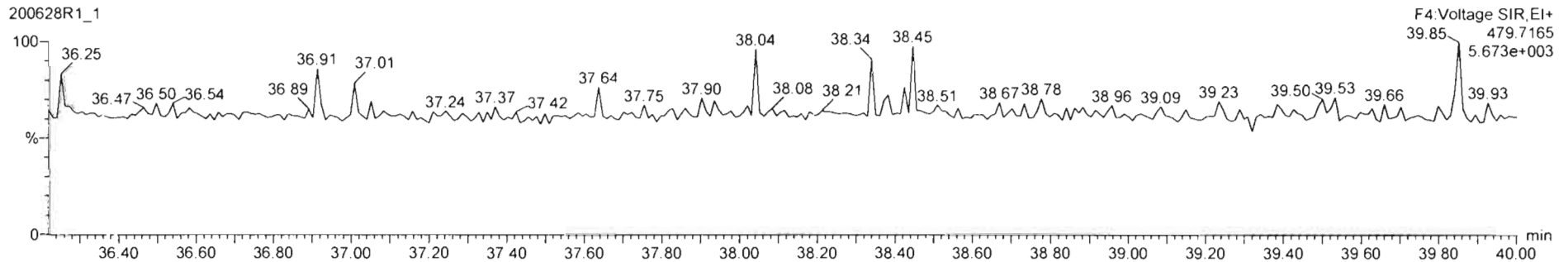


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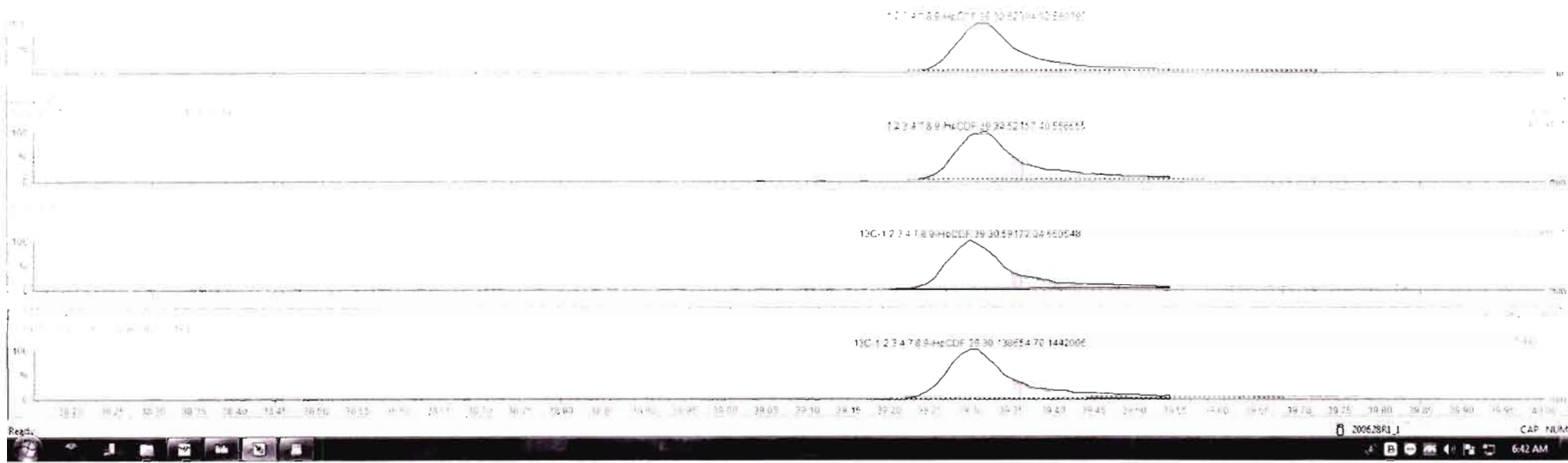


DPE4

200628R1_1



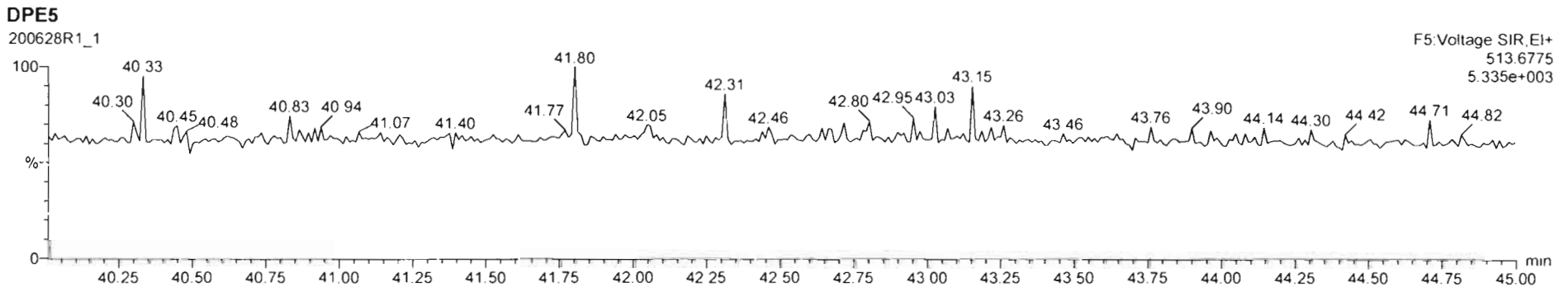
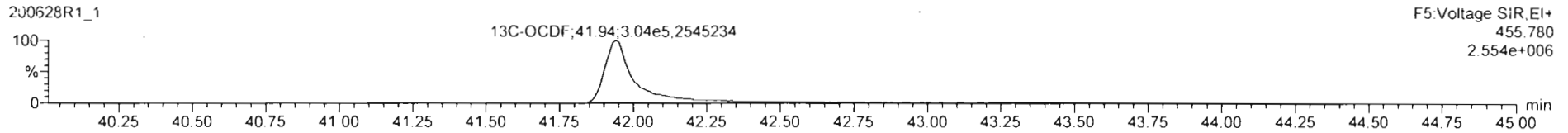
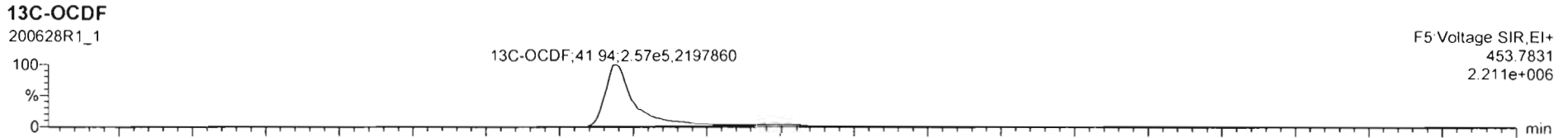
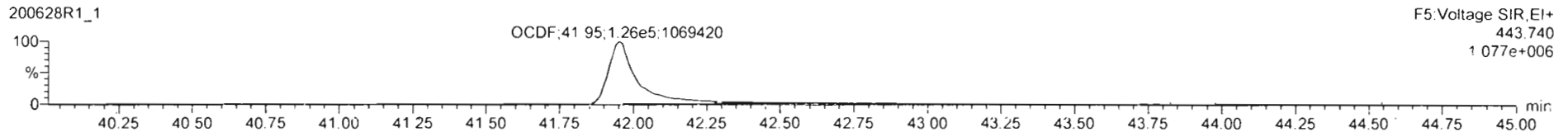
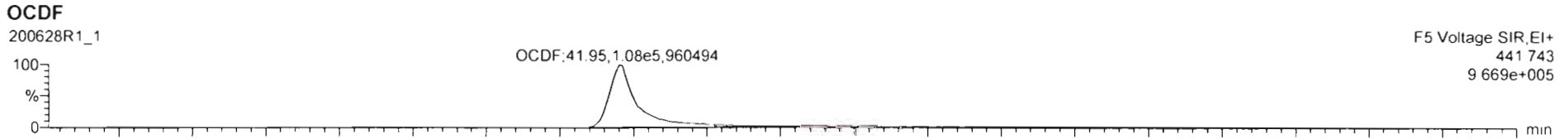
#	Name	Resp	ID Resp	Pred RA	RA	Qty	RRF	Pred RT	RT	RT Pp	Pred RR	RR	Code	%Rec	STD out
1	1,2,3,7,8-HpCDD	2.44e4	3.75e4	0.77	0.74	NO	0.8383	29.52	29.48	NO	1.001	1.001	12.9	106	NO
2	1,2,3,7,8-PeCDD	1.7e5	4.05e5	0.83	0.84	NO	0.9081	31.48	31.48	NO	1.001	1.000	48.9	13.1	NO
3	1,2,3,4,7,8-HxCDD	1.27e5	2.55e5	1.24	1.25	NO	1.0294	34.82	34.84	NO	1.000	1.001	45.4	96.8	NO
4	1,2,3,6,7,8-HxCDD	1.59e5	4.42e5	1.24	1.21	NO	0.9523	34.82	34.83	NO	1.000	1.000	35.9	101	NO
5	1,2,3,6,8-HxCDD	1.60e5	3.52e5	1.24	1.23	NO	0.9345	34.82	34.82	NO	1.000	1.000	48.6	97.0	NO
6	1,2,3,4,6,7,8-HpCDD	1.04e5	2.43e5	1.24	1.22	NO	0.9675	33.77	33.77	NO	1.000	1.011	43.8	99.2	NO
7	1-CDD	2.16e5	4.75e5	0.39	0.37	NO	1.9135	41.75	41.77	NO	1.000	1.000	33.7	88.7	NO
8	1,2,3,6,7,8-PeCDF	3.28e4	8.92e4	0.77	0.73	NO	0.7810	29.42	29.49	NO	1.001	1.001	10.0	101	NO
9	1,2,3,7,8-PeCDF	2.85e5	6.24e5	1.33	1.34	NO	0.9520	32.37	32.37	NO	1.001	1.000	47.9	91.9	NO
10	1,2,3,4,7,8-HxCDF	2.81e5	5.47e5	1.55	1.58	NO	0.9348	31.18	31.18	NO	1.001	1.000	49.4	99.2	NO
11	1,2,3,4,7,8-HxCDF	1.57e5	3.92e5	1.24	1.23	NO	0.8845	33.94	33.96	NO	1.000	1.001	52.3	101	NO
12	1,2,3,6,7,8-HxCDF	2.08e5	5.23e5	1.24	1.23	NO	0.9382	34.82	34.82	NO	1.000	1.000	45.4	96.8	NO
13	1,2,3,4,6,7,8-HpCDF	1.36e5	4.09e5	1.24	1.23	NO	0.9341	34.85	34.87	NO	1.001	1.000	46.3	92.8	NO
14	1,2,3,7,8-HxCDF	1.58e5	3.77e5	1.24	1.20	NO	0.8767	35.87	35.88	NO	1.000	1.000	49.5	99.8	NO
15	1,2,3,4,6,7,8-HpCDF	1.44e5	3.75e5	1.24	1.22	NO	0.8794	33.36	33.36	NO	1.001	1.001	52.3	101	NO
16	1,2,3,4,7,8,9-HpCDF	1.05e5	1.99e5	1.04	1.00	NO	1.0128	39.30	39.32	NO	1.000	1.001	52.3	104	NO
17	1-CDF	2.33e4	5.61e4	0.39	0.36	NO	0.8065	41.84	41.84	NO	1.000	1.000	18.0	103	NO
18	1,2,3,7,8-PeCDD	5.79e5	4.43e5	0.77	0.76	NO	1.1563	29.48	29.47	NO	1.000	1.000	11.2	110	NO
19	1,2,3,6,7,8-PeCDD	4.06e5	4.43e5	0.63	0.63	NO	0.8490	31.67	31.44	NO	1.007	1.018	10.0	108	NO
20	1,2,3,4,7,8-HxCDD	2.56e5	3.78e5	1.24	1.29	NO	0.7790	34.82	34.81	NO	1.014	1.014	38.6	86.5	NO
21	1,2,3,4,6,7,8-HpCDD	4.42e5	1.59e5	1.24	1.25	NO	1.0187	34.87	34.82	NO	1.011	1.011	11.9	114	NO



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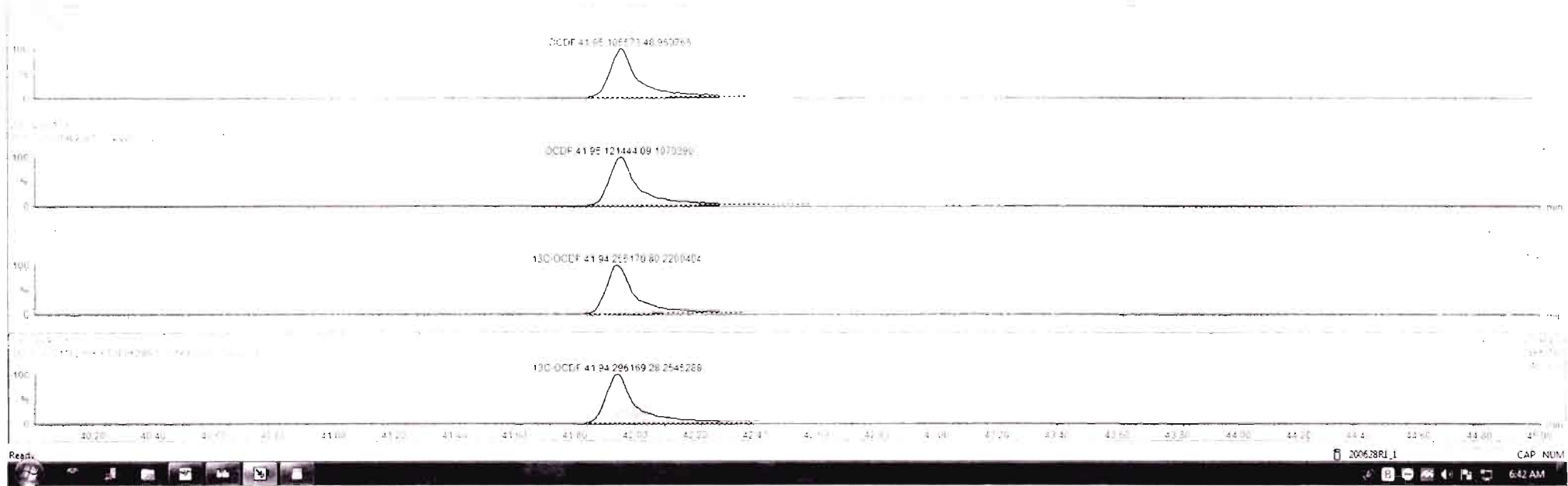
Last Altered: Monday, June 29, 2020 06:43:54 Pacific Daylight Time
Printed: Monday, June 29, 2020 06:45:52 Pacific Daylight Time

Name: 200628R1_1, Date: 28-Jun-2020, Time: 10:25:29, ID: ST200628R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



200628R1_1 - ST200628R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	#	Name	Resp	IS Reso	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Res	STD dev
1	1	1.2.3.7.8.7-CDD	1.42e4	1.75e5	0.77	0.75	NO	0.8823	20.10	20.48	NO	1.001	1.001	100	100	NO
2	2	1.2.3.7.8.7e-CDD	7.1e5	4.00e5	0.83	0.84	NO	0.9021	21.48	21.48	NO	1.001	1.000	46.4	53.1	NO
3	3	1.2.3.4.7.8-MxCDD	1.57e5	2.55e5	1.24	1.25	NO	1.0334	24.02	24.04	NO	1.000	1.001	45.4	56.0	NO
4	4	1.2.3.6.7.8-MxCDD	1.59e5	4.42e5	1.24	1.23	NO	0.8923	24.82	24.83	NO	1.000	1.000	51.4	48.6	NO
5	5	1.2.3.7.8.7-MxCDD	1.60e5	3.70e5	1.24	1.23	NO	0.8563	25.22	25.22	NO	1.000	1.000	48.3	51.7	NO
6	6	1.2.3.4.7.8-MxCDD	1.64e5	2.43e5	1.24	1.20	NO	0.8819	26.07	26.07	NO	1.000	1.000	49.1	50.9	NO
7	7	1-CDD	2.16e5	4.79e5	0.89	0.87	NO	0.9138	27.75	27.77	NO	1.000	1.001	37.7	62.3	NO
8	8	1.2.3.7.8-CDF	1.28e4	6.24e5	0.77	0.75	NO	0.8793	28.02	28.04	NO	1.001	1.001	10.1	89.9	NO
9	9	1.2.3.7.8-CDF	2.69e5	6.24e5	0.85	0.85	NO	0.8925	32.07	32.07	NO	1.001	1.001	47.6	52.4	NO
10	10	1.2.3.4.7.8-CDF	2.43e5	6.87e5	0.86	0.88	NO	0.9342	31.18	31.18	NO	1.001	1.000	45.4	54.6	NO
11	11	1.2.3.4.7.8-MxCDF	1.57e5	3.62e5	1.24	1.23	NO	0.8645	33.94	33.96	NO	1.000	1.001	55.7	44.3	NO
12	12	1.2.3.6.7.8-MxCDF	2.23e5	1.22e5	1.24	1.21	NO	0.8892	34.02	34.08	NO	1.000	1.000	48.4	51.6	NO
13	13	1.2.3.4.7.8-MxCDF	1.59e5	4.29e5	1.24	1.21	NO	0.8561	34.65	34.67	NO	1.001	1.000	46.3	53.7	NO
14	14	1.2.3.7.8-MxCDF	1.28e5	1.17e5	1.24	1.20	NO	0.8707	35.07	35.08	NO	1.000	1.000	49.5	50.5	NO
15	15	1.2.3.4.7.8-MxCDF	1.44e5	3.18e5	1.24	1.20	NO	0.8754	37.76	37.76	NO	1.001	1.001	52.3	47.7	NO
16	6	1.2.3.4.7.8-MxCDF	1.57e5	1.99e5	1.24	1.20	NO	1.0125	39.30	39.32	NO	1.000	1.001	52.2	47.8	NO
17	17	OCDF	2.27e5	5.51e5	0.88	0.87	NO	0.8065	41.94	41.95	NO	1.000	1.000	102	102	NO
18	18	13C-1.2.3.7.8-7-CDD	5.78e5	4.43e5	0.77	0.70	NO	1.1563	20.48	20.47	NO	1.028	1.028	112	112	NO
19	19	13C-1.2.3.7.8-8e-CDD	4.06e5	4.43e5	0.83	0.83	NO	0.9490	21.87	21.44	NO	1.027	1.218	108	108	NO
20	20	13C-1.2.3.4.7.8-MxCDD	2.55e5	3.79e5	1.24	1.20	NO	0.7797	34.82	34.81	NO	1.074	1.074	86.4	86.4	NO
21	21	13C-1.2.3.6.7.8-MxCDD	4.42e5	3.79e5	1.24	1.25	NO	1.0167	34.93	34.92	NO	1.017	1.017	115	115	NO



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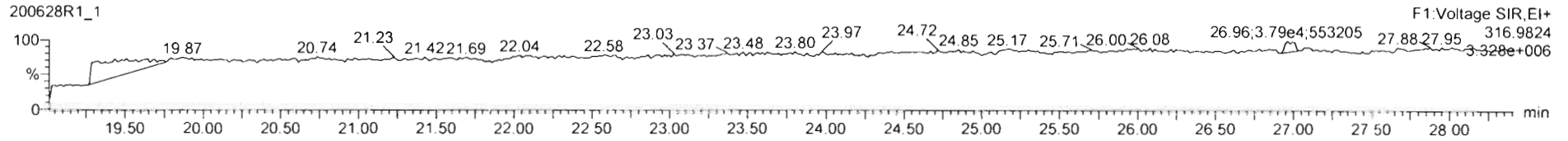
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Printed: Monday, June 29, 2020 06:45:52 Pacific Daylight Time

Name: 200628R1_1, Date: 28-Jun-2020, Time: 10:25:29, ID: ST200628R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

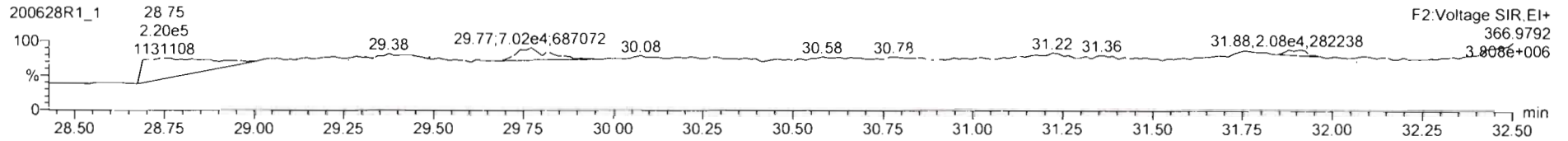
PFK1

200628R1_1



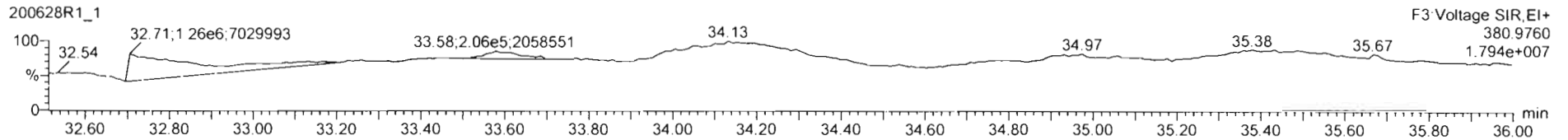
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200628R1_1



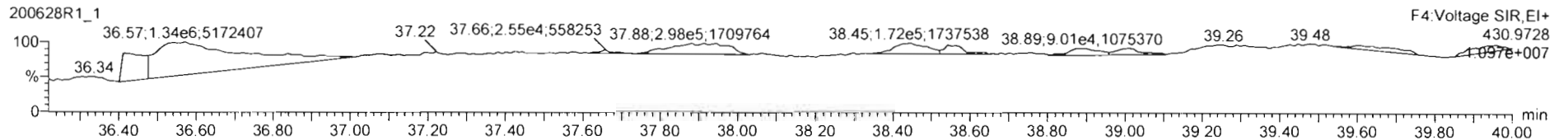
PFK3

200628R1_1



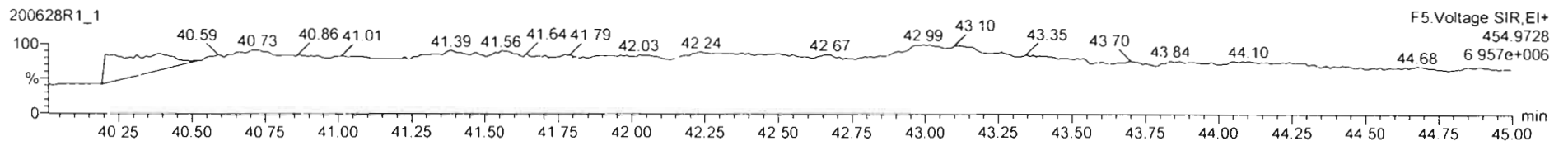
PFK4

200628R1_1



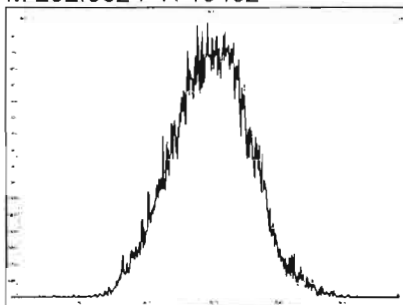
PFK5

200628R1_1

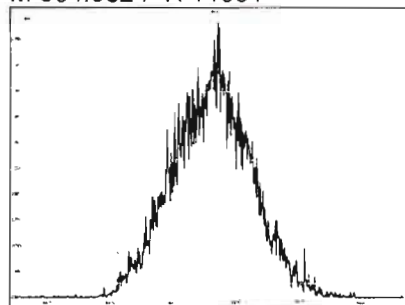


Printed: Sunday, June 28, 2020 22:07:16 Pacific Daylight Time

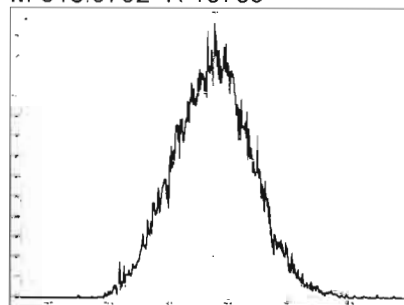
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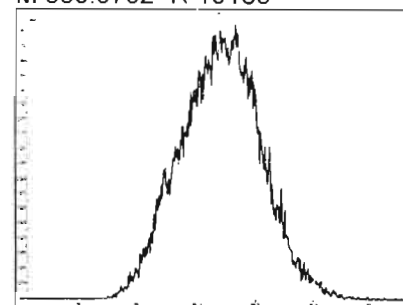
M 304.9824 R 11061



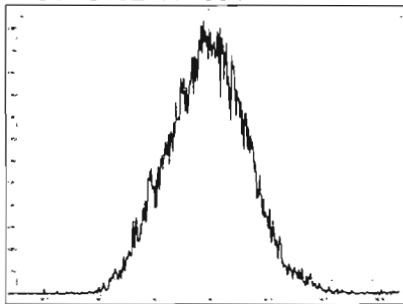
M 318.9792 R 10706



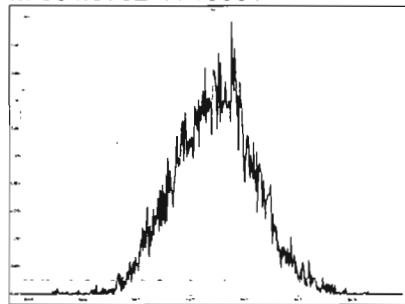
M 330.9792 R 10183



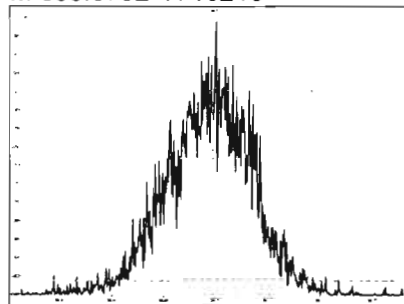
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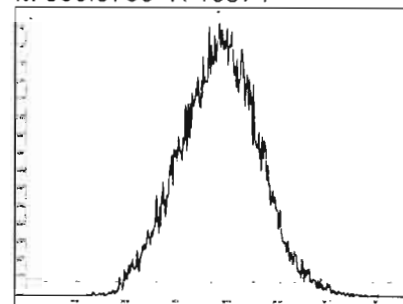
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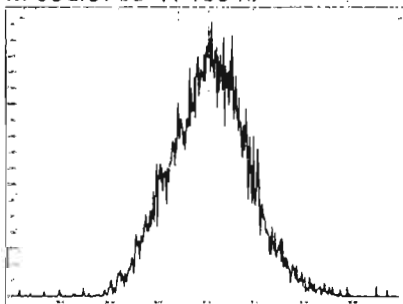
M 366.9792 R 10210



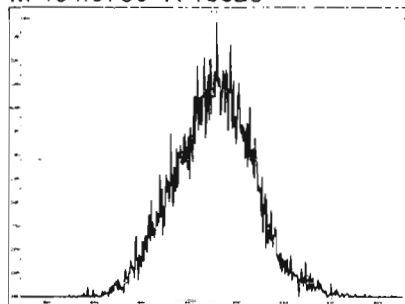
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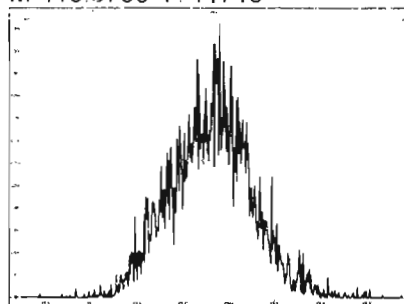
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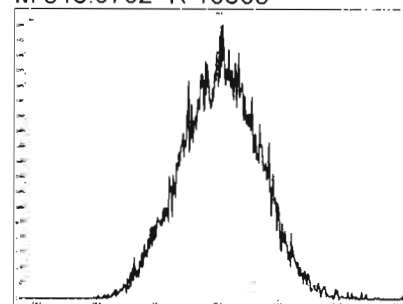
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M 416.9760 R 11713

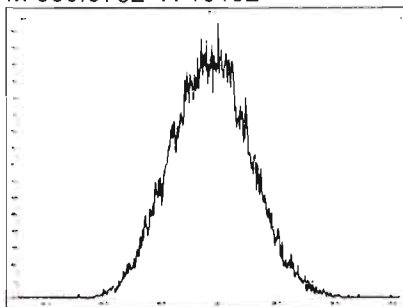


M 318.9792 R 10803

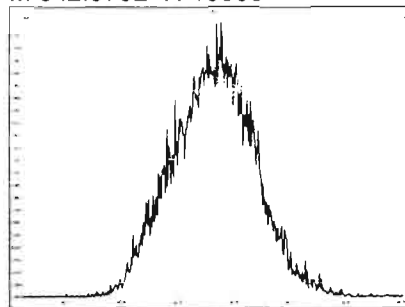


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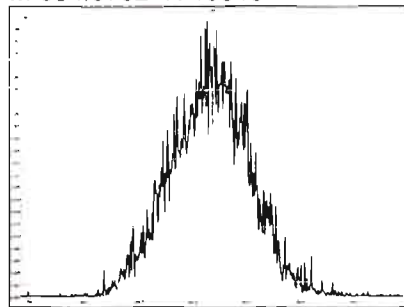
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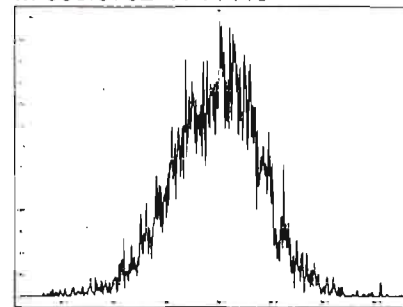
M 342.9792 R 10505



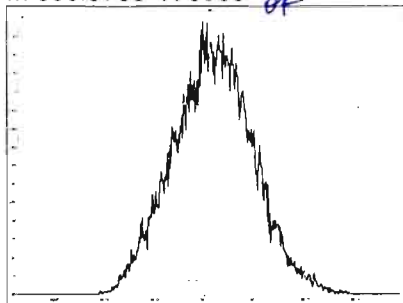
M 354.9792 R 10619



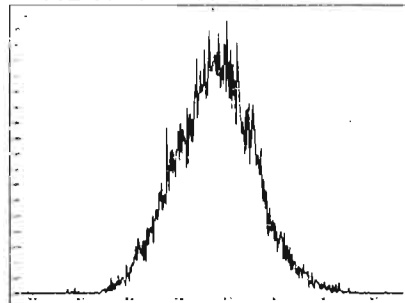
M 366.9792 R 11416



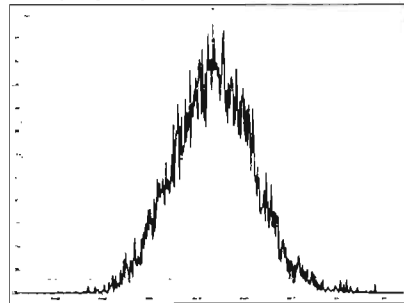
M 380.9760 R 9980 *ok*



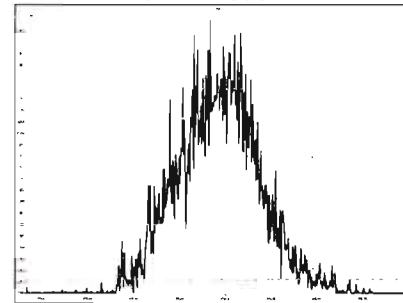
M 392.9760 R 10273



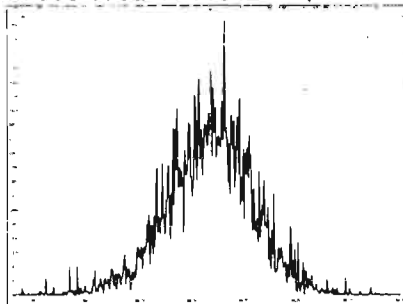
M 404.9760 R 11210



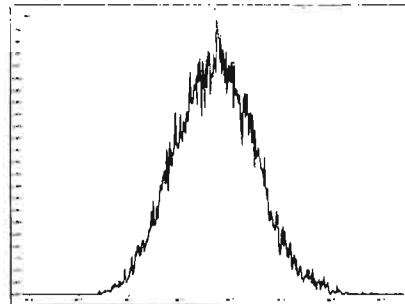
M 416.9760 R 11933



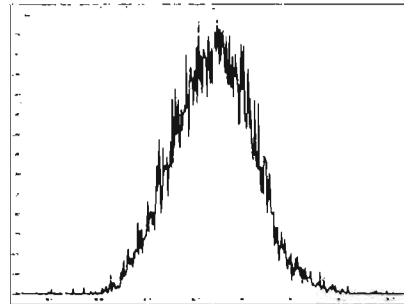
M 366.9792 R 11342



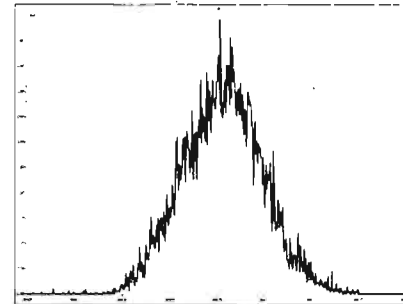
M 380.9760 R 10122



M 392.9760 R 10832

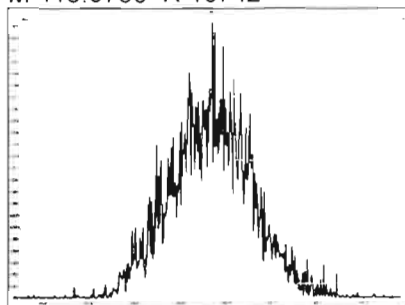


M 404.9760 R 10791

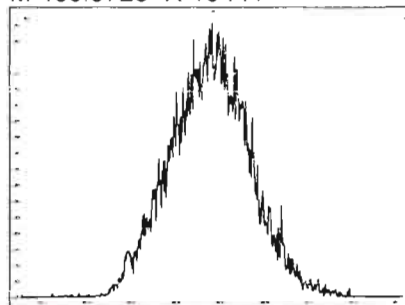


Printed: Sunday, June 28, 2020 22:07:16 Pacific Daylight Time

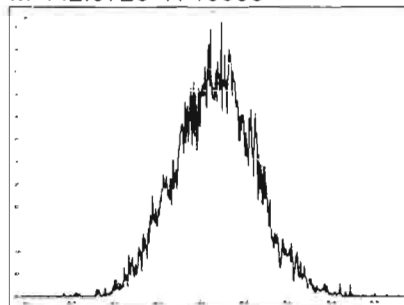
M 416.9760 R 10742



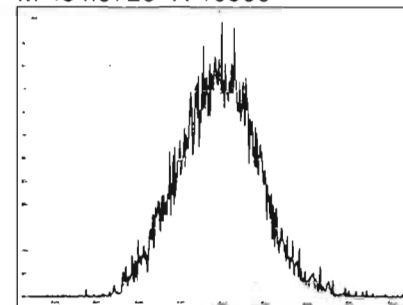
M 430.9728 R 10441



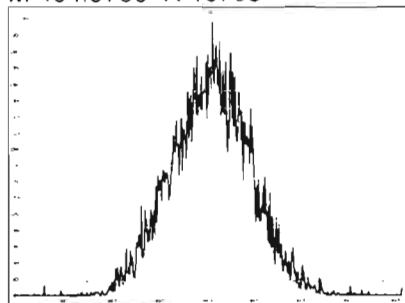
M 442.9728 R 10638



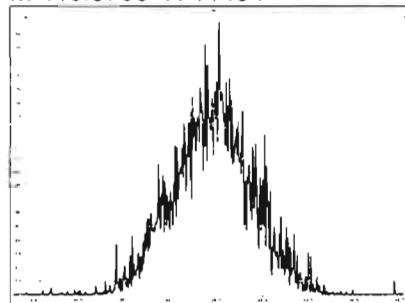
M 454.9728 R 10593



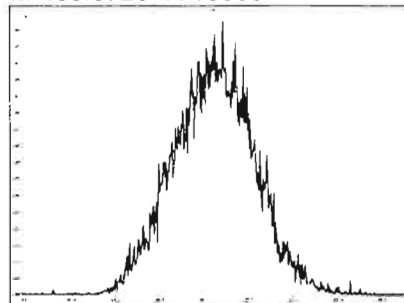
M 404.9760 R 10755



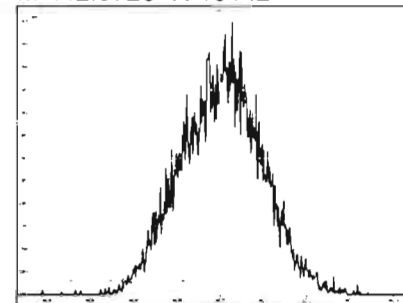
M 416.9760 R 11494



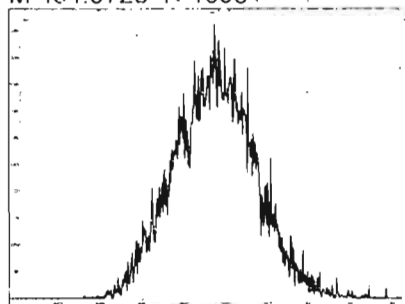
M 430.9728 R 10665



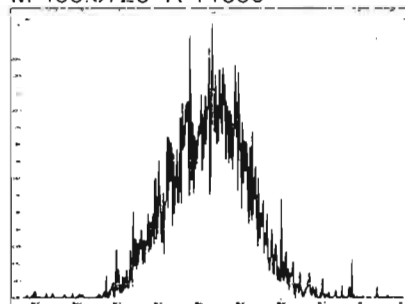
M 442.9728 R 10142



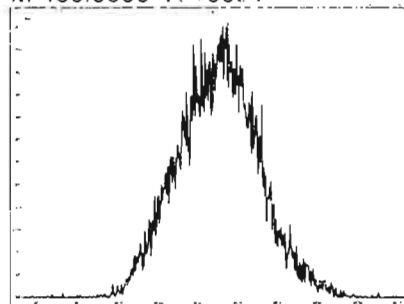
M 454.9728 R 10981



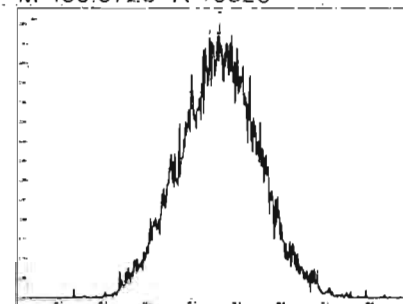
M 466.9728 R 11860



M 480.9695 R 10061

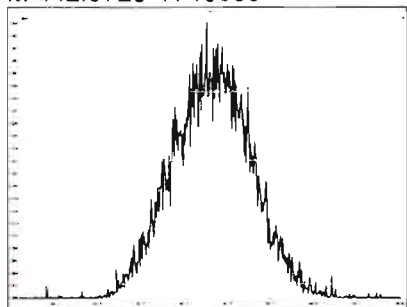


M 430.9728 R 10623

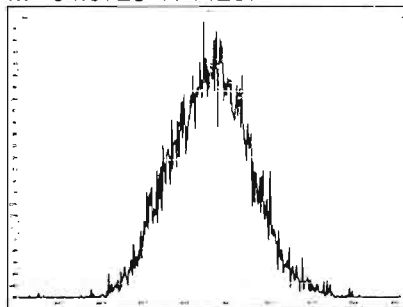


Printed: Sunday, June 28, 2020 22:07:16 Pacific Daylight Time

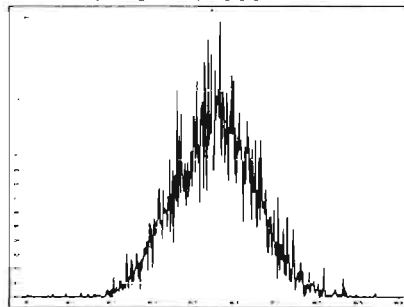
M 442.9728 R 10965



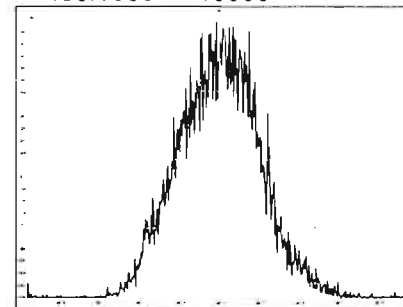
M 454.9728 R 11287



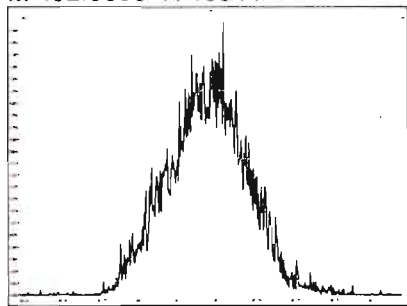
M 466.9728 R 12005



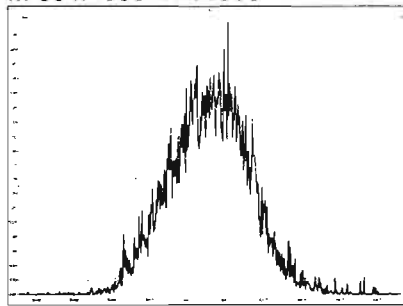
M 480.9696 R 10330



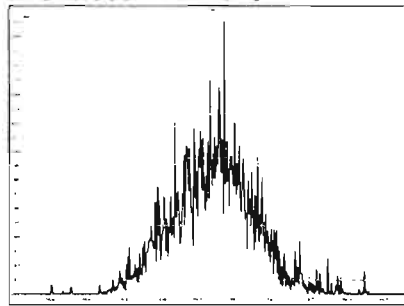
M 492.9696 R 10944



M 504.9696 R 11396



M 516.9697 R 11640



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Reg. Calibration ID: ST200107R2-1

Reviewed By: CJ 07/08/2020
Initials & Date

End Calibration ID: NA

	<u>Reg.</u>	<u>End</u>		<u>Reg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	Mass resolution \geq	<input checked="" type="checkbox"/>	<input 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"/> NA
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%		<input type="checkbox"/> 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"/> NA
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments: 		
Correct ICAL referenced?	<u>GRB</u>	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> ↓			
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> (Y)	N			
- Bottle position verified?		<u>GRB</u>			

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-1.qld

Last Altered: Tuesday, July 07, 2020 1:53:33 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 1:53:59 PM Pacific Daylight Time

GRB 07/07/2020

CT 07/08/2020

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21

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

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	ny	RF	Pred RT	RT	RT Flag	Pred RT	RT	Area	Height	ID
1	2,3,7,8-TCDD	4.40e4	5.28e5	0.72	NO	0.888	26.49	26.48	NO	1.001	1.001	9.3724	93.7	NO
2	1,2,3,7,8-PeCDD	1.53e5	3.74e5	0.61	NO	0.908	31.46	31.45	NO	1.001	1.000	45.033	90.1	NO
3	1,2,3,4,7,8-HxCDD	1.19e5	2.47e5	1.25	NO	1.03	34.84	34.84	NO	1.000	1.000	46.835	93.7	NO
4	1,2,3,6,7,8-HxCDD	1.52e5	3.32e5	1.36	NO	0.892	34.93	34.94	NO	1.000	1.000	51.451	103	NO
5	1,2,3,7,8,9-HxCDD	1.11e5	2.63e5	1.21	NO	0.887	35.24	35.23	NO	1.001	1.001	47.559	95.1	NO
6	1,2,3,4,6,7,8-HpCDD	8.55e4	2.03e5	1.01	NO	0.864	38.78	38.79	NO	1.000	1.001	48.684	97.4	NO
7	OCDD	1.69e5	3.75e5	0.86	NO	0.914	41.78	41.79	NO	1.000	1.000	98.370	98.4	NO
8	2,3,7,8-TCDF	4.32e4	6.45e5	0.74	NO	0.751	25.60	25.59	NO	1.001	1.001	8.9195	89.2	NO
9	1,2,3,7,8-PeCDF	2.13e5	5.03e5	1.50	NO	0.893	30.17	30.17	NO	1.001	1.001	47.402	94.8	NO
10	2,3,4,7,8-PeCDF	2.13e5	4.79e5	1.54	NO	0.935	31.15	31.15	NO	1.001	1.000	47.631	95.3	NO
11	1,2,3,4,7,8-HxCDF	1.24e5	2.88e5	1.21	NO	0.884	33.95	33.96	NO	1.000	1.000	48.561	97.1	NO
12	1,2,3,6,7,8-HxCDF	1.52e5	3.50e5	1.21	NO	0.889	34.08	34.08	NO	1.000	1.000	48.921	97.8	NO
13	2,3,4,6,7,8-HxCDF	1.39e5	3.11e5	1.22	NO	0.934	34.69	34.68	NO	1.001	1.000	47.830	95.7	NO
14	1,2,3,7,8,9-HxCDF	1.01e5	2.41e5	1.22	NO	0.871	35.60	35.59	NO	1.001	1.000	48.069	96.1	NO
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5	0.99	NO	0.873	37.40	37.38	NO	1.001	1.001	48.684	97.4	NO
16	1,2,3,4,7,8,9-HpCDF	7.38e4	1.40e5	0.96	NO	1.01	39.32	39.33	NO	1.000	1.000	52.017	104	NO
17	OCDF	1.57e5	4.02e5	0.86	NO	0.806	41.97	41.98	NO	1.000	1.000	96.792	96.8	NO
18	13C-2,3,7,8-TCDD	5.28e5	4.62e5	0.76	NO	1.16	26.45	26.45	NO	1.025	1.026	96.991	99.0	NO
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.62e5	0.62	NO	0.849	31.46	31.44	NO	1.219	1.219	95.444	95.4	NO
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.99e5	1.26	NO	0.779	34.82	34.83	NO	1.014	1.014	105.87	106	NO
21	13C-1,2,3,6,7,8-HxCDD	3.32e5	2.99e5	1.25	NO	1.02	34.92	34.93	NO	1.017	1.017	109.13	109	NO
22	13C-1,2,3,7,8,9-HxCDD	2.63e5	2.99e5	1.23	NO	0.903	35.23	35.21	NO	1.026	1.025	97.355	97.4	NO
23	13C-1,2,3,4,6,7,8-HpCDD	2.03e5	2.99e5	1.00	NO	0.689	38.77	38.77	NO	1.129	1.129	96.488	96.5	NO
24	13C-OCDD	3.75e5	2.99e5	0.88	NO	0.652	41.78	41.78	NO	1.216	1.216	192.14	96.1	NO
25	13C-2,3,7,8-TCDF	6.45e5	5.93e5	0.73	NO	1.08	25.56	25.57	NO	0.991	0.991	102.83	103	NO
26	13C-1,2,3,7,8-PeCDF	5.03e5	5.93e5	1.57	NO	0.838	30.17	30.15	NO	1.170	1.169	101.23	101	NO
27	13C-2,3,4,7,8-PeCDF	4.79e5	5.93e5	1.57	NO	0.817	31.15	31.13	NO	1.207	1.207	98.989	99.0	NO
28	13C-1,2,3,4,7,8-HxCDF	2.88e5	2.99e5	0.50	NO	1.01	33.95	33.95	NO	0.989	0.989	95.473	95.5	NO
29	13C-1,2,3,6,7,8-HxCDF	3.50e5	2.99e5	0.50	NO	1.17	34.07	34.07	NO	0.992	0.992	100.09	100	NO
30	13C-2,3,4,6,7,8-HxCDF	3.11e5	2.99e5	0.50	NO	1.02	34.65	34.67	NO	1.009	1.009	101.67	102	NO

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-1.qld

Last Altered: Tuesday, July 07, 2020 1:53:33 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 1:53:59 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Area	Height	Area	Height	Area	Height	Pred. RT	RT	RT Flag	Area	Height	Area	Height
31	13C-1,2,3,7,8,9-HxCDF	2.41e5	2.99e5	0.48	NO	0.860	35.58	35.58	NO	1.036	1.036	93.515	93.5	NO
32	13C-1,2,3,4,6,7,8-HpCDF	2.22e5	2.99e5	0.43	NO	0.774	37.36	37.36	NO	1.088	1.088	95.568	95.6	NO
33	13C-1,2,3,4,7,8,9-HpCDF	1.40e5	2.99e5	0.45	NO	0.521	39.33	39.32	NO	1.145	1.145	89.794	89.8	NO
34	13C-OCDF	4.02e5	2.99e5	0.87	NO	0.746	41.97	41.97	NO	1.222	1.222	180.03	90.0	NO
35	37Cl-2,3,7,8-TCDD	4.46e4	4.62e5			1.04	26.47	26.48	NO	1.026	1.027	9.3171	93.2	NO
36	13C-1,2,3,4-TCDD	4.62e5	4.62e5	0.77	NO	1.00	25.74	25.80	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	5.93e5	5.93e5	0.78	NO	1.00	24.03	24.10	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	2.99e5	2.99e5	0.50	NO	1.00	34.29	34.35	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Wednesday, July 08, 2020 7:10:35 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 7:10:40 AM Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21
Calibration: U:\VG12.PRO\CurveDB\vb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

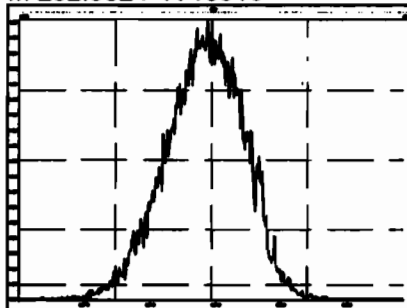
Compound name: 2,3,7,8-TCDD

Name	ID	Acq.Date	Acq.Time
200707R2_1	ST200707R2_1 1613 CS3 19L2305	07-Jul-20	12:59:11
200707R2_2	B0F0283-BS1 OPR 1	07-Jul-20	13:47:43
200707R2_3	B0F0280-BS1 OPR 10	07-Jul-20	14:34:04
200707R2_4	SOLVENT BLANK	07-Jul-20	15:19:31
200707R2_5	B0F0283-BLK1 Method Blank 1	07-Jul-20	16:04:56
200707R2_6	B0F0280-BLK1 Method Blank 10	07-Jul-20	16:50:19
200707R2_7	2001274-02 Field Blank 177-06Jun2020 0.948...	07-Jul-20	17:35:44
200707R2_8	2001274-04 Field Blank 919-06Jun 2020 0.94...	07-Jul-20	18:21:08
200707R2_9	2001274-06 Field Blank ATG160-06Jun2020 0...	07-Jul-20	19:08:31
200707R2_10	2001347-01 Bleach Plant Effluent 0.84451	07-Jul-20	19:51:55
200707R2_11	2001274-01 177-06Jun2020 0.9589	07-Jul-20	20:37:19
200707R2_12	2001274-03 919-06Jun2020 0.94562	07-Jul-20	21:22:42
200707R2_13	2001274-05 ATG160-06Jun2020 1.03714	07-Jul-20	22:08:08
200707R2_14	2001155-01 PDI-1175SC-A-01-02-200522 11.08	07-Jul-20	22:53:30
200707R2_15	2001035-01RE1 PDI-050SC-A-00-01-200508 ...	07-Jul-20	23:38:54

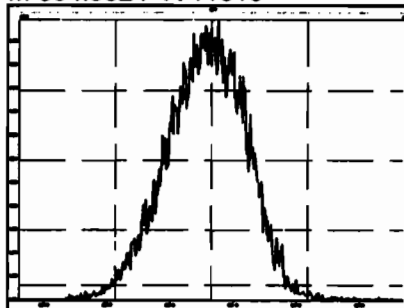
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, July 07, 2020 12:55:21 Pacific Daylight Time

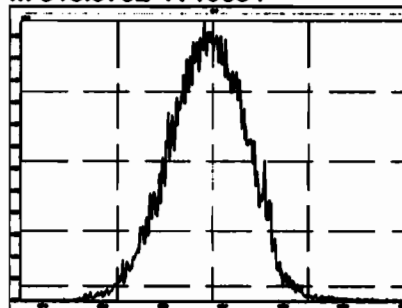
M 292.9824 R 10916



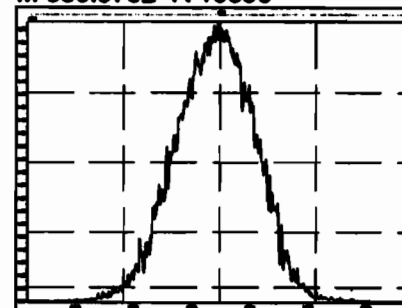
M 304.9824 R 11010



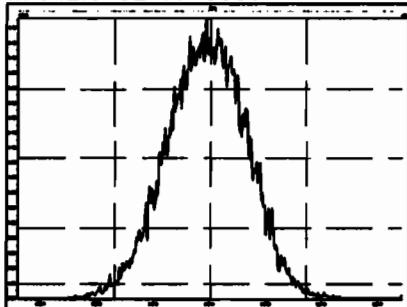
M 318.9792 R 10684



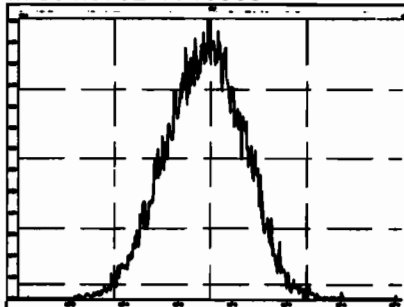
M 330.9792 R 10596



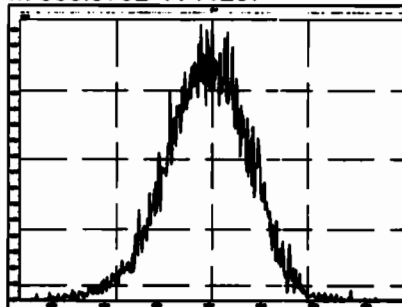
M 342.9792 R 10639



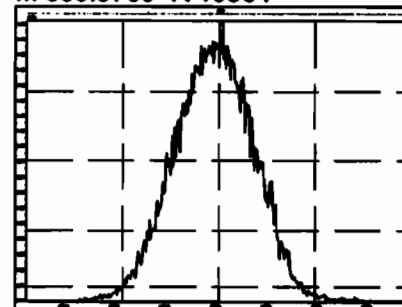
M 354.9792 R 10968



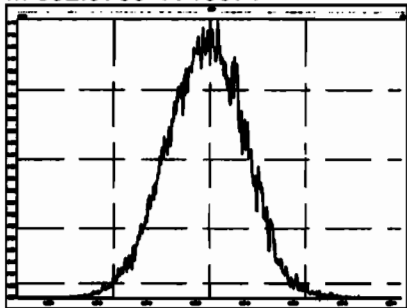
M 366.9792 R 11207



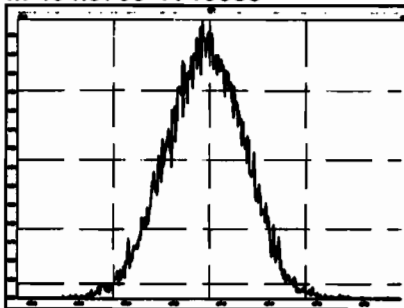
M 380.9760 R 10964



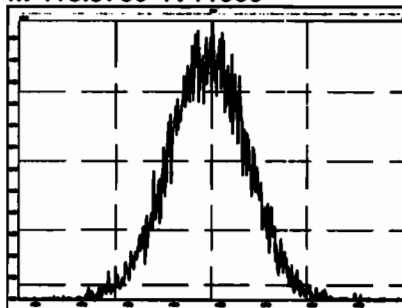
M 392.9760 R 10871



M 404.9760 R 10638



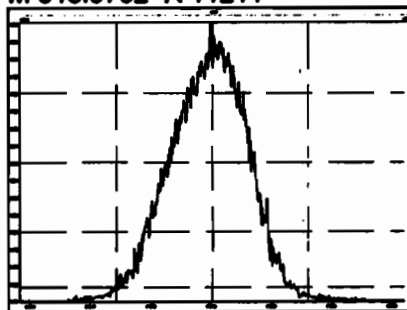
M 416.9760 R 11060



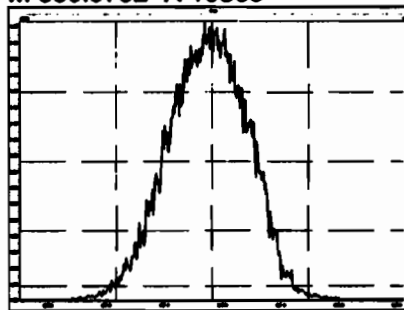
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, July 07, 2020 12:55:46 Pacific Daylight Time

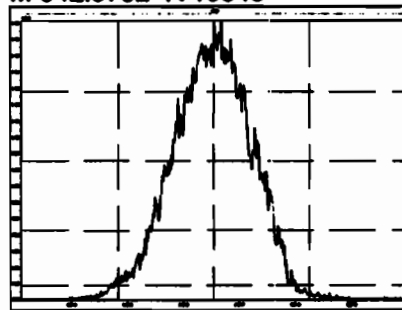
M 318.9792 R 11211



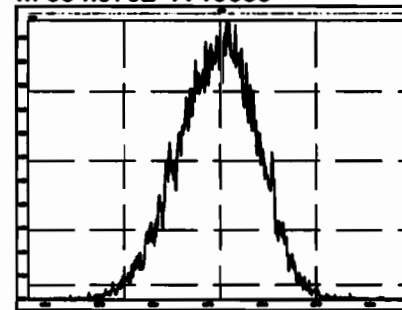
M 330.9792 R 10868



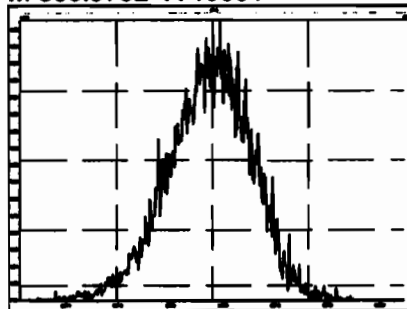
M 342.9792 R 10545



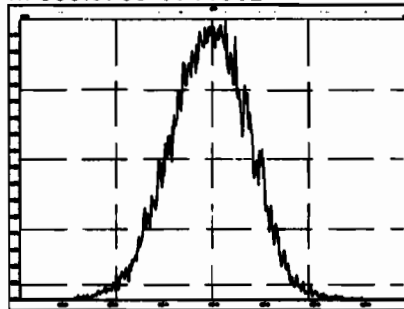
M 354.9792 R 10683



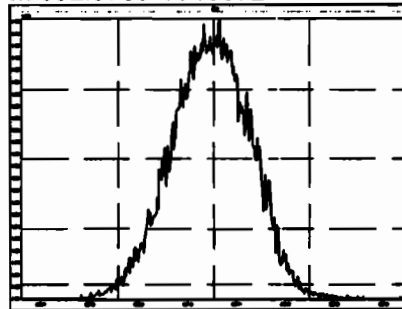
M 366.9792 R 10501



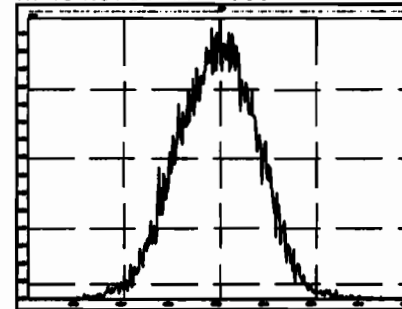
M 380.9760 R 11062



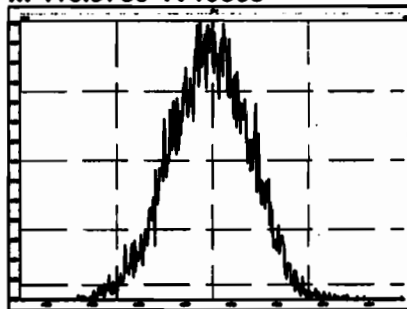
M 392.9760 R 10872



M 404.9760 R 11009



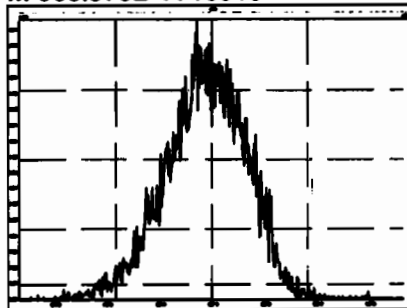
M 416.9760 R 10868



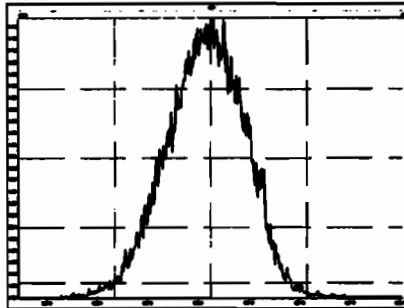
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, July 07, 2020 12:56:08 Pacific Daylight Time

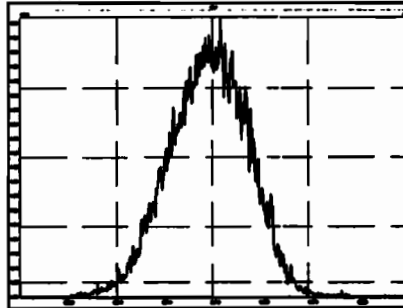
M 366.9792 R 10919



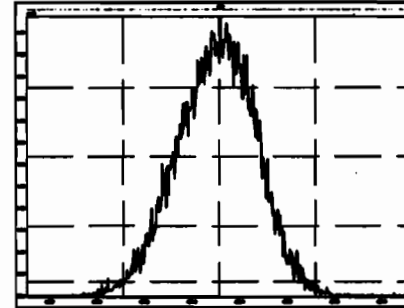
M 380.9760 R 10776



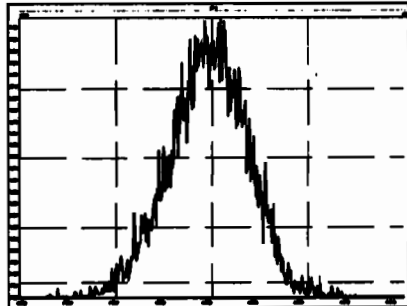
M 392.9760 R 10637



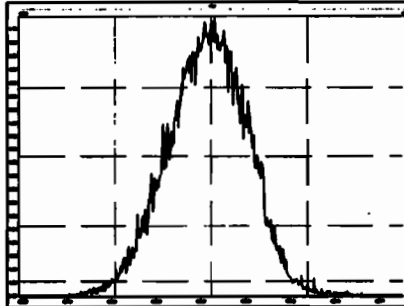
M 404.9760 R 10684



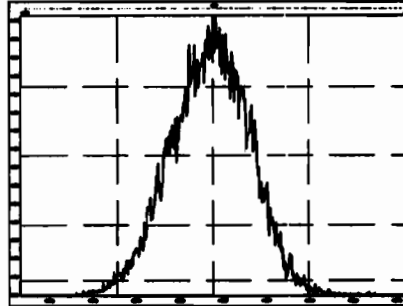
M 416.9760 R 10872



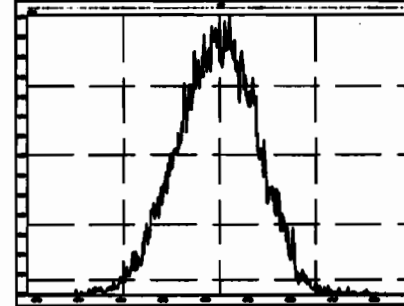
M 430.9728 R 10591



M 442.9728 R 10638



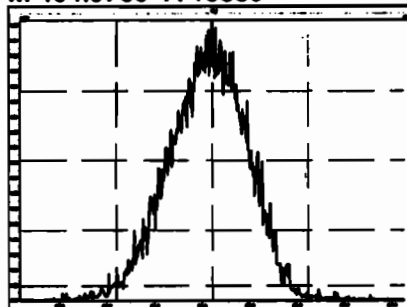
M 454.9728 R 11158



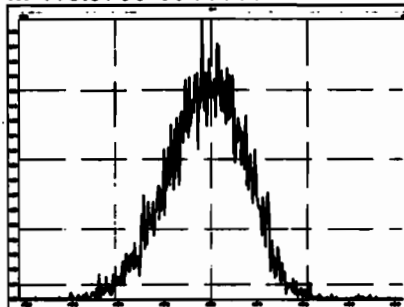
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, July 07, 2020 12:56:27 Pacific Daylight Time

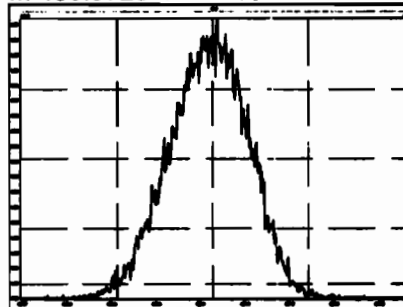
M 404.9760 R 10550



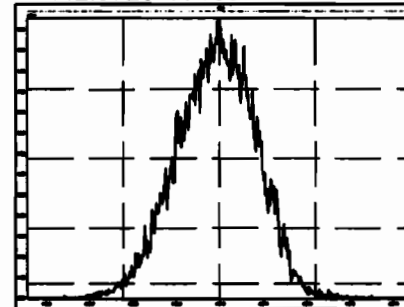
M 416.9760 R 11111



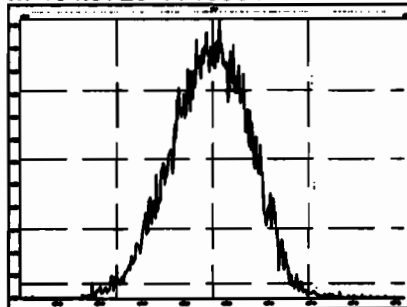
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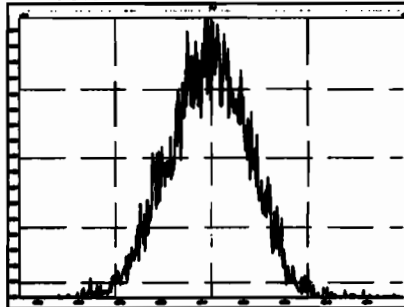
M 442.9728 R 10965



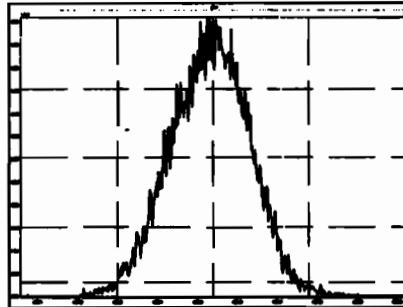
M 454.9728 R 10964



M 466.9728 R 10966



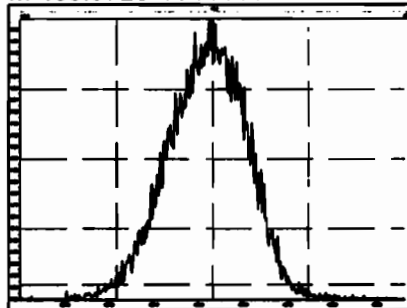
M 480.9696 R 10775



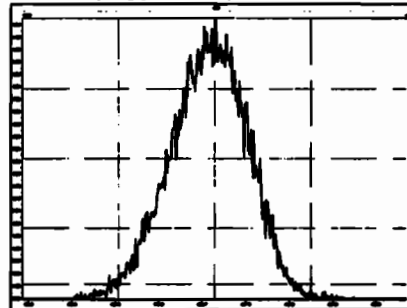
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, July 07, 2020 12:56:43 Pacific Daylight Time

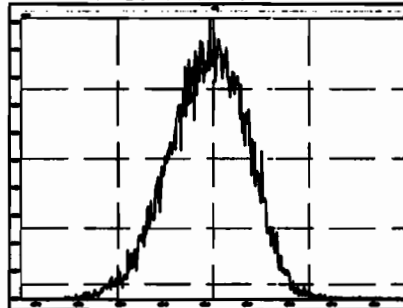
M 430.9728 R 11111



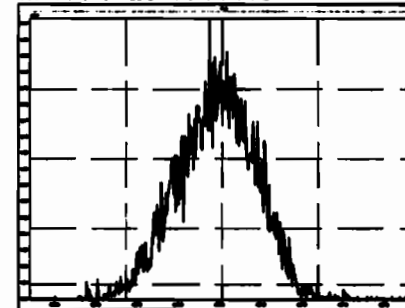
M 442.9728 R 11012



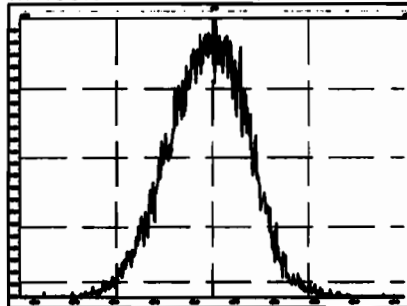
M 454.9728 R 11465



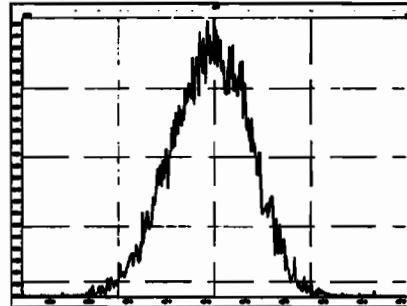
M 466.9728 R 11415



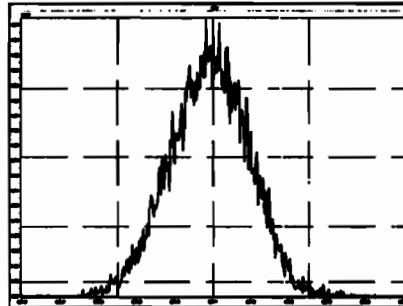
M 480.9696 R 11162



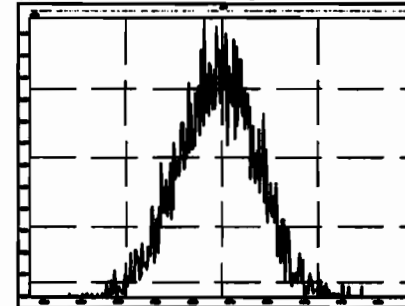
M 492.9696 R 10684



M 504.9696 R 11015



M 516.9697 R 11737



Dataset: Untitled

Last Altered: Tuesday, July 07, 2020 1:46:38 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 1:46:59 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\vb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	
1	1,3,6,8-TCDD (First)	22.44
2	1,2,8,9-TCDD (Last)	27.44
3	1,2,4,7,9-PeCDD (First)	29.22
4	1,2,3,8,9-PeCDD (Last)	31.83
5	1,2,4,6,7,9-HxCDD (First)	33.33
6	1,2,3,7,8,9-HxCDD (Last)	35.23
7	1,2,3,4,6,7,9-HpCDD (First)	37.78
8	1,2,3,4,6,7,8-HpCDD (Last)	38.79
9	1,3,6,8-TCDF (First)	20.33
10	1,2,8,9-TCDF (Last)	27.59
11	1,3,4,6,8-PeCDF (First)	27.55
12	1,2,3,8,9-PeCDF (Last)	32.09
13	1,2,3,4,6,8-HxCDF (First)	32.78
14	1,2,3,7,8,9-HxCDF (Last)	35.59
15	1,2,3,4,6,7,8-HpCDF (First)	37.38
16	1,2,3,4,7,8,9-HpCDF (Last)	39.33

Dataset: Untitled

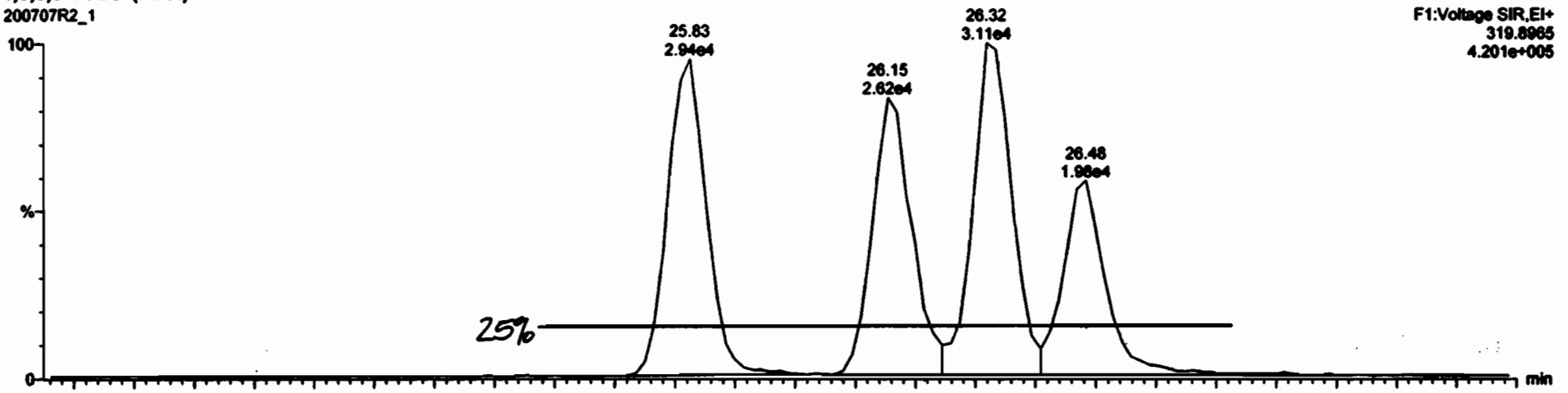
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GRB 07/07/2020

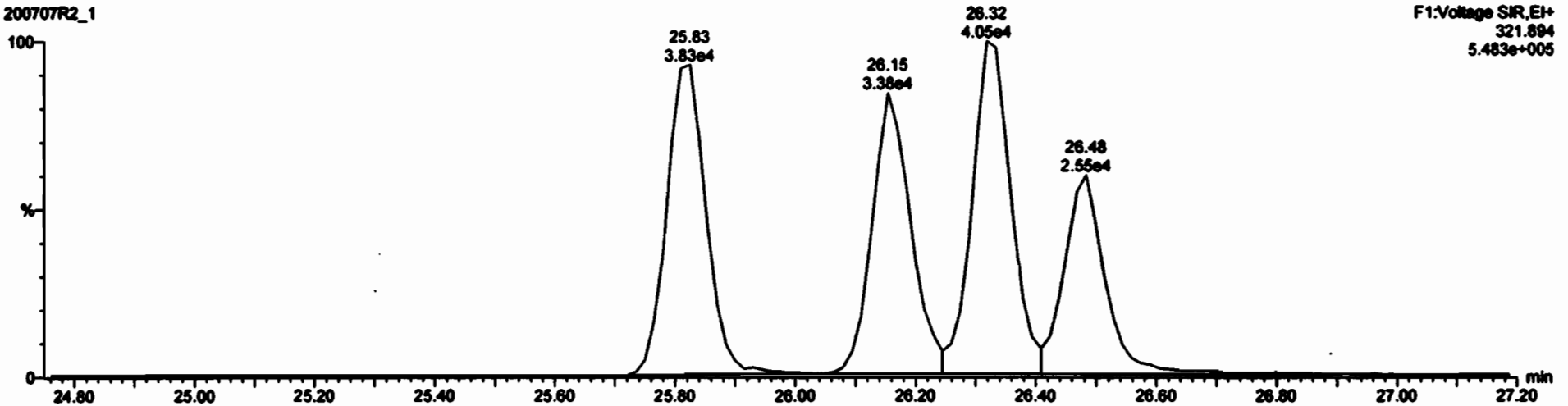
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200707R2_1



200707R2_1



Dataset: Untitled

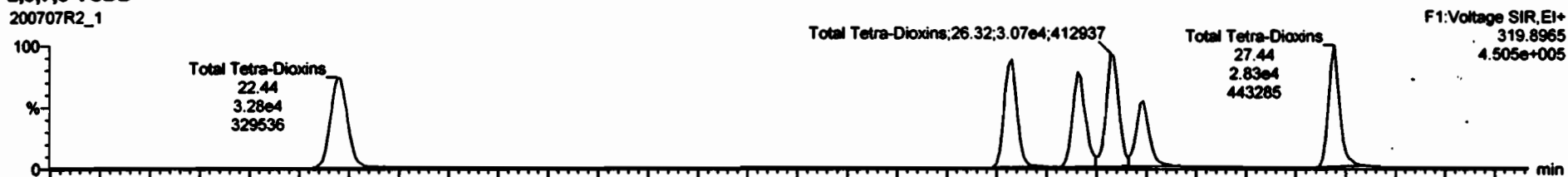
Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time
Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\1613_rtt-7-3-20.mdb 03 Jul 2020 12:13:21
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

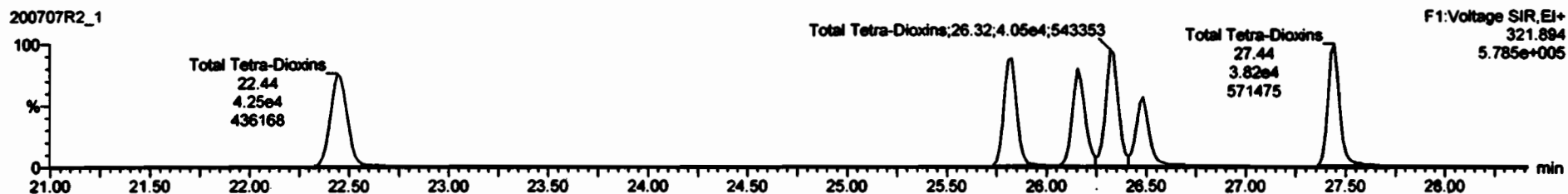
Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200707R2_1

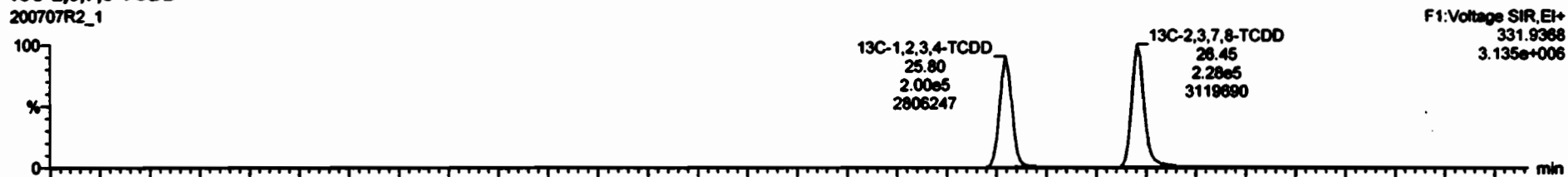


200707R2_1

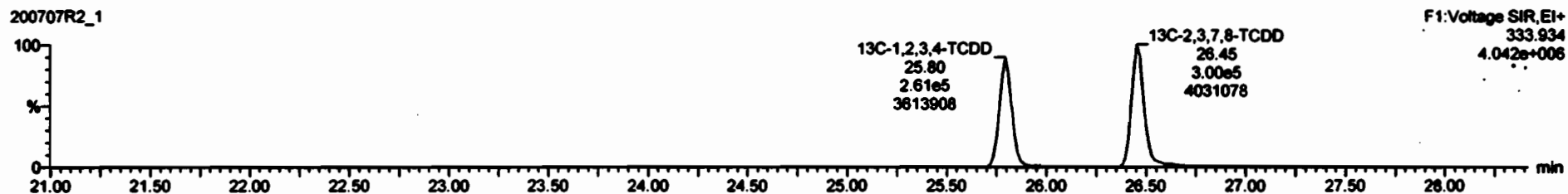


13C-2,3,7,8-TCDD

200707R2_1



200707R2_1

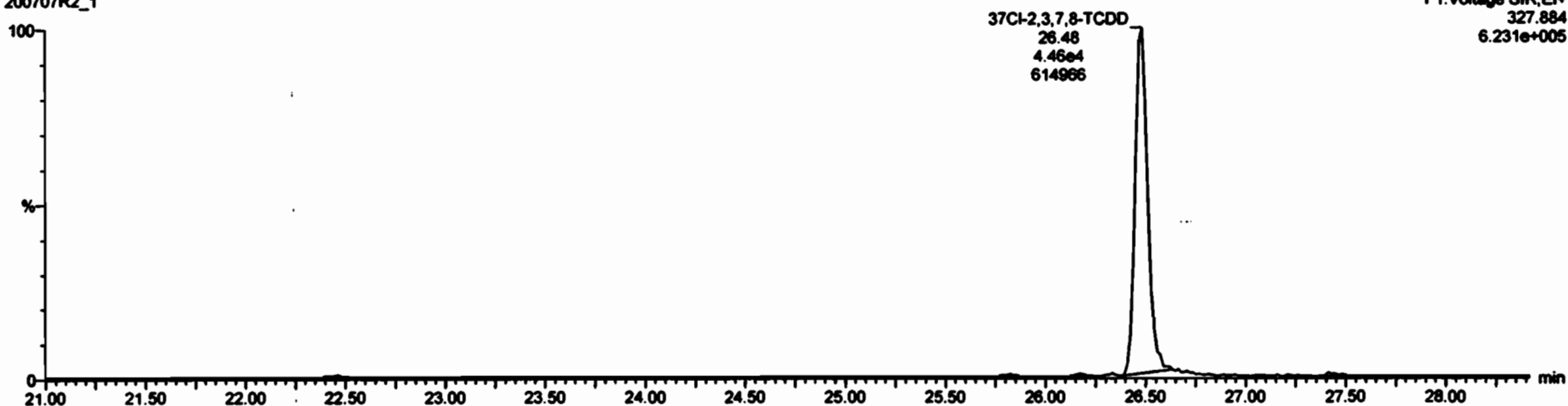


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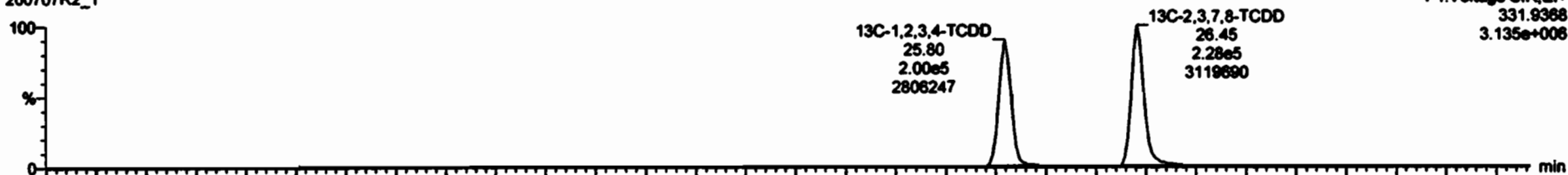
Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time
Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

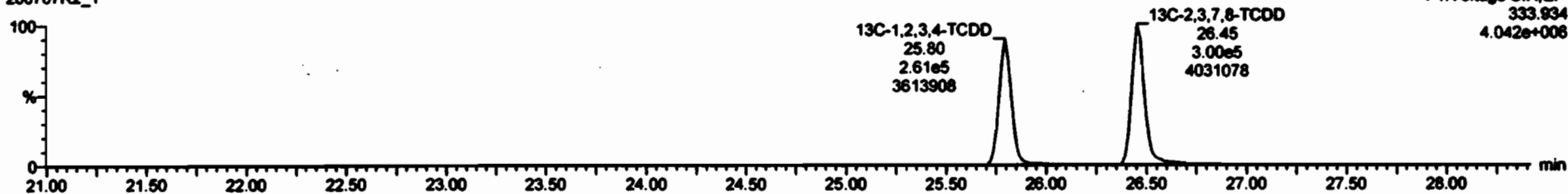
37Cl-2,3,7,8-TCDD
200707R2_1



13C-1,2,3,4-TCDD
200707R2_1



200707R2_1



Dataset: Untitled

Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

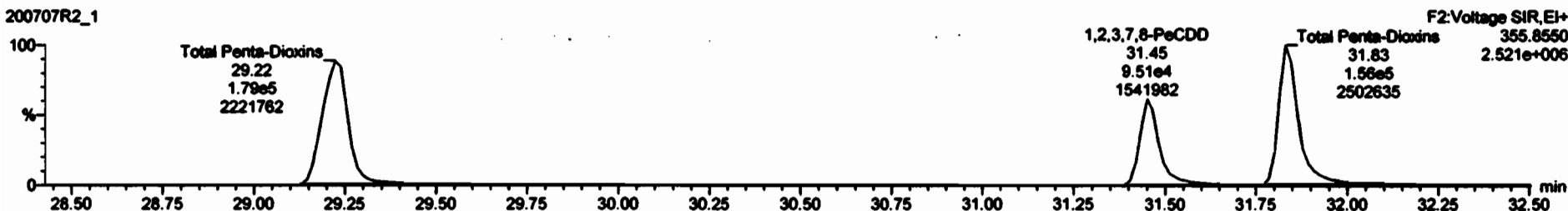
Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200707R2_1



200707R2_1

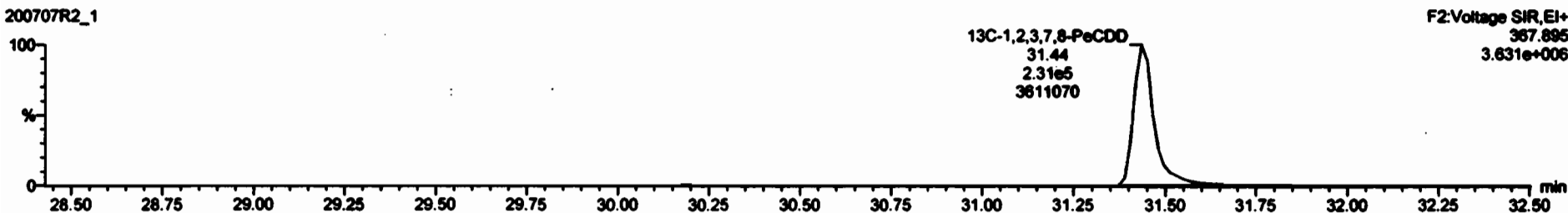


13C-1,2,3,7,8-PeCDD

200707R2_1



200707R2_1



Dataset: Untitled

Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

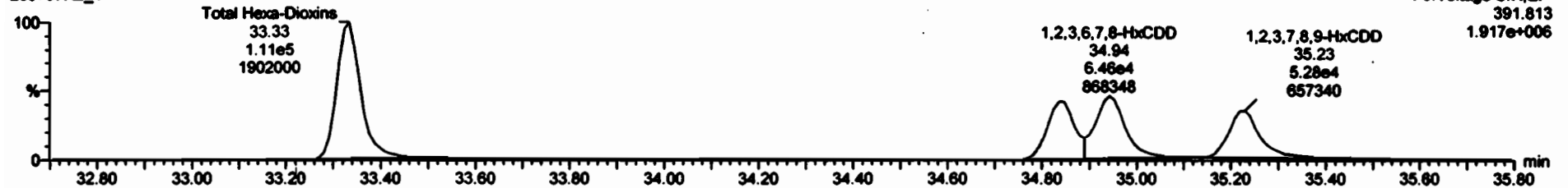
Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200707R2_1



200707R2_1

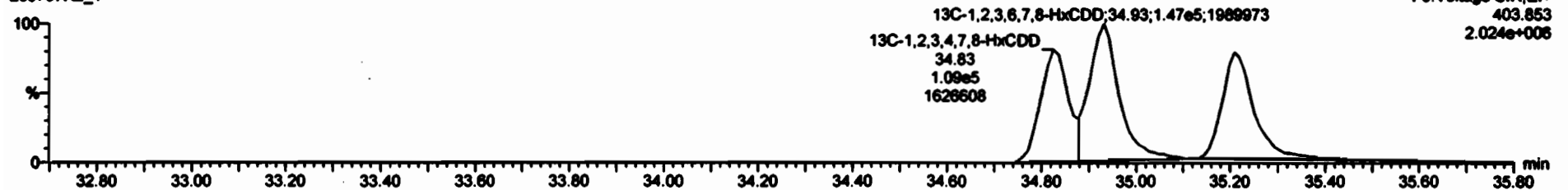


13C-1,2,3,4,7,8-HxCDD

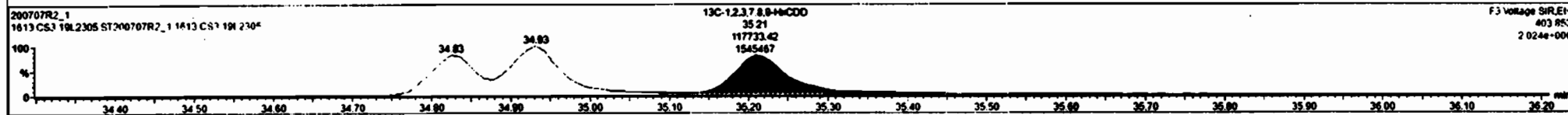
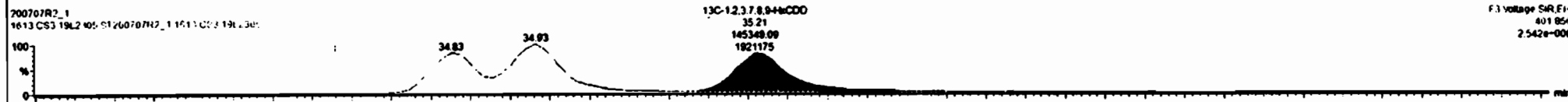
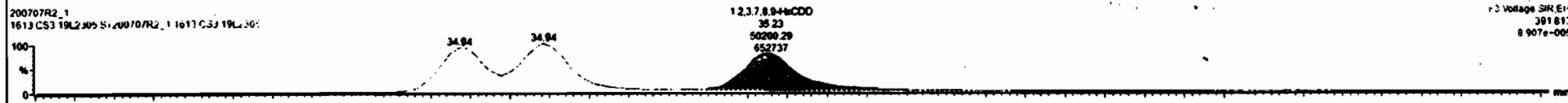
200707R2_1



200707R2_1



Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	
1	2.3,7,8-TCDD	4.48e4	5.28e5	0.77	0.72	NO	0.0003	28.48	28.48	NO	1.001	1.001	0.37	93.7	NO							
2	1,2,3,7,8-PeCDD	1.53e5	3.74e5	0.83	0.81	NO	0.0001	31.48	31.48	NO	1.001	1.000	45.9	96.1	NO							
3	1,2,3,4,7,8-HxCDD	1.18e5	2.47e5	1.24	1.25	NO	1.0334	34.84	34.84	NO	1.000	1.000	46.8	93.7	NO							
4	1,2,3,6,7,8-HxCDD	1.52e5	3.32e5	1.24	1.38	NO	0.0023	34.95	34.94	NO	1.000	1.000	51.5	103	NO							
6	1,2,3,4,6,7,8-HpCDD	8.94e4	2.18e5	1.04	1.01	NO	0.0030	36.78	36.79	NO	1.000	1.001	49.3	96.6	NO							
7	OCDD	1.74e5	3.81e5	0.88	0.88	NO	0.0130	41.78	41.78	NO	1.000	1.000	99.0	99.0	NO							
8	2,3,7,8-TCDF	4.32e4	6.45e5	0.77	0.74	NO	0.7510	28.99	25.59	NO	1.001	1.001	0.82	89.2	NO							
9	1,2,3,7,8-PeCDF	2.13e5	5.03e5	1.55	1.50	NO	0.0025	30.17	30.17	NO	1.001	1.001	47.4	94.8	NO							
10	2,3,4,7,8-PeCDF	2.13e5	4.78e5	1.55	1.54	NO	0.0348	31.15	31.15	NO	1.001	1.000	47.6	95.3	NO							
11	1,2,3,4,7,8-HxCDF	1.24e5	2.88e5	1.24	1.21	NO	0.0046	33.96	33.96	NO	1.000	1.000	48.8	97.1	NO							
12	1,2,3,6,7,8-HxCDF	1.57e5	3.50e5	1.24	1.22	NO	0.0002	34.88	34.88	NO	1.000	1.000	50.6	101	NO							
13	2,3,4,6,7,8-HxCDF	1.41e5	3.11e5	1.24	1.24	NO	0.0341	34.88	34.88	NO	1.001	1.000	48.8	97.3	NO							
14	1,2,3,7,8-HpCDF	1.88e5	2.48e5	1.24	1.22	NO	0.0787	35.88	35.98	NO	1.001	1.000	49.0	97.9	NO							
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5	1.04	0.99	NO	0.0734	37.40	37.38	NO	1.001	1.001	48.7	97.4	NO							
16	1,2,3,4,7,8,9-HxCDF	7.38e4	1.40e5	1.04	0.98	NO	1.0428	38.32	38.33	NO	1.000	1.000	52.0	104	NO							
17	OCDF	1.58e5	4.07e5	0.88	0.83	NO	0.0005	41.87	41.88	NO	1.000	1.000	95.4	95.4	NO							
18	13C-2,3,7,8-TCDD	5.28e5	4.82e5	0.77	0.76	NO	1.1583	28.45	28.45	NO	1.025	1.025	98.9	98.9	NO							
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.82e5	0.83	0.82	NO	0.0490	31.48	31.44	NO	1.219	1.219	95.4	95.4	NO							
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.88e5	1.24	1.28	NO	0.7700	34.82	34.83	NO	1.014	1.014	106	106	NO							
21	13C-1,2,3,6,7,8-HxCDD	3.32e5	2.90e5	1.24	1.25	NO	1.0167	34.92	34.93	NO	1.017	1.017	109	109	NO							



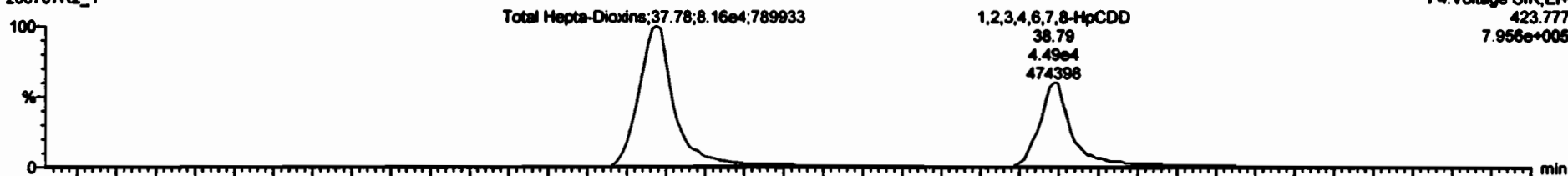
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Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time
Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

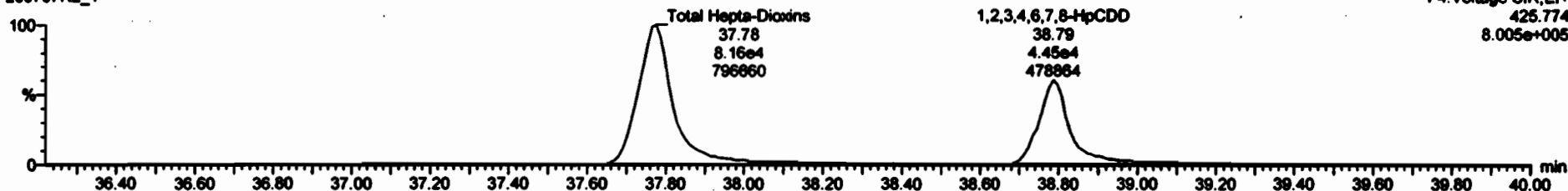
Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200707R2_1

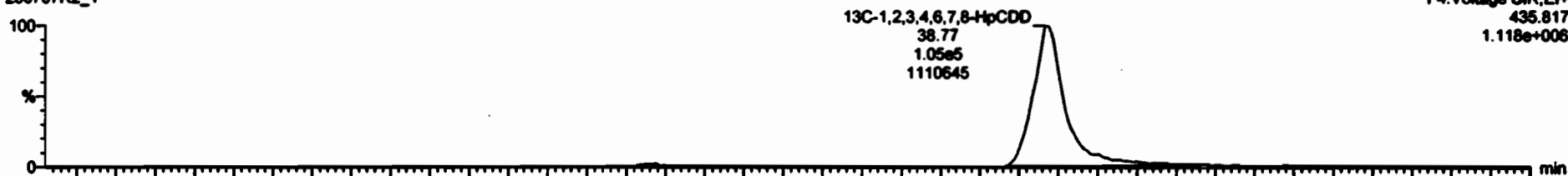


200707R2_1

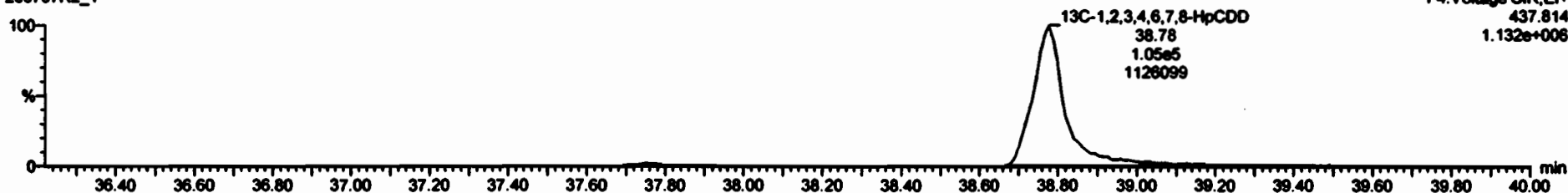


13C-1,2,3,4,6,7,8-HpCDD

200707R2_1



200707R2_1

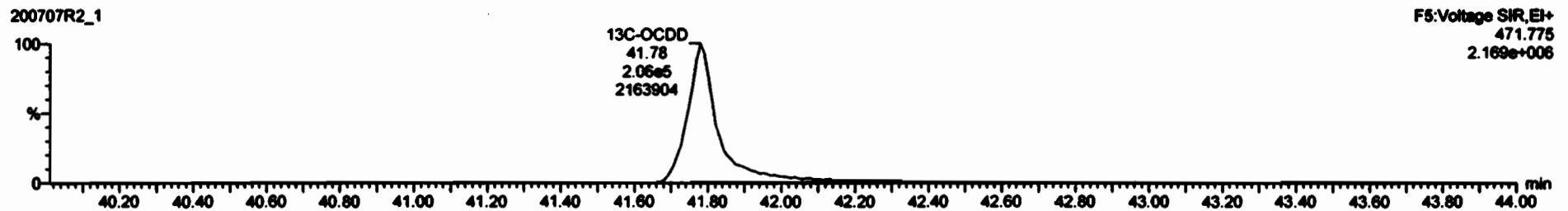
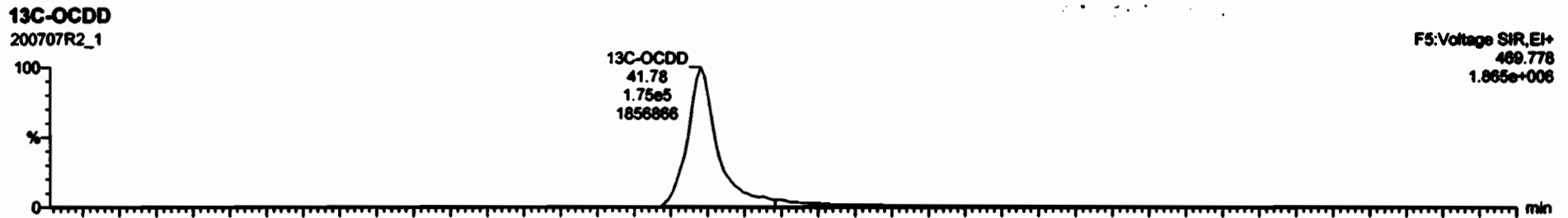
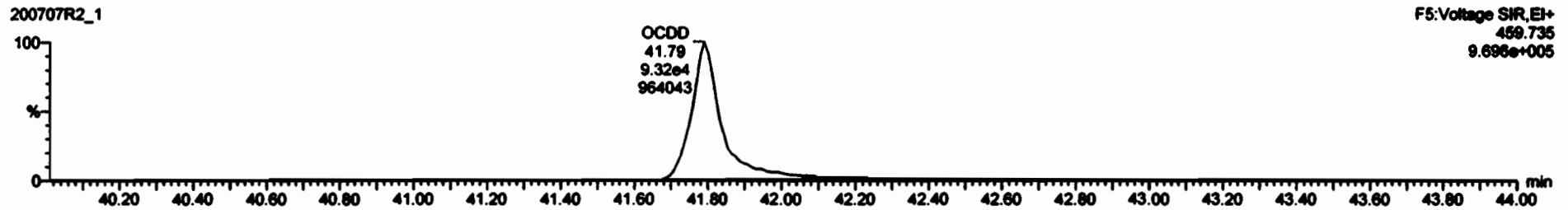
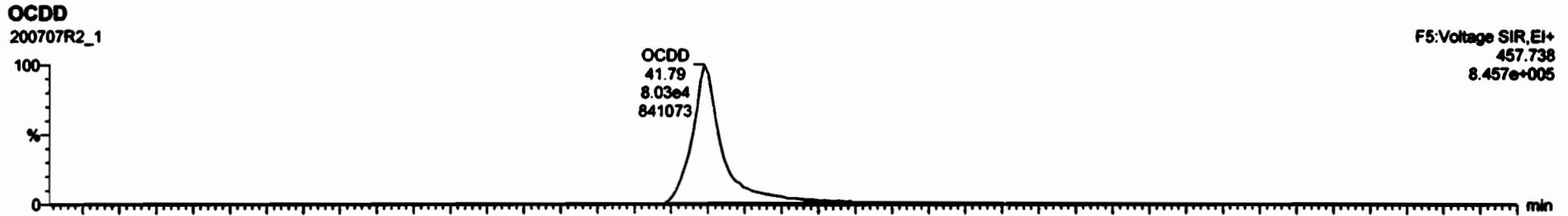


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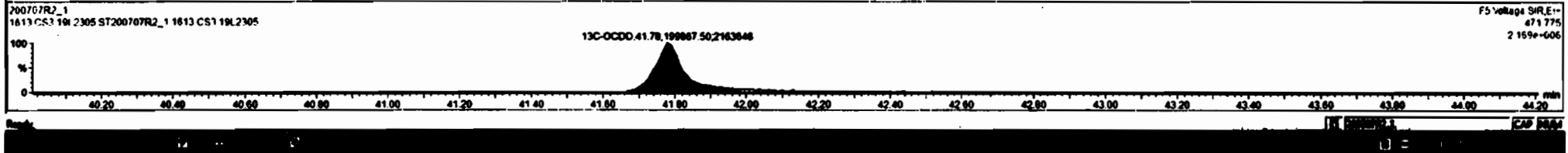
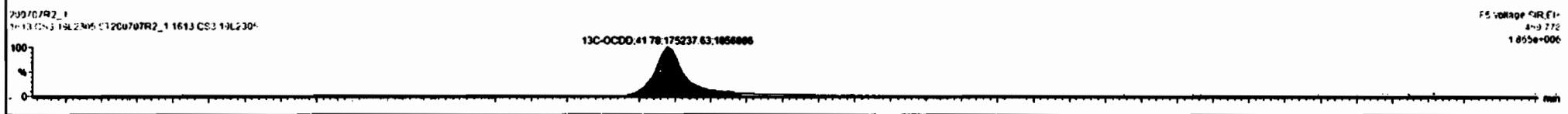
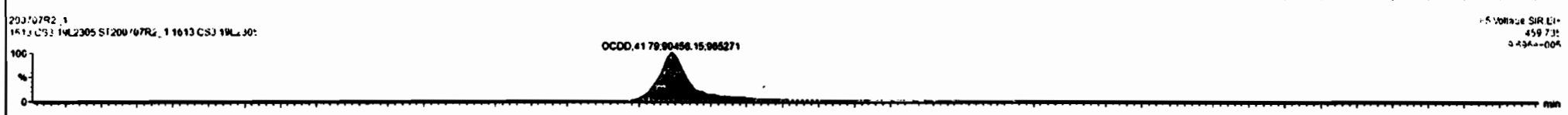
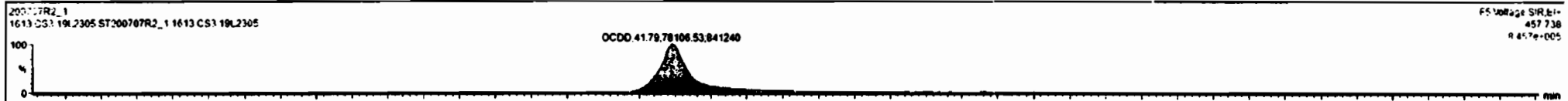
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Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



ID	Compound	Conc	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%
1	2,3,7,8-TCDF	4.40e4	5.28e5	0.77	0.72	NO	0.0003	28.48	28.48	NO	1.001	1.001	0.37	93.7
2	1,2,3,7,8-PeCDF	1.53e5	3.74e5	0.63	0.61	NO	0.0001	31.46	31.46	NO	1.001	1.000	45.0	90.1
3	1,2,3,4,7,8-HxCDF	1.18e5	2.47e5	1.24	1.25	NO	1.0304	34.84	34.84	NO	1.000	1.000	46.8	93.7
4	1,2,3,6,7,8-HxCDF	1.52e5	3.32e5	1.24	1.26	NO	0.0023	34.83	34.84	NO	1.000	1.000	51.5	103
5	1,2,3,7,8,9-HxCDF	1.11e5	2.83e5	1.24	1.21	NO	0.0000	35.24	35.23	NO	1.001	1.001	47.6	95.1
6	1,2,3,4,6,7,8-HpCDF	8.86e4	2.63e5	1.04	1.01	NO	0.0030	36.78	36.78	NO	1.000	1.001	48.7	97.4
7														
8	2,3,7,8-TCDF	4.32e4	6.45e5	0.77	0.74	NO	0.7510	25.69	25.59	NO	1.001	1.001	8.02	89.2
9	1,2,3,7,8-PeCDF	2.13e5	5.03e5	1.55	1.50	NO	0.0025	30.17	30.17	NO	1.001	1.001	47.4	94.8
10	2,3,4,7,8-PeCDF	2.13e5	4.78e5	1.55	1.54	NO	0.0048	31.15	31.15	NO	1.001	1.000	47.6	96.3
11	1,2,3,4,7,8-HxCDF	1.24e5	2.88e5	1.24	1.21	NO	0.0046	33.96	33.96	NO	1.000	1.000	48.6	97.1
12	1,2,3,6,7,8-HxCDF	1.57e5	3.50e5	1.24	1.22	NO	0.0002	34.08	34.08	NO	1.000	1.000	50.6	101
13	2,3,4,6,7,8-HxCDF	1.41e5	3.11e5	1.24	1.24	NO	0.0041	34.08	34.08	NO	1.001	1.000	48.6	97.3
14	1,2,3,7,8,9-HxCDF	1.06e5	2.49e5	1.24	1.22	NO	0.0007	35.90	35.50	NO	1.001	1.000	49.0	97.9
15	1,2,3,4,6,7,8-HpCDF	9.43e4	2.52e5	1.04	0.99	NO	0.0034	37.46	37.36	NO	1.001	1.001	48.7	97.4
16	1,2,3,4,7,8,9-HpCDF	7.38e4	1.40e5	1.04	0.98	NO	1.0126	39.32	39.33	NO	1.000	1.000	52.8	104
17	OCDF	1.56e5	4.07e5	0.80	0.83	NO	0.0005	41.97	41.98	NO	1.000	1.000	95.4	95.4
18	13C-2,3,7,8-TCDF	5.28e5	4.62e5	0.77	0.76	NO	1.1503	28.45	28.45	NO	1.025	1.028	99.0	99.0
19	13C-1,2,3,7,8-PeCDF	3.74e5	4.62e5	0.63	0.62	NO	0.0400	31.46	31.44	NO	1.219	1.219	95.4	95.4
20	13C-1,2,3,4,7,8-HxCDF	2.47e5	2.88e5	1.24	1.26	NO	8.7708	34.82	34.83	NO	1.014	1.014	106	106
21	13C-1,2,3,6,7,8-HxCDF	3.32e5	2.88e5	1.24	1.25	NO	1.0007	34.82	34.80	NO	1.017	1.017	100	100



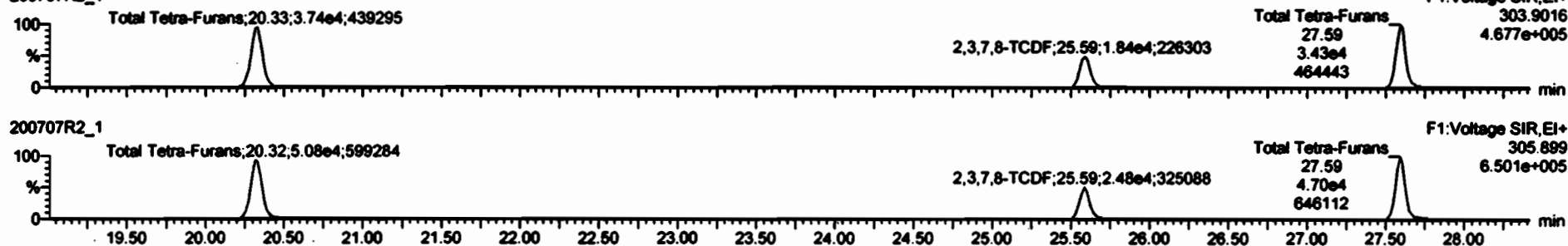
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Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

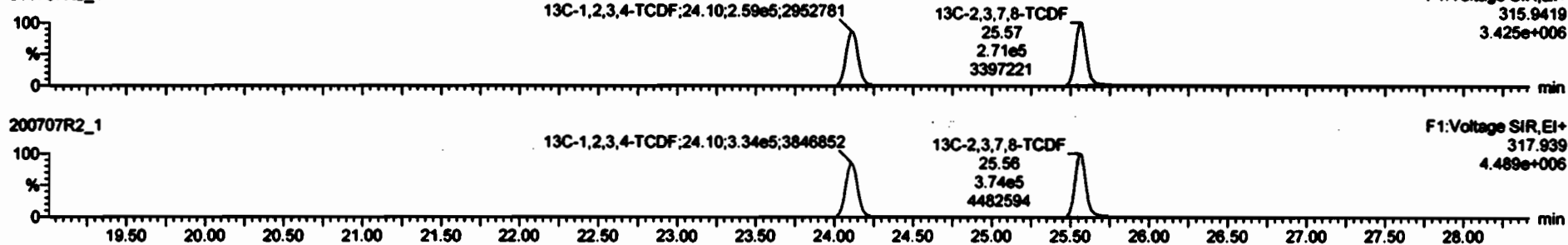
2,3,7,8-TCDF

200707R2_1



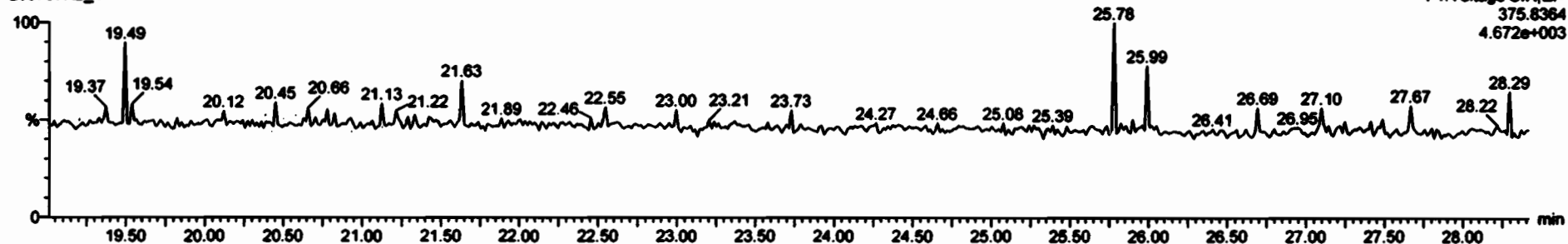
13C-2,3,7,8-TCDF

200707R2_1



DPE1

200707R2_1



Dataset: Untitled

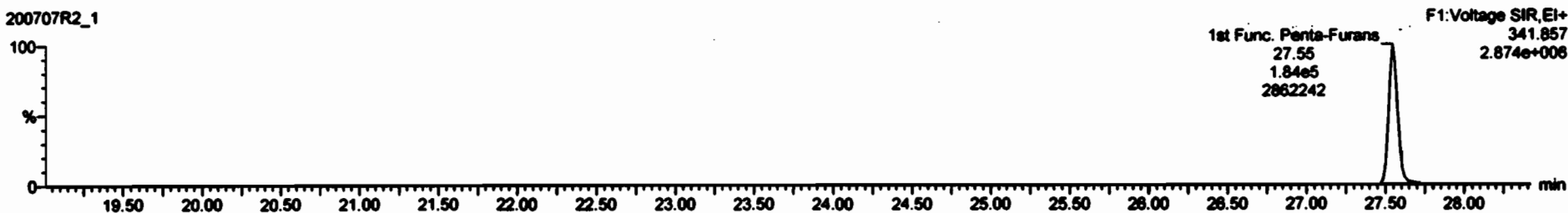
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Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans
200707R2_1

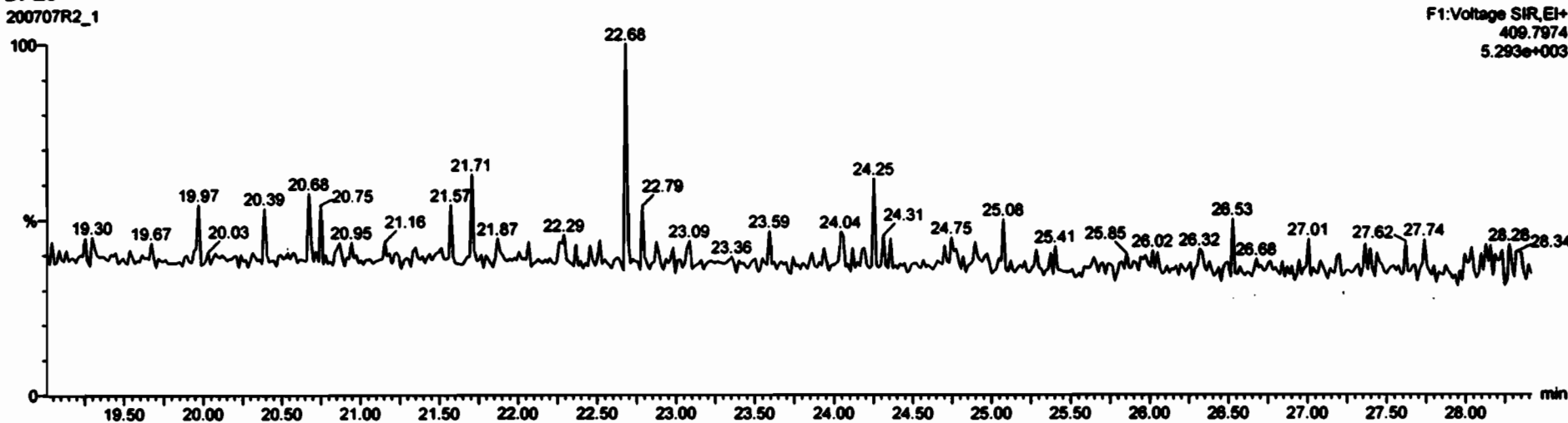


200707R2_1



DPES

200707R2_1

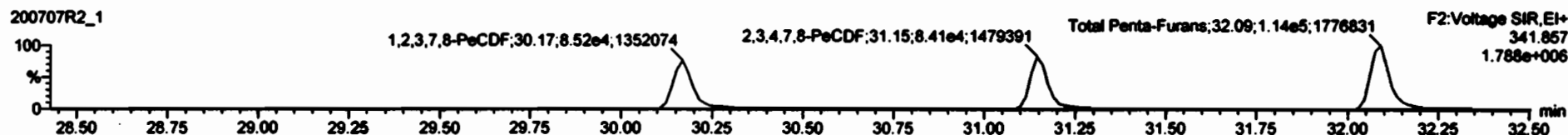
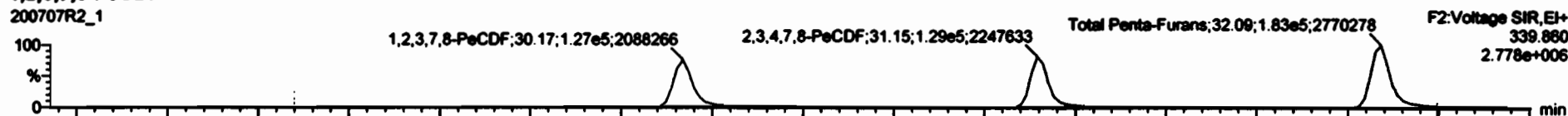


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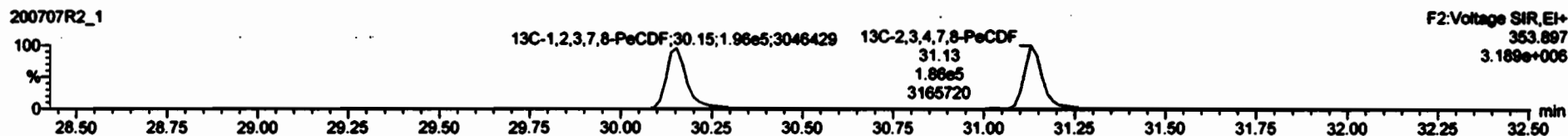
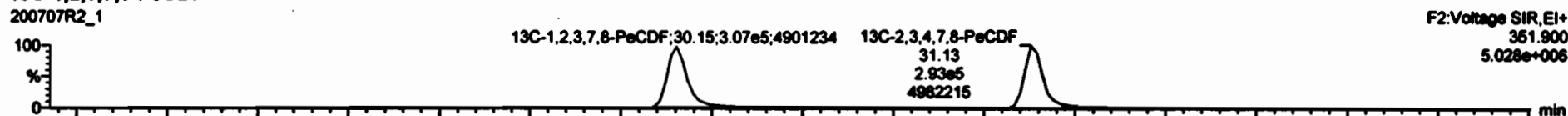
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Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

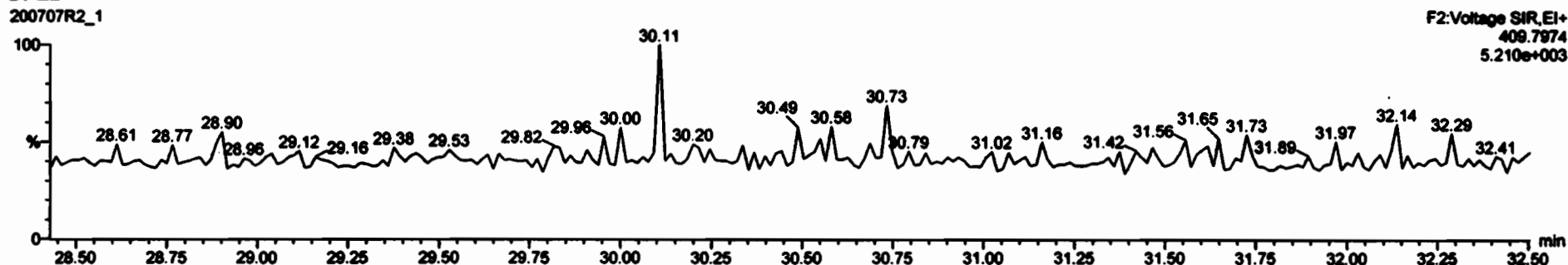
1,2,3,7,8-PeCDF



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



DPE2

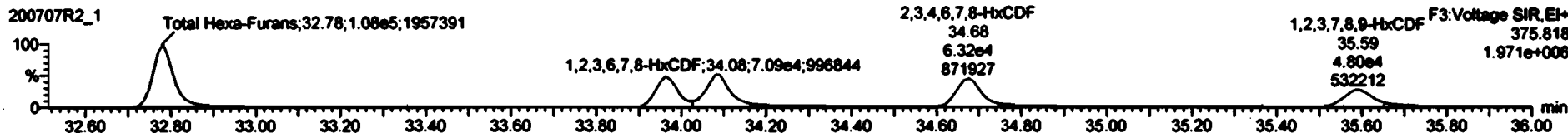
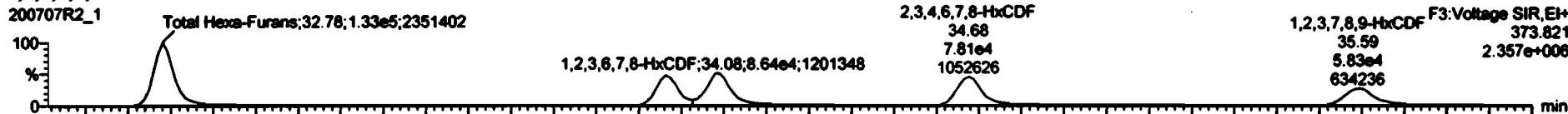


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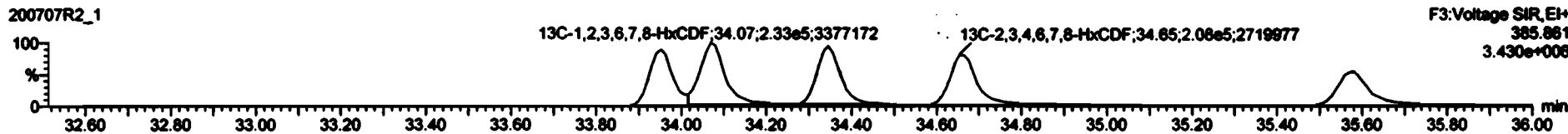
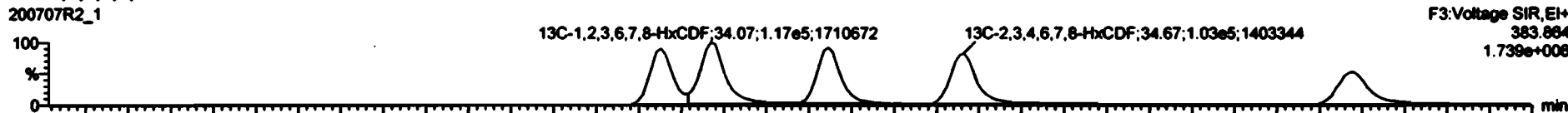
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Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

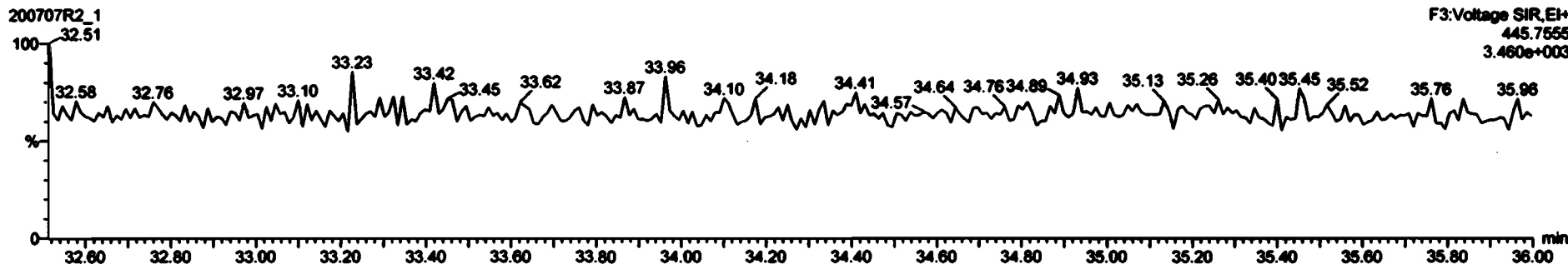
1,2,3,4,7,8-HxCDF



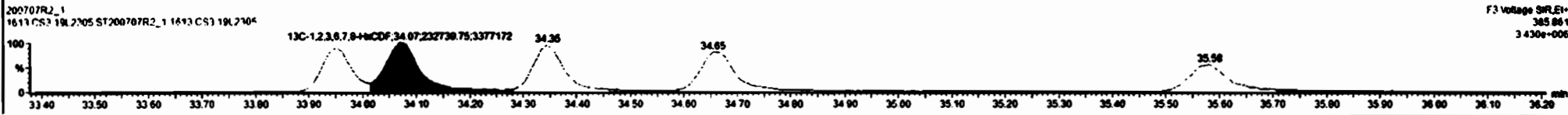
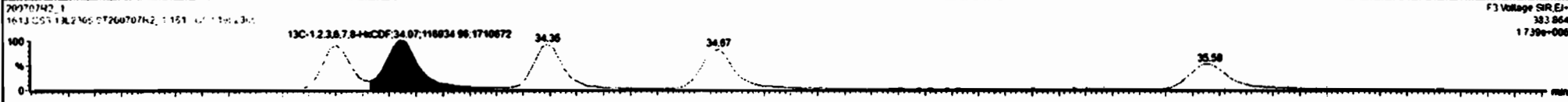
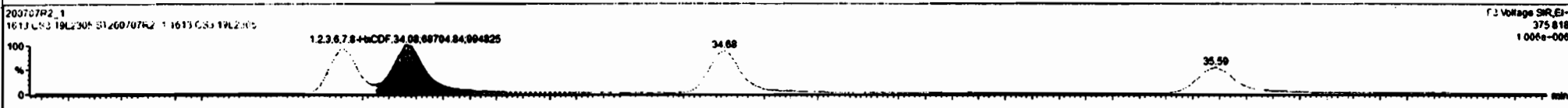
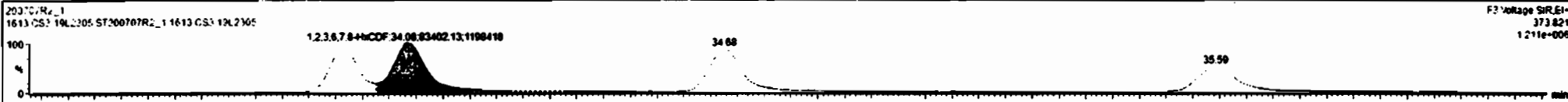
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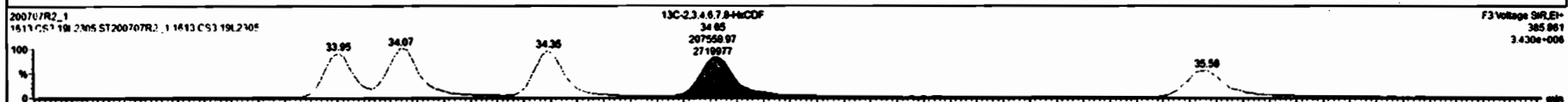
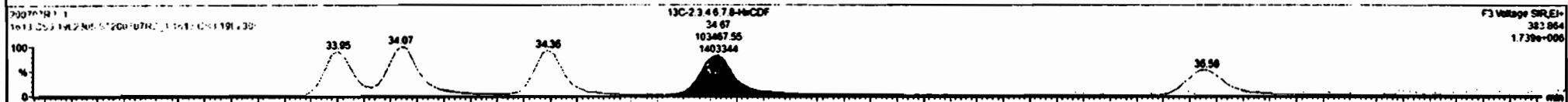
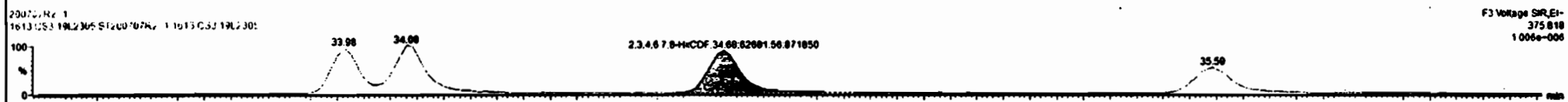
DPE3



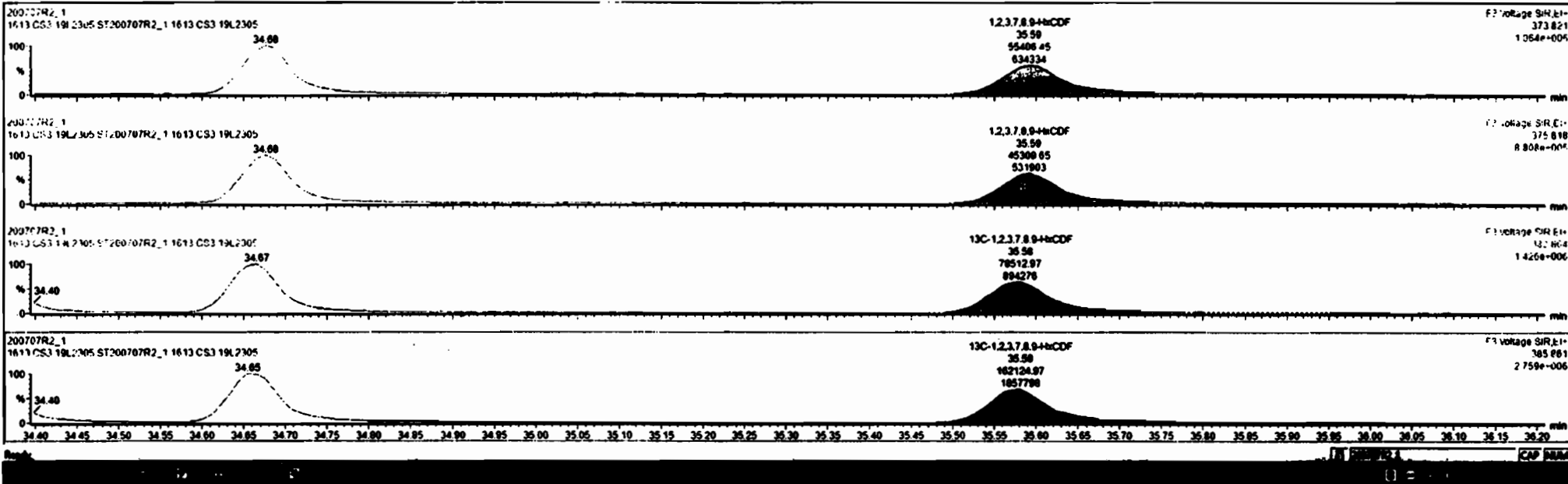
Peak	Retention	Area	Height	Width	Skew	Symmetry	Resolution	SN	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration
1	1.2,3,7,8-TCDD	4.48e4	5.28e5	0.77	0.72	NO	0.0083	28.48	28.48	NO	1.001	1.001	0.37	90.7	NO					
2	1,2,3,7,8-PeCDD	1.53e5	3.74e5	0.63	0.61	NO	0.0081	31.46	31.46	NO	1.001	1.000	45.0	90.1	NO					
3	1,2,3,4,7,8-HxCDD	1.10e5	2.47e5	1.24	1.25	NO	1.0334	34.84	34.84	NO	1.000	1.000	48.8	93.7	NO					
4	1,2,3,7,8,9-HxCDD	1.52e5	3.32e5	1.24	1.28	NO	0.0023	34.93	34.94	NO	1.000	1.000	51.5	103	NO					
5	1,2,3,7,8,9-HxCDF	1.11e5	2.63e5	1.24	1.21	NO	0.0000	35.24	35.23	NO	1.001	1.001	47.6	95.1	NO					
6	1,2,3,4,6,7,8-HpCDD	8.55e4	2.03e5	1.04	1.01	NO	0.0030	36.78	36.79	NO	1.000	1.001	48.7	97.4	NO					
7	OCDD	1.00e5	3.75e5	0.80	0.80	NO	0.9130	41.78	41.79	NO	1.000	1.000	98.4	98.4	NO					
8	2,3,7,8-TCDF	4.32e4	8.45e5	0.77	0.74	NO	0.7510	25.08	25.08	NO	1.001	1.001	8.82	89.2	NO					
9	1,2,3,7,8-PeCDF	2.13e5	6.03e5	1.55	1.50	NO	0.0025	30.17	30.17	NO	1.001	1.001	47.4	94.8	NO					
10	2,3,4,7,8-PeCDF	2.13e5	4.70e5	1.55	1.54	NO	0.9348	31.15	31.15	NO	1.001	1.000	47.6	95.3	NO					
11	1,2,3,4,7,8-HxCDF	1.24e5	2.88e5	1.24	1.21	NO	0.0046	33.86	33.86	NO	1.000	1.000	48.6	97.1	NO					
12																				
13	2,3,4,6,7,8-HpCDF	1.41e5	3.11e5	1.24	1.24	NO	0.9341	34.68	34.68	NO	1.001	1.000	48.6	97.3	NO					
14	1,2,3,7,8,9-HxCDF	1.06e5	2.40e5	1.24	1.22	NO	0.0707	35.60	35.59	NO	1.001	1.000	49.9	97.9	NO					
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5	1.04	0.99	NO	0.8734	37.40	37.38	NO	1.001	1.001	48.7	97.4	NO					
16	1,2,3,4,7,8,9-HpCDF	7.38e4	1.40e5	1.04	0.98	NO	1.0128	39.32	39.33	NO	1.000	1.000	52.0	104	NO					
17	OCDF	1.50e5	4.07e5	0.80	0.83	NO	0.0005	41.87	41.86	NO	1.000	1.000	95.4	95.4	NO					
18	13C-2,3,7,8-TCDD	5.28e5	4.62e5	0.77	0.76	NO	1.1580	28.45	28.46	NO	1.025	1.028	99.0	99.0	NO					
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.62e5	0.63	0.62	NO	0.8480	31.46	31.44	NO	1.219	1.219	95.4	95.4	NO					
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.96e5	1.24	1.28	NO	0.7780	34.82	34.83	NO	1.014	1.014	106	106	NO					
21	13C-1,2,3,6,7,8-HxCDD	3.52e5	2.96e5	1.24	1.25	NO	1.0167	34.82	34.83	NO	1.017	1.017	109	109	NO					



Comp	Wt%	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
1	2,3,7,8-TCDD	4.46e4	5.28e5	0.77	0.72	NO	0.0003	28.48	28.48	NO	1.001	1.001	0.37	83.7	NO				
2	1,2,3,7,8-PeCDD	1.53e5	3.74e6	0.63	0.61	NO	0.0001	31.46	31.46	NO	1.001	1.000	45.0	99.1	NO				
3	1,2,3,4,7,8-HxCDD	1.19e5	2.47e5	1.24	1.25	NO	1.0334	34.84	34.84	NO	1.000	1.000	46.8	93.7	NO				
4	1,2,3,6,7,8-HxCDD	1.52e5	3.33e5	1.24	1.26	NO	0.0023	34.93	34.94	NO	1.000	1.000	51.5	103	NO				
5	1,2,3,7,8-HxCDD	1.11e5	2.63e5	1.24	1.21	NO	0.0009	35.24	35.23	NO	1.001	1.001	47.6	95.1	NO				
6	1,2,3,4,6,7,8-HpCDD	8.95e4	2.93e5	1.04	1.01	NO	0.0030	36.78	36.79	NO	1.000	1.001	46.7	97.4	NO				
7	OCDD	1.09e5	3.75e5	0.89	0.88	NO	0.0136	41.78	41.78	NO	1.000	1.000	96.4	98.4	NO				
8	2,3,7,8-TCDF	4.32e4	6.45e5	0.77	0.74	NO	0.0710	25.80	25.56	NO	1.001	1.001	8.82	89.2	NO				
9	1,2,3,7,8-PeCDF	2.13e5	5.03e5	1.55	1.50	NO	0.0025	36.17	36.17	NO	1.001	1.001	47.4	94.8	NO				
10	2,3,6,7,8-PeCDF	2.13e5	4.79e5	1.55	1.54	NO	0.0048	31.15	31.15	NO	1.001	1.000	47.8	95.3	NO				
11	1,2,3,4,7,8-HxCDF	1.24e5	2.88e5	1.24	1.21	NO	0.0045	33.95	33.98	NO	1.000	1.000	48.6	97.1	NO				
12	1,2,3,6,7,8-HxCDF	1.52e5	3.50e5	1.24	1.21	NO	0.0002	34.88	34.88	NO	1.000	1.000	48.9	97.8	NO				
14	1,2,3,7,8-HxCDF	1.06e5	2.49e5	1.24	1.22	NO	0.0707	35.90	35.90	NO	1.001	1.000	49.8	97.9	NO				
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5	1.04	0.99	NO	0.0734	37.40	37.38	NO	1.001	1.001	48.7	97.4	NO				
16	1,2,3,4,7,8,9-HxCDF	7.38e4	1.40e5	1.04	0.98	NO	1.0126	39.32	39.33	NO	1.000	1.000	52.0	104	NO				
17	OCDF	1.56e5	4.07e5	0.80	0.83	NO	0.0005	41.97	41.98	NO	1.000	1.000	95.4	95.4	NO				
18	13C-2,3,7,8-TCDD	5.28e5	4.82e5	0.77	0.76	NO	1.1983	28.45	28.46	NO	1.025	1.028	99.8	99.8	NO				
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.62e5	0.63	0.62	NO	0.8489	31.46	31.44	NO	1.219	1.219	95.4	95.4	NO				
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.99e5	1.24	1.26	NO	0.7798	34.82	34.83	NO	1.014	1.014	106	106	NO				
21	13C-1,2,3,6,7,8-HxCDD	3.32e5	2.99e5	1.24	1.25	NO	1.0707	34.82	34.90	NO	1.017	1.017	109	109	NO				



NO	NAME	CONC	UNIT	REMARKS	DATE	TIME	LAB	ANALYST	REMARKS	DATE	TIME	LAB	ANALYST	REMARKS	DATE	TIME	LAB	ANALYST	REMARKS		
1	2,3,7,8-TCDD	4.40e4	5.20e5	0.77	0.72	NO	0.0003	28.48	28.48	NO	1.001	1.001	0.37	93.7	NO						
2	1,2,3,7,8-PeCDD	1.63e5	3.74e5	0.63	0.61	NO	0.0001	31.46	31.46	NO	1.001	1.000	45.8	96.1	NO						
3	1,2,3,4,7,8-HxCDD	1.10e5	2.47e5	1.24	1.25	NO	1.0334	34.84	34.84	NO	1.000	1.000	46.8	93.7	NO						
4	1,2,3,6,7,8-HxCDD	1.52e5	3.52e5	1.24	1.36	NO	0.0023	34.93	34.94	NO	1.000	1.000	51.5	103	NO						
5	1,2,3,7,8,9-HxCDD	1.11e5	2.63e5	1.24	1.21	NO	0.0009	35.24	35.23	NO	1.001	1.001	47.6	95.1	NO						
6	1,2,3,4,6,7,8-HpCDD	8.95e4	2.03e5	1.84	1.01	NO	0.0030	36.78	36.79	NO	1.000	1.001	46.7	97.4	NO						
7	OCDD	1.00e5	3.75e5	0.80	0.80	NO	0.9136	41.78	41.79	NO	1.000	1.000	96.4	96.4	NO						
8	2,3,7,8-TCDF	4.32e4	6.48e5	0.77	0.74	NO	0.7519	25.88	25.58	NO	1.001	1.001	8.82	88.2	NO						
9	1,2,3,7,8-PeCDF	2.13e5	5.03e5	1.50	1.50	NO	0.0025	30.17	30.17	NO	1.001	1.001	47.4	94.8	NO						
10	2,3,4,7,8-PeCDF	2.13e5	4.70e5	1.55	1.54	NO	0.9348	31.15	31.15	NO	1.001	1.000	47.8	95.3	NO						
11	1,2,3,4,7,8-HxCDF	1.24e5	2.98e5	1.24	1.21	NO	0.0045	33.98	33.98	NO	1.000	1.000	48.8	97.1	NO						
12	1,2,3,6,7,8-HxCDF	1.52e5	3.50e5	1.24	1.21	NO	0.0082	34.08	34.08	NO	1.000	1.000	48.9	97.8	NO						
13	2,3,4,6,7,8-HxCDF	1.30e5	3.11e5	1.24	1.22	NO	0.9341	34.80	34.80	NO	1.001	1.000	47.8	95.7	NO						
14																					
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5	1.84	0.90	NO	0.8734	37.48	37.38	NO	1.001	1.001	48.7	97.4	NO						
16	1,2,3,4,7,8,9-HpCDF	7.38e4	1.40e5	1.04	0.98	NO	1.0128	38.32	38.33	NO	1.000	1.000	52.0	104	NO						
17	OCDF	1.90e5	4.87e5	0.80	0.83	NO	0.0005	41.87	41.88	NO	1.000	1.000	95.4	95.4	NO						
18	13C-2,3,7,8-TCDD	5.20e5	4.62e5	0.77	0.78	NO	1.1580	28.45	28.45	NO	1.025	1.028	98.0	98.0	NO						
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.62e5	0.63	0.62	NO	0.8490	31.46	31.44	NO	1.219	1.219	95.4	95.4	NO						
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.98e5	1.24	1.26	NO	0.7780	34.82	34.83	NO	1.014	1.014	106	106	NO						
21	13C-1,2,3,6,7,8-HxCDD	3.52e5	2.98e5	1.24	1.25	NO	1.0167	34.92	34.93	NO	1.017	1.017	100	100	NO						



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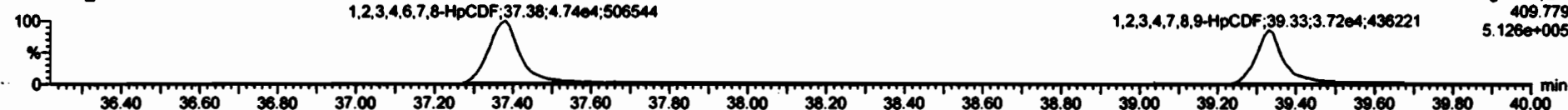
Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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200707R2_1



200707R2_1

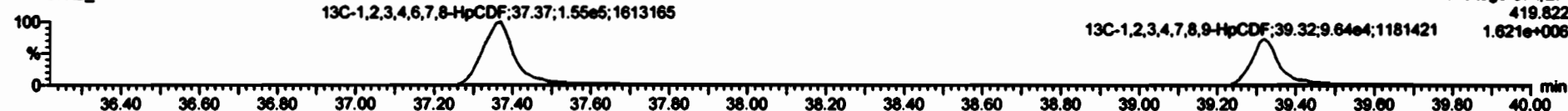


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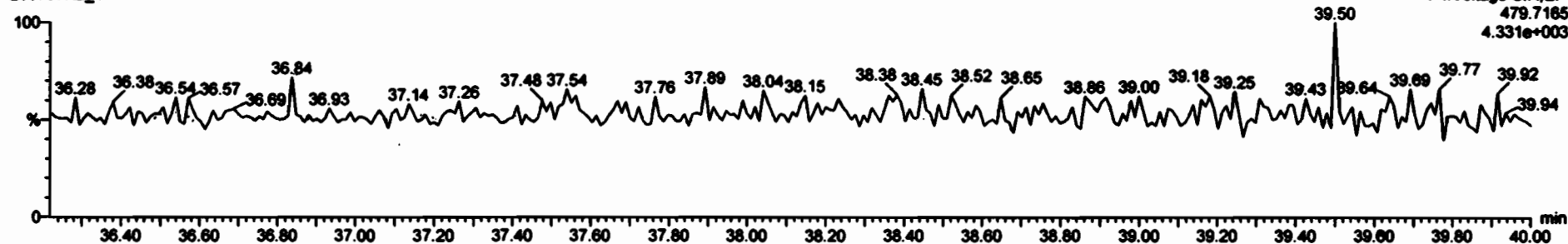


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DPE4

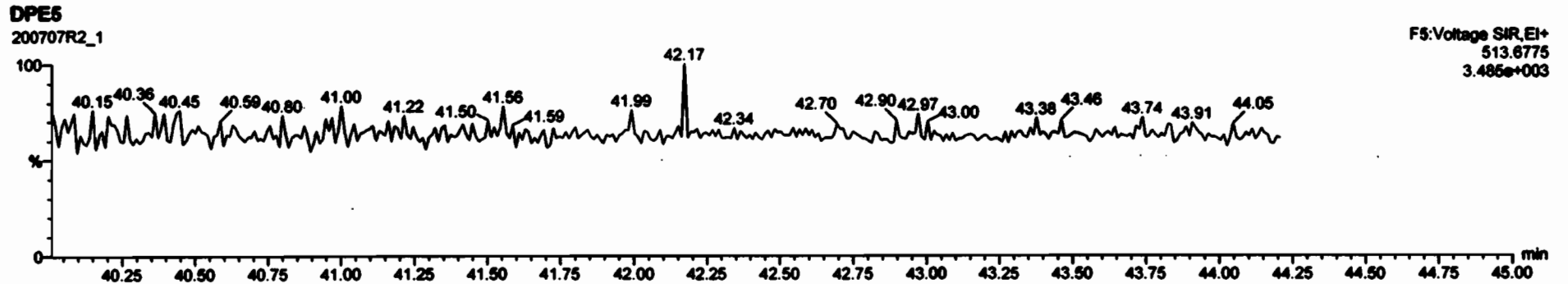
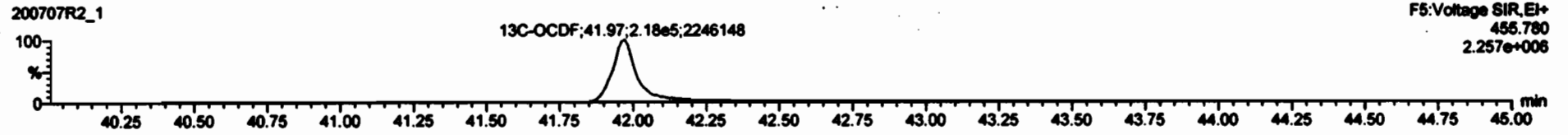
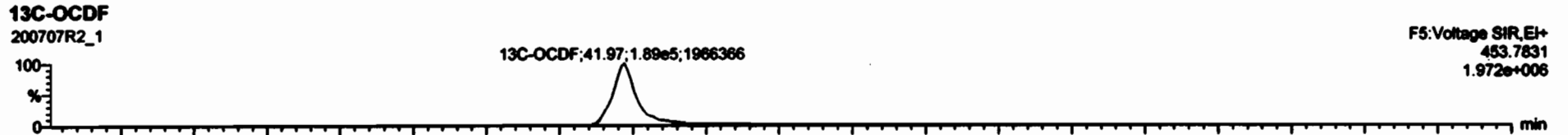
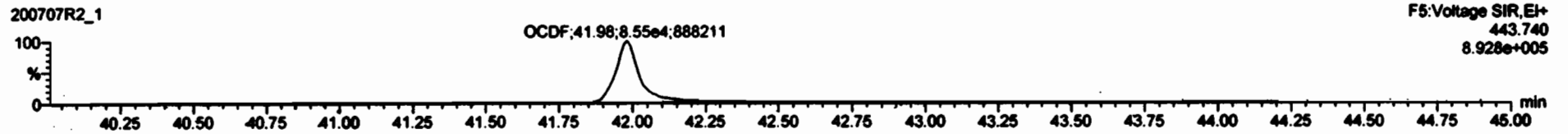
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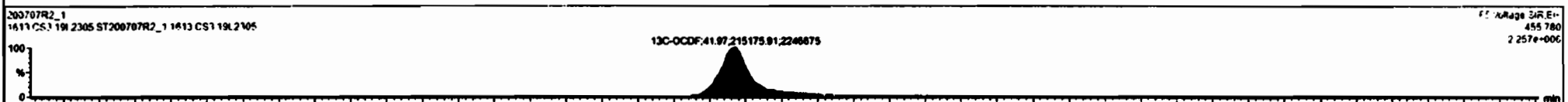
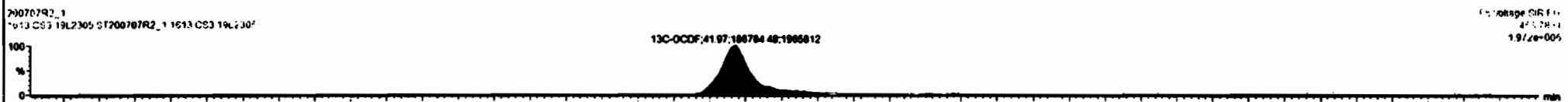
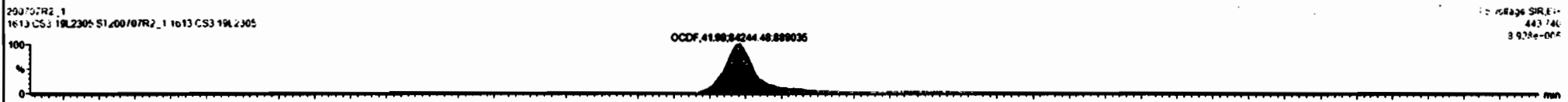
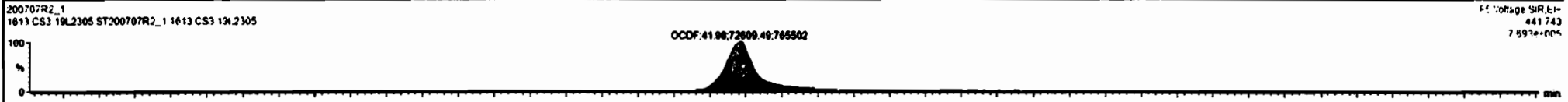
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Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



NO	CONCENTRATION	AMOUNT	QTY	UNIT	WGT	WGT	NO	CONCENTRATION	AMOUNT	QTY	UNIT	WGT	WGT	NO	CONCENTRATION	AMOUNT	QTY	UNIT
1	2,3,7,8-TCDD	4.48e4	5.28e5	0.77	0.72	NO	0.0003	28.48	28.48	NO	1.001	1.001	0.37	93.7	NO			
2	1,2,3,7,8-PeCDD	1.53e5	3.74e5	0.63	0.61	NO	0.0001	31.48	31.45	NO	1.001	1.000	46.0	96.1	NO			
3	1,2,3,4,7,8-HxCDD	1.19e5	2.47e5	1.24	1.25	NO	1.0334	34.84	34.84	NO	1.000	1.000	46.8	93.7	NO			
4	1,2,3,6,7,8-HxCDD	1.52e5	3.32e5	1.24	1.38	NO	0.0023	34.93	34.94	NO	1.000	1.000	51.3	103	NO			
5	1,2,3,7,8,9-HxCDD	1.11e5	2.63e5	1.24	1.21	NO	0.0000	35.34	35.23	NO	1.001	1.001	47.6	95.1	NO			
6	1,2,3,4,6,7,8-HpCDD	0.56e4	2.03e5	1.04	1.01	NO	0.0030	38.79	38.79	NO	1.000	1.001	48.7	97.4	NO			
7	OCDD	1.09e5	3.75e5	0.80	0.80	NO	0.0136	41.78	41.79	NO	1.000	1.000	98.4	98.4	NO			
8	2,3,7,8-TCDF	4.32e4	8.48e5	0.77	0.74	NO	0.07510	25.00	25.50	NO	1.001	1.001	0.82	88.2	NO			
9	1,2,3,7,8-PeCDF	2.13e5	5.03e5	1.55	1.50	NO	0.0025	38.17	38.17	NO	1.001	1.001	47.4	94.8	NO			
10	2,3,4,7,8-PeCDF	2.13e5	4.70e5	1.55	1.54	NO	0.0048	31.15	31.15	NO	1.001	1.000	47.6	95.3	NO			
11	1,2,3,4,7,8-HxCDF	1.24e5	2.80e5	1.24	1.21	NO	0.0045	33.86	33.86	NO	1.000	1.000	46.8	97.1	NO			
12	1,2,3,6,7,8-HxCDF	1.52e5	3.50e5	1.24	1.21	NO	0.0002	34.00	34.00	NO	1.000	1.000	46.9	97.8	NO			
13	2,3,4,6,7,8-HxCDF	1.30e5	3.11e5	1.24	1.22	NO	0.0341	34.00	34.00	NO	1.001	1.000	47.8	95.7	NO			
14	1,2,3,7,8,9-HxCDF	1.01e5	2.41e5	1.24	1.22	NO	0.0707	35.00	35.50	NO	1.001	1.000	48.1	96.1	NO			
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5	1.04	0.99	NO	0.0734	37.40	37.30	NO	1.001	1.001	48.7	97.4	NO			
16	1,2,3,4,7,8,9-HpCDF	7.39e4	1.40e5	1.04	0.98	NO	1.0128	39.32	39.32	NO	1.000	1.000	52.0	104	NO			
17																		
18	13C-2,3,7,8-TCDD	5.28e5	4.62e5	0.77	0.76	NO	1.1583	28.45	28.45	NO	1.025	1.028	88.0	98.0	NO			
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.62e5	0.63	0.62	NO	0.8490	31.46	31.44	NO	1.219	1.219	95.4	95.4	NO			
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.99e5	1.24	1.28	NO	0.7780	34.82	34.83	NO	1.014	1.014	100	100	NO			
21	13C-1,2,3,6,7,8-HxCDD	3.32e5	2.99e5	1.24	1.25	NO	1.0167	34.92	34.93	NO	1.017	1.017	100	100	NO			

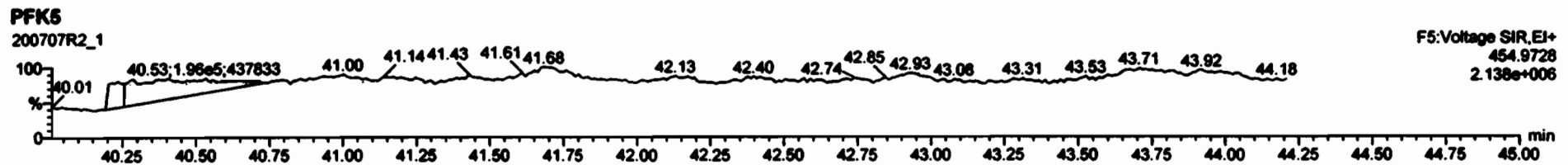
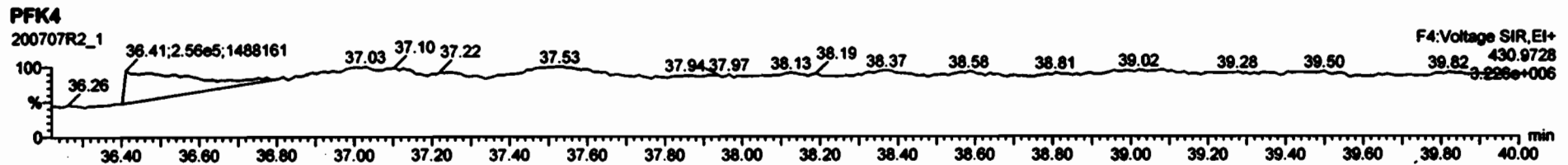
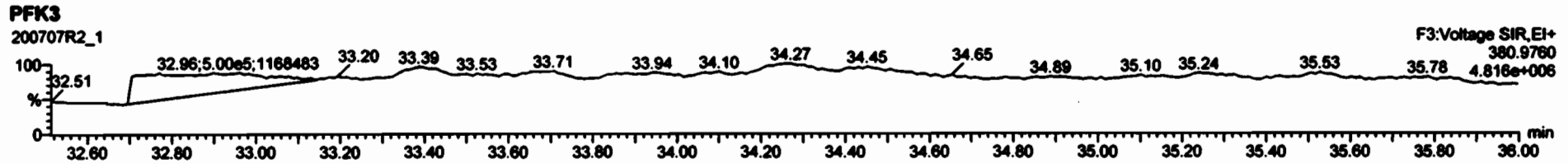
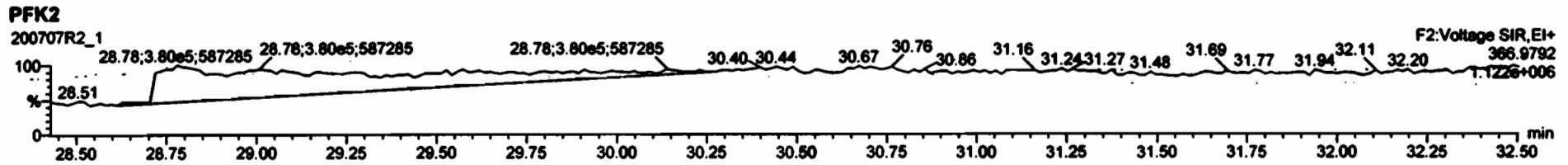
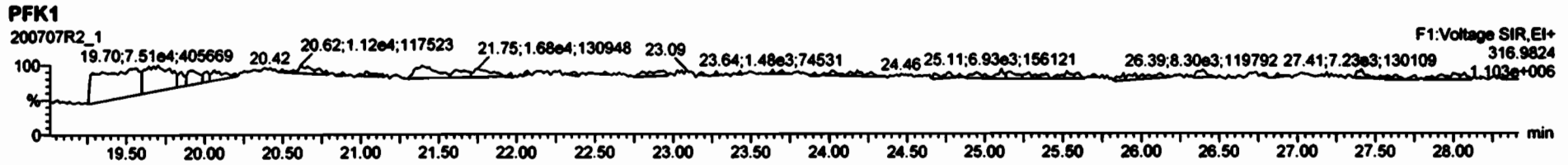


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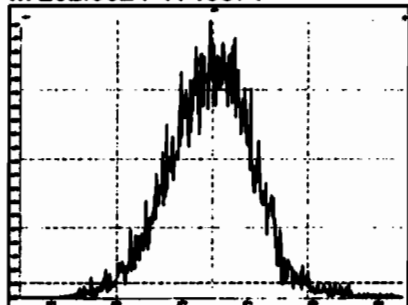
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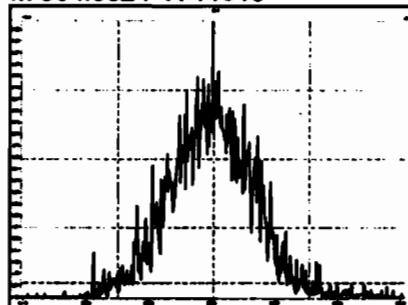


