



May 15, 2020

Vista Work Order No. 2000952

Ms. Delaney Peterson
Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 28, 2020 under your Project Name 'Gasco PDI'.

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

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

Sincerely,

Martha Maier
Laboratory Director



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

Vista Work Order No. 2000952

Case Narrative

Sample Condition on Receipt:

Twelve sediment samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The sample container for "PDI-158-A-05-06-200423" broke during labeling. The sample did not appear to be compromised. The contents of the container were transferred to a clean amber glass container. The analytical request noted on the Chain of Custody for EPA Method 1668C for sample "PDI-160SC-A-00-01-200423" was assigned to Vista Work Order No. 2000956.

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-158SC-A-04-05-200423". The RPDs were within acceptance criteria.

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000952-01	PDI-158SC-A-04-05-200423	DUP23-Apr-20 12:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-02	PDI-158SC-A-05-06-200423	23-Apr-20 12:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-03	PDI-158SC-A-06-07-200423	23-Apr-20 12:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-04	PDI-158SC-A-07-08-200423	23-Apr-20 12:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-05	PDI-160SC-A-00-01-200423	23-Apr-20 15:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-06	PDI-160SC-A-01-02-200423	23-Apr-20 15:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-07	PDI-160SC-A-02-03-200423	23-Apr-20 15:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-08	PDI-160SC-A-03-04-200423	23-Apr-20 15:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-09	PDI-160SC-A-04-05-200423	23-Apr-20 15:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-10	PDI-160SC-A-05-06-200423	23-Apr-20 15:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-11	PDI-160SC-A-06-07-200423	23-Apr-20 15:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000952-12	PDI-160SC-A-07-08-200423	23-Apr-20 15:50	28-Apr-20 09:04	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22		Lab Sample: B0D0331-BLK1 Date Analyzed: 07-May-20 10:29 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0866			IS 13C-2,3,7,8-TCDD	88.0	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0700			13C-1,2,3,7,8-PeCDD	91.6	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0849			13C-1,2,3,4,7,8-HxCDD	96.9	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0908			13C-1,2,3,6,7,8-HxCDD	93.9	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.108			13C-1,2,3,7,8,9-HxCDD	93.8	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.120			13C-1,2,3,4,6,7,8-HpCDD	85.4	23 - 140		
OCDD	ND	0.0912			13C-OCDD	68.4	17 - 157		
2,3,7,8-TCDF	ND	0.0510			13C-2,3,7,8-TCDF	85.9	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0522			13C-1,2,3,7,8-PeCDF	94.8	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0499			13C-2,3,4,7,8-PeCDF	94.0	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0665			13C-1,2,3,4,7,8-HxCDF	90.2	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0619			13C-1,2,3,6,7,8-HxCDF	97.2	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0659			13C-2,3,4,6,7,8-HxCDF	94.8	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.114			13C-1,2,3,7,8,9-HxCDF	85.5	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0630			13C-1,2,3,4,6,7,8-HpCDF	92.2	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0902			13C-1,2,3,4,7,8,9-HpCDF	79.7	26 - 138		
OCDF	ND	0.143			13C-OCDF	61.2	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	92.5	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.0866							
Total PeCDD	ND	0.0700							
Total HxCDD	ND	0.108							
Total HpCDD	ND	0.120							
Total TCDF	ND	0.0510							
Total PeCDF	ND	0.0522							
Total HxCDF	ND	0.114							
Total HpCDF	ND	0.0902							

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: B0D0331	Lab Sample: B0D0331-BS1					
Sample Size: 10.0 g	Date Extracted: 30-Apr-2020 9:22	Date Analyzed: 07-May-20 08:55	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	16.5	20.0	82.7	67 - 158	IS 13C-2,3,7,8-TCDD	95.4	20 - 175
1,2,3,7,8-PeCDD	86.0	100	86.0	70 - 142	13C-1,2,3,7,8-PeCDD	94.0	21 - 227
1,2,3,4,7,8-HxCDD	94.0	100	94.0	70 - 164	13C-1,2,3,4,7,8-HxCDD	99.9	21 - 193
1,2,3,6,7,8-HxCDD	89.4	100	89.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	102	25 - 163
1,2,3,7,8,9-HxCDD	92.1	100	92.1	64 - 162	13C-1,2,3,7,8,9-HxCDD	98.1	21 - 193
1,2,3,4,6,7,8-HpCDD	91.4	100	91.4	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	91.5	26 - 166
OCDD	186	200	92.8	78 - 144	13C-OCDD	75.4	13 - 199
2,3,7,8-TCDF	18.1	20.0	90.5	75 - 158	13C-2,3,7,8-TCDF	95.4	22 - 152
1,2,3,7,8-PeCDF	90.6	100	90.6	80 - 134	13C-1,2,3,7,8-PeCDF	101	21 - 192
2,3,4,7,8-PeCDF	88.1	100	88.1	68 - 160	13C-2,3,4,7,8-PeCDF	98.4	13 - 328
1,2,3,4,7,8-HxCDF	98.3	100	98.3	72 - 134	13C-1,2,3,4,7,8-HxCDF	97.8	19 - 202
1,2,3,6,7,8-HxCDF	101	100	101	84 - 130	13C-1,2,3,6,7,8-HxCDF	101	21 - 159
2,3,4,6,7,8-HxCDF	100	100	100	70 - 156	13C-2,3,4,6,7,8-HxCDF	97.0	22 - 176
1,2,3,7,8,9-HxCDF	98.0	100	98.0	78 - 130	13C-1,2,3,7,8,9-HxCDF	95.8	17 - 205
1,2,3,4,6,7,8-HpCDF	98.3	100	98.3	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	97.3	21 - 158
1,2,3,4,7,8,9-HpCDF	101	100	101	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	88.6	20 - 186
OCDF	188	200	94.1	63 - 170	13C-OCDF	75.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	96.2	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-158SC-A-04-05-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-01 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.0 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 12:50	% Solids: 90.9	Date Analyzed : 07-May-20 12:02 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0954			IS 13C-2,3,7,8-TCDD	98.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.103			13C-1,2,3,7,8-PeCDD	97.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.106			13C-1,2,3,4,7,8-HxCDD	97.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.107			13C-1,2,3,6,7,8-HxCDD	99.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.125			13C-1,2,3,7,8,9-HxCDD	97.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.01			J	13C-1,2,3,4,6,7,8-HpCDD	86.2	23 - 140	
OCDD	8.43				13C-OCDD	67.5	17 - 157	
2,3,7,8-TCDF	ND	0.0639			13C-2,3,7,8-TCDF	96.2	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0774		13C-1,2,3,7,8-PeCDF	102	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0756			13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.132		13C-1,2,3,4,7,8-HxCDF	98.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0674			13C-1,2,3,6,7,8-HxCDF	107	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0769			13C-2,3,4,6,7,8-HxCDF	97.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.131			13C-1,2,3,7,8,9-HxCDF	93.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.104			13C-1,2,3,4,6,7,8-HpCDF	93.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.164			13C-1,2,3,4,7,8,9-HpCDF	79.0	26 - 138	
OCDF	0.664			J	13C-OCDF	60.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.0128

TOTALS								
Total TCDD	0.187							
Total PeCDD	ND		0.146					
Total HxCDD	1.18							
Total HpCDD	2.74							
Total TCDF	ND	0.0639						
Total PeCDF	ND		0.0774					
Total HxCDF	ND		0.132					
Total HpCDF	ND	0.164						

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-158SC-A-04-05-200423	QC Batch: B0D0331	Lab Sample: B0D0331-DUP1
Source LabNumber: 2000952-01	Date Extracted: 30-Apr-2020 9:22	Date Analyzed: 07-May-20 11:16 Column: ZB-5MS
Matrix: Solid		
Sample Size: 11.0 g		

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.107			IS 13C-2,3,7,8-TCDD	94.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.109			13C-1,2,3,7,8-PeCDD	90.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.107			13C-1,2,3,4,7,8-HxCDD	90.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.108			13C-1,2,3,6,7,8-HxCDD	92.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.138			13C-1,2,3,7,8,9-HxCDD	86.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.988			J	13C-1,2,3,4,6,7,8-HpCDD	79.0	23 - 140	
OCDD	8.40				13C-OCDD	58.6	17 - 157	
2,3,7,8-TCDF	ND	0.0976			13C-2,3,7,8-TCDF	93.9	24 - 169	
1,2,3,7,8-PeCDF	0.0863			J	13C-1,2,3,7,8-PeCDF	93.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0535			13C-2,3,4,7,8-PeCDF	93.5	21 - 178	
1,2,3,4,7,8-HxCDF	0.198			J	13C-1,2,3,4,7,8-HxCDF	89.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0882			13C-1,2,3,6,7,8-HxCDF	94.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0977			13C-2,3,4,6,7,8-HxCDF	89.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.172			13C-1,2,3,7,8,9-HxCDF	82.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.160			13C-1,2,3,4,6,7,8-HpCDF	83.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.242			13C-1,2,3,4,7,8,9-HpCDF	73.3	26 - 138	
OCDF	0.820			J	13C-OCDF	52.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.7	35 - 197	

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

TEQMinWHO2005Dioxin 0.0350

TOTALS		
Total TCDD	ND	0.107
Total PeCDD	ND	0.109
Total HxCDD	1.12	
Total HpCDD	2.68	
Total TCDF	ND	0.0976
Total PeCDF	0.0863	
Total HxCDF	0.198	
Total HpCDF	ND	0.242

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-158SC-A-04-05-200423					Duplicate Lab Sample: B0D0331-DUP1				
Source LabNumber: 2000952-01									
Matrix: Solid									
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	ND	ND	NA	25	IS 13C-2,3,7,8-TCDD	94.3	98.8	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	25	13C-1,2,3,7,8-PeCDD	90.5	97.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	90.6	97.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDD	92.2	99.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDD	86.9	97.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.988	1.01	1.77	25	13C-1,2,3,4,6,7,8-HpCDD	79.0	86.2	23 - 140	
OCDD	8.40	8.43	0.399	25	13C-OCDD	58.6	67.5	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	25	13C-2,3,7,8-TCDF	93.9	96.2	24 - 169	
1,2,3,7,8-PeCDF	0.0863	ND	#	25	13C-1,2,3,7,8-PeCDF	93.9	102	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	25	13C-2,3,4,7,8-PeCDF	93.5	101	21 - 178	
1,2,3,4,7,8-HxCDF	0.198	ND	#	25	13C-1,2,3,4,7,8-HxCDF	89.5	98.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDF	94.1	107	26 - 123	
2,3,4,6,7,8-HxCDF	ND	ND	NA	25	13C-2,3,4,6,7,8-HxCDF	89.7	97.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDF	82.2	93.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	ND	NA	25	13C-1,2,3,4,6,7,8-HpCDF	83.6	93.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25	13C-1,2,3,4,7,8,9-HpCDF	73.3	79.0	26 - 138	
OCDF	0.820	0.664	21.0	25	13C-OCDF	52.9	60.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.7	98.4	35 - 197	

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

Sample ID: PDI-158SC-A-05-06-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-02 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.1 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 12:50	% Solids: 90.4	Date Analyzed : 07-May-20 12:49 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.102			IS 13C-2,3,7,8-TCDD	93.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0886			13C-1,2,3,7,8-PeCDD	97.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.114			13C-1,2,3,4,7,8-HxCDD	97.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.115			13C-1,2,3,6,7,8-HxCDD	98.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.141			13C-1,2,3,7,8,9-HxCDD	95.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.21			J	13C-1,2,3,4,6,7,8-HpCDD	84.1	23 - 140	
OCDD	11.0				13C-OCDD	60.6	17 - 157	
2,3,7,8-TCDF	ND	0.0887			13C-2,3,7,8-TCDF	85.5	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0655		13C-1,2,3,7,8-PeCDF	99.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0581			13C-2,3,4,7,8-PeCDF	99.5	21 - 178	
1,2,3,4,7,8-HxCDF	0.0993			J	13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0517			13C-1,2,3,6,7,8-HxCDF	106	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0590			13C-2,3,4,6,7,8-HxCDF	97.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0971			13C-1,2,3,7,8,9-HxCDF	89.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.610			13C-1,2,3,4,6,7,8-HpCDF	91.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.886			13C-1,2,3,4,7,8,9-HpCDF	74.5	26 - 138	
OCDF	ND	0.221			13C-OCDF	47.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	84.3	35 - 197	

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

TEQMinWHO2005Dioxin 0.0353

TOTALS								
Total TCDD	ND	0.102						
Total PeCDD	ND	0.0886						
Total HxCDD	2.46							
Total HpCDD	5.71							
Total TCDF	ND	0.0887						
Total PeCDF	ND		0.0655					
Total HxCDF	0.0993							
Total HpCDF	ND	0.886						

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

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

Sample ID: PDI-158SC-A-06-07-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-03 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.4 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 12:50	% Solids: 81.0	Date Analyzed: 07-May-20 16:05 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0900			IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0899			13C-1,2,3,7,8-PeCDD	96.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.131			13C-1,2,3,4,7,8-HxCDD	96.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.133			13C-1,2,3,6,7,8-HxCDD	102	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.150			13C-1,2,3,7,8,9-HxCDD	96.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.833			J	13C-1,2,3,4,6,7,8-HpCDD	83.3	23 - 140	
OCDD	8.66				13C-OCDD	63.1	17 - 157	
2,3,7,8-TCDF	ND	0.0690			13C-2,3,7,8-TCDF	87.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0881			13C-1,2,3,7,8-PeCDF	95.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0855			13C-2,3,4,7,8-PeCDF	95.5	21 - 178	
1,2,3,4,7,8-HxCDF	0.141			J	13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0804			13C-1,2,3,6,7,8-HxCDF	108	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0912			13C-2,3,4,6,7,8-HxCDF	100	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.163			13C-1,2,3,7,8,9-HxCDF	84.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0864			13C-1,2,3,4,6,7,8-HpCDF	94.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.141			13C-1,2,3,4,7,8,9-HpCDF	72.1	26 - 138	
OCDF	ND		0.184		13C-OCDF	53.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.3	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0250

TOTALS								
Total TCDD	ND	0.0900						
Total PeCDD	ND	0.0899						
Total HxCDD	ND		0.564					
Total HpCDD	2.36							
Total TCDF	ND	0.0690						
Total PeCDF	ND	0.0881						
Total HxCDF	0.141							
Total HpCDF	ND	0.141						

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

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

Sample ID: PDI-158SC-A-07-08-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-04 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.6 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 12:50	% Solids: 86.4	Date Analyzed : 07-May-20 16:51 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0977			IS 13C-2,3,7,8-TCDD	97.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0929			13C-1,2,3,7,8-PeCDD	98.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.133			13C-1,2,3,4,7,8-HxCDD	96.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.131			13C-1,2,3,6,7,8-HxCDD	99.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.160			13C-1,2,3,7,8,9-HxCDD	97.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.88			J	13C-1,2,3,4,6,7,8-HpCDD	81.1	23 - 140	
OCDD	13.3				13C-OCDD	60.2	17 - 157	
2,3,7,8-TCDF	ND	0.0590			13C-2,3,7,8-TCDF	91.8	24 - 169	
1,2,3,7,8-PeCDF	0.117			J	13C-1,2,3,7,8-PeCDF	99.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0669			13C-2,3,4,7,8-PeCDF	99.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.117		13C-1,2,3,4,7,8-HxCDF	99.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0797			13C-1,2,3,6,7,8-HxCDF	108	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0907			13C-2,3,4,6,7,8-HxCDF	101	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.162			13C-1,2,3,7,8,9-HxCDF	91.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0914			13C-1,2,3,4,6,7,8-HpCDF	90.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.156			13C-1,2,3,4,7,8,9-HpCDF	70.5	26 - 138	
OCDF	0.355			J	13C-OCDF	48.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.0	35 - 197	

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

TEQMinWHO2005Dioxin 0.0264

TOTALS								
Total TCDD	ND	0.0977						
Total PeCDD	ND	0.0929						
Total HxCDD	1.16							
Total HpCDD	4.88							
Total TCDF	ND	0.0590						
Total PeCDF	0.117							
Total HxCDF	ND		0.117					
Total HpCDF	ND	0.156						

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-160SC-A-00-01-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-05 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.7 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 15:50	% Solids: 79.8	Date Analyzed : 07-May-20 17:38 Column: ZB-5MS 12-May-20 12:27 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.112			IS 13C-2,3,7,8-TCDD	90.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.142			13C-1,2,3,7,8-PeCDD	91.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.261			13C-1,2,3,4,7,8-HxCDD	91.0	32 - 141	
1,2,3,6,7,8-HxCDD	0.914			J	13C-1,2,3,6,7,8-HxCDD	94.4	28 - 130	
1,2,3,7,8,9-HxCDD	0.549			J	13C-1,2,3,7,8,9-HxCDD	89.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	26.2				13C-1,2,3,4,6,7,8-HpCDD	75.0	23 - 140	
OCDD	210				13C-OCDD	54.5	17 - 157	
2,3,7,8-TCDF	2.09				13C-2,3,7,8-TCDF	84.8	24 - 169	
1,2,3,7,8-PeCDF	1.58			J	13C-1,2,3,7,8-PeCDF	94.8	24 - 185	
2,3,4,7,8-PeCDF	0.769			J	13C-2,3,4,7,8-PeCDF	93.1	21 - 178	
1,2,3,4,7,8-HxCDF	2.62				13C-1,2,3,4,7,8-HxCDF	95.3	26 - 152	
1,2,3,6,7,8-HxCDF	0.710			J	13C-1,2,3,6,7,8-HxCDF	99.9	26 - 123	
2,3,4,6,7,8-HxCDF	0.287			J	13C-2,3,4,6,7,8-HxCDF	90.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.222			J	13C-1,2,3,7,8,9-HxCDF	83.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	3.66				13C-1,2,3,4,6,7,8-HpCDF	83.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.702			J	13C-1,2,3,4,7,8,9-HpCDF	65.0	26 - 138	
OCDF	9.28				13C-OCDF	46.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	86.8	35 - 197	

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

TEQMinWHO2005Dioxin 1.39

TOTALS			
Total TCDD	2.95		
Total PeCDD	12.3		
Total HxCDD	11.9		
Total HpCDD	62.2		
Total TCDF	7.72		
Total PeCDF	4.94	6.62	
Total HxCDF	8.13		
Total HpCDF	11.0		

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-160SC-A-01-02-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-06 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.3 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 15:50	% Solids: 88.5	Date Analyzed : 07-May-20 18:24 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0875			IS 13C-2,3,7,8-TCDD	96.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0743			13C-1,2,3,7,8-PeCDD	94.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.110			13C-1,2,3,4,7,8-HxCDD	95.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.106			13C-1,2,3,6,7,8-HxCDD	98.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.134			13C-1,2,3,7,8,9-HxCDD	93.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.37			J	13C-1,2,3,4,6,7,8-HpCDD	79.3	23 - 140	
OCDD	8.14				13C-OCDD	56.9	17 - 157	
2,3,7,8-TCDF	ND	0.0478			13C-2,3,7,8-TCDF	96.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0577			13C-1,2,3,7,8-PeCDF	97.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0553			13C-2,3,4,7,8-PeCDF	95.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.0861		13C-1,2,3,4,7,8-HxCDF	98.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0599			13C-1,2,3,6,7,8-HxCDF	105	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0649			13C-2,3,4,6,7,8-HxCDF	97.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.115			13C-1,2,3,7,8,9-HxCDF	88.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0994			13C-1,2,3,4,6,7,8-HpCDF	90.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.158			13C-1,2,3,4,7,8,9-HpCDF	69.7	26 - 138	
OCDF	ND	0.262			13C-OCDF	46.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0161

TOTALS								
Total TCDD	ND	0.0875						
Total PeCDD	ND	0.0743						
Total HxCDD	ND		0.280					
Total HpCDD	3.05							
Total TCDF	ND	0.0478						
Total PeCDF	ND	0.0577						
Total HxCDF	ND		0.0861					
Total HpCDF	ND	0.158						

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-160SC-A-02-03-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-07 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.4 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 15:50	% Solids: 80.5	Date Analyzed: 07-May-20 19:10 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0970			IS 13C-2,3,7,8-TCDD	90.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0782			13C-1,2,3,7,8-PeCDD	88.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0767			13C-1,2,3,4,7,8-HxCDD	91.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0753			13C-1,2,3,6,7,8-HxCDD	93.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0933			13C-1,2,3,7,8,9-HxCDD	92.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.369			J	13C-1,2,3,4,6,7,8-HpCDD	78.1	23 - 140	
OCDD	3.91			J	13C-OCDD	58.5	17 - 157	
2,3,7,8-TCDF	ND	0.0452			13C-2,3,7,8-TCDF	87.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0507			13C-1,2,3,7,8-PeCDF	90.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0462			13C-2,3,4,7,8-PeCDF	90.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0463			13C-1,2,3,4,7,8-HxCDF	95.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0453			13C-1,2,3,6,7,8-HxCDF	100	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0508			13C-2,3,4,6,7,8-HxCDF	95.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0915			13C-1,2,3,7,8,9-HxCDF	82.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0501			13C-1,2,3,4,6,7,8-HpCDF	87.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0876			13C-1,2,3,4,7,8,9-HpCDF	66.8	26 - 138	
OCDF	ND	0.155			13C-OCDF	47.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	99.8	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00486

TOTALS			
Total TCDD	ND	0.0970	
Total PeCDD	ND	0.0782	
Total HxCDD	0.325		
Total HpCDD	0.369		0.984
Total TCDF	ND	0.0452	
Total PeCDF	ND	0.0507	
Total HxCDF	ND	0.0915	
Total HpCDF	ND	0.0876	

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-160SC-A-03-04-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-08 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.1 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 15:50	% Solids: 90.8	Date Analyzed: 07-May-20 19:56 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.115			IS 13C-2,3,7,8-TCDD	75.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0967			13C-1,2,3,7,8-PeCDD	78.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0960			13C-1,2,3,4,7,8-HxCDD	80.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0921			13C-1,2,3,6,7,8-HxCDD	83.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.116			13C-1,2,3,7,8,9-HxCDD	82.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.189			13C-1,2,3,4,6,7,8-HpCDD	72.7	23 - 140	
OCDD	2.15			J	13C-OCDD	50.6	17 - 157	
2,3,7,8-TCDF	ND	0.0694			13C-2,3,7,8-TCDF	68.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0615			13C-1,2,3,7,8-PeCDF	77.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0586			13C-2,3,4,7,8-PeCDF	75.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0426			13C-1,2,3,4,7,8-HxCDF	84.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0376			13C-1,2,3,6,7,8-HxCDF	90.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0409			13C-2,3,4,6,7,8-HxCDF	88.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0748			13C-1,2,3,7,8,9-HxCDF	77.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0678			13C-1,2,3,4,6,7,8-HpCDF	78.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.114			13C-1,2,3,4,7,8,9-HpCDF	63.0	26 - 138	
OCDF	ND	0.198			13C-OCDF	40.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	74.9	35 - 197	

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

TEQMinWHO2005Dioxin 0.000645

TOTALS								
Total TCDD	ND	0.115						
Total PeCDD	ND	0.0967						
Total HxCDD	ND		0.202					
Total HpCDD	ND	0.189						
Total TCDF	ND	0.0694						
Total PeCDF	ND	0.0615						
Total HxCDF	ND	0.0748						
Total HpCDF	ND	0.114						

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-160SC-A-04-05-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-09 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.8 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 15:50	% Solids: 78.7	Date Analyzed : 07-May-20 20:42 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0702			IS 13C-2,3,7,8-TCDD	99.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0759			13C-1,2,3,7,8-PeCDD	95.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0758			13C-1,2,3,4,7,8-HxCDD	105	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0799			13C-1,2,3,6,7,8-HxCDD	102	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0965			13C-1,2,3,7,8,9-HxCDD	99.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.425			J	13C-1,2,3,4,6,7,8-HpCDD	82.7	23 - 140	
OCDD	3.69			J	13C-OCDD	65.0	17 - 157	
2,3,7,8-TCDF	ND	0.0388			13C-2,3,7,8-TCDF	94.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0370			13C-1,2,3,7,8-PeCDF	98.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0344			13C-2,3,4,7,8-PeCDF	97.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0293			13C-1,2,3,4,7,8-HxCDF	102	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0291			13C-1,2,3,6,7,8-HxCDF	108	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0311			13C-2,3,4,6,7,8-HxCDF	103	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0556			13C-1,2,3,7,8,9-HxCDF	90.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0425			13C-1,2,3,4,6,7,8-HpCDF	94.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0737			13C-1,2,3,4,7,8,9-HpCDF	75.9	26 - 138	
OCDF	ND	0.148			13C-OCDF	54.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	99.5	35 - 197	

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

TEQMinWHO2005Dioxin 0.00536

TOTALS			
Total TCDD	0.259		
Total PeCDD	0.0569		
Total HxCDD	0.724		
Total HpCDD	1.49		
Total TCDF	ND	0.0388	
Total PeCDF	ND	0.0370	
Total HxCDF	ND	0.0556	
Total HpCDF	ND	0.0737	

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-160SC-A-05-06-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-10 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 13.3 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 15:50	% Solids: 75.7	Date Analyzed: 07-May-20 21:28 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0756			IS 13C-2,3,7,8-TCDD	93.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0936			13C-1,2,3,7,8-PeCDD	90.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0751			13C-1,2,3,4,7,8-HxCDD	94.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0794			13C-1,2,3,6,7,8-HxCDD	93.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0941			13C-1,2,3,7,8,9-HxCDD	93.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.886			J	13C-1,2,3,4,6,7,8-HpCDD	81.0	23 - 140	
OCDD	7.44				13C-OCDD	62.5	17 - 157	
2,3,7,8-TCDF	ND	0.0479			13C-2,3,7,8-TCDF	87.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0385			13C-1,2,3,7,8-PeCDF	91.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0356			13C-2,3,4,7,8-PeCDF	91.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0433			13C-1,2,3,4,7,8-HxCDF	94.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0428			13C-1,2,3,6,7,8-HxCDF	101	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0461			13C-2,3,4,6,7,8-HxCDF	96.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0834			13C-1,2,3,7,8,9-HxCDF	83.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0418			13C-1,2,3,4,6,7,8-HpCDF	88.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0666			13C-1,2,3,4,7,8,9-HpCDF	68.5	26 - 138	
OCDF	ND	0.193			13C-OCDF	51.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0111

TOTALS				
Total TCDD	0.191			
Total PeCDD	ND	0.0936		
Total HxCDD	0.620		0.900	
Total HpCDD	2.20			
Total TCDF	ND	0.0479		
Total PeCDF	ND	0.0385		
Total HxCDF	ND	0.0834		
Total HpCDF	ND	0.0666		

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-160SC-A-06-07-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-11 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.3 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 15:50	% Solids: 88.9	Date Analyzed : 07-May-20 22:15 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0945			IS 13C-2,3,7,8-TCDD	93.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.111			13C-1,2,3,7,8-PeCDD	92.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.104			13C-1,2,3,4,7,8-HxCDD	92.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.106			13C-1,2,3,6,7,8-HxCDD	93.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.127			13C-1,2,3,7,8,9-HxCDD	90.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.888			J	13C-1,2,3,4,6,7,8-HpCDD	77.9	23 - 140	
OCDD	7.02				13C-OCDD	58.5	17 - 157	
2,3,7,8-TCDF	ND	0.0475			13C-2,3,7,8-TCDF	93.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0469			13C-1,2,3,7,8-PeCDF	93.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0431			13C-2,3,4,7,8-PeCDF	92.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0379			13C-1,2,3,4,7,8-HxCDF	94.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0356			13C-1,2,3,6,7,8-HxCDF	102	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0382			13C-2,3,4,6,7,8-HxCDF	96.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0693			13C-1,2,3,7,8,9-HxCDF	86.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0608			13C-1,2,3,4,6,7,8-HpCDF	88.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.105			13C-1,2,3,4,7,8,9-HpCDF	71.2	26 - 138	
OCDF	ND	0.138			13C-OCDF	52.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0110

TOTALS				
Total TCDD	ND		0.255	
Total PeCDD	ND	0.111		
Total HxCDD	1.08			
Total HpCDD	2.55			
Total TCDF	ND	0.0475		
Total PeCDF	ND	0.0469		
Total HxCDF	ND	0.0693		
Total HpCDF	ND	0.105		

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-160SC-A-07-08-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000952-12 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.4 g	QC Batch: B0D0331 Date Extracted: 30-Apr-2020 9:22
Date Collected: 23-Apr-2020 15:50	% Solids: 88.1	Date Analyzed : 07-May-20 23:01 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0804			IS 13C-2,3,7,8-TCDD	97.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0957			13C-1,2,3,7,8-PeCDD	96.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0834			13C-1,2,3,4,7,8-HxCDD	93.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0860			13C-1,2,3,6,7,8-HxCDD	96.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.101			13C-1,2,3,7,8,9-HxCDD	93.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.427		13C-1,2,3,4,6,7,8-HpCDD	81.5	23 - 140	
OCDD	3.10			J	13C-OCDD	61.0	17 - 157	
2,3,7,8-TCDF	ND	0.0483			13C-2,3,7,8-TCDF	92.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0374			13C-1,2,3,7,8-PeCDF	99.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0348			13C-2,3,4,7,8-PeCDF	95.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0418			13C-1,2,3,4,7,8-HxCDF	96.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0378			13C-1,2,3,6,7,8-HxCDF	107	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0449			13C-2,3,4,6,7,8-HxCDF	97.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0772			13C-1,2,3,7,8,9-HxCDF	87.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0520			13C-1,2,3,4,6,7,8-HpCDF	88.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0856			13C-1,2,3,4,7,8,9-HpCDF	73.3	26 - 138	
OCDF	ND	0.199			13C-OCDF	50.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.8	35 - 197	

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

TEQMinWHO2005Dioxin 0.000930

TOTALS								
Total TCDD	ND	0.0804						
Total PeCDD	ND	0.0957						
Total HxCDD	0.478		0.576					
Total HpCDD	0.872		1.30					
Total TCDF	ND	0.0483						
Total PeCDF	ND	0.0374						
Total HxCDF	ND	0.0772						
Total HpCDF	ND	0.0856						

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

2000952 1.5°C

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

Project: Gasco PDI
Client: NW Natural

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
014	PDI-158SC-A-04-05-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
015	PDI-158SC-A-05-06-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
016	PDI-158SC-A-06-07-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
017	PDI-158SC-A-07-08-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
A 018	PDI-160SC-A-00-01-200423	N	SE	04/23/2020	15:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								PCB Congeners	E1668A	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
019	PDI-160SC-A-01-02-200423	N	SE	04/23/2020	15:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
020	PDI-160SC-A-02-03-200423	N	SE	04/23/2020	15:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C

Comment: A WO 2000952

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: Lucas Henry	Print Name: William E. Wright	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor OEA	Company: VAL	Company:	Company:	Company:	Company:
Date/Time:	Date/Time: 4-28-20 09:04	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2000952

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

Project: Gasco PDI
Client: NW Natural

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
020	PDI-160SC-A-02-03-200423	N	SE	04/23/2020	15:50	1	<input type="checkbox"/>	Total solids (VISTA)	SM2540G	7	4°C
021	PDI-160SC-A-03-04-200423	N	SE	04/23/2020	15:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
022	PDI-160SC-A-04-05-200423	N	SE	04/23/2020	15:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
023	PDI-160SC-A-05-06-200423	N	SE	04/23/2020	15:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
024	PDI-160SC-A-06-07-200423	N	SE	04/23/2020	15:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
025	PDI-160SC-A-07-08-200423	N	SE	04/23/2020	15:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature	Signature	Signature	Signature
Print Name Lucas Henry	Print Name William Wright	Print Name	Print Name	Print Name	Print Name
Company Anchor QEA	Company VAI	Company	Company	Company	Company
Date/Time 4/24/2020 15:00	Date/Time 4-28-20 09:04	Date/Time	Date/Time	Date/Time	Date/Time

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

JP 04/29/20

Page # 1 of 2

Vista Work Order #: 2000952

TAT 7 days

Samples Arrival:	Date/Time <u>4/28/20 09:04</u>		Initials: <u>WLV</u>		Location: <u>W-2</u>		
					Shelf/Rack: <u>NA</u>		
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
Temp °C:	<u>1.5</u> (uncorrected)	Probe used: <u>Y / 1</u>			Thermometer ID: <u>IR-3</u>		
Temp °C:	<u>1.5</u> (corrected)						

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>2 of 2</u> Trk # <u>7703 3185 9864</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time <u>04/28/20 13:14</u>		Initials: <u>JP</u>
	Location: <u>W-2</u>		Shelf/Rack: <u>G-4</u>
COC Anomaly/Sample Acceptance Form completed?			
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

Sample Log-In Checklist

Page # 22 of 22

Vista Work Order #: 2000952 TAT 2 days

Samples Arrival:	Date/Time <u>4-28-20 09:01</u>		Initials: <u>WRW</u>		Location: <u>WR-2</u>		
	Shelf/Rack: <u>NA</u>						
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
Temp °C: <u>3.4</u>	(uncorrected)		Probe used: Y / <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR-3</u>	
Temp °C: <u>3.4</u>	(corrected)						

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>10/2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trk # <u>7703 3185 9577</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time <u>04/28/20 13:14</u>		Initials: <u>WR</u>
	Location: <u>WR-2</u>		Shelf/Rack: <u>G-4</u>
COC Anomaly/Sample Acceptance Form completed?			
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: * Chain of custody in color copy 2 of 2.

CoC/Label Reconciliation Report WO# 2000952

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000952-01	A PDI-158SC-A-04-05-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 12:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	DUP
2000952-02	A PDI-158SC-A-05-06-200423	<input checked="" type="checkbox"/> C1 * A	23-Apr-20 12:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000952-03	A PDI-158SC-A-06-07-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 12:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000952-04	A PDI-158SC-A-07-08-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 12:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000952-05	A PDI-160SC-A-00-01-200423	<input checked="" type="checkbox"/> C2	23-Apr-20 15:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000952-06	A PDI-160SC-A-01-02-200423	<input checked="" type="checkbox"/> C2	23-Apr-20 15:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000952-07	A PDI-160SC-A-02-03-200423	<input checked="" type="checkbox"/> C2	23-Apr-20 15:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000952-08	A PDI-160SC-A-03-04-200423	<input checked="" type="checkbox"/> C2	23-Apr-20 15:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000952-09	A PDI-160SC-A-04-05-200423	<input checked="" type="checkbox"/> C2	23-Apr-20 15:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000952-10	A PDI-160SC-A-05-06-200423	<input checked="" type="checkbox"/> C2	23-Apr-20 15:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000952-11	A PDI-160SC-A-06-07-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 15:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000952-12	A PDI-160SC-A-07-08-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 15:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	

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

	Yes	No	NA
Sample Container Intact? <i>A</i>	✓		
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: *1 Sample broke during labeling.

A: sample broke during labeling and contents moved to a new container.

*C1: cooler 1 of 2
C2: cooler 2 of 2*

Verified by/Date: *HDC OA/28/2020*

EXTRACTION INFORMATION

Process Sheet
 Workorder: **2000952**

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

Workorder Due: 05-May-20 00:00

TAT: 7

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

Prep Batch: BOD0331

Prep Data Entered: AO 05/03/20
Date and Initials

Initial Sequence: SoE0017

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000952-01	<input checked="" type="checkbox"/>	PDI-158SC-A-04-05-200423	28-Apr-20 09:04	WR-2 G-4	DUP
2000952-02	<input checked="" type="checkbox"/>	PDI-158SC-A-05-06-200423	28-Apr-20 09:04	WR-2 G-4	
2000952-03	<input checked="" type="checkbox"/>	PDI-158SC-A-06-07-200423	28-Apr-20 09:04	WR-2 G-4	
2000952-04	<input checked="" type="checkbox"/>	PDI-158SC-A-07-08-200423	28-Apr-20 09:04	WR-2 G-4	
2000952-05	<input checked="" type="checkbox"/>	PDI-160SC-A-00-01-200423	28-Apr-20 09:04	WR-2 G-4	
2000952-06	<input checked="" type="checkbox"/>	PDI-160SC-A-01-02-200423	28-Apr-20 09:04	WR-2 G-4	
2000952-07	<input checked="" type="checkbox"/>	PDI-160SC-A-02-03-200423	28-Apr-20 09:04	WR-2 G-4	
2000952-08	<input checked="" type="checkbox"/>	PDI-160SC-A-03-04-200423	28-Apr-20 09:04	WR-2 G-4	
2000952-09	<input checked="" type="checkbox"/>	PDI-160SC-A-04-05-200423	28-Apr-20 09:04	WR-2 G-4	
2000952-10	<input checked="" type="checkbox"/>	PDI-160SC-A-05-06-200423	28-Apr-20 09:04	WR-2 G-4	
2000952-11	<input checked="" type="checkbox"/>	PDI-160SC-A-06-07-200423	28-Apr-20 09:04	WR-2 G-4	
2000952-12	<input checked="" type="checkbox"/>	PDI-160SC-A-07-08-200423	28-Apr-20 09:04	WR-2 G-4	

WO Comments: **Pest - 1g extraction (dry weight). DDX, Aldrin, 5-Chlordane, Dieldrin, Lindane**
Dioxin - 10g (dry weight)
PCB - 5g extraction (dry weight)
One dup required per batch of 20 samples

DF 04/30/20
RR 04/30/20

Pre-Prep Check Out: _____
 Pre-Prep Check In: _____

Prep Check Out: RR 04/30/20
 Prep Check In: RR 04/30/20

Prep Reconciled Initials/Date: RR 04/30/20
 Spike Reconciled Initials/Date: K.A. 04/30/2020
 VialBoxID: Ranch

PREPARATION BENCH SHEET

Matrix: Solid

B0D0331

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 30-Apr-20 09:22

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisol CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0D0331-BLK1	NA	(10.00) DF	RR 04/30/20	RR 04/30/20	NA	DF 05/02/20	DF 05/02/20	DF 05/02/20	OU 05/03/20
<input type="checkbox"/>	B0D0331-BS1	NA	(10.00)							
<input type="checkbox"/>	B0D0331-DUP1	11.00	11.02							
<input type="checkbox"/>	2000952-01	11.06	11.00							
<input type="checkbox"/>	2000952-02	11.06	11.13							
<input type="checkbox"/>	2000952-03	12.35	12.38							
<input type="checkbox"/>	2000952-04	11.57	11.57							
<input type="checkbox"/>	2000952-05	12.53	12.66							
<input type="checkbox"/>	2000952-06	11.30	11.31							
<input type="checkbox"/>	2000952-07	12.43	12.43							
<input type="checkbox"/>	2000952-08	11.02	11.13							
<input type="checkbox"/>	2000952-09	12.70	12.83							
<input type="checkbox"/>	2000952-10	13.21	13.33							
<input type="checkbox"/>	2000952-11	11.24	11.27							
<input type="checkbox"/>	2000952-12	11.35	11.38							

IS Name <u>V4</u>	NS Name <u>V2</u>	CRS Name <u>V2</u>	RS Name <u>V2</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: RR 04/30/20
PCDD/F <u>19L230, 10mL</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time 04/30/20 1448	SOLV: <u>Toluene</u>	Chemist/Date: RR 04/30/20
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time 05/01/20 0650	Other <u>NA</u>	Check In: <u>RR 04/30/20</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>114</u> <u>20mL</u>		Balance ID: <u>HRMS-8</u>

Comments:
 1 = Sample approached dryness on rotovap
 2 = Sample bumped on rotovap; lost < 5%
 3 = Sample poured through Na2SO4 to remove water
 4 = Precipitate present at Final Volume

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

* RR 04/30/20

Batch: B0D0331

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000952-01	11	90.93137	10.0025	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-02	11.13	90.41451	10.0631	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-03	12.38	80.97345	10.0245	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-04	11.57	86.44068	10.0012	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-05	12.66	79.79002	10.1014	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-06	11.31	88.5	10.0093	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-07	12.43	80.48245	10.0040	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-08	11.13	90.77254	10.1030	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-09	12.83	78.70968	10.0985	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-10	13.33	75.67567	10.0876	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-11	11.27	88.94473	10.0241	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
2000952-12	11.38	88.11189	10.0271	20	30-Apr-20 09:22	RR			Sediment	1613 Full List
B0D0331-BLK1	10			20	30-Apr-20 09:22	RR				QC
B0D0331-BS1	10			20	30-Apr-20 09:22	RR	18F1913	10		QC
B0D0331-DUP1	11.02	90.93137	10.02037	20	30-Apr-20 09:22	RR				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 05/03/20

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0D0309

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

Inst HRMS-08 ✓ Date/Time IN: 04/29/20/0903 ✓ Date/Time OUT: 04/30/20/0650 ✓

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	EM 04/29/20 ✓
			Pan Tare Wt. (gms)	EM 04/29/20 ✓										
	2000952-01	A ✓	Sample	1.2800 ✓	5.3600 ✓	4.9900 ✓	3.7100	90.93	SAND ✓	NA	NA	NA	NA	X ✓
	2000952-02	A	Sample	1.2800 ✓	5.1400 ✓	4.7700 ✓	3.4900	90.41	SAND	NA	NA	NA	NA	X
	2000952-03	A	Sample	1.2800 ✓	5.8000 ✓	4.9400 ✓	3.6600	80.97	SAND	NA	NA	NA	NA	X
	2000952-04	A	Sample	1.2800 ✓	5.4100 ✓	4.8500 ✓	3.5700	86.44	SAND	NA	NA	NA	NA	X
	2000952-05	A	Sample	1.2900 ✓	5.1000 ✓	4.3300 ✓	3.0400	79.79	SAND	NA	NA	NA	NA	X
	2000952-06	A	Sample	1.3000 ✓	5.3000 ✓	4.8400 ✓	3.5400	88.50	SAND	NA	NA	NA	NA	X
	2000952-07	A	Sample	1.2800 ✓	5.8400 ✓	4.9500 ✓	3.6700	80.48	SAND	NA	NA	NA	NA	X
	2000952-08	A	Sample	1.2800 ✓	5.9400 ✓	5.5100 ✓	4.2300	90.77	SAND	NA	NA	NA	NA	X
	2000952-09	A	Sample	1.2800 ✓	5.9300 ✓	4.9400 ✓	3.6600	78.71	SAND	NA	NA	NA	NA	X
	2000952-10	A	Sample	1.3100 ✓	5.7500 ✓	4.6700 ✓	3.3600	75.68	SAND	NA	NA	NA	NA	X
	2000952-11	A	Sample	1.2700 ✓	5.2500 ✓	4.8100 ✓	3.5400	88.94	SAND	NA	NA	NA	NA	X
	2000952-12	A	Sample	1.3000 ✓	5.5900 ✓	5.0800 ✓	3.7800	88.11	SAND	NA	NA	NA	NA	X

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0D0309

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

Inst HRMS-08 Date/Time IN: 04/29/20 Date/Time OUT: 04/30/20
0903 0650

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				Sample Homogenized*										
			Pan Tare Wt. (gms)	Initial and Date:					Final and Date:	Visual Inspection	Cl-	pH Before		pH After	Acid Added								
	2000952-01	Sample	1.28	04/29/20	5.30	4.99	N/A	sand					X										
	2000952-02	Sample	1.28	04/30/20	5.14	4.77								X									
	2000952-03	Sample	1.28	04/30/20	5.80	4.94									X								
	2000952-04	Sample	1.28	04/30/20	5.41	4.85										X							
	2000952-05	Sample	1.29	04/30/20	5.10	4.33											X						
	2000952-06	Sample	1.30	04/30/20	5.30	4.84												X					
	2000952-07	Sample	1.28	04/30/20	5.84	4.95													X				
	2000952-08	Sample	1.28	04/30/20	5.94	5.51														X			
	2000952-09	Sample	1.28	04/30/20	5.93	4.94															X		
	2000952-10	Sample	1.31	04/30/20	5.75	4.67																X	
	2000952-11	Sample	1.27	04/30/20	5.25	4.81																	X
	2000952-12	Sample	1.30	04/30/20	5.59	5.08																	

*Sample homogenized in sample container unless otherwise noted.