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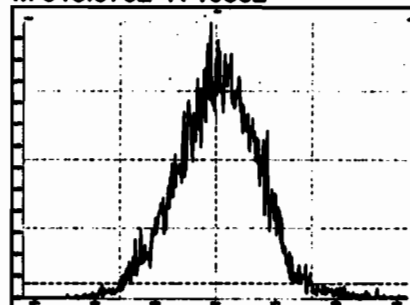
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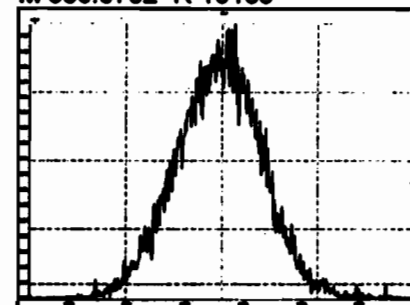
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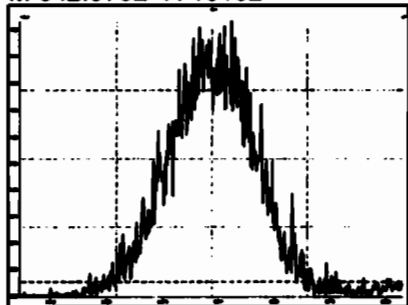
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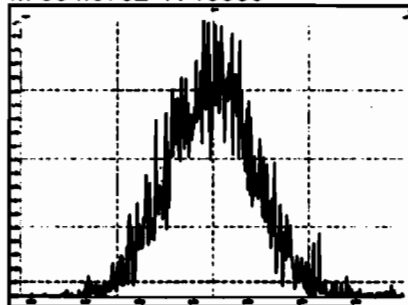
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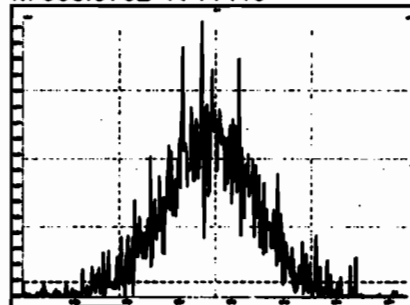
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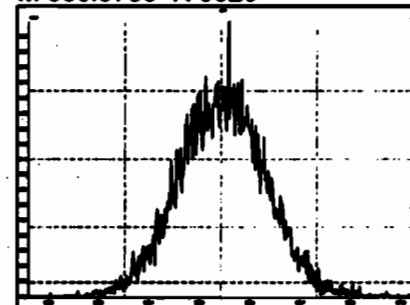
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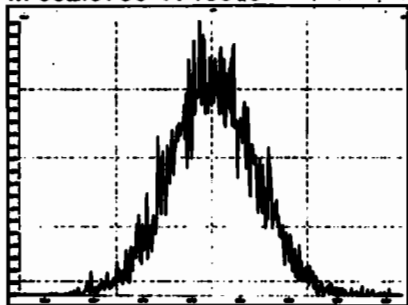
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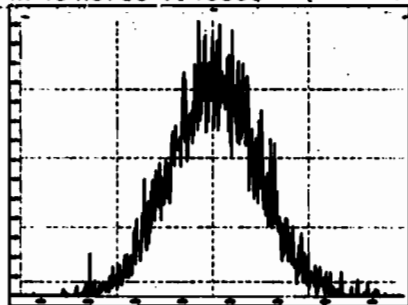
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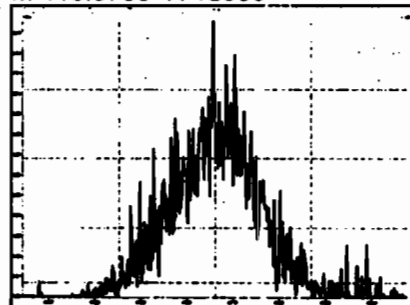
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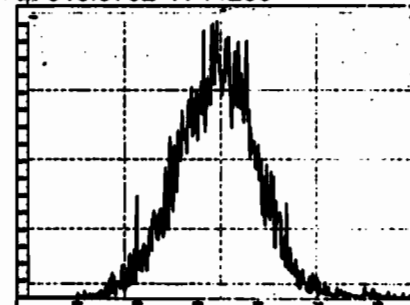
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M 416.9760 R 12886

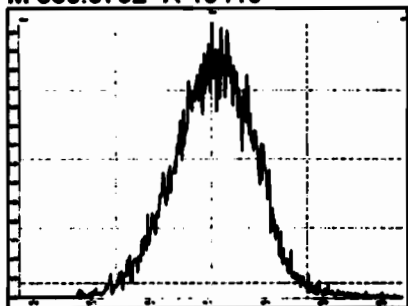


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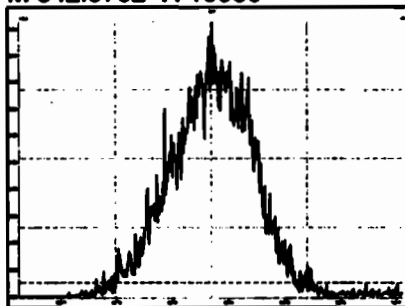


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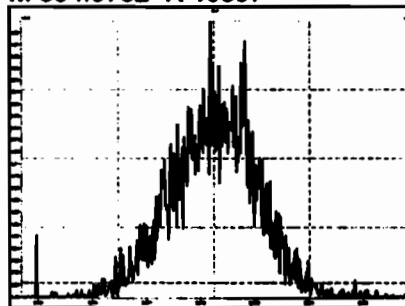
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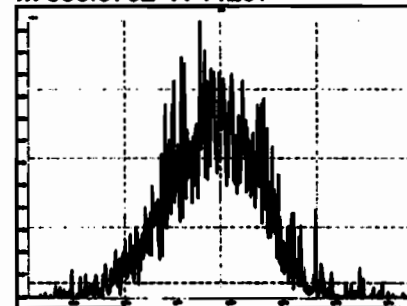
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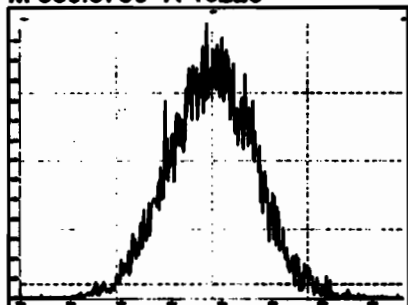
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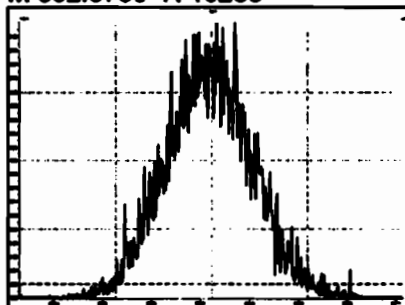
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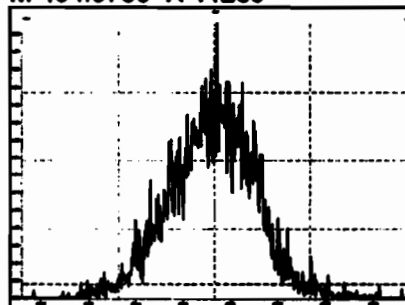
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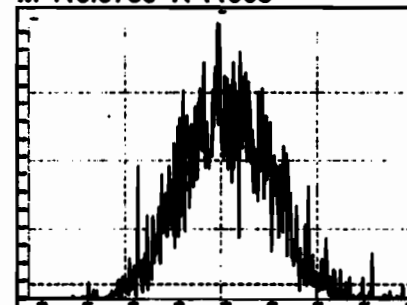
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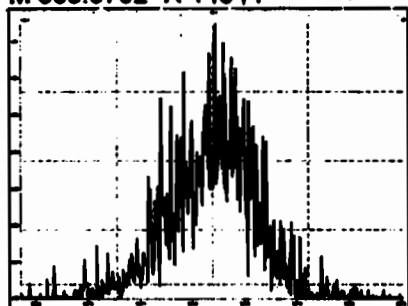
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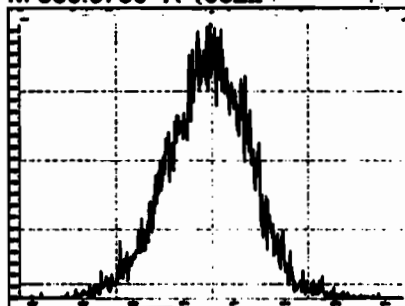
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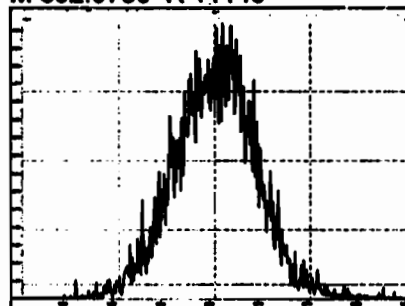
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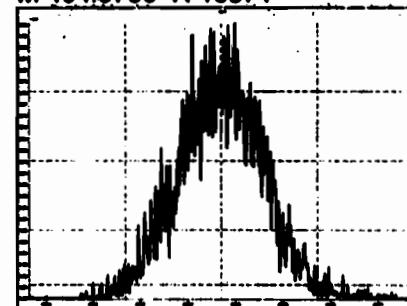
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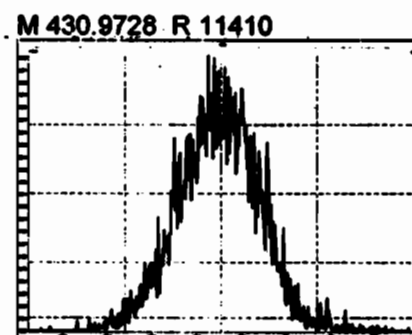
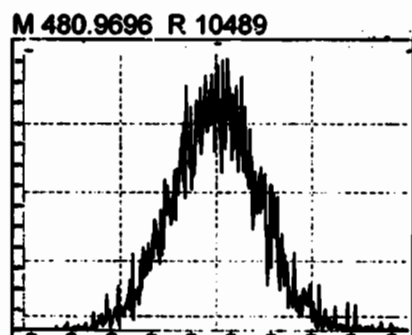
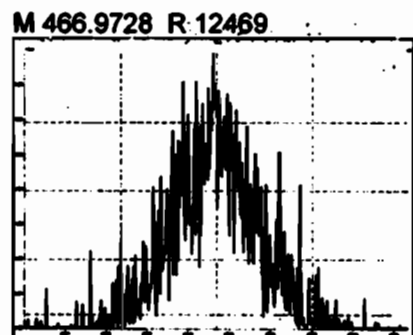
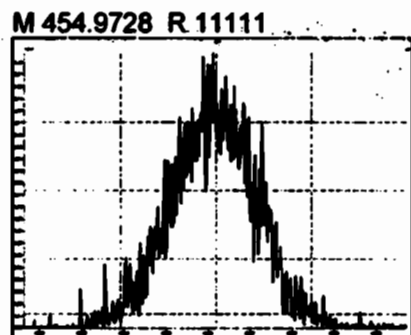
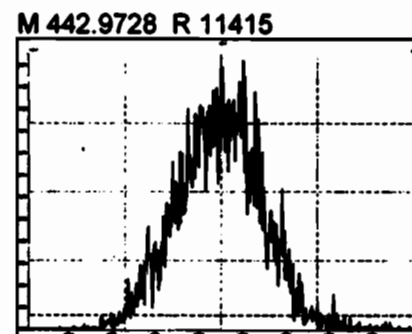
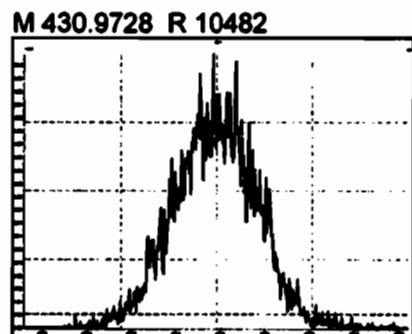
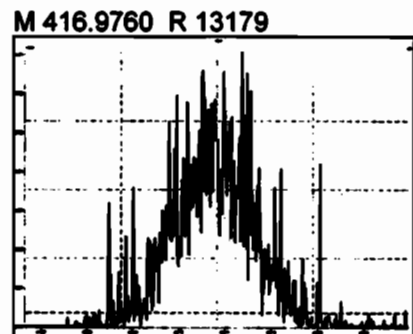
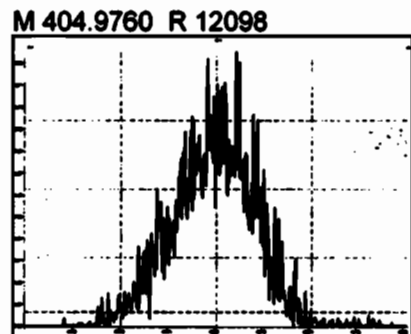
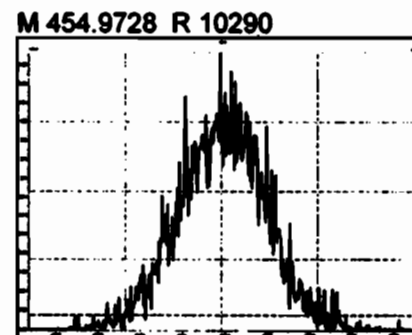
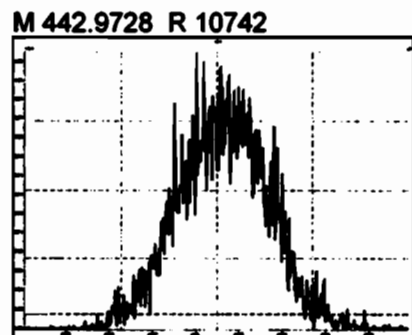
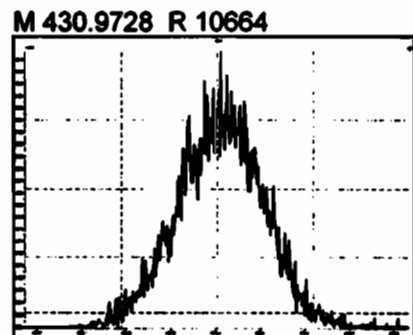
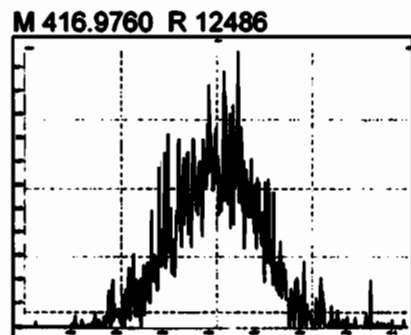
M 392.9760 R 11140



M 404.9760 R 10871

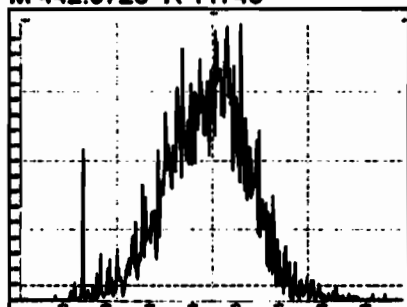


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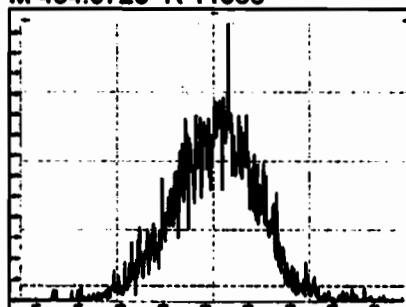


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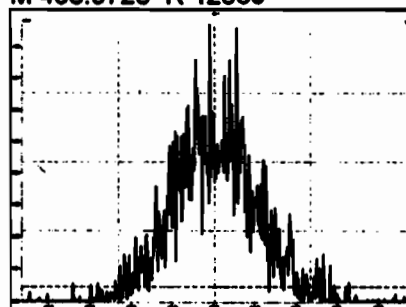
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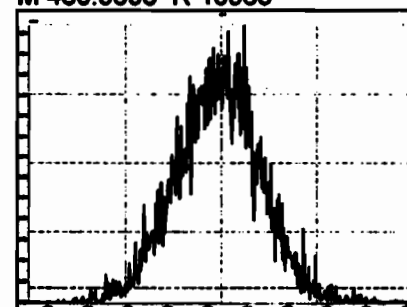
M 454.9728 R 11568



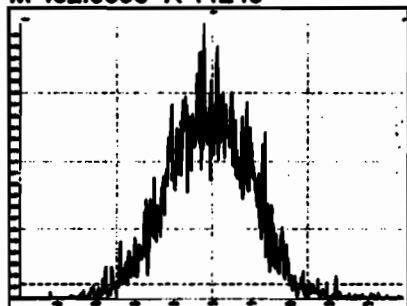
M 466.9728 R 12530



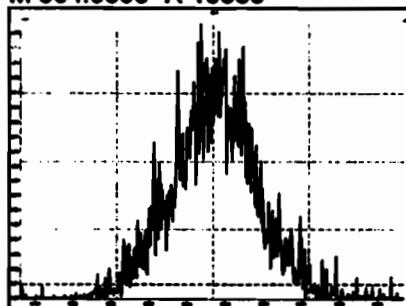
M 480.9696 R 10965



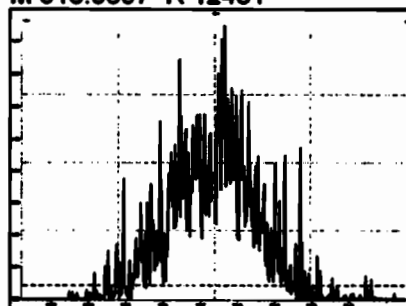
M 492.9696 R 11245



M 504.9696 R 10333



M 516.9697 R 12481



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200708D1-1

Reviewed By: C707/09/2020
Initials & Date

End Calibration ID: ST200708D1-2

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> NA	<input type="checkbox"/> NA	GC Break <20%	<input type="checkbox"/> NA	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Comments: 		
Correct ICAL referenced?	<u>DB</u>	<u>DB</u>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
- Samples within 12 hour clock?	<u>(Y)</u>	N			
- Bottle position verified?	<u>DB</u>				

Dataset: U:\VG7.PRO\Results\200708D1\200708D1_2.qld

Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:11:05 Pacific Daylight Time

DB 7/8/20 07/09/2020

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1613 8290

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRF	RRF	Conc			
1	2,3,7,8-TCDF	1.40e4	0.81	NO	0.982	1.000	16.925	16.95	1.000	1.001	8.7821	<i>87.884-120</i>	<i>0.12080-120</i>	8.78
2	13C-2,3,7,8-TCDF	1.62e5	0.75	NO	1.08	1.000	16.882	16.92	1.133	1.135	102.00	<i>102.71-140</i>	<i>0.36170-130</i>	
3	13C-1,2,3,4-TCDF	1.47e5	0.76	NO	1.00	1.000	15.060	14.91	1.000	1.000	100.00	100	0.391	

Dataset: Untitled

Last Altered: Thursday, July 09, 2020 09:30:53 Pacific Daylight Time
Printed: Thursday, July 09, 2020 09:30:58 Pacific Daylight Time

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

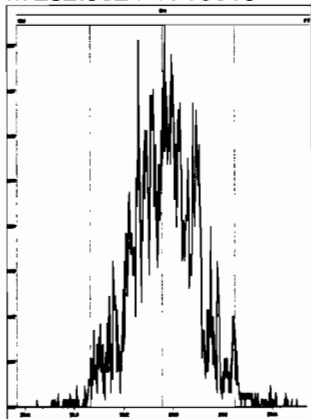
Compound name: 2,3,7,8-TCDF

Name	ID	Acq.Date	Acq.Time
200708D1_1	CP200708D1-1 DB-225 CPSM	08-Jul-20	10:08:20
200708D1_2	ST200708D1-1 1613 CS3 19L2305	08-Jul-20	10:38:29
200708D1_3	SOLVENT BLANK	08-Jul-20	11:10:12
200708D1_4	2001022-11RE1 PDI-051SC-B-02-04-200506 ...	08-Jul-20	11:41:57
200708D1_5	2001243-03RE1 ISUXO20SS500001 21.23	08-Jul-20	12:13:38
200708D1_6	2001243-10RE1 ISUXO20SSP50P0001 21.03	08-Jul-20	12:45:20
200708D1_7	2001033-01RE2 PDI-087SC-B-00-02-200509 ...	08-Jul-20	13:17:06
200708D1_8	2001207-02RE1 ISUXO20SB350102 11.15	08-Jul-20	13:48:46
200708D1_9	2001207-03RE1 ISUXO20SS390001 15.85	08-Jul-20	14:20:29
200708D1_10	2001207-04RE1 ISUXO20SB390102 12.79	08-Jul-20	14:52:11
200708D1_11	2001035-02RE1 PDI-050SC-A-01-02-200508 ...	08-Jul-20	15:27:49
200708D1_12	2001035-08RE1 PDI-050SC-B-00-02-200508 ...	08-Jul-20	15:57:51
200708D1_13	2001035-11RE1 PDI-093SC-B-00-02-200508 ...	08-Jul-20	16:29:33
200708D1_14	2001035-12RE1 PDI-093SC-B-02-05-200508 ...	08-Jul-20	17:01:15
200708D1_15	2001035-13RE1 PDI-093SC-B-05-8.8-200508 ...	08-Jul-20	17:32:52
200708D1_16	2001155-01RE1 PDI-1175SC-A-01-02-200522...	08-Jul-20	18:04:33
200708D1_17	2001155-02RE1 PDI-175SC-A-00-01-200522 ...	08-Jul-20	18:36:13
200708D1_18	2001155-03RE1 PDI-175SC-A-01-02-200522 ...	08-Jul-20	19:07:55
200708D1_19	2000855-15RE4 PDI-076SC-A-06-07-191013 ...	08-Jul-20	19:40:02
200708D1_20	SOLVENT BLANK	08-Jul-20	20:11:45
200708D1_21	ST200708D1-2 1613 CS3 19L2305	08-Jul-20	20:43:29

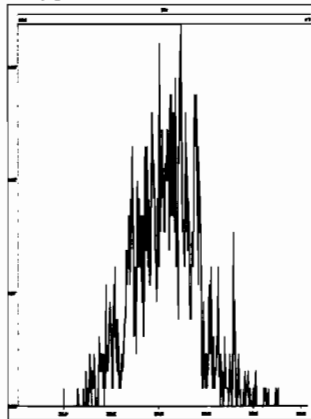
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, July 08, 2020 10:07:19 Pacific Daylight Time

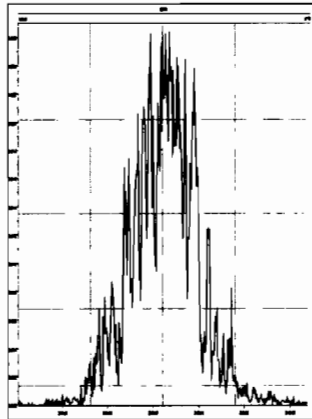
M 292.9824 R 13016



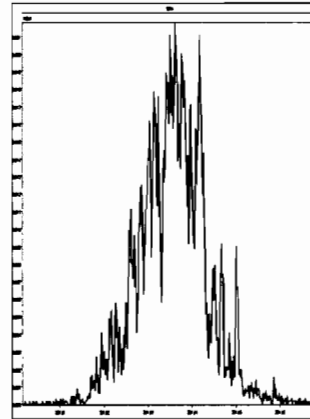
M 304.9824 R 11682



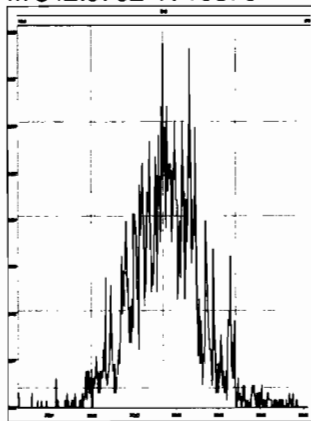
M 318.9792 R 11681



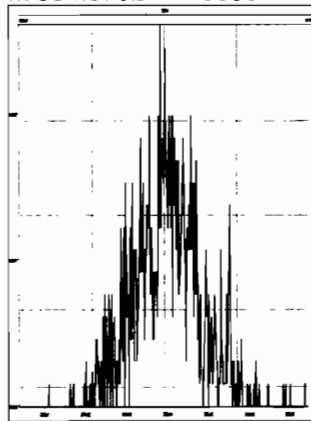
M 330.9792 R 10201



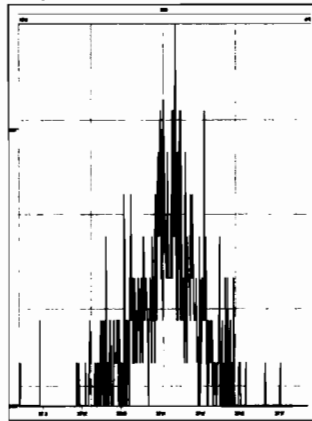
M 342.9792 R 10870



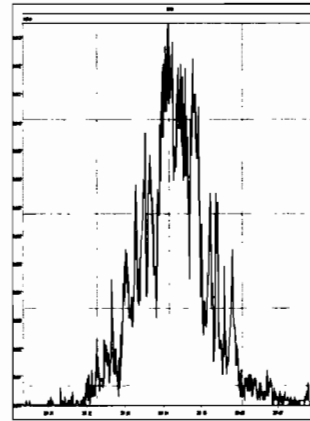
M 354.9792 R 16030

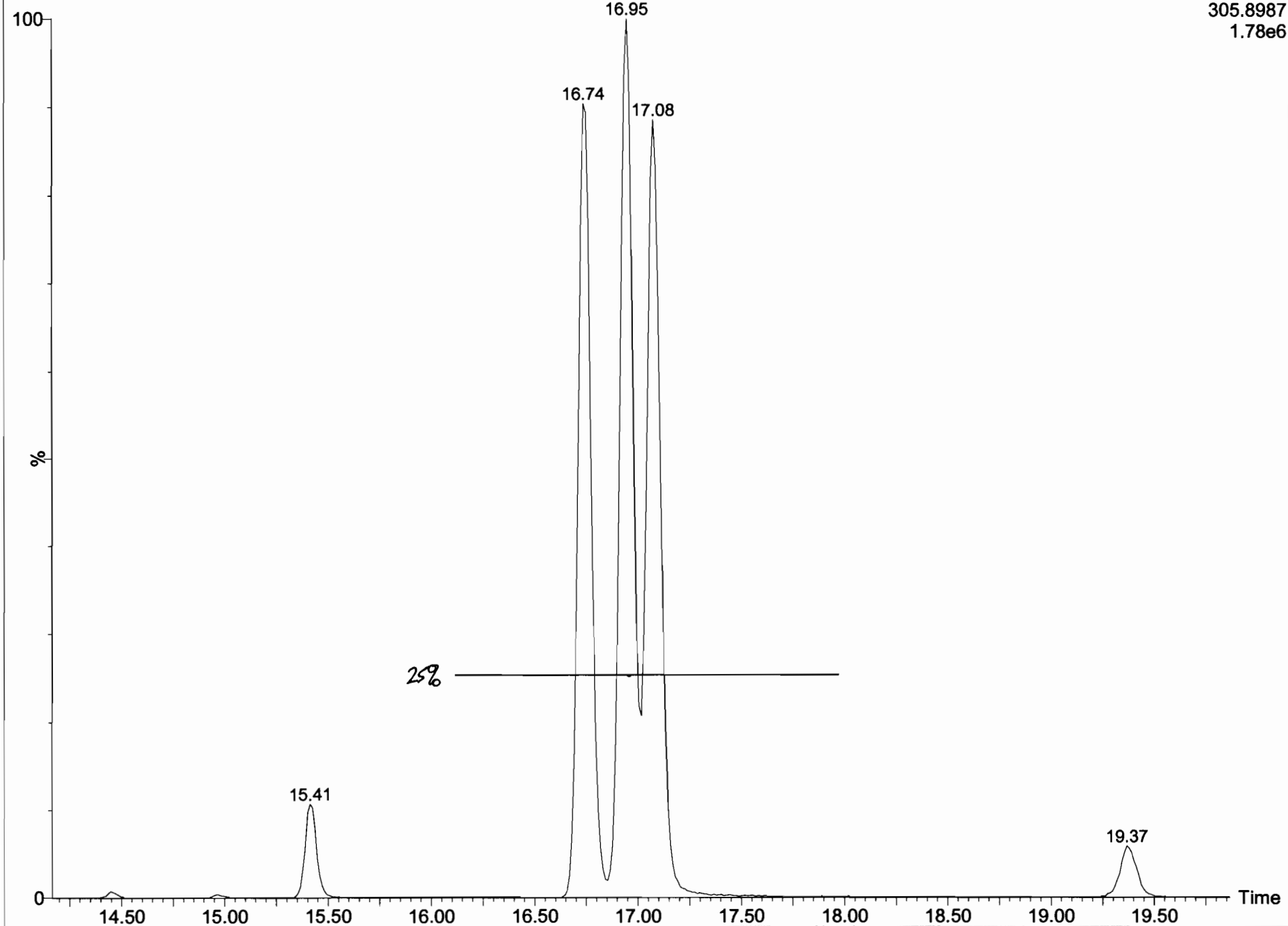


M 366.9792 R 12251



M 380.9760 R 11962





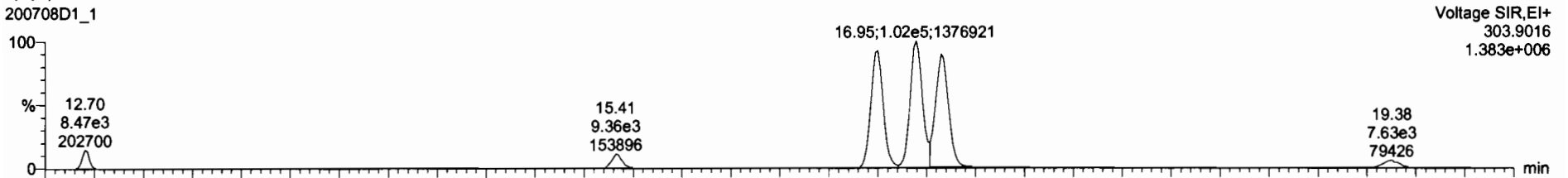
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_1.qld

Last Altered: Wednesday, July 08, 2020 11:11:41 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:12:35 Pacific Daylight Time

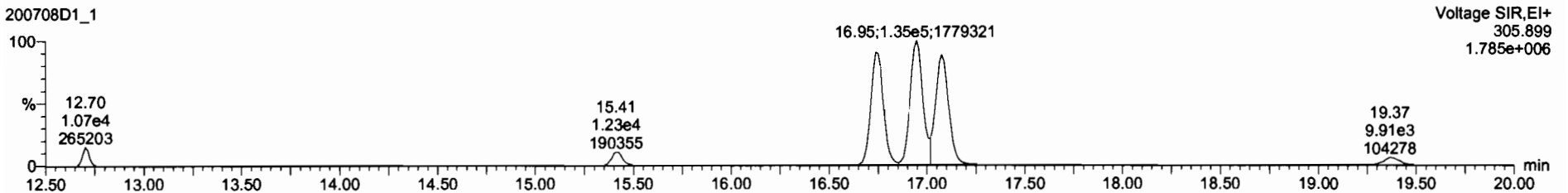
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_1, Date: 08-Jul-2020, Time: 10:08:20, ID: CP200708D1-1 DB-225 CPSM, Description: DB-225 CPSM

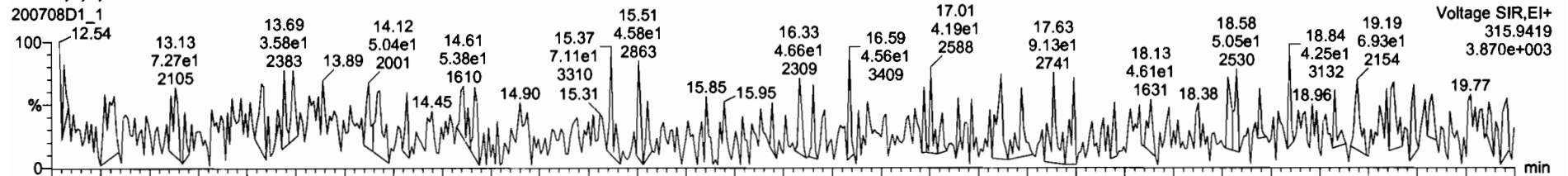
2,3,7,8-TCDF
200708D1_1



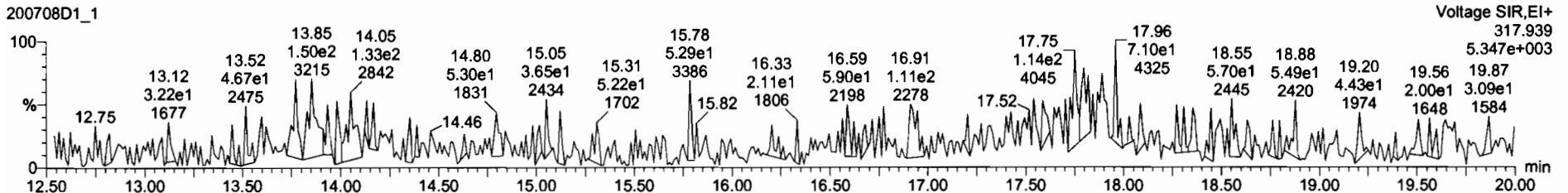
200708D1_1



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



200708D1_1

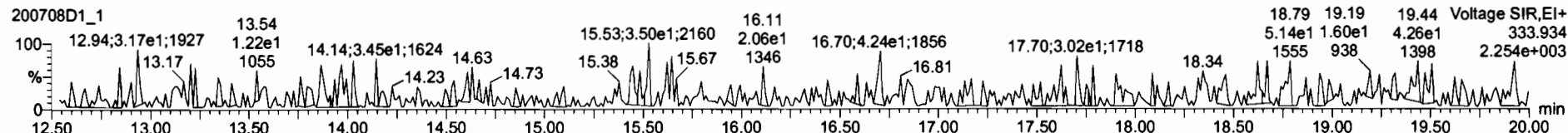
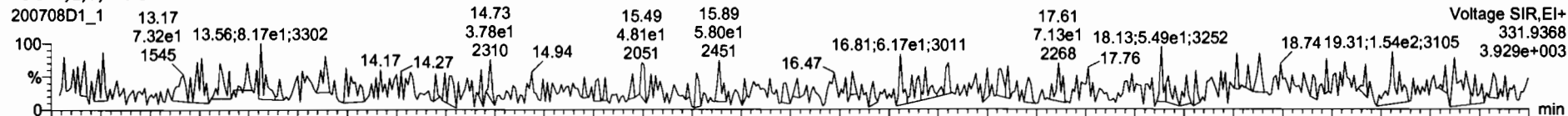


Dataset: U:\VG7.PRO\Results\200708D1\200708D1_1.qld

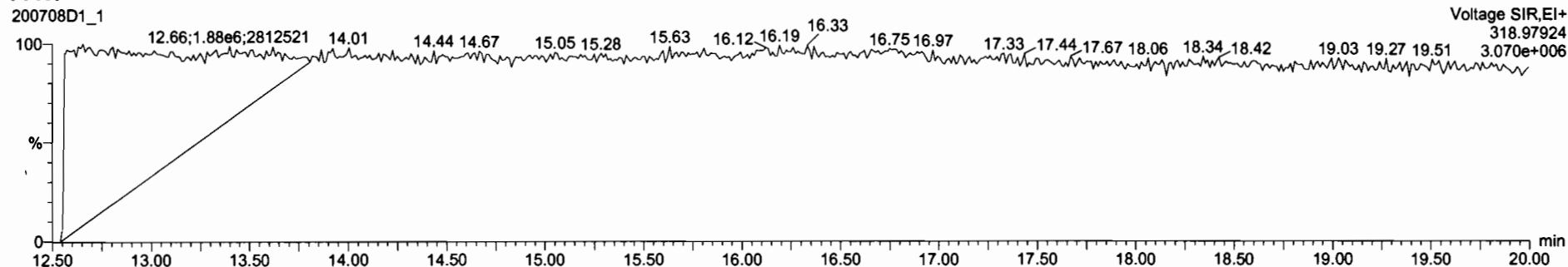
Last Altered: Wednesday, July 08, 2020 11:11:41 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:12:35 Pacific Daylight Time

Name: 200708D1_1, Date: 08-Jul-2020, Time: 10:08:20, ID: CP200708D1-1 DB-225 CPSM, Description: DB-225 CPSM

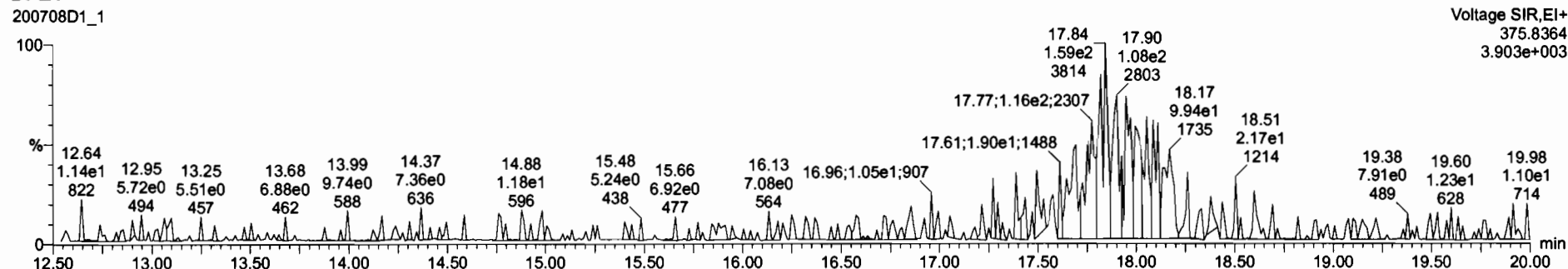
13C-1,2,3,4-TCDD



PFK1



DPE1



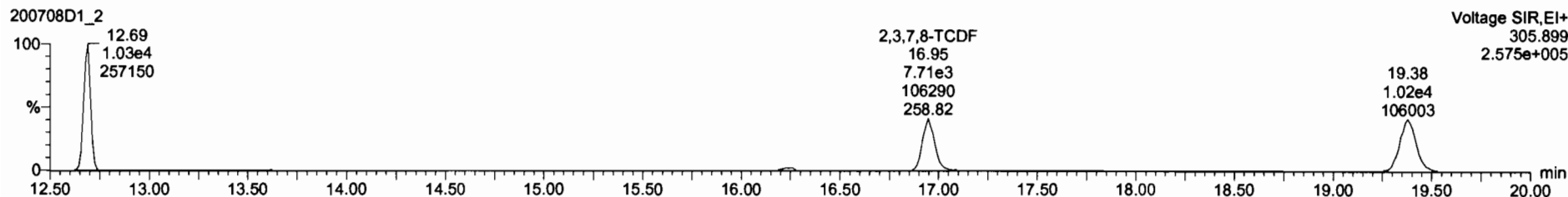
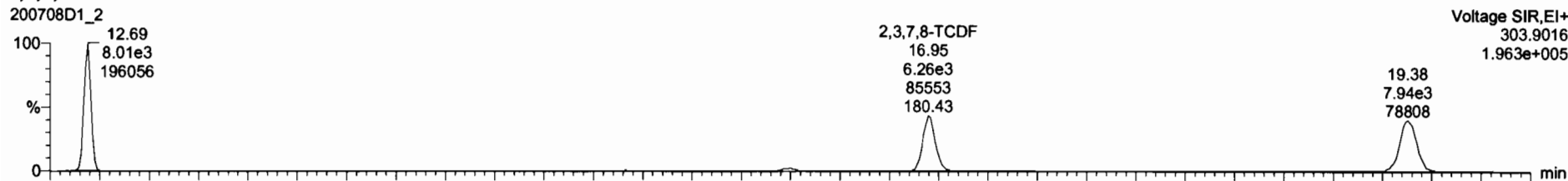
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_2.qld

Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:11:31 Pacific Daylight Time

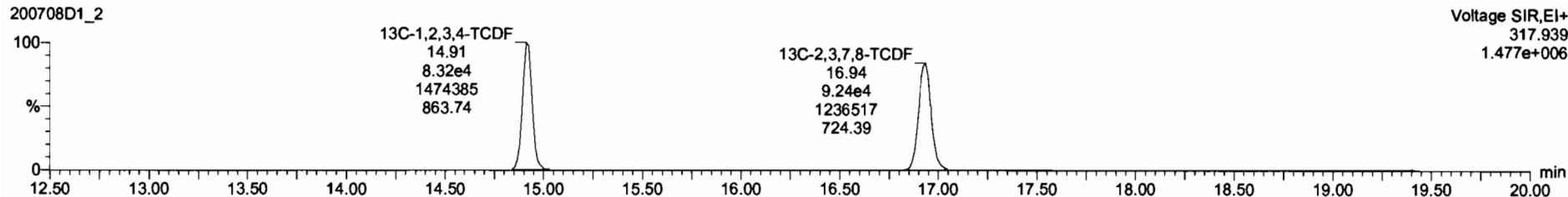
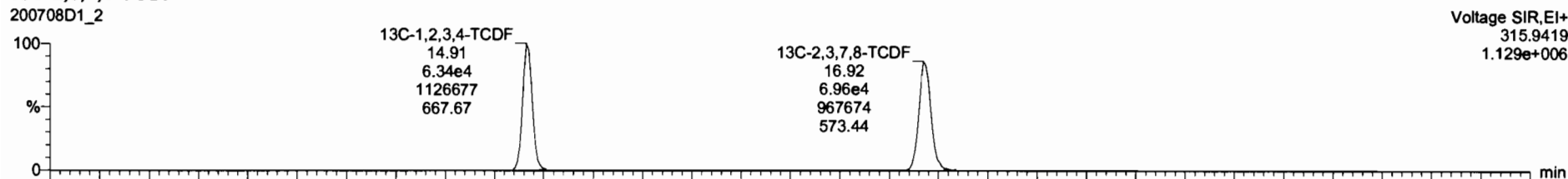
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\ldb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF



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



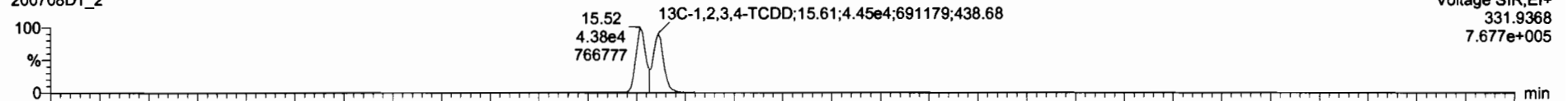
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_2.qld

Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:11:31 Pacific Daylight Time

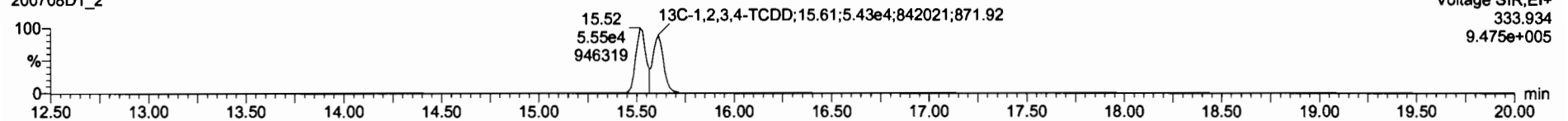
Name: 200708D1_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200708D1_2

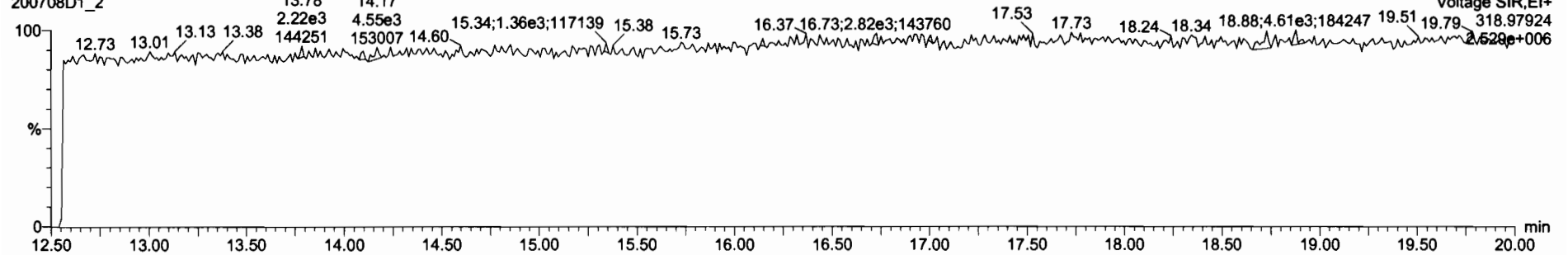


200708D1_2



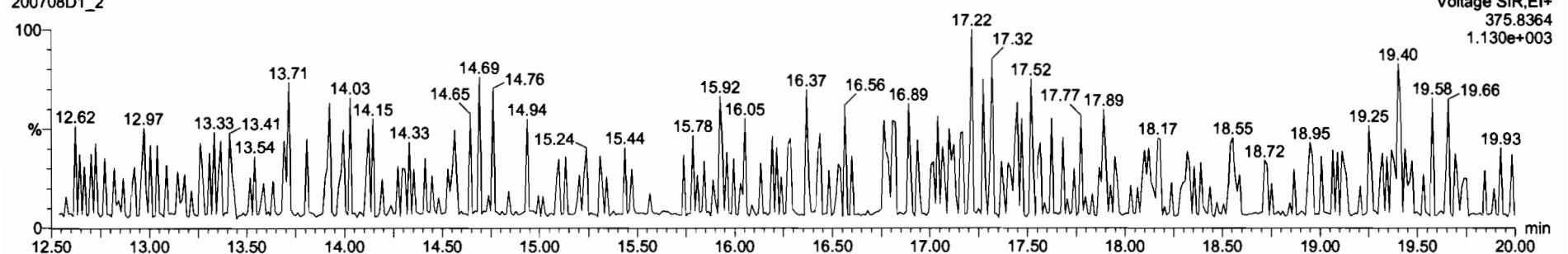
PFK1

200708D1_2



DPE1

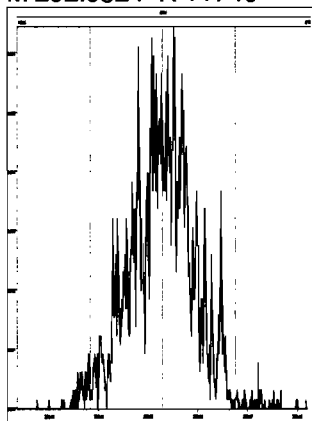
200708D1_2



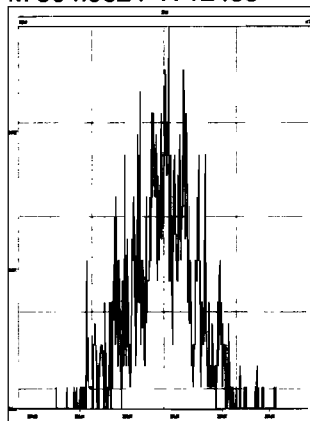
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, July 08, 2020 21:16:53 Pacific Daylight Time

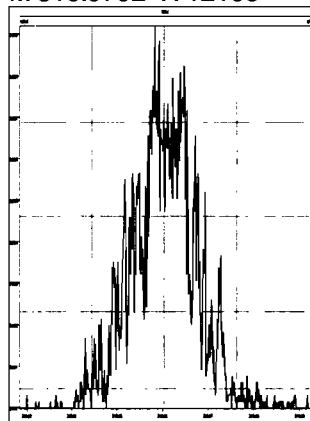
M 292.9824 R 11740



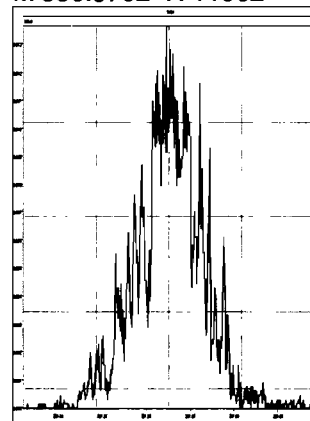
M 304.9824 R 12433



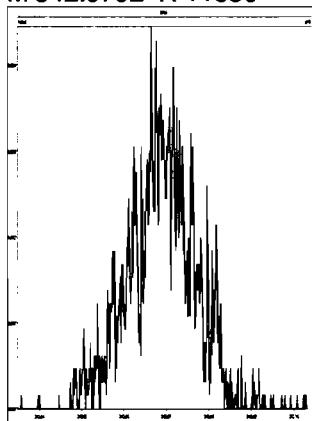
M 318.9792 R 12195



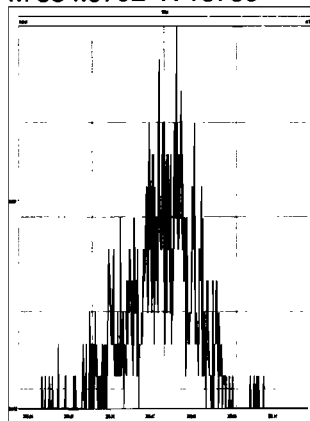
M 330.9792 R 11902



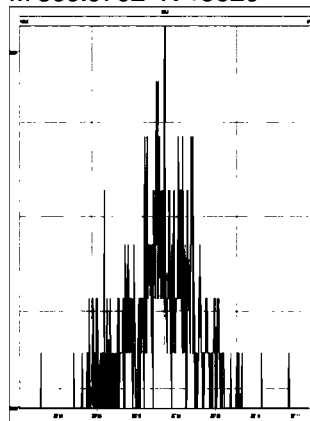
M 342.9792 R 11850



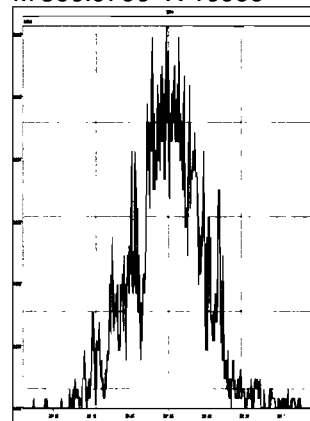
M 354.9792 R 13736



M 366.9792 R 15820



M 380.9760 R 10966



INITIAL CALIBRATION

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

Last Altered: Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time
 Printed: Wednesday, May 27, 2020 11:54:01 Pacific Daylight Time

DB 5/27/20 *0705/27/2020*

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt.mdb 27 Apr 2020 14:17:24
 Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Compound name: 2,3,7,8-TCDD

Response Factor: 0.986442
 RRF SD: 0.13547, Relative SD: 13.7332
 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	200526D2_2	0.250	0.87	NO	26.16	1.001	2.84e2	1.15e5	0.251	0.3	0.990	MM
2	200526D2_3	0.500	0.86	NO	26.19	1.001	6.01e2	1.13e5	0.540	8.1	1.07	bb
3	200526D2_4	2.00	0.78	NO	26.17	1.001	1.98e3	1.21e5	1.66	-16.8	0.820	bb
4	200526D2_5	10.0	0.82	NO	26.19	1.001	1.00e4	1.15e5	8.86	-11.4	0.874	db
5	200526D2_6	40.0	0.80	NO	26.19	1.001	4.74e4	1.22e5	39.4	-1.6	0.970	bb
6	200526D2_7	300	0.80	NO	26.19	1.001	3.68e5	1.02e5	364	21.5	1.20	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.963666
 RRF SD: 0.129338, Relative SD: 13.4215
 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	200526D2_2	1.25	0.63	NO	30.61	1.000	8.84e2	8.06e4	1.14	-9.0	0.877	bb
2	200526D2_3	2.50	0.67	NO	30.63	1.001	2.07e3	8.18e4	2.63	5.2	1.01	bb
3	200526D2_4	10.0	0.61	NO	30.63	1.001	7.46e3	8.84e4	8.76	-12.4	0.844	bb
4	200526D2_5	50.0	0.62	NO	30.63	1.001	3.66e4	8.41e4	45.2	-9.6	0.871	bb
5	200526D2_6	200	0.62	NO	30.63	1.001	1.76e5	8.91e4	205	2.6	0.988	bb
6	200526D2_7	1500	0.63	NO	30.63	1.000	1.40e6	7.85e4	1850	23.2	1.19	bb

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

Last Altered: Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time

Printed: Wednesday, May 27, 2020 11:54:01 Pacific Daylight Time

Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.16246

RRF SD: 0.166976, Relative SD: 14.364

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	200526D2_2	1.25	1.27	NO	33.95	1.001	7.92e2	6.23e4	1.09	-12.5	1.02	bd
2	200526D2_3	2.50	1.28	NO	33.94	1.000	1.90e3	6.18e4	2.64	5.4	1.23	bd
3	200526D2_4	10.0	1.21	NO	33.95	1.000	6.57e3	6.66e4	8.48	-15.2	0.986	bd
4	200526D2_5	50.0	1.26	NO	33.95	1.000	3.52e4	6.49e4	46.6	-6.7	1.08	bd
5	200526D2_6	200	1.25	NO	33.95	1.000	1.72e5	7.00e4	212	5.8	1.23	bd
6	200526D2_7	1500	1.25	NO	33.96	1.000	1.43e6	6.66e4	1850	23.2	1.43	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 1.00759

RRF SD: 0.120605, Relative SD: 11.9697

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	200526D2_2	1.25	1.12	NO	34.05	1.000	8.39e2	7.10e4	1.17	-6.1	0.946	db
2	200526D2_3	2.50	1.30	NO	34.06	1.000	1.99e3	7.22e4	2.73	9.2	1.10	db
3	200526D2_4	10.0	1.22	NO	34.06	1.001	6.99e3	7.92e4	8.76	-12.4	0.883	db
4	200526D2_5	50.0	1.29	NO	34.06	1.001	3.48e4	7.68e4	44.9	-10.2	0.905	db
5	200526D2_6	200	1.25	NO	34.06	1.000	1.70e5	8.35e4	202	1.0	1.02	db
6	200526D2_7	1500	1.23	NO	34.07	1.000	1.38e6	7.72e4	1780	18.4	1.19	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 1.00838

RRF SD: 0.138343, Relative SD: 13.7193

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	200526D2_2	1.25	1.26	NO	34.37	1.001	7.73e2	6.94e4	1.10	-11.7	0.890	bb
2	200526D2_3	2.50	1.15	NO	34.34	1.000	2.00e3	7.14e4	2.78	11.2	1.12	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	200526D2_4	10.0	1.24	NO	34.36	1.000	6.73e3	7.54e4	8.84	-11.6	0.892	bb
4	200526D2_5	50.0	1.26	NO	34.36	1.000	3.36e4	7.47e4	44.6	-10.7	0.900	bb
5	200526D2_6	200	1.26	NO	34.36	1.000	1.67e5	8.10e4	204	2.2	1.03	bb
6	200526D2_7	1500	1.24	NO	34.37	1.000	1.39e6	7.61e4	1810	20.6	1.22	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.996525

RRF SD: 0.136501, Relative SD: 13.6977

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Fresp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	1.15	NO	37.78	1.000	6.60e2	5.48e4	1.21	-3.3	0.963	bb
2	200526D2_3	2.50	0.96	NO	37.79	1.000	1.56e3	5.77e4	2.71	8.6	1.08	bb
3	200526D2_4	10.0	1.16	NO	37.79	1.000	5.03e3	5.98e4	8.44	-15.6	0.841	bb
4	200526D2_5	50.0	1.03	NO	37.79	1.000	2.77e4	6.34e4	43.9	-12.2	0.875	bd
5	200526D2_6	200	1.01	NO	37.79	1.000	1.37e5	6.79e4	202	1.1	1.01	bb
6	200526D2_7	1500	1.03	NO	37.80	1.000	1.16e6	6.37e4	1820	21.4	1.21	bb

Compound name: OCDD

Response Factor: 1.01327

RRF SD: 0.124347, Relative SD: 12.2718

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	200526D2_2	2.50	0.88	NO	41.07	1.000	1.13e3	1.01e5	2.21	-11.8	0.894	MM
2	200526D2_3	5.00	0.83	NO	41.09	1.000	2.77e3	1.05e5	5.22	4.3	1.06	bd
3	200526D2_4	20.0	0.87	NO	41.09	1.000	9.83e3	1.09e5	17.7	-11.4	0.897	bd
4	200526D2_5	100	0.89	NO	41.09	1.000	5.26e4	1.13e5	92.2	-7.8	0.934	bd
5	200526D2_6	400	0.87	NO	41.10	1.001	2.65e5	1.20e5	434	8.6	1.10	bd
6	200526D2_7	3000	0.89	NO	41.12	1.000	2.27e6	1.27e5	3540	18.2	1.20	bb

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Compound name: 2,3,7,8-TCDF

Response Factor: 0.833401

RRF SD: 0.120463, Relative SD: 14.4544

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	200526D2_2	0.250	0.88	NO	25.39	1.001	3.10e2	1.74e5	0.214	-14.3	0.714	bb
2	200526D2_3	0.500	0.67	NO	25.39	1.000	7.87e2	1.69e5	0.558	11.6	0.930	bb
3	200526D2_4	2.00	0.69	NO	25.42	1.001	2.82e3	1.83e5	1.85	-7.3	0.772	bb
4	200526D2_5	10.0	0.75	NO	25.41	1.001	1.34e4	1.83e5	8.77	-12.3	0.731	bb
5	200526D2_6	40.0	0.75	NO	25.42	1.001	6.45e4	1.93e5	40.0	0.0	0.833	bb
6	200526D2_7	300	0.77	NO	25.42	1.001	5.10e5	1.67e5	367	22.4	1.02	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.964878

RRF SD: 0.13273, Relative SD: 13.7562

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	200526D2_2	1.25	1.49	NO	29.44	1.000	1.40e3	1.35e5	1.07	-14.1	0.829	bb
2	200526D2_3	2.50	1.57	NO	29.46	1.001	3.25e3	1.31e5	2.58	3.3	0.997	bb
3	200526D2_4	10.0	1.58	NO	29.46	1.001	1.19e4	1.42e5	8.69	-13.1	0.838	bd
4	200526D2_5	50.0	1.57	NO	29.46	1.001	6.36e4	1.39e5	47.4	-5.2	0.915	bb
5	200526D2_6	200	1.59	NO	29.46	1.000	3.04e5	1.47e5	214	7.0	1.03	bb
6	200526D2_7	1500	1.58	NO	29.48	1.001	2.35e6	1.33e5	1830	22.1	1.18	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 1.00958

RRF SD: 0.125614, Relative SD: 12.4421

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	200526D2_2	1.25	1.77	NO	30.33	1.000	1.52e3	1.28e5	1.17	-6.2	0.947	MM
2	200526D2_3	2.50	1.76	NO	30.35	1.001	3.23e3	1.24e5	2.58	3.3	1.04	bb

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Compound name: 2,3,4,7,8-PeCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200526D2_4	10.0	1.67	NO	30.35	1.001	1.19e4	1.40e5	8.42	-15.8	0.850	bb
4	200526D2_5	50.0	1.58	NO	30.35	1.001	6.33e4	1.33e5	47.2	-5.5	0.954	bb
5	200526D2_6	200	1.59	NO	30.35	1.001	3.00e5	1.44e5	207	3.3	1.04	bb
6	200526D2_7	1500	1.57	NO	30.35	1.000	2.35e6	1.29e5	1810	20.9	1.22	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 1.09486
 RRF SD: 0.132448, Relative SD: 12.0973
 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	200526D2_2	1.25	1.40	NO	33.04	1.000	1.15e3	9.20e4	1.14	-8.7	1.00	bd
2	200526D2_3	2.50	1.30	NO	33.05	1.000	2.67e3	9.26e4	2.63	5.3	1.15	bd
3	200526D2_4	10.0	1.20	NO	33.05	1.000	9.98e3	1.02e5	8.93	-10.7	0.977	bd
4	200526D2_5	50.0	1.27	NO	33.05	1.000	4.90e4	1.00e5	44.7	-10.5	0.980	bd
5	200526D2_6	200	1.26	NO	33.05	1.000	2.51e5	1.09e5	211	5.3	1.15	dd
6	200526D2_7	1500	1.25	NO	33.06	1.000	1.98e6	1.01e5	1790	19.4	1.31	dd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 1.06552
 RRF SD: 0.142006, Relative SD: 13.3275
 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	200526D2_2	1.25	1.13	NO	33.17	1.000	1.12e3	9.80e4	1.07	-14.3	0.913	db
2	200526D2_3	2.50	1.24	NO	33.18	1.000	2.72e3	9.78e4	2.61	4.4	1.11	db
3	200526D2_4	10.0	1.28	NO	33.18	1.001	1.01e4	1.06e5	8.96	-10.4	0.954	db
4	200526D2_5	50.0	1.24	NO	33.18	1.001	5.13e4	1.04e5	46.1	-7.8	0.982	db
5	200526D2_6	200	1.26	NO	33.18	1.000	2.59e5	1.14e5	214	7.0	1.14	db
6	200526D2_7	1500	1.25	NO	33.19	1.001	2.01e6	1.04e5	1820	21.1	1.29	db

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 1.15441

RRF SD: 0.159568, Relative SD: 13.8224

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	200526D2_2	1.25	1.33	NO	33.77	1.001	1.11e3	8.65e4	1.12	-10.8	1.03	bb
2	200526D2_3	2.50	1.26	NO	33.79	1.001	2.72e3	8.89e4	2.65	6.0	1.22	bb
3	200526D2_4	10.0	1.23	NO	33.77	1.000	9.76e3	9.72e4	8.69	-13.1	1.00	bb
4	200526D2_5	50.0	1.25	NO	33.79	1.001	5.01e4	9.79e4	44.4	-11.3	1.02	bb
5	200526D2_6	200	1.26	NO	33.77	1.000	2.53e5	1.01e5	217	8.3	1.25	bb
6	200526D2_7	1500	1.25	NO	33.79	1.000	2.03e6	9.68e4	1810	20.9	1.40	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 1.11431

RRF SD: 0.13751, Relative SD: 12.3403

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	200526D2_2	1.25	1.17	NO	34.73	1.000	9.51e2	7.27e4	1.17	-6.1	1.05	bb
2	200526D2_3	2.50	1.32	NO	34.74	1.000	2.35e3	7.77e4	2.72	8.7	1.21	bb
3	200526D2_4	10.0	1.26	NO	34.74	1.001	8.16e3	8.28e4	8.84	-11.6	0.985	bb
4	200526D2_5	50.0	1.27	NO	34.74	1.000	4.08e4	8.50e4	43.0	-14.0	0.958	bb
5	200526D2_6	200	1.30	NO	34.74	1.000	2.06e5	8.72e4	213	6.3	1.18	bb
6	200526D2_7	1500	1.26	NO	34.75	1.001	1.69e6	8.66e4	1750	16.7	1.30	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 1.15744

RRF SD: 0.161839, Relative SD: 13.9825

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	200526D2_2	1.25	1.02	NO	36.59	1.000	8.87e2	6.85e4	1.12	-10.5	1.04	bb
2	200526D2_3	2.50	1.00	NO	36.61	1.001	2.17e3	6.95e4	2.70	8.2	1.25	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	200526D2_4	10.0	1.03	NO	36.59	1.000	7.62e3	7.52e4	8.76	-12.4	1.01	bb
4	200526D2_5	50.0	1.03	NO	36.61	1.001	3.96e4	7.76e4	44.2	-11.7	1.02	bb
5	200526D2_6	200	1.04	NO	36.61	1.000	1.97e5	8.15e4	209	4.3	1.21	bb
6	200526D2_7	1500	1.02	NO	36.62	1.001	1.65e6	7.78e4	1830	22.2	1.41	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.34996

RRF SD: 0.206408, Relative SD: 15.2899

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	200526D2_2	1.25	0.99	NO	38.34	1.001	6.79e2	4.95e4	1.02	-18.7	1.10	bb
2	200526D2_3	2.50	1.07	NO	38.34	1.000	1.93e3	5.07e4	2.81	12.5	1.52	bb
3	200526D2_4	10.0	0.93	NO	38.34	1.000	6.48e3	5.43e4	8.84	-11.6	1.19	bb
4	200526D2_5	50.0	1.02	NO	38.34	1.001	3.49e4	5.65e4	45.8	-8.4	1.24	bb
5	200526D2_6	200	1.03	NO	38.34	1.000	1.72e5	6.06e4	211	5.4	1.42	bb
6	200526D2_7	1500	1.02	NO	38.34	1.000	1.48e6	6.04e4	1810	20.7	1.63	bb

Compound name: OCDF

Response Factor: 0.94897

RRF SD: 0.11777, Relative SD: 12.4103

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	200526D2_2	2.50	0.88	NO	41.31	1.000	1.33e3	1.17e5	2.39	-4.4	0.907	bb
2	200526D2_3	5.00	0.90	NO	41.33	1.001	3.26e3	1.25e5	5.47	9.5	1.04	bb
3	200526D2_4	20.0	0.86	NO	41.32	1.001	1.08e4	1.37e5	16.6	-17.0	0.788	bb
4	200526D2_5	100	0.94	NO	41.31	1.000	5.99e4	1.39e5	90.9	-9.1	0.862	bd
5	200526D2_6	400	0.90	NO	41.32	1.000	3.09e5	1.55e5	419	4.7	0.994	bb
6	200526D2_7	3000	0.89	NO	41.33	1.000	2.67e6	1.61e5	3490	16.3	1.10	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.25927
 RRF SD: 0.0242426, Relative SD: 1.92513
 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	200526D2_2	100	0.80	NO	26.14	1.022	1.15e5	9.16e4	99.4	-0.6	1.25	bb
2	200526D2_3	100	0.81	NO	26.16	1.021	1.13e5	8.84e4	101	1.2	1.27	bb
3	200526D2_4	100	0.79	NO	26.16	1.021	1.21e5	9.44e4	102	1.5	1.28	bb
4	200526D2_5	100	0.78	NO	26.16	1.021	1.15e5	9.24e4	98.8	-1.2	1.24	bb
5	200526D2_6	100	0.78	NO	26.17	1.022	1.22e5	9.49e4	102	2.1	1.29	bb
6	200526D2_7	100	0.78	NO	26.17	1.022	1.02e5	8.37e4	97.1	-2.9	1.22	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.921299
 RRF SD: 0.0229711, Relative SD: 2.49334
 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	200526D2_2	100	0.63	NO	30.61	1.196	8.06e4	9.16e4	95.5	-4.5	0.880	bb
2	200526D2_3	100	0.62	NO	30.61	1.195	8.18e4	8.84e4	100	0.4	0.925	bb
3	200526D2_4	100	0.61	NO	30.61	1.195	8.84e4	9.44e4	102	1.7	0.937	bb
4	200526D2_5	100	0.63	NO	30.61	1.195	8.41e4	9.24e4	98.8	-1.2	0.910	bb
5	200526D2_6	100	0.62	NO	30.61	1.195	8.91e4	9.49e4	102	1.8	0.938	bb
6	200526D2_7	100	0.62	NO	30.63	1.196	7.85e4	8.37e4	102	1.8	0.938	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.707189
 RRF SD: 0.0212274, Relative SD: 3.00166
 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	200526D2_2	100	1.37	NO	33.93	1.014	6.23e4	8.64e4	102	1.9	0.721	bd
2	200526D2_3	100	1.35	NO	33.94	1.014	6.18e4	8.85e4	98.8	-1.2	0.699	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	200526D2_4	100	1.30	NO	33.94	1.015	6.66e4	9.66e4	97.5	-2.5	0.689	bd
4	200526D2_5	100	1.33	NO	33.94	1.014	6.49e4	9.47e4	96.9	-3.1	0.685	bd
5	200526D2_6	100	1.27	NO	33.94	1.014	7.00e4	9.90e4	100	0.0	0.707	bd
6	200526D2_7	100	1.32	NO	33.95	1.014	6.66e4	8.98e4	105	4.9	0.742	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 0.828565

RRF SD: 0.0188377, Relative SD: 2.27353

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	200526D2_2	100	1.30	NO	34.04	1.018	7.10e4	8.64e4	99.2	-0.8	0.822	db
2	200526D2_3	100	1.29	NO	34.05	1.018	7.22e4	8.85e4	98.4	-1.6	0.816	db
3	200526D2_4	100	1.32	NO	34.04	1.018	7.92e4	9.66e4	98.9	-1.1	0.820	db
4	200526D2_5	100	1.35	NO	34.04	1.017	7.68e4	9.47e4	97.9	-2.1	0.812	db
5	200526D2_6	100	1.35	NO	34.05	1.018	8.35e4	9.90e4	102	1.8	0.843	db
6	200526D2_7	100	1.33	NO	34.06	1.018	7.72e4	8.98e4	104	3.8	0.860	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.807923

RRF SD: 0.0238515, Relative SD: 2.95219

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	200526D2_2	100	1.27	NO	34.33	1.027	6.94e4	8.64e4	99.5	-0.5	0.804	bb
2	200526D2_3	100	1.30	NO	34.34	1.027	7.14e4	8.85e4	99.8	-0.2	0.806	bb
3	200526D2_4	100	1.32	NO	34.34	1.027	7.54e4	9.66e4	96.6	-3.4	0.781	bb
4	200526D2_5	100	1.30	NO	34.34	1.027	7.47e4	9.47e4	97.7	-2.3	0.790	bd
5	200526D2_6	100	1.33	NO	34.34	1.027	8.10e4	9.90e4	101	1.4	0.819	bd
6	200526D2_7	100	1.28	NO	34.36	1.027	7.61e4	8.98e4	105	5.0	0.848	bb

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

Response Factor: 0.661788

RRF SD: 0.0338299, Relative SD: 5.11189

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	200526D2_2	100	1.03	NO	37.78	1.130	5.48e4	8.64e4	95.8	-4.2	0.634	bb
2	200526D2_3	100	1.07	NO	37.79	1.130	5.77e4	8.85e4	98.5	-1.5	0.652	bd
3	200526D2_4	100	1.09	NO	37.78	1.130	5.98e4	9.66e4	93.5	-6.5	0.619	bd
4	200526D2_5	100	1.05	NO	37.78	1.129	6.34e4	9.47e4	101	1.2	0.669	bd
5	200526D2_6	100	1.08	NO	37.78	1.129	6.79e4	9.90e4	104	3.7	0.687	bd
6	200526D2_7	100	1.02	NO	37.79	1.129	6.37e4	8.98e4	107	7.3	0.710	bb

Compound name: 13C-OCDD

Response Factor: 0.608407

RRF SD: 0.049423, Relative SD: 8.12335

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	200526D2_2	200	0.90	NO	41.07	1.228	1.01e5	8.64e4	192	-4.0	0.584	bd
2	200526D2_3	200	0.91	NO	41.08	1.228	1.05e5	8.85e4	194	-2.8	0.591	bd
3	200526D2_4	200	0.90	NO	41.08	1.228	1.09e5	9.66e4	186	-6.9	0.567	bb
4	200526D2_5	200	0.91	NO	41.08	1.228	1.13e5	9.47e4	196	-2.2	0.595	bb
5	200526D2_6	200	0.88	NO	41.08	1.228	1.20e5	9.90e4	200	-0.1	0.608	bb
6	200526D2_7	200	0.90	NO	41.10	1.228	1.27e5	8.98e4	232	15.9	0.705	bb

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.06769

RRF SD: 0.0327362, Relative SD: 3.06607

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	200526D2_2	100	0.81	NO	25.38	0.992	1.74e5	1.63e5	99.9	-0.1	1.07	bb
2	200526D2_3	100	0.80	NO	25.39	0.992	1.69e5	1.56e5	102	1.7	1.09	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	200526D2_4	100	0.77	NO	25.39	0.991	1.83e5	1.74e5	98.6	-1.4	1.05	bb
4	200526D2_5	100	0.82	NO	25.39	0.992	1.83e5	1.66e5	103	3.3	1.10	bd
5	200526D2_6	100	0.79	NO	25.39	0.992	1.93e5	1.78e5	102	1.7	1.09	bb
6	200526D2_7	100	0.79	NO	25.39	0.992	1.67e5	1.65e5	94.7	-5.3	1.01	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.825913

RRF SD: 0.0132817, Relative SD: 1.60813

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	200526D2_2	100	1.69	NO	29.44	1.150	1.35e5	1.63e5	101	0.5	0.830	bb
2	200526D2_3	100	1.61	NO	29.44	1.150	1.31e5	1.56e5	101	1.4	0.837	bb
3	200526D2_4	100	1.66	NO	29.44	1.149	1.42e5	1.74e5	98.7	-1.3	0.815	bb
4	200526D2_5	100	1.67	NO	29.44	1.150	1.39e5	1.66e5	102	1.7	0.840	bb
5	200526D2_6	100	1.78	NO	29.46	1.151	1.47e5	1.78e5	100	0.2	0.828	MM
6	200526D2_7	100	1.61	NO	29.46	1.151	1.33e5	1.65e5	97.5	-2.5	0.805	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.795997

RRF SD: 0.0108298, Relative SD: 1.36054

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	200526D2_2	100	1.71	NO	30.33	1.185	1.28e5	1.63e5	98.9	-1.1	0.787	bb
2	200526D2_3	100	1.61	NO	30.33	1.184	1.24e5	1.56e5	99.8	-0.2	0.795	bb
3	200526D2_4	100	1.68	NO	30.33	1.184	1.40e5	1.74e5	101	1.1	0.804	bb
4	200526D2_5	100	1.69	NO	30.33	1.184	1.33e5	1.66e5	101	0.6	0.801	bb
5	200526D2_6	100	1.64	NO	30.33	1.184	1.44e5	1.78e5	102	1.6	0.809	bb
6	200526D2_7	100	1.68	NO	30.35	1.185	1.29e5	1.65e5	98.0	-2.0	0.780	bb

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 1.07518

RRF SD: 0.0306015, Relative SD: 2.84619

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	200526D2_2	100	0.50	NO	33.03	0.988	9.20e4	8.64e4	99.1	-0.9	1.07	bd
2	200526D2_3	100	0.49	NO	33.04	0.988	9.26e4	8.85e4	97.3	-2.7	1.05	bd
3	200526D2_4	100	0.50	NO	33.04	0.988	1.02e5	9.66e4	98.2	-1.8	1.06	bd
4	200526D2_5	100	0.48	NO	33.04	0.988	1.00e5	9.47e4	98.3	-1.7	1.06	bd
5	200526D2_6	100	0.50	NO	33.04	0.988	1.09e5	9.90e4	102	2.5	1.10	bd
6	200526D2_7	100	0.51	NO	33.05	0.988	1.01e5	8.98e4	105	4.5	1.12	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.12454

RRF SD: 0.0257818, Relative SD: 2.29265

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	200526D2_2	100	0.50	NO	33.16	0.991	9.80e4	8.64e4	101	0.9	1.14	db
2	200526D2_3	100	0.49	NO	33.17	0.991	9.78e4	8.85e4	98.2	-1.8	1.10	db
3	200526D2_4	100	0.49	NO	33.16	0.991	1.06e5	9.66e4	97.6	-2.4	1.10	db
4	200526D2_5	100	0.50	NO	33.16	0.991	1.04e5	9.47e4	98.1	-1.9	1.10	db
5	200526D2_6	100	0.50	NO	33.17	0.991	1.14e5	9.90e4	102	2.2	1.15	db
6	200526D2_7	100	0.50	NO	33.17	0.991	1.04e5	8.98e4	103	2.9	1.16	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 1.02476

RRF SD: 0.0294028, Relative SD: 2.86925

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	200526D2_2	100	0.50	NO	33.75	1.009	8.65e4	8.64e4	97.7	-2.3	1.00	bb
2	200526D2_3	100	0.50	NO	33.76	1.009	8.89e4	8.85e4	98.0	-2.0	1.00	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	200526D2_4	100	0.50	NO	33.76	1.010	9.72e4	9.66e4	98.2	-1.8	1.01	bb
4	200526D2_5	100	0.51	NO	33.76	1.009	9.79e4	9.47e4	101	0.9	1.03	bb
5	200526D2_6	100	0.51	NO	33.76	1.009	1.01e5	9.90e4	99.9	-0.1	1.02	bb
6	200526D2_7	100	0.49	NO	33.77	1.009	9.68e4	8.98e4	105	5.3	1.08	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.886846

RRF SD: 0.0429436, Relative SD: 4.84229

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	200526D2_2	100	0.50	NO	34.72	1.038	7.27e4	8.64e4	95.0	-5.0	0.842	bd
2	200526D2_3	100	0.48	NO	34.73	1.038	7.77e4	8.85e4	98.9	-1.1	0.877	bb
3	200526D2_4	100	0.50	NO	34.72	1.038	8.28e4	9.66e4	96.7	-3.3	0.857	bb
4	200526D2_5	100	0.51	NO	34.73	1.038	8.50e4	9.47e4	101	1.3	0.898	bb
5	200526D2_6	100	0.49	NO	34.73	1.038	8.72e4	9.90e4	99.3	-0.7	0.881	bb
6	200526D2_7	100	0.49	NO	34.73	1.038	8.66e4	8.98e4	109	8.8	0.965	bb

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

Response Factor: 0.810858

RRF SD: 0.0328072, Relative SD: 4.04598

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	200526D2_2	100	0.46	NO	36.58	1.094	6.85e4	8.64e4	97.8	-2.2	0.793	bd
2	200526D2_3	100	0.43	NO	36.58	1.093	6.95e4	8.85e4	96.8	-3.2	0.785	bb
3	200526D2_4	100	0.42	NO	36.58	1.094	7.52e4	9.66e4	95.9	-4.1	0.778	bb
4	200526D2_5	100	0.43	NO	36.58	1.093	7.76e4	9.47e4	101	1.1	0.819	bb
5	200526D2_6	100	0.44	NO	36.59	1.094	8.15e4	9.90e4	102	1.5	0.823	bb
6	200526D2_7	100	0.44	NO	36.59	1.093	7.78e4	8.98e4	107	6.8	0.866	bb

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.598269

RRF SD: 0.0407134, Relative SD: 6.8052

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	200526D2_2	100	0.44	NO	38.32	1.146	4.95e4	8.64e4	95.8	-4.2	0.573	bb
2	200526D2_3	100	0.41	NO	38.33	1.146	5.07e4	8.85e4	95.8	-4.2	0.573	bb
3	200526D2_4	100	0.44	NO	38.33	1.146	5.43e4	9.66e4	94.0	-6.0	0.562	bb
4	200526D2_5	100	0.43	NO	38.32	1.145	5.65e4	9.47e4	99.7	-0.3	0.596	bb
5	200526D2_6	100	0.41	NO	38.33	1.146	6.06e4	9.90e4	102	2.3	0.612	bb
6	200526D2_7	100	0.44	NO	38.34	1.146	6.04e4	8.98e4	112	12.4	0.673	bb

Compound name: 13C-OCDF

Response Factor: 0.752175

RRF SD: 0.0804491, Relative SD: 10.6955

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	200526D2_2	200	0.92	NO	41.30	1.235	1.17e5	8.64e4	180	-10.0	0.677	bb
2	200526D2_3	200	0.91	NO	41.31	1.235	1.25e5	8.85e4	188	-5.9	0.708	bd
3	200526D2_4	200	0.88	NO	41.30	1.235	1.37e5	9.66e4	189	-5.6	0.710	bb
4	200526D2_5	200	0.89	NO	41.31	1.235	1.39e5	9.47e4	195	-2.4	0.734	bb
5	200526D2_6	200	0.88	NO	41.31	1.235	1.55e5	9.90e4	209	4.3	0.784	bb
6	200526D2_7	200	0.88	NO	41.32	1.235	1.61e5	8.98e4	239	19.6	0.899	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.24297

RRF SD: 0.0962716, Relative SD: 7.74527

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	200526D2_2	0.250			26.16	1.022	2.84e2	9.16e4	0.249	-0.3	1.24	bb
2	200526D2_3	0.500			26.17	1.022	5.32e2	8.84e4	0.484	-3.2	1.20	bb

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Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200526D2_4	2.00			26.19	1.022	2.19e3	9.44e4	1.87	-6.7	1.16	bb
4	200526D2_5	10.0			26.19	1.023	1.06e4	9.24e4	9.23	-7.7	1.15	bb
5	200526D2_6	40.0			26.19	1.023	4.98e4	9.49e4	42.2	5.5	1.31	bd
6	200526D2_7	200			26.19	1.023	2.34e5	8.37e4	225	12.5	1.40	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	200526D2_2	100	0.78	NO	25.59	1.000	9.16e4	9.16e4	100	0.0	1.00	bb
2	200526D2_3	100	0.80	NO	25.61	1.000	8.84e4	8.84e4	100	0.0	1.00	bb
3	200526D2_4	100	0.82	NO	25.62	1.000	9.44e4	9.44e4	100	0.0	1.00	bb
4	200526D2_5	100	0.78	NO	25.61	1.000	9.24e4	9.24e4	100	0.0	1.00	bb
5	200526D2_6	100	0.79	NO	25.61	1.000	9.49e4	9.49e4	100	0.0	1.00	bb
6	200526D2_7	100	0.81	NO	25.61	1.000	8.37e4	8.37e4	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	200526D2_2	100	0.80	NO	24.20	1.000	1.63e5	1.63e5	100	0.0	1.00	bd
2	200526D2_3	100	0.81	NO	24.20	1.000	1.56e5	1.56e5	100	0.0	1.00	bb
3	200526D2_4	100	0.77	NO	24.22	1.000	1.74e5	1.74e5	100	0.0	1.00	bb
4	200526D2_5	100	0.81	NO	24.22	1.000	1.66e5	1.66e5	100	0.0	1.00	bb
5	200526D2_6	100	0.78	NO	24.22	1.000	1.78e5	1.78e5	100	0.0	1.00	bb
6	200526D2_7	100	0.79	NO	24.22	1.000	1.65e5	1.65e5	100	0.0	1.00	bb

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Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	0.50	NO	33.45	1.000	8.64e4	8.64e4	100	0.0	1.00	bb
2	200526D2_3	100	0.50	NO	33.46	1.000	8.85e4	8.85e4	100	0.0	1.00	bb
3	200526D2_4	100	0.50	NO	33.44	1.000	9.66e4	9.66e4	100	0.0	1.00	bb
4	200526D2_5	100	0.50	NO	33.46	1.000	9.47e4	9.47e4	100	0.0	1.00	bb
5	200526D2_6	100	0.50	NO	33.46	1.000	9.90e4	9.90e4	100	0.0	1.00	bb
6	200526D2_7	100	0.50	NO	33.47	1.000	8.98e4	8.98e4	100	0.0	1.00	bb

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

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Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt.mdb 27 Apr 2020 14:17:24
Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Name: 200526D2_2, Date: 26-May-2020, Time: 20:57:24, ID: ST200526D2-1 1613 CS0 20E0704, Description: 1613 CS0 20E0704

	# 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	2.84e2	0.87	NO	0.986	1.000	26.174	26.16	1.001	1.001	0.25082	100	0.0587	0.251
2	2 1,2,3,7,8-PeCDD	8.84e2	0.63	NO	0.964	1.000	30.630	30.61	1.001	1.000	1.1376	91.0	0.0494	1.14
3	3 1,2,3,4,7,8-HxCDD	7.92e2	1.27	NO	1.16	1.000	33.938	33.95	1.000	1.001	1.0939	87.5	0.126	1.09
4	4 1,2,3,6,7,8-HxCDD	8.39e2	1.12	NO	1.01	1.000	34.038	34.05	1.000	1.000	1.1739	93.9	0.129	1.17
5	5 1,2,3,7,8,9-HxCDD	7.73e2	1.26	NO	1.01	1.000	34.368	34.37	1.001	1.001	1.1033	88.3	0.130	1.10
6	6 1,2,3,4,6,7,8-HpCDD	6.60e2	1.15	NO	0.997	1.000	37.791	37.78	1.000	1.000	1.2084	96.7	0.151	1.21
7	7 OCDD	1.13e3	0.88	NO	1.01	1.000	41.071	41.07	1.000	1.000	2.2052	88.2	0.279	2.21
8	8 2,3,7,8-TCDF	3.10e2	0.88	NO	0.833	1.000	25.403	25.39	1.001	1.001	0.21415	85.7	0.0357	0.214
9	9 1,2,3,7,8-PeCDF	1.40e3	1.49	NO	0.965	1.000	29.462	29.44	1.001	1.000	1.0737	85.9	0.0327	1.07
10	10 2,3,4,7,8-PeCDF	1.52e3	1.77	NO	1.01	1.000	30.357	30.33	1.001	1.000	1.1730	93.8	0.0340	1.17
11	11 1,2,3,4,7,8-HxCDF	1.15e3	1.40	NO	1.09	1.000	33.028	33.04	1.000	1.000	1.1416	91.3	0.0944	1.14
12	12 1,2,3,6,7,8-HxCDF	1.12e3	1.13	NO	1.07	1.000	33.170	33.17	1.000	1.000	1.0716	85.7	0.0977	1.07
13	13 2,3,4,6,7,8-HxCDF	1.11e3	1.33	NO	1.15	1.000	33.786	33.77	1.001	1.001	1.1153	89.2	0.104	1.12
14	14 1,2,3,7,8,9-HxCDF	9.51e2	1.17	NO	1.11	1.000	34.718	34.73	1.000	1.000	1.1738	93.9	0.140	1.17
15	15 1,2,3,4,6,7,8-HpCDF	8.87e2	1.02	NO	1.16	1.000	36.620	36.59	1.001	1.000	1.1182	89.5	0.0807	1.12
16	16 1,2,3,4,7,8,9-HpCDF	6.79e2	0.99	NO	1.35	1.000	38.317	38.34	1.000	1.001	1.0165	81.3	0.0850	1.02
17	17 OCDF	1.33e3	0.88	NO	0.949	1.000	41.302	41.31	1.000	1.000	2.3903	95.6	0.0950	2.39
18	18 13C-2,3,7,8-TCDD	1.15e5	0.80	NO	1.26	1.000	26.257	26.14	1.026	1.022	99.358	99.4	0.221	
19	19 13C-1,2,3,7,8-PeCDD	8.06e4	0.63	NO	0.921	1.000	30.761	30.61	1.202	1.196	95.518	95.5	0.333	
20	20 13C-1,2,3,4,7,8-HxCDD	6.23e4	1.37	NO	0.707	1.000	33.913	33.93	1.014	1.014	101.95	102	0.450	
21	21 13C-1,2,3,6,7,8-HxCDD	7.10e4	1.30	NO	0.829	1.000	34.024	34.04	1.017	1.018	99.157	99.2	0.384	
22	22 13C-1,2,3,7,8,9-HxCDD	6.94e4	1.27	NO	0.808	1.000	34.295	34.33	1.025	1.027	99.532	99.5	0.394	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.48e4	1.03	NO	0.662	1.000	37.760	37.78	1.129	1.130	95.829	95.8	0.569	
24	24 13C-OCDD	1.01e5	0.90	NO	0.608	1.000	40.783	41.07	1.219	1.228	192.09	96.0	0.500	
25	25 13C-2,3,7,8-TCDF	1.74e5	0.81	NO	1.07	1.000	25.336	25.38	0.990	0.992	99.942	99.9	0.244	
26	26 13C-1,2,3,7,8-PeCDF	1.35e5	1.69	NO	0.826	1.000	29.576	29.44	1.156	1.150	100.54	101	0.377	
27	27 13C-2,3,4,7,8-PeCDF	1.28e5	1.71	NO	0.796	1.000	30.480	30.33	1.191	1.185	98.865	98.9	0.391	
28	28 13C-1,2,3,4,7,8-HxCDF	9.20e4	0.50	NO	1.08	1.000	33.044	33.03	0.988	0.988	99.129	99.1	0.373	
29	29 13C-1,2,3,6,7,8-HxCDF	9.80e4	0.50	NO	1.12	1.000	33.178	33.16	0.992	0.991	100.94	101	0.357	
30	30 13C-2,3,4,6,7,8-HxCDF	8.65e4	0.50	NO	1.02	1.000	33.750	33.75	1.009	1.009	97.733	97.7	0.391	
31	31 13C-1,2,3,7,8,9-HxCDF	7.27e4	0.50	NO	0.887	1.000	34.649	34.72	1.036	1.038	94.955	95.0	0.452	

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

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Name: 200526D2_2, Date: 26-May-2020, Time: 20:57:24, ID: ST200526D2-1 1613 CS0 20E0704, Description: 1613 CS0 20E0704

#	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	6.85e4	0.46	NO	0.811	1.000	36.355	36.58	1.087	1.094	97.849	97.8	0.526	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.95e4	0.44	NO	0.598	1.000	38.362	38.32	1.147	1.146	95.783	95.8	0.714	
34	34 13C-OCDF	1.17e5	0.92	NO	0.752	1.000	40.937	41.30	1.224	1.235	180.07	90.0	0.391	
35	35 37Cl-2,3,7,8-TCDD	2.84e2			1.24	1.000	26.254	26.16	1.026	1.022	0.24914	99.7	0.0830	
36	36 13C-1,2,3,4-TCDD	9.16e4	0.78	NO	1.00	1.000	25.480	25.59	1.000	1.000	100.00	100	0.279	
37	37 13C-1,2,3,4-TCDF	1.63e5	0.80	NO	1.00	1.000	24.020	24.20	1.000	1.000	100.00	100	0.261	
38	38 13C-1,2,3,4,6,9-HxCDF	8.64e4	0.50	NO	1.00	1.000	33.530	33.45	1.000	1.000	100.00	100	0.401	

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

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Name: 200526D2_3, Date: 26-May-2020, Time: 21:42:35, ID: ST200526D2-2 1613 CS1 20E0705, Description: 1613 CS1 20E0705

#	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	6.01e2	0.86	NO	0.986	1.000	26.189	26.19	1.001	1.001	0.54033	108	0.0499	0.540
2	2 1,2,3,7,8-PeCDD	2.07e3	0.67	NO	0.964	1.000	30.630	30.63	1.001	1.001	2.6312	105	0.0478	2.63
3	3 1,2,3,4,7,8-HxCDD	1.90e3	1.28	NO	1.16	1.000	33.949	33.94	1.000	1.000	2.6361	105	0.161	2.64
4	4 1,2,3,6,7,8-HxCDD	1.99e3	1.30	NO	1.01	1.000	34.049	34.06	1.000	1.000	2.7300	109	0.152	2.73
5	5 1,2,3,7,8,9-HxCDD	2.00e3	1.15	NO	1.01	1.000	34.379	34.34	1.001	1.000	2.7806	111	0.168	2.78
6	6 1,2,3,4,6,7,8-HpCDD	1.56e3	0.96	NO	0.997	1.000	37.802	37.79	1.000	1.000	2.7143	109	0.130	2.71
7	7 OCDD	2.77e3	0.83	NO	1.01	1.000	41.082	41.09	1.000	1.000	5.2154	104	0.0861	5.22
8	8 2,3,7,8-TCDF	7.87e2	0.67	NO	0.833	1.000	25.418	25.39	1.001	1.000	0.55788	112	0.0358	0.558
9	9 1,2,3,7,8-PeCDF	3.25e3	1.57	NO	0.965	1.000	29.462	29.46	1.001	1.001	2.5832	103	0.0507	2.58
10	10 2,3,4,7,8-PeCDF	3.23e3	1.76	NO	1.01	1.000	30.357	30.35	1.001	1.001	2.5827	103	0.0469	2.58
11	11 1,2,3,4,7,8-HxCDF	2.67e3	1.30	NO	1.09	1.000	33.039	33.05	1.000	1.000	2.6313	105	0.0562	2.63
12	12 1,2,3,6,7,8-HxCDF	2.72e3	1.24	NO	1.07	1.000	33.181	33.18	1.000	1.000	2.6089	104	0.0564	2.61
13	13 2,3,4,6,7,8-HxCDF	2.72e3	1.26	NO	1.15	1.000	33.797	33.79	1.001	1.001	2.6499	106	0.0619	2.65
14	14 1,2,3,7,8,9-HxCDF	2.35e3	1.32	NO	1.11	1.000	34.729	34.74	1.000	1.000	2.7171	109	0.0781	2.72
15	15 1,2,3,4,6,7,8-HpCDF	2.17e3	1.00	NO	1.16	1.000	36.620	36.61	1.001	1.001	2.7041	108	0.0797	2.70
16	16 1,2,3,4,7,8,9-HpCDF	1.93e3	1.07	NO	1.35	1.000	38.328	38.34	1.000	1.000	2.8124	112	0.0773	2.81
17	17 OCDF	3.26e3	0.90	NO	0.949	1.000	41.313	41.33	1.000	1.001	5.4739	109	0.104	5.47
18	18 13C-2,3,7,8-TCDD	1.13e5	0.81	NO	1.26	1.000	26.273	26.16	1.026	1.021	101.17	101	0.201	
19	19 13C-1,2,3,7,8-PeCDD	8.18e4	0.62	NO	0.921	1.000	30.780	30.61	1.202	1.195	100.44	100	0.159	
20	20 13C-1,2,3,4,7,8-HxCDD	6.18e4	1.35	NO	0.707	1.000	33.924	33.94	1.014	1.014	98.790	98.8	0.352	
21	21 13C-1,2,3,6,7,8-HxCDD	7.22e4	1.29	NO	0.829	1.000	34.035	34.05	1.017	1.018	98.440	98.4	0.300	
22	22 13C-1,2,3,7,8,9-HxCDD	7.14e4	1.30	NO	0.808	1.000	34.306	34.34	1.025	1.027	99.788	99.8	0.308	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.77e4	1.07	NO	0.662	1.000	37.772	37.79	1.129	1.130	98.522	98.5	0.467	
24	24 13C-OCDD	1.05e5	0.91	NO	0.608	1.000	40.796	41.08	1.219	1.228	194.33	97.2	0.364	
25	25 13C-2,3,7,8-TCDF	1.69e5	0.80	NO	1.07	1.000	25.351	25.39	0.990	0.992	101.66	102	0.300	
26	26 13C-1,2,3,7,8-PeCDF	1.31e5	1.61	NO	0.826	1.000	29.594	29.44	1.156	1.150	101.38	101	0.360	
27	27 13C-2,3,4,7,8-PeCDF	1.24e5	1.61	NO	0.796	1.000	30.498	30.33	1.191	1.184	99.821	99.8	0.374	
28	28 13C-1,2,3,4,7,8-HxCDF	9.26e4	0.49	NO	1.08	1.000	33.055	33.04	0.988	0.988	97.298	97.3	0.343	
29	29 13C-1,2,3,6,7,8-HxCDF	9.78e4	0.49	NO	1.12	1.000	33.188	33.17	0.992	0.991	98.242	98.2	0.328	
30	30 13C-2,3,4,6,7,8-HxCDF	8.89e4	0.50	NO	1.02	1.000	33.760	33.76	1.009	1.009	97.998	98.0	0.360	
31	31 13C-1,2,3,7,8,9-HxCDF	7.77e4	0.48	NO	0.887	1.000	34.660	34.73	1.036	1.038	98.922	98.9	0.416	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.95e4	0.43	NO	0.811	1.000	36.367	36.58	1.087	1.093	96.780	96.8	0.482	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.07e4	0.41	NO	0.598	1.000	38.374	38.33	1.147	1.146	95.807	95.8	0.654	
34	34 13C-OCDF	1.25e5	0.91	NO	0.752	1.000	40.950	41.31	1.224	1.235	188.25	94.1	0.382	

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

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Name: 200526D2_3, Date: 26-May-2020, Time: 21:42:35, ID: ST200526D2-2 1613 CS1 20E0705, Description: 1613 CS1 20E0705

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	37Cl-2,3,7,8-TCDD	5.32e2			1.24	1.000	26.270	26.17	1.026	1.022	0.48391	96.8	0.0475	
36	13C-1,2,3,4-TCDD	8.84e4	0.80	NO	1.00	1.000	25.480	25.61	1.000	1.000	100.00	100	0.253	
37	13C-1,2,3,4-TCDF	1.56e5	0.81	NO	1.00	1.000	24.020	24.20	1.000	1.000	100.00	100	0.320	
38	13C-1,2,3,4,6,9-HxCDF	8.85e4	0.50	NO	1.00	1.000	33.530	33.46	1.000	1.000	100.00	100	0.369	

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Name: 200526D2_4, Date: 26-May-2020, Time: 22:27:45, ID: ST200526D2-3 1613 CS2 20E0706, Description: 1613 CS2 20E0706

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.98e3	0.78	NO	0.986	1.000	26.189	26.17	1.001	1.001	1.6636	83.2	0.0493	1.66
2	2 1,2,3,7,8-PeCDD	7.46e3	0.61	NO	0.964	1.000	30.630	30.63	1.001	1.001	8.7578	87.6	0.0659	8.76
3	3 1,2,3,4,7,8-HxCDD	6.57e3	1.21	NO	1.16	1.000	33.949	33.95	1.000	1.000	8.4812	84.8	0.118	8.48
4	4 1,2,3,6,7,8-HxCDD	6.99e3	1.22	NO	1.01	1.000	34.037	34.06	1.000	1.001	8.7639	87.6	0.122	8.76
5	5 1,2,3,7,8,9-HxCDD	6.73e3	1.24	NO	1.01	1.000	34.379	34.36	1.001	1.000	8.8445	88.4	0.132	8.84
6	6 1,2,3,4,6,7,8-HpCDD	5.03e3	1.16	NO	0.997	1.000	37.791	37.79	1.000	1.000	8.4399	84.4	0.225	8.44
7	7 OCDD	9.83e3	0.87	NO	1.01	1.000	41.082	41.09	1.000	1.000	17.713	88.6	0.127	17.7
8	8 2,3,7,8-TCDF	2.82e3	0.69	NO	0.833	1.000	25.418	25.42	1.001	1.001	1.8535	92.7	0.0300	1.85
9	9 1,2,3,7,8-PeCDF	1.19e4	1.58	NO	0.965	1.000	29.462	29.46	1.001	1.001	8.6873	86.9	0.0779	8.69
10	10 2,3,4,7,8-PeCDF	1.19e4	1.67	NO	1.01	1.000	30.357	30.35	1.001	1.001	8.4229	84.2	0.0676	8.42
11	11 1,2,3,4,7,8-HxCDF	9.98e3	1.20	NO	1.09	1.000	33.039	33.05	1.000	1.000	8.9279	89.3	0.0853	8.93
12	12 1,2,3,6,7,8-HxCDF	1.01e4	1.28	NO	1.07	1.000	33.170	33.18	1.000	1.001	8.9581	89.6	0.0836	8.96
13	13 2,3,4,6,7,8-HxCDF	9.76e3	1.23	NO	1.15	1.000	33.797	33.77	1.001	1.000	8.6911	86.9	0.0888	8.69
14	14 1,2,3,7,8,9-HxCDF	8.16e3	1.26	NO	1.11	1.000	34.718	34.74	1.000	1.001	8.8409	88.4	0.123	8.84
15	15 1,2,3,4,6,7,8-HpCDF	7.62e3	1.03	NO	1.16	1.000	36.620	36.59	1.001	1.000	8.7616	87.6	0.136	8.76
16	16 1,2,3,4,7,8,9-HpCDF	6.48e3	0.93	NO	1.35	1.000	38.328	38.34	1.000	1.000	8.8433	88.4	0.142	8.84
17	17 OCDF	1.08e4	0.86	NO	0.949	1.000	41.301	41.32	1.000	1.001	16.599	83.0	0.153	16.6
18	18 13C-2,3,7,8-TCDD	1.21e5	0.79	NO	1.26	1.000	26.288	26.16	1.026	1.021	101.54	102	0.218	
19	19 13C-1,2,3,7,8-PeCDD	8.84e4	0.61	NO	0.921	1.000	30.798	30.61	1.202	1.195	101.65	102	0.227	
20	20 13C-1,2,3,4,7,8-HxCDD	6.66e4	1.30	NO	0.707	1.000	33.913	33.94	1.014	1.015	97.491	97.5	0.335	
21	21 13C-1,2,3,6,7,8-HxCDD	7.92e4	1.32	NO	0.829	1.000	34.024	34.04	1.017	1.018	98.922	98.9	0.286	
22	22 13C-1,2,3,7,8,9-HxCDD	7.54e4	1.32	NO	0.808	1.000	34.295	34.34	1.025	1.027	96.615	96.6	0.293	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.98e4	1.09	NO	0.662	1.000	37.759	37.78	1.129	1.130	93.469	93.5	0.495	
24	24 13C-OCDD	1.09e5	0.90	NO	0.608	1.000	40.783	41.08	1.219	1.228	186.24	93.1	0.514	
25	25 13C-2,3,7,8-TCDF	1.83e5	0.77	NO	1.07	1.000	25.366	25.39	0.990	0.991	98.621	98.6	0.249	
26	26 13C-1,2,3,7,8-PeCDF	1.42e5	1.66	NO	0.826	1.000	29.612	29.44	1.156	1.149	98.731	98.7	0.323	
27	27 13C-2,3,4,7,8-PeCDF	1.40e5	1.68	NO	0.796	1.000	30.516	30.33	1.191	1.184	101.06	101	0.335	
28	28 13C-1,2,3,4,7,8-HxCDF	1.02e5	0.50	NO	1.08	1.000	33.044	33.04	0.988	0.988	98.239	98.2	0.344	
29	29 13C-1,2,3,6,7,8-HxCDF	1.06e5	0.49	NO	1.12	1.000	33.177	33.16	0.992	0.991	97.608	97.6	0.329	
30	30 13C-2,3,4,6,7,8-HxCDF	9.72e4	0.50	NO	1.02	1.000	33.749	33.76	1.009	1.010	98.205	98.2	0.361	
31	31 13C-1,2,3,7,8,9-HxCDF	8.28e4	0.50	NO	0.887	1.000	34.649	34.72	1.036	1.038	96.678	96.7	0.417	
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.52e4	0.42	NO	0.811	1.000	36.355	36.58	1.087	1.094	95.939	95.9	0.509	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.43e4	0.44	NO	0.598	1.000	38.361	38.33	1.147	1.146	93.961	94.0	0.690	
34	34 13C-OCDF	1.37e5	0.88	NO	0.752	1.000	40.937	41.30	1.224	1.235	188.78	94.4	0.403	

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

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Name: 200526D2_4, Date: 26-May-2020, Time: 22:27:45, ID: ST200526D2-3 1613 CS2 20E0706, Description: 1613 CS2 20E0706

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37Cl-2,3,7,8-TCDD	2.19e3			1.24	1.000	26.286	26.19	1.026	1.022	1.8667	93.3	0.0471	
36	36 13C-1,2,3,4-TCDD	9.44e4	0.82	NO	1.00	1.000	25.480	25.62	1.000	1.000	100.00	100	0.275	
37	37 13C-1,2,3,4-TCDF	1.74e5	0.77	NO	1.00	1.000	24.020	24.22	1.000	1.000	100.00	100	0.266	
38	38 13C-1,2,3,4,6,9-HxCDF	9.66e4	0.50	NO	1.00	1.000	33.530	33.44	1.000	1.000	100.00	100	0.370	

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

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Name: 200526D2_5, Date: 26-May-2020, Time: 23:12:55, ID: ST200526D2-4 1613 CS3 20E0707, Description: 1613 CS3 20E0707

#	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	1.00e4	0.82	NO	0.986	1.000	26.189	26.19	1.001	1.001	8.8565	88.6	0.0892	8.86
2	2 1,2,3,7,8-PeCDD	3.66e4	0.62	NO	0.964	1.000	30.630	30.63	1.001	1.001	45.196	90.4	0.155	45.2
3	3 1,2,3,4,7,8-HxCDD	3.52e4	1.26	NO	1.16	1.000	33.949	33.95	1.000	1.000	46.642	93.3	0.250	46.6
4	4 1,2,3,6,7,8-HxCDD	3.48e4	1.29	NO	1.01	1.000	34.038	34.06	1.000	1.001	44.916	89.8	0.257	44.9
5	5 1,2,3,7,8,9-HxCDD	3.36e4	1.26	NO	1.01	1.000	34.379	34.36	1.001	1.000	44.634	89.3	0.279	44.6
6	6 1,2,3,4,6,7,8-HpCDD	2.77e4	1.03	NO	0.997	1.000	37.791	37.79	1.000	1.000	43.896	87.8	0.312	43.9
7	7 OCDD	5.26e4	0.89	NO	1.01	1.000	41.082	41.09	1.000	1.000	92.170	92.2	0.199	92.2
8	8 2,3,7,8-TCDF	1.34e4	0.75	NO	0.833	1.000	25.418	25.41	1.001	1.001	8.7720	87.7	0.0756	8.77
9	9 1,2,3,7,8-PeCDF	6.36e4	1.57	NO	0.965	1.000	29.462	29.46	1.001	1.001	47.409	94.8	0.106	47.4
10	10 2,3,4,7,8-PeCDF	6.33e4	1.58	NO	1.01	1.000	30.357	30.35	1.001	1.001	47.245	94.5	0.0986	47.2
11	11 1,2,3,4,7,8-HxCDF	4.90e4	1.27	NO	1.09	1.000	33.039	33.05	1.000	1.000	44.739	89.5	0.206	44.7
12	12 1,2,3,6,7,8-HxCDF	5.13e4	1.24	NO	1.07	1.000	33.170	33.18	1.000	1.001	46.102	92.2	0.191	46.1
13	13 2,3,4,6,7,8-HxCDF	5.01e4	1.25	NO	1.15	1.000	33.797	33.79	1.001	1.001	44.354	88.7	0.198	44.4
14	14 1,2,3,7,8,9-HxCDF	4.08e4	1.27	NO	1.11	1.000	34.729	34.74	1.000	1.000	43.006	86.0	0.277	43.0
15	15 1,2,3,4,6,7,8-HpCDF	3.96e4	1.03	NO	1.16	1.000	36.620	36.61	1.001	1.001	44.155	88.3	0.249	44.2
16	16 1,2,3,4,7,8,9-HpCDF	3.49e4	1.02	NO	1.35	1.000	38.317	38.34	1.000	1.001	45.801	91.6	0.259	45.8
17	17 OCDF	5.99e4	0.94	NO	0.949	1.000	41.313	41.31	1.000	1.000	90.876	90.9	0.220	90.9
18	18 13C-2,3,7,8-TCDD	1.15e5	0.78	NO	1.26	1.000	26.273	26.16	1.026	1.021	98.768	98.8	0.190	
19	19 13C-1,2,3,7,8-PeCDD	8.41e4	0.63	NO	0.921	1.000	30.780	30.61	1.202	1.195	98.770	98.8	0.204	
20	20 13C-1,2,3,4,7,8-HxCDD	6.49e4	1.33	NO	0.707	1.000	33.924	33.94	1.014	1.014	96.881	96.9	0.410	
21	21 13C-1,2,3,6,7,8-HxCDD	7.68e4	1.35	NO	0.829	1.000	34.035	34.04	1.017	1.017	97.944	97.9	0.350	
22	22 13C-1,2,3,7,8,9-HxCDD	7.47e4	1.30	NO	0.808	1.000	34.306	34.34	1.025	1.027	97.724	97.7	0.359	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.34e4	1.05	NO	0.662	1.000	37.772	37.78	1.129	1.129	101.15	101	0.442	
24	24 13C-OCDD	1.13e5	0.91	NO	0.608	1.000	40.796	41.08	1.219	1.228	195.63	97.8	0.384	
25	25 13C-2,3,7,8-TCDF	1.83e5	0.82	NO	1.07	1.000	25.351	25.39	0.990	0.992	103.34	103	0.227	
26	26 13C-1,2,3,7,8-PeCDF	1.39e5	1.67	NO	0.826	1.000	29.594	29.44	1.156	1.150	101.66	102	0.336	
27	27 13C-2,3,4,7,8-PeCDF	1.33e5	1.69	NO	0.796	1.000	30.498	30.33	1.191	1.184	100.59	101	0.348	
28	28 13C-1,2,3,4,7,8-HxCDF	1.00e5	0.48	NO	1.08	1.000	33.055	33.04	0.988	0.988	98.338	98.3	0.415	
29	29 13C-1,2,3,6,7,8-HxCDF	1.04e5	0.50	NO	1.12	1.000	33.188	33.16	0.992	0.991	98.132	98.1	0.397	
30	30 13C-2,3,4,6,7,8-HxCDF	9.79e4	0.51	NO	1.02	1.000	33.760	33.76	1.009	1.009	100.89	101	0.436	
31	31 13C-1,2,3,7,8,9-HxCDF	8.50e4	0.51	NO	0.887	1.000	34.660	34.73	1.036	1.038	101.29	101	0.503	
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.76e4	0.43	NO	0.811	1.000	36.367	36.58	1.087	1.093	101.06	101	0.441	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.65e4	0.43	NO	0.598	1.000	38.374	38.32	1.147	1.145	99.690	99.7	0.597	
34	34 13C-OCDF	1.39e5	0.89	NO	0.752	1.000	40.950	41.31	1.224	1.235	195.21	97.6	0.341	

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Name: 200526D2_5, Date: 26-May-2020, Time: 23:12:55, ID: ST200526D2-4 1613 CS3 20E0707, Description: 1613 CS3 20E0707

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37Cl-2,3,7,8-TCDD	1.06e4			1.24	1.000	26.270	26.19	1.026	1.023	9.2283	92.3	0.0610	
36	36 13C-1,2,3,4-TCDD	9.24e4	0.78	NO	1.00	1.000	25.480	25.61	1.000	1.000	100.00	100	0.240	
37	37 13C-1,2,3,4-TCDF	1.66e5	0.81	NO	1.00	1.000	24.020	24.22	1.000	1.000	100.00	100	0.242	
38	38 13C-1,2,3,4,6,9-HxCDF	9.47e4	0.50	NO	1.00	1.000	33.530	33.46	1.000	1.000	100.00	100	0.446	

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

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Name: 200526D2_6, Date: 26-May-2020, Time: 23:58:05, ID: ST200526D2-5 1613 CS4 20E0708, Description: 1613 CS4 20E0708

#	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	4.74e4	0.80	NO	0.986	1.000	26.204	26.19	1.001	1.001	39.352	98.4	0.0679	39.4
2	2 1,2,3,7,8-PeCDD	1.76e5	0.62	NO	0.964	1.000	30.630	30.63	1.001	1.001	205.12	103	0.0946	205
3	3 1,2,3,4,7,8-HxCDD	1.72e5	1.25	NO	1.16	1.000	33.949	33.95	1.000	1.000	211.56	106	0.243	212
4	4 1,2,3,6,7,8-HxCDD	1.70e5	1.25	NO	1.01	1.000	34.049	34.06	1.000	1.000	202.09	101	0.251	202
5	5 1,2,3,7,8,9-HxCDD	1.67e5	1.26	NO	1.01	1.000	34.379	34.36	1.001	1.000	204.43	102	0.270	204
6	6 1,2,3,4,6,7,8-HpCDD	1.37e5	1.01	NO	0.997	1.000	37.791	37.79	1.000	1.000	202.23	101	0.407	202
7	7 OCDD	2.65e5	0.87	NO	1.01	1.000	41.082	41.10	1.000	1.001	434.38	109	0.379	434
8	8 2,3,7,8-TCDF	6.45e4	0.75	NO	0.833	1.000	25.418	25.42	1.001	1.001	40.000	100	0.0596	40.0
9	9 1,2,3,7,8-PeCDF	3.04e5	1.59	NO	0.965	1.000	29.482	29.46	1.001	1.000	213.96	107	0.164	214
10	10 2,3,4,7,8-PeCDF	3.00e5	1.59	NO	1.01	1.000	30.357	30.35	1.001	1.001	206.52	103	0.150	207
11	11 1,2,3,4,7,8-HxCDF	2.51e5	1.26	NO	1.09	1.000	33.039	33.05	1.000	1.000	210.60	105	0.248	211
12	12 1,2,3,6,7,8-HxCDF	2.59e5	1.26	NO	1.07	1.000	33.181	33.18	1.000	1.000	213.97	107	0.259	214
13	13 2,3,4,6,7,8-HxCDF	2.53e5	1.26	NO	1.15	1.000	33.797	33.77	1.001	1.000	216.56	108	0.270	217
14	14 1,2,3,7,8,9-HxCDF	2.06e5	1.30	NO	1.11	1.000	34.729	34.74	1.000	1.000	212.53	106	0.338	213
15	15 1,2,3,4,6,7,8-HpCDF	1.97e5	1.04	NO	1.16	1.000	36.631	36.61	1.001	1.000	208.57	104	0.433	209
16	16 1,2,3,4,7,8,9-HpCDF	1.72e5	1.03	NO	1.35	1.000	38.328	38.34	1.000	1.000	210.80	105	0.416	211
17	17 OCDF	3.09e5	0.90	NO	0.949	1.000	41.313	41.32	1.000	1.000	418.90	105	0.339	419
18	18 13C-2,3,7,8-TCDD	1.22e5	0.78	NO	1.26	1.000	26.273	26.17	1.026	1.022	102.09	102	0.179	
19	19 13C-1,2,3,7,8-PeCDD	8.91e4	0.62	NO	0.921	1.000	30.780	30.61	1.202	1.195	101.83	102	0.232	
20	20 13C-1,2,3,4,7,8-HxCDD	7.00e4	1.27	NO	0.707	1.000	33.924	33.94	1.014	1.014	100.01	100	0.380	
21	21 13C-1,2,3,6,7,8-HxCDD	8.35e4	1.35	NO	0.829	1.000	34.035	34.05	1.017	1.018	101.77	102	0.324	
22	22 13C-1,2,3,7,8,9-HxCDD	8.10e4	1.33	NO	0.808	1.000	34.306	34.34	1.025	1.027	101.36	101	0.332	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.79e4	1.08	NO	0.662	1.000	37.772	37.78	1.129	1.129	103.74	104	0.514	
24	24 13C-OCDD	1.20e5	0.88	NO	0.608	1.000	40.796	41.08	1.219	1.228	199.83	99.9	0.503	
25	25 13C-2,3,7,8-TCDF	1.93e5	0.79	NO	1.07	1.000	25.351	25.39	0.990	0.992	101.75	102	0.262	
26	26 13C-1,2,3,7,8-PeCDF	1.47e5	1.78	NO	0.826	1.000	29.594	29.46	1.156	1.151	100.19	100	0.353	
27	27 13C-2,3,4,7,8-PeCDF	1.44e5	1.64	NO	0.796	1.000	30.498	30.33	1.191	1.184	101.62	102	0.366	
28	28 13C-1,2,3,4,7,8-HxCDF	1.09e5	0.50	NO	1.08	1.000	33.055	33.04	0.988	0.988	102.47	102	0.407	
29	29 13C-1,2,3,6,7,8-HxCDF	1.14e5	0.50	NO	1.12	1.000	33.188	33.17	0.992	0.991	102.21	102	0.389	
30	30 13C-2,3,4,6,7,8-HxCDF	1.01e5	0.51	NO	1.02	1.000	33.760	33.76	1.009	1.009	99.881	99.9	0.427	
31	31 13C-1,2,3,7,8,9-HxCDF	8.72e4	0.49	NO	0.887	1.000	34.660	34.73	1.036	1.038	99.350	99.3	0.493	
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.15e4	0.44	NO	0.811	1.000	36.367	36.59	1.087	1.094	101.53	102	0.467	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.06e4	0.41	NO	0.598	1.000	38.374	38.33	1.147	1.146	102.34	102	0.633	
34	34 13C-OCDF	1.55e5	0.88	NO	0.752	1.000	40.950	41.31	1.224	1.235	208.58	104	0.384	

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Name: 200526D2_6, Date: 26-May-2020, Time: 23:58:05, ID: ST200526D2-5 1613 CS4 20E0708, Description: 1613 CS4 20E0708

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37Cl-2,3,7,8-TCDD	4.98e4			1.24	1.000	26.270	26.19	1.026	1.023	42.189	105	0.0815	
36	36 13C-1,2,3,4-TCDD	9.49e4	0.79	NO	1.00	1.000	25.480	25.61	1.000	1.000	100.00	100	0.225	
37	37 13C-1,2,3,4-TCDF	1.78e5	0.78	NO	1.00	1.000	24.020	24.22	1.000	1.000	100.00	100	0.280	
38	38 13C-1,2,3,4,6,9-HxCDF	9.90e4	0.50	NO	1.00	1.000	33.530	33.46	1.000	1.000	100.00	100	0.437	

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Name: 200526D2_7, Date: 27-May-2020, Time: 00:43:15, ID: ST200526D2-6 1613 CS5 20E0709, Description: 1613 CS5 20E0709

#	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	3.68e5	0.80	NO	0.986	1.000	26.204	26.19	1.001	1.001	364.45	121	0.101	364
2	2 1,2,3,7,8-PeCDD	1.40e6	0.63	NO	0.964	1.000	30.650	30.63	1.001	1.000	1848.3	123	0.267	1850
3	3 1,2,3,4,7,8-HxCDD	1.43e6	1.25	NO	1.16	1.000	33.960	33.96	1.000	1.000	1847.5	123	0.492	1850
4	4 1,2,3,6,7,8-HxCDD	1.38e6	1.23	NO	1.01	1.000	34.060	34.07	1.000	1.000	1775.5	118	0.510	1780
5	5 1,2,3,7,8,9-HxCDD	1.39e6	1.24	NO	1.01	1.000	34.390	34.37	1.001	1.000	1808.8	121	0.520	1810
6	6 1,2,3,4,6,7,8-HpCDD	1.16e6	1.03	NO	0.997	1.000	37.802	37.80	1.000	1.000	1821.7	121	0.929	1820
7	7 OCDD	2.27e6	0.89	NO	1.01	1.000	41.104	41.12	1.000	1.000	3544.5	118	0.574	3540
8	8 2,3,7,8-TCDF	5.10e5	0.77	NO	0.833	1.000	25.418	25.42	1.001	1.001	367.11	122	0.101	367
9	9 1,2,3,7,8-PeCDF	2.35e6	1.58	NO	0.965	1.000	29.482	29.48	1.001	1.001	1831.5	122	0.215	1830
10	10 2,3,4,7,8-PeCDF	2.35e6	1.57	NO	1.01	1.000	30.377	30.35	1.001	1.000	1813.0	121	0.210	1810
11	11 1,2,3,4,7,8-HxCDF	1.98e6	1.25	NO	1.09	1.000	33.050	33.06	1.000	1.000	1790.5	119	0.579	1790
12	12 1,2,3,6,7,8-HxCDF	2.01e6	1.25	NO	1.07	1.000	33.181	33.19	1.000	1.001	1817.2	121	0.586	1820
13	13 2,3,4,6,7,8-HxCDF	2.03e6	1.25	NO	1.15	1.000	33.808	33.79	1.001	1.000	1813.2	121	0.622	1810
14	14 1,2,3,7,8,9-HxCDF	1.69e6	1.26	NO	1.11	1.000	34.729	34.75	1.000	1.001	1750.8	117	0.759	1750
15	15 1,2,3,4,6,7,8-HpCDF	1.65e6	1.02	NO	1.16	1.000	36.631	36.62	1.001	1.001	1832.5	122	0.950	1830
16	16 1,2,3,4,7,8,9-HpCDF	1.48e6	1.02	NO	1.35	1.000	38.339	38.34	1.000	1.000	1811.2	121	0.920	1810
17	17 OCDF	2.67e6	0.89	NO	0.949	1.000	41.324	41.33	1.000	1.000	3489.5	116	0.436	3490
18	18 13C-2,3,7,8-TCDD	1.02e5	0.78	NO	1.26	1.000	26.273	26.17	1.026	1.022	97.082	97.1	0.235	
19	19 13C-1,2,3,7,8-PeCDD	7.85e4	0.62	NO	0.921	1.000	30.780	30.63	1.202	1.196	101.79	102	0.196	
20	20 13C-1,2,3,4,7,8-HxCDD	6.66e4	1.32	NO	0.707	1.000	33.936	33.95	1.014	1.014	104.87	105	0.369	
21	21 13C-1,2,3,6,7,8-HxCDD	7.72e4	1.33	NO	0.829	1.000	34.046	34.06	1.017	1.018	103.76	104	0.315	
22	22 13C-1,2,3,7,8,9-HxCDD	7.61e4	1.28	NO	0.808	1.000	34.317	34.36	1.025	1.027	104.98	105	0.323	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.37e4	1.02	NO	0.662	1.000	37.784	37.79	1.129	1.129	107.29	107	0.467	
24	24 13C-OCDD	1.27e5	0.90	NO	0.608	1.000	40.810	41.10	1.219	1.228	231.88	116	0.362	
25	25 13C-2,3,7,8-TCDF	1.67e5	0.79	NO	1.07	1.000	25.351	25.39	0.990	0.992	94.694	94.7	0.249	
26	26 13C-1,2,3,7,8-PeCDF	1.33e5	1.61	NO	0.826	1.000	29.594	29.46	1.156	1.151	97.488	97.5	0.410	
27	27 13C-2,3,4,7,8-PeCDF	1.29e5	1.68	NO	0.796	1.000	30.498	30.35	1.191	1.185	98.043	98.0	0.425	
28	28 13C-1,2,3,4,7,8-HxCDF	1.01e5	0.51	NO	1.08	1.000	33.066	33.05	0.988	0.988	104.52	105	0.398	
29	29 13C-1,2,3,6,7,8-HxCDF	1.04e5	0.50	NO	1.12	1.000	33.199	33.17	0.992	0.991	102.86	103	0.380	
30	30 13C-2,3,4,6,7,8-HxCDF	9.68e4	0.49	NO	1.02	1.000	33.772	33.77	1.009	1.009	105.29	105	0.417	
31	31 13C-1,2,3,7,8,9-HxCDF	8.66e4	0.49	NO	0.887	1.000	34.672	34.73	1.036	1.038	108.80	109	0.482	
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.78e4	0.44	NO	0.811	1.000	36.379	36.59	1.087	1.093	106.85	107	0.442	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.04e4	0.44	NO	0.598	1.000	38.387	38.34	1.147	1.146	112.41	112	0.599	
34	34 13C-OCDF	1.61e5	0.88	NO	0.752	1.000	40.964	41.32	1.224	1.235	239.12	120	0.313	

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

Last Altered: Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time

Printed: Wednesday, May 27, 2020 11:56:15 Pacific Daylight Time

Name: 200526D2_7, Date: 27-May-2020, Time: 00:43:15, ID: ST200526D2-6 1613 CS5 20E0709, Description: 1613 CS5 20E0709

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37Cl-2,3,7,8-TCDD	2.34e5			1.24	1.000	26.270	26.19	1.026	1.023	224.95	112	0.0764	
36	36 13C-1,2,3,4-TCDD	8.37e4	0.81	NO	1.00	1.000	25.480	25.61	1.000	1.000	100.00	100	0.295	
37	37 13C-1,2,3,4-TCDF	1.65e5	0.79	NO	1.00	1.000	24.020	24.22	1.000	1.000	100.00	100	0.266	
38	38 13C-1,2,3,4,6,9-HxCDF	8.98e4	0.50	NO	1.00	1.000	33.530	33.47	1.000	1.000	100.00	100	0.428	

Dataset: Untitled

Last Altered: Wednesday, May 27, 2020 11:57:57 Pacific Daylight Time
Printed: Wednesday, May 27, 2020 11:58:25 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 18 May 2020 14:57:34
Calibration: 27 May 2020 11:57:57

Name: 200526D2_5, Date: 26-May-2020, Time: 23:12:55, ID: ST200526D2-4 1613 CS3 20E0707, Description: 1613 CS3 20E0707

#	Name	RT
1	1,3,6,8-TCDD (First)	22.89
2	1,2,8,9-TCDD (Last)	27.03
3	1,2,4,7,9-PeCDD (First)	28.62
4	1,2,3,8,9-PeCDD (Last)	30.99
5	1,2,4,6,7,9-HxCDD (First)	32.40
6	1,2,3,7,8,9-HxCDD (Last)	34.36
7	1,2,3,4,6,7,9-HpCDD (First)	36.97
8	1,2,3,4,6,7,8-HpCDD (Last)	37.79
9	1,3,6,8-TCDF (First)	20.81
10	1,2,8,9-TCDF (Last)	27.17
11	1,3,4,6,8-PeCDF (First)	27.12
12	1,2,3,8,9-PeCDF (Last)	31.21
13	1,2,3,4,6,8-HxCDF (First)	31.86
14	1,2,3,7,8,9-HxCDF (Last)	34.74
15	1,2,3,4,6,7,8-HpCDF (First)	36.61
16	1,2,3,4,7,8,9-HpCDF (Last)	38.34

Dataset: Untitled

Last Altered: Wednesday, May 27, 2020 11:36:43 Pacific Daylight Time

Printed: Wednesday, May 27, 2020 11:37:00 Pacific Daylight Time

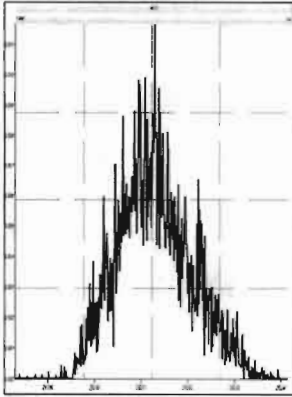
Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt.mdb 27 Apr 2020 14:17:24

Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

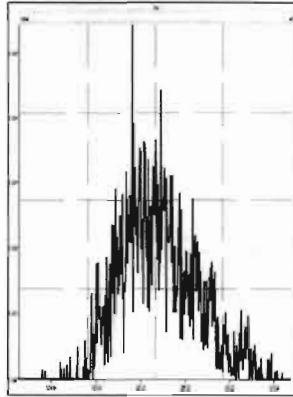
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200526D2_1	SOLVENT BLANK	26-May-20	20:12:13
2	200526D2_2	ST200526D2-1 1613 CS0 20E0704	26-May-20	20:57:24
3	200526D2_3	ST200526D2-2 1613 CS1 20E0705	26-May-20	21:42:35
4	200526D2_4	ST200526D2-3 1613 CS2 20E0706	26-May-20	22:27:45
5	200526D2_5	ST200526D2-4 1613 CS3 20E0707	26-May-20	23:12:55
6	200526D2_6	ST200526D2-5 1613 CS4 20E0708	26-May-20	23:58:05
7	200526D2_7	ST200526D2-6 1613 CS5 20E0709	27-May-20	00:43:15
8	200526D2_8	SOLVENT BLANK	27-May-20	01:28:25
9	200526D2_9	SS200526D2-1 1613 SSS 20E0710	27-May-20	02:13:37
10	200526D2_10	QC200526D2-1 1613 QC OPR COMB NS	27-May-20	02:58:46

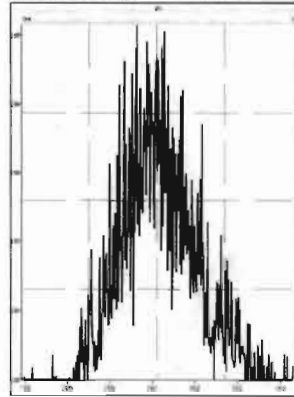
M 292.9824 R 8770



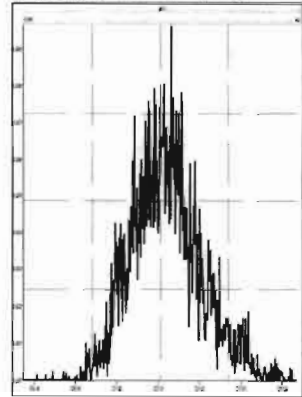
M 304.9824 R 11062



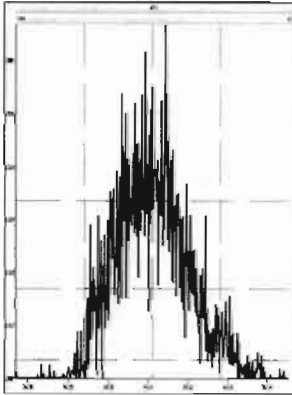
M 318.9792 R 11110



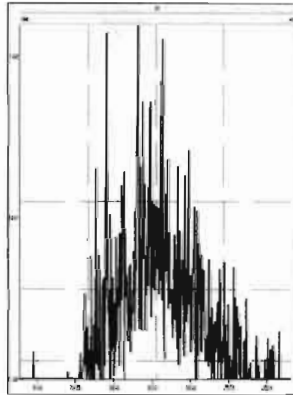
M 330.9792 R 11132



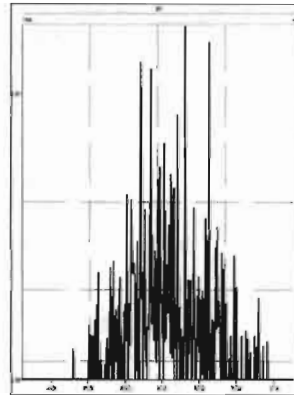
M 342.9792 R 11021



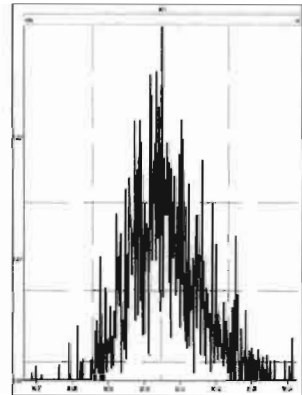
M 354.9792 R 19013



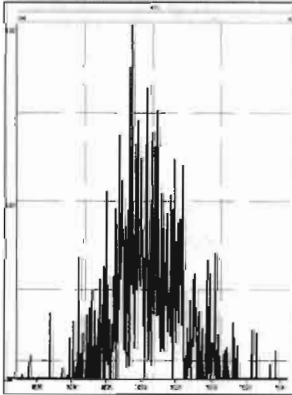
M 366.9792 R 179426



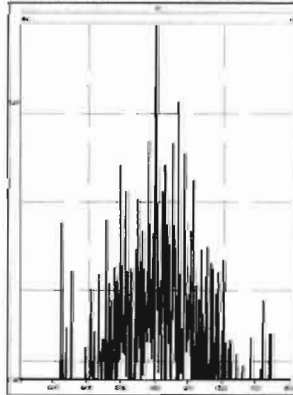
M 380.9760 R 19159



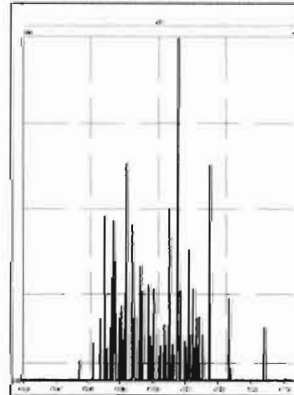
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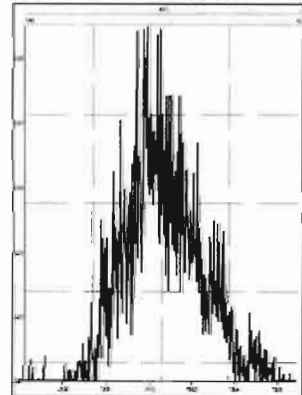
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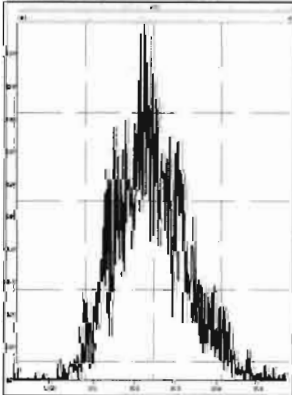
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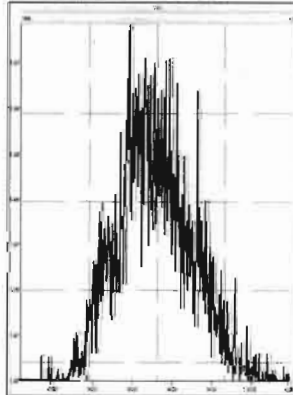
M 318.9792 R 10164



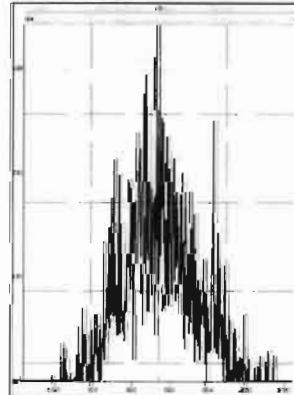
M 330.9792 R 9447



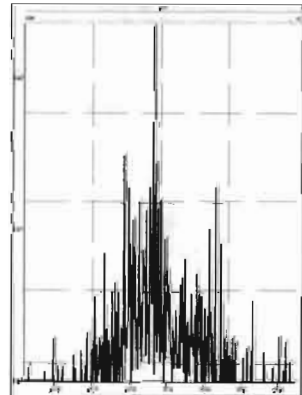
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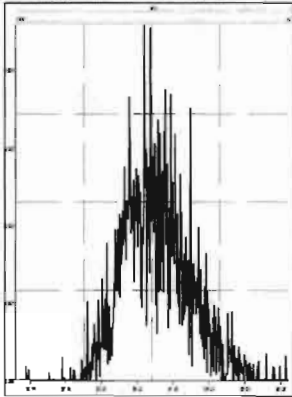
M 354.9792 R 14159



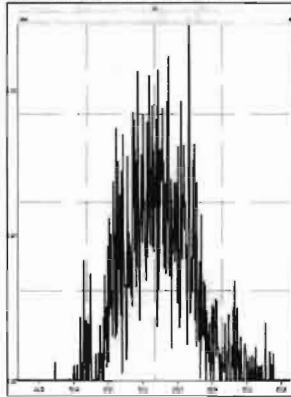
M 366.9792 R 78004



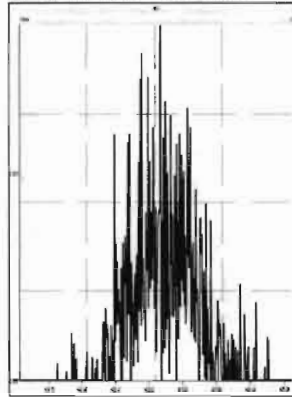
M 380.9760 R 13508



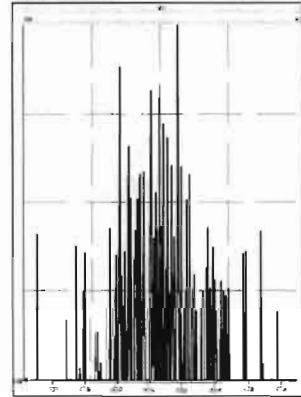
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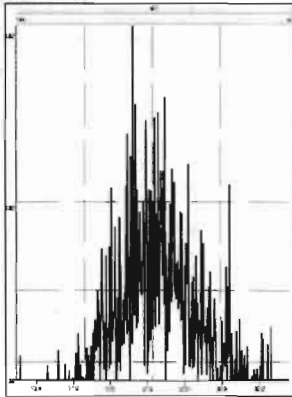
M 404.9760 R 57978



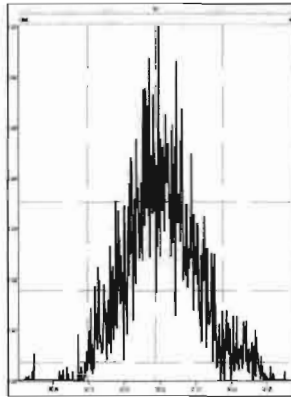
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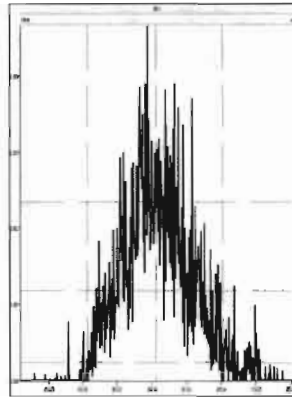
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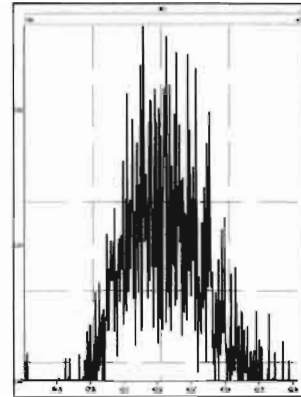
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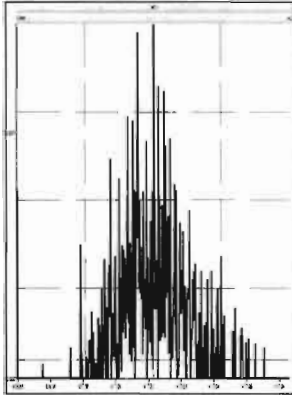
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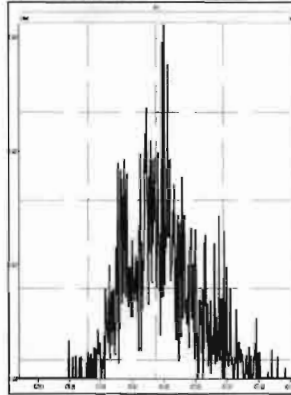
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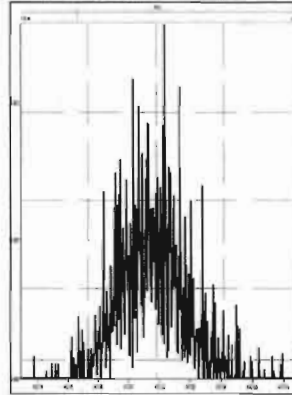
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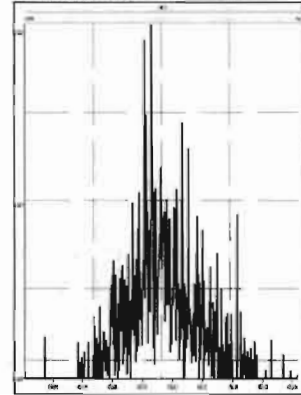
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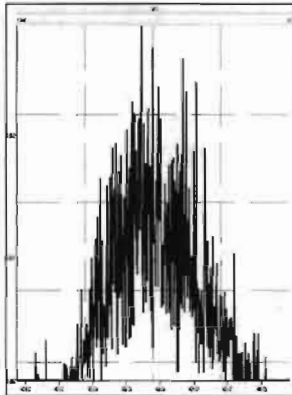
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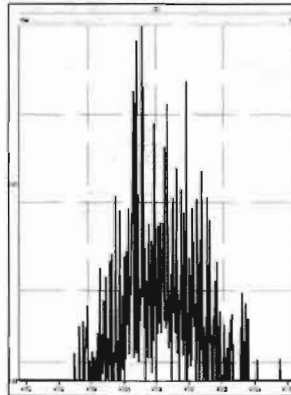
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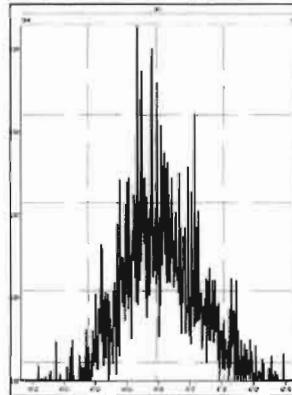
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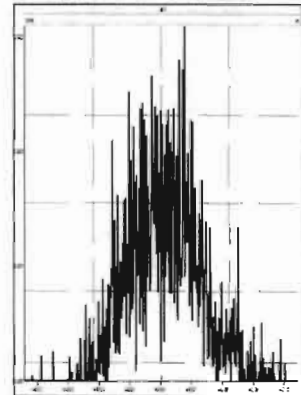
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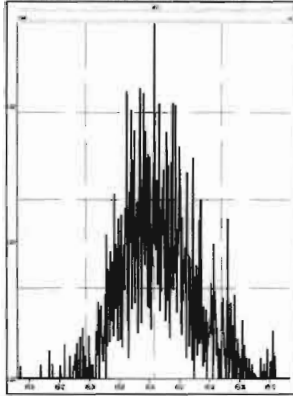
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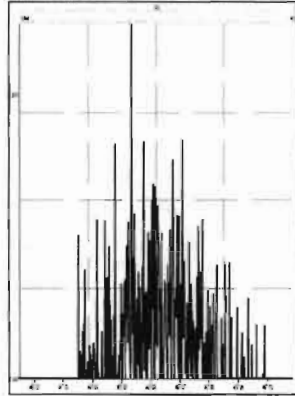
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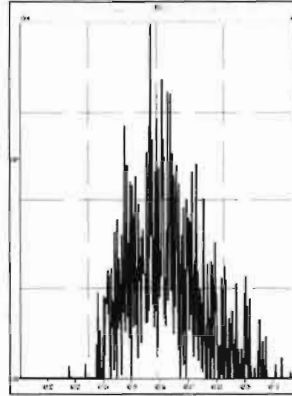
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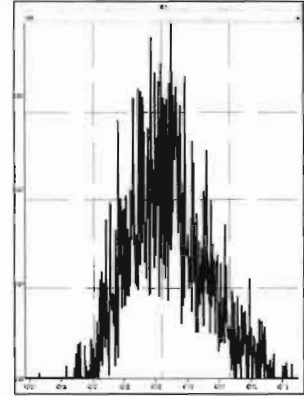
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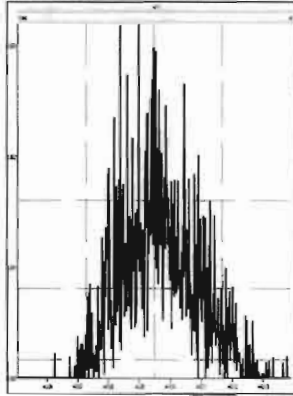
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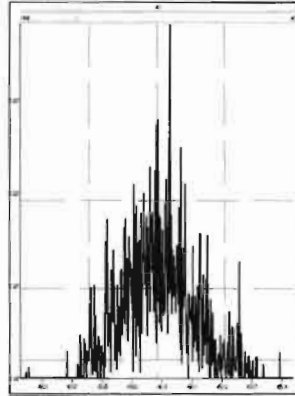
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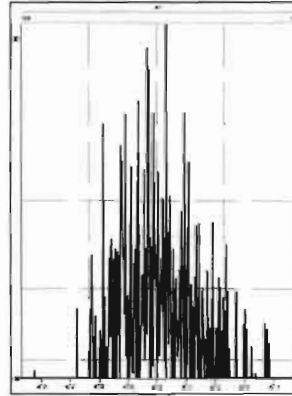
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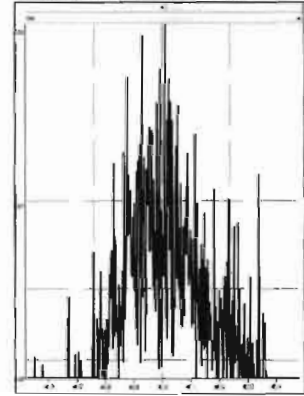
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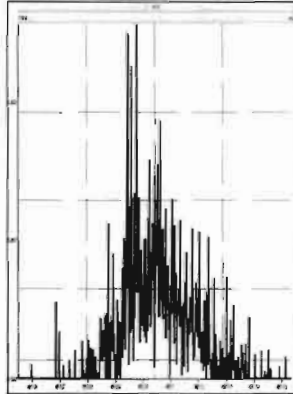
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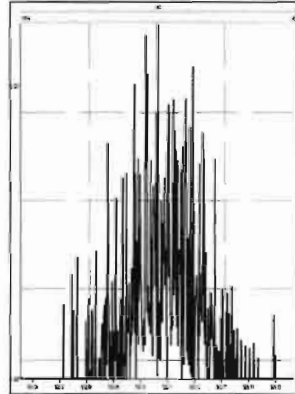
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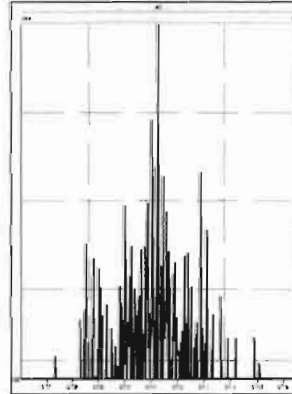
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M 504.9696 R 97853



M 516.9697 R 0

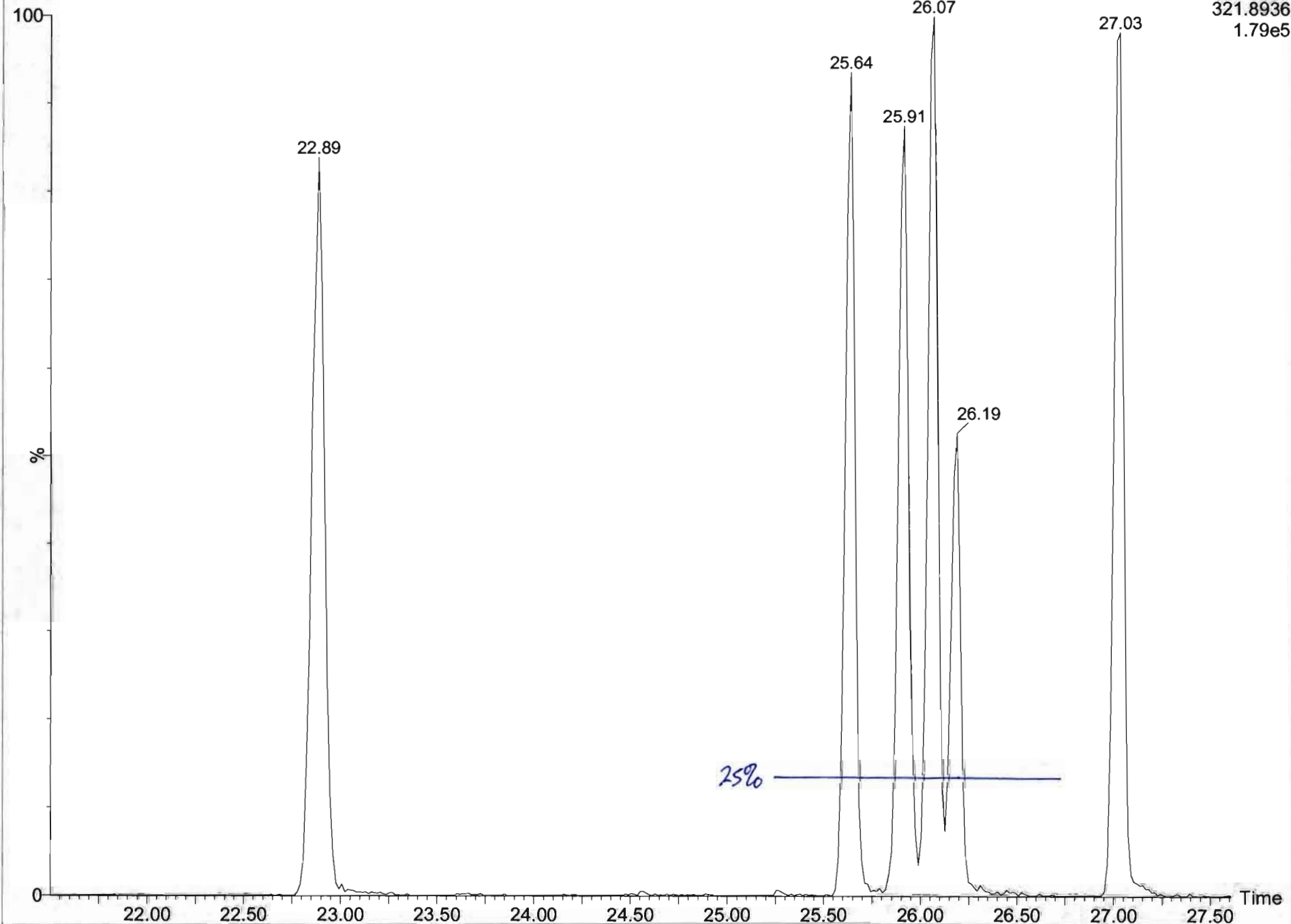


200526D2_5

1: Voltage SIR 15 Channels EI+

321.8936

1.79e5



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

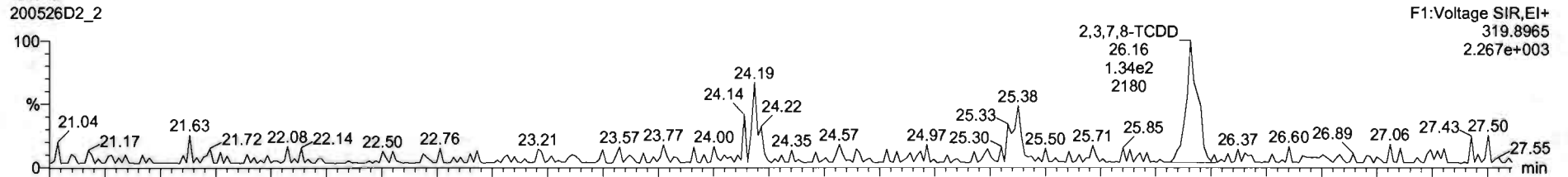
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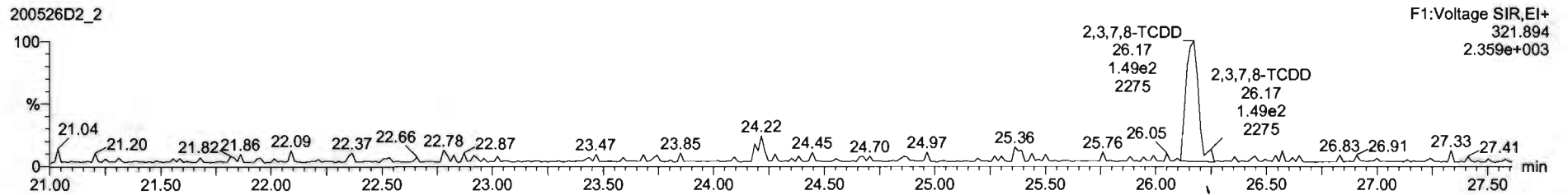
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2,3,7,8-TCDD

200526D2_2

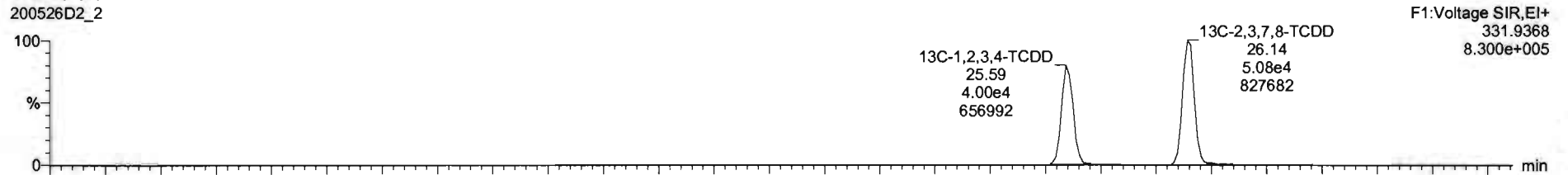


200526D2_2

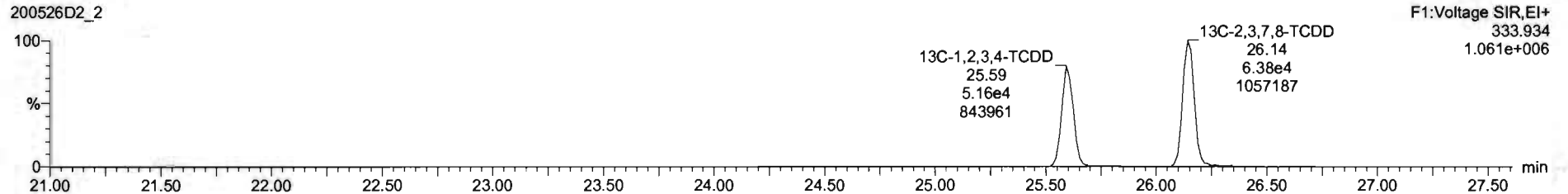


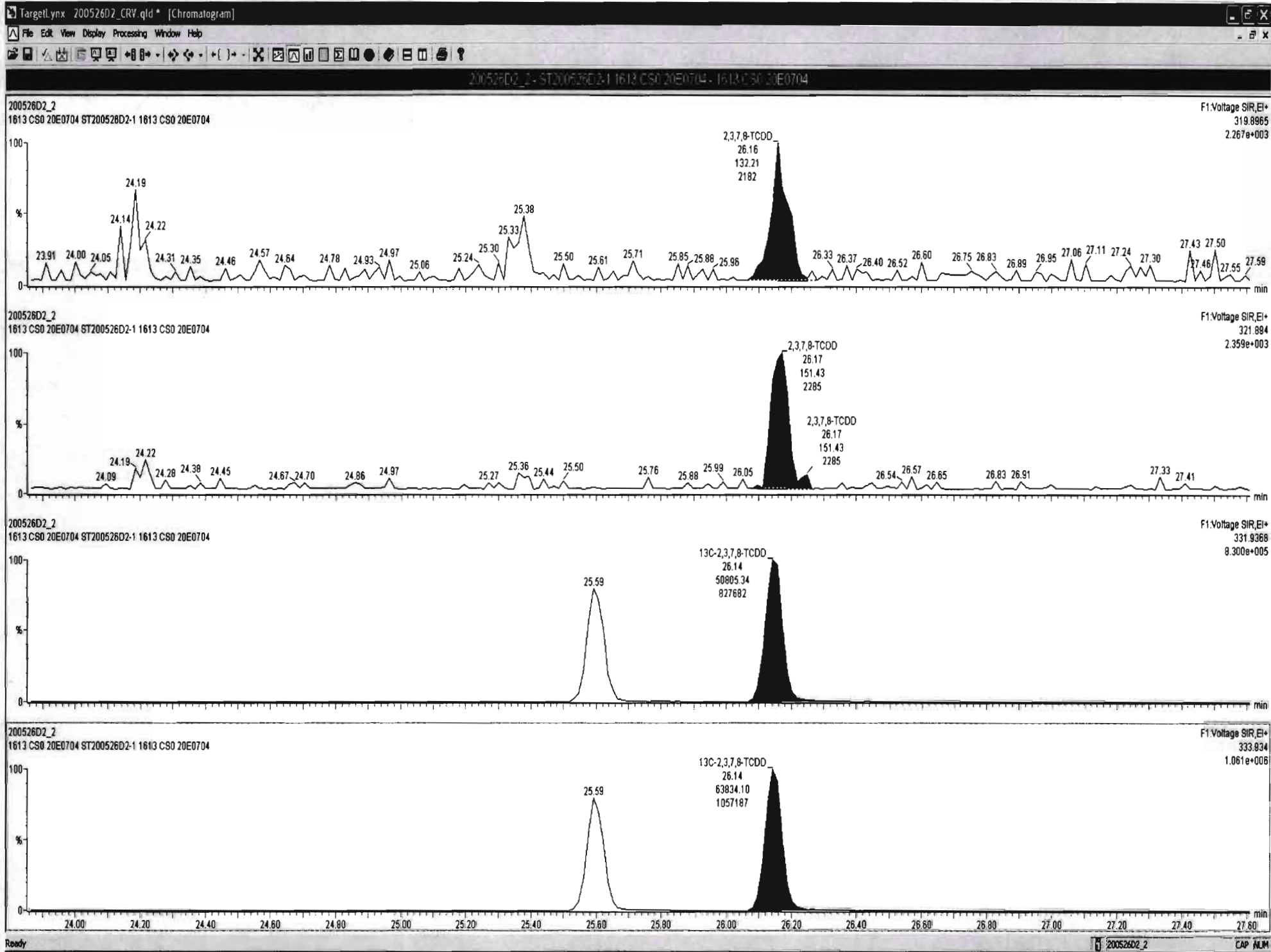
13C-2,3,7,8-TCDD

200526D2_2



200526D2_2



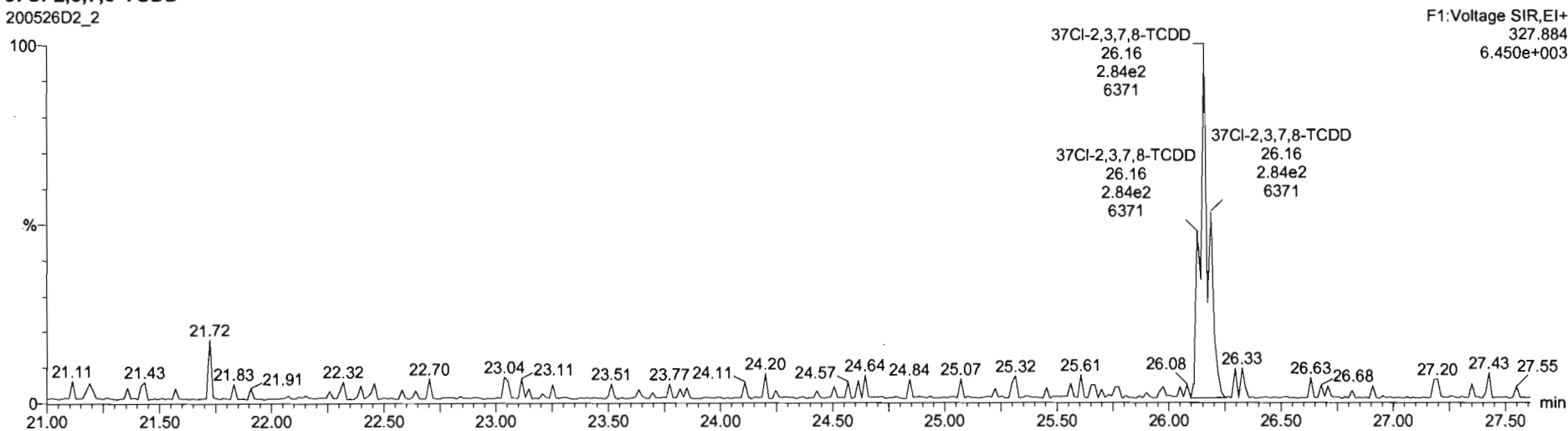


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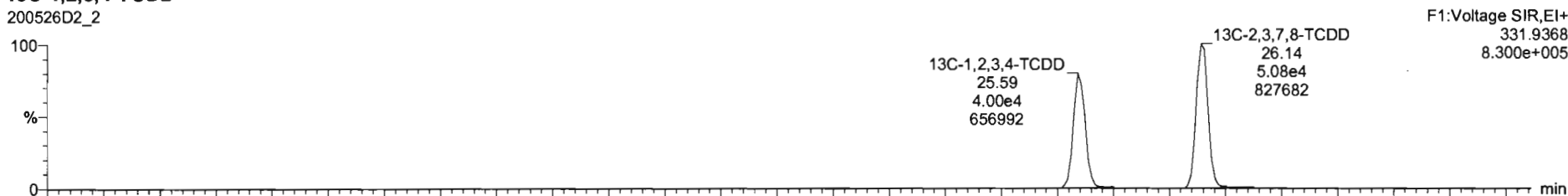
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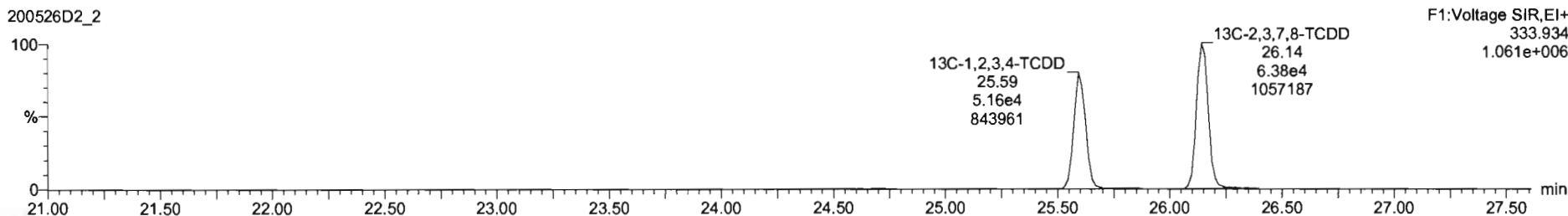
37Cl-2,3,7,8-TCDD
200526D2_2