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-4.qld

Last Altered: Friday, May 08, 2020 9:30:27 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 9:32:16 AM Pacific Daylight Time

GRB 05/08/2020

CT 05/14/2020

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

Name: 200507R1_4, Date: 07-May-2020, Time: 10:29:32, ID: B0D0331-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.000	26.006		1.001				0.0866	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.000	31.101		1.001				0.0700	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.462		1.000				0.0849	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.558		1.000				0.0908	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.845		1.000				0.108	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.329		1.000				0.120	
7	7 OCDD			NO	0.933	10.000	41.321		1.000				0.0912	
8	8 2,3,7,8-TCDF			NO	0.787	10.000	25.042		1.001				0.0510	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.000	29.788		1.001				0.0522	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.000	30.789		1.001				0.0499	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.000	33.600		1.000				0.0665	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.000	33.727		1.000				0.0619	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.316		1.001				0.0659	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.000	35.176		1.000				0.114	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	36.939		1.001				0.0630	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.915		1.000				0.0902	
17	17 OCDF			NO	0.802	10.000	41.503		1.000				0.143	
18	18 13C-2,3,7,8-TCDD	9.69e5	0.77	NO	1.16	10.000	25.969	25.98	1.026	1.027	176.07	88.0	0.270	
19	19 13C-1,2,3,7,8-PeCDD	7.37e5	0.64	NO	0.847	10.000	31.049	31.08	1.227	1.228	183.27	91.6	0.396	
20	20 13C-1,2,3,4,7,8-HxCDD	5.02e5	1.27	NO	0.750	10.000	34.462	34.45	1.014	1.014	193.77	96.9	0.602	
21	21 13C-1,2,3,6,7,8-HxCDD	6.26e5	1.26	NO	0.963	10.000	34.574	34.56	1.017	1.017	187.85	93.9	0.469	
22	22 13C-1,2,3,7,8,9-HxCDD	5.43e5	1.21	NO	0.838	10.000	34.843	34.83	1.025	1.025	187.51	93.8	0.539	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.79e5	1.03	NO	0.641	10.000	38.329	38.32	1.128	1.128	170.75	85.4	0.607	
24	24 13C-OCDD	5.55e5	0.89	NO	0.586	10.000	41.320	41.32	1.216	1.216	273.68	68.4	0.459	
25	25 13C-2,3,7,8-TCDF	1.21e6	0.80	NO	1.03	10.000	25.030	25.02	0.989	0.989	171.72	85.9	0.523	
26	26 13C-1,2,3,7,8-PeCDF	1.09e6	1.59	NO	0.845	10.000	29.741	29.77	1.176	1.177	189.55	94.8	0.894	
27	27 13C-2,3,4,7,8-PeCDF	1.04e6	1.58	NO	0.814	10.000	30.731	30.76	1.215	1.216	187.97	94.0	0.928	
28	28 13C-1,2,3,4,7,8-HxCDF	6.27e5	0.50	NO	1.00	10.000	33.602	33.60	0.989	0.989	180.43	90.2	0.724	
29	29 13C-1,2,3,6,7,8-HxCDF	7.64e5	0.50	NO	1.14	10.000	33.725	33.72	0.992	0.992	194.33	97.2	0.640	
30	30 13C-2,3,4,6,7,8-HxCDF	6.71e5	0.50	NO	1.02	10.000	34.292	34.28	1.009	1.009	189.69	94.8	0.712	
31	31 13C-1,2,3,7,8,9-HxCDF	5.00e5	0.50	NO	0.845	10.000	35.183	35.18	1.035	1.035	171.04	85.5	0.862	

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-4.qld

Last Altered: Friday, May 08, 2020 9:30:27 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 9:32:16 AM Pacific Daylight Time

Name: 200507R1_4, Date: 07-May-2020, Time: 10:29:32, ID: B0D0331-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	4.92e5	0.43	NO	0.771	10.000	36.912	36.90	1.086	1.086	184.49	92.2	0.839	
33	13C-1,2,3,4,7,8,9-HpCDF	2.66e5	0.42	NO	0.482	10.000	38.921	38.92	1.145	1.145	159.38	79.7	1.34	
34	13C-OCDF	5.66e5	0.85	NO	0.669	10.000	41.490	41.50	1.221	1.221	244.82	61.2	0.477	
35	37Cl-2,3,7,8-TCDD	3.86e5			1.10	10.000	25.999	25.99	1.028	1.027	73.993	92.5	0.179	
36	13C-1,2,3,4-TCDD	9.49e5	0.80	NO	1.00	10.000	25.350	25.30	1.000	1.000	200.00	100	0.313	
37	13C-1,2,3,4-TCDF	1.36e6	0.79	NO	1.00	10.000	23.560	23.49	1.000	1.000	200.00	100	0.541	
38	13C-1,2,3,4,6,9-HxCDF	6.92e5	0.51	NO	1.00	10.000	34.000	33.98	1.000	1.000	200.00	100	0.728	
39	Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0546	
40	Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0327	
41	Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0547	
42	Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0624	
43	Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0209	
44	1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.0140	
45	Total Penta-Furans				0.910	10.000	29.275		0.000				0.0255	
46	Total Hexa-Furans				0.922	10.000	33.555		0.000				0.0358	
47	Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0385	

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-4.qld

Last Altered: Friday, May 08, 2020 9:30:27 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 9:32:16 AM Pacific Daylight Time

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

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

Name: 200507R1_4, Date: 07-May-2020, Time: 10:29:32, ID: B0D0331-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-4.qld

Last Altered: Friday, May 08, 2020 9:30:27 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 9:32:16 AM Pacific Daylight Time

Name: 200507R1_4, Date: 07-May-2020, Time: 10:29:32, ID: B0D0331-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: Untitled

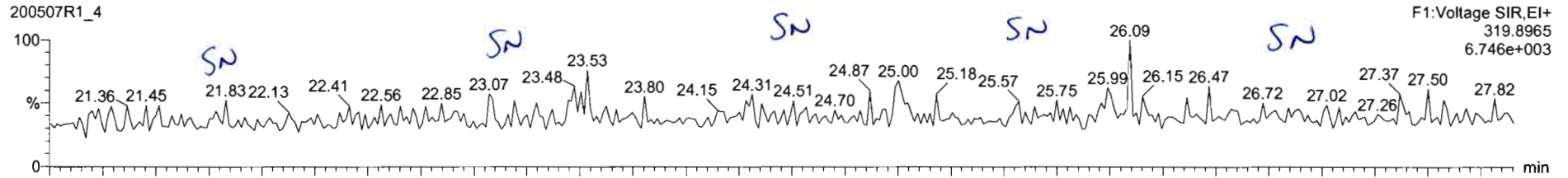
Last Altered: Thursday, May 07, 2020 1:30:35 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

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

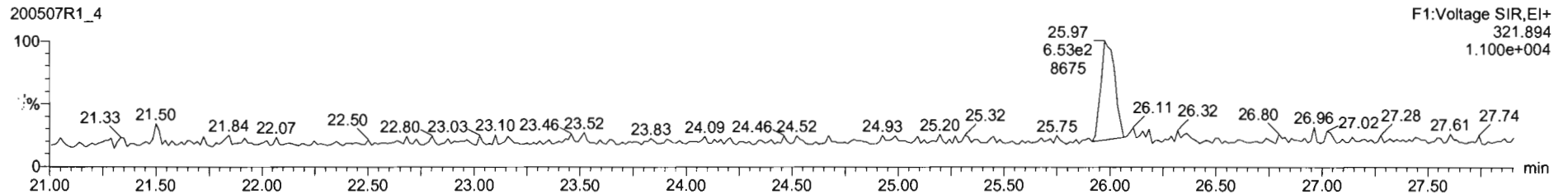
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2,3,7,8-TCDD

200507R1_4

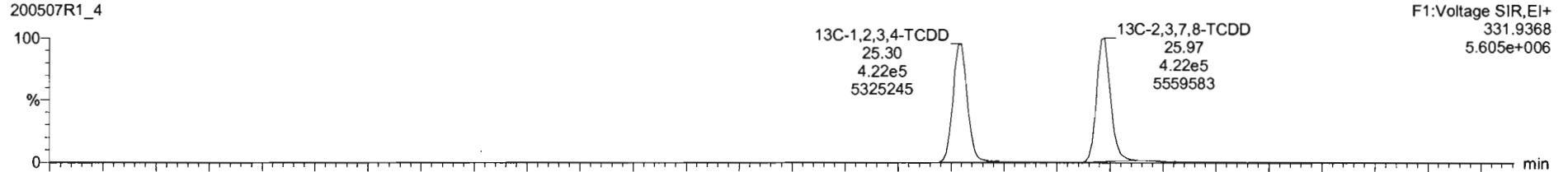


200507R1_4

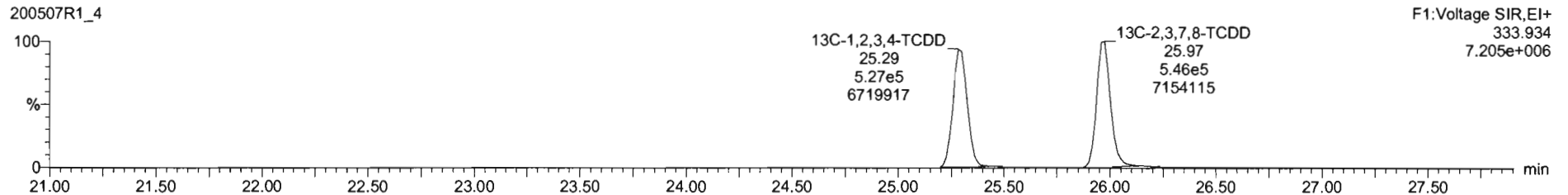


13C-2,3,7,8-TCDD

200507R1_4



200507R1_4

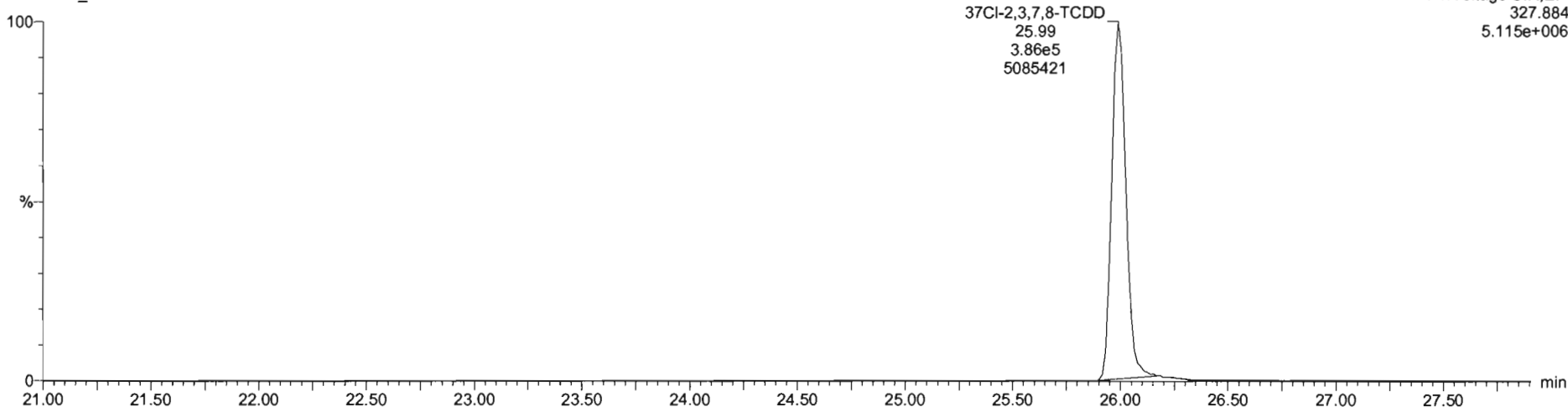


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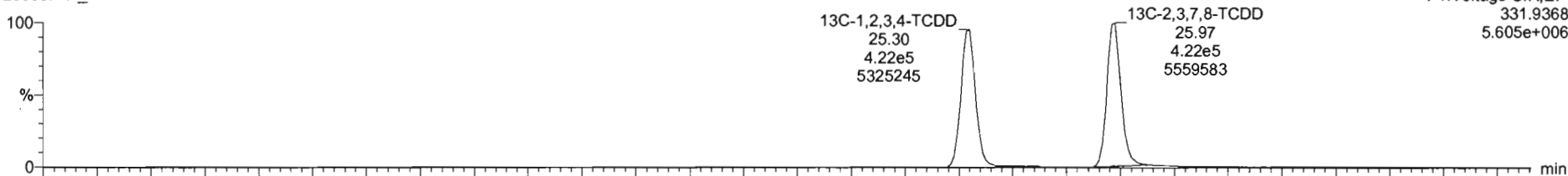
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

Name: 200507R1_4, Date: 07-May-2020, Time: 10:29:32, ID: B0D0331-BLK1 Method Blank 10, Description: Method Blank

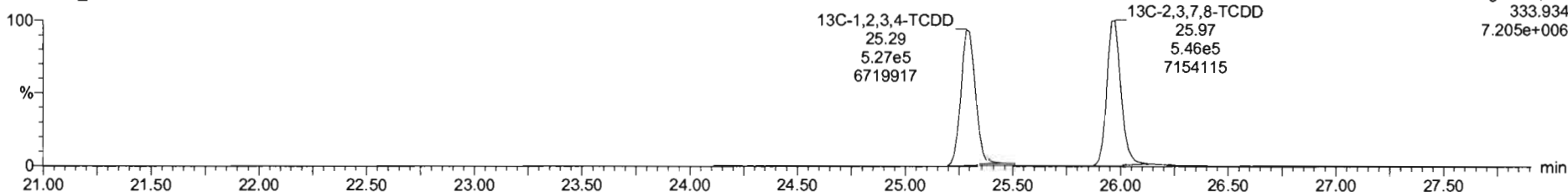
37Cl-2,3,7,8-TCDD
200507R1_4



13C-1,2,3,4-TCDD
200507R1_4



200507R1_4



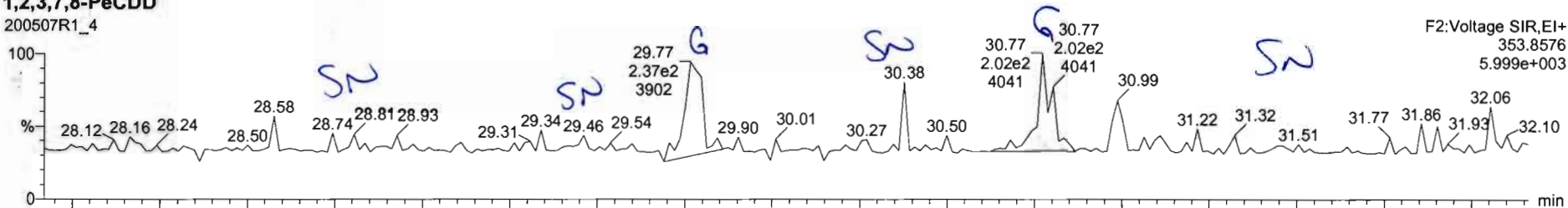
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

Name: 200507R1_4, Date: 07-May-2020, Time: 10:29:32, ID: B0D0331-BLK1 Method Blank 10, Description: Method Blank

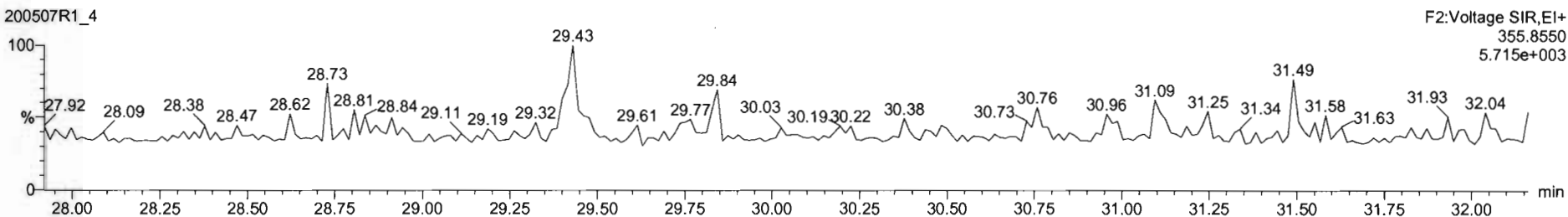
1,2,3,7,8-PeCDD

200507R1_4



F2:Voltage SIR,EI+
353.8576
5.999e+003

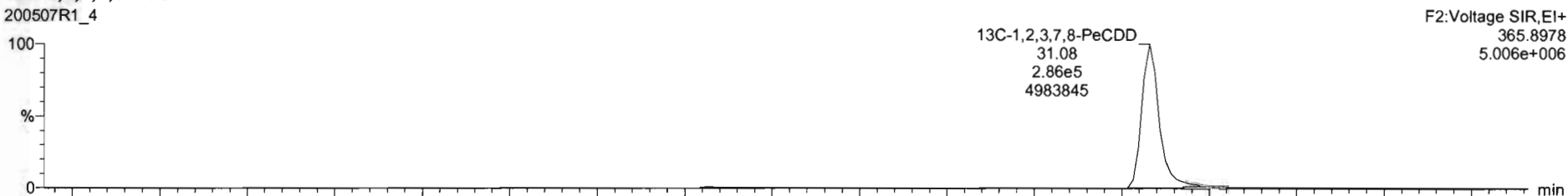
200507R1_4



F2:Voltage SIR,EI+
355.8550
5.715e+003

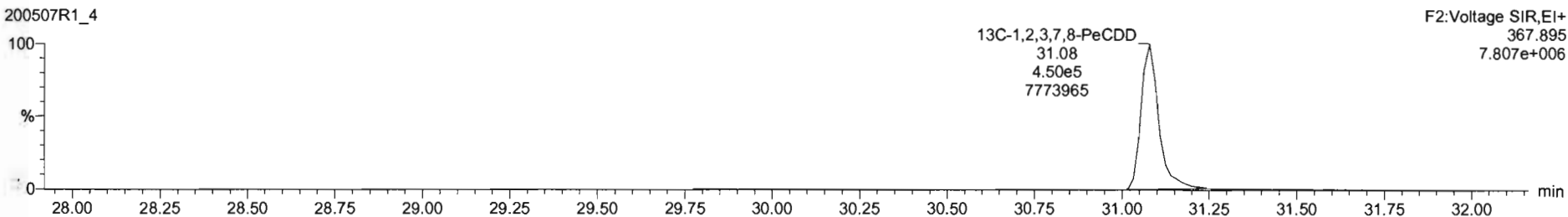
13C-1,2,3,7,8-PeCDD

200507R1_4



F2:Voltage SIR,EI+
365.8978
5.006e+006

200507R1_4



F2:Voltage SIR,EI+
367.895
7.807e+006

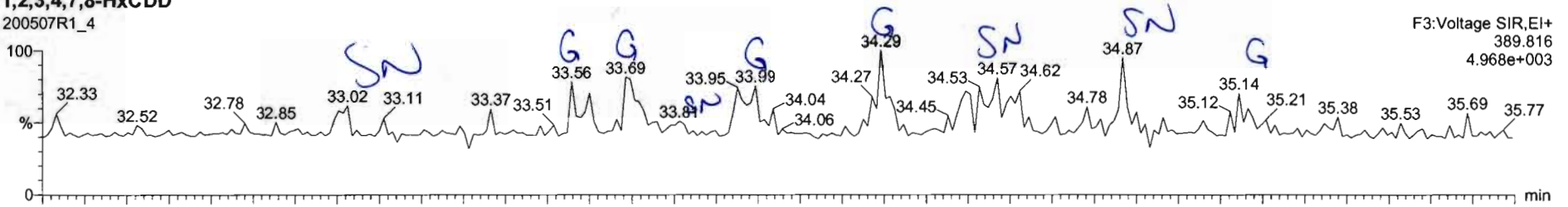
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

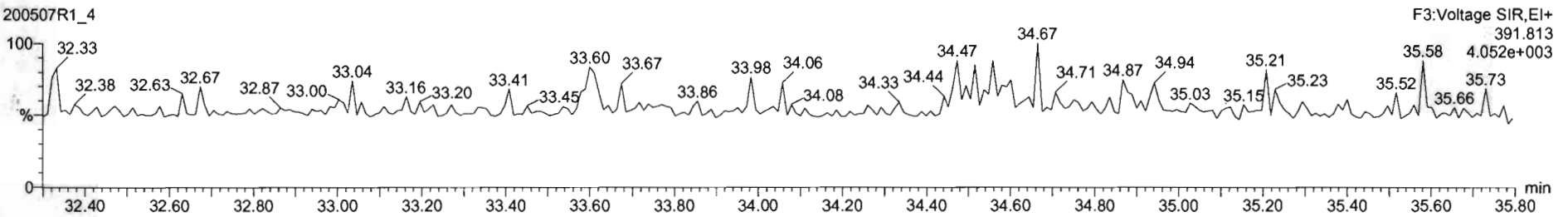
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1,2,3,4,7,8-HxCDD

200507R1_4

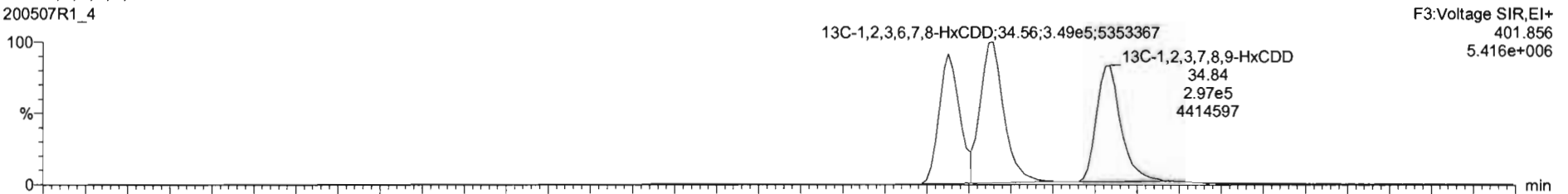


200507R1_4

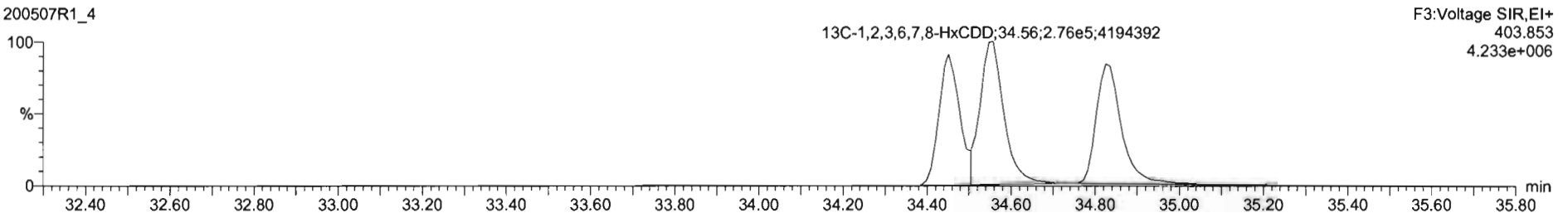


13C-1,2,3,4,7,8-HxCDD

200507R1_4



200507R1_4



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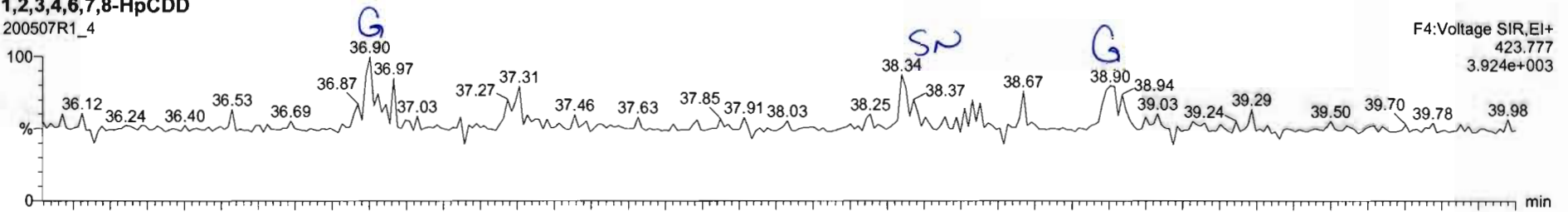
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

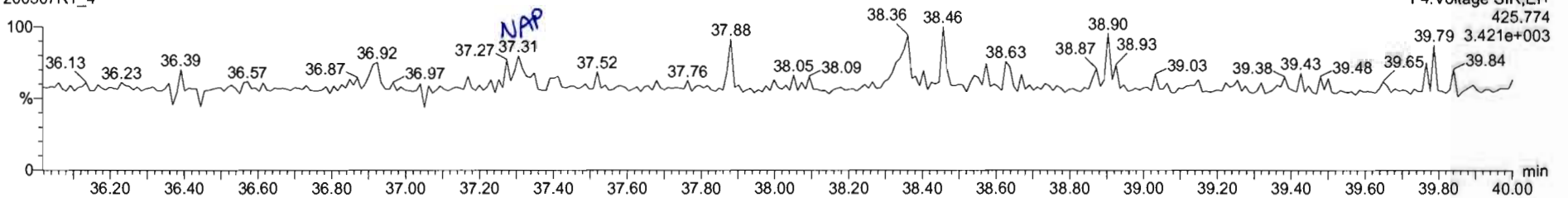
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1,2,3,4,6,7,8-HpCDD

200507R1_4

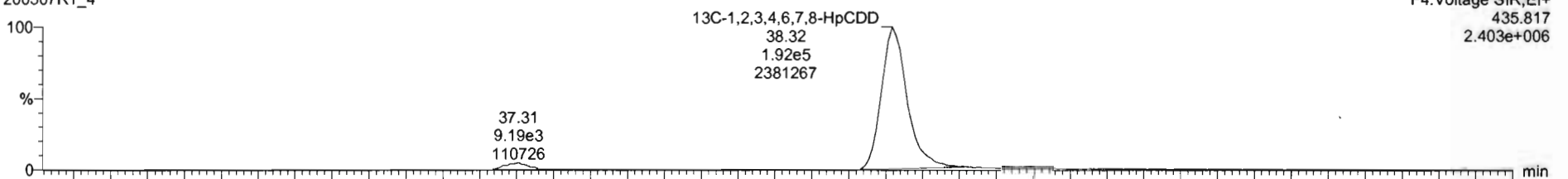


200507R1_4

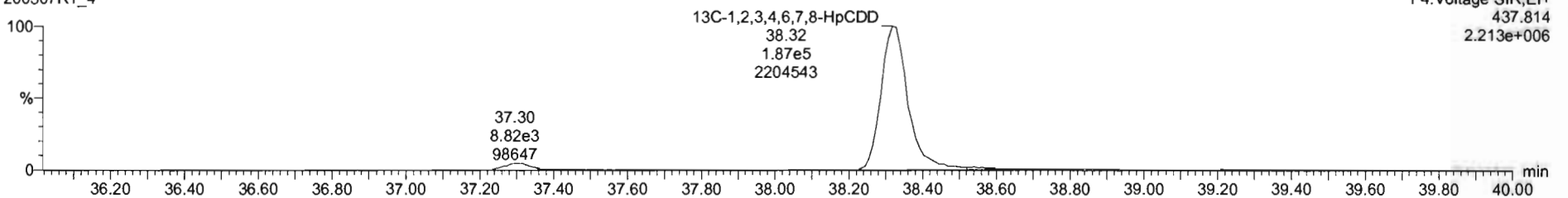


13C-1,2,3,4,6,7,8-HpCDD

200507R1_4



200507R1_4



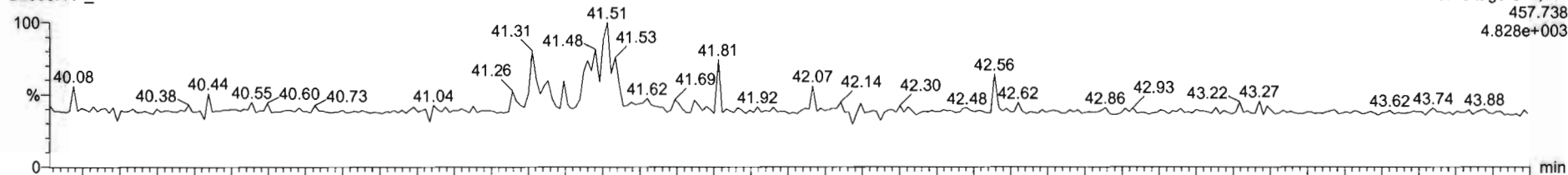
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

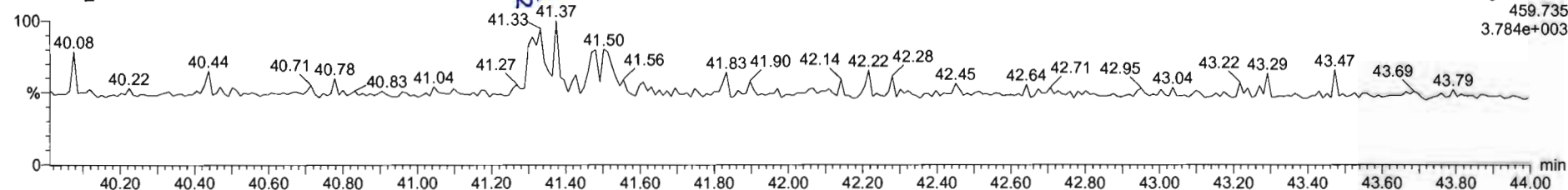
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OCDD

200507R1_4

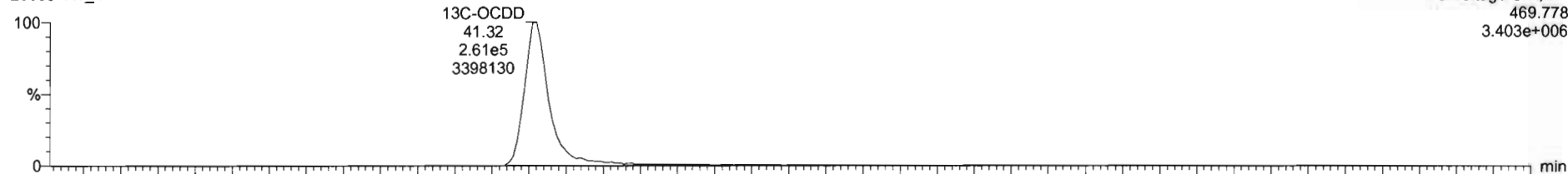


200507R1_4

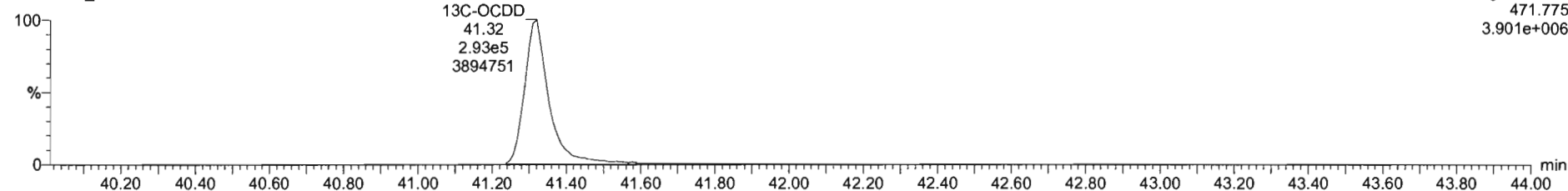


13C-OCDD

200507R1_4



200507R1_4

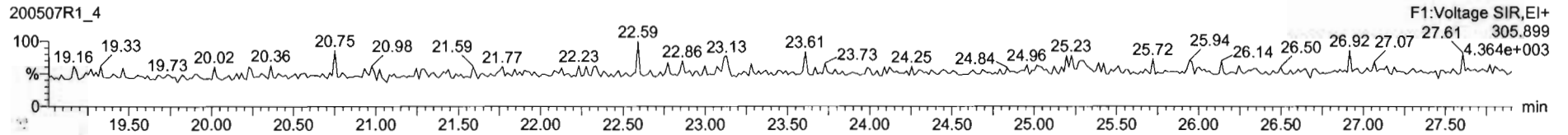
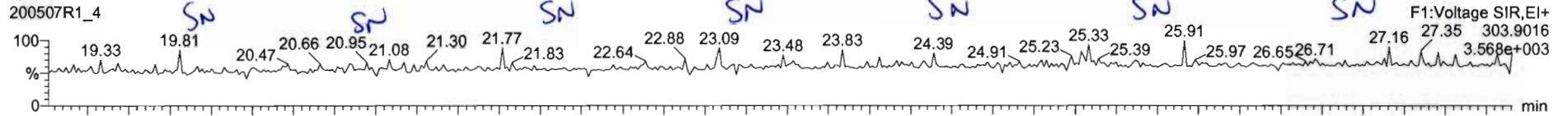


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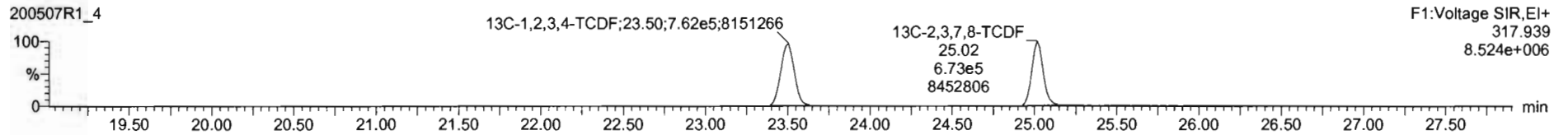
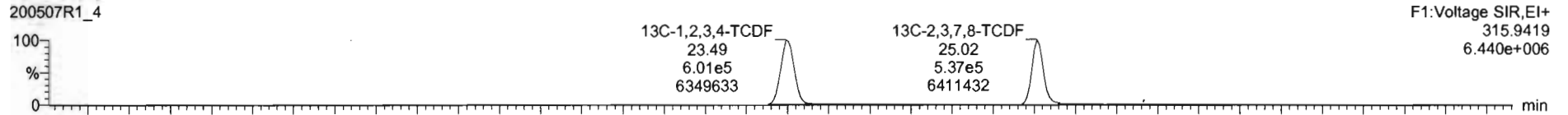
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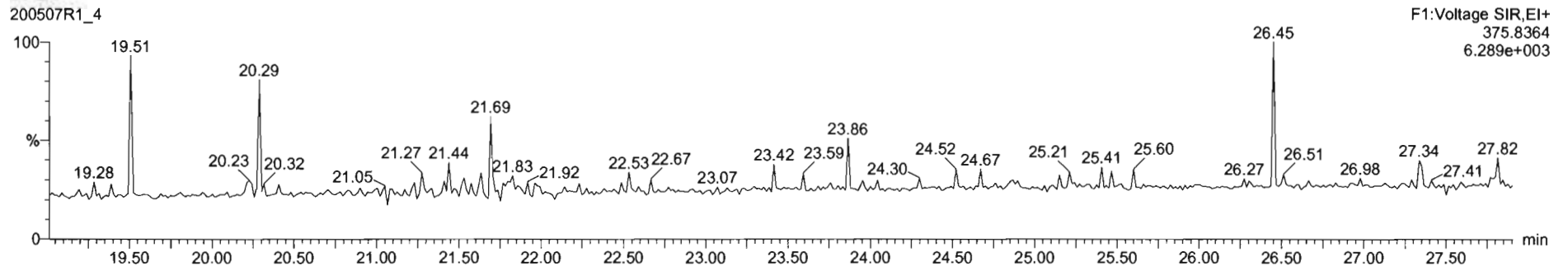
2,3,7,8-TCDF



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



DPE1



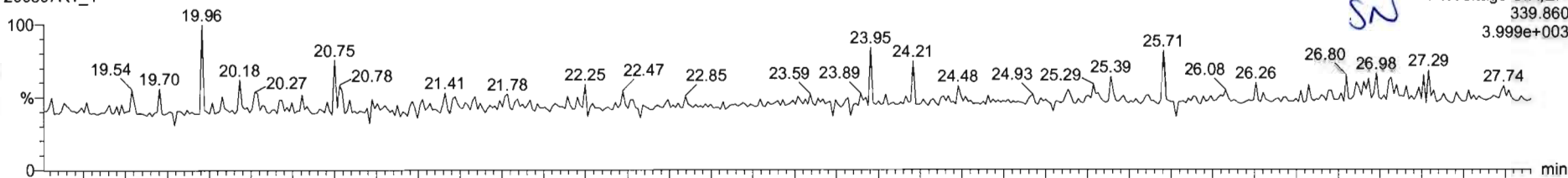
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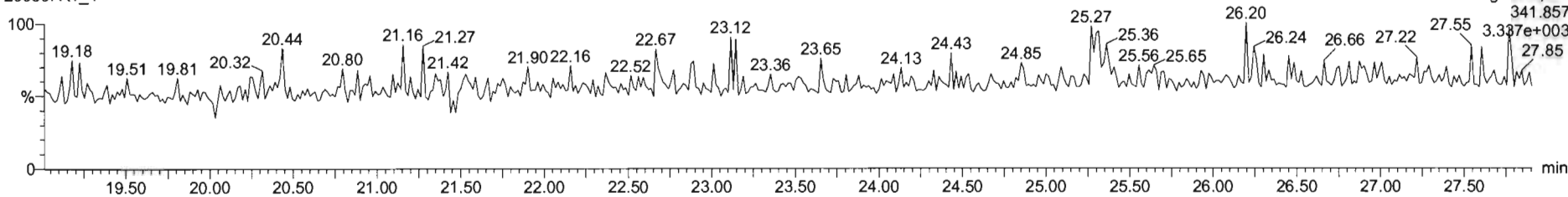
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1st Func. Penta-Furans

200507R1_4

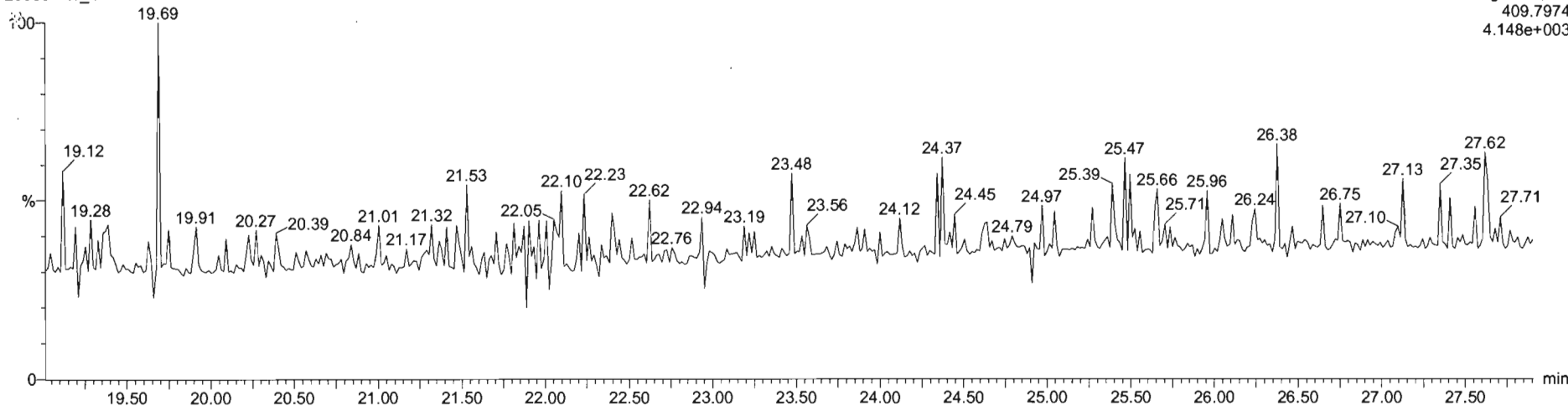


200507R1_4



DPE6

200507R1_4



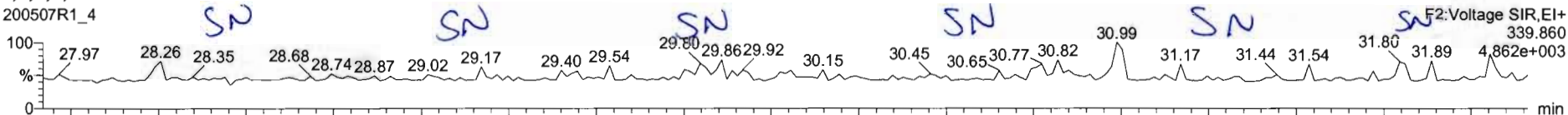
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

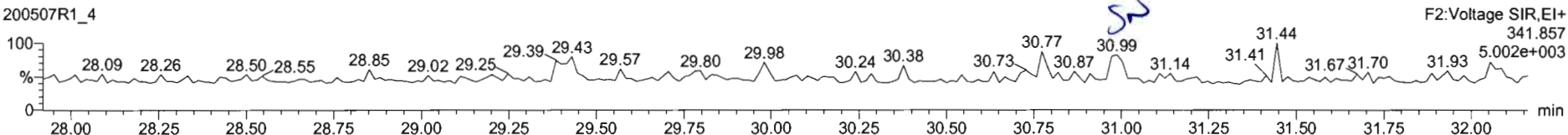
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1,2,3,7,8-PeCDF

200507R1_4

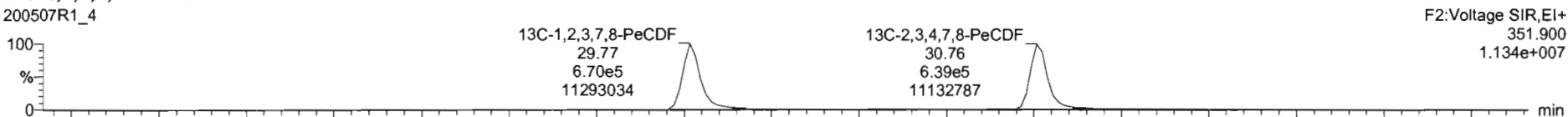


200507R1_4

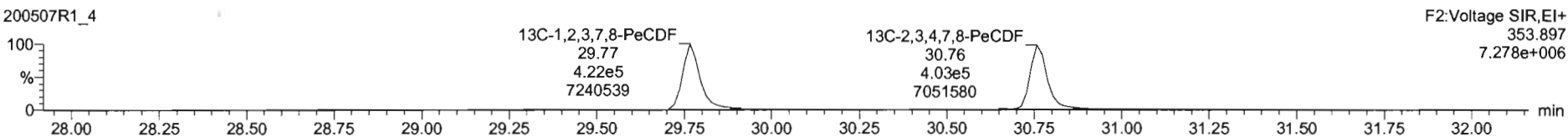


13C-1,2,3,7,8-PeCDF

200507R1_4

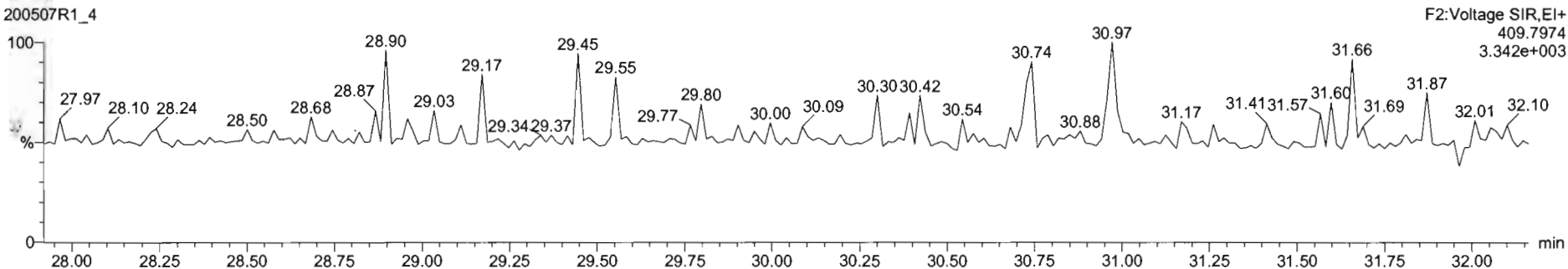


200507R1_4



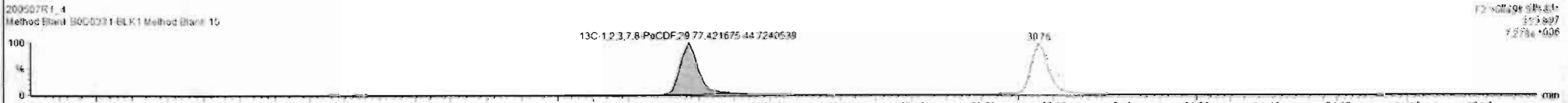
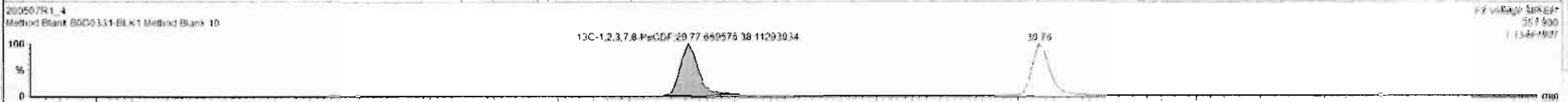
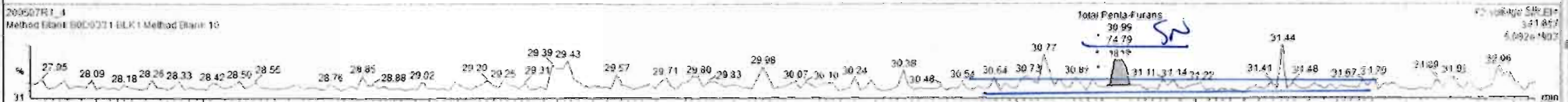
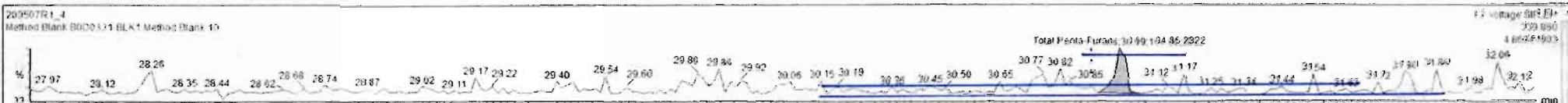
DPE2

200507R1_4



Name	Resp	RA	nfy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxans				0.8575	10.000					0.0624	
43 Total Tetra-Furans				0.7871	10.000					0.0209	
44 1st Func. Penta-Furans				0.9102	10.000					0.0140	
45 Total Penta-Furans				0.9102	10.000			0.0370		0.0255	0.0370

Name	RT	m1 Resp	m2 Resp	RA	nfy	EMPC	Conc
1 Total Penta-Furans	30.95	1.045e2	7.475e1	1.40	1.00	0.037000	0.037000

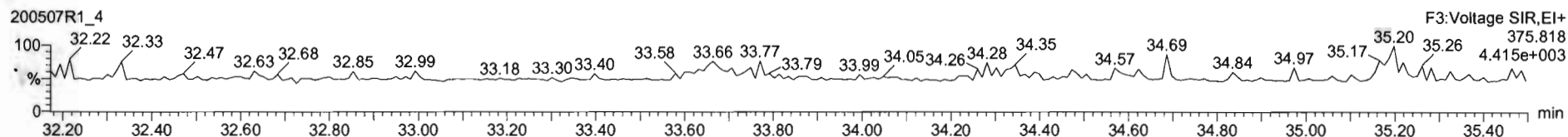
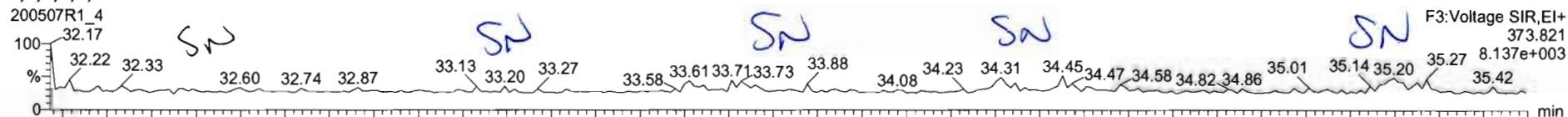


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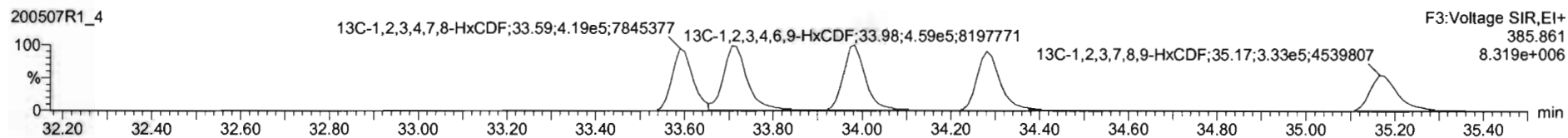
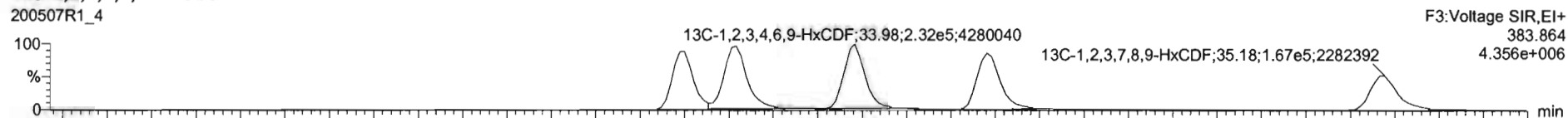
Last Altered: Thursday, May 07, 2020 1:30:35 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

Name: 200507R1_4, Date: 07-May-2020, Time: 10:29:32, ID: B0D0331-BLK1 Method Blank 10, Description: Method Blank

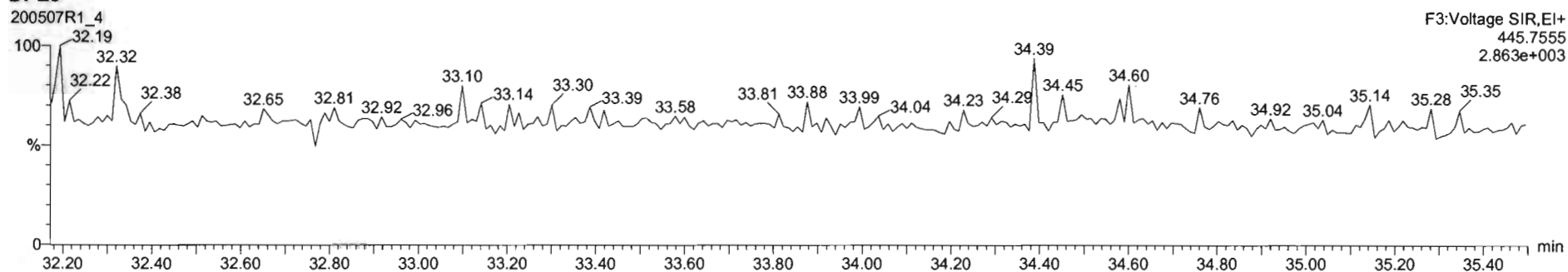
1,2,3,4,7,8-HxCDF



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



DPE3



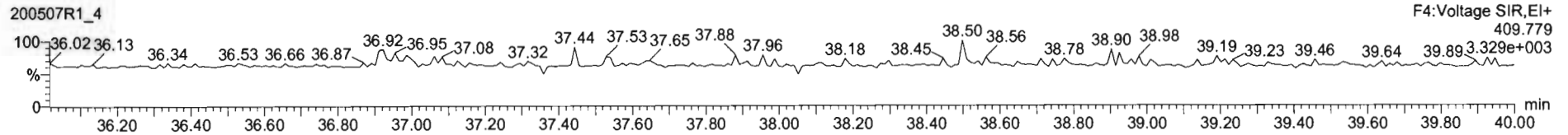
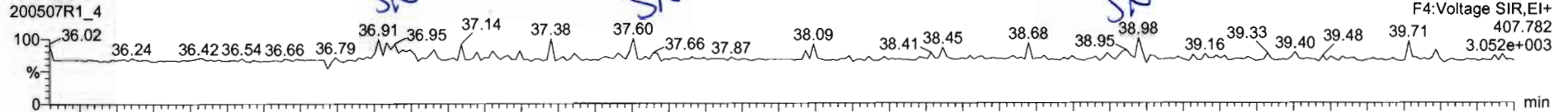
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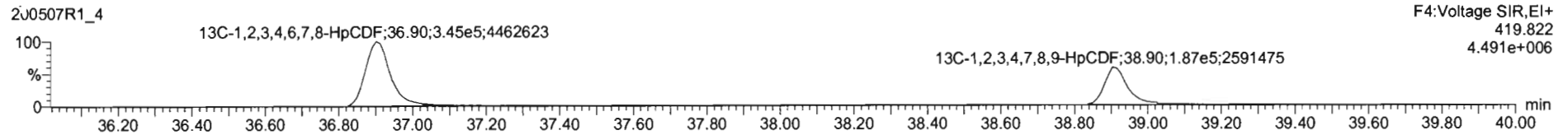
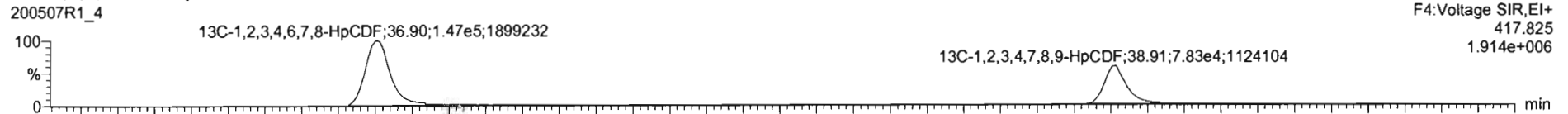
Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

Name: 200507R1_4, Date: 07-May-2020, Time: 10:29:32, ID: B0D0331-BLK1 Method Blank 10, Description: Method Blank

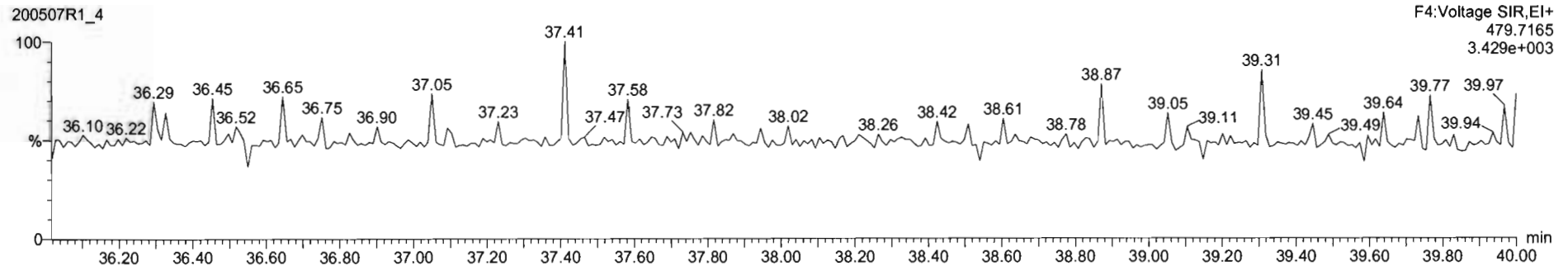
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13C-1,2,3,4,6,7,8-HpCDF



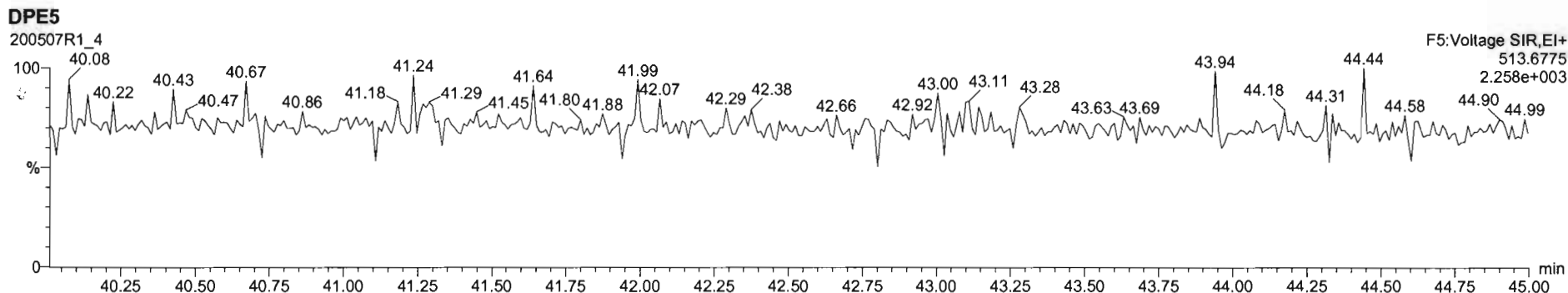
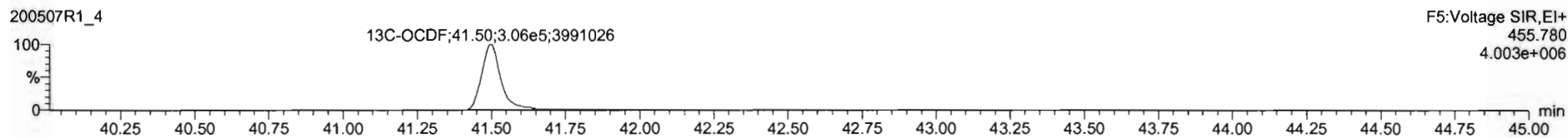
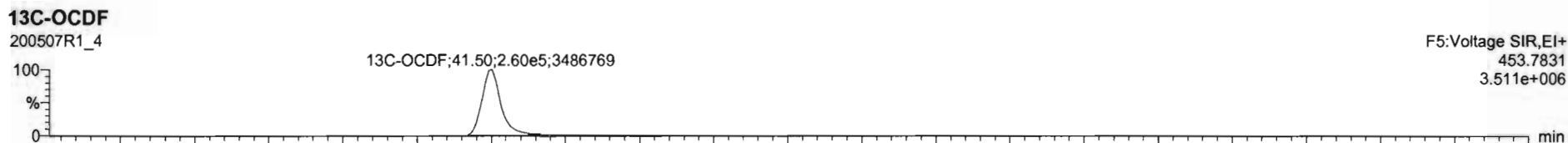
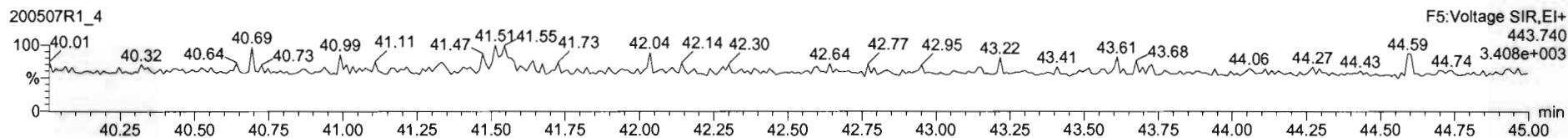
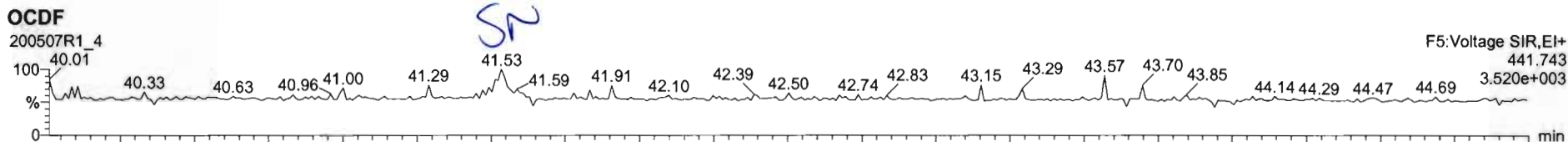
DPE4



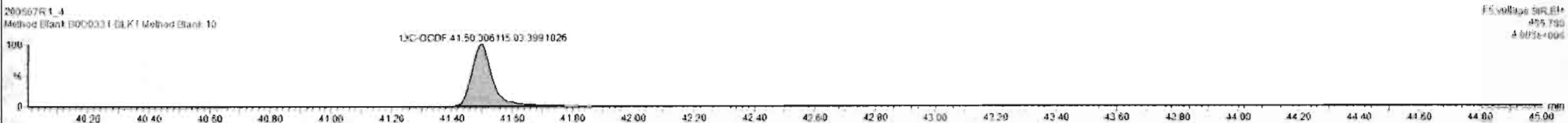
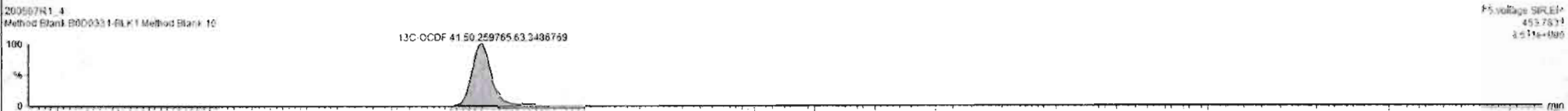
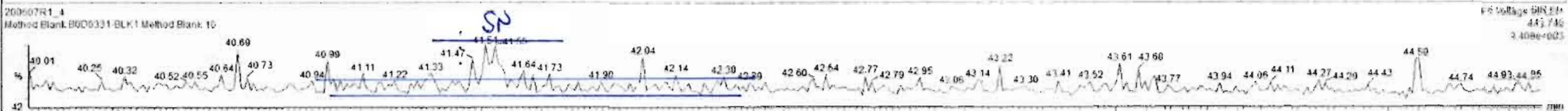
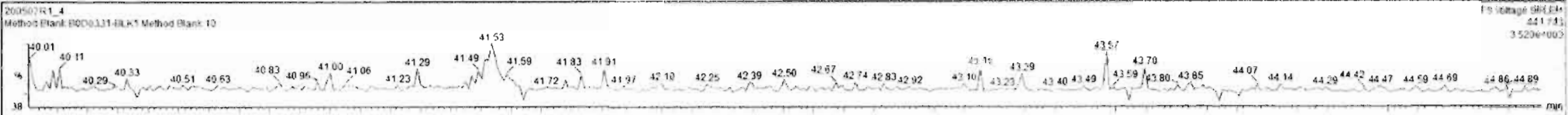
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Name: 200507R1_4, Date: 07-May-2020, Time: 10:29:32, ID: B0D0331-BLK1 Method Blank 10, Description: Method Blank



Name	Resp	RA	nHy	RRF	wfvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	0.9475	10.000					0.0866	
2 1,2,3,7,8-PeCDD			NO	0.9425	10.000					0.0700	
3 1,2,3,4,7,8-HxCDD			NO	1.0641	10.000					0.0849	
4 1,2,3,6,7,8-HxCDD			NO	0.9145	10.000					0.0908	
5 1,2,3,7,8,9-HxCDD			NO	0.9145	10.000					0.108	
6 1,2,3,4,6,7,8-HpCDD			NO	0.8979	10.000					0.120	
7 OCDD			NO	0.9335	10.000					0.0912	
8 2,3,7,8-TCDF			NO	0.7671	10.000					0.0510	
9 1,2,3,7,8-PeCDF			NO	0.9102	10.000					0.0522	
10 2,3,4,7,8-PeCDF			NO	0.9654	10.000					0.0499	
11 1,2,3,4,7,8-HxCDF			NO	0.8782	10.000					0.0665	
12 1,2,3,6,7,8-HxCDF			NO	0.8740	10.000					0.0619	
13 2,3,4,6,7,8-HxCDF			NO	0.9217	10.000					0.0659	
14 1,2,3,7,8,9-HxCDF			NO	0.8542	10.000					0.114	
15 1,2,3,4,6,7,8-HpCDF			NO	0.8712	10.000					0.0630	
16 1,2,3,4,7,8,9-HpCDF			NO	1.0116	10.000					0.0902	
17 OCDF			NO	0.8021	10.000					0.143	



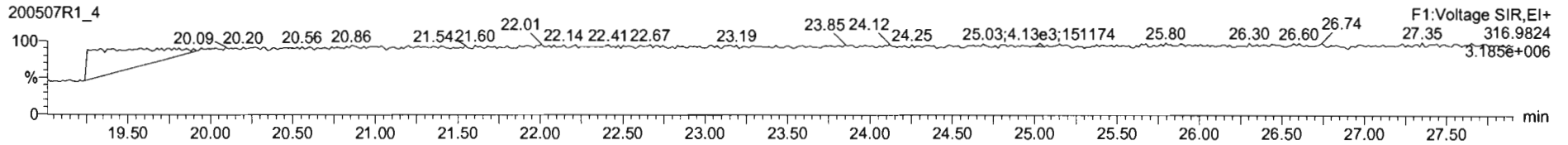
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Dataset: Untitled

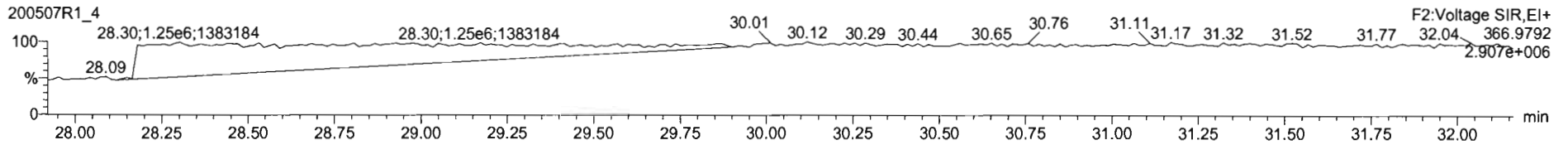
Last Altered: Thursday, May 07, 2020 1:30:35 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

Name: 200507R1_4, Date: 07-May-2020, Time: 10:29:32, ID: B0D0331-BLK1 Method Blank 10, Description: Method Blank

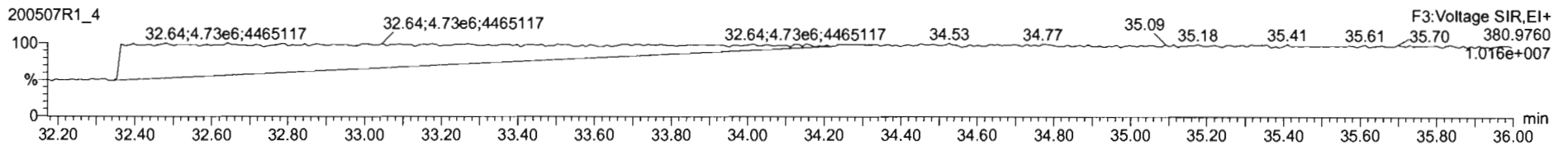
PFK1



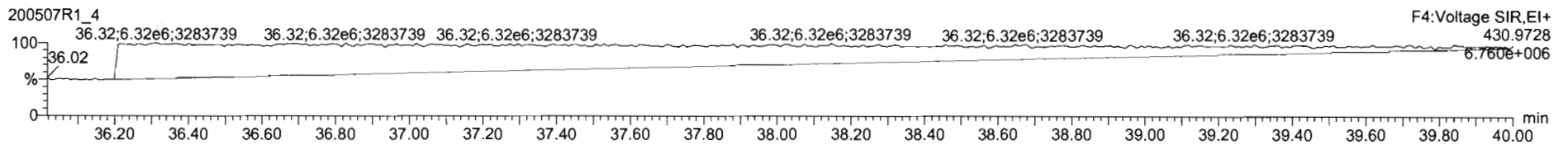
PFK2



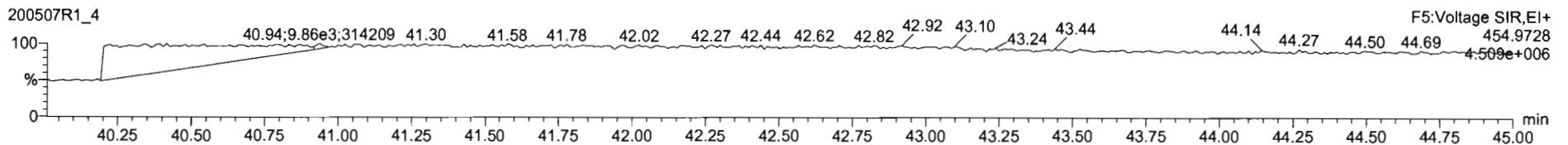
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200507R1\200507R1-2.qld

Last Altered: Friday, May 08, 2020 9:33:51 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 9:34:13 AM Pacific Daylight Time

GPB 05/08/2020

CT 05/14/2020

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

Name: 200507R1_2, Date: 07-May-2020, Time: 08:55:44, ID: B0D0331-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	7.38e4	0.76	NO	0.947	10.000	26.006	25.99	1.001	1.001	16.535		0.123	16.5
2	2 1,2,3,7,8-PeCDD	2.75e5	0.63	NO	0.942	10.000	31.101	31.09	1.001	1.000	86.014		0.262	86.0
3	3 1,2,3,4,7,8-HxCDD	2.31e5	1.25	NO	1.06	10.000	34.473	34.47	1.000	1.000	94.047		0.308	94.0
4	4 1,2,3,6,7,8-HxCDD	2.48e5	1.26	NO	0.915	10.000	34.558	34.57	1.000	1.000	89.381		0.306	89.4
5	5 1,2,3,7,8,9-HxCDD	2.13e5	1.22	NO	0.915	10.000	34.845	34.85	1.000	1.000	92.072		0.387	92.1
6	6 1,2,3,4,6,7,8-HpCDD	1.49e5	1.03	NO	0.898	10.000	38.340	38.34	1.000	1.000	91.420		0.472	91.4
7	7 OCDD	2.36e5	0.89	NO	0.933	10.000	41.322	41.33	1.000	1.000	185.60		0.417	186
8	8 2,3,7,8-TCDF	8.53e4	0.75	NO	0.787	10.000	25.042	25.05	1.001	1.001	18.093		0.109	18.1
9	9 1,2,3,7,8-PeCDF	4.28e5	1.61	NO	0.910	10.000	29.788	29.78	1.001	1.001	90.621		0.381	90.6
10	10 2,3,4,7,8-PeCDF	4.14e5	1.55	NO	0.966	10.000	30.805	30.77	1.001	1.000	88.142		0.355	88.1
11	11 1,2,3,4,7,8-HxCDF	2.62e5	1.20	NO	0.878	10.000	33.600	33.61	1.000	1.000	98.291		0.383	98.3
12	12 1,2,3,6,7,8-HxCDF	3.11e5	1.20	NO	0.874	10.000	33.727	33.73	1.000	1.000	100.75		0.393	101
13	13 2,3,4,6,7,8-HxCDF	2.82e5	1.22	NO	0.922	10.000	34.327	34.30	1.001	1.000	100.20		0.427	100
14	14 1,2,3,7,8,9-HxCDF	2.11e5	1.22	NO	0.864	10.000	35.176	35.19	1.000	1.000	97.979		0.675	98.0
15	15 1,2,3,4,6,7,8-HpCDF	1.98e5	1.00	NO	0.871	10.000	36.949	36.92	1.001	1.000	98.296		0.383	98.3
16	16 1,2,3,4,7,8,9-HpCDF	1.34e5	0.98	NO	1.01	10.000	38.925	38.94	1.000	1.000	100.77		0.532	101
17	17 OCDF	2.34e5	0.86	NO	0.802	10.000	41.503	41.52	1.000	1.001	188.13		0.409	188
18	18 13C-2,3,7,8-TCDD	9.42e5	0.79	NO	1.16	10.000	25.954	25.98	1.026	1.027	190.77	95.4	0.386	
19	19 13C-1,2,3,7,8-PeCDD	6.78e5	0.63	NO	0.847	10.000	31.031	31.08	1.227	1.229	187.96	94.0	0.499	
20	20 13C-1,2,3,4,7,8-HxCDD	4.62e5	1.30	NO	0.750	10.000	34.462	34.46	1.014	1.014	199.90	99.9	0.695	
21	21 13C-1,2,3,6,7,8-HxCDD	6.07e5	1.28	NO	0.963	10.000	34.574	34.56	1.017	1.017	204.29	102	0.541	
22	22 13C-1,2,3,7,8,9-HxCDD	5.07e5	1.26	NO	0.838	10.000	34.843	34.83	1.025	1.025	196.17	98.1	0.622	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.62e5	1.09	NO	0.641	10.000	38.329	38.33	1.128	1.128	182.99	91.5	0.516	
24	24 13C-OCDD	5.45e5	0.90	NO	0.586	10.000	41.320	41.32	1.216	1.216	301.43	75.4	0.750	
25	25 13C-2,3,7,8-TCDF	1.20e6	0.78	NO	1.03	10.000	25.015	25.02	0.989	0.989	190.71	95.4	0.570	
26	26 13C-1,2,3,7,8-PeCDF	1.04e6	1.58	NO	0.845	10.000	29.724	29.77	1.176	1.177	202.19	101	0.781	
27	27 13C-2,3,4,7,8-PeCDF	9.72e5	1.61	NO	0.814	10.000	30.712	30.77	1.215	1.217	196.73	98.4	0.811	
28	28 13C-1,2,3,4,7,8-HxCDF	6.06e5	0.51	NO	1.00	10.000	33.602	33.60	0.989	0.989	195.67	97.8	0.804	
29	29 13C-1,2,3,6,7,8-HxCDF	7.07e5	0.51	NO	1.14	10.000	33.725	33.72	0.992	0.992	201.78	101	0.711	
30	30 13C-2,3,4,6,7,8-HxCDF	6.12e5	0.50	NO	1.02	10.000	34.292	34.29	1.009	1.009	194.03	97.0	0.790	
31	31 13C-1,2,3,7,8,9-HxCDF	4.99e5	0.50	NO	0.845	10.000	35.183	35.18	1.035	1.035	191.66	95.8	0.956	

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-2.qld

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Name: 200507R1_2, Date: 07-May-2020, Time: 08:55:44, ID: B0D0331-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.63e5	0.42	NO	0.771	10.000	36.912	36.91	1.086	1.086	194.70	97.3	0.524	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.64e5	0.41	NO	0.482	10.000	38.921	38.92	1.145	1.145	177.28	88.6	0.837	
34	34 13C-OCDF	6.21e5	0.86	NO	0.669	10.000	41.490	41.50	1.221	1.221	301.33	75.3	0.624	
35	35 37Cl-2,3,7,8-TCDD	3.60e5			1.10	10.000	25.984	25.99	1.028	1.028	76.944	96.2	0.0883	
36	36 13C-1,2,3,4-TCDD	8.52e5	0.79	NO	1.00	10.000	25.350	25.29	1.000	1.000	200.00	100	0.448	
37	37 13C-1,2,3,4-TCDF	1.21e6	0.79	NO	1.00	10.000	23.560	23.49	1.000	1.000	200.00	100	0.589	
38	38 13C-1,2,3,4,6,9-HxCDF	6.17e5	0.51	NO	1.00	10.000	34.000	33.98	1.000	1.000	200.00	100	0.808	

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-2.qld

Last Altered: Friday, May 08, 2020 9:33:51 AM Pacific Daylight Time
 Printed: Friday, May 08, 2020 9:34:13 AM Pacific Daylight Time

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

Name: 200507R1_2, Date: 07-May-2020, Time: 08:55:44, ID: B0D0331-BS1 OPR 10, Description: OPR

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	25.69	7.890e3	1.250e4	8.287e2	1.074e3	0.77	NO	1.903e3	0.42616	0.42616	0.123
2	2,3,7,8-TCDD	25.99	4.149e5	5.621e5	3.177e4	4.205e4	0.76	NO	7.382e4	16.535	16.535	0.123

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	30.01	1.129e4	1.528e4	5.912e2	7.855e2	0.75	YES	0.000e0	0.00000	0.40051	0.262
2	Total Penta-Dioxins	30.12	7.844e3	1.057e4	5.815e2	7.545e2	0.77	YES	0.000e0	0.00000	0.38466	0.262
3	Total Penta-Dioxins	30.68	4.275e3	7.715e3	2.259e2	4.202e2	0.54	NO	6.461e2	0.20209	0.20209	0.262
4	1,2,3,7,8-PeCDD	31.09	1.784e6	2.904e6	1.061e5	1.689e5	0.63	NO	2.750e5	86.014	86.014	0.262
5	Total Penta-Dioxins	31.51	1.007e4	8.129e3	5.816e2	8.303e2	0.70	NO	1.412e3	0.44161	0.44161	0.262

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	4.987e3	4.551e3	4.036e2	3.087e2	1.31	NO	7.123e2	0.29655	0.29655	0.347
2	Total Hexa-Dioxins	33.56	8.481e3	7.034e3	4.487e2	3.834e2	1.17	NO	8.322e2	0.34645	0.34645	0.347
3	Total Hexa-Dioxins	33.81	1.781e4	1.671e4	1.283e3	9.736e2	1.32	NO	2.257e3	0.93952	0.93952	0.347
4	1,2,3,4,7,8-HxCDD	34.47	2.270e6	1.803e6	1.286e5	1.027e5	1.25	NO	2.313e5	94.047	94.047	0.308
5	1,2,3,6,7,8-HxCDD	34.57	2.234e6	1.780e6	1.382e5	1.098e5	1.26	NO	2.480e5	89.381	89.381	0.306
6	1,2,3,7,8,9-HxCDD	34.85	1.816e6	1.445e6	1.173e5	9.618e4	1.22	NO	2.134e5	92.072	92.072	0.387

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.33	3.734e4	3.577e4	3.055e3	2.794e3	1.09	NO	5.849e3	3.5986	3.5986	0.472
2	1,2,3,4,6,7,8-HpCDD	38.34	1.005e6	9.559e5	7.549e4	7.310e4	1.03	NO	1.486e5	91.420	91.420	0.472

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-2.qld

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Name: 200507R1_2, Date: 07-May-2020, Time: 08:55:44, ID: B0D0331-BS1 OPR 10, Description: OPR

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.40	4.552e3	6.491e3	3.858e2	5.788e2	0.67	NO	9.645e2	0.20467	0.20467	0.109
2	Total Tetra-Furans	24.06	5.855e3	4.956e3	3.834e2	3.993e2	0.96	YES	0.000e0	0.00000	0.14998	0.109
3	2,3,7,8-TCDF	25.05	4.387e5	6.044e5	3.656e4	4.870e4	0.75	NO	8.527e4	18.093	18.093	0.109

Penta-Furans function 1

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

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.59	7.647e3	5.457e3	4.997e2	3.953e2	1.26	YES	0.000e0	0.00000	0.17983	0.379
2	Total Penta-Furans	28.79	2.732e4	1.321e4	2.587e3	1.370e3	1.89	YES	0.000e0	0.00000	0.76417	0.379
3	Total Penta-Furans	29.40	1.487e4	1.152e4	8.609e2	7.723e2	1.11	YES	0.000e0	0.00000	0.30978	0.379
4	Total Penta-Furans	29.46	9.231e3	6.294e3	4.166e2	2.581e2	1.61	NO	6.748e2	0.14759	0.14759	0.379
5	Total Penta-Furans	29.60	1.065e4	8.248e3	6.489e2	4.508e2	1.44	NO	1.100e3	0.24054	0.24054	0.379
6	1,2,3,7,8-PeCDF	29.78	4.078e6	2.641e6	2.636e5	1.641e5	1.61	NO	4.277e5	90.621	90.621	0.381
7	Total Penta-Furans	30.06	6.095e4	2.111e4	6.861e3	1.033e3	6.64	YES	0.000e0	0.00000	0.57592	0.379
8	2,3,4,7,8-PeCDF	30.77	4.341e6	2.793e6	2.520e5	1.621e5	1.55	NO	4.140e5	88.142	88.142	0.355
9	Total Penta-Furans	31.74	1.704e4	1.736e4	9.165e2	1.140e3	0.80	YES	0.000e0	0.00000	0.32979	0.379

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	1.359e4	8.612e3	7.099e2	5.441e2	1.30	NO	1.254e3	0.44884	0.44884	0.438
2	Total Hexa-Furans	32.62	2.502e4	1.919e4	1.769e3	1.337e3	1.32	NO	3.105e3	1.111e5	1.111e5	0.438
3	1,2,3,4,7,8-HxCDF	33.61	2.772e6	2.324e6	1.430e5	1.187e5	1.20	NO	2.617e5	98.291	98.291	0.383
4	1,2,3,6,7,8-HxCDF	33.73	2.846e6	2.396e6	1.701e5	1.414e5	1.20	NO	3.115e5	100.75	100.75	0.393
5	2,3,4,6,7,8-HxCDF	34.30	2.804e6	2.304e6	1.551e5	1.274e5	1.22	NO	2.825e5	100.20	100.20	0.427
6	1,2,3,7,8,9-HxCDF	35.19	1.637e6	1.390e6	1.161e5	9.535e4	1.22	NO	2.114e5	97.979	97.979	0.675

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-2.qld

Last Altered: Friday, May 08, 2020 9:33:51 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 9:34:13 AM Pacific Daylight Time

Name: 200507R1_2, Date: 07-May-2020, Time: 08:55:44, ID: B0D0331-BS1 OPR 10, Description: OPR

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.92	1.372e6	1.358e6	9.911e4	9.918e4	1.00	NO	1.983e5	98.296	98.296	0.383
2	Total Hepta-Furans	37.34	1.341e4	1.051e4	8.900e2	8.102e2	1.10	NO	1.700e3	1.0740	1.0740	0.468
3	Total Hepta-Furans	37.51	1.471e4	1.590e4	1.028e3	8.915e2	1.15	NO	1.920e3	1.2128	1.2128	0.468
4	1,2,3,4,7,8,9-HpCDF	38.94	9.402e5	9.450e5	6.666e4	6.775e4	0.98	NO	1.344e5	100.77	100.77	0.532

Dataset: Untitled

Last Altered: Thursday, May 07, 2020 1:30:09 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 1:30:28 PM Pacific Daylight Time

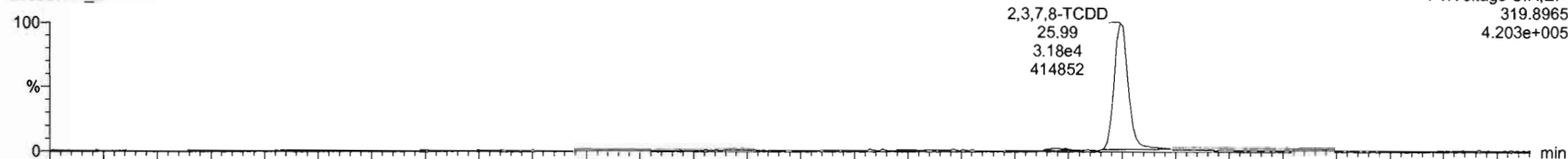
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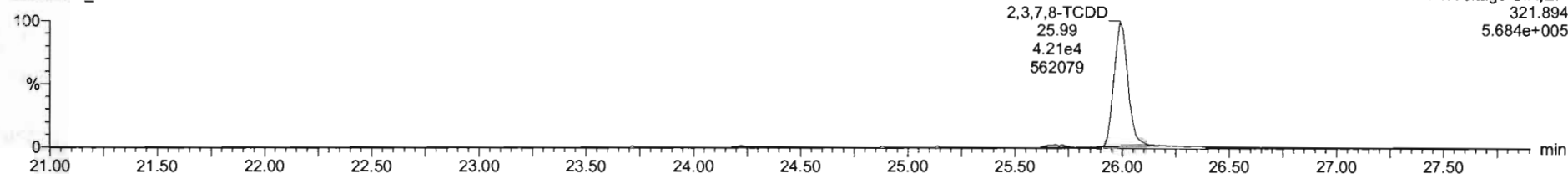
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2,3,7,8-TCDD

200507R1_2

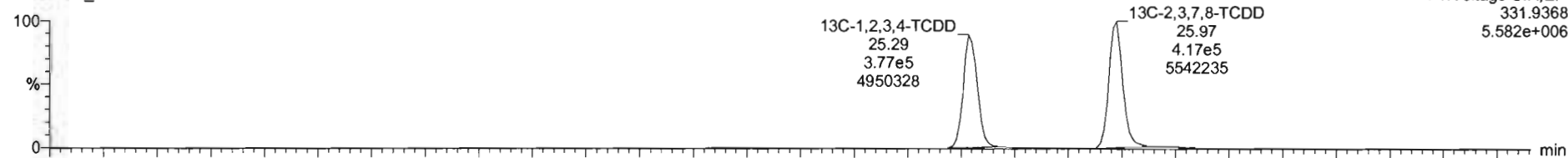


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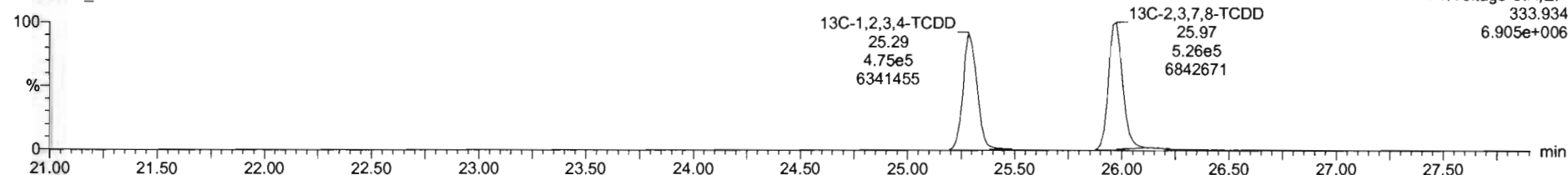


13C-2,3,7,8-TCDD

200507R1_2



200507R1_2



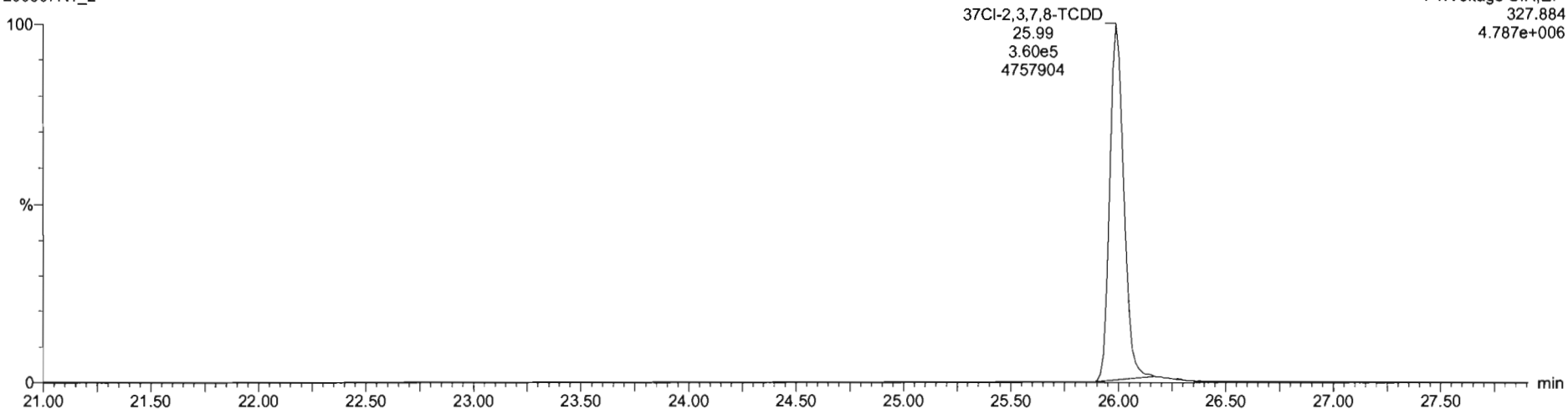
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Printed: Thursday, May 07, 2020 1:30:28 PM Pacific Daylight Time

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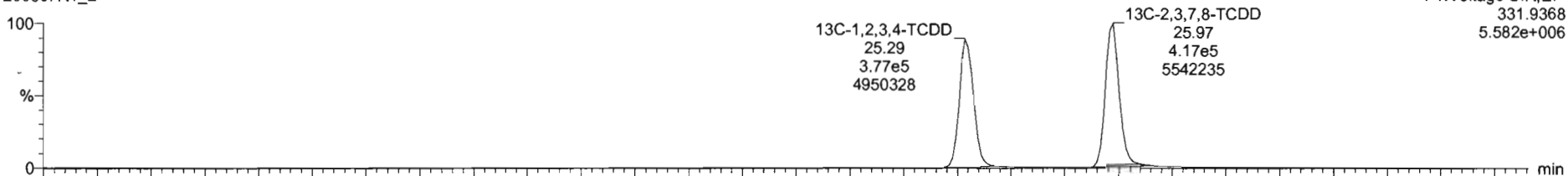
37Cl-2,3,7,8-TCDD

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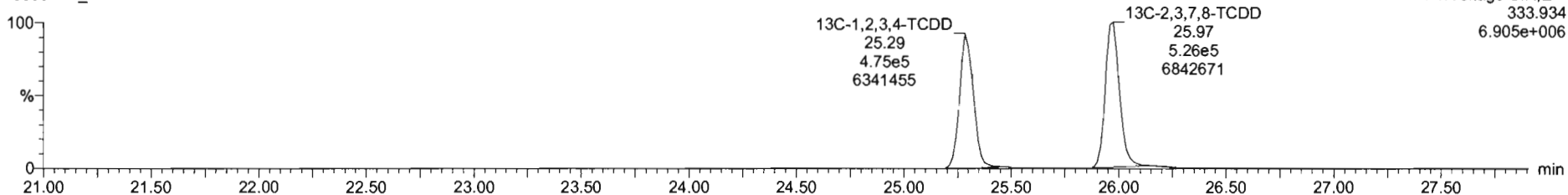


13C-1,2,3,4-TCDD

200507R1_2



200507R1_2



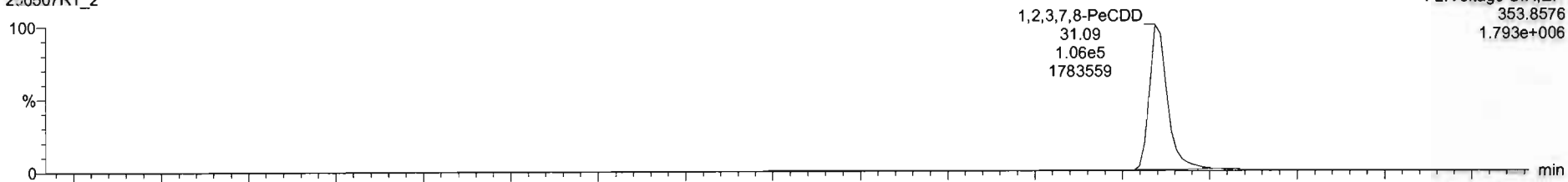
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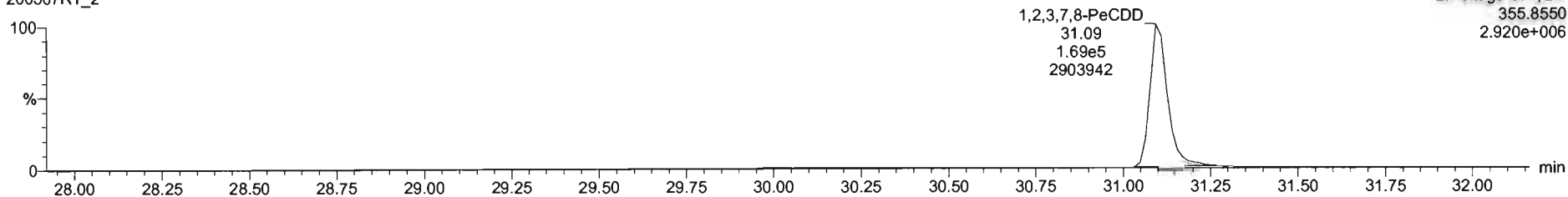
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1,2,3,7,8-PeCDD

200507R1_2

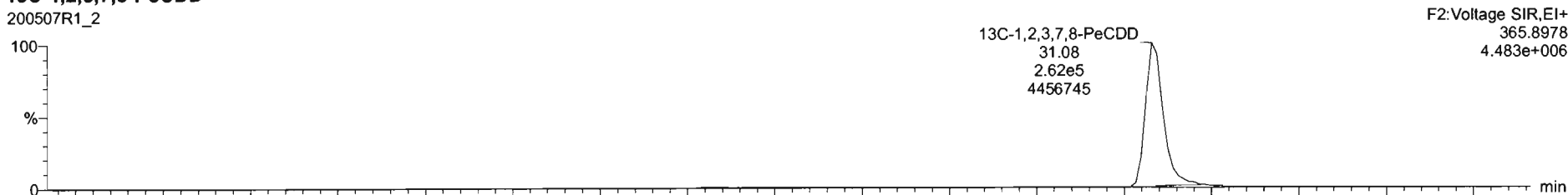


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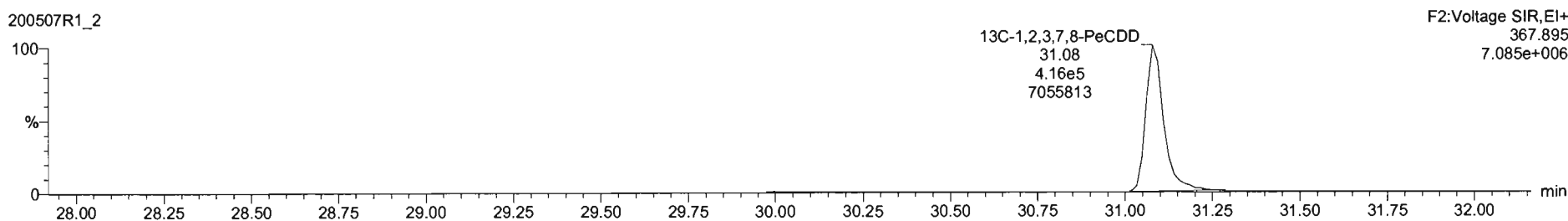


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200507R1_2



200507R1_2



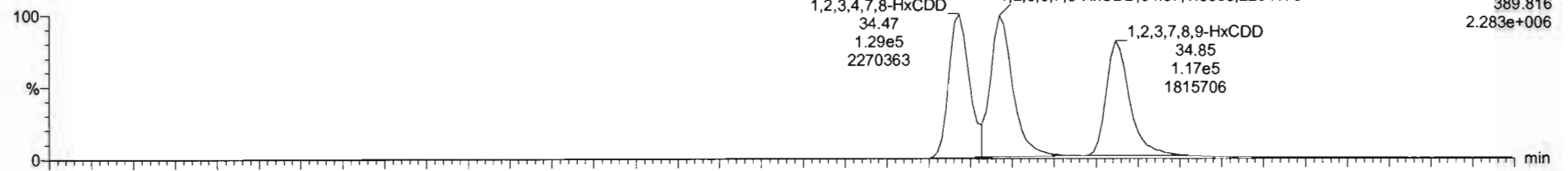
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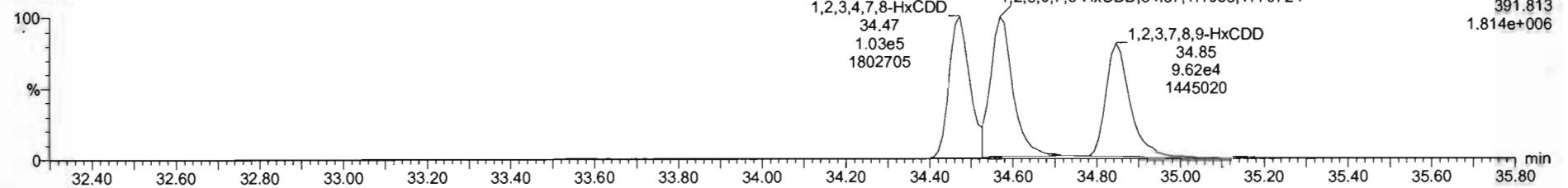
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1,2,3,4,7,8-HxCDD

200507R1_2

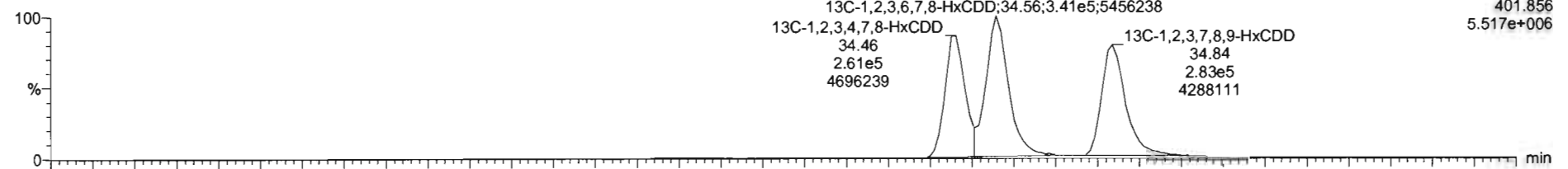


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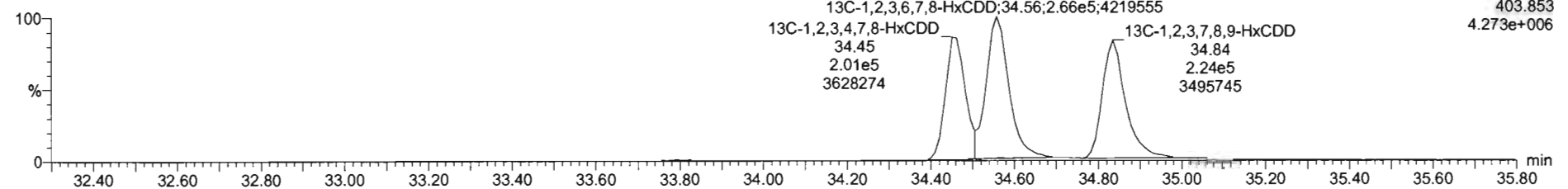


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200507R1_2



200507R1_2



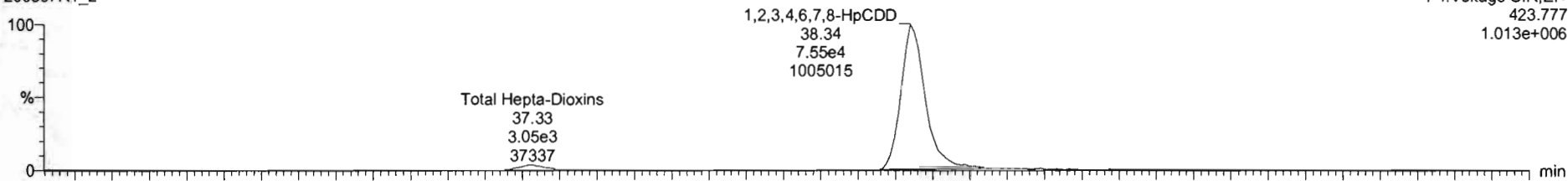
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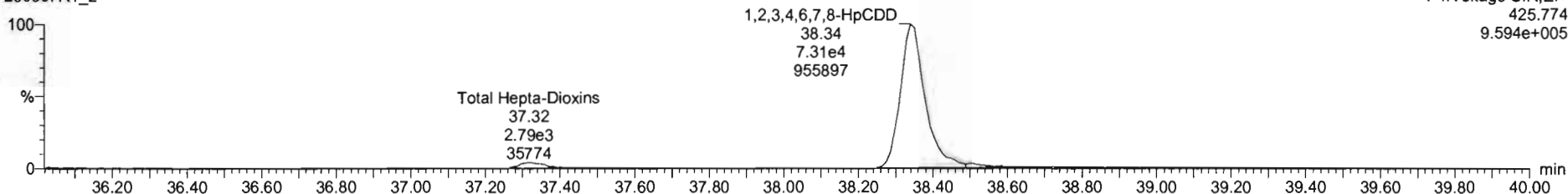
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1,2,3,4,6,7,8-HpCDD

200507R1_2

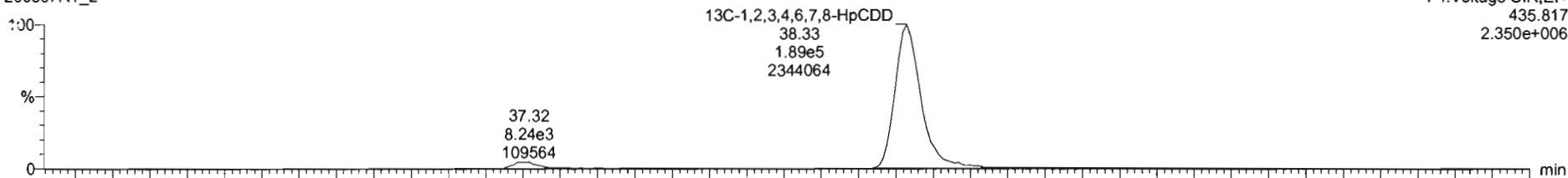


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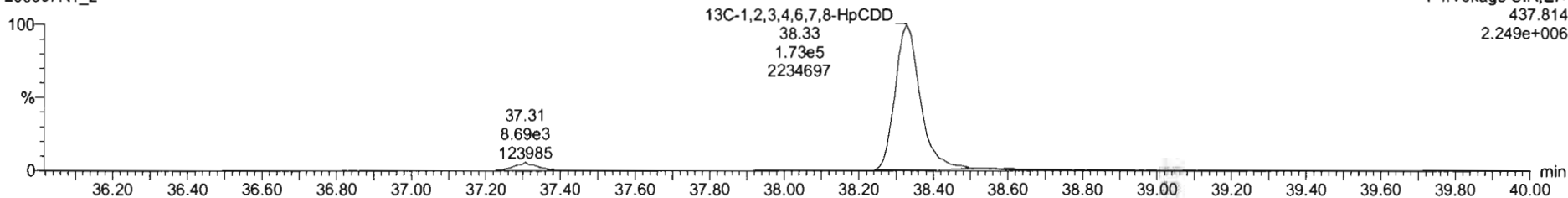


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200507R1_2



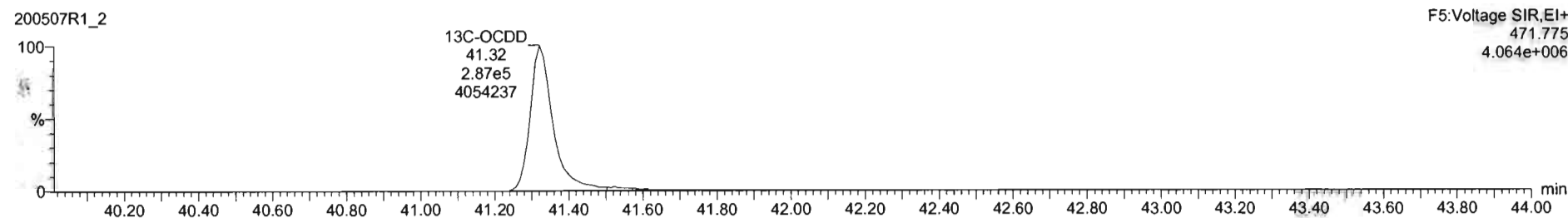
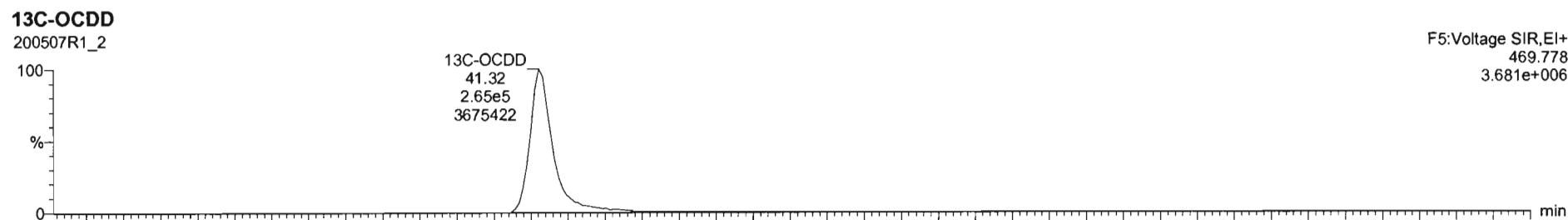
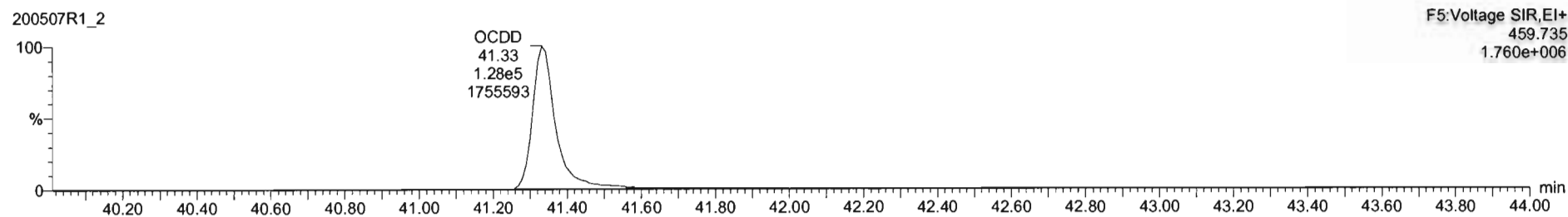
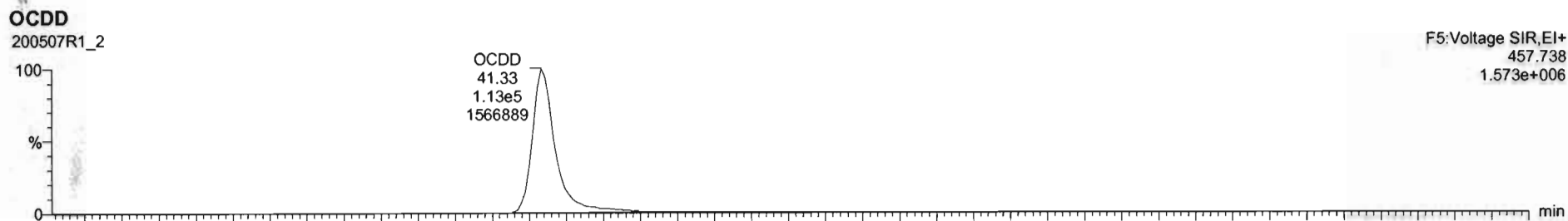
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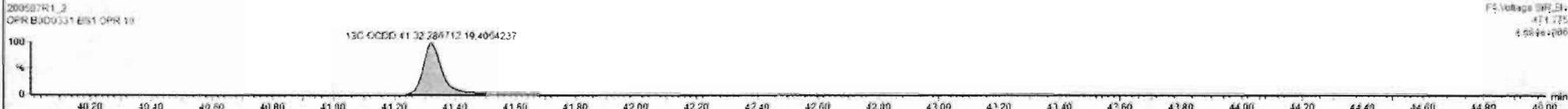
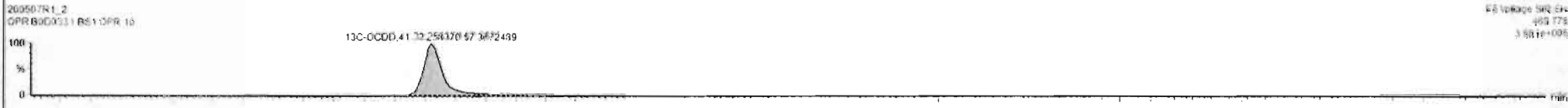
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Printed: Thursday, May 07, 2020 1:30:28 PM Pacific Daylight Time

Name: 200507R1_2, Date: 07-May-2020, Time: 08:55:44, ID: B0D0331-BS1 OPR 10, Description: OPR



Name	Resp	RA	nfy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1.2.3.7.6.5-HxCDD	2.13e5	1.22	NO	0.9145	10.000	34.85	1.000	92.1		0.387	92.1
1.2.3.4.6.7.8-HpCDD	1.48e5	1.03	NO	0.6379	10.000	36.34	1.000	91.4		0.472	91.4
OCDD	2.36e5	0.89	NO	0.8335	10.000	41.33	1.000	100		0.417	100
2.3.7.8-TCDF	6.53e4	0.75	NO	0.7571	10.000	25.05	1.001	18.1		0.109	18.1

Name	RT	m1 Resp	m2 Resp	RA	nfy	EMPC	Conc
1							



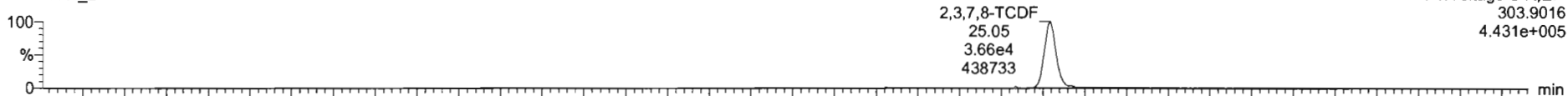
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Printed: Thursday, May 07, 2020 1:30:28 PM Pacific Daylight Time

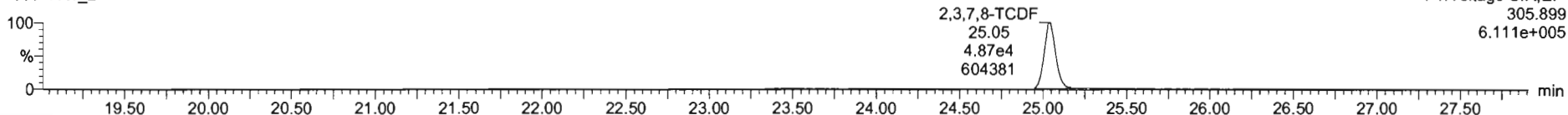
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2,3,7,8-TCDF