13C-1,2,3,4-TCDD
200526D2_2



200526D2_2



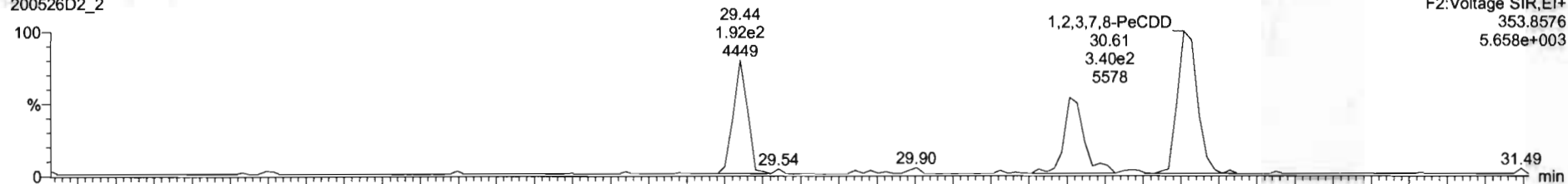
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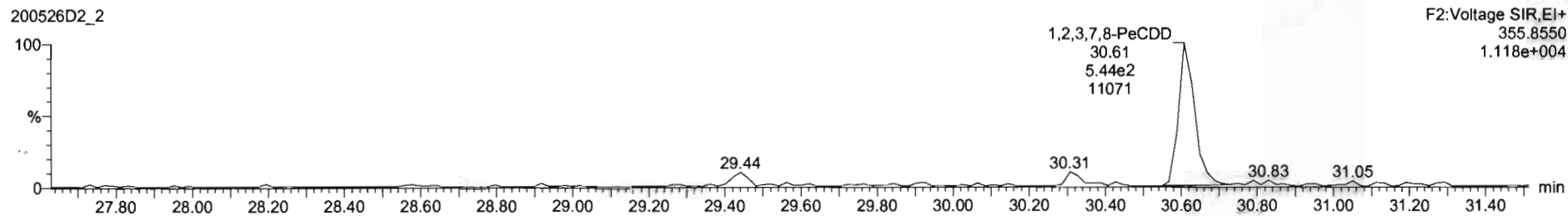
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1,2,3,7,8-PeCDD

200526D2_2

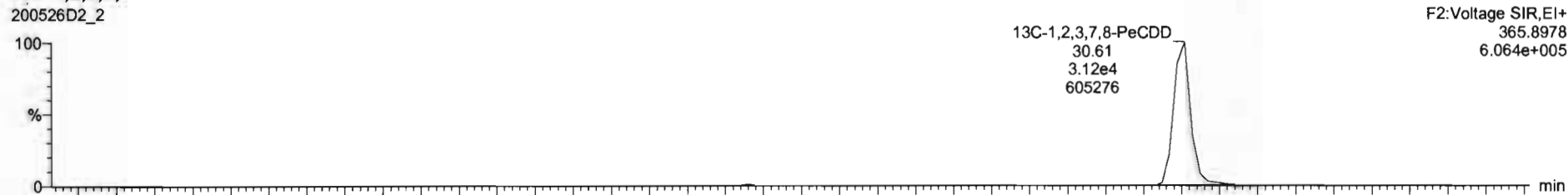


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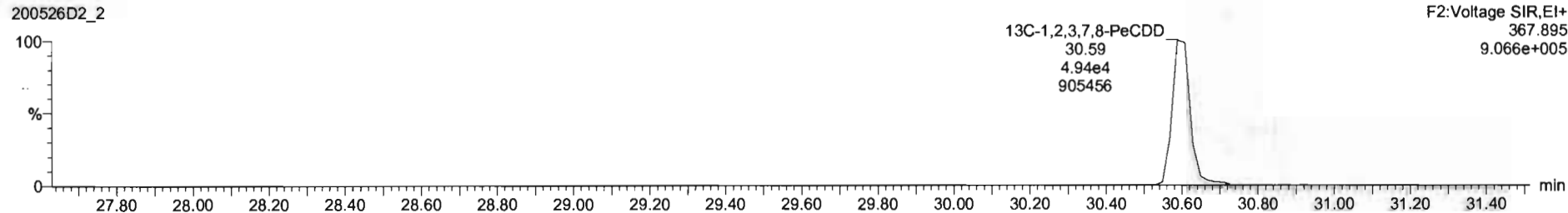


13C-1,2,3,7,8-PeCDD

200526D2_2



200526D2_2



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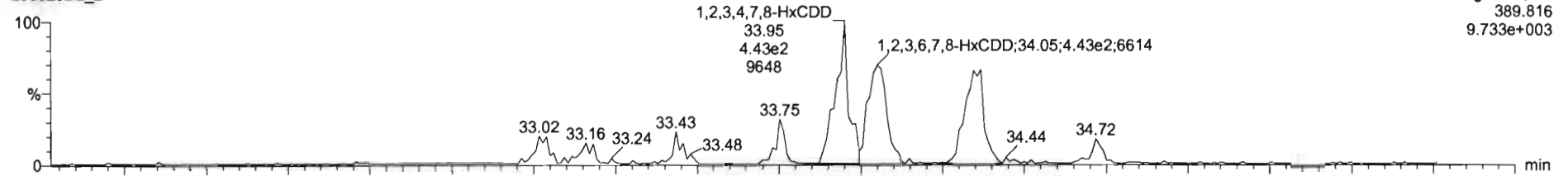
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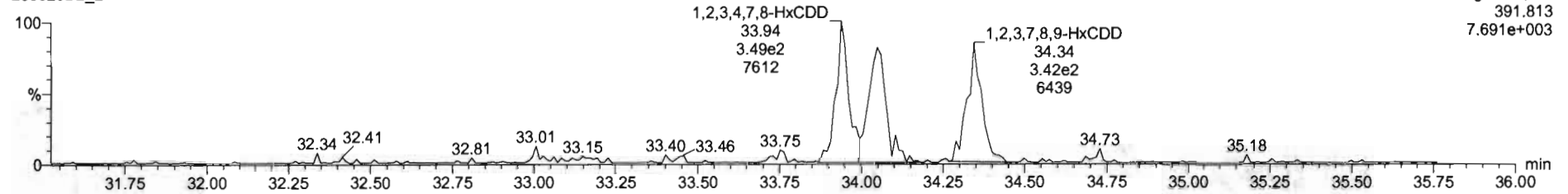
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1,2,3,4,7,8-HxCDD

200526D2_2

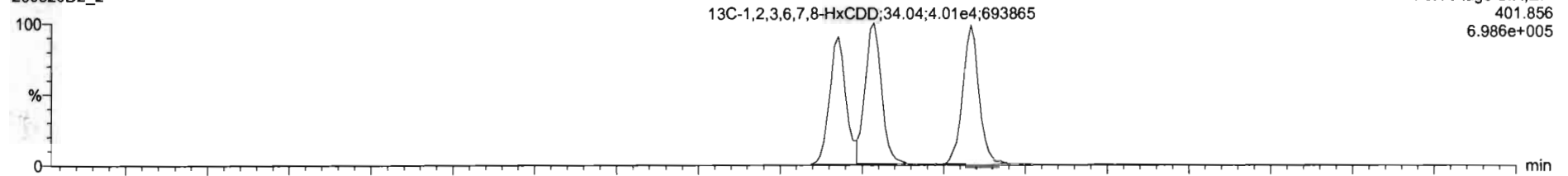


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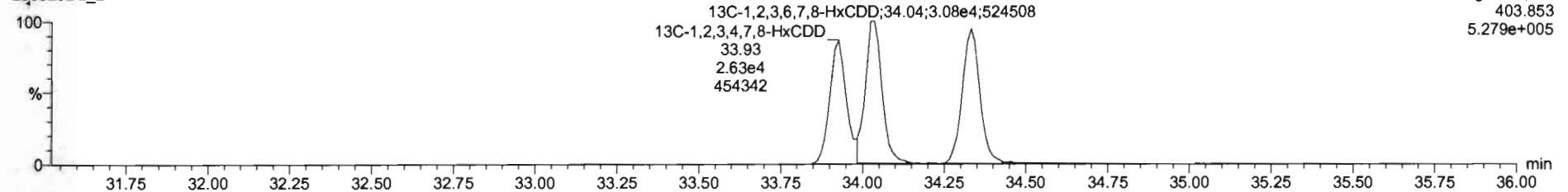


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200526D2_2



200526D2_2



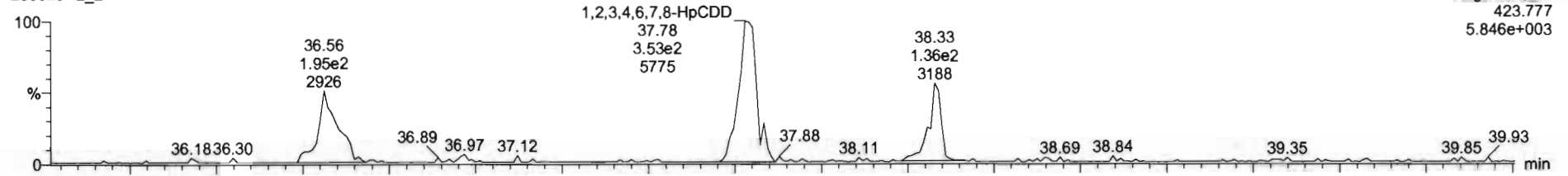
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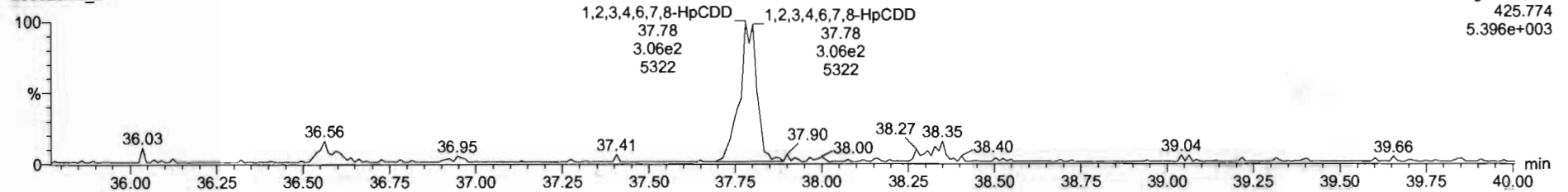
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1,2,3,4,6,7,8-HpCDD

200526D2_2

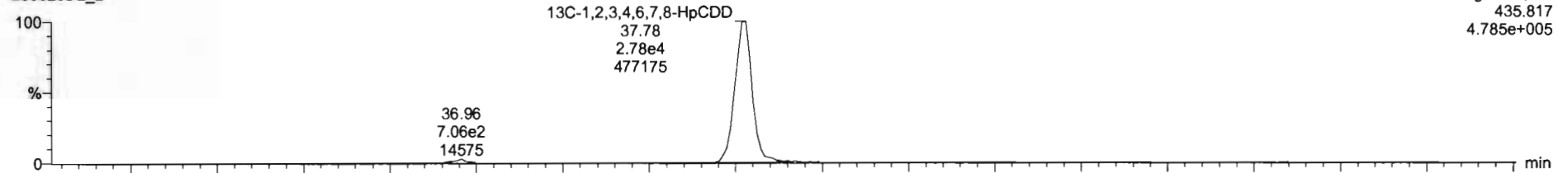


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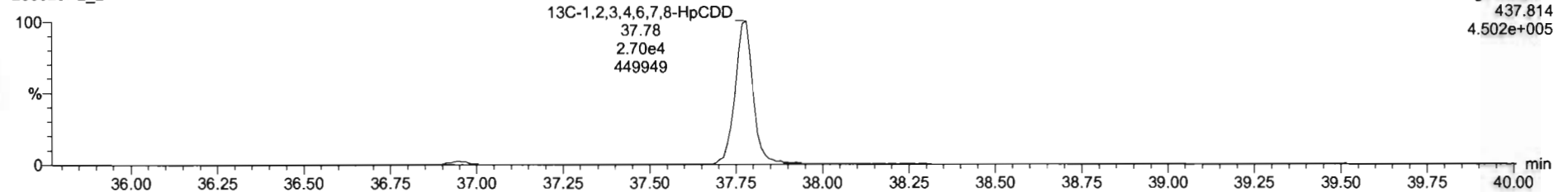


13C-1,2,3,4,6,7,8-HpCDD

200526D2_2



200526D2_2



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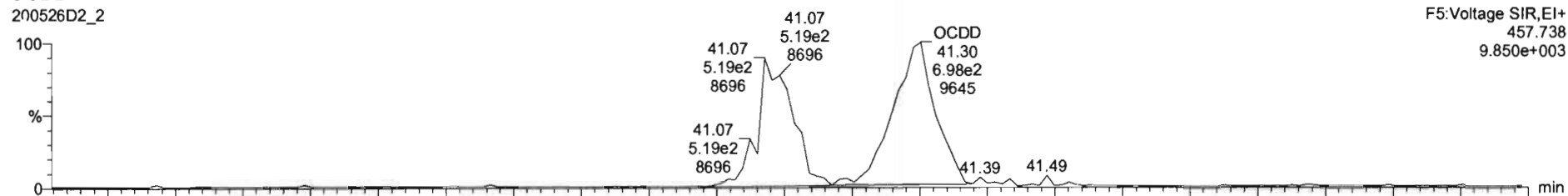
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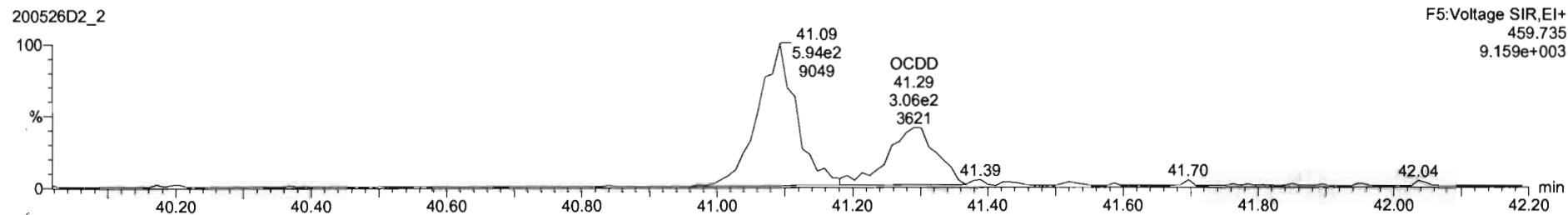
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OCDD

200526D2_2

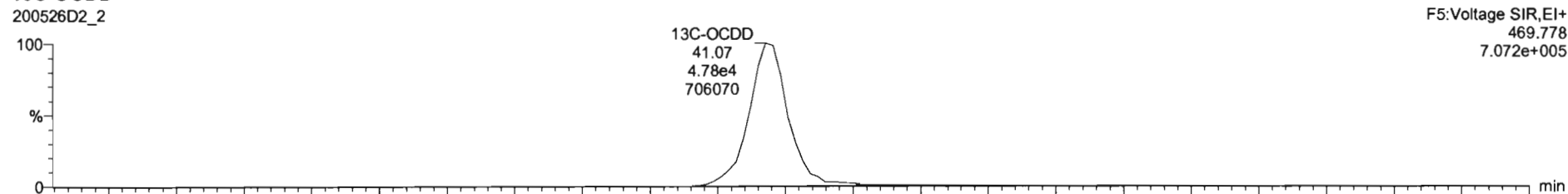


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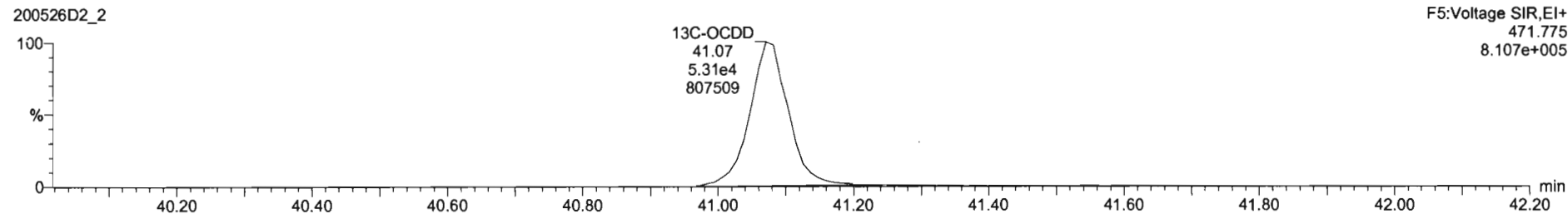


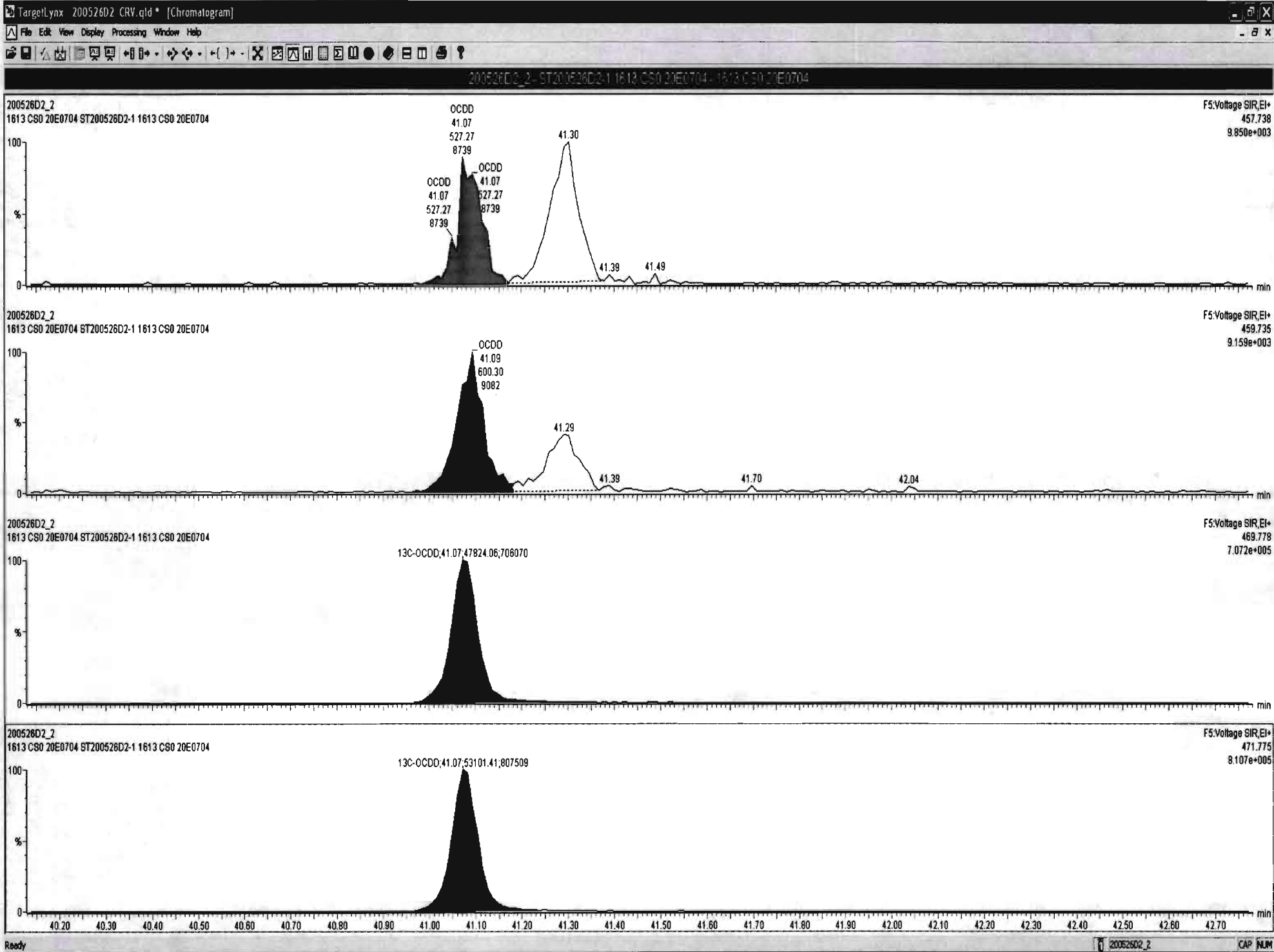
13C-OCDD

200526D2_2



200526D2_2



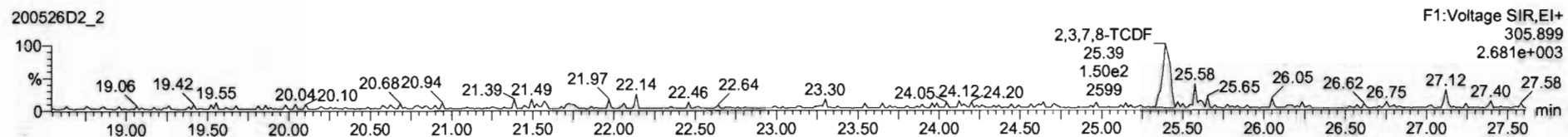
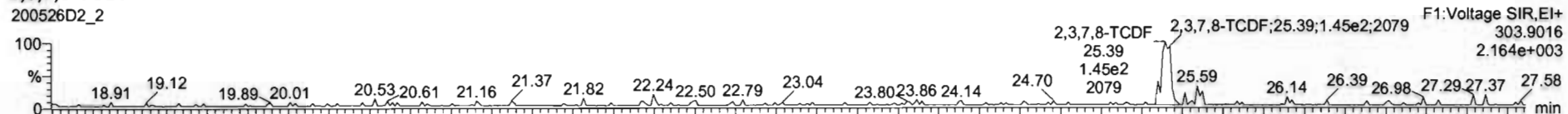


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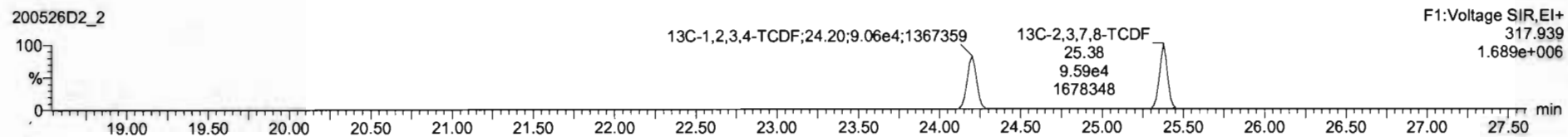
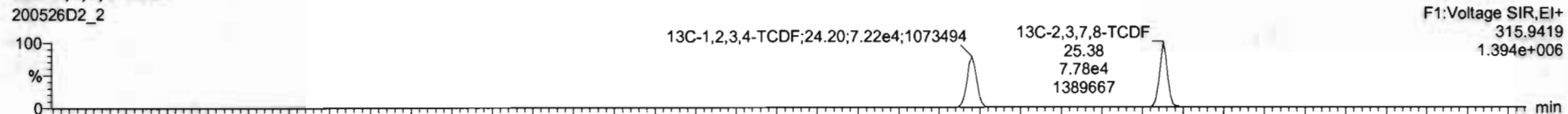
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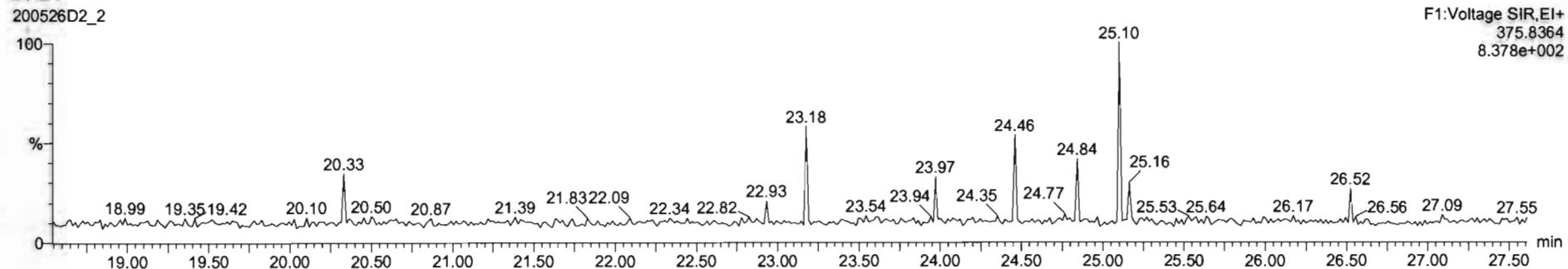
2,3,7,8-TCDF

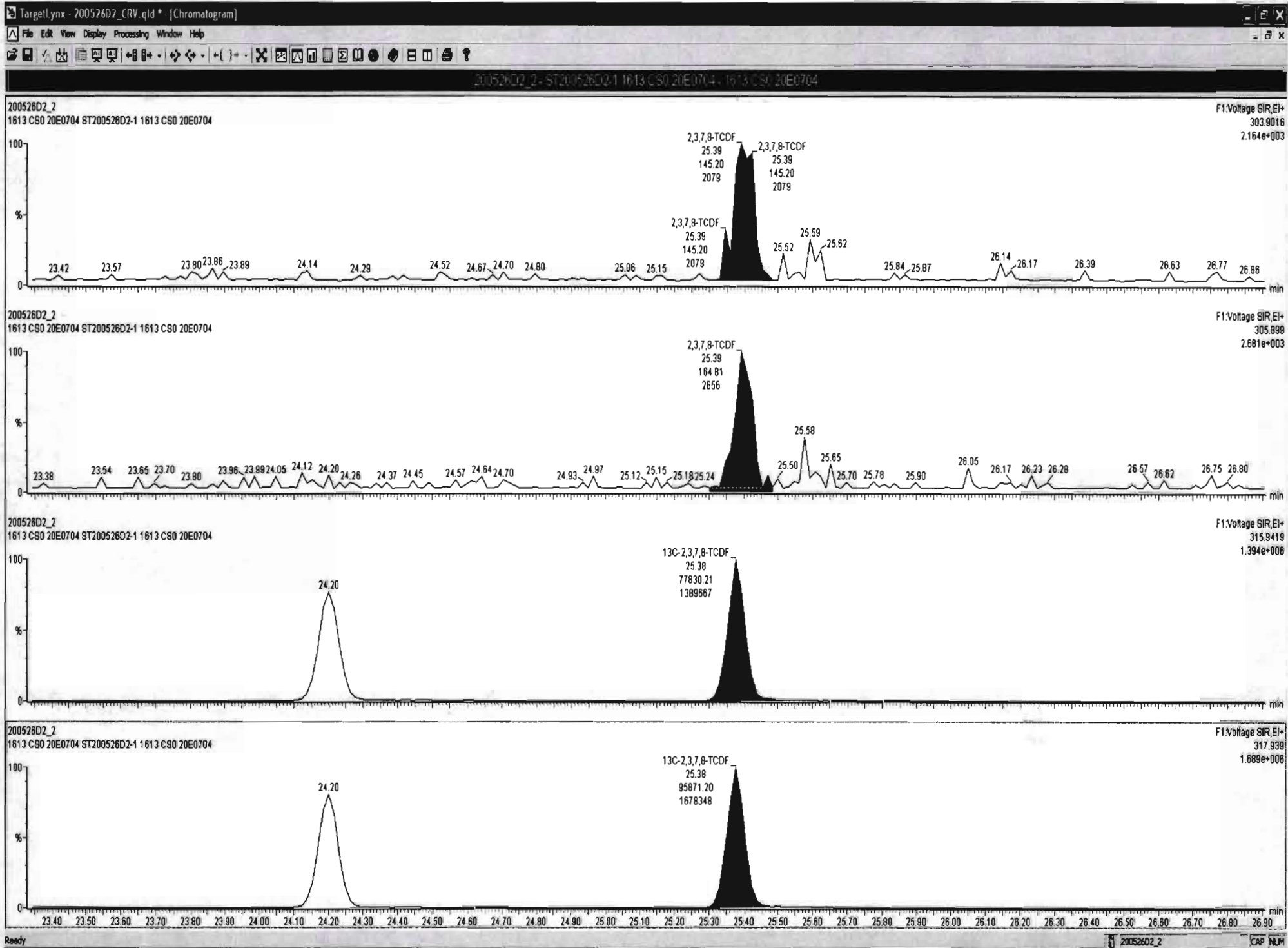


13C-2,3,7,8-TCDF



DPE1





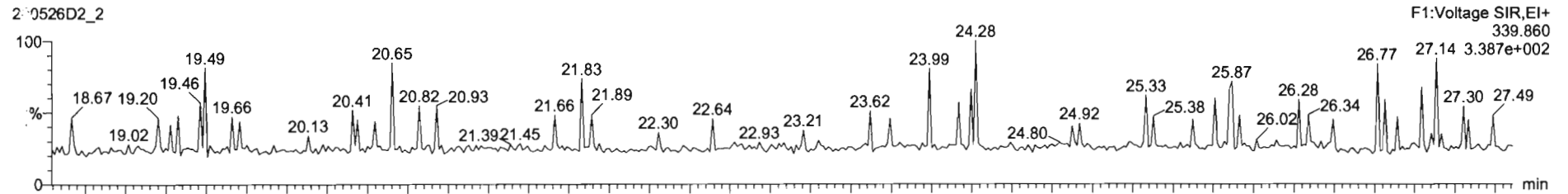
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

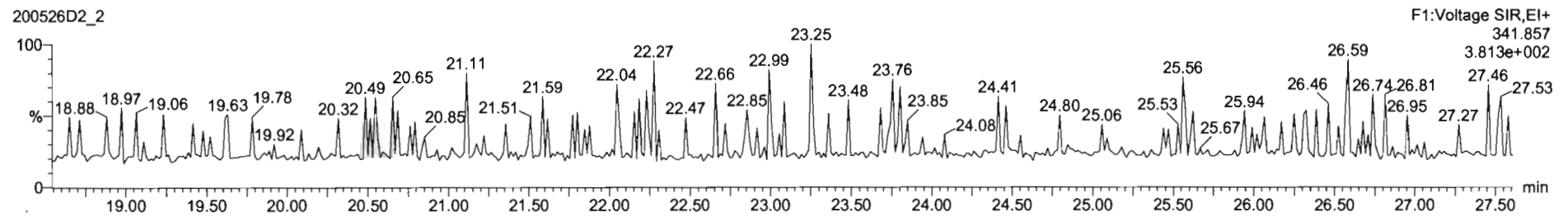
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200526D2_2

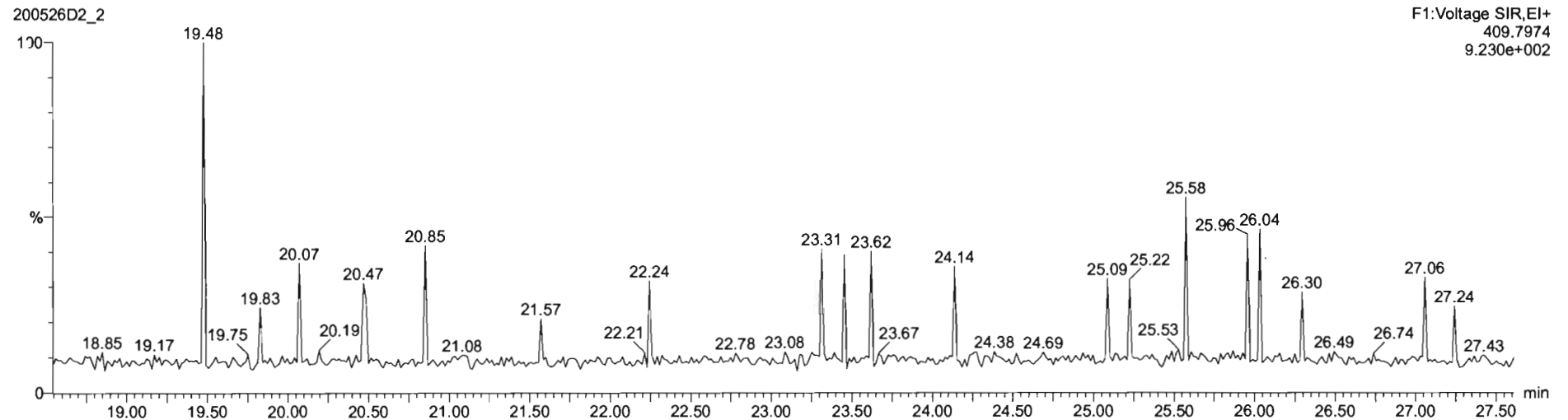


200526D2_2



DPE6

200526D2_2



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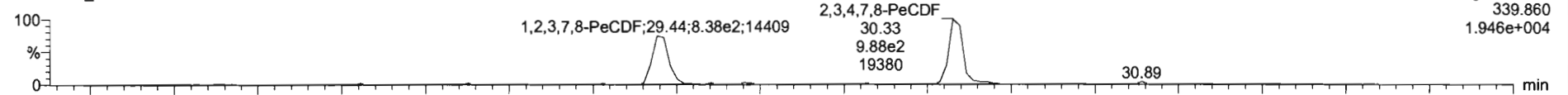
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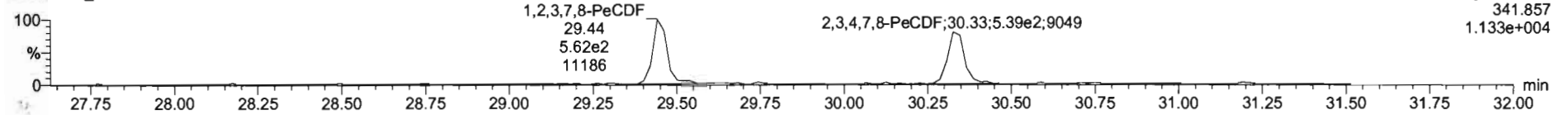
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1,2,3,7,8-PeCDF

200526D2_2

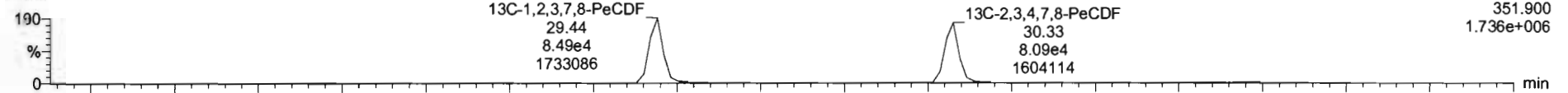


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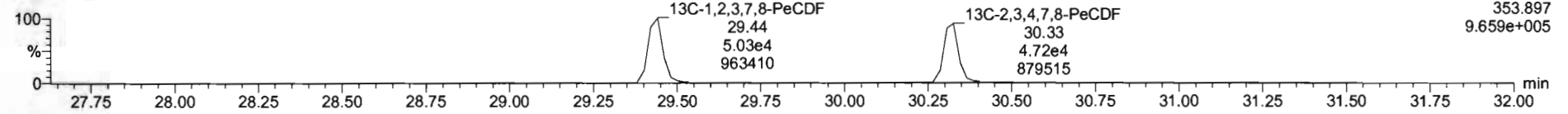


13C-1,2,3,7,8-PeCDF

200526D2_2

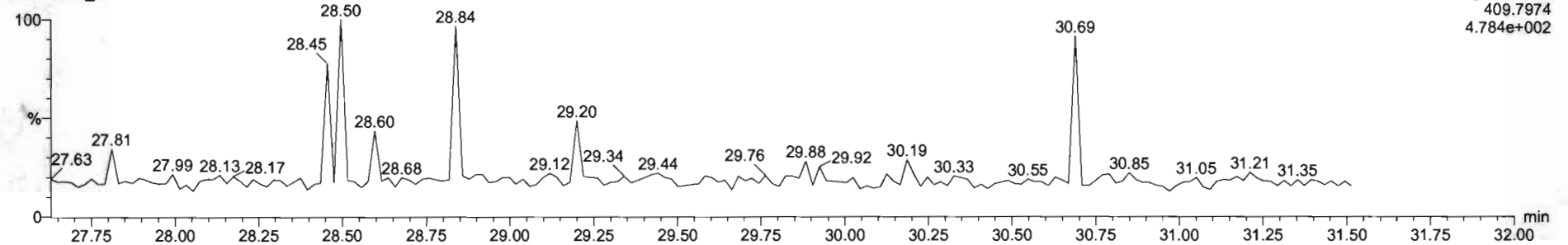


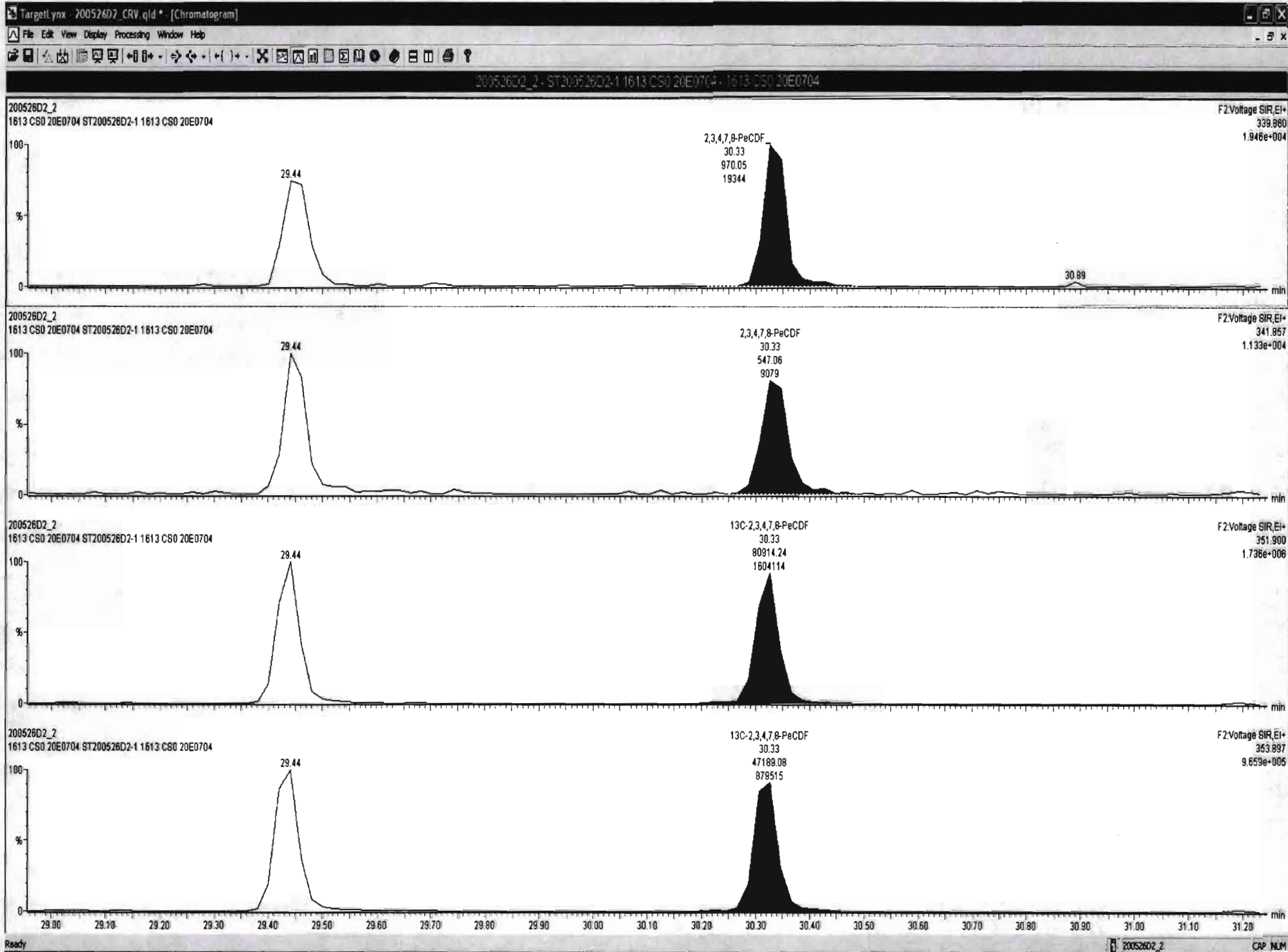
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DPE2

200526D2_2





Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

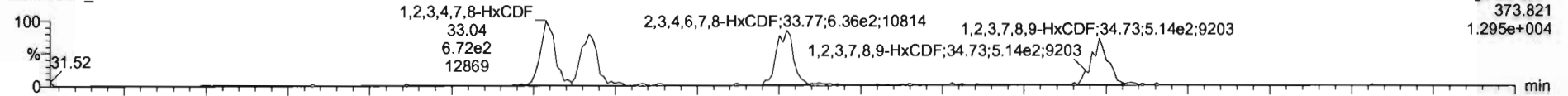
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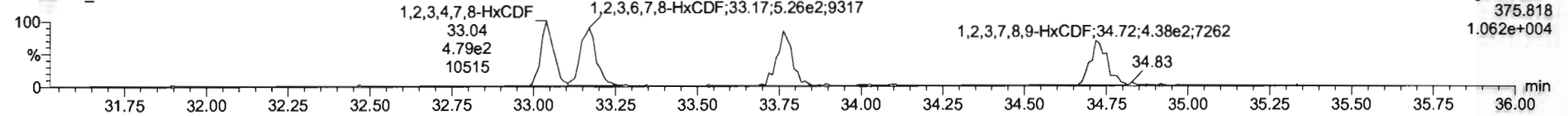
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1,2,3,4,7,8-HxCDF

200526D2_2

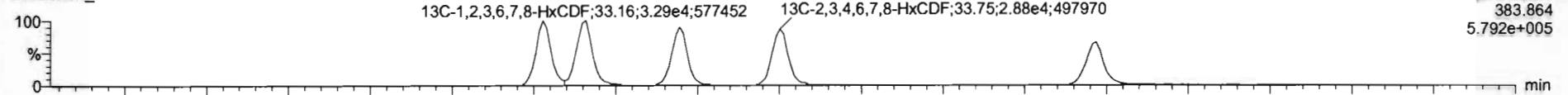


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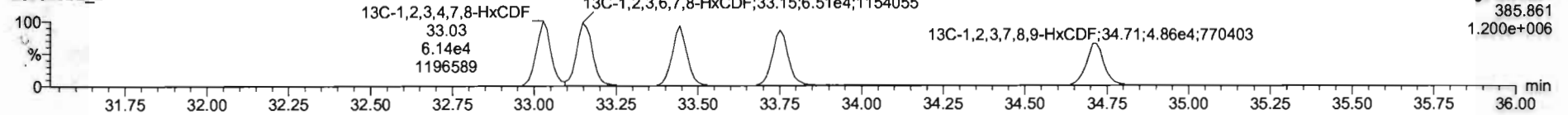


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200526D2_2

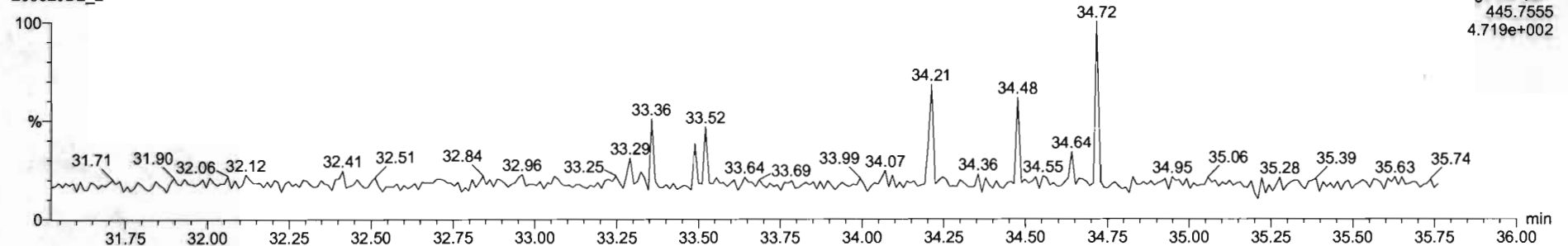


200526D2_2



DPE3

200526D2_2



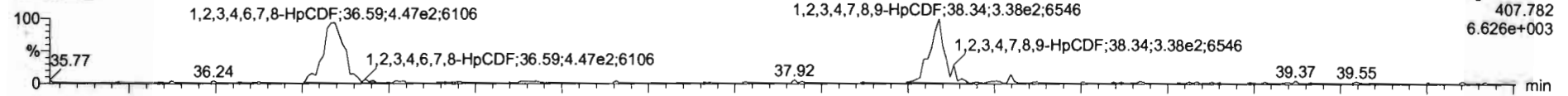
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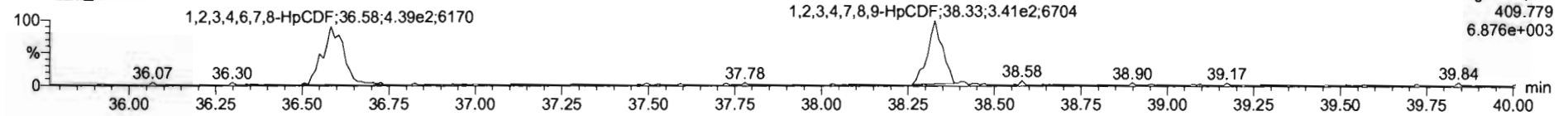
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1,2,3,4,6,7,8-HpCDF

200526D2_2

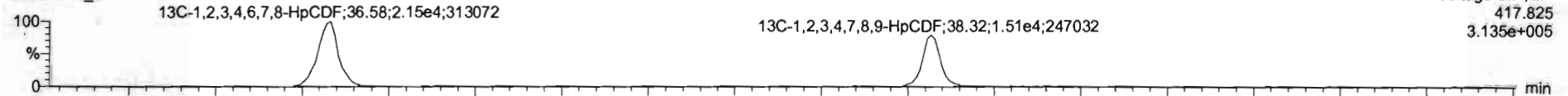


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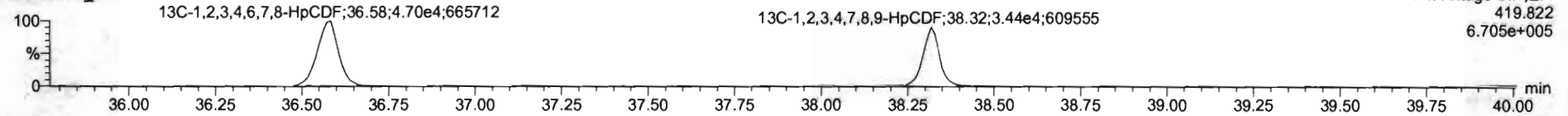


13C-1,2,3,4,6,7,8-HpCDF

200526D2_2

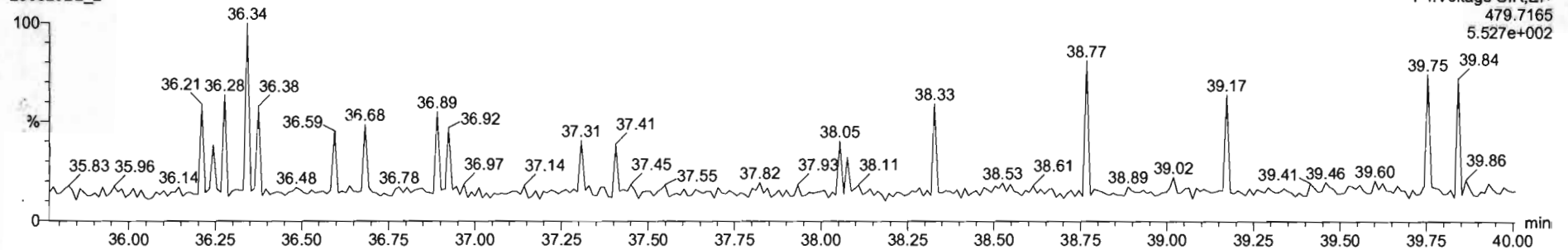


200526D2_2



DPE4

200526D2_2



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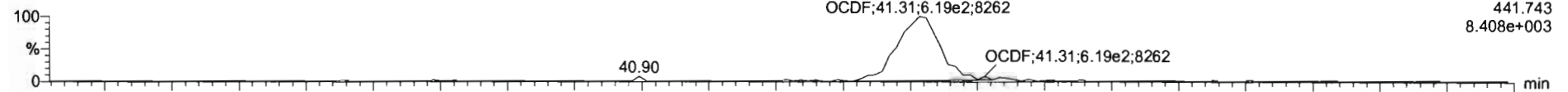
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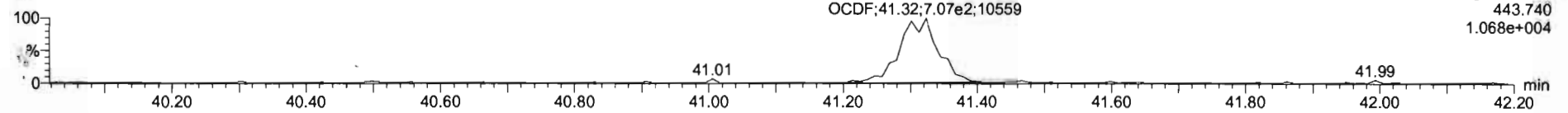
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OCDF

200526D2_2

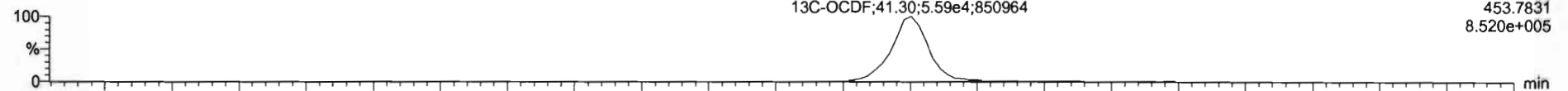


200526D2_2

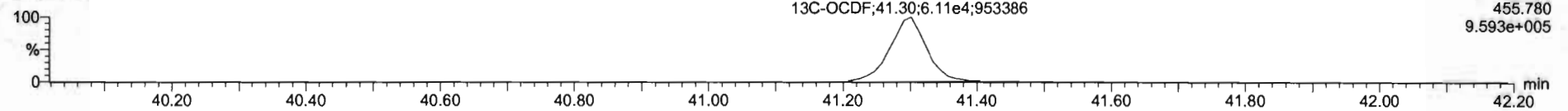


13C-OCDF

200526D2_2

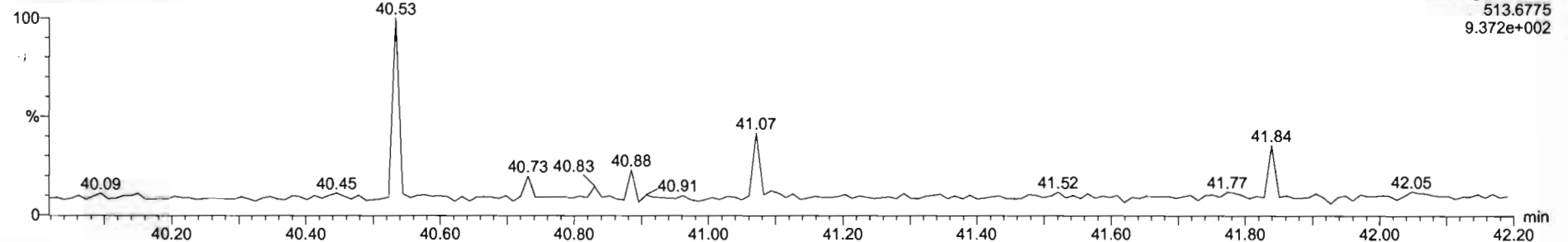


200526D2_2



DPE5

200526D2_2

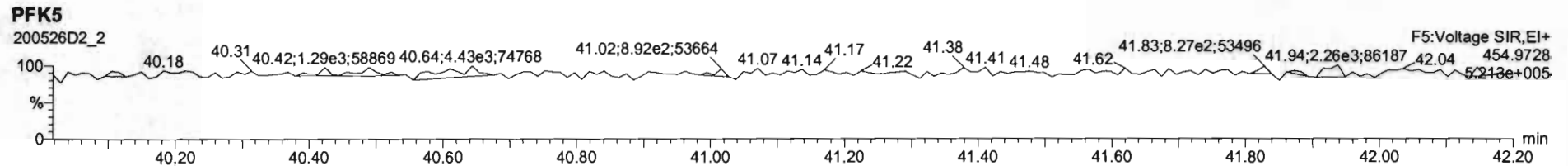
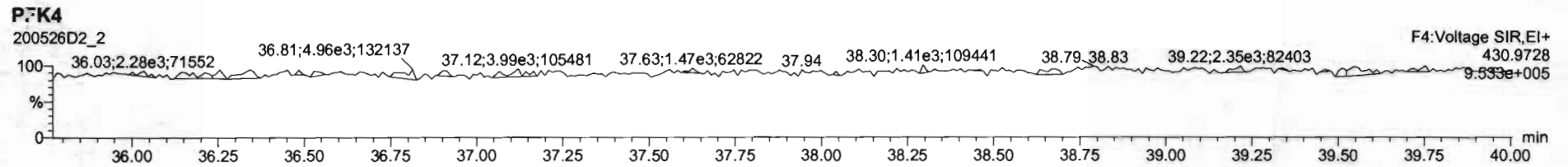
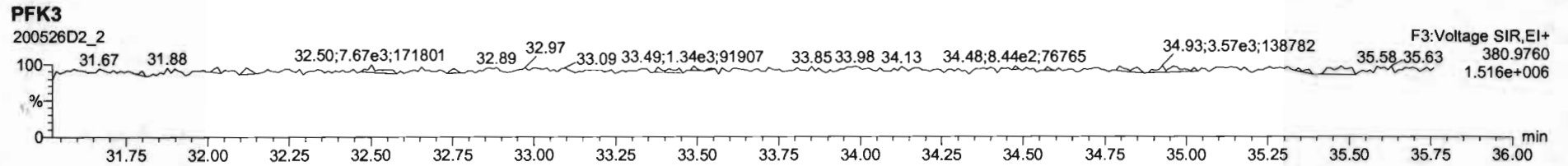
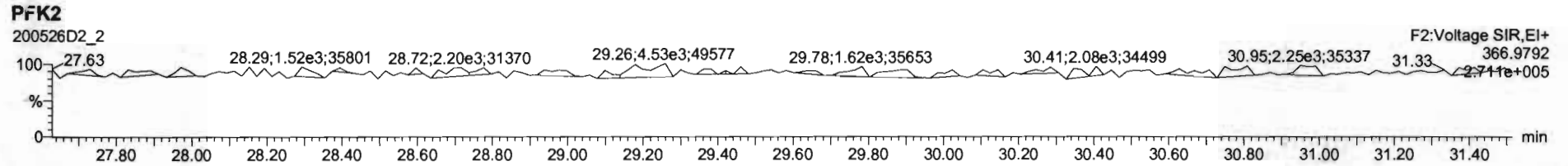
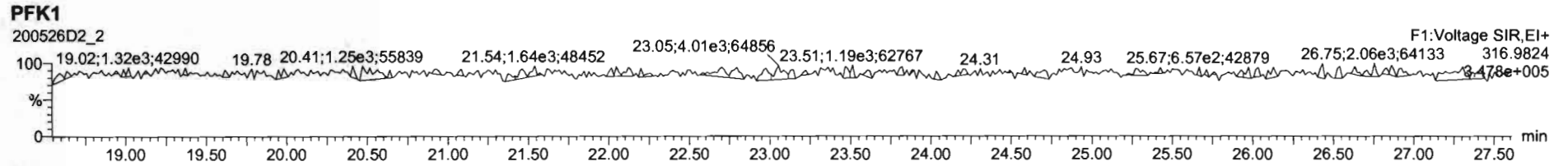


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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

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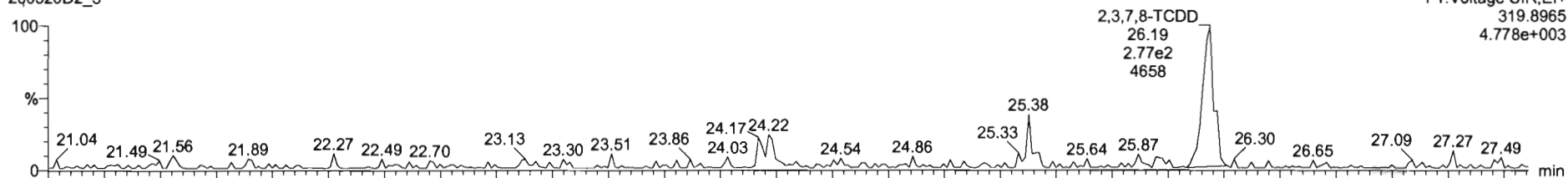
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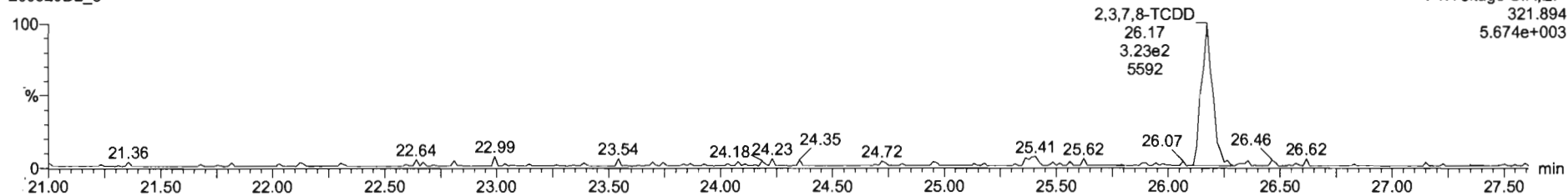
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2,3,7,8-TCDD

200526D2_3

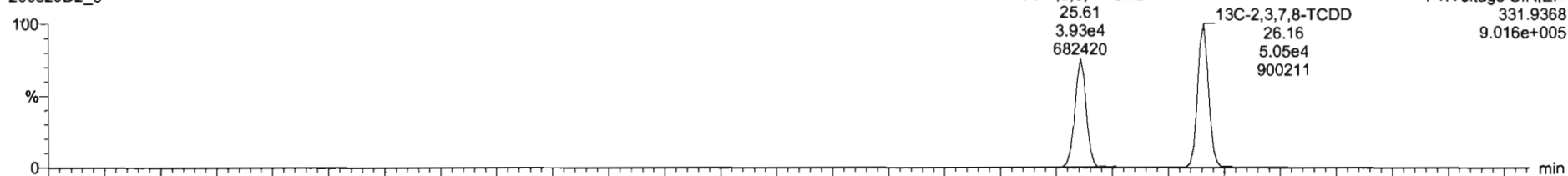


200526D2_3

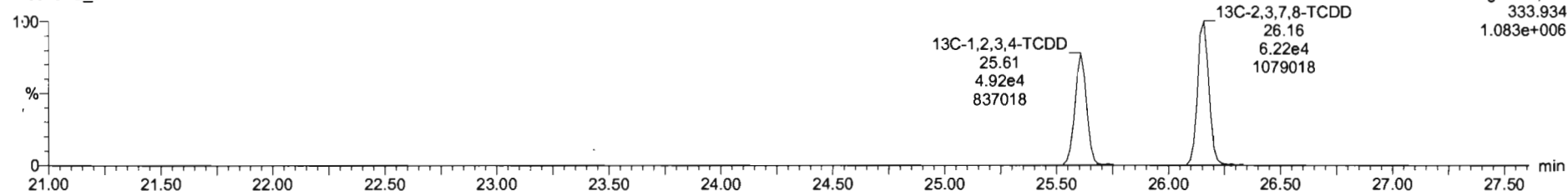


13C-2,3,7,8-TCDD

200526D2_3



200526D2_3

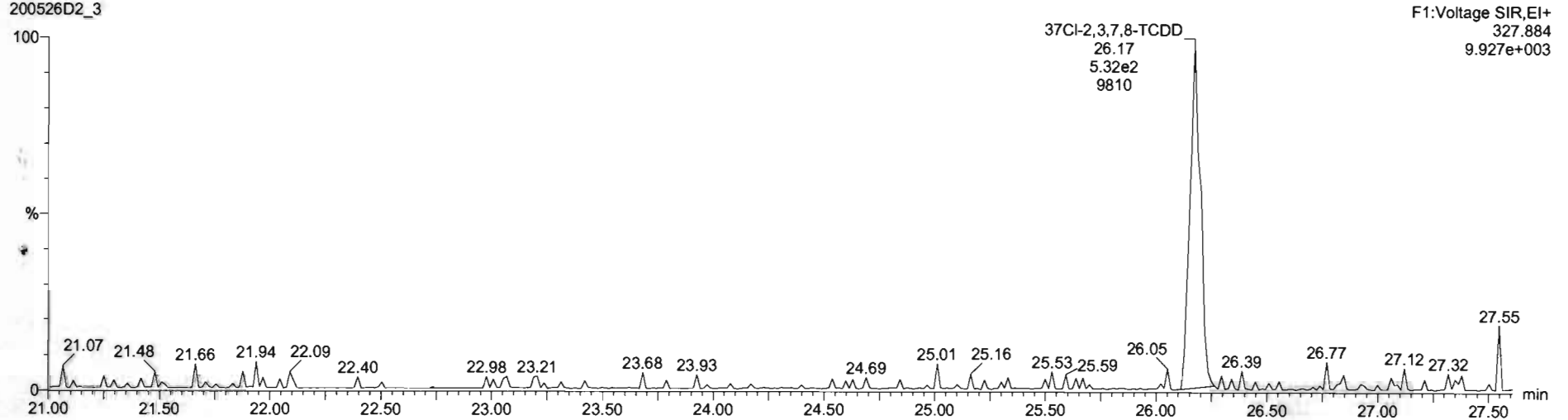


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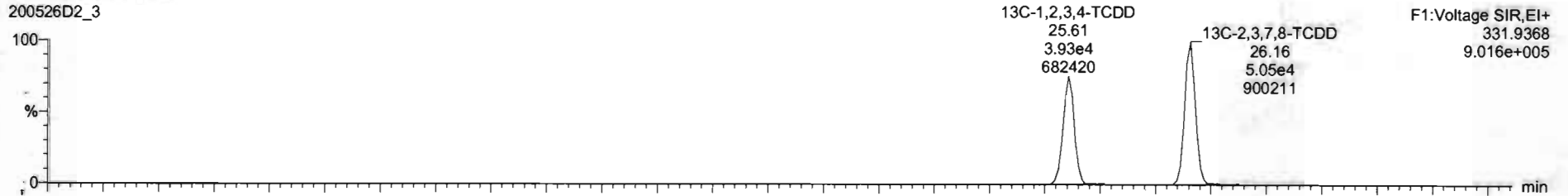
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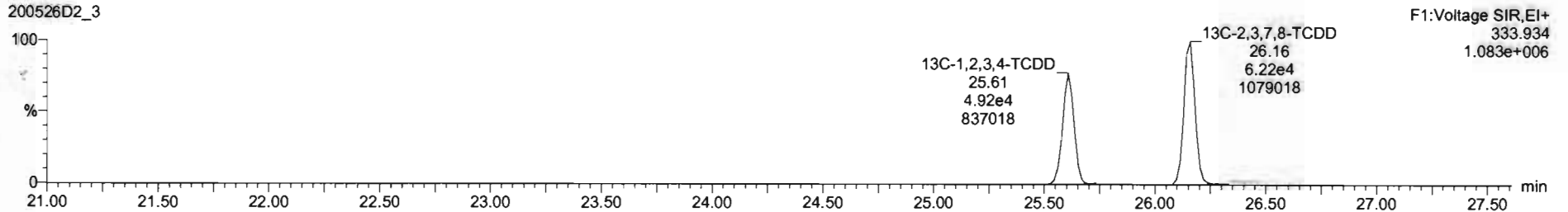
37Cl-2,3,7,8-TCDD
200526D2_3



13C-1,2,3,4-TCDD
200526D2_3



200526D2_3



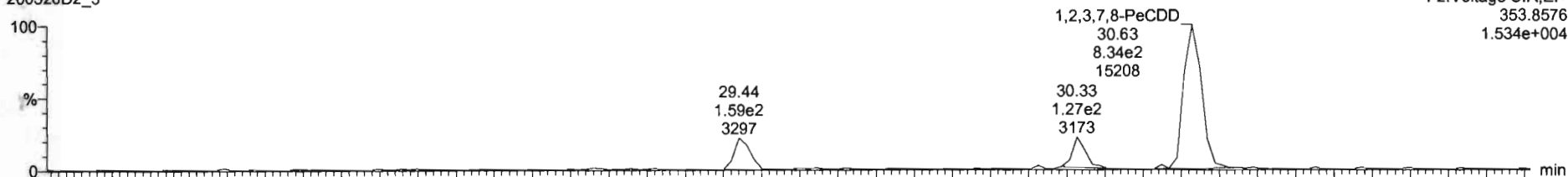
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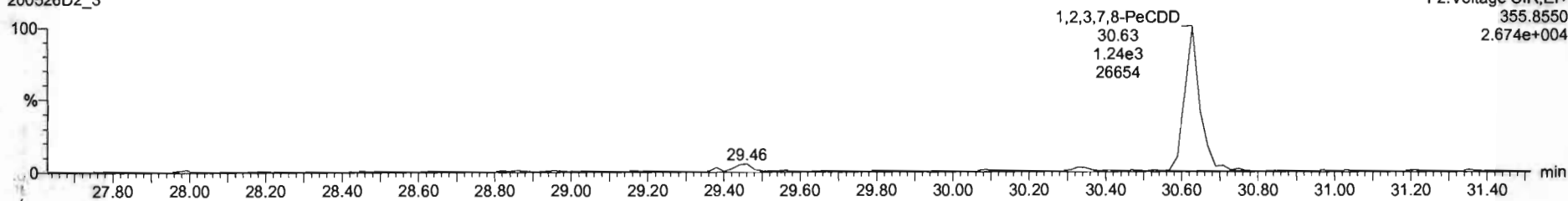
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1,2,3,7,8-PeCDD

200526D2_3

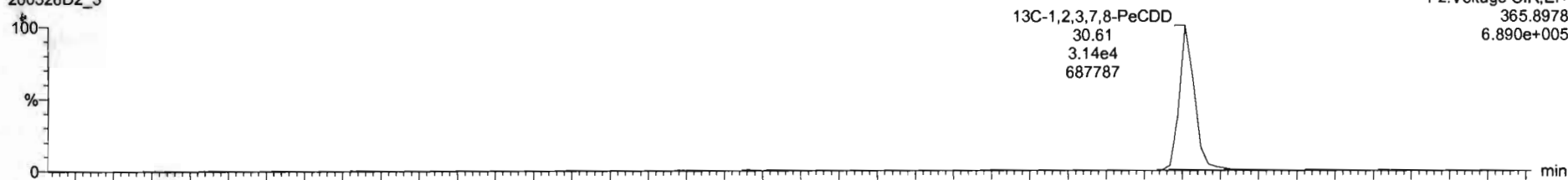


200526D2_3

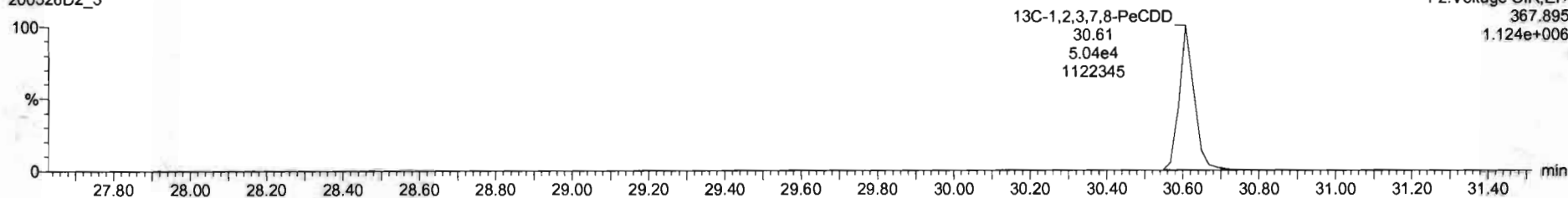


13C-1,2,3,7,8-PeCDD

200526D2_3



200526D2_3



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

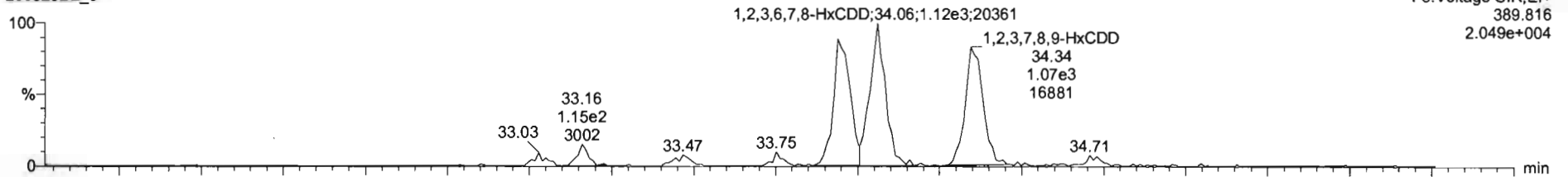
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

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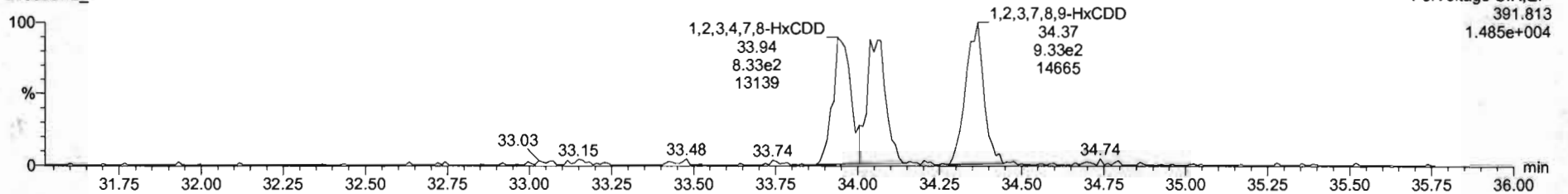
1,2,3,4,7,8-HxCDD

200526D2_3



F3:Voltage SIR,EI+
389.816
2.049e+004

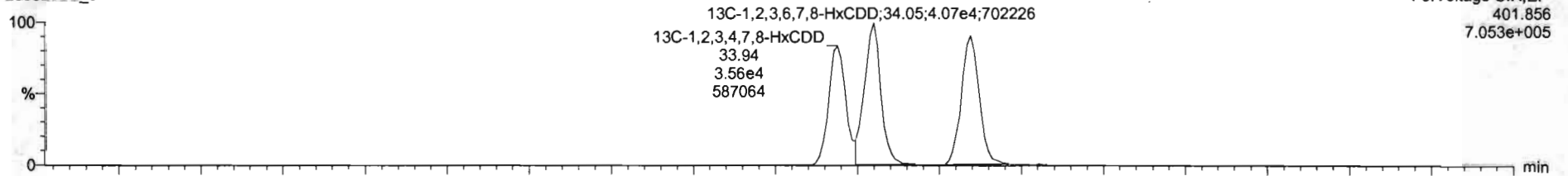
200526D2_3



F3:Voltage SIR,EI+
391.813
1.485e+004

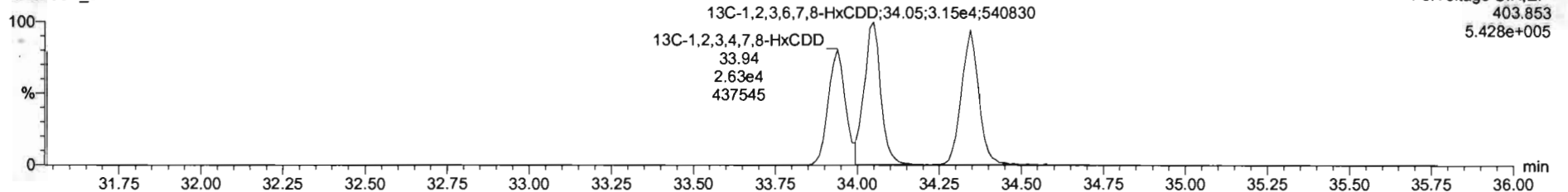
13C-1,2,3,4,7,8-HxCDD

200526D2_3



F3:Voltage SIR,EI+
401.856
7.053e+005

200526D2_3



F3:Voltage SIR,EI+
403.853
5.428e+005

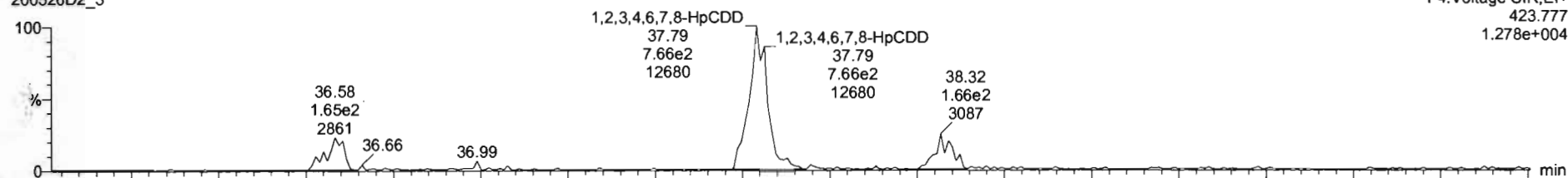
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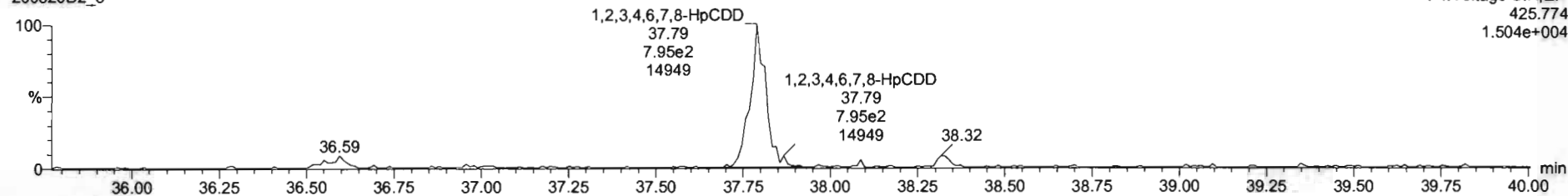
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1,2,3,4,6,7,8-HpCDD

200526D2_3

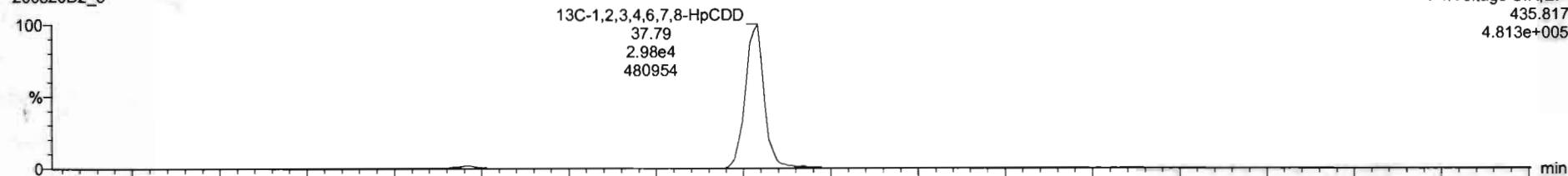


200526D2_3

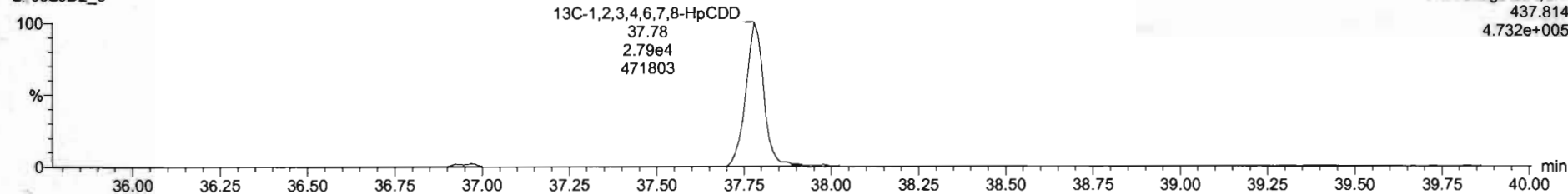


13C-1,2,3,4,6,7,8-HpCDD

200526D2_3



200526D2_3



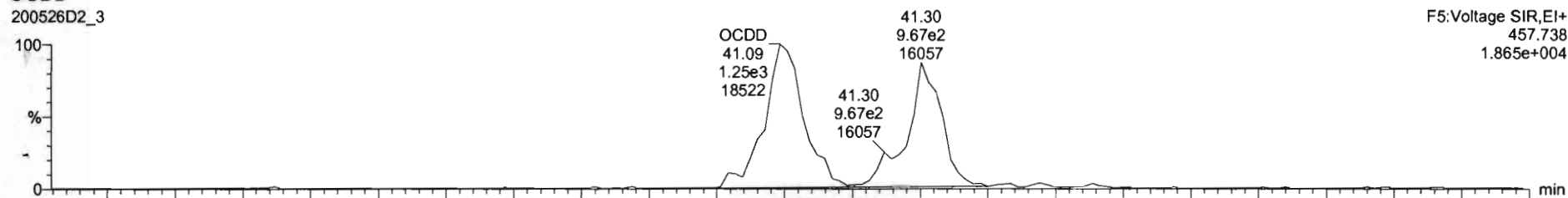
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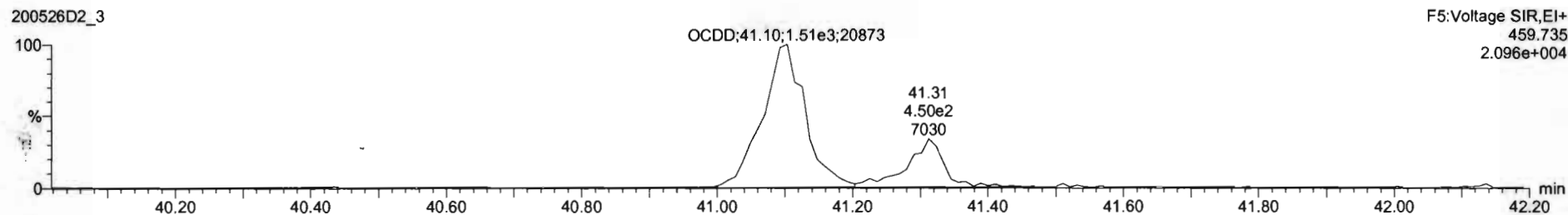
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OCDD

200526D2_3

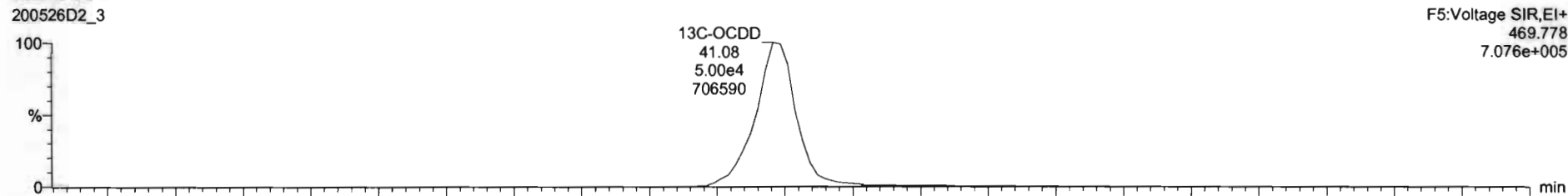


200526D2_3

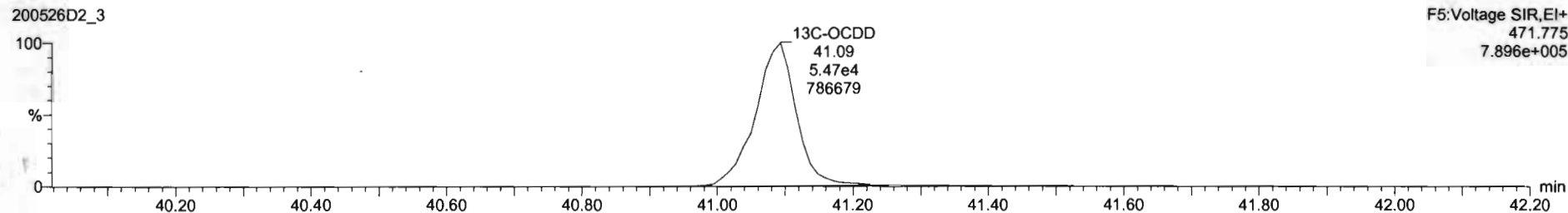


13C-OCDD

200526D2_3



200526D2_3



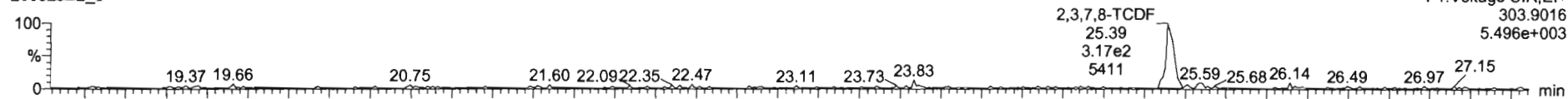
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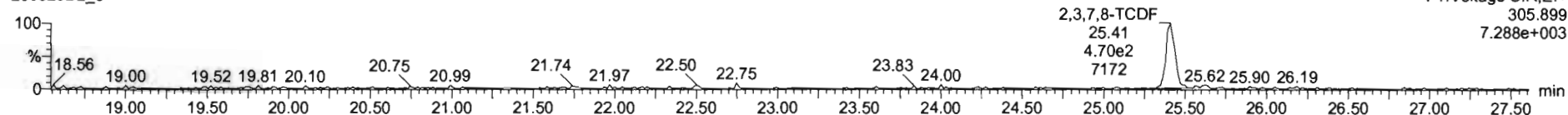
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2,3,7,8-TCDF

200526D2_3

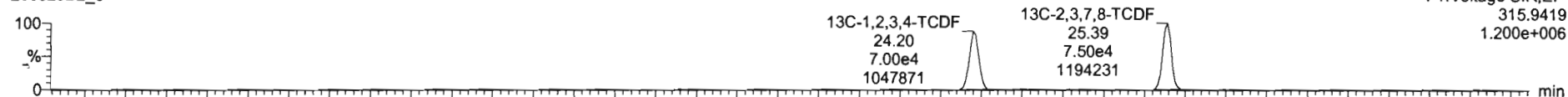


200526D2_3

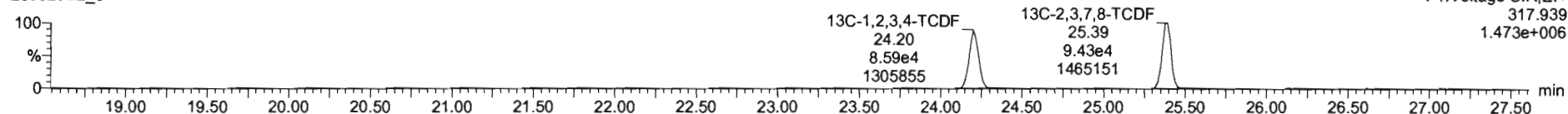


¹³C-2,3,7,8-TCDF

200526D2_3

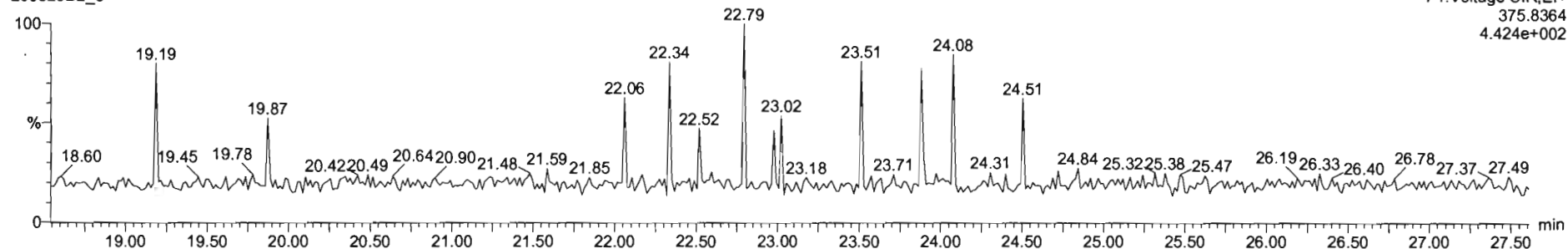


200526D2_3



DPE1

200526D2_3

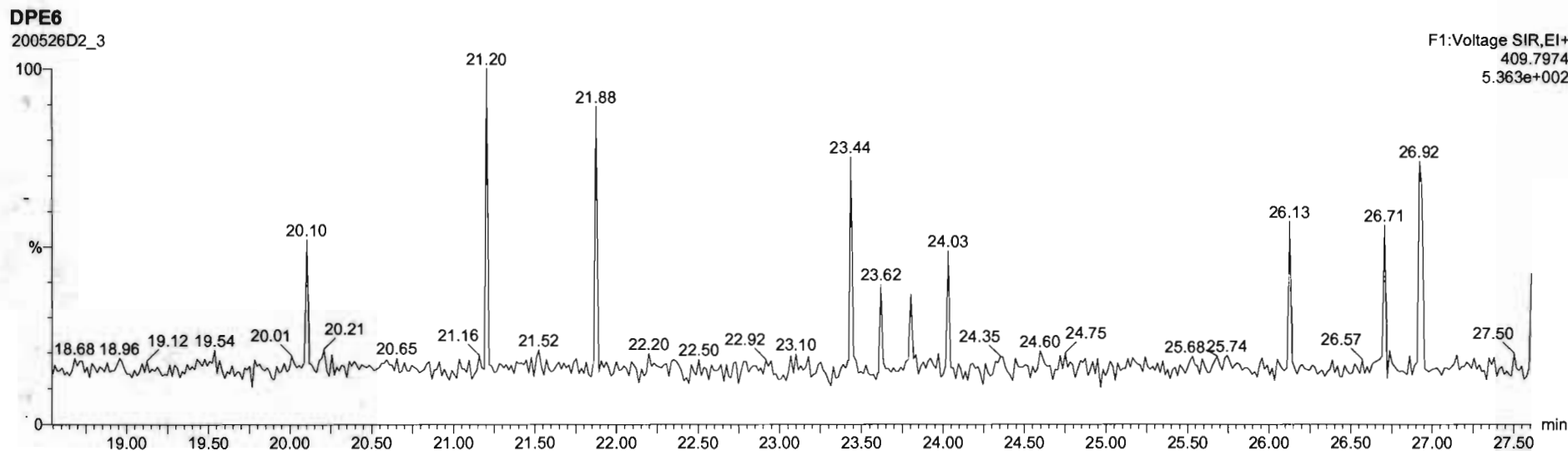
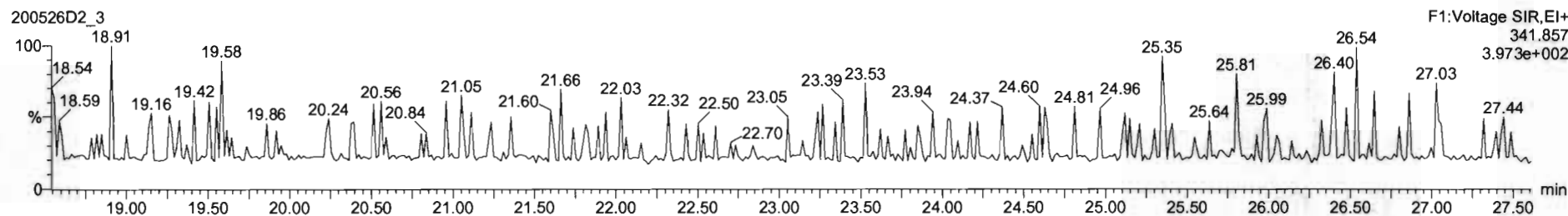
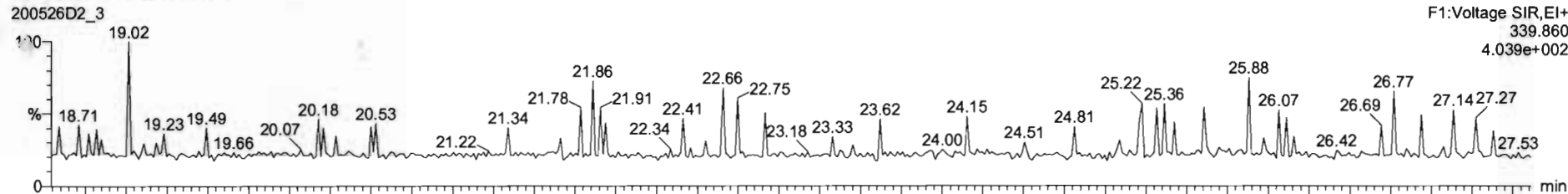


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Name: 200526D2_3, Date: 26-May-2020, Time: 21:42:35, ID: ST200526D2-2 1613 CS1 20E0705, Description: 1613 CS1 20E0705

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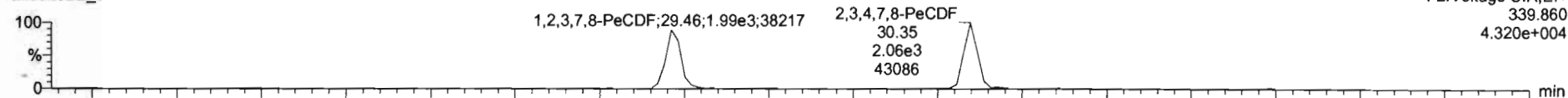
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

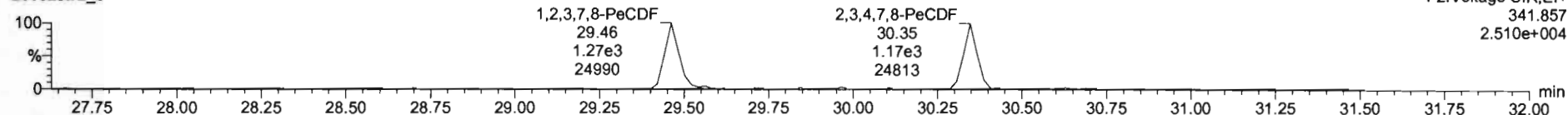
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1,2,3,7,8-PeCDF

200526D2_3

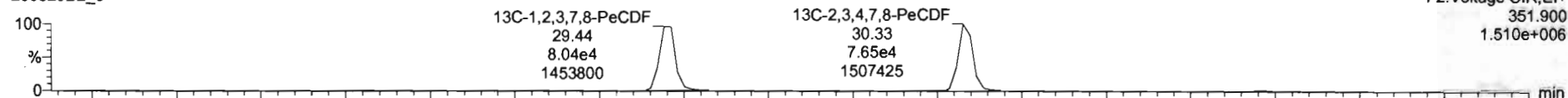


200526D2_3

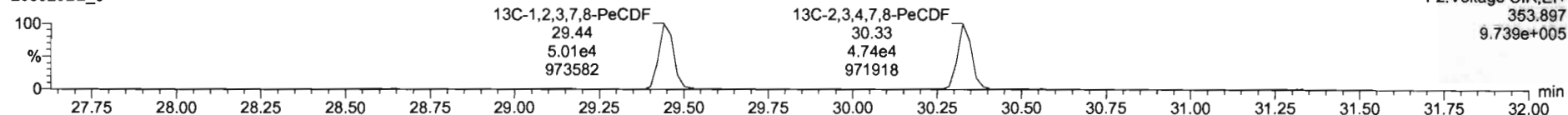


13C-1,2,3,7,8-PeCDF

200526D2_3

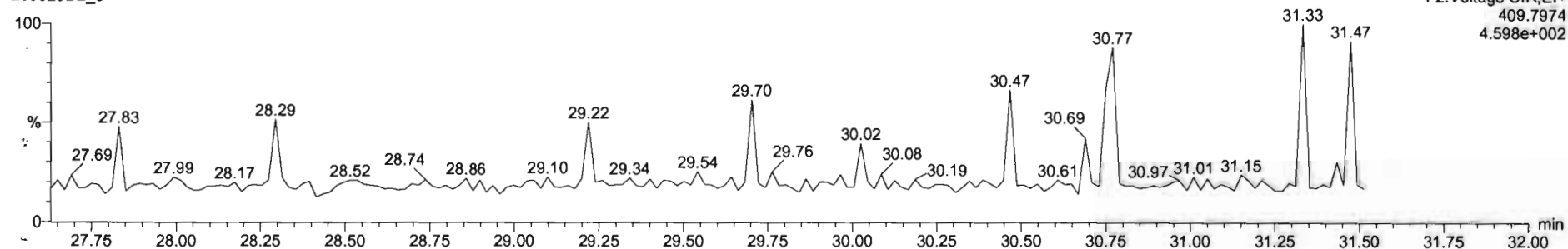


200526D2_3



DPE2

200526D2_3



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

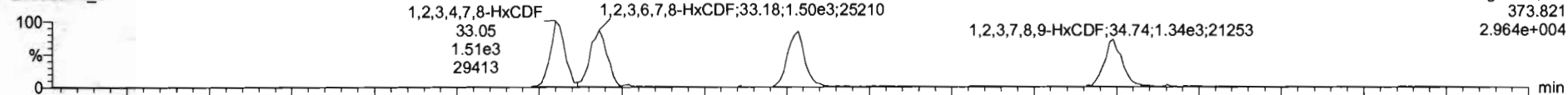
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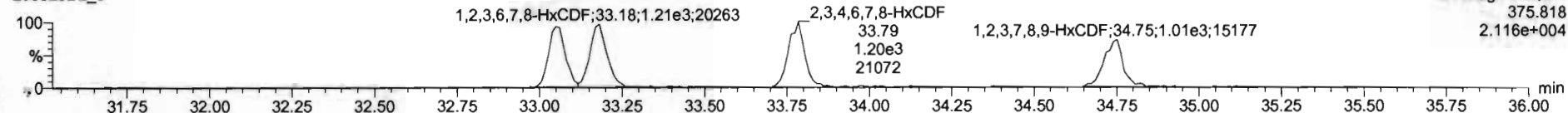
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1,2,3,4,7,8-HxCDF

200526D2_3

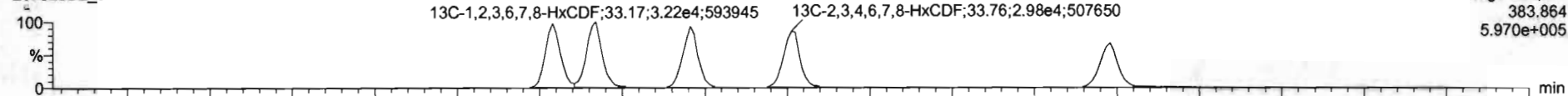


200526D2_3

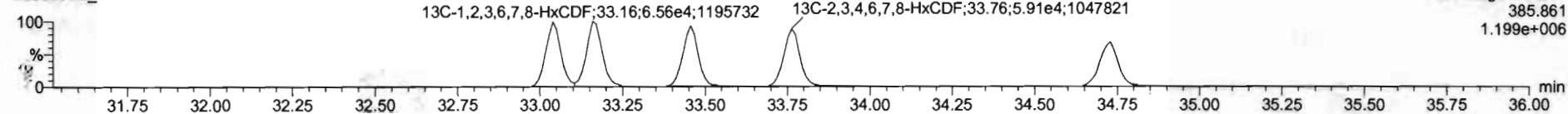


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200526D2_3

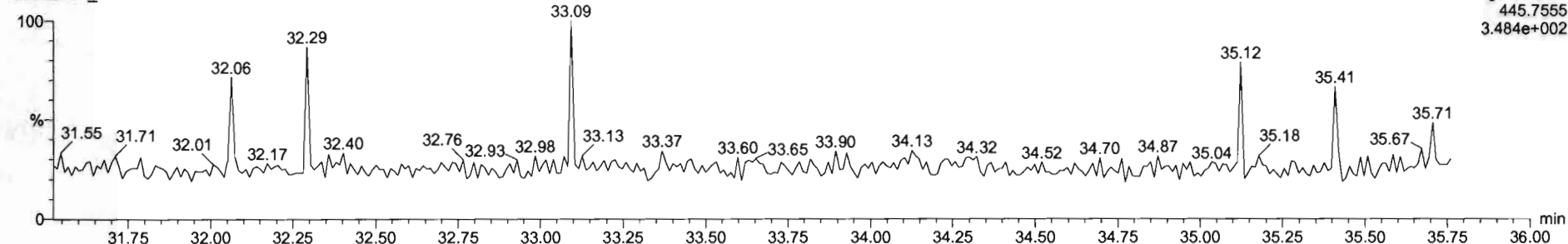


200526D2_3



DPE3

200526D2_3



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

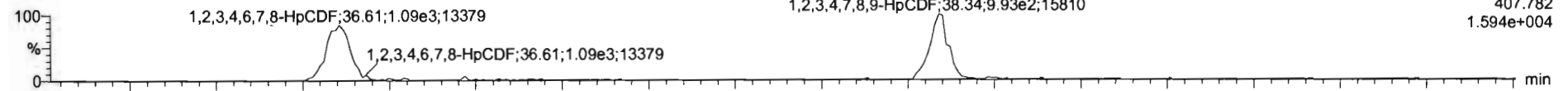
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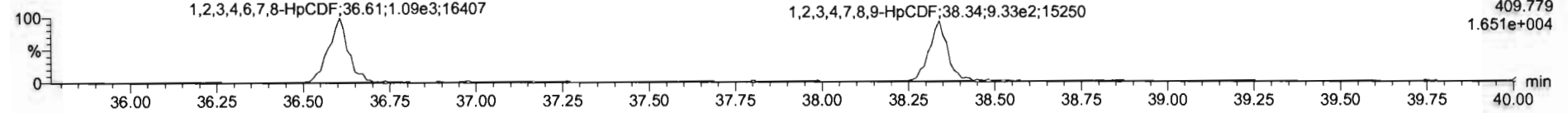
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1, 2, 3, 4, 6, 7, 8-HpCDF

200526D2_3

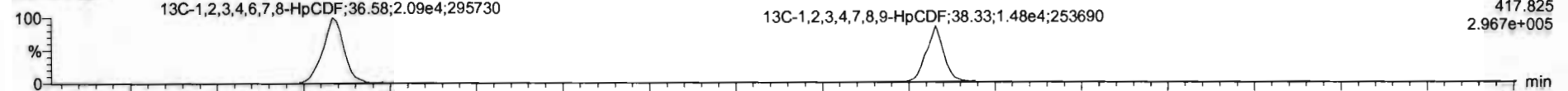


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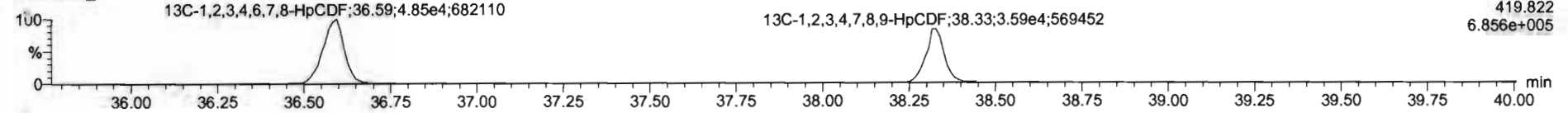


13C-1, 2, 3, 4, 6, 7, 8-HpCDF

200526D2_3

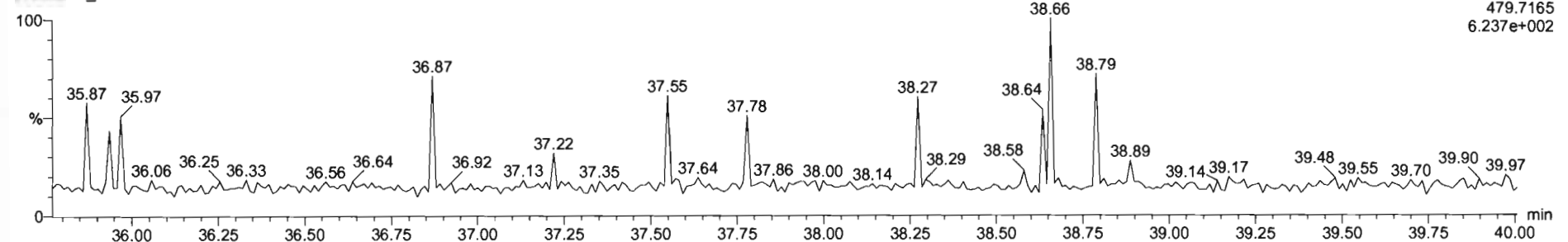


200526D2_3



DPE4

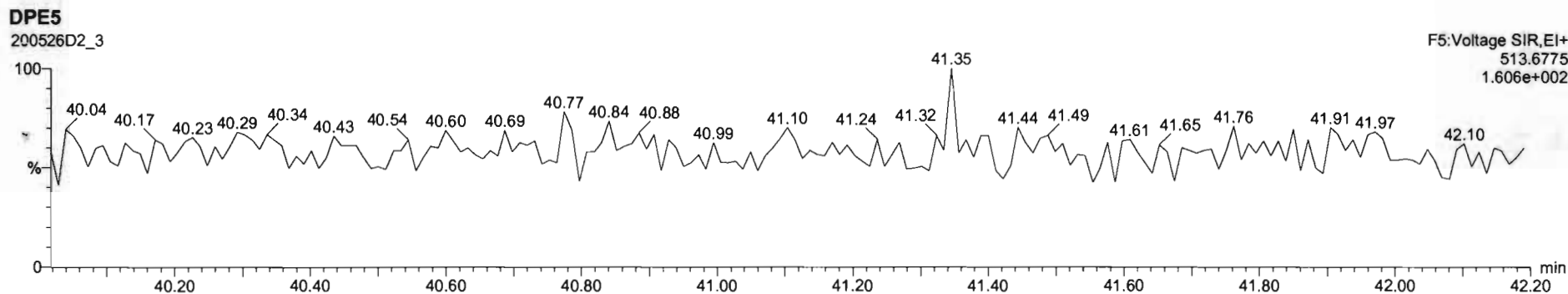
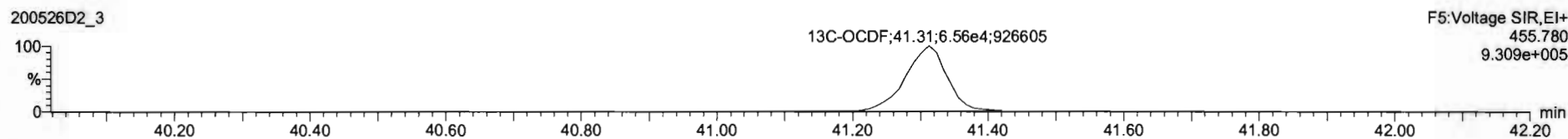
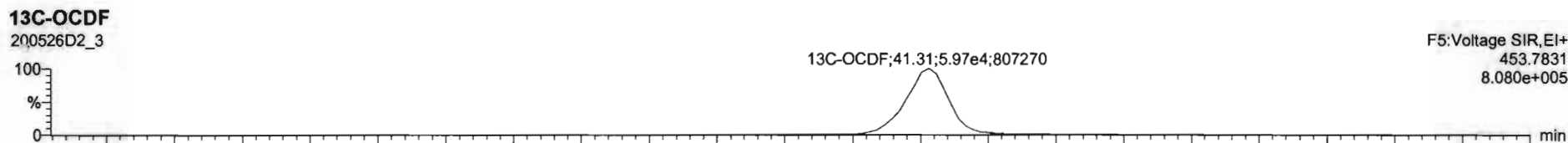
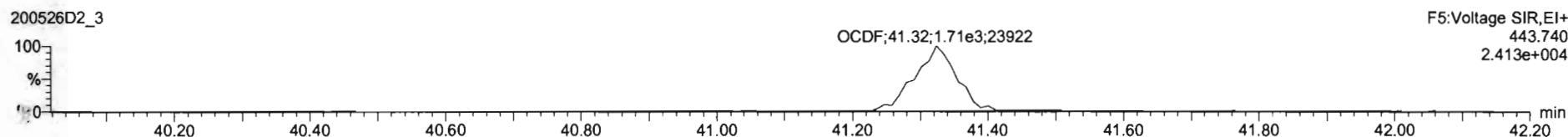
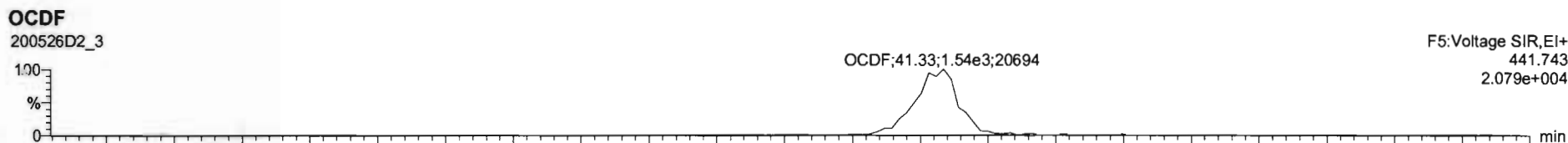
200526D2_3



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

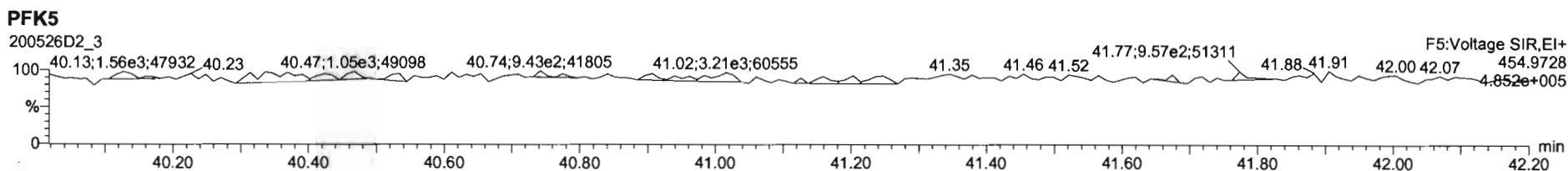
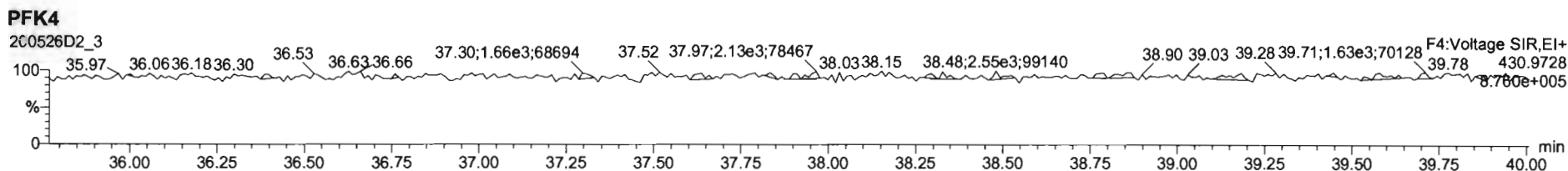
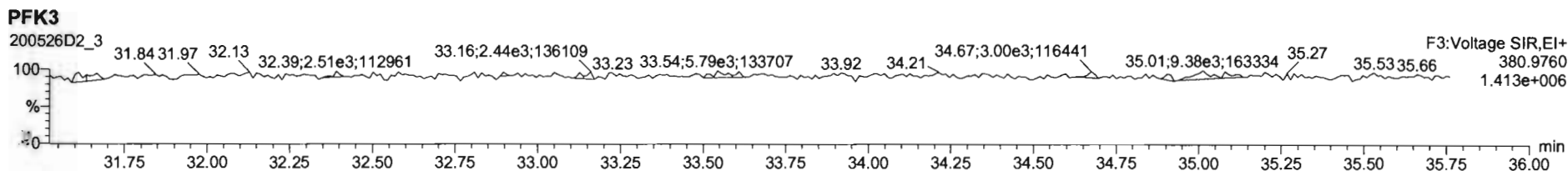
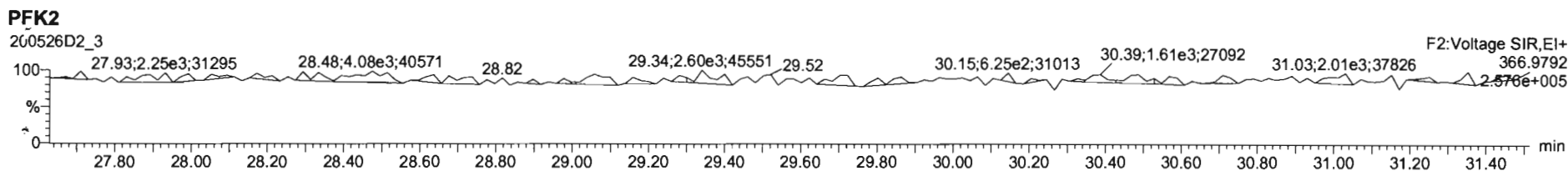
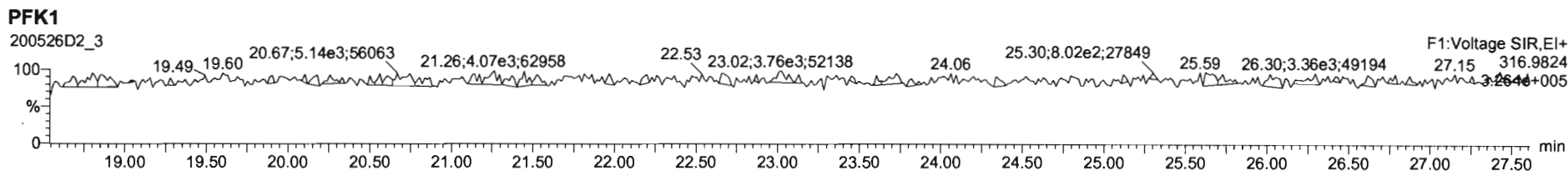
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Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

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Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

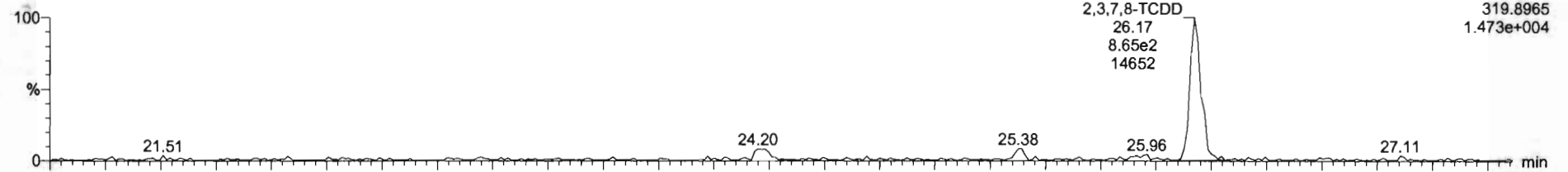
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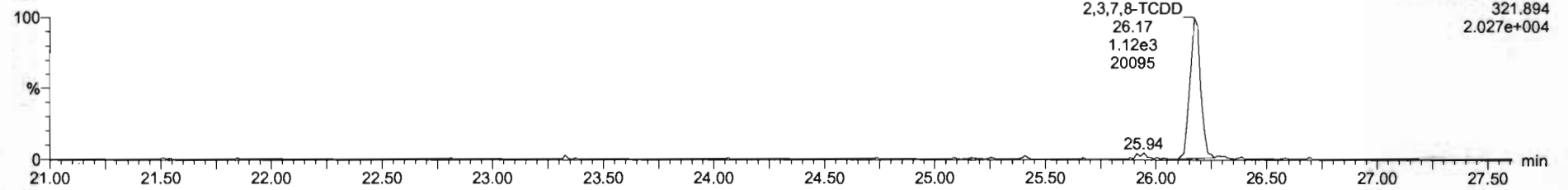
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2,3,7,8-TCDD

200526D2_4

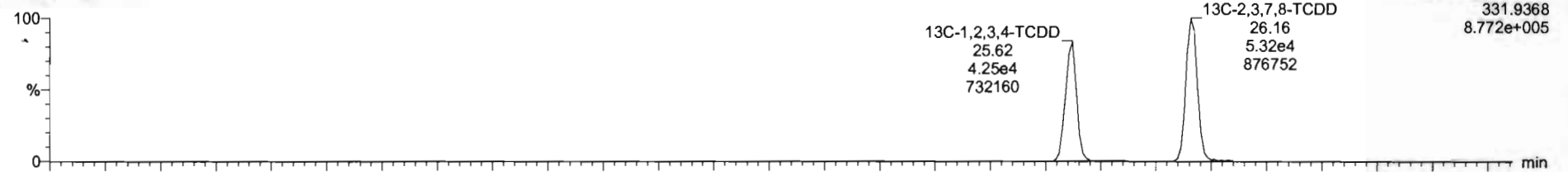


200526D2_4

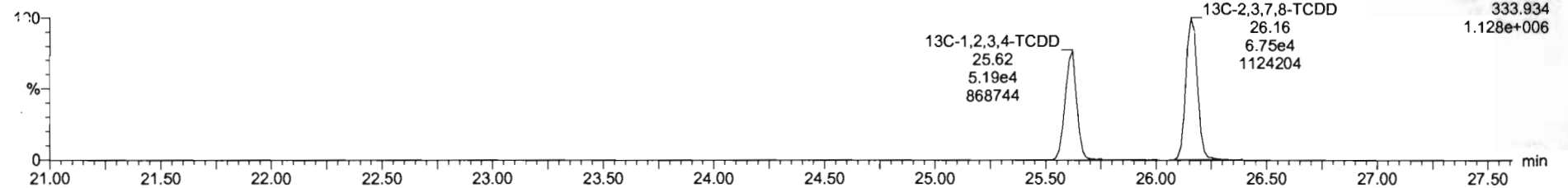


13C-2,3,7,8-TCDD

200526D2_4



200526D2_4



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

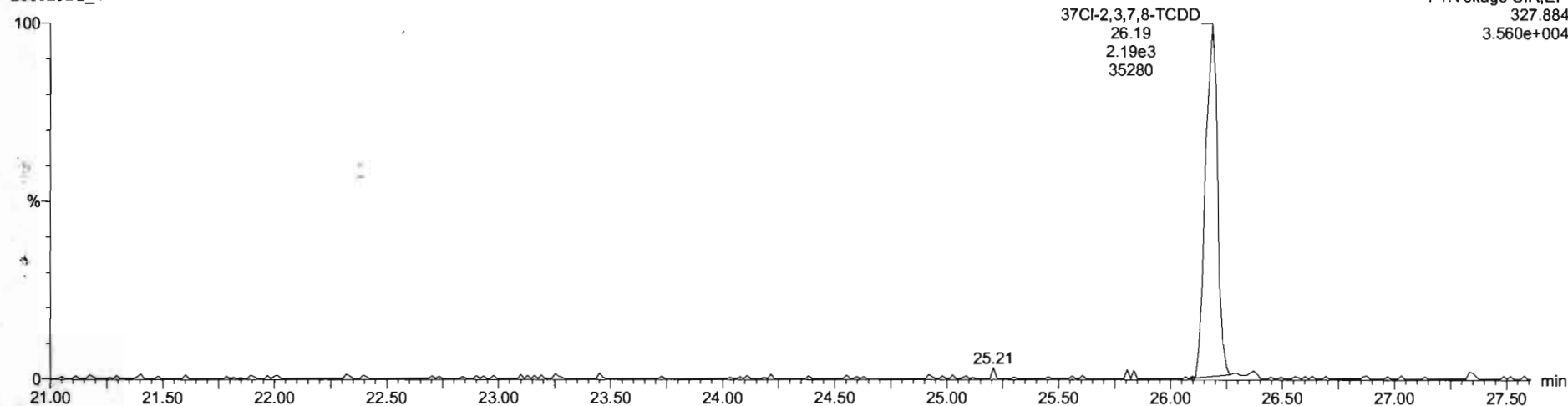
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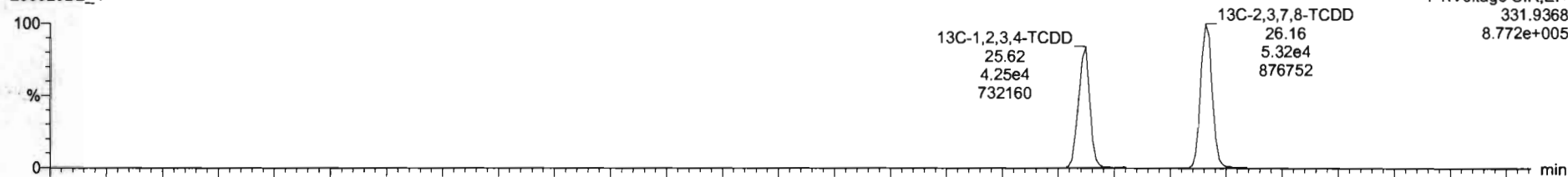
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200526D2_4

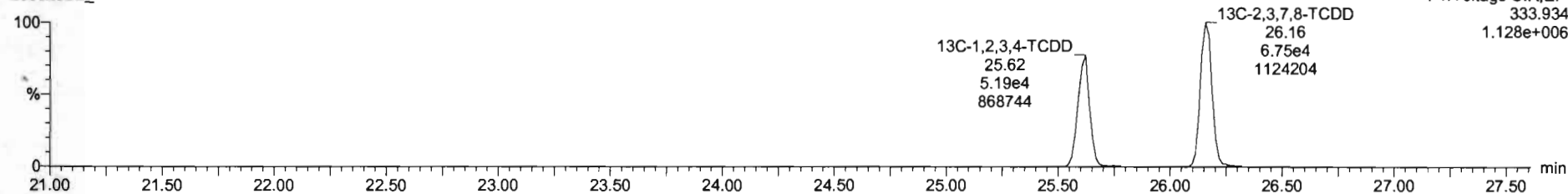


13C-1,2,3,4-TCDD

200526D2_4



200526D2_4



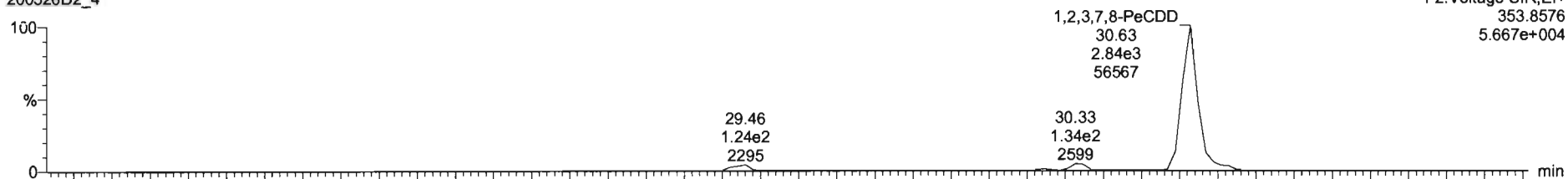
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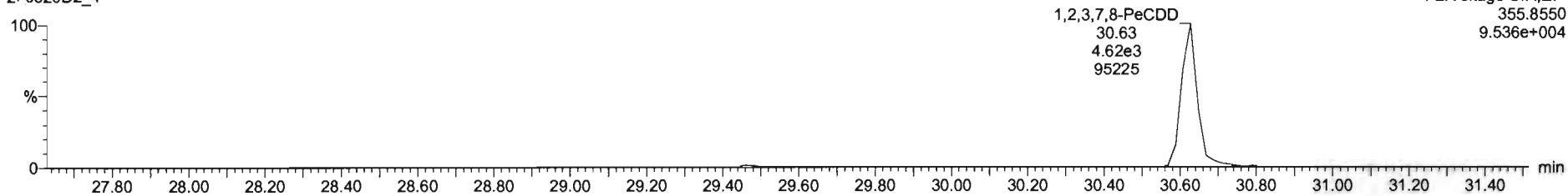
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1,2,3,7,8-PeCDD

200526D2_4

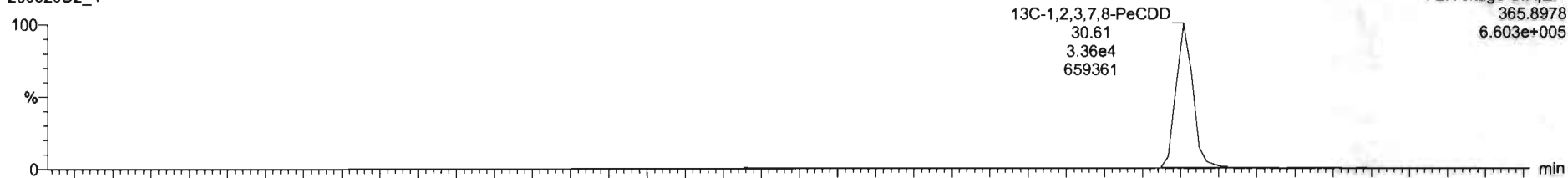


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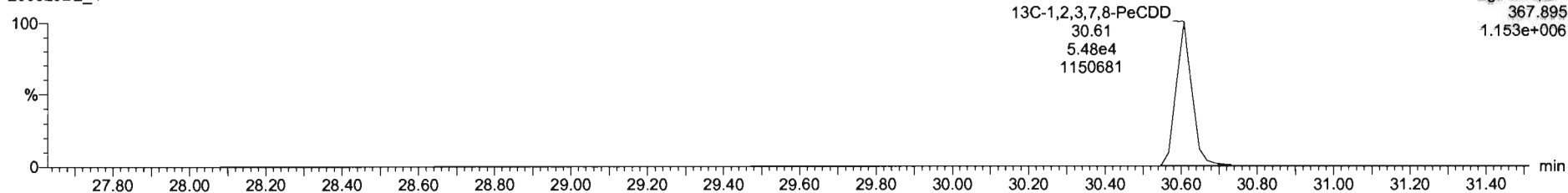


13C-1,2,3,7,8-PeCDD

200526D2_4



200526D2_4



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

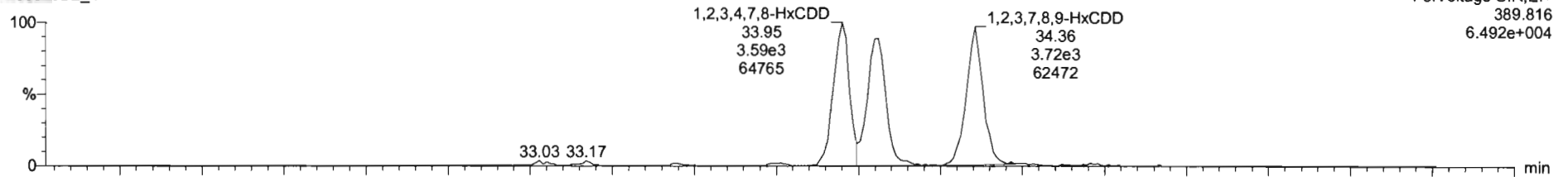
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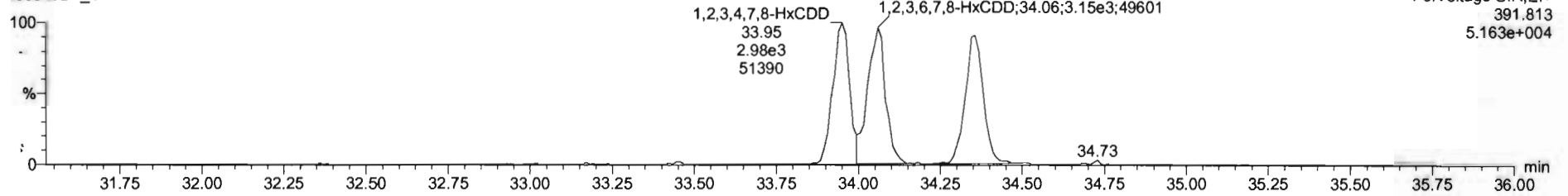
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1,2,3,4,7,8-HxCDD

200526D2_4

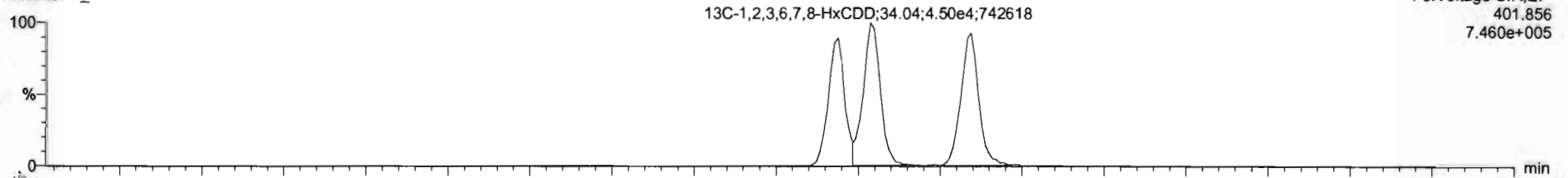


200526D2_4

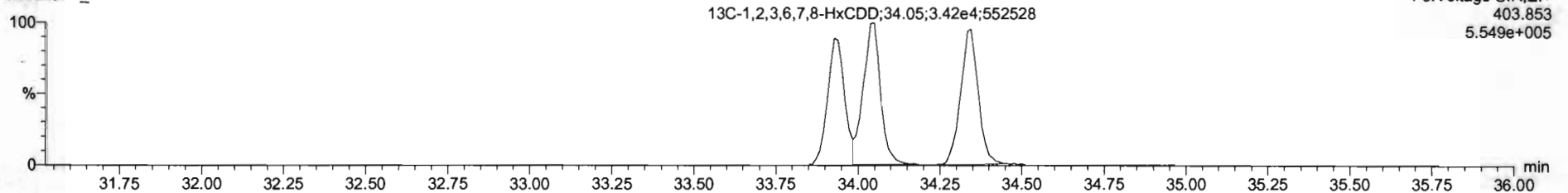


13C-1,2,3,4,7,8-HxCDD

200526D2_4



200526D2_4



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

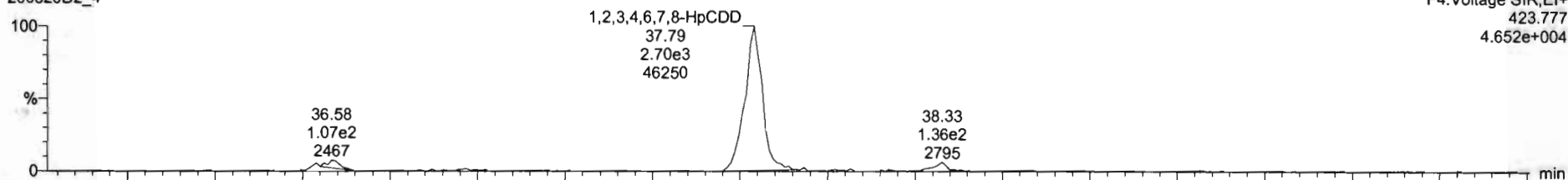
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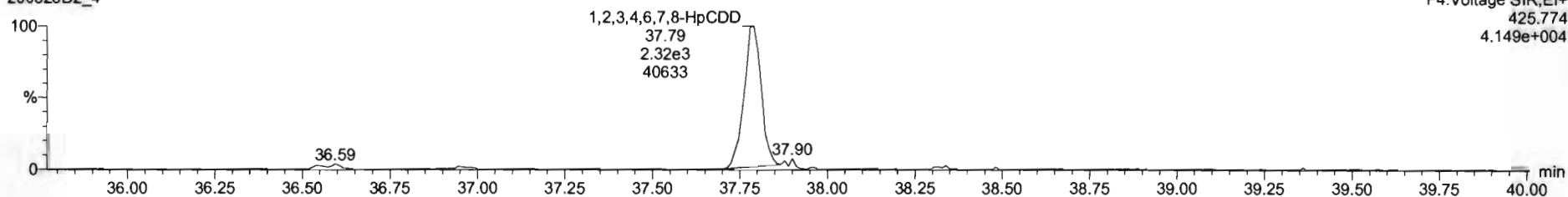
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1,2,3,4,6,7,8-HpCDD

200526D2_4

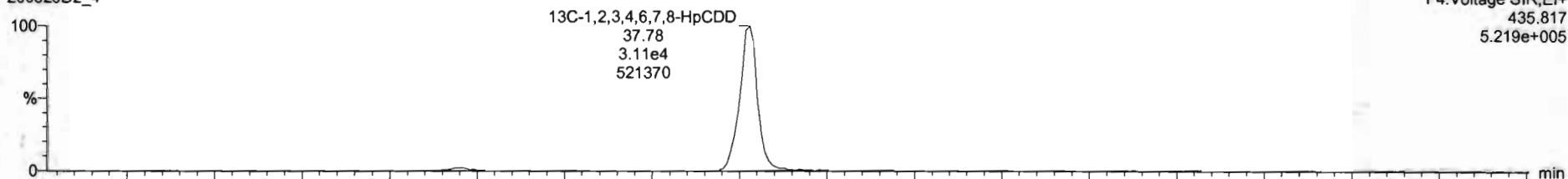


200526D2_4

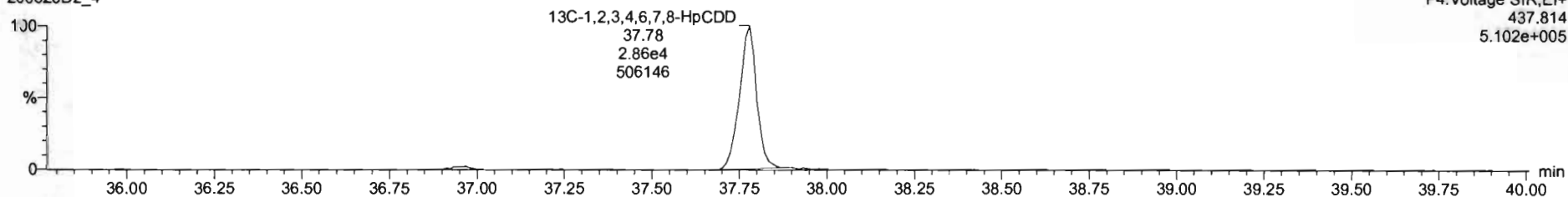


13C-1,2,3,4,6,7,8-HpCDD

200526D2_4



200526D2_4



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

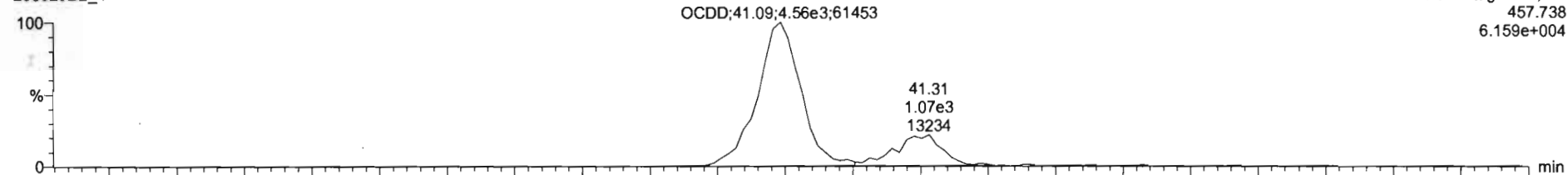
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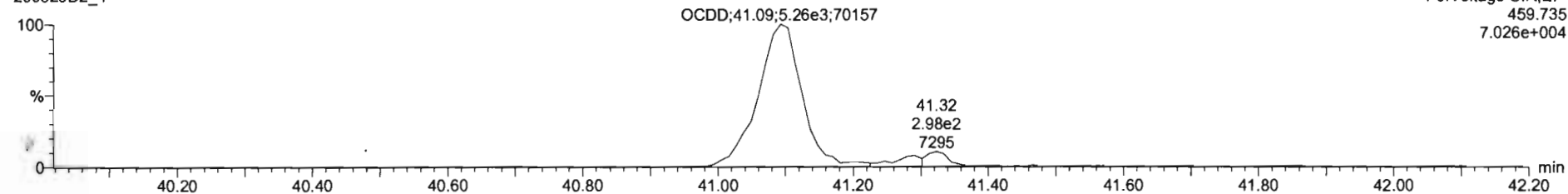
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OCDD

200526D2_4

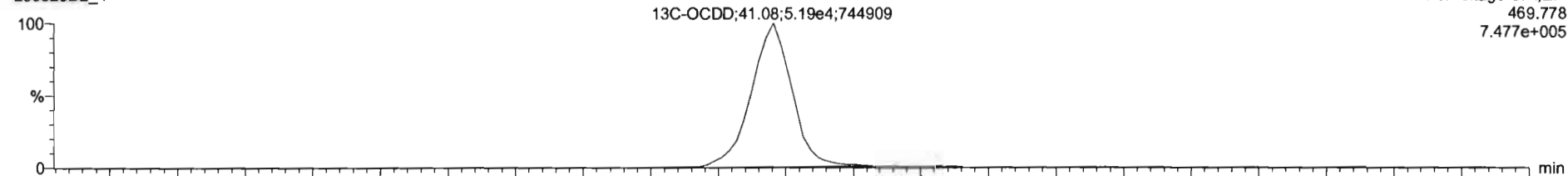


200526D2_4

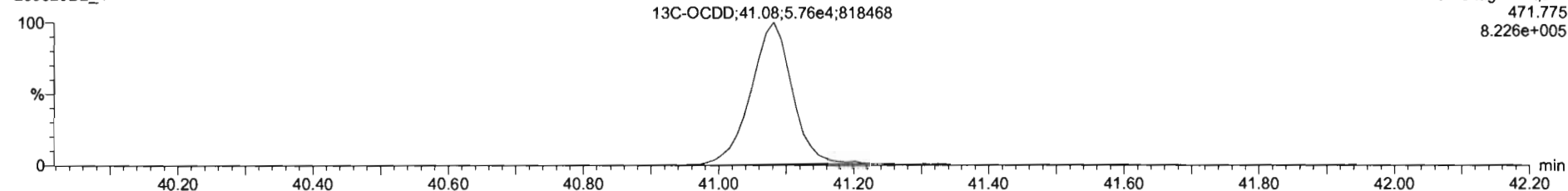


13C-OCDD

200526D2_4



200526D2_4



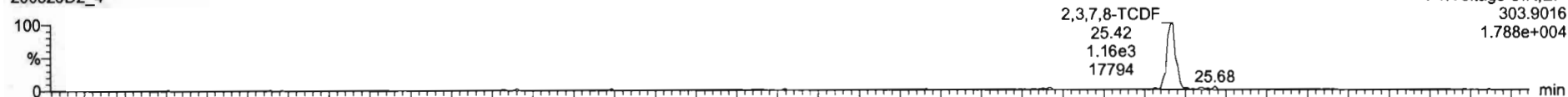
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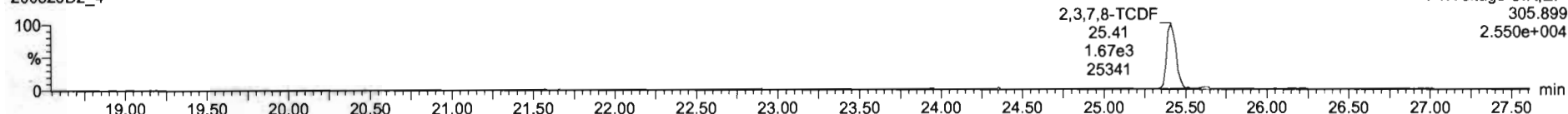
2,3,7,8-TCDF

200526D2_4



F1:Voltage SIR,EI+
303.9016
1.788e+004

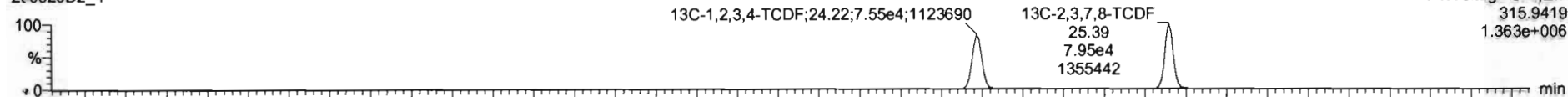
200526D2_4



F1:Voltage SIR,EI+
305.899
2.550e+004

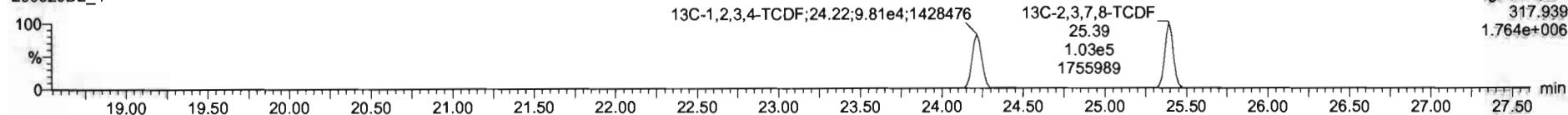
13C-2,3,7,8-TCDF

200526D2_4



F1:Voltage SIR,EI+
315.9419
1.363e+006

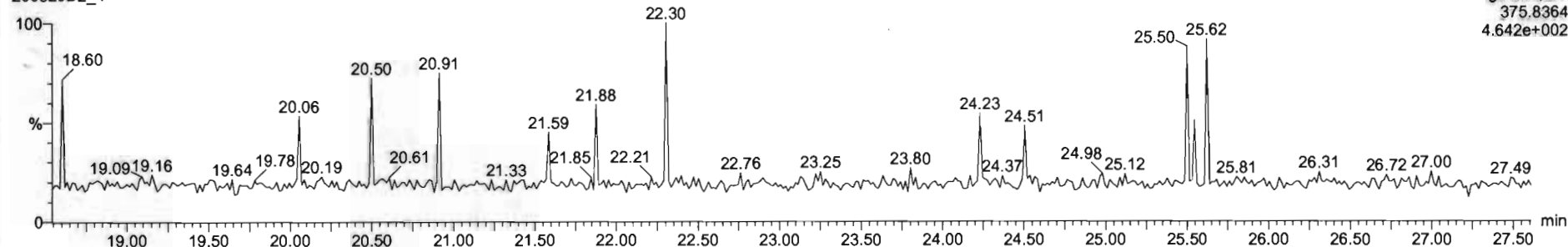
200526D2_4



F1:Voltage SIR,EI+
317.939
1.764e+006

CPE1

200526D2_4



F1:Voltage SIR,EI+
375.8364
4.642e+002

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

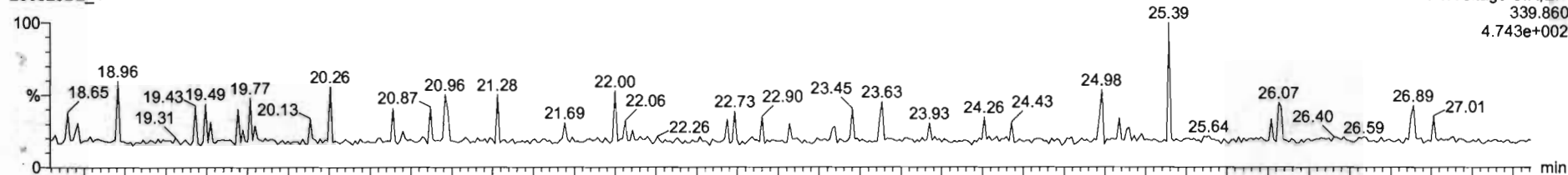
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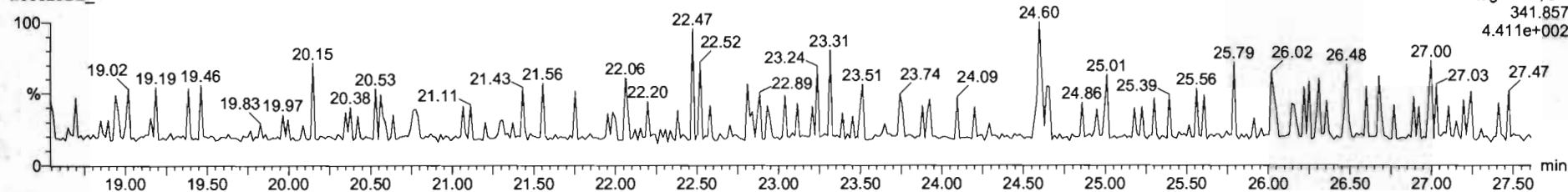
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200526D2_4

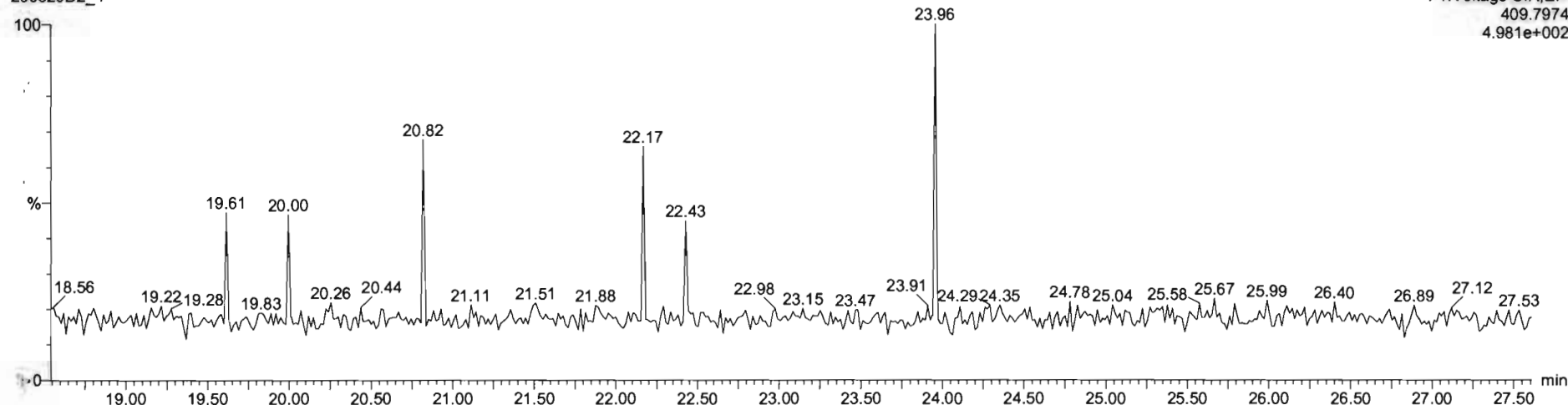


200526D2_4



DPE6

200526D2_4



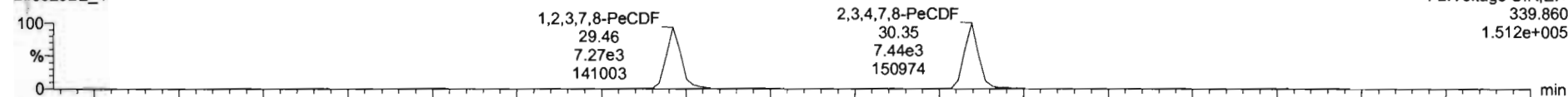
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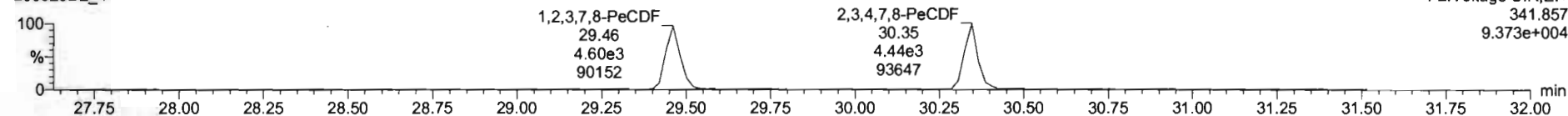
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1,2,3,7,8-PeCDF

200526D2_4

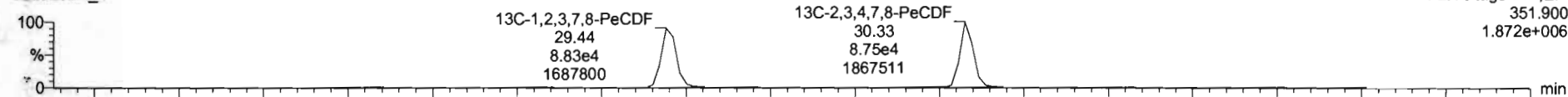


200526D2_4

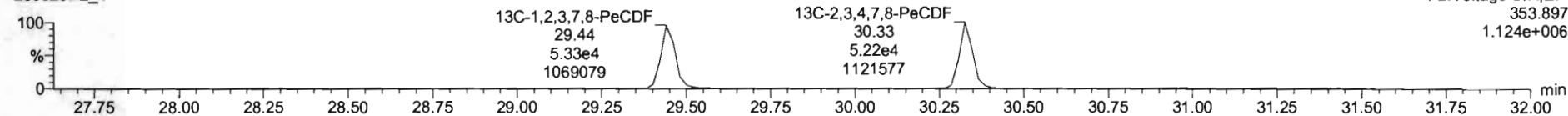


13C-1,2,3,7,8-PeCDF

200526D2_4

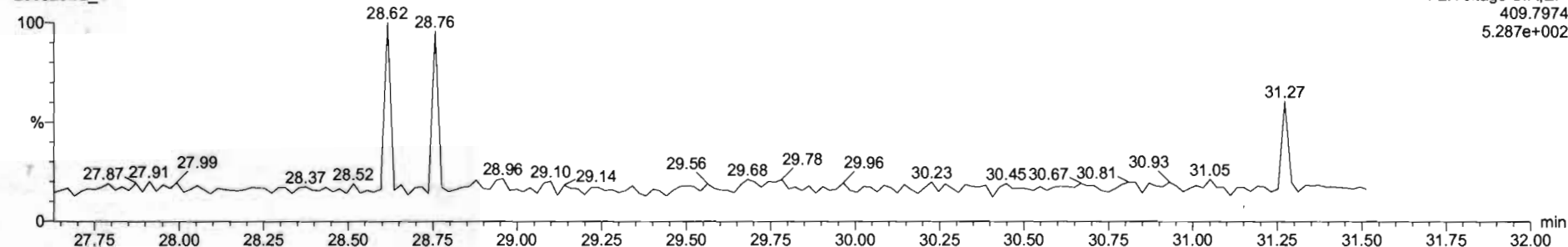


200526D2_4



DPE2

200526D2_4



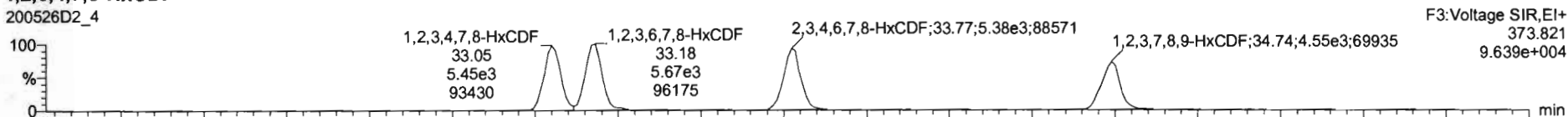
Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

Last Altered: Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time
Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

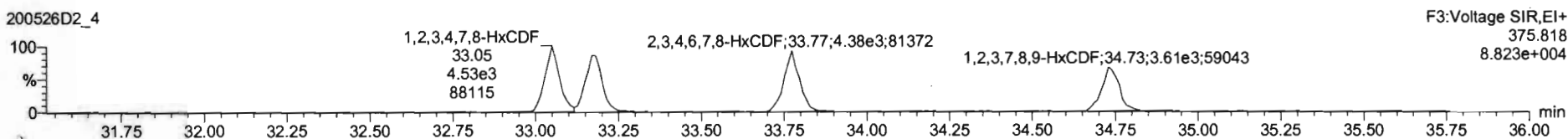
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1,2,3,4,7,8-HxCDF

200526D2_4

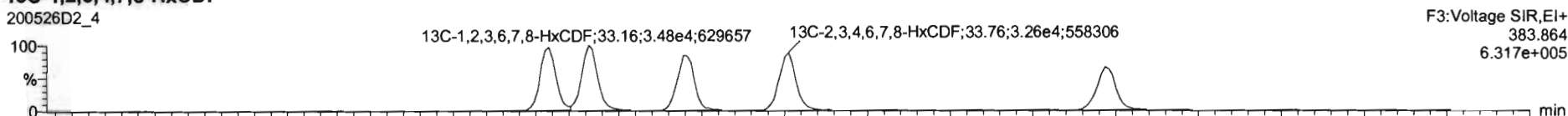


200526D2_4

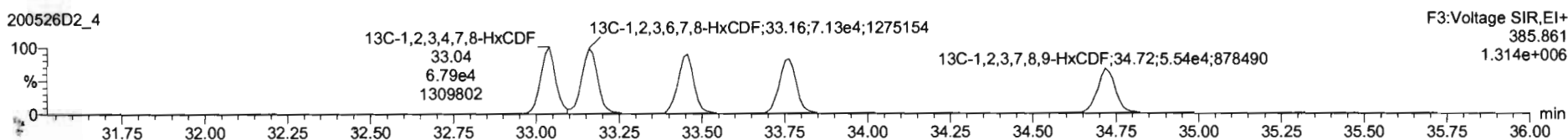


13C-1,2,3,4,7,8-HxCDF

200526D2_4

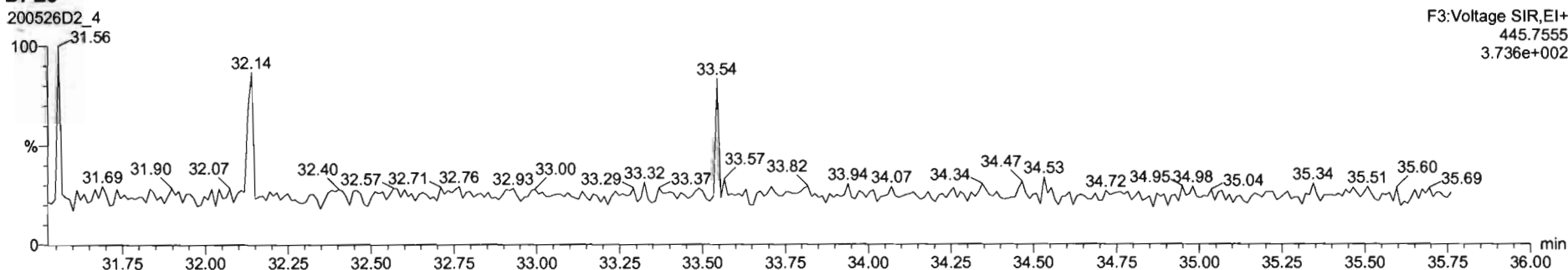


200526D2_4



DPE3

200526D2_4



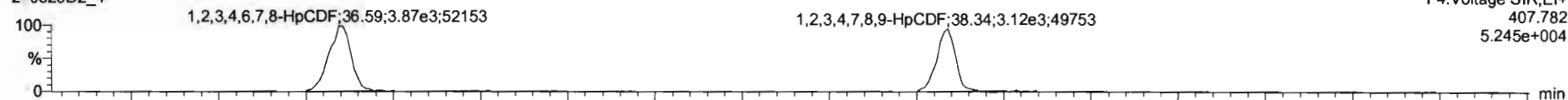
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

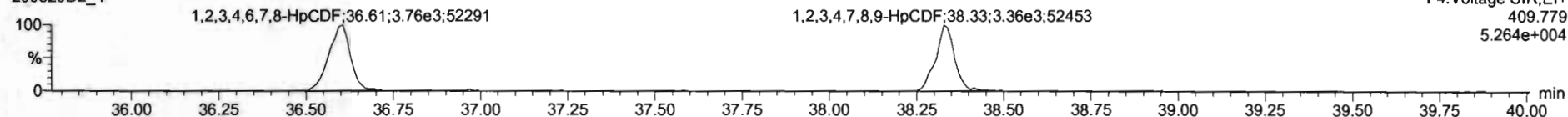
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1,2,3,4,6,7,8-HpCDF

200526D2_4

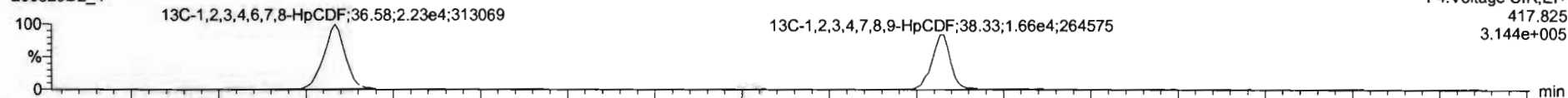


200526D2_4

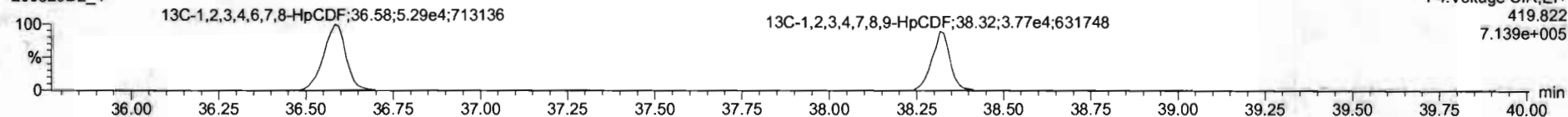


13C-1,2,3,4,6,7,8-HpCDF

200526D2_4

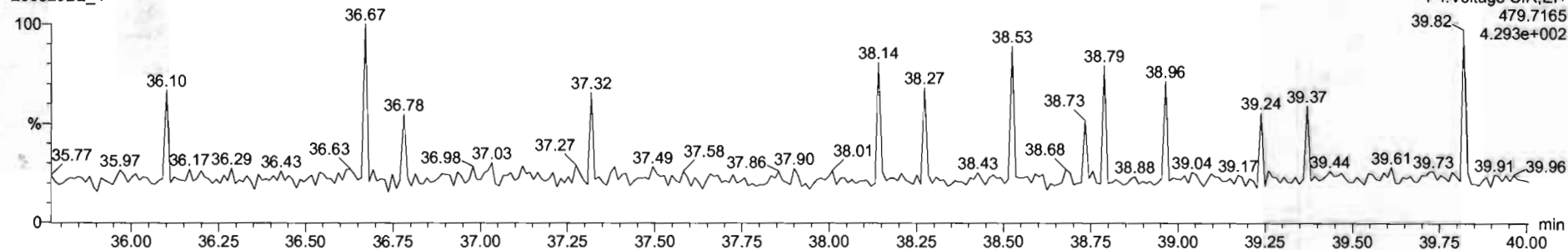


200526D2_4



DPE4

200526D2_4



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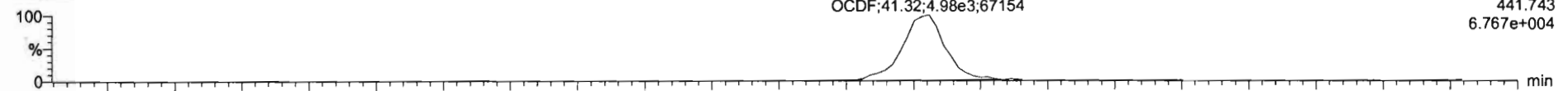
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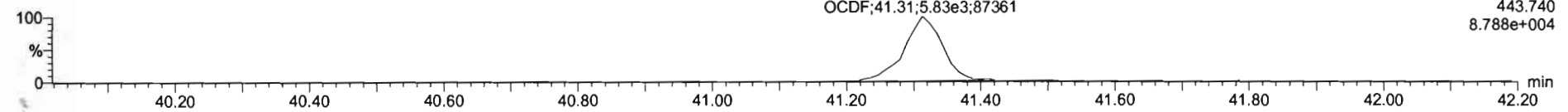
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OCDF