200507R1_2

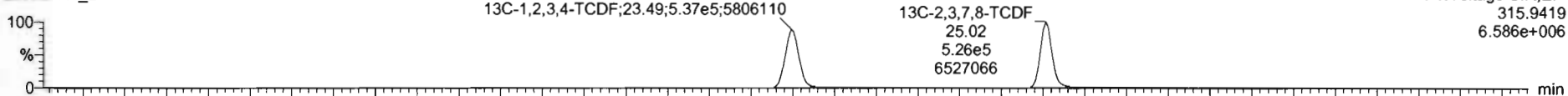


200507R1_2

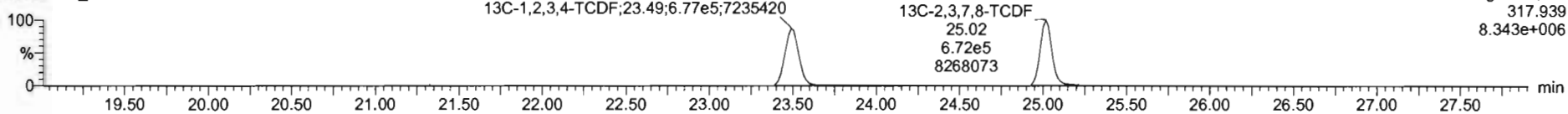


13C-2,3,7,8-TCDF

200507R1_2

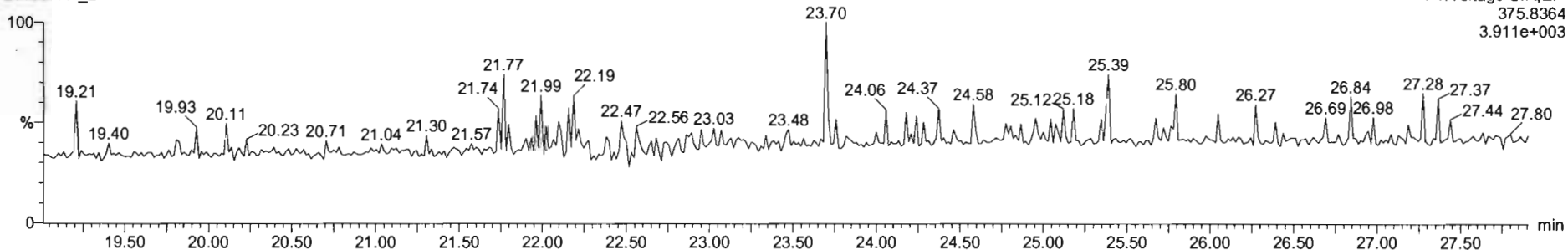


200507R1_2



DPE1

200507R1_2



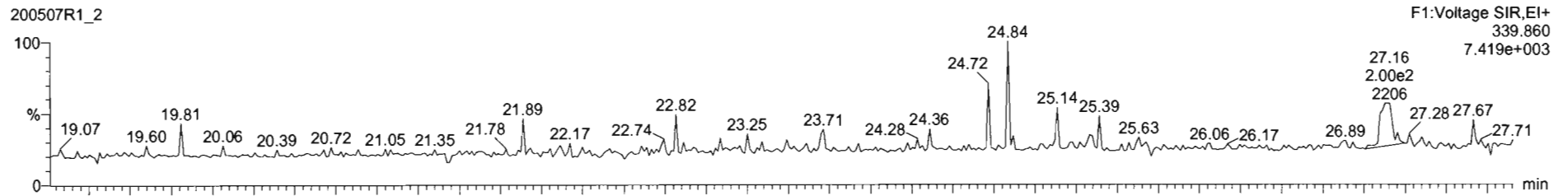
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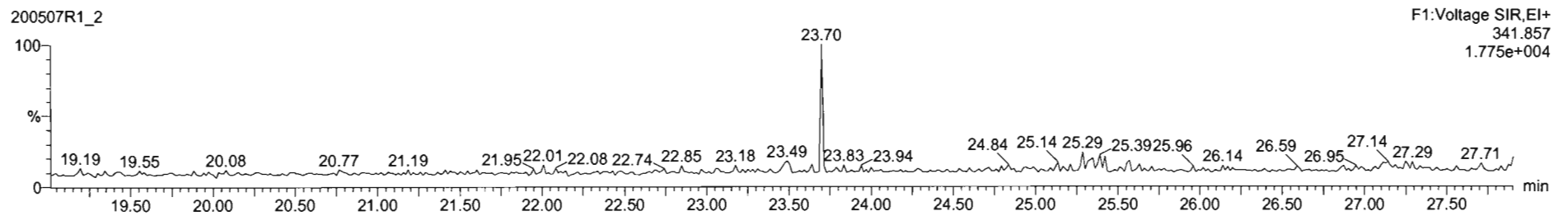
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1st Func. Penta-Furans

200507R1_2

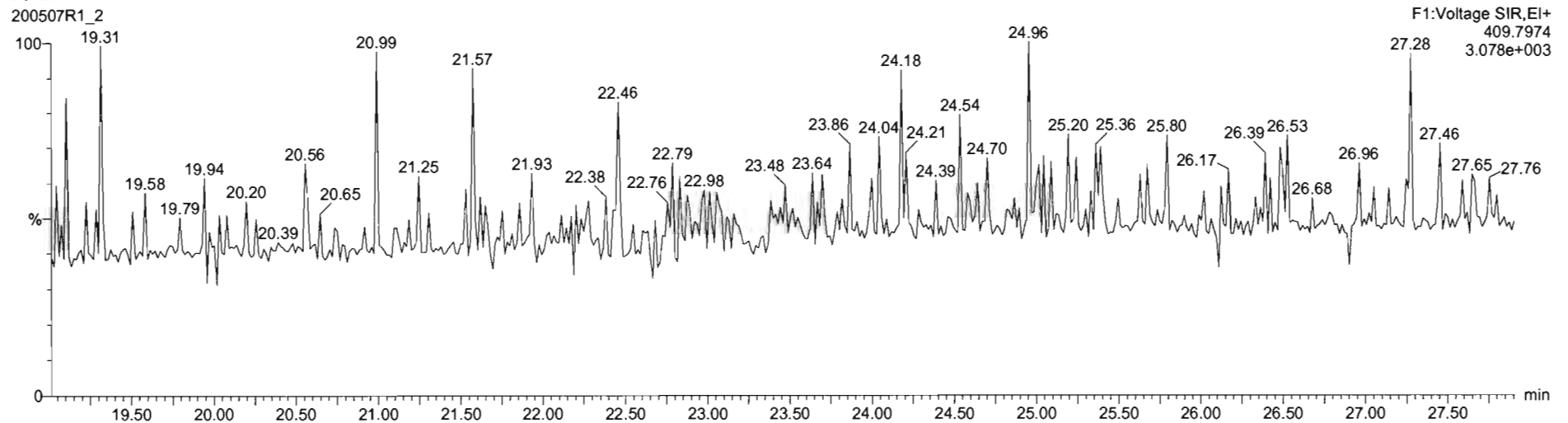


200507R1_2



PE6

200507R1_2



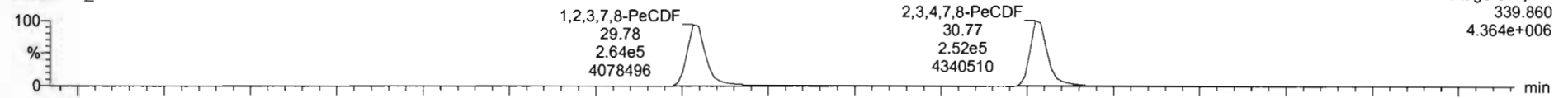
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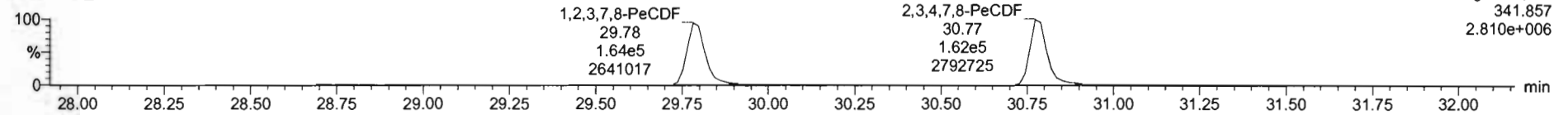
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1,2,3,7,8-PeCDF

200507R1_2

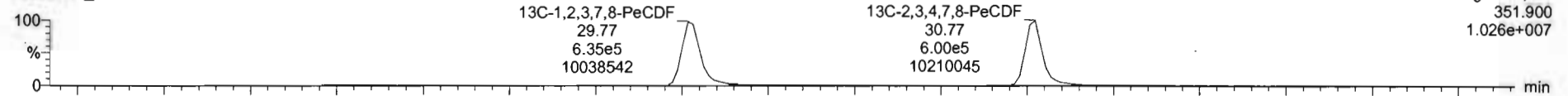


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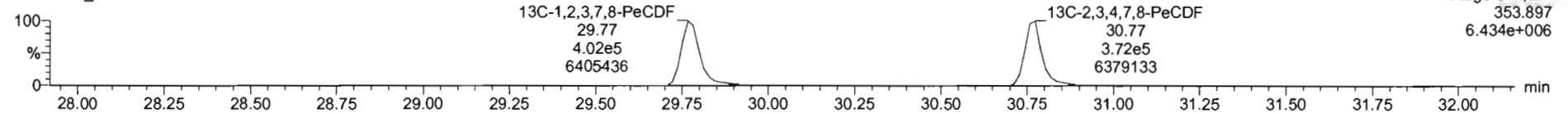


13C-1,2,3,7,8-PeCDF

200507R1_2

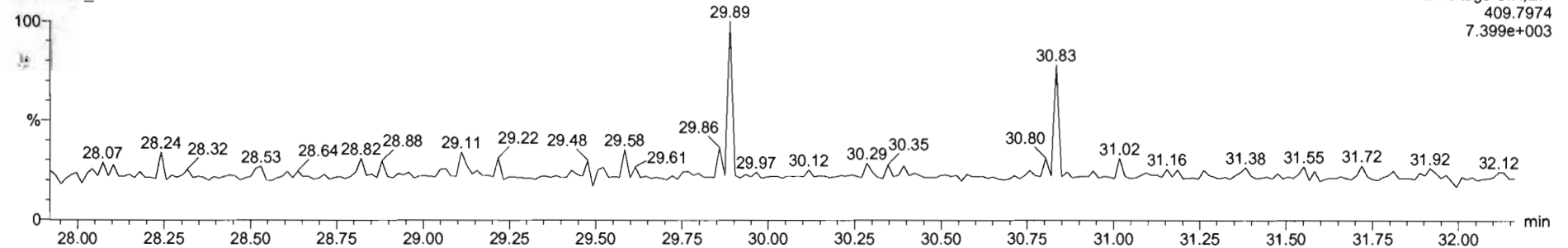


200507R1_2



DPE2

200507R1_2



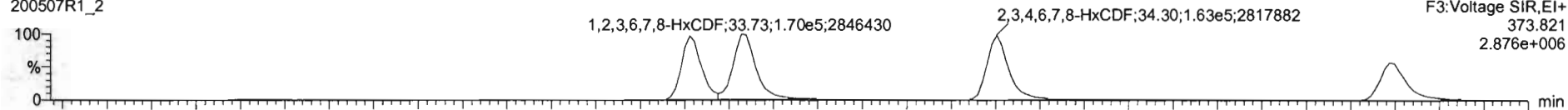
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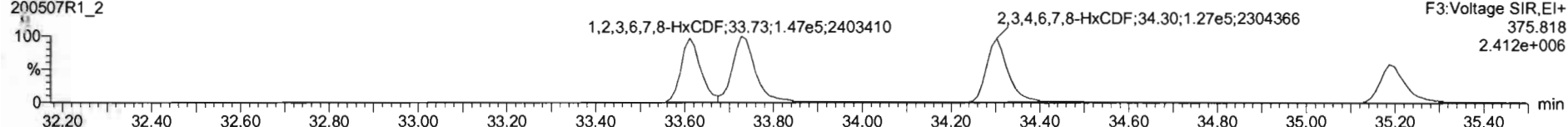
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1,2,3,4,7,8-HxCDF

200507R1_2

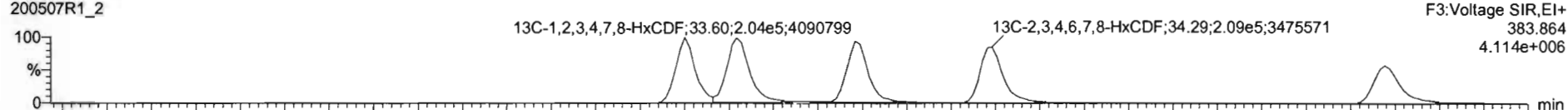


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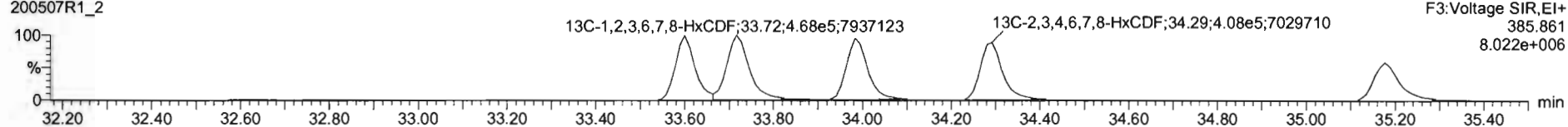


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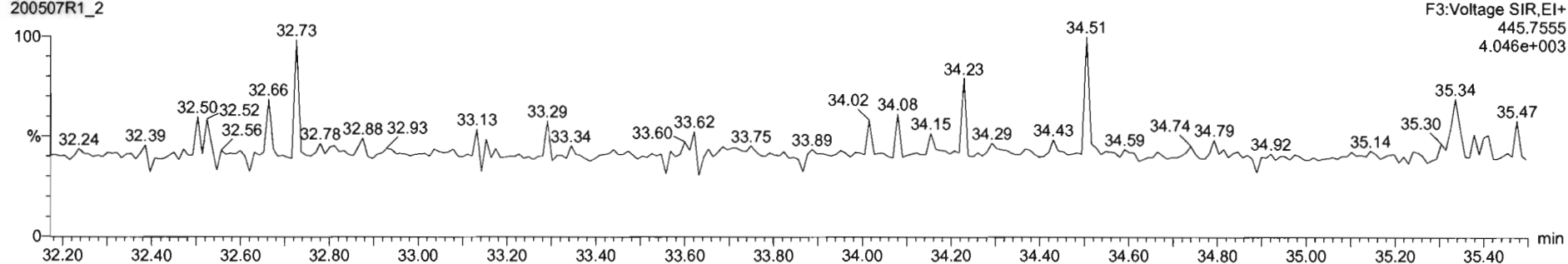


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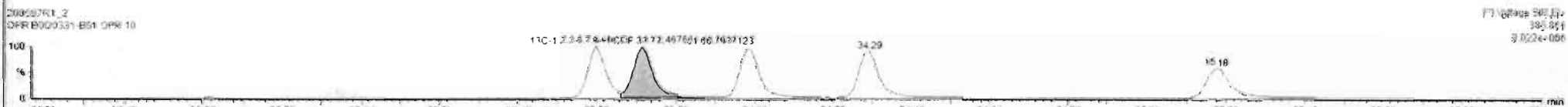
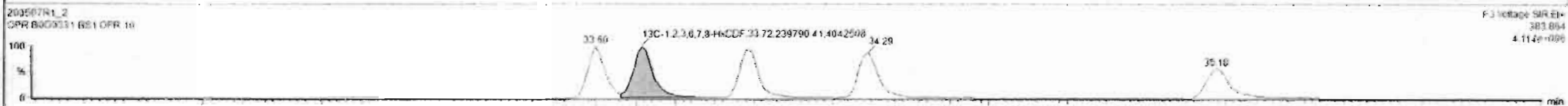
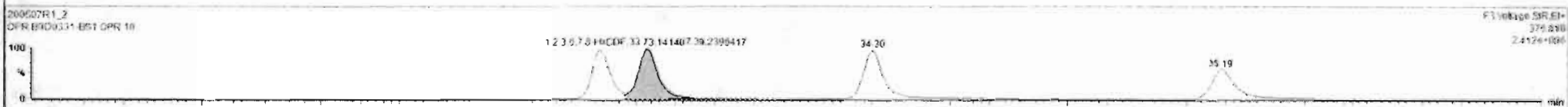
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200507R1_2



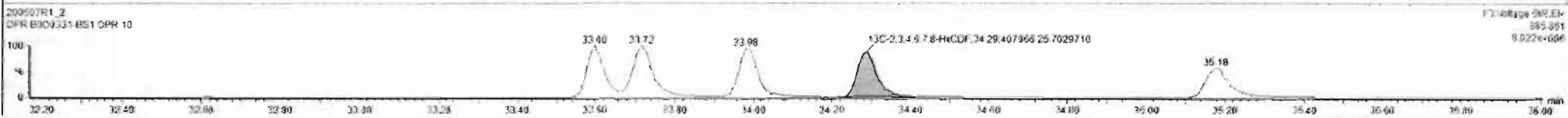
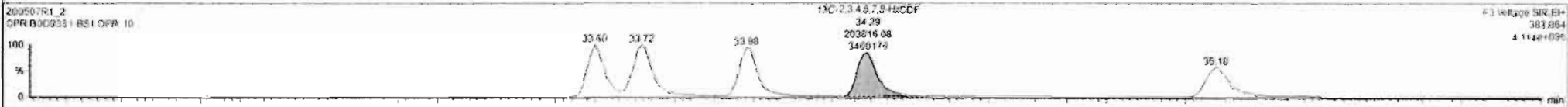
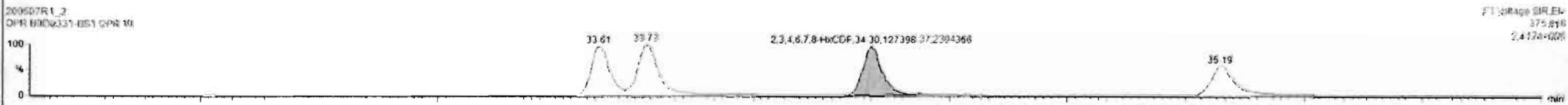
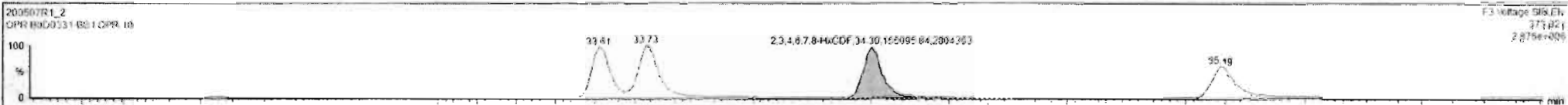
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10	2,3,4,7,8-PeCDF	4.14e5	1.55	NO	0.9664	10.000	30.77	1.000	88.1	0.355	88.1
11	1,2,3,4,7,8-HxCDF	2.62e5	1.20	NO	0.8702	10.000	33.61	1.000	96.3	0.362	96.3
12	1,2,3,6,7,8-HxCDF	3.11e5	1.20	NO	0.6748	10.000	33.73	1.000	101	0.393	101

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



ID	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
13	2,3,4,6,7,8-HxCDF	2.62e5	1.22	NO	0.9217	10.000	34.30	1.000	100		0.427	100
14	1,2,3,7,8,9-HxCDF	2.11e5	1.22	NO	0.8842	10.000	35.15	1.000	98.0		0.675	98.0
15	1,2,3,4,6,7,8-HxCDF	1.96e5	1.00	NO	0.8712	10.000	36.92	1.000	96.3		0.363	95.3
16	1,2,3,4,7,8,9-HxCDF	1.36e5	1.00	NO	1.0116	10.000	38.94	1.000	102		0.532	102

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



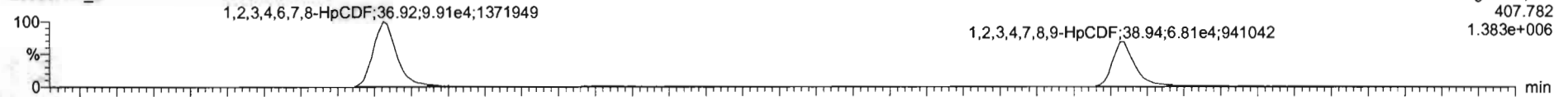
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Printed: Thursday, May 07, 2020 1:30:28 PM Pacific Daylight Time

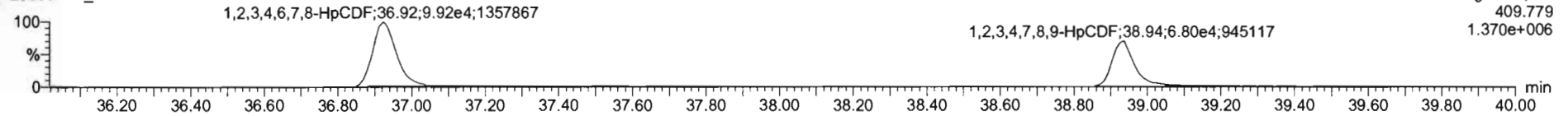
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1,2,3,4,6,7,8-HpCDF

200507R1_2

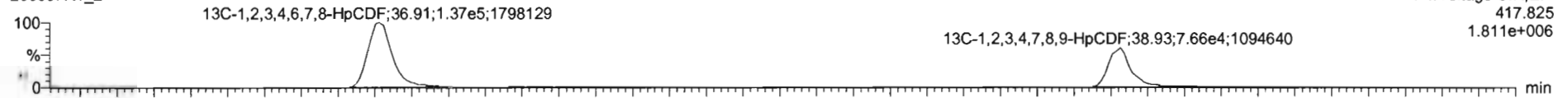


200507R1_2

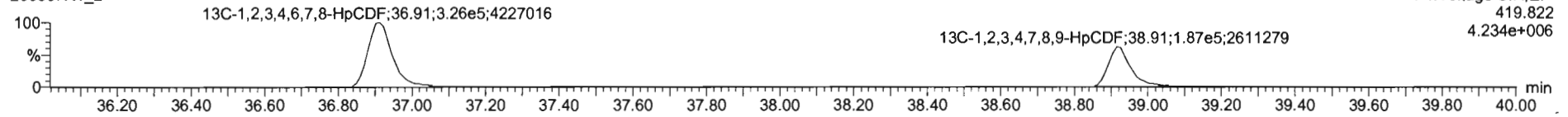


13C-1,2,3,4,6,7,8-HpCDF

200507R1_2

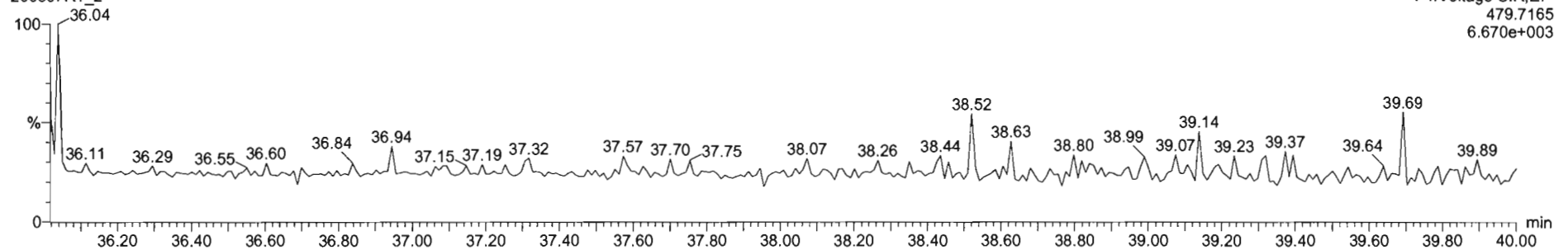


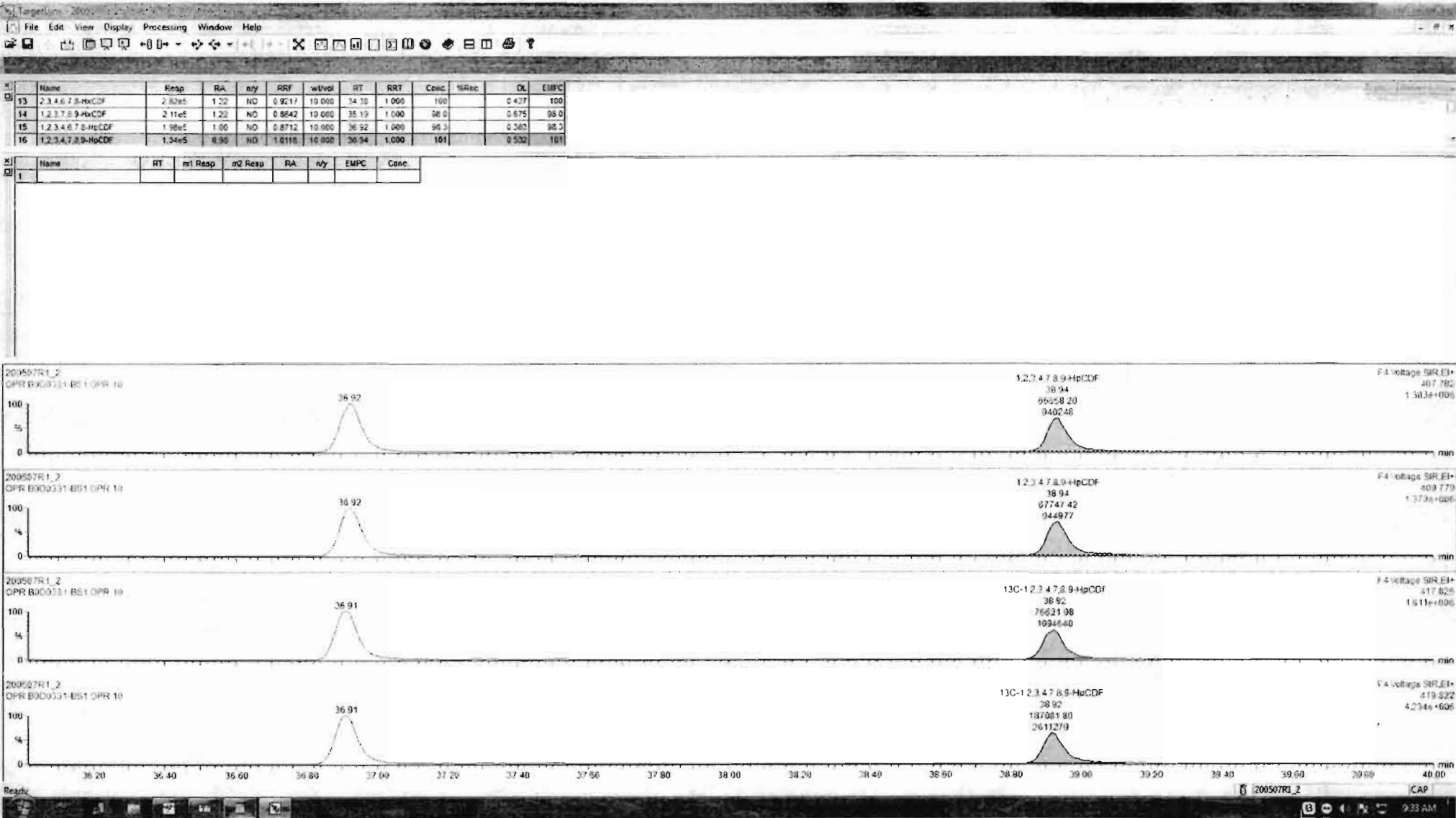
200507R1_2



DPE4

200507R1_2

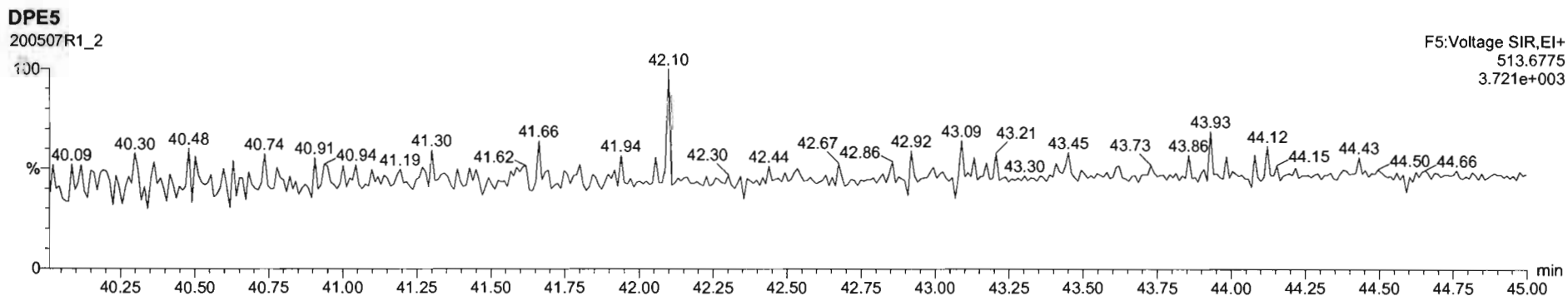
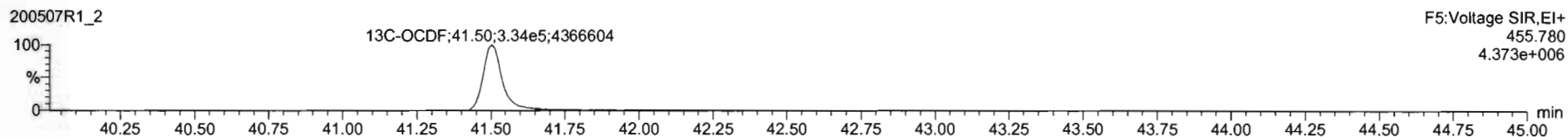
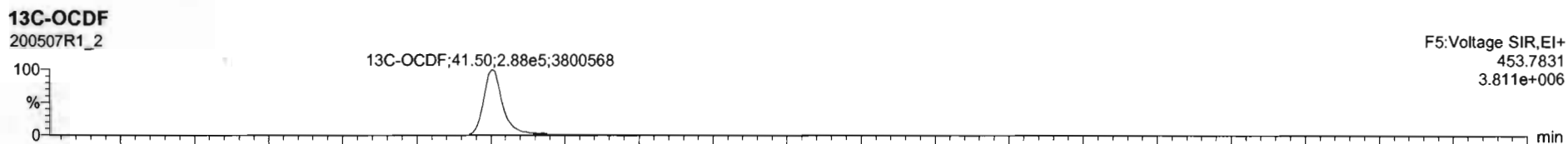
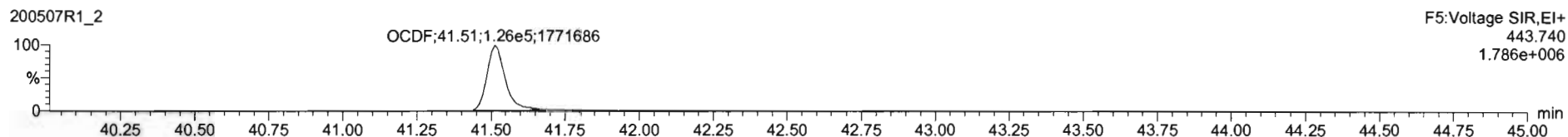
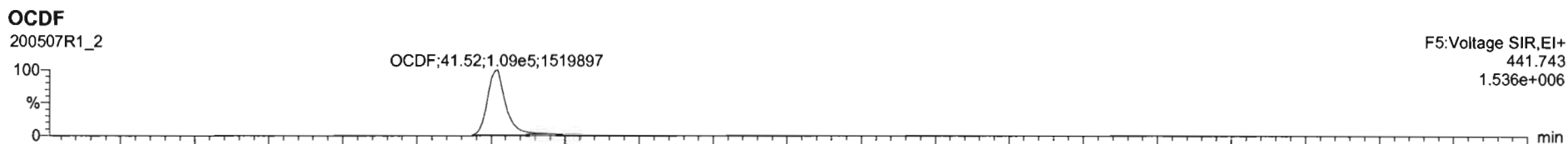




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Printed: Thursday, May 07, 2020 1:30:28 PM Pacific Daylight Time

Name: 200507R1_2, Date: 07-May-2020, Time: 08:55:44, ID: B0D0331-BS1 OPR 10, Description: OPR

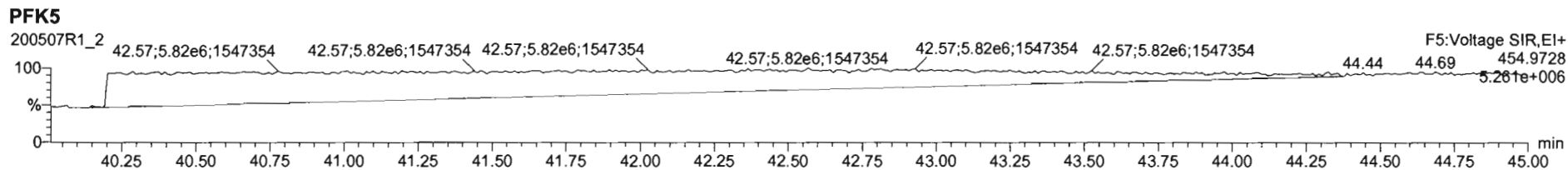
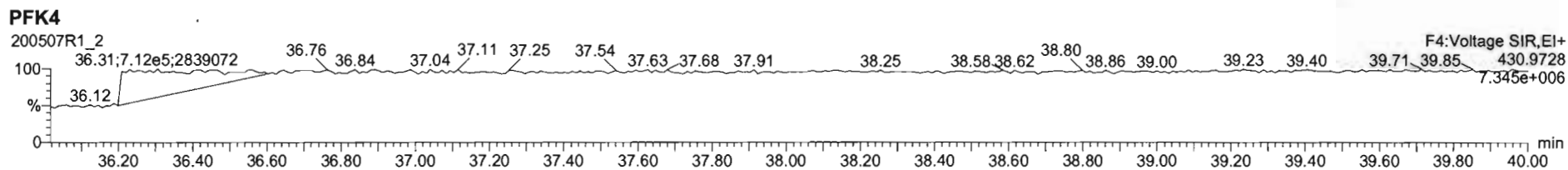
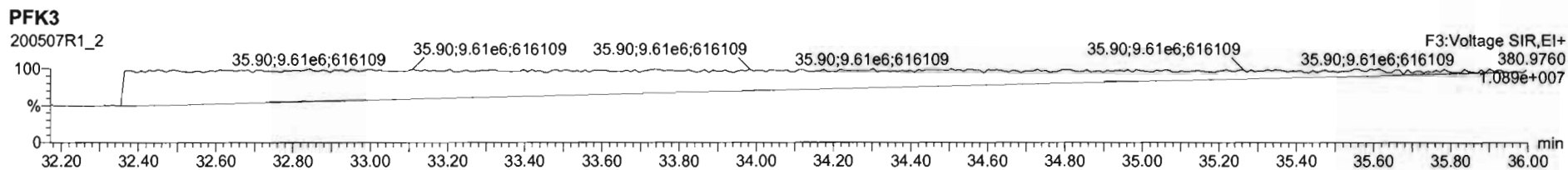
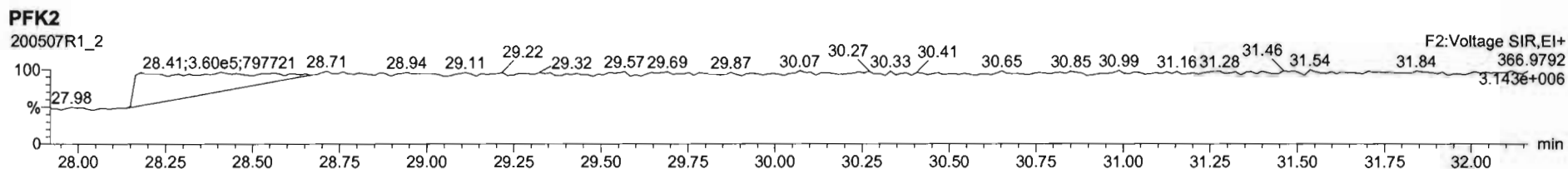
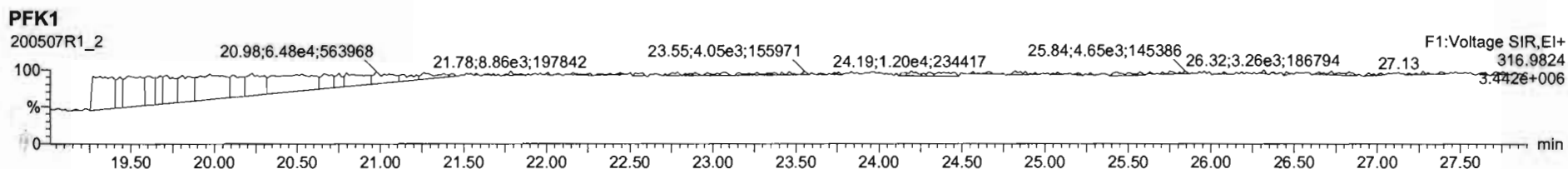


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Dataset: U:\VG12.PRO\Results\200507R1\200507R1-6.qld

Last Altered: Friday, May 08, 2020 11:04:32 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 11:08:37 AM Pacific Daylight Time

GRB 05/08/2020

CT 05/14/2020

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

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

Name: 200507R1_6, Date: 07-May-2020, Time: 12:02:57, ID: 2000952-01 PDI-158SC-A-04-05-200423 11, Description: PDI-158SC-A-04-05-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.003	25.991		1.001				0.0954	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.003	31.101		1.001				0.103	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.003	34.462		1.000				0.106	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.003	34.558		1.000				0.107	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.003	34.845		1.000				0.125	
6	6 1,2,3,4,6,7,8-HpCDD	1.32e3	0.94	NO	0.898	10.003	38.340	38.34	1.000	1.000	1.0055		0.288	1.01
7	7 OCDD	8.26e3	0.87	NO	0.933	10.003	41.322	41.33	1.000	1.000	8.4324		0.186	8.43
8	8 2,3,7,8-TCDF			NO	0.787	10.003	25.042		1.001				0.0639	
9	9 1,2,3,7,8-PeCDF	3.43e2	1.27	YES	0.910	10.003	29.788	29.78	1.001	1.001	0.084044		0.0369	0.0774
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.003	30.789		1.001				0.0756	
11	11 1,2,3,4,7,8-HxCDF	3.31e2	1.44	YES	0.878	10.003	33.600	33.59	1.000	1.000	0.14422		0.0399	0.132
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.003	33.727		1.000				0.0674	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.003	34.316		1.001				0.0769	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.003	35.176		1.000				0.131	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.003	36.939		1.001				0.104	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.003	38.915		1.000				0.164	
17	17 OCDF	5.70e2	0.83	NO	0.802	10.003	41.503	41.51	1.000	1.000	0.66448		0.185	0.664
18	18 13C-2,3,7,8-TCDD	8.05e5	0.79	NO	1.16	10.003	25.954	25.96	1.026	1.027	197.48	98.8	0.373	
19	19 13C-1,2,3,7,8-PeCDD	5.82e5	0.62	NO	0.847	10.003	31.031	31.08	1.227	1.229	195.45	97.7	0.490	
20	20 13C-1,2,3,4,7,8-HxCDD	3.87e5	1.29	NO	0.750	10.003	34.463	34.45	1.014	1.014	194.54	97.3	1.09	
21	21 13C-1,2,3,6,7,8-HxCDD	5.08e5	1.22	NO	0.963	10.003	34.575	34.56	1.017	1.017	198.82	99.4	0.848	
22	22 13C-1,2,3,7,8,9-HxCDD	4.34e5	1.18	NO	0.838	10.003	34.844	34.83	1.025	1.025	195.45	97.8	0.975	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.93e5	1.04	NO	0.641	10.003	38.331	38.33	1.128	1.128	172.37	86.2	0.818	
24	24 13C-OCDD	4.19e5	0.89	NO	0.586	10.003	41.321	41.32	1.216	1.216	269.75	67.5	0.606	
25	25 13C-2,3,7,8-TCDF	1.03e6	0.76	NO	1.03	10.003	25.015	25.02	0.989	0.989	192.32	96.2	0.578	
26	26 13C-1,2,3,7,8-PeCDF	8.96e5	1.56	NO	0.845	10.003	29.724	29.77	1.176	1.177	203.90	102	0.822	
27	27 13C-2,3,4,7,8-PeCDF	8.51e5	1.58	NO	0.814	10.003	30.712	30.76	1.215	1.216	201.14	101	0.854	
28	28 13C-1,2,3,4,7,8-HxCDF	5.22e5	0.51	NO	1.00	10.003	33.603	33.60	0.989	0.989	195.93	98.0	0.826	
29	29 13C-1,2,3,6,7,8-HxCDF	6.42e5	0.50	NO	1.14	10.003	33.726	33.72	0.992	0.992	213.00	107	0.730	
30	30 13C-2,3,4,6,7,8-HxCDF	5.28e5	0.50	NO	1.02	10.003	34.293	34.28	1.009	1.009	194.89	97.5	0.811	
31	31 13C-1,2,3,7,8,9-HxCDF	4.17e5	0.50	NO	0.845	10.003	35.184	35.18	1.035	1.035	186.31	93.2	0.982	

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-6.qld

Last Altered: Friday, May 08, 2020 11:04:32 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 11:08:37 AM Pacific Daylight Time

Name: 200507R1_6, Date: 07-May-2020, Time: 12:02:57, ID: 2000952-01 PDI-158SC-A-04-05-200423 11, Description: PDI-158SC-A-04-05-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.84e5	0.42	NO	0.771	10.003	36.913	36.90	1.086	1.086	187.82	93.9	0.953	
33	13C-1,2,3,4,7,8,9-HpCDF	2.02e5	0.41	NO	0.482	10.003	38.922	38.92	1.145	1.145	158.04	79.0	1.52	
34	13C-OCDF	4.27e5	0.86	NO	0.669	10.003	41.491	41.50	1.221	1.221	241.06	60.3	0.535	
35	37Cl-2,3,7,8-TCDD	3.04e5			1.10	10.003	25.984	25.99	1.028	1.028	78.661	98.4	0.0775	
36	13C-1,2,3,4-TCDD	7.03e5	0.81	NO	1.00	10.003	25.350	25.29	1.000	1.000	199.95	100	0.433	
37	13C-1,2,3,4-TCDF	1.04e6	0.79	NO	1.00	10.003	23.560	23.49	1.000	1.000	199.95	100	0.598	
38	13C-1,2,3,4,6,9-HxCDF	5.30e5	0.51	NO	1.00	10.003	34.000	33.98	1.000	1.000	199.95	100	0.830	
39	Total Tetra-Dioxins				0.947	10.003	24.620		0.000		0.18724		0.0954	0.187
40	Total Penta-Dioxins				0.942	10.003	29.960		0.000		0.00000		0.0354	0.146
41	Total Hexa-Dioxins				0.915	10.003	33.635		0.000		1.1826		0.117	1.18
42	Total Hepta-Dioxins				0.898	10.003	37.640		0.000		2.7409		0.288	2.74
43	Total Tetra-Furans				0.787	10.003	23.610		0.000				0.0284	
44	1st Func. Penta-Furans				0.910	10.003	27.090		0.000				0.0203	
45	Total Penta-Furans				0.910	10.003	29.275		0.000		0.00000		0.0363	0.0774
46	Total Hexa-Furans				0.922	10.003	33.555		0.000		0.00000		0.0438	0.132
47	Total Hepta-Furans				0.871	10.003	37.835		0.000				0.0623	

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-6.qld
 Last Altered: Friday, May 08, 2020 11:04:32 AM Pacific Daylight Time
 Printed: Friday, May 08, 2020 11:08:37 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
 Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200507R1_6, Date: 07-May-2020, Time: 12:02:57, ID: 2000952-01 PDI-158SC-A-04-05-200423 11, Description: PDI-158SC-A-04-05-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.67	6.006e3	4.614e3	3.032e2	4.109e2	0.74	NO	7.141e2	0.18724	0.18724	0.0954

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.34	3.340e3	5.520e3	1.236e2	1.700e2	0.73	YES	0.000e0	0.00000	0.10102	0.0354
2	Total Penta-Dioxins	29.43	1.150e3	3.361e3	4.784e1	1.067e2	0.45	YES	0.000e0	0.00000	0.045114	0.0354

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	1.641e4	1.479e4	9.071e2	7.770e2	1.17	NO	1.684e3	0.83136	0.83136	0.117
2	Total Hexa-Dioxins	33.81	6.436e3	4.656e3	3.954e2	3.161e2	1.25	NO	7.115e2	0.35122	0.35122	0.117

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	1.507e4	1.637e4	1.154e3	1.130e3	1.02	NO	2.285e3	1.7353	1.7353	0.288
2	1,2,3,4,6,7,8-HpCDD	38.34	1.020e4	9.645e3	6.410e2	6.830e2	0.94	NO	1.324e3	1.0055	1.0055	0.288

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\200507R1\200507R1-6.qld

Last Altered: Friday, May 08, 2020 11:04:32 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 11:08:37 AM Pacific Daylight Time

Name: 200507R1_6, Date: 07-May-2020, Time: 12:02:57, ID: 2000952-01 PDI-158SC-A-04-05-200423 11, Description: PDI-158SC-A-04-05-200423

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8-PeCDF	29.78	4.511e3	4.479e3	1.918e2	1.510e2	1.27	YES	3.428e2	0.00000	0.077372	0.0369

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,7,8-HxCDF	33.59	5.649e3	3.445e3	1.952e2	1.355e2	1.44	YES	3.307e2	0.00000	0.13240	0.0399

Hepta-Furans

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

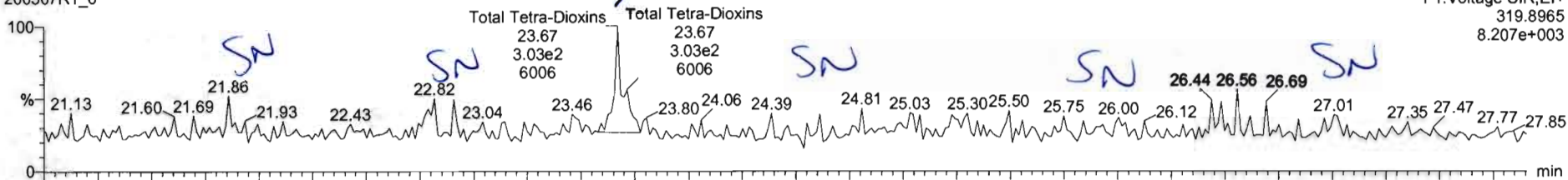
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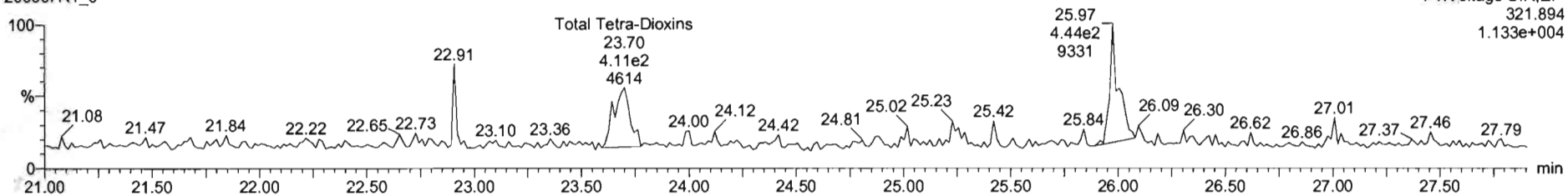
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2,3,7,8-TCDD

200507R1_6

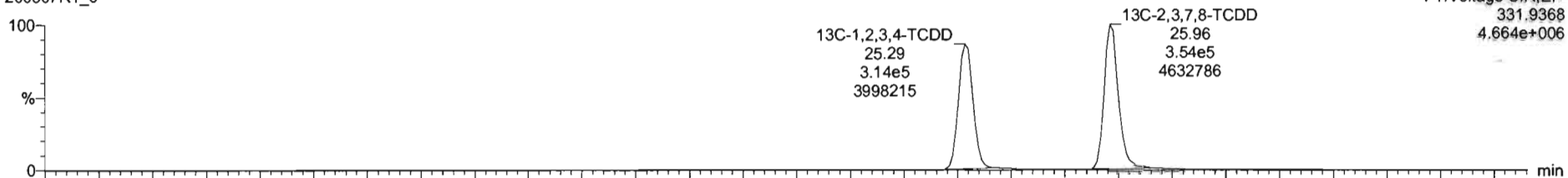


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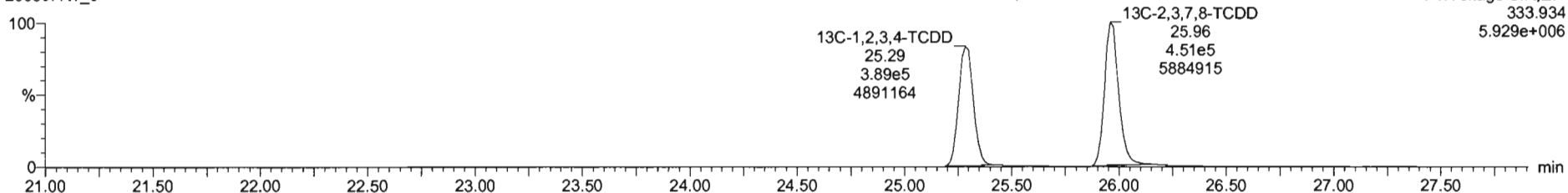


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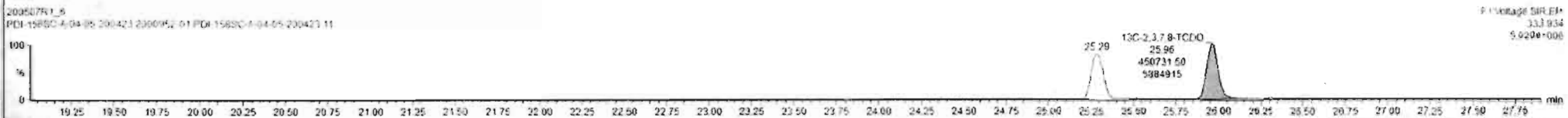
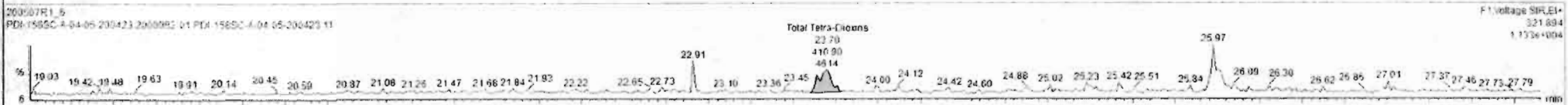
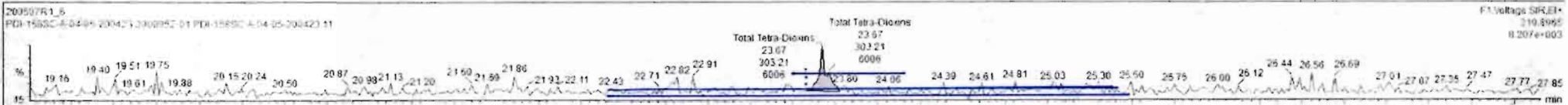


200507R1_6



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.003			0.187		0.0954	0.187
40 Total Penta-Dioxins				0.9425	10.003					0.0354	
41 Total Hexa-Dioxins				0.9145	10.003			0.852		0.117	0.852

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	23.67	0.03262	4.109e2	0.74	NO	0.18724	0.18724



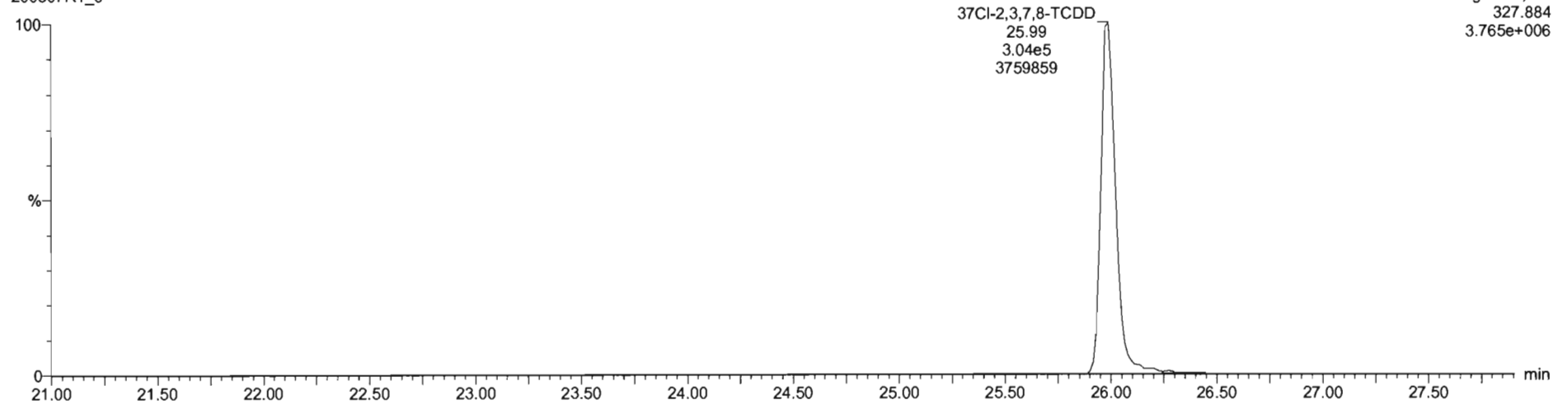
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