200526D2_4

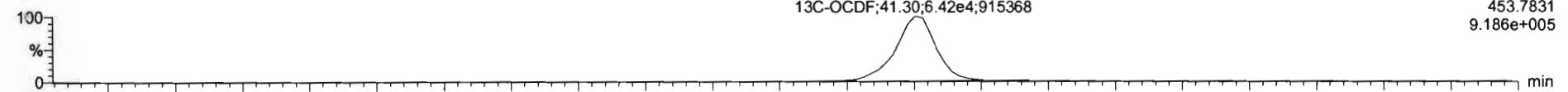


200526D2_4

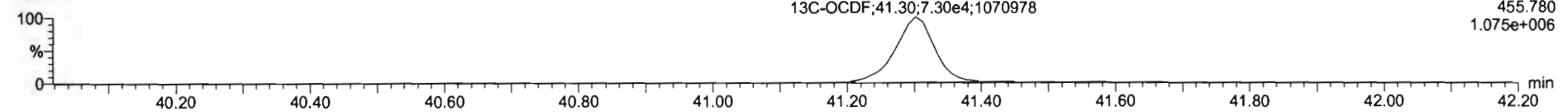


13C-OCDF

200526D2_4

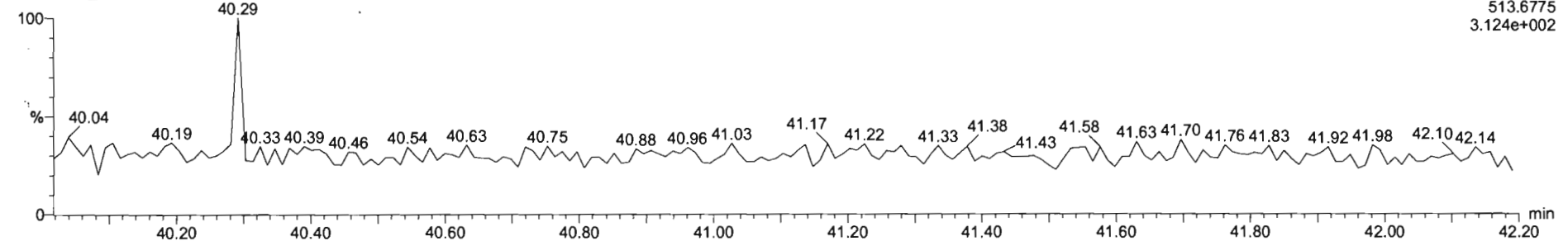


200526D2_4



DPE5

200526D2_4

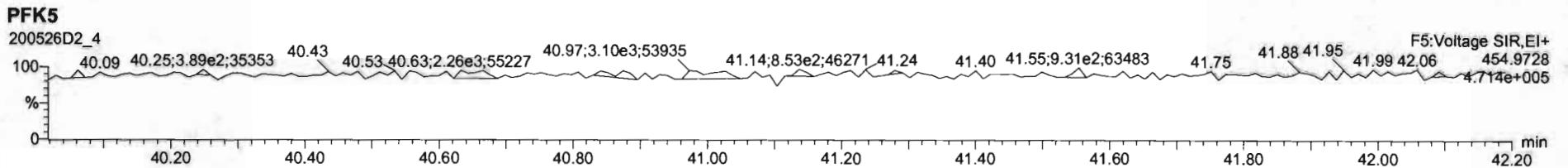
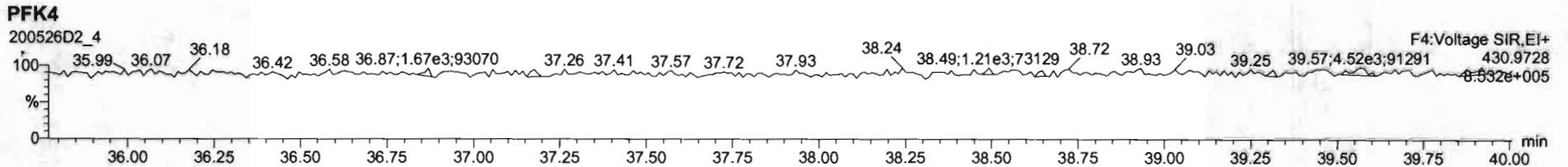
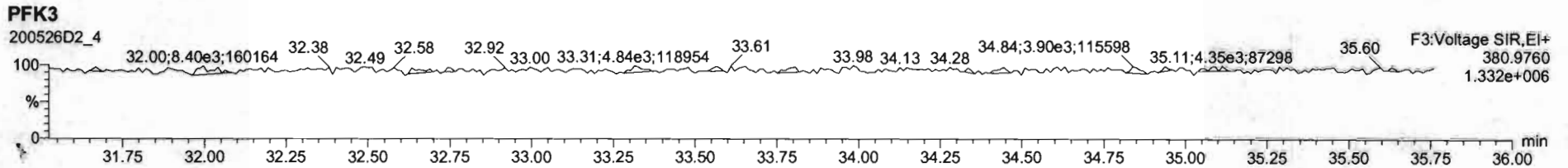
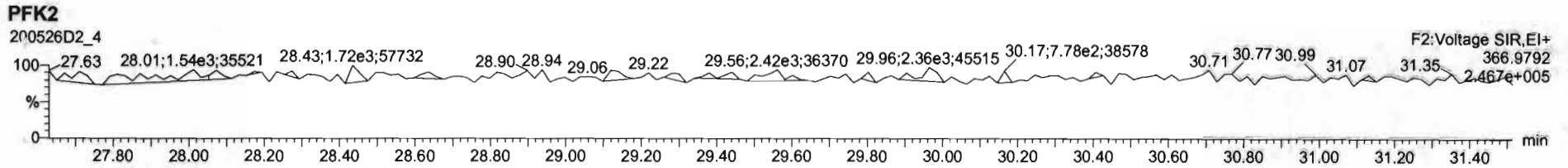
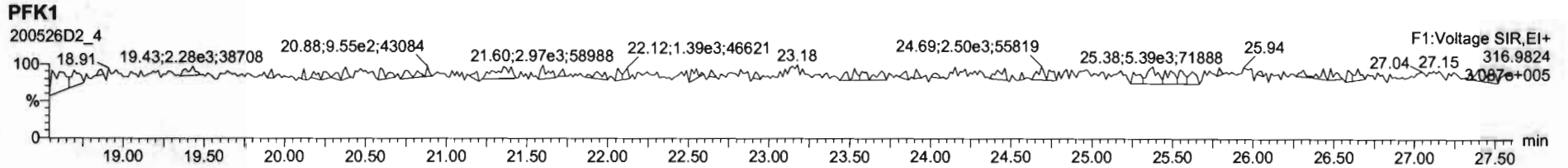


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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

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Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

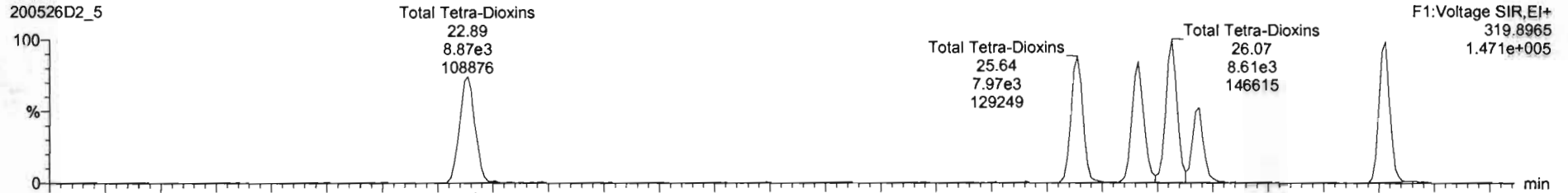
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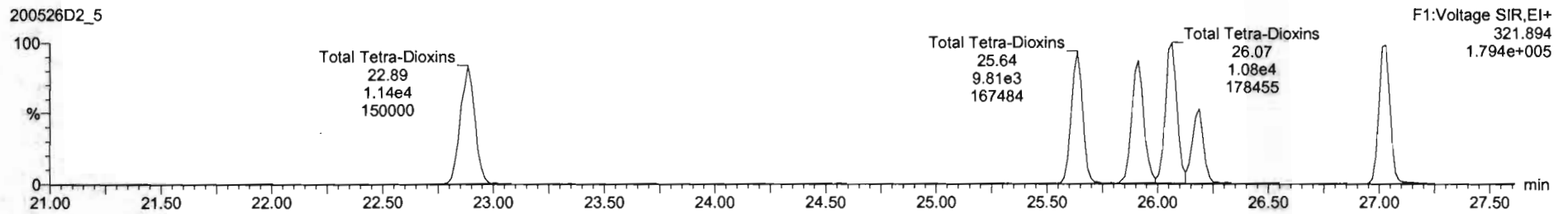
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2,3,7,8-TCDD

200526D2_5

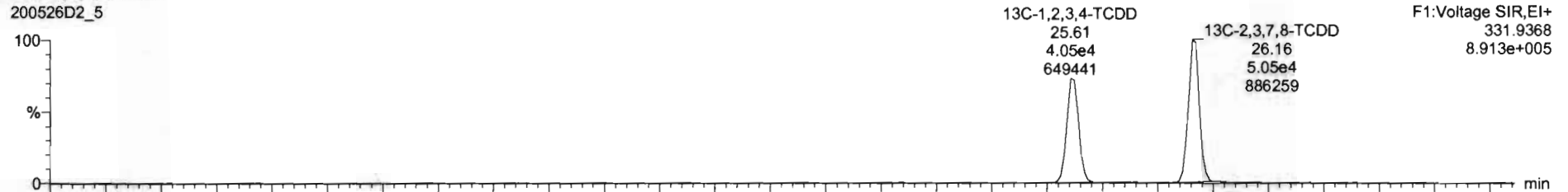


200526D2_5

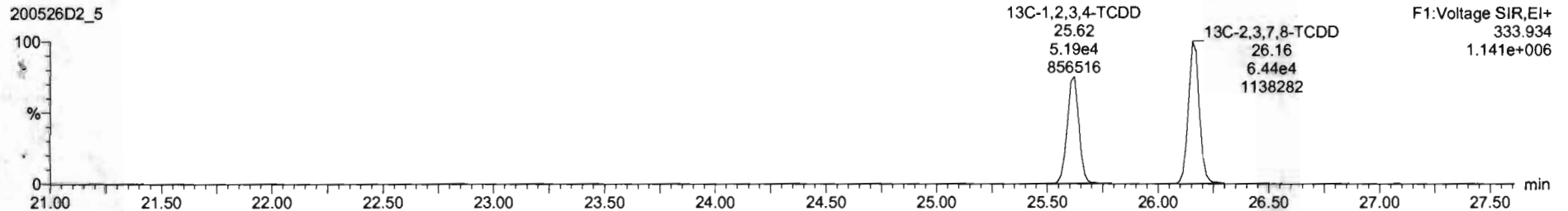


¹³C-2,3,7,8-TCDD

200526D2_5



200526D2_5

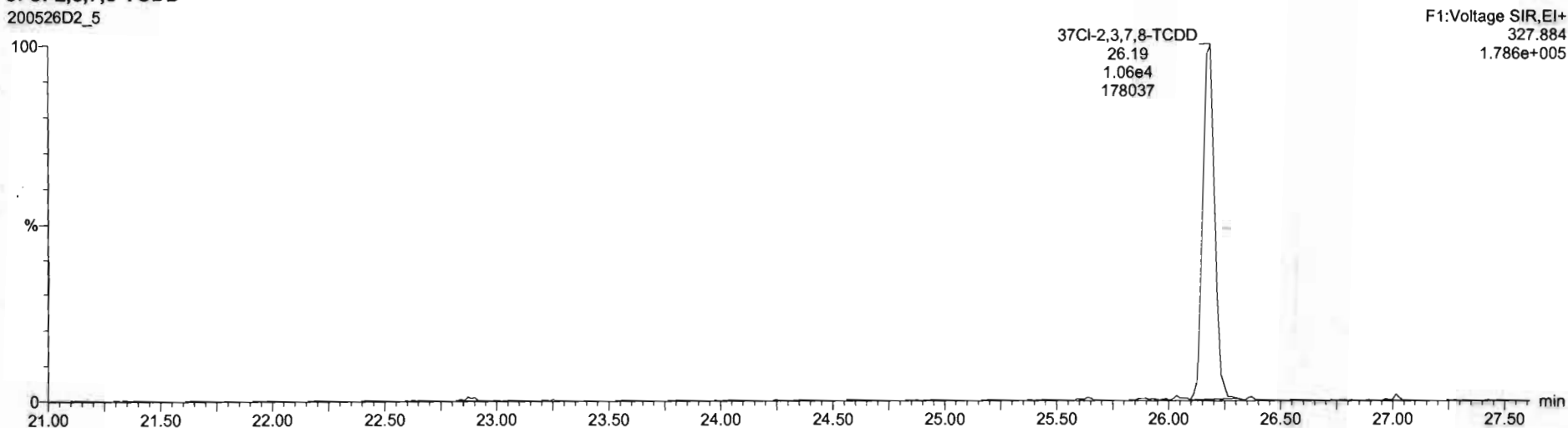


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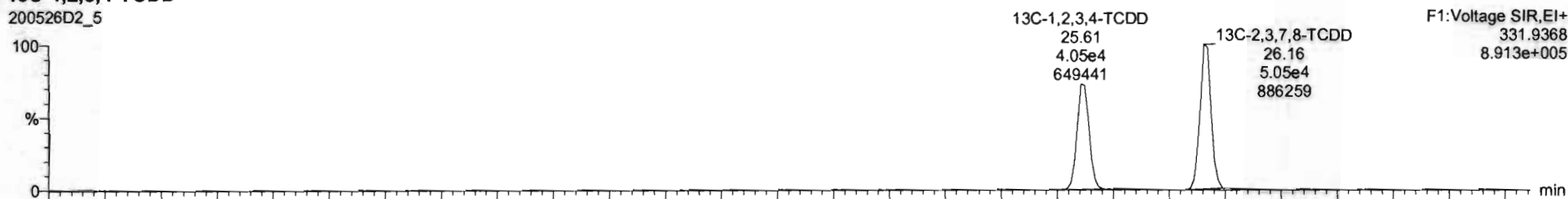
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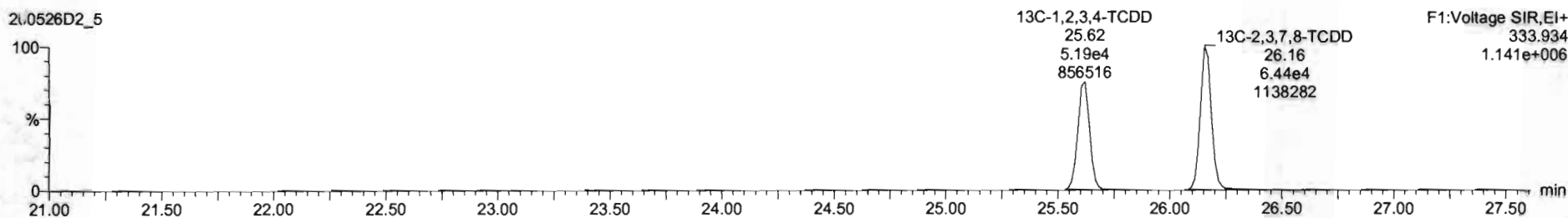
37Cl-2,3,7,8-TCDD
200526D2_5



13C-1,2,3,4-TCDD
200526D2_5



200526D2_5



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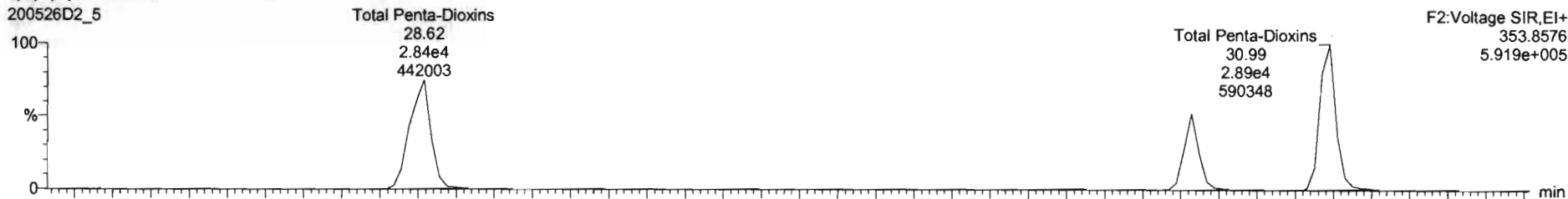
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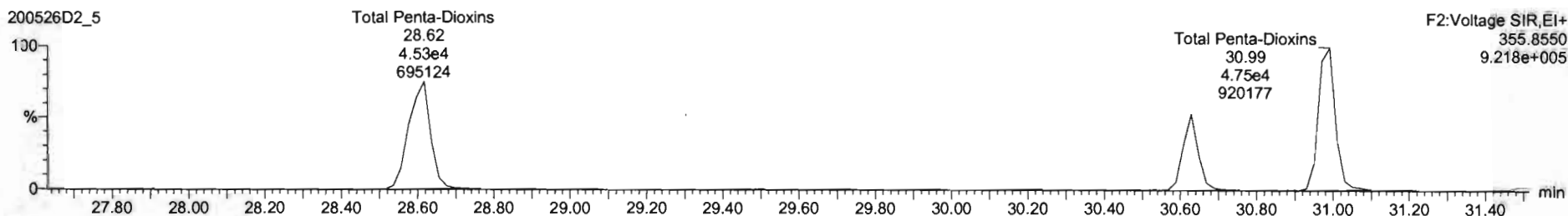
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1,2,3,7,8-PeCDD

200526D2_5

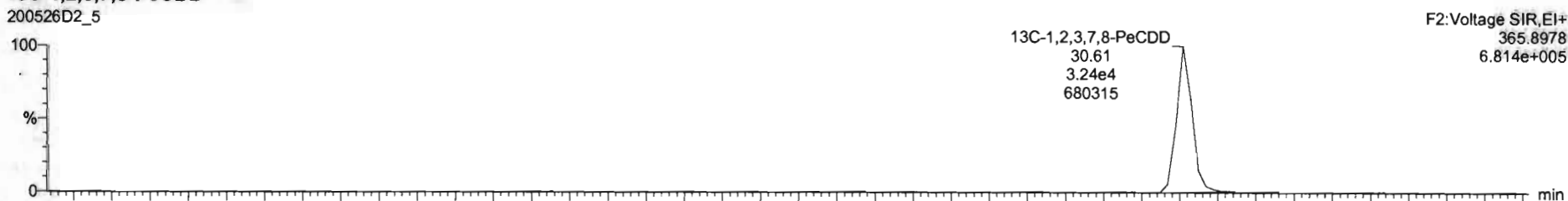


200526D2_5

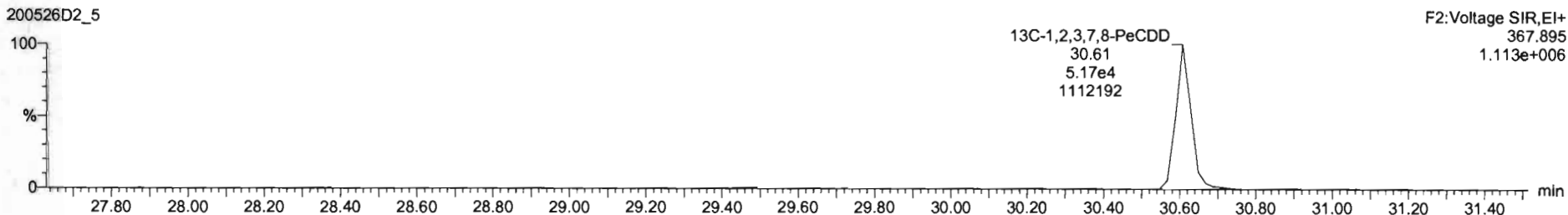


13C-1,2,3,7,8-PeCDD

200526D2_5



200526D2_5



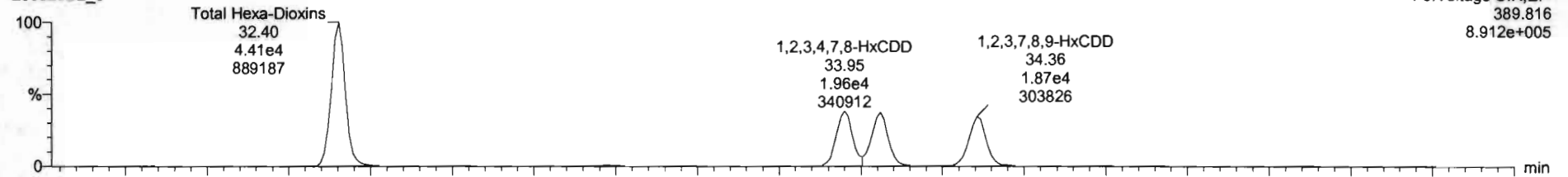
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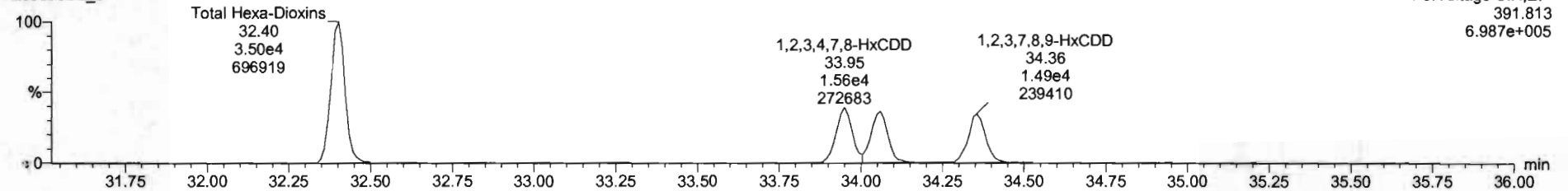
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1,2,3,4,7,8-HxCDD

200526D2_5

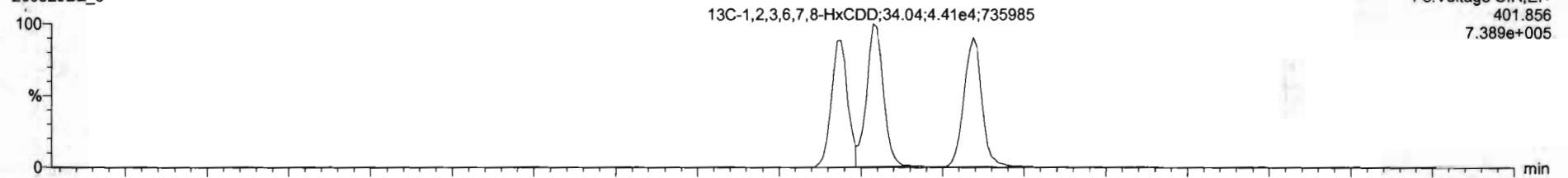


200526D2_5

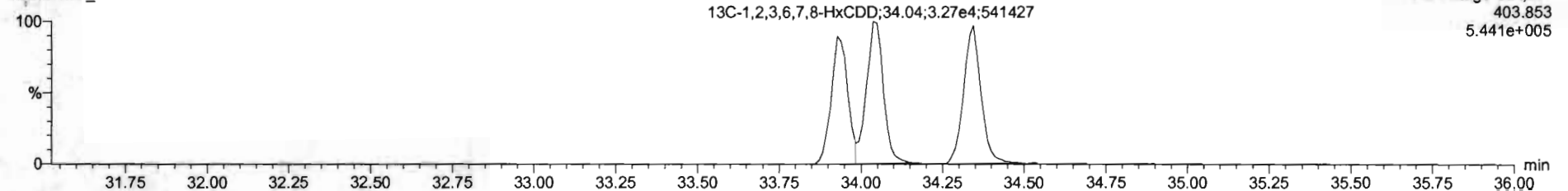


13C-1,2,3,4,7,8-HxCDD

200526D2_5



200526D2_5



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

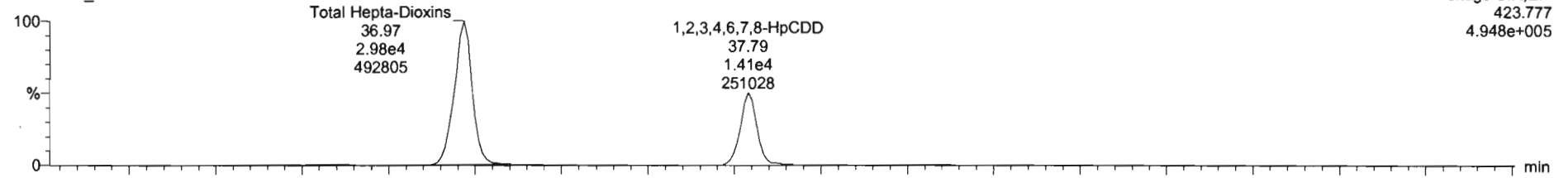
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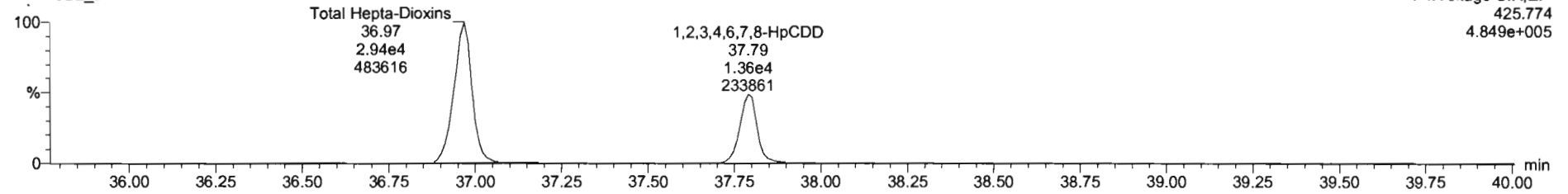
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1,2,3,4,6,7,8-HpCDD

200526D2_5

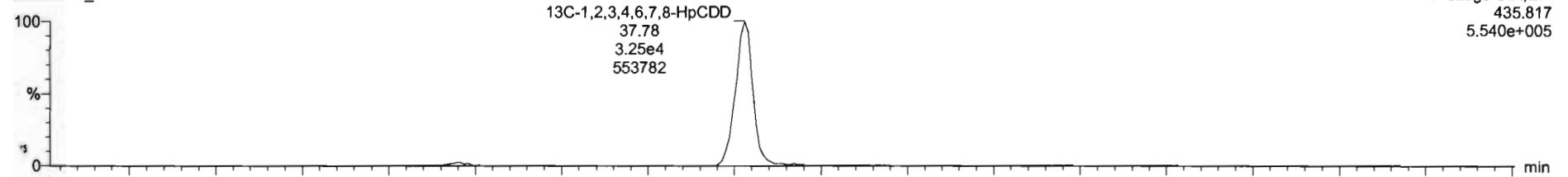


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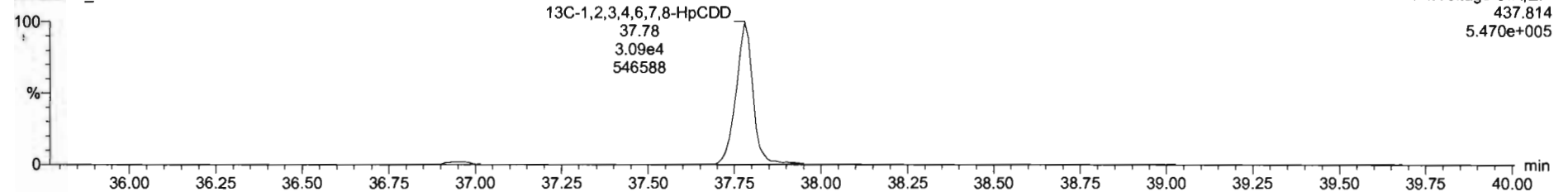


13C-1,2,3,4,6,7,8-HpCDD

200526D2_5



200526D2_5



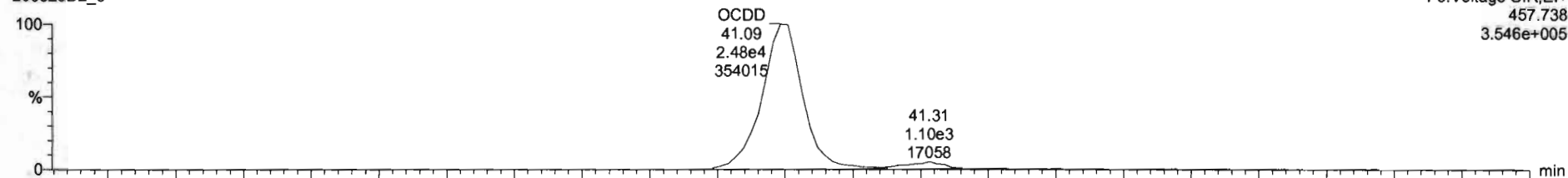
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

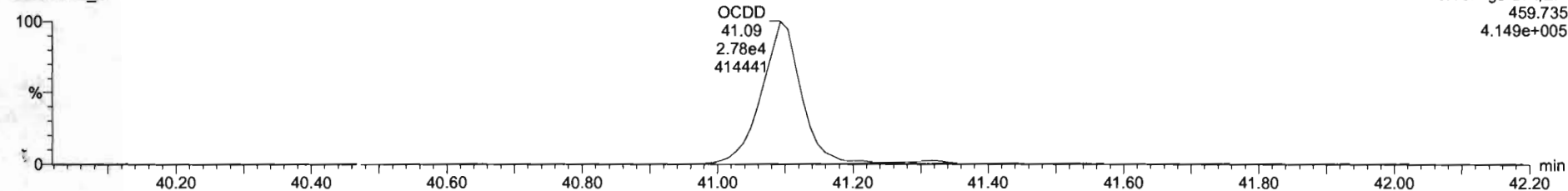
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OCDD

200526D2_5

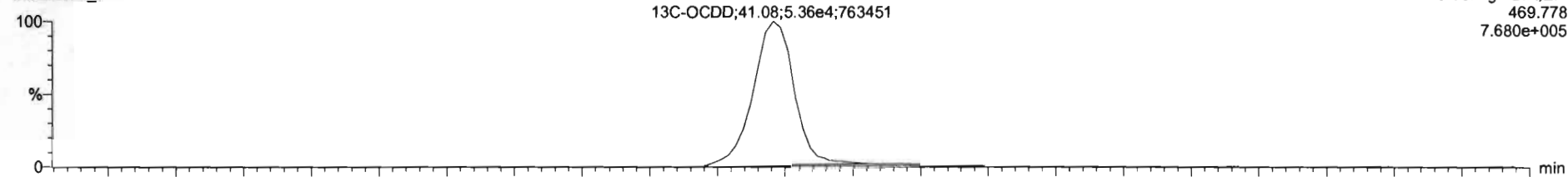


200526D2_5

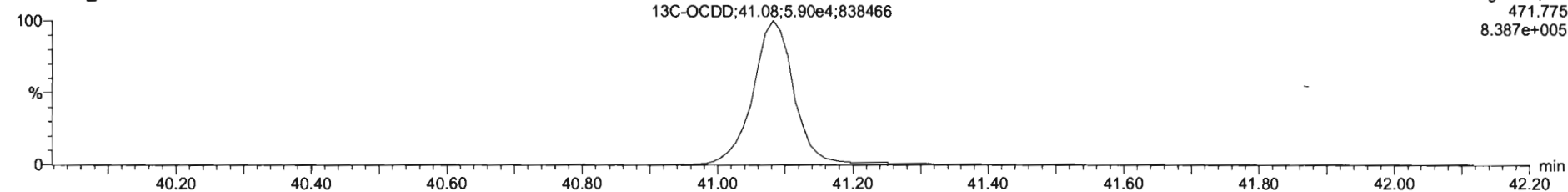


13C-OCDD

200526D2_5



200526D2_5



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

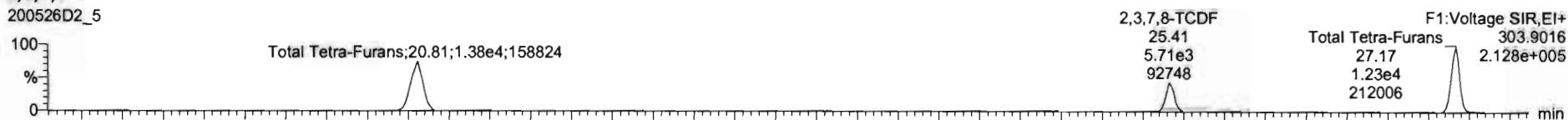
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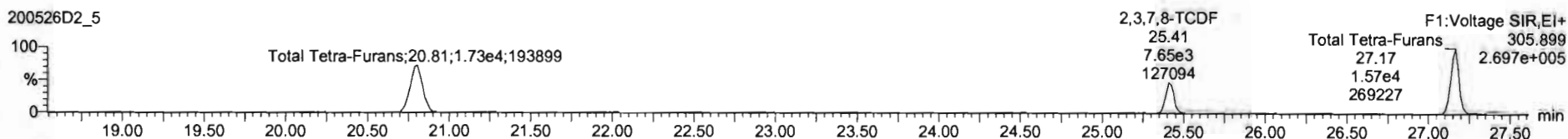
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2,3,7,8-TCDF

200526D2_5

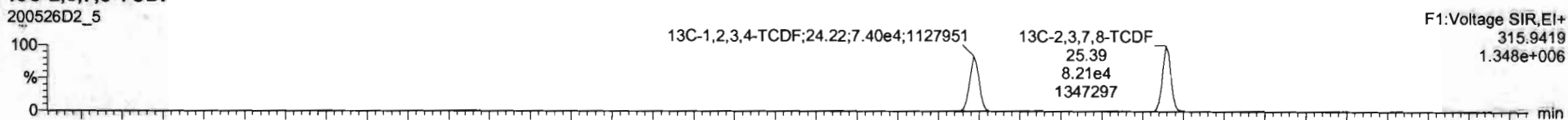


200526D2_5

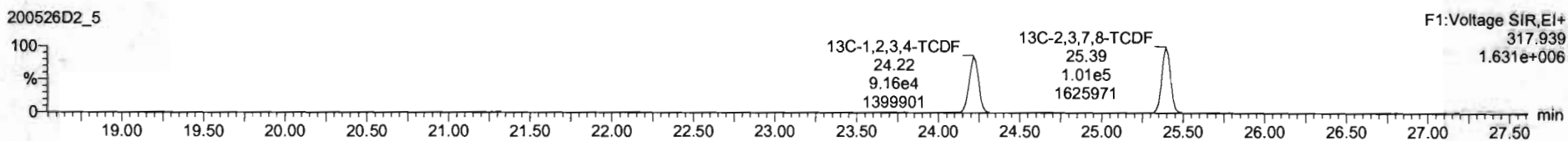


13C-2,3,7,8-TCDF

200526D2_5

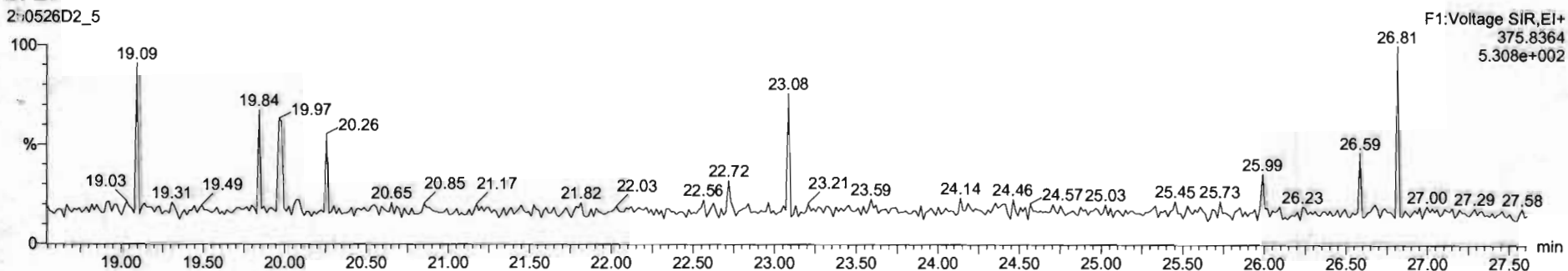


200526D2_5



DPE1

200526D2_5



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

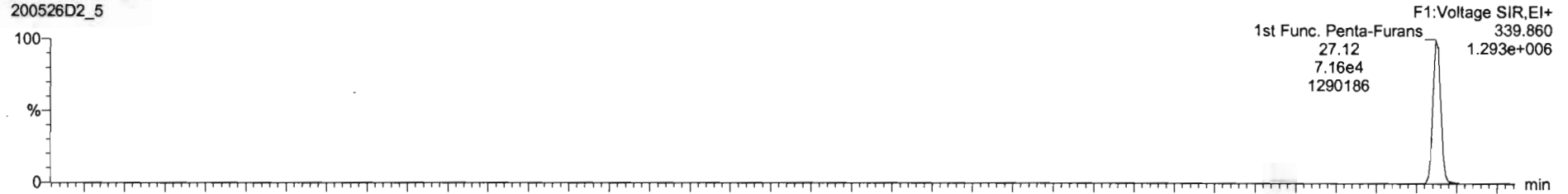
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

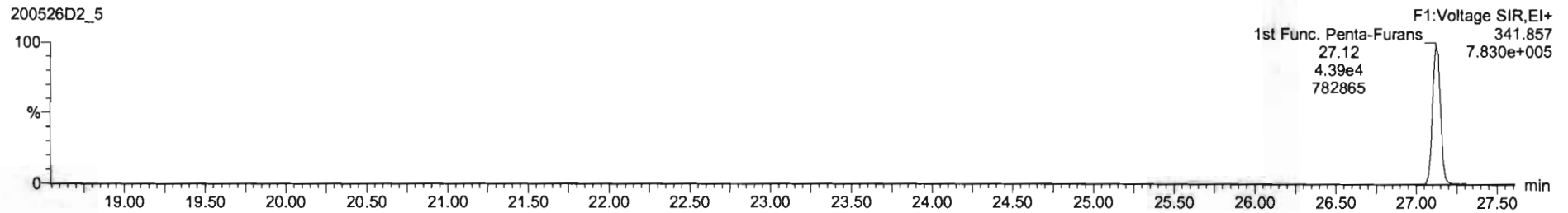
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1st Func. Penta-Furans

200526D2_5

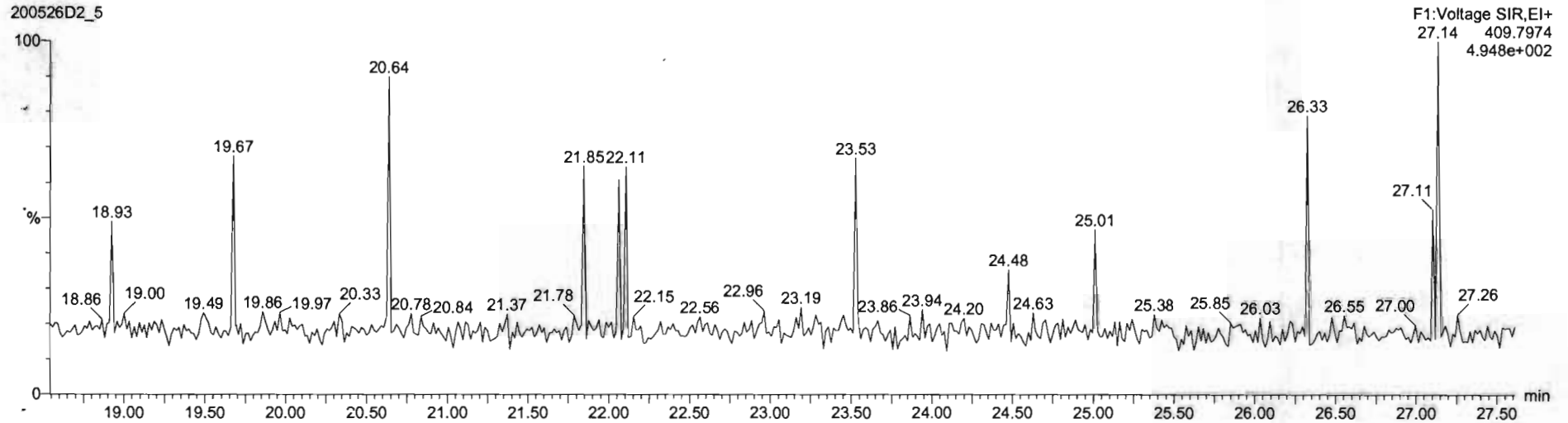


200526D2_5



DPE6

200526D2_5



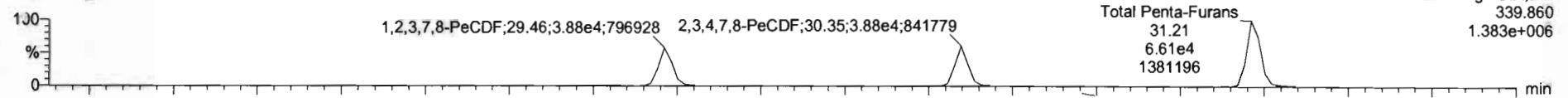
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

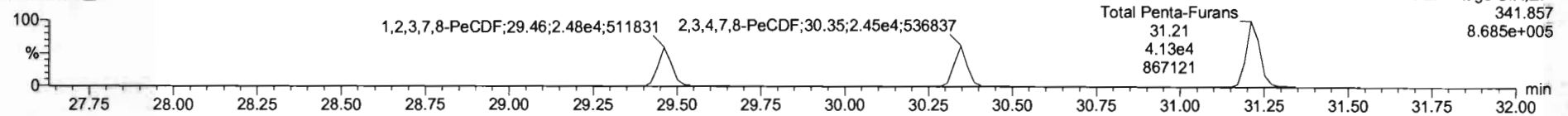
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1,2,3,7,8-PeCDF

200526D2_5

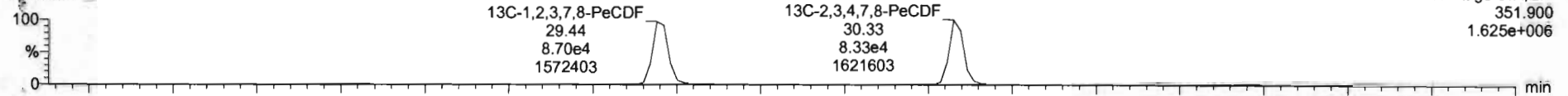


200526D2_5

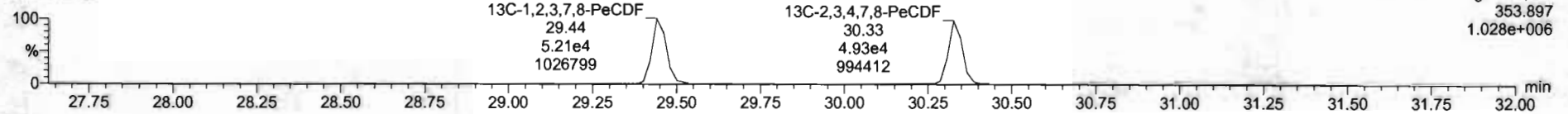


13C-1,2,3,7,8-PeCDF

200526D2_5

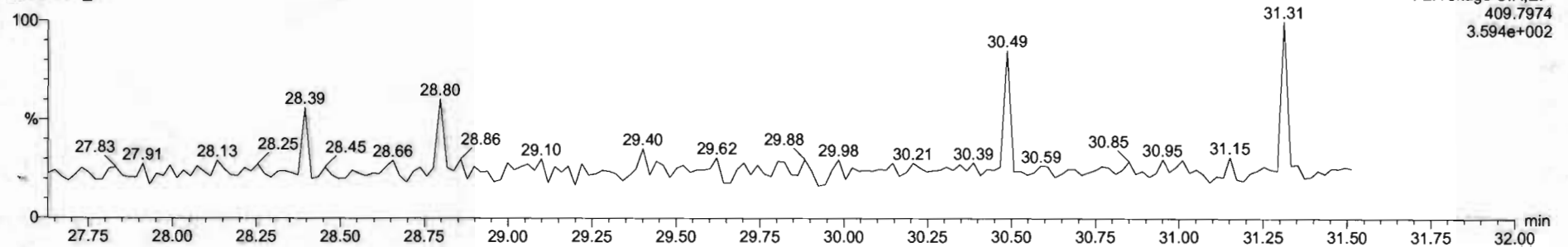


200526D2_5



DPE2

200526D2_5



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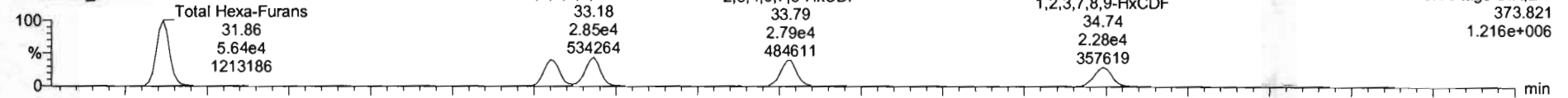
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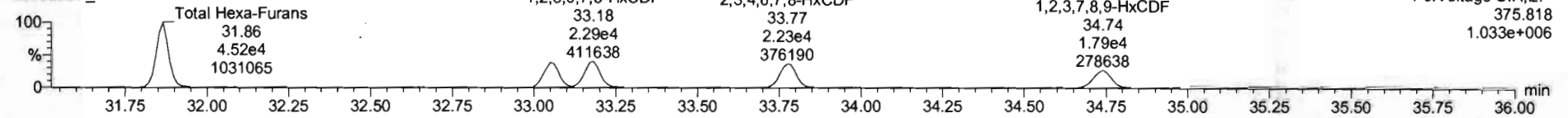
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1,2,3,4,7,8-HxCDF

200526D2_5

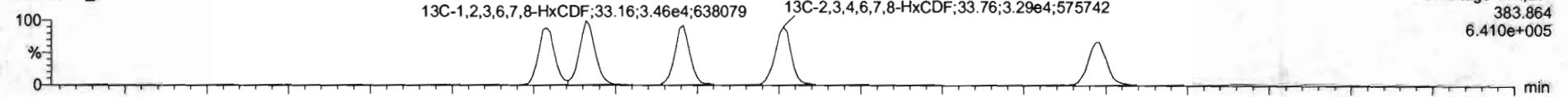


200526D2_5

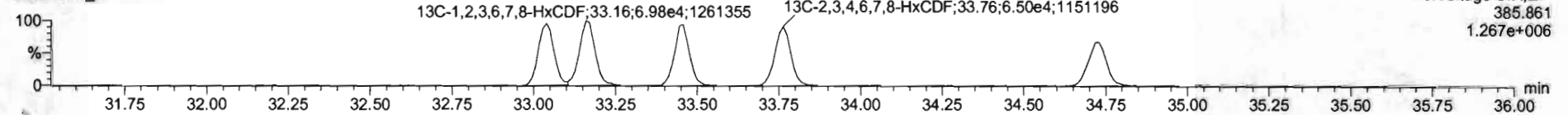


13C-1,2,3,4,7,8-HxCDF

200526D2_5

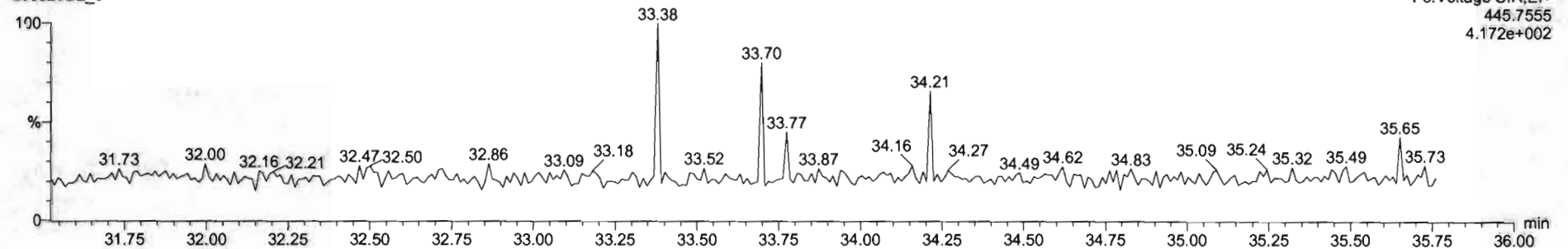


200526D2_5



DPE3

200526D2_5



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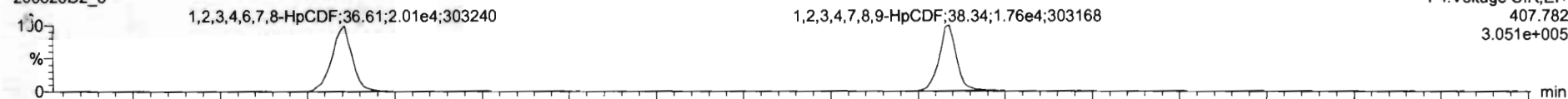
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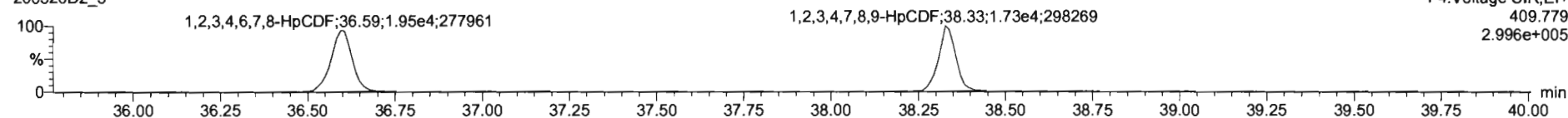
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1,2,3,4,6,7,8-HpCDF

200526D2_5

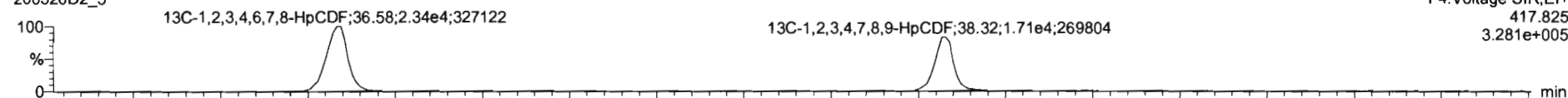


200526D2_5

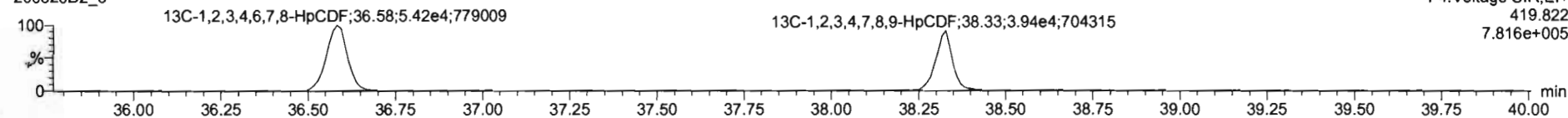


13C-1,2,3,4,6,7,8-HpCDF

200526D2_5

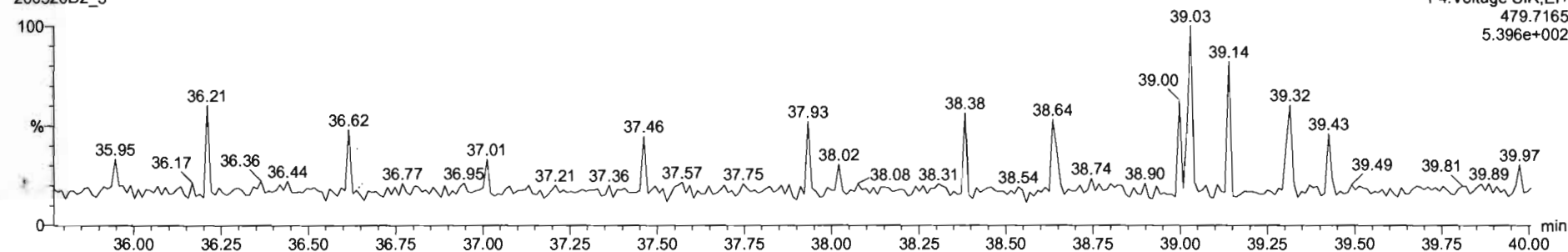


200526D2_5



DPE4

200526D2_5



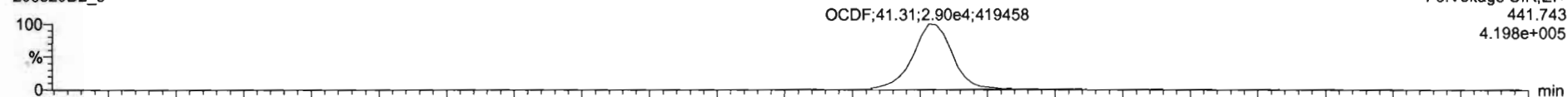
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Last Altered: Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time
Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

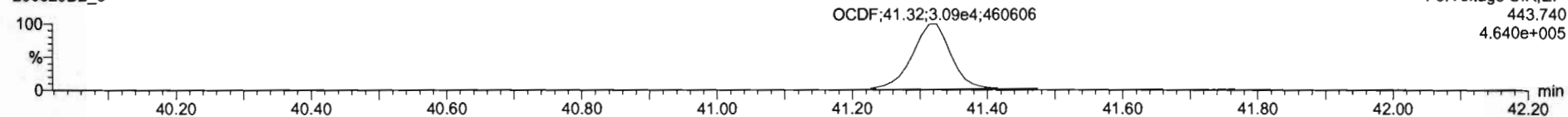
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OCDF

200526D2_5

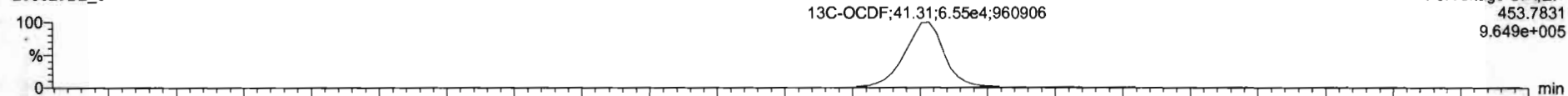


200526D2_5

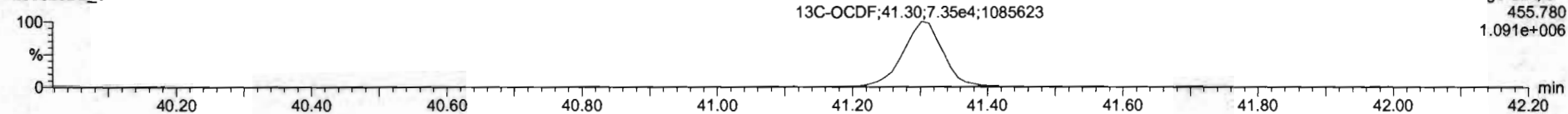


13C-OCDF

200526D2_5

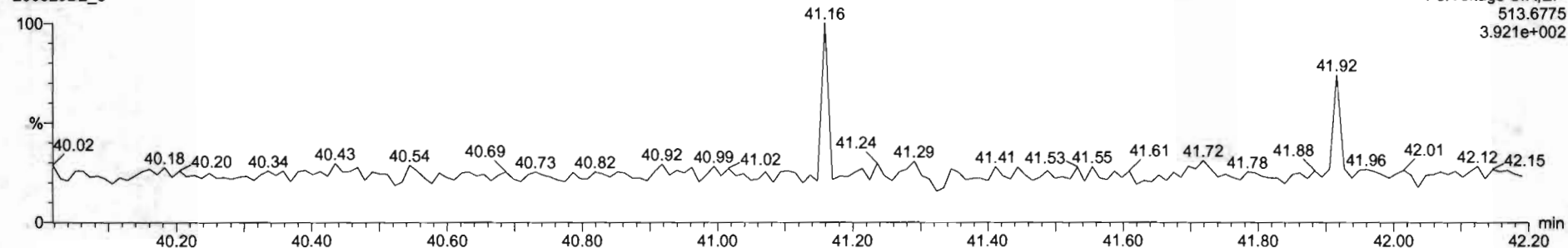


200526D2_5



DPE5

200526D2_5

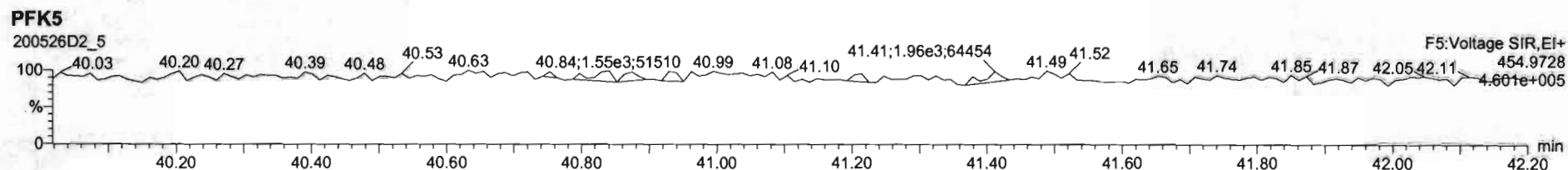
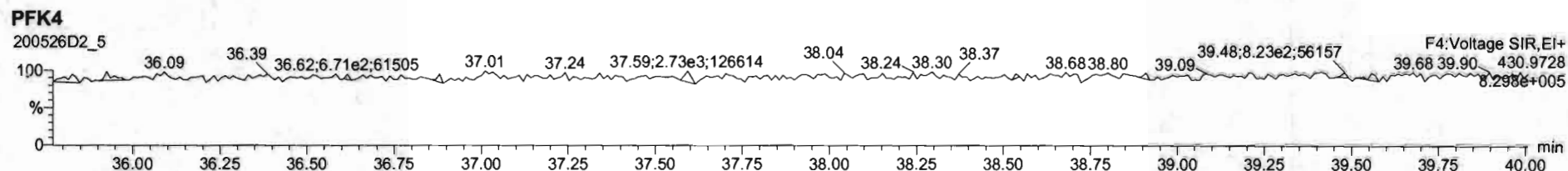
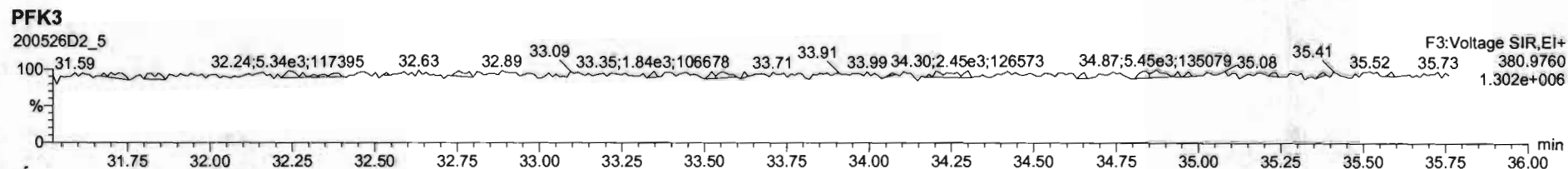
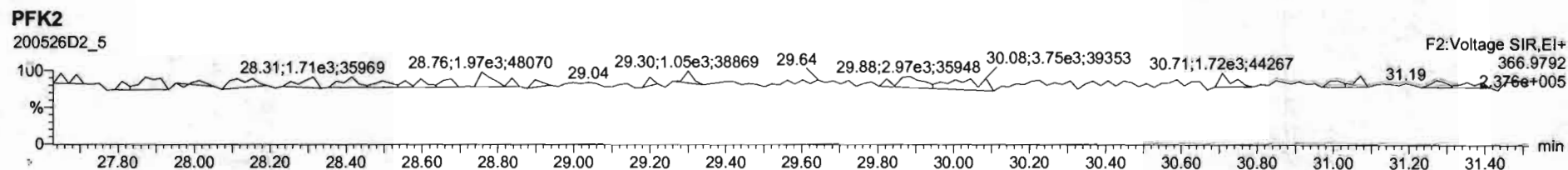
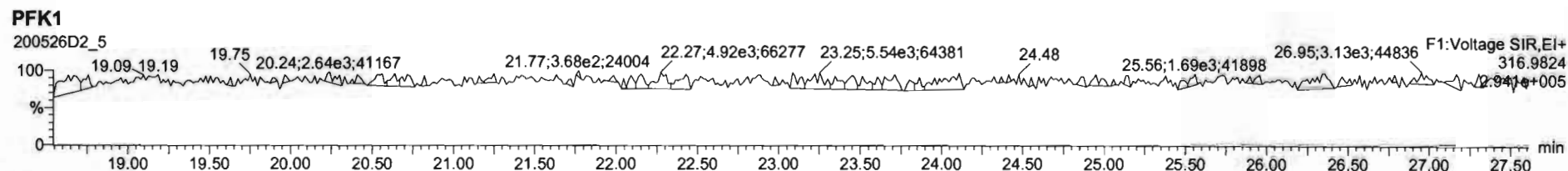


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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

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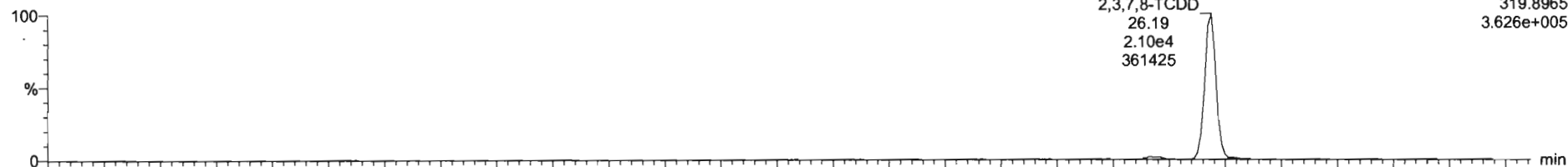
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

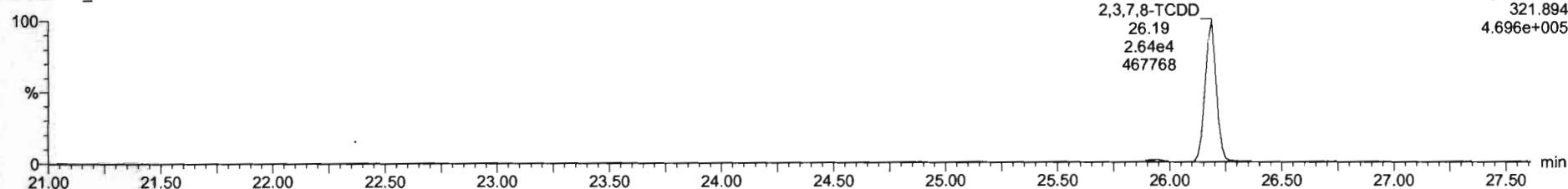
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2,3,7,8-TCDD

200526D2_6

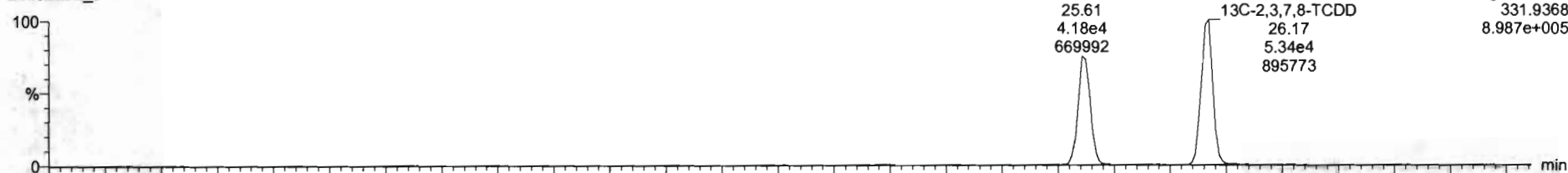


200526D2_6

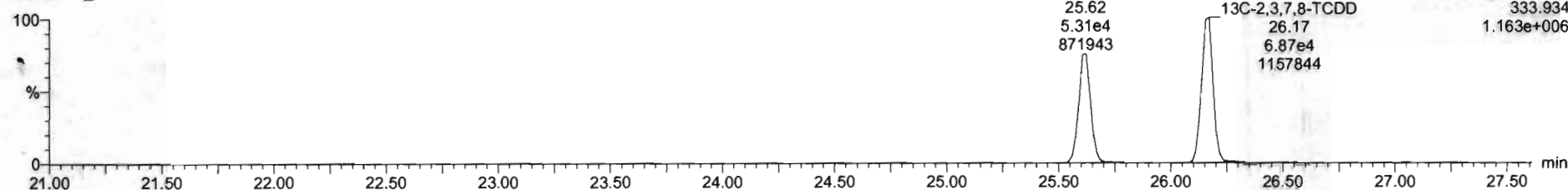


13C-2,3,7,8-TCDD

200526D2_6



200526D2_6

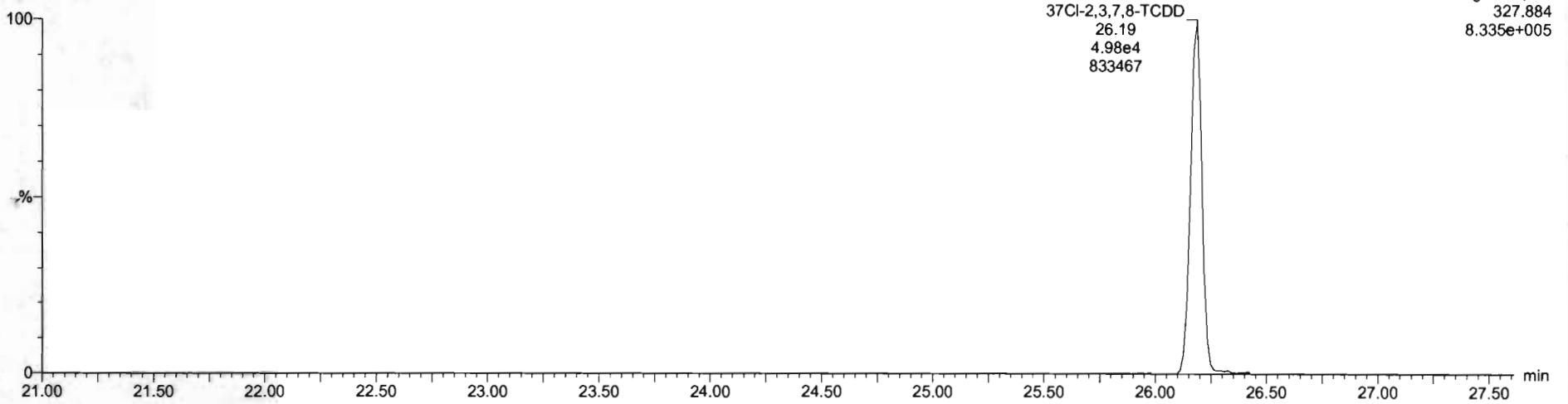


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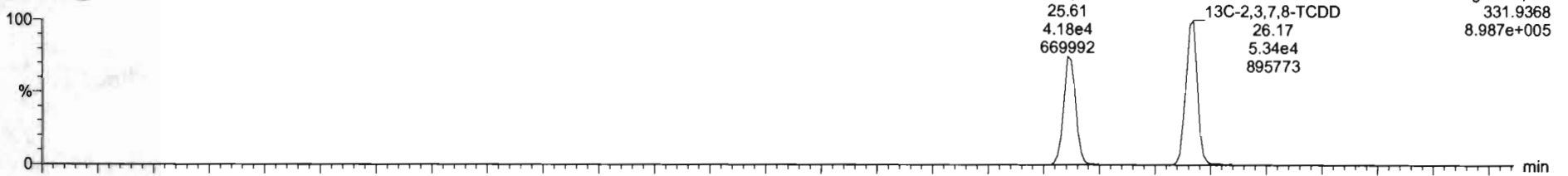
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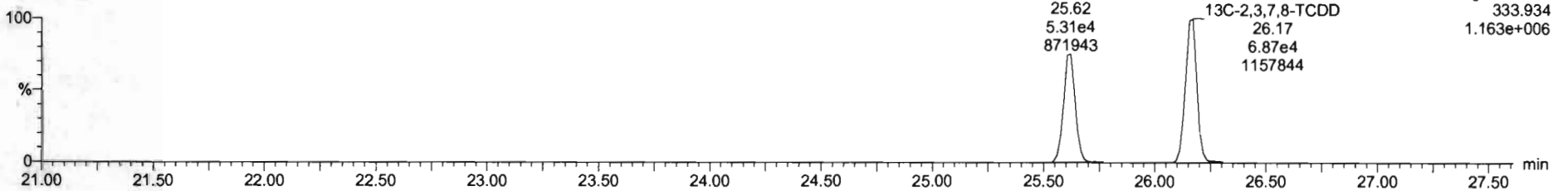
37Cl-2,3,7,8-TCDD
200526D2_6



13C-1,2,3,4-TCDD
200526D2_6



200526D2_6



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

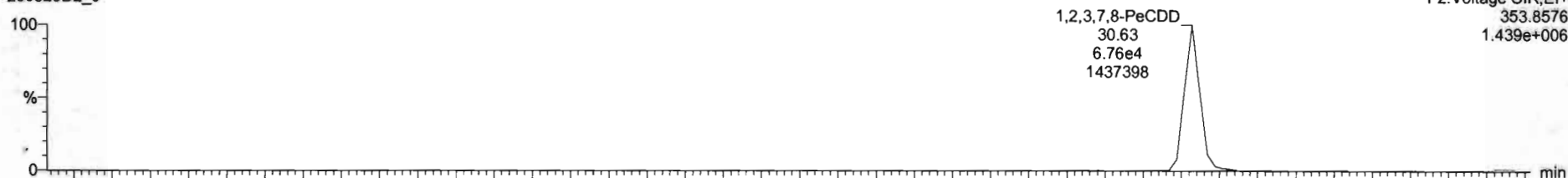
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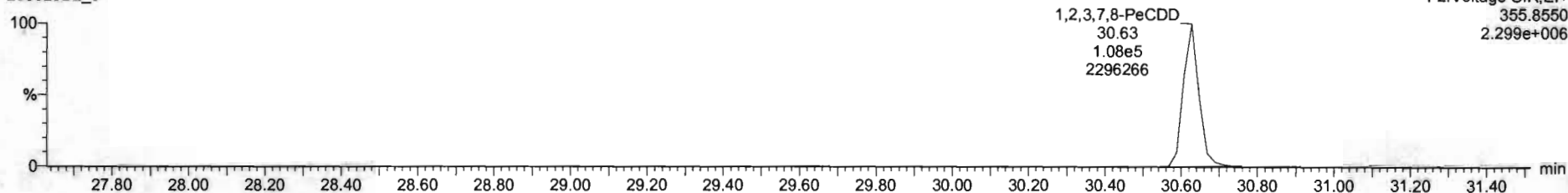
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1,2,3,7,8-PeCDD

200526D2_6

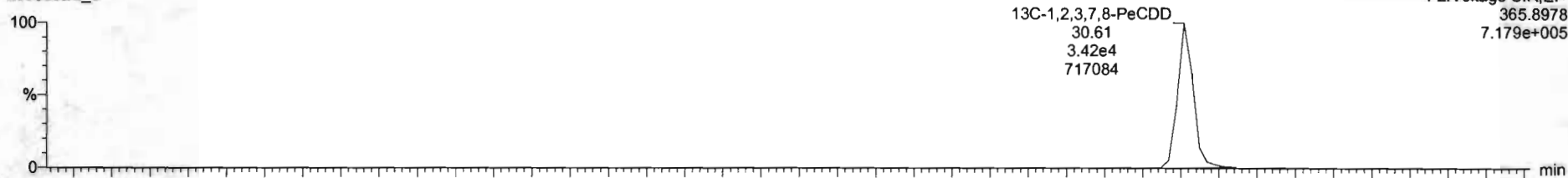


200526D2_6

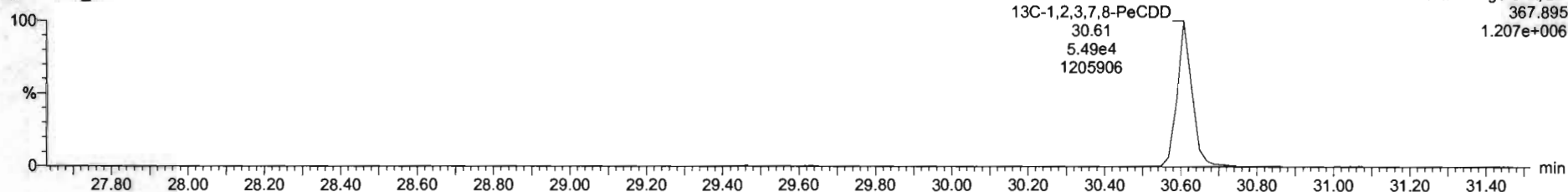


13C-1,2,3,7,8-PeCDD

200526D2_6



200526D2_6



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

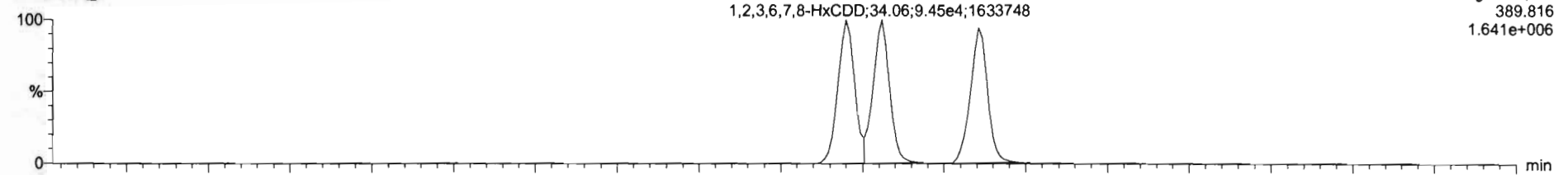
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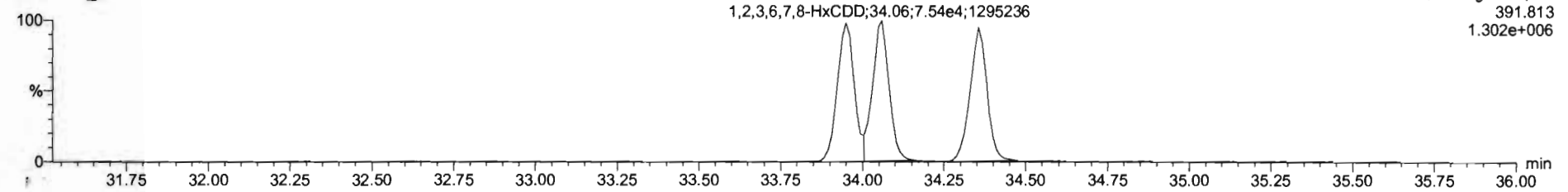
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1,2,3,4,7,8-HxCDD

200526D2_6

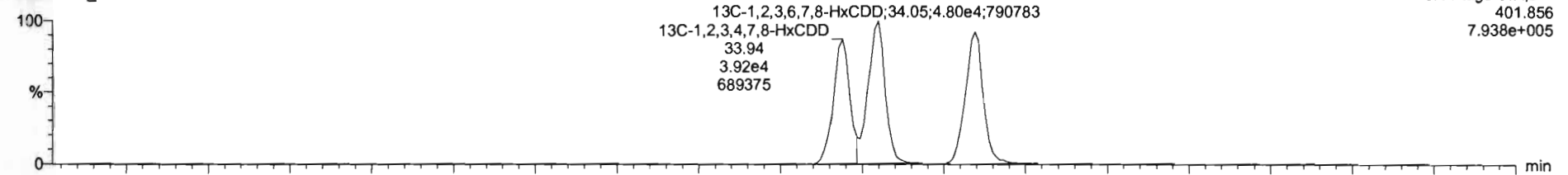


200526D2_6

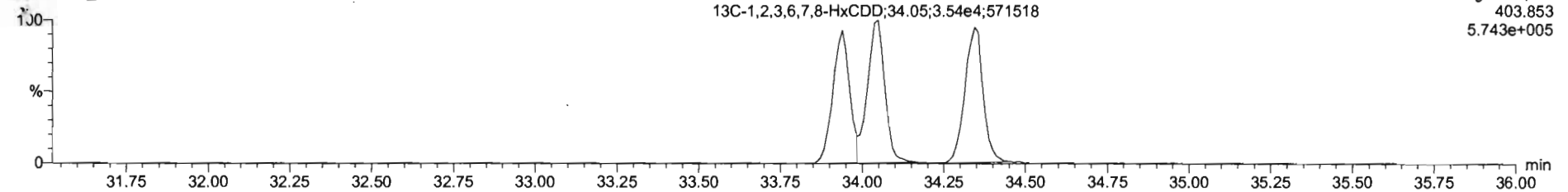


13C-1,2,3,4,7,8-HxCDD

200526D2_6



200526D2_6



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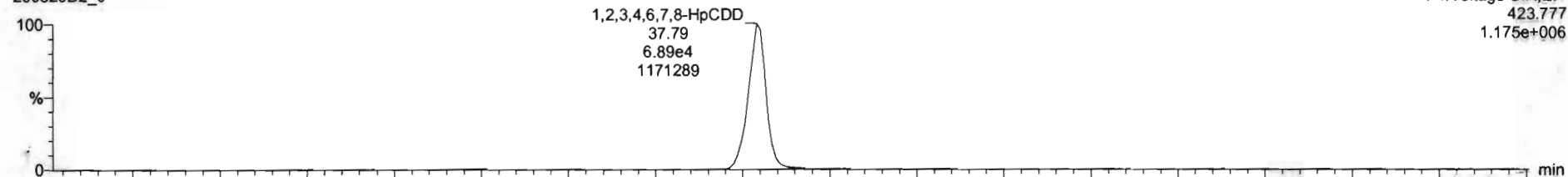
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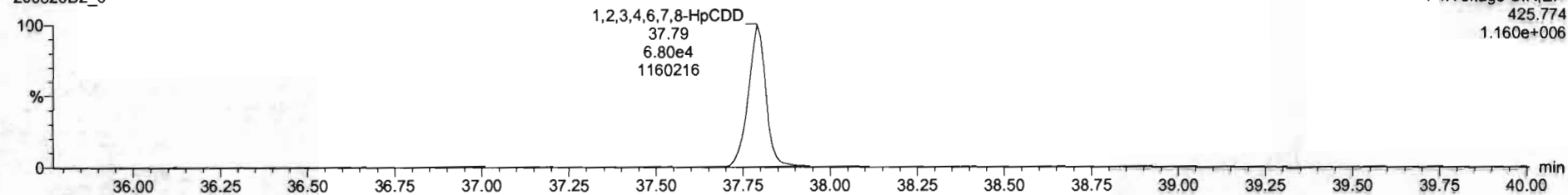
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1,2,3,4,6,7,8-HpCDD

200526D2_6

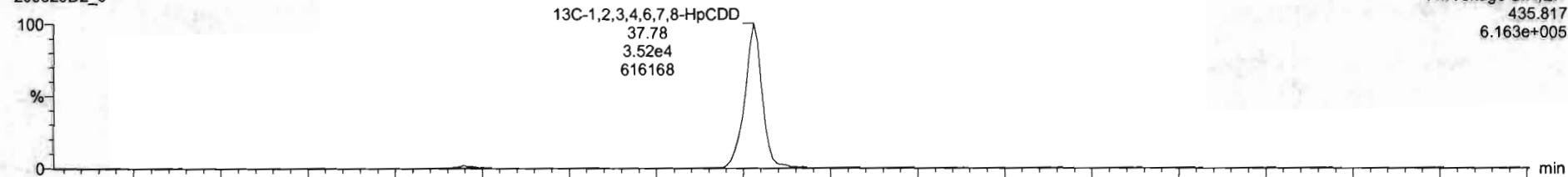


200526D2_6

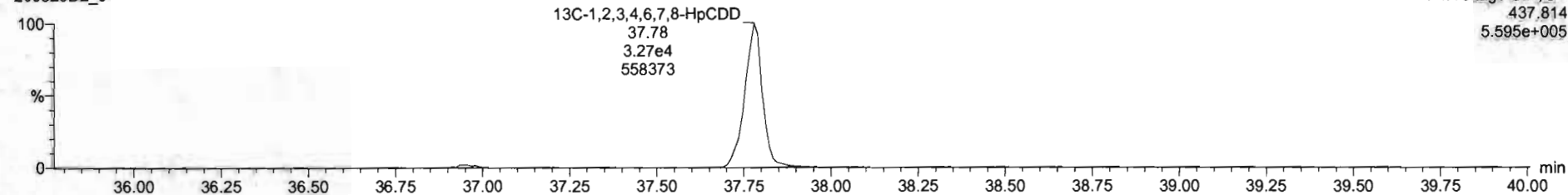


13C-1,2,3,4,6,7,8-HpCDD

200526D2_6



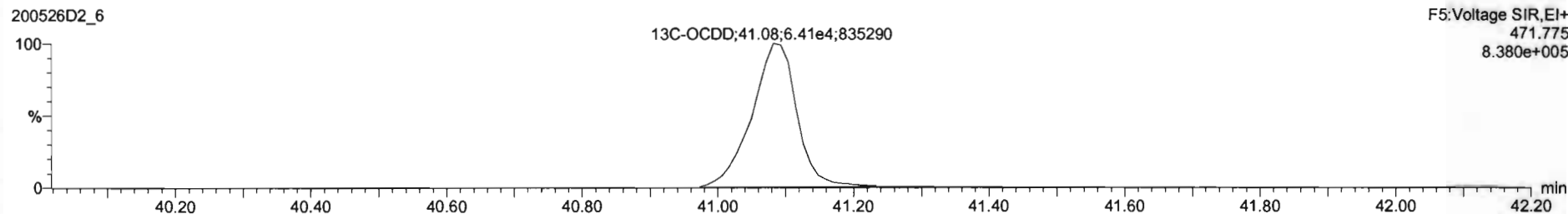
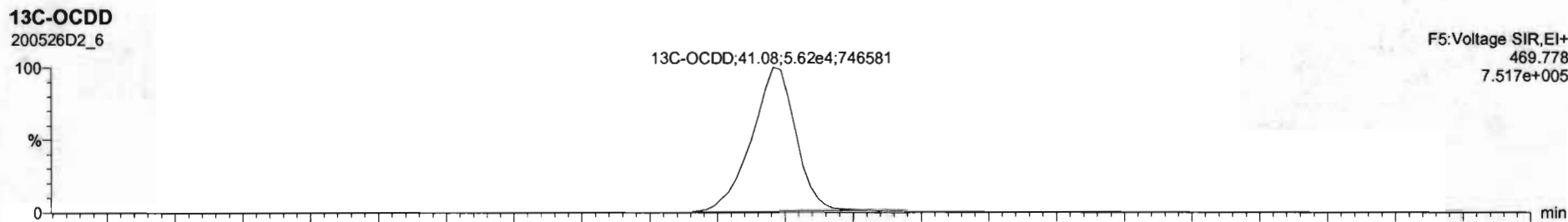
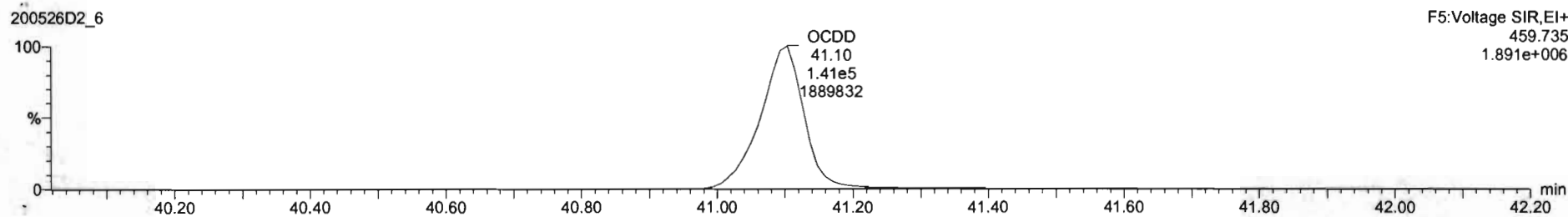
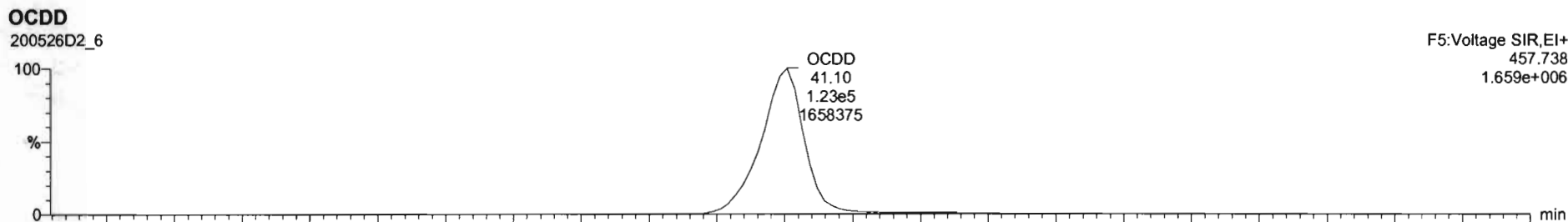
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Name: 200526D2_6, Date: 26-May-2020, Time: 23:58:05, ID: ST200526D2-5 1613 CS4 20E0708, Description: 1613 CS4 20E0708



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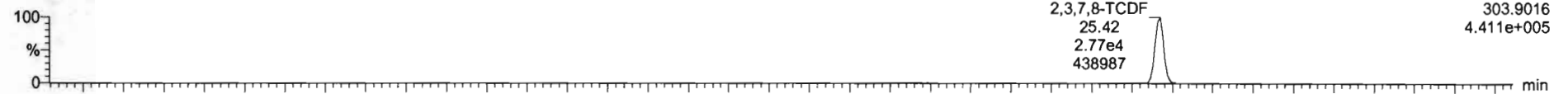
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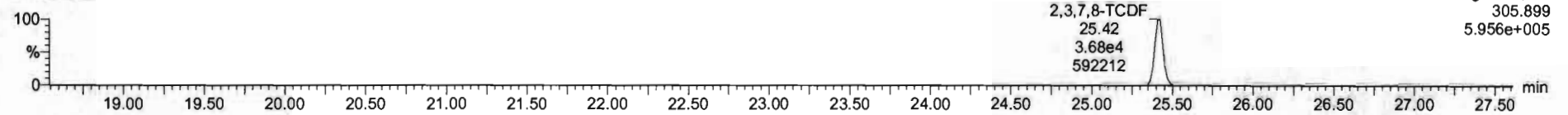
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2,3,7,8-TCDF

200526D2_6

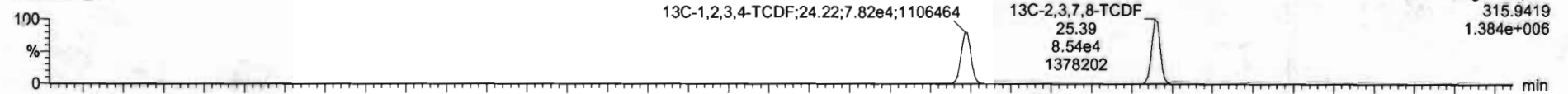


200526D2_6

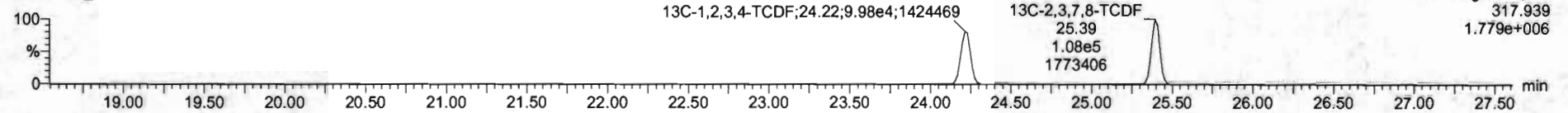


13C-2,3,7,8-TCDF

200526D2_6

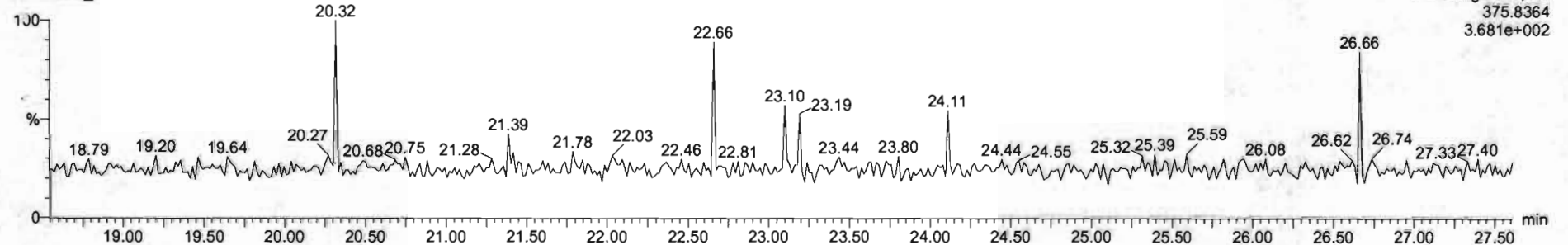


200526D2_6



DPE1

200526D2_6



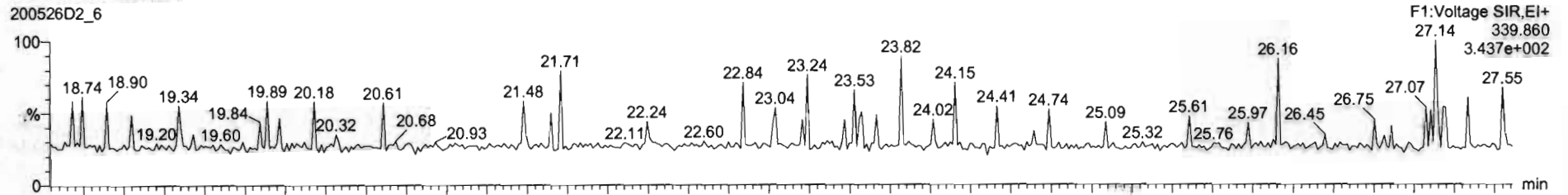
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

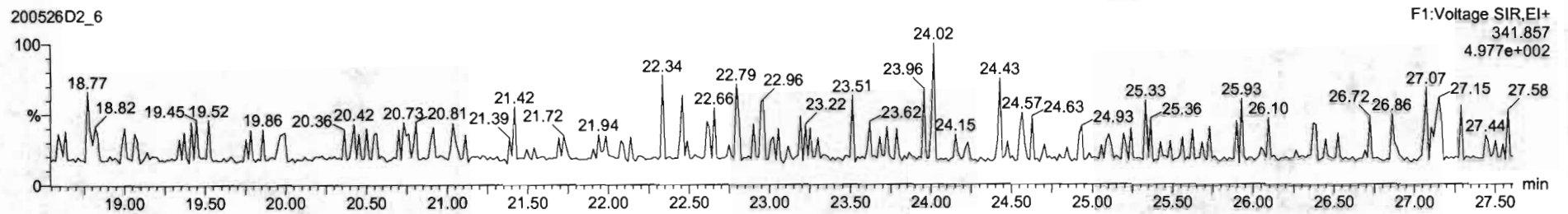
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1st Func. Penta-Furans

200526D2_6

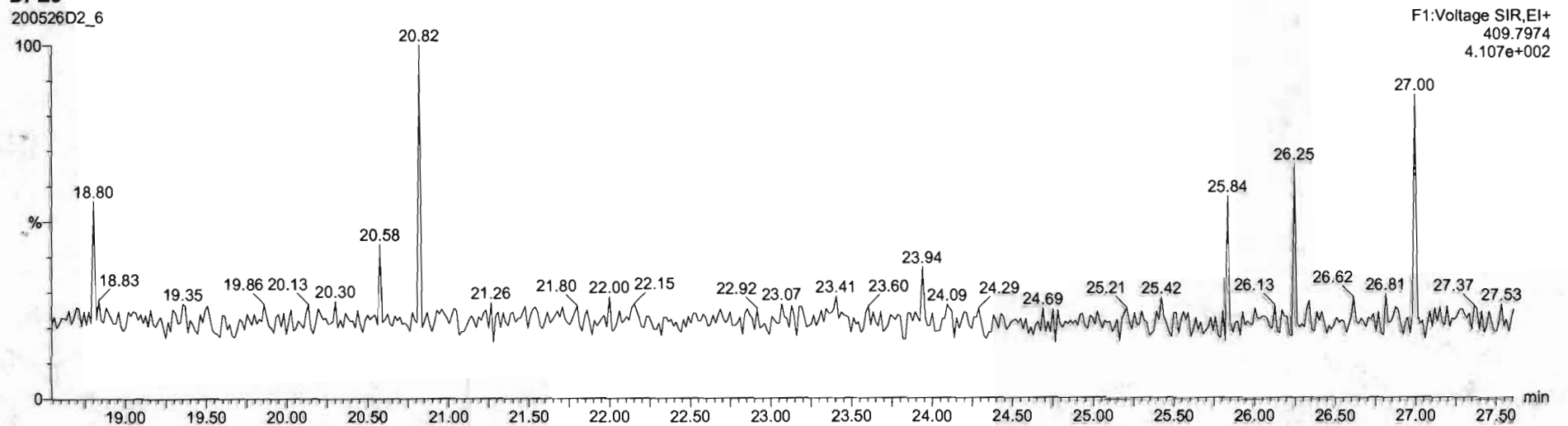


200526D2_6



DPE6

200526D2_6



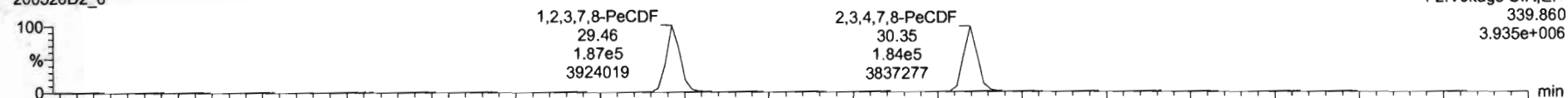
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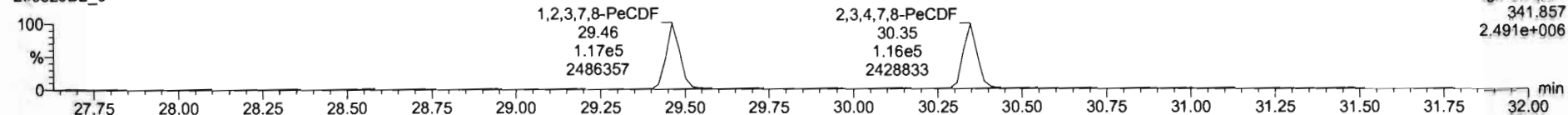
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1,2,3,7,8-PeCDF

200526D2_6

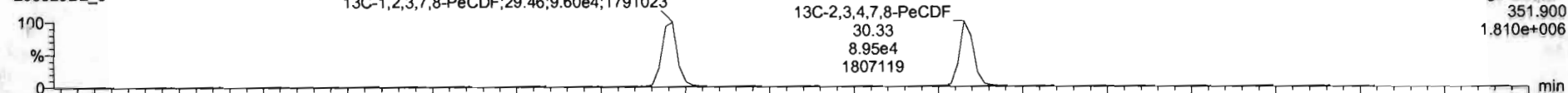


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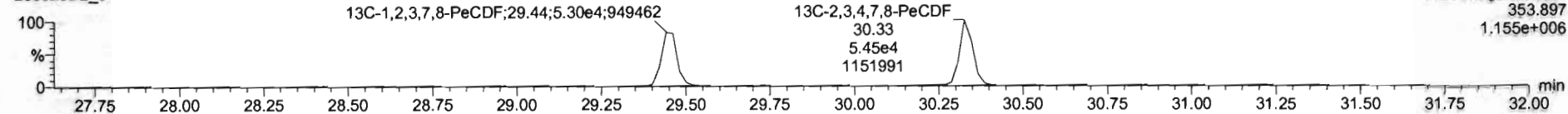


13C-1,2,3,7,8-PeCDF

200526D2_6

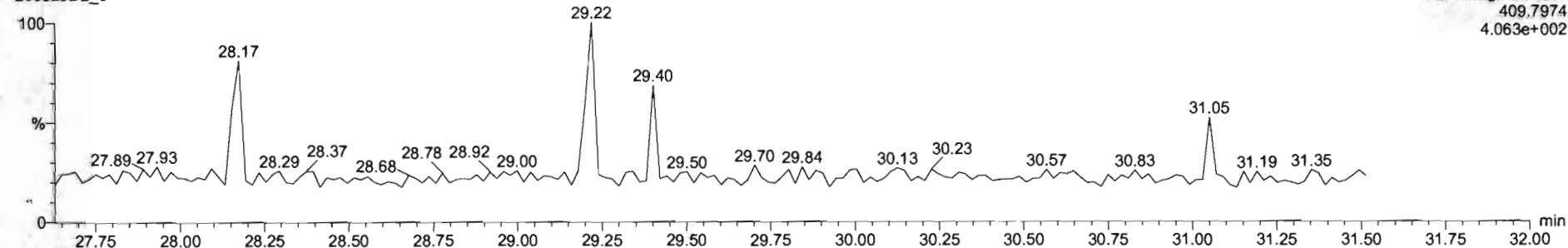


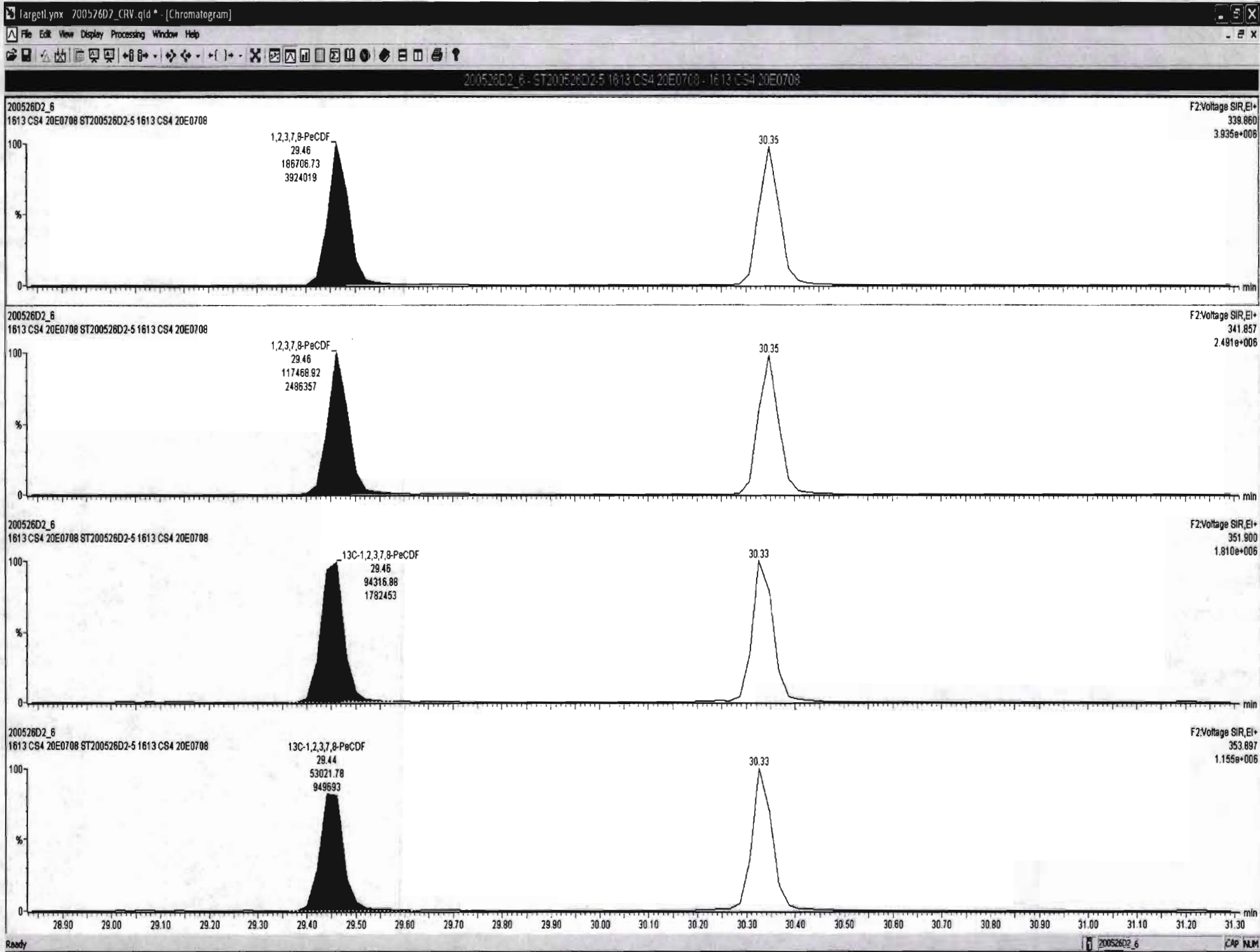
200526D2_6



DPE2

200526D2_6





Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

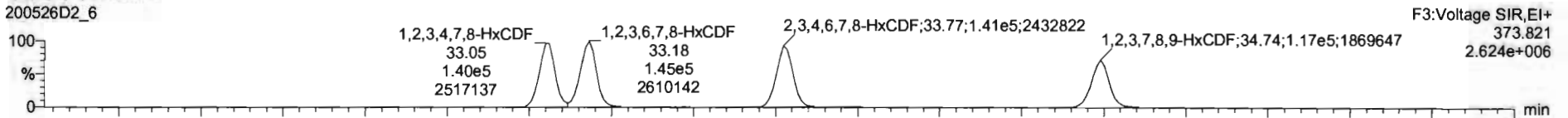
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

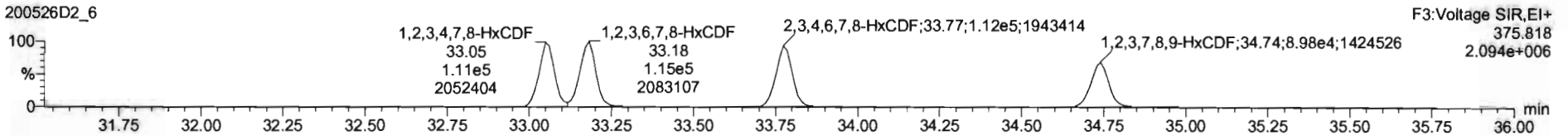
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1,2,3,4,7,8-HxCDF

200526D2_6

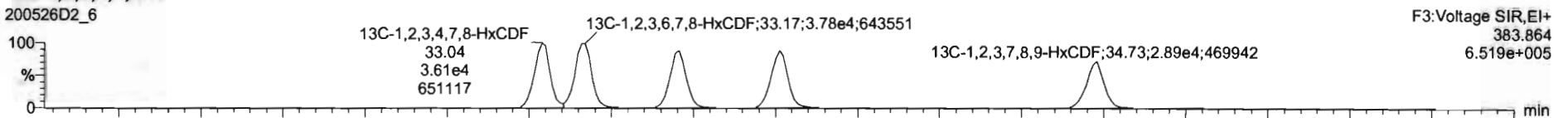


200526D2_6

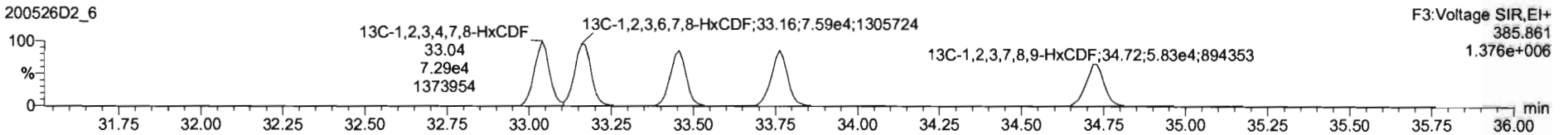


13C-1,2,3,4,7,8-HxCDF

200526D2_6

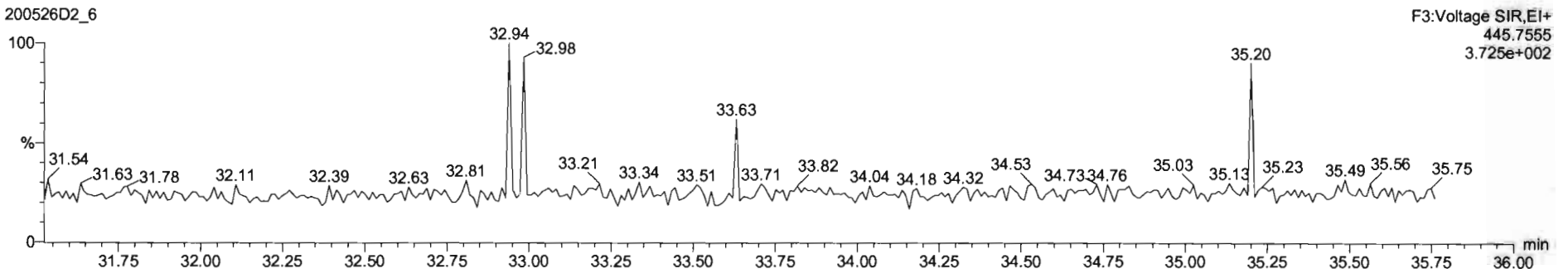


200526D2_6



DPE3

200526D2_6



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

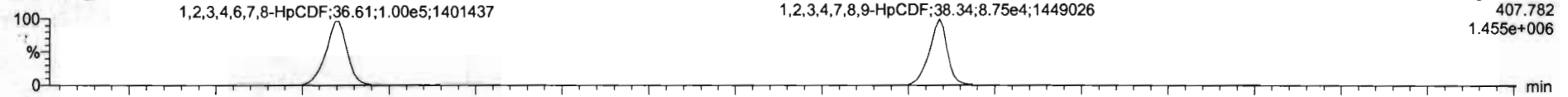
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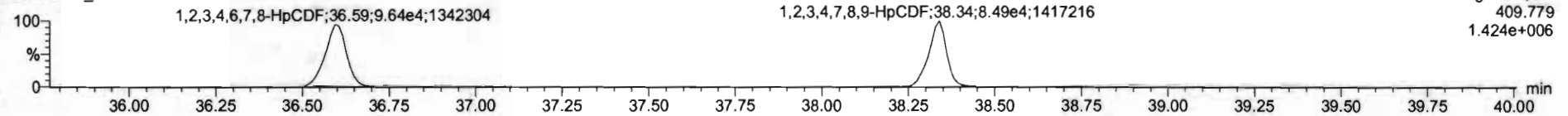
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1,2,3,4,6,7,8-HpCDF

200526D2_6

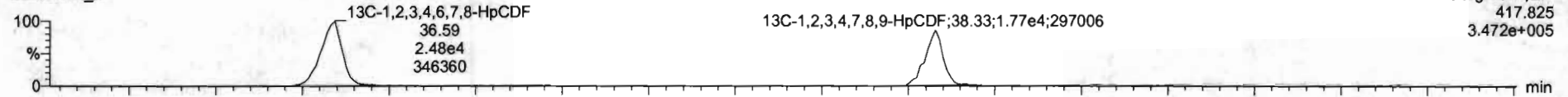


200526D2_6

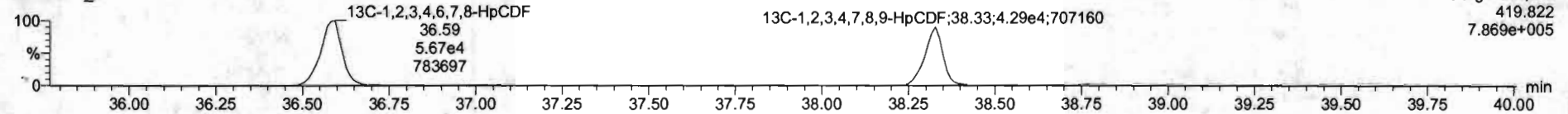


13C-1,2,3,4,6,7,8-HpCDF

200526D2_6

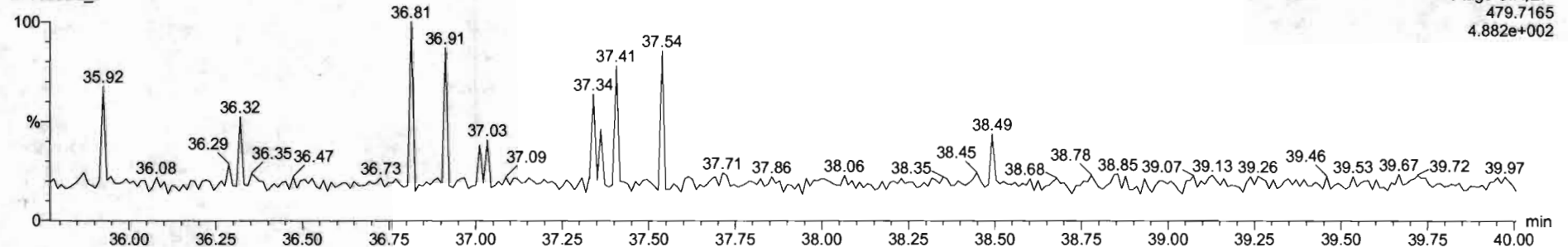


200526D2_6



DPE4

200526D2_6



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

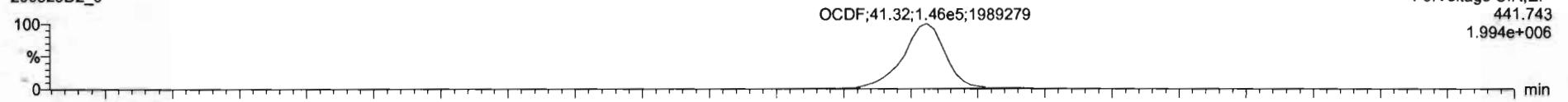
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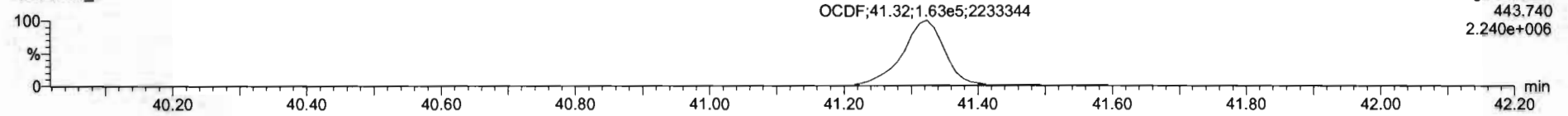
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OCDF

200526D2_6

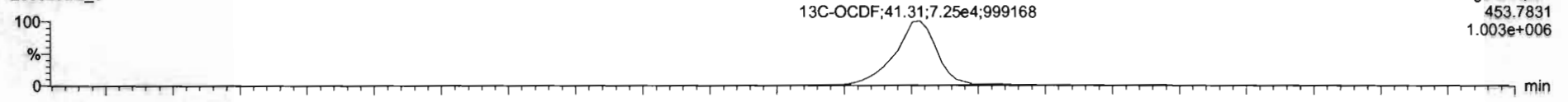


200526D2_6

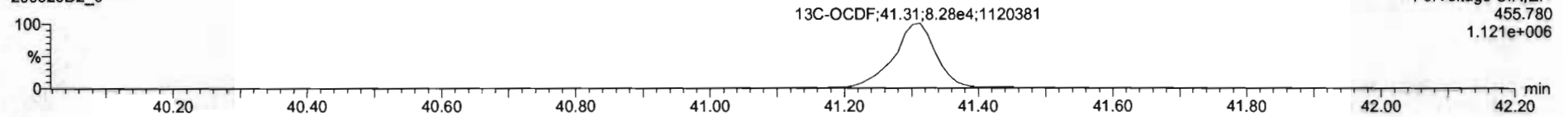


13C-OCDF

200526D2_6

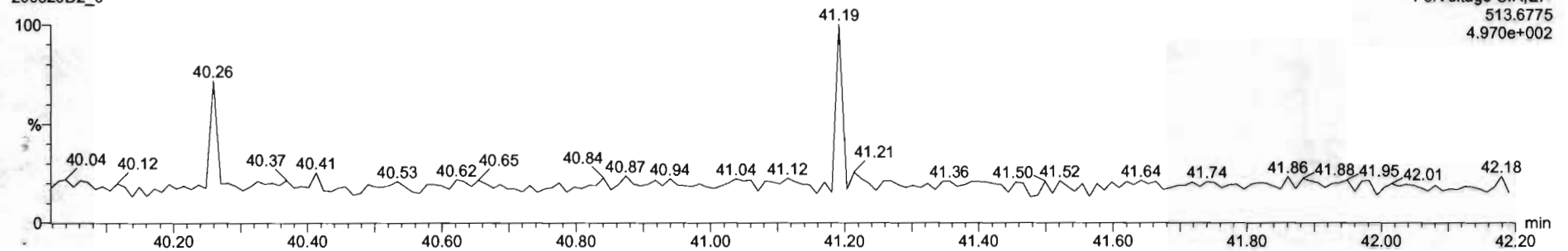


200526D2_6



DPE5

200526D2_6

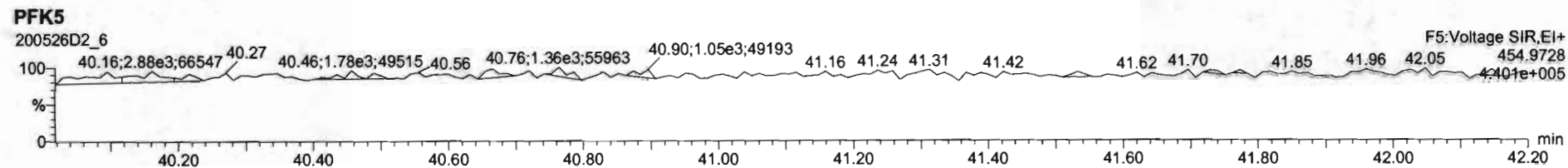
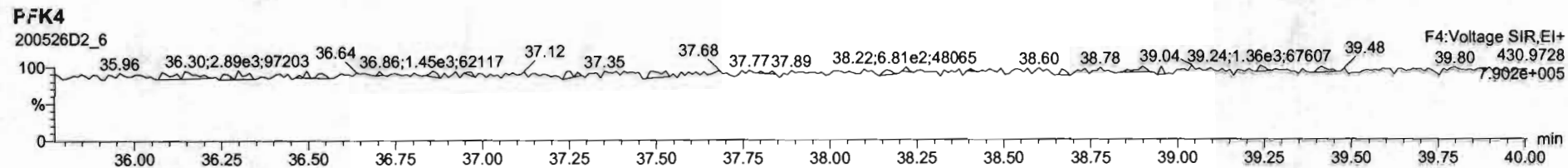
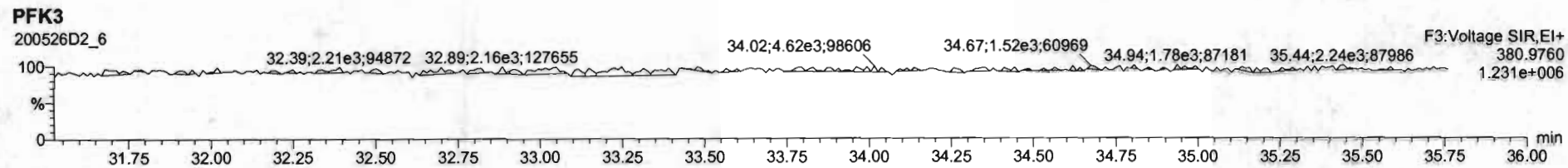
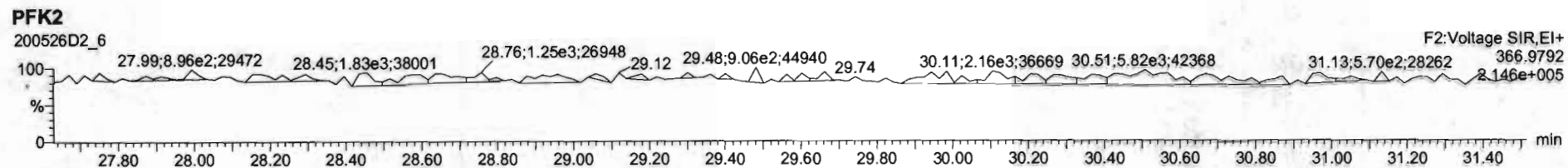
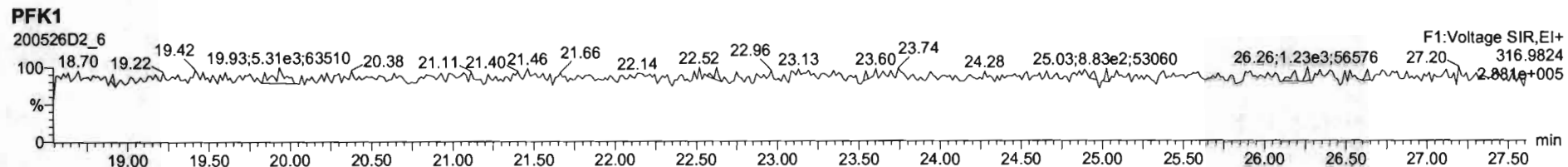


Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

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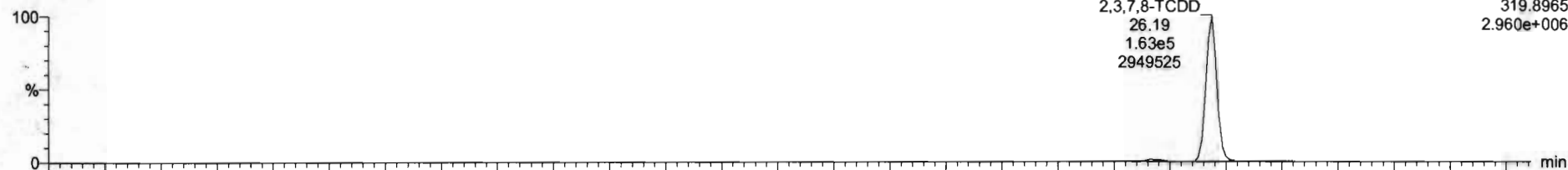
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

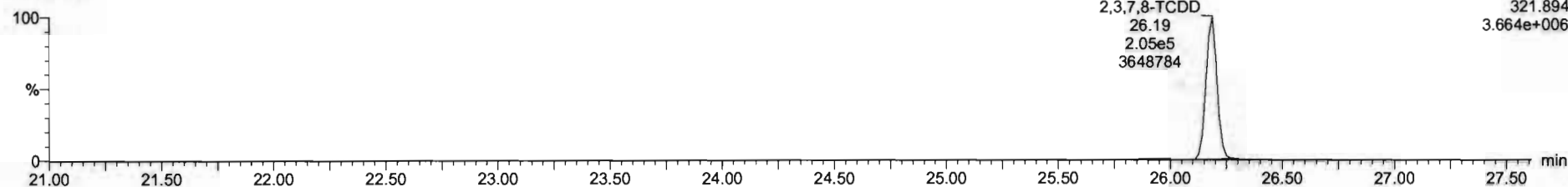
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2,3,7,8-TCDD

200526D2_7

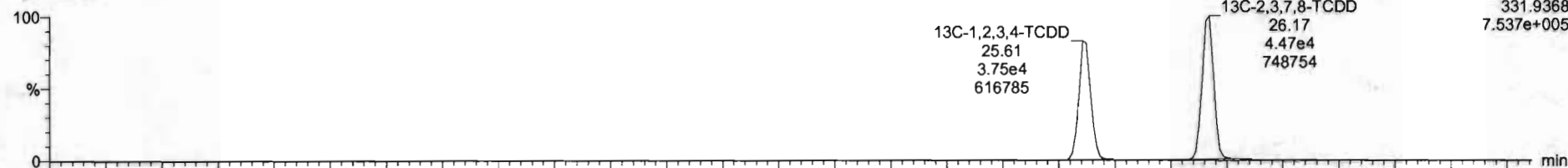


200526D2_7

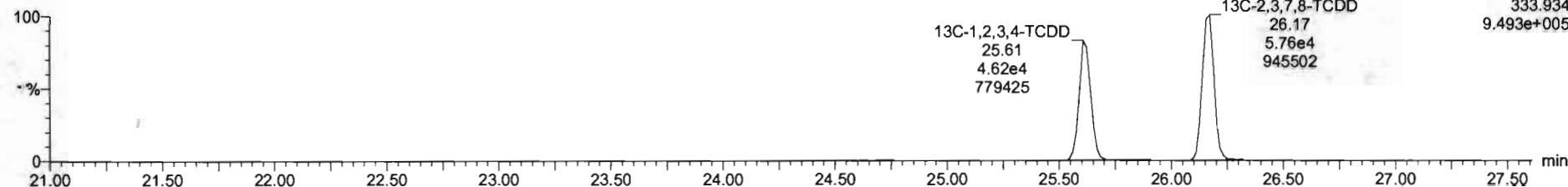


13C-2,3,7,8-TCDD

200526D2_7



200526D2_7



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

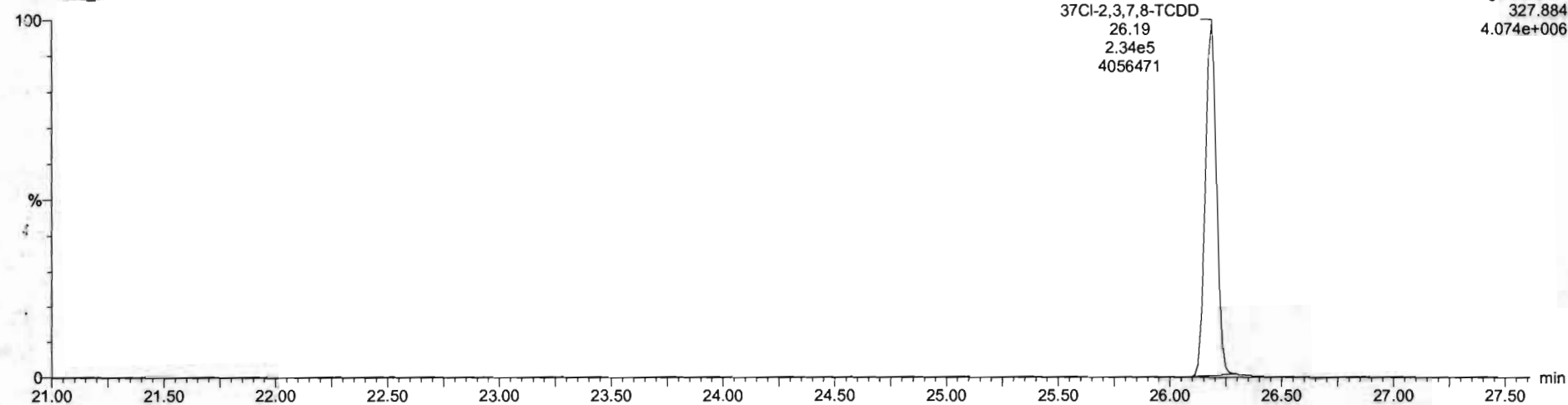
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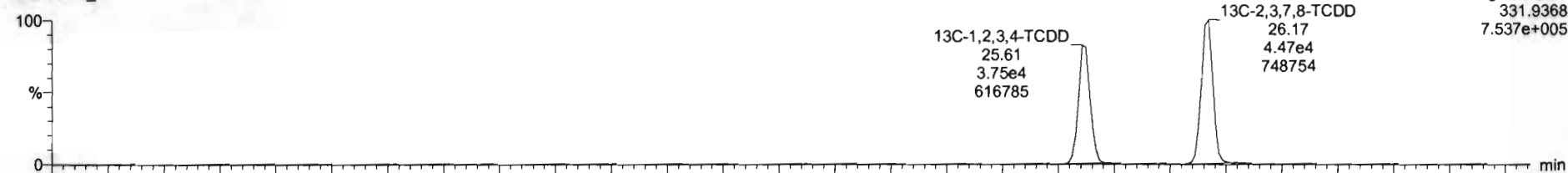
37Cl-2,3,7,8-TCDD

200526D2_7

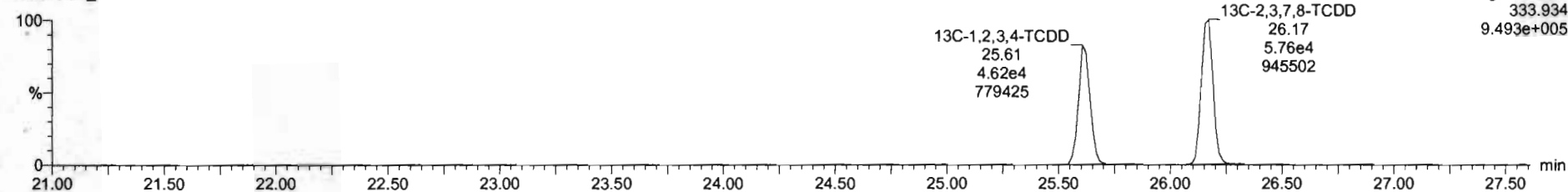


13C-1,2,3,4-TCDD

200526D2_7



200526D2_7



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

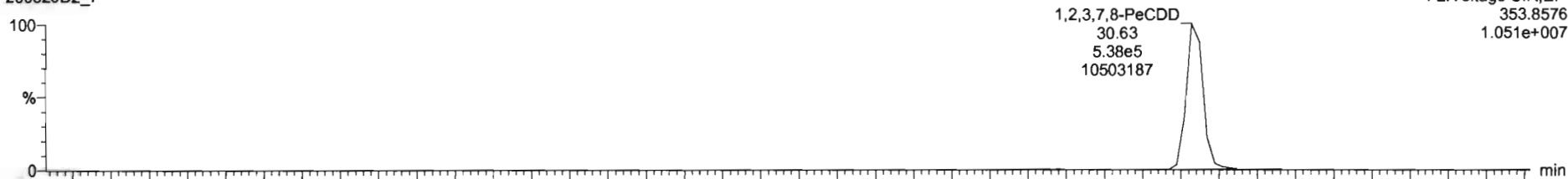
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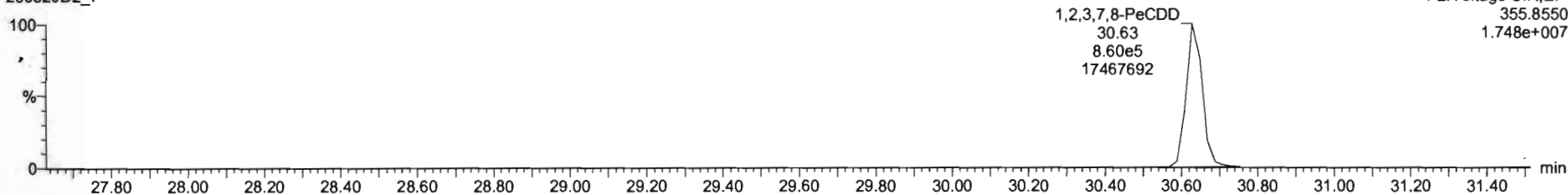
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1,2,3,7,8-PeCDD

200526D2_7

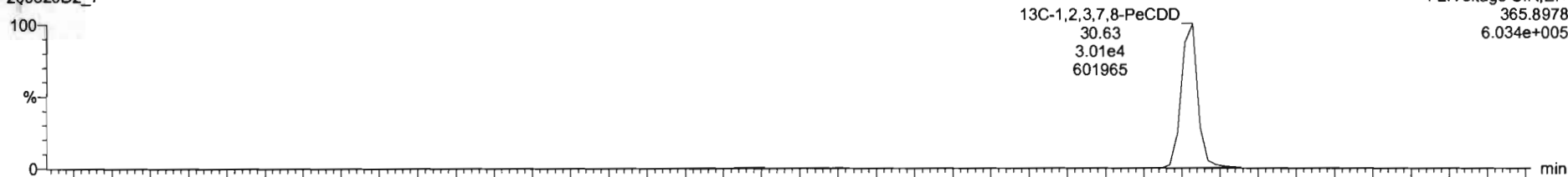


200526D2_7

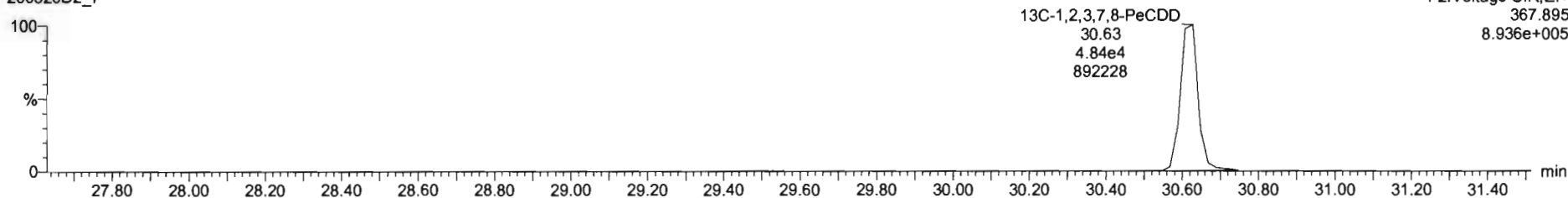


13C-1,2,3,7,8-PeCDD

200526D2_7



200526D2_7



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

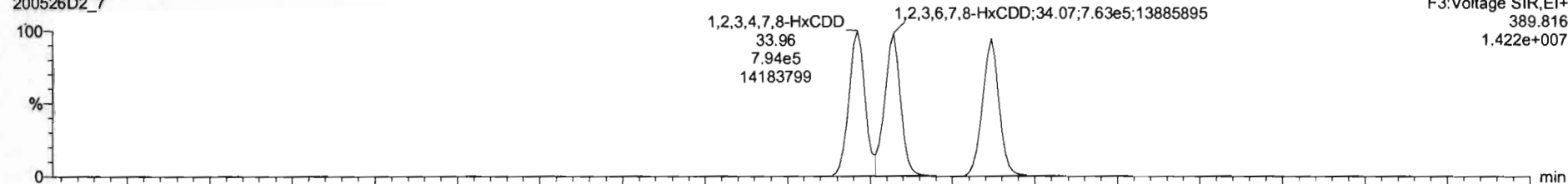
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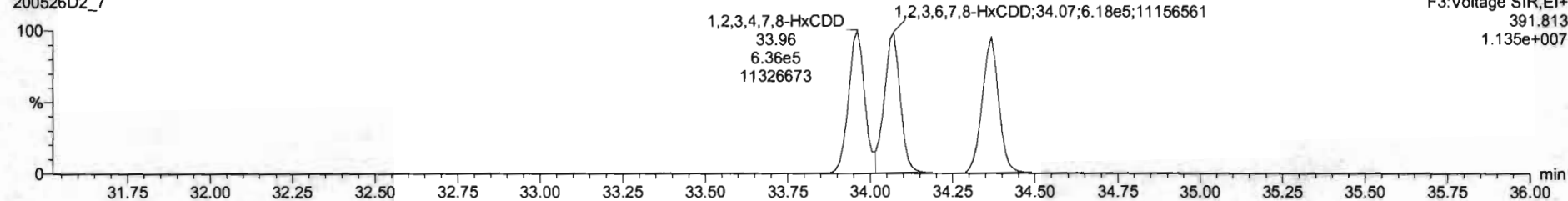
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1,2,3,4,7,8-HxCDD

200526D2_7

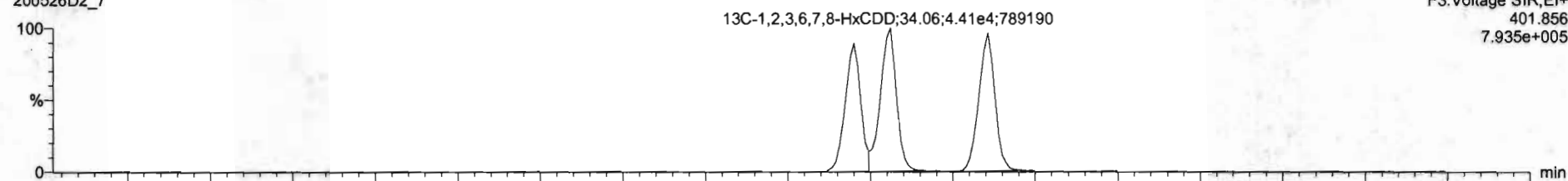


200526D2_7

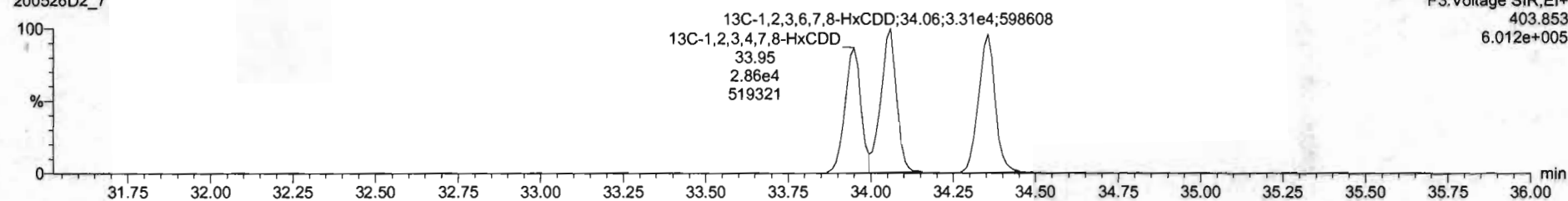


13C-1,2,3,4,7,8-HxCDD

200526D2_7



200526D2_7



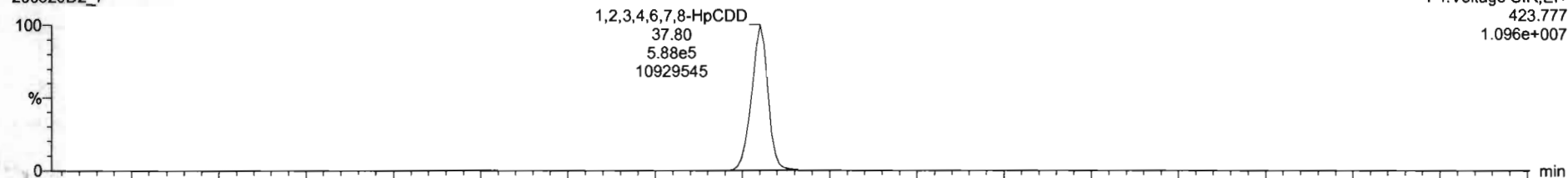
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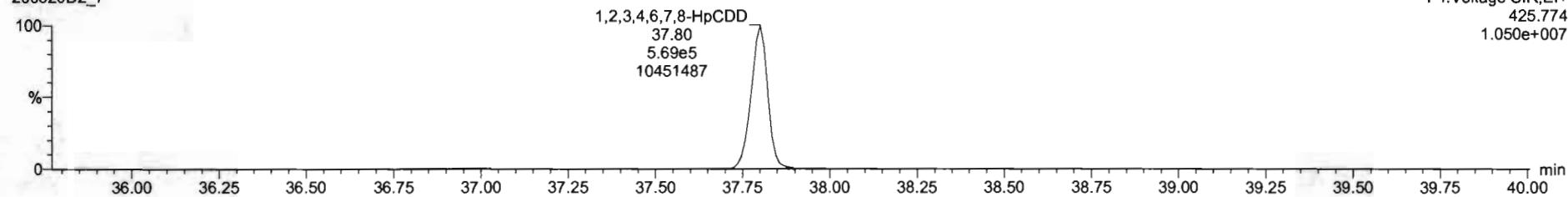
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1,2,3,4,6,7,8-HpCDD

200526D2_7

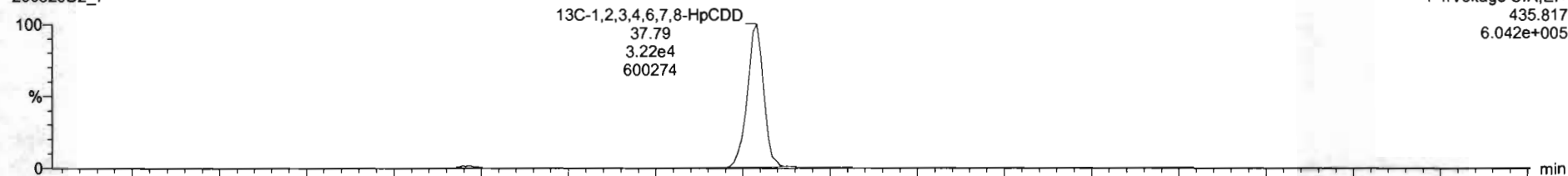


200526D2_7

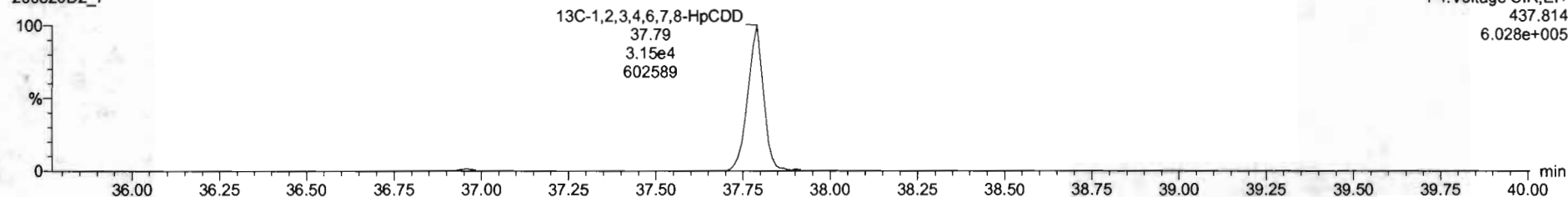


13C-1,2,3,4,6,7,8-HpCDD

200526D2_7



200526D2_7



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

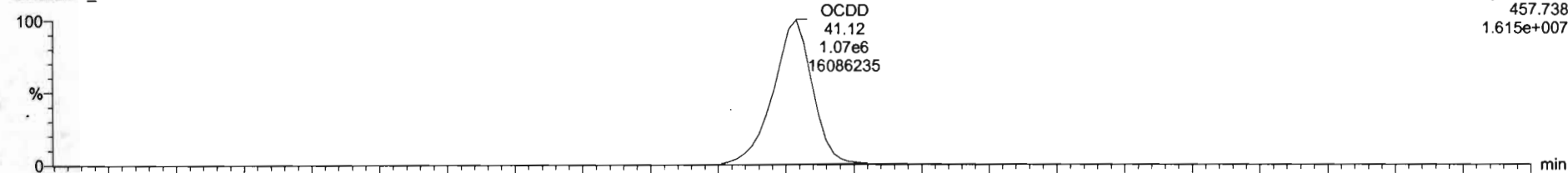
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

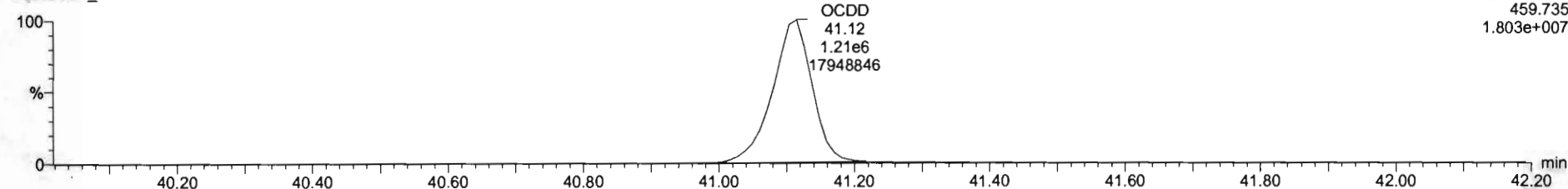
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OCDD

200526D2_7

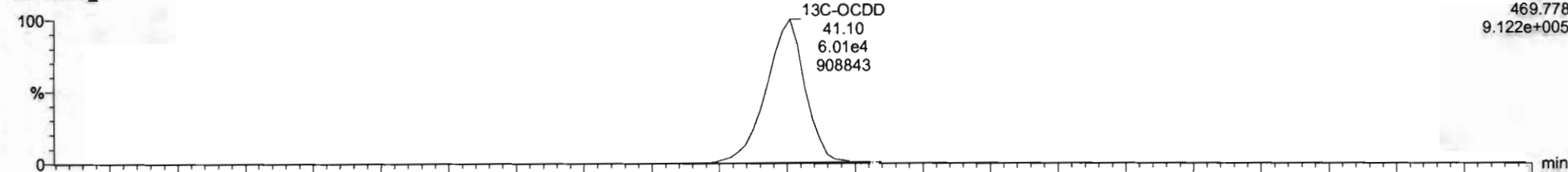


200526D2_7

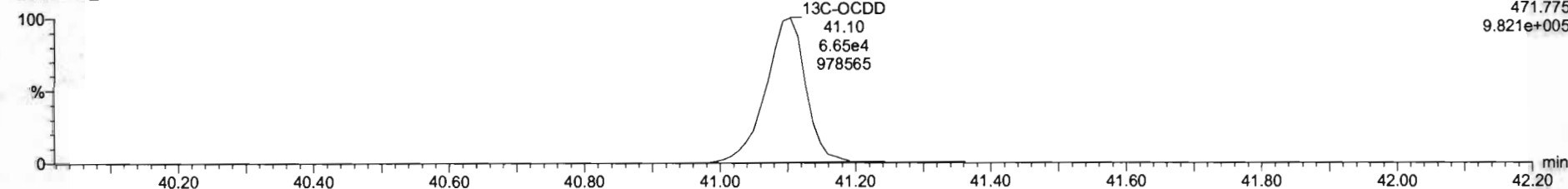


13C-OCDD

200526D2_7



200526D2_7



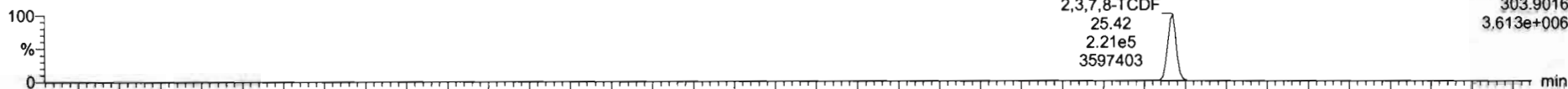
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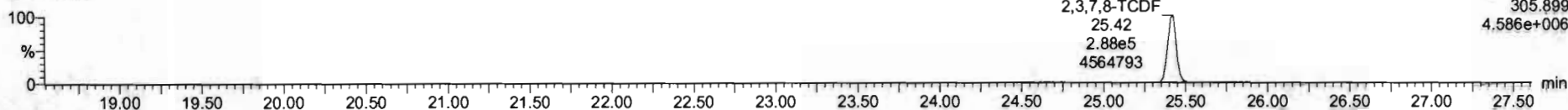
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2,3,7,8-TCDF

200526D2_7



200526D2_7

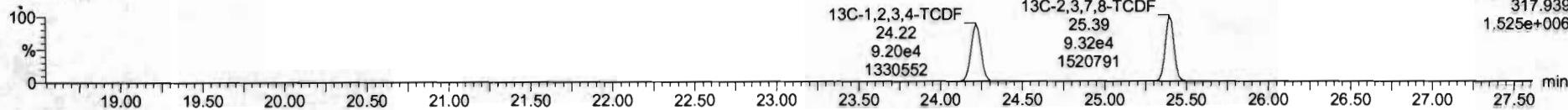


13C-2,3,7,8-TCDF

200526D2_7

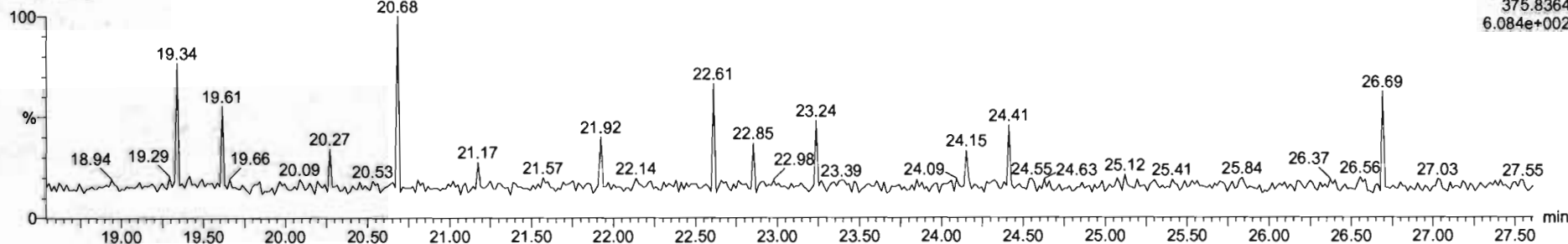


200526D2_7



DPE1

200526D2_7



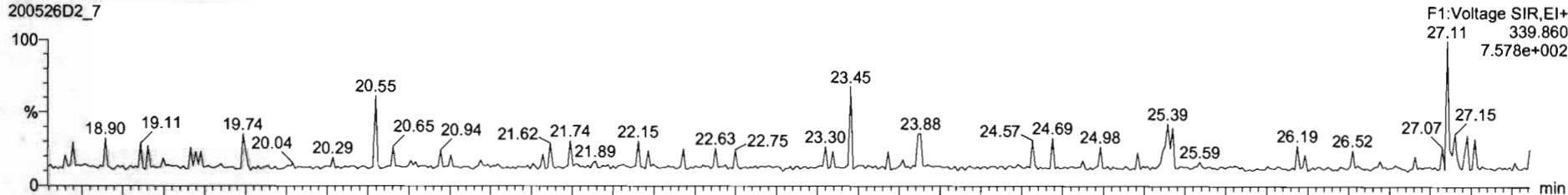
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Last Altered: Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time
Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

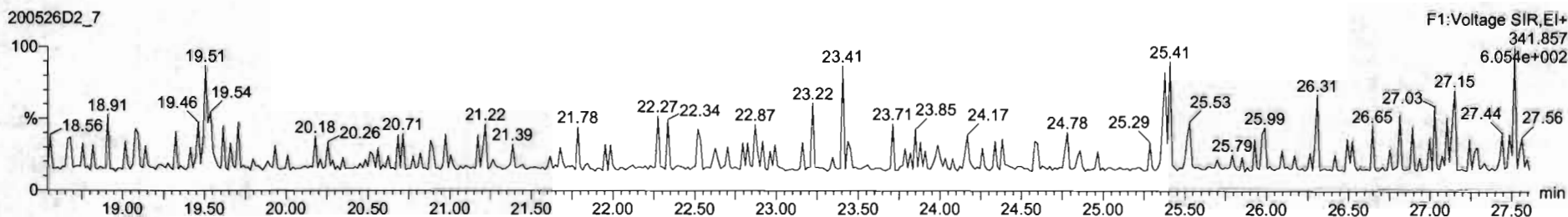
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200526D2_7

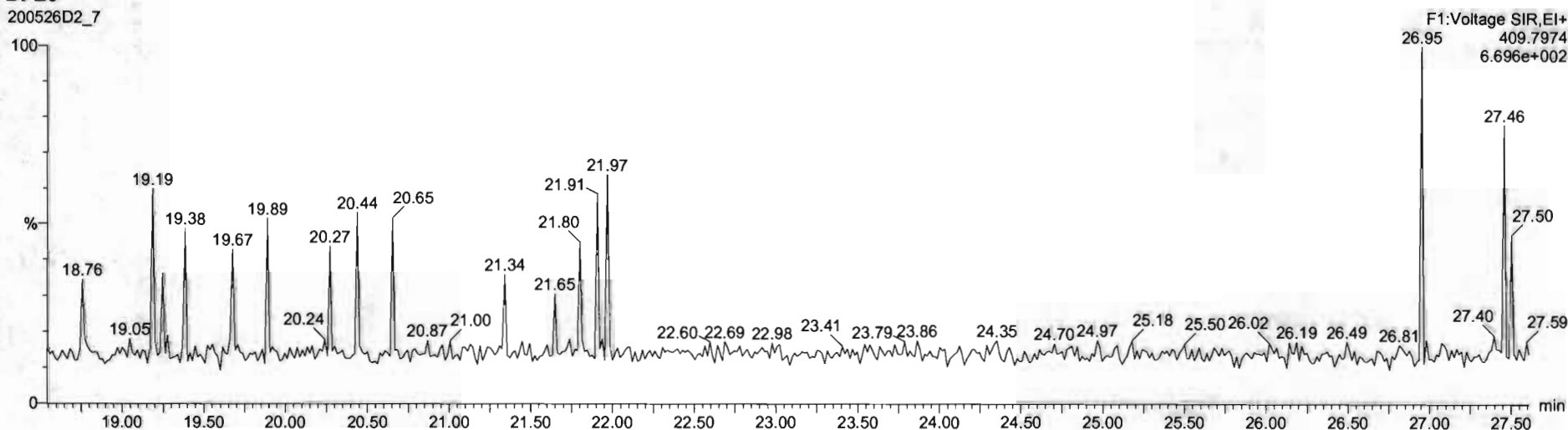


200526D2_7



DPE6

200526D2_7



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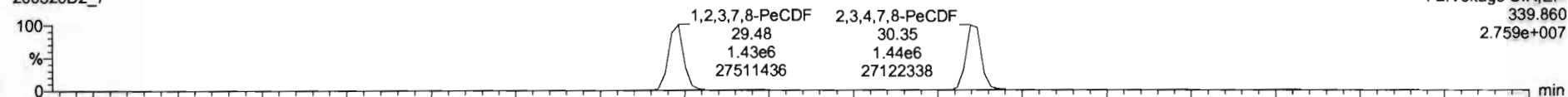
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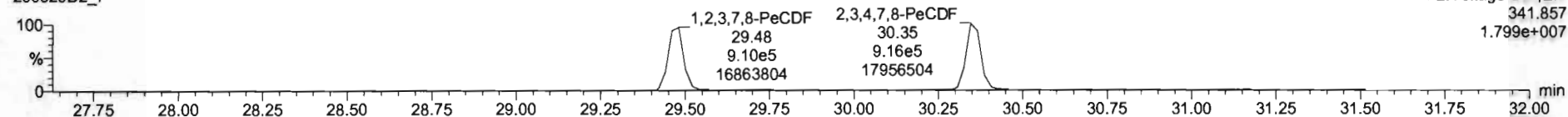
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1,2,3,7,8-PeCDF

200526D2_7

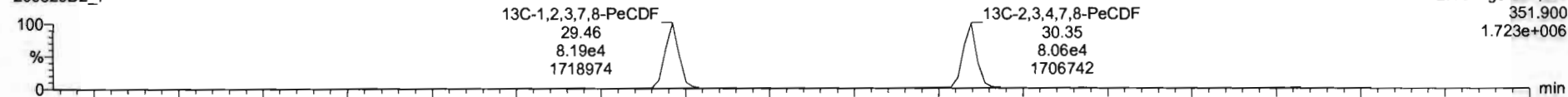


200526D2_7

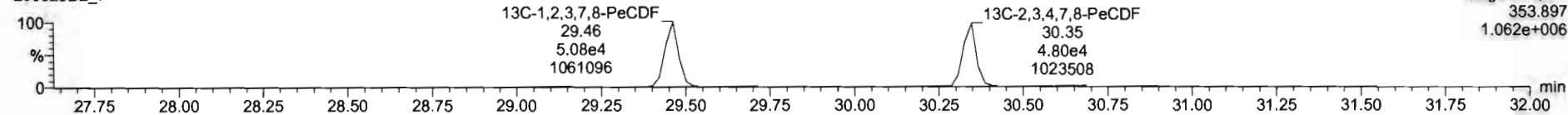


13C-1,2,3,7,8-PeCDF

200526D2_7

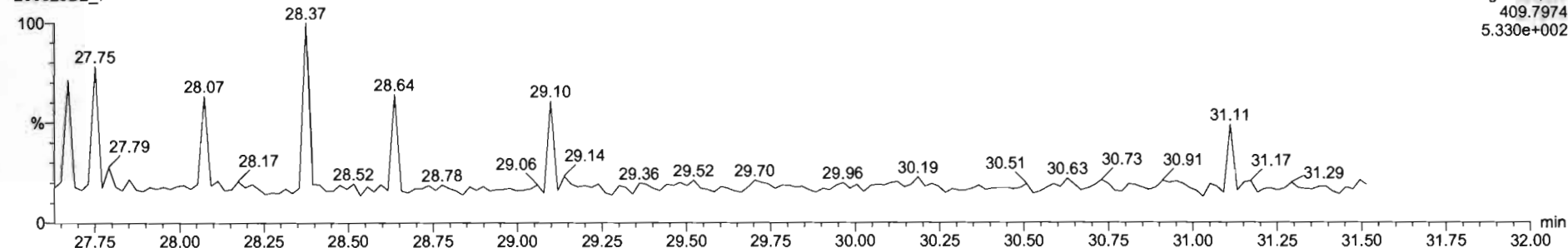


200526D2_7



DPE2

200526D2_7

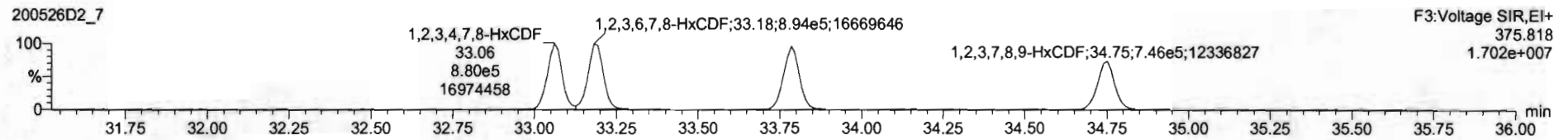
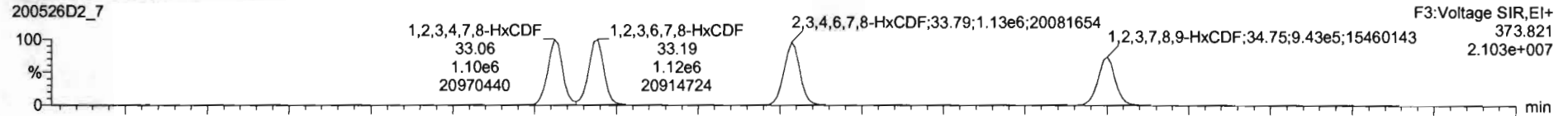


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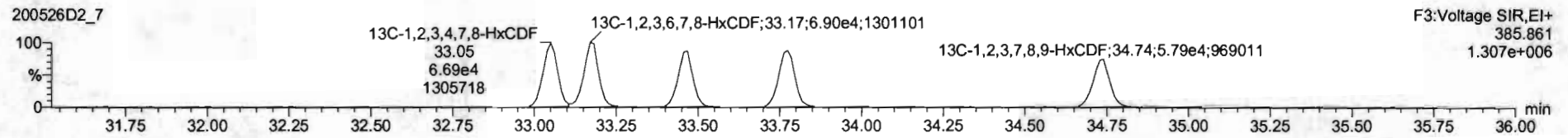
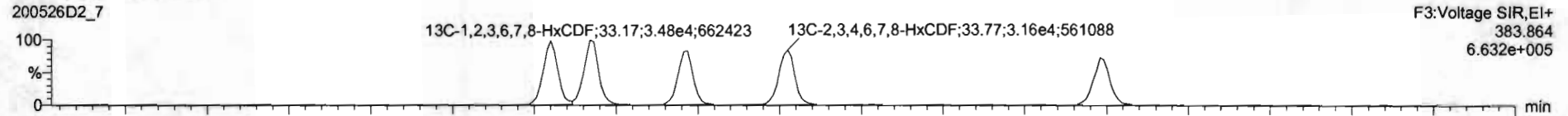
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

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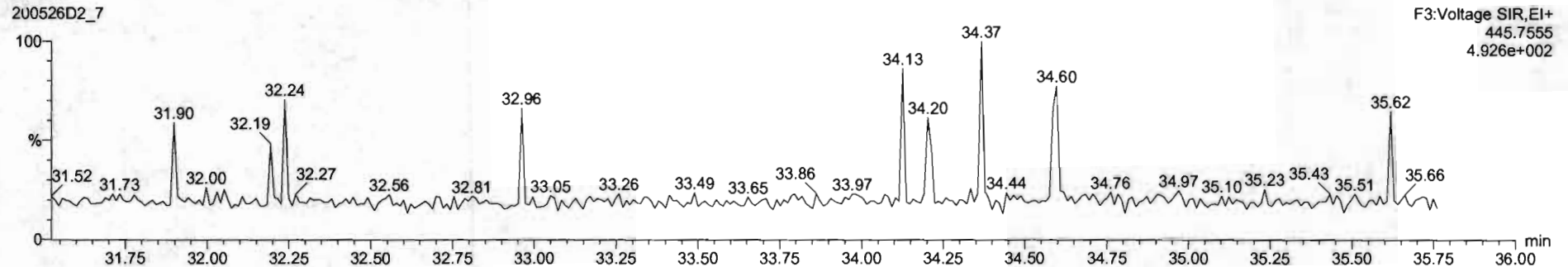
1,2,3,4,7,8-HxCDF



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



DPE3



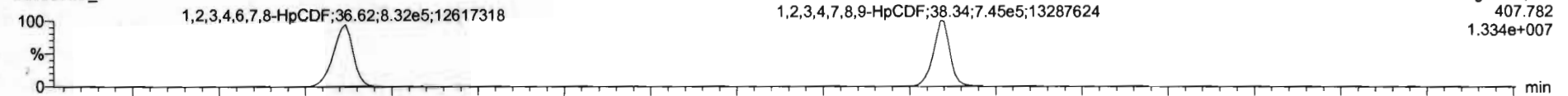
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Last Altered: Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time
Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

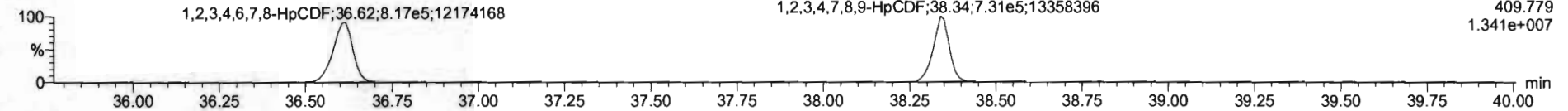
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1,2,3,4,6,7,8-HpCDF

200526D2_7

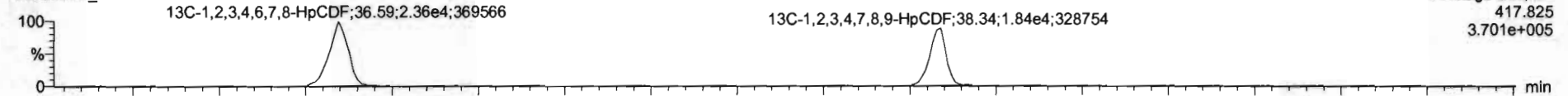


200526D2_7

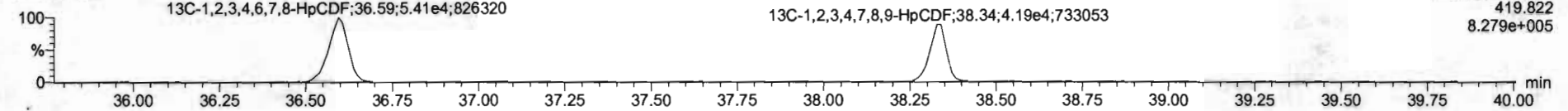


13C-1,2,3,4,6,7,8-HpCDF

200526D2_7

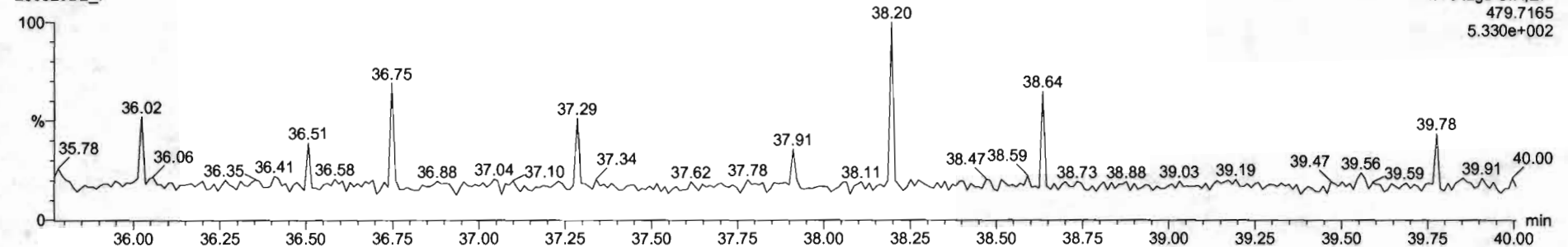


200526D2_7



DPE4

200526D2_7



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

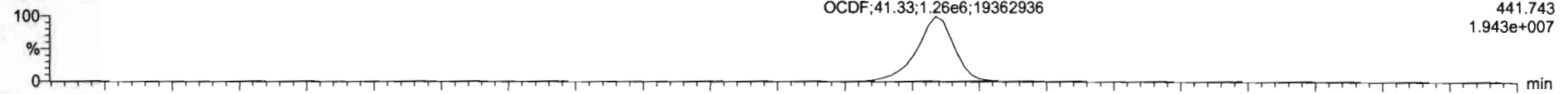
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Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