Name: 200507R1_6, Date: 07-May-2020, Time: 12:02:57, ID: 2000952-01 PDI-158SC-A-04-05-200423 11, Description: PDI-158SC-A-04-05-200423

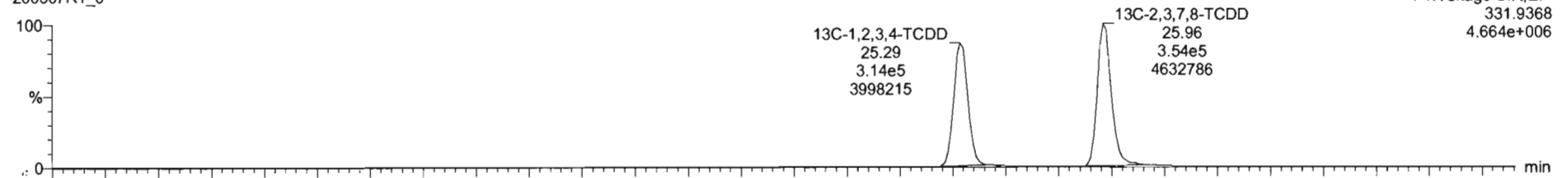
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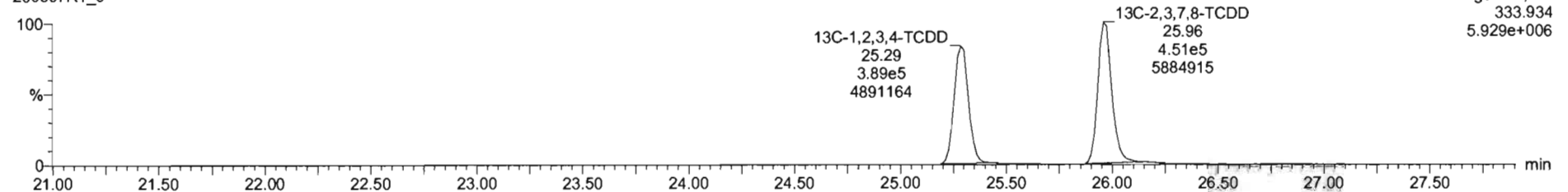


13C-1,2,3,4-TCDD

200507R1_6



200507R1_6



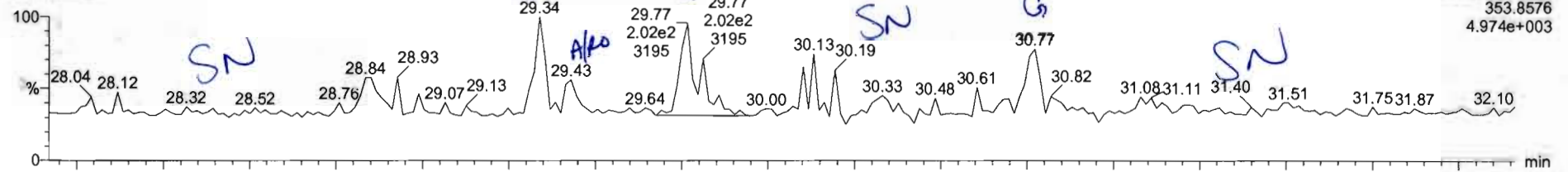
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Name: 200507R1_6, Date: 07-May-2020, Time: 12:02:57, ID: 2000952-01 PDI-158SC-A-04-05-200423 11, Description: PDI-158SC-A-04-05-200423

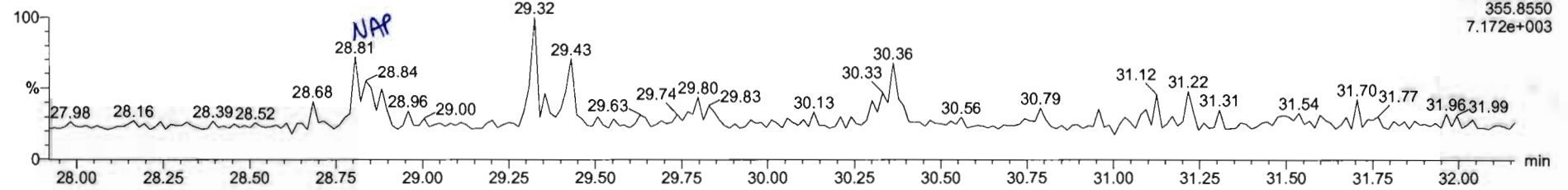
1,2,3,7,8-PeCDD

200507R1_6



F2: Voltage SIR, EI+
353.8576
4.974e+003

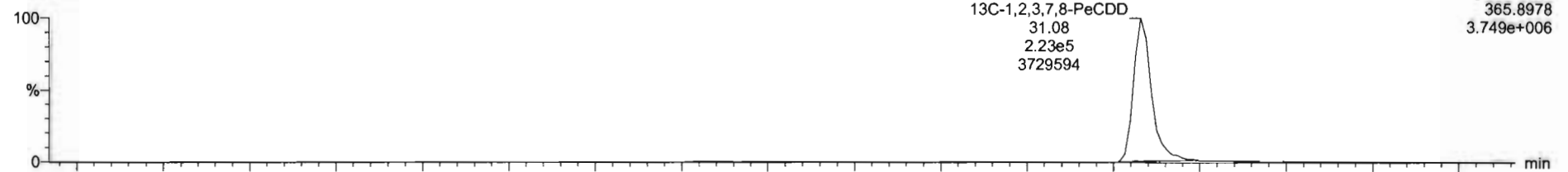
200507R1_6



F2: Voltage SIR, EI+
355.8550
7.172e+003

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

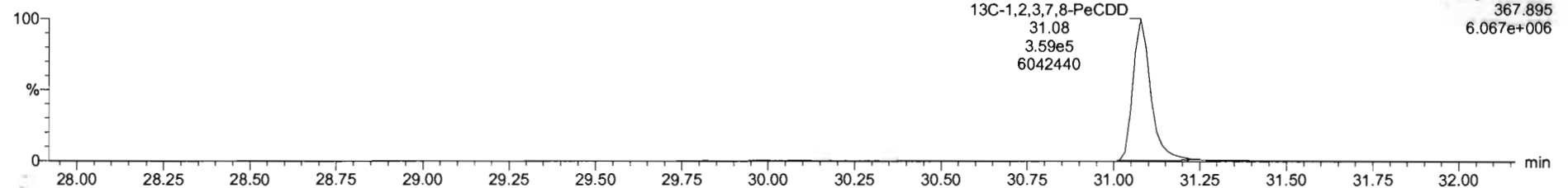
200507R1_6



13C-1,2,3,7,8-PeCDD
31.08
2.23e5
3729594

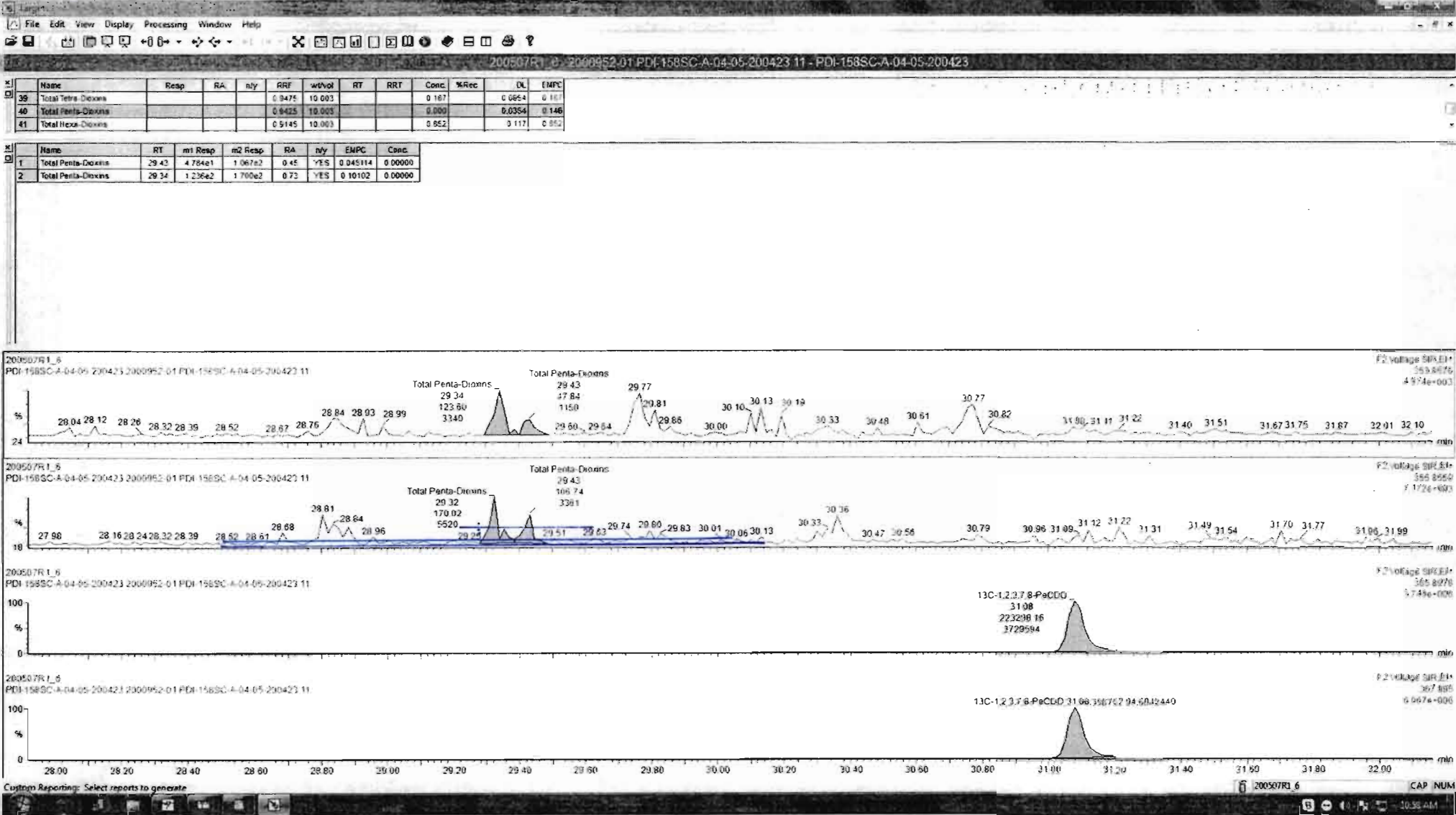
F2: Voltage SIR, EI+
365.8978
3.749e+006

200507R1_6



13C-1,2,3,7,8-PeCDD
31.08
3.59e5
6042440

F2: Voltage SIR, EI+
367.895
6.067e+006



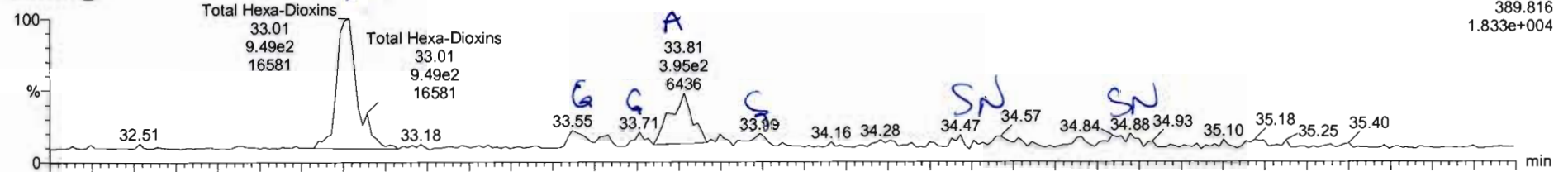
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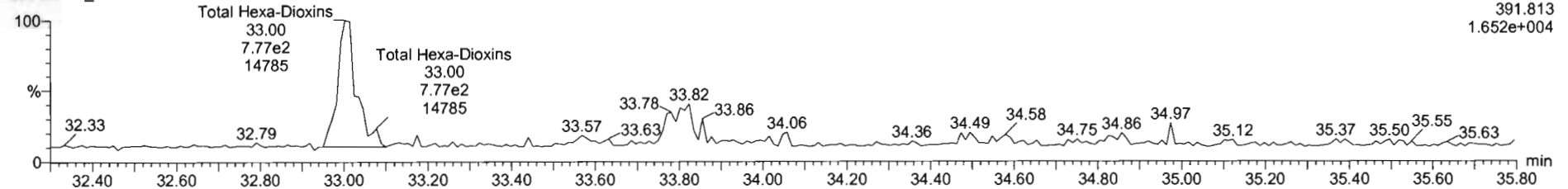
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1,2,3,4,7,8-HxCDD

200507R1_6

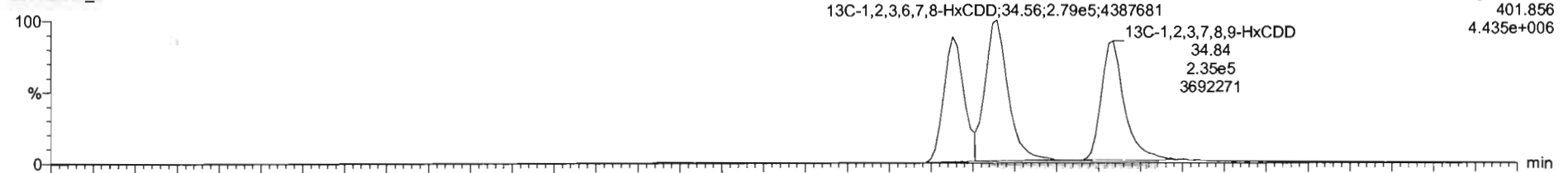


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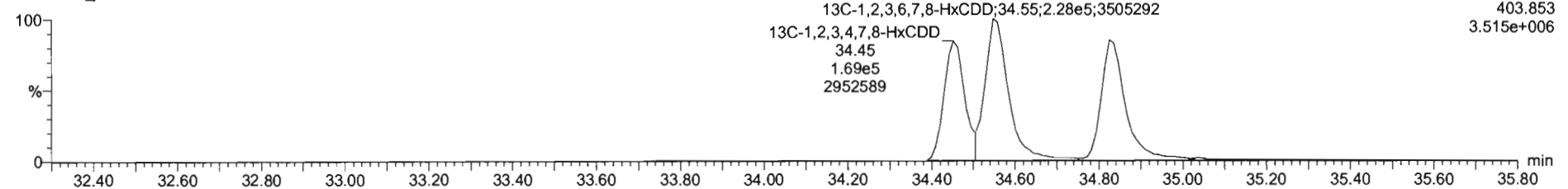


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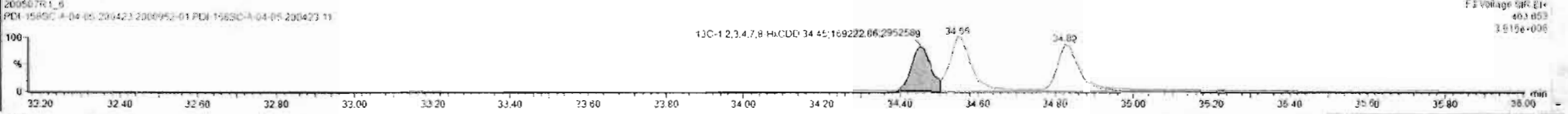
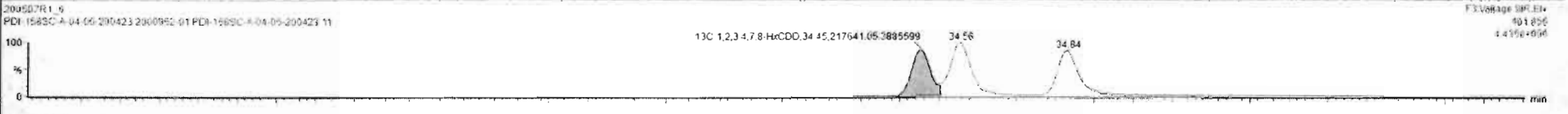
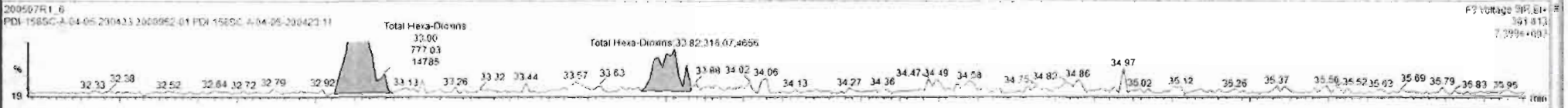
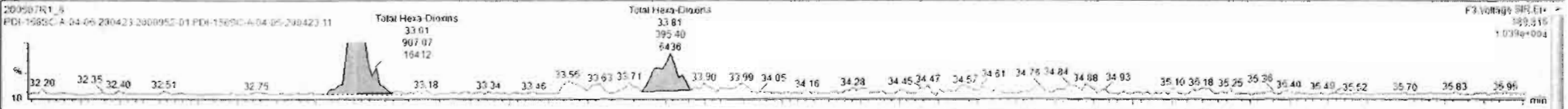


200507R1_6



Name	Rinap	RA	nly	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.003			0.187		0.0564	0.157
40 Total Penta-Dioxins				0.9425	10.003			0.000		0.0354	0.146
41 Total Hexa-Dioxins				0.9145	10.003			1.15		0.117	1.18

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	33.81	3.954e2	3.161e2	1.25	NO	0.35122	0.35122
2 Total Hexa-Dioxins	33.01	9.071e2	7.770e2	1.17	NO	0.83136	0.83136



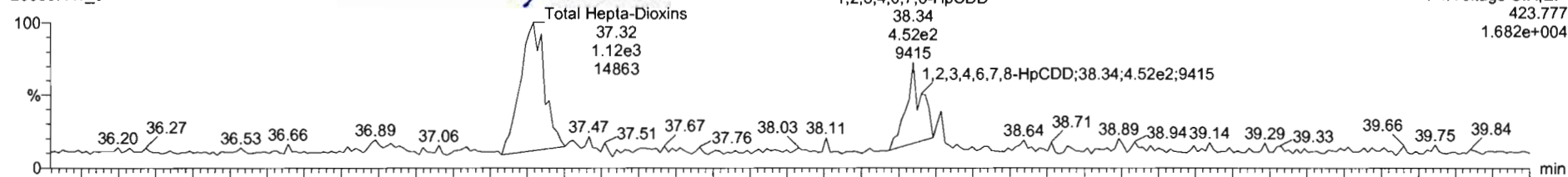
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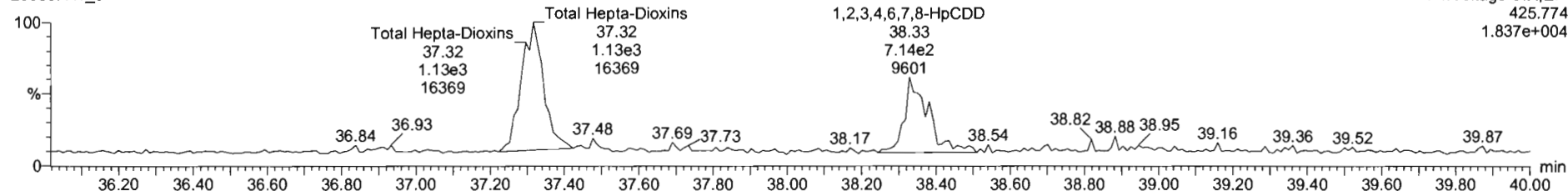
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1,2,3,4,6,7,8-HpCDD

200507R1_6

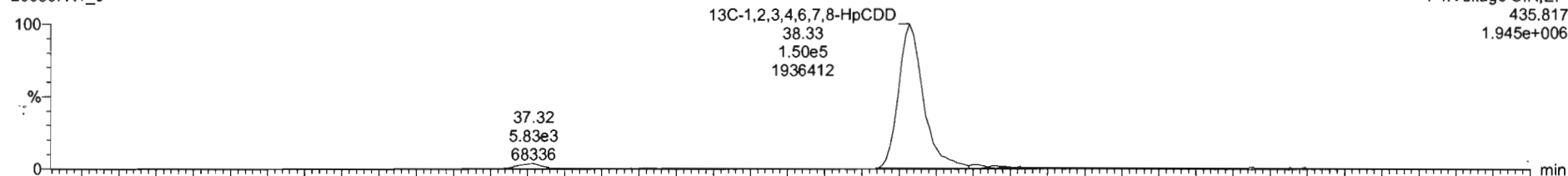


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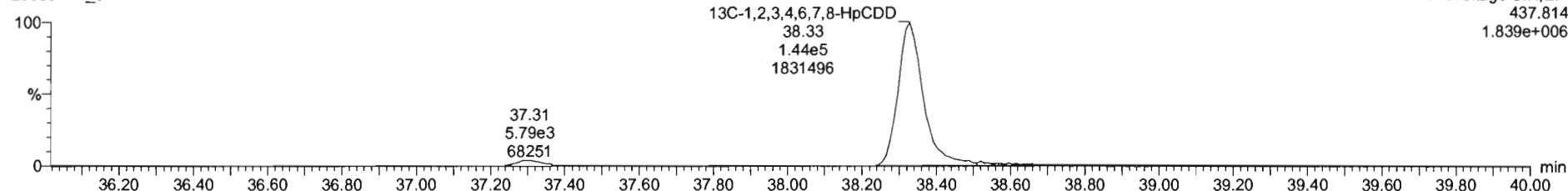


13C-1,2,3,4,6,7,8-HpCDD

200507R1_6

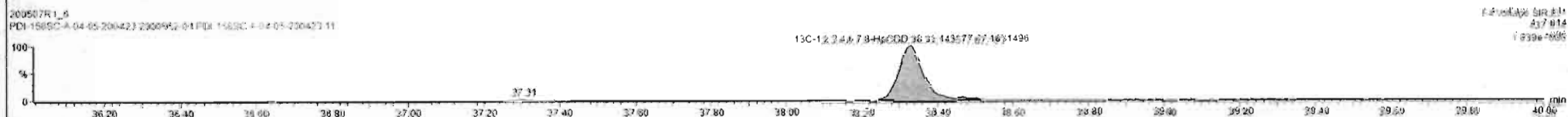
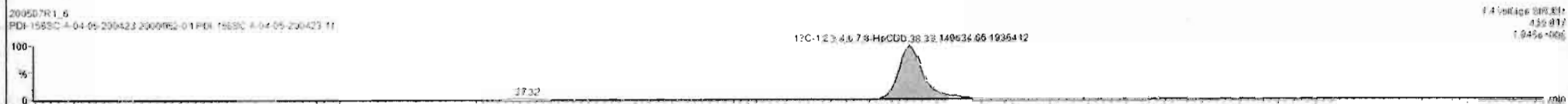
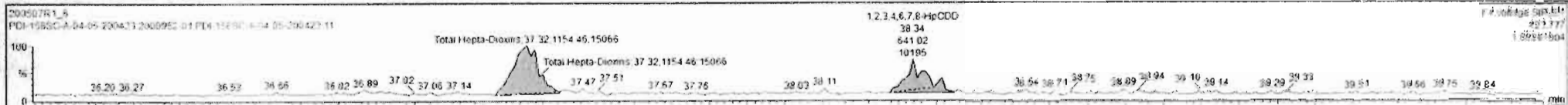


200507R1_6



Name	Resp	RA	nly	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.003			0.167	0.0954	0.167	
40 Total Penta-Dioxins				0.9425	10.003			0.000	0.0354	0.148	
41 Total Hexa-Dioxins				0.9145	10.003			1.18	0.117	1.15	

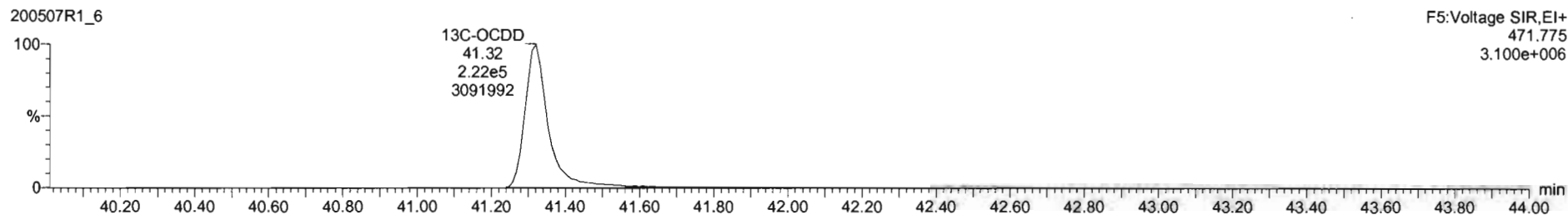
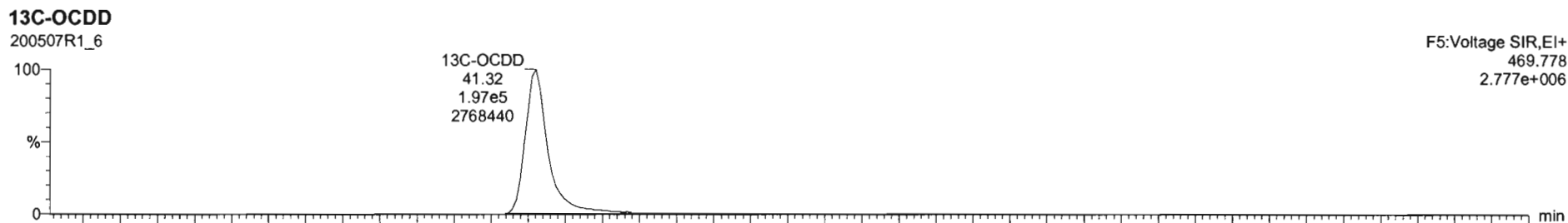
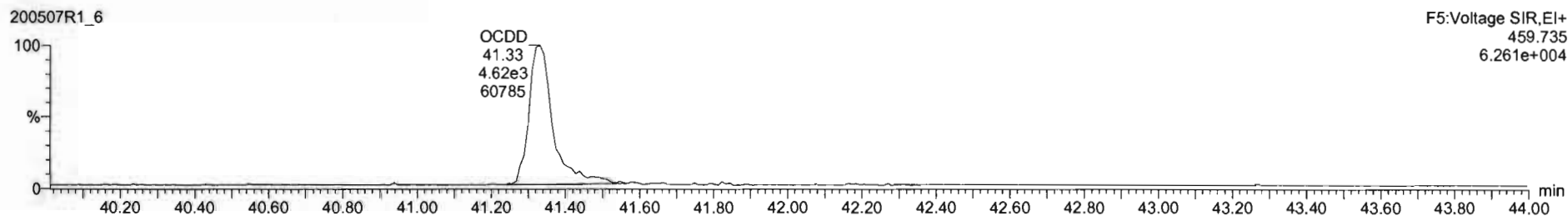
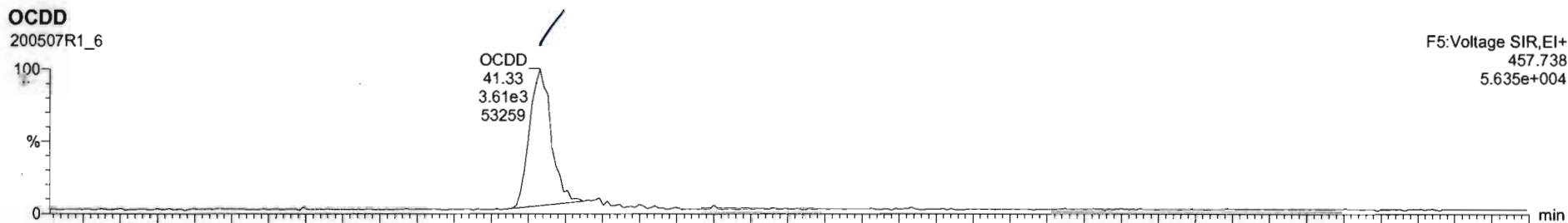
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hepta-Dioxins	37.32	1.15463	1.13063	1.02	NO	1.7353	1.7353
2 1,2,3,4,6,7,8-HpCDD	38.34	6.41062	6.83062	0.94	NO	1.0055	1.0055



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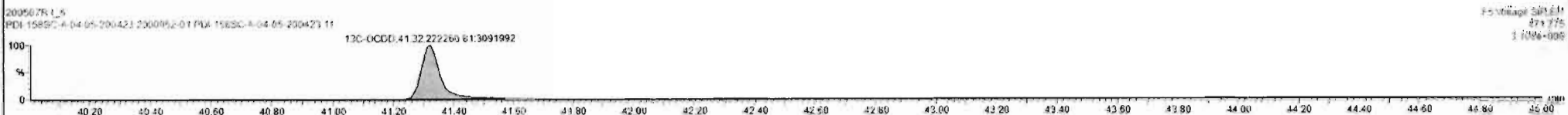
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Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Cone	MRec	DL	EMPC
7 OCDO	5.28e3	0.87	NO	0.9335	10.003	41.32	1.000	6.43		0.136	3.43
8 2,3,7,8-TCDF			NO	0.7871	10.003					0.0630	
9 1,2,3,7,8-PeCDF			NO	0.5102	10.003					0.0829	

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



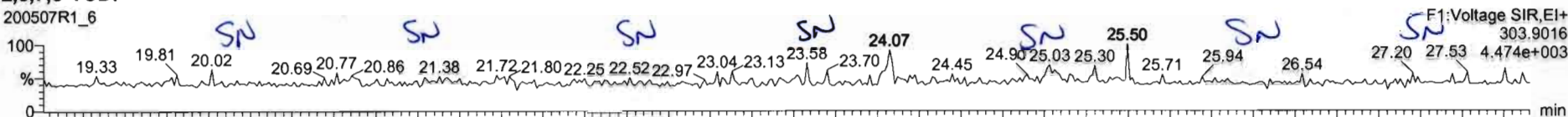
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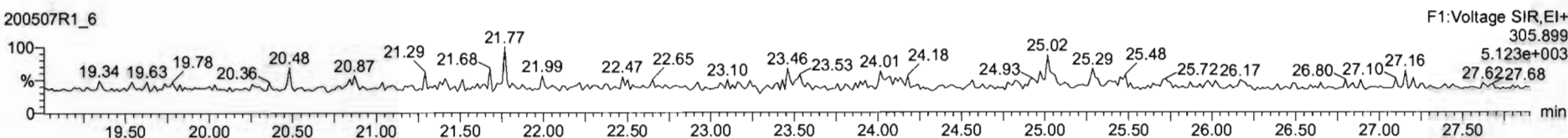
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2,3,7,8-TCDF

200507R1_6

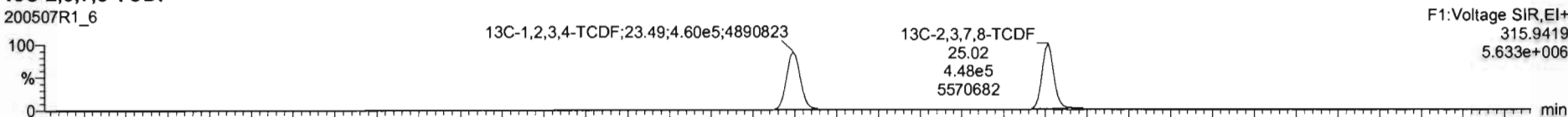


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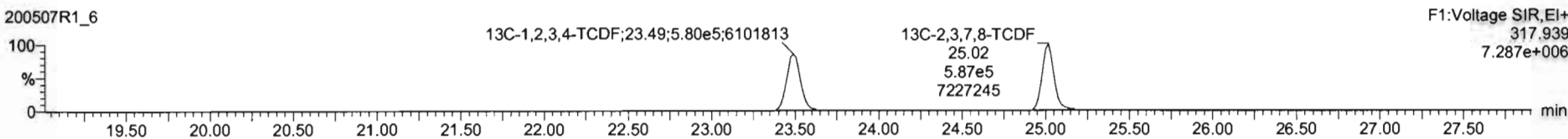


13C-2,3,7,8-TCDF

200507R1_6

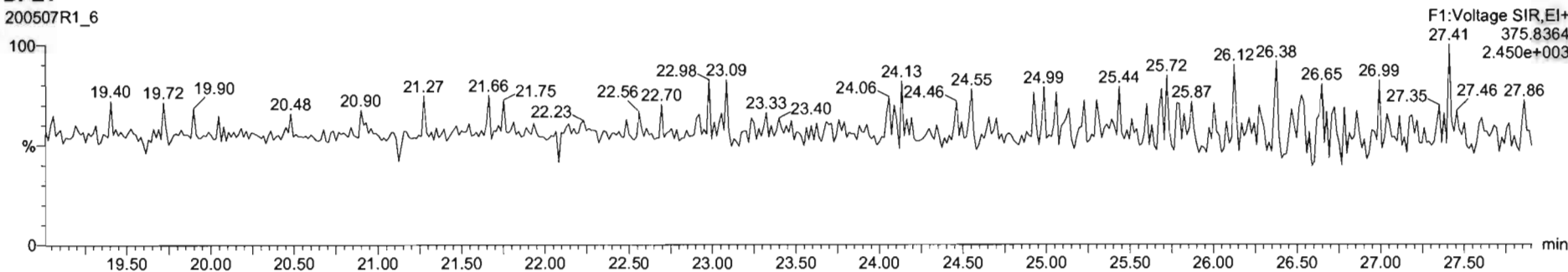


200507R1_6



DPE1

200507R1_6



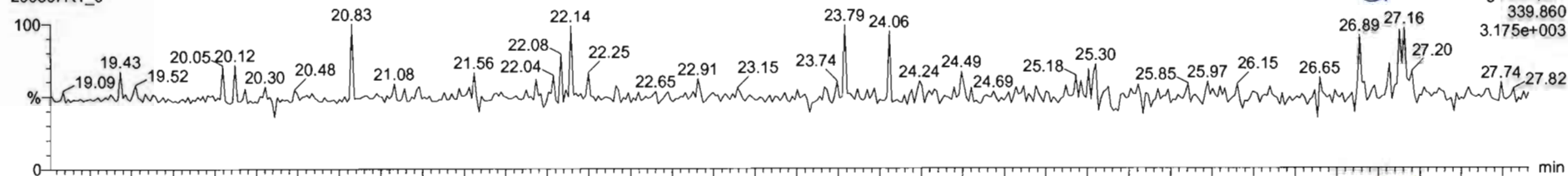
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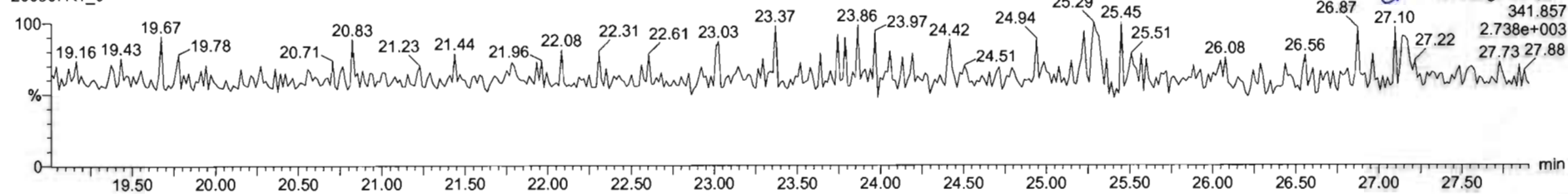
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1st Func. Penta-Furans

200507R1_6

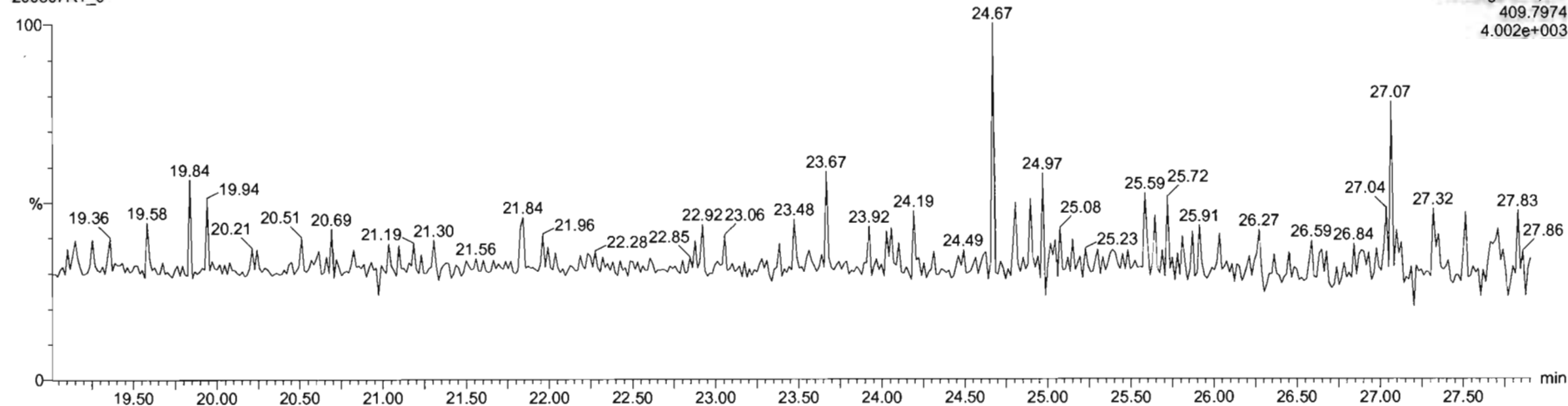


200507R1_6



DPE6

200507R1_6



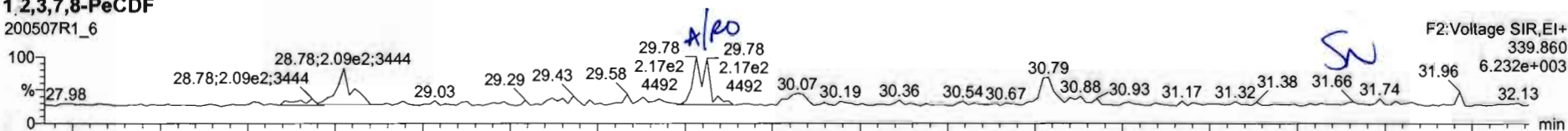
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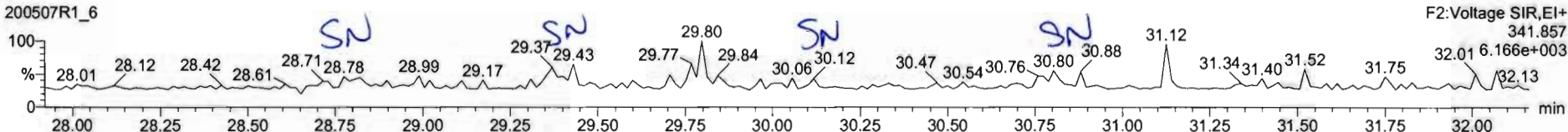
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1,2,3,7,8-PeCDF

200507R1_6

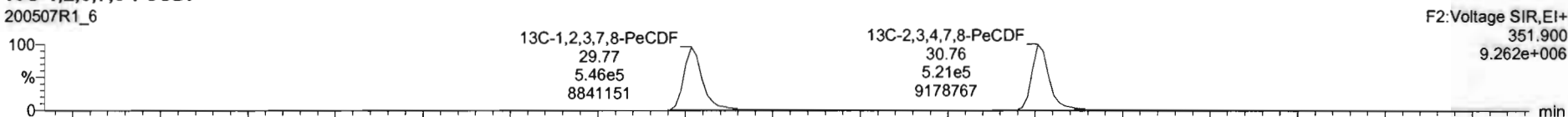


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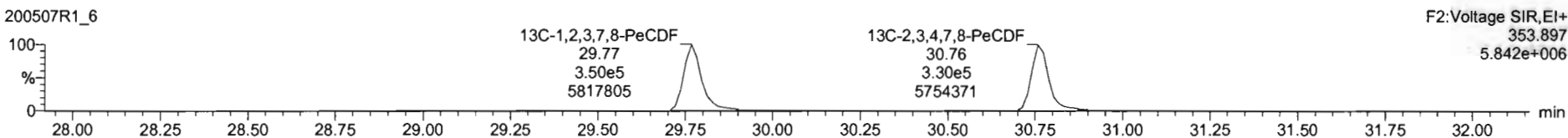


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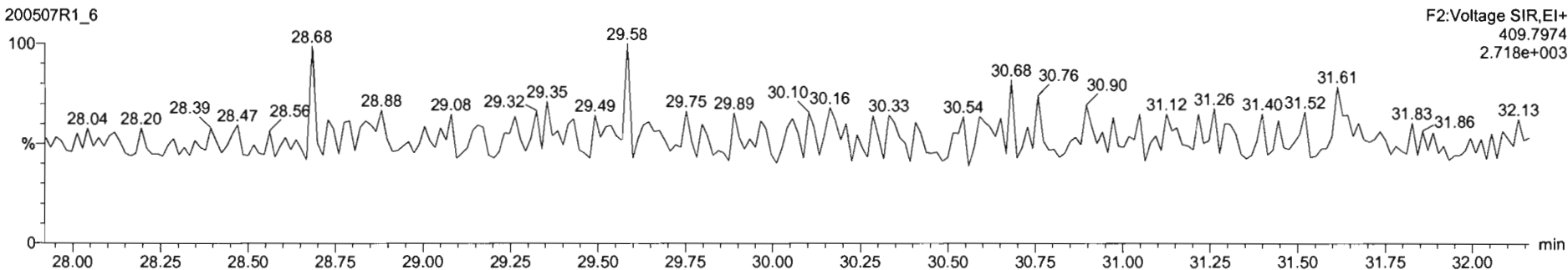


200507R1_6



DPE2

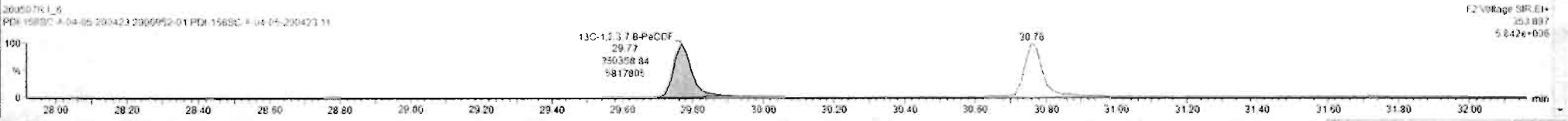
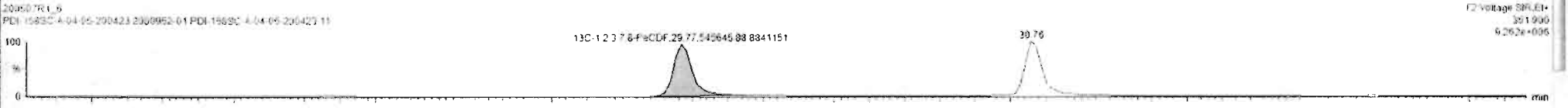
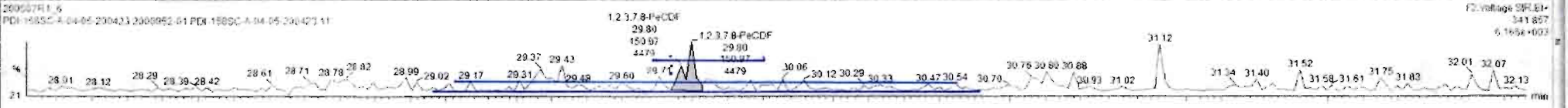
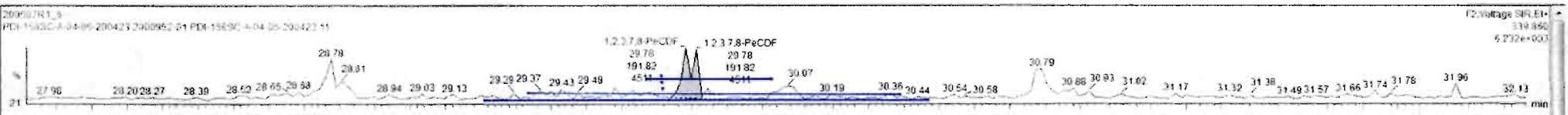
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200507R1_5 - 2000952-01-PDI-158SC-A-04-05-200423 11 - PDI-158SC-A-04-05-200423

Name	Resp	RA	nly	RRT	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.003			0.000	0.0363	0.0774	
46 Total Hexa-Furans				0.9217	10.003			0.000	0.0428	0.132	
47 Total Hepta-Furans				0.8712	10.003				0.0622		

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,7,8-PeCDF	29.78	1.916e2	1.510e2	1.27	YES	0.077372	0.00600



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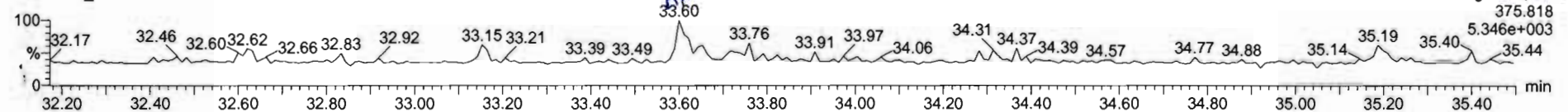
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1,2,3,4,7,8-HxCDF

200507R1_6

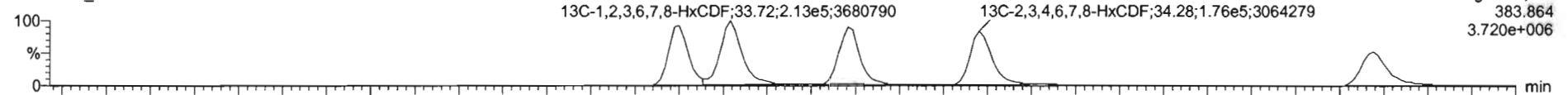


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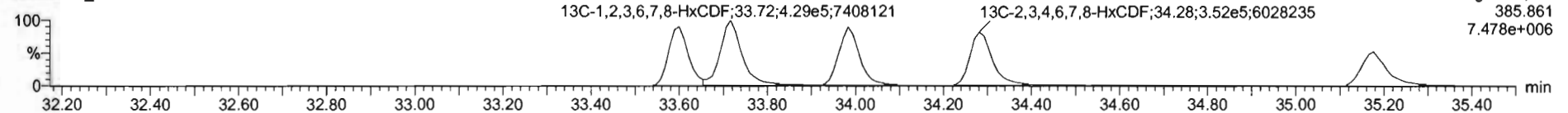


13C-1,2,3,4,7,8-HxCDF

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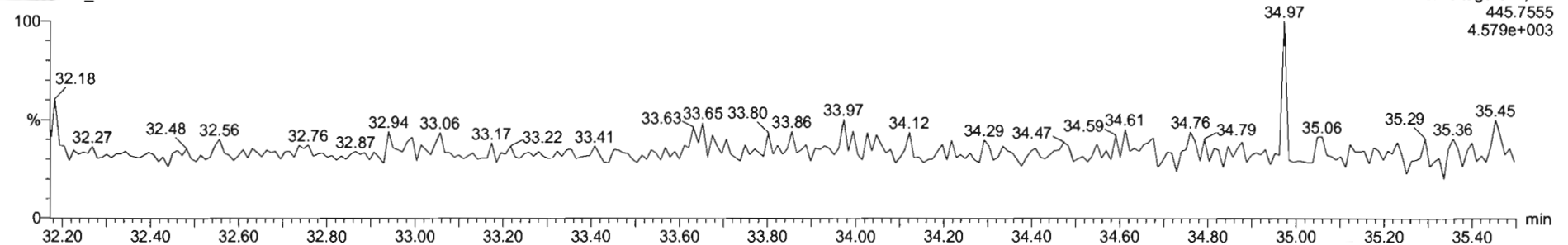


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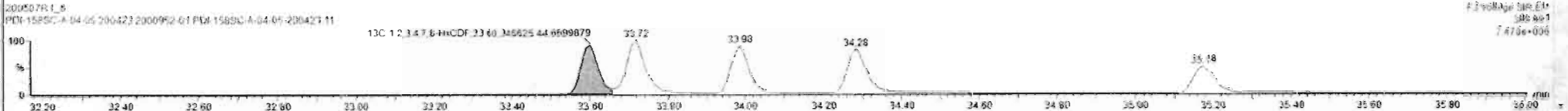
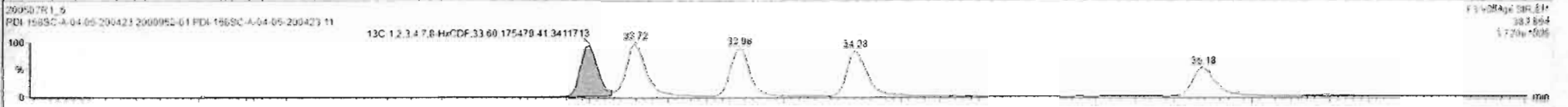
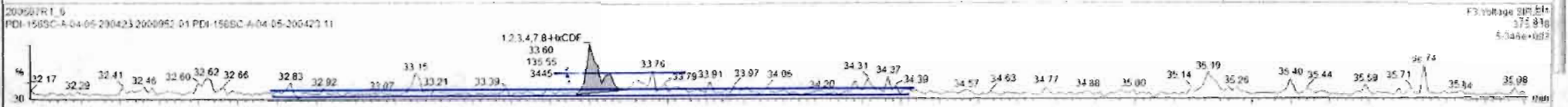
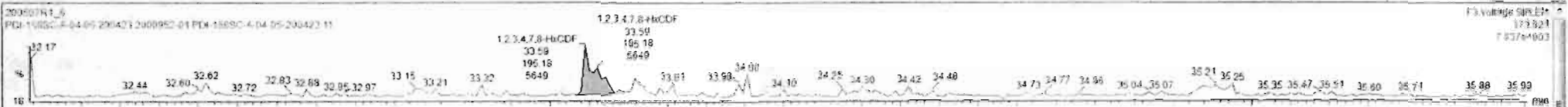
DPE3

200507R1_6



Name	Resp	RA	nly	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.003			0.000	0.0363	0.0774	
46 Total Hexa-Furans				0.8217	10.003			0.000	0.0438	0.132	
47 Total Hepta-Furans				0.8712	10.003						

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,7,8-HxCDF	33.59	1.952e2	1.355e2	1.44	*ES	0.13240	0.00000



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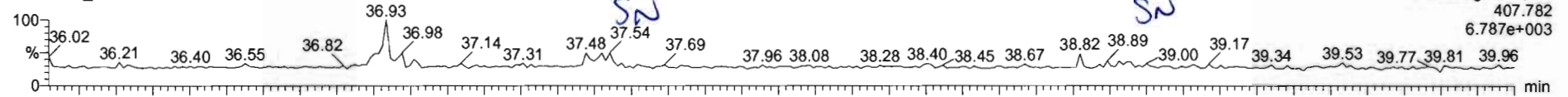
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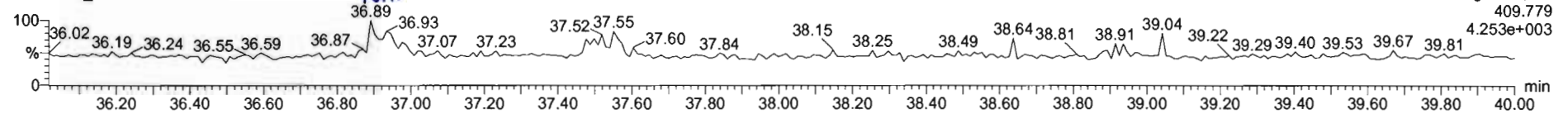
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1,2,3,4,6,7,8-HpCDF