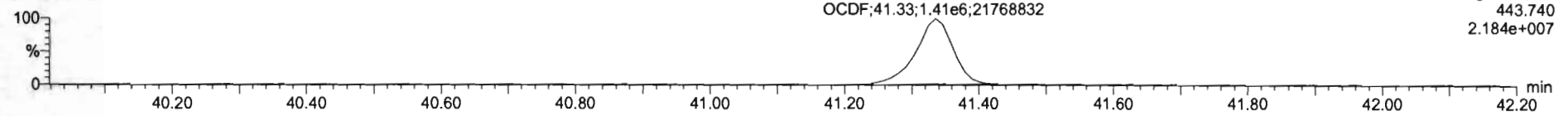
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OCDF

200526D2_7

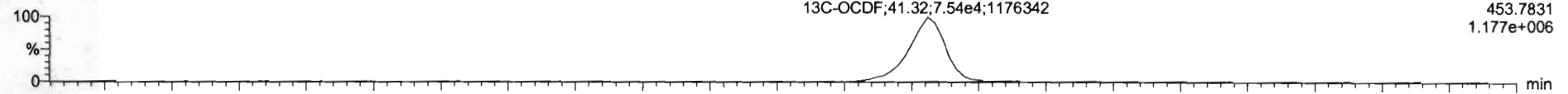


200526D2_7

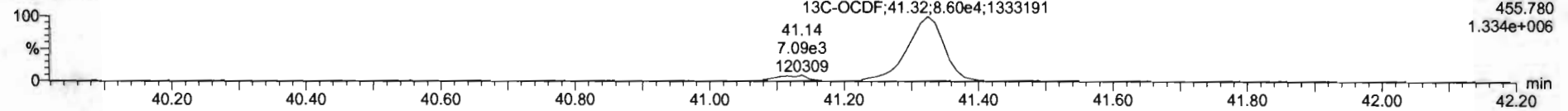


13C-OCDF

200526D2_7

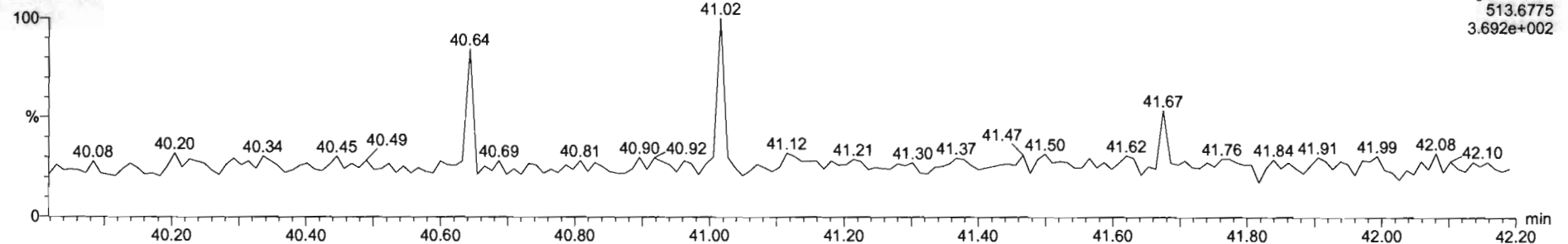


200526D2_7



DPE5

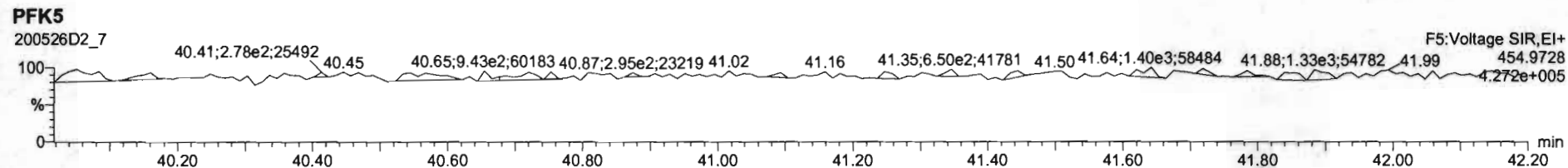
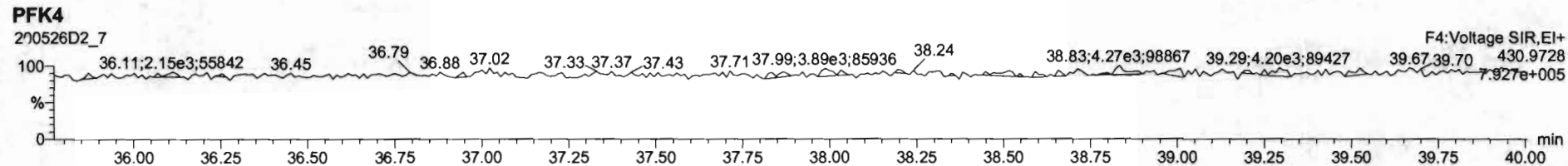
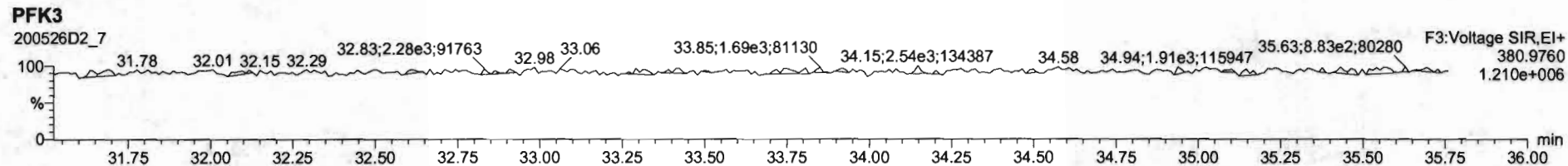
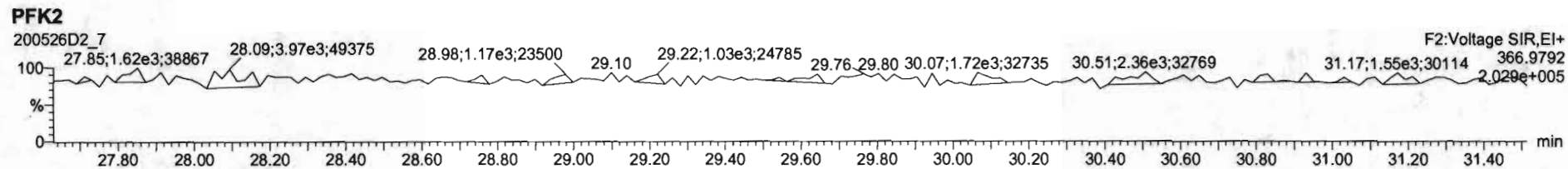
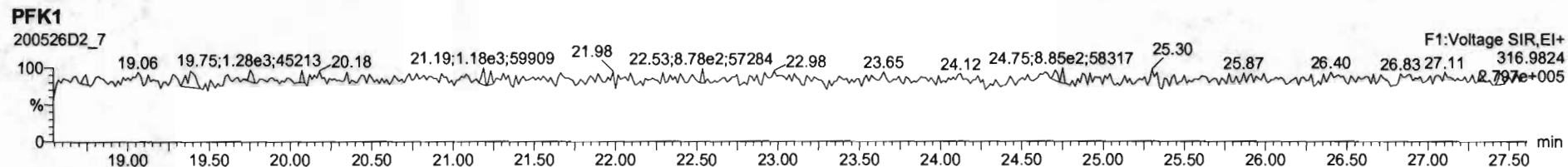
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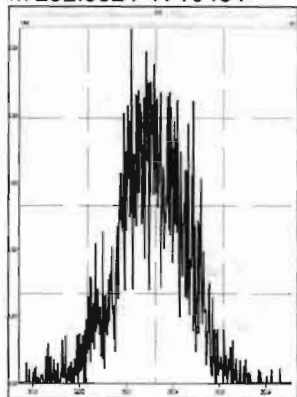
Last Altered: Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time
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Name: 200526D2_7, Date: 27-May-2020, Time: 00:43:15, ID: ST200526D2-6 1613 CS5 20E0709, Description: 1613 CS5 20E0709

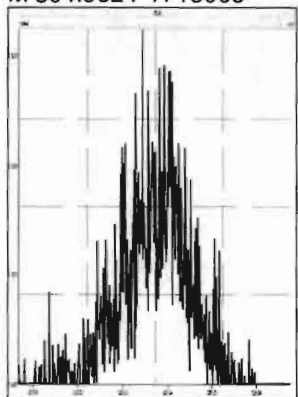


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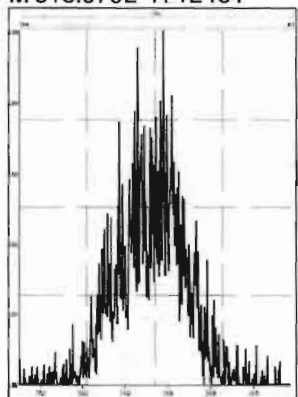
M 292.9824 R 10454



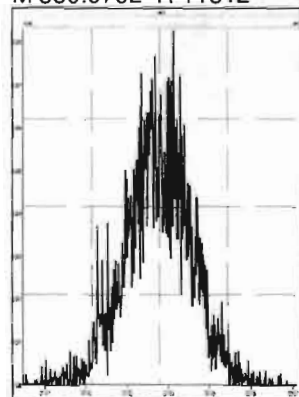
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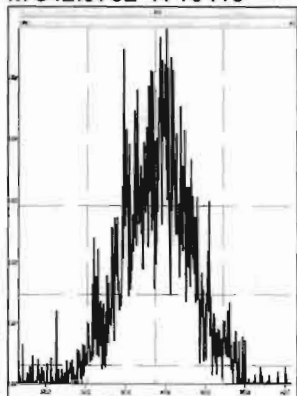
M 318.9792 R 12481



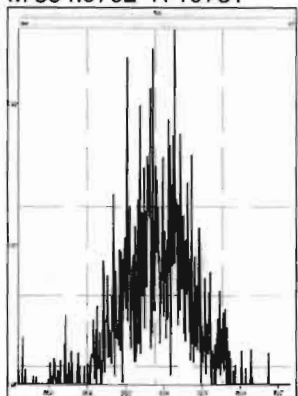
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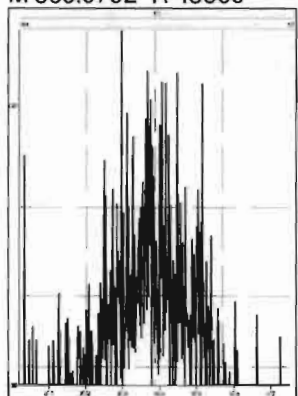
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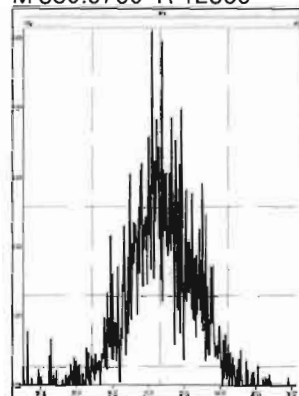
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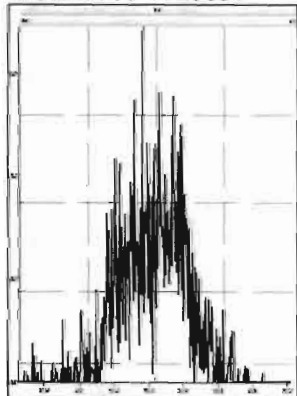
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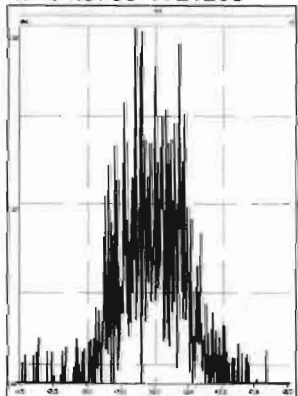
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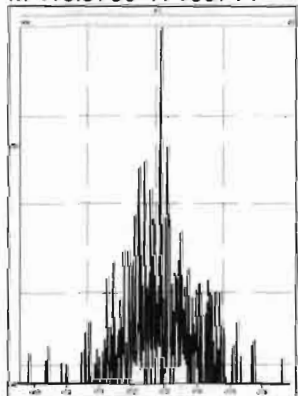
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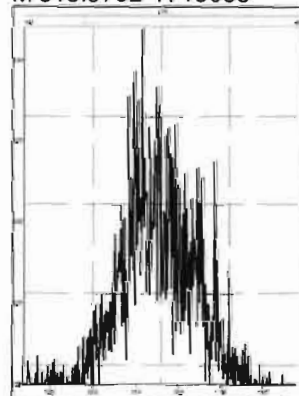
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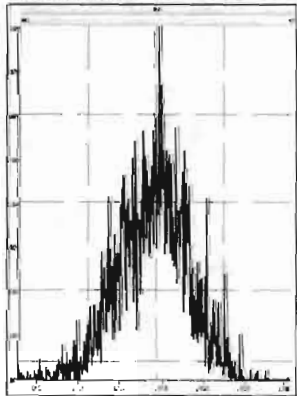
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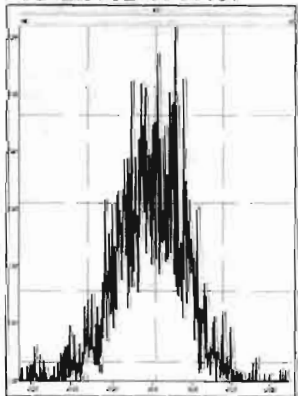
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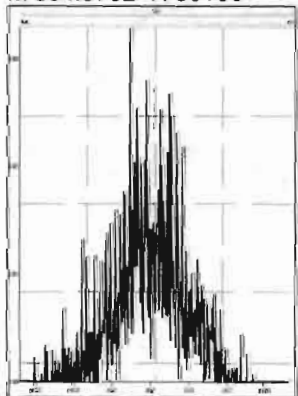
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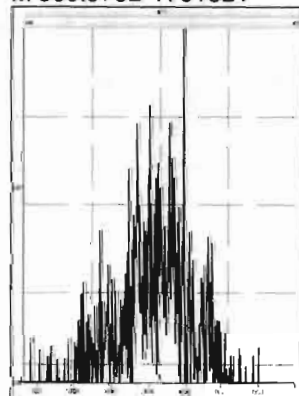
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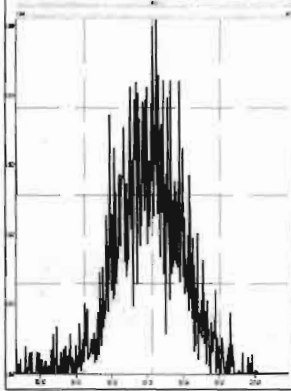
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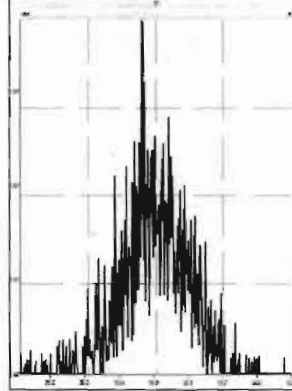
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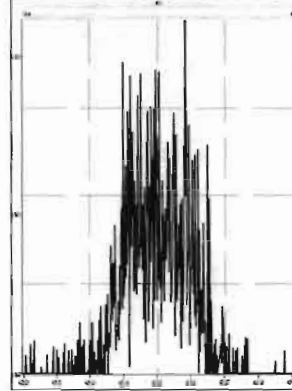
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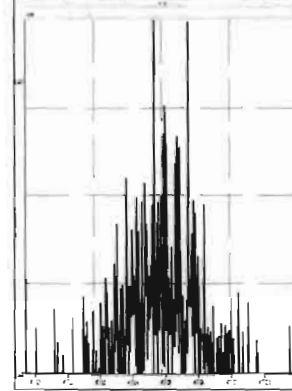
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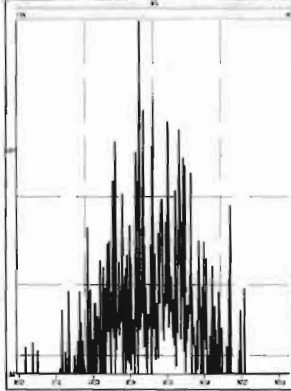
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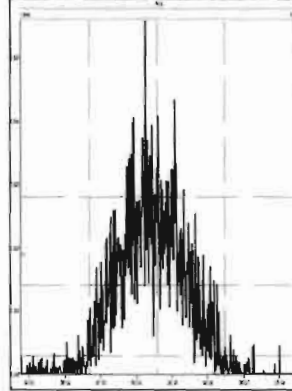
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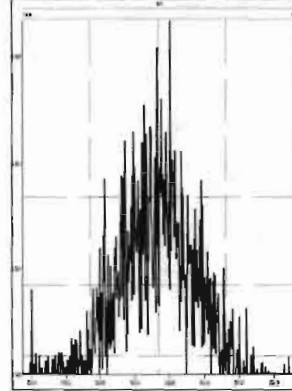
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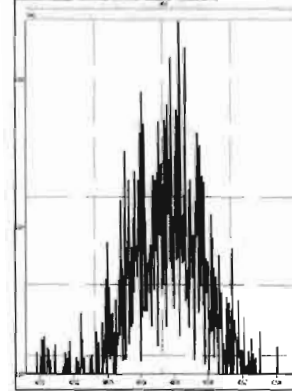
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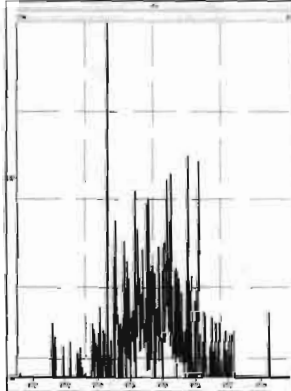
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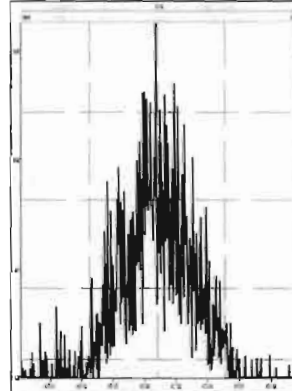
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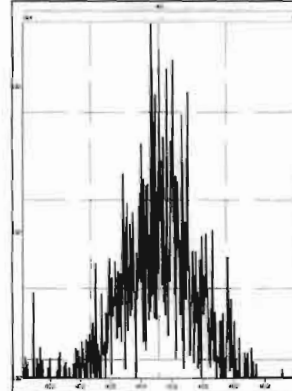
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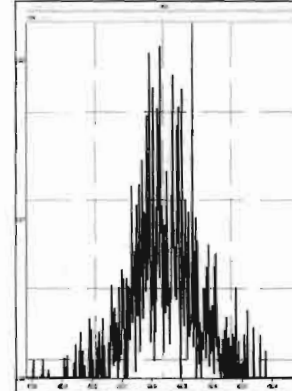
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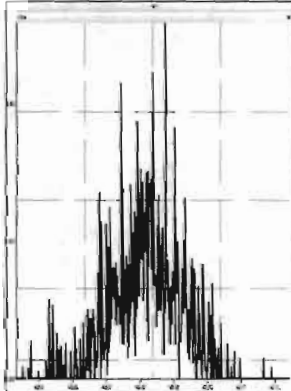
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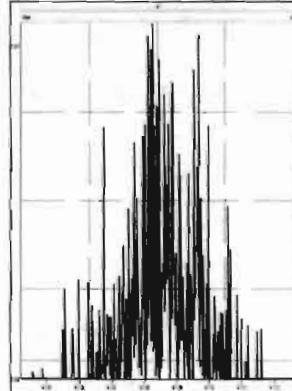
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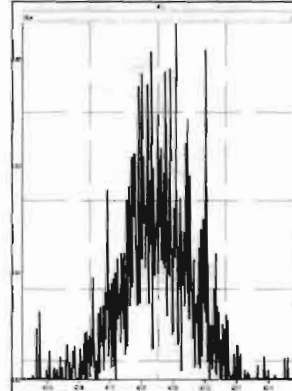
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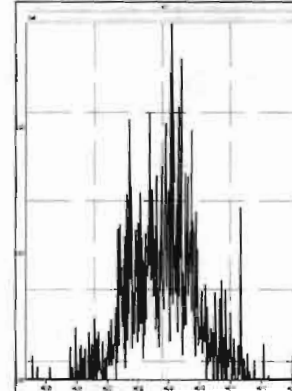
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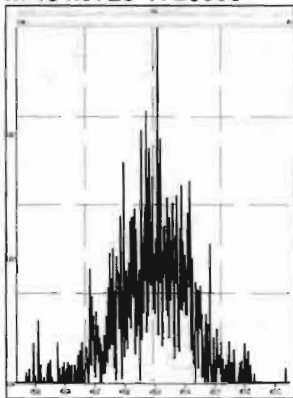
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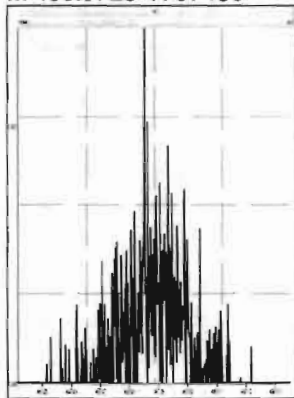
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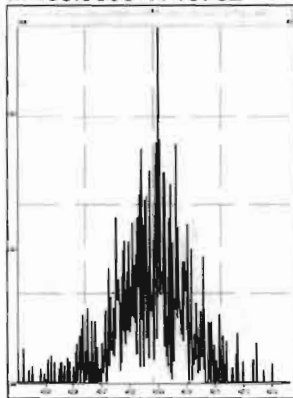
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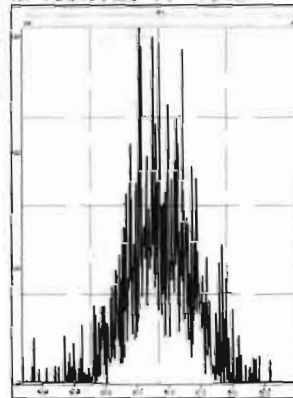
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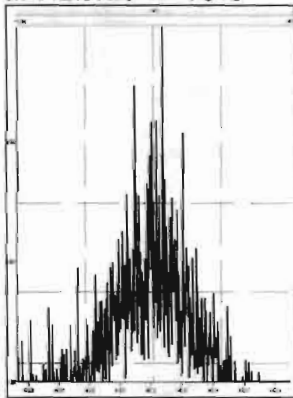
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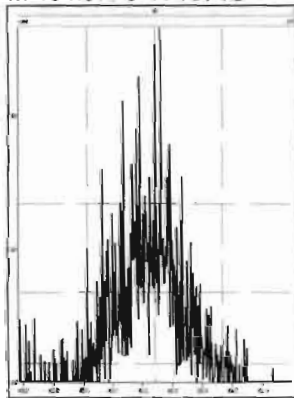
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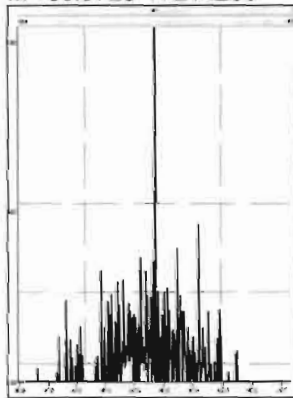
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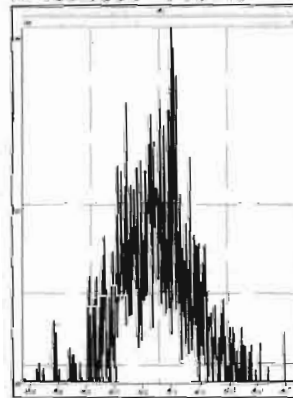
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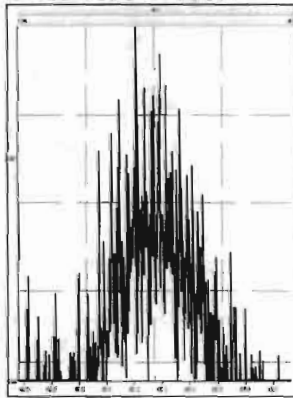
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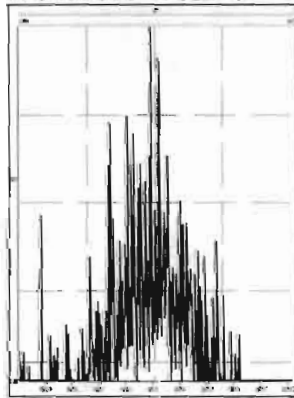
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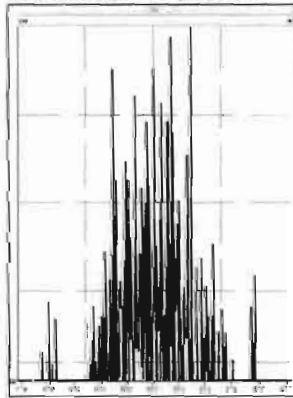
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M 504.9696 R 53215



M 516.9697 R 386904



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_9.qld

Last Altered: Wednesday, May 27, 2020 12:01:08 Pacific Daylight Time
Printed: Wednesday, May 27, 2020 12:02:16 Pacific Daylight Time

DB 5/27/20 0705/27/20

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt.mdb 27 Apr 2020 14:17:24
Calibration: U:\VG7.PRO\CurveDB\db-5_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Name: 200526D2_9, Date: 27-May-2020, Time: 02:13:37, ID: SS200526D2-1 1613 SSS 20E0710, Description: 1613 SSS 20E0710

	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	9.61e3	0.82	NO	0.986	1.000	26.189	26.17	1.001	1.001	10.643	106	0.0639	10.6
2	2 1,2,3,7,8-PeCDD	2.86e4	0.63	NO	0.964	1.000	30.630	30.63	1.001	1.001	46.774	93.5	0.0940	46.8
3	3 1,2,3,4,7,8-HxCDD	2.93e4	1.27	NO	1.16	1.000	33.938	33.95	1.000	1.001	46.907	93.8	0.177	46.9
4	4 1,2,3,6,7,8-HxCDD	3.12e4	1.29	NO	1.01	1.000	34.038	34.05	1.000	1.000	49.882	99.8	0.194	49.9
5	5 1,2,3,7,8,9-HxCDD	2.94e4	1.25	NO	1.01	1.000	34.368	34.34	1.001	1.000	47.481	95.0	0.207	47.5
6	6 1,2,3,4,6,7,8-HpCDD	2.32e4	1.06	NO	0.997	1.000	37.791	37.78	1.000	1.000	46.984	94.0	0.298	47.0
7	7 OCDD	4.45e4	0.88	NO	1.01	1.000	41.082	41.08	1.000	1.000	95.100	95.1	0.381	95.1
8	8 2,3,7,8-TCDF	1.21e4	0.75	NO	0.833	1.000	25.403	25.41	1.001	1.001	9.4425	94.4	0.0512	9.44
9	9 1,2,3,7,8-PeCDF	5.31e4	1.67	NO	0.965	1.000	29.462	29.46	1.001	1.001	47.411	94.8	0.119	47.4
10	10 2,3,4,7,8-PeCDF	6.02e4	1.60	NO	1.01	1.000	30.357	30.35	1.001	1.001	53.391	107	0.105	53.4
11	11 1,2,3,4,7,8-HxCDF	4.61e4	1.28	NO	1.09	1.000	33.039	33.05	1.000	1.000	48.113	96.2	0.186	48.1
12	12 1,2,3,6,7,8-HxCDF	4.75e4	1.28	NO	1.07	1.000	33.170	33.17	1.000	1.000	48.294	96.6	0.193	48.3
13	13 2,3,4,6,7,8-HxCDF	4.36e4	1.28	NO	1.15	1.000	33.786	33.77	1.001	1.001	46.073	92.1	0.194	46.1
14	14 1,2,3,7,8,9-HxCDF	3.60e4	1.30	NO	1.11	1.000	34.718	34.73	1.000	1.000	44.678	89.4	0.276	44.7
15	15 1,2,3,4,6,7,8-HpCDF	3.55e4	1.00	NO	1.16	1.000	36.620	36.59	1.001	1.000	47.071	94.1	0.321	47.1
16	16 1,2,3,4,7,8,9-HpCDF	3.10e4	1.02	NO	1.35	1.000	38.317	38.33	1.000	1.000	47.041	94.1	0.283	47.0
17	17 OCDF	5.28e4	0.90	NO	0.949	1.000	41.302	41.31	1.000	1.000	91.295	91.3	0.222	91.3
18	18 13C-2,3,7,8-TCDD	9.16e4	0.79	NO	1.26	1.000	26.273	26.16	1.026	1.021	101.93	102	0.287	
19	19 13C-1,2,3,7,8-PeCDD	6.34e4	0.61	NO	0.921	1.000	30.780	30.61	1.202	1.195	96.456	96.5	0.220	
20	20 13C-1,2,3,4,7,8-HxCDD	5.37e4	1.34	NO	0.707	1.000	33.913	33.93	1.014	1.014	94.462	94.5	0.355	
21	21 13C-1,2,3,6,7,8-HxCDD	6.21e4	1.38	NO	0.829	1.000	34.024	34.04	1.017	1.018	93.242	93.2	0.303	
22	22 13C-1,2,3,7,8,9-HxCDD	6.15e4	1.37	NO	0.808	1.000	34.295	34.33	1.025	1.027	94.700	94.7	0.311	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.96e4	1.02	NO	0.662	1.000	37.759	37.78	1.129	1.130	93.362	93.4	0.705	
24	24 13C-OCDD	9.24e4	0.88	NO	0.608	1.000	40.783	41.08	1.219	1.228	189.02	94.5	0.479	
25	25 13C-2,3,7,8-TCDF	1.53e5	0.78	NO	1.07	1.000	25.351	25.38	0.990	0.991	99.831	99.8	0.293	
26	26 13C-1,2,3,7,8-PeCDF	1.16e5	1.61	NO	0.826	1.000	29.594	29.44	1.156	1.150	97.891	97.9	0.264	
27	27 13C-2,3,4,7,8-PeCDF	1.12e5	1.74	NO	0.796	1.000	30.498	30.33	1.191	1.184	97.581	97.6	0.274	
28	28 13C-1,2,3,4,7,8-HxCDF	8.75e4	0.51	NO	1.08	1.000	33.044	33.04	0.988	0.988	101.31	101	0.458	
29	29 13C-1,2,3,6,7,8-HxCDF	9.23e4	0.49	NO	1.12	1.000	33.177	33.16	0.992	0.991	102.16	102	0.438	
30	30 13C-2,3,4,6,7,8-HxCDF	8.19e4	0.49	NO	1.02	1.000	33.749	33.75	1.009	1.009	99.493	99.5	0.480	
31	31 13C-1,2,3,7,8,9-HxCDF	7.22e4	0.51	NO	0.887	1.000	34.649	34.72	1.036	1.038	101.40	101	0.555	

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_9.qld

Last Altered: Wednesday, May 27, 2020 12:01:08 Pacific Daylight Time
Printed: Wednesday, May 27, 2020 12:02:16 Pacific Daylight Time

Name: 200526D2_9, Date: 27-May-2020, Time: 02:13:37, ID: SS200526D2-1 1613 SSS 20E0710, Description: 1613 SSS 20E0710

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	6.52e4	0.44	NO	0.811	1.000	36.355	36.58	1.087	1.094	100.14	100	0.525	
33	13C-1,2,3,4,7,8,9-HpCDF	4.88e4	0.43	NO	0.598	1.000	38.361	38.32	1.147	1.146	101.56	102	0.711	
34	13C-OCDF	1.22e5	0.88	NO	0.752	1.000	40.937	41.30	1.224	1.235	201.85	101	0.313	
35	37Cl-2,3,7,8-TCDD	9.10e3			1.24	1.000	26.270	26.17	1.026	1.022	10.258	103	0.0590	
36	13C-1,2,3,4-TCDD	7.13e4	0.84	NO	1.00	1.000	25.480	25.61	1.000	1.000	100.00	100	0.361	
37	13C-1,2,3,4-TCDF	1.44e5	0.81	NO	1.00	1.000	24.020	24.20	1.000	1.000	100.00	100	0.313	
38	13C-1,2,3,4,6,9-HxCDF	8.03e4	0.50	NO	1.00	1.000	33.530	33.44	1.000	1.000	100.00	100	0.492	

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_9.qld

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Printed: Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time

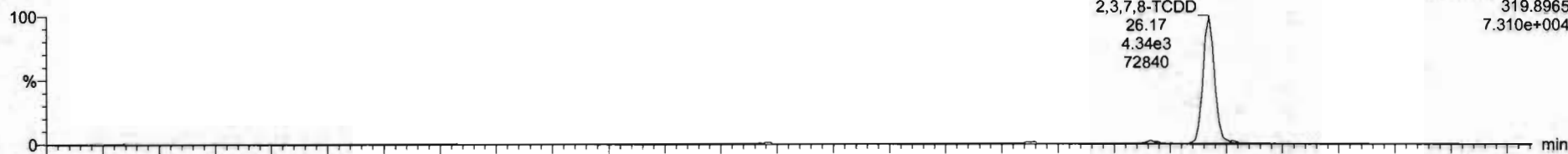
Method: C:\MassLynx\Default.pro\Methdb\1613_rrt.mdb 27 Apr 2020 14:17:24

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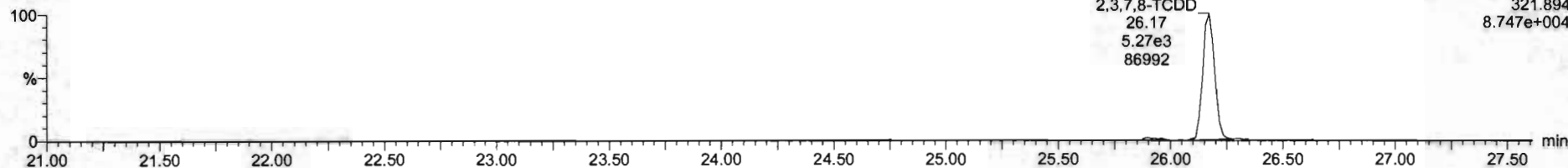
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2,3,7,8-TCDD

200526D2_9

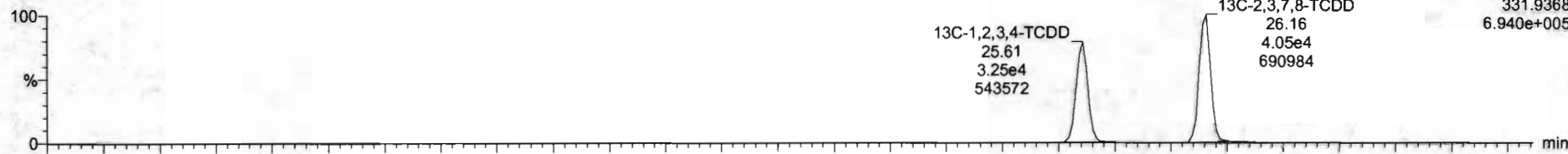


200526D2_9

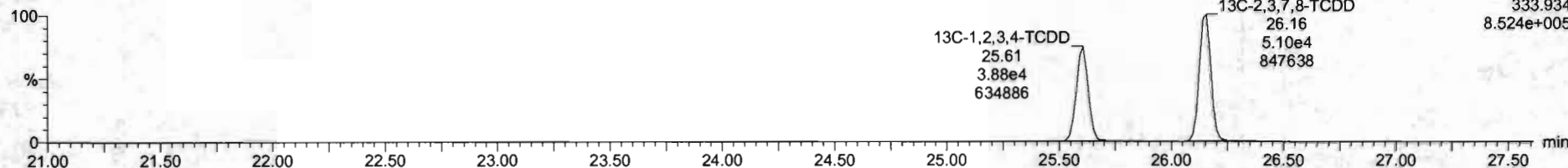


13C-2,3,7,8-TCDD

200526D2_9



200526D2_9



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_9.qld

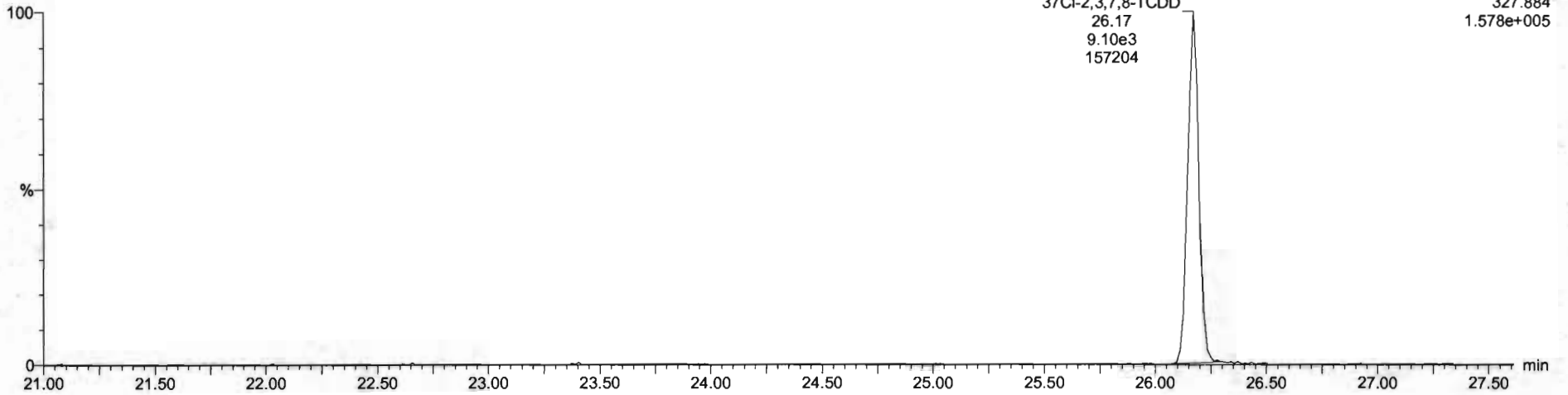
Last Altered: Wednesday, May 27, 2020 12:01:08 Pacific Daylight Time

Printed: Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time

Name: 200526D2_9, Date: 27-May-2020, Time: 02:13:37, ID: SS200526D2-1 1613 SSS 20E0710, Description: 1613 SSS 20E0710

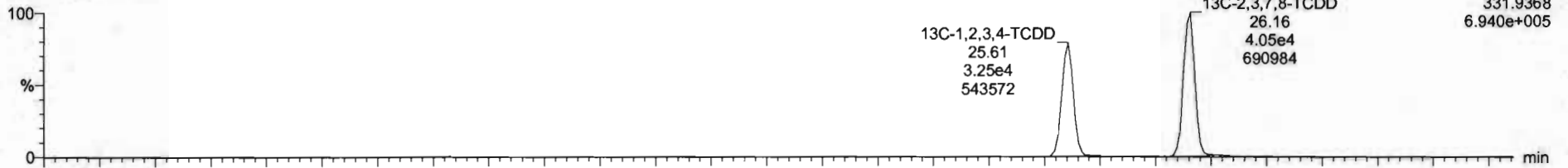
37Cl-2,3,7,8-TCDD

200526D2_9

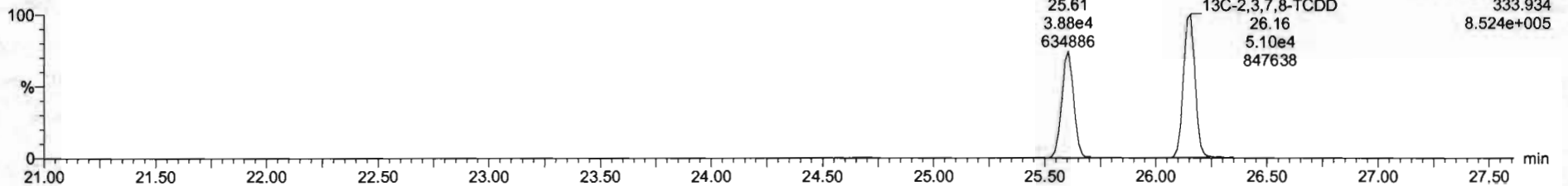


13C-1,2,3,4-TCDD

200526D2_9



200526D2_9



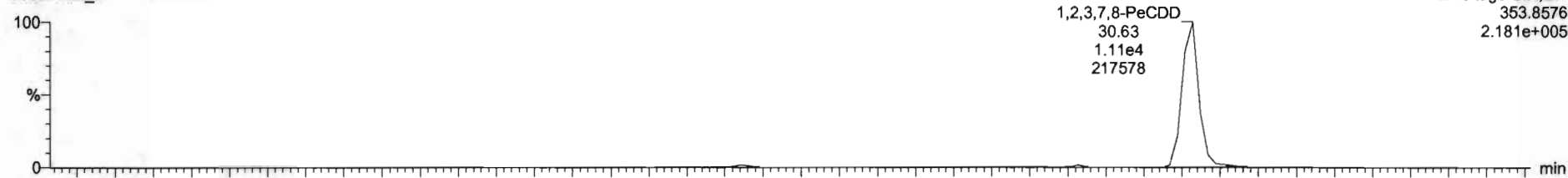
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Printed: Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time

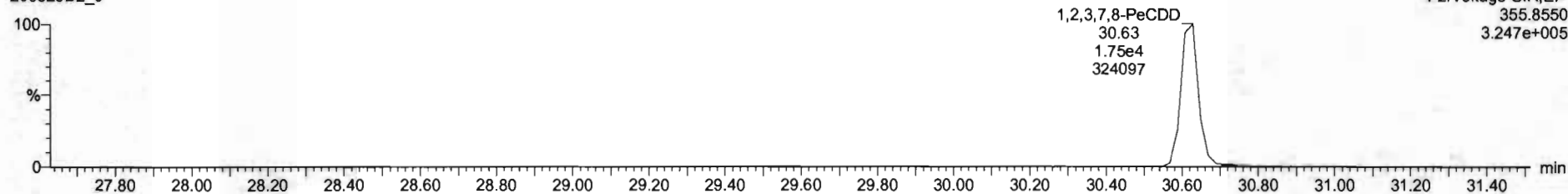
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1,2,3,7,8-PeCDD

200526D2_9

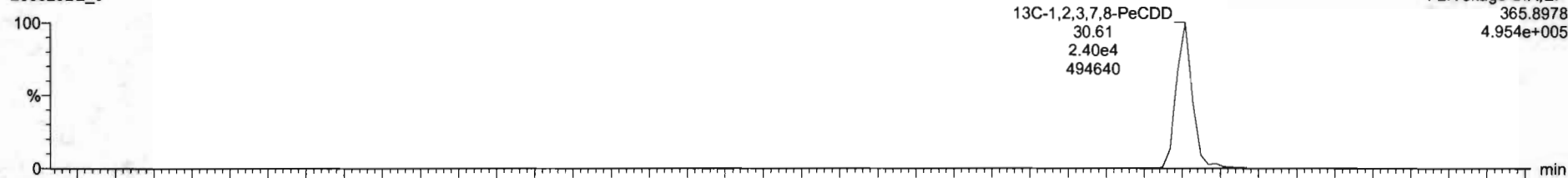


200526D2_9

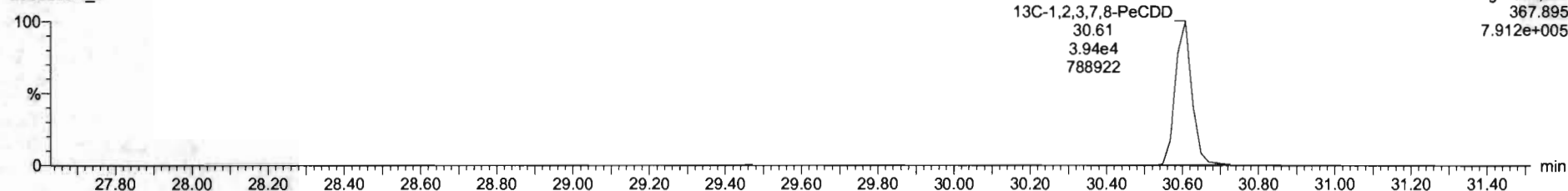


13C-1,2,3,7,8-PeCDD

200526D2_9



200526D2_9



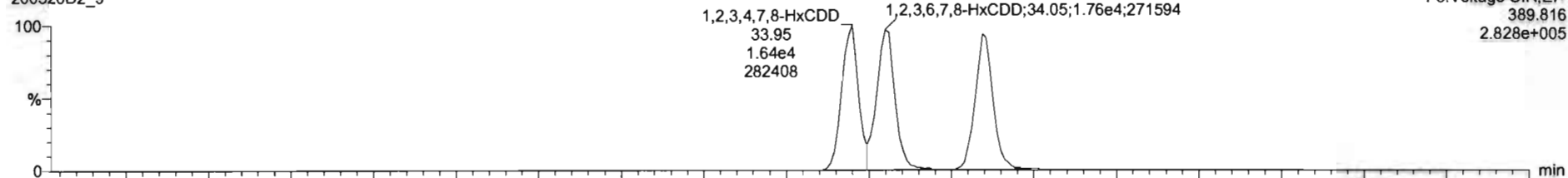
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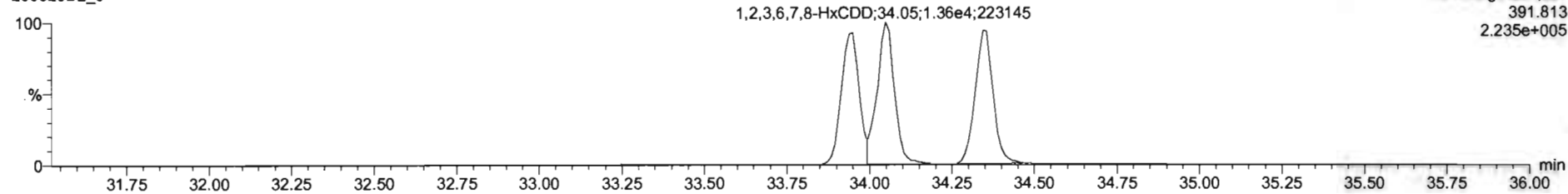
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1,2,3,4,7,8-HxCDD

200526D2_9

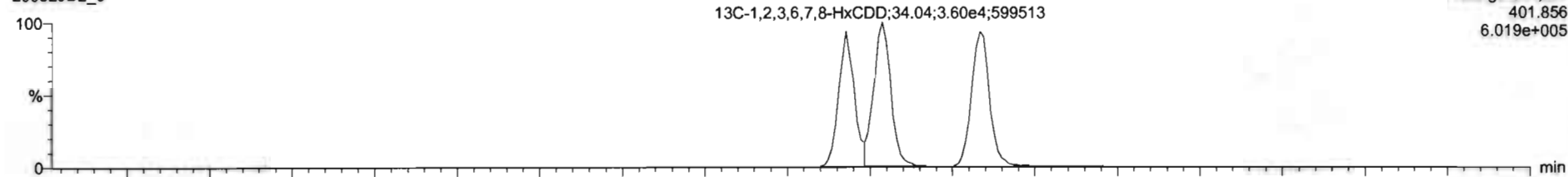


200526D2_9

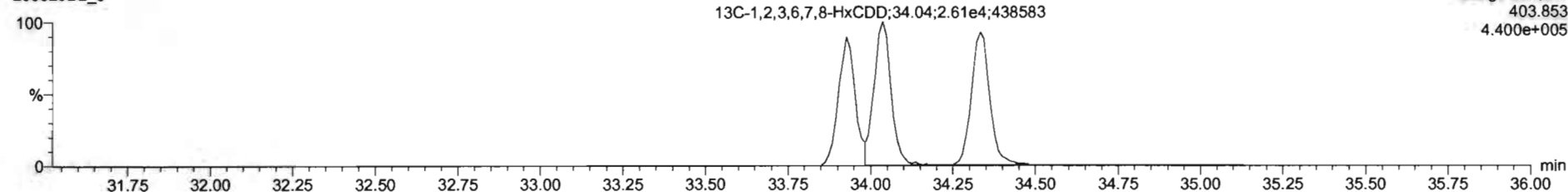


13C-1,2,3,4,7,8-HxCDD

200526D2_9



200526D2_9



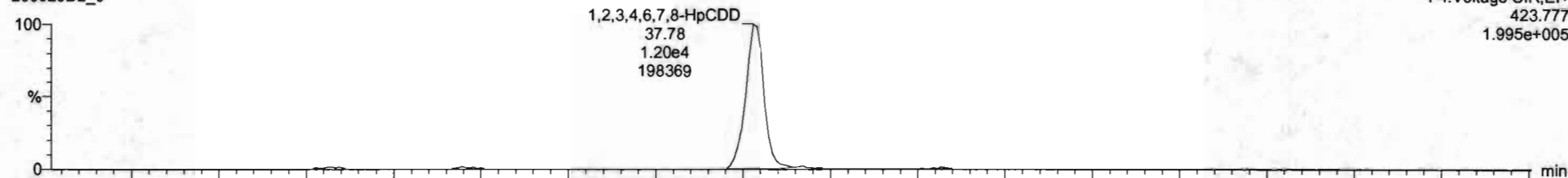
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Last Altered: Wednesday, May 27, 2020 12:01:08 Pacific Daylight Time
Printed: Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time

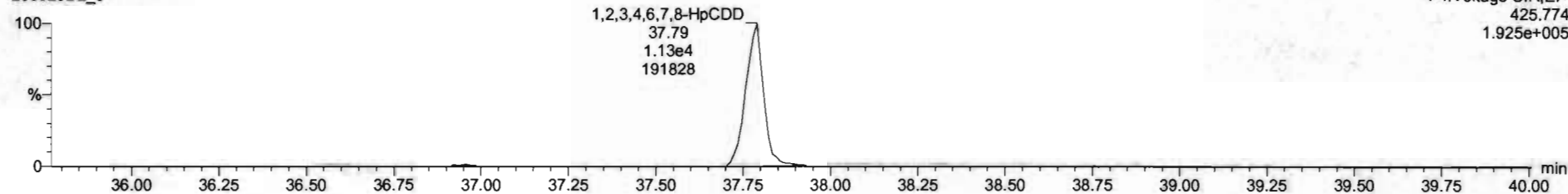
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1,2,3,4,6,7,8-HpCDD

200526D2_9

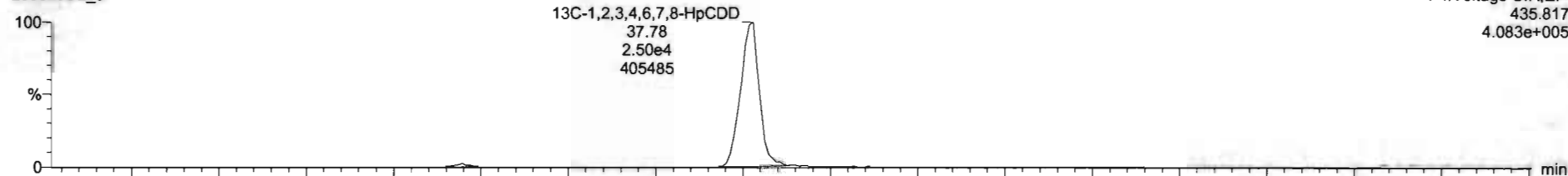


200526D2_9

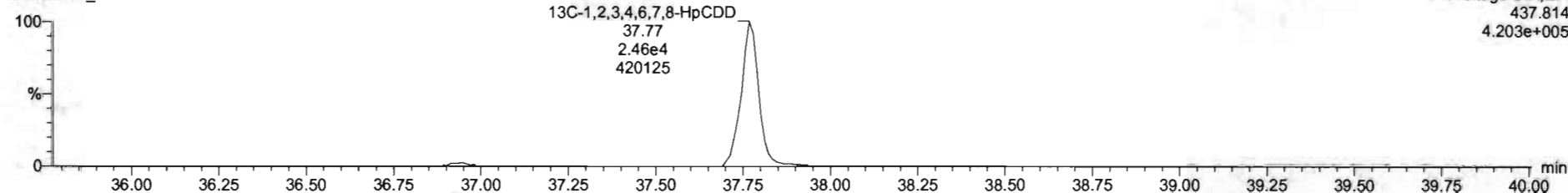


13C-1,2,3,4,6,7,8-HpCDD

200526D2_9



200526D2_9



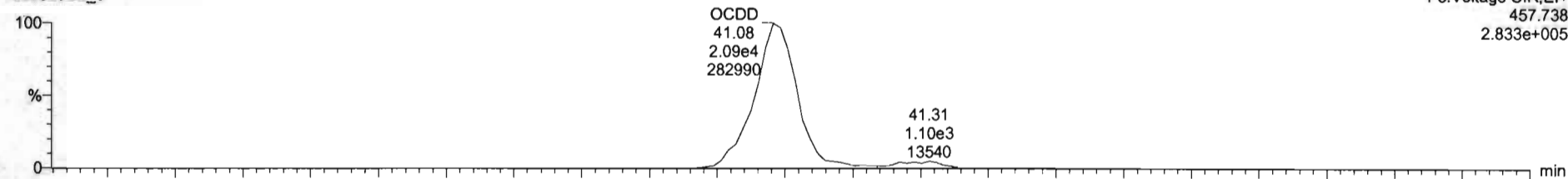
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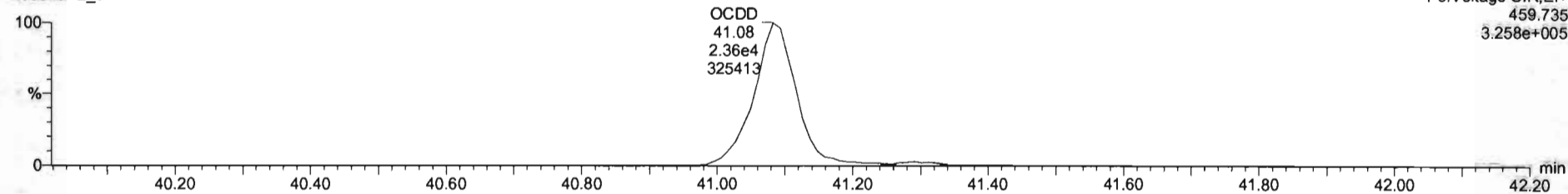
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OCDD

200526D2_9

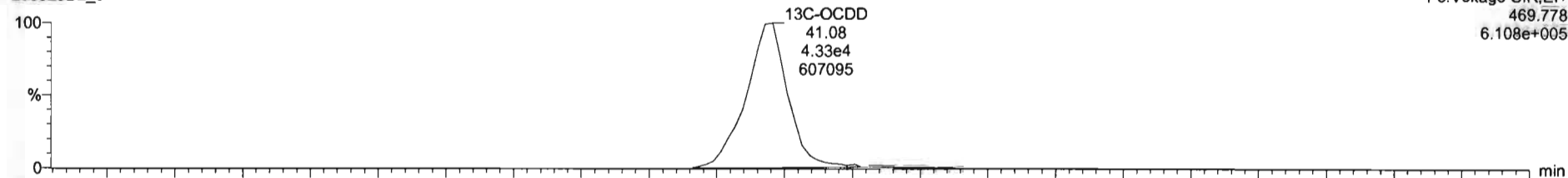


200526D2_9

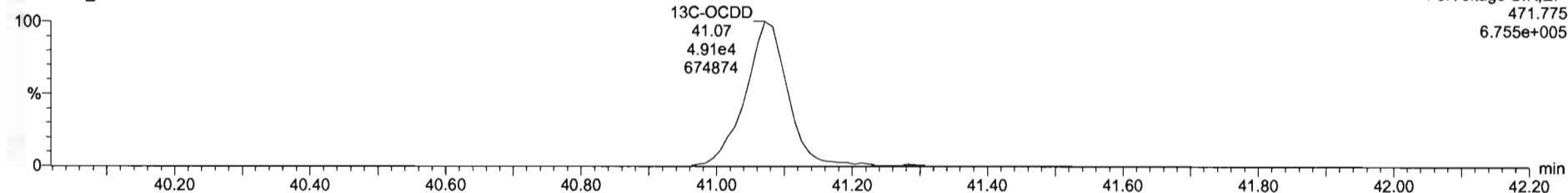


13C-OCDD

200526D2_9



200526D2_9



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_9.qld

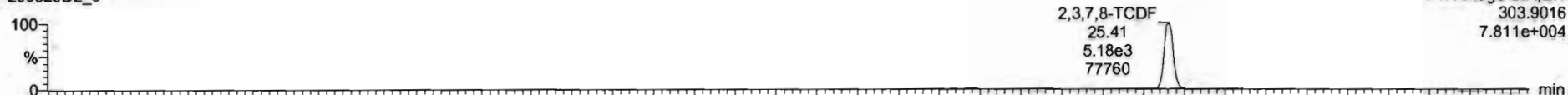
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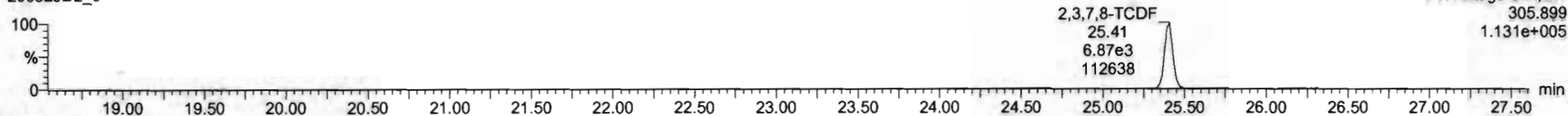
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2,3,7,8-TCDF

200526D2_9

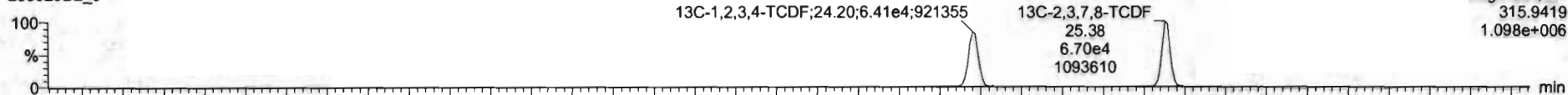


200526D2_9

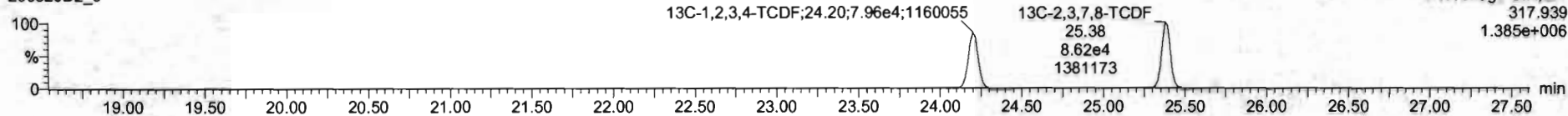


13C-2,3,7,8-TCDF

200526D2_9

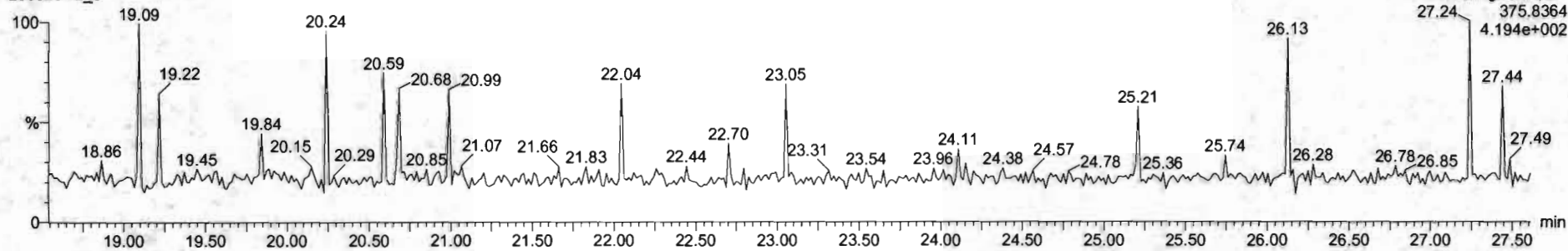


200526D2_9



DPE1

200526D2_9



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_9.qld

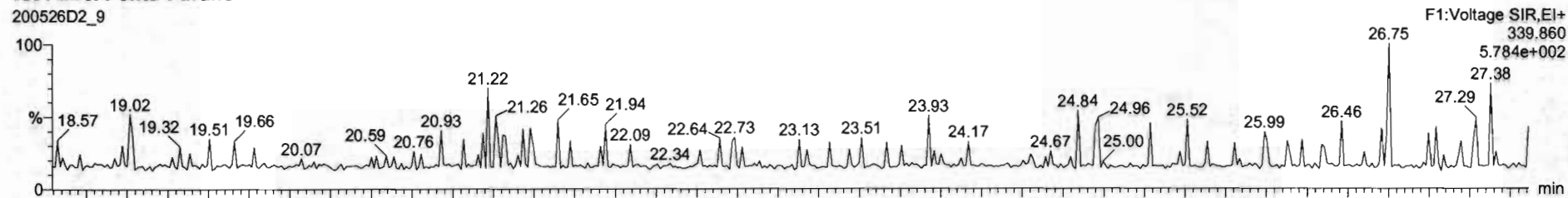
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Printed: Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time

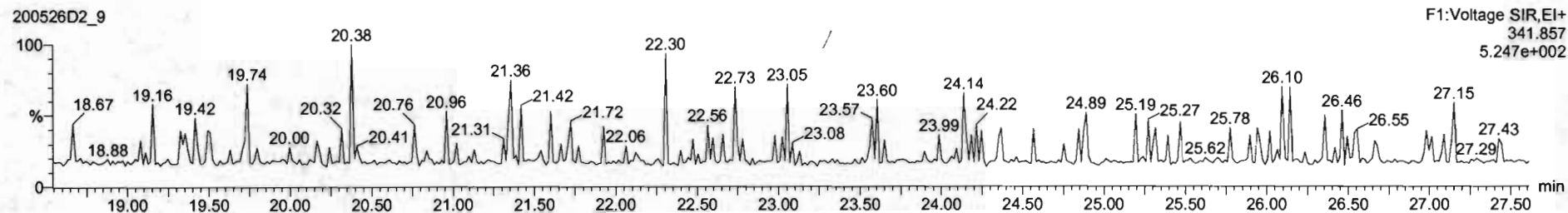
Name: 200526D2_9, Date: 27-May-2020, Time: 02:13:37, ID: SS200526D2-1 1613 SSS 20E0710, Description: 1613 SSS 20E0710

1st Func. Penta-Furans

200526D2_9

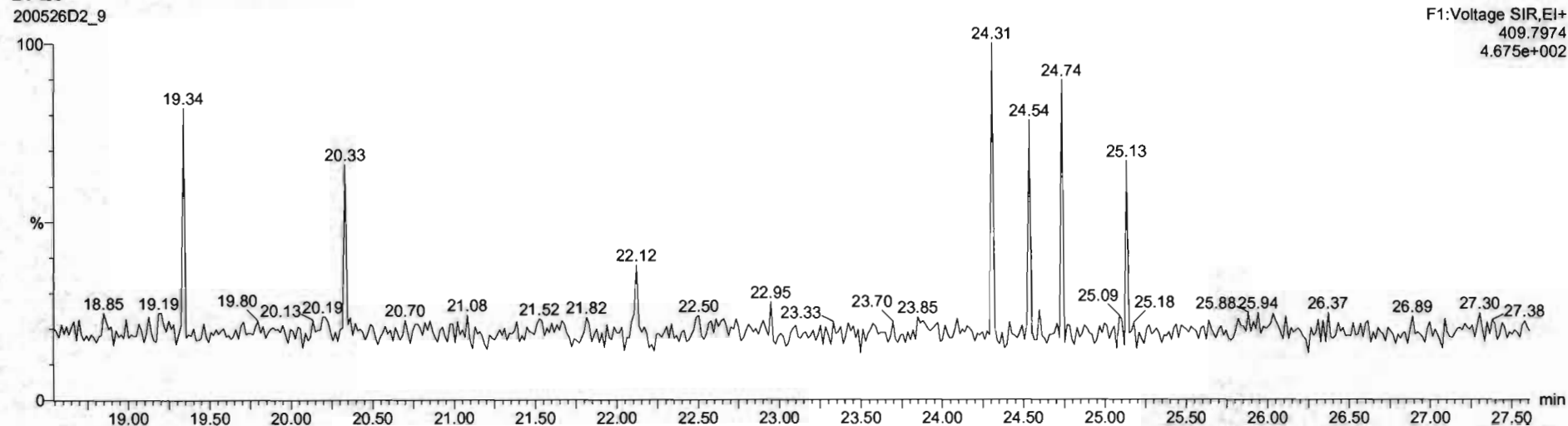


200526D2_9



DPE6

200526D2_9



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_9.qld

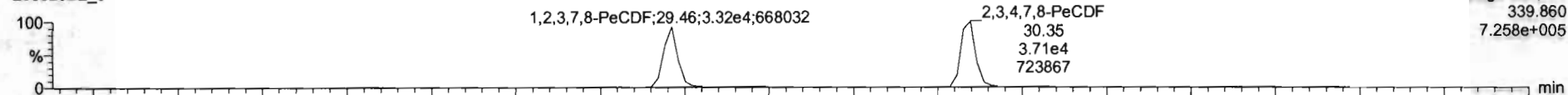
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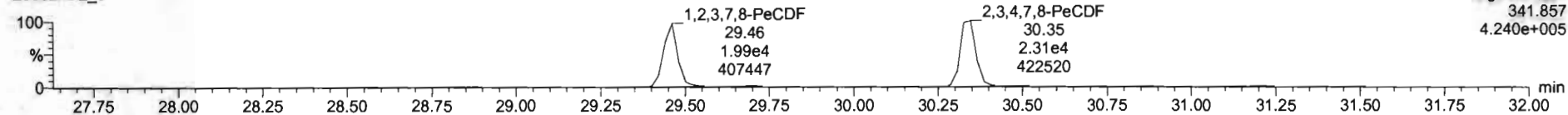
1,2,3,7,8-PeCDF

200526D2_9



F2:Voltage SIR,EI+
339.860
7.258e+005

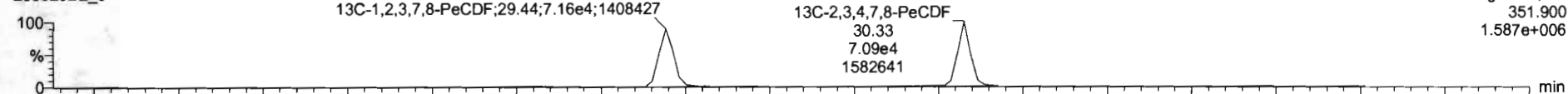
200526D2_9



F2:Voltage SIR,EI+
341.857
4.240e+005

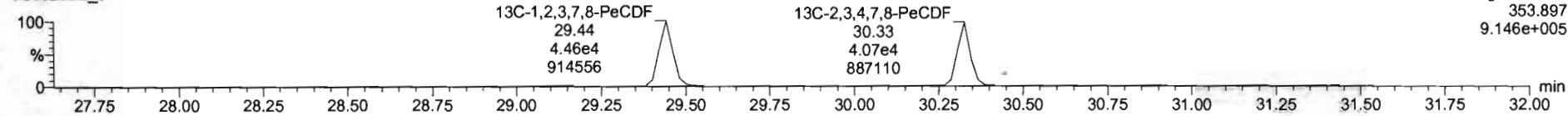
13C-1,2,3,7,8-PeCDF

200526D2_9



F2:Voltage SIR,EI+
351.900
1.587e+006

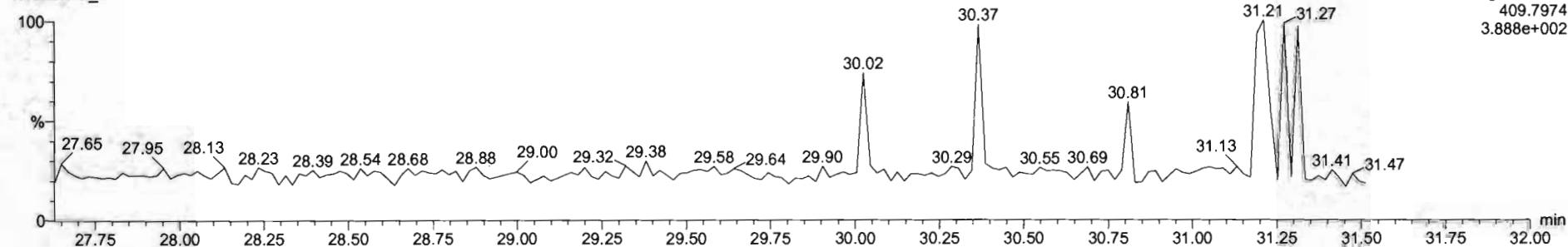
200526D2_9



F2:Voltage SIR,EI+
353.897
9.146e+005

DPE2

200526D2_9



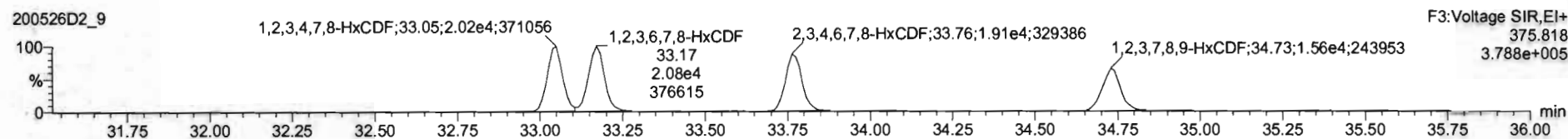
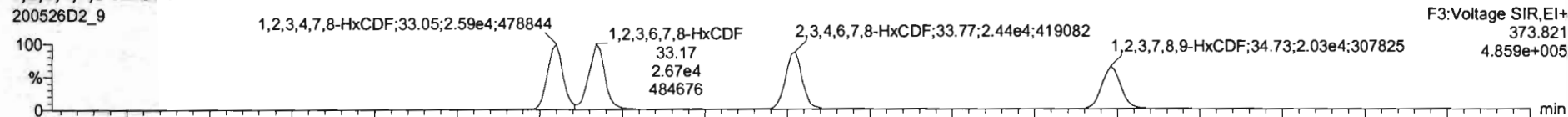
F2:Voltage SIR,EI+
409.7974
3.888e+002

Dataset: U:\VG7.PRO\Results\200526D2\200526D2_9.qld

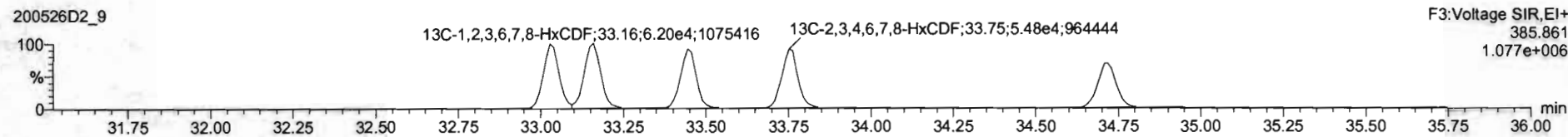
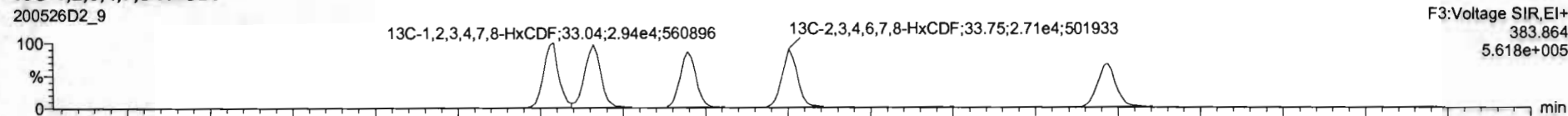
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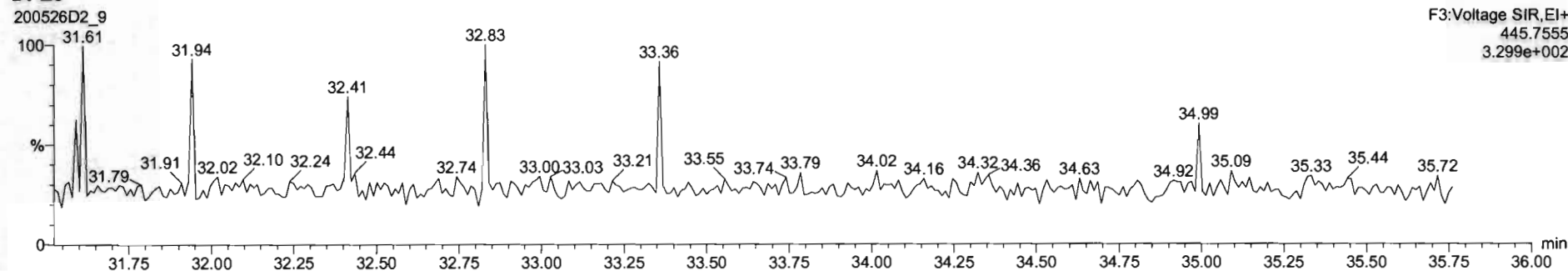
1,2,3,4,7,8-HxCDF



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



DPE3



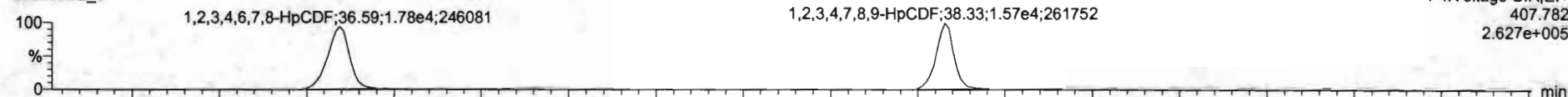
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Printed: Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time

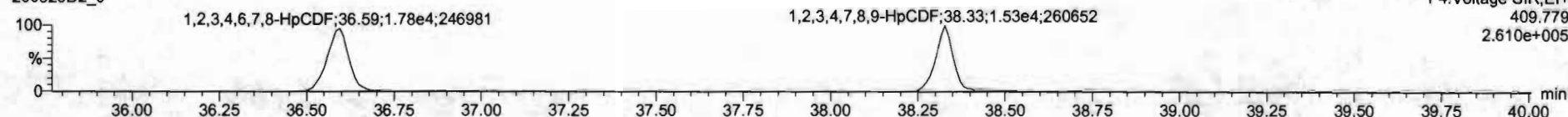
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1,2,3,4,6,7,8-HpCDF

200526D2_9

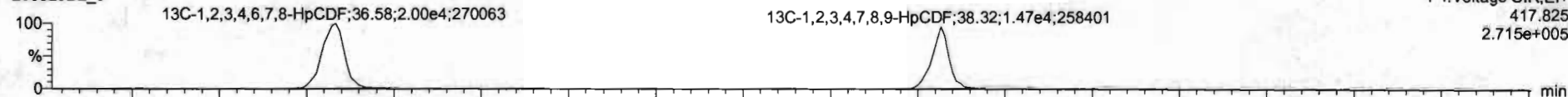


200526D2_9

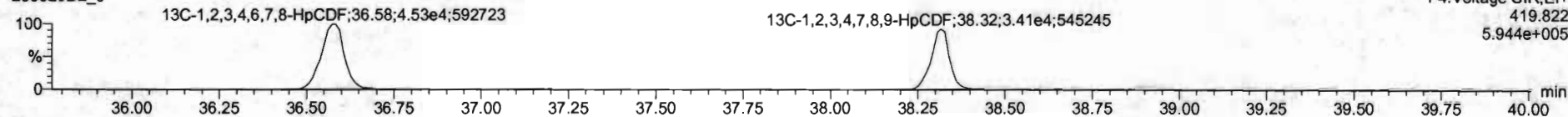


13C-1,2,3,4,6,7,8-HpCDF

200526D2_9

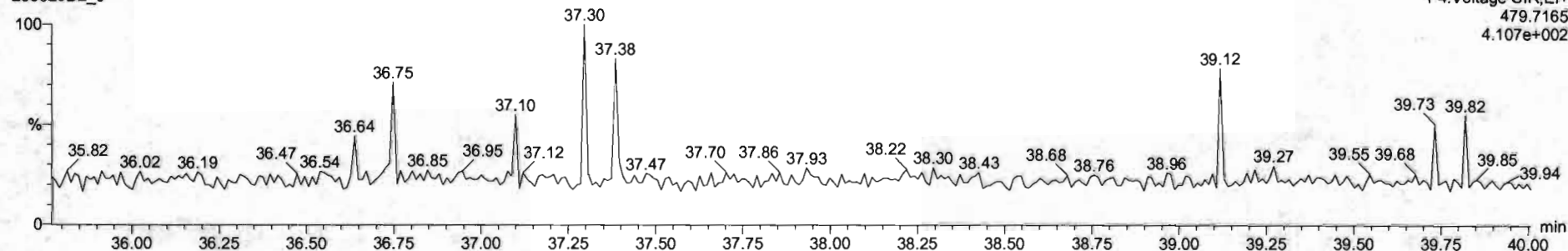


200526D2_9



DPE4

200526D2_9



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_9.qld

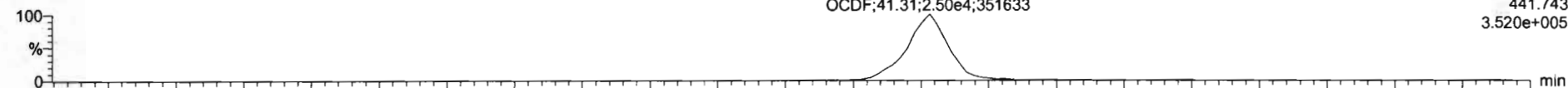
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Printed: Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time

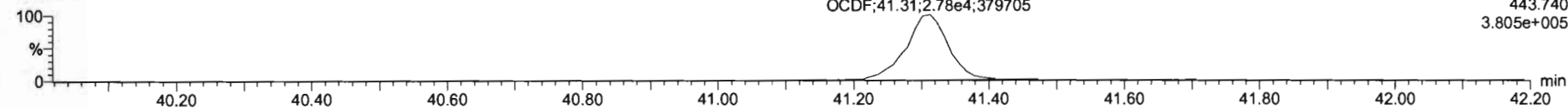
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OCDF

200526D2_9

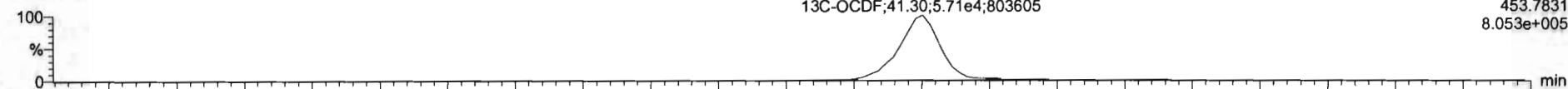


200526D2_9

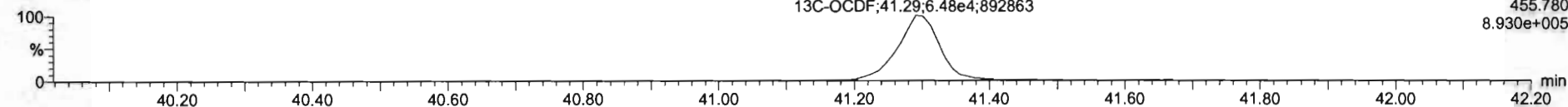


13C-OCDF

200526D2_9

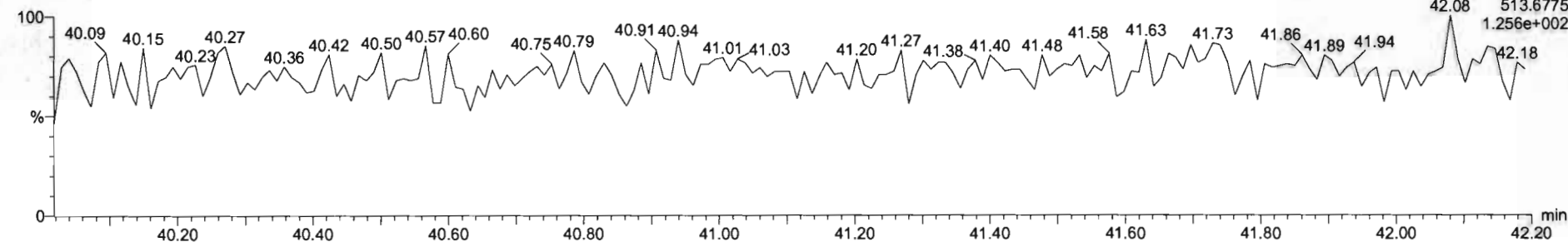


200526D2_9



DPE5

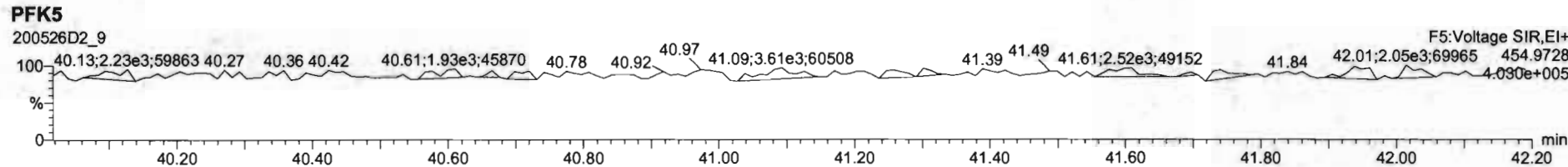
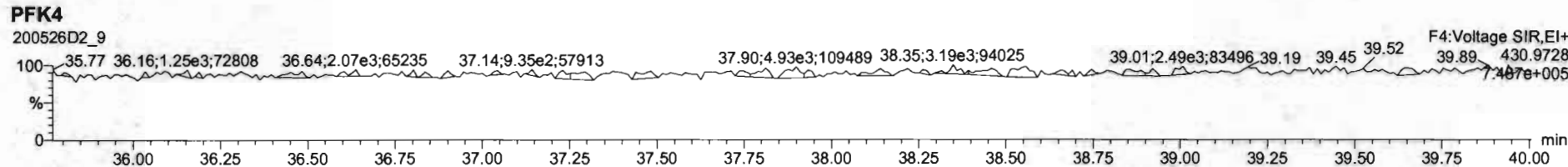
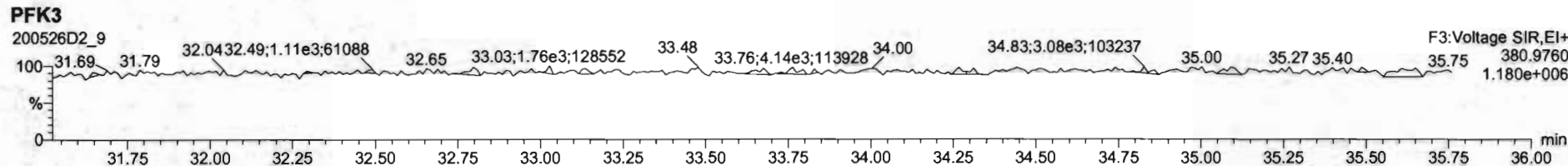
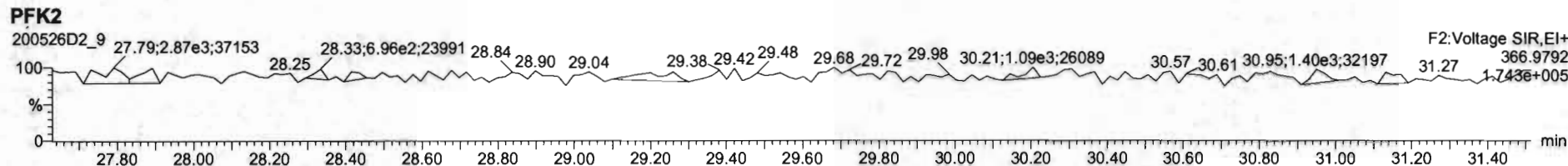
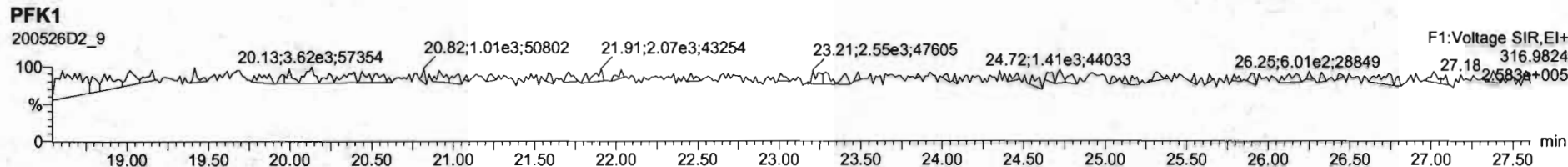
200526D2_9



Dataset: U:\VG7.PRO\Results\200526D2\200526D2_9.qld

Last Altered: Wednesday, May 27, 2020 12:01:08 Pacific Daylight Time
Printed: Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time

Name: 200526D2_9, Date: 27-May-2020, Time: 02:13:37, ID: SS200526D2-1 1613 SSS 20E0710, Description: 1613 SSS 20E0710



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

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

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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

RF 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

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Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	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

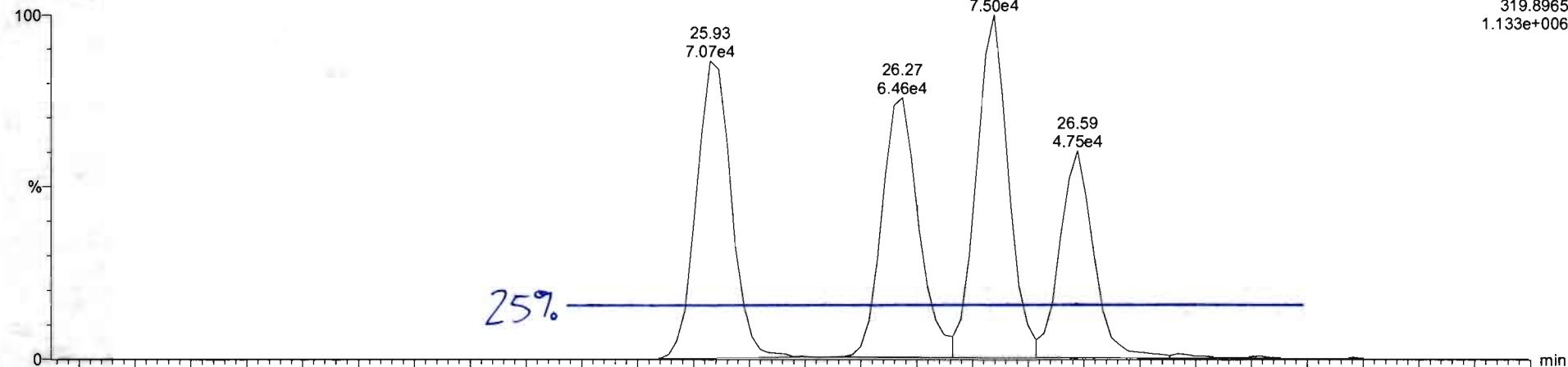
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

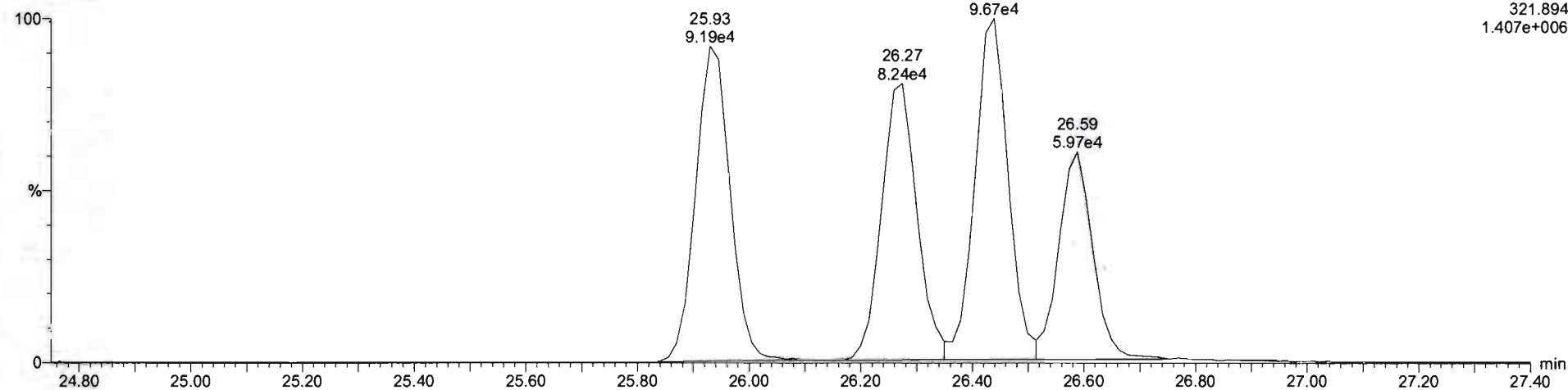
1,3,6,8-TCDD (First)

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

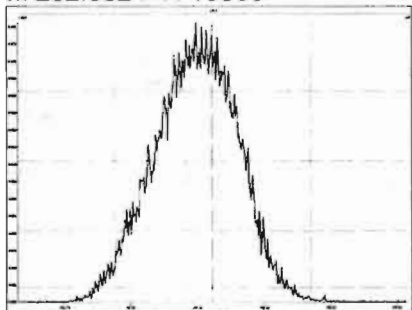
Experiment Calibration Report

MassLynx 4.1 SCN815

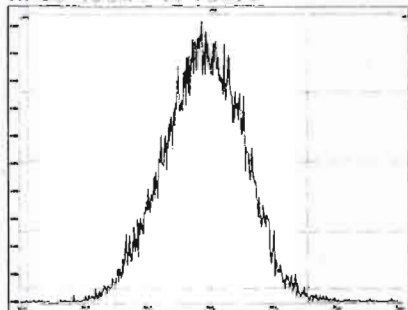
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:48:59 Pacific Daylight Time

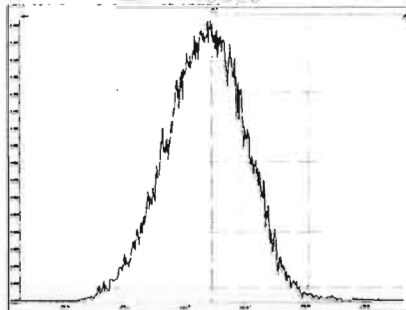
M 292.9824 R 10503



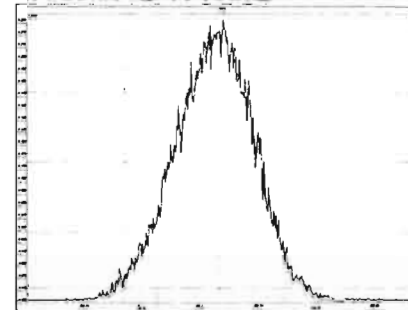
M 304.9824 R 10376



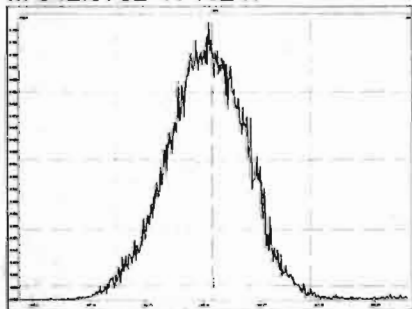
M 318.9792 R 10589



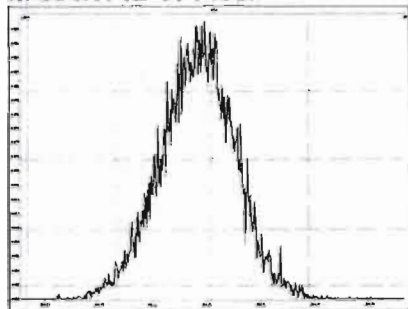
M 330.9792 R 10552



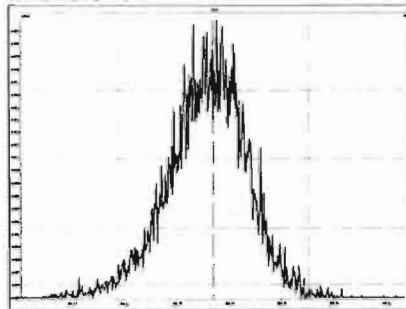
M 342.9792 R 10247



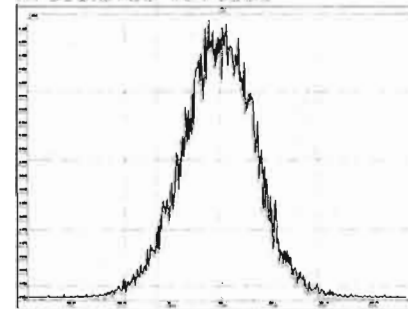
M 354.9792 R 10330



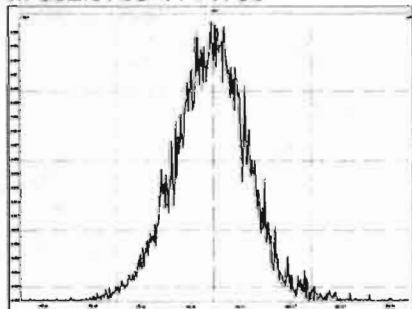
M 366.9792 R 11417



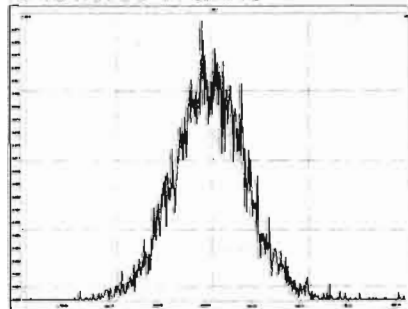
M 380.9760 R 11062



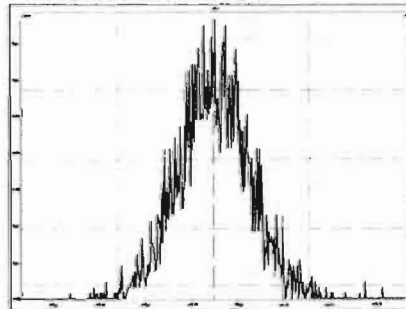
M 392.9760 R 11790



M 404.9760 R 12316



M 416.9760 R 12754



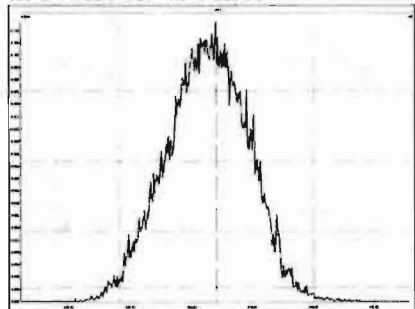
Experiment Calibration Report

MassLynx 4.1 SCN815

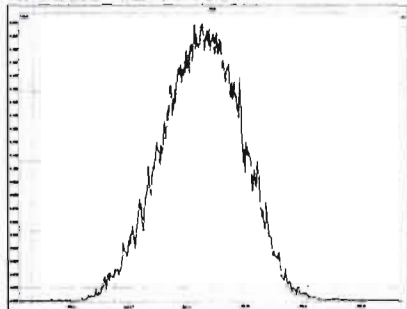
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:49:33 Pacific Daylight Time

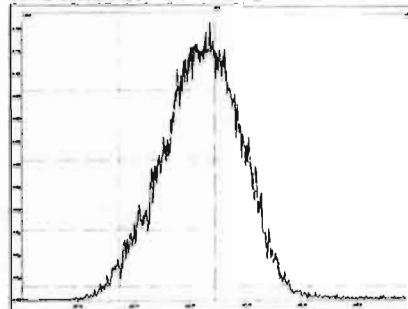
M 318.9792 R 10247



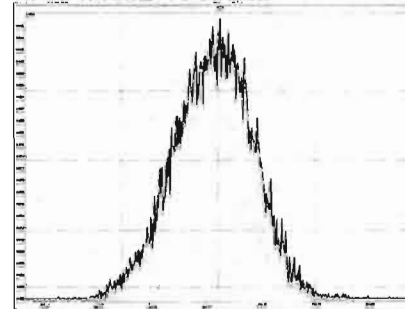
M 330.9792 R 10372



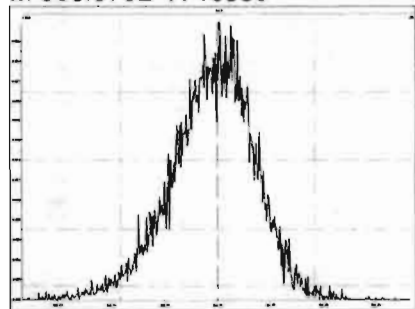
M 342.9792 R 10370



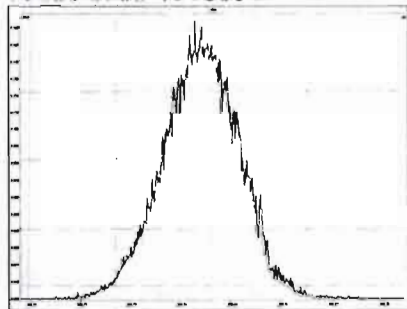
M 354.9792 R 10822



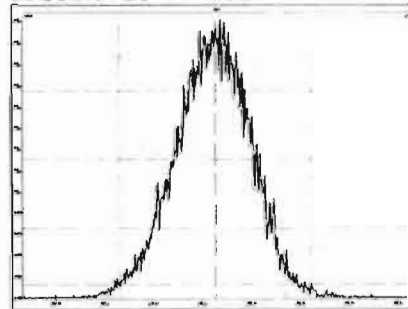
M 366.9792 R 10963



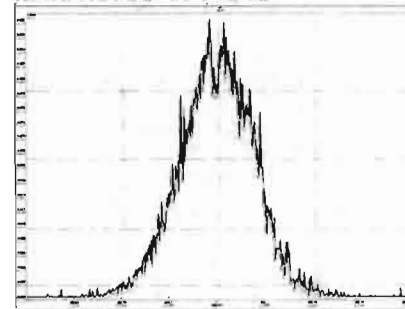
M 380.9760 R 10594



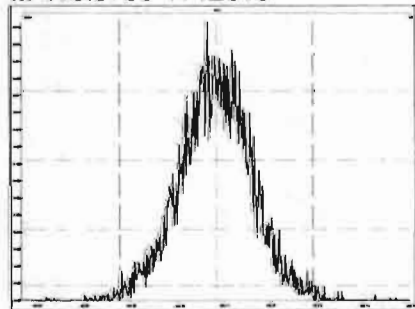
M 392.9760 R 10821



M 404.9760 R 11845



M 416.9760 R 12018



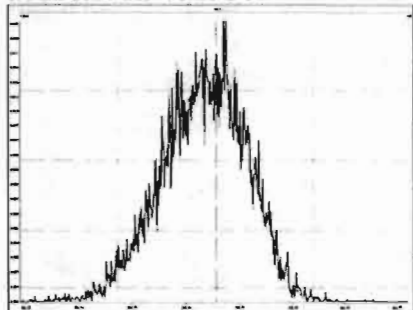
Experiment Calibration Report

MassLynx 4.1 SCN815

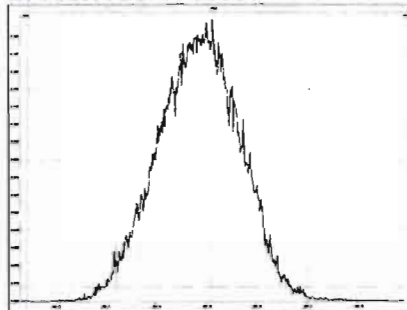
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:50:12 Pacific Daylight Time

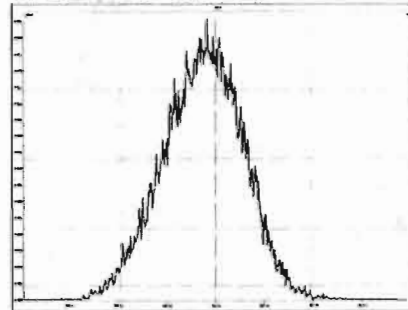
M 366.9792 R 10641



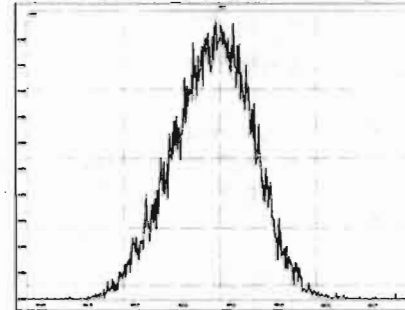
M 380.9760 R 10331



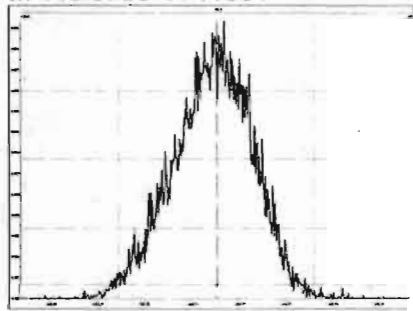
M 392.9760 R 10459



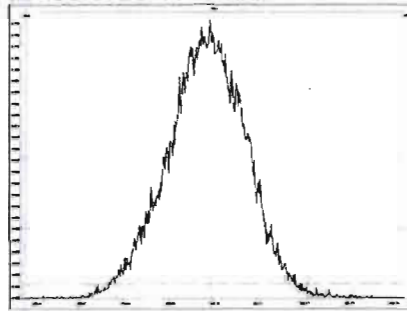
M 404.9760 R 10505



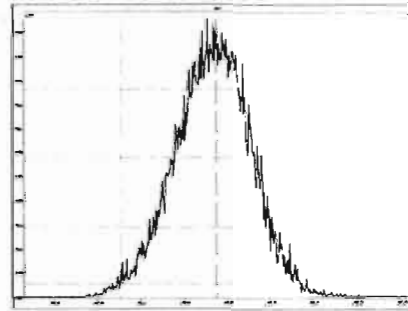
M 416.9760 R 11061



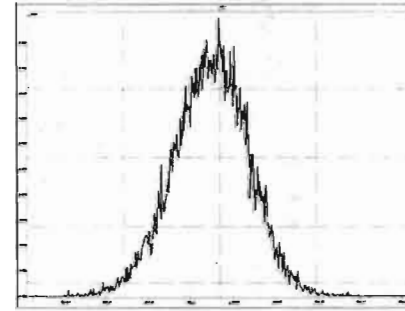
M 430.9728 R 10290



M 442.9728 R 10593



M 454.9728 R 10919



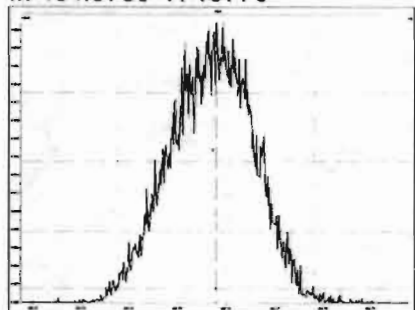
Experiment Calibration Report

MassLynx 4.1 SCN815

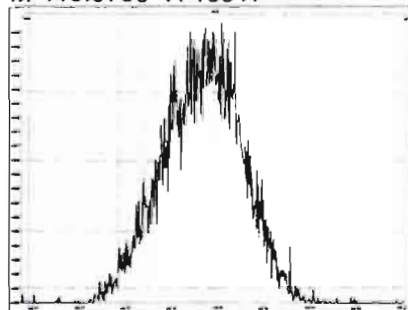
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Printed: Thursday, May 28, 2020 11:51:03 Pacific Daylight Time

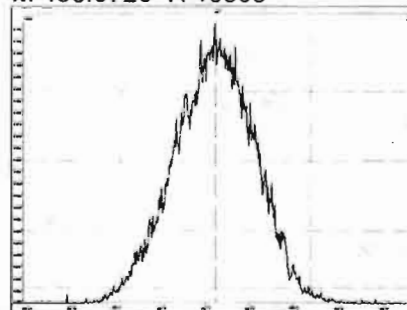
M 404.9760 R 10778



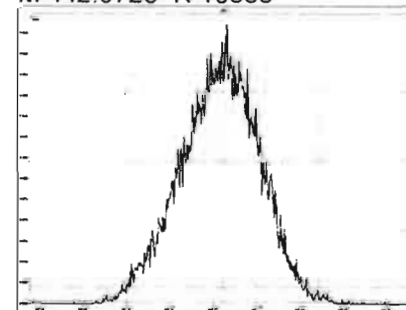
M 416.9760 R 10917



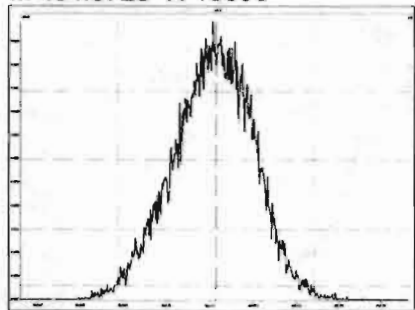
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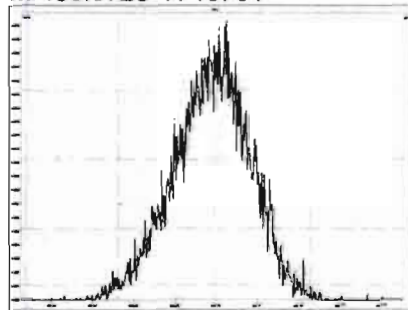
M 442.9728 R 10636



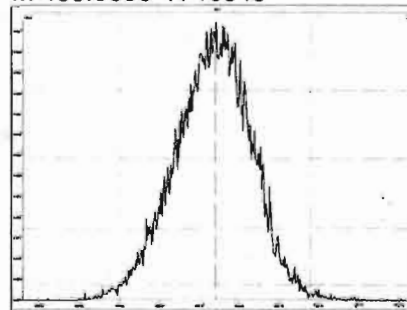
M 454.9728 R 10638



M 466.9728 R 10731



M 480.9696 R 10545



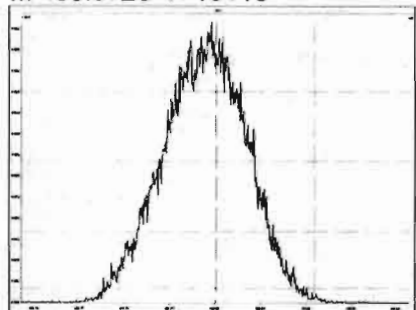
Experiment Calibration Report

MassLynx 4.1 SCN815

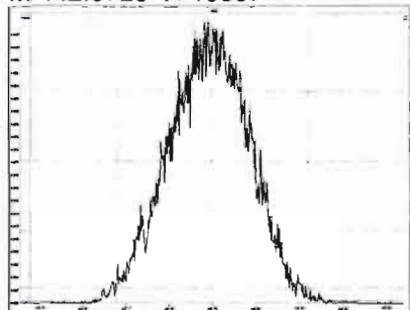
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Printed: Thursday, May 28, 2020 11:51:45 Pacific Daylight Time

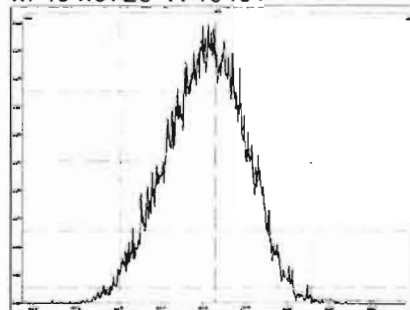
M 430.9728 R 10118



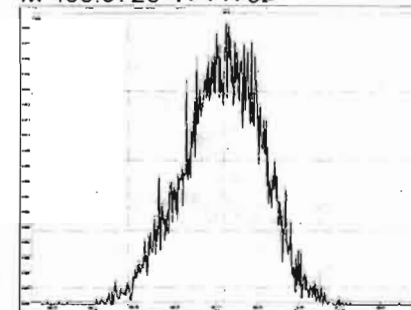
M 442.9728 R 10637



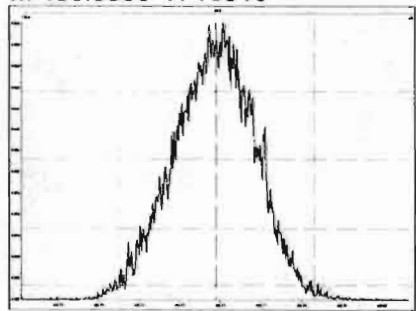
M 454.9728 R 10461



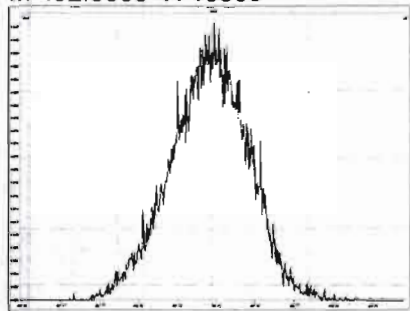
M 466.9728 R 11792



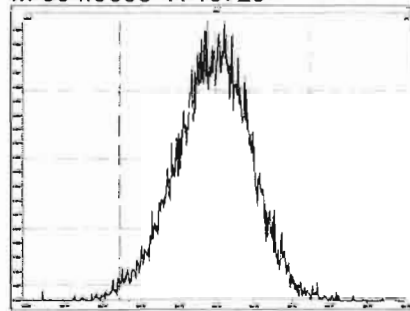
M 480.9696 R 10915



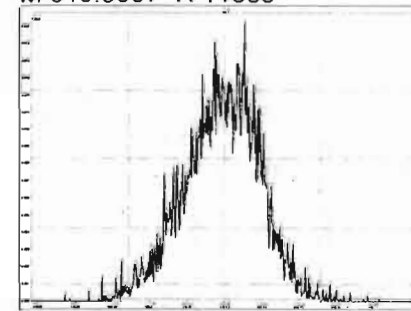
M 492.9696 R 10639



M 504.9696 R 10729



M 516.9697 R 11683



Dataset: Untitled

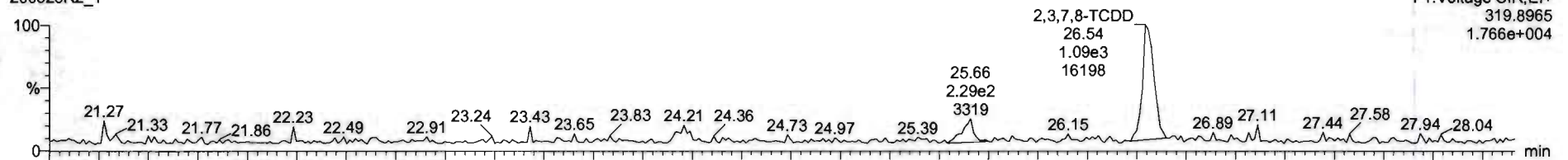
Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17
Calibration: 29 May 2020 07:49:30

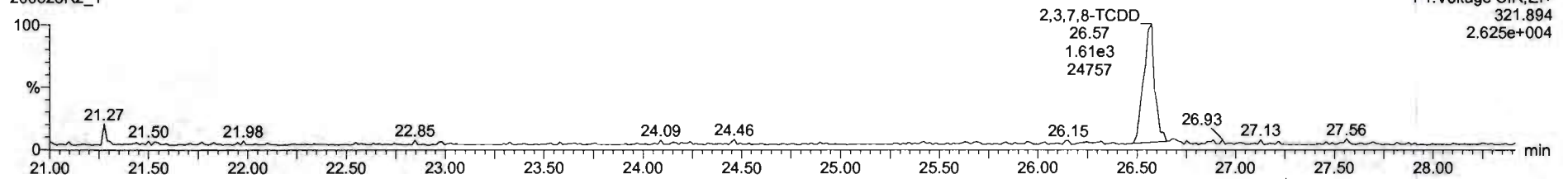
Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200528R2_1

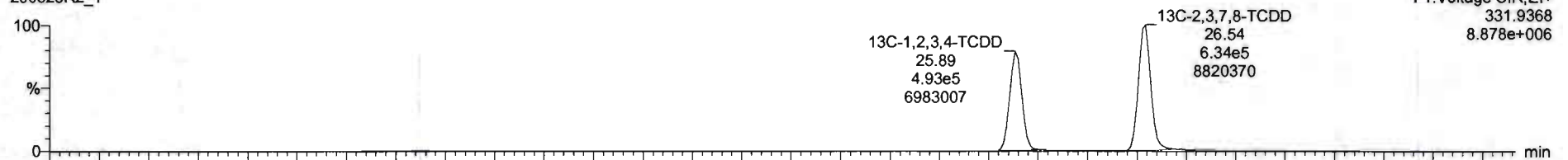


200528R2_1

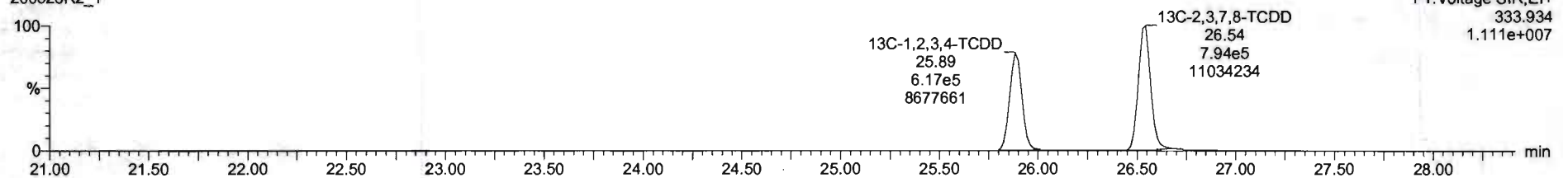


13C-2,3,7,8-TCDD

200528R2_1



200528R2_1



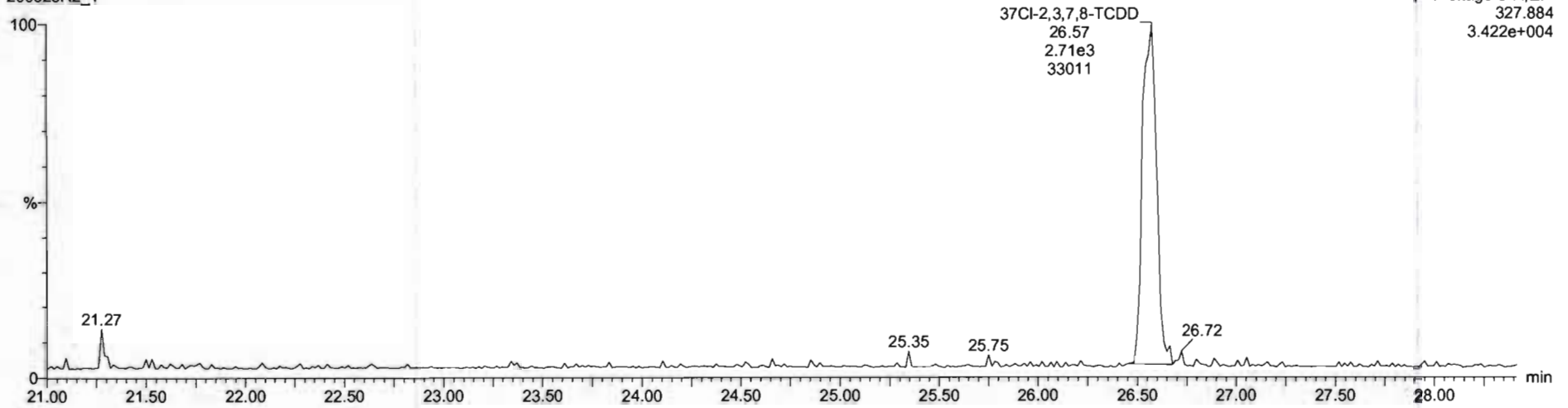
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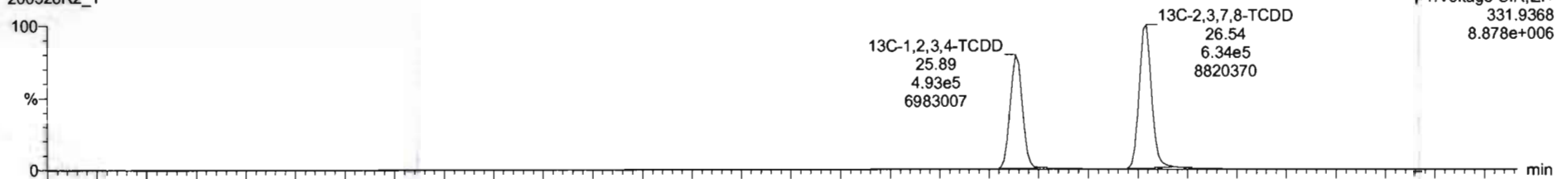
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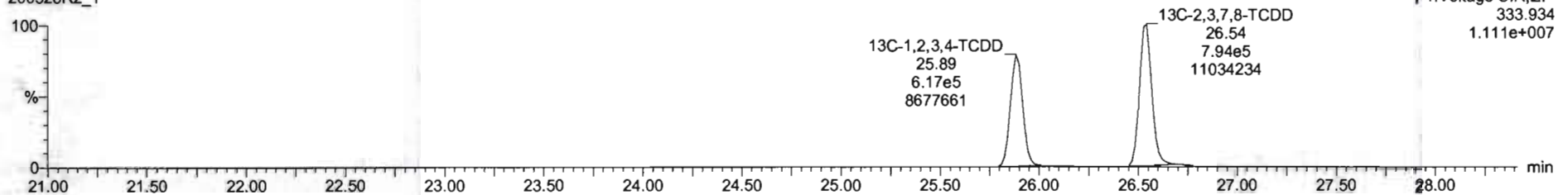


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200528R2_1



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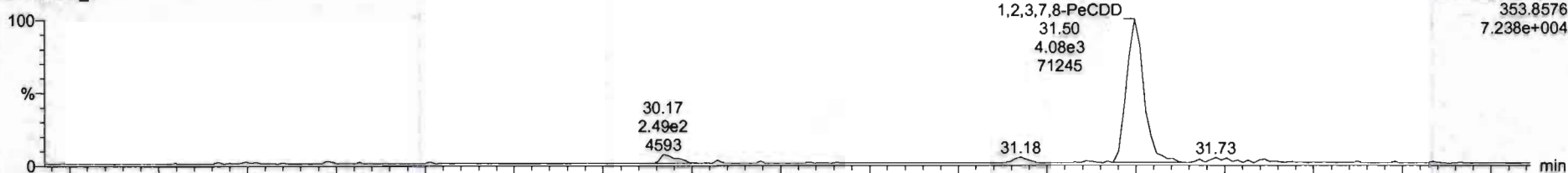
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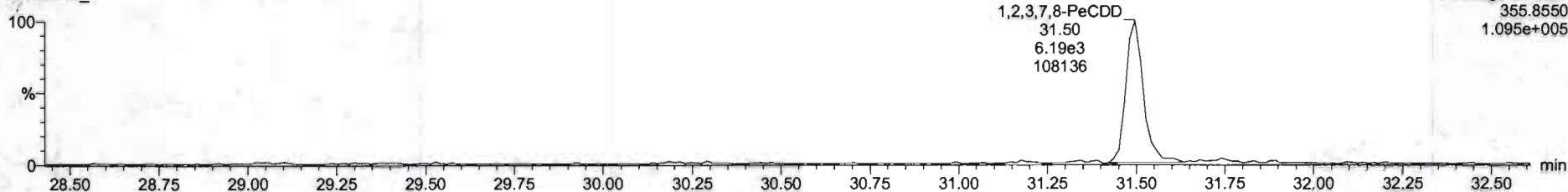
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1,2,3,7,8-PeCDD

200528R2_1

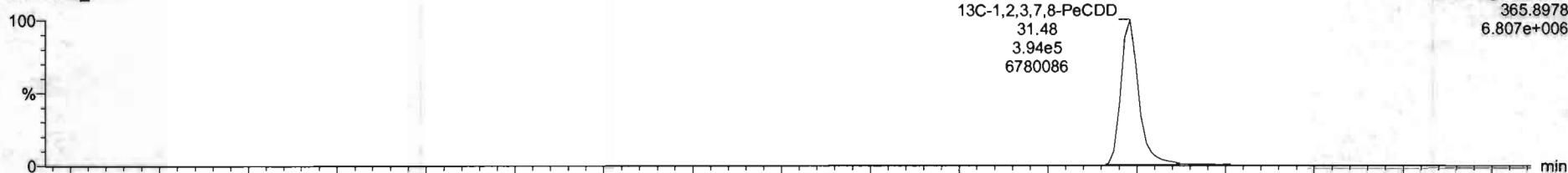


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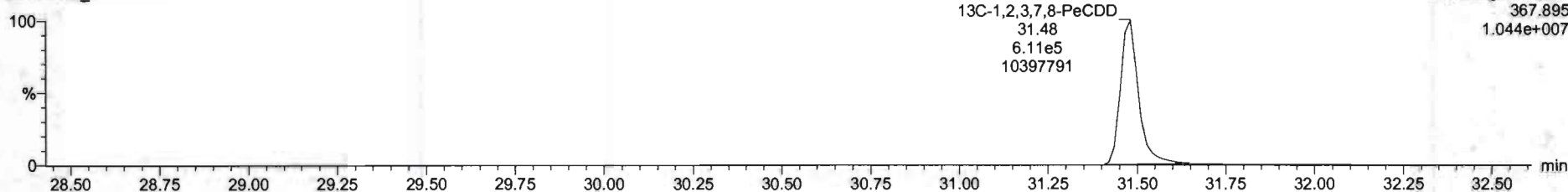


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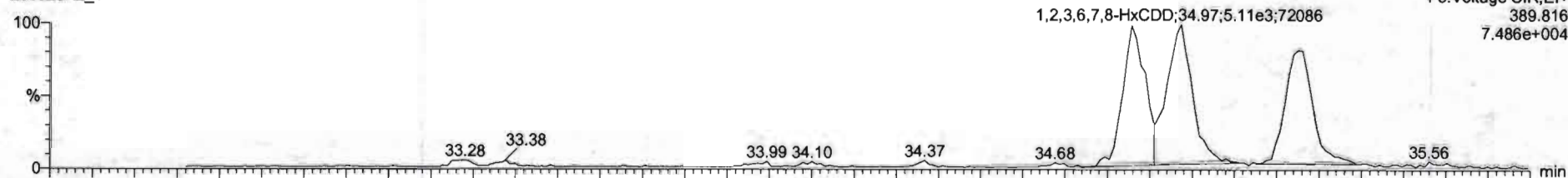
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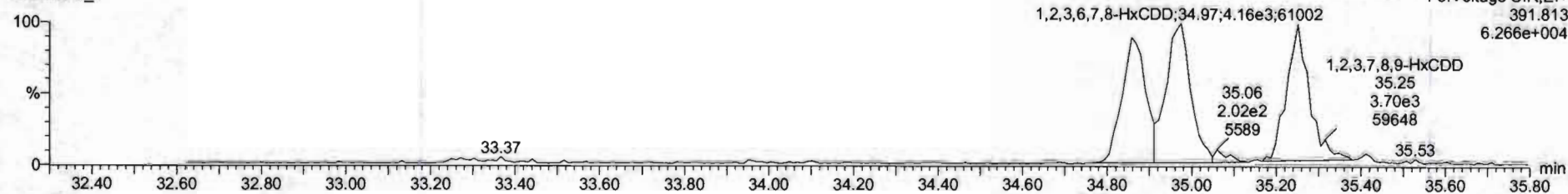
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1,2,3,4,7,8-HxCDD

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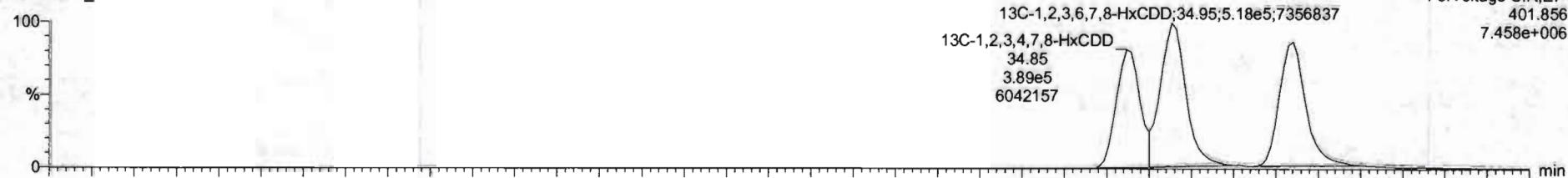


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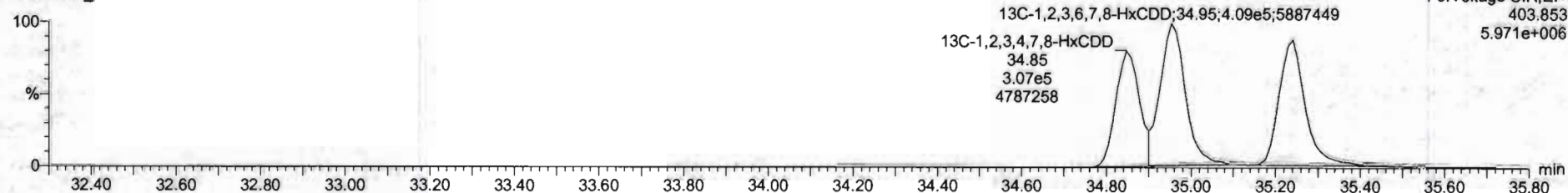


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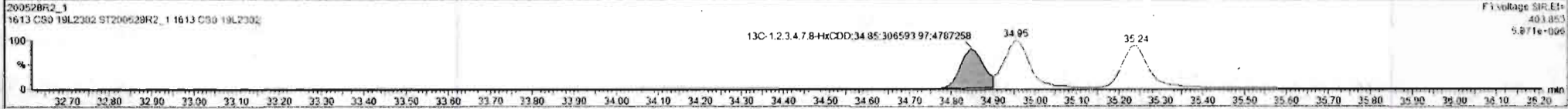
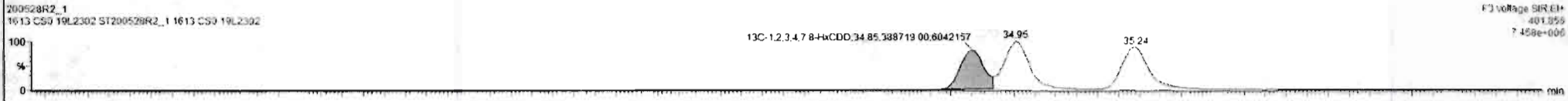
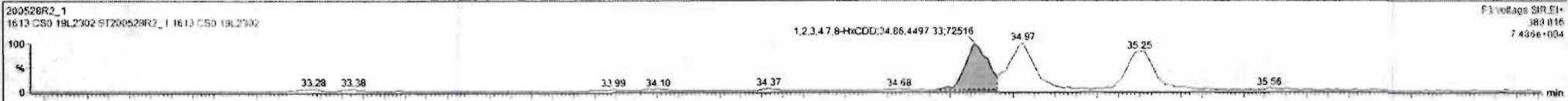
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200528R2_1



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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	1.06e6	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	



Custom Reporting: Select reports to generate

200528R2_1

CAP NUM

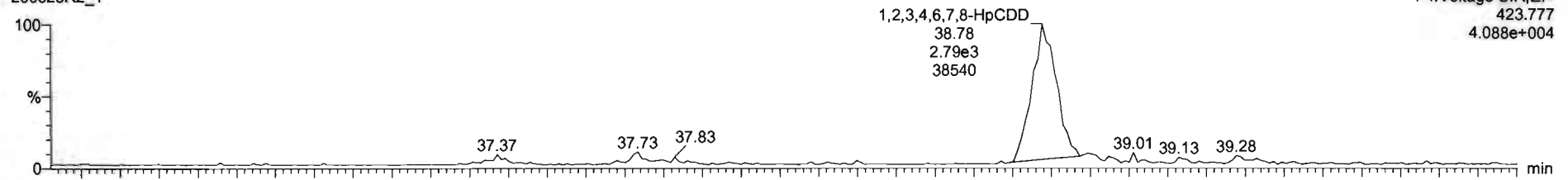
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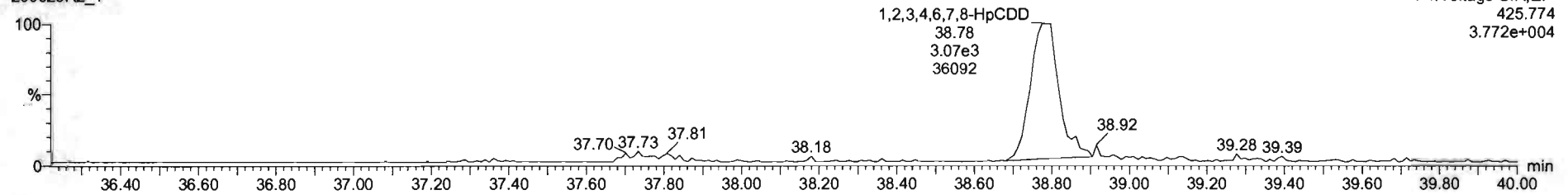
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1,2,3,4,6,7,8-HpCDD

200528R2_1

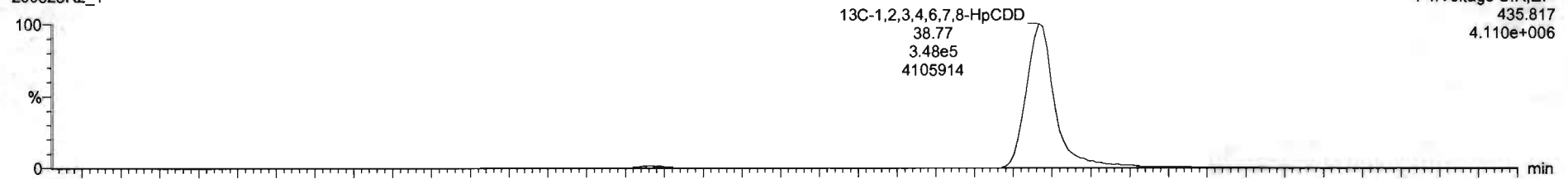


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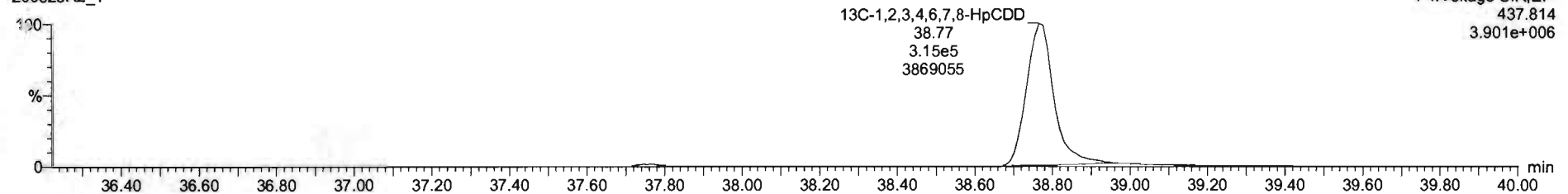


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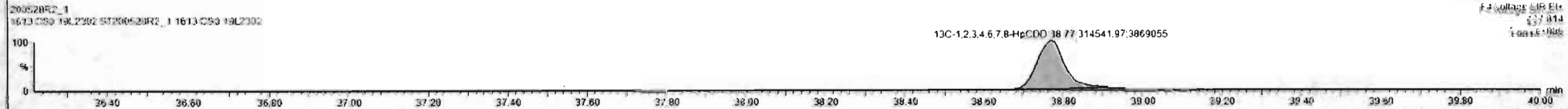
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200528R2_1



SI	Name	Reap	RA	nty	RRF	wtdvol	RT	RRT	Conc.	%Rec	DL	EMPC
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	88.2	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	

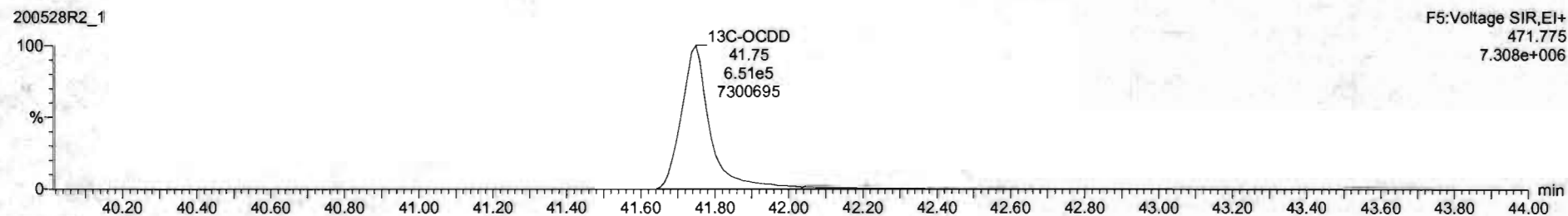
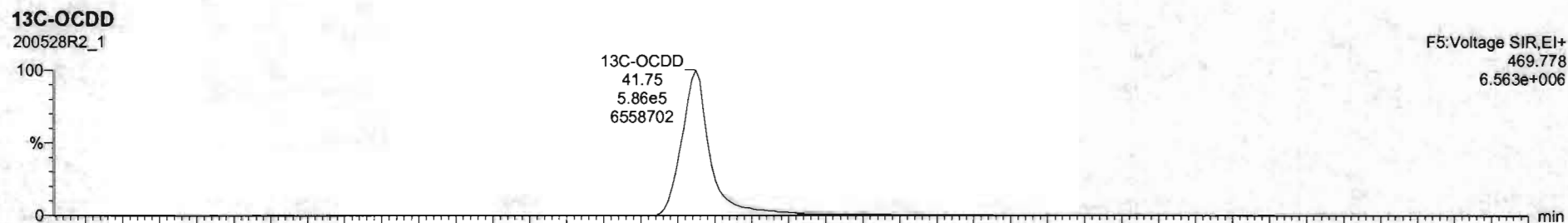
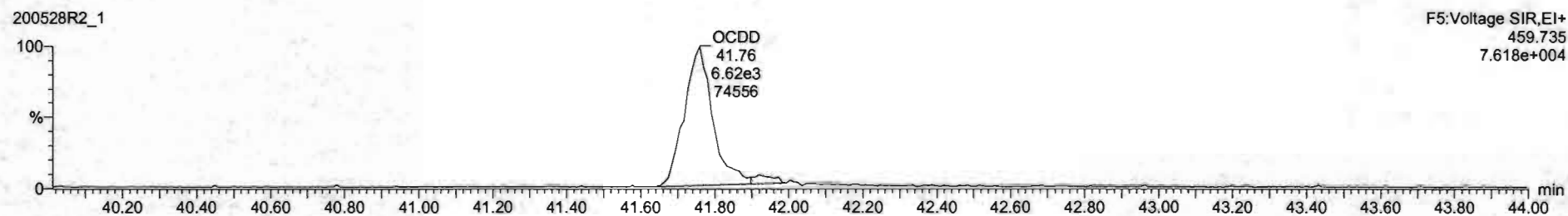
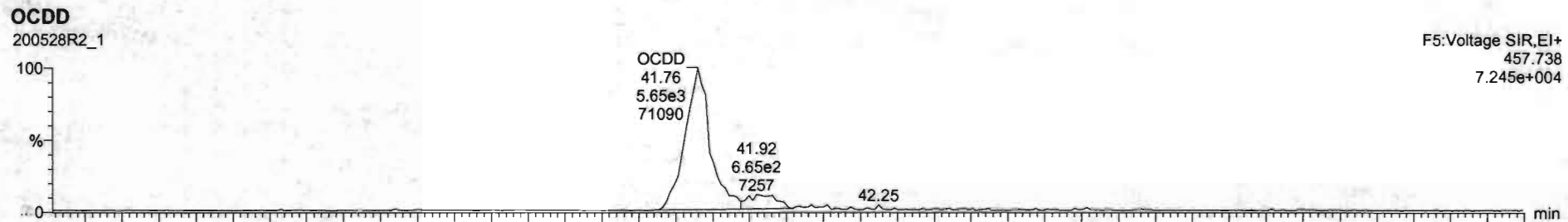


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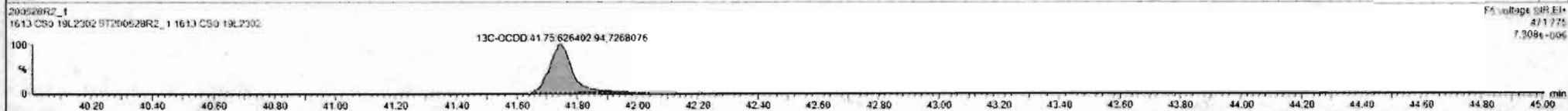
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#	Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8863	1.000	26.54	1.000	0.212	85.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	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	1.08
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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200528R2_1

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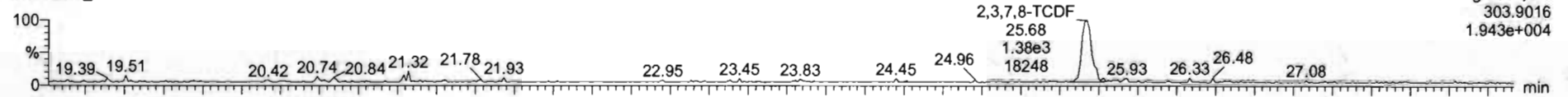
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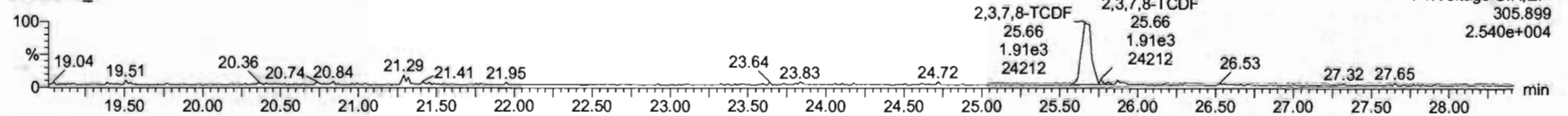
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2,3,7,8-TCDF

200528R2_1

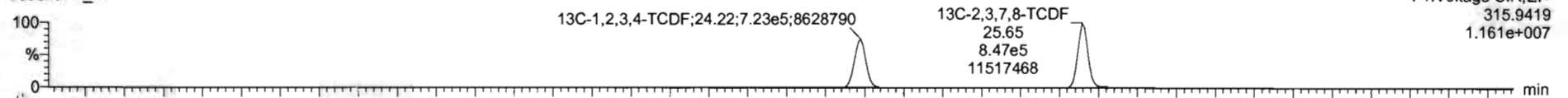


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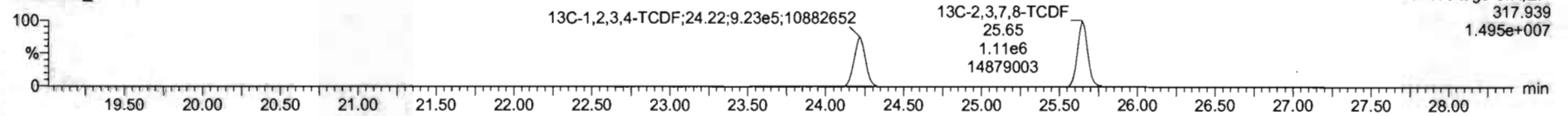


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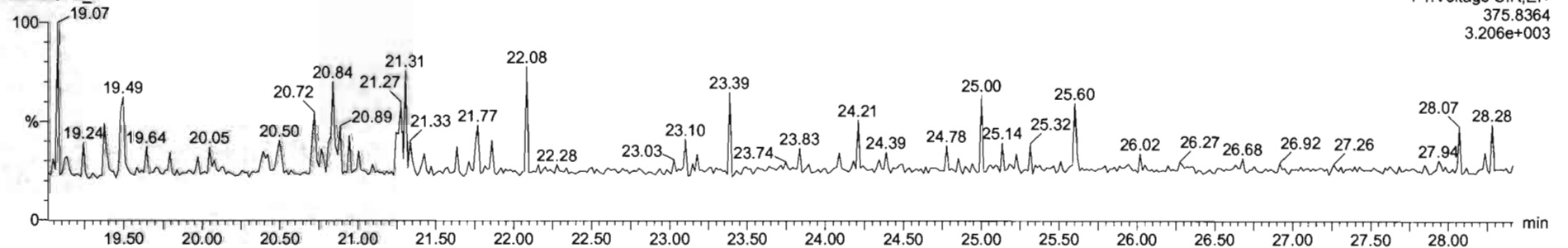


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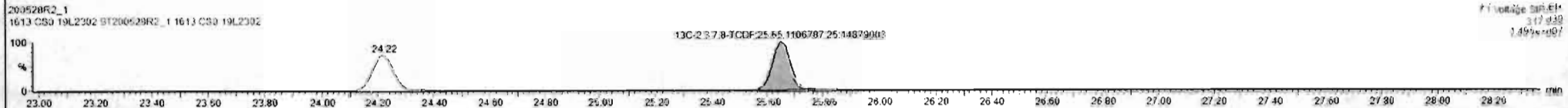
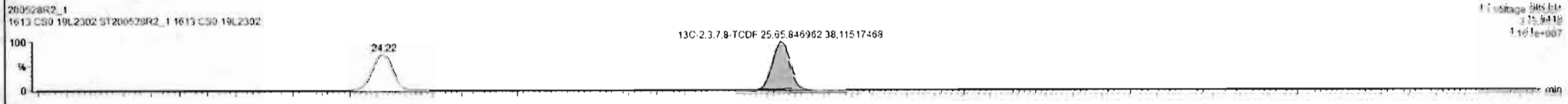
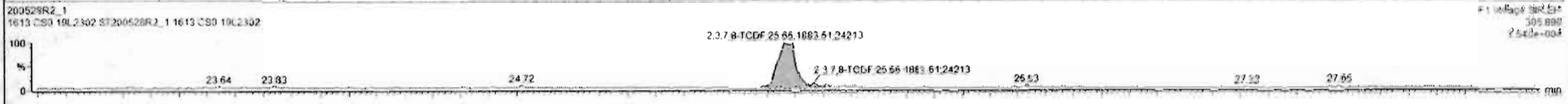
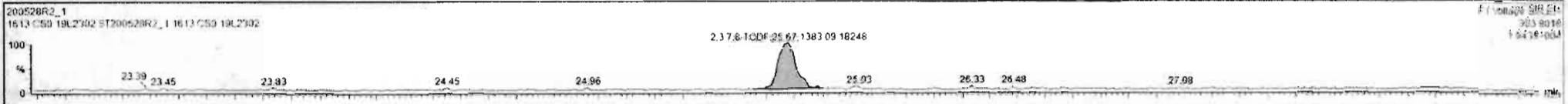


DPE1

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	1.000	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	8.95e3	1.25	NO	0.8845	1.000	33.99	1.001	1.00	86.2	0.0369	1.00
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	0.99	NO	1.0126	1.000	39.33	1.001	1.02	61.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8085	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

7:54 AM

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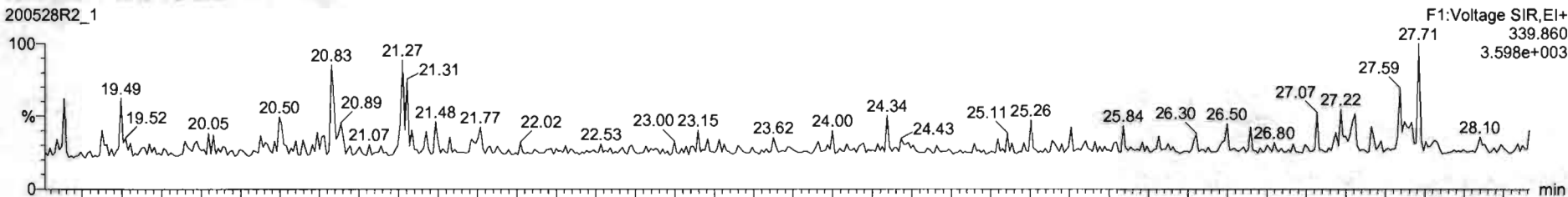
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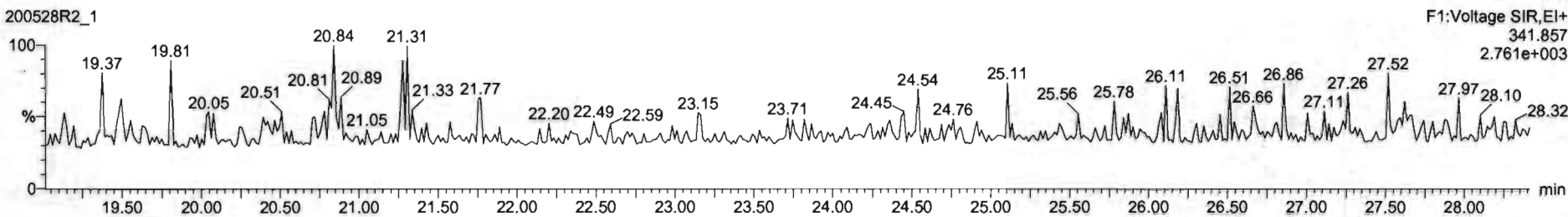
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200528R2_1

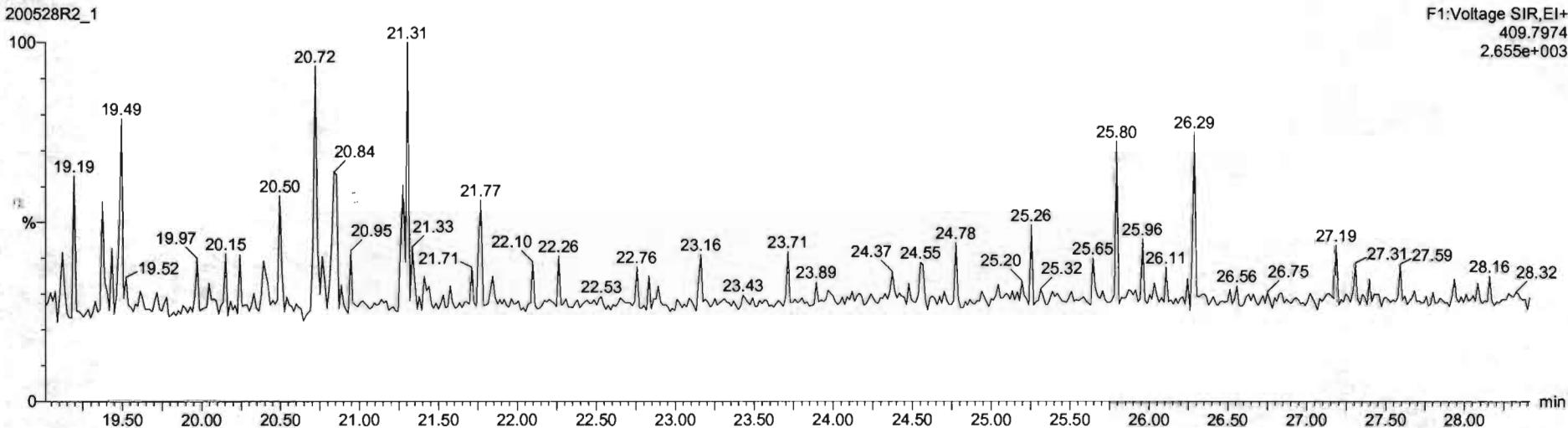


200528R2_1



DPE6

200528R2_1



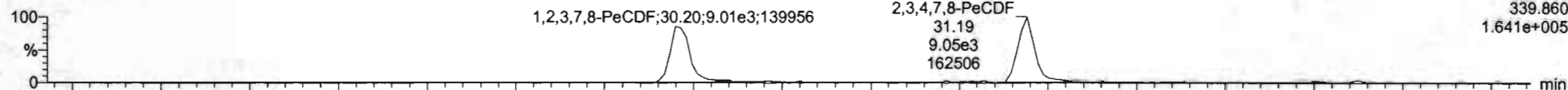
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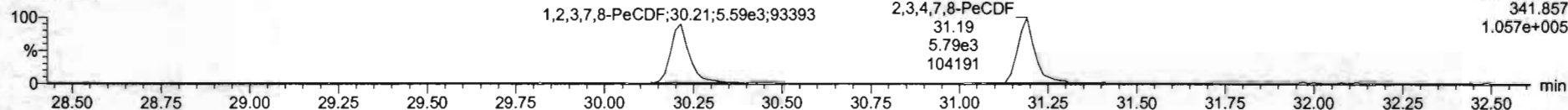
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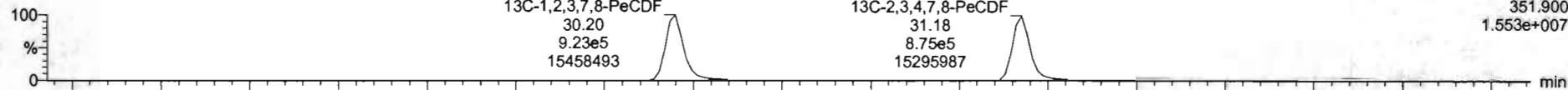


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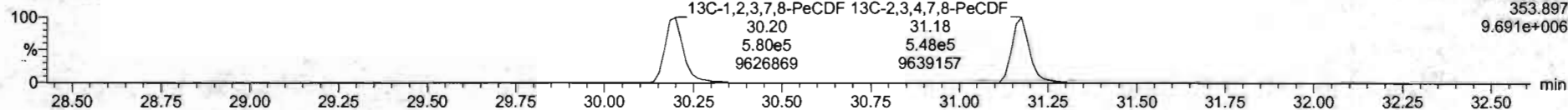


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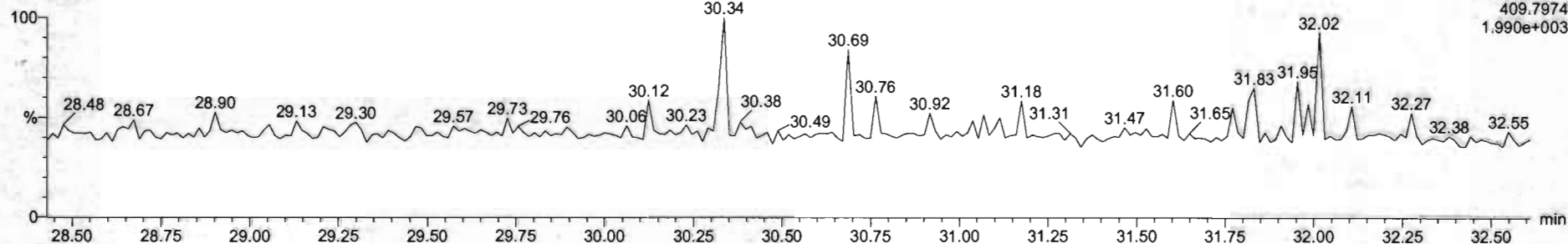


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DPE2

200528R2_1



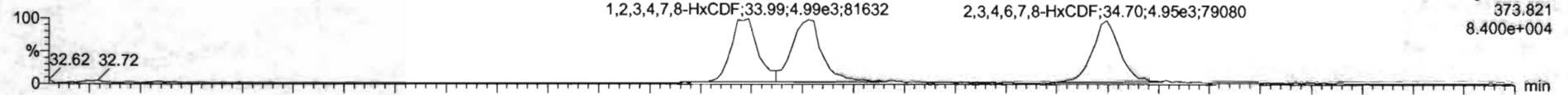
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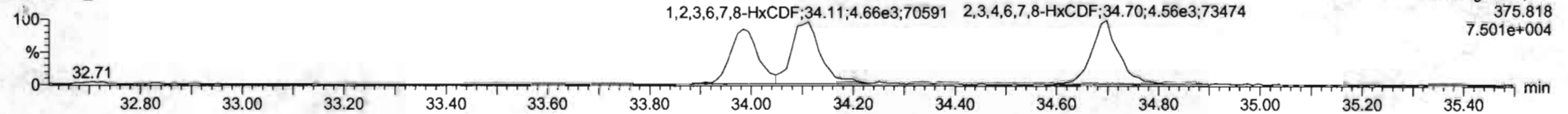
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F3:Voltage SIR,EI+
373.821
8.400e+004

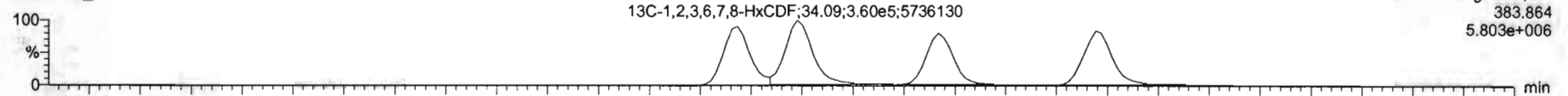
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F3:Voltage SIR,EI+
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7.501e+004

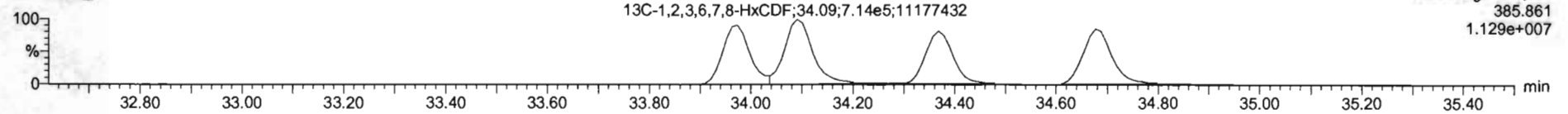
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200528R2_1



F3:Voltage SIR,EI+
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5.803e+006

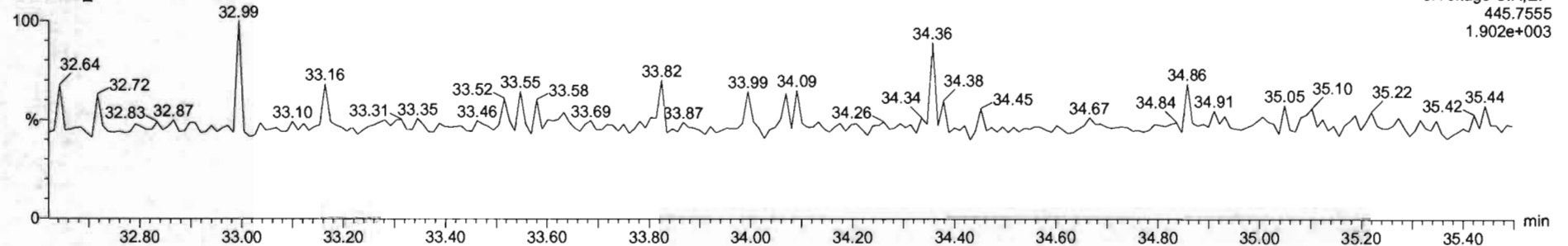
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F3:Voltage SIR,EI+
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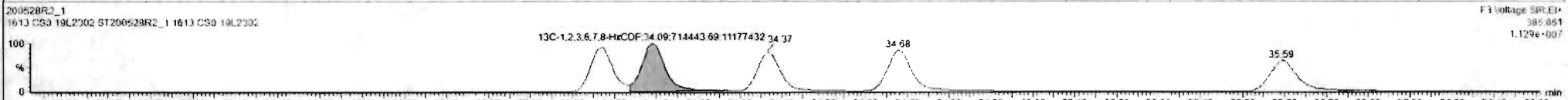
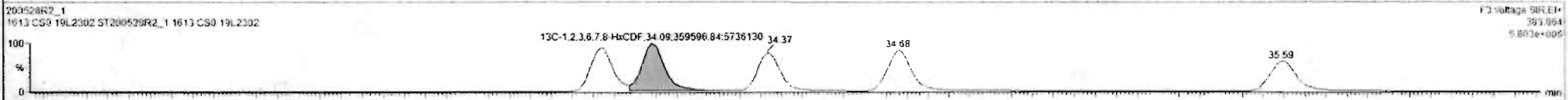
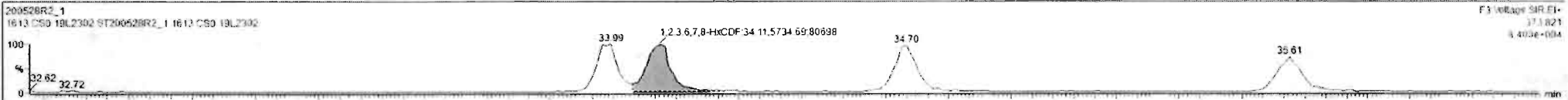
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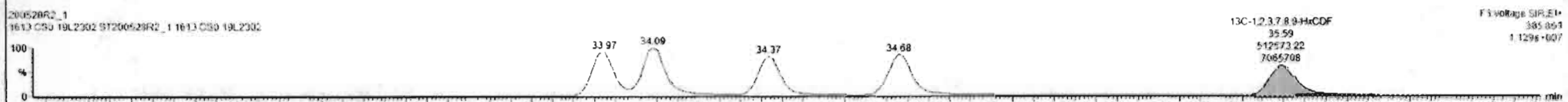
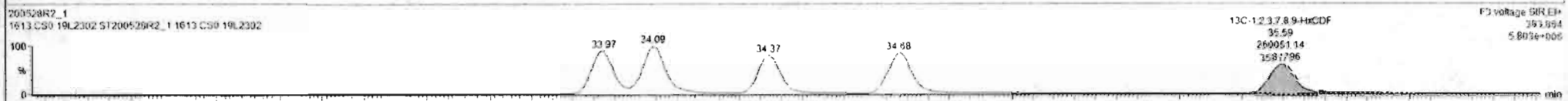


F3:Voltage SIR,EI+
445.7555
1.902e+003

Name	Resp	RA	inj	RRF	wVvol	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	1.61	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	5.56e3	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	61.6	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	0.30	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	



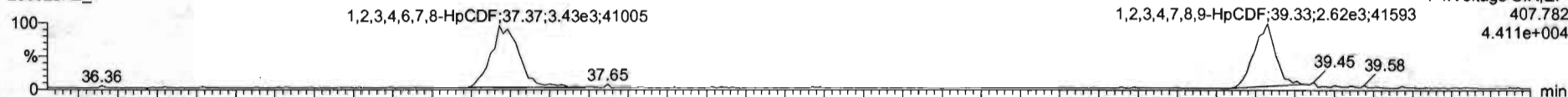
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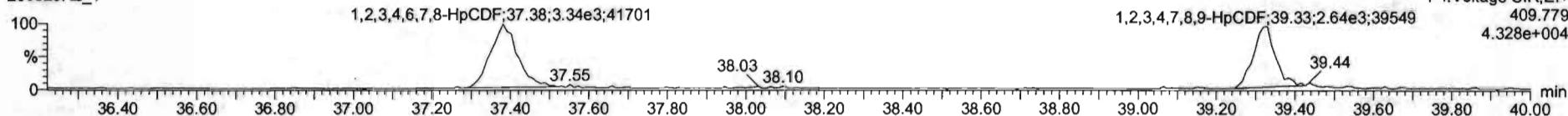
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200528R2_1



F4: Voltage SIR, EI+
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4.411e+004

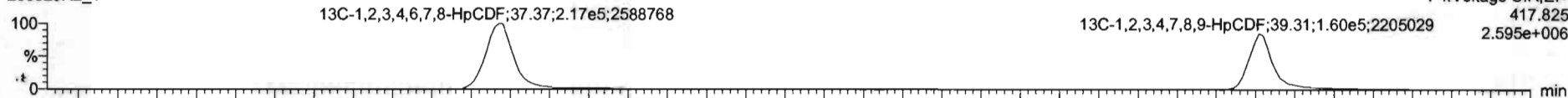
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F4: Voltage SIR, EI+
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4.328e+004

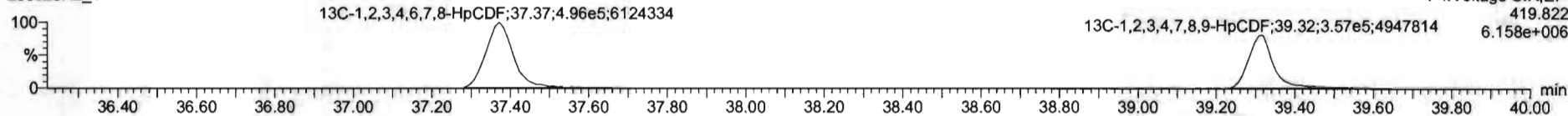
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F4: Voltage SIR, EI+
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2.595e+006

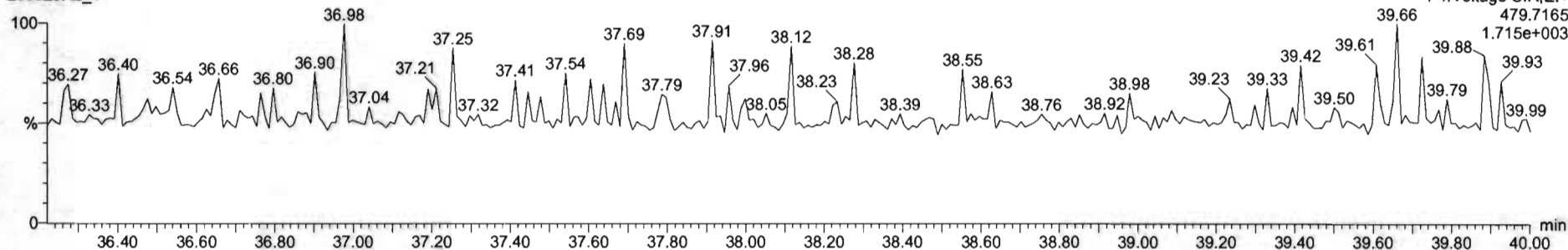
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F4: Voltage SIR, EI+
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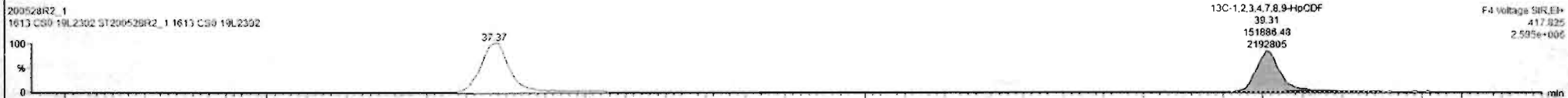
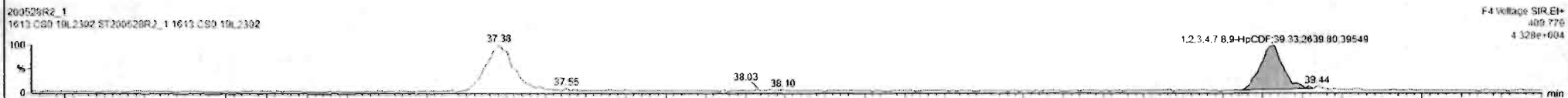
CPE4

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F4: Voltage SIR, EI+
479.7165
1.715e+003

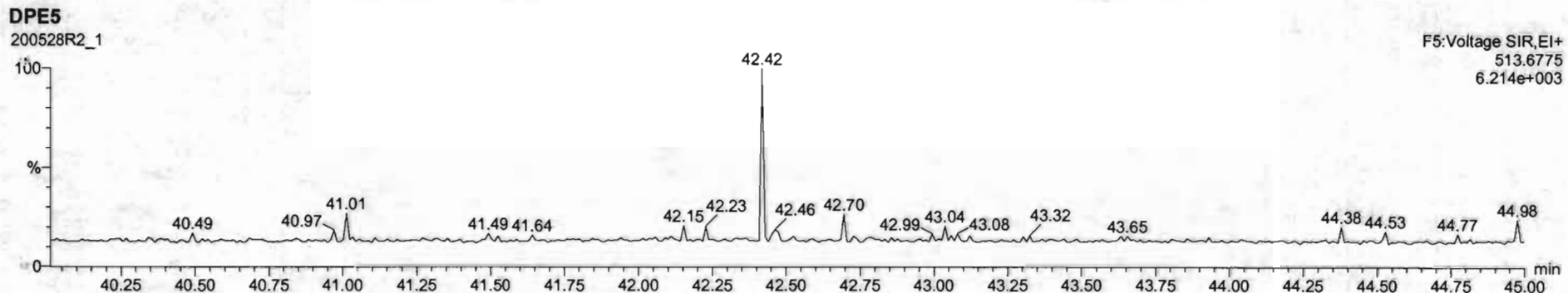
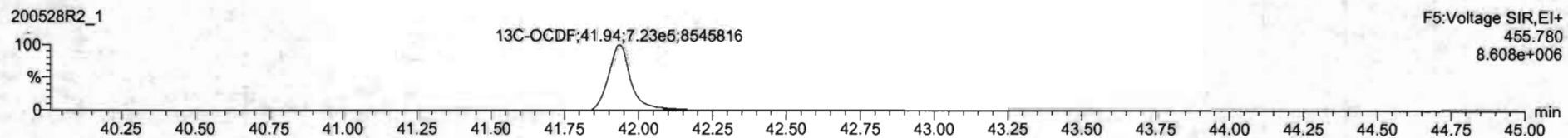
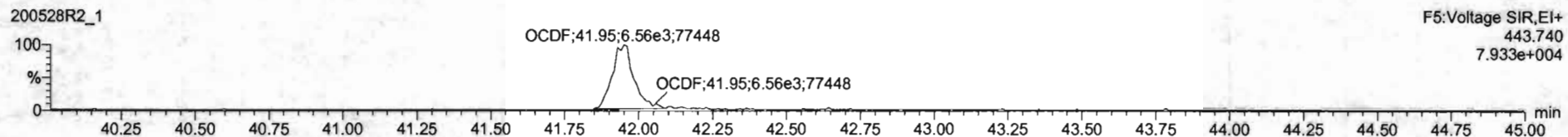
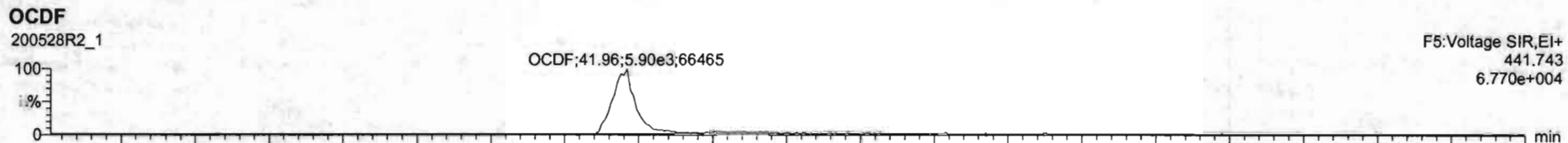
Name	Reap	RA	nBy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.79e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	8.02e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	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 1,2,3,4,7,8-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	0.8852	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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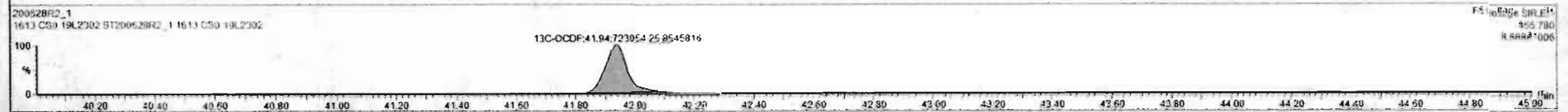
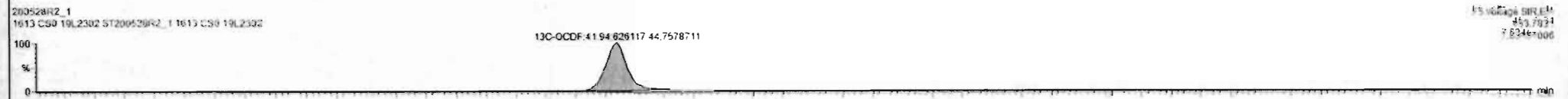
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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200528R2_1 1613 CS0 19L2302-1613 CS0 19L2302

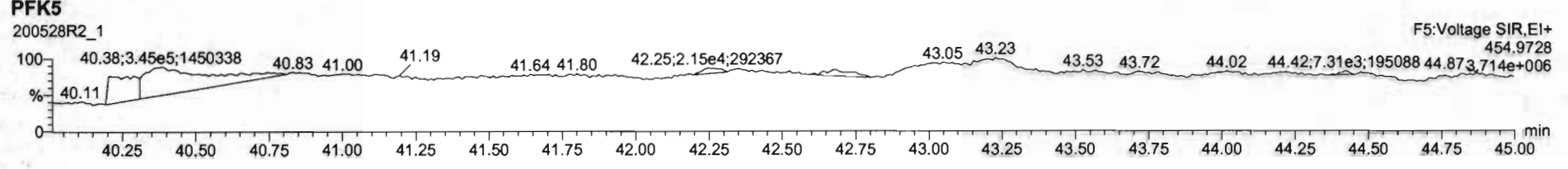
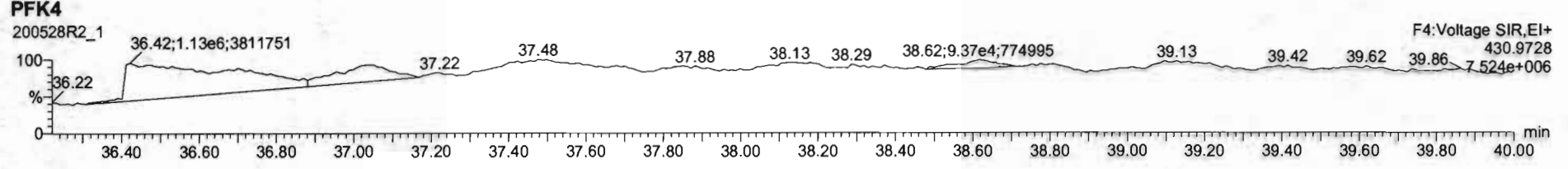
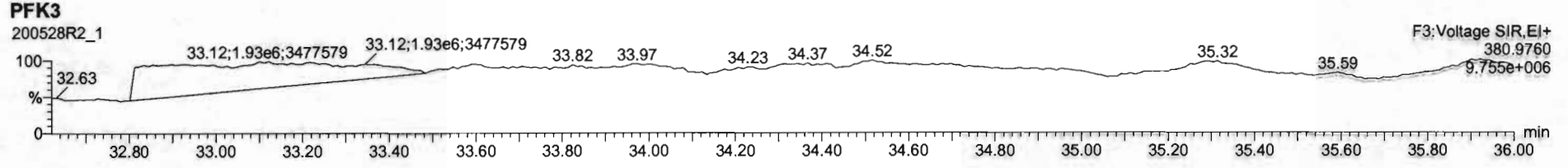
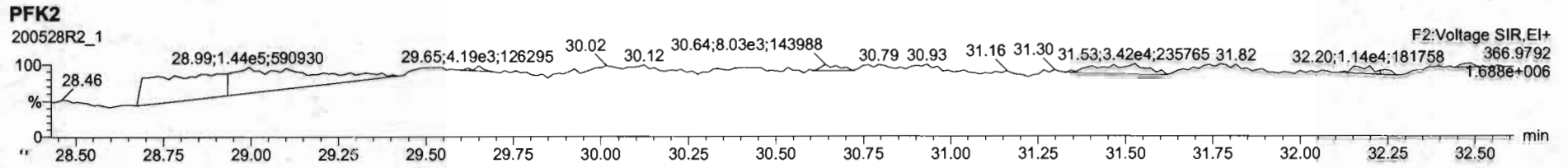
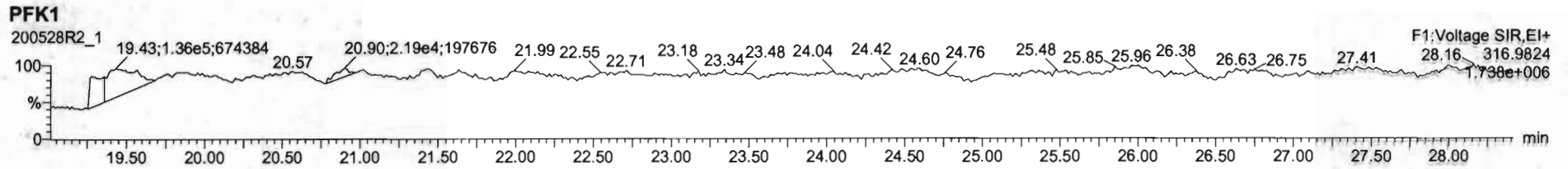
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2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9041	1.000	31.60	1.000	1.12	90.0	0.0202	1.12
3	1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	89.4	0.042E	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.9523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	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	89.2	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	0.8707	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	



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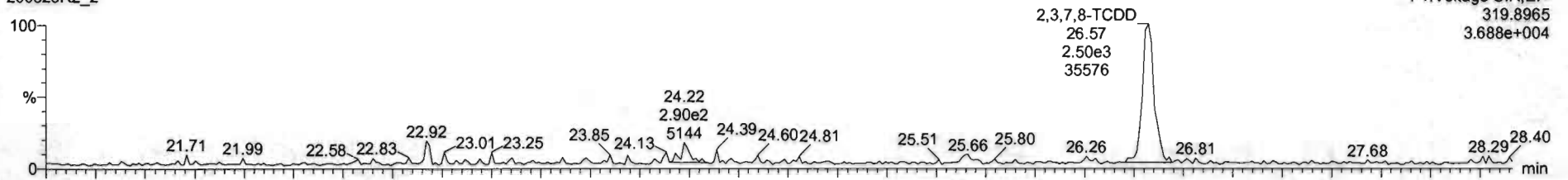
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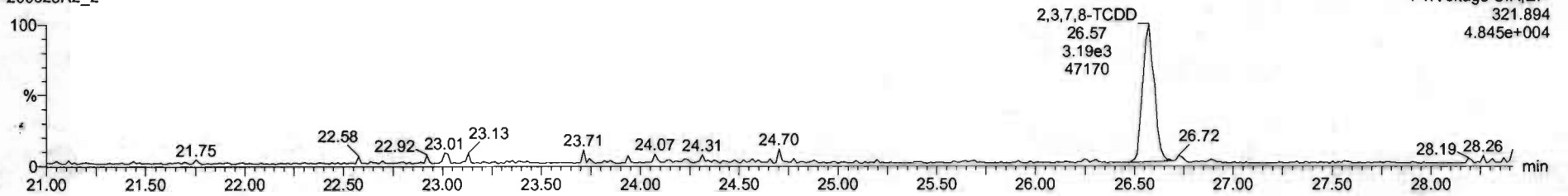
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2,3,7,8-TCDD

200528R2_2

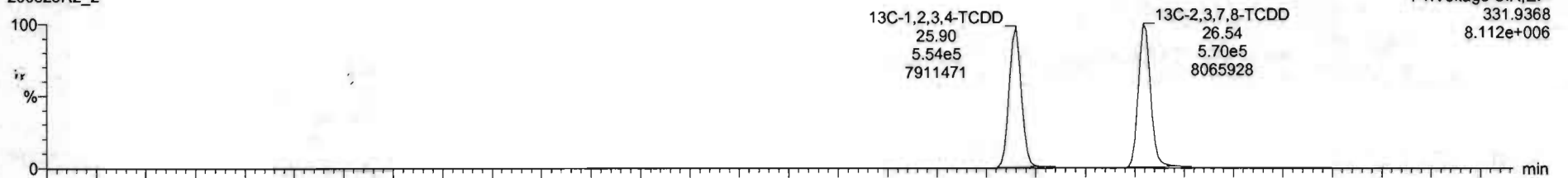


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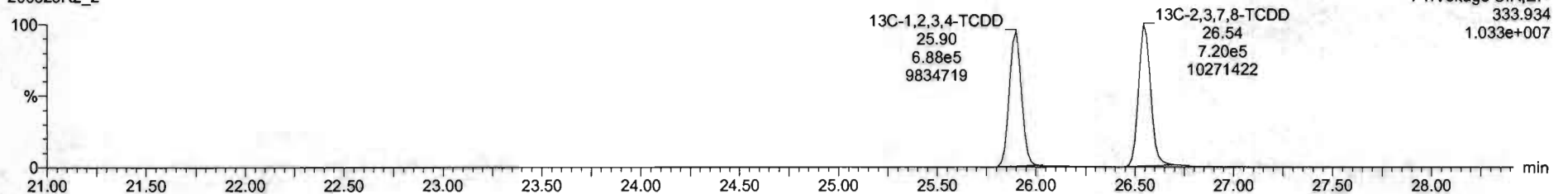


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200528R2_2



200528R2_2



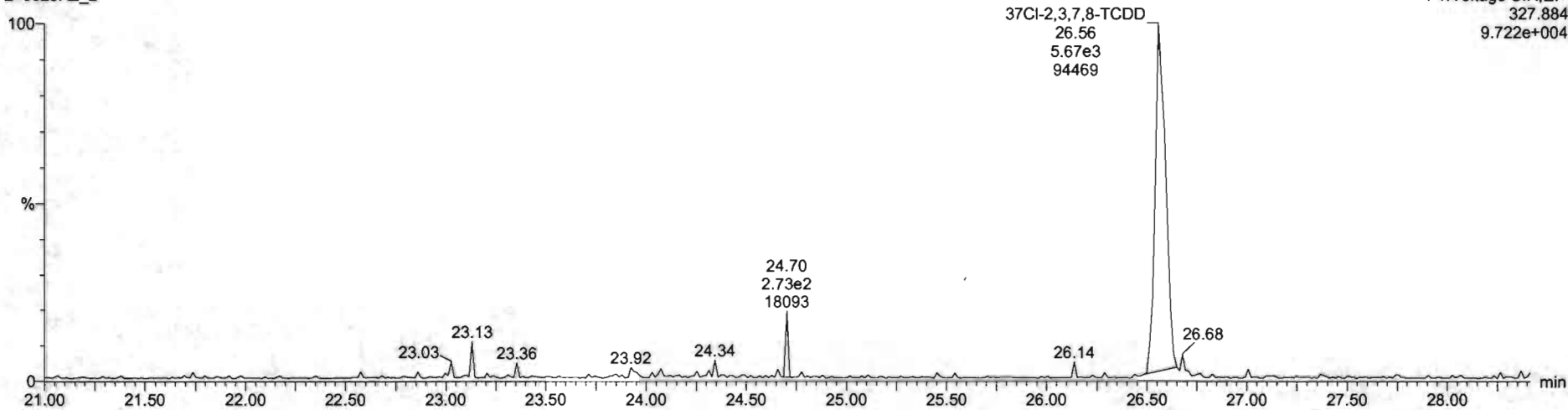
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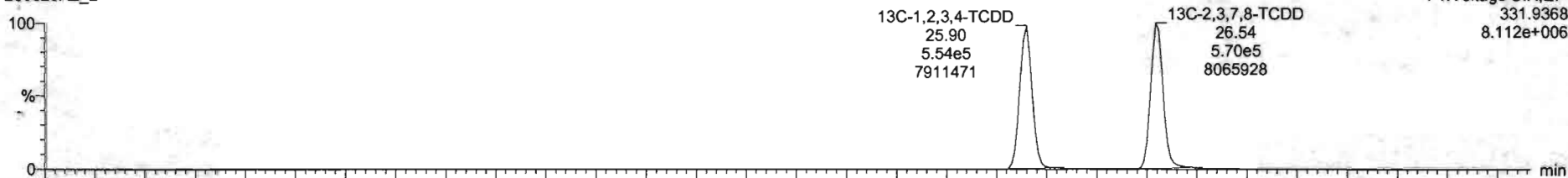
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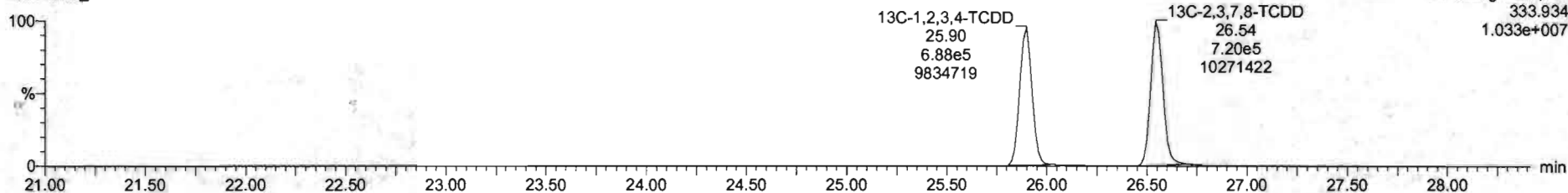


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200528R2_2



200528R2_2



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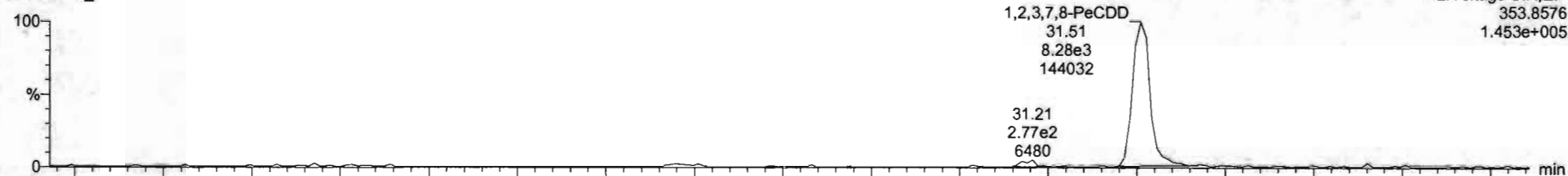
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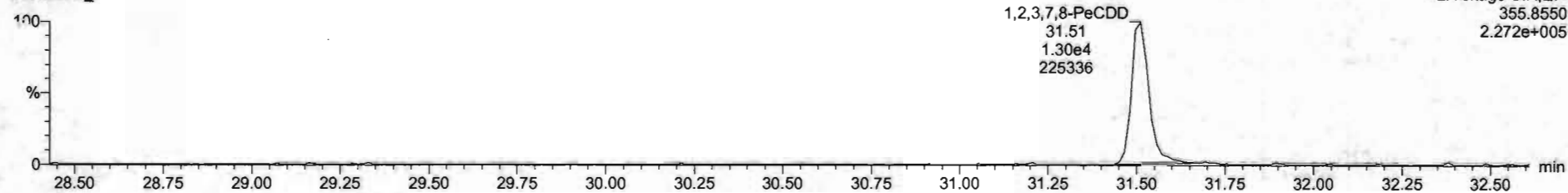
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1,2,3,7,8-PeCDD

200528R2_2

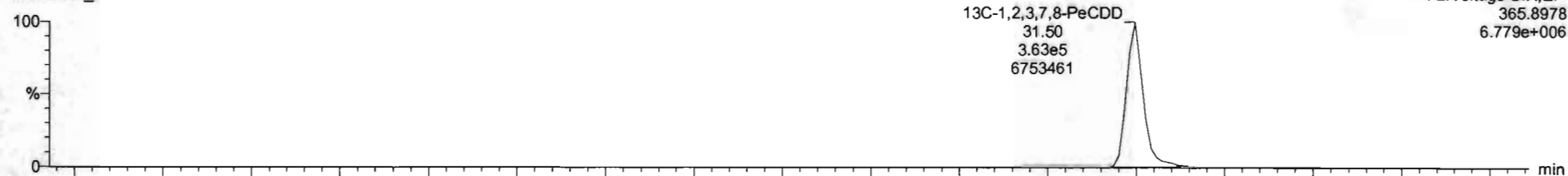


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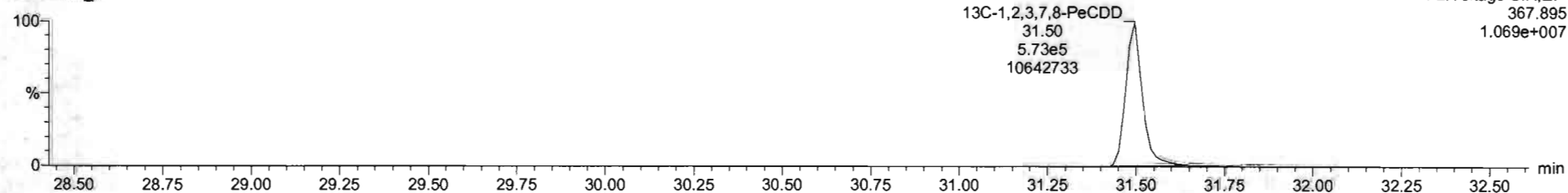


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200528R2_2



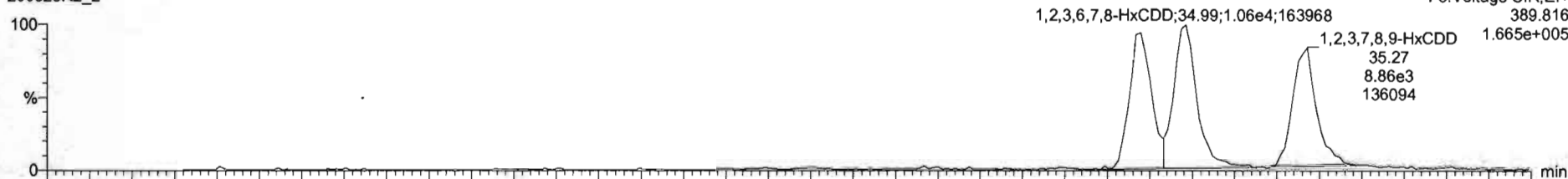
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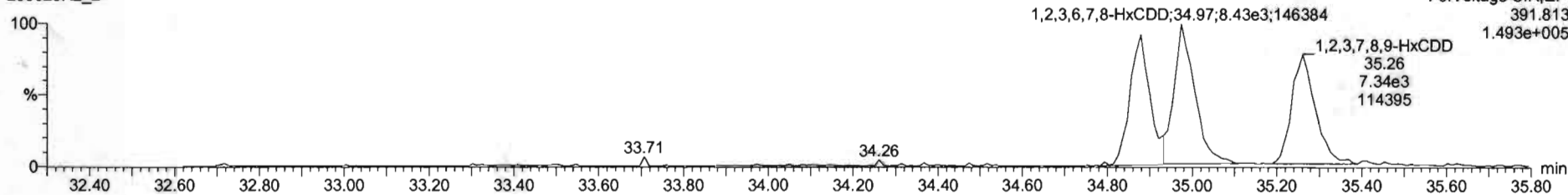
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1,2,3,4,7,8-HxCDD

200528R2_2

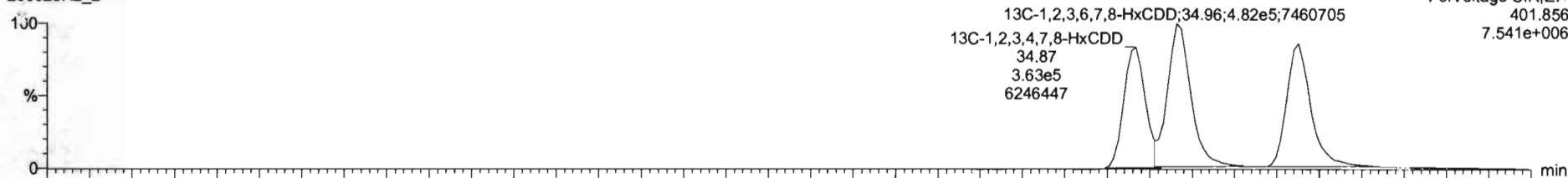


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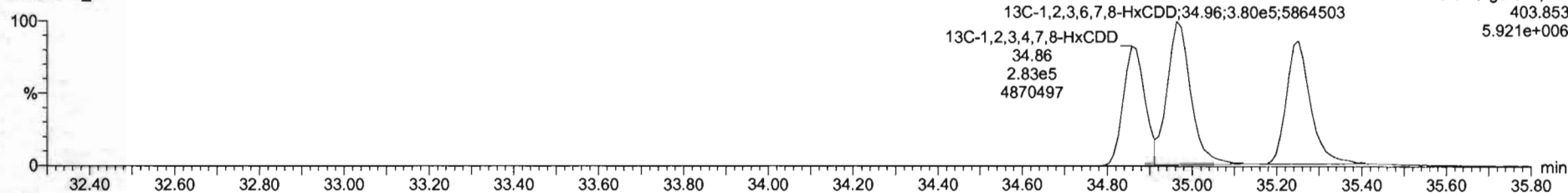


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200528R2_2



200528R2_2



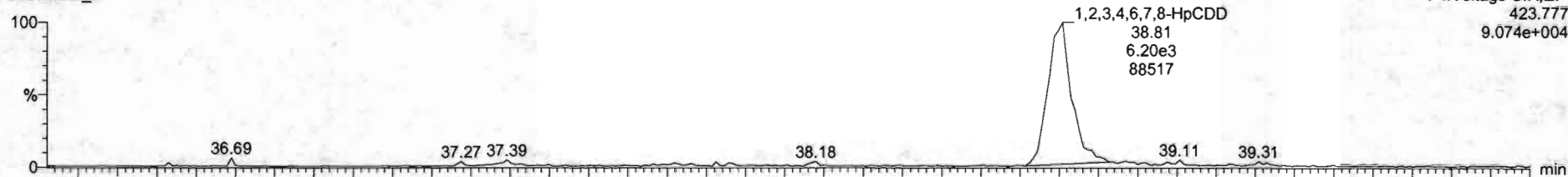
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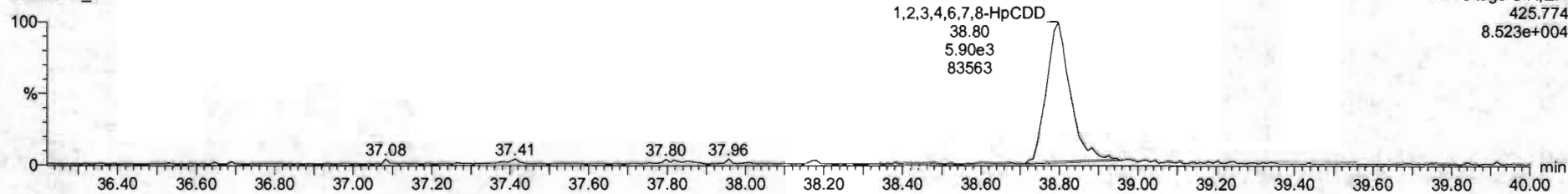
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1,2,3,4,6,7,8-HpCDD

200528R2_2

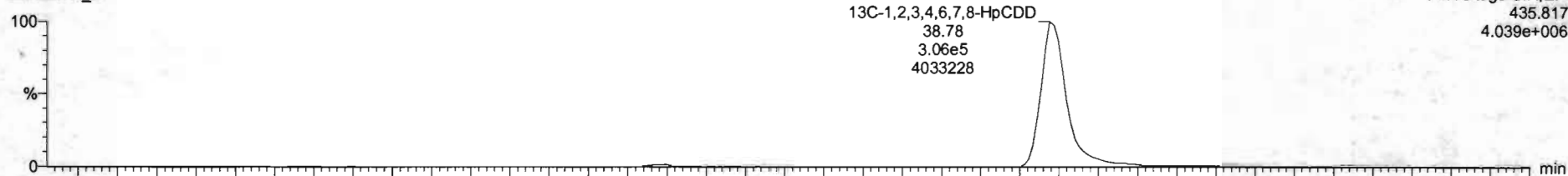


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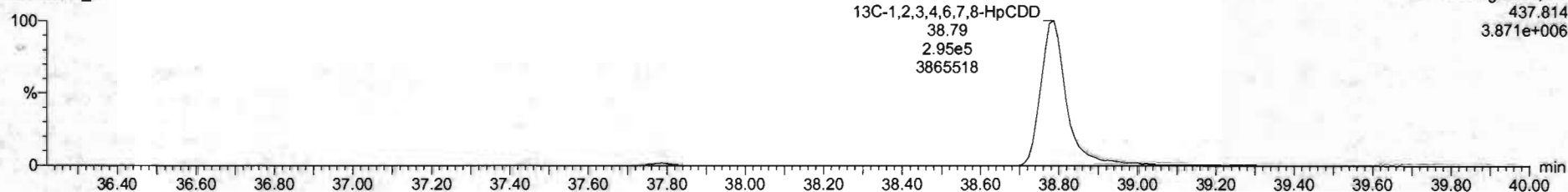


13C-1,2,3,4,6,7,8-HpCDD

200528R2_2



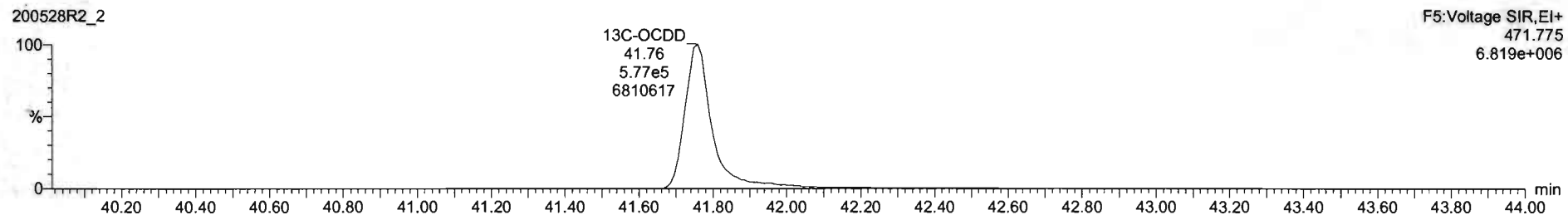
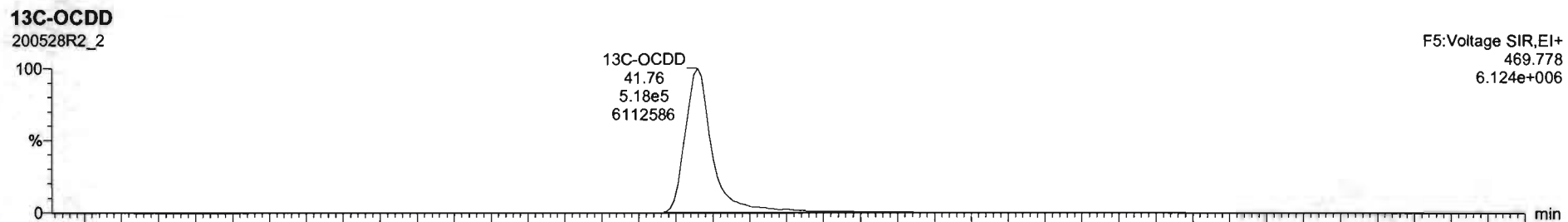
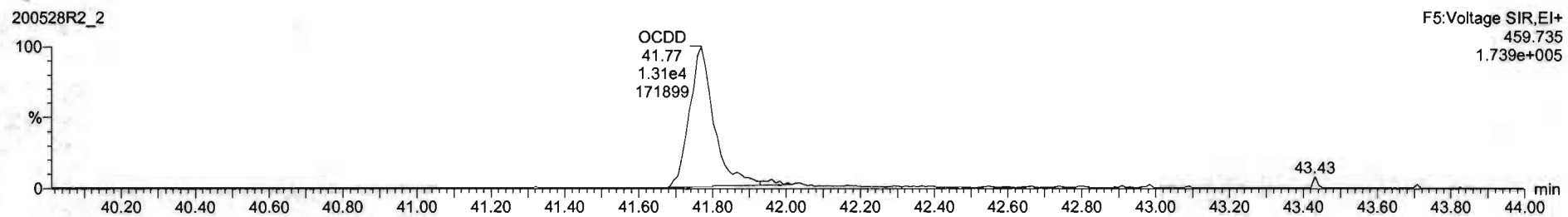
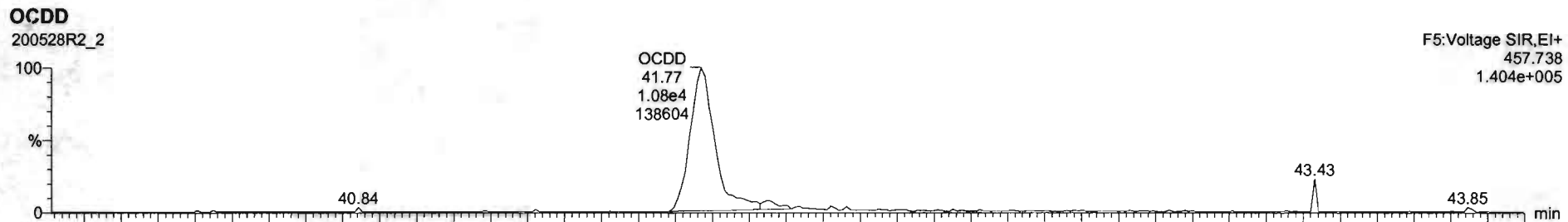
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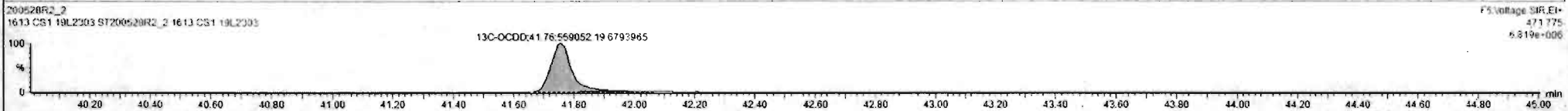
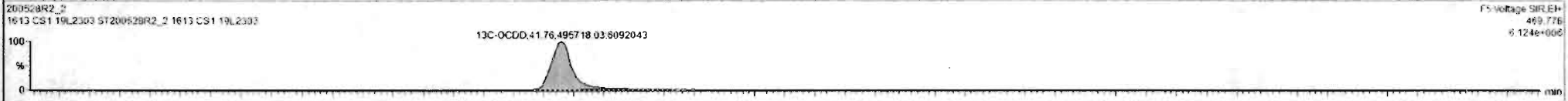
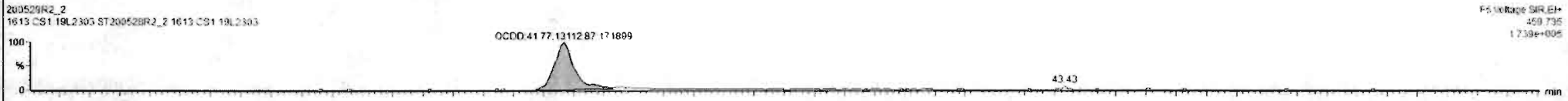
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Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



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	96.3	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	6.61e5	1.27	NO	1.0187	1.000	34.95	1.017	87.7	87.7	0.140	

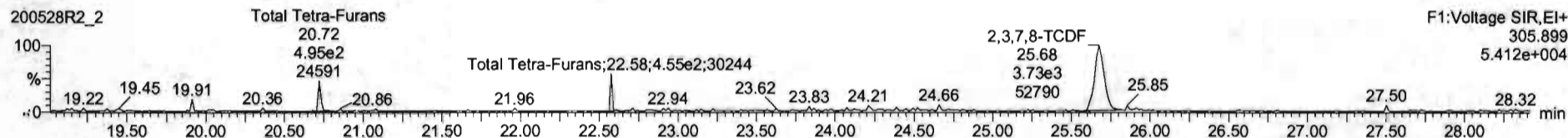
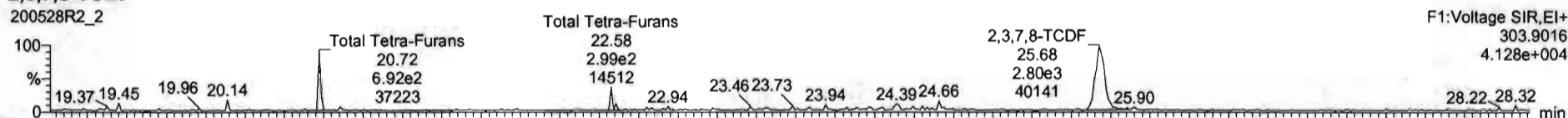


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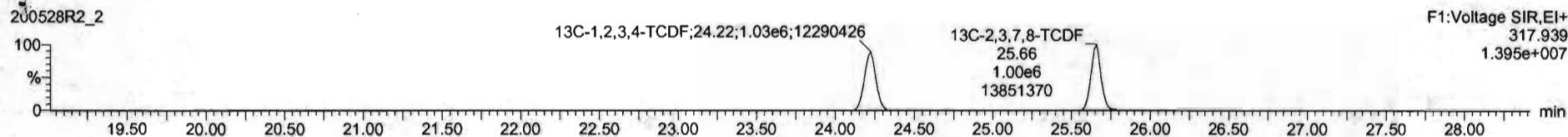
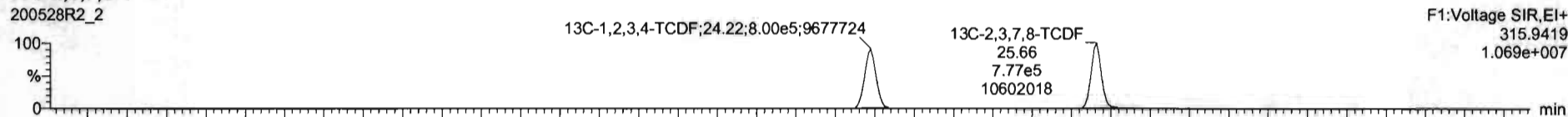
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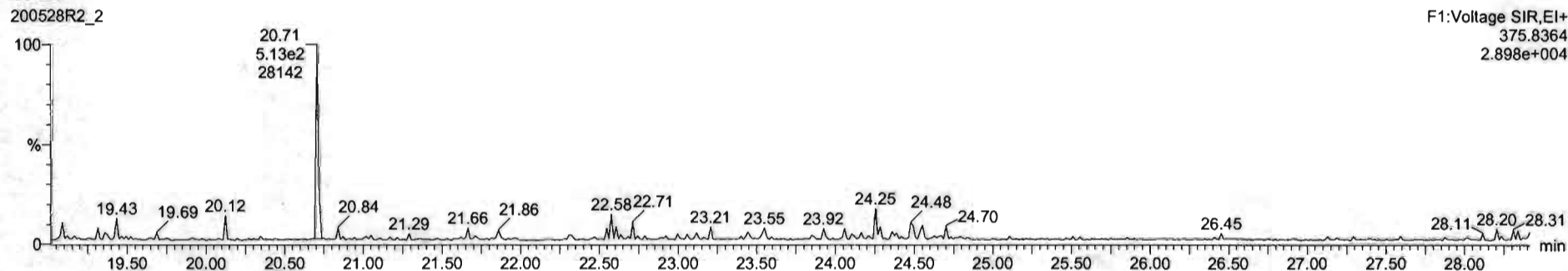
2,3,7,8-TCDF



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



DPE1



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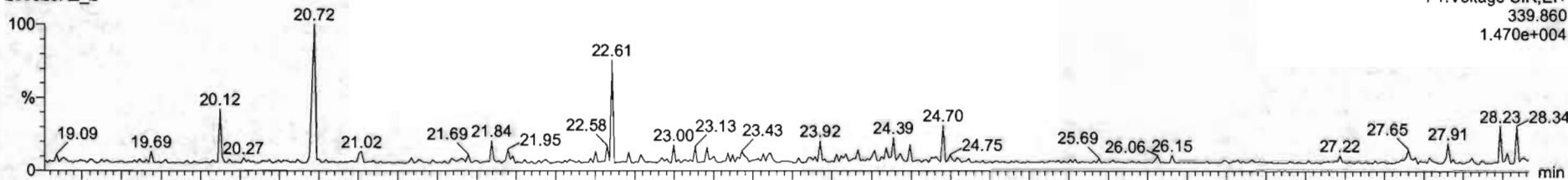
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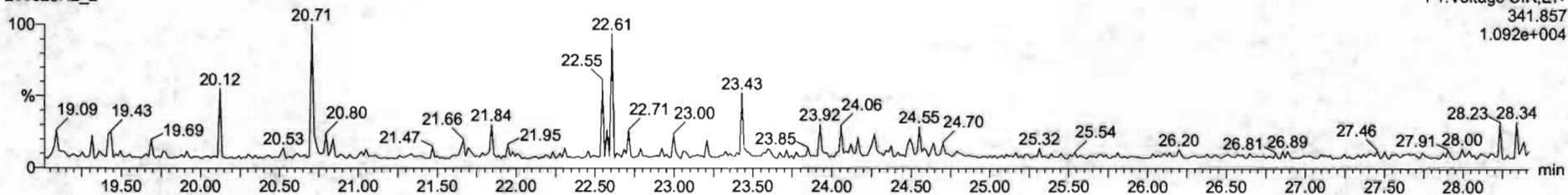
200528R2_2

F1:Voltage SIR,EI+
339.860
1.470e+004



200528R2_2

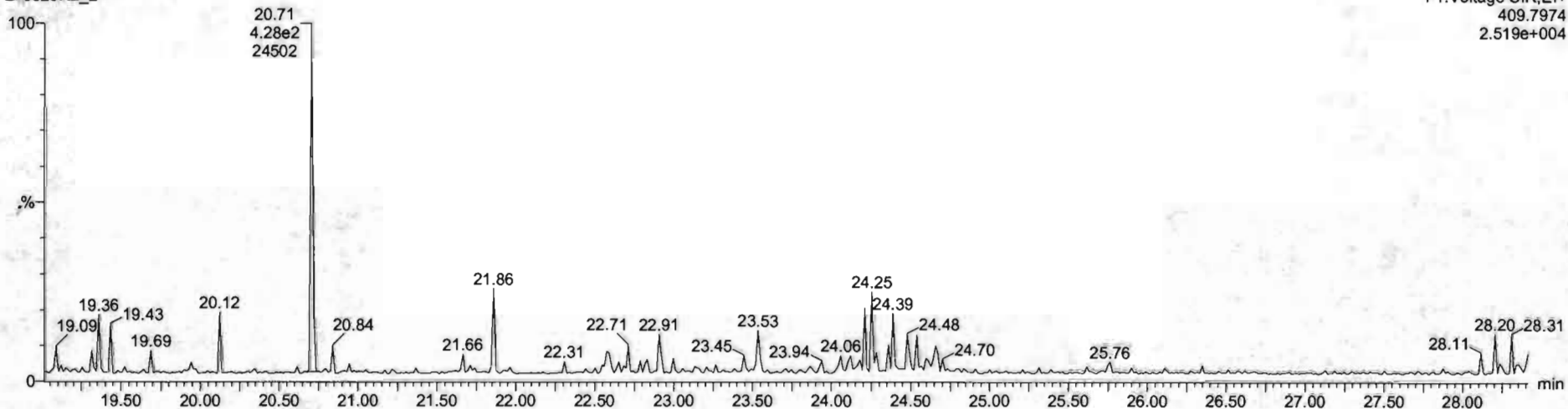
F1:Voltage SIR,EI+
341.857
1.092e+004



DPE6

200528R2_2

F1:Voltage SIR,EI+
409.7974
2.519e+004



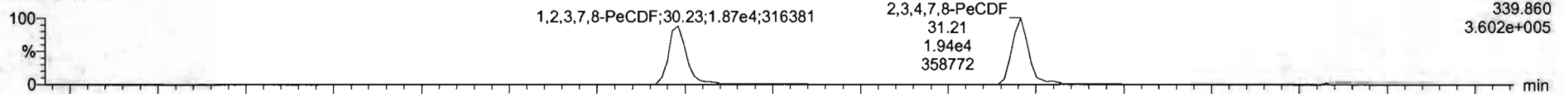
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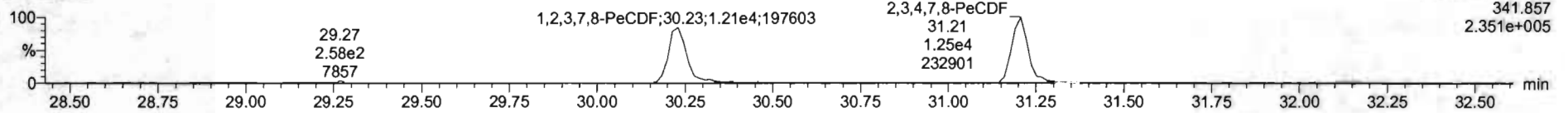
1,2,3,7,8-PeCDF

200528R2_2



F2:Voltage SIR,EI+
339.860
3.602e+005

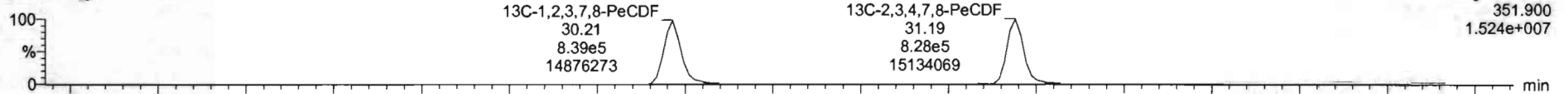
200528R2_2



F2:Voltage SIR,EI+
341.857
2.351e+005

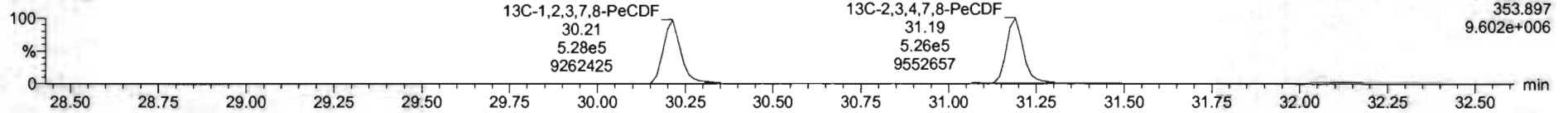
13C-1,2,3,7,8-PeCDF

200528R2_2



F2:Voltage SIR,EI+
351.900
1.524e+007

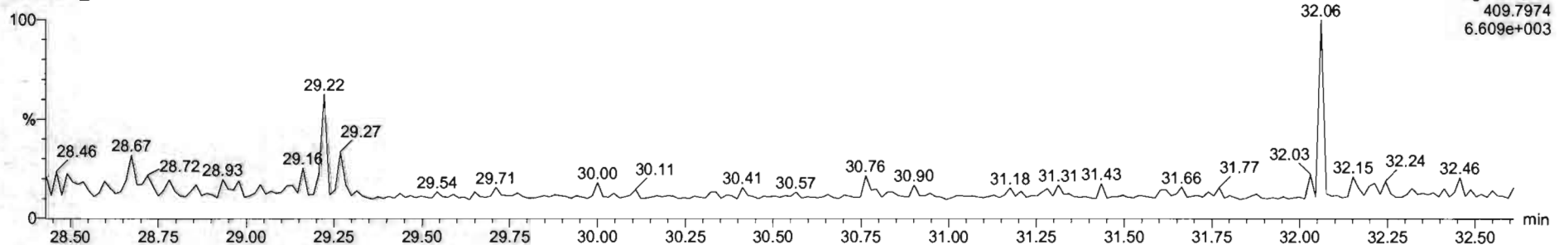
200528R2_2



F2:Voltage SIR,EI+
353.897
9.602e+006

DPE2

200528R2_2



F2:Voltage SIR,EI+
409.7974
6.609e+003

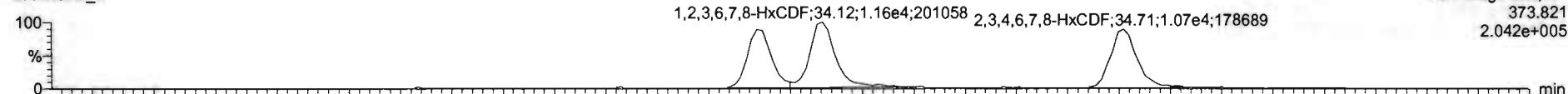
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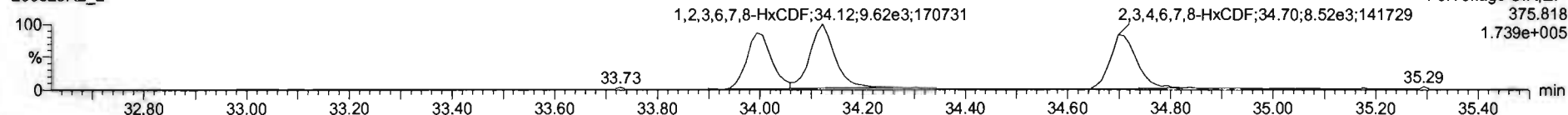
1,2,3,4,7,8-HxCDF

200528R2_2



F3: Voltage SIR, EI+
373.821
2.042e+005

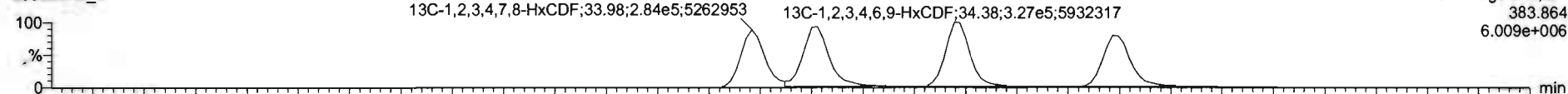
200528R2_2



F3: Voltage SIR, EI+
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1.739e+005

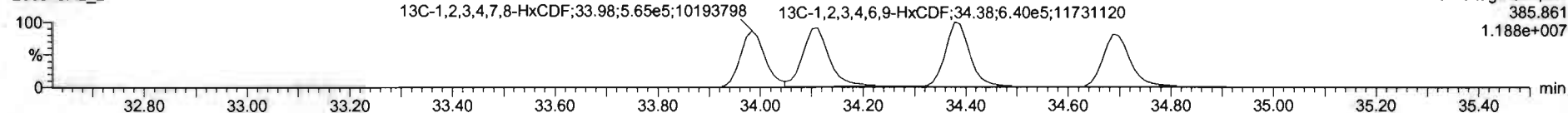
13C-1,2,3,4,7,8-HxCDF

200528R2_2



F3: Voltage SIR, EI+
383.864
6.009e+006

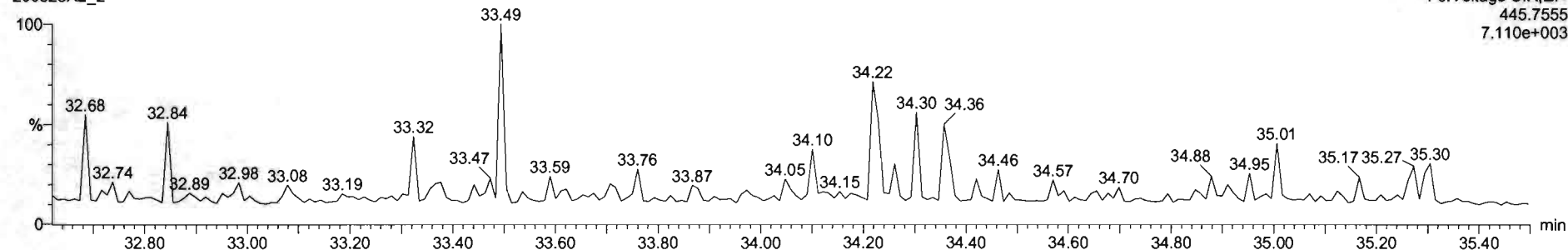
200528R2_2



F3: Voltage SIR, EI+
385.861
1.188e+007

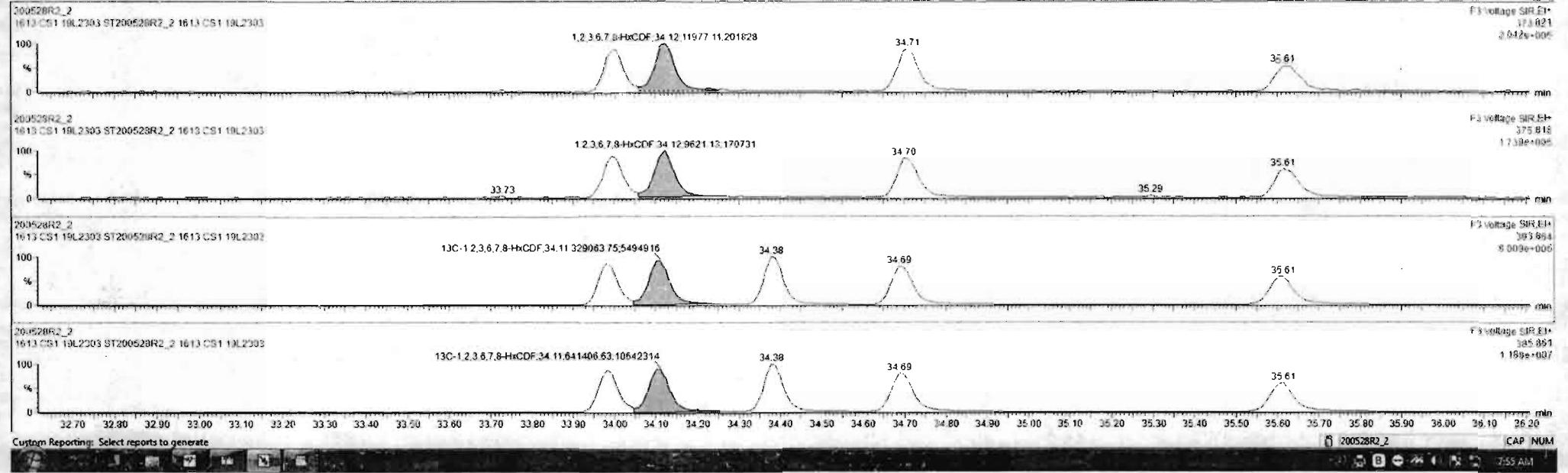
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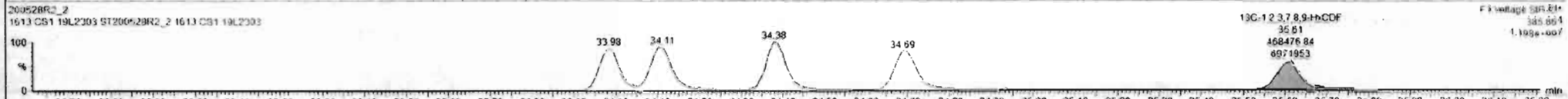
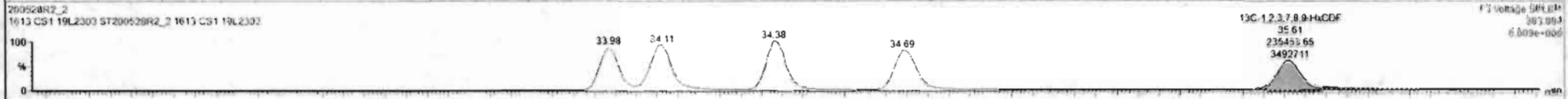


F3: Voltage SIR, EI+
445.7555
7.110e+003

#	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	0.8973	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	12C-2,3,7,8-TCDD	1.79e6	0.79	NO	1.1563	1.000	26.54	1.025	89.8	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	68.7	68.7	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	1.0187	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	



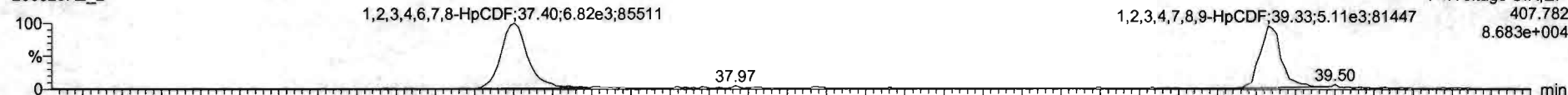
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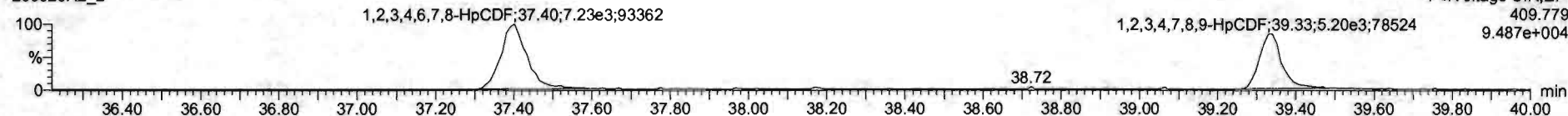
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1,2,3,4,6,7,8-HpCDF

200528R2_2



200528R2_2

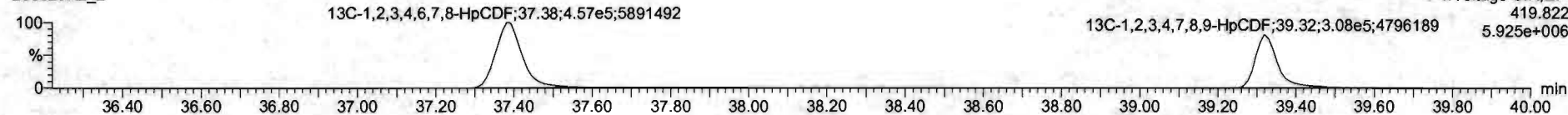


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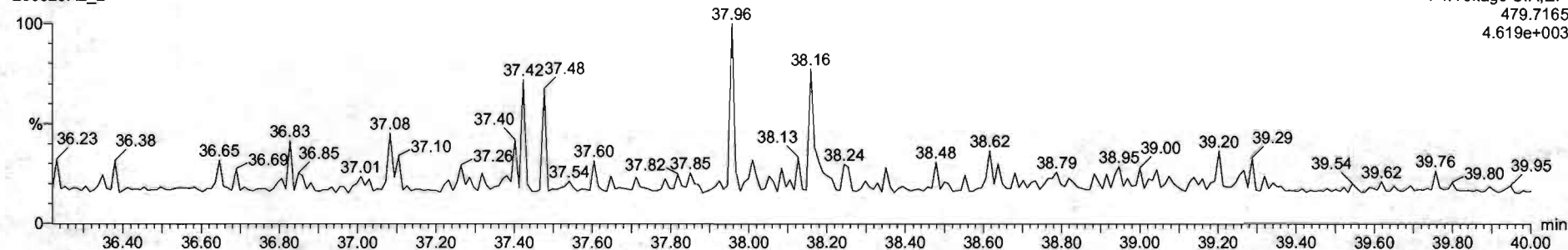


200528R2_2



DPE4

200528R2_2

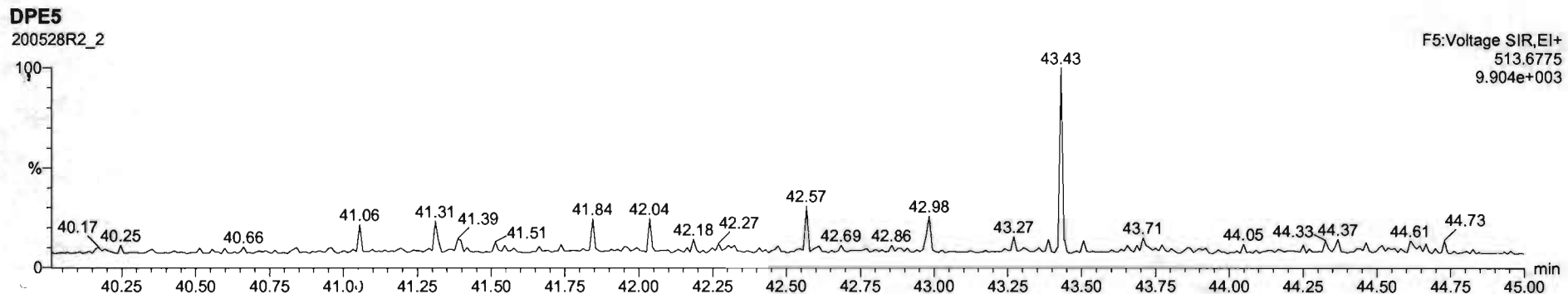
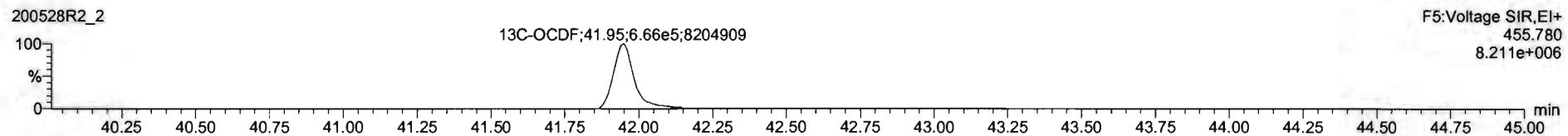
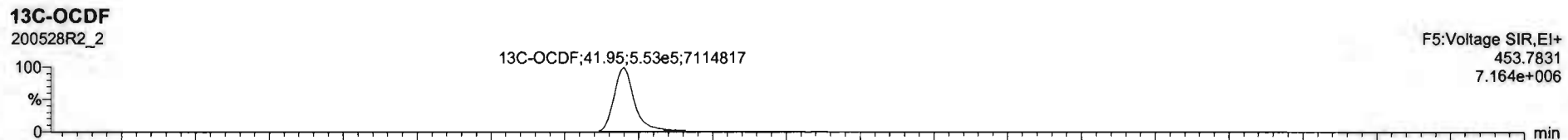
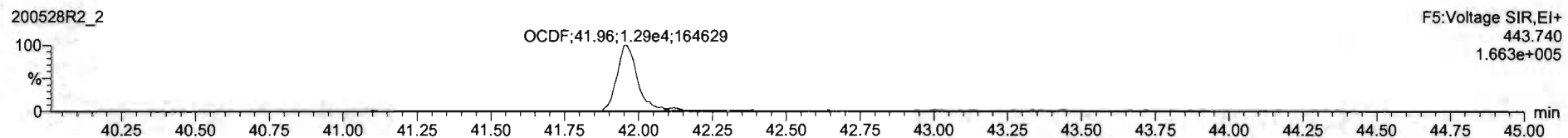
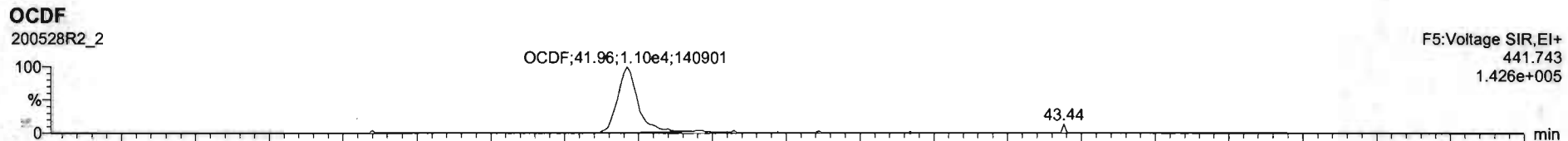


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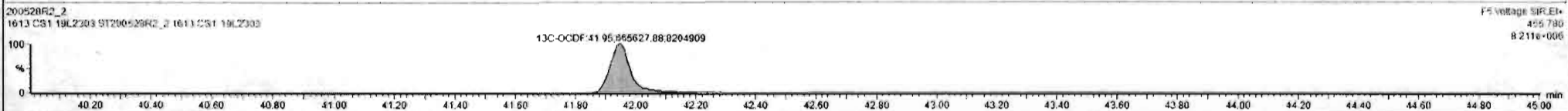
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Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.85e4	1.27	NO	1.0334	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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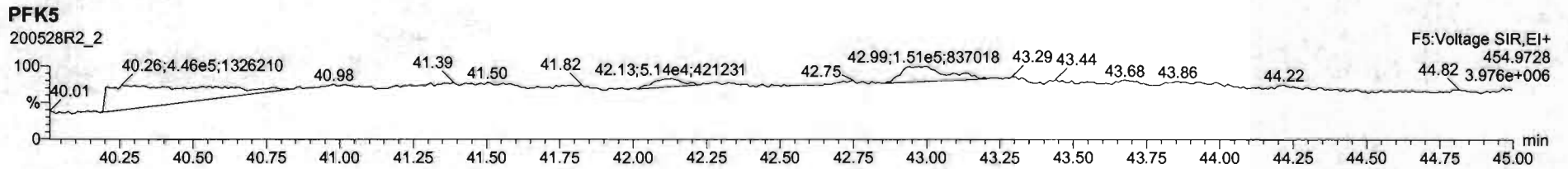
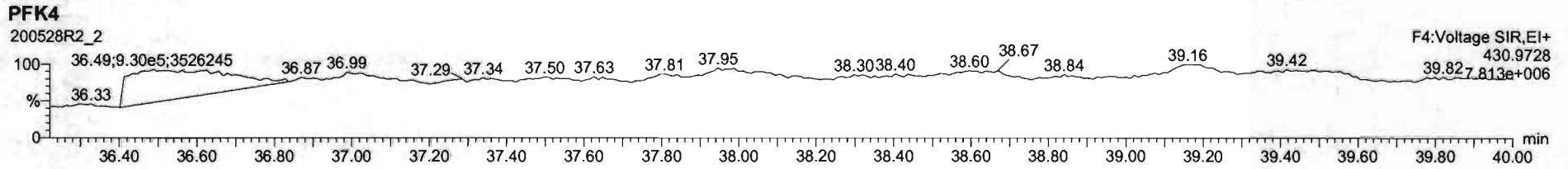
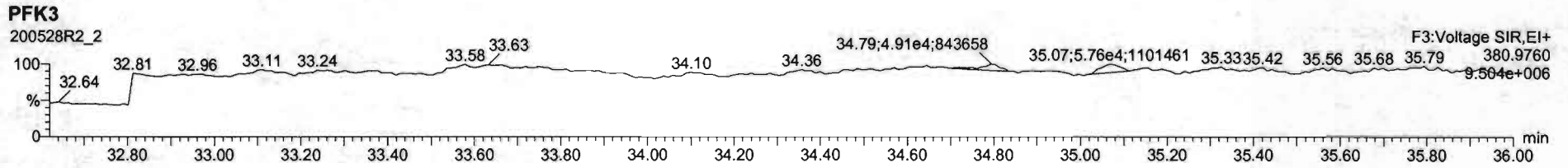
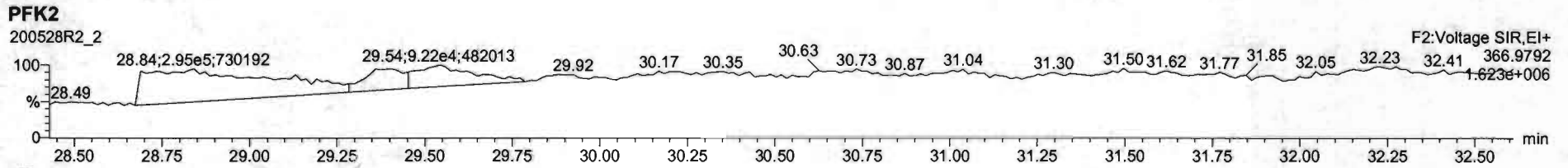
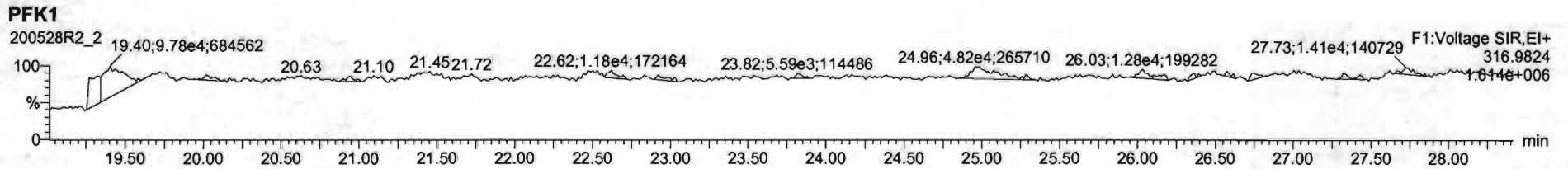
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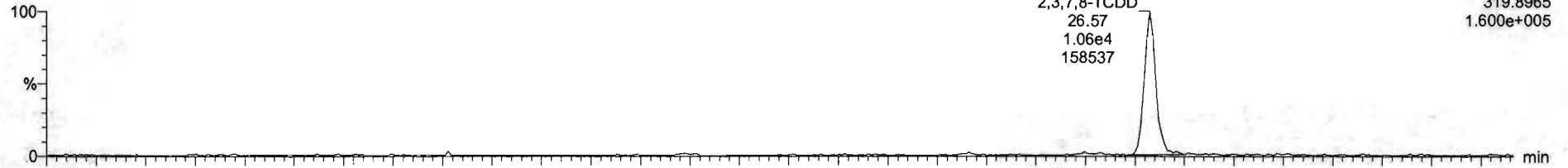
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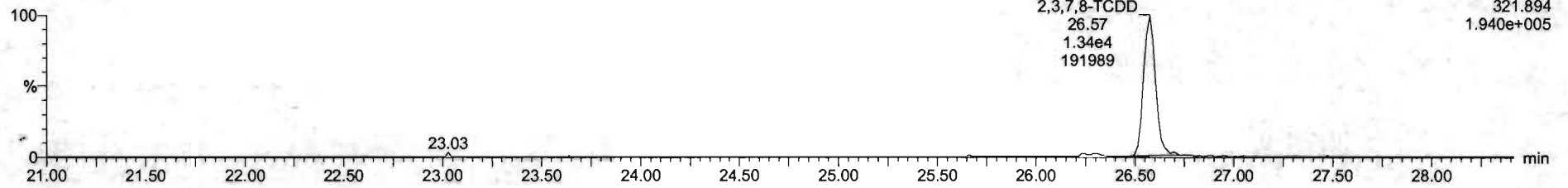
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2,3,7,8-TCDD

200528R2_3

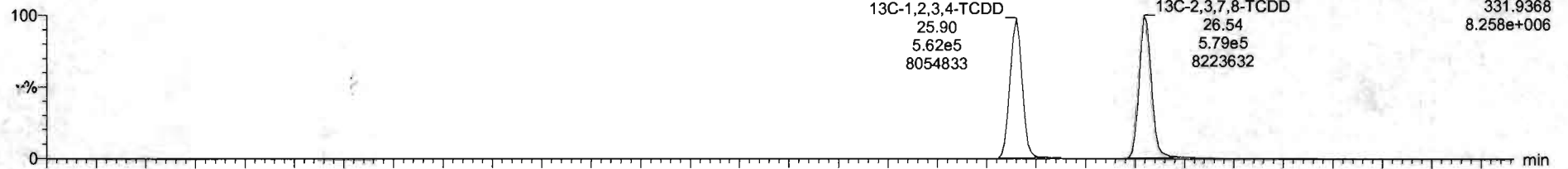


200528R2_3

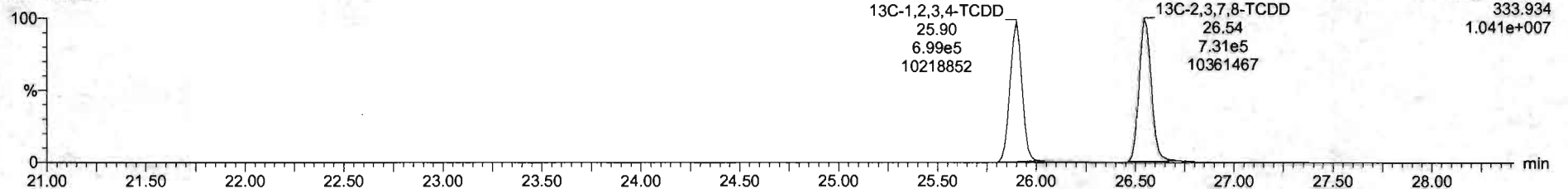


13C-2,3,7,8-TCDD

200528R2_3



200528R2_3



Dataset: Untitled

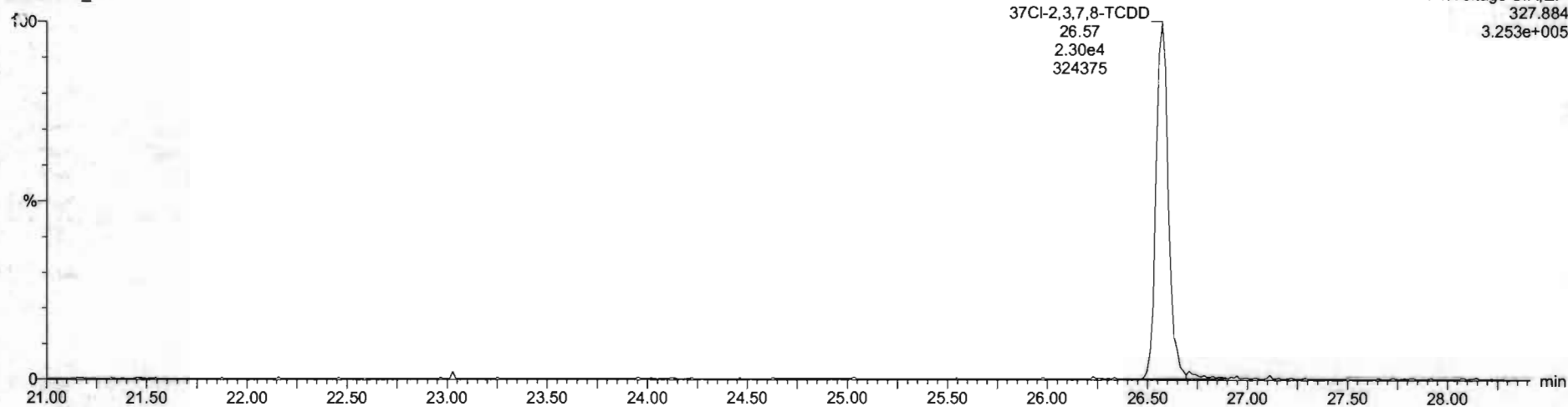
Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

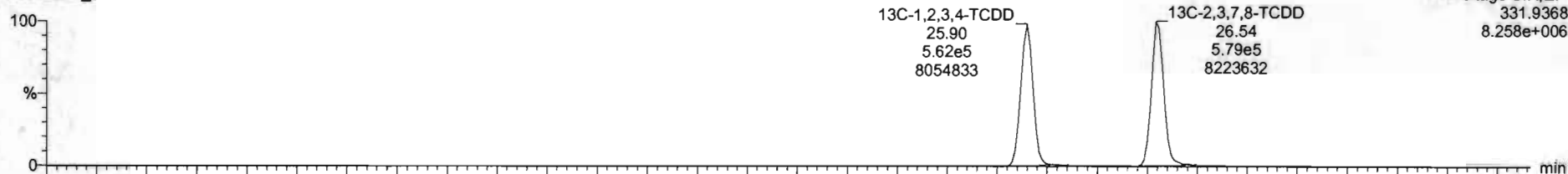
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200528R2_3

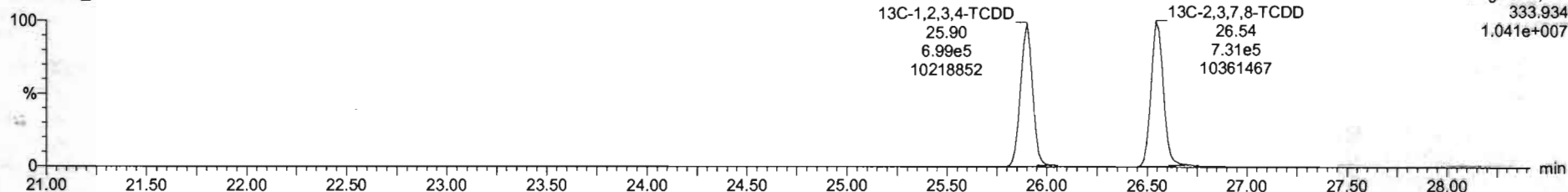


13C-1,2,3,4-TCDD

200528R2_3



200528R2_3



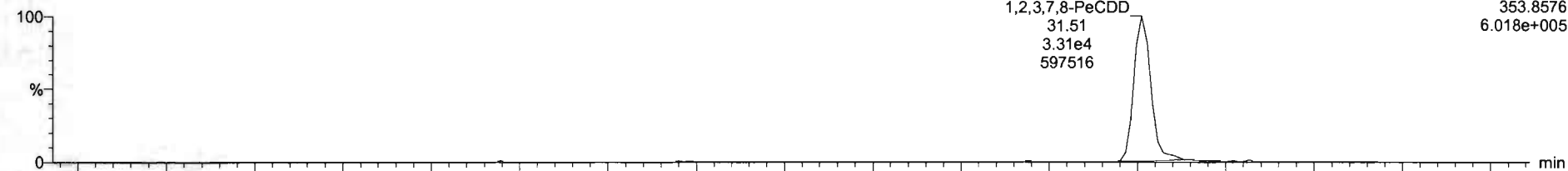
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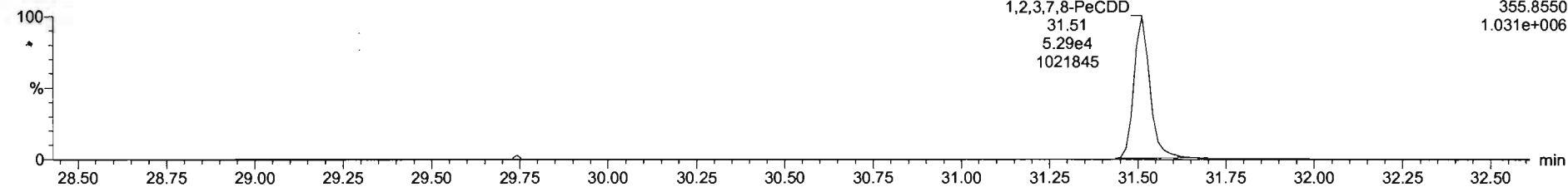
Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1,2,3,7,8-PeCDD

200528R2_3

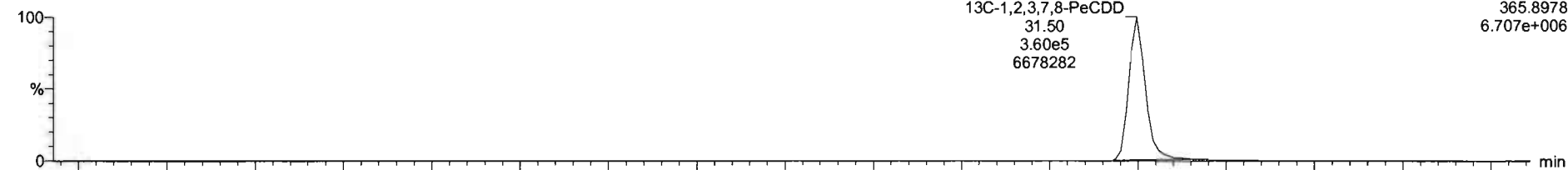


200528R2_3

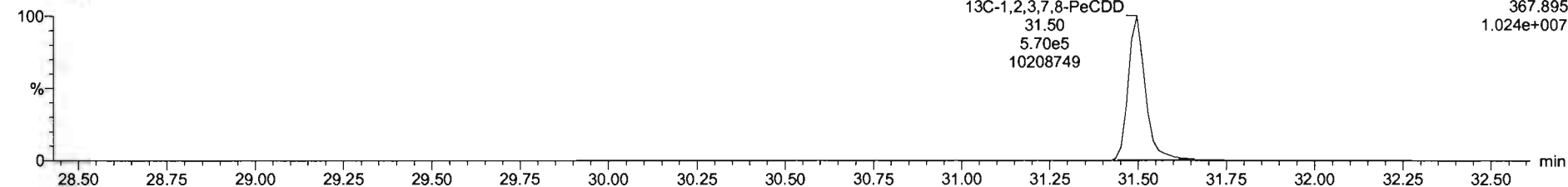


13C-1,2,3,7,8-PeCDD

200528R2_3



200528R2_3



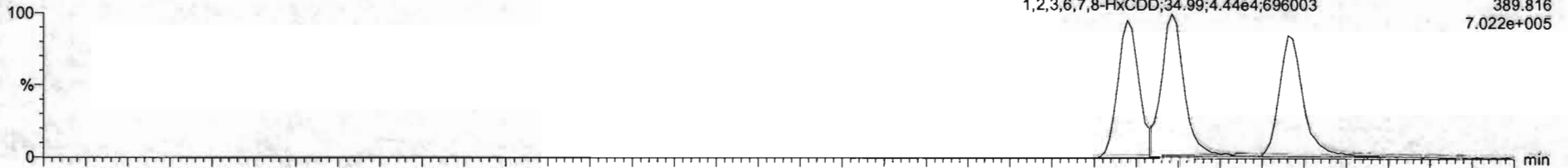
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

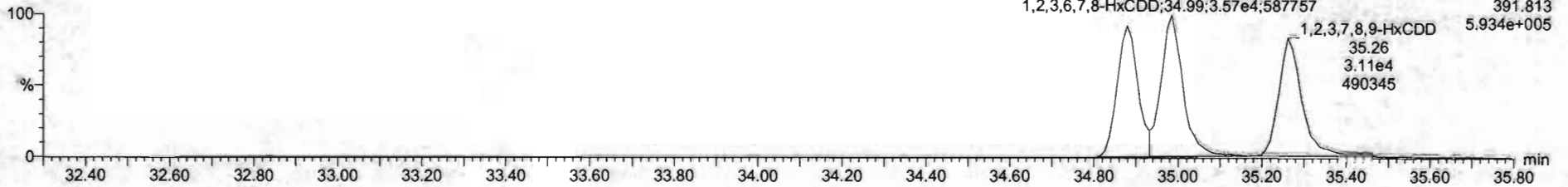
Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200528R2_3

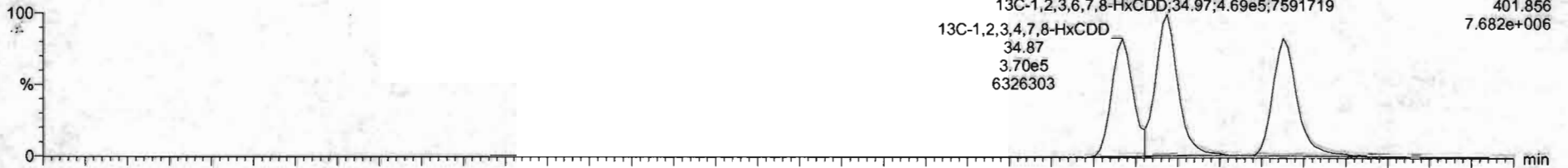


200528R2_3

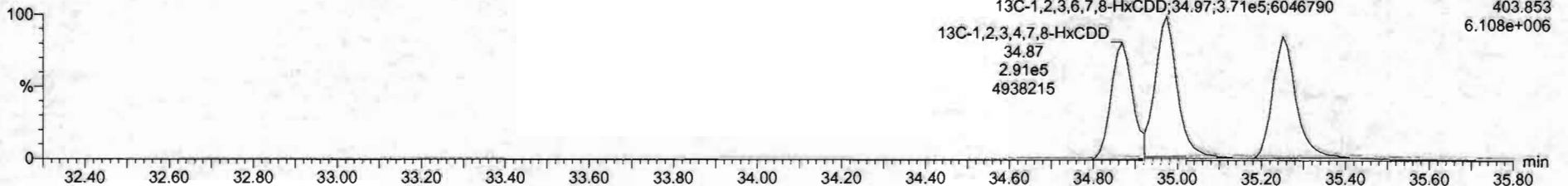


13C-1,2,3,4,7,8-HxCDD

200528R2_3



200528R2_3



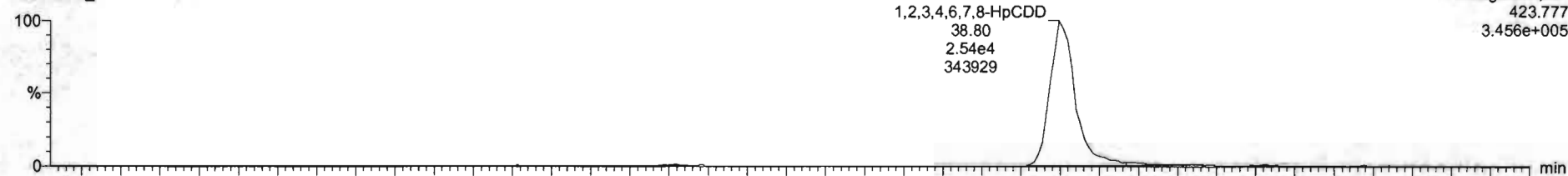
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

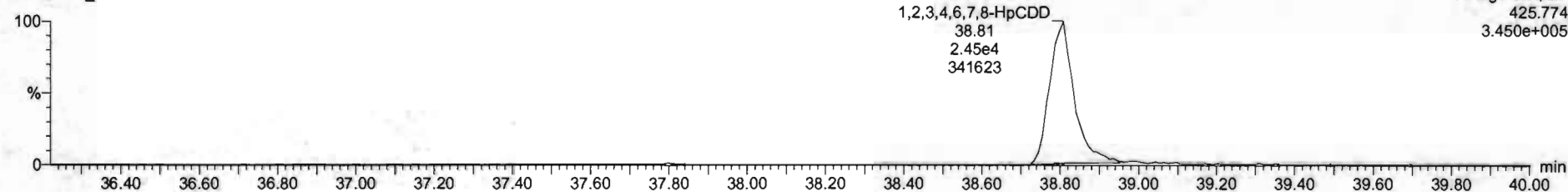
1,2,3,4,6,7,8-HpCDD

200528R2_3



F4: Voltage SIR, EI+
423.777
3.456e+005

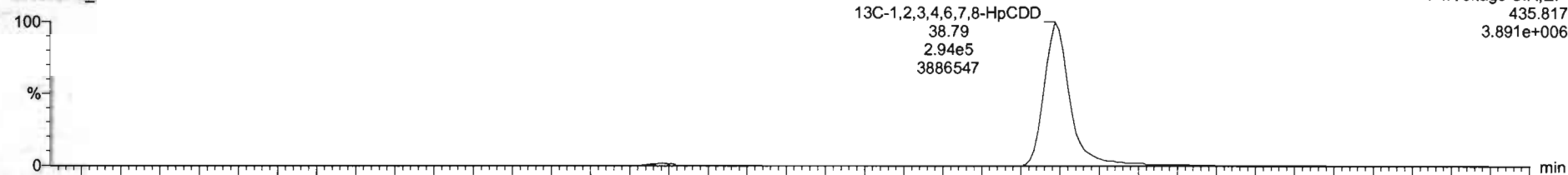
200528R2_3



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3.450e+005

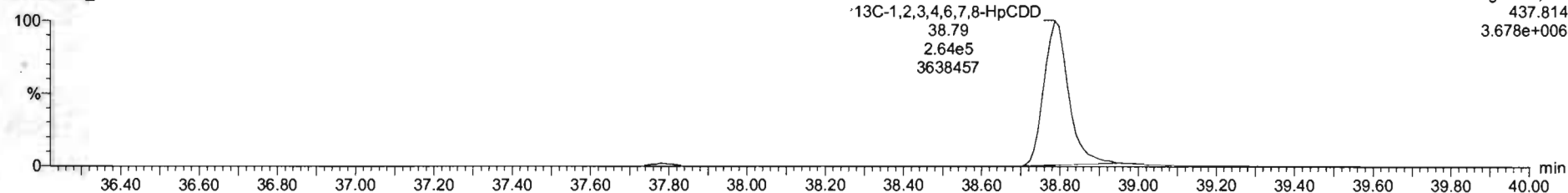
13C-1,2,3,4,6,7,8-HpCDD

200528R2_3



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435.817
3.891e+006

200528R2_3

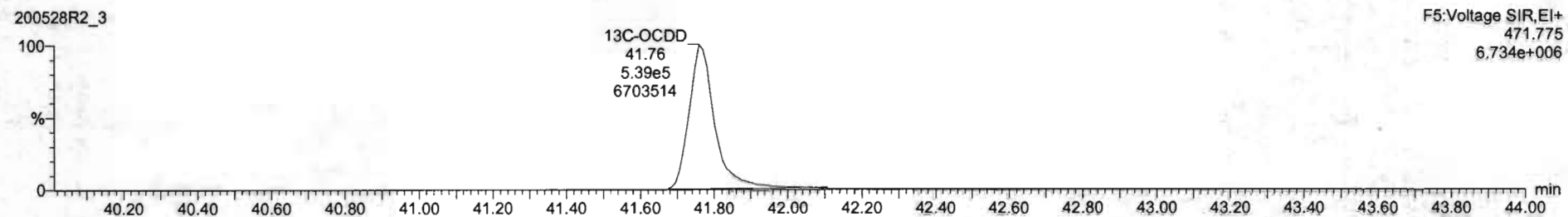
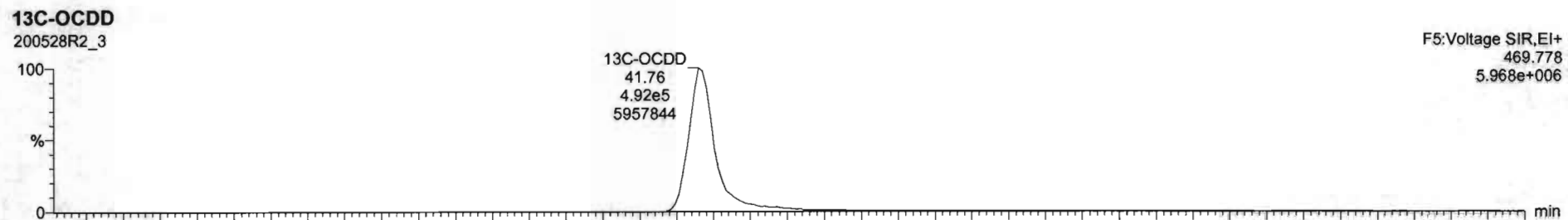
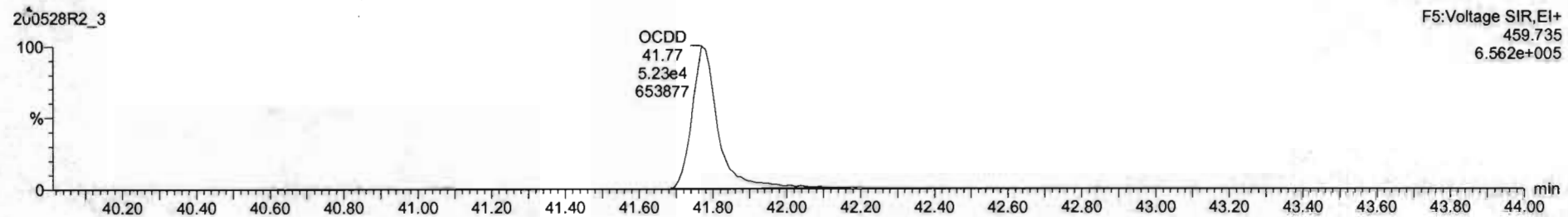
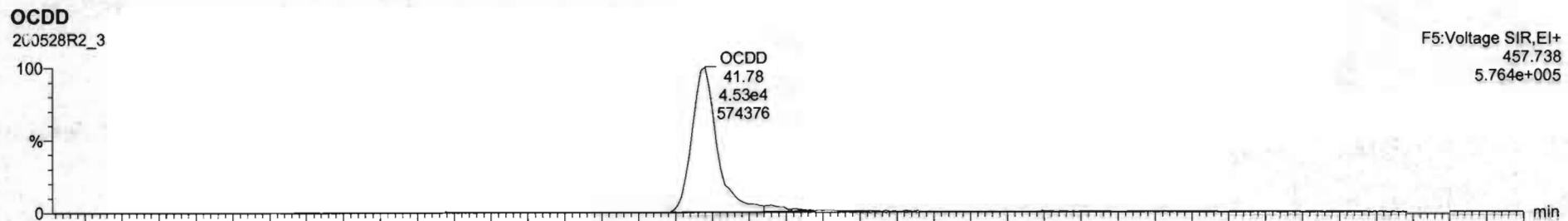


F4: Voltage SIR, EI+
437.814
3.678e+006

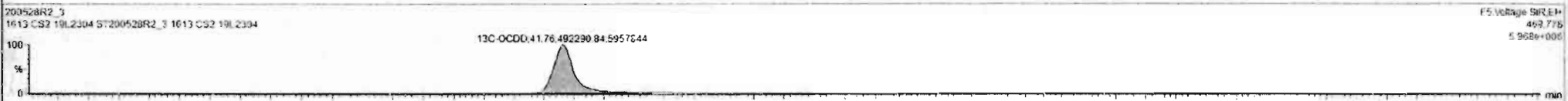
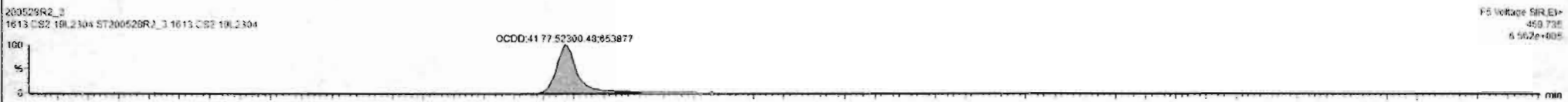
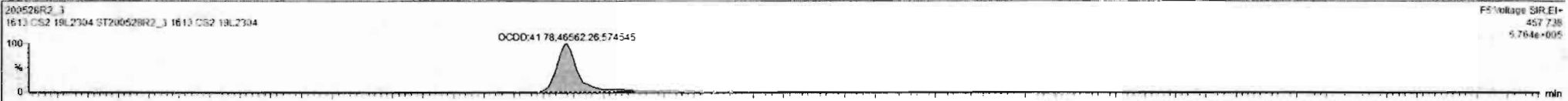
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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	39.8	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	



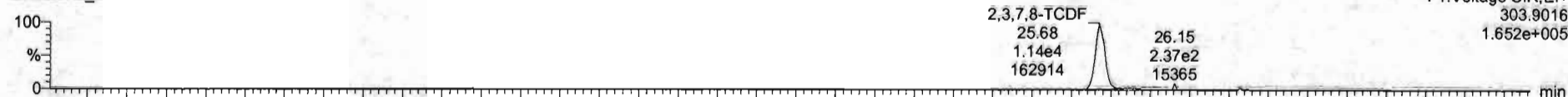
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

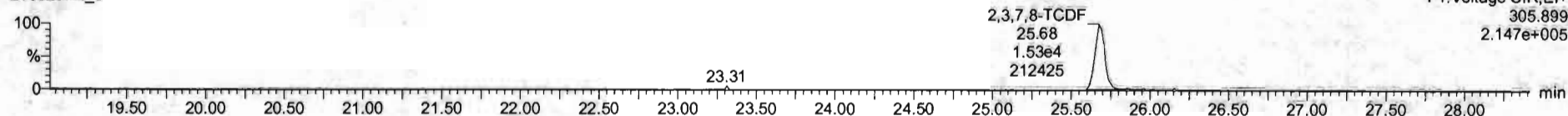
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2,3,7,8-TCDF

200528R2_3

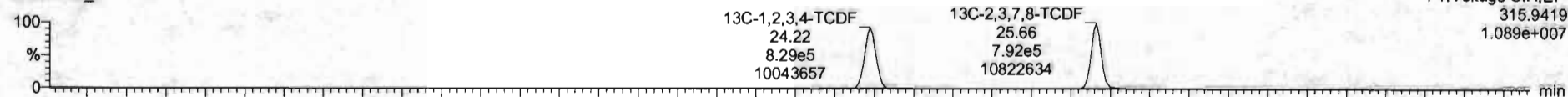


200528R2_3

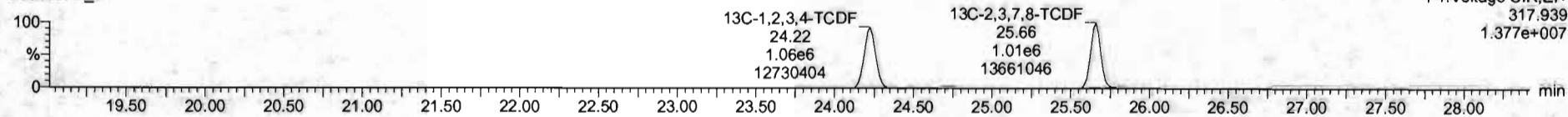


13C-2,3,7,8-TCDF

200528R2_3

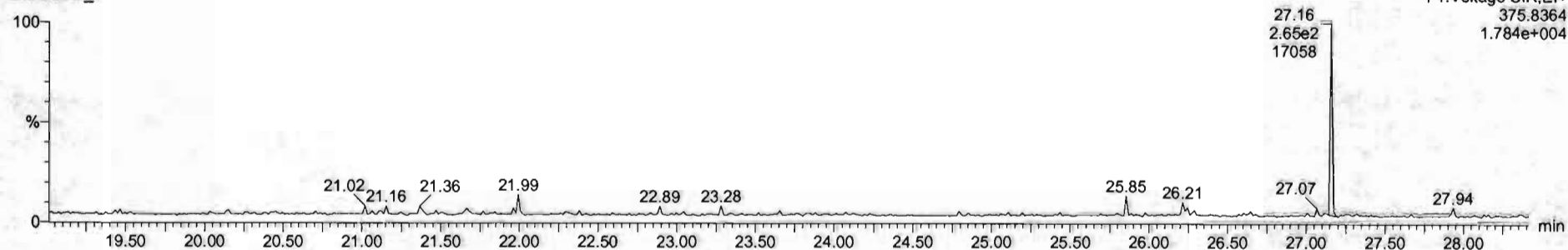


200528R2_3



DPE1

200528R2_3



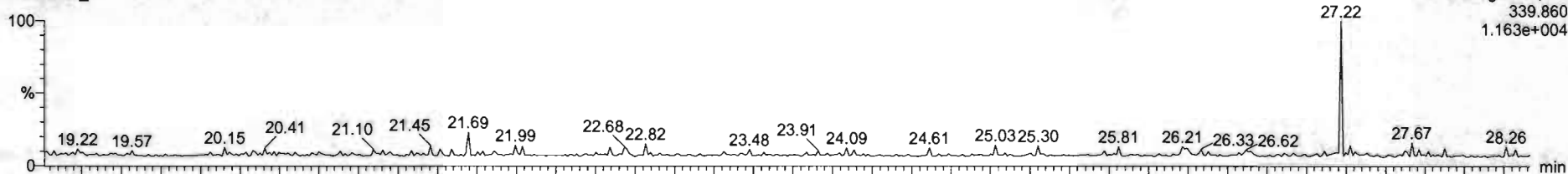
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

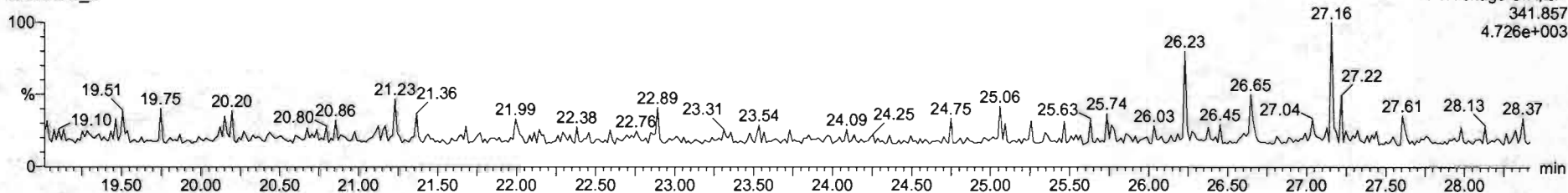
Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans

200528R2_3

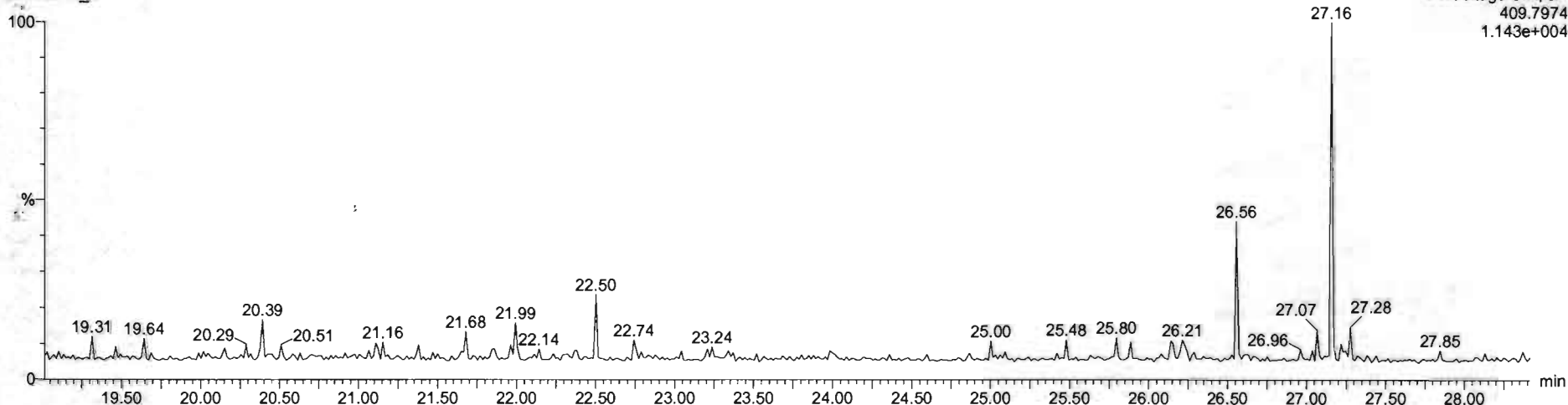


200528R2_3



DPE6

200528R2_3



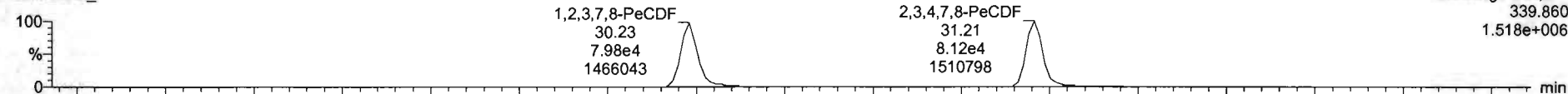
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

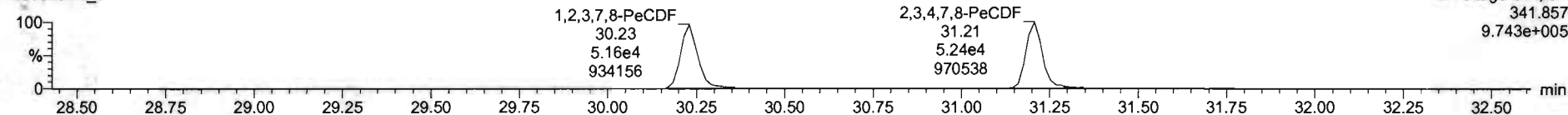
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1,2,3,7,8-PeCDF

200528R2_3

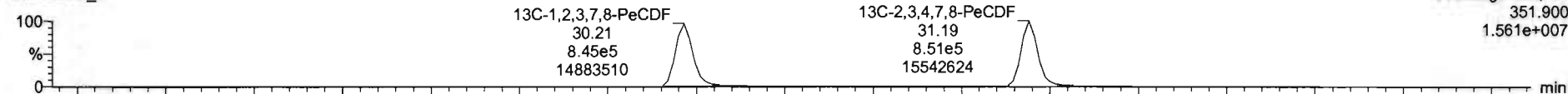


200528R2_3

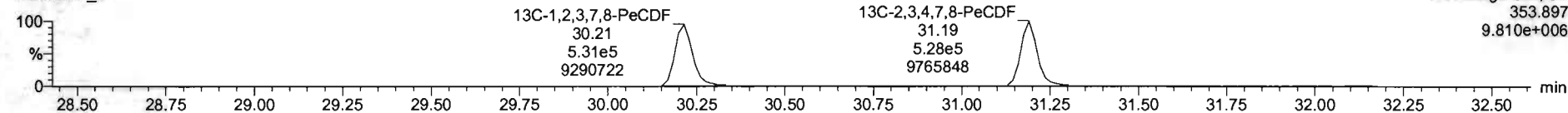


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200528R2_3

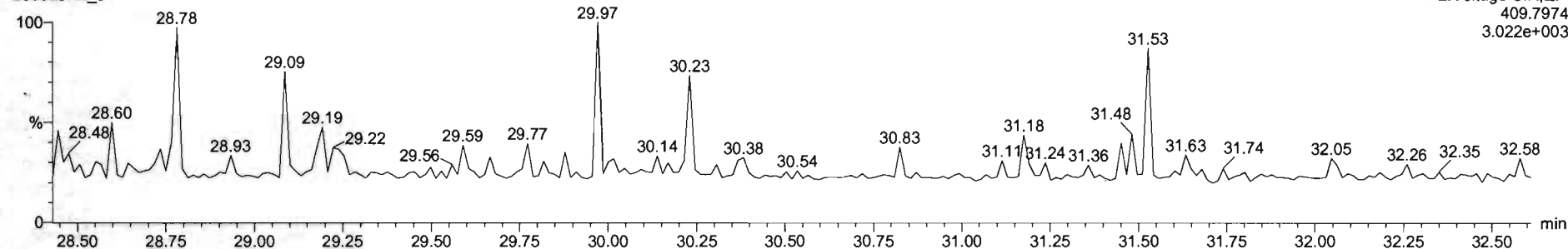


200528R2_3



DPE2

200528R2_3



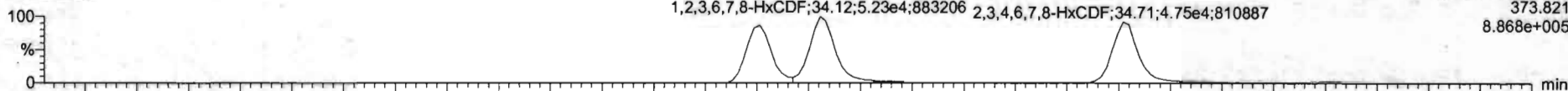
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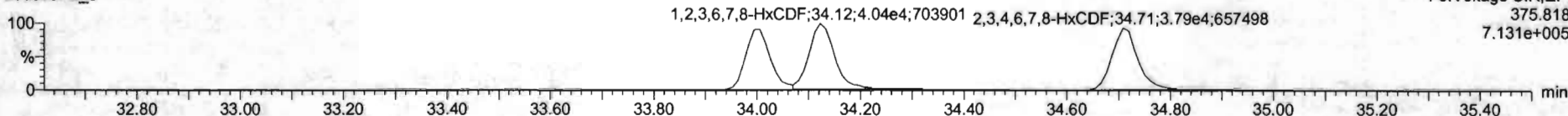
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1,2,3,4,7,8-HxCDF

200528R2_3

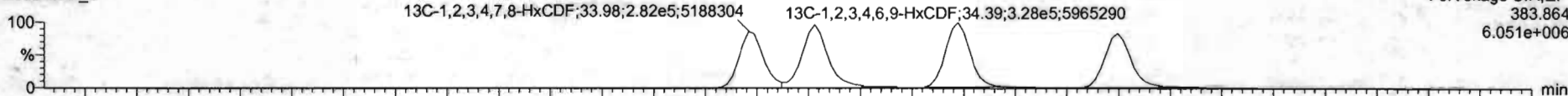


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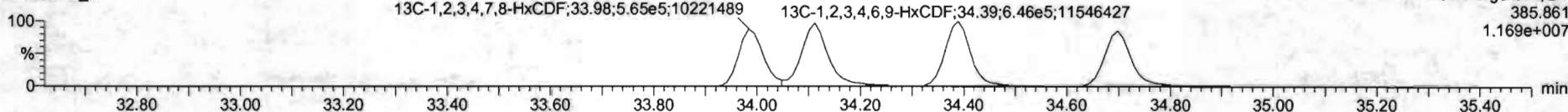


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200528R2_3

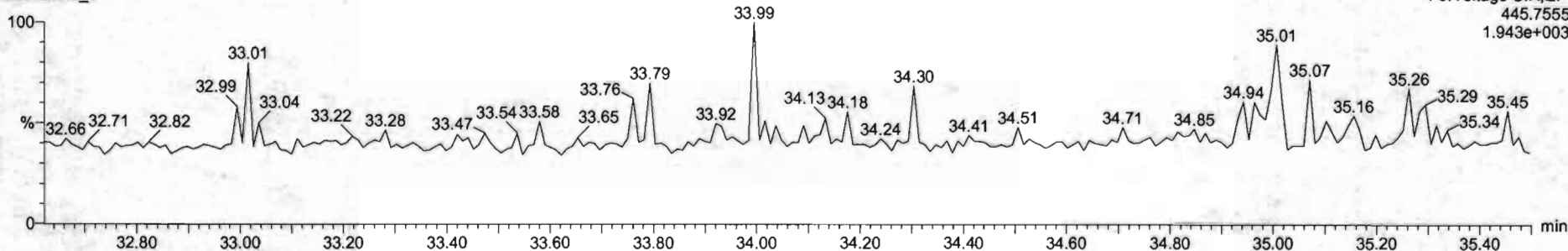


200528R2_3

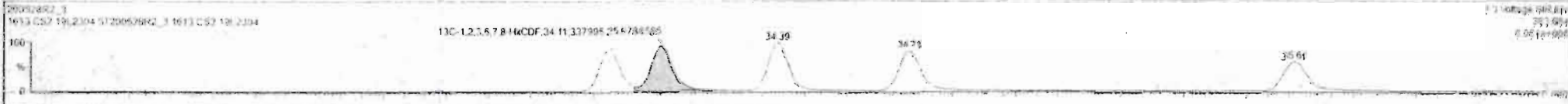
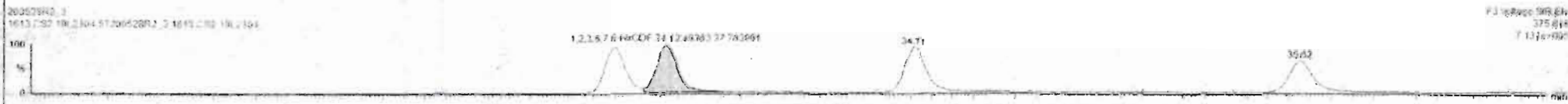


DPE3

200528R2_3

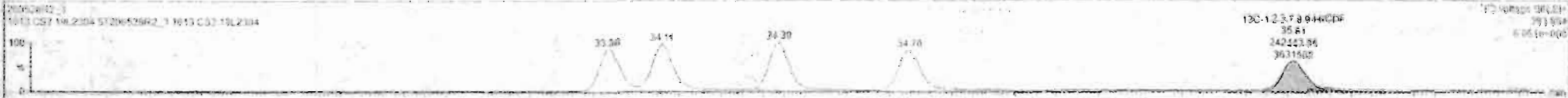


#	Name	Resp	Rk	ntf	RRF	weight	BT	NK1	Conc	%Rec	DR	EMPL
1	1.2.3.6.7.CDD	2.58e4	0.39	NO	0.8803	1.000	26.07	1.001	2.08	103	0.0070	2.08
2	1.2.3.7.8.HxCDD	5.58e4	0.43	NO	0.9051	1.000	31.51	1.000	10.2	102	0.0400	10.2
3	1.2.3.4.7.8.HxCDD	5.94e4	1.24	NO	1.0334	1.000	34.88	1.000	16.2	102	0.0501	16.2
4	1.2.3.7.8.HxCDD	6.01e4	1.24	NO	0.8923	1.000	34.95	1.000	16.7	102	0.0558	16.7
5	1.2.3.7.8.HxCDD	7.01e4	1.26	NO	0.9269	1.000	35.26	1.000	18.1	105	0.0670	18.1
6	1.2.3.4.7.8.HxCDD	7.99e4	1.02	NO	0.8839	1.000	35.80	1.000	18.4	104	0.0797	18.4
7	CDD	9.89e4	0.39	NO	0.9138	1.000	41.75	1.000	21.0	105	0.1169	21.0
8	1.2.3.6.7.CDD	2.87e4	0.74	NO	0.7510	1.000	35.80	1.001	1.91	98.8	0.0511	1.91
9	1.2.3.7.8.HxCDF	1.31e5	1.58	NO	0.8025	1.000	36.23	1.000	10.7	107	0.0517	10.7
10	1.2.3.4.7.8.HxCDF	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	34.01	1.001	10.5	106	0.0561	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.HxCDF	8.03e4	1.21	NO	0.9191	1.000	34.71	1.000	10.5	105	0.0603	10.5
14	1.2.3.7.8.HxCDF	6.49e4	1.24	NO	0.9707	1.000	35.62	1.000	10.3	102	0.0561	10.3
15	1.2.3.4.7.8.HxCDF	3.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0628	10.1
16	1.2.3.4.7.8.HxCDF	4.43e4	1.01	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0581	10.4
17	CDD	5.58e4	0.39	NO	0.8585	1.000	41.90	1.000	26.3	103	0.0967	26.3
18	13C-1.2.3.6.7.CDD	1.31e5	0.79	NO	1.1562	1.000	26.04	1.025	39.0	39.8	0.0809	
19	13C-1.2.3.7.8.HxCDF	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.HxCDD	6.61e5	1.27	NO	0.7790	1.000	24.97	1.014	87.0	87.2	0.149	
21	13C-1.2.3.6.7.8.HxCDD	6.19e5	1.38	NO	1.0167	1.000	24.97	1.017	84.7	84.7	0.146	





#	Name	Range	ISA	city	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	0.0078	2.01
2	1,2,3,7,8-PeCDD	5.55e4	0.80	NO	0.9041	1.000	31.21	1.002	10.2	102	0.0430	10.2
3	1,2,3,4,7,8-HxCDD	5.89e4	1.24	NO	1.0334	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	0.8921	1.000	34.99	1.000	10.7	101	0.0549	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	1.63	NO	0.8838	1.000	28.00	1.000	10.4	104	0.0191	10.4
7	CDD	3.89e4	0.80	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	25.00	1.001	1.21	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	1.20	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	0.0601	10.3
15	1,2,3,4,6,7,8-HpCDF	1.72e4	1.00	NO	0.8734	1.000	37.40	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	30.38	1.000	10.4	104	0.0601	10.4
17	CDF	3.66e4	0.60	NO	0.8985	1.000	41.96	1.000	25.4	103	0.0963	25.4
18	1,2,3,4,6,7,8,9-HxCDF	1.31e4	0.79	NO	1.1560	1.000	26.54	1.025	19.0	89.5	0.0653	
19	1,2,3,6,7,8,9-HxCDF	9.29e4	0.83	NO	0.9420	1.000	31.08	1.216	68.0	66.1	0.123	
20	1,2,3,4,7,8,9-HxCDF	2.61e4	1.27	NO	0.7798	1.000	34.07	1.034	57.0	87.0	0.159	
21	1,2,3,4,6,7,8,9-HxCDF	6.20e4	1.26	NO	1.0187	1.000	24.97	1.017	34.7	34.7	0.145	



Custom Reporting: Select reports to generate

19L2304_3 CAP NLSM

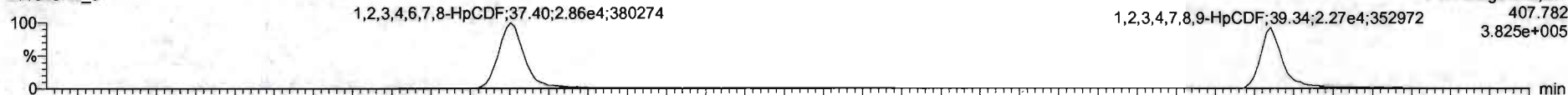
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

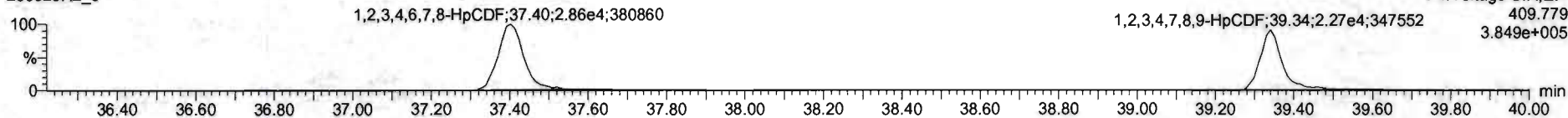
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200528R2_3

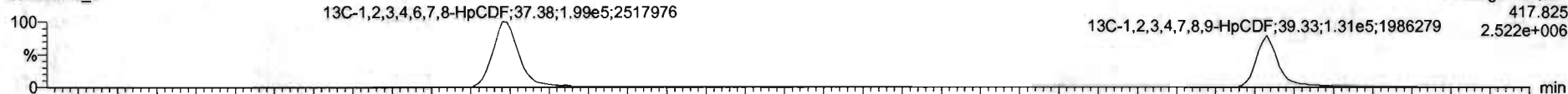


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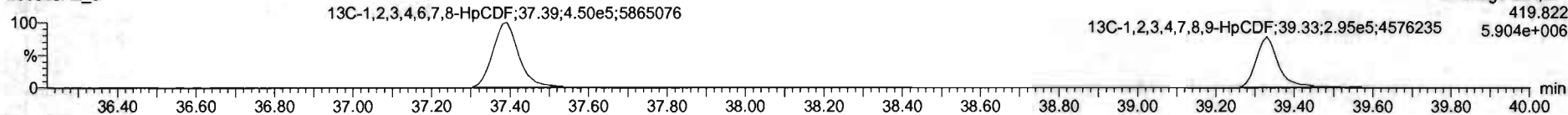


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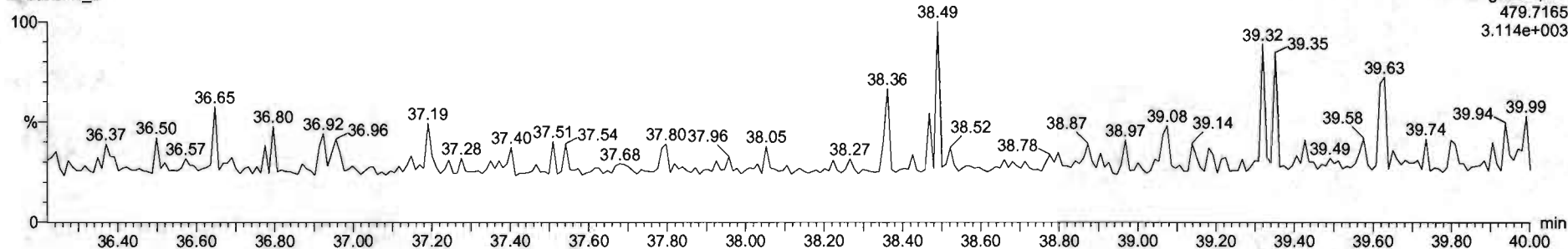


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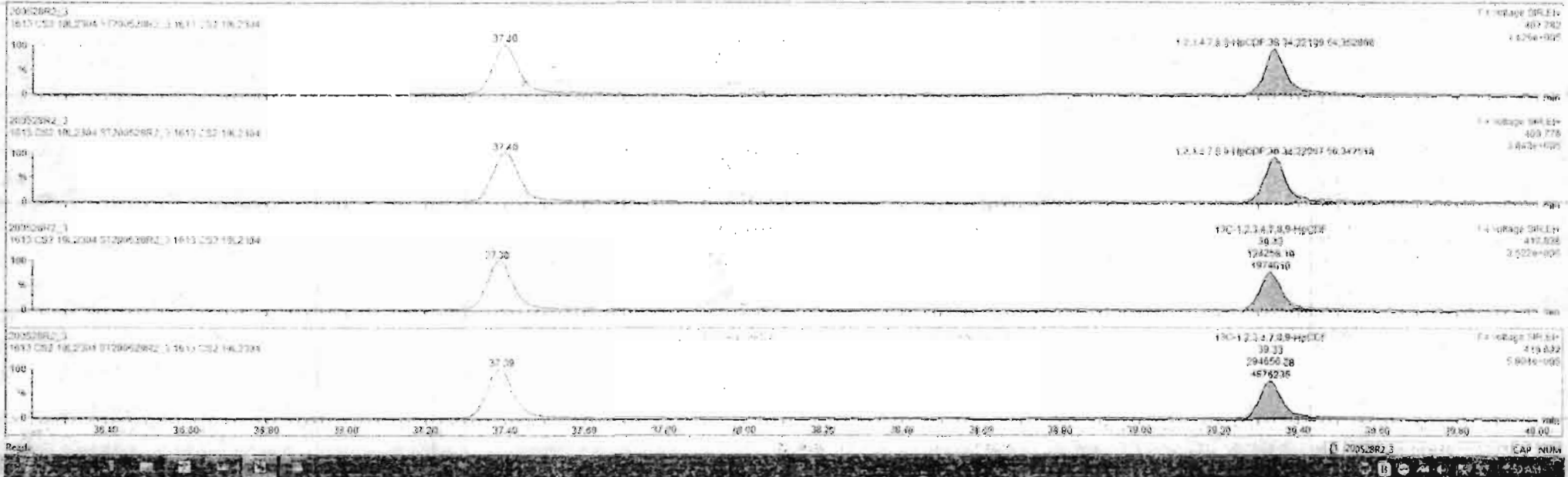
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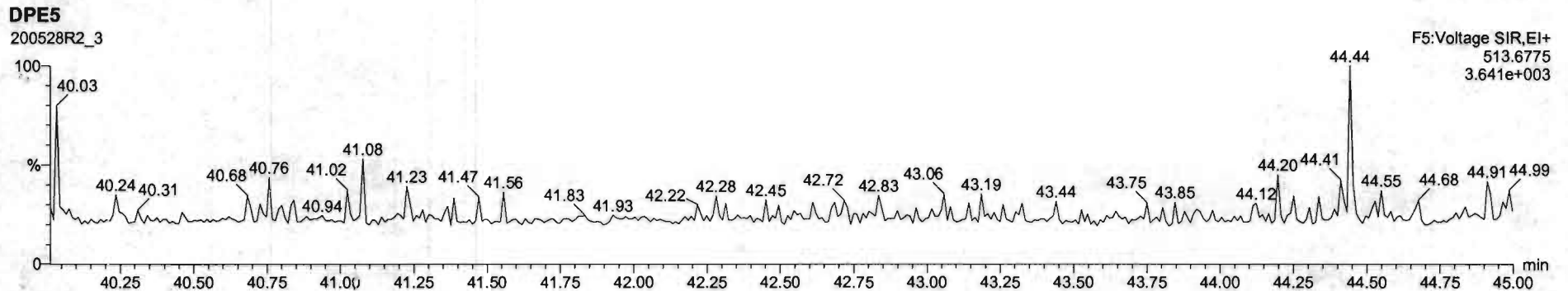
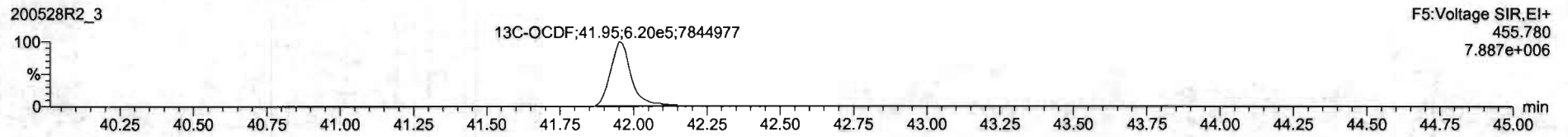
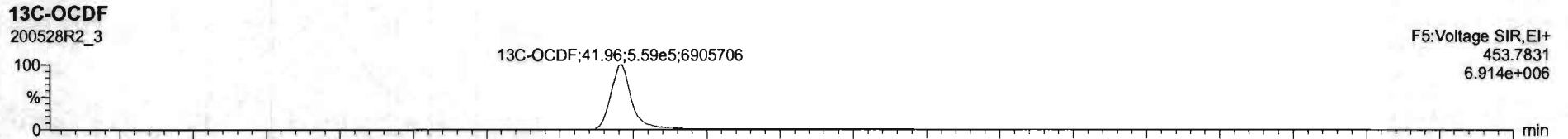
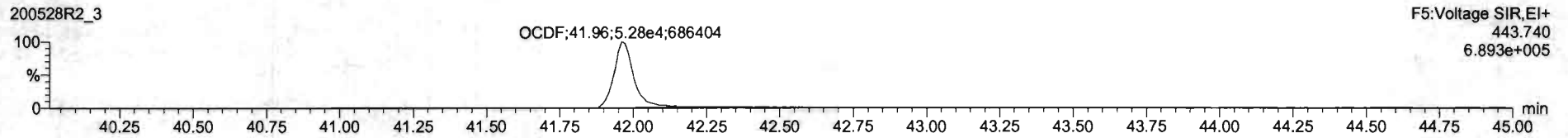
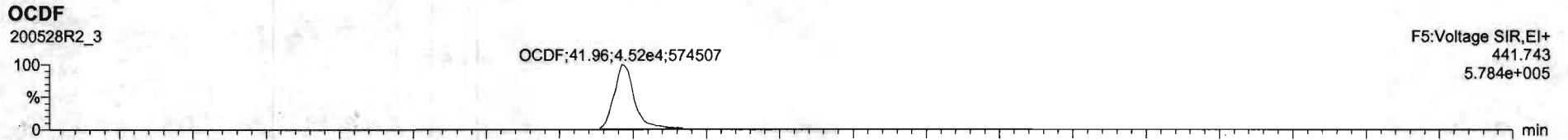
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1	1,2,3,6-TCDF	2.48e4	0.00	NO	0.8803	1.00	26.07	1.00	2.00	107	0.0276	2.30
2	1,2,3,7,8-PeCDF	1.50e4	0.03	NO	0.9091	1.00	31.01	1.00	10.0	107	0.0400	10.2
3	1,2,3,4,7,8-HxCDF	8.90e3	1.24	NO	1.0334	1.00	34.05	1.00	10.0	107	0.0501	10.2
4	1,2,3,6,7,8-HxCDF	6.01e3	1.04	NO	0.8621	1.00	34.36	1.00	10.7	107	0.0559	10.2
5	1,2,3,7,8-HxCDF	2.11e4	1.26	NO	0.8809	1.00	35.26	1.00	10.5	107	0.0579	10.3
6	1,2,3,4,6,7,8-HpCDF	1.90e4	1.02	NO	0.8639	1.00	35.90	1.00	10.4	104	0.0747	10.4
7	OCDF	0.59e4	0.09	NO	0.9126	1.00	31.75	1.00	21.0	105	0.109	21.0
8	1,2,3,6,7,8-HxCDF	2.77e4	0.24	NO	0.7510	1.00	25.00	1.00	1.97	96.8	0.0101	1.97
9	1,2,3,7,8-HxCDF	1.15e4	1.90	NO	0.6902	1.00	30.23	1.00	10.7	107	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.10e4	1.05	NO	0.9140	1.00	31.41	1.00	10.4	104	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	2.91e4	1.02	NO	0.6940	1.00	34.05	1.00	10.6	106	0.0651	10.6
12	1,2,3,6,7,8-HxCDF	1.20e4	1.08	NO	0.9042	1.00	34.12	1.00	10.3	103	0.0545	10.3
13	1,2,3,4,7,8-HxCDF	6.50e4	1.05	NO	0.9341	1.00	34.71	1.00	10.5	105	0.0640	10.5
14	1,2,3,7,8-HxCDF	6.40e3	1.24	NO	0.6707	1.00	31.42	1.00	10.3	103	0.0601	10.3
15	1,2,3,4,6,7,8-HpCDF	1.70e4	1.00	NO	0.9234	1.00	37.40	1.00	10.1	101	0.0620	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.03	NO	1.0120	1.00	39.34	1.00	10.4	104	0.0681	10.4
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	39.5	0.0800	50.0
19	1,2,3,4,7,8,9-HpCDF	9.19e3	0.03	NO	0.8450	1.00	35.10	1.00	20.0	80.0	0.123	20.0
20	1,2,3,4,7,8,9-HpCDF	8.61e3	1.27	NO	0.7790	1.00	34.87	1.00	67.0	87.0	0.100	67.0
21	1,2,3,4,6,7,8-HpCDF	6.30e3	1.20	NO	1.0107	1.00	34.07	1.017	34.7	34.7	0.140	34.7



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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

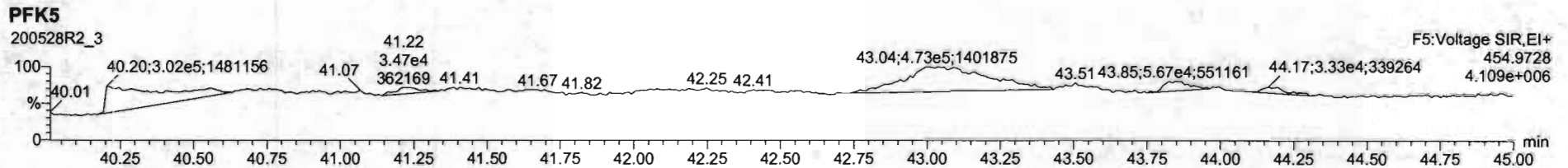
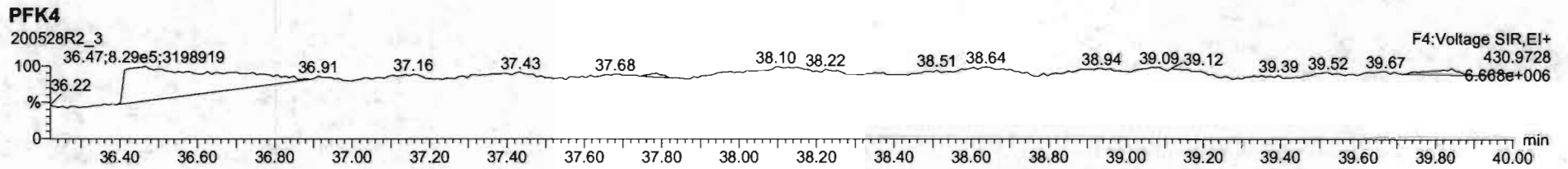
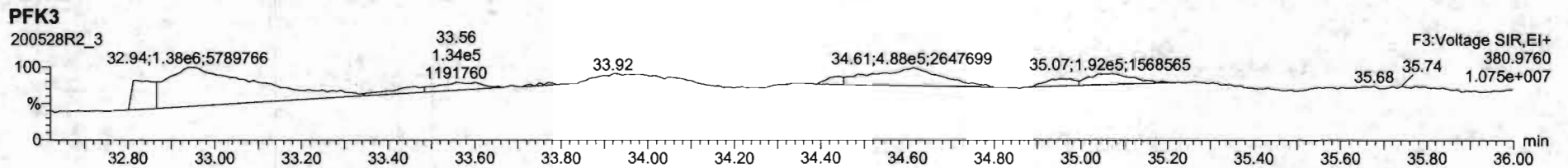
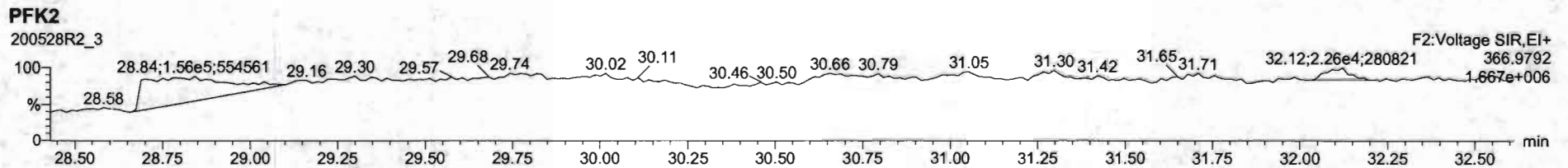
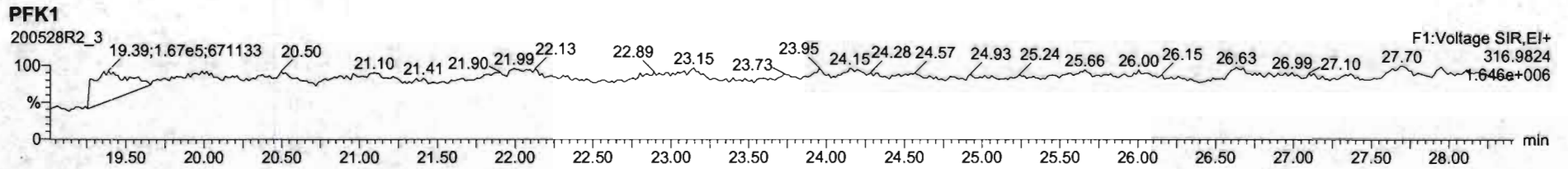


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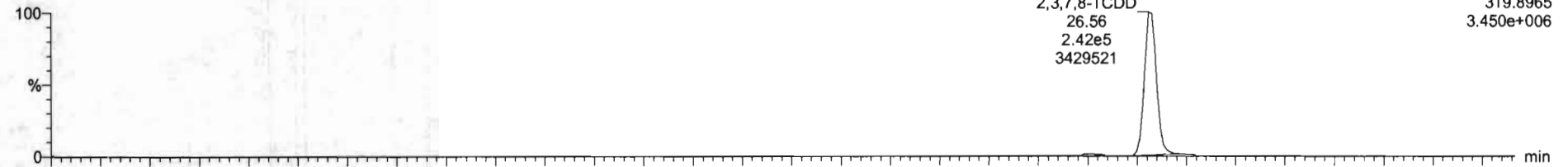
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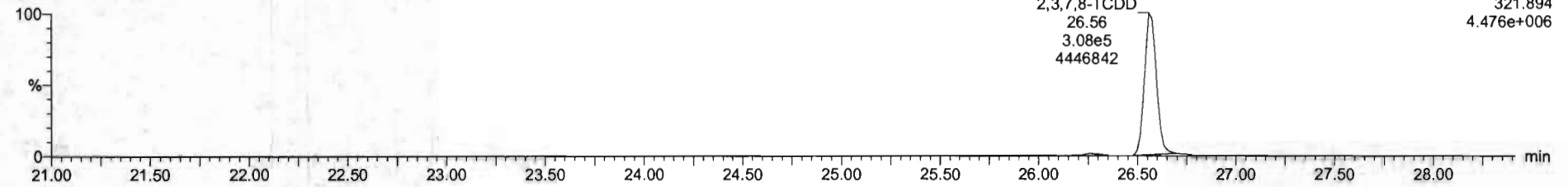
2,3,7,8-TCDD

200528R2_4



F1:Voltage SIR,EI+
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3.450e+006

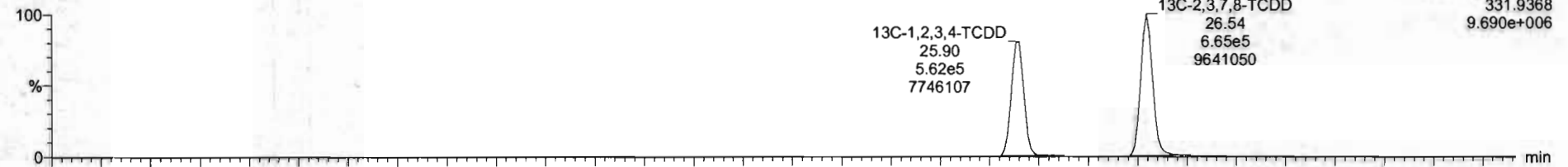
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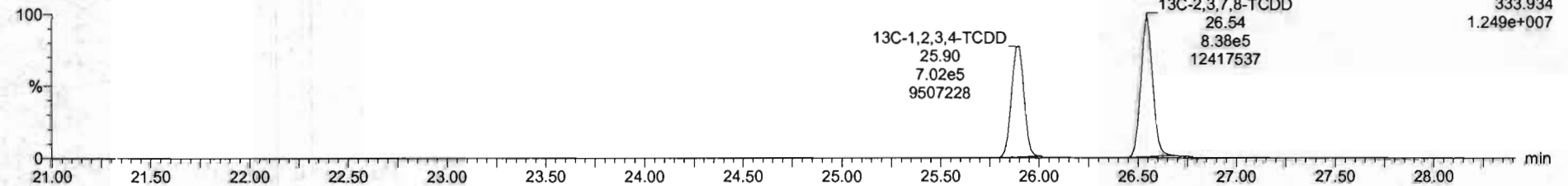
13C-2,3,7,8-TCDD

200528R2_4



F1:Voltage SIR,EI+
331.9368
9.690e+006

200528R2_4



F1:Voltage SIR,EI+
333.934
1.249e+007

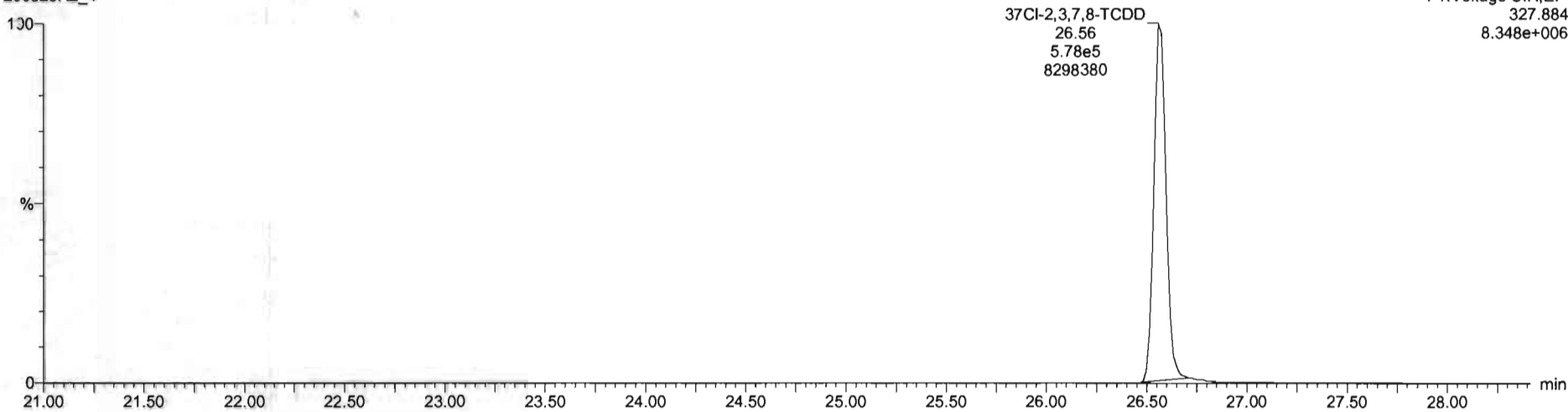
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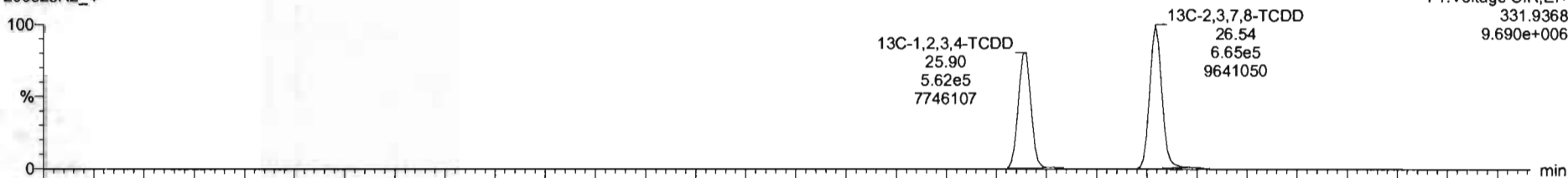
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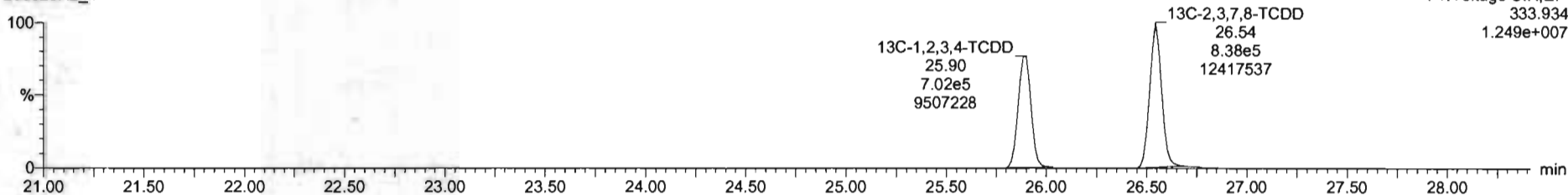


13C-1,2,3,4-TCDD

200528R2_4



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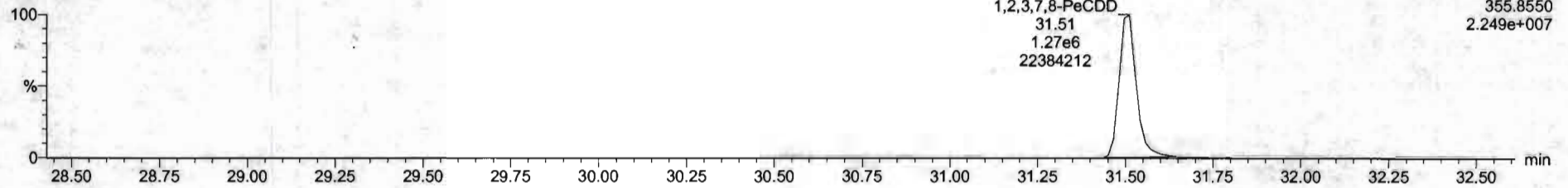
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1,2,3,7,8-PeCDD

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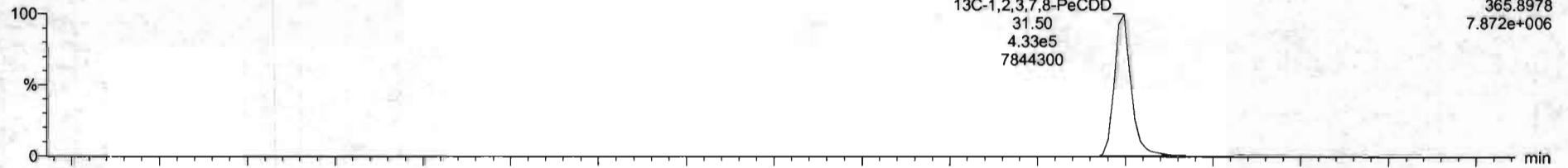


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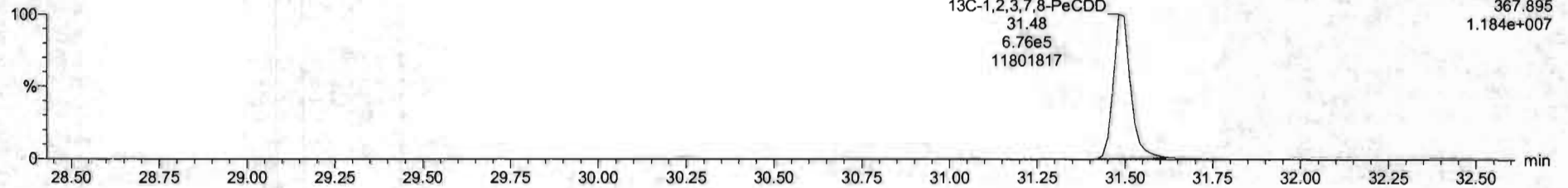


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200528R2_4



200528R2_4



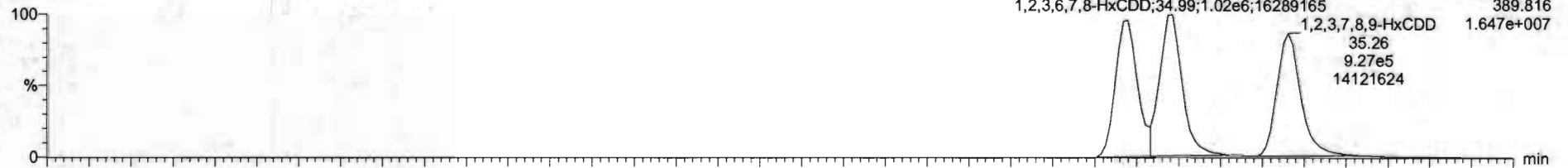
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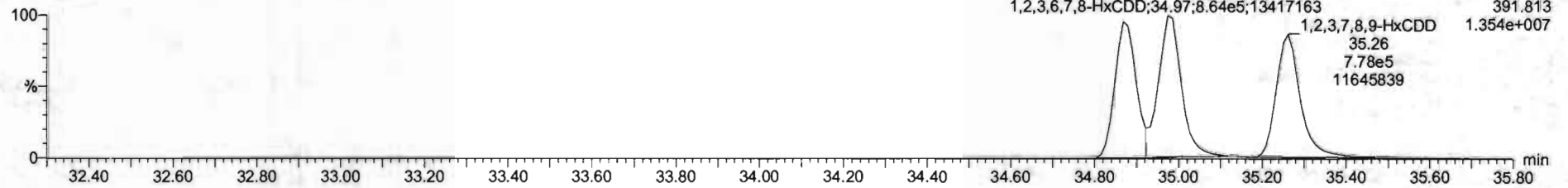
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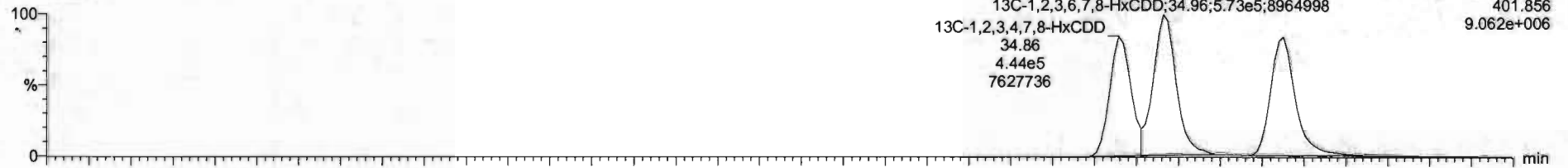


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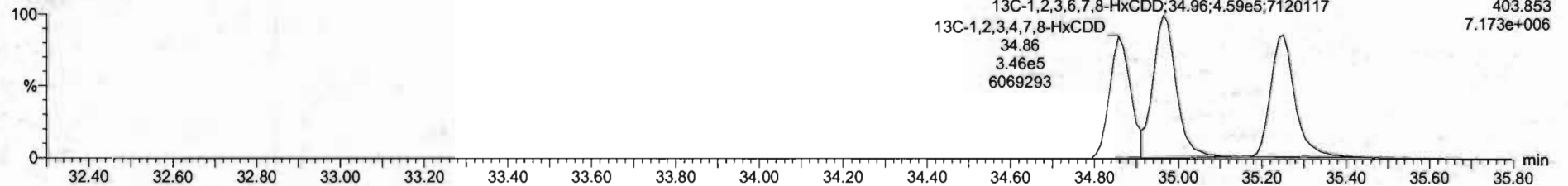


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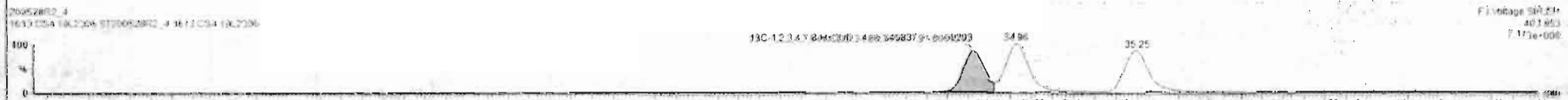
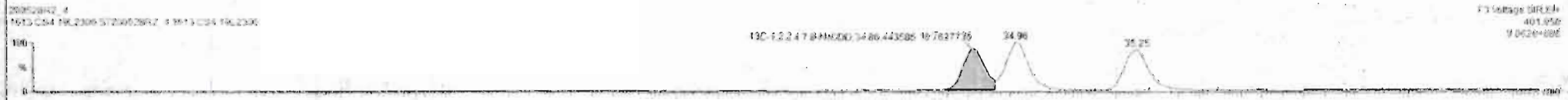
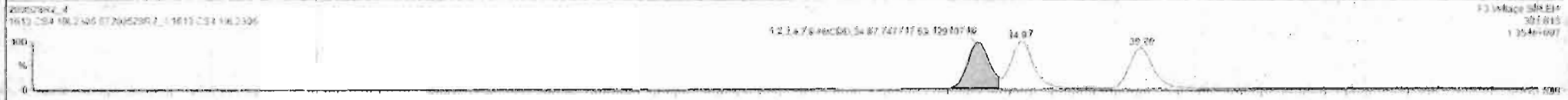


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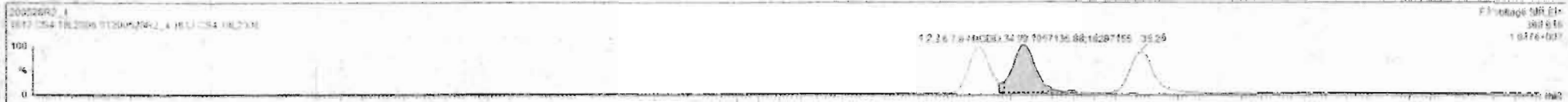




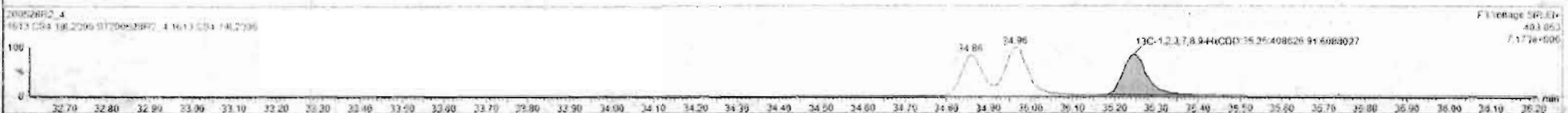
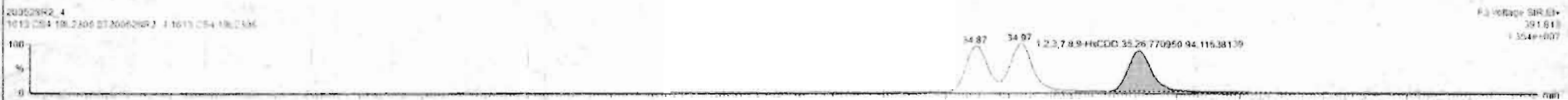
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2	1.2.3.7.8-HxCDD	2.25e6	0.83	NO	0.9091	1.000	31.51	1.000	205	102	0.0837	205
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0394	1.000	34.86	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8921	1.000	34.98	1.001	200	104	0.111	200
5	1.2.3.7.8.9-HxCDD	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	0.9138	1.000	41.77	1.000	397	99.4	0.192	397
8	1.2.3.6-TCDF	6.52e6	0.76	NO	0.7018	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	1.1563	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	1.0147	1.000	34.96	1.017	104	104	0.121	



#	Name	Keep	RA	RY	RF	WRet	RT	RRT	Conc	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	0.219	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	1.2.3.4.7.8.9-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	0.0460	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	inj	RRF	wtdwt	RT	RRT	Comp	%Rec	DL	IMP
1	1,2,3,7,8-TCDF	1.56e6	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	1,2,3,6,7,8-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-HxCDD	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-HpCDE	1.25e6	1.62	NO	0.8830	1.000	38.50	1.000	211	105	0.133	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.100	397
8	1,2,3,6-TCDF	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-HpCDF	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	1.67e6	1.16	NO	0.8845	1.000	33.95	1.000	200	104	0.221	200
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-HpCDF	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	1.60e6	1.20	NO	0.8157	1.000	35.42	1.001	200	104	0.313	200
15	1,2,3,4,6,7,8-HpCDE	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-HpCDE	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	3.54e6	0.57	NO	0.8095	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8-TCDF	1.56e6	0.75	NO	1.1587	1.000	28.54	1.025	103	103	0.164	
19	1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8460	1.000	31.50	1.210	103	103	0.130	
20	1,2,3,4,7,8-HxCDE	7.88e6	1.28	NO	0.7750	1.000	34.96	1.014	103	103	0.172	
21	1,2,3,6,7,8-HpCDD	1.03e6	1.35	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