200507R1_6

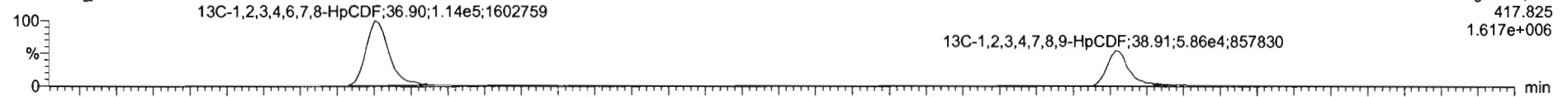


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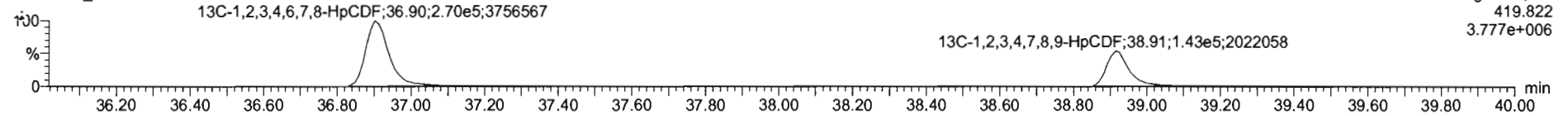


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200507R1_6

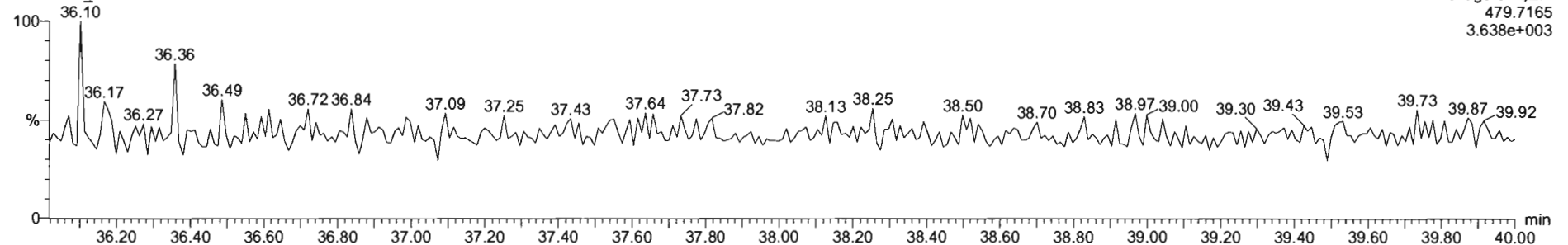


200507R1_6



DPE4

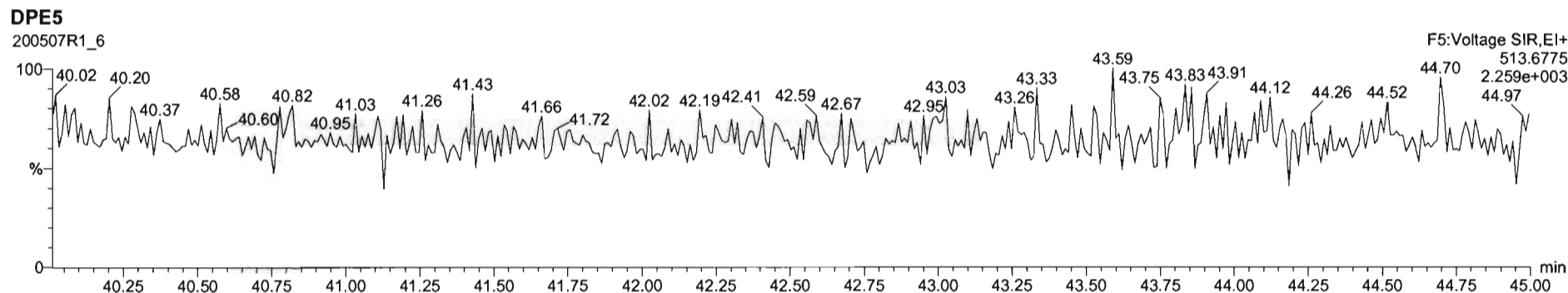
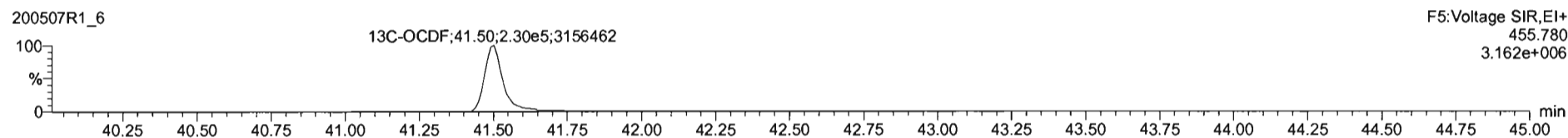
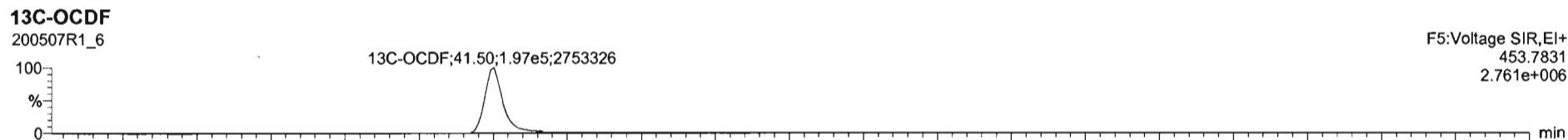
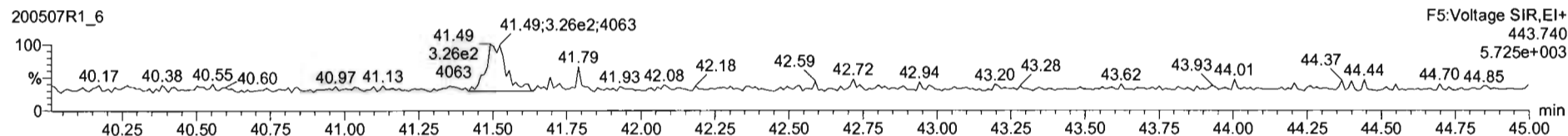
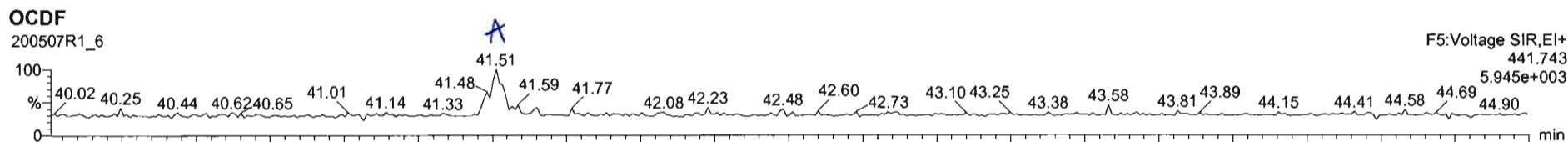
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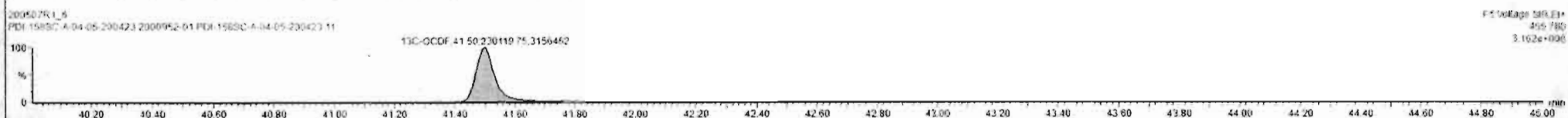
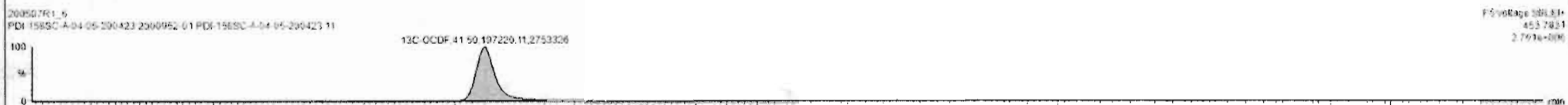
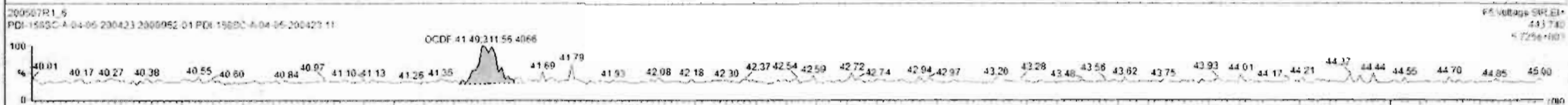
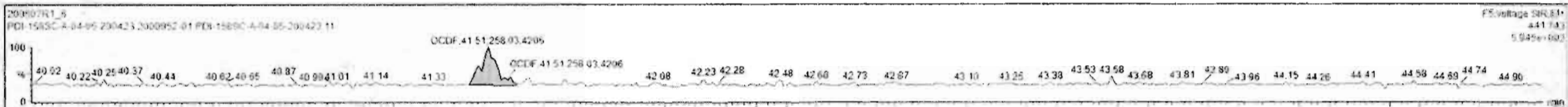
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Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
17 OCDF	5.70e2	0.83	NO	0.8021	10.003	41.5t	1.000	0.664		0.185	0.664
18 13C-2 1.7.8-TCDD	5.05e5	0.79	NO	1.1595	19.003	25.96	1.027	197	98.8	0.373	
18 13C-1 1.7.8-PeCDD	5.82e5	0.62	NO	0.8472	10.003	31.03	1.225	195	97.7	0.450	

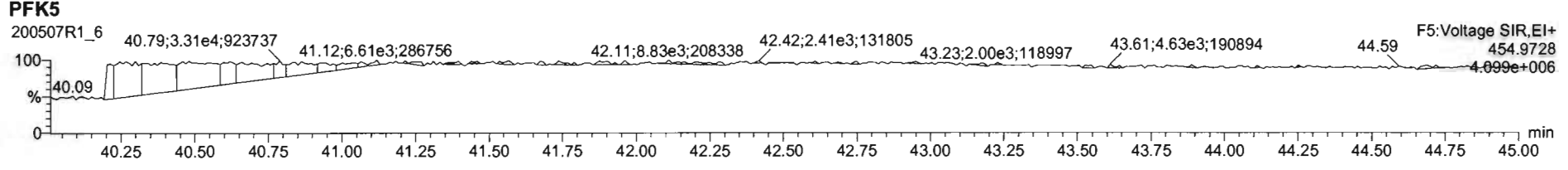
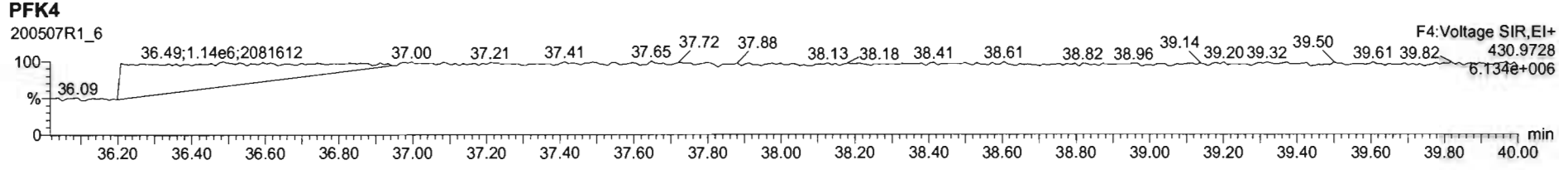
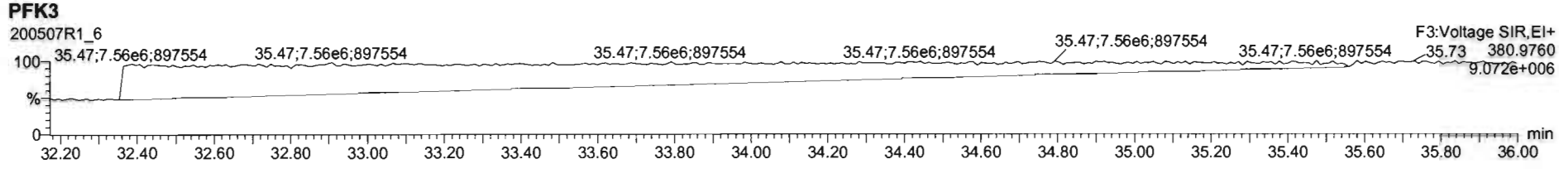
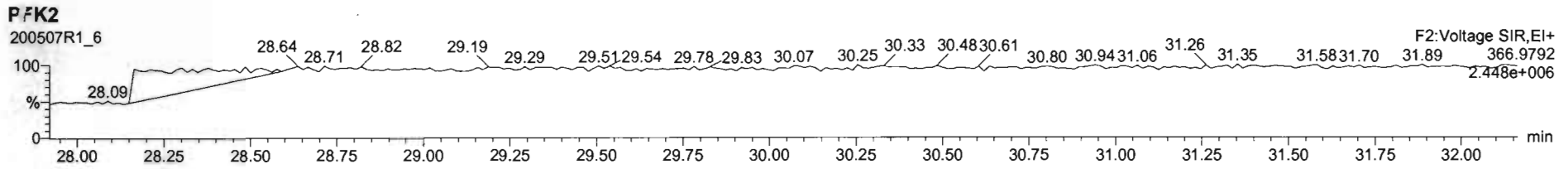
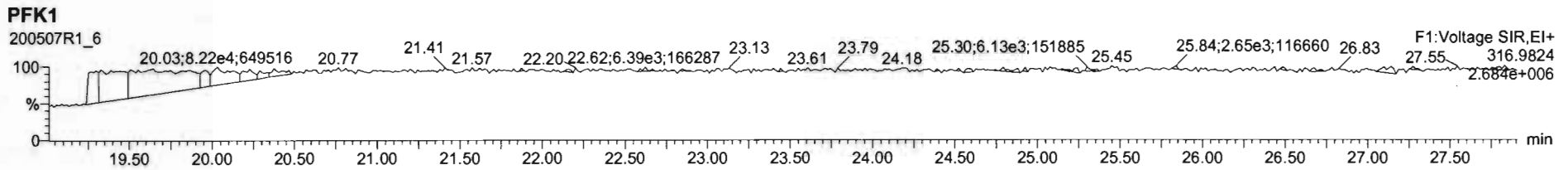
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1							



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 1:30:35 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

Name: 200507R1_6, Date: 07-May-2020, Time: 12:02:57, ID: 2000952-01 PDI-158SC-A-04-05-200423 11, Description: PDI-158SC-A-04-05-200423



Dataset: U:\VG12.PRO\Results\200507R1\200507R1-5.qld

Last Altered: Friday, May 08, 2020 10:47:33 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 10:49:29 AM Pacific Daylight Time

GRS 05/08/2020

(7 05) 14/2020

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

Name: 200507R1_5, Date: 07-May-2020, Time: 11:16:28, ID: B0D0331-DUP1 Duplicate 11.02, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.021	26.021		1.001				0.107	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.021	31.116		1.001				0.109	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.021	34.473		1.000				0.107	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.021	34.569		1.000				0.108	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.021	34.856		1.000				0.138	
6	6 1,2,3,4,6,7,8-HpCDD	1.31e3	0.96	NO	0.898	10.021	38.351	38.35	1.000	1.000	0.98787		0.187	0.988
7	7 OCDD	7.84e3	0.89	NO	0.933	10.021	41.332	41.34	1.000	1.000	8.3988		0.237	8.40
8	8 2,3,7,8-TCDF			NO	0.787	10.021	25.057		1.001				0.0976	
9	9 1,2,3,7,8-PeCDF	3.61e2	1.54	NO	0.910	10.021	29.803	29.80	1.001	1.001	0.086326		0.0252	0.0863
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.021	30.805		1.001				0.0535	
11	11 1,2,3,4,7,8-HxCDF	4.54e2	1.26	NO	0.878	10.021	33.611	33.62	1.000	1.000	0.19763		0.0542	0.198
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.021	33.738		1.000				0.0882	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.021	34.326		1.001				0.0977	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.021	35.187		1.000				0.172	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.021	36.960		1.001				0.160	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.021	38.936		1.000				0.242	
17	17 OCDF	6.77e2	1.00	NO	0.802	10.021	41.502	41.51	1.000	1.000	0.82001		0.269	0.820
18	18 13C-2,3,7,8-TCDD	8.56e5	0.77	NO	1.16	10.021	25.984	25.99	1.026	1.027	188.25	94.3	0.339	
19	19 13C-1,2,3,7,8-PeCDD	6.00e5	0.62	NO	0.847	10.021	31.068	31.09	1.227	1.228	180.70	90.5	0.579	
20	20 13C-1,2,3,4,7,8-HxCDD	3.95e5	1.27	NO	0.750	10.021	34.473	34.46	1.014	1.014	180.86	90.6	0.662	
21	21 13C-1,2,3,6,7,8-HxCDD	5.16e5	1.29	NO	0.963	10.021	34.585	34.57	1.017	1.017	183.95	92.2	0.515	
22	22 13C-1,2,3,7,8,9-HxCDD	4.23e5	1.27	NO	0.838	10.021	34.854	34.85	1.025	1.025	173.35	86.9	0.592	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.94e5	1.01	NO	0.641	10.021	38.342	38.34	1.128	1.128	157.68	79.0	0.711	
24	24 13C-OCDD	3.99e5	0.90	NO	0.586	10.021	41.333	41.33	1.216	1.216	234.03	58.6	0.584	
25	25 13C-2,3,7,8-TCDF	1.12e6	0.78	NO	1.03	10.021	25.045	25.03	0.989	0.989	187.34	93.9	0.619	
26	26 13C-1,2,3,7,8-PeCDF	9.17e5	1.55	NO	0.845	10.021	29.759	29.78	1.176	1.176	187.44	93.9	0.841	
27	27 13C-2,3,4,7,8-PeCDF	8.79e5	1.57	NO	0.814	10.021	30.749	30.77	1.215	1.216	186.63	93.5	0.873	
28	28 13C-1,2,3,4,7,8-HxCDF	5.22e5	0.51	NO	1.00	10.021	33.613	33.61	0.989	0.989	178.57	89.5	0.714	
29	29 13C-1,2,3,6,7,8-HxCDF	6.21e5	0.51	NO	1.14	10.021	33.736	33.73	0.992	0.992	187.79	94.1	0.632	
30	30 13C-2,3,4,6,7,8-HxCDF	5.32e5	0.51	NO	1.02	10.021	34.303	34.29	1.009	1.009	178.98	89.7	0.702	
31	31 13C-1,2,3,7,8,9-HxCDF	4.03e5	0.52	NO	0.845	10.021	35.194	35.19	1.035	1.035	164.12	82.2	0.850	

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-5.qld

Last Altered: Friday, May 08, 2020 10:47:33 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 10:49:29 AM Pacific Daylight Time

Name: 200507R1_5, Date: 07-May-2020, Time: 11:16:28, ID: B0D0331-DUP1 Duplicate 11.02, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.74e5	0.44	NO	0.771	10.021	36.924	36.92	1.086	1.086	166.79	83.6	0.809	
33	13C-1,2,3,4,7,8,9-HpCDF	2.05e5	0.44	NO	0.482	10.021	38.933	38.94	1.145	1.145	146.20	73.3	1.29	
34	13C-OCDF	4.11e5	0.87	NO	0.669	10.021	41.503	41.50	1.221	1.221	211.07	52.9	0.837	
35	37Cl-2,3,7,8-TCDD	3.32e5			1.10	10.021	26.015	26.00	1.028	1.027	77.205	96.7	0.0780	
36	13C-1,2,3,4-TCDD	7.83e5	0.80	NO	1.00	10.021	25.350	25.32	1.000	1.000	199.59	100	0.393	
37	13C-1,2,3,4-TCDF	1.16e6	0.79	NO	1.00	10.021	23.560	23.52	1.000	1.000	199.59	100	0.640	
38	13C-1,2,3,4,6,9-HxCDF	5.81e5	0.51	NO	1.00	10.021	34.000	33.99	1.000	1.000	199.59	100	0.718	
39	Total Tetra-Dioxins				0.947	10.021	24.620		0.000				0.0573	
40	Total Penta-Dioxins				0.942	10.021	29.960		0.000				0.0438	
41	Total Hexa-Dioxins				0.915	10.021	33.635		0.000		1.1249		0.122	1.12
42	Total Hepta-Dioxins				0.898	10.021	37.640		0.000		2.6841		0.187	2.68
43	Total Tetra-Furans				0.787	10.021	23.610		0.000				0.0396	
44	1st Func. Penta-Furans				0.910	10.021	27.090		0.000				0.0224	
45	Total Penta-Furans				0.910	10.021	29.275		0.000		0.086326		0.0251	0.0863
46	Total Hexa-Furans				0.922	10.021	33.555		0.000		0.19763		0.0623	0.198
47	Total Hepta-Furans				0.871	10.021	37.835		0.000				0.0780	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-5.qld

Last Altered: Friday, May 08, 2020 10:47:33 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 10:49:29 AM Pacific Daylight Time

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

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

Name: 200507R1_5, Date: 07-May-2020, Time: 11:16:28, ID: B0D0331-DUP1 Duplicate 11.02, 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	33.01	1.522e4	1.268e4	8.252e2	7.189e2	1.15	NO	1.544e3	0.75856	0.75856	0.122
2	Total Hexa-Dioxins	33.82	6.082e3	5.427e3	4.189e2	3.268e2	1.28	NO	7.457e2	0.36634	0.36634	0.122

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.34	1.221e4	1.673e4	1.075e3	1.171e3	0.92	NO	2.246e3	1.6962	1.6962	0.187
2	1,2,3,4,6,7,8-HpCDD	38.35	1.100e4	9.404e3	6.409e2	6.672e2	0.96	NO	1.308e3	0.98787	0.98787	0.187

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\200507R1\200507R1-5.qld

Last Altered: Friday, May 08, 2020 10:47:33 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 10:49:29 AM Pacific Daylight Time

Name: 200507R1_5, Date: 07-May-2020, Time: 11:16:28, ID: B0D0331-DUP1 Duplicate 11.02, Description: Duplicate

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8-PeCDF	29.80	4.170e3	2.933e3	2.189e2	1.420e2	1.54	NO	3.609e2	0.086326	0.086326	0.0252

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,7,8-HxCDF	33.62	6.724e3	3.965e3	2.527e2	2.014e2	1.26	NO	4.541e2	0.19763	0.19763	0.0542

Hepta-Furans

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

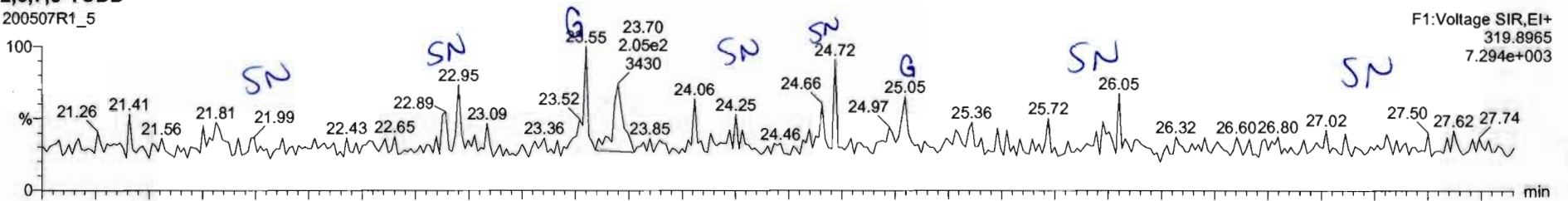
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

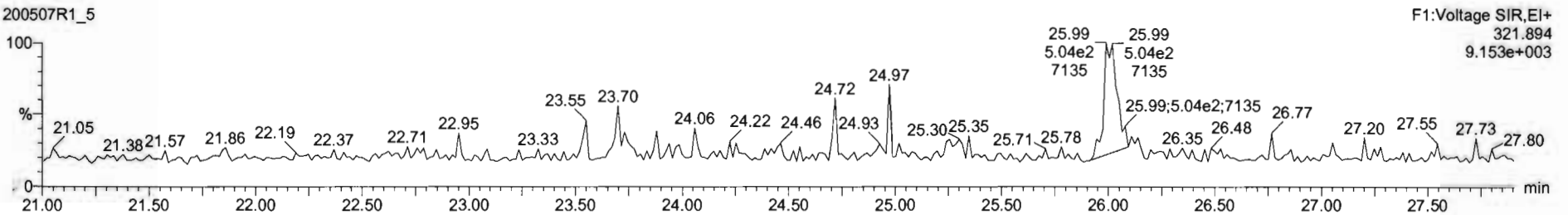
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2,3,7,8-TCDD

200507R1_5

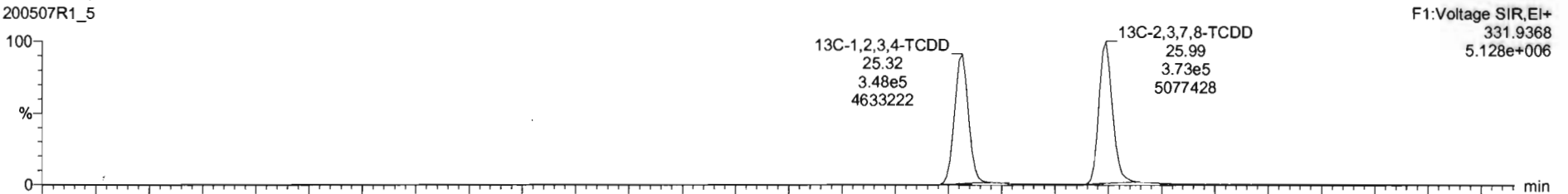


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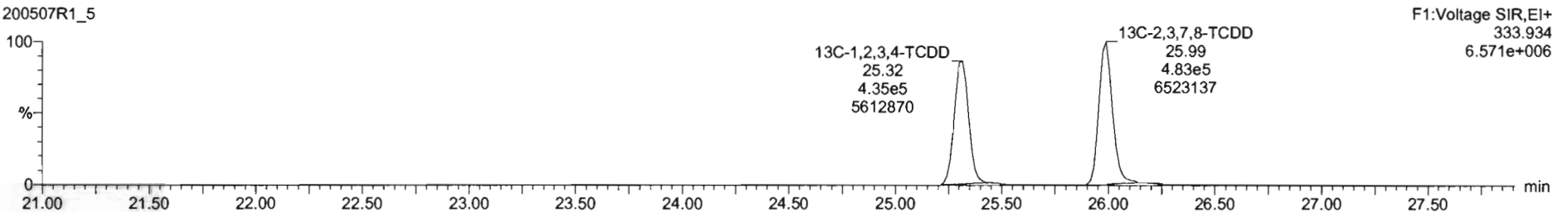


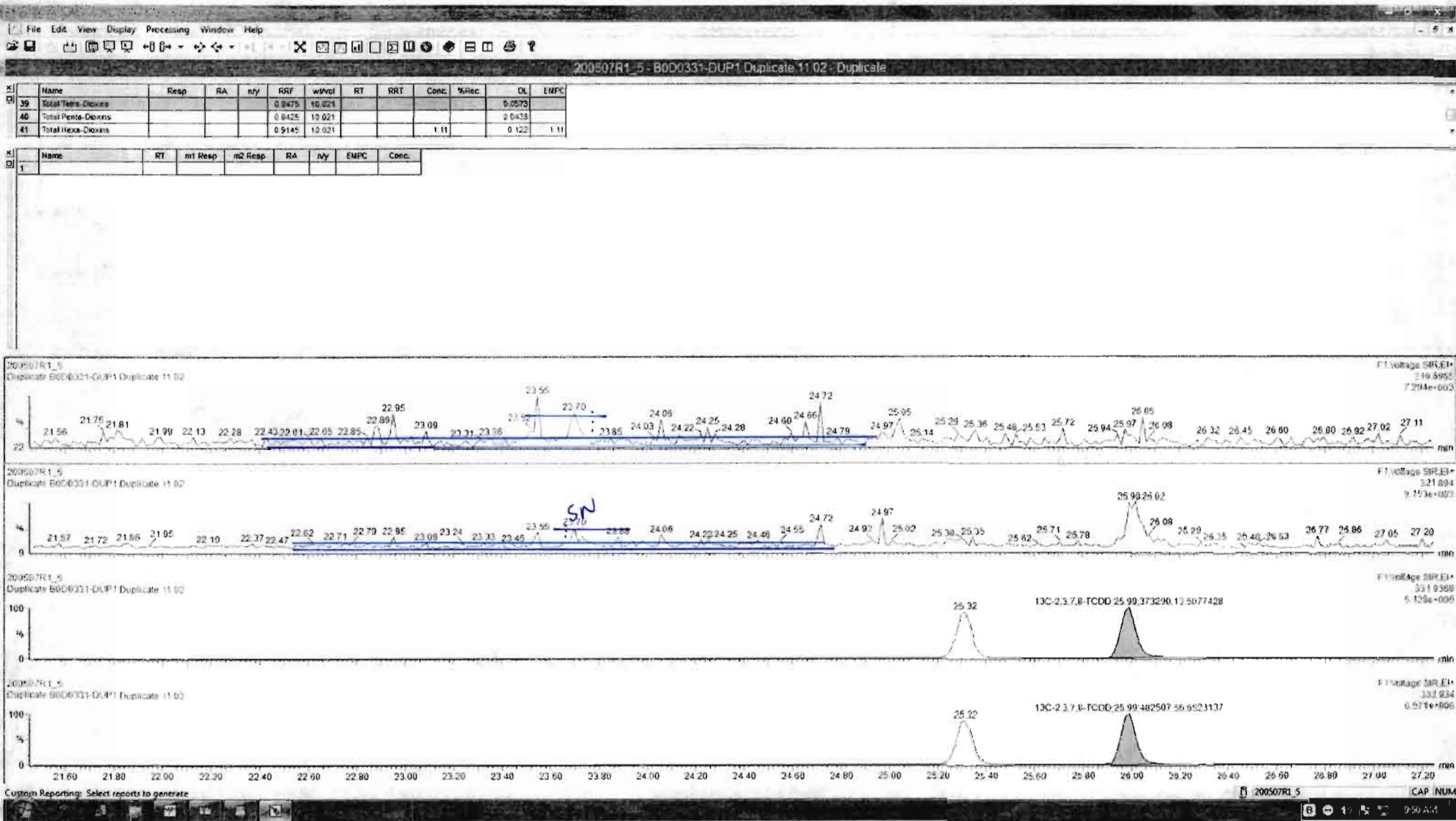
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200507R1_5



200507R1_5





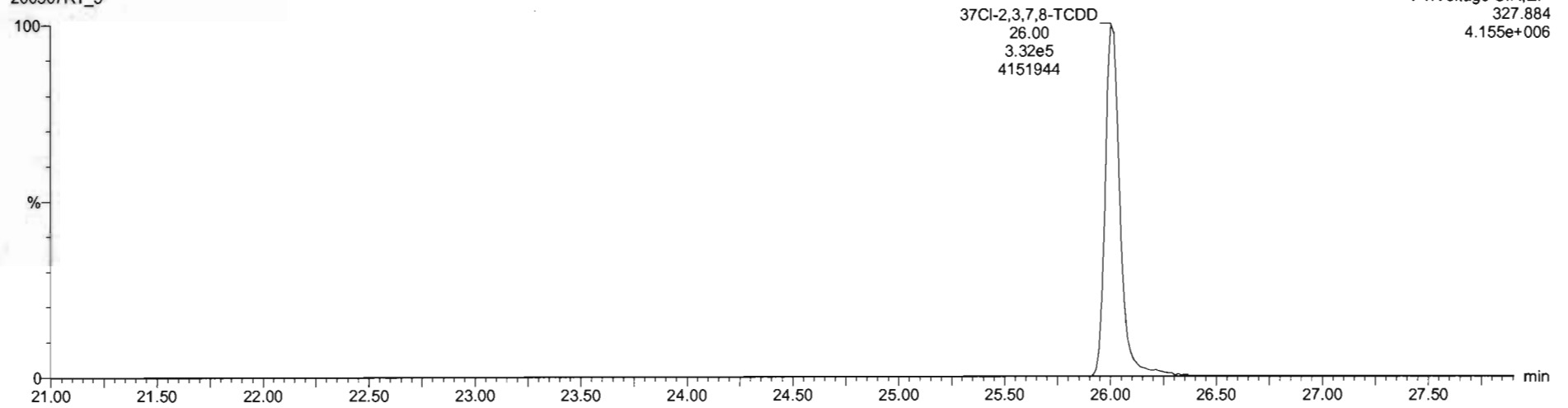
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

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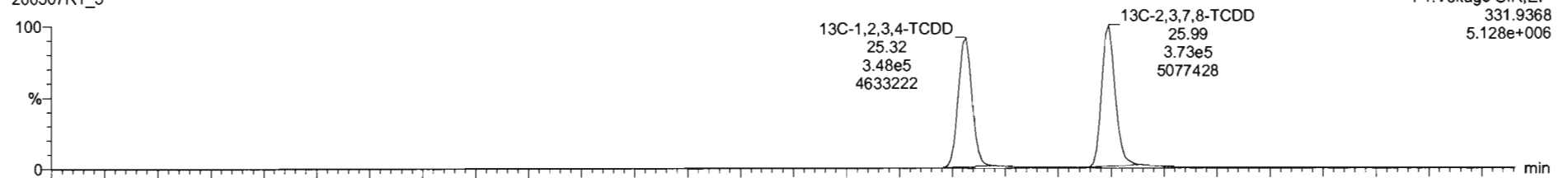
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200507R1_5

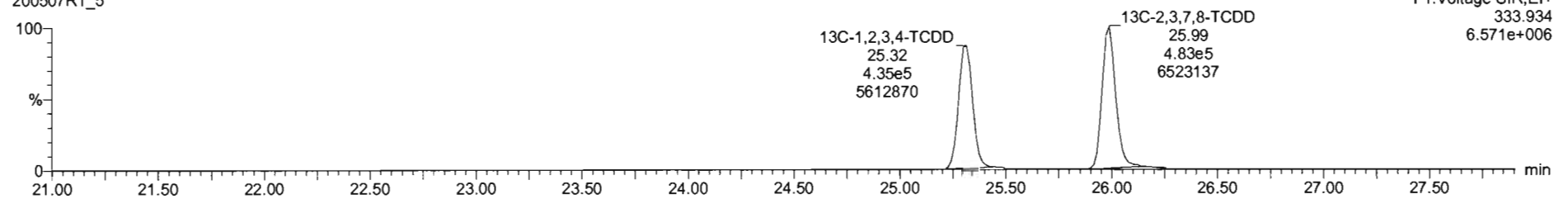


13C-1,2,3,4-TCDD

200507R1_5



200507R1_5



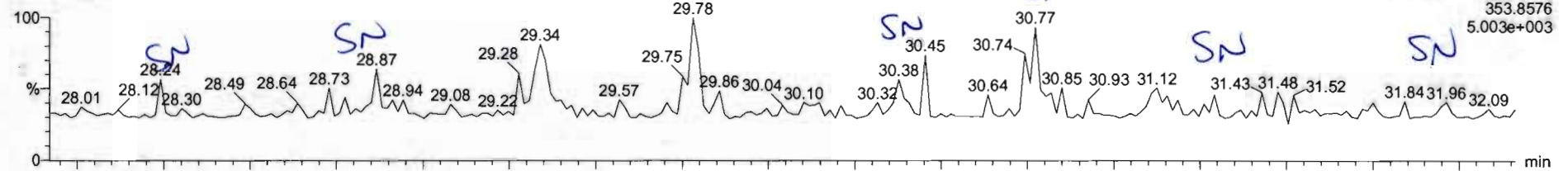
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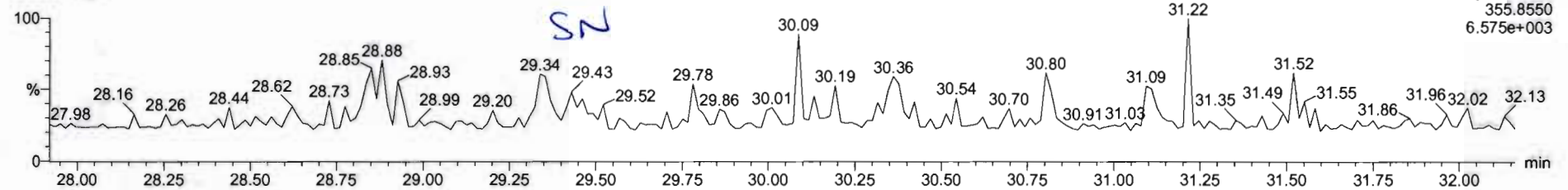
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1,2,3,7,8-PeCDD

200507R1_5

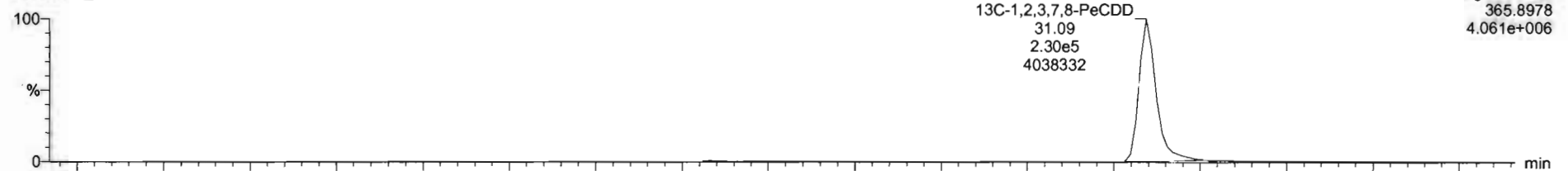


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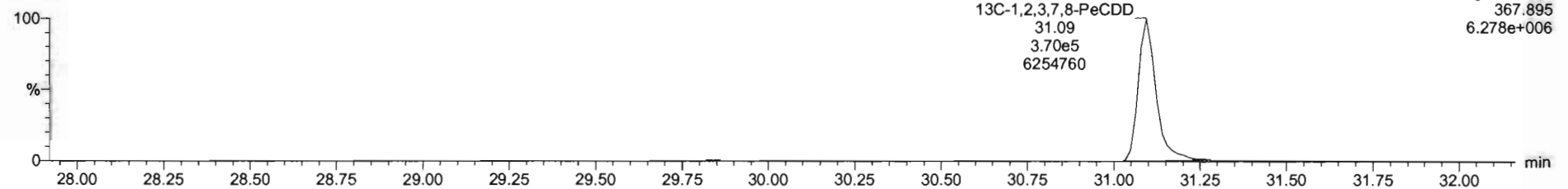


13C-1,2,3,7,8-PeCDD

200507R1_5



200507R1_5



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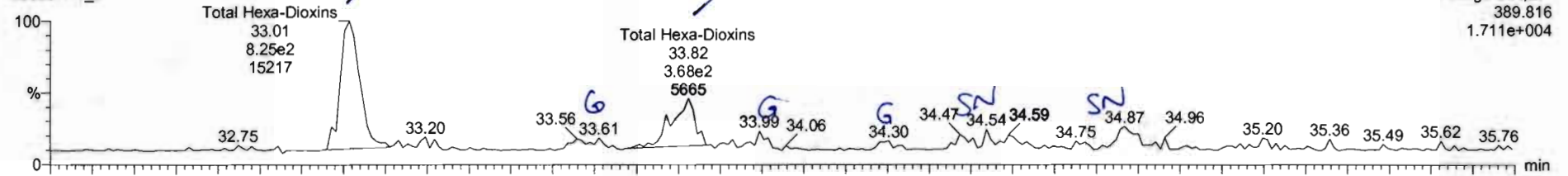
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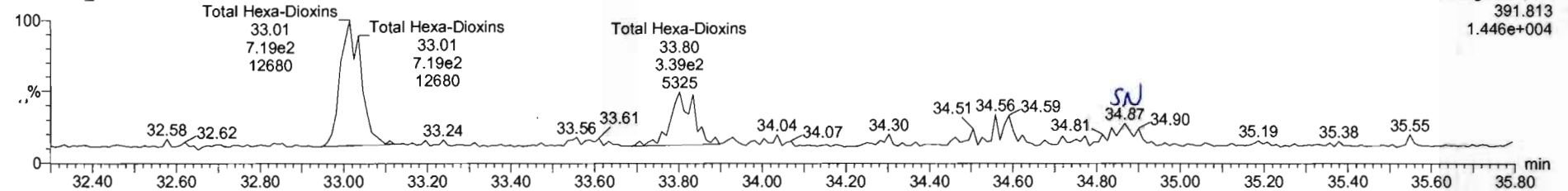
1,2,3,4,7,8-HxCDD

200507R1_5



F3: Voltage SIR, EI+
389.816
1.711e+004

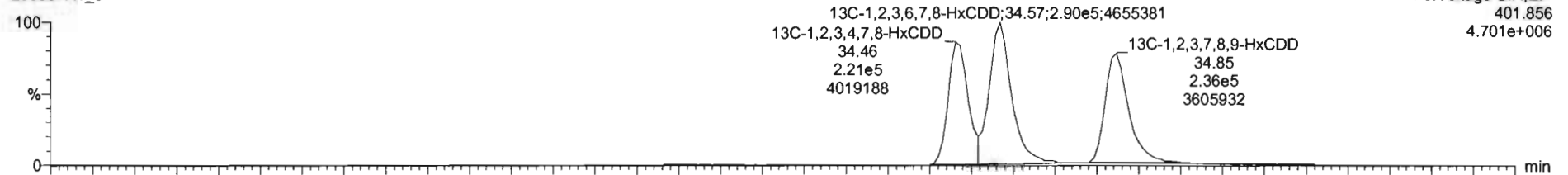
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F3: Voltage SIR, EI+
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1.446e+004

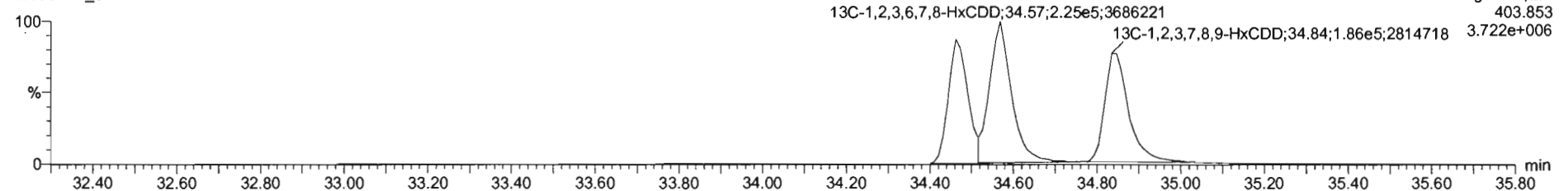
13C-1,2,3,4,7,8-HxCDD

200507R1_5



F3: Voltage SIR, EI+
401.856
4.701e+006

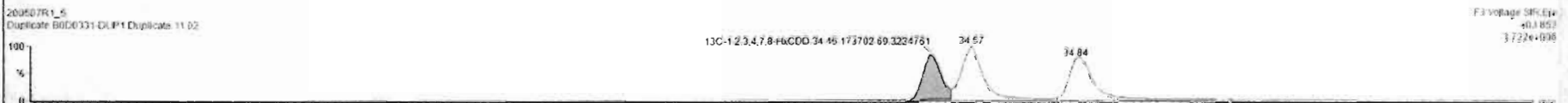
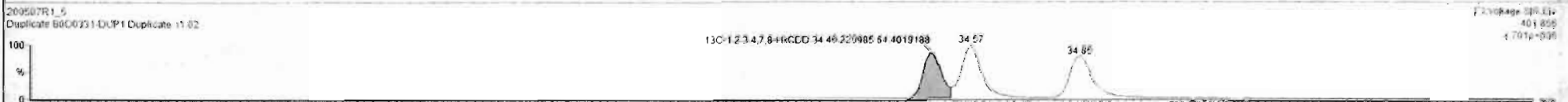
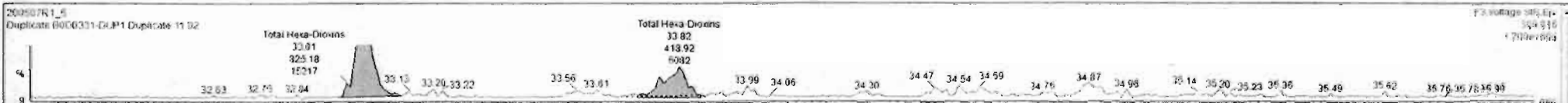
200507R1_5



F3: Voltage SIR, EI+
403.853
3.722e+006

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.021					0.0573	
40 Total Penta-Dioxins				0.9425	10.021					0.0438	
41 Total Hexa-Dioxins				0.9145	10.021			1.12		0.122	1.12

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.82	4.189e2	3.268e2	1.28	ND	0.36634	0.36634
2 Total Hexa-Dioxins	33.01	8.252e2	7.189e2	1.15	ND	0.75856	0.75856



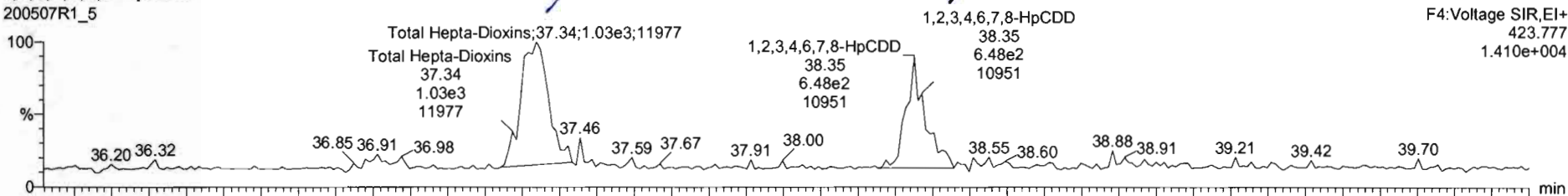
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

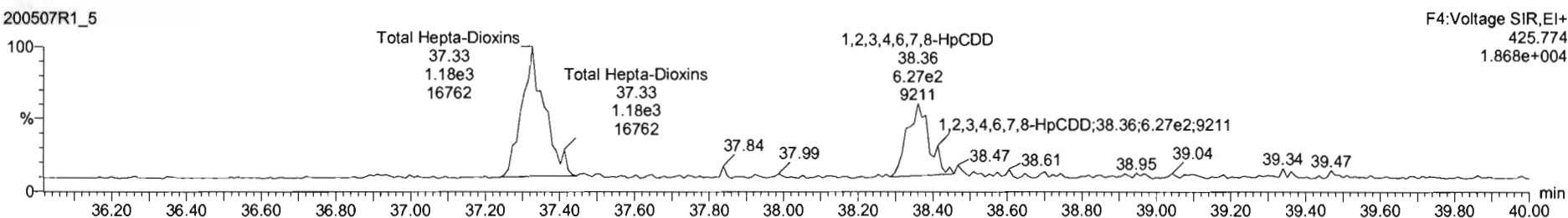
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1,2,3,4,6,7,8-HpCDD

200507R1_5

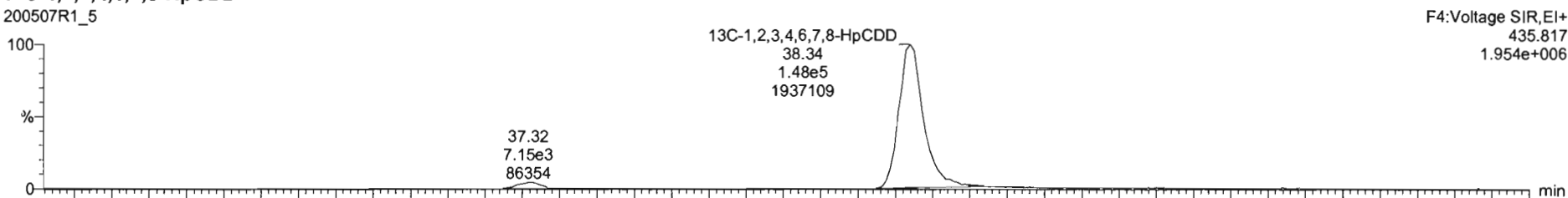


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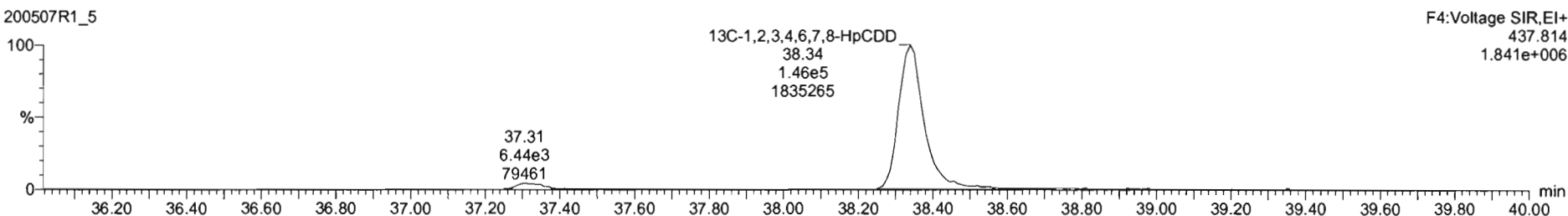


13C-1,2,3,4,6,7,8-HpCDD

200507R1_5

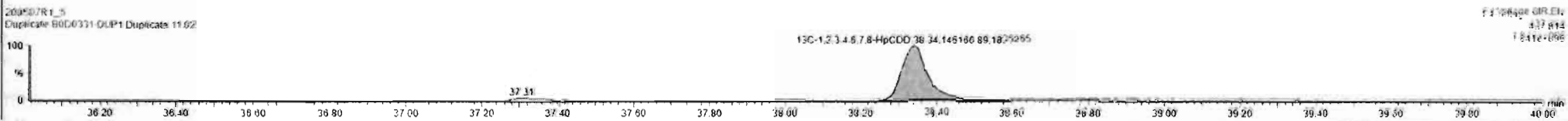
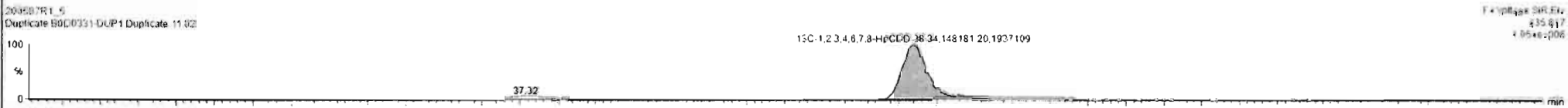
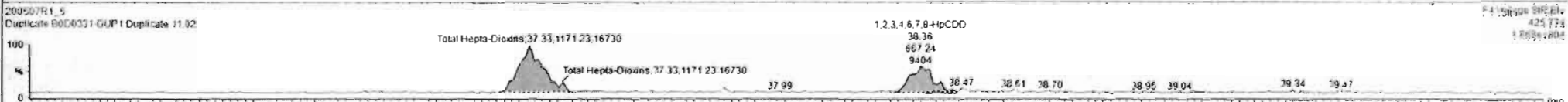
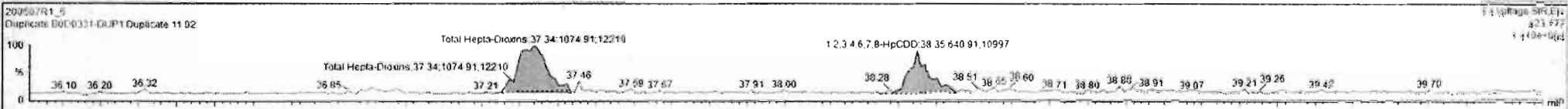