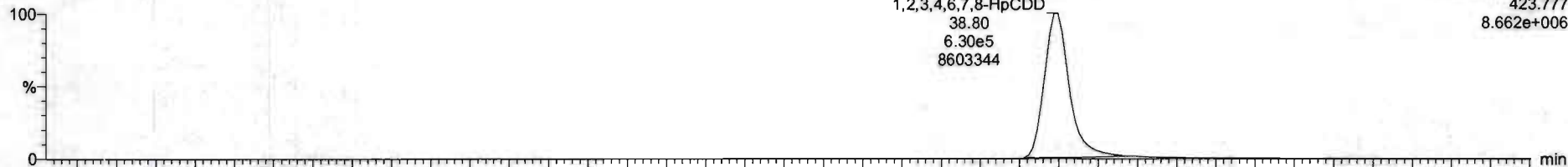
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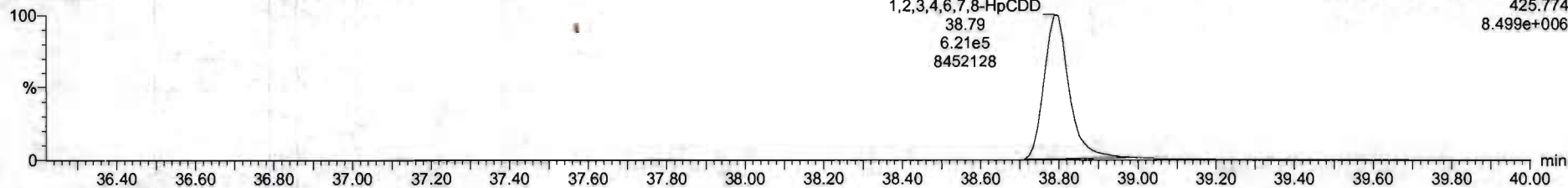
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1,2,3,4,6,7,8-HpCDD

200528R2_4

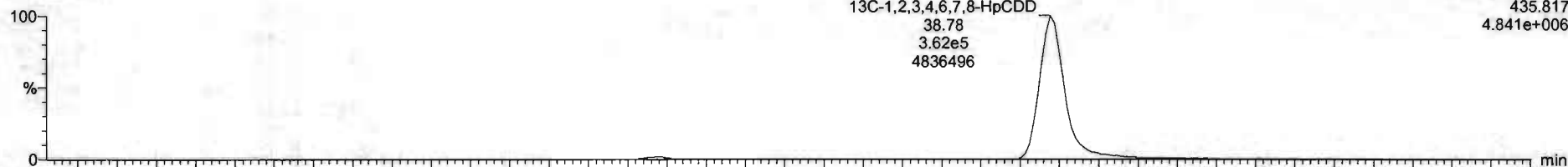


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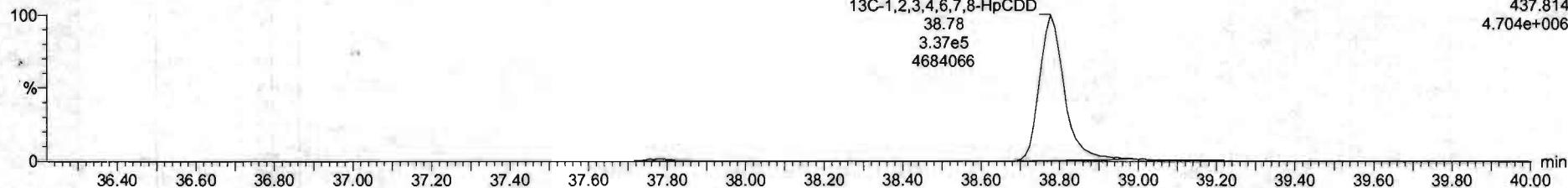


13C-1,2,3,4,6,7,8-HpCDD

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	0.8325	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	1,2,3,4,7,8,9-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	35.62	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	1,2,3,4,7,8,9-HpCDF	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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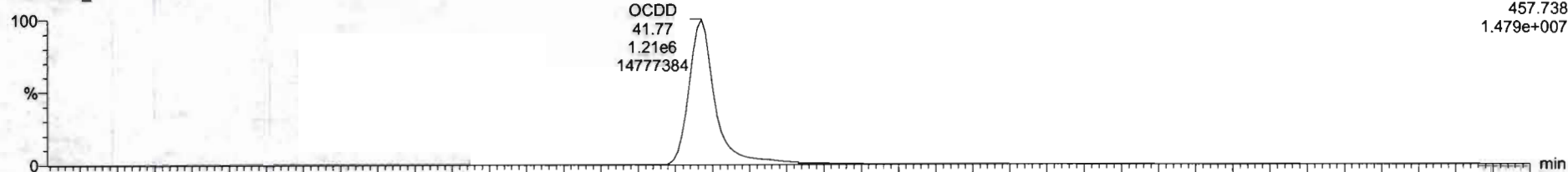
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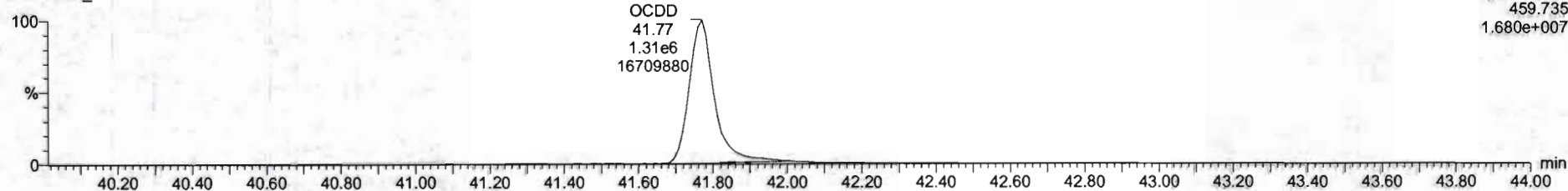
OCDD

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F5: Voltage SIR, EI+
457.738
1.479e+007

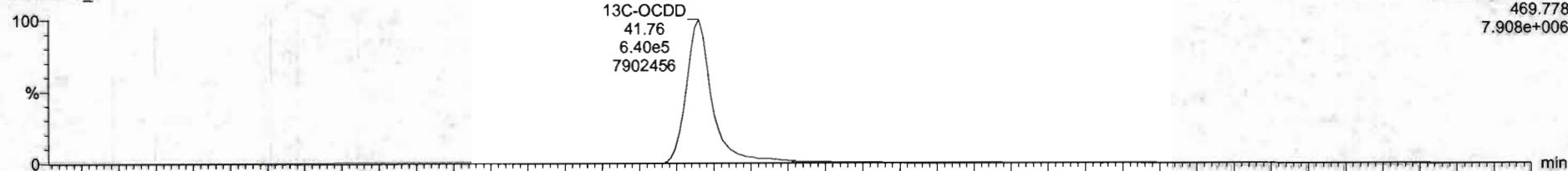
200528R2_4



F5: Voltage SIR, EI+
459.735
1.680e+007

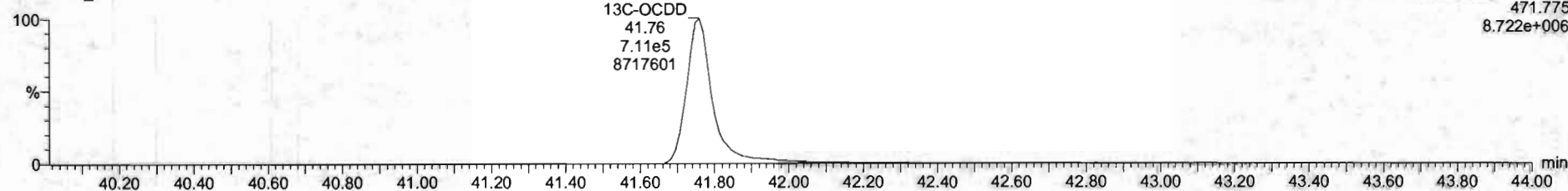
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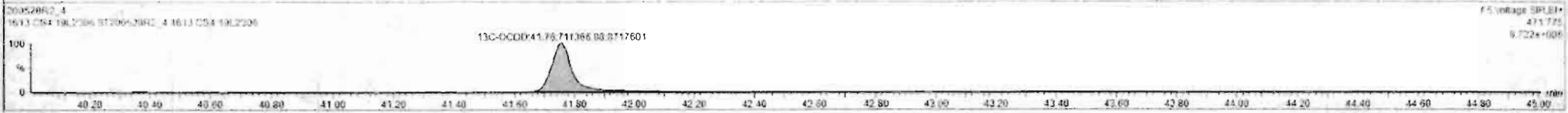
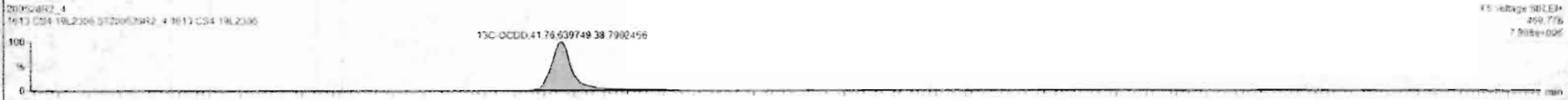
F5: Voltage SIR, EI+
469.778
7.908e+006

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	SIIPC
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	2.06e6	0.63	NO	0.9051	1.000	31.01	1.000	205	102	0.6837	205
3	1.2.3.4.7.8-HxCD	1.07e6	1.23	NO	1.0334	1.000	34.80	1.001	284	102	0.115	284
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8923	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.70e6	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	1.25e6	1.02	NO	0.8639	1.000	36.90	1.000	211	105	0.115	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	307	99.4	0.192	307
8	2.3.7.8-TCDF	6.52e5	0.76	NO	0.7510	1.000	28.65	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.8905	1.000	30.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	1.00e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.100	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8545	1.000	33.99	1.000	205	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.8862	1.000	34.12	1.001	206	103	0.205	206
13	1.2.3.4.7.8-HxCDF	2.00e6	1.19	NO	0.9383	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	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	1.43e6	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	1.13e6	0.90	NO	1.0126	1.000	39.33	1.000	214	107	0.227	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	1.58e6	0.79	NO	1.1583	1.000	28.54	1.025	103	103	0.184	
19	13C-1.2.3.7.8-PeCDD	1.11e6	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	34.96	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.131	



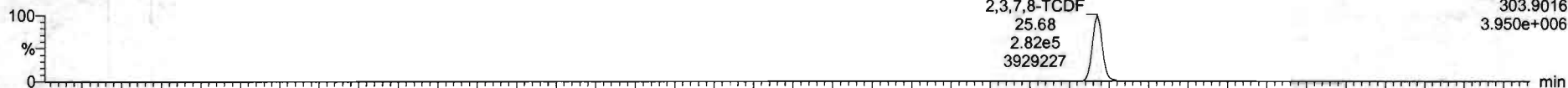
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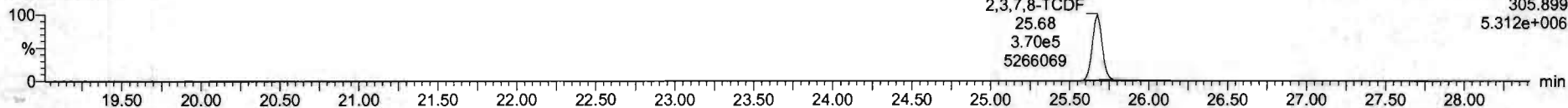
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2,3,7,8-TCDF

200528R2_4

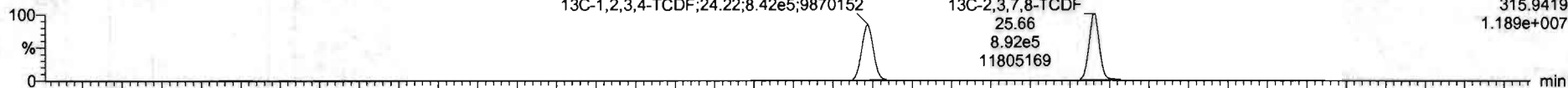


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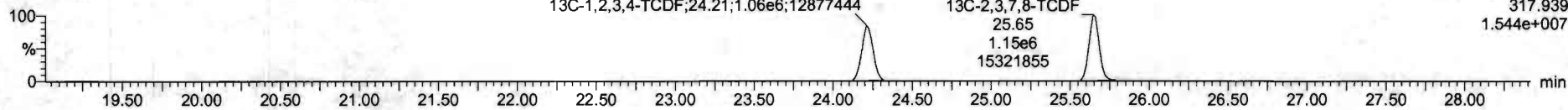


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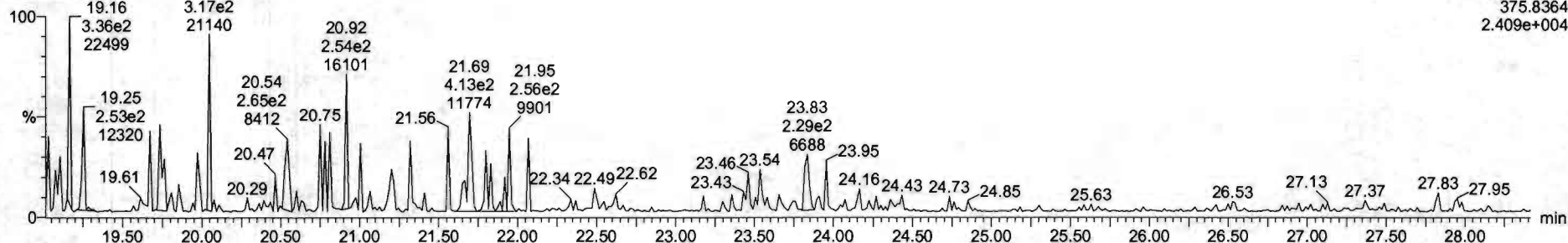


200528R2_4



DPE1

200528R2_4

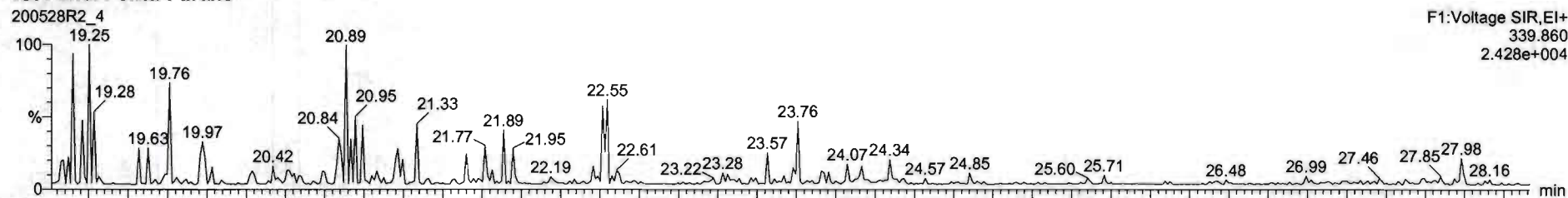


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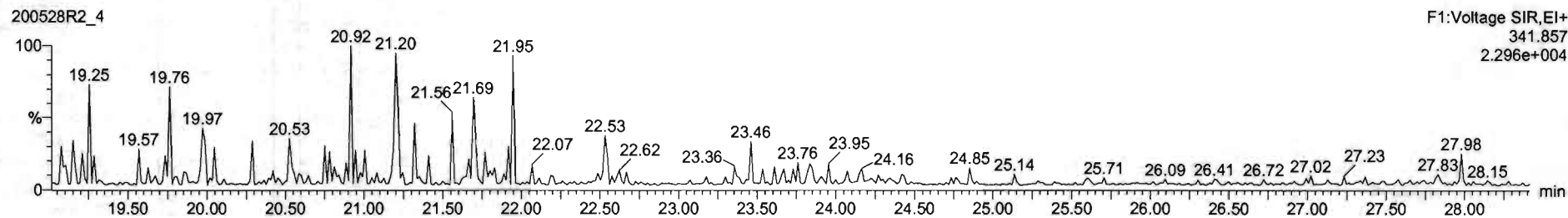
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1st Func. Penta-Furans

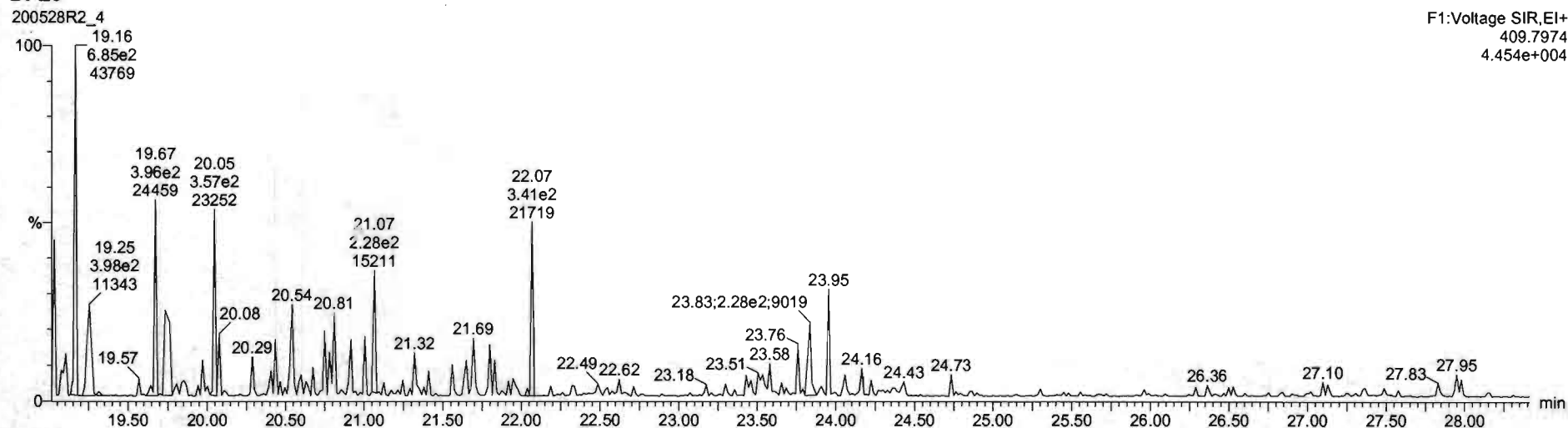


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339.860
2.428e+004



F1:Voltage SIR,EI+
341.857
2.296e+004

DPE6



F1:Voltage SIR,EI+
409.7974
4.454e+004

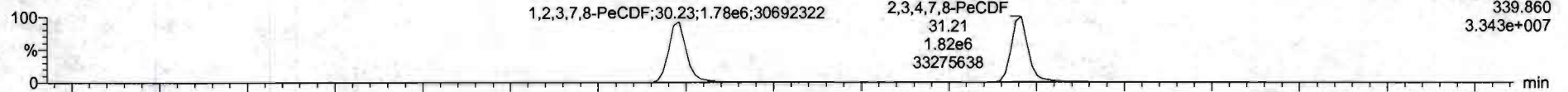
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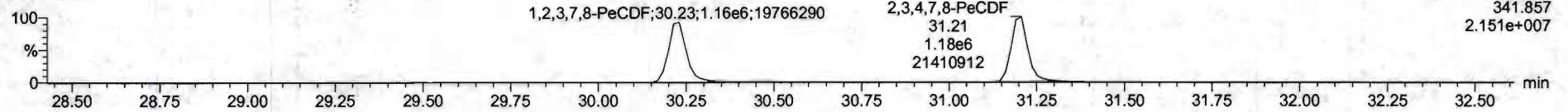
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200528R2_4

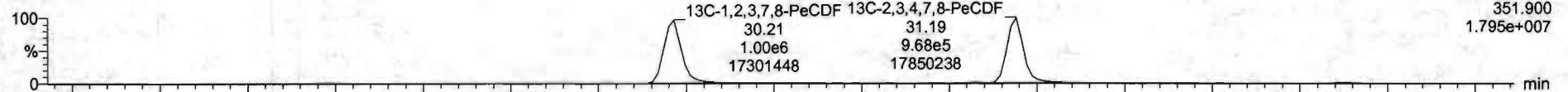


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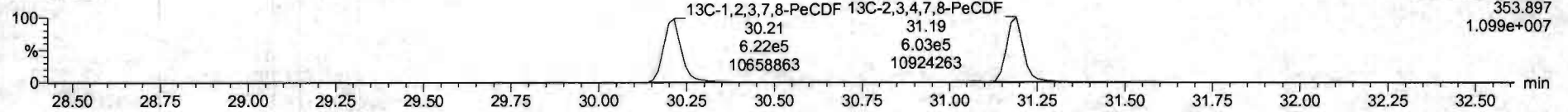


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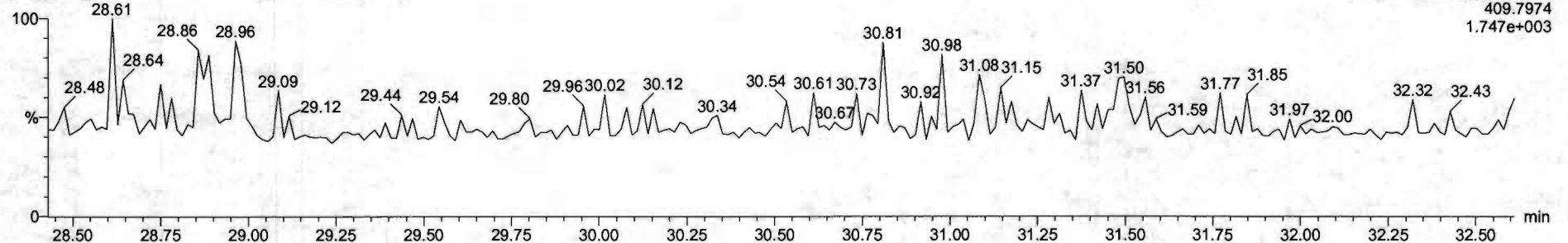


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DPE2

200528R2_4



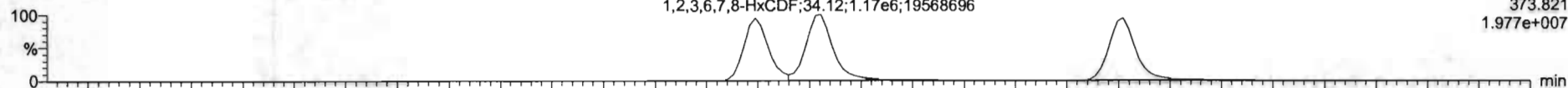
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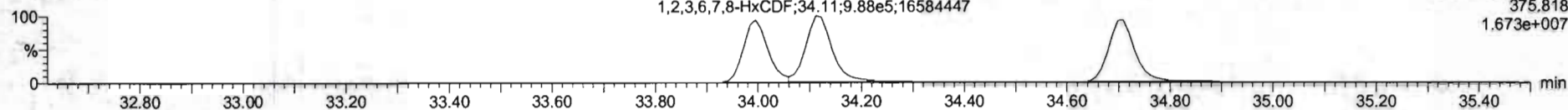
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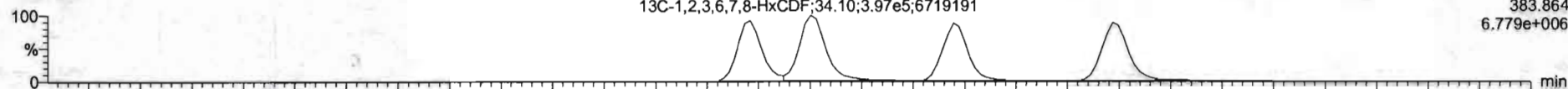


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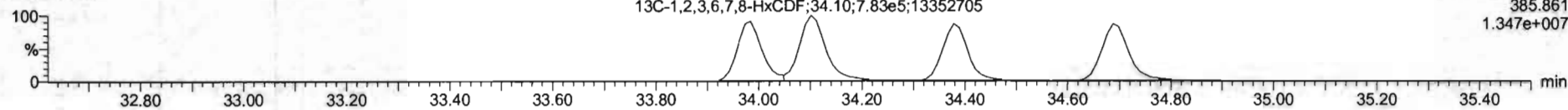


13C-1,2,3,4,7,8-HxCDF

200528R2_4

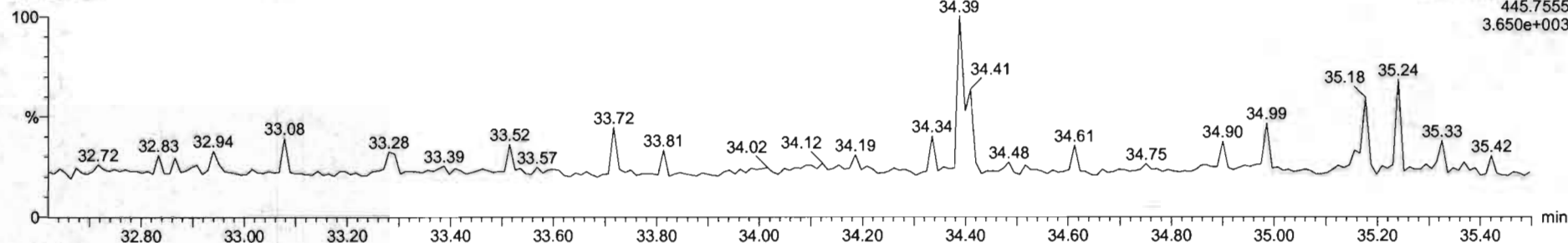


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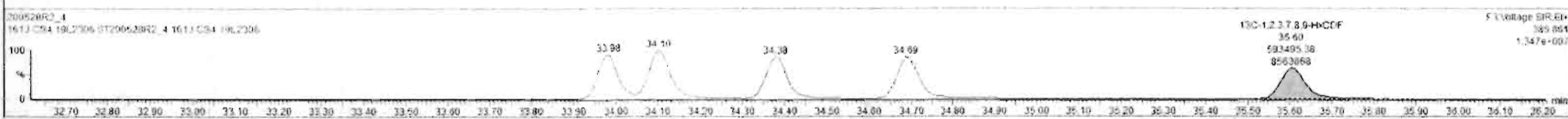
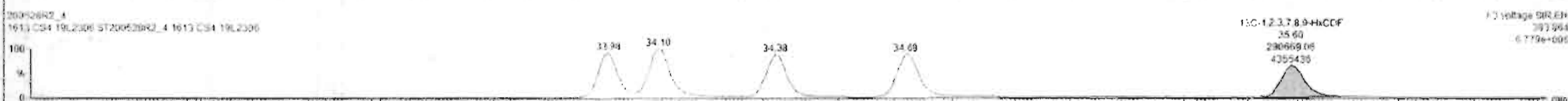


DPE3

200528R2_4



#	Name	Resp	RA	ntf	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	IRFC
1	1.2.3.7.8-TCDD	3.56e5	0.78	NO	0.2882	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	31.91	1.000	285	100	0.0837	209
3	1.2.3.4.7.8-HxCDD	1.67e6	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	240
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	397
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	105	0.199	204
11	1.2.3.4.7.8.9-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-HpCDF	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	1.60e6	1.28	NO	0.6787	1.000	35.62	1.001	290	104	0.313	290
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	0.6468	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	0.124	



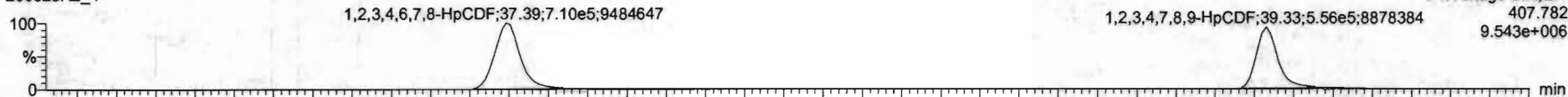
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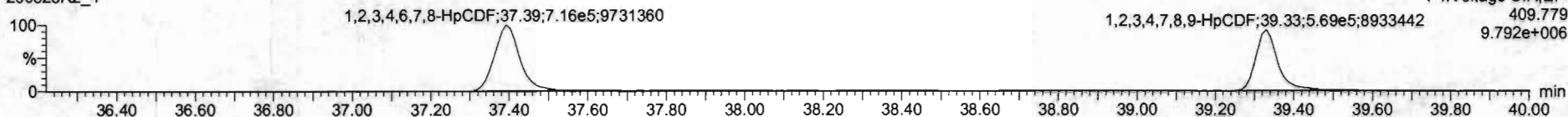
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1,2,3,4,6,7,8-HpCDF

200528R2_4

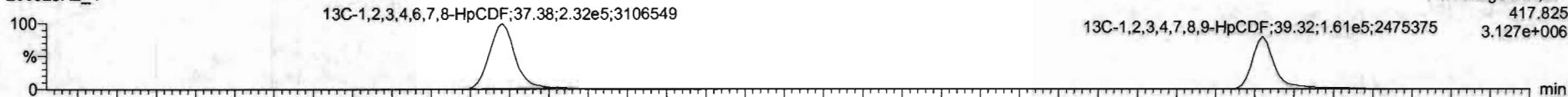


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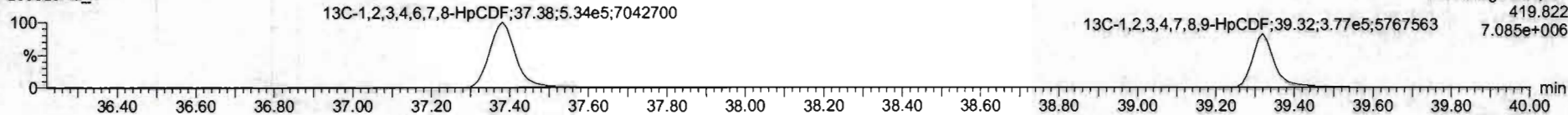


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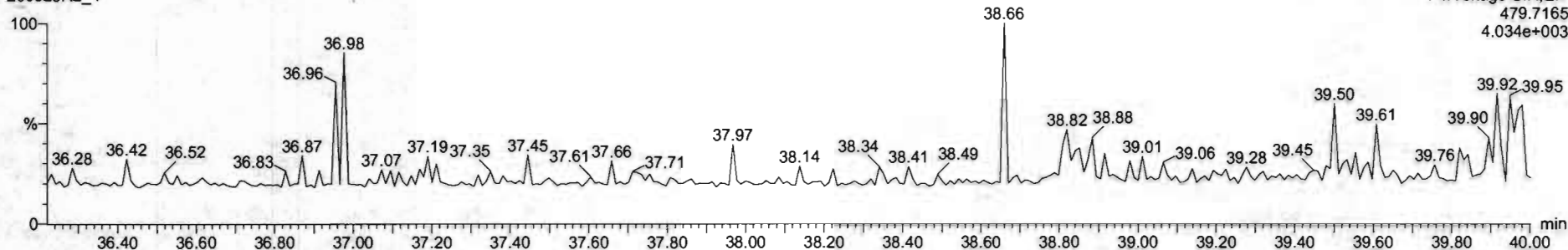


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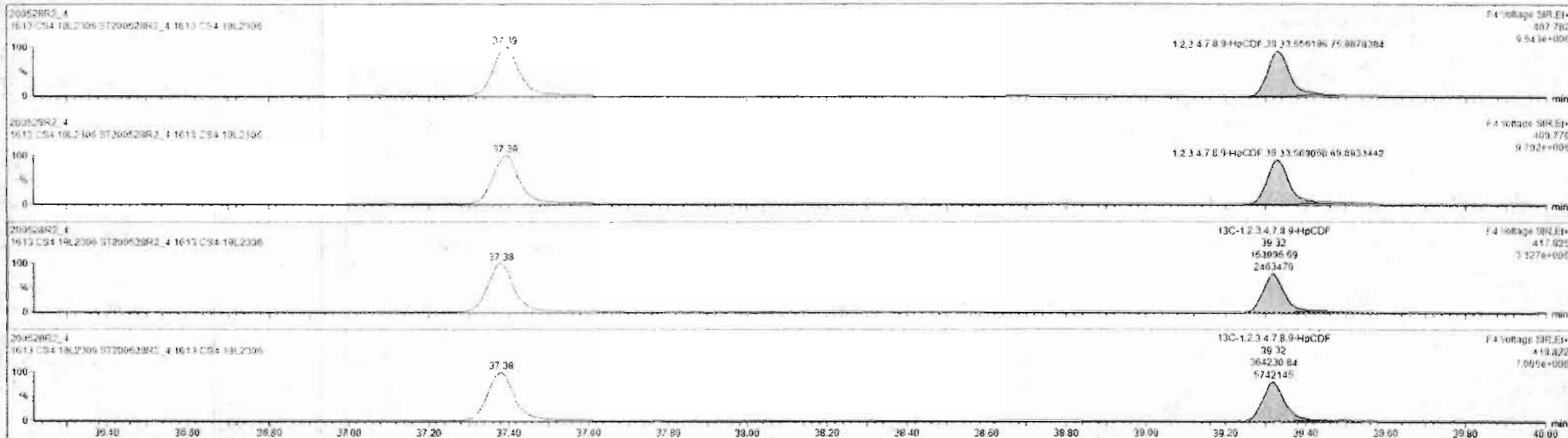


DPE4

200528R2_4



#	Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
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	0.8969	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	0.8631	1.000	36.90	1.000	211	105	0.219	211
7	OCDD	2.45e8	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	1,2,3,7,9-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	0.9346	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	1,2,3,4,6,7,9-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	2.54e8	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	107	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	0.132	
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	



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200528R2_4 CAP NUM

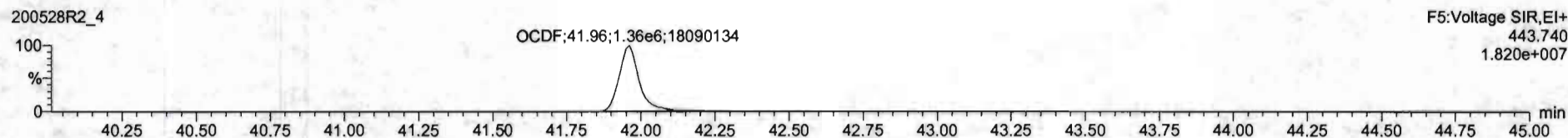
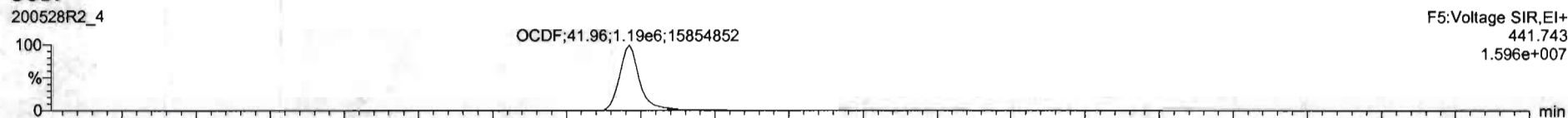
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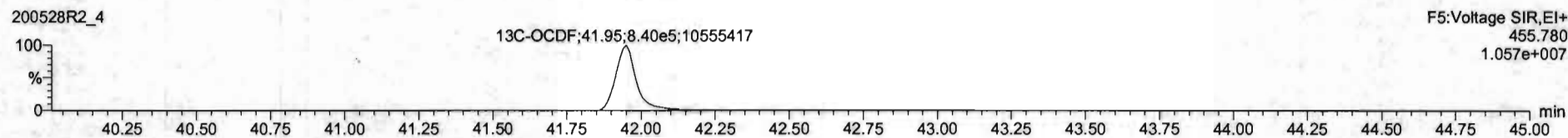
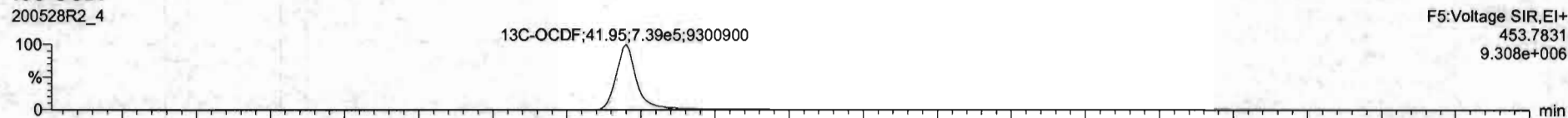
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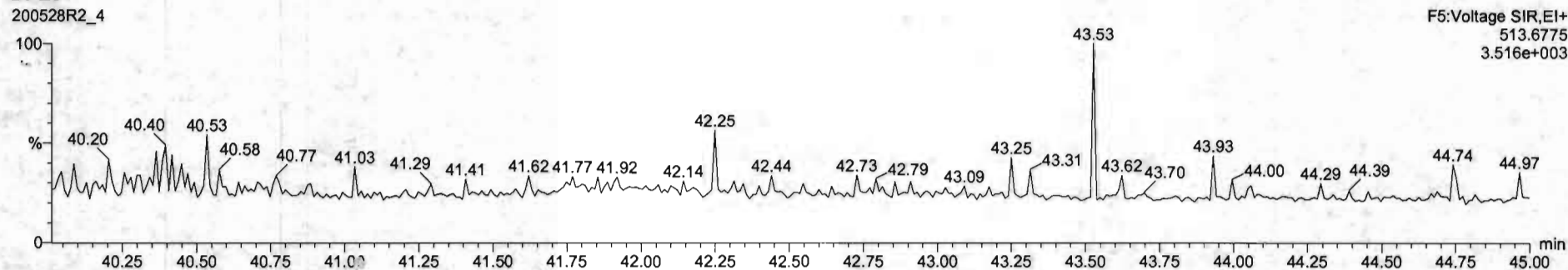
OCDF



13C-OCDF



DPE5



#	Name	Resp	RA	ny	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2.3.1.7.5-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	1.2.3.4.7.5-HxCDD	1.07e6	1.23	NO	1.0334	1.000	34.85	1.001	204	102	0.115	204
4	1.2.3.6.7.5-HxCDF	1.92e6	1.22	NO	0.9521	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.5-HxCDD	1.76e6	1.20	NO	0.9265	1.000	35.26	1.000	210	105	0.123	210
6	1.2.3.4.8.7.5-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	2.3.7.6-TCDF	0.52e5	0.76	NO	0.7510	1.000	25.05	1.001	42.0	107	0.127	42.0
9	1.2.3.7.5-HxCDF	2.94e6	1.54	NO	0.8925	1.000	30.21	1.000	203	101	0.118	203
10	1.2.4.7.5-HxCDF	2.00e6	1.54	NO	0.9349	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.5-HxCDF	1.87e6	1.18	NO	0.8945	1.000	32.99	1.000	208	104	0.221	208
12	1.2.3.6.7.5-HxCDF	2.16e6	1.18	NO	0.8952	1.000	34.12	1.001	206	103	0.203	206
13	2.3.4.6.7.5-HxCDF	2.08e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.5.9-HxCDF	1.60e6	1.20	NO	0.8757	1.000	35.42	1.001	205	104	0.213	205
15	1.2.3.4.6.7.5-HpCDF	1.43e6	0.96	NO	0.8734	1.000	37.35	1.000	213	106	0.213	213
16	1.2.3.4.7.5.9-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	1.3C-2.3.7.5-TCDD	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	102	101	0.164	
19	13C-1.2.3.7.5-PeCDD	0.11e6	0.84	NO	0.8496	1.000	31.50	1.210	103	103	0.130	
20	13C-1.2.3.4.7.5-HxCDD	7.89e6	1.20	NO	0.7790	1.000	34.96	1.214	103	103	0.172	
21	13C-1.2.3.6.7.5-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



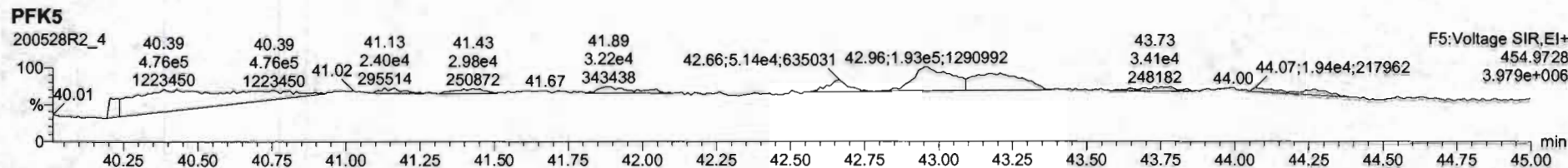
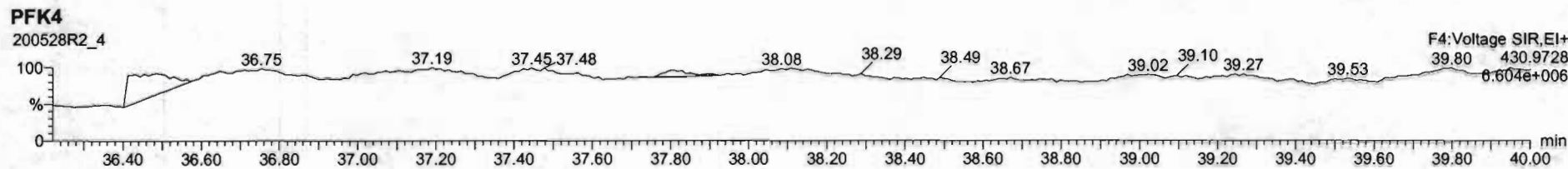
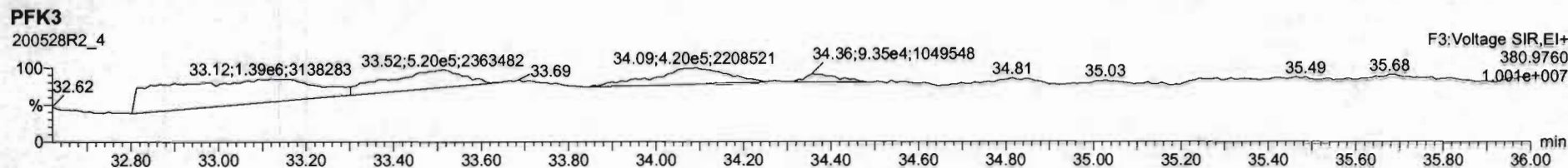
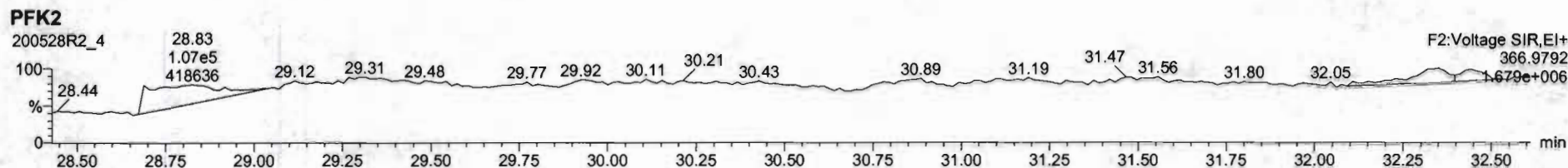
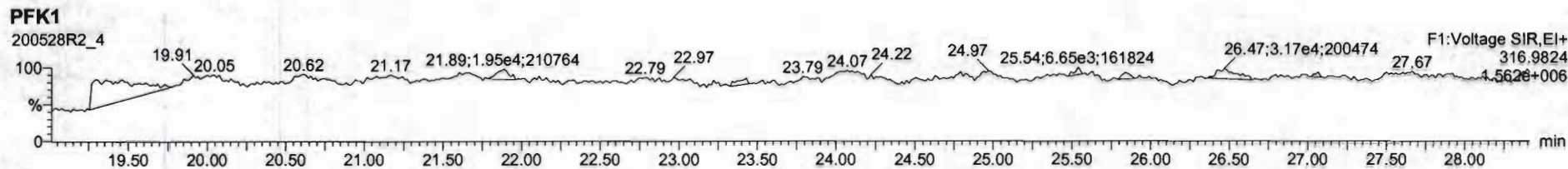
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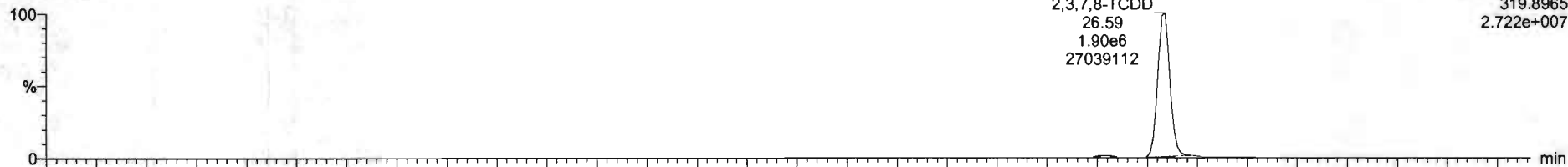
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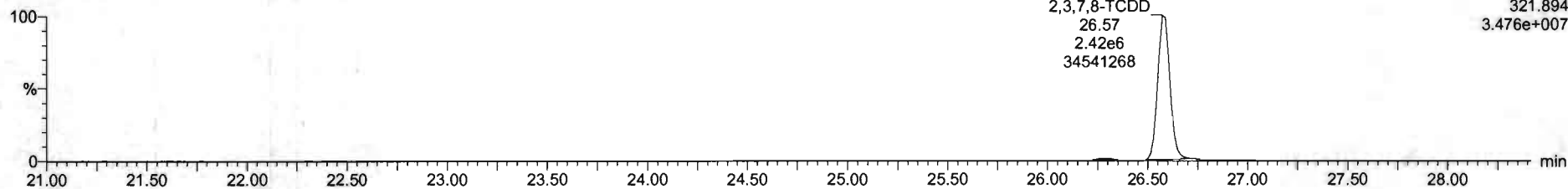
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2,3,7,8-TCDD

200528R2_5

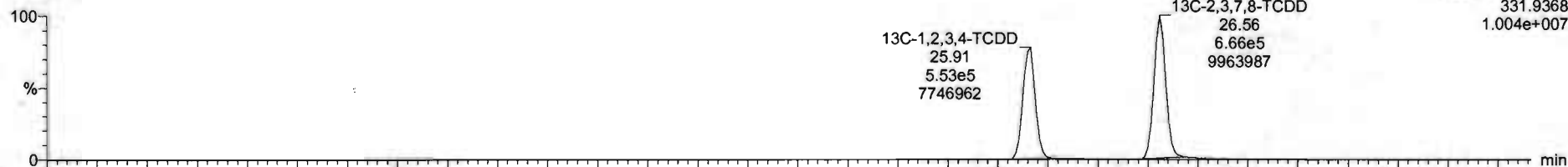


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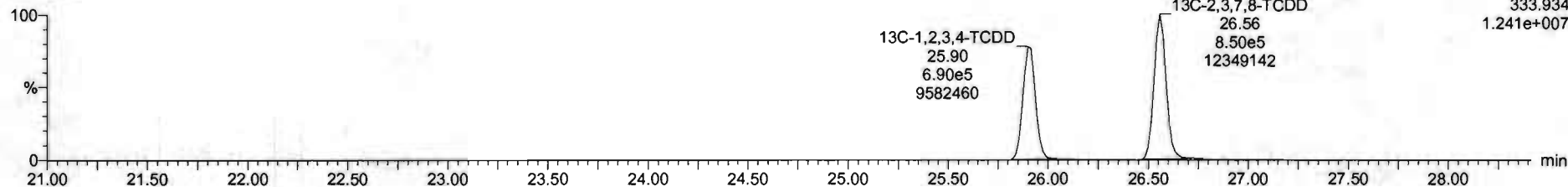


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200528R2_5



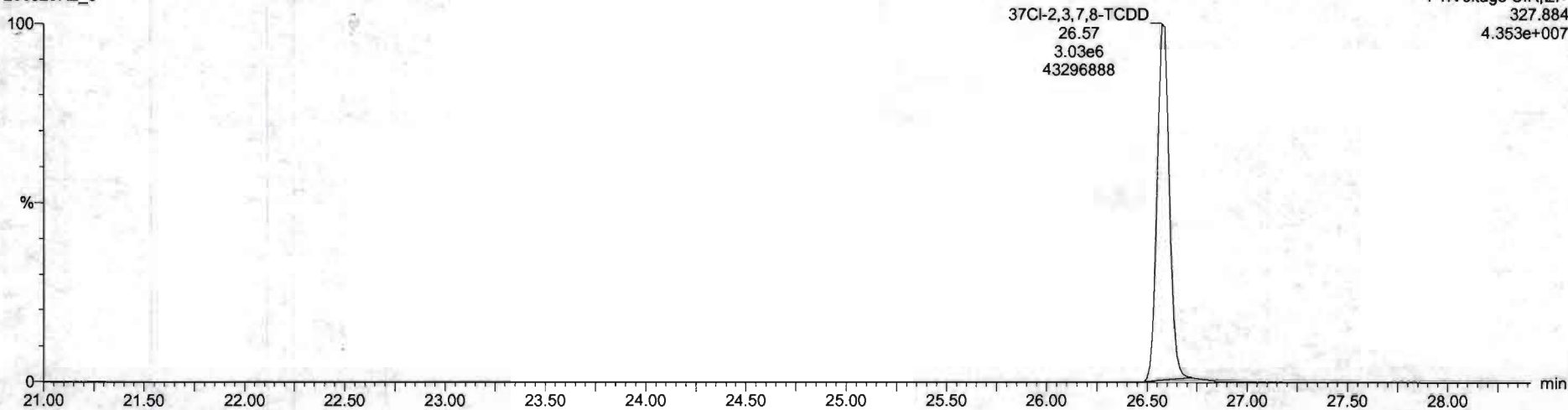
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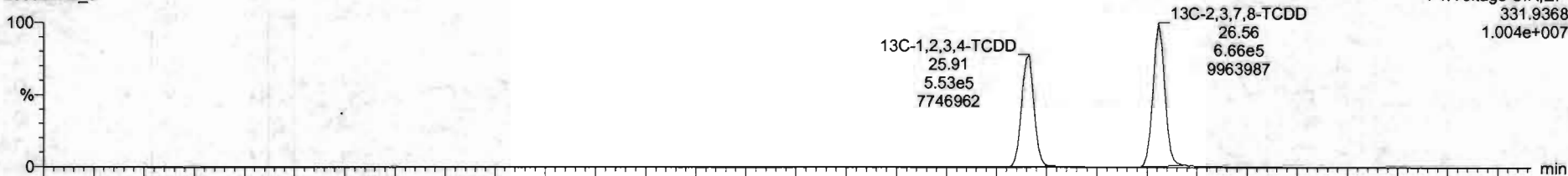
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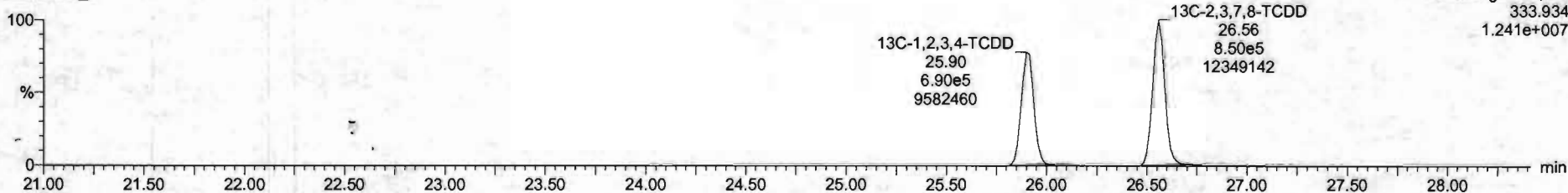


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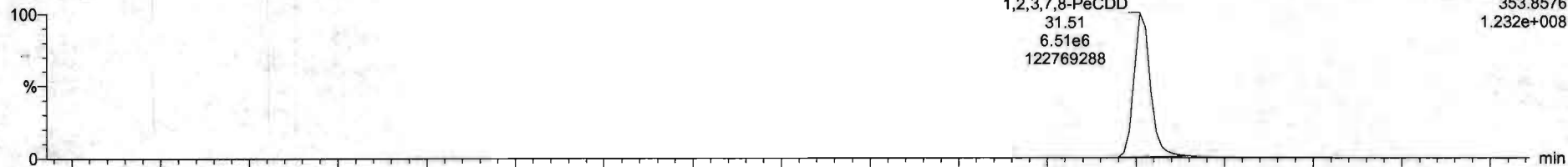
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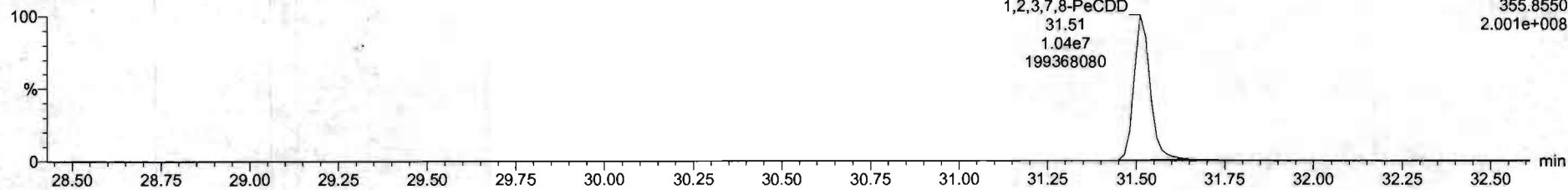
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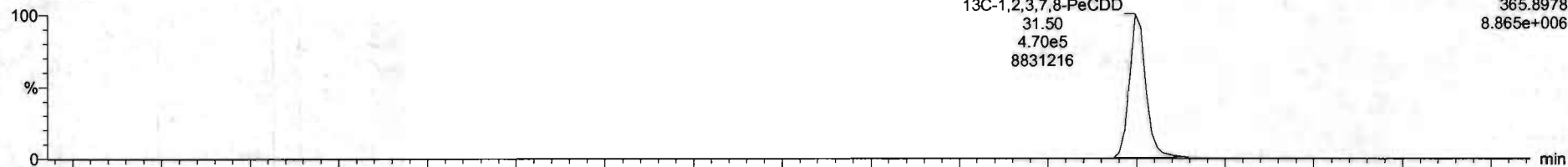


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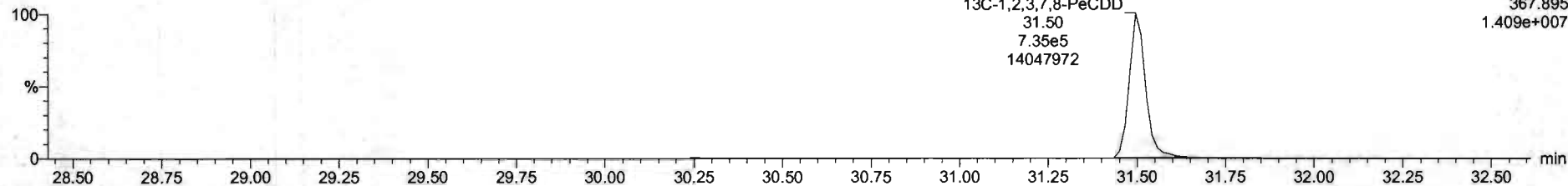


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200528R2_5



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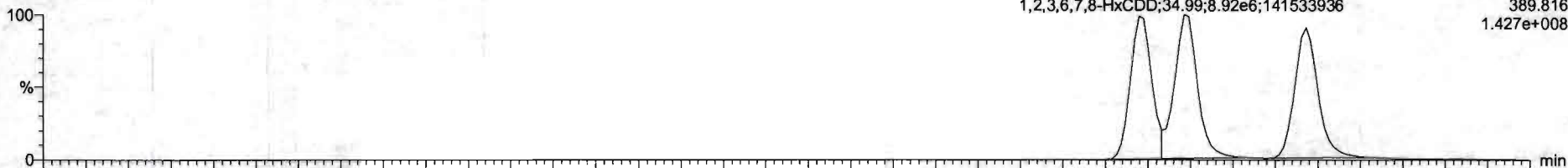
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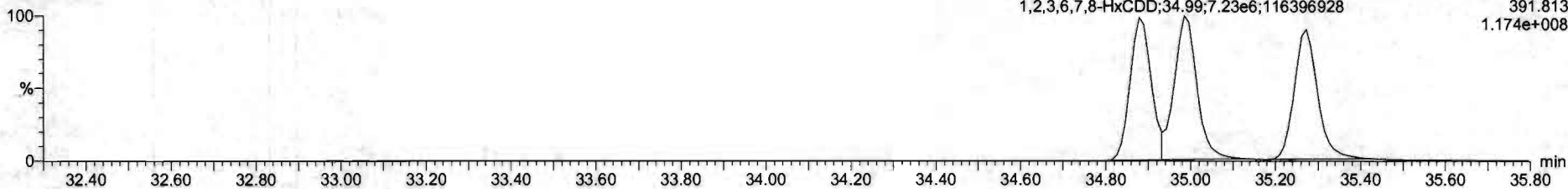
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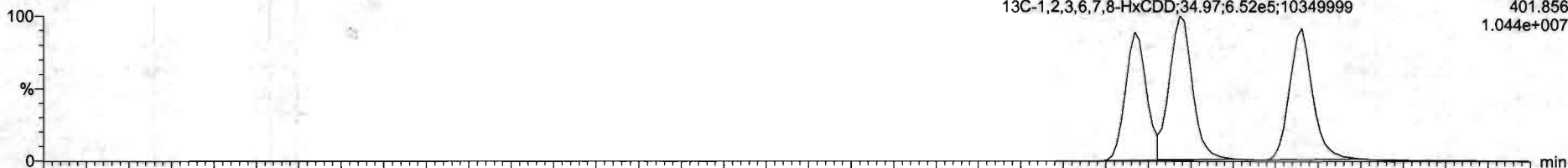
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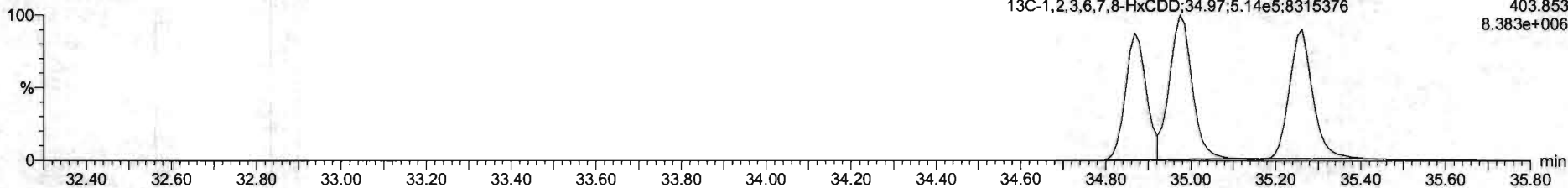
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200528R2_5



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1.044e+007

200528R2_5



F3:Voltage SIR,EI+
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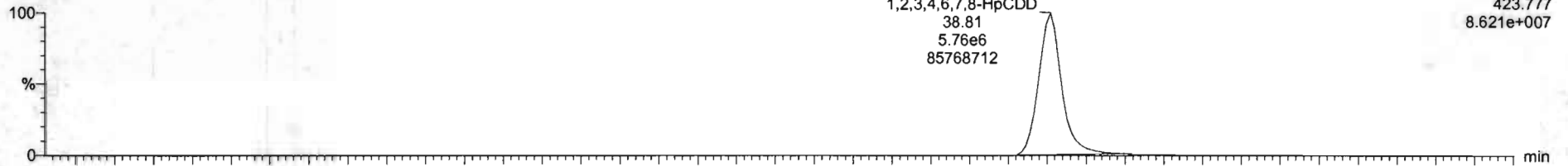
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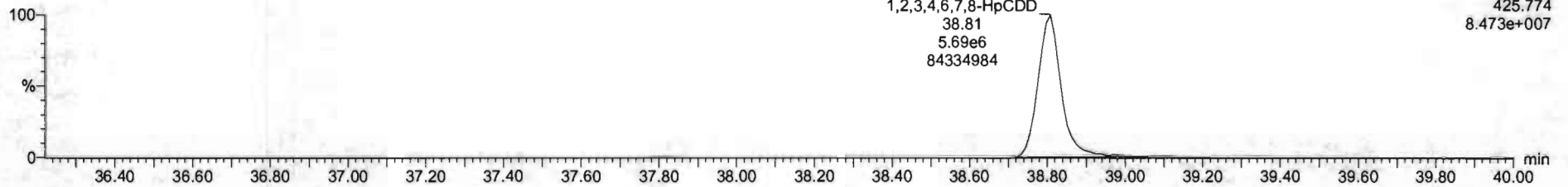
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1,2,3,4,6,7,8-HpCDD

200528R2_5

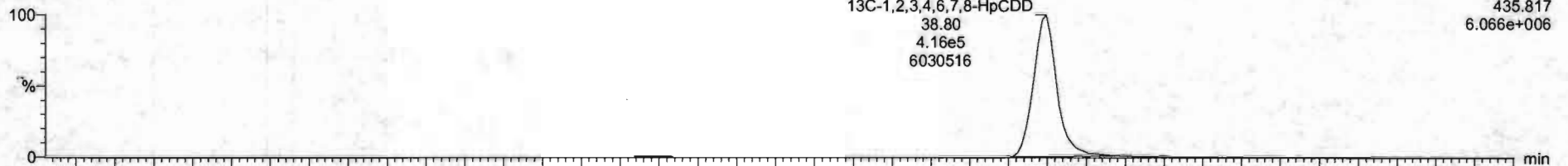


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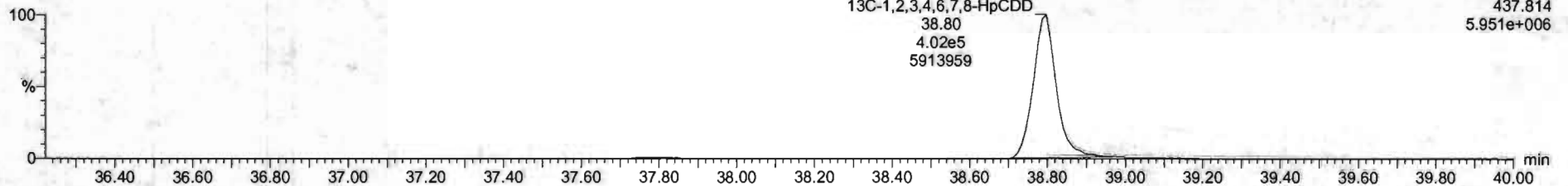


13C-1,2,3,4,6,7,8-HpCDD

200528R2_5



200528R2_5



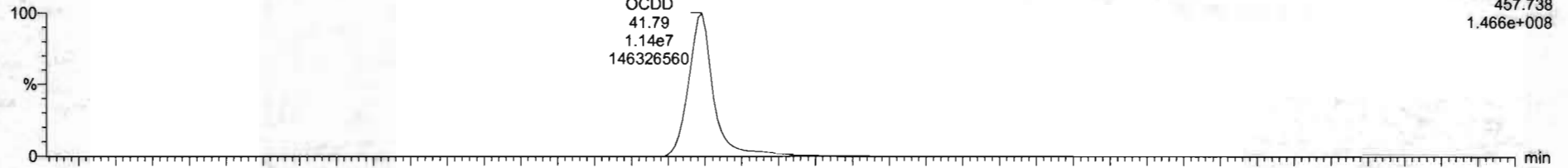
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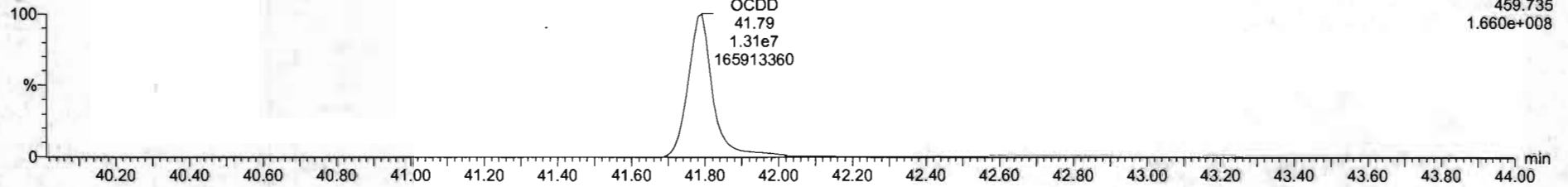
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OCDD

200528R2_5

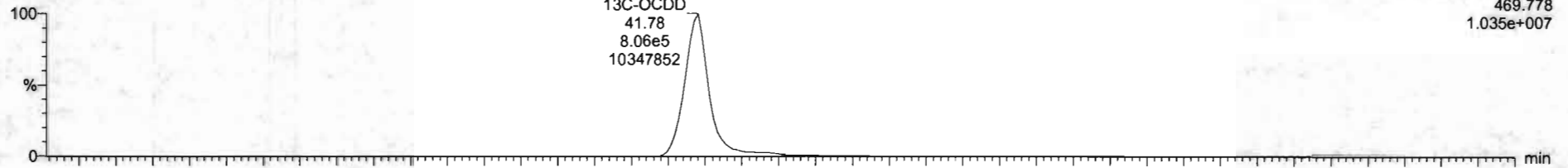


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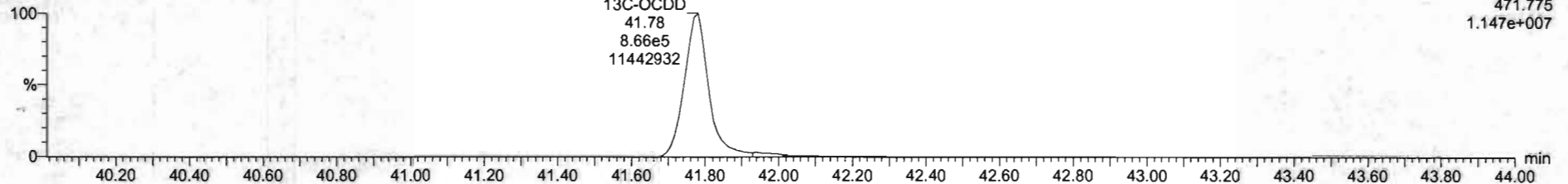


13C-OCDD

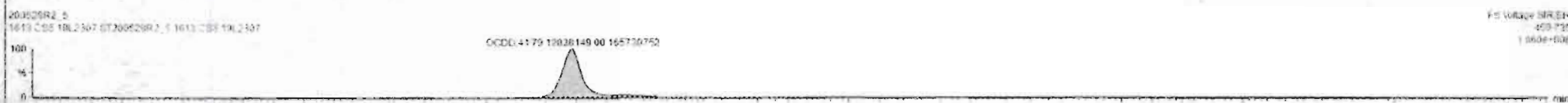
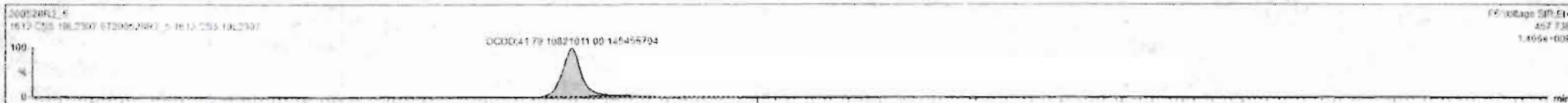
200528R2_5



200528R2_5



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1	2.3.7.8-TCD0	4.52e7	0.76	NO	0.6883	1.000	26.95	1.001	321	107	0.0111	321
2	1.2.3.7.8-FluCD0	1.59e7	0.63	NO	0.9051	1.000	31.61	1.000	1550	103	0.124	1550
3	1.2.3.4.7.8-HuCD0	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-HuCD0	1.61e7	1.21	NO	0.9523	1.000	34.99	1.000	1550	103	0.142	1550
5	1.2.3.7.8.9-HuCD0	1.47e7	1.23	NO	0.9265	1.000	30.27	1.000	1570	104	0.107	1570
6	1.2.3.4.6.7.8-HuCD0	1.15e7	1.01	NO	0.8639	1.000	36.61	1.000	1620	105	0.161	1620
7	OCDD	2.37e7	6.84	NO	0.9138	1.000	41.79	1.000	3100	103	0.379	3100
8	2.3.7.6-TCD0	0.00e0	0.75	NO	0.7510	1.000	25.65	1.001	320	105	0.0600	320
9	1.2.3.7.8-PeCDF	2.39e7	1.54	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	31.21	1.000	1550	101	0.213	1550
11	1.2.3.4.7.8-HuCDF	1.61e7	1.19	NO	0.8644	1.000	34.01	1.000	1590	106	0.103	1590
12	1.2.3.6.7.8-HuCDF	1.06e7	1.19	NO	0.8092	1.000	34.72	1.000	1530	101	0.0927	1530
13	2.3.4.6.7.8-HuCDF	1.72e7	1.19	NO	0.9341	1.000	34.72	1.001	1560	104	0.152	1560
14	1.2.3.7.8.9-HuCDF	1.49e7	1.26	NO	0.6707	1.000	35.63	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	37.40	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	39.34	1.000	1620	103	0.215	1620
17	OCDF	2.39e7	6.05	NO	0.8085	1.000	41.95	1.000	3090	101	0.250	3090
18	13C-2.3.7.8-TCD0	1.52e6	0.76	NO	1.1583	1.000	26.96	1.026	100	106	0.0720	100
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	114
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	110
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	113



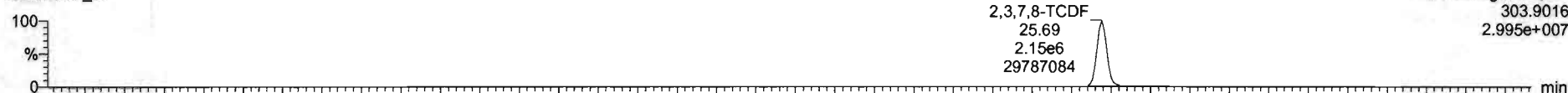
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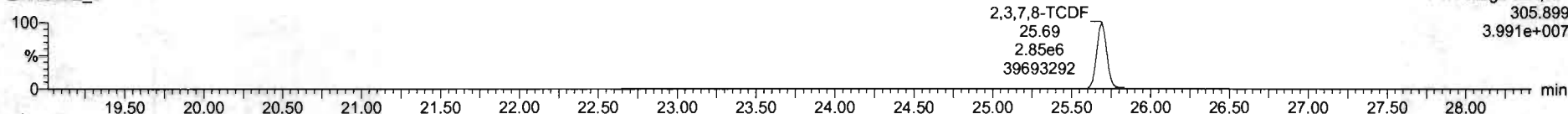
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2,3,7,8-TCDF

200528R2_5

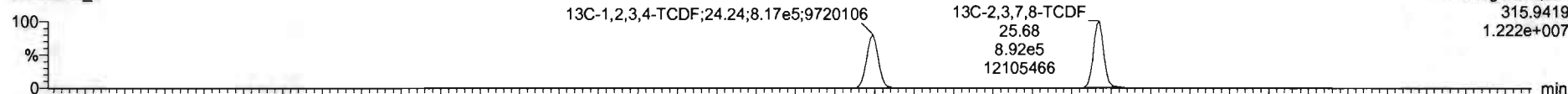


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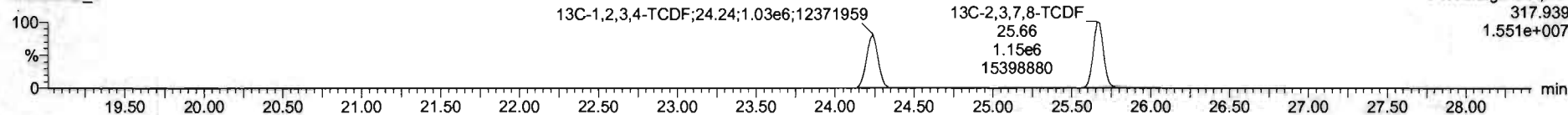


13C-2,3,7,8-TCDF

200528R2_5

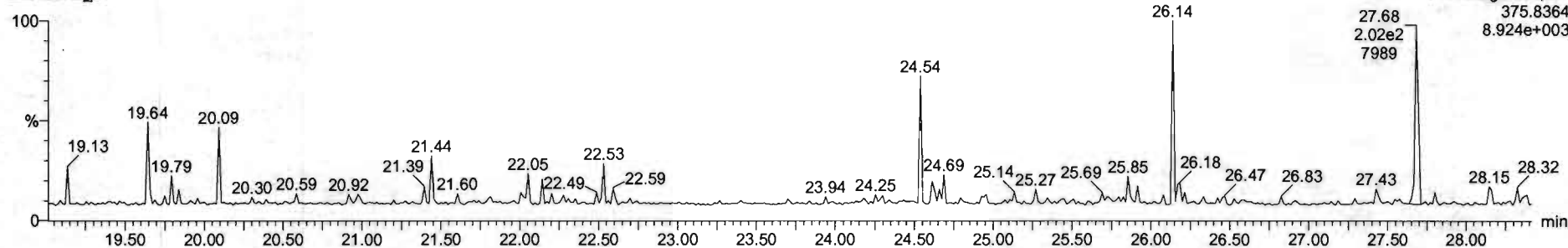


200528R2_5



DPE1

200528R2_5



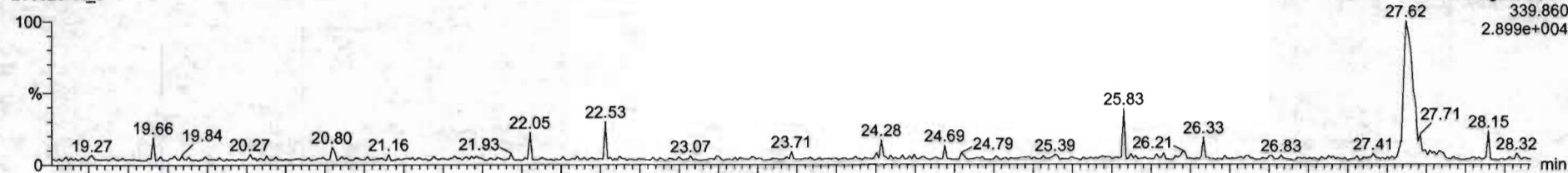
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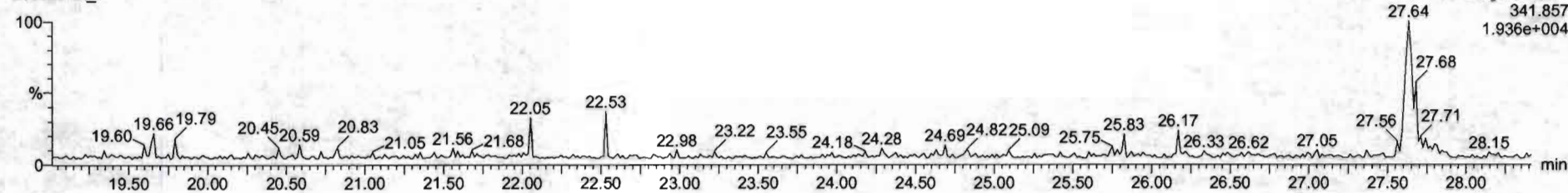
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200528R2_5

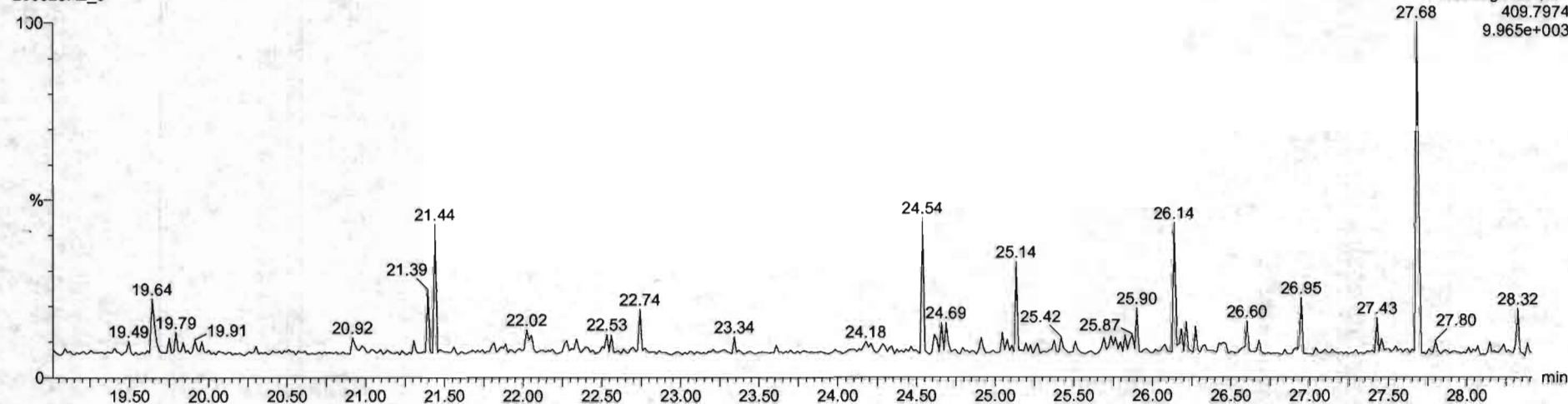


200528R2_5



DPE6

200528R2_5



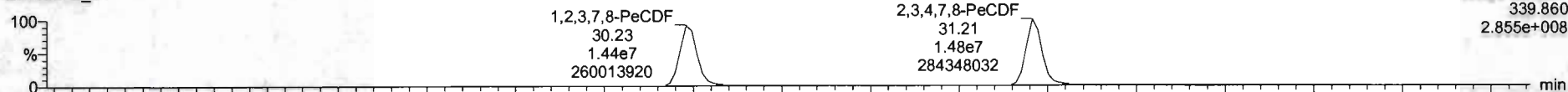
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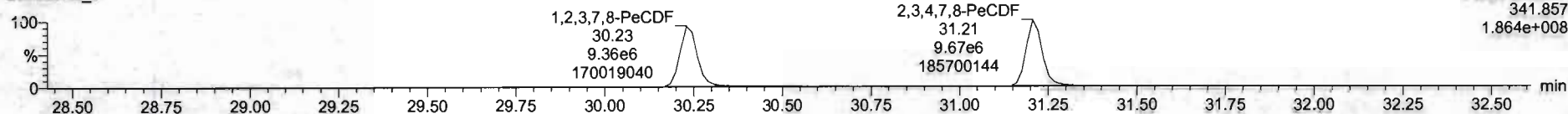
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1,2,3,7,8-PeCDF

200528R2_5

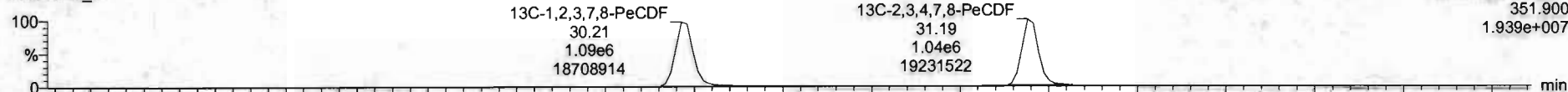


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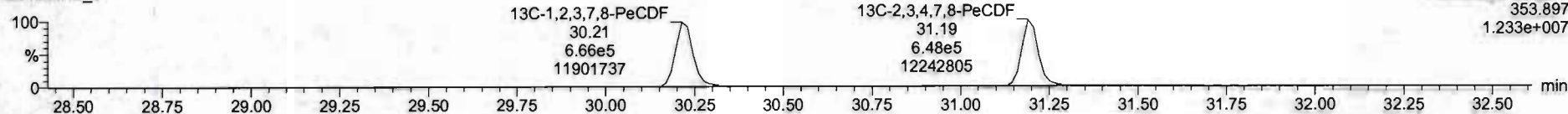


13C-1,2,3,7,8-PeCDF

200528R2_5

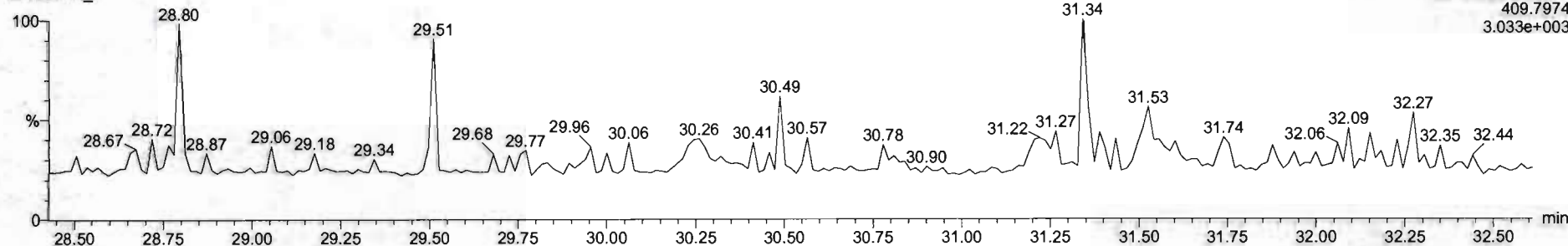


200528R2_5



DPE2

200528R2_5



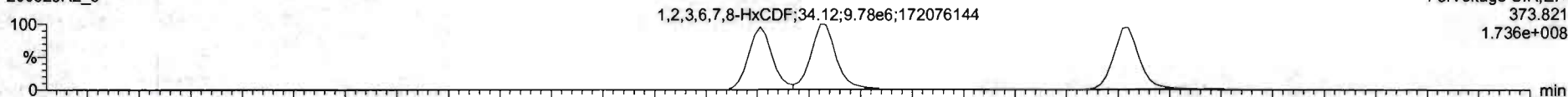
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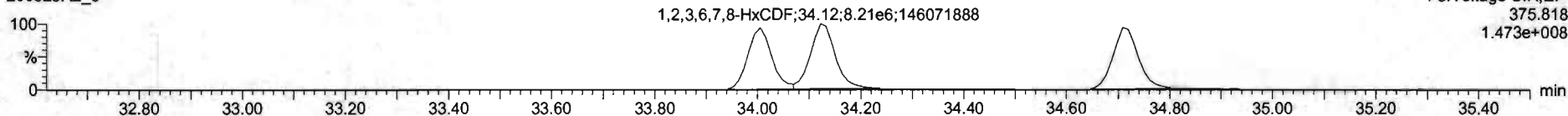
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1,2,3,4,7,8-HxCDF

200528R2_5

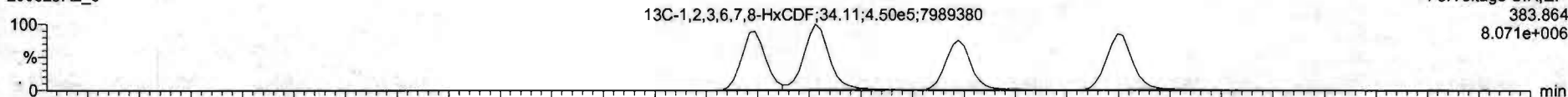


200528R2_5

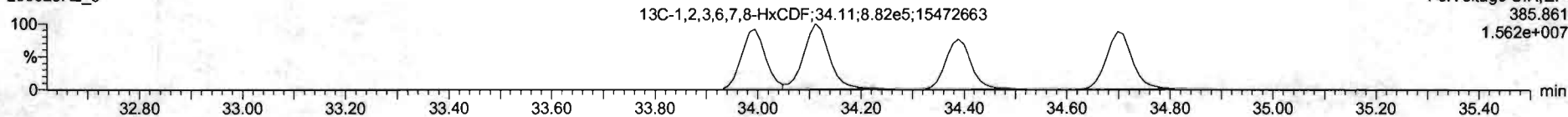


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200528R2_5

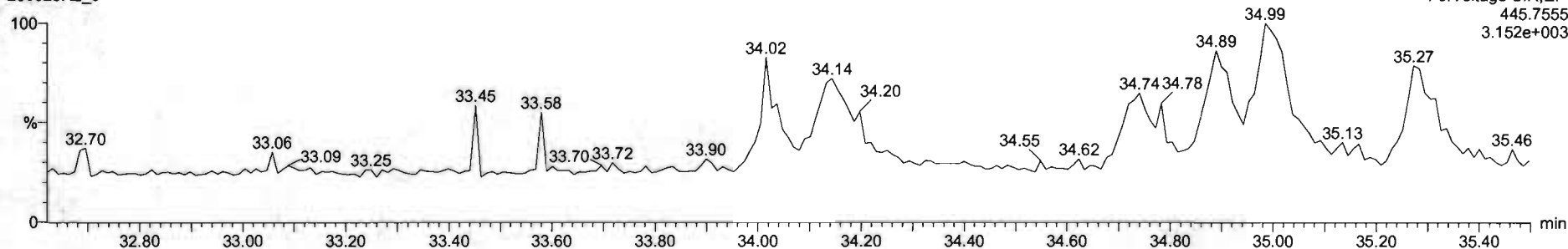


200528R2_5



DPE3

200528R2_5



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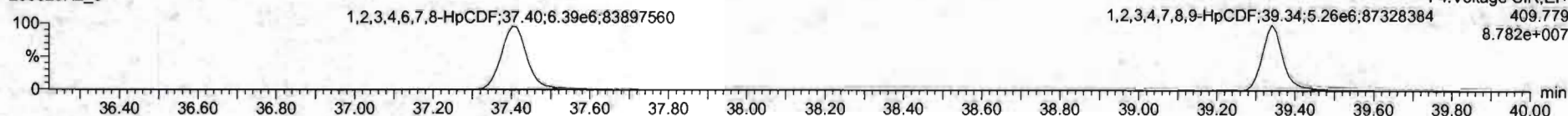
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1,2,3,4,6,7,8-HpCDF

200528R2_5

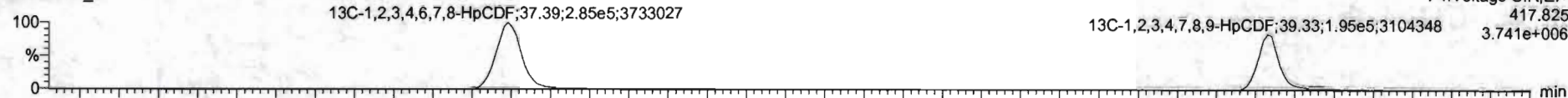


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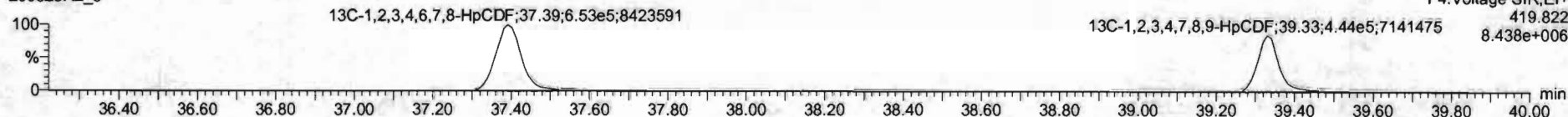


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200528R2_5

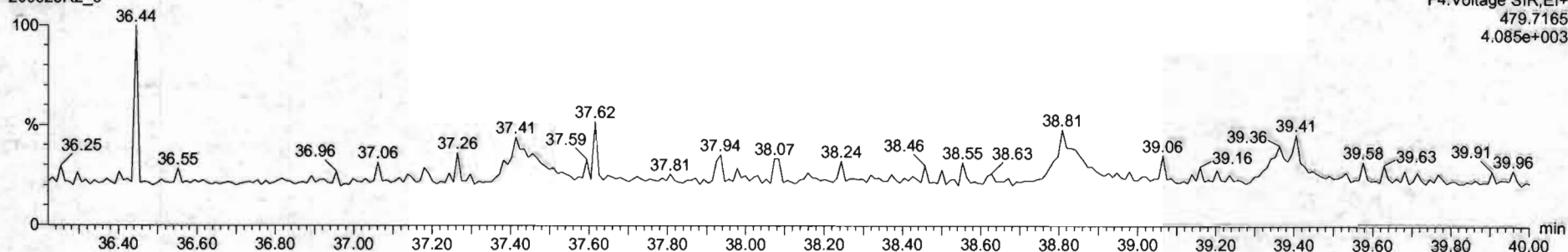


200528R2_5



DPE4

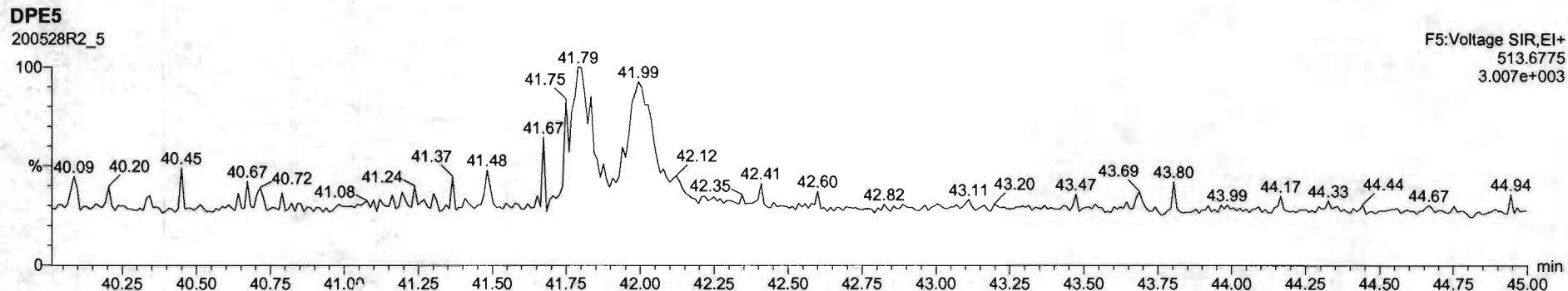
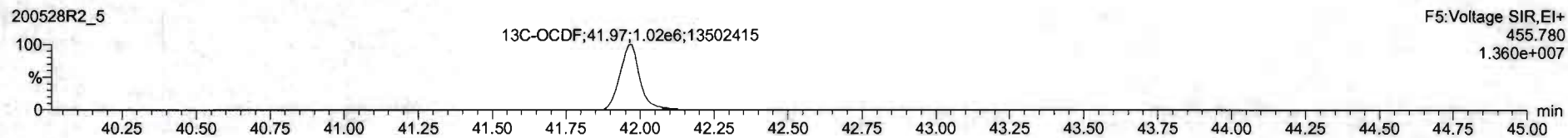
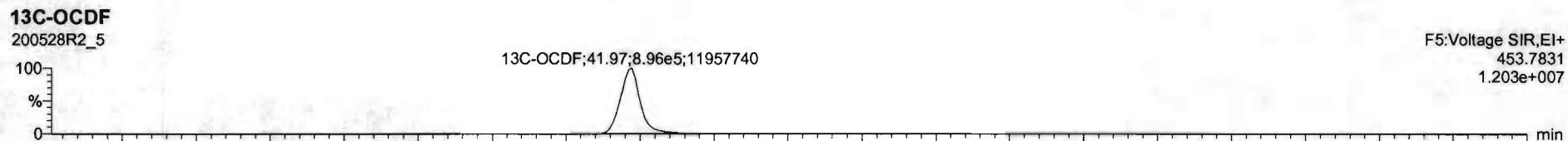
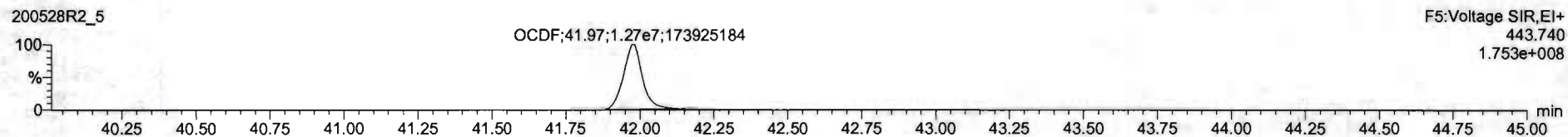
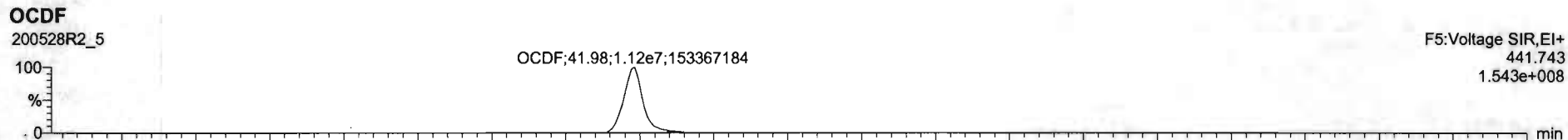
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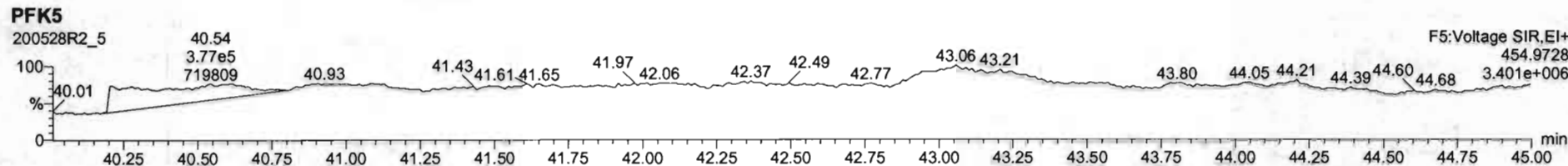
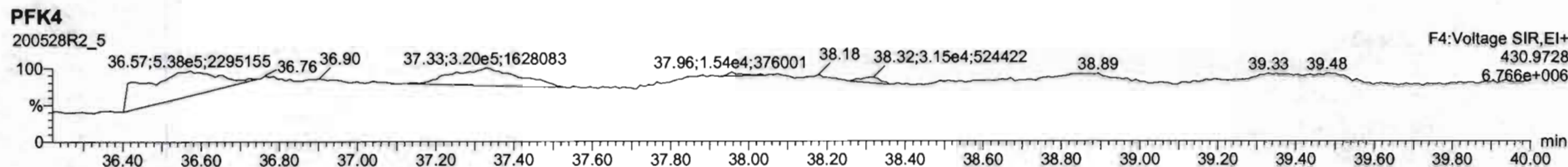
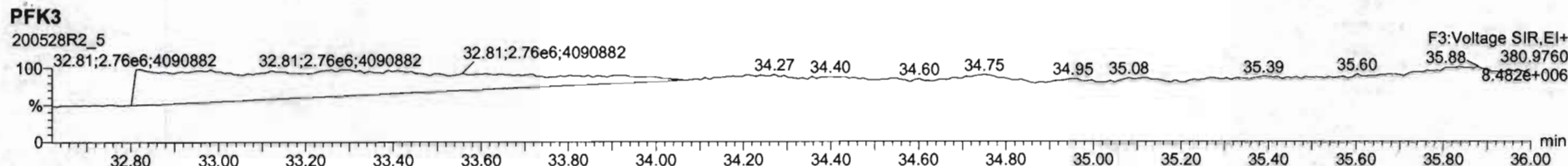
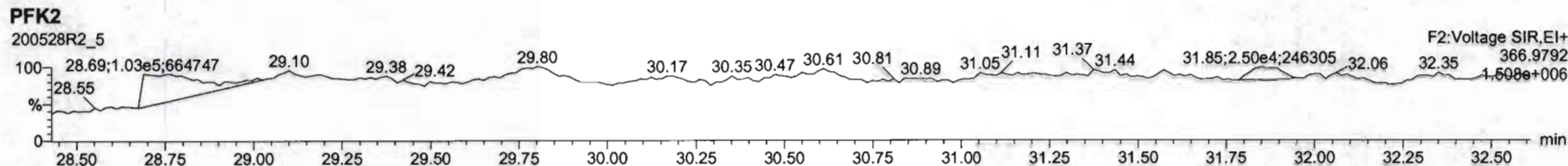
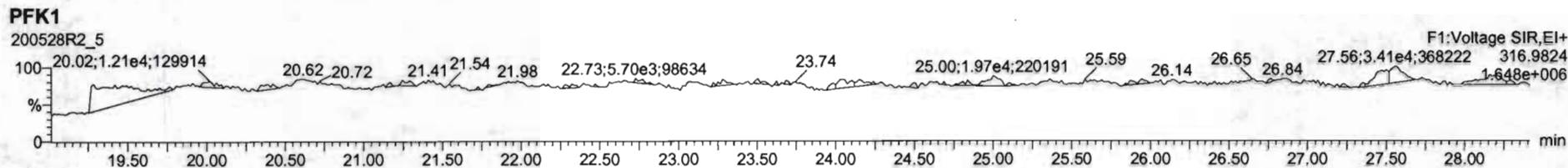
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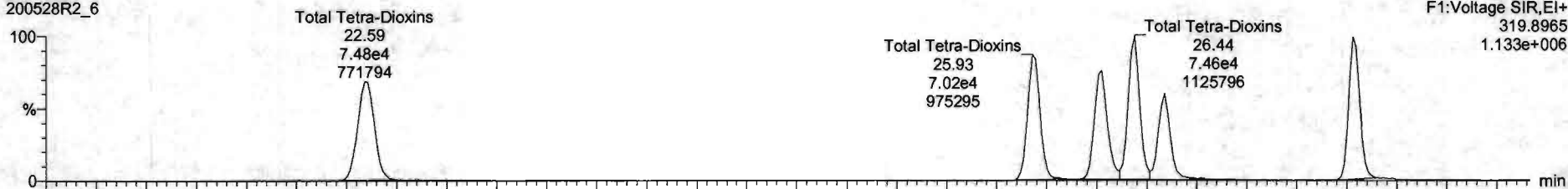
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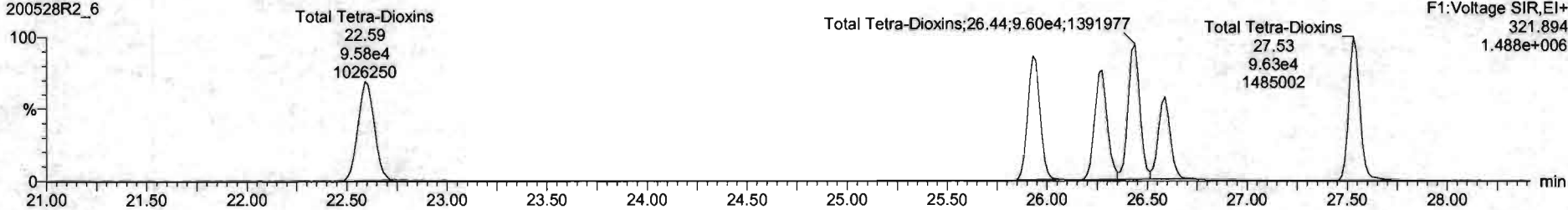
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2,3,7,8-TCDD

200528R2_6

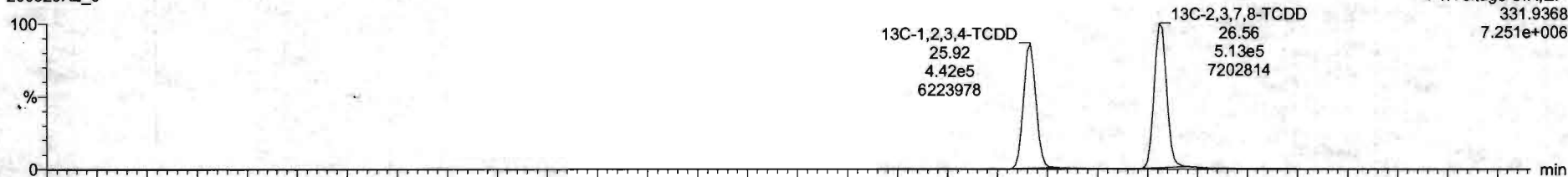


200528R2_6

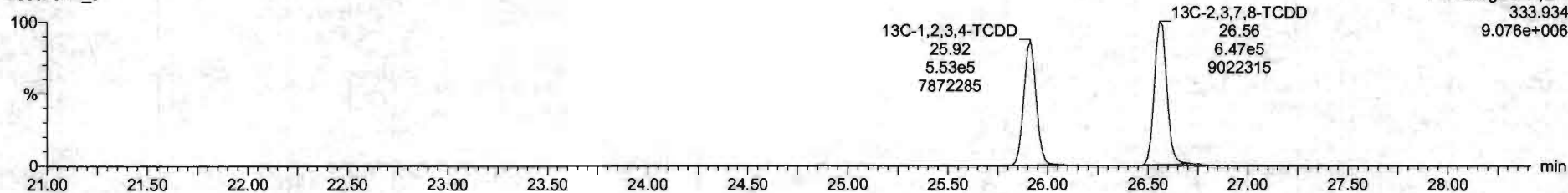


13C-2,3,7,8-TCDD

200528R2_6



200528R2_6



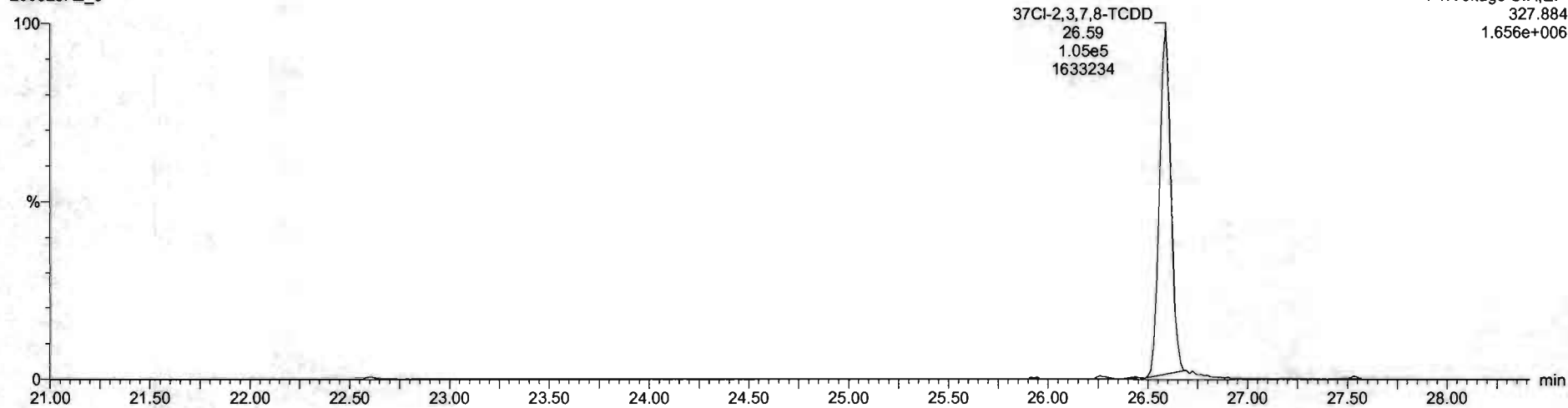
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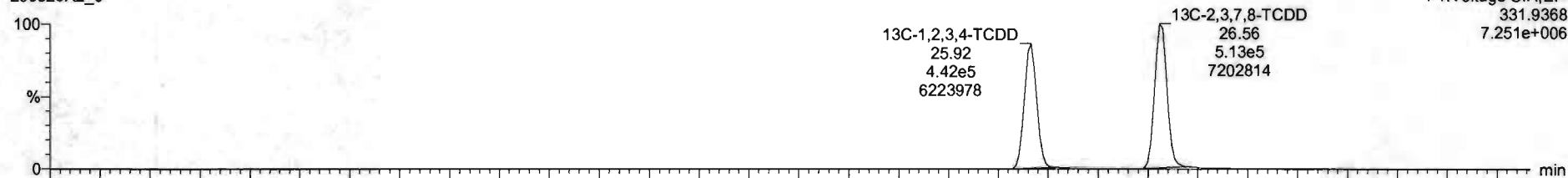
37Cl-2,3,7,8-TCDD

200528R2_6

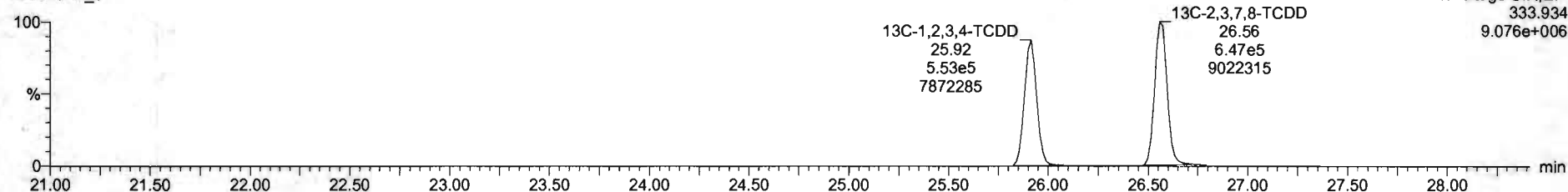


13C-1,2,3,4-TCDD

200528R2_6



200528R2_6



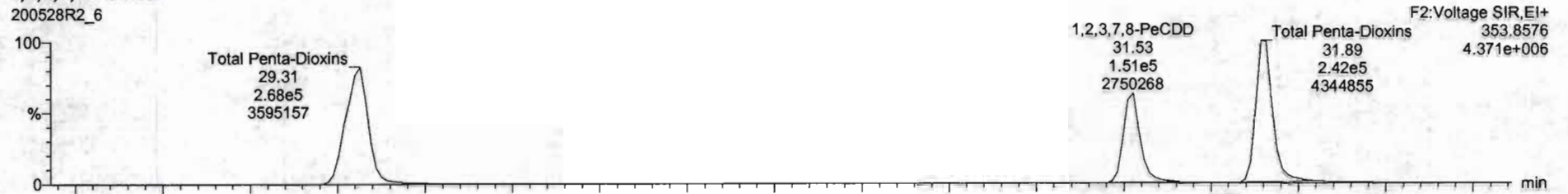
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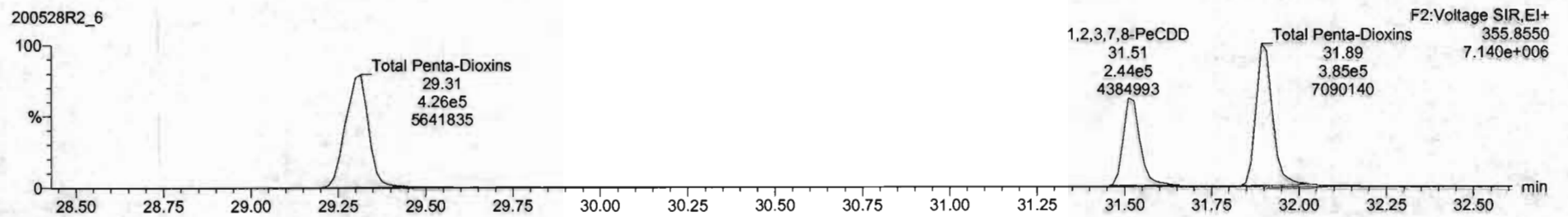
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1,2,3,7,8-PeCDD

200528R2_6

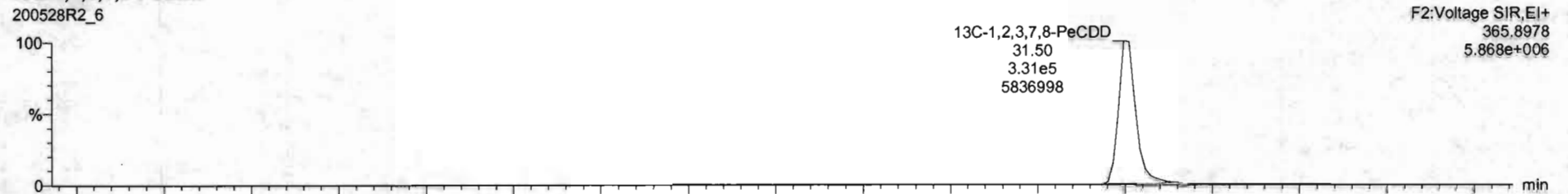


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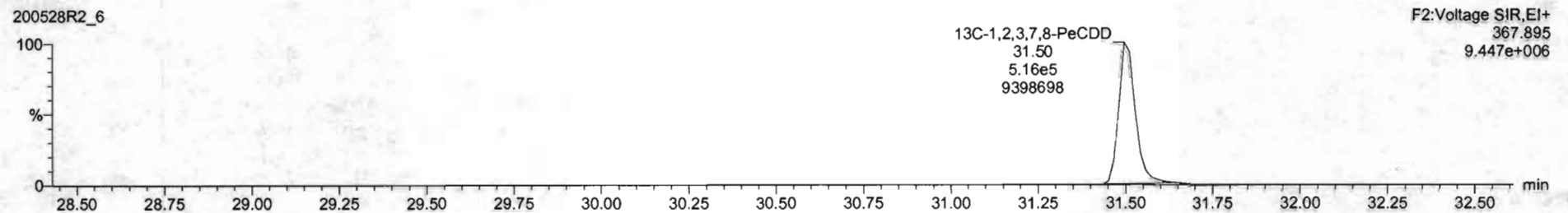


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200528R2_6



200528R2_6



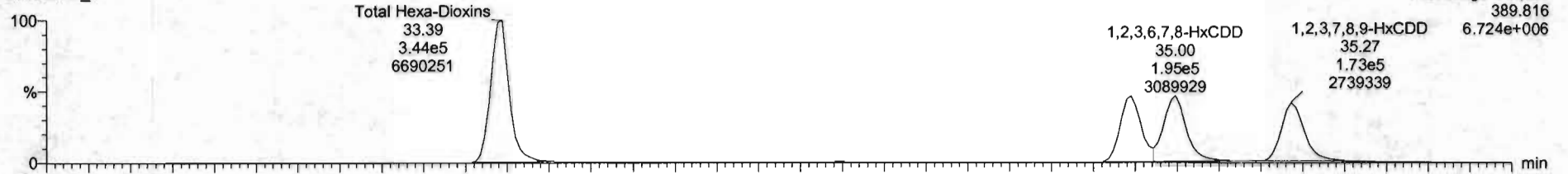
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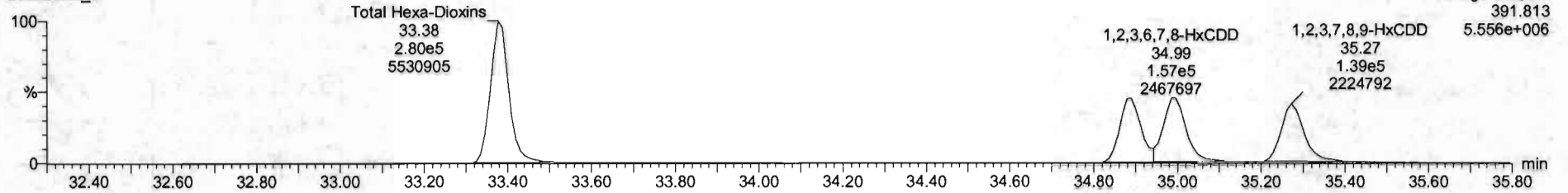
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1,2,3,4,7,8-HxCDD

200528R2_6

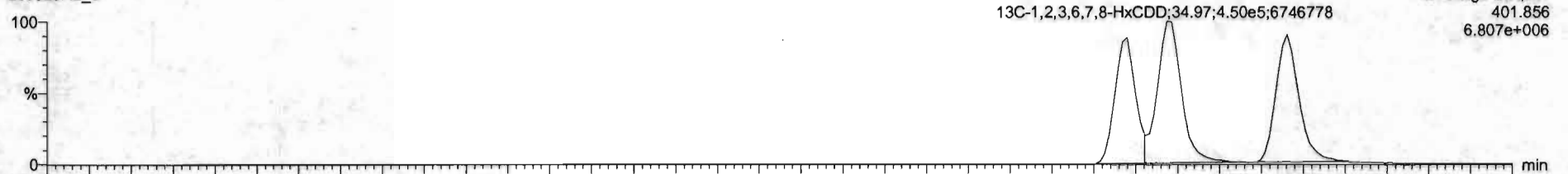


200528R2_6

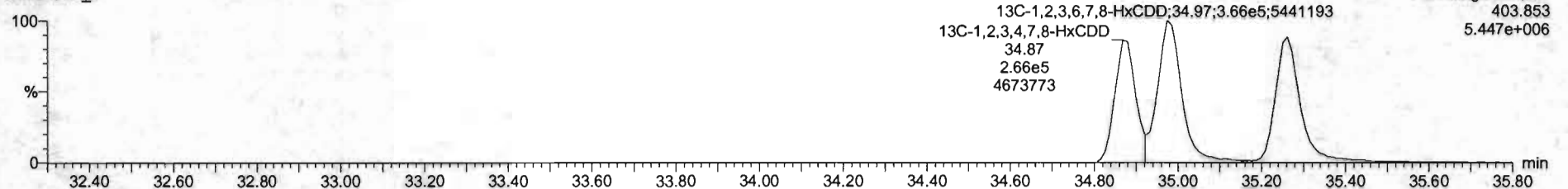


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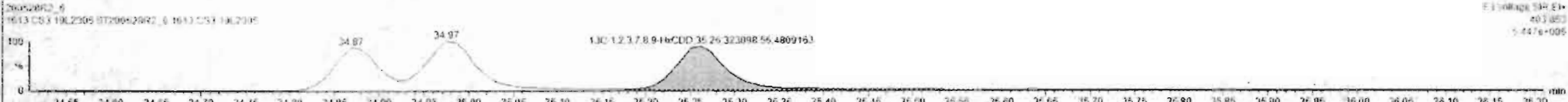
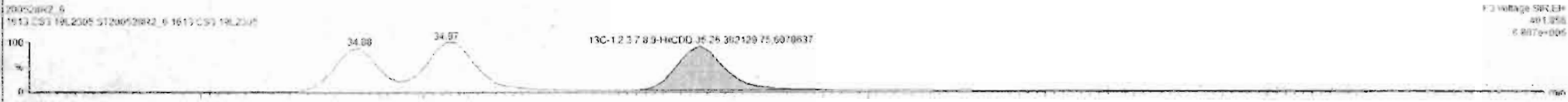
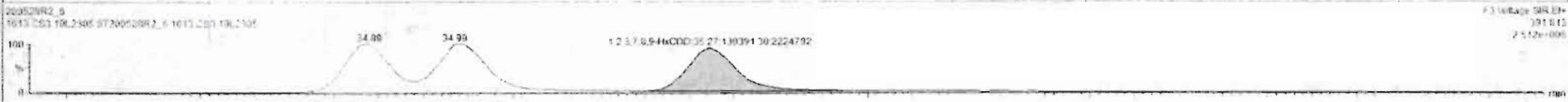
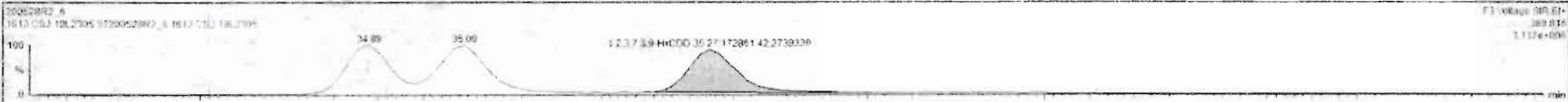
200528R2_6



200528R2_6



#	Name	Res#	RA	aly	RRT	sdvol	RT	RRT	Conc.	%Rec	DL	LHPC
1	2,3,7,8-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	0.82	NO	0.9041	1.000	31.43	1.001	51.3	103	2.19e	51.3
3	1,2,3,4,7,8-HxCDD	3.25e5	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	98.8	0.211	48.3
5	1,2,3,7,8,9-HxCDD	3.12e5	1.24	NO	0.8869	1.000	35.27	1.000	49.9	99.8	0.204	49.9
6	1,2,3,4,6,7,8-HxCDD	2.29e5	1.02	NO	0.9818	1.000	30.81	1.000	51.2	102	0.209	51.2
7	CDDX	4.53e5	0.98	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	25.68	1.001	9.90	98.8	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	0.9548	1.000	34.01	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8822	1.000	34.13	1.000	51.8	104	0.179	51.8
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	2.84e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,8,9-HpCDF	2.00e5	0.80	NO	1.0123	1.000	38.34	1.000	52.7	105	0.258	52.7
17	CDFX	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-TCDF	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-HxCDF	8.48e5	0.84	NO	0.8450	1.000	31.60	1.215	100	100	0.205	100
20	1,2,3,4,7,8-HxCDF	8.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.8	98.8	0.188	98.8
21	1,2,3,6,7,8-HxCDF	8.19e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	102



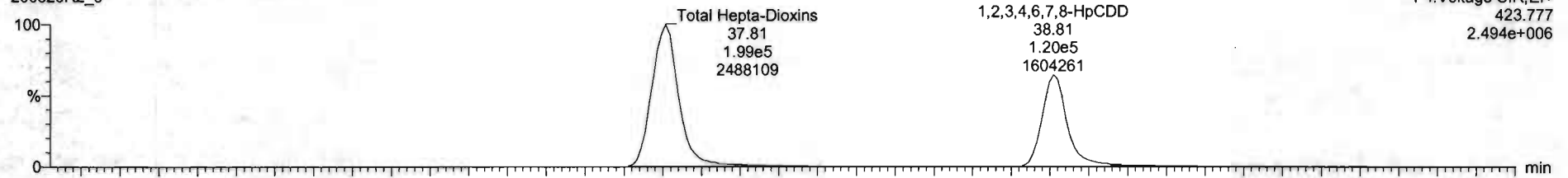
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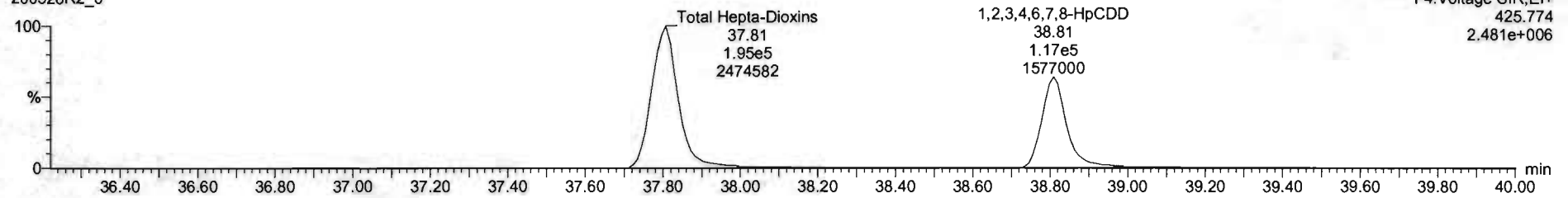
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200528R2_6

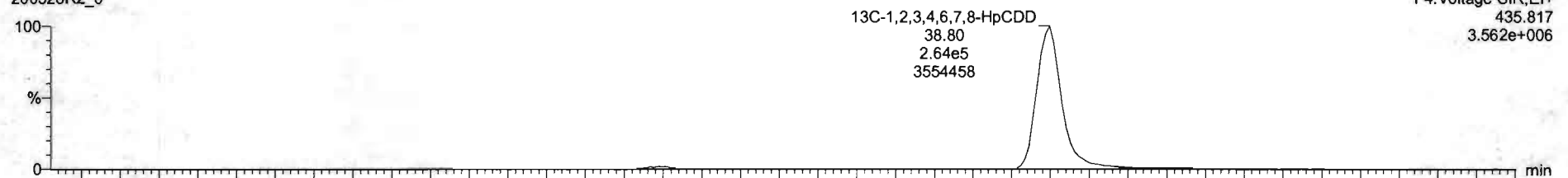


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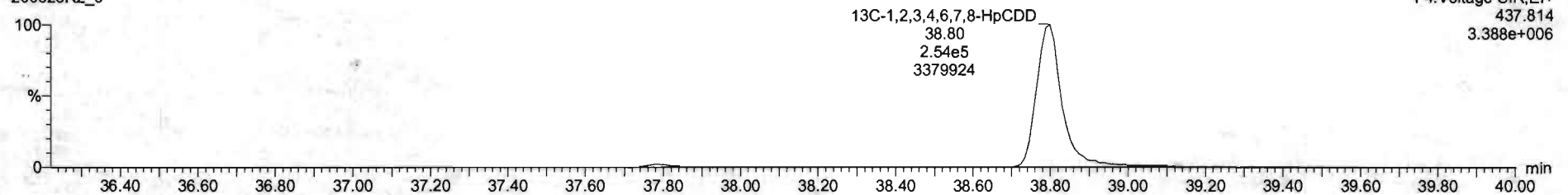


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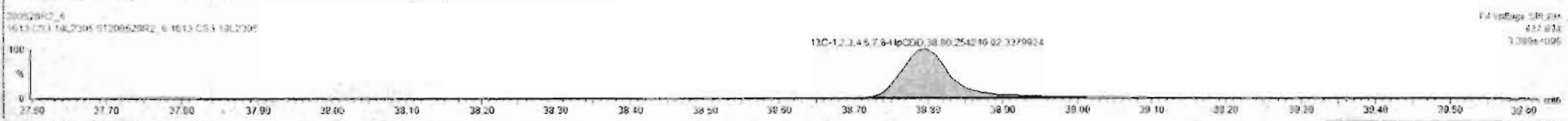
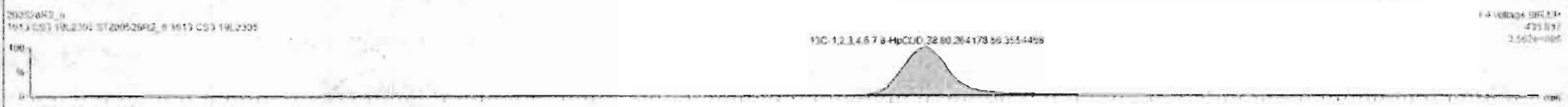
200528R2_6



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	0.901	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	0.897	1.000	35.35	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	0.899	1.000	35.81	1.000	51.3	102	0.259	51.2
7	OCDF	4.53e5	0.98	NO	0.9176	1.000	41.75	1.000	102	102	0.208	102
8	1,1,1,6-TCDF	1.19e5	0.74	NO	0.7140	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,7,8-HpCDF	5.72e5	1.57	NO	0.8925	1.000	30.25	1.000	51.0	102	0.150	51.0
10	1,2,3,7,8-PeCDF	5.81e5	1.57	NO	0.9348	1.000	31.22	1.000	50.3	101	0.150	50.3
11	1,2,3,4,7,8-HxCDF	3.58e5	1.21	NO	0.8848	1.000	34.81	1.000	51.1	102	0.151	51.1
12	1,2,3,6,7,8-HpCDF	4.22e5	1.25	NO	0.8852	1.000	34.13	1.000	51.9	104	0.170	51.9
13	1,2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.9041	1.000	34.72	1.000	51.9	104	0.157	51.8
14	1,2,3,7,8-HxCDF	3.98e5	1.22	NO	0.8701	1.000	35.83	1.000	51.1	102	0.209	51.1
15	1,2,3,4,6,7,8-HpCDF	2.84e5	0.98	NO	0.8734	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	1.0122	1.000	38.14	1.000	52.7	108	0.288	52.7
17	OCDF	4.44e5	0.85	NO	0.8081	1.000	41.87	1.000	102	102	0.161	102
18	13C-1,2,3,7,8-12CD	1.16e5	0.79	NO	1.1583	1.000	29.56	1.026	101	101	0.0980	
19	13C-1,2,3,7,8-HpCDD	3.48e5	0.84	NO	0.9450	1.000	33.58	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HpCDD	8.04e5	1.27	NO	0.7750	1.000	34.88	1.014	98.9	98.9	0.188	
21	13C-1,2,3,6,7,8-HxCDD	8.15e5	1.23	NO	1.0487	1.000	34.97	1.017	102	102	0.144	



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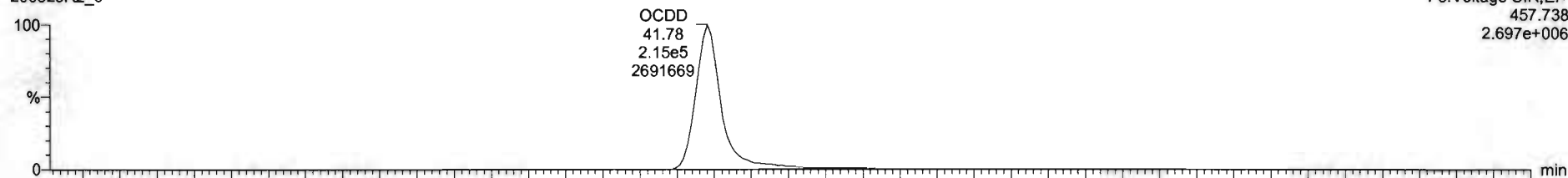
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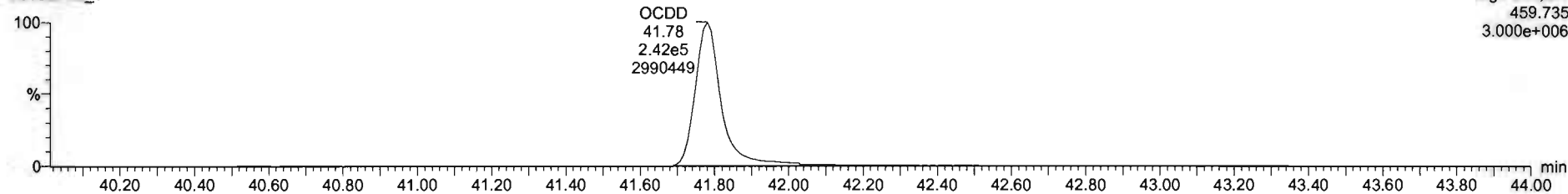
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OCDD

200528R2_6

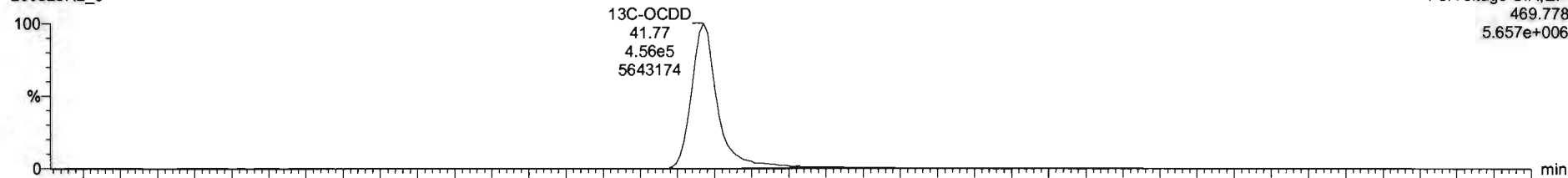


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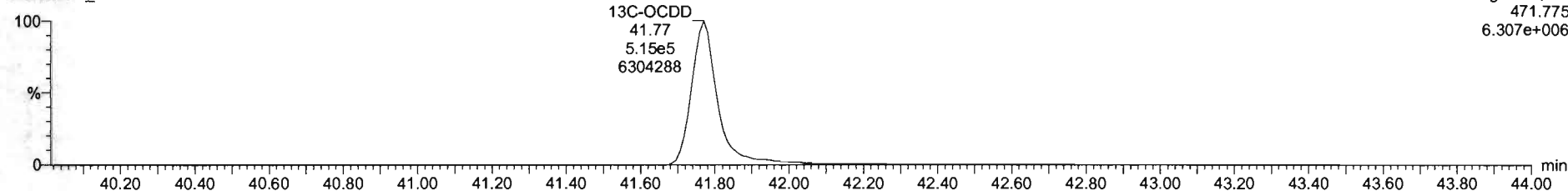


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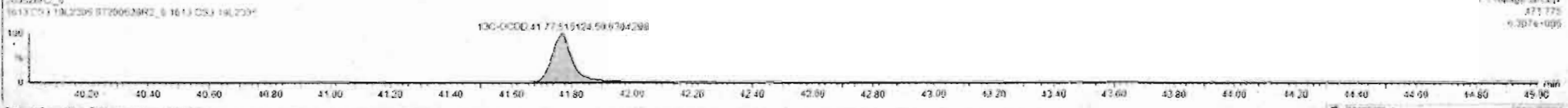
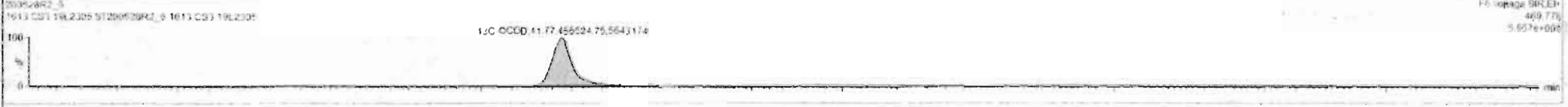
200528R2_6



200528R2_6



ID	Name	Resp	RA	Qty	RHF	Wt/Vol	RT	RRT	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	0.8544	1.000	34.91	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	



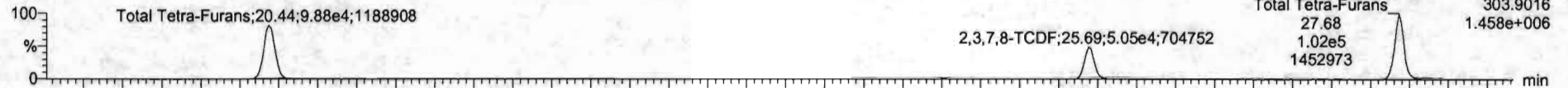
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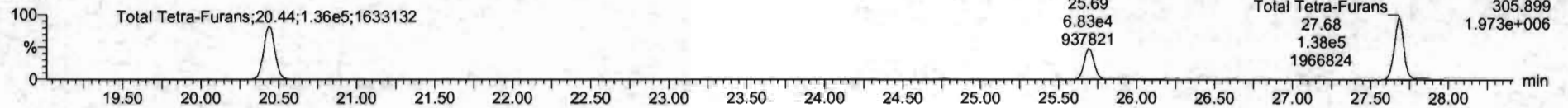
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2,3,7,8-TCDF

200528R2_6

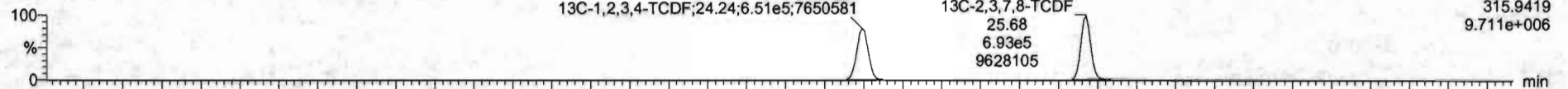


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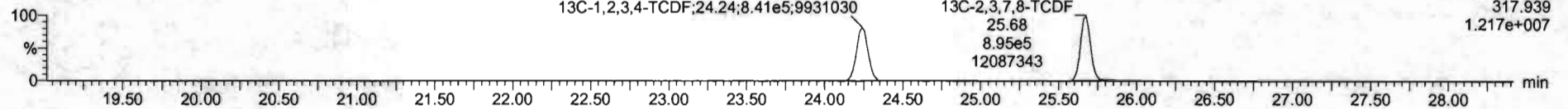


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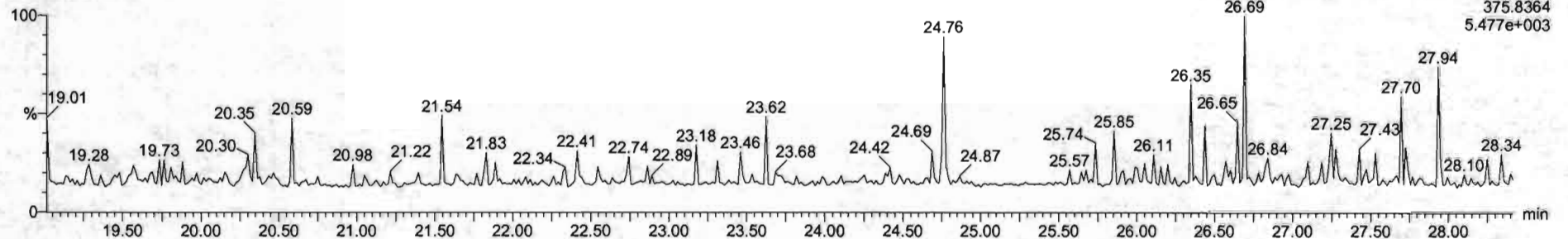


200528R2_6



DPE1

200528R2_6



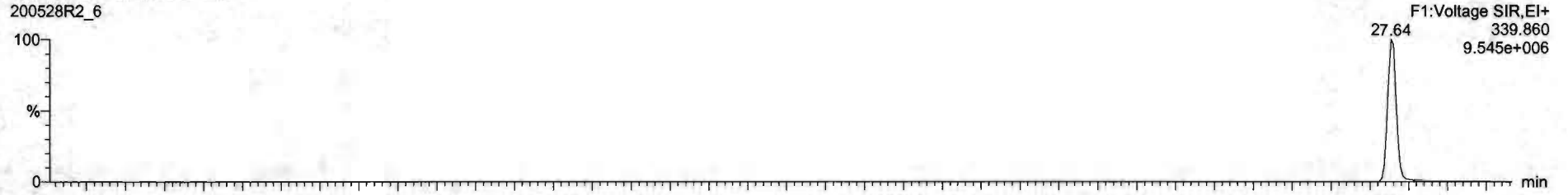
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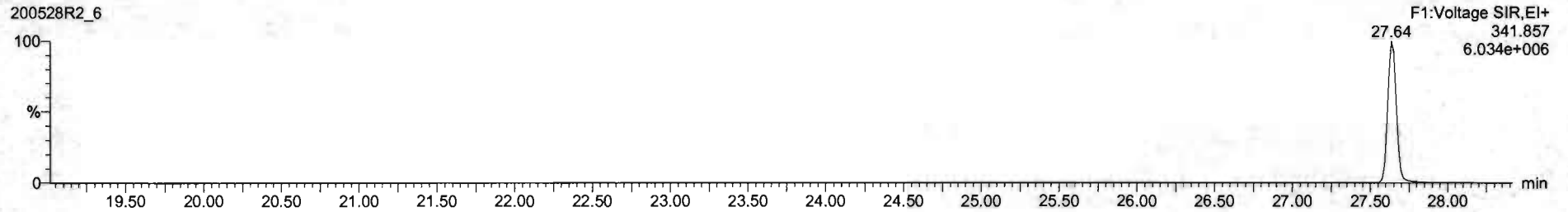
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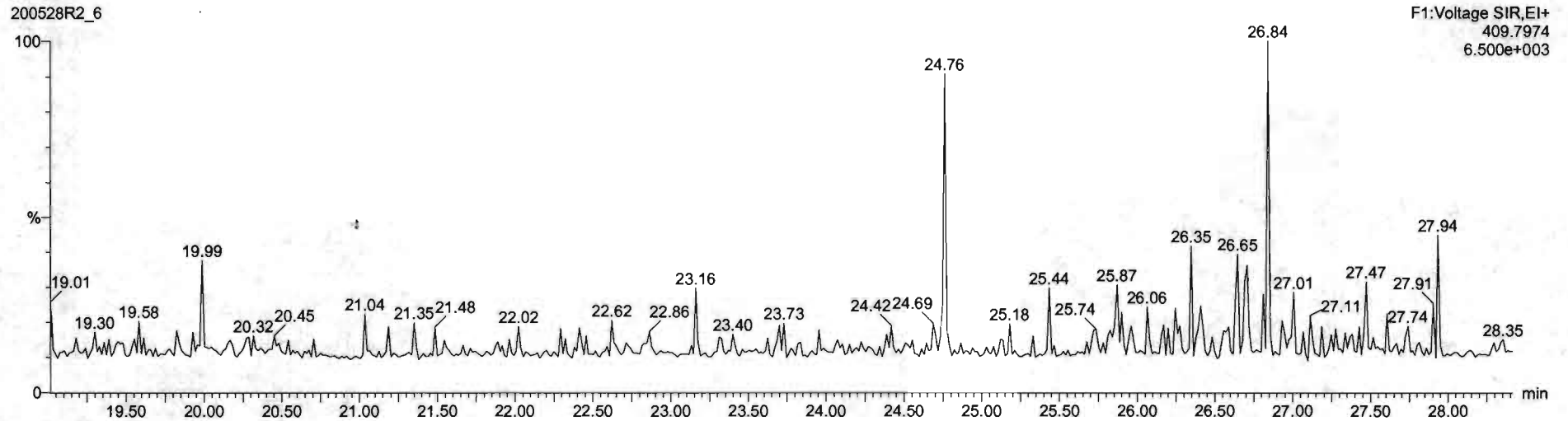


200528R2_6



DPE6

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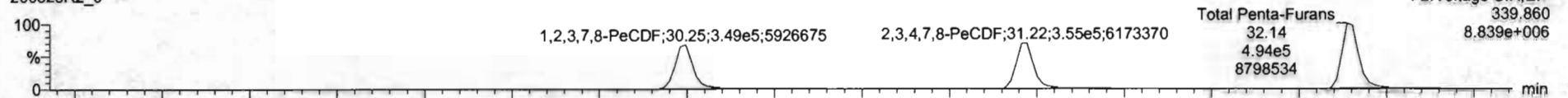
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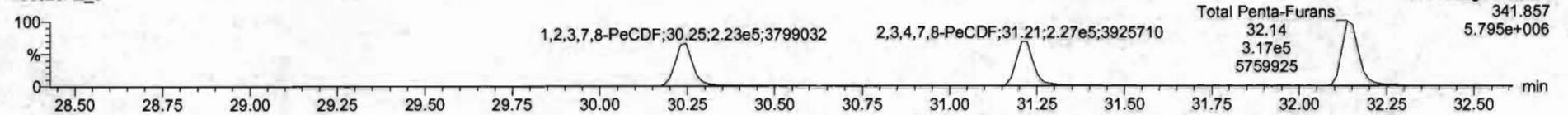
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1,2,3,7,8-PeCDF

200528R2_6

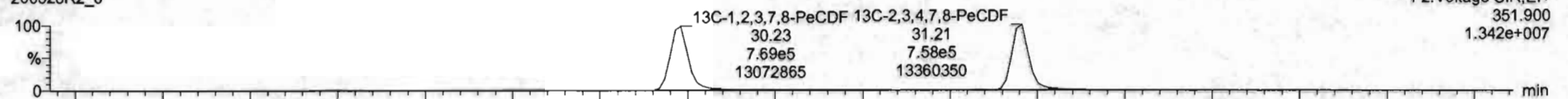


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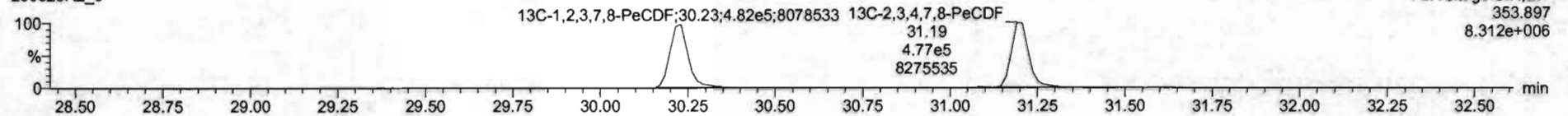


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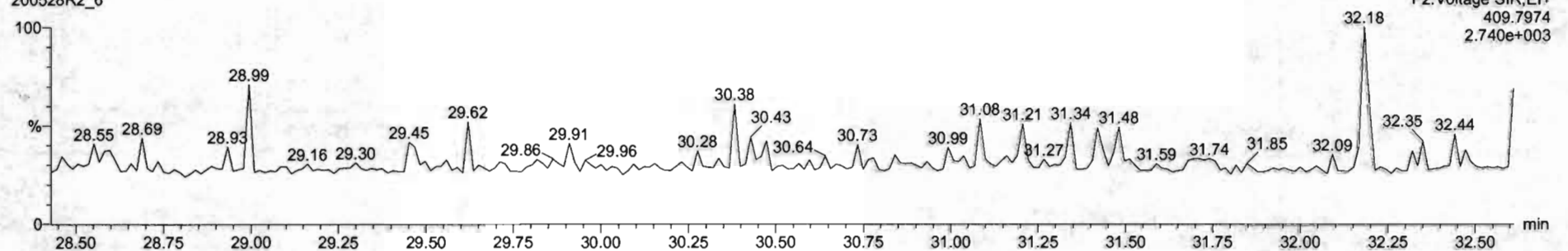


200528R2_6



DPE2

200528R2_6

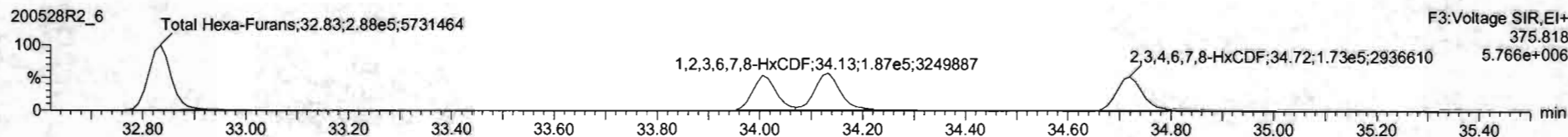
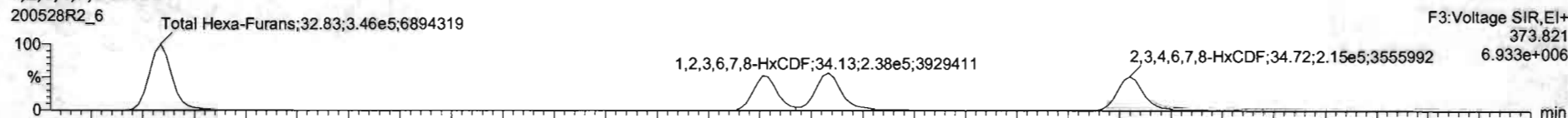


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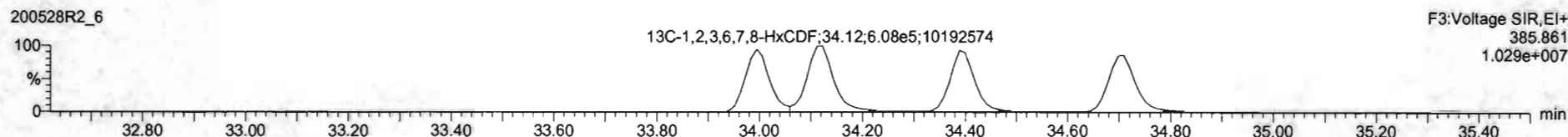
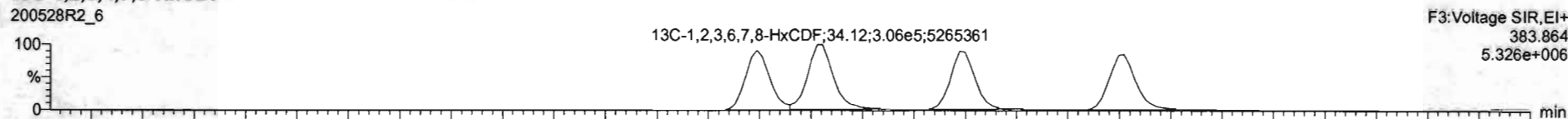
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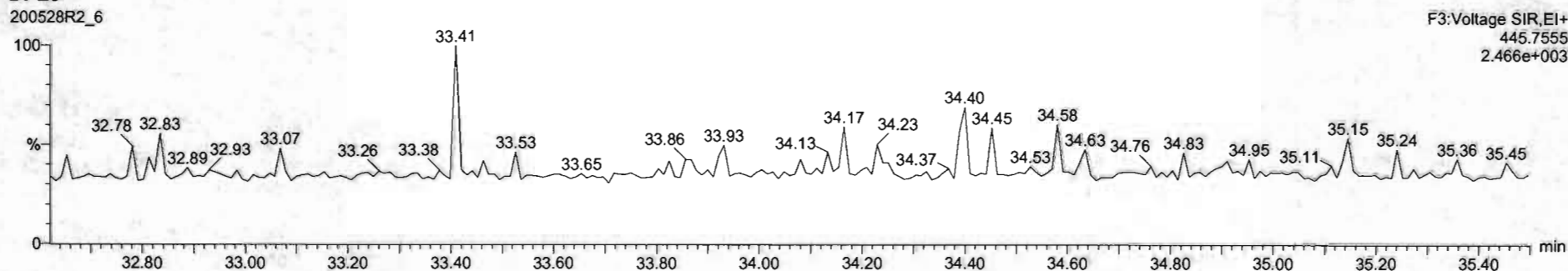
1,2,3,4,7,8-HxCDF



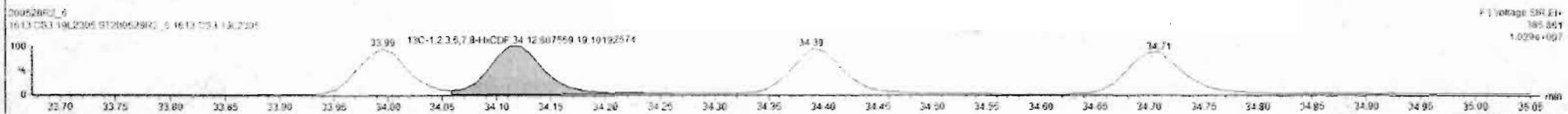
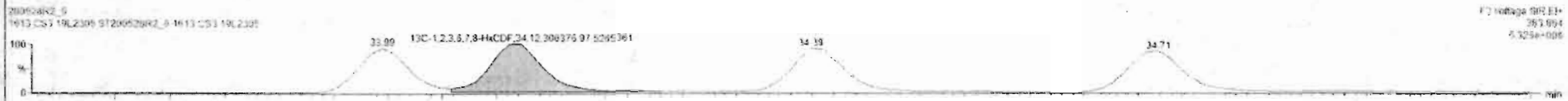
13C-1,2,3,4,7,8-HxCDF



DPE3



Name	Resp	RA	WV	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.36e5	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	0.8838	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-HxCDF	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	2.98e5	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	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
18 1,2,3,4,7,8,9-HpCDF	0.39e5	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	34.88	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	



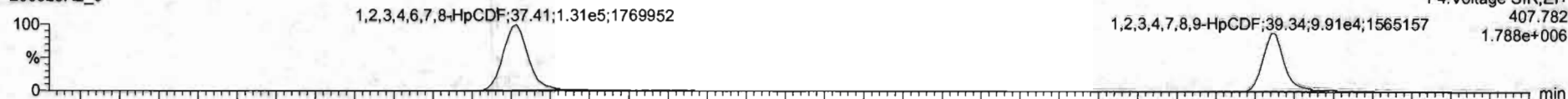
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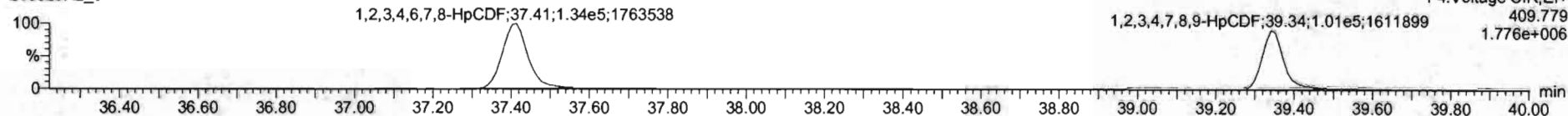
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1,2,3,4,6,7,8-HpCDF

200528R2_6

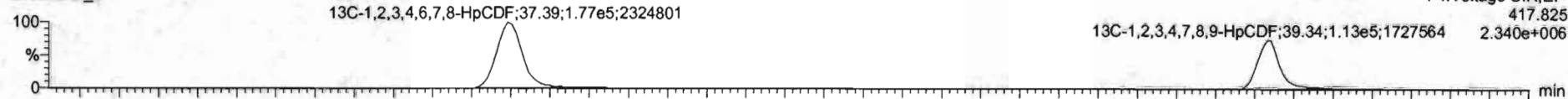


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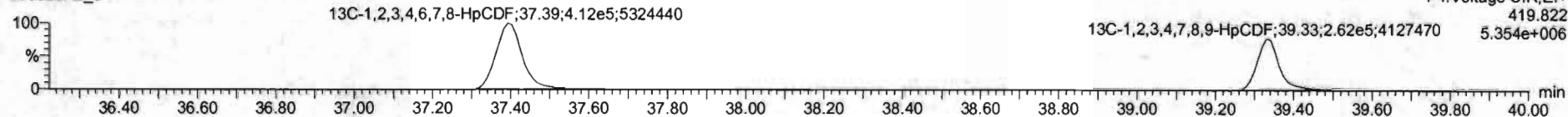


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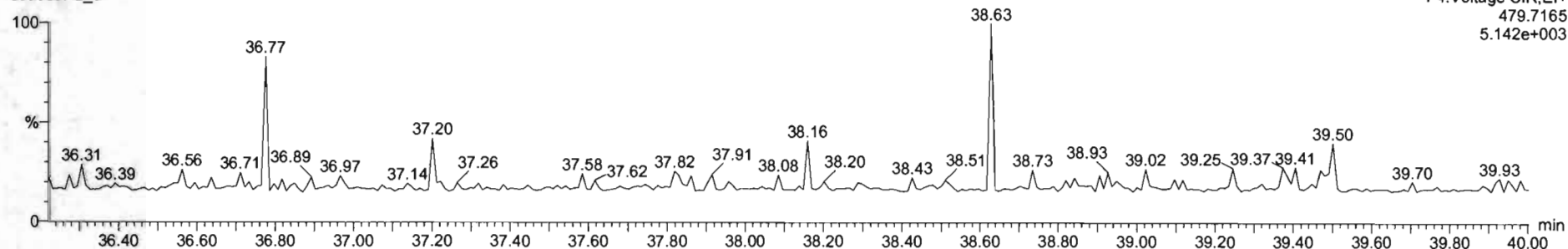


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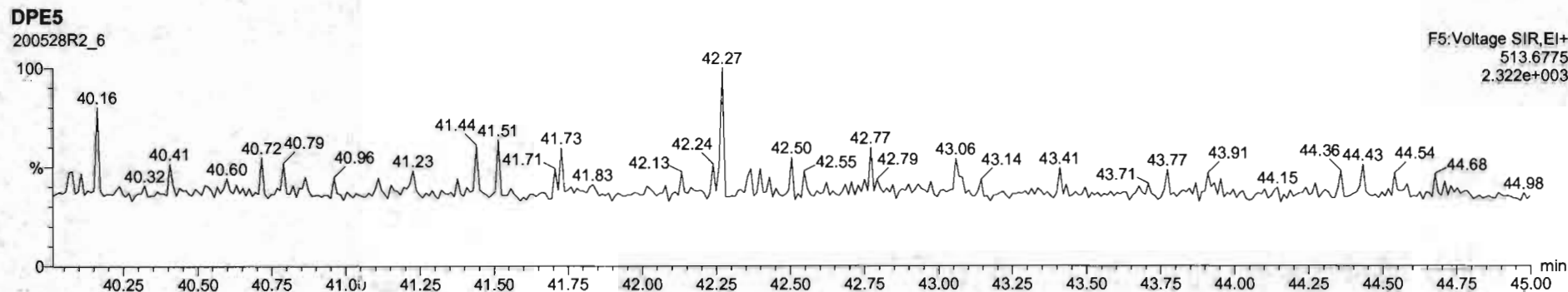
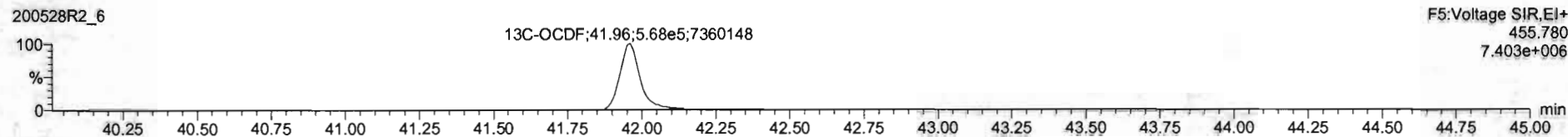
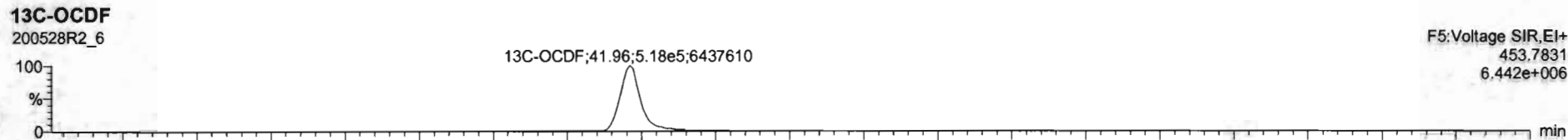
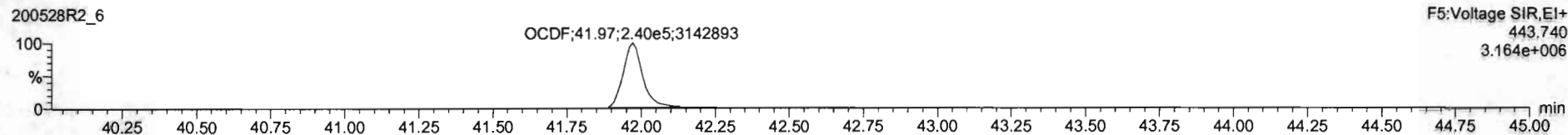
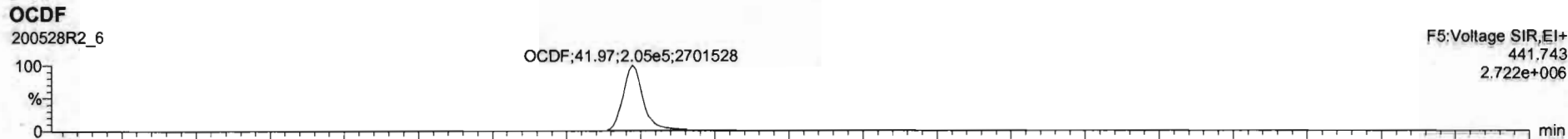
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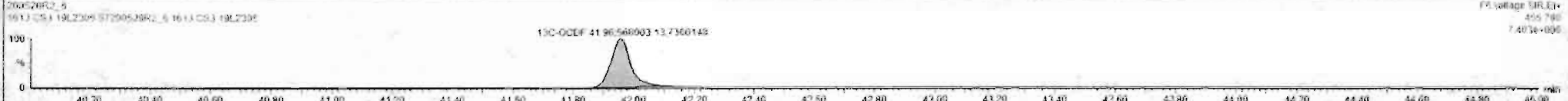
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Name: 200528R2_6, Date: 28-May-2020, Time: 15:58:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



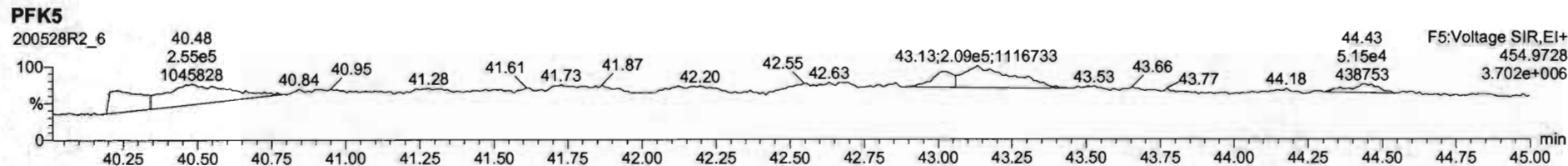
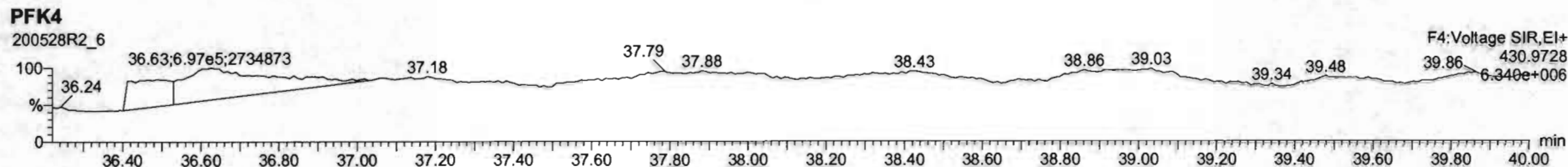
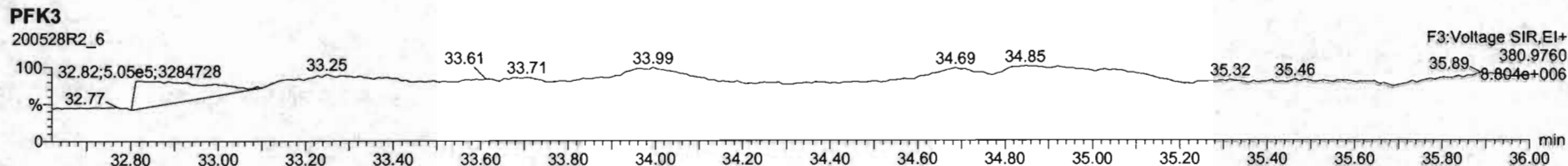
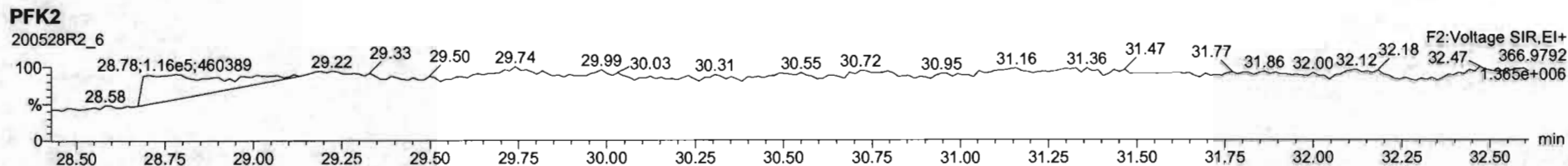
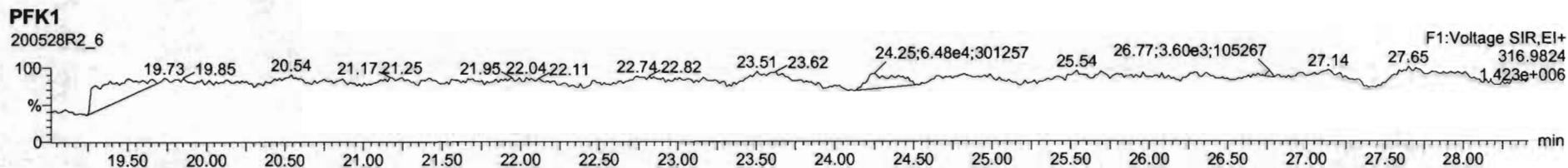
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2	1,2,3,7,8-PeCDD	3.56e5	0.62	NO	0.8091	1.000	31.53	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.89	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDD	0.51e5	1.34	NO	0.8921	1.000	35.00	1.001	48.3	96.6	0.231	48.3
5	1,2,3,7,8,9-HxCDD	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	0.409	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	0.8545	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	1.1523	1.000	26.19	1.024	101	101	0.0680	
19	13C-1,2,3,7,8-PeCDD	6.48e5	0.64	NO	0.8450	1.000	31.53	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	0.64e5	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	