200507R1_5



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.021					0.0573	
40 Total Penta-Dioxins				0.9425	10.021					0.0438	
41 Total Hexa-Dioxins				0.9145	10.021			1.12		0.122	1.12

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hepta-Dioxins	37.34	1.075e3	1.171e3	0.92	NO	1.6062	1.6962
2 1,2,3,4,6,7,8-HpCDD	38.35	6.409e2	5.672e2	0.96	NO	0.95757	0.58787

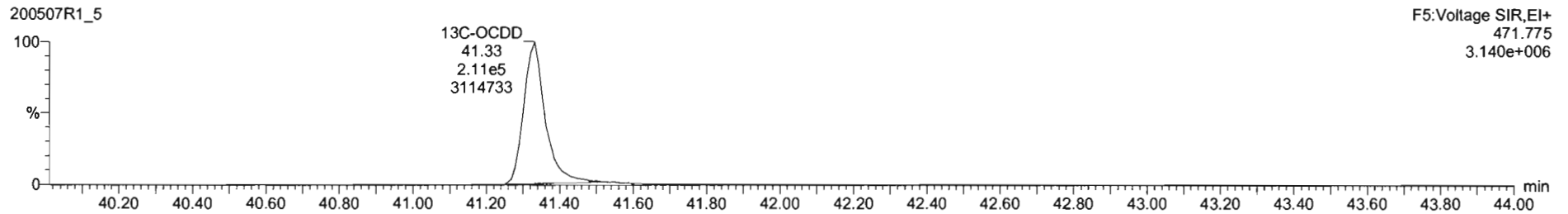
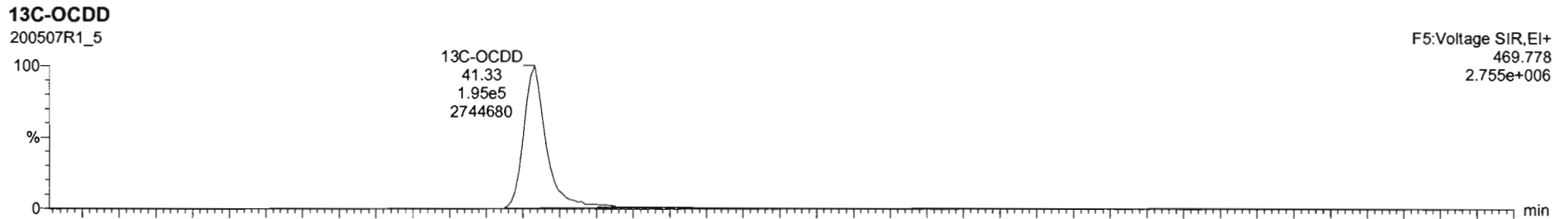
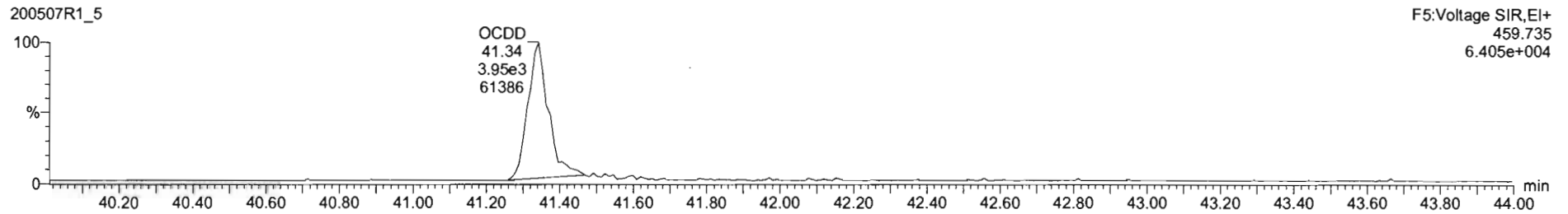
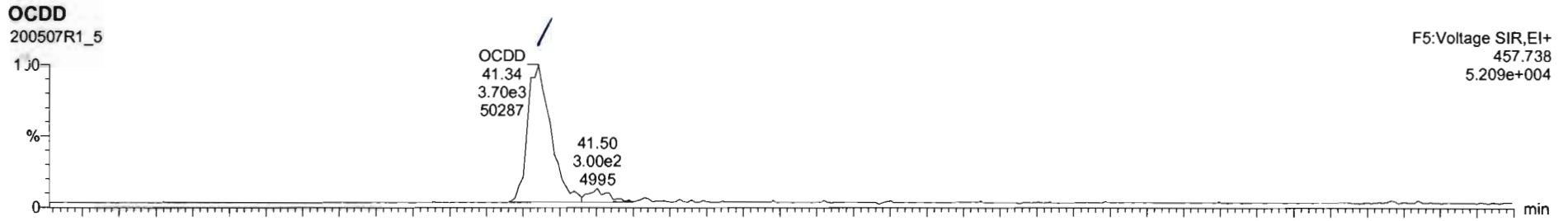


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Last Altered: Thursday, May 07, 2020 1:30:35 PM Pacific Daylight Time

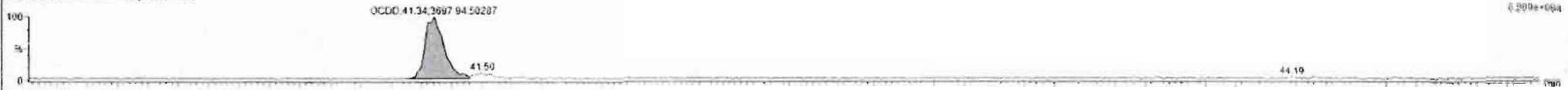
Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

Name: 200507R1_5, Date: 07-May-2020, Time: 11:16:28, ID: B0D0331-DUP1 Duplicate 11.02, Description: Duplicate



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	0.9475	10.021					0.107	
2 1,2,3,7,8-PeCDD			NO	0.9425	10.021					0.109	
3 1,2,3,4,7,8-HxCDD			NO	1.0641	10.021					0.107	
4 1,2,3,6,7,8-HxCDD			NO	0.9145	10.021					0.106	
5 1,2,3,7,8,9-HxCDD			NO	0.9145	10.021					0.130	
6 1,2,3,4,6,7,8-HpCDD	1.28e3	1.03	NO	0.8979	10.021	36.15	1.000	0.963		0.167	0.963
7 OCDD	7.64e3	0.29	NO	0.9336	10.021	41.24	1.000	6.40		0.237	3.40
8 2,3,7,8-TCDF			NO	0.7871	10.021					0.0976	
9 1,2,3,7,8-PeCDF			NO	0.9192	10.021					0.0576	
10 2,3,4,7,8-PeCDF			NO	0.9654	10.021					0.0534	
11 1,2,3,4,7,8-HxCDF			NO	0.8782	10.021					0.0696	
12 1,2,3,6,7,8-HxCDF			NO	0.8740	10.021					0.0682	
13 2,3,4,6,7,8-HxCDF			NO	0.9217	10.021					0.0977	
14 1,2,3,7,8,9-HxCDF			NO	0.8642	10.021					0.172	
15 1,2,3,4,6,7,8-HpCDF			NO	0.8712	10.021					0.160	
16 1,2,3,4,6,8,9-HpCDF			NO	1.0116	10.021					0.243	
17 OCDF	0.66e2	1.12	YES	0.8021	10.021	41.51	1.000	0.810		0.269	0.720

200507R1_5
Duplicate B0D0331-DUP1 Duplicate 11.02



F2 Voltage SR.E1
493.738
6.890e+004

200507R1_5
Duplicate B0D0331-DUP1 Duplicate 11.02



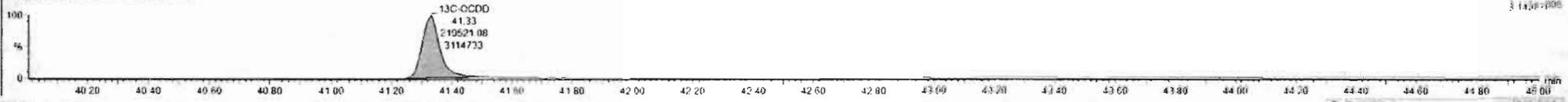
F2 Voltage SR.E1
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6.405e+004

200507R1_5
Duplicate B0D0331-DUP1 Duplicate 11.02



F2 Voltage SR.E1
469.770
2.790e+006

200507R1_5
Duplicate B0D0331-DUP1 Duplicate 11.02



F2 Voltage SR.E1
493.775
3.143e+006

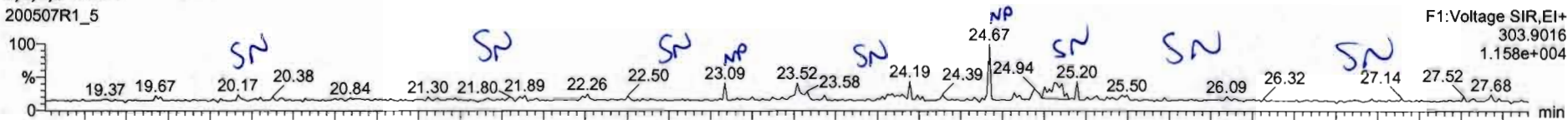
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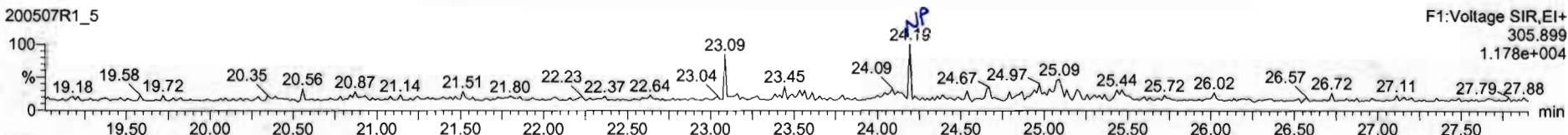
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2,3,7,8-TCDF

200507R1_5

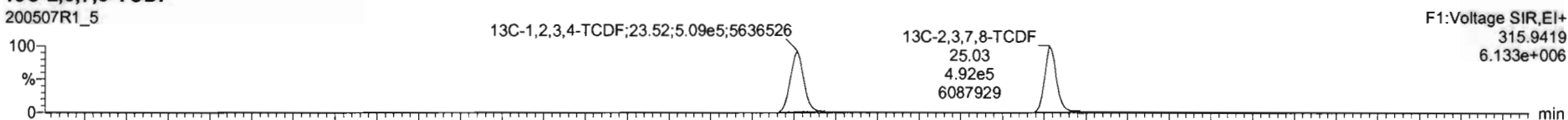


200507R1_5

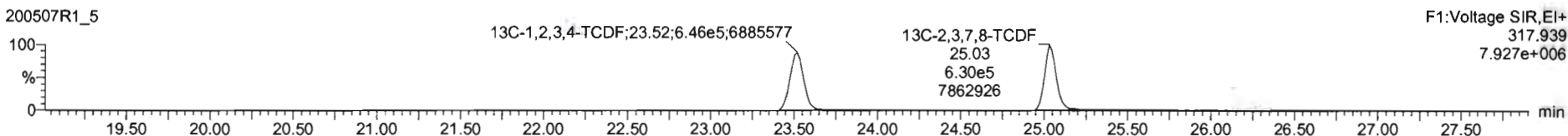


13C-2,3,7,8-TCDF

200507R1_5

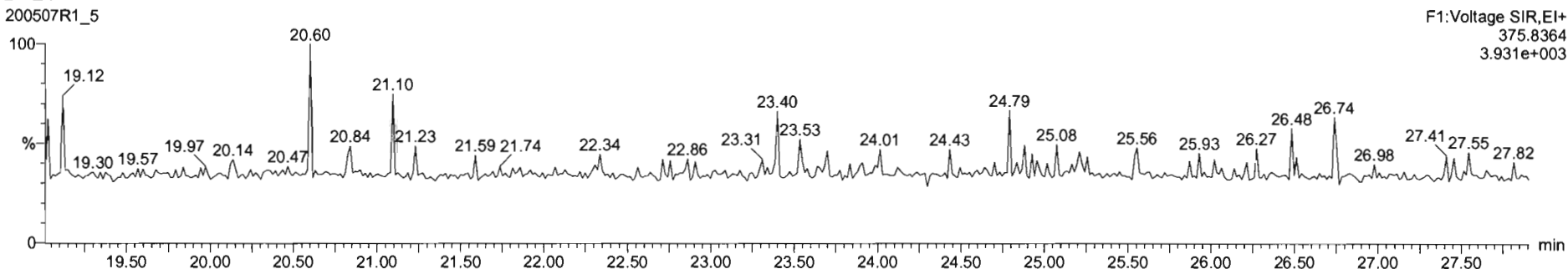


200507R1_5



DPE1

200507R1_5



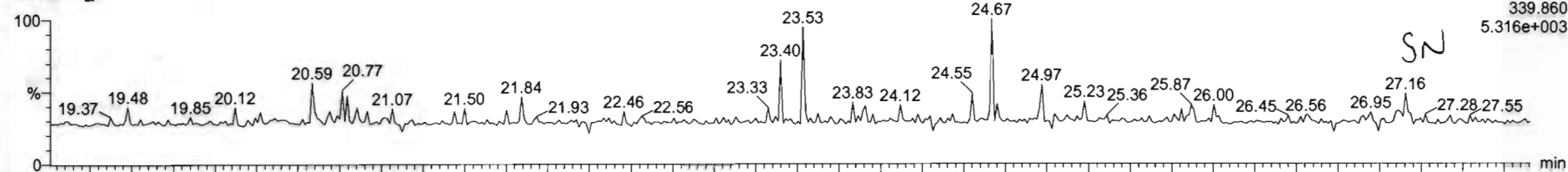
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Last Altered: Thursday, May 07, 2020 1:30:35 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

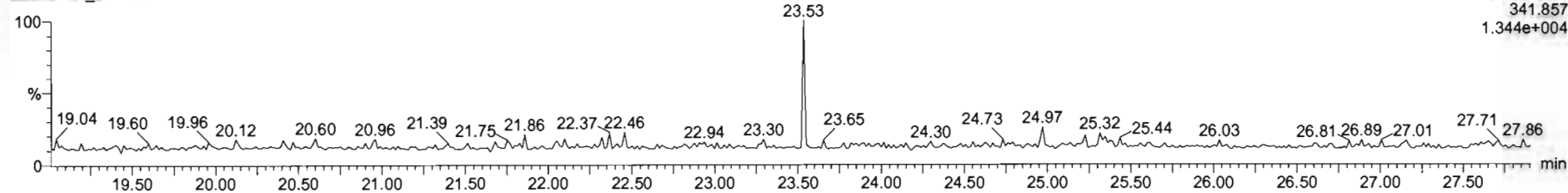
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1st Func. Penta-Furans

200507R1_5

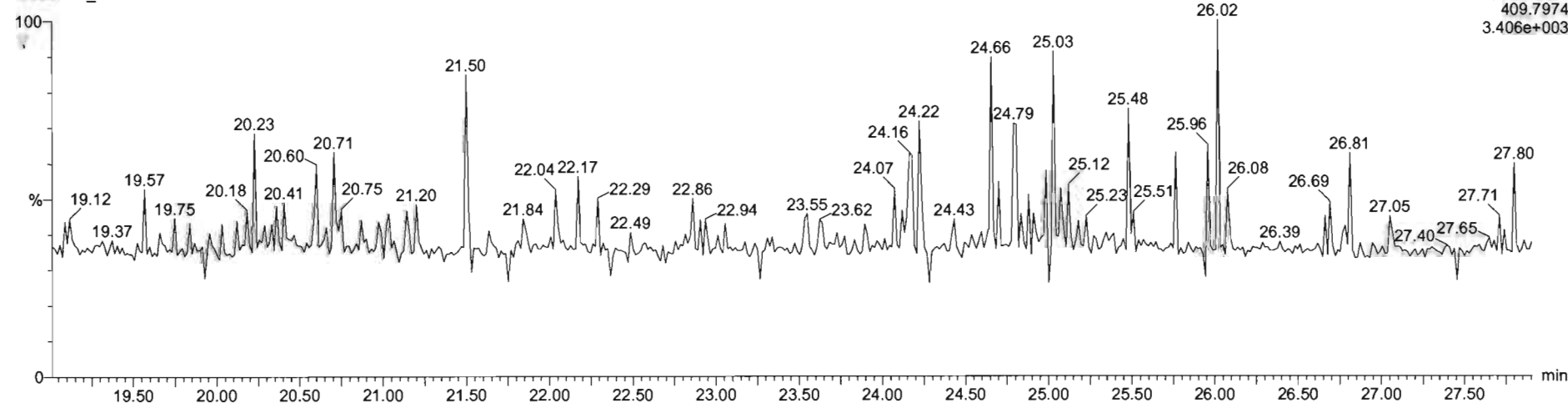


200507R1_5



DPE6

200507R1_5



Dataset: Untitled

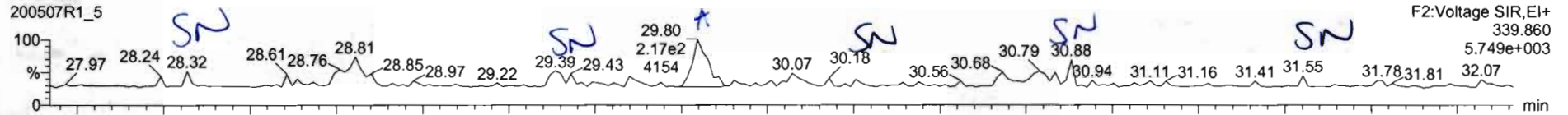
Last Altered: Thursday, May 07, 2020 1:30:35 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

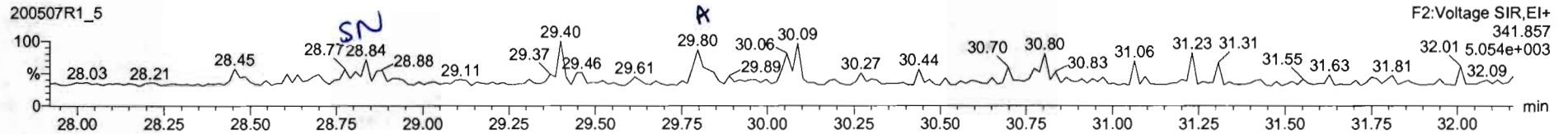
Name: 200507R1_5, Date: 07-May-2020, Time: 11:16:28, ID: B0D0331-DUP1 Duplicate 11.02, Description: Duplicate

1,2,3,7,8-PeCDF

200507R1_5

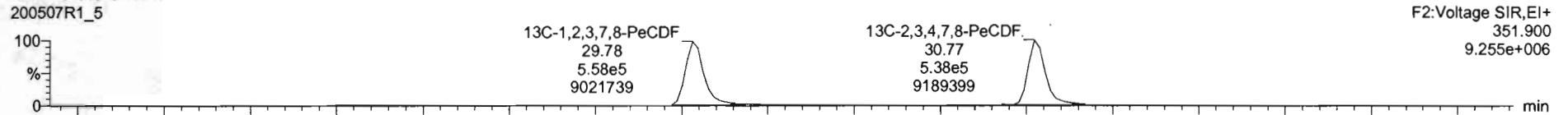


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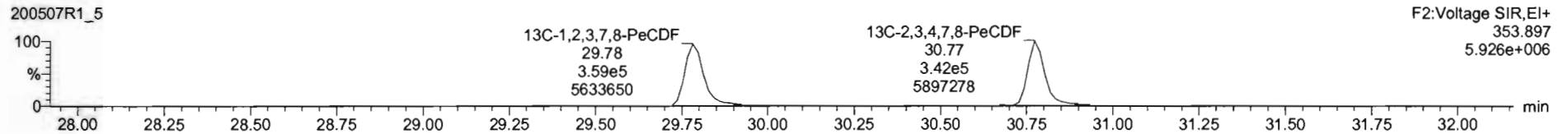


13C-1,2,3,7,8-PeCDF

200507R1_5

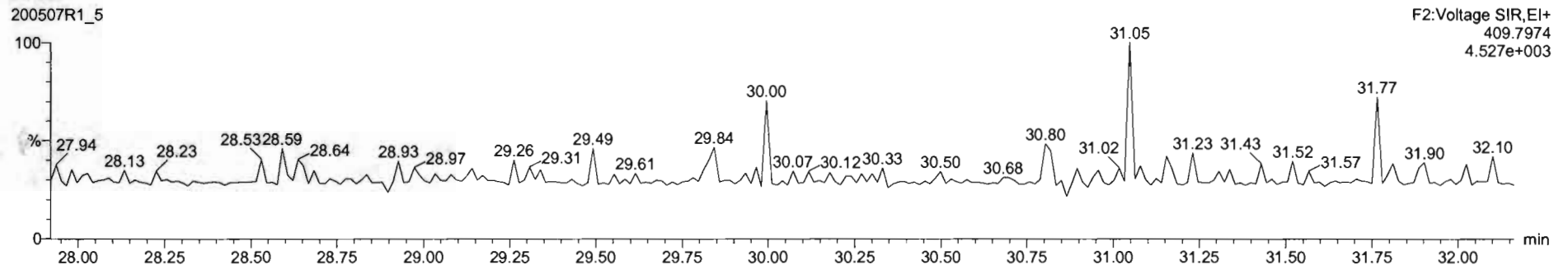


200507R1_5



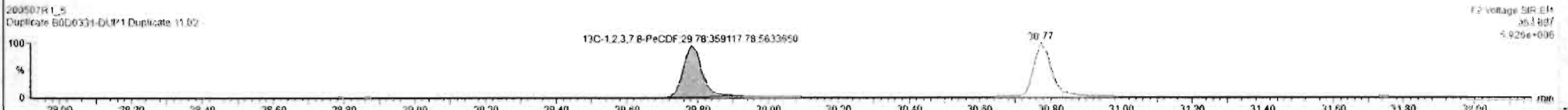
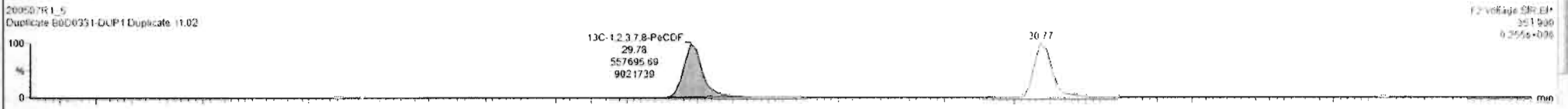
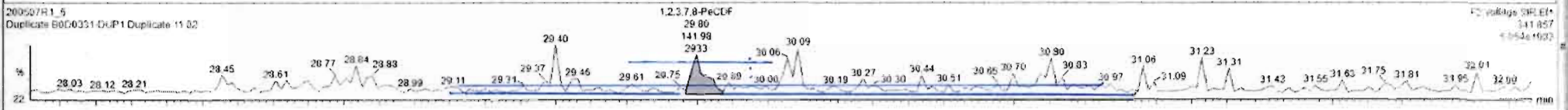
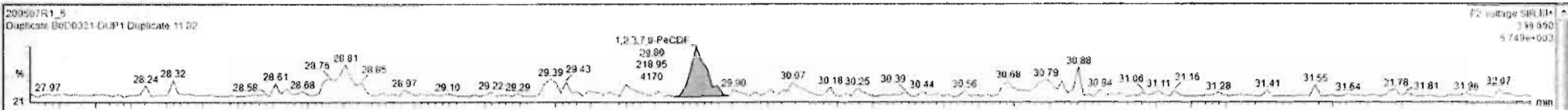
DPE2

200507R1_5



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.021					0.0396	
44 1st Func. Penta-Furans				0.9102	10.021					0.0224	
45 Total Penta-Furans				0.9102	10.021			0.0263		0.0251	0.0663

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8-PeCDF	29.80	2.189e2	1.420e2	1.54	NO	0.066336	0.386326



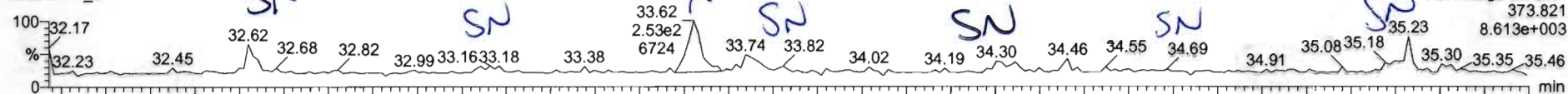
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Last Altered: Thursday, May 07, 2020 1:30:35 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

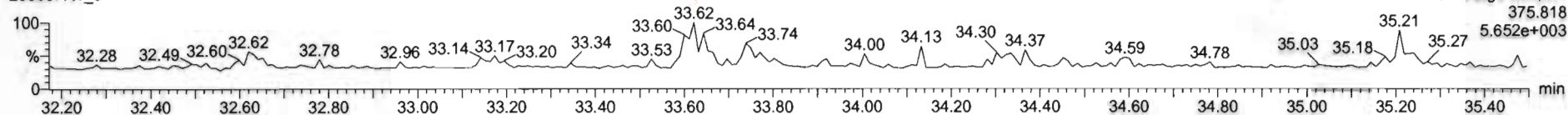
Name: 200507R1_5, Date: 07-May-2020, Time: 11:16:28, ID: B0D0331-DUP1 Duplicate 11.02, Description: Duplicate

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

200507R1_5

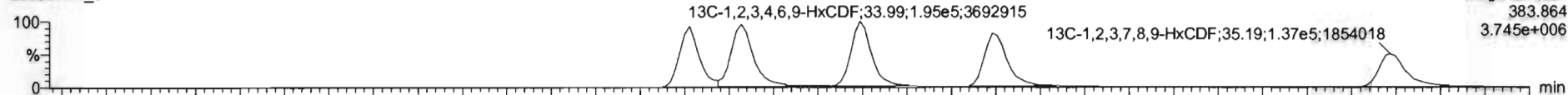


200507R1_5

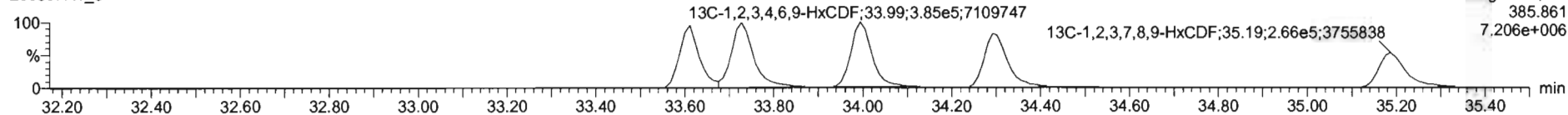


13C-1,2,3,4,7,8-HxCDF

200507R1_5

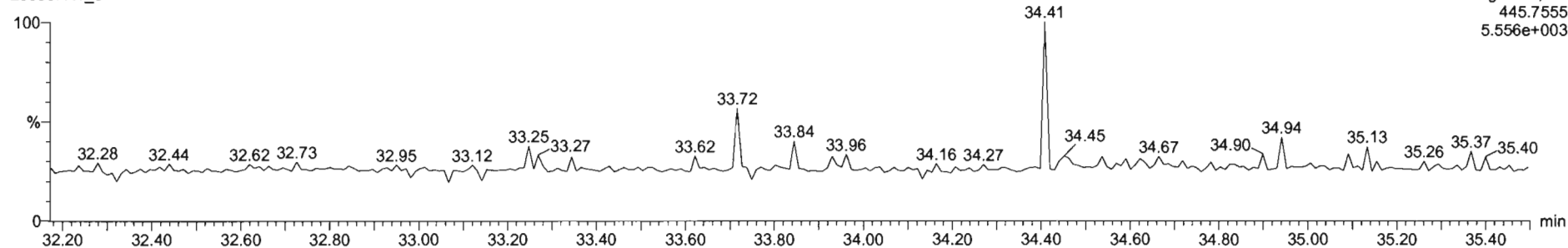


200507R1_5



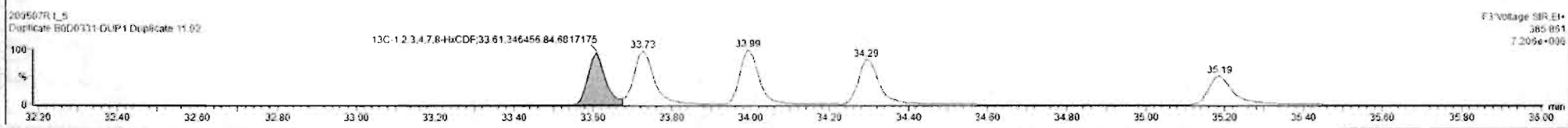
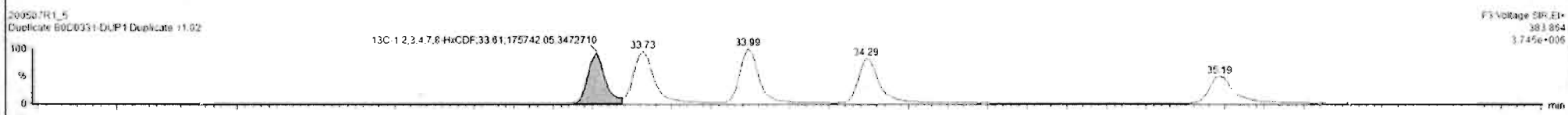
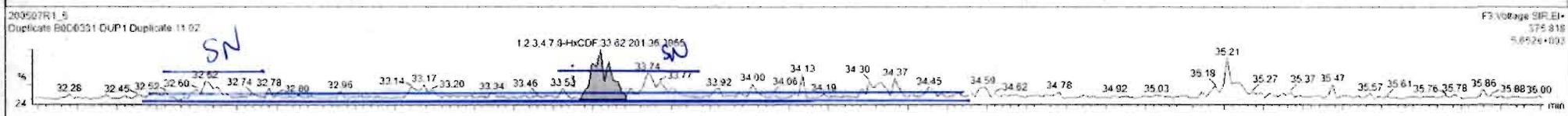
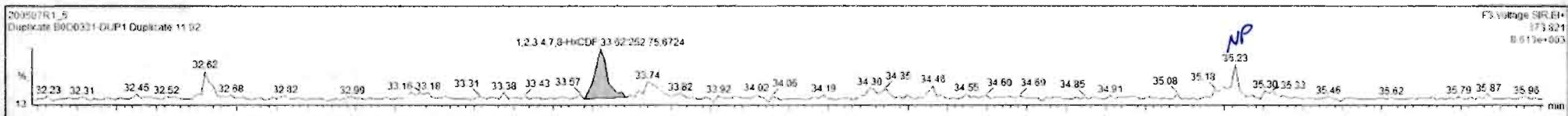
DPE3

200507R1_5



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7971	10.021					0.0396	
44 1st Func. Penta-Furans				0.9102	10.021					0.0224	
45 Total Penta-Furans				0.9102	10.021			0.0963		0.0251	0.0963

Name	RT	nt Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,7,8-HxCDF	33.62	2.527e2	2.014e2	1.26	NG	0.197e2	0.197e3



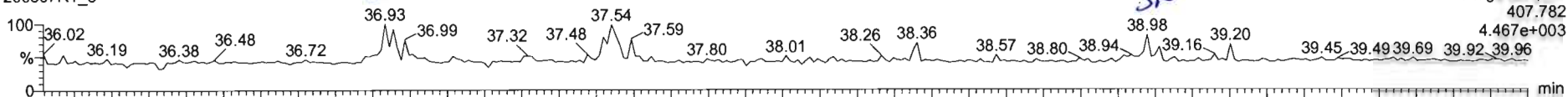
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Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

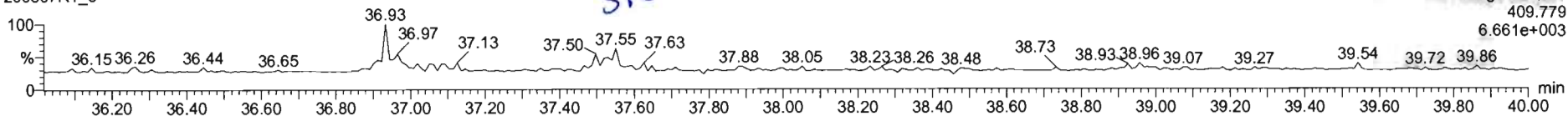
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1,2,3,4,6,7,8-HpCDF

200507R1_5

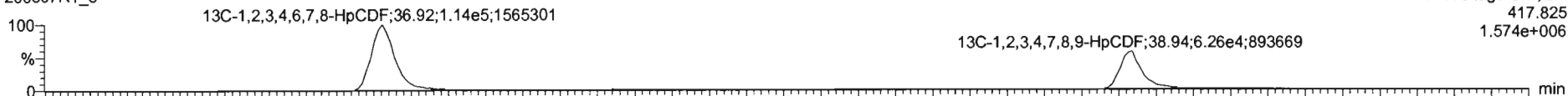


200507R1_5

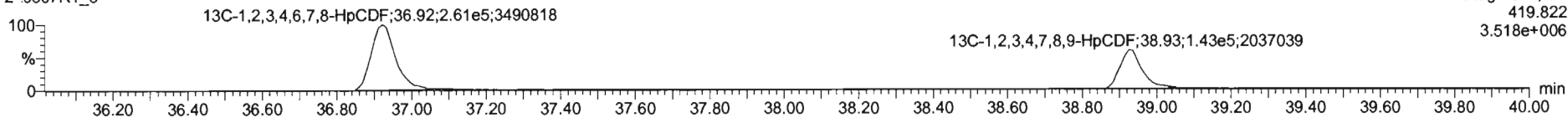


13C-1,2,3,4,6,7,8-HpCDF

200507R1_5

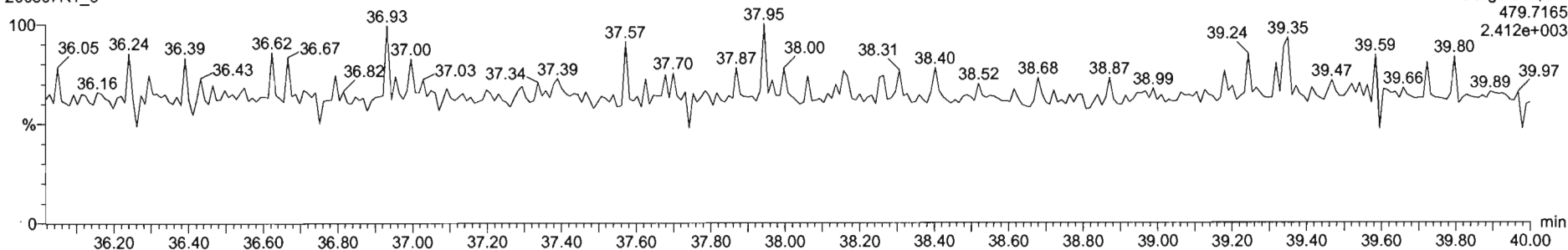


200507R1_5



DPE4

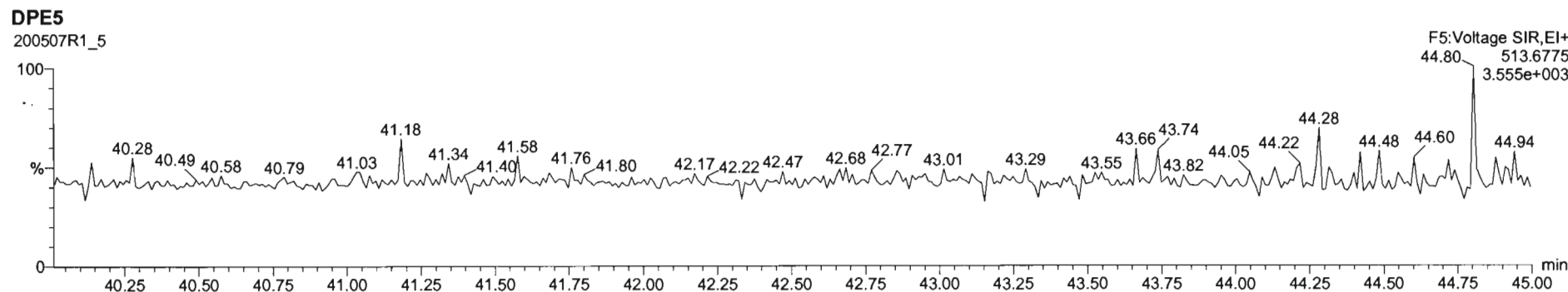
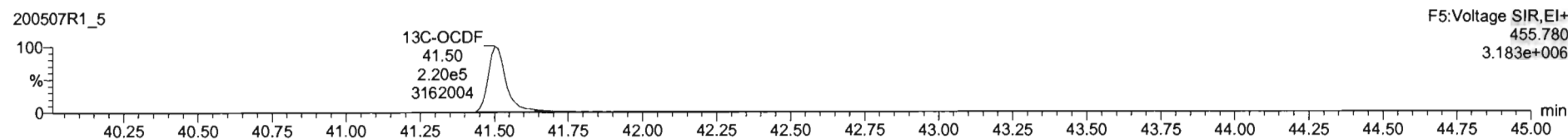
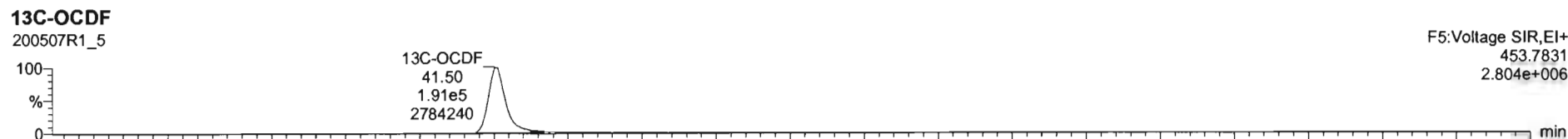
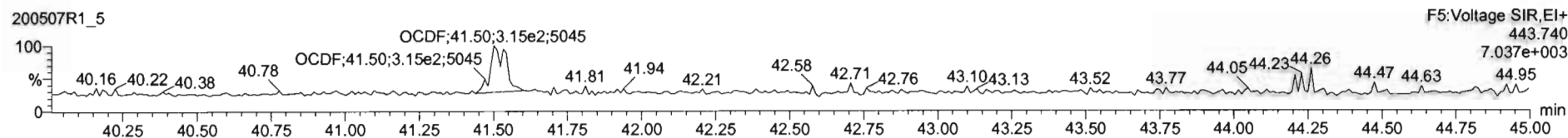
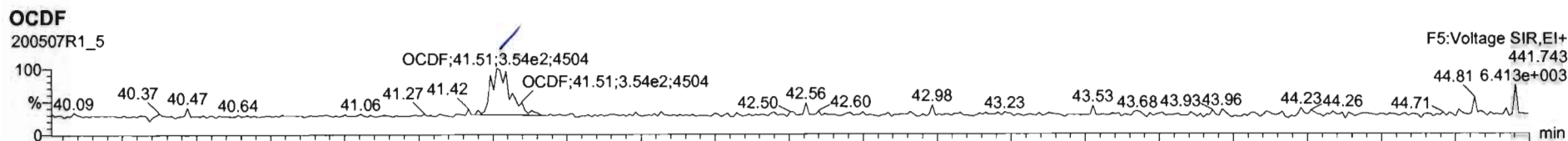
200507R1_5



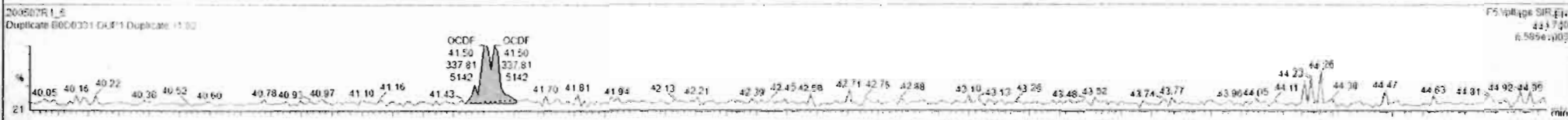
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Last Altered: Thursday, May 07, 2020 1:30:35 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

Name: 200507R1_5, Date: 07-May-2020, Time: 11:16:28, ID: B0D0331-DUP1 Duplicate 11.02, Description: Duplicate



#	Name	Resp	RA	nfy	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
2	1,2,3,7,8-PeCDD				0.9425	10.021					0.109	
3	1,2,3,4,7,8-HxCDD				1.9541	10.021					0.107	
4	1,2,3,6,7,8-HxCDD				0.9145	10.021					0.108	
5	1,2,3,7,8,9-HxCDD				0.9145	10.021					0.136	
6	1,2,3,4,6,7,8-HpCDD	1.29e3	1.03		0.8975	10.021	30.35	1.000	0.963		0.187	0.962
7	OCDD	7.54e3	0.89		0.9335	10.021	41.34	1.000	8.40		0.237	6.40
8	2,3,7,8-TCDF				0.7871	10.021					0.0976	
9	1,2,3,7,8-PeCDF				0.9102	10.021					0.0576	
10	2,3,4,7,8-PeCDF				0.9564	10.021					0.0535	
11	1,2,3,4,7,8-HxCDF				0.8782	10.021					0.0895	
12	1,2,3,6,7,8-HxCDF				0.8740	10.021					0.0682	
13	2,3,4,6,7,8-HxCDF				0.8217	10.021					0.0977	
14	1,2,3,7,8,9-HxCDF				0.8642	10.021					0.172	
15	1,2,3,4,6,7,8-HpCDF				0.8712	10.021					0.150	
16	1,2,3,4,7,8,9-HpCDF				1.0116	10.021					0.242	
17	OCDF	6.77e2	1.00		0.8021	10.021	41.51	1.000	0.820		0.269	0.820
18	13C-2,3,7,8-TCDD	0.56e3	0.77		1.1590	10.021	25.99	1.027	188	54.3	0.339	

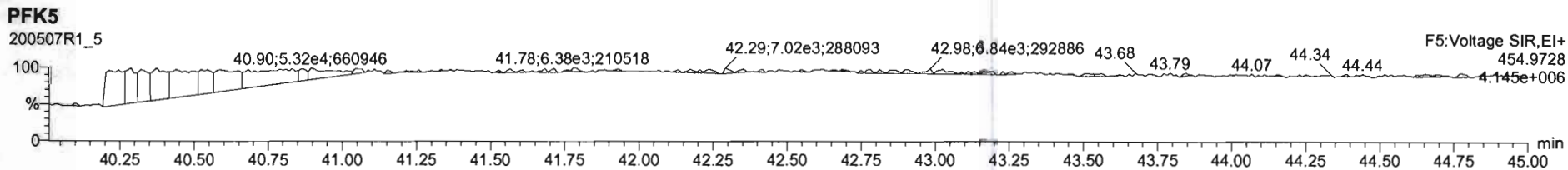
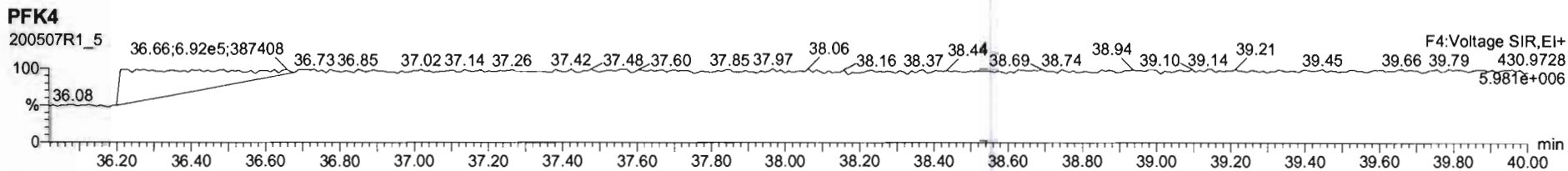
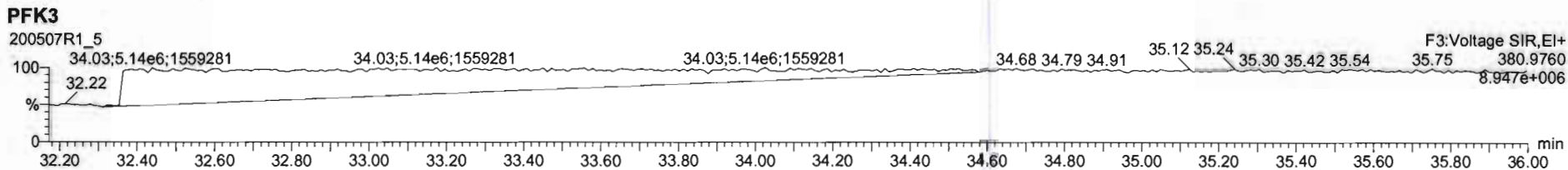
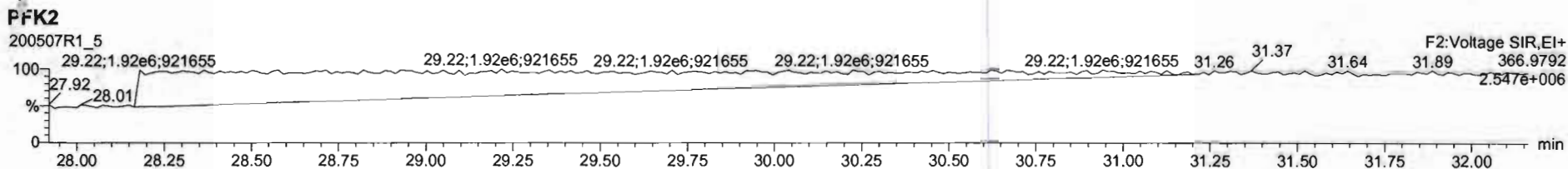
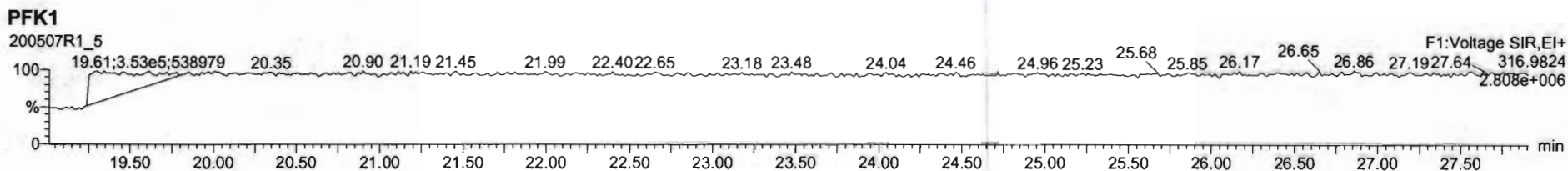


Custom Reporting: Select reports to generate.