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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

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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	

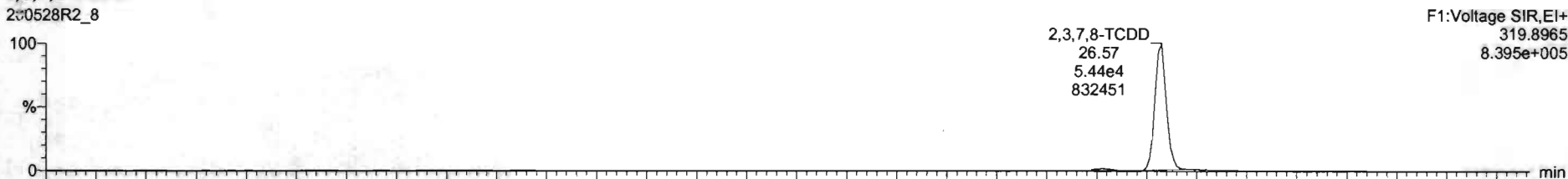
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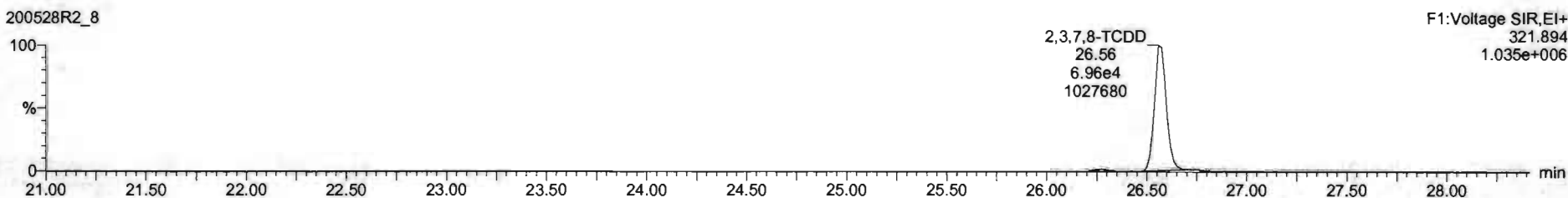
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

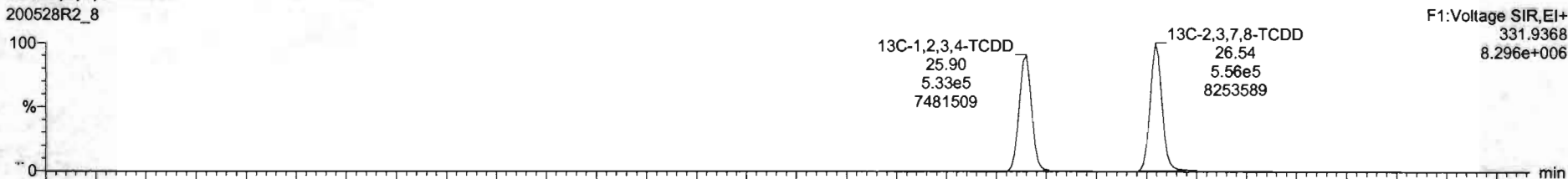
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200528R2_8



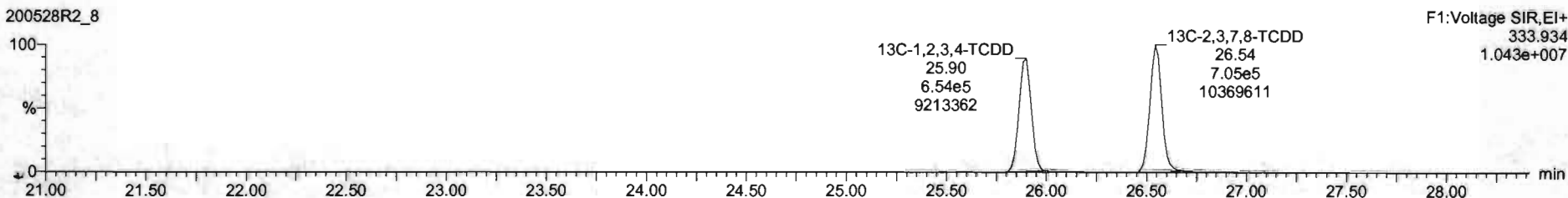
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13C-2,3,7,8-TCDD
200528R2_8



200528R2_8



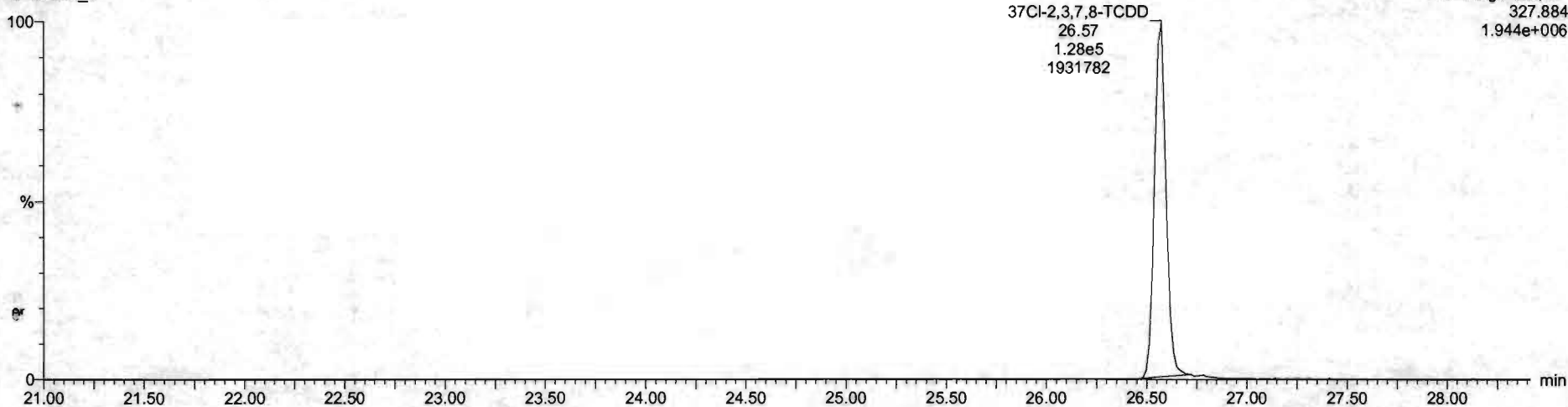
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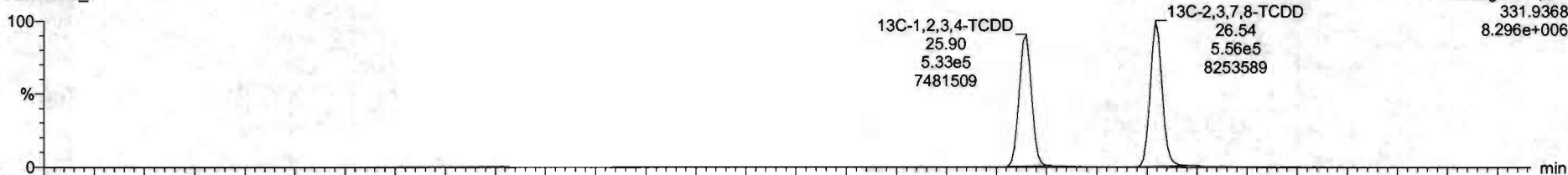
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200528R2_8

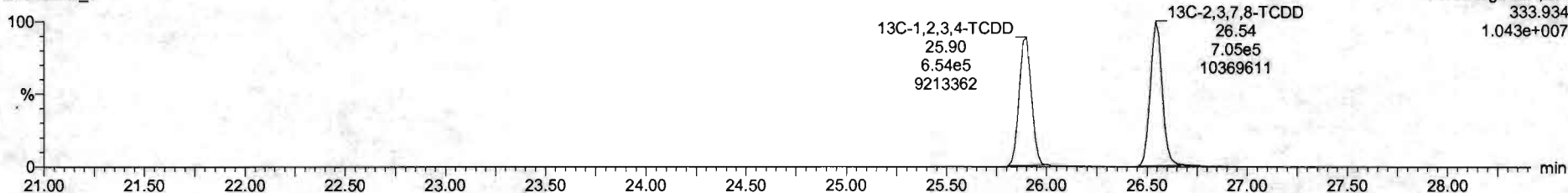


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200528R2_8



200528R2_8



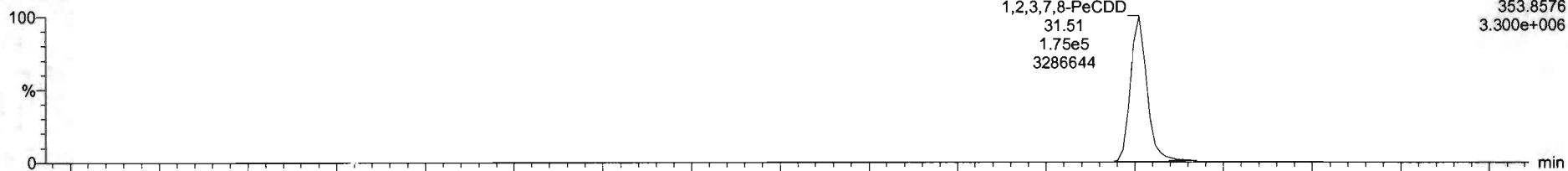
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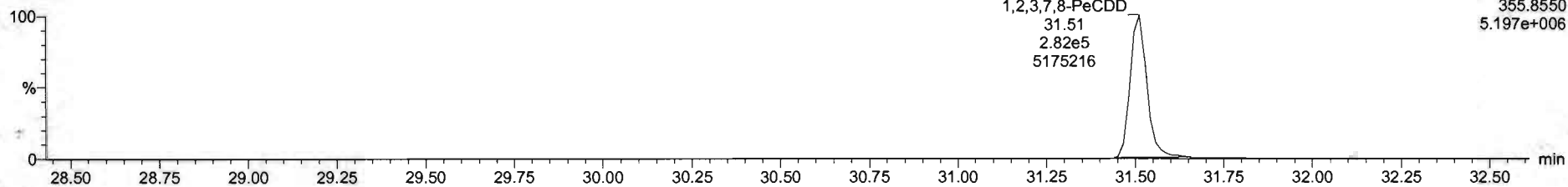
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1,2,3,7,8-PeCDD

200528R2_8

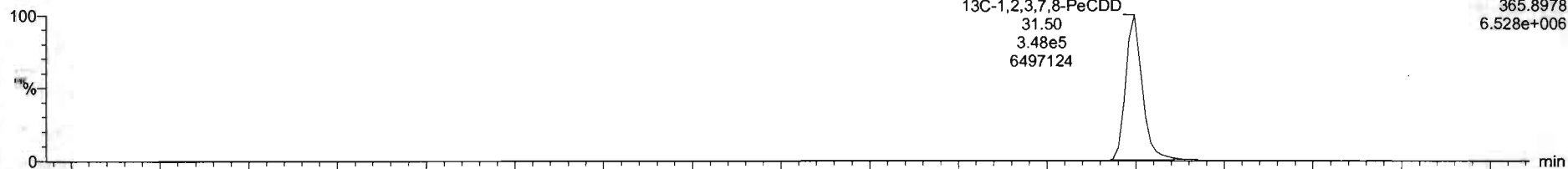


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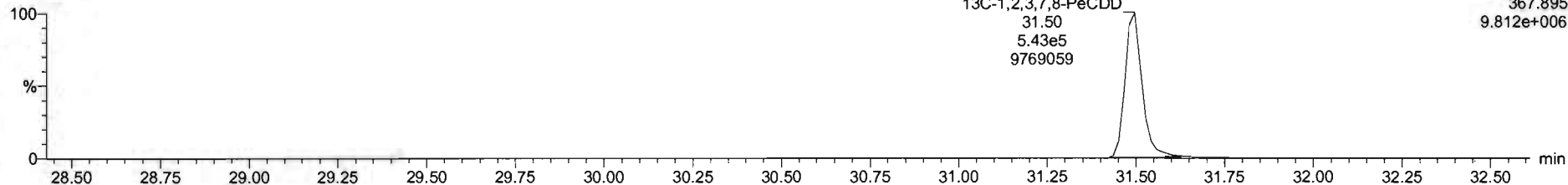


13C-1,2,3,7,8-PeCDD

200528R2_8



200528R2_8



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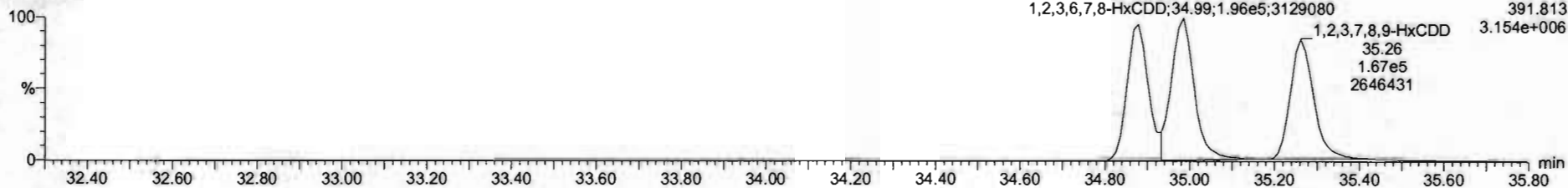
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1,2,3,4,7,8-HxCDD

200528R2_8

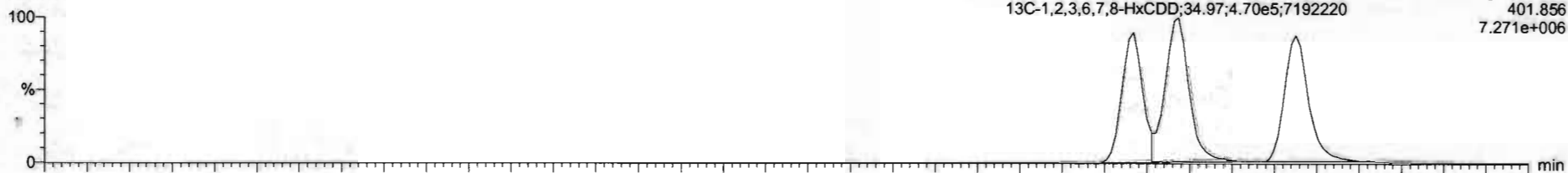


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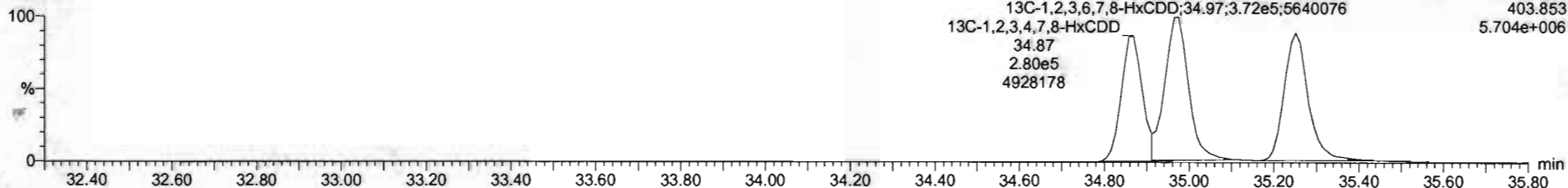


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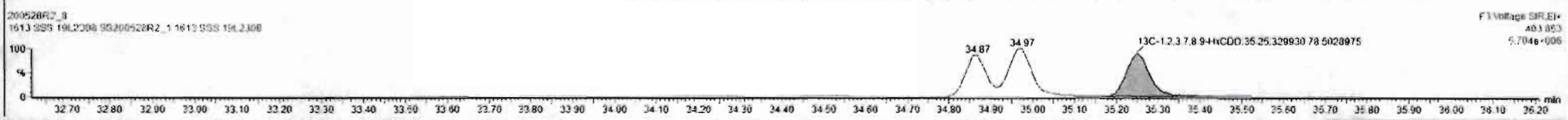
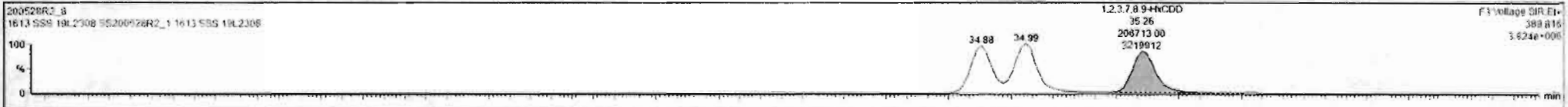
200528R2_8



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	1.000	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	3.52e5	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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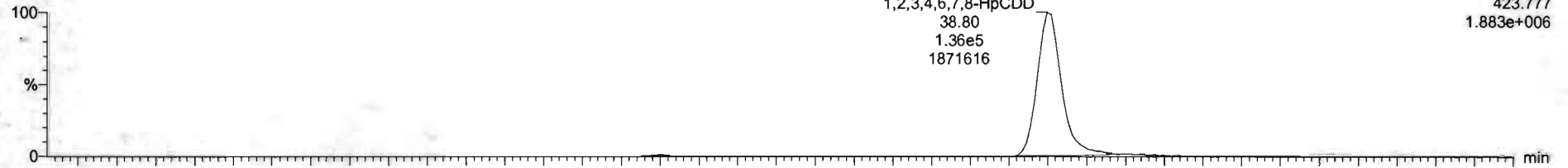
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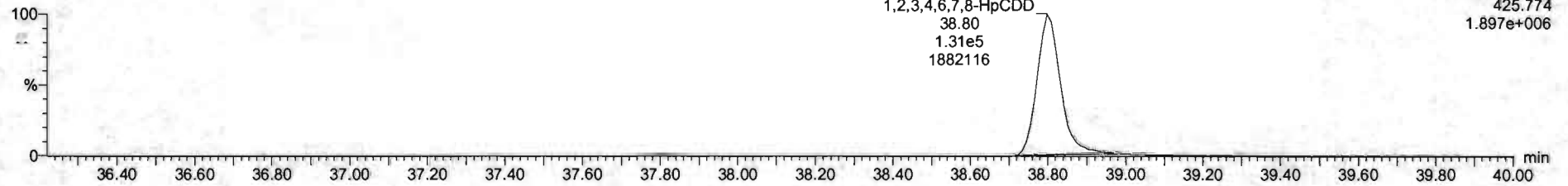
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1,2,3,4,6,7,8-HpCDD

200528R2_8

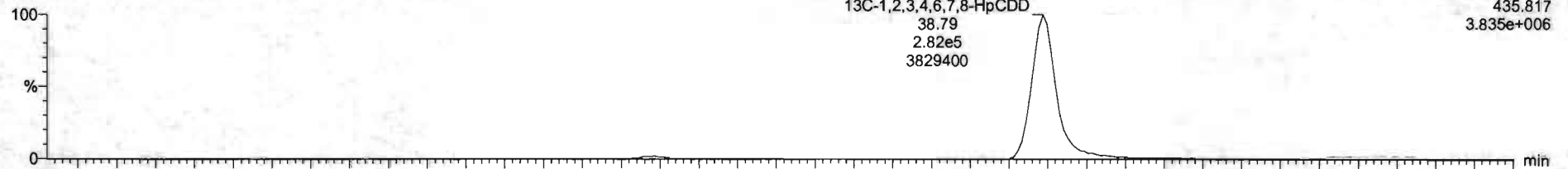


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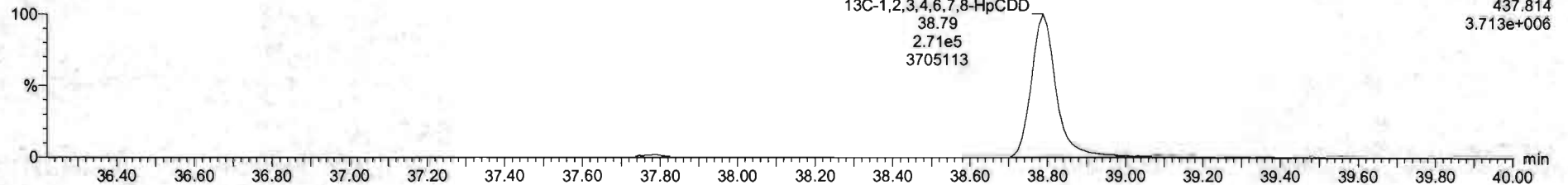


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200528R2_8



200528R2_8



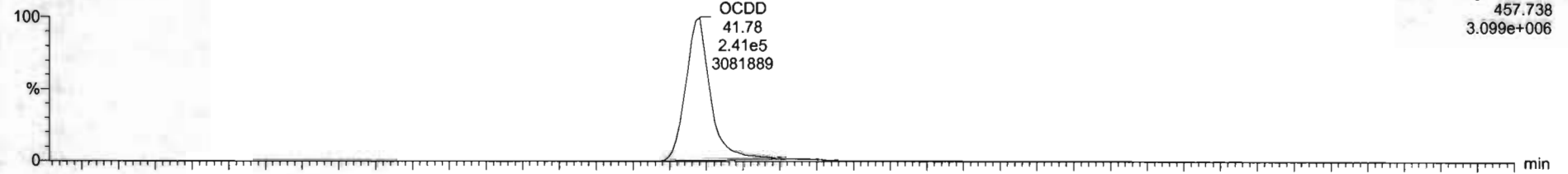
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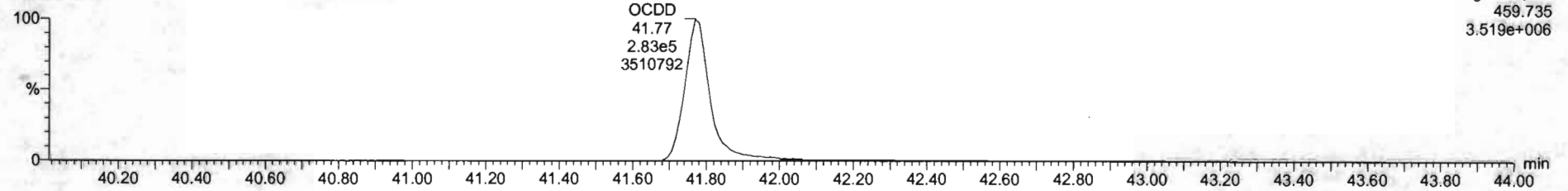
OCDD

200528R2_8



F5: Voltage SIR, EI+
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3.099e+006

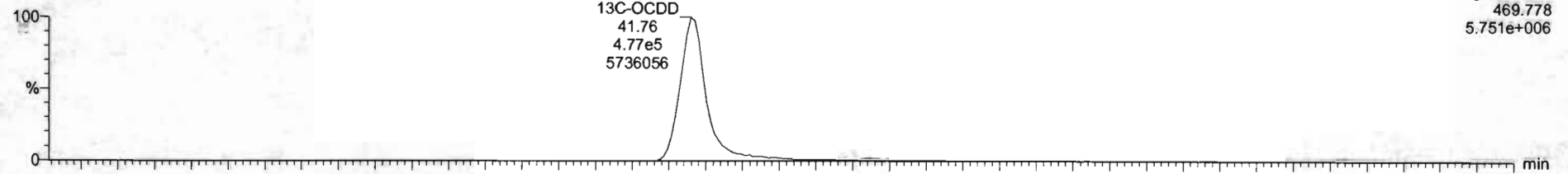
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F5: Voltage SIR, EI+
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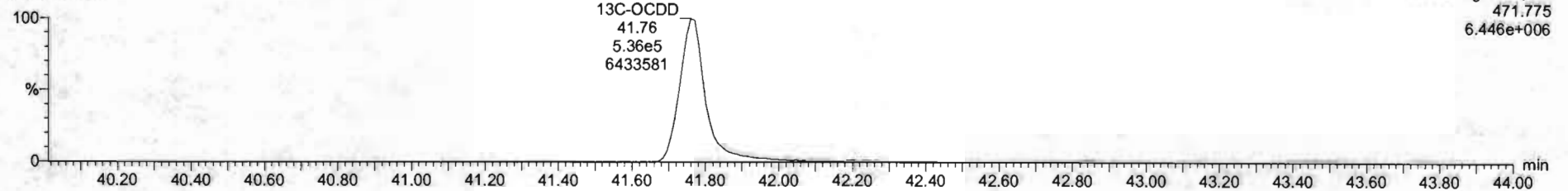
13C-OCDD

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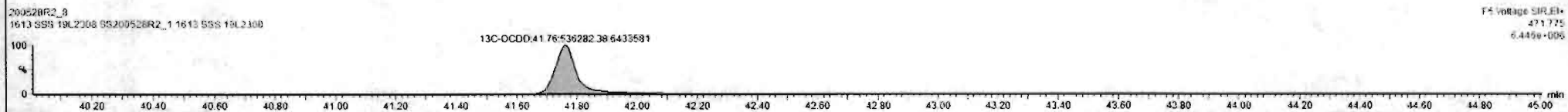
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200528R2_8



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	56.6
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	55.6
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	115	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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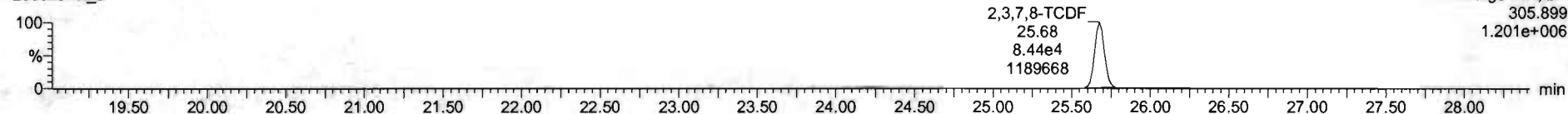
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2,3,7,8-TCDF

200528R2_8

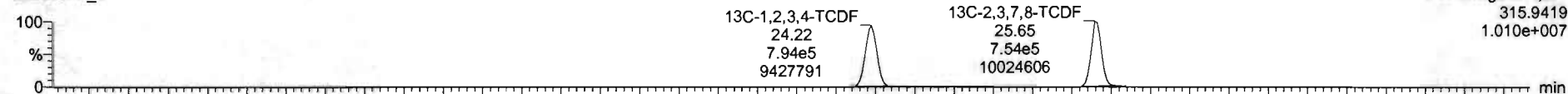


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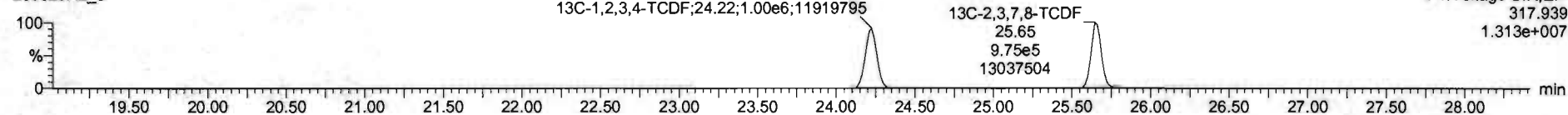


13C-2,3,7,8-TCDF

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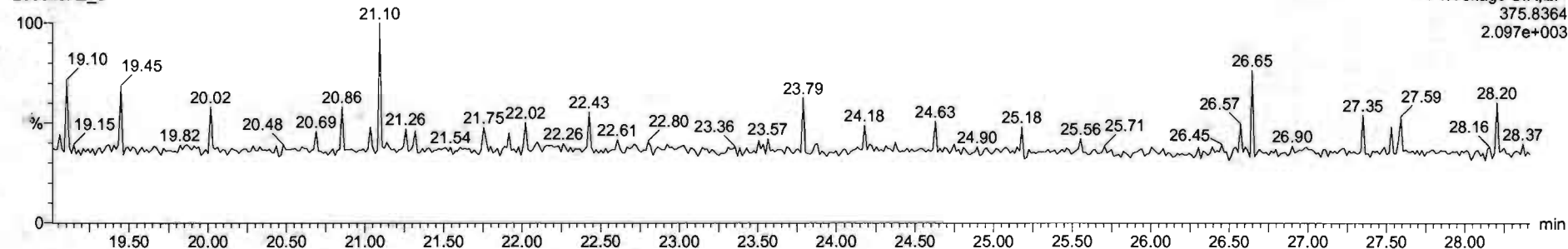


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DPE1

200528R2_8



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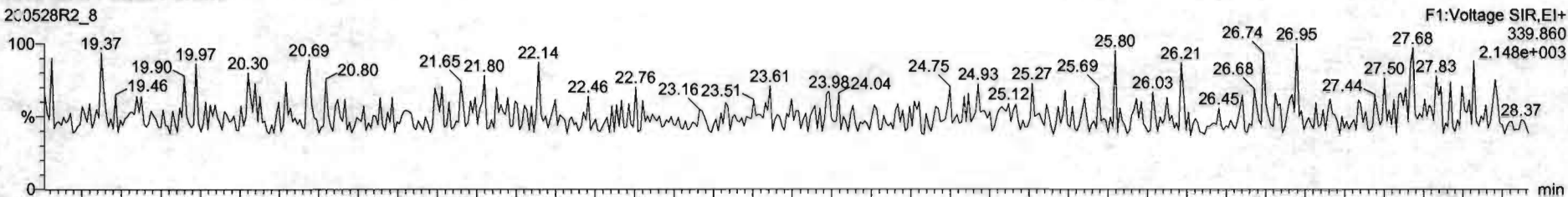
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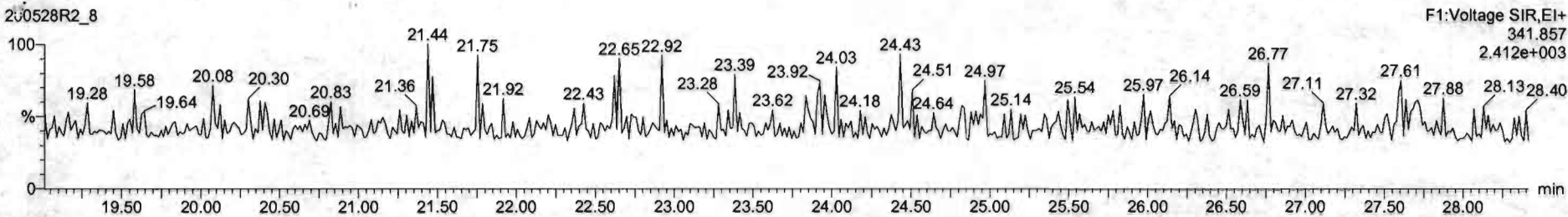
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200528R2_8

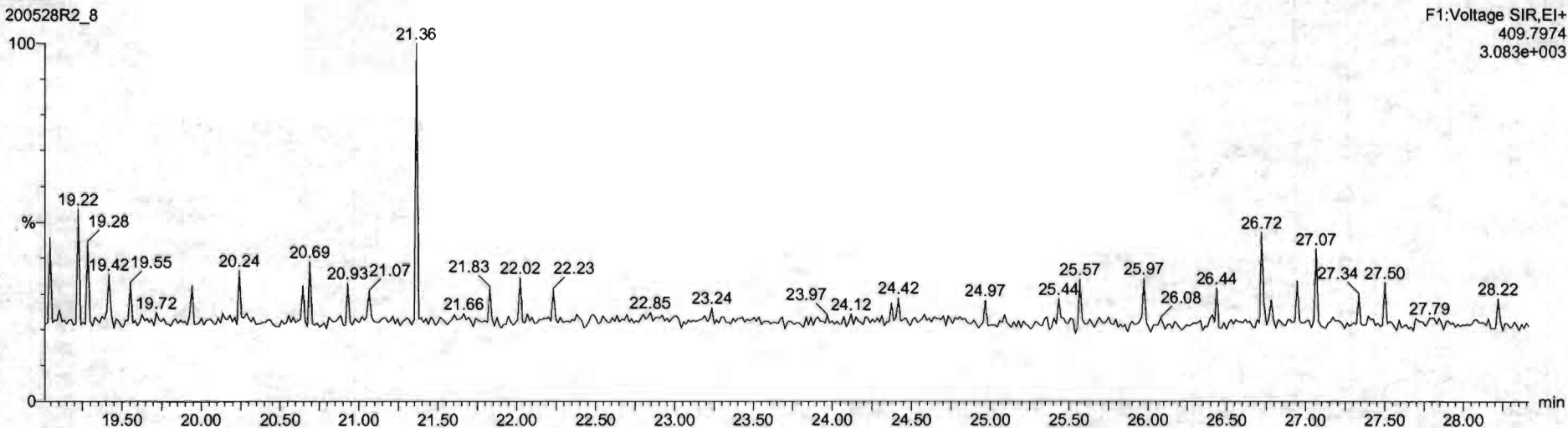


200528R2_8



DPE6

200528R2_8



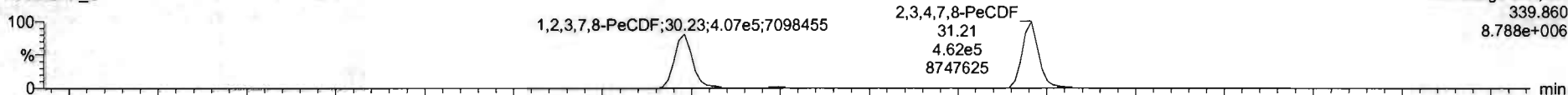
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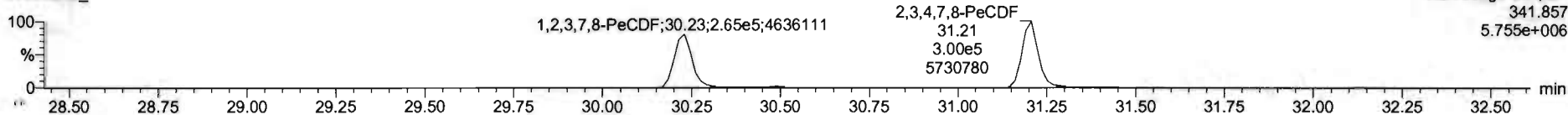
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1,2,3,7,8-PeCDF

200528R2_8

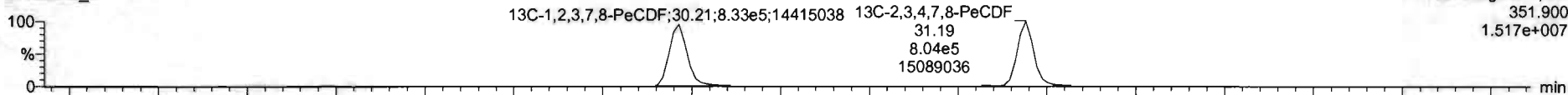


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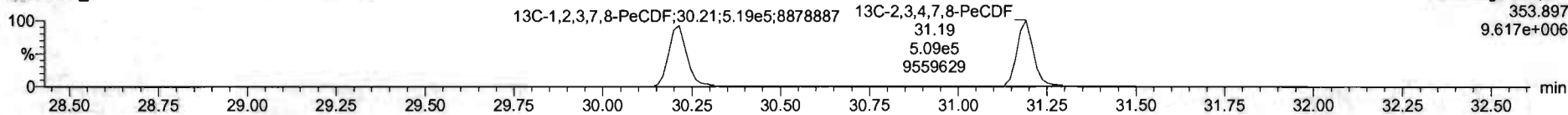


13C-1,2,3,7,8-PeCDF

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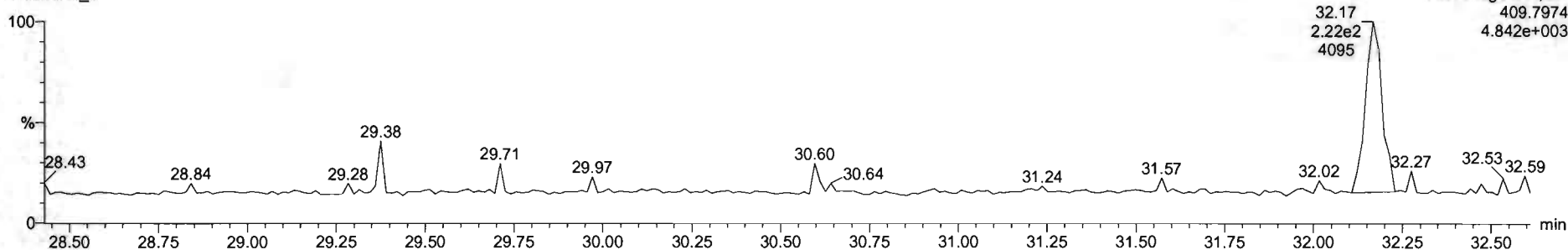


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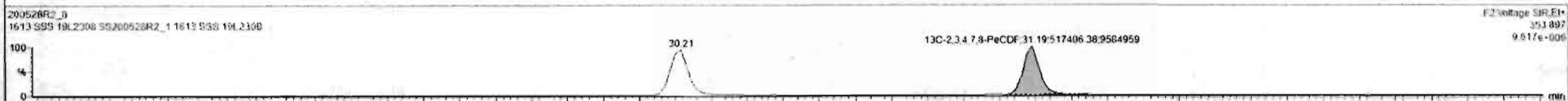
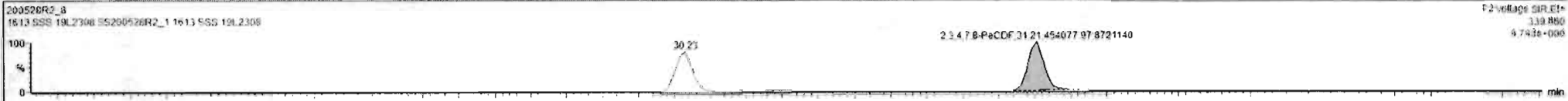


DPE2

200528R2_8



Name	Resp	RA	nly	RRF	wtval	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	2.86e5	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	1.02	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	0.0947	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	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	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	



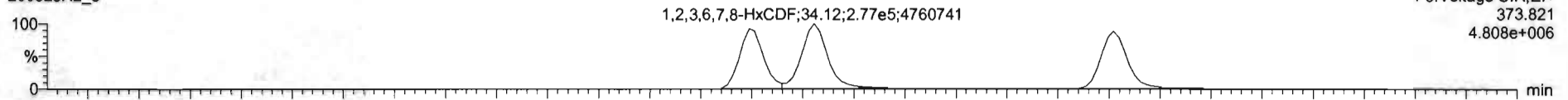
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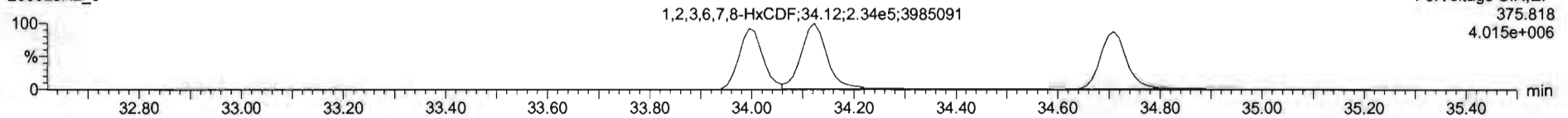
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1,2,3,4,7,8-HxCDF

200528R2_8

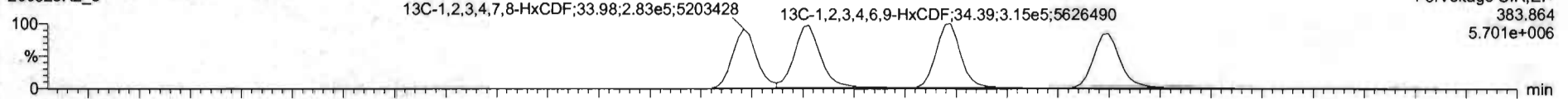


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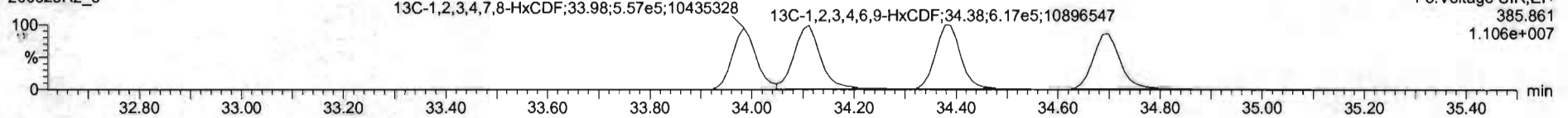


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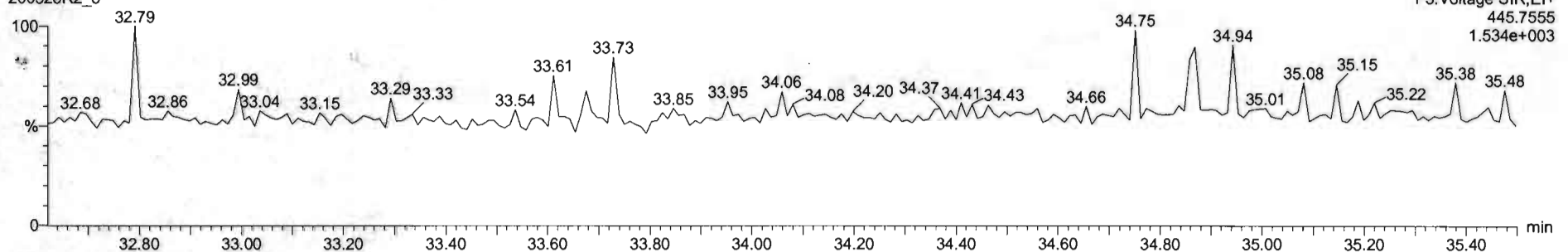


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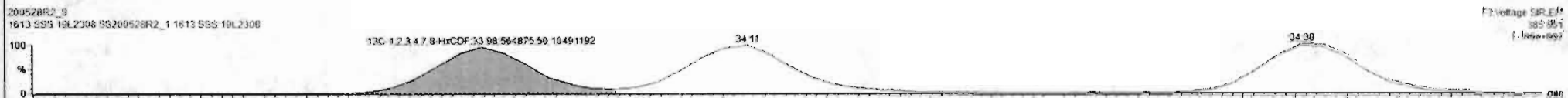
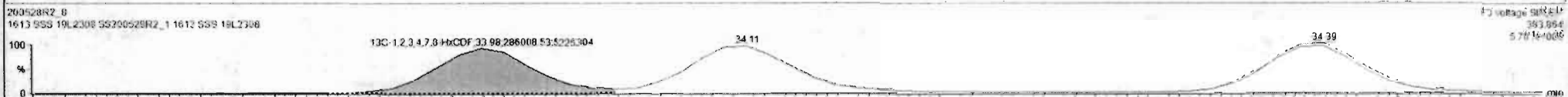
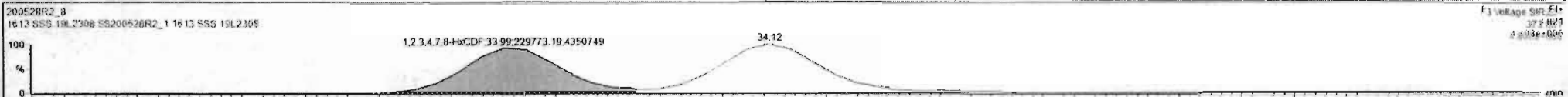


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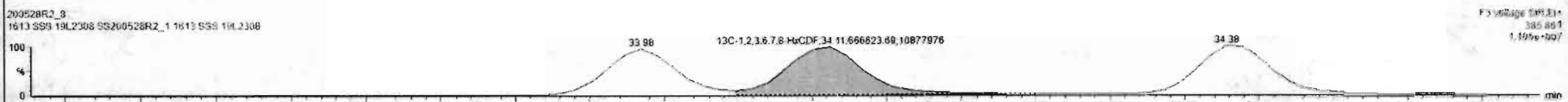
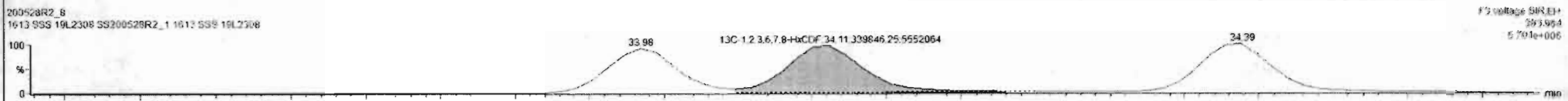
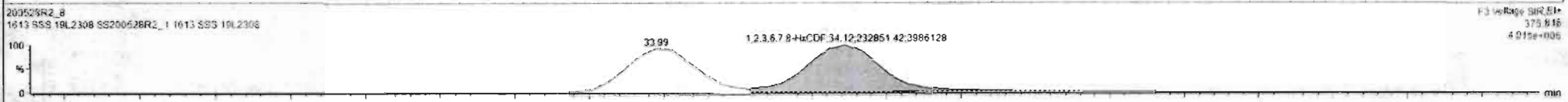
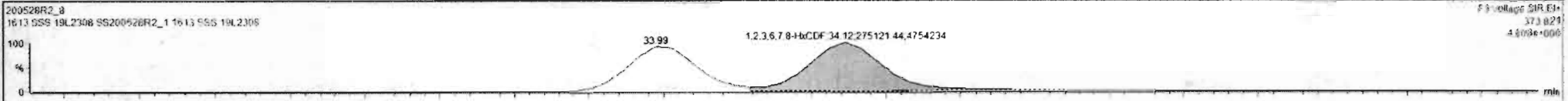
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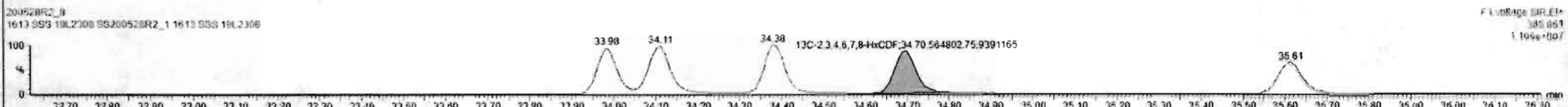
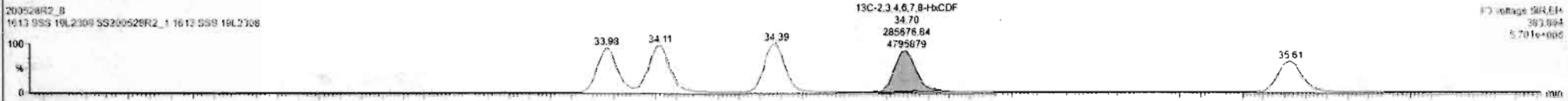
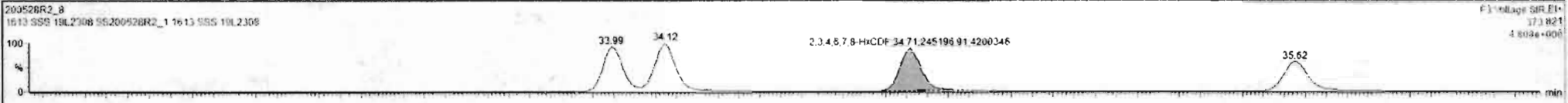
Name	Resp	RA	nly	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.8981	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	24.86	1.000	56.0	116	0.1011	56.0
4 1,2,3,6,7,8-HxCDD	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	0.100	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	1.0120	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	1.1563	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	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	0.138	



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-HxCDF	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	0.6892	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 1,2,3,4,7,8,5-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	



SI	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	56.4	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	56.0
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	1.03	NO	0.9039	1.000	36.80	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	0.9146	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	0.8545	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	0.8262	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	0.8707	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	0.196	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	0.8065	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	0.64	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	



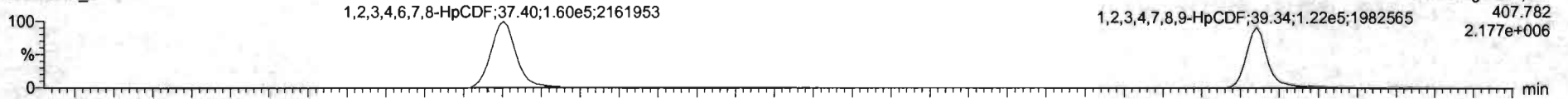
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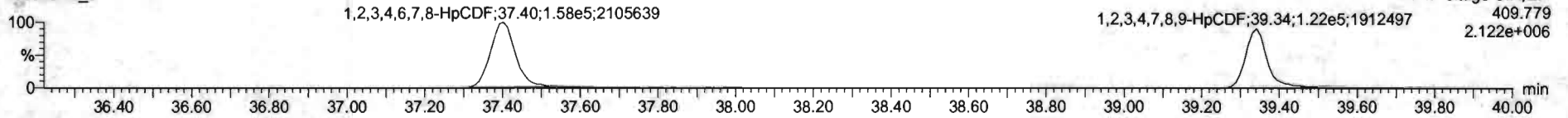
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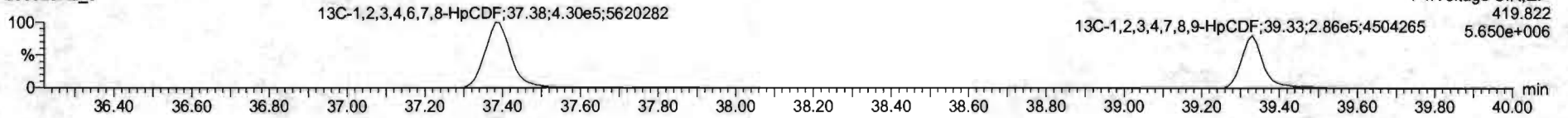


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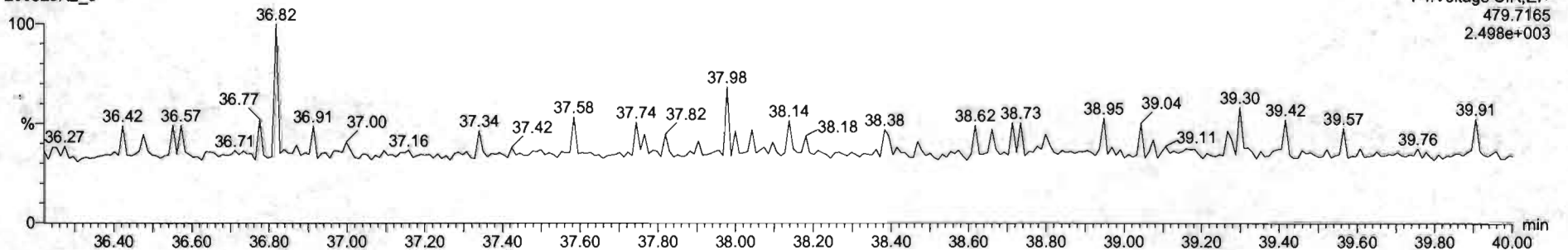


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DPE4

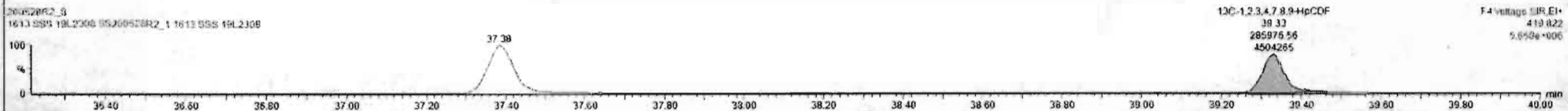
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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2.3.7.8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	5.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	58.4
3 1,2,3,4,7,8-HxCDD	3.56e5	1.22	NO	1.0334	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	41.75	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	0.0533	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	0.8852	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	



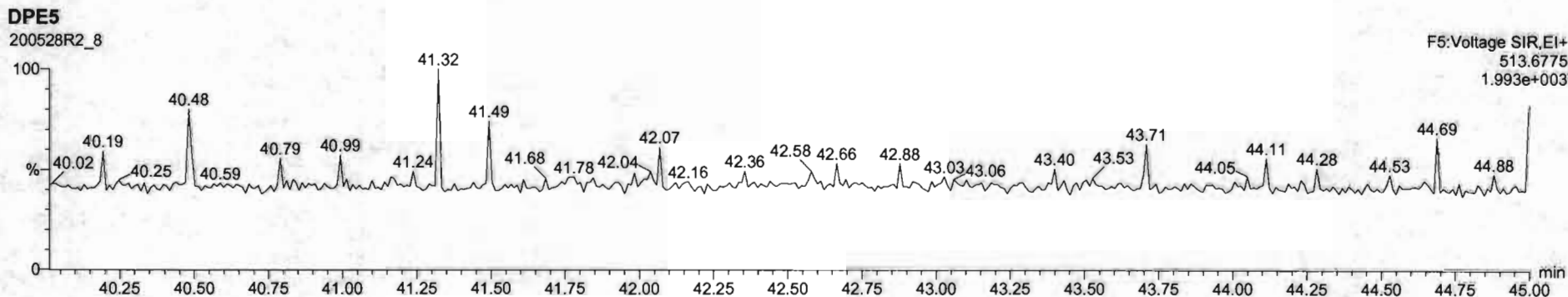
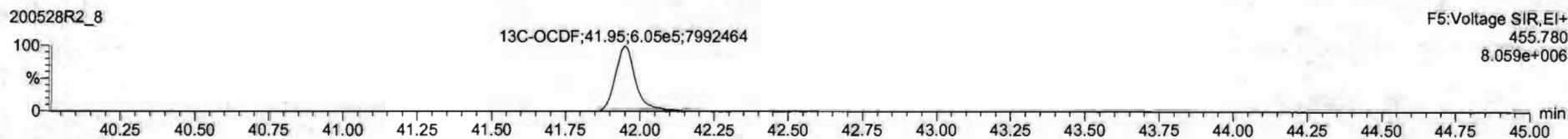
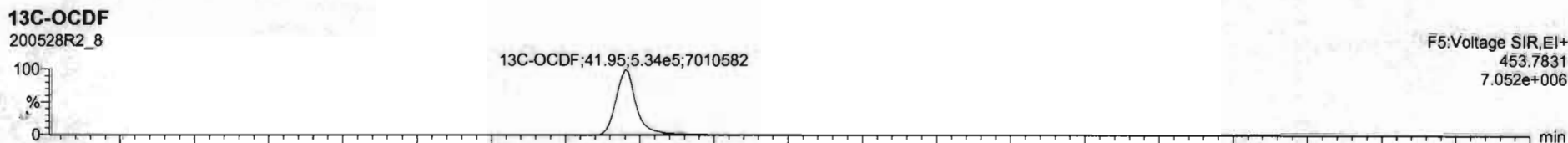
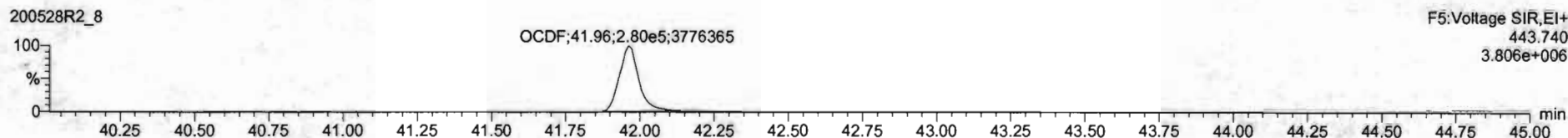
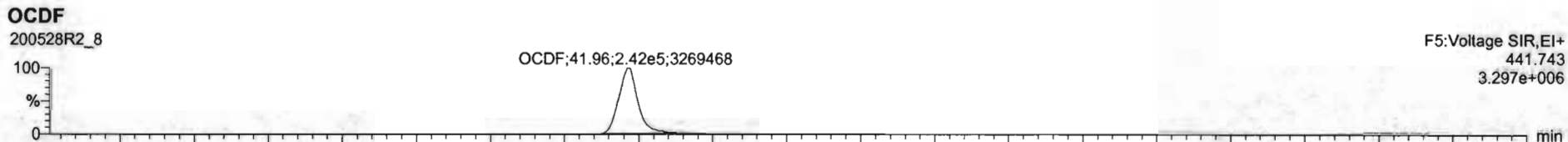
#	Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.82	NO	0.9081	1.000	31.01	1.000	58.4	113	0.0622	58.4
3	1,2,3,4,7,8-HxCDD	2.56e5	1.22	NO	1.0334	1.000	24.86	1.000	58.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8925	1.000	24.99	1.000	58.0	116	0.105	58.0
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	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	0.0303	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	58.8
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	58.5
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

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

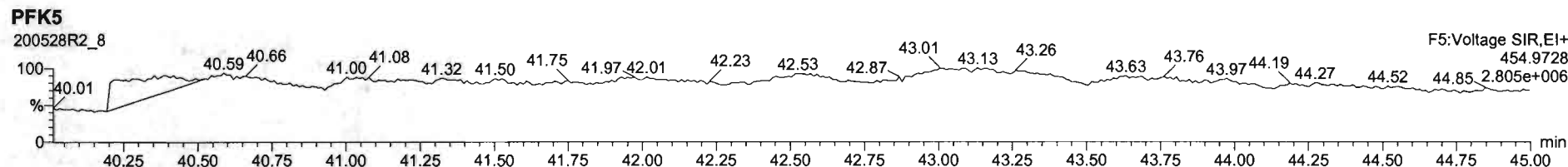
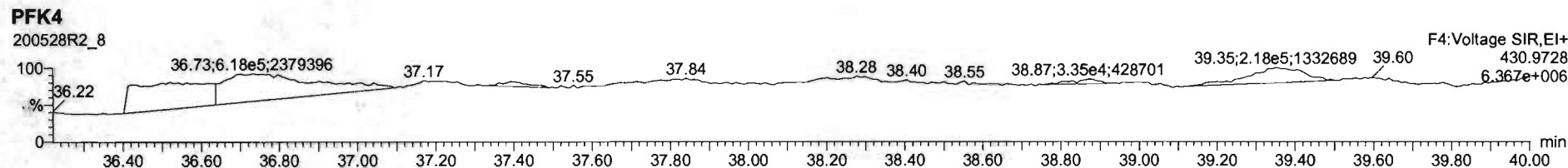
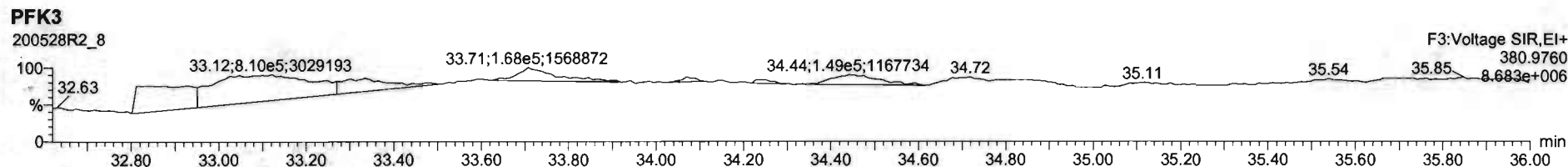
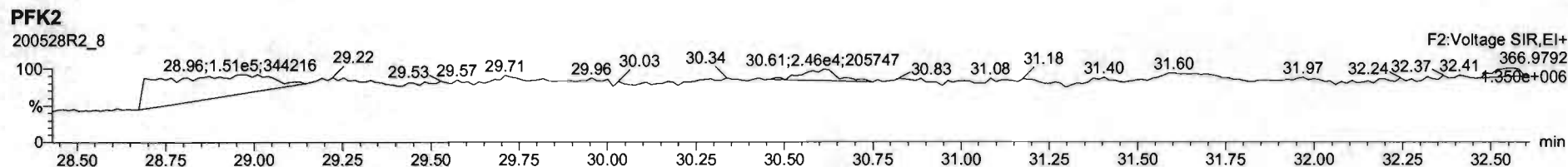
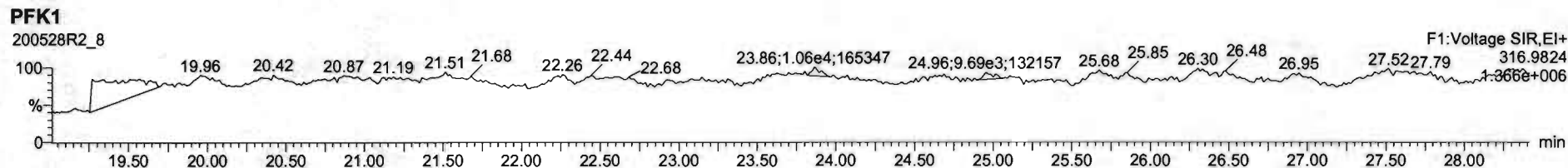
Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Dataset: Untitled

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

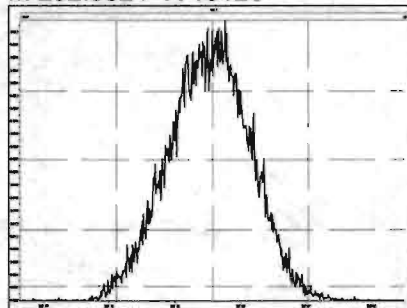
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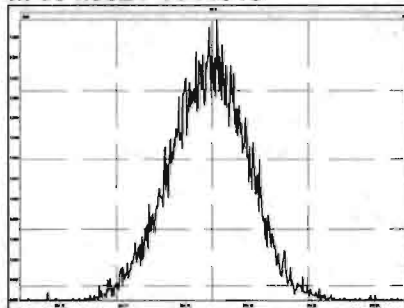
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:19:01 Pacific Daylight Time

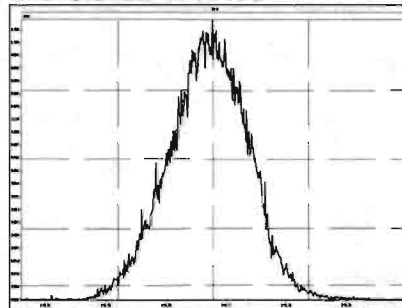
M 292.9824 R 10120



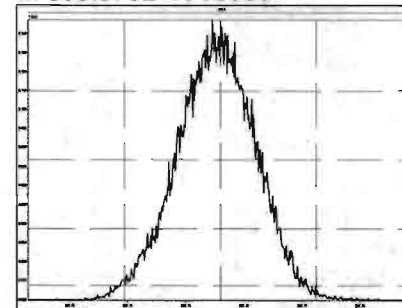
M 304.9824 R 11015



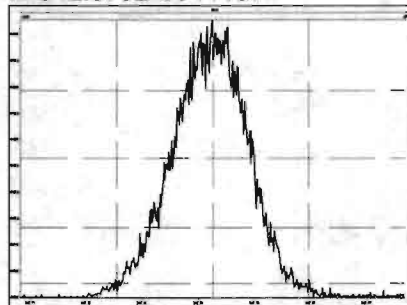
M 318.9792 R 10460



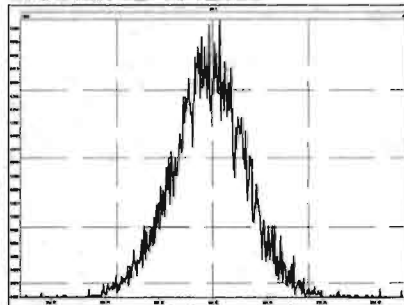
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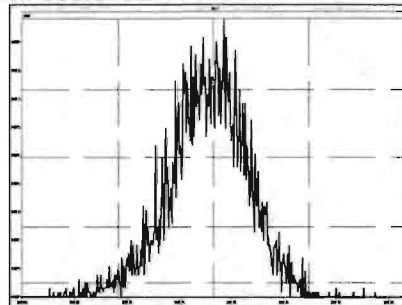
M 342.9792 R 11107



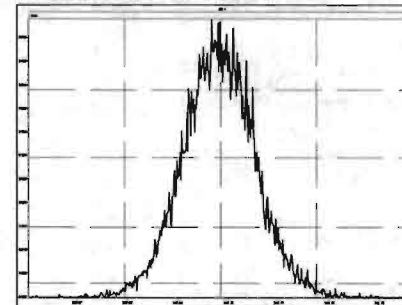
M 354.9792 R 12193



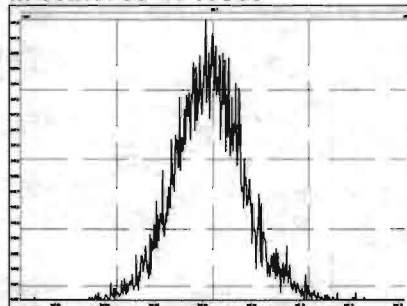
M 366.9792 R 12311



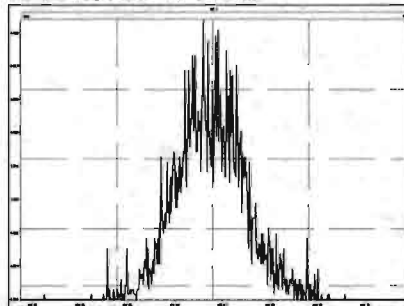
M 380.9760 R 11904



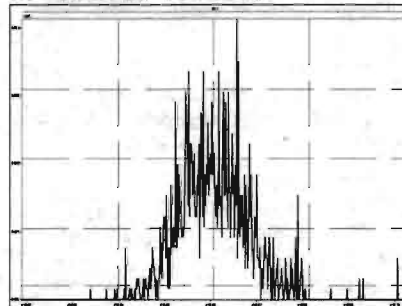
M 392.9760 R 13589



M 404.9760 R 14045



M 416.9760 R 18245



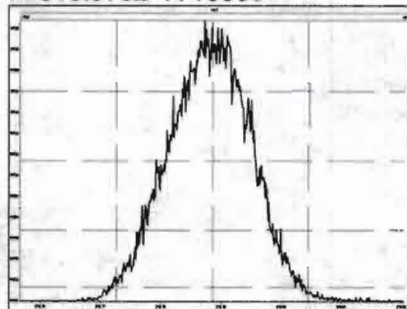
Experiment Calibration Report

MassLynx 4.1 SCN815

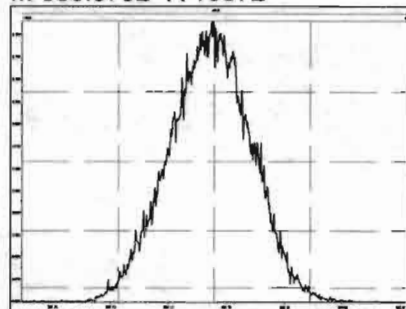
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:19:21 Pacific Daylight Time

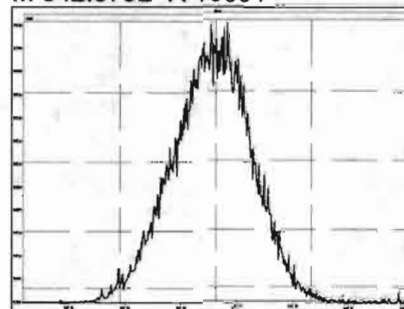
M 318.9792 R 10000



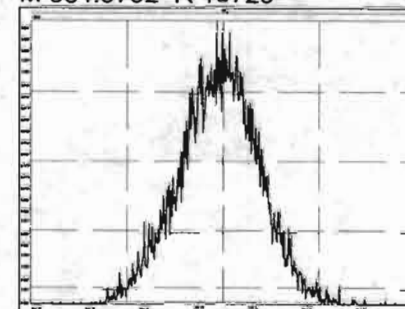
M 330.9792 R 10372



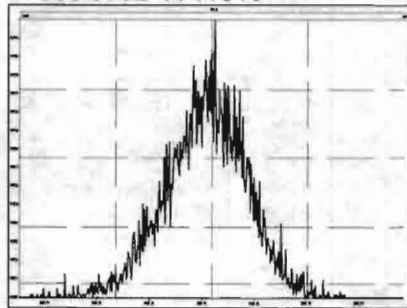
M 342.9792 R 10001



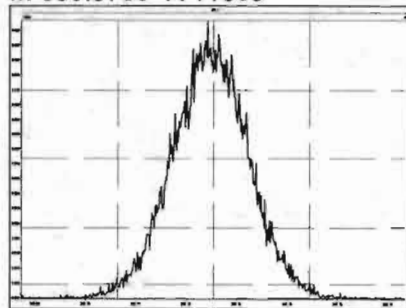
M 354.9792 R 10729



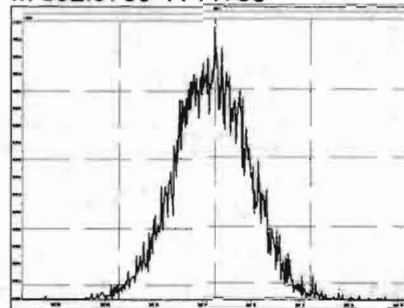
M 366.9792 R 11015



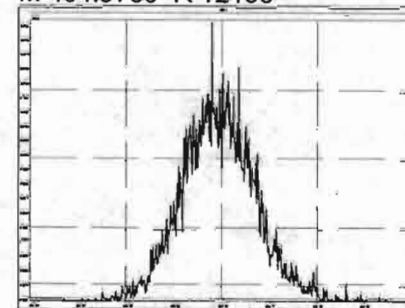
M 380.9760 R 11009



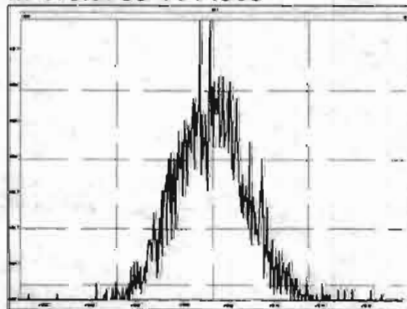
M 392.9760 R 11735



M 404.9760 R 12196



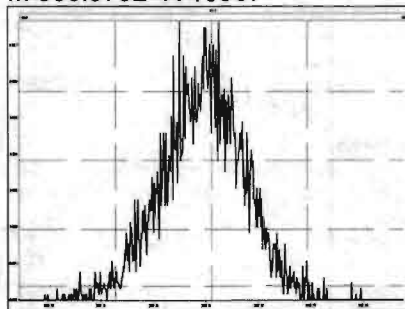
M 416.9760 R 14968



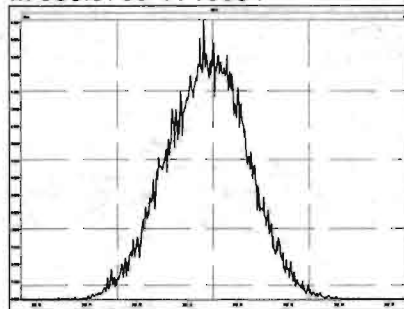
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:19:38 Pacific Daylight Time

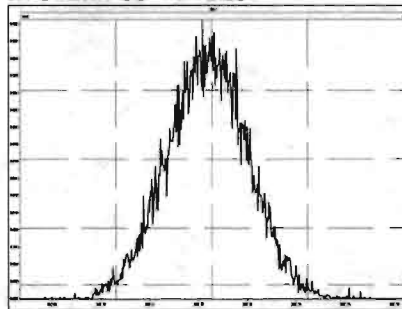
M 366.9792 R 10967



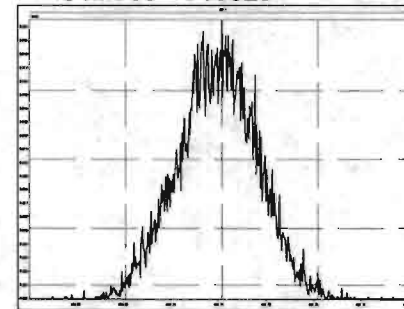
M 380.9760 R 10684



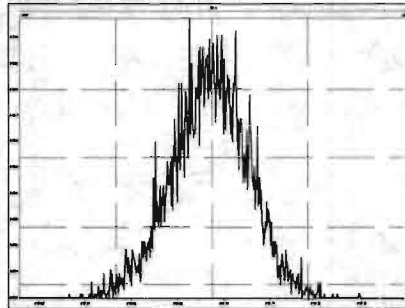
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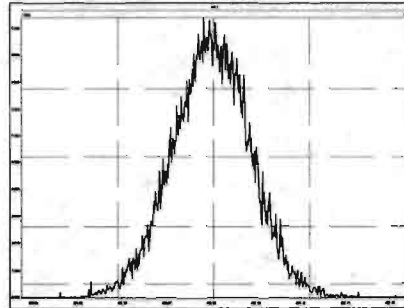
M 404.9760 R 10823



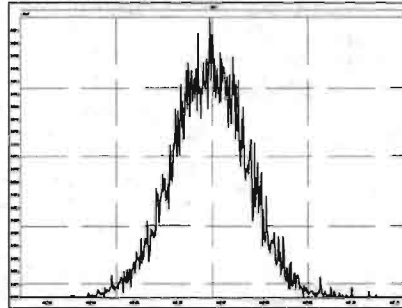
M 416.9760 R 11160



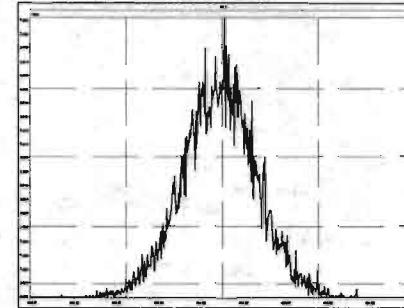
M 430.9728 R 11208



M 442.9728 R 12195



M 454.9728 R 10963



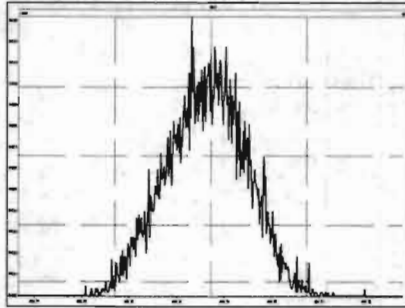
Experiment Calibration Report

MassLynx 4.1 SCN815

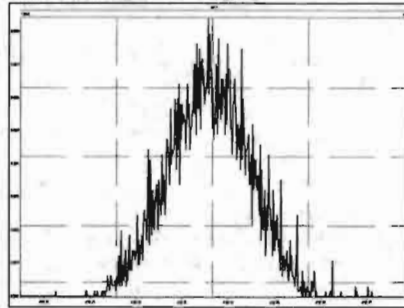
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:19:53 Pacific Daylight Time

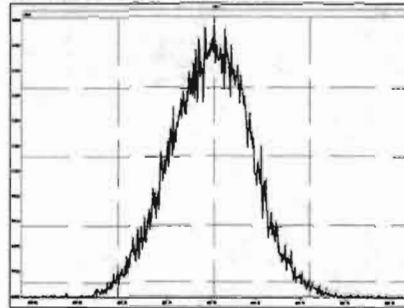
M 404.9760 R 10963



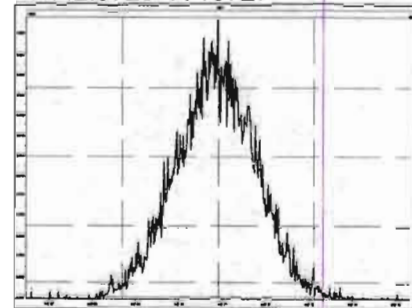
M 416.9760 R 10593



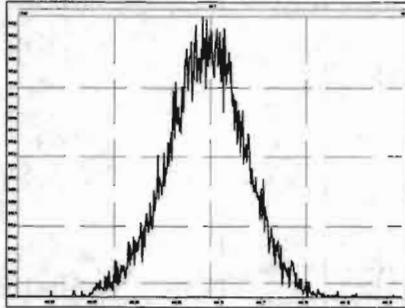
M 430.9728 R 10372



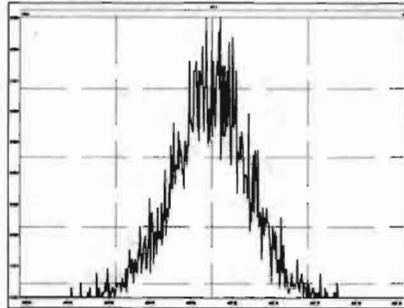
M 442.9728 R 10727



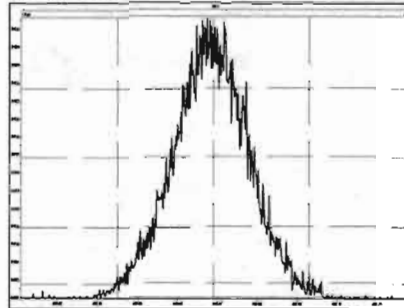
M 454.9728 R 11792



M 466.9728 R 12628



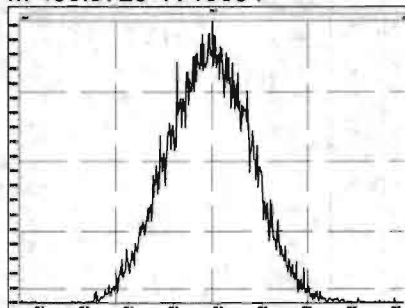
M 480.9696 R 11111



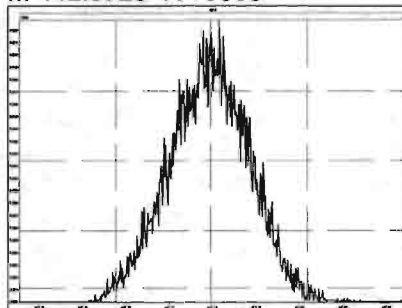
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Printed: Friday, May 29, 2020 07:20:18 Pacific Daylight Time

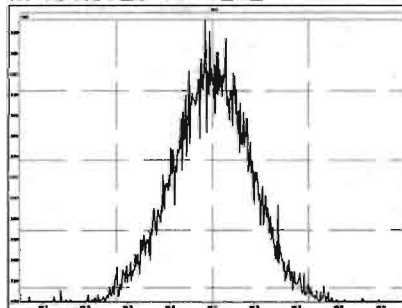
M 430.9728 R 10684



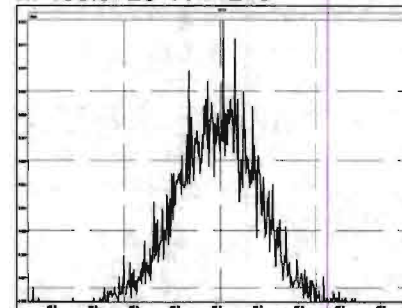
M 442.9728 R 10868



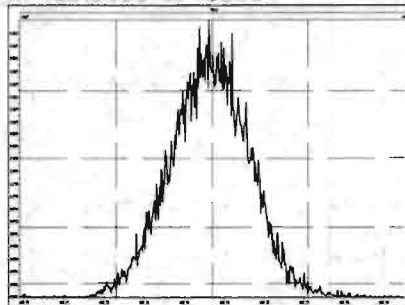
M 454.9728 R 11212



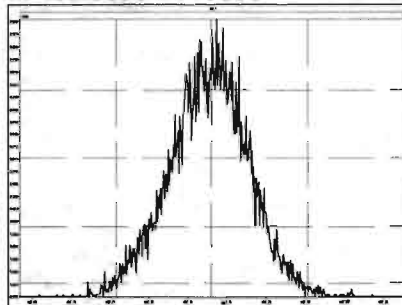
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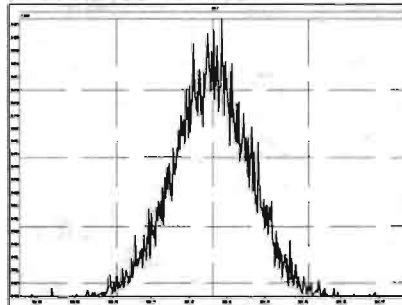
M 480.9696 R 10963



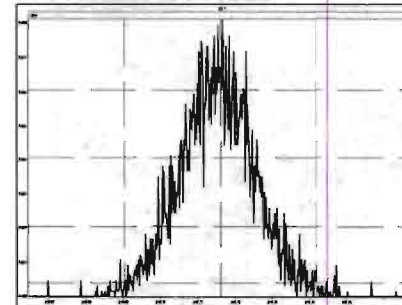
M 492.9696 R 10593



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 01 02/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Compound name: 2,3,7,8-TCDF

Response Factor: 0.9819
RRF SD: 0.0791981, Relative SD: 8.06581
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.08271
RRF SD: 0.0939058, Relative SD: 8.67318
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

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

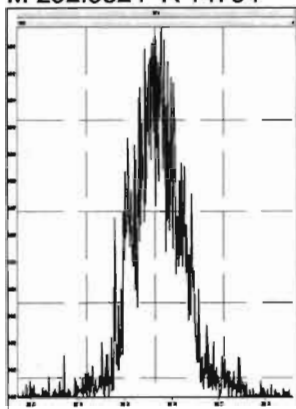
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Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

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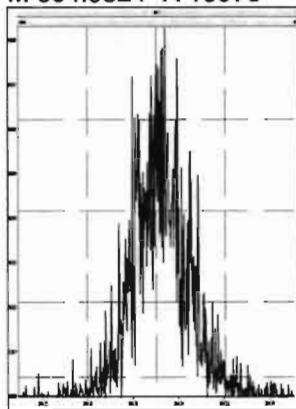
Compound name: 2,3,7,8-TCDF

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1	200211D2_1	SOLVENT BLANK	11-Feb-20	19:58:43
2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
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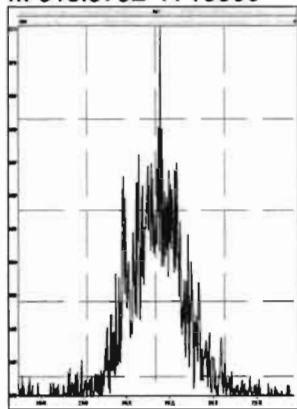
M 292.9824 R 14754



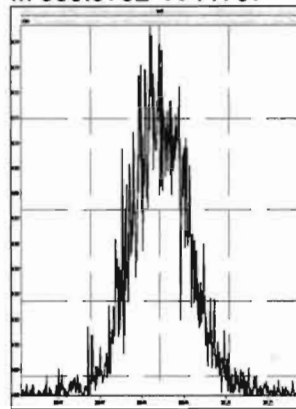
M 304.9824 R 15978



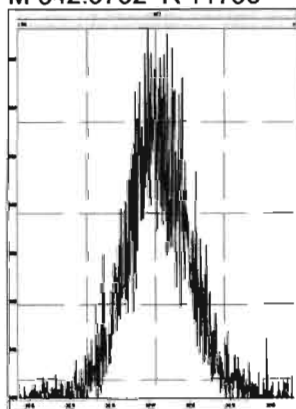
M 318.9792 R 15503



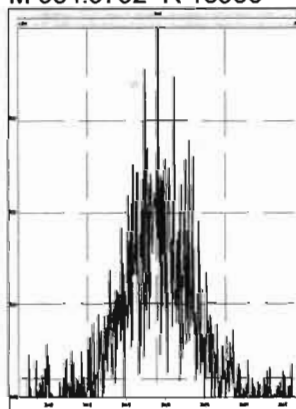
M 330.9792 R 11737



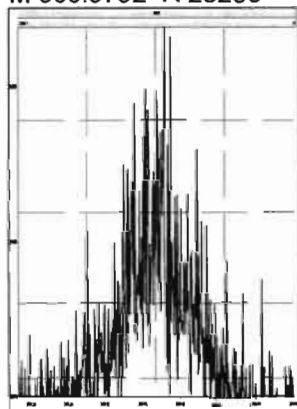
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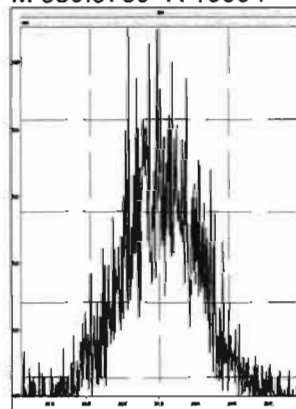
M 354.9792 R 15966



M 366.9792 R 28256



M 380.9760 R 13094



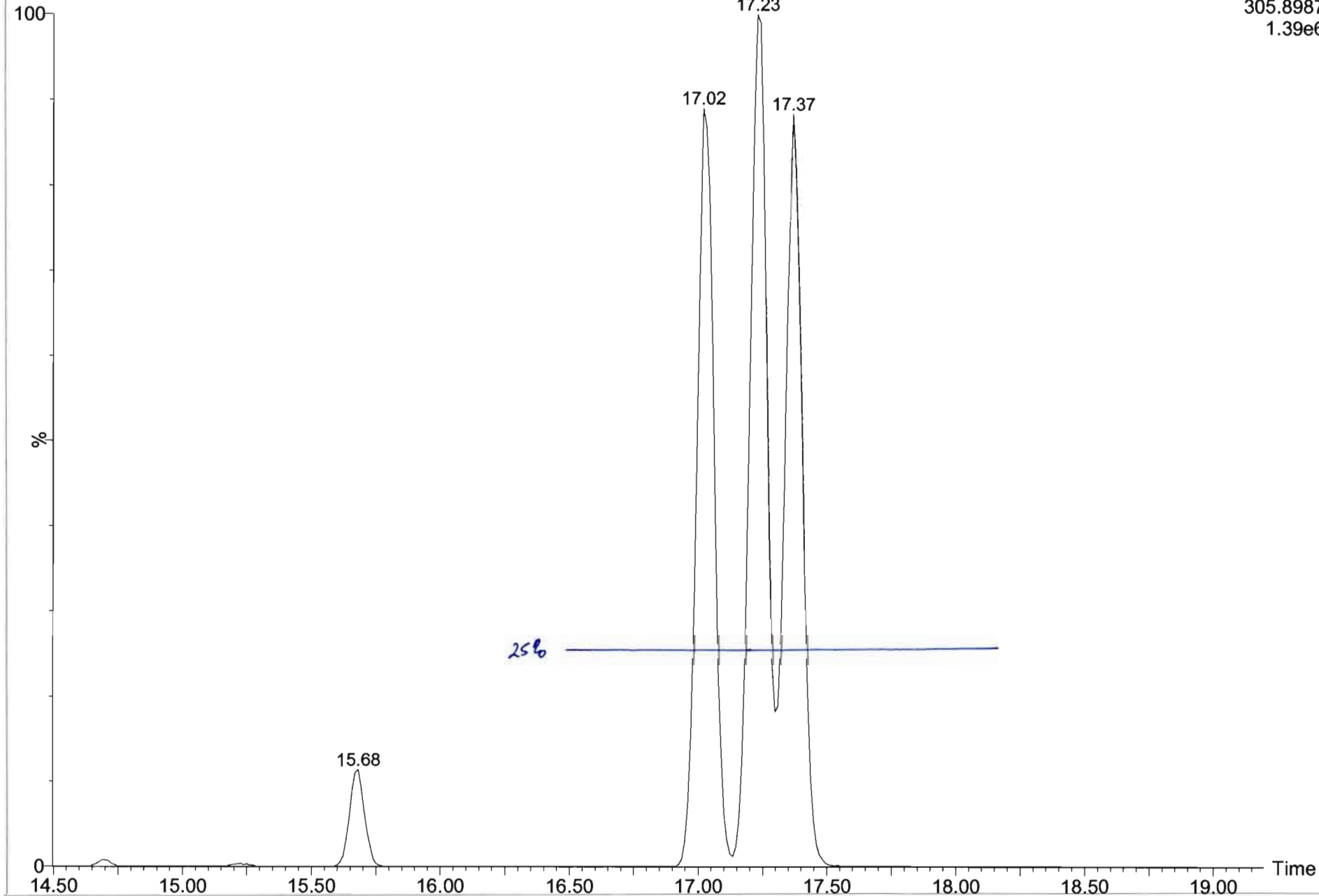
200211D2_2

20:28:53

Voltage SIR 12 Channels EI+

305.8987

1.39e6



Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

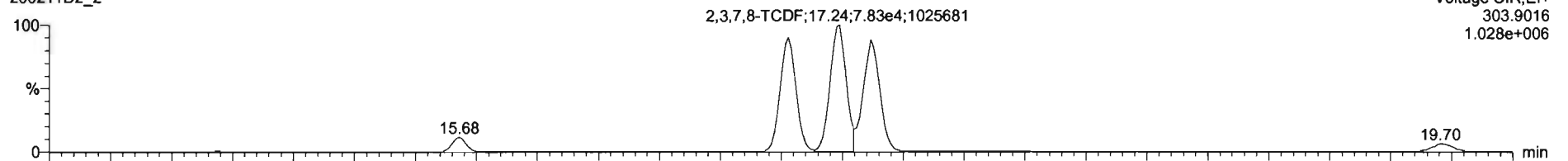
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Name: 200211D2_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

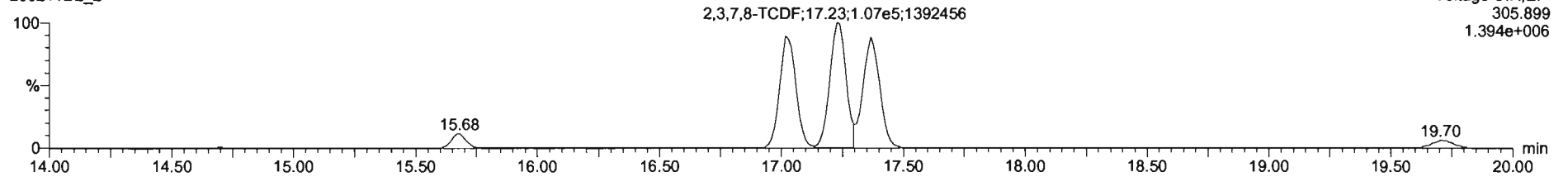
2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
303.9016
1.028e+006

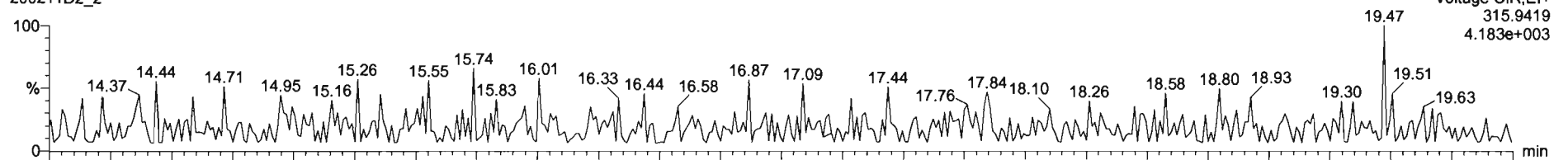
200211D2_2



Voltage SIR,EI+
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1.394e+006

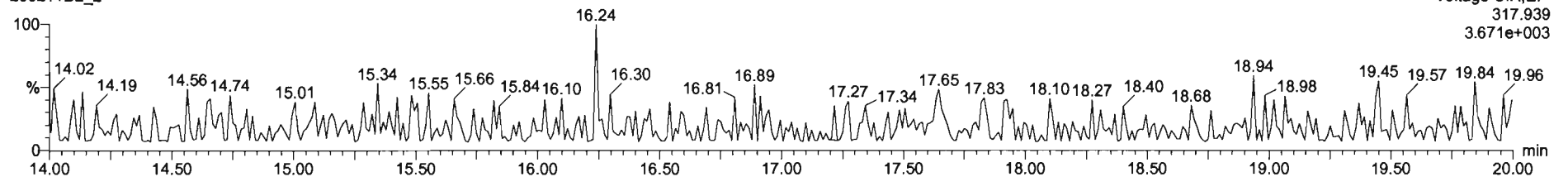
13C-2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
315.9419
4.183e+003

200211D2_2



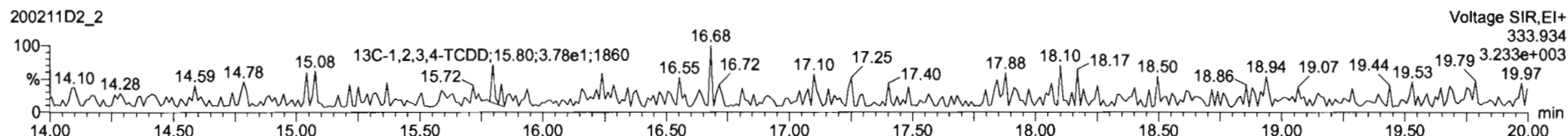
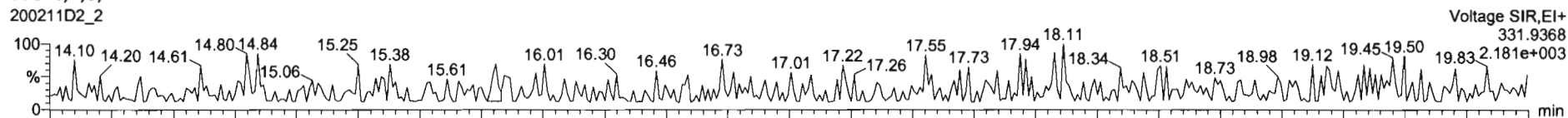
Voltage SIR,EI+
317.939
3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

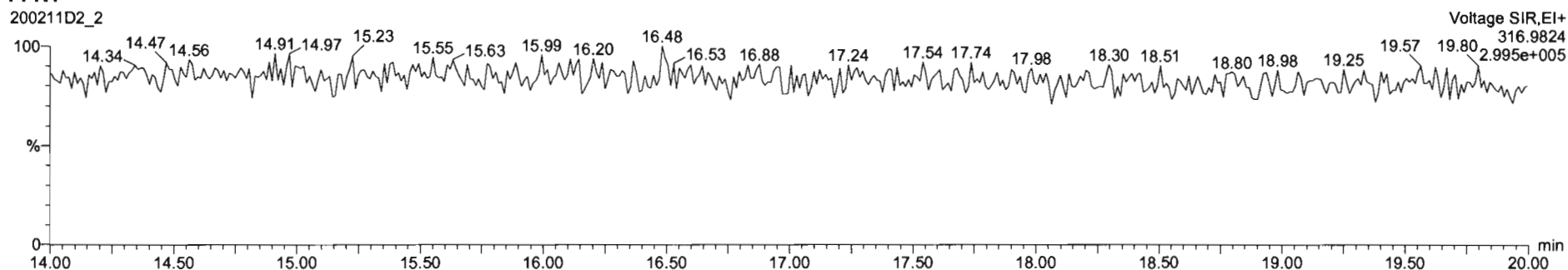
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Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

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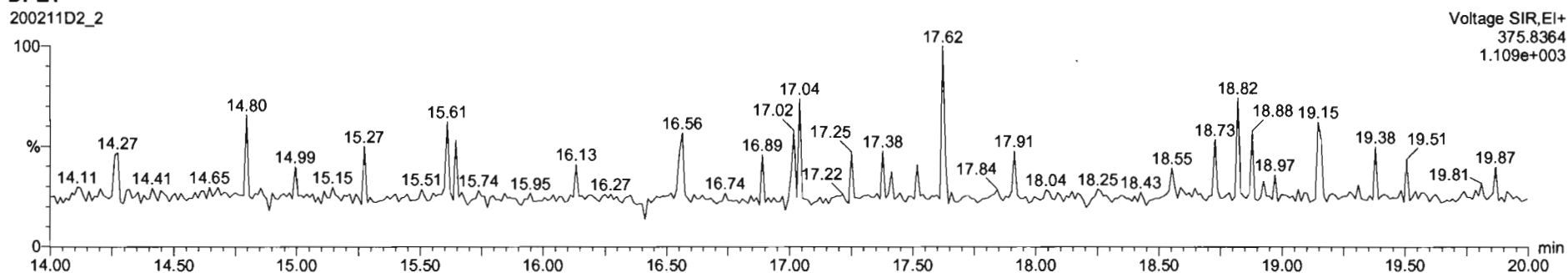
13C-1,2,3,4-TCDD



PFK1



DPE1



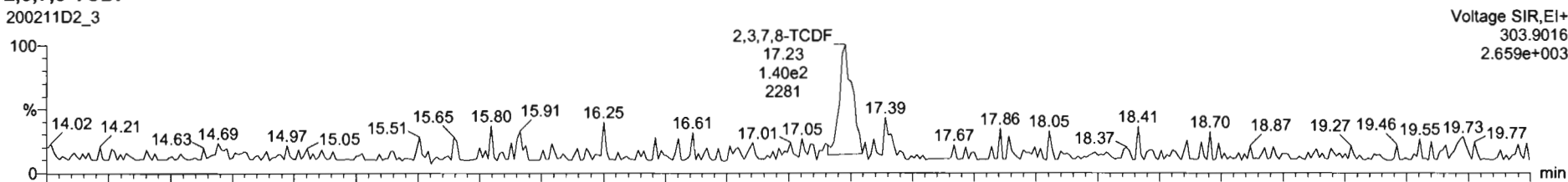
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

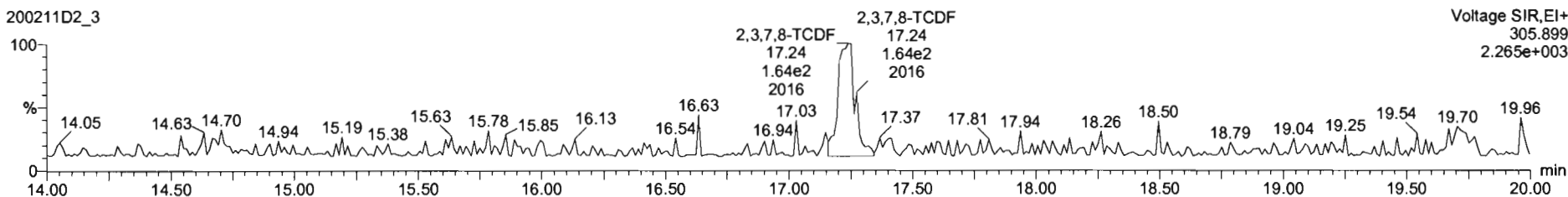
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Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

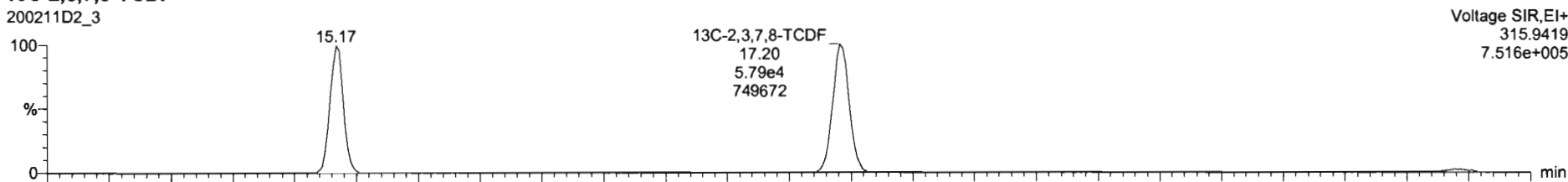
2,3,7,8-TCDF
200211D2_3



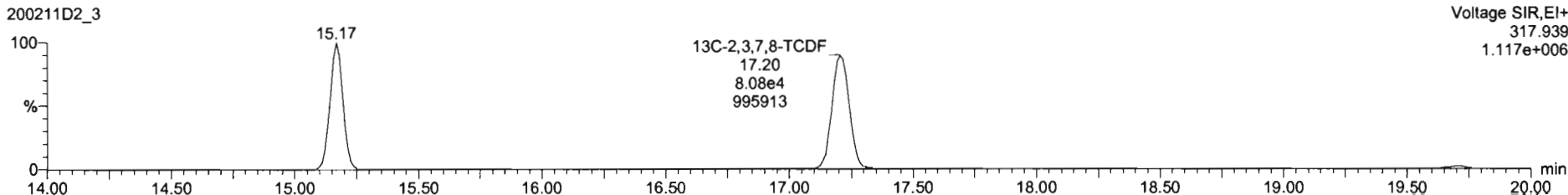
200211D2_3



13C-2,3,7,8-TCDF
200211D2_3



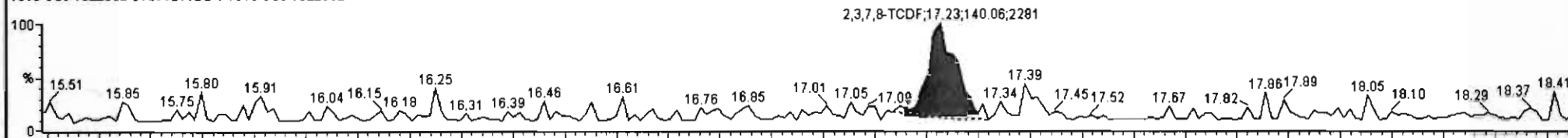
200211D2_3



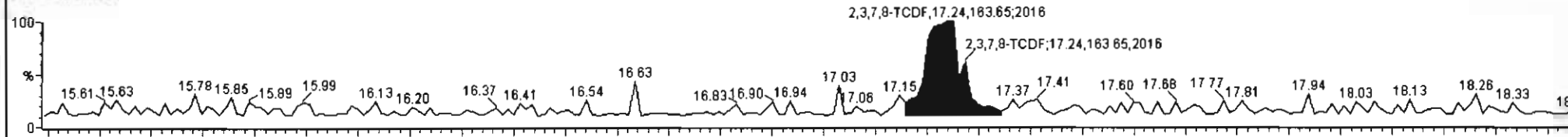
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

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

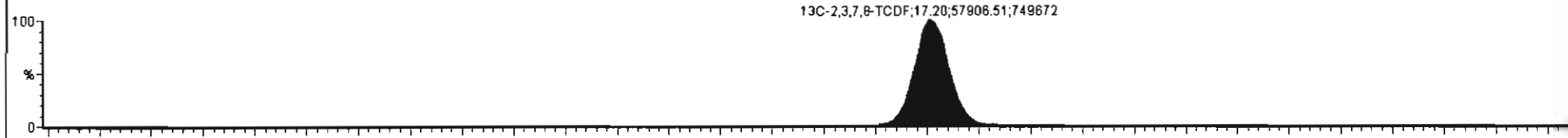
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



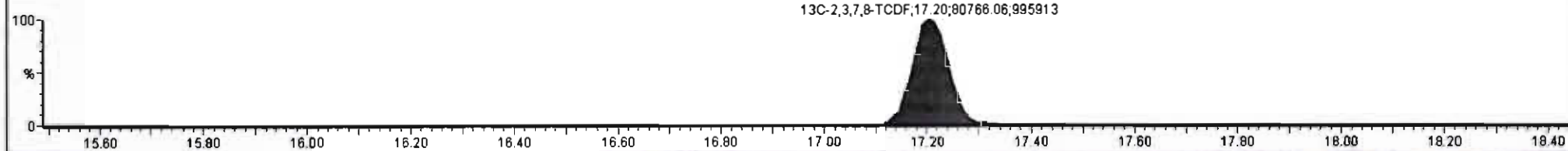
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



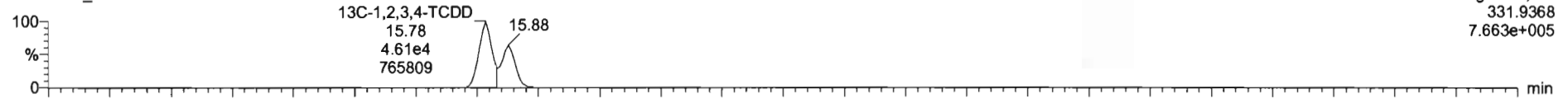
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

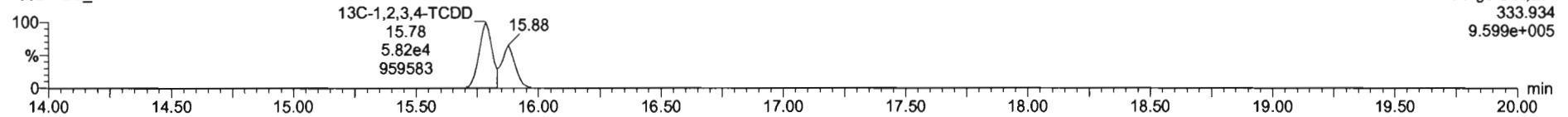
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13C-1,2,3,4-TCDD

200211D2_3

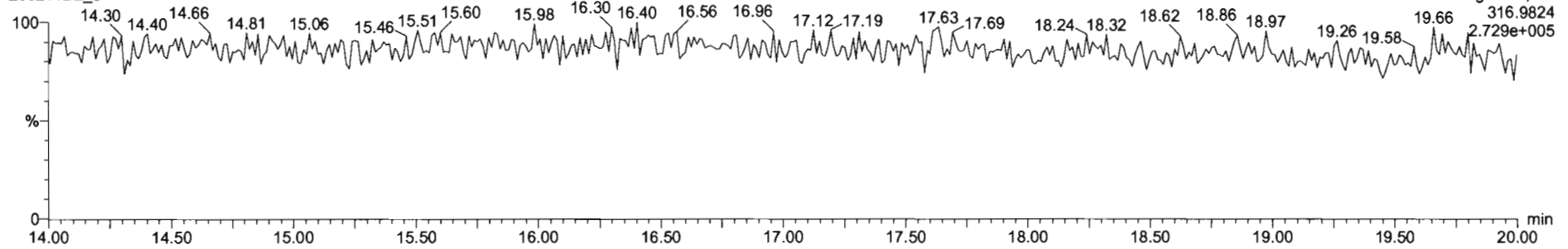


200211D2_3



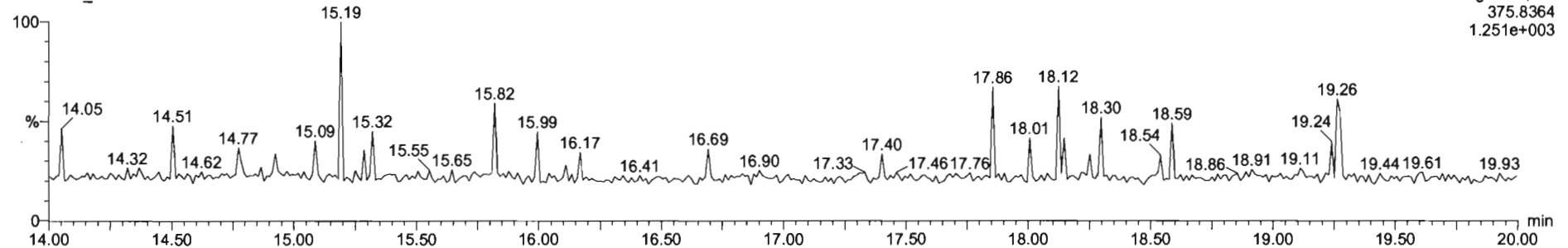
PFK1

200211D2_3



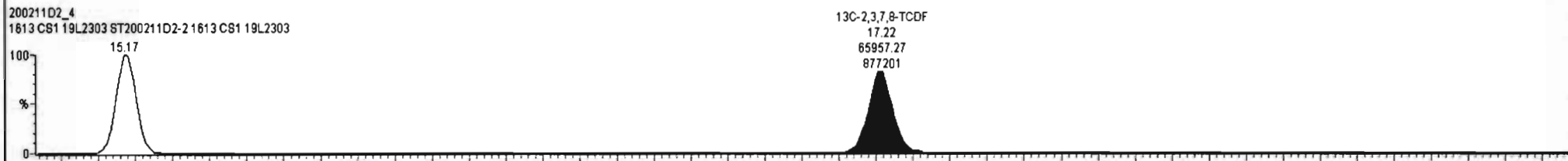
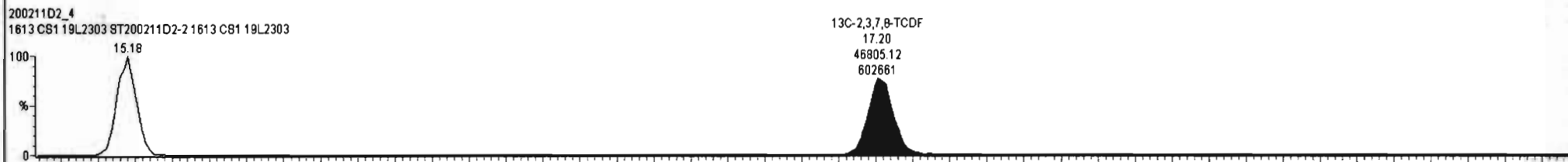
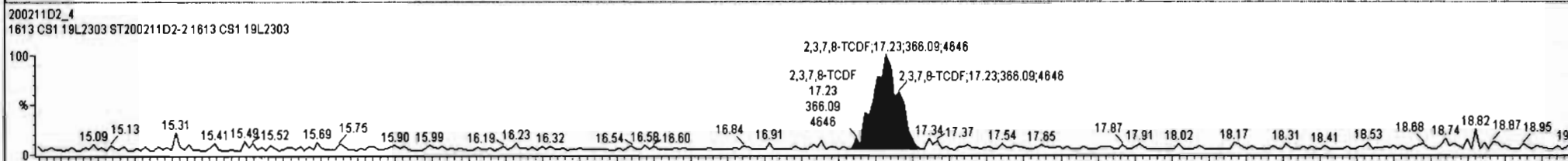
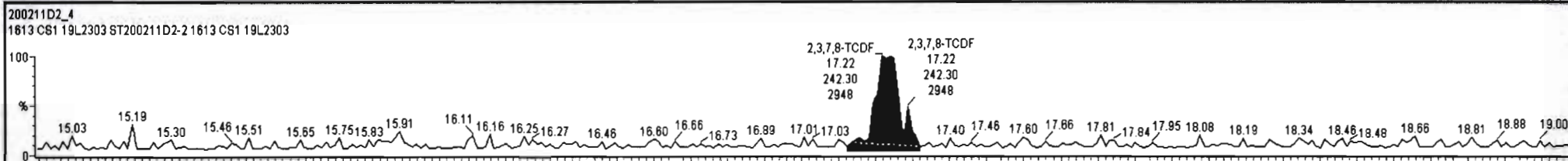
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.08e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.548
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



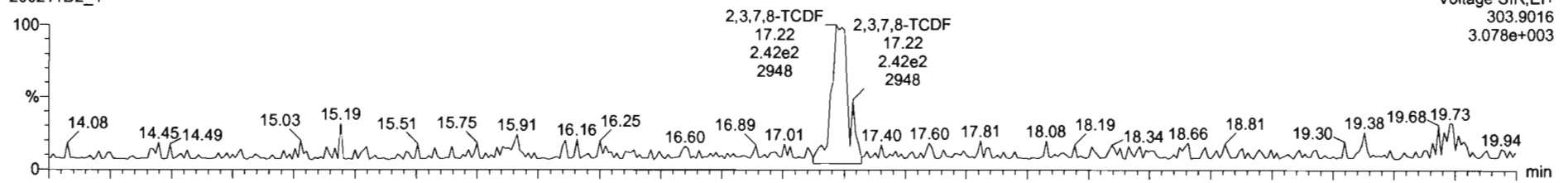
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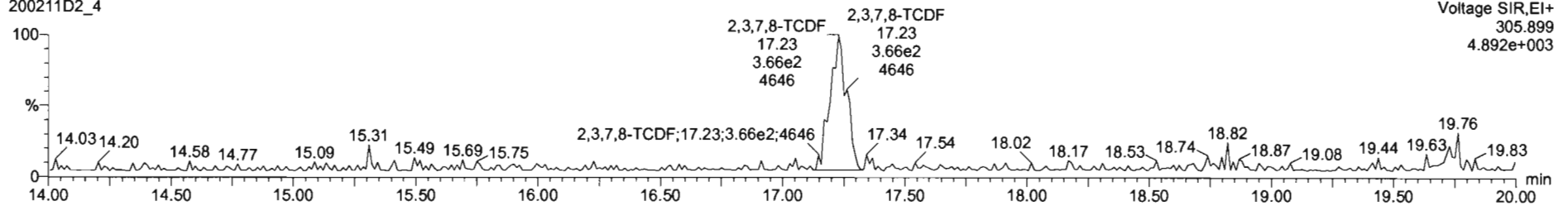
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2,3,7,8-TCDF

200211D2_4

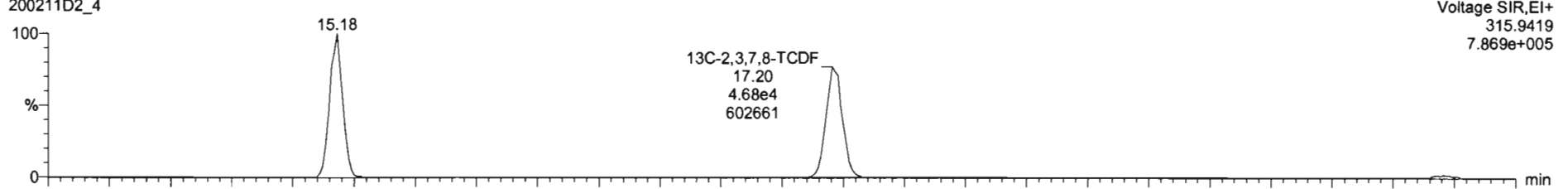


200211D2_4

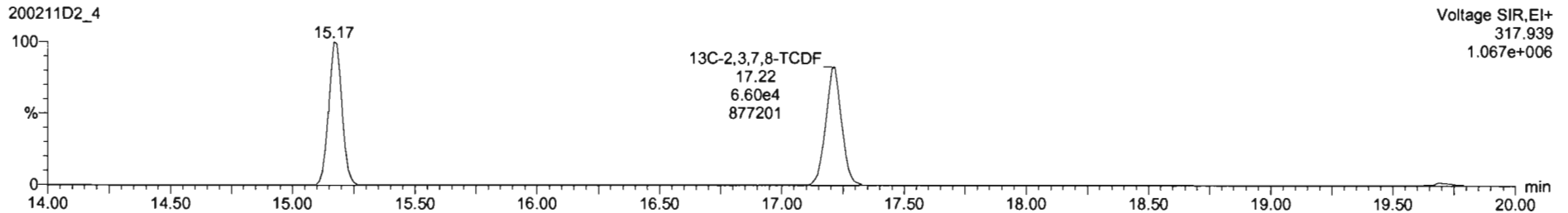


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



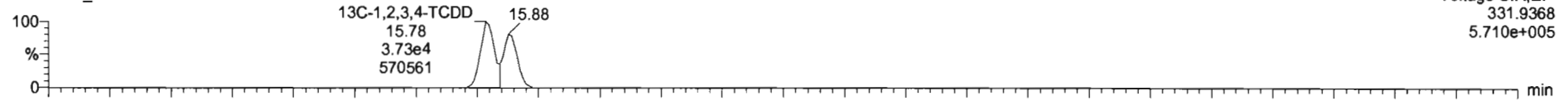
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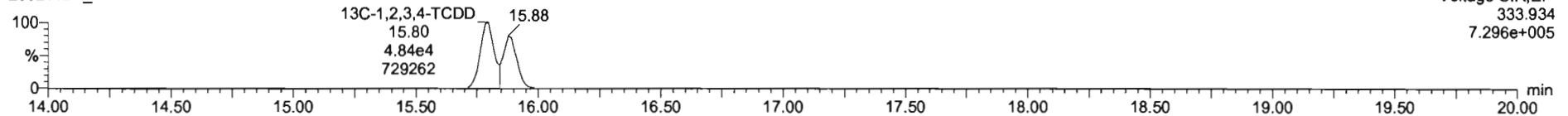
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13C-1,2,3,4-TCDD

200211D2_4

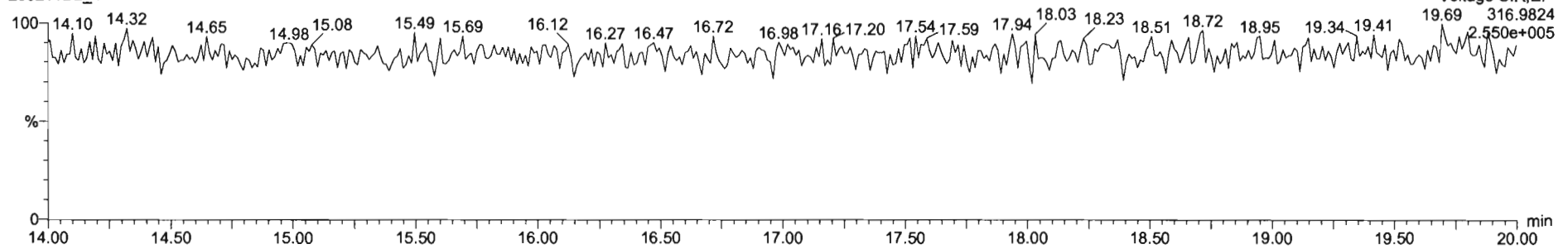


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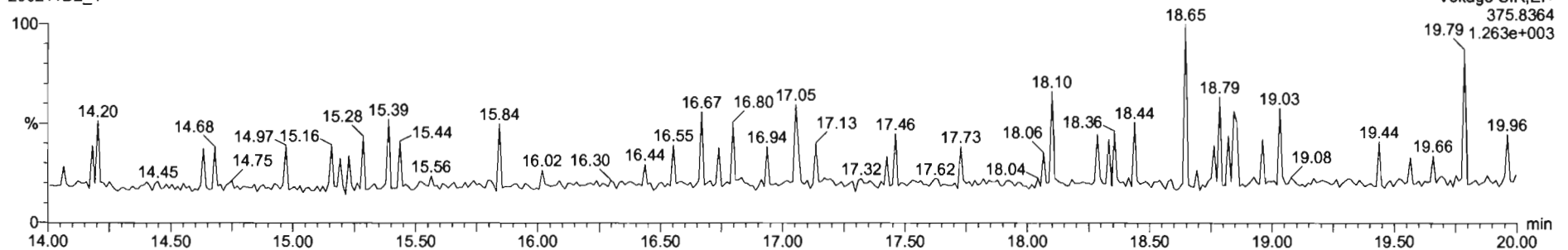
PFK1

200211D2_4



DPE1

200211D2_4



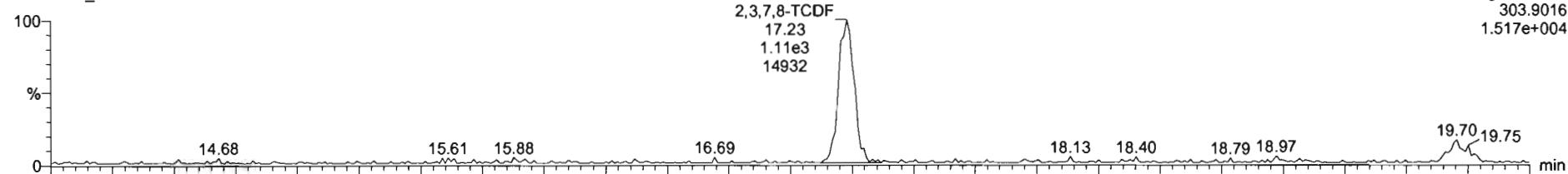
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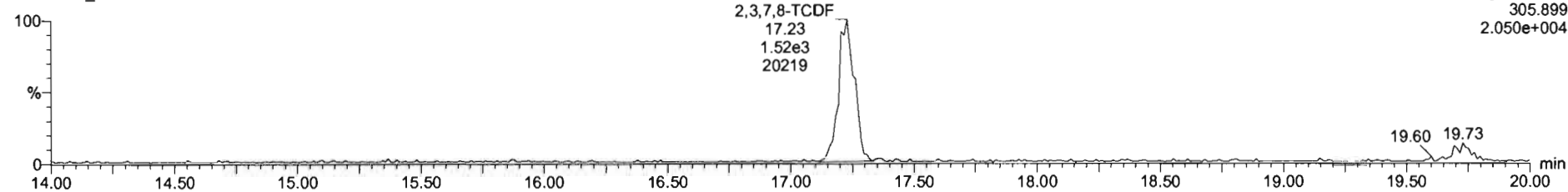
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2,3,7,8-TCDF

200211D2_5

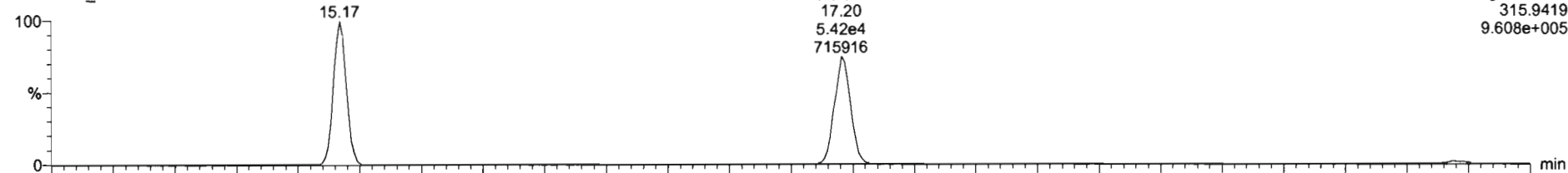


200211D2_5

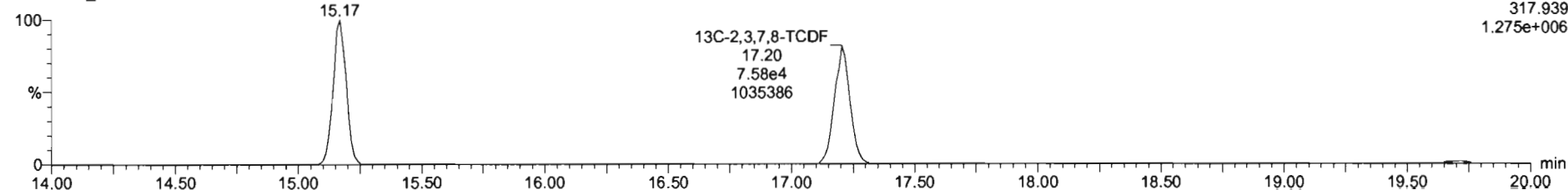


13C-2,3,7,8-TCDF

200211D2_5



200211D2_5

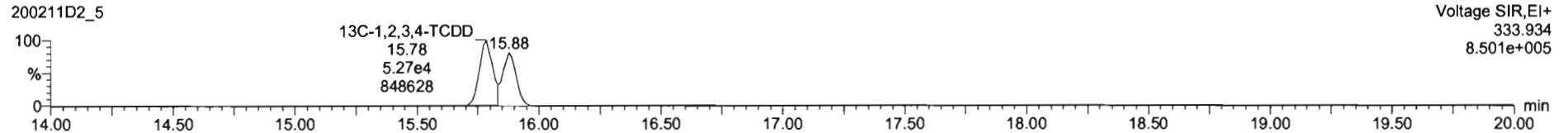
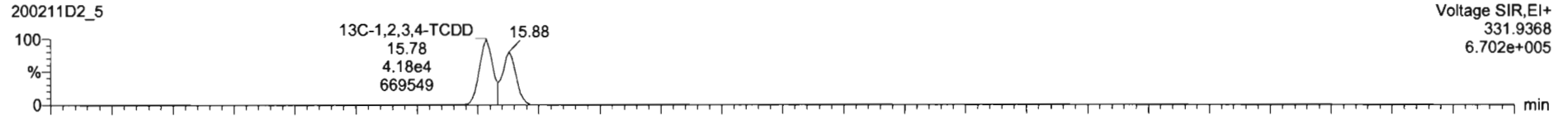


Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

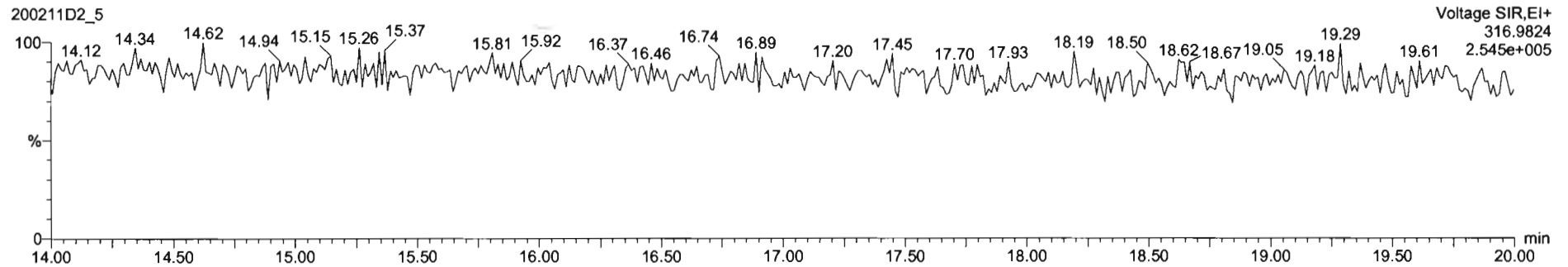
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

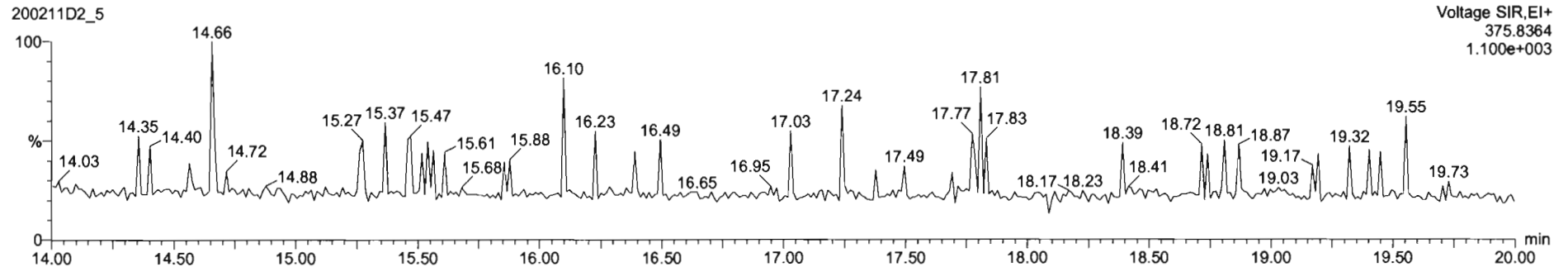
13C-1,2,3,4-TCDD



PFK1



DPE1



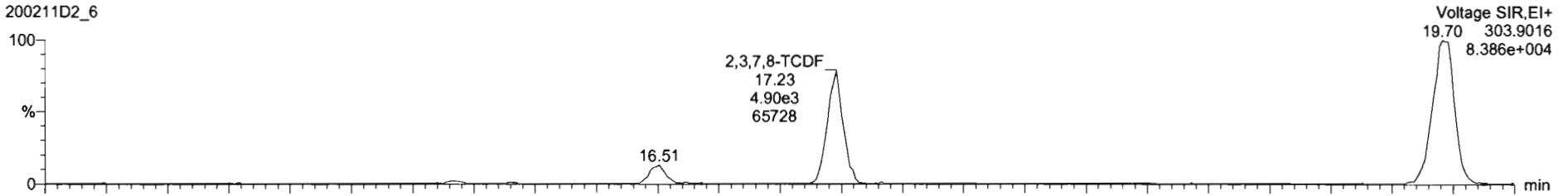
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

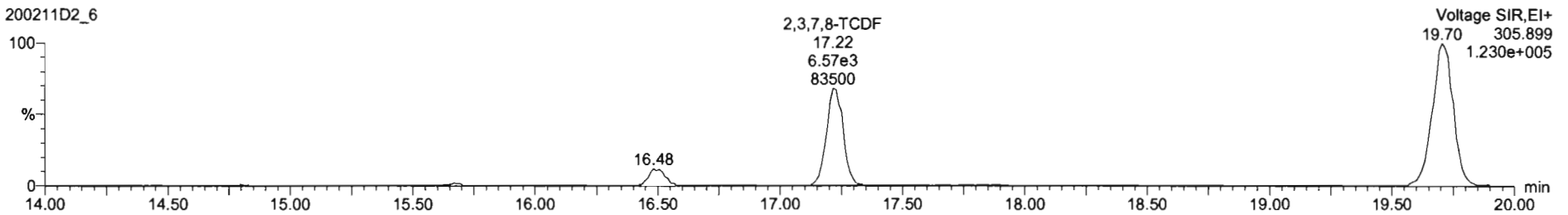
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200211D2_6

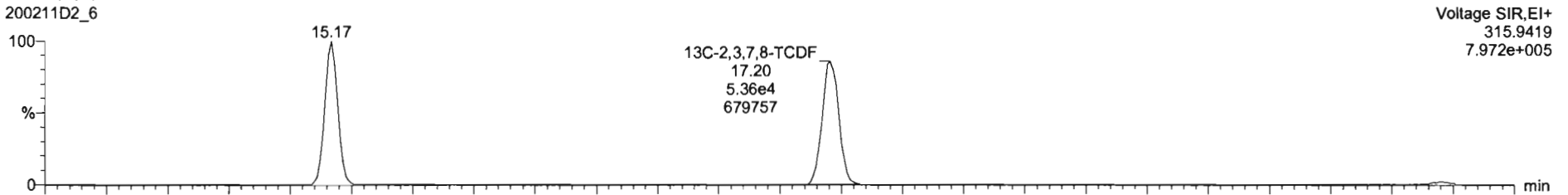


200211D2_6

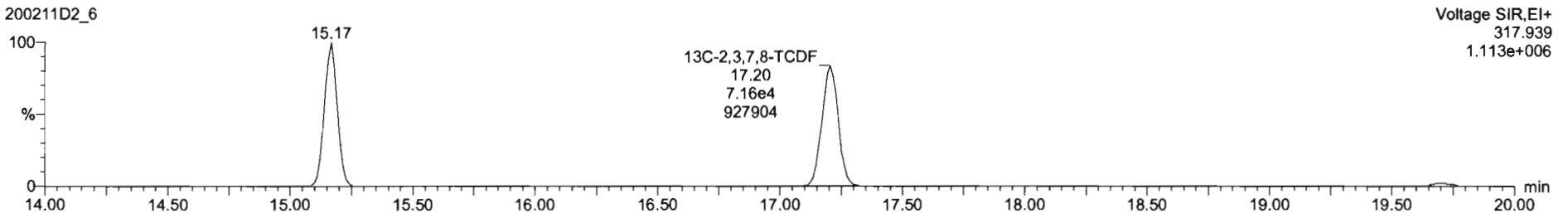


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



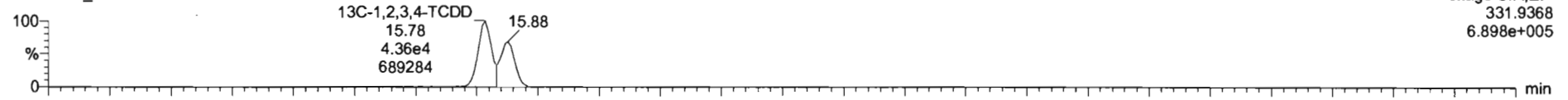
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

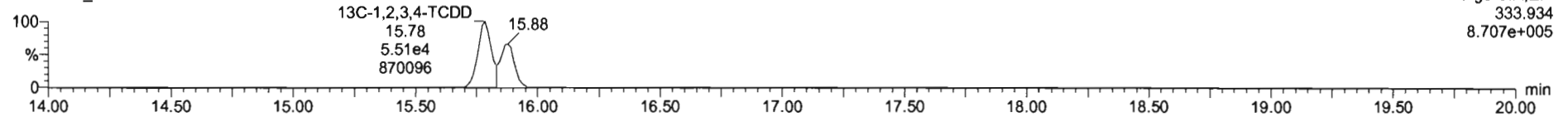
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13C-1,2,3,4-TCDD

200211D2_6

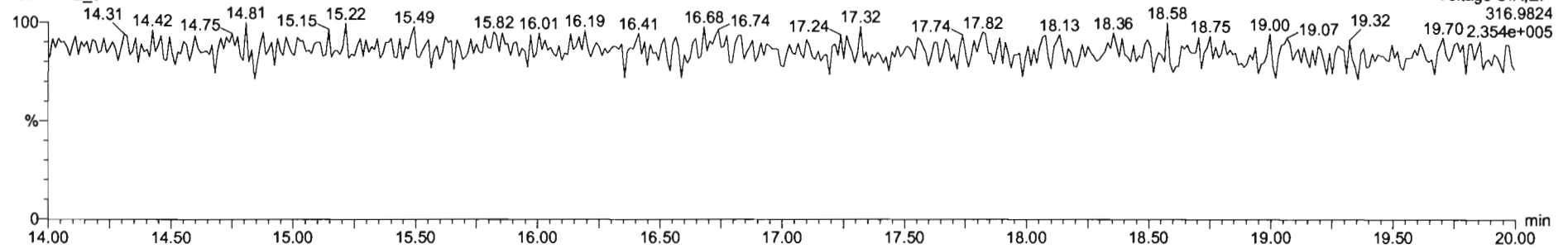


200211D2_6



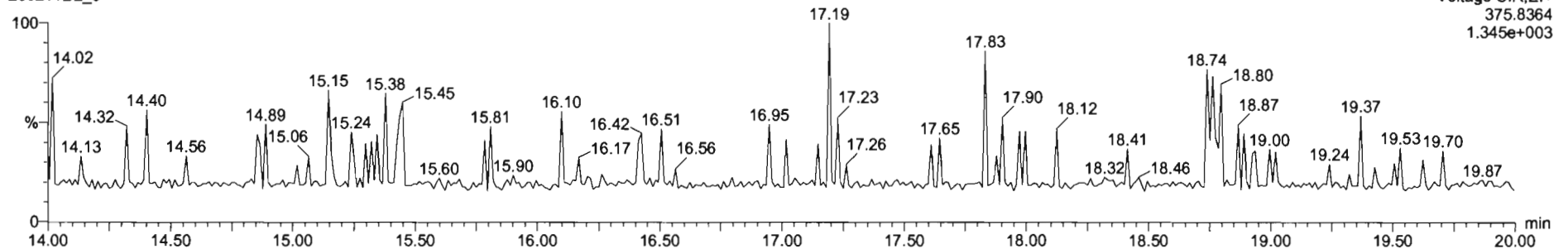
PFK1

200211D2_6



DPE1

200211D2_6



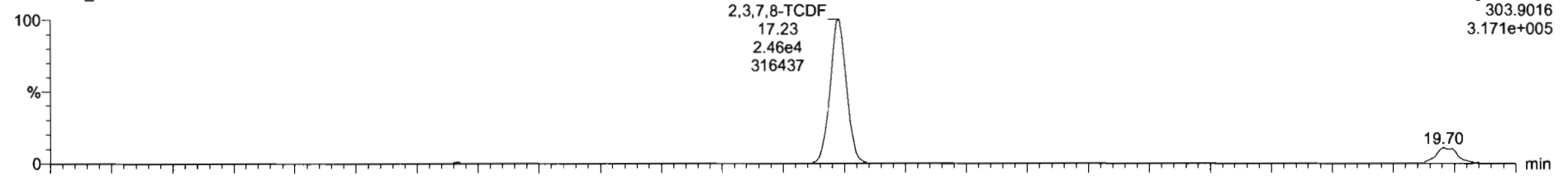
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

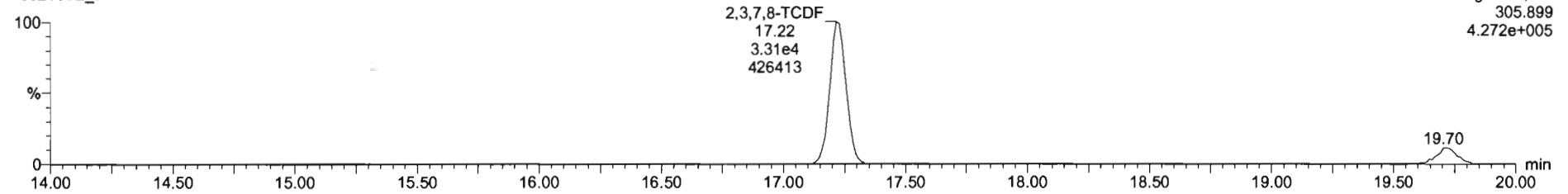
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200211D2_7

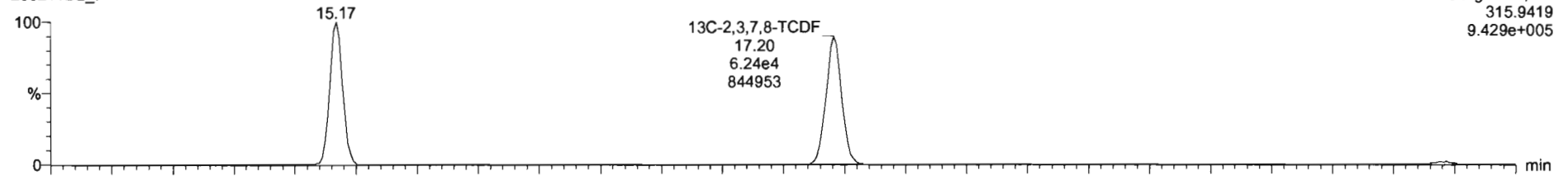


200211D2_7

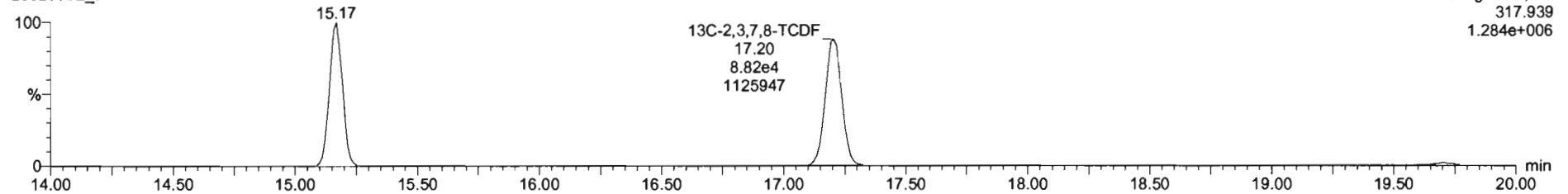


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



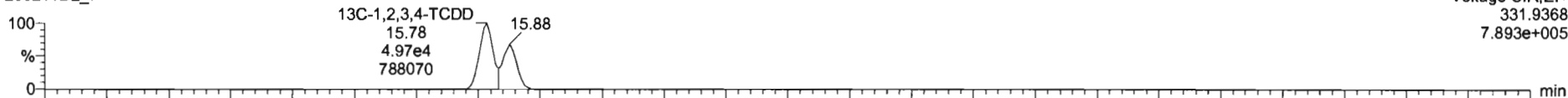
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

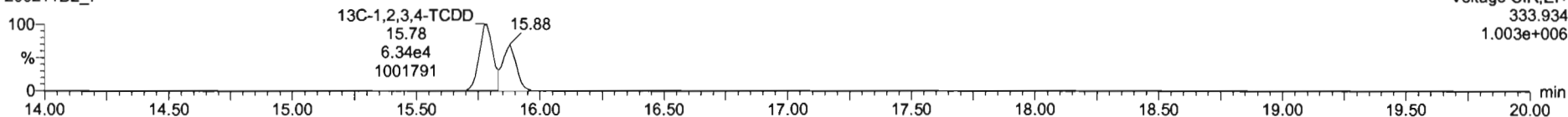
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2_7

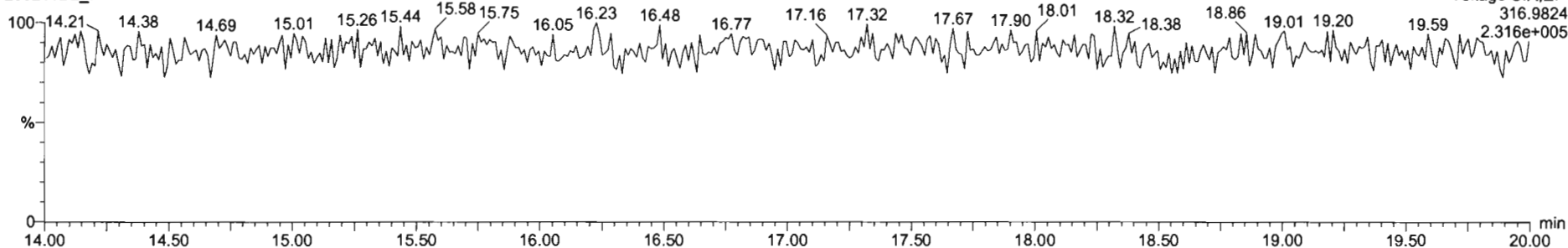


200211D2_7



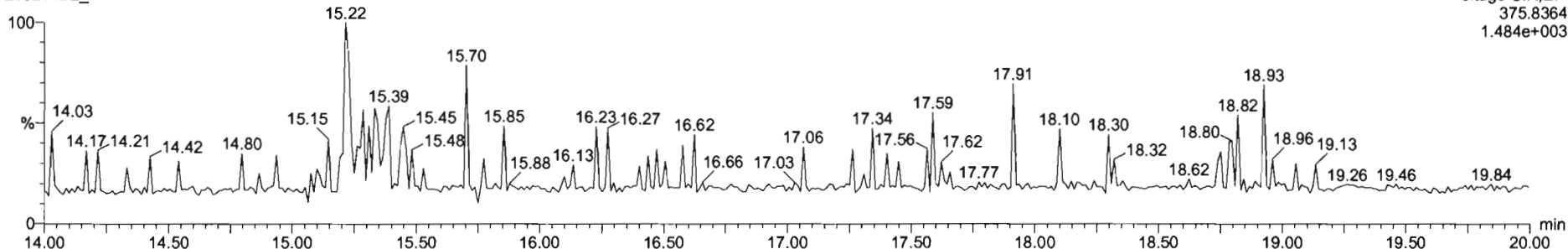
PFK1

200211D2_7



DPE1

200211D2_7



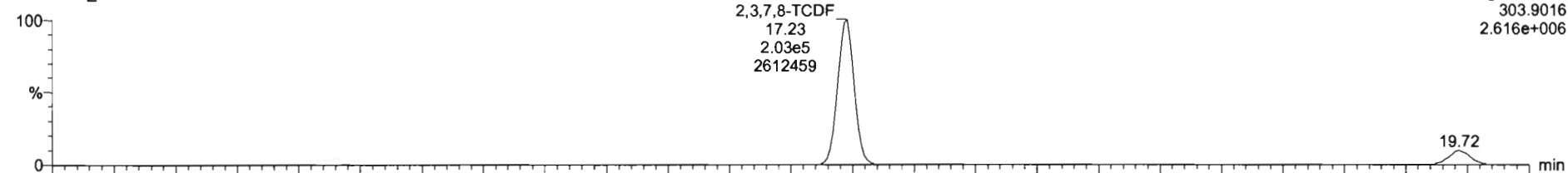
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

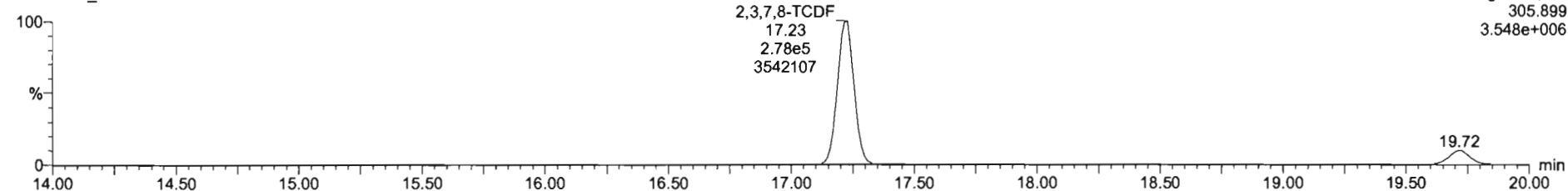
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

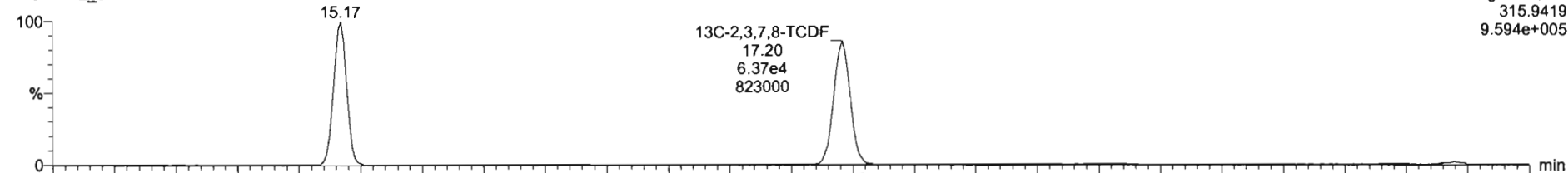
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

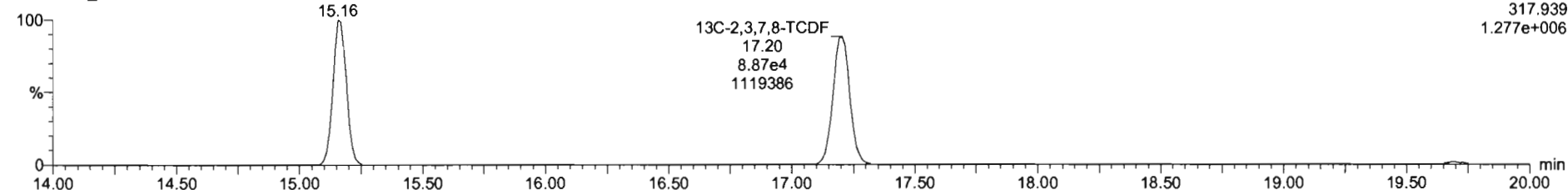
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

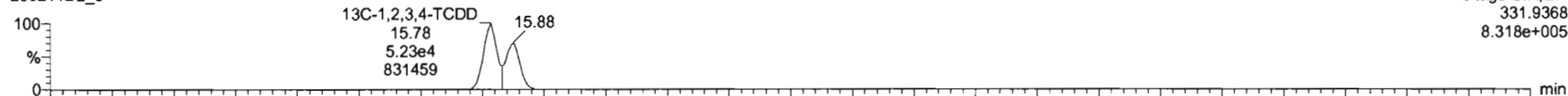
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

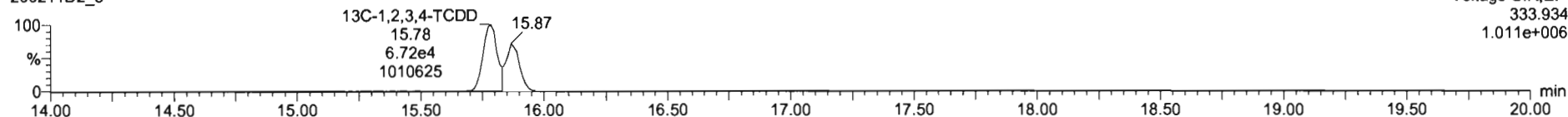
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13C-1,2,3,4-TCDD

200211D2_8

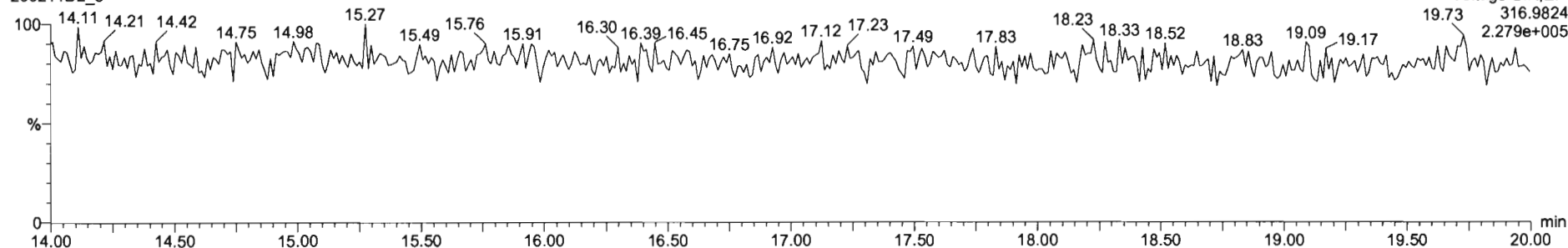


200211D2_8



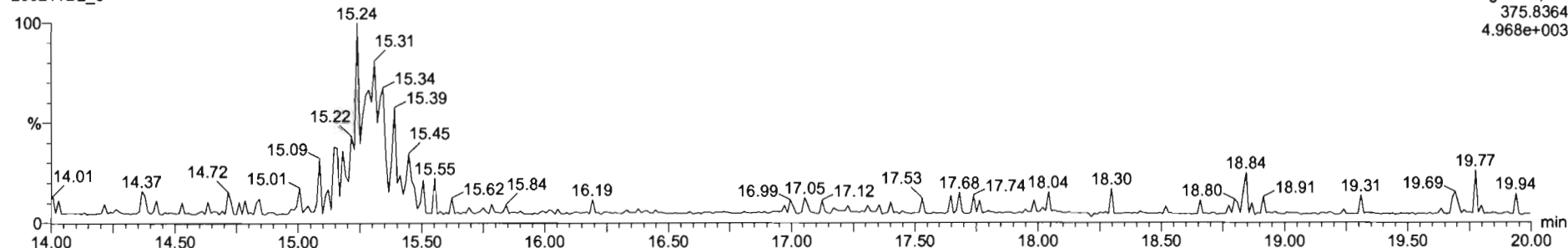
PFK1

200211D2_8

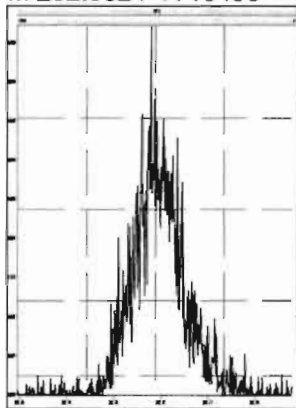


DPE1

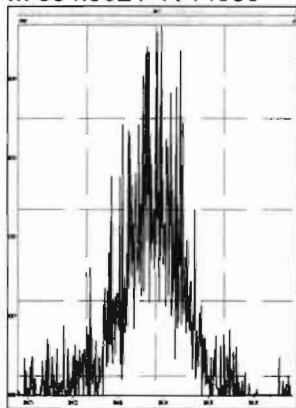
200211D2_8



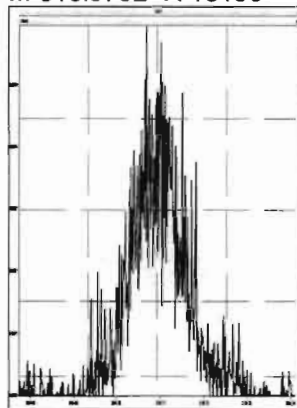
M 292.9824 R 13493



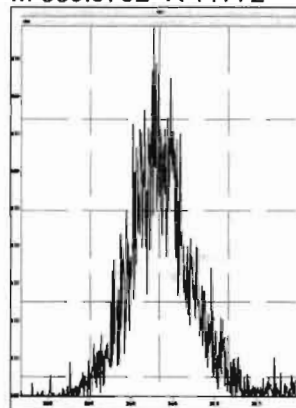
M 304.9824 R 14983



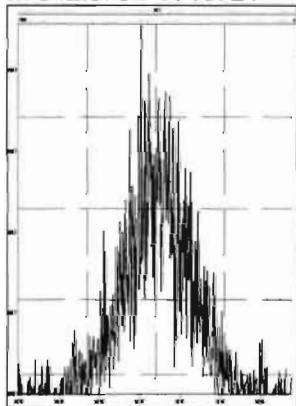
M 318.9792 R 15196



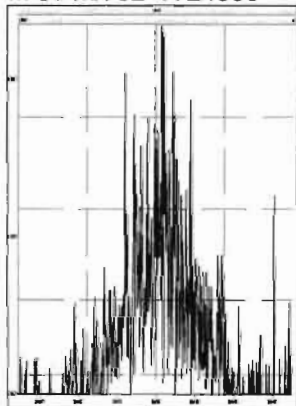
M 330.9792 R 11772



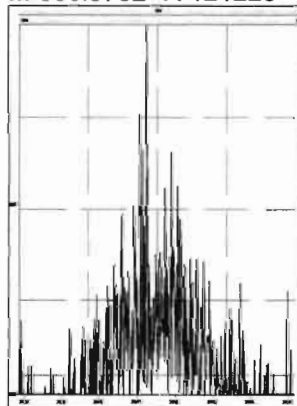
M 342.9792 R 13721



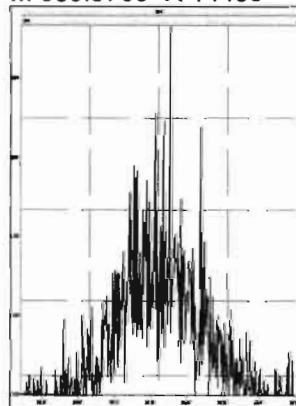
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

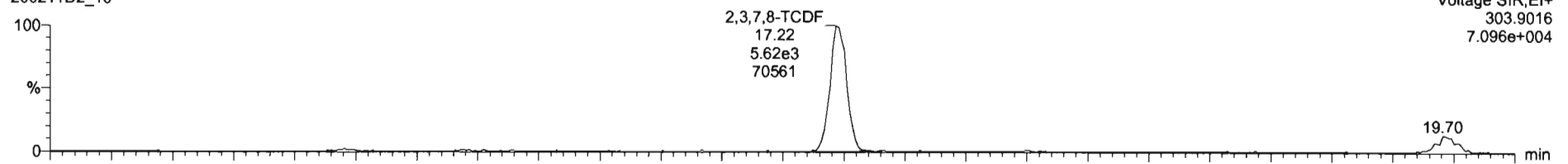
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

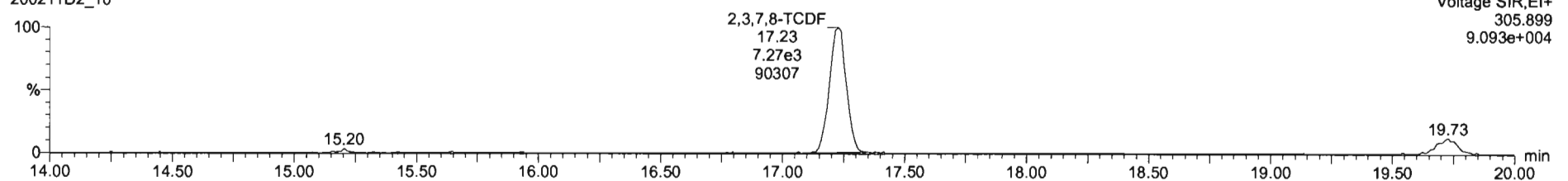
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

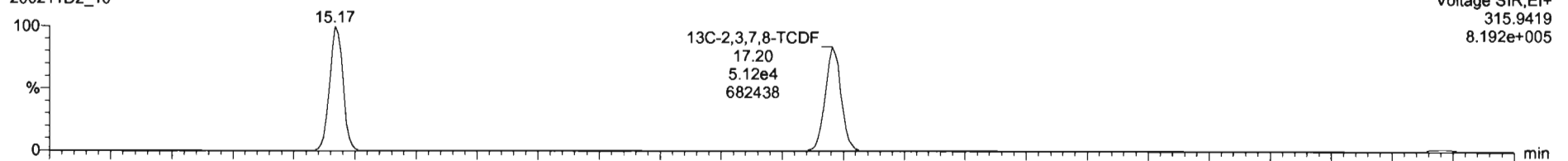


200211D2_10

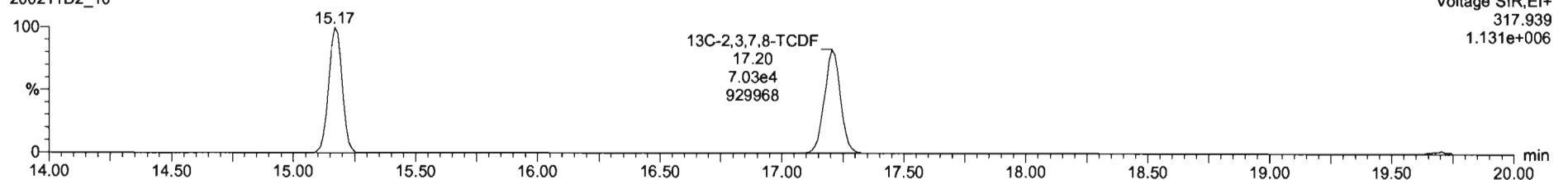


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



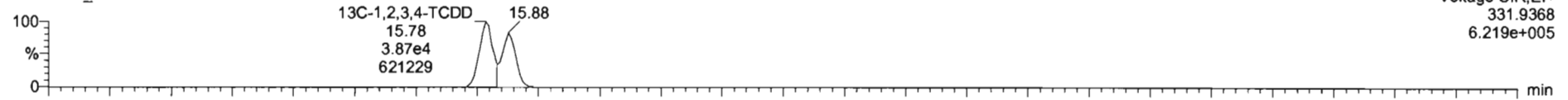
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

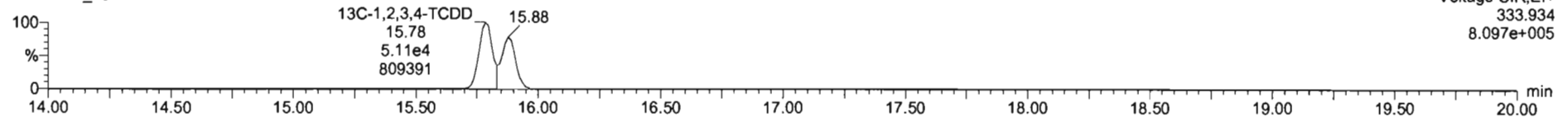
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

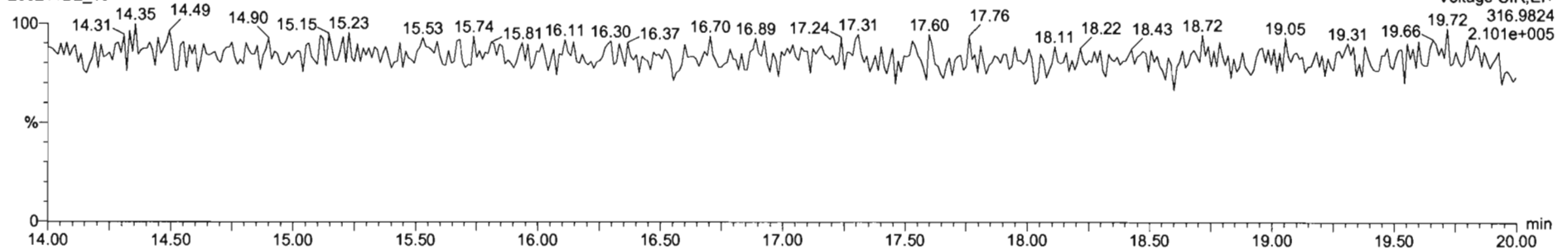


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