Dataset: Untitled

Last Altered: Thursday, May 07, 2020 1:30:35 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 1:30:38 PM Pacific Daylight Time

Name: 200507R1_5, Date: 07-May-2020, Time: 11:16:28, ID: B0D0331-DUP1 Duplicate 11.02, Description: Duplicate



Dataset: U:\VG12.PRO\Results\200507R1\200507R1-7.qld

Last Altered: Friday, May 08, 2020 11:28:37 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 11:35:08 AM Pacific Daylight Time

GRB 05/08/2020

CT 05/14/2020

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

Name: 200507R1_7, Date: 07-May-2020, Time: 12:49:11, ID: 2000952-02 PDI-158SC-A-05-06-200423 11.13, Description: PDI-158SC-A-05-06-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.063	25.991		1.001				0.102	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.063	31.101		1.001				0.0886	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.063	34.462		1.000				0.114	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.063	34.558		1.000				0.115	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.063	34.845		1.000				0.141	
6	6 1,2,3,4,6,7,8-HpCDD	3.27e3	1.11	NO	0.898	10.063	38.340	38.34	1.000	1.000	2.2099		0.346	2.21
7	7 OCDD	1.12e4	0.93	NO	0.933	10.063	41.314	41.33	1.000	1.000	11.034		0.197	11.0
8	8 2,3,7,8-TCDF			NO	0.787	10.063	25.042		1.001				0.0887	
9	9 1,2,3,7,8-PeCDF	3.56e2	1.09	YES	0.910	10.063	29.788	29.78	1.001	1.001	0.076229		0.0282	0.0655
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.063	30.789		1.001				0.0581	
11	11 1,2,3,4,7,8-HxCDF	2.71e2	1.30	NO	0.878	10.063	33.600	33.61	1.000	1.000	0.099321		0.0299	0.0993
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.063	33.727		1.000				0.0517	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.063	34.326		1.001				0.0590	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.063	35.176		1.000				0.0971	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.063	36.949		1.001				0.610	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.063	38.915		1.000				0.886	
17	17 OCDF			NO	0.802	10.063	41.495		1.000				0.221	
18	18 13C-2,3,7,8-TCDD	8.93e5	0.79	NO	1.16	10.063	25.969	25.96	1.026	1.026	186.25	93.7	0.368	
19	19 13C-1,2,3,7,8-PeCDD	6.78e5	0.64	NO	0.847	10.063	31.049	31.08	1.227	1.228	193.66	97.4	0.444	
20	20 13C-1,2,3,4,7,8-HxCDD	4.42e5	1.29	NO	0.750	10.063	34.462	34.45	1.014	1.014	192.69	97.0	0.699	
21	21 13C-1,2,3,6,7,8-HxCDD	5.78e5	1.29	NO	0.963	10.063	34.574	34.56	1.017	1.017	196.11	98.7	0.544	
22	22 13C-1,2,3,7,8,9-HxCDD	4.86e5	1.23	NO	0.838	10.063	34.843	34.83	1.025	1.025	189.88	95.5	0.626	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.28e5	1.11	NO	0.641	10.063	38.329	38.33	1.128	1.128	167.06	84.1	0.961	
24	24 13C-OCDD	4.32e5	0.92	NO	0.586	10.063	41.320	41.31	1.216	1.216	240.85	60.6	0.418	
25	25 13C-2,3,7,8-TCDF	1.08e6	0.78	NO	1.03	10.063	25.030	25.02	0.989	0.989	170.00	85.5	0.580	
26	26 13C-1,2,3,7,8-PeCDF	1.02e6	1.59	NO	0.845	10.063	29.741	29.77	1.176	1.177	197.53	99.4	0.961	
27	27 13C-2,3,4,7,8-PeCDF	9.85e5	1.54	NO	0.814	10.063	30.731	30.76	1.215	1.216	197.79	99.5	0.997	
28	28 13C-1,2,3,4,7,8-HxCDF	6.17e5	0.51	NO	1.00	10.063	33.602	33.60	0.989	0.989	200.83	101	0.861	
29	29 13C-1,2,3,6,7,8-HxCDF	7.31e5	0.51	NO	1.14	10.063	33.725	33.72	0.992	0.992	210.13	106	0.761	
30	30 13C-2,3,4,6,7,8-HxCDF	6.07e5	0.51	NO	1.02	10.063	34.292	34.29	1.009	1.009	194.02	97.6	0.846	
31	31 13C-1,2,3,7,8,9-HxCDF	4.58e5	0.49	NO	0.845	10.063	35.183	35.18	1.035	1.035	177.23	89.2	1.02	

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-7.qld

Last Altered: Friday, May 08, 2020 11:28:37 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 11:35:08 AM Pacific Daylight Time

Name: 200507R1_7, Date: 07-May-2020, Time: 12:49:11, ID: 2000952-02 PDI-158SC-A-05-06-200423 11.13, Description: PDI-158SC-A-05-06-200423

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.27e5	0.45	NO	0.771	10.063	36.912	36.91	1.086	1.086	180.93	91.0	1.42	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.18e5	0.42	NO	0.482	10.063	38.921	38.92	1.145	1.145	147.99	74.5	2.27	
34	34 13C-OCDF	3.89e5	0.85	NO	0.669	10.063	41.490	41.49	1.221	1.221	190.42	47.9	0.364	
35	35 37Cl-2,3,7,8-TCDD	3.04e5			1.10	10.063	25.999	25.99	1.028	1.027	67.045	84.3	0.0746	
36	36 13C-1,2,3,4-TCDD	8.22e5	0.78	NO	1.00	10.063	25.350	25.30	1.000	1.000	198.75	100	0.427	
37	37 13C-1,2,3,4-TCDF	1.22e6	0.78	NO	1.00	10.063	23.560	23.50	1.000	1.000	198.75	100	0.600	
38	38 13C-1,2,3,4,6,9-HxCDF	6.08e5	0.51	NO	1.00	10.063	34.000	33.98	1.000	1.000	198.75	100	0.865	
39	39 Total Tetra-Dioxins				0.947	10.063	24.620		0.000				0.0573	
40	40 Total Penta-Dioxins				0.942	10.063	29.960		0.000				0.0354	
41	41 Total Hexa-Dioxins				0.915	10.063	33.635		0.000		2.4634		0.129	2.46
42	42 Total Hepta-Dioxins				0.898	10.063	37.640		0.000		5.7144		0.346	5.71
43	43 Total Tetra-Furans				0.787	10.063	23.610		0.000				0.0411	
44	44 1st Func. Penta-Furans				0.910	10.063	27.090		0.000				0.0215	
45	45 Total Penta-Furans				0.910	10.063	29.275		0.000		0.00000		0.0279	0.0655
46	46 Total Hexa-Furans				0.922	10.063	33.555		0.000		0.099321		0.0338	0.0993
47	47 Total Hepta-Furans				0.871	10.063	37.835		0.000				0.0781	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-7.qld

Last Altered: Friday, May 08, 2020 11:28:37 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 11:35:08 AM Pacific Daylight Time

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

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

Name: 200507R1_7, Date: 07-May-2020, Time: 12:49:11, ID: 2000952-02 PDI-158SC-A-05-06-200423 11.13, Description: PDI-158SC-A-05-06-200423

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	4.179e4	3.569e4	2.243e3	1.929e3	1.16	NO	4.172e3	1.8063	1.8063	0.129
2	Total Hexa-Dioxins	33.80	1.294e4	1.077e4	8.389e2	6.790e2	1.24	NO	1.518e3	0.65719	0.65719	0.129

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.33	3.504e4	2.944e4	2.680e3	2.509e3	1.07	NO	5.189e3	3.5045	3.5045	0.346
2	1,2,3,4,6,7,8-HpCDD	38.34	2.566e4	2.147e4	1.718e3	1.554e3	1.11	NO	3.272e3	2.2099	2.2099	0.346

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-7.qld

Last Altered: Friday, May 08, 2020 11:28:37 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 11:35:08 AM Pacific Daylight Time

Name: 200507R1_7, Date: 07-May-2020, Time: 12:49:11, ID: 2000952-02 PDI-158SC-A-05-06-200423 11.13, Description: PDI-158SC-A-05-06-200423

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8-PeCDF	29.78	3.608e3	2.978e3	1.861e2	1.702e2	1.09	YES	3.563e2	0.00000	0.065492	0.0282

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,7,8-HxCDF	33.61	3.905e3	2.474e3	1.530e2	1.179e2	1.30	NO	2.709e2	0.099321	0.099321	0.0299

Hepta-Furans

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

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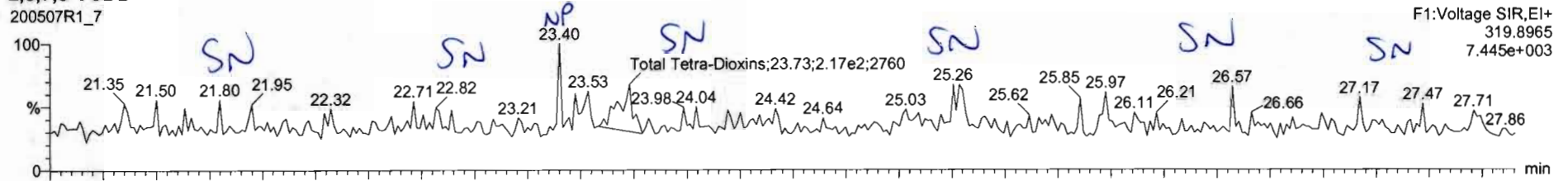
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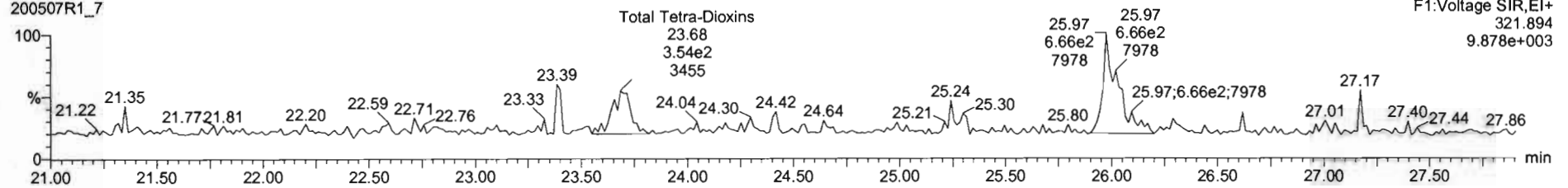
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2,3,7,8-TCDD

200507R1_7

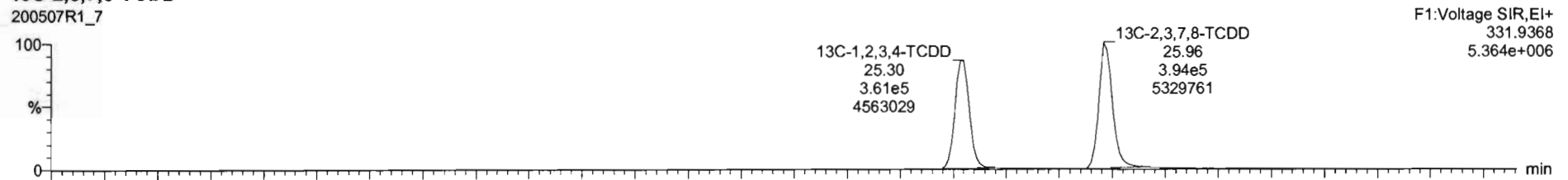


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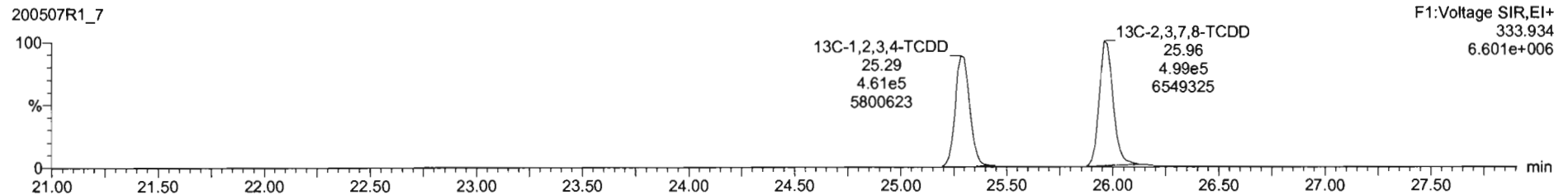


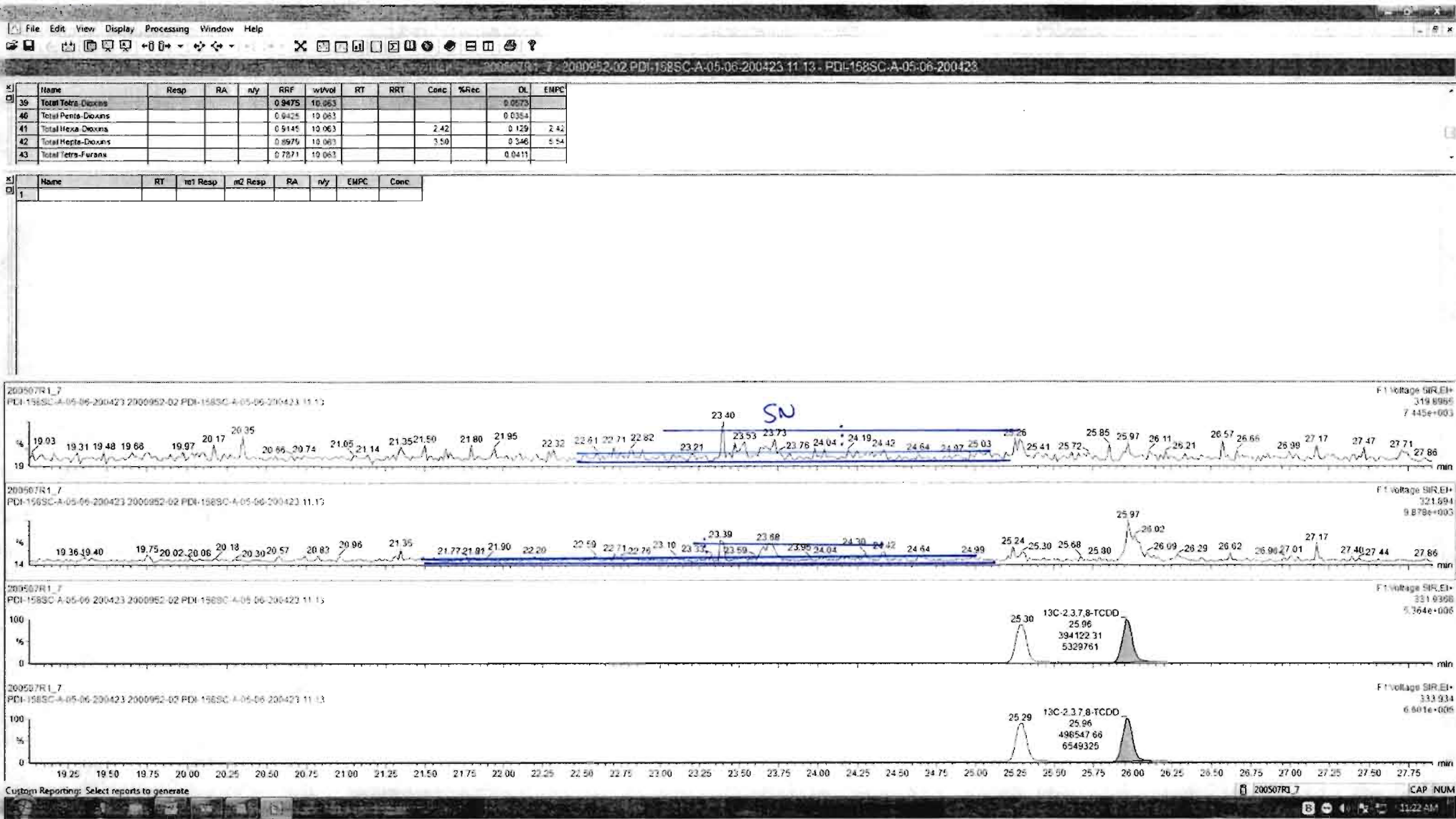
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200507R1_7



200507R1_7





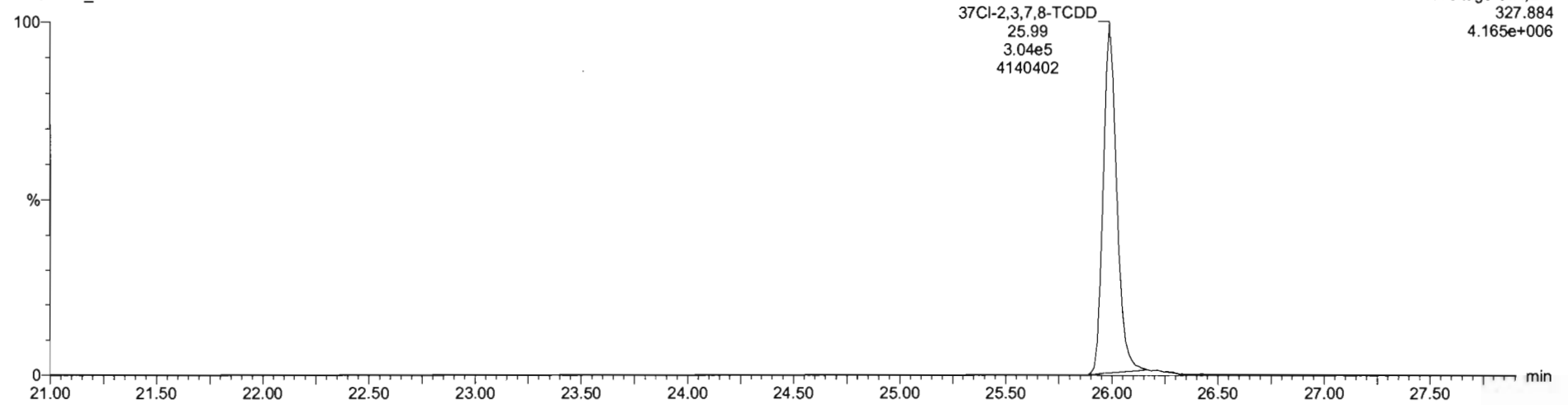
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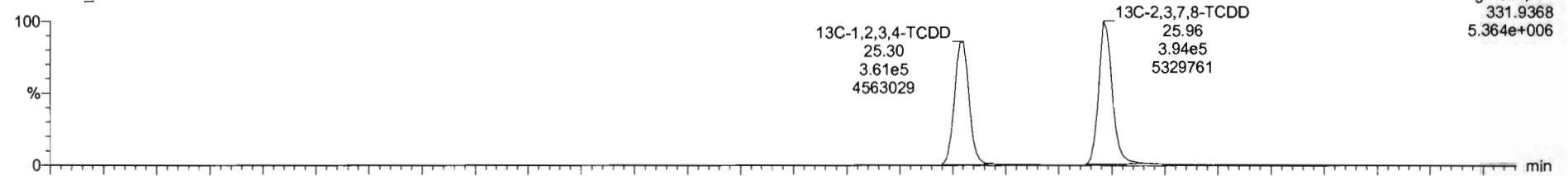
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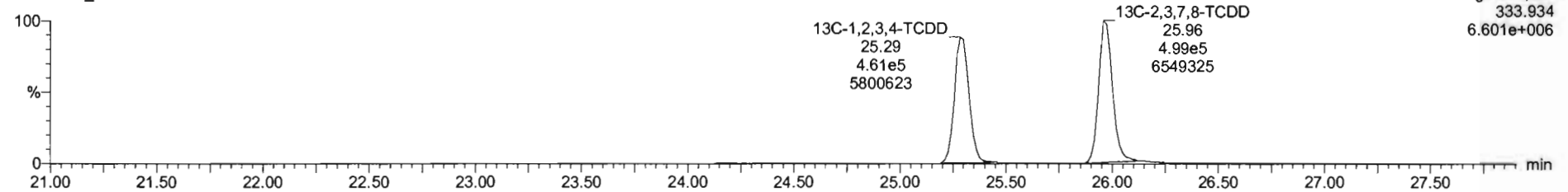


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200507R1_7



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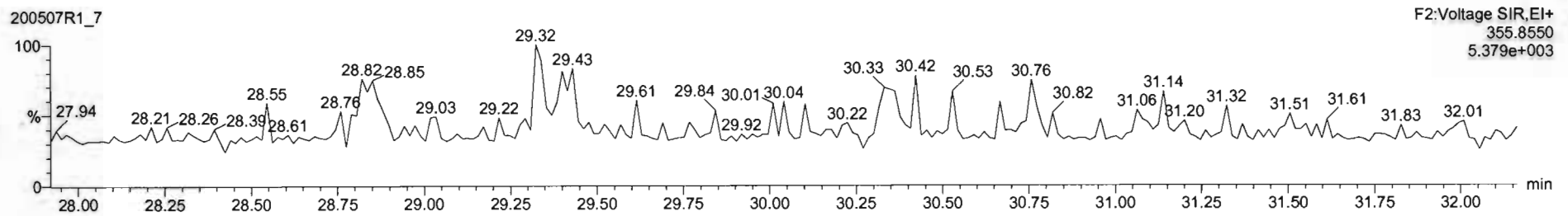
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1,2,3,7,8-PeCDD

200507R1_7

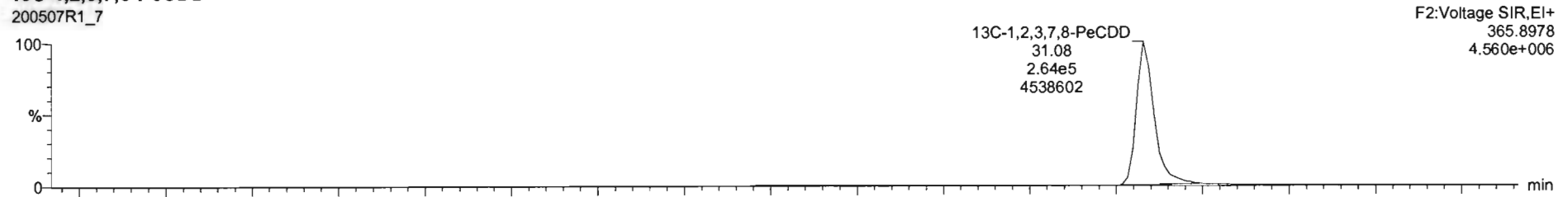


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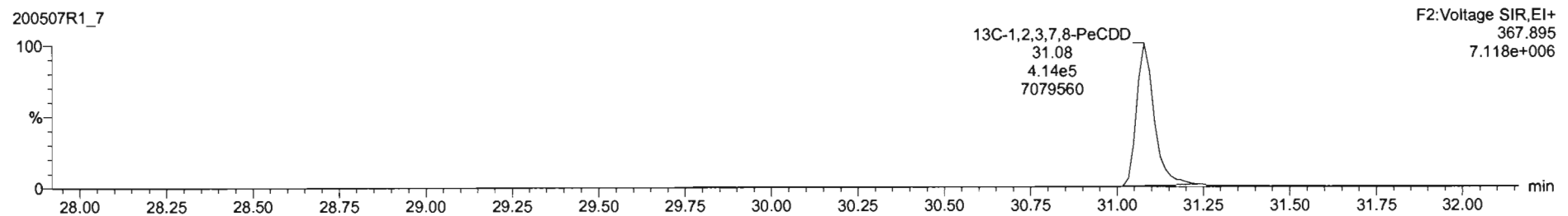


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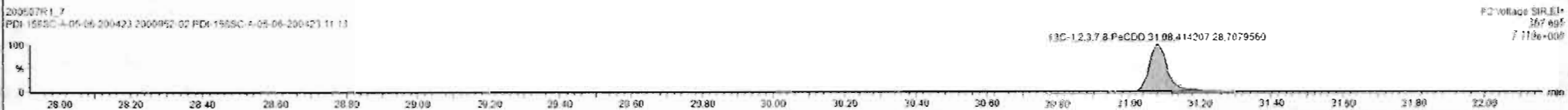
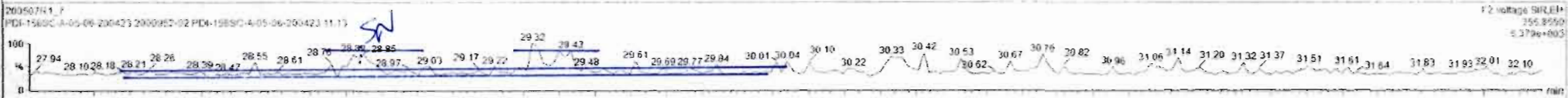
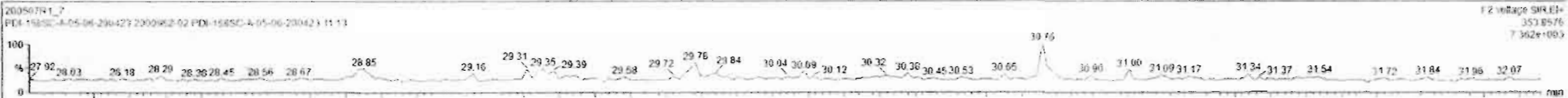


200507R1_7



Name	Reap	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.063					0.0573	
40 Total Penta-Dioxins				0.9425	10.063					0.0354	
41 Total Hexa-Dioxins				0.9145	10.063			2.42		0.129	2.42
42 Total Hepta-Dioxins				0.8575	10.063			3.50		0.346	5.54
43 Total Tetra-Furans				0.7871	10.063					0.0411	

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



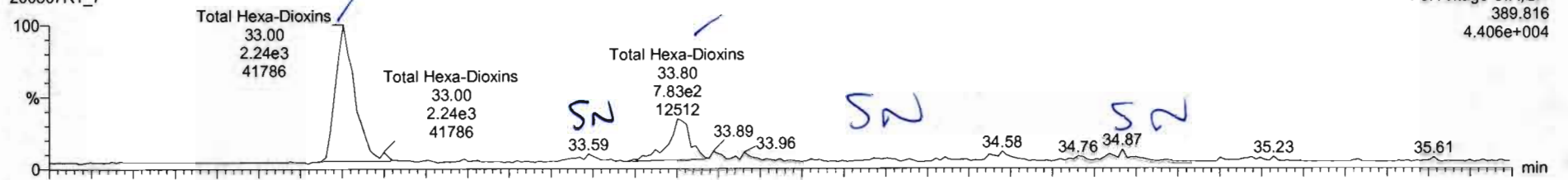
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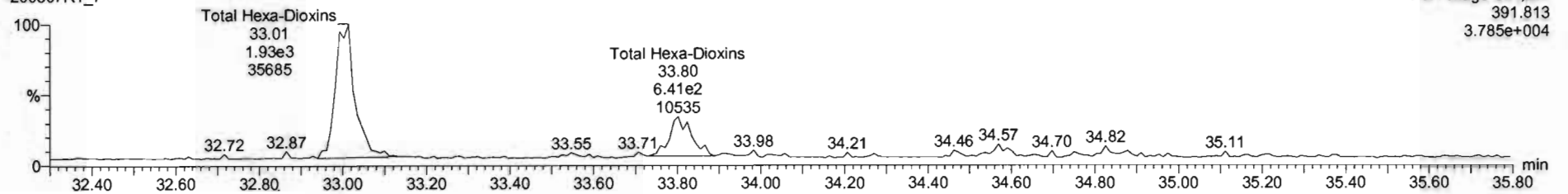
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1,2,3,4,7,8-HxCDD

200507R1_7

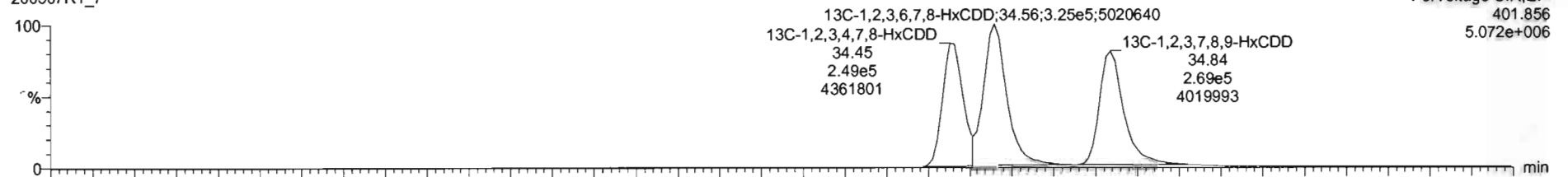


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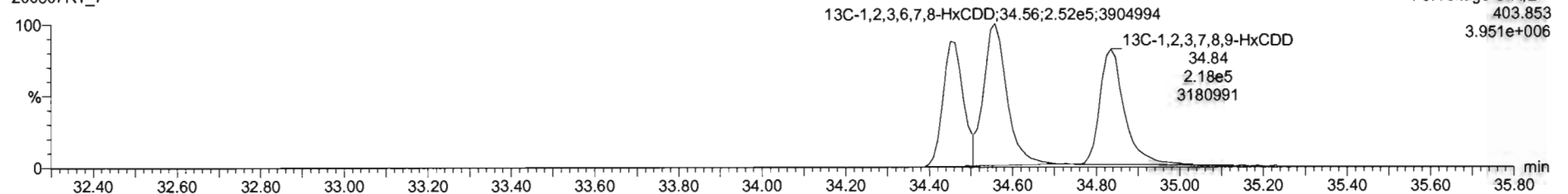


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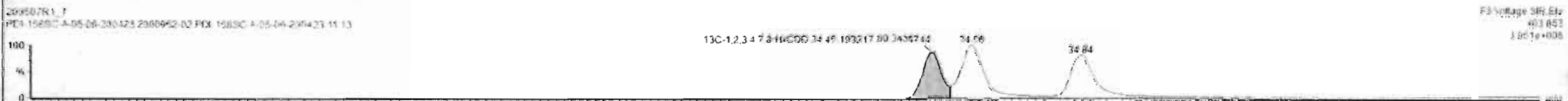
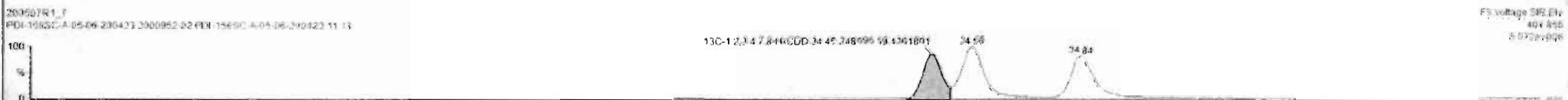
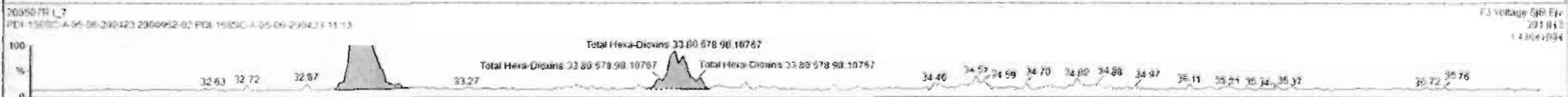
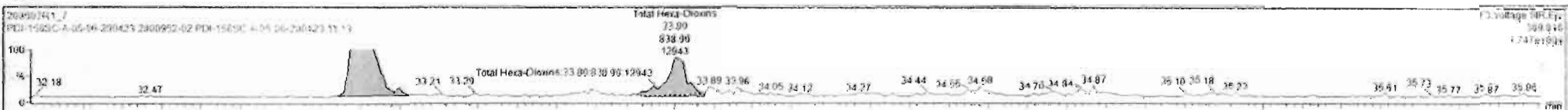


200507R1_7



Name	Resp	RA	ny	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.3475	10.063					0.0573	
40 Total Penta-Dioxins				0.9425	10.063					0.0354	
41 Total Hexa-Dioxins				0.9145	10.063			2.46		0.129	2.46
42 Total Hepta-Dioxins				0.8974	10.063			7.50		0.346	7.54
43 Total Tetra-Furans				0.7871	10.063					0.0411	

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1 Total Hexa-Dioxins	33.80	8.369e2	6.790e2	1.24	NO	0.65719	0.65719
2 Total Hexa-Dioxins	33.00	2.243e3	1.529e3	1.1E	NO	1.6063	1.5063



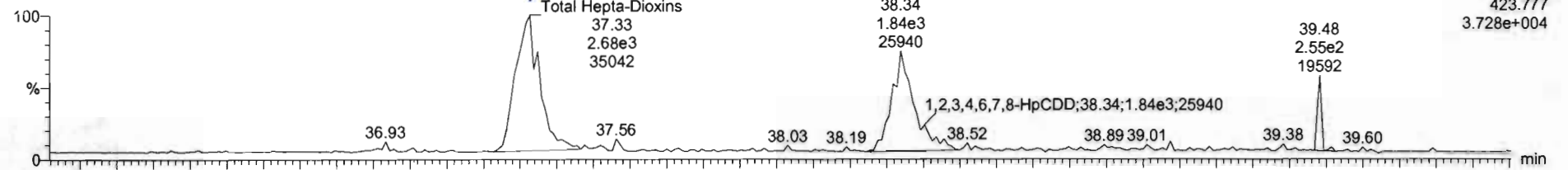
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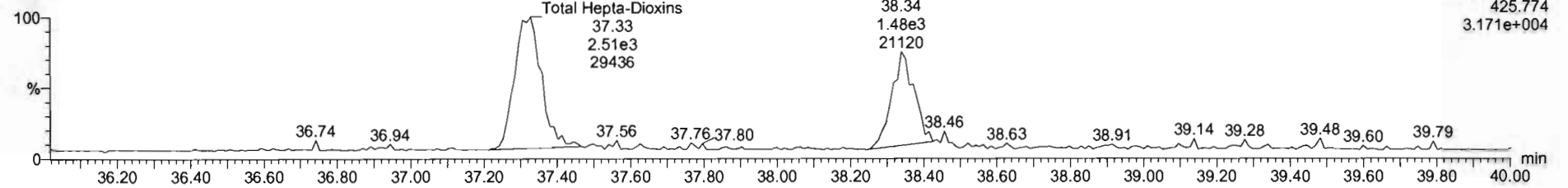
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1,2,3,4,6,7,8-HpCDD

200507R1_7

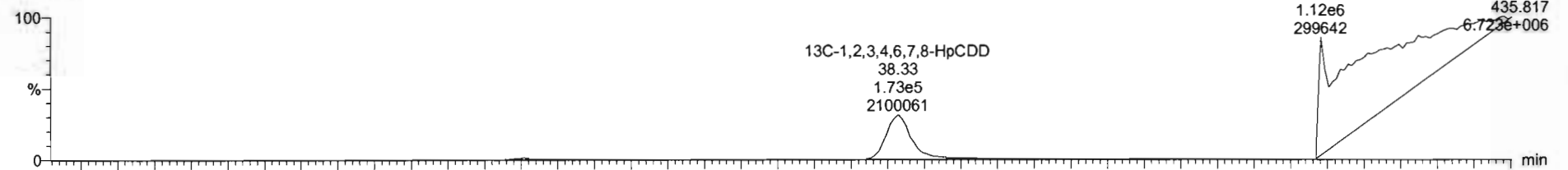


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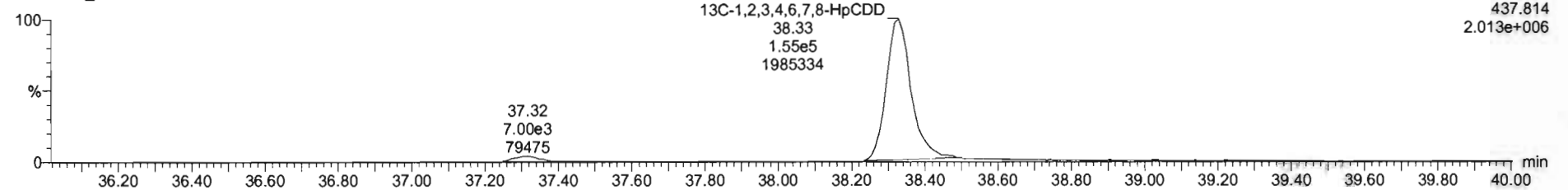


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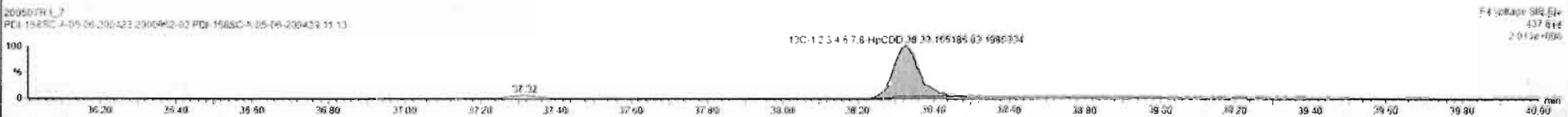
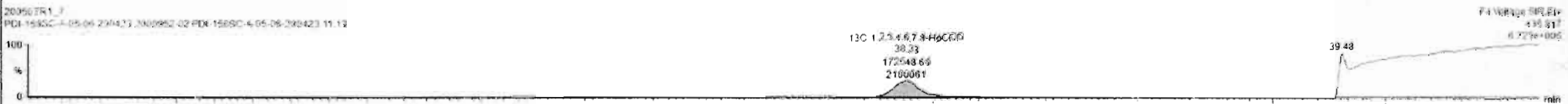
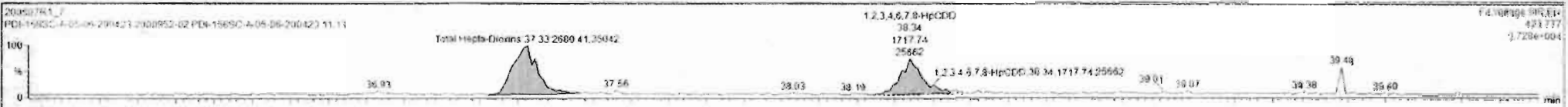


200507R1_7



Name	Resp	RA	nly	RRF	wchof	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9475	10.063					0.0573	
40	Total Penta-Dioxins			0.9425	10.063					0.0354	
41	Total Hexa-Dioxins			0.9145	10.063			2.46		8.129	2.46
42	Total Hepta-Dioxins			0.6979	10.063			5.71		8.368	5.71
43	Total Tetra-Furans			0.7571	10.063					0.0411	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDD	38.34	1.718e3	1.554e3	1.11	NO	2.2099
2	Total Hepta-Dioxine	37.33	2.880e3	2.509e3	1.07	NO	3.5045

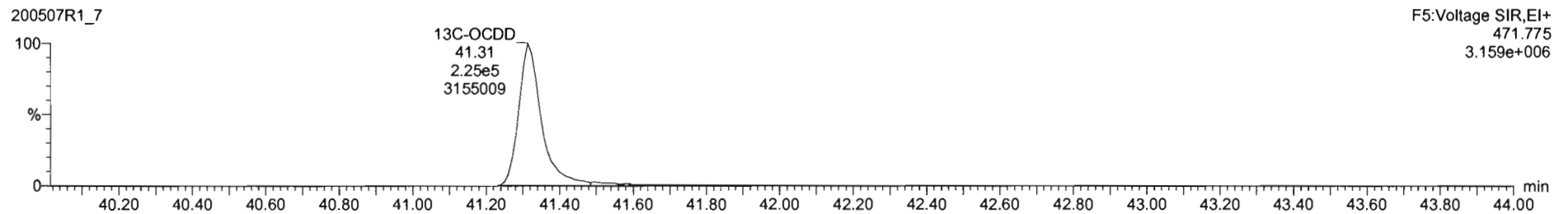
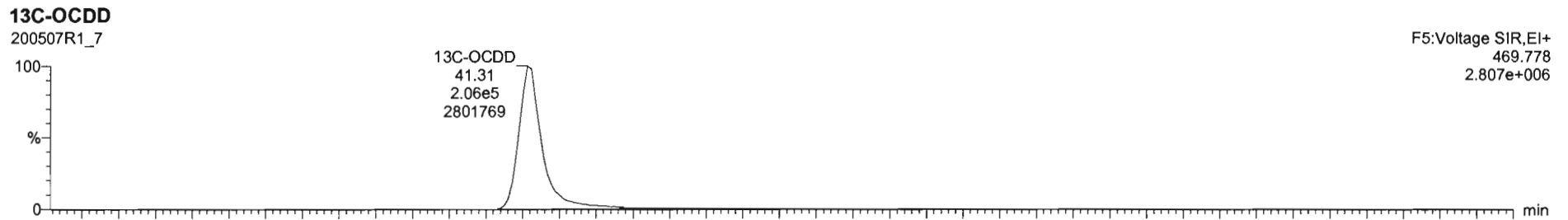
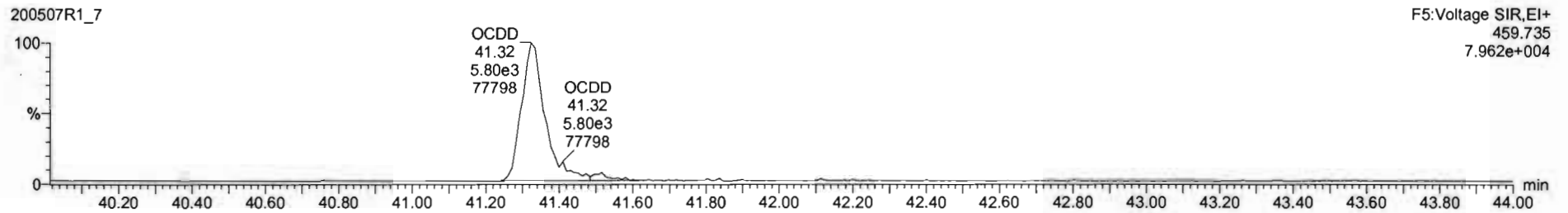
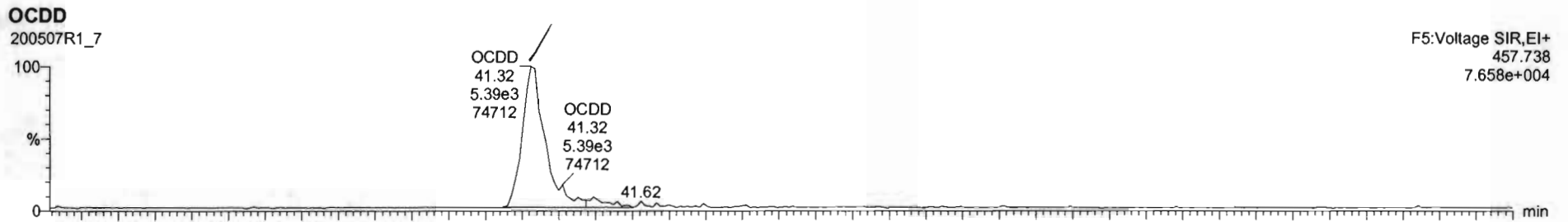


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Printed: Thursday, May 07, 2020 1:38:41 PM Pacific Daylight Time

Name: 200507R1_7, Date: 07-May-2020, Time: 12:49:11, ID: 2000952-02 PDI-158SC-A-05-06-200423 11.13, Description: PDI-158SC-A-05-06-200423



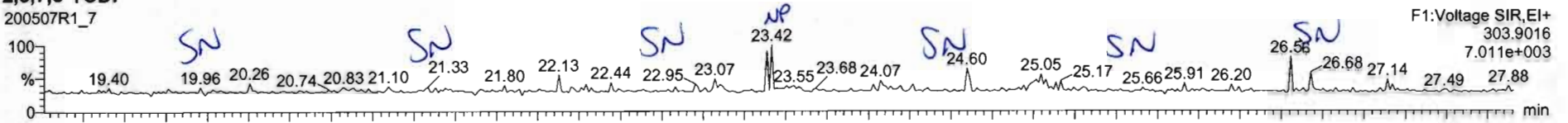
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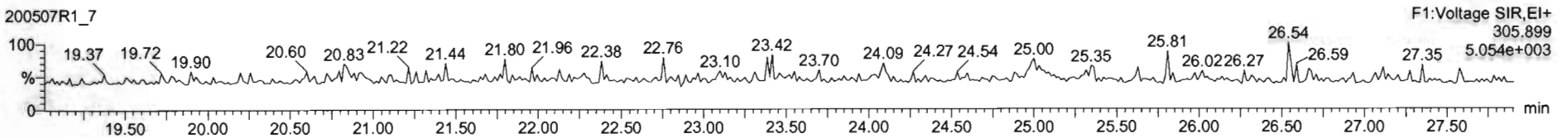
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2,3,7,8-TCDF

200507R1_7

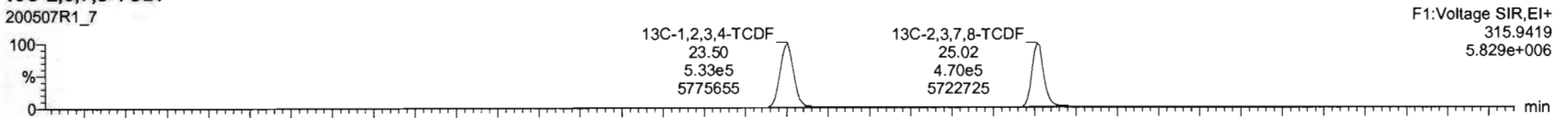


200507R1_7

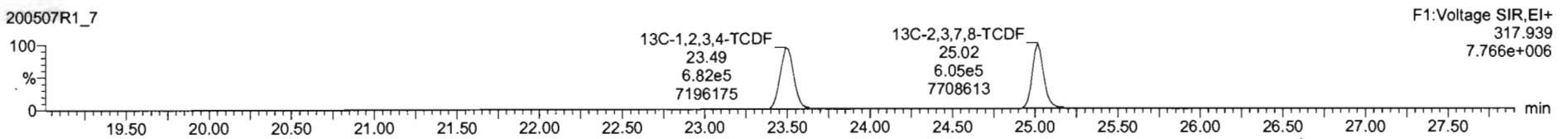


13C-2,3,7,8-TCDF

200507R1_7

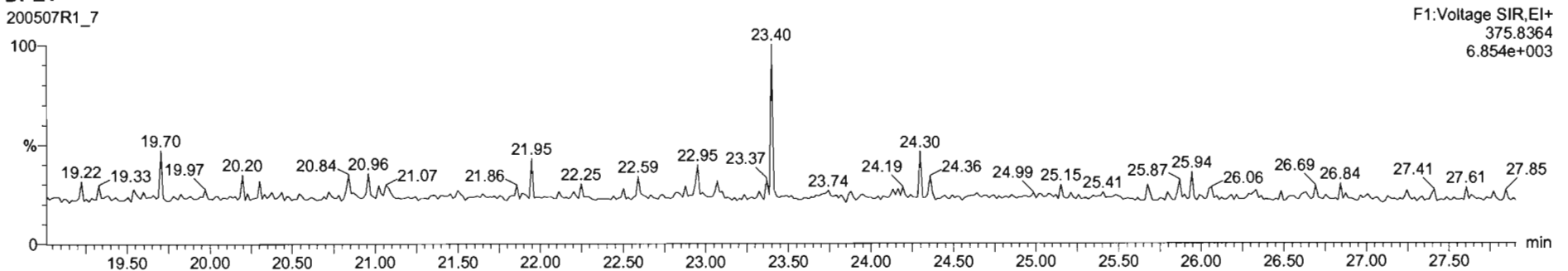


200507R1_7



DPE1

200507R1_7



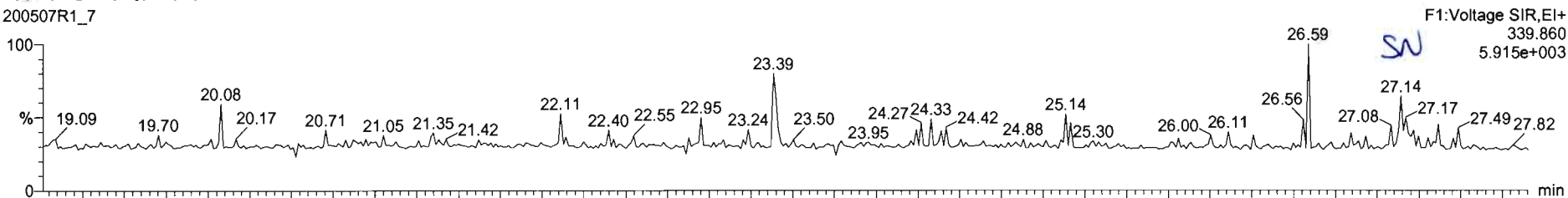
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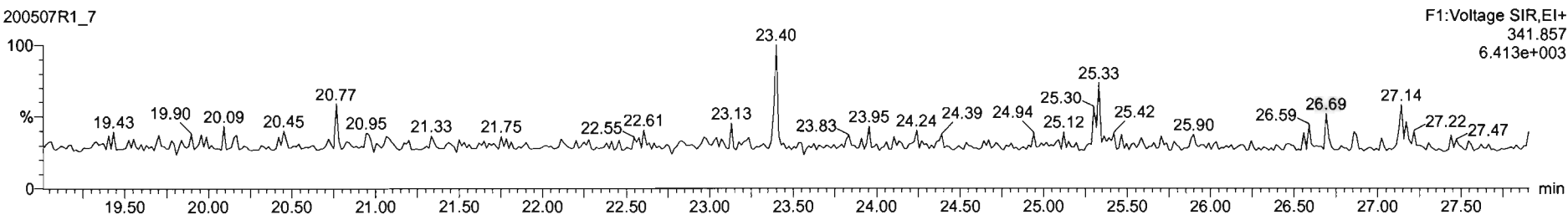
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1st Func. Penta-Furans

200507R1_7

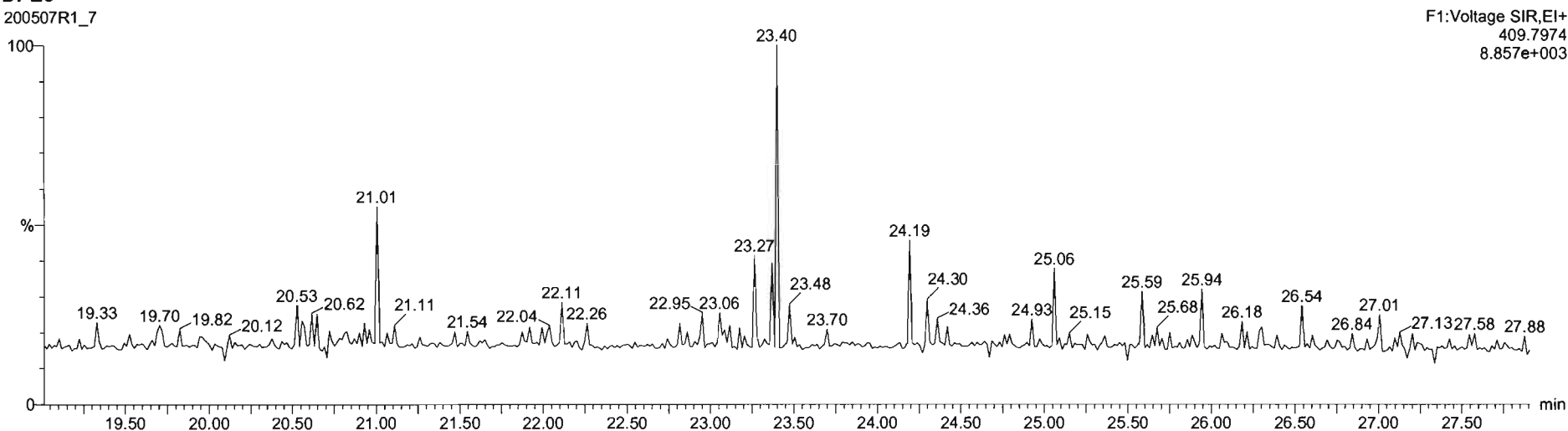


200507R1_7



DPE6

200507R1_7



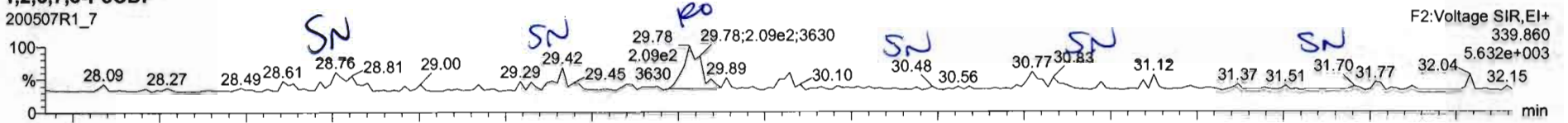
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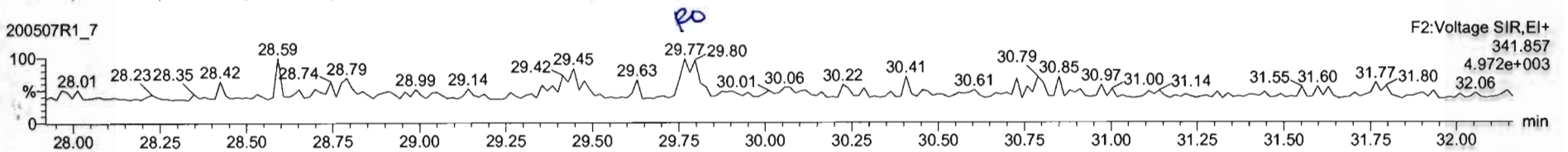
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1,2,3,7,8-PeCDF

200507R1_7

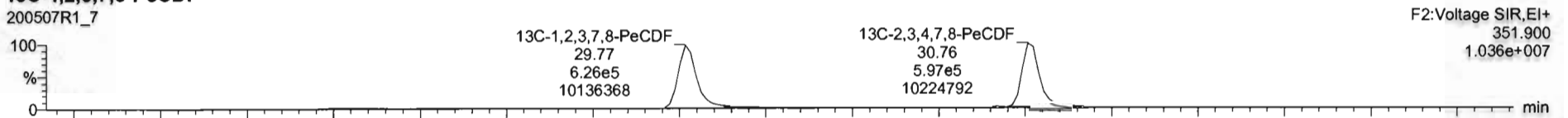


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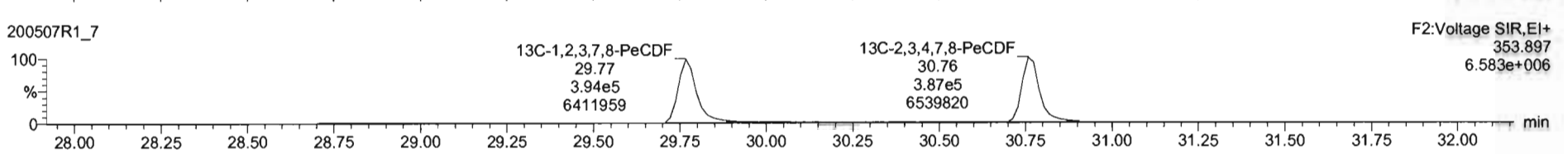


13C-1,2,3,7,8-PeCDF

200507R1_7

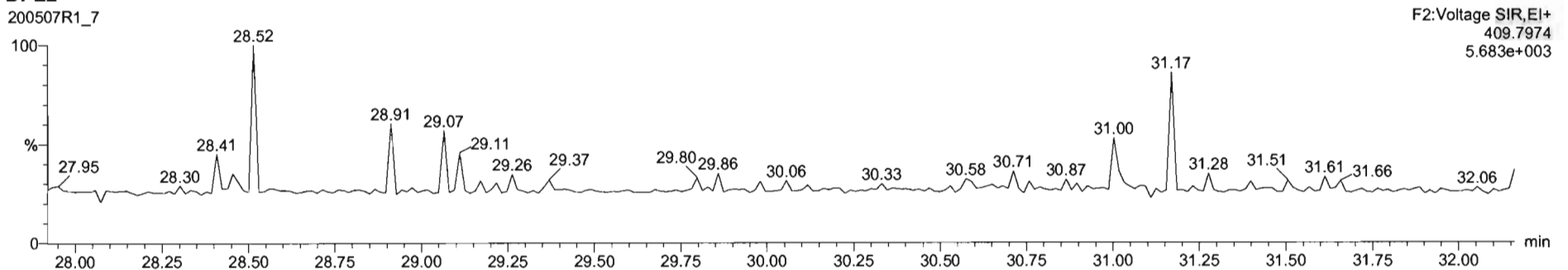


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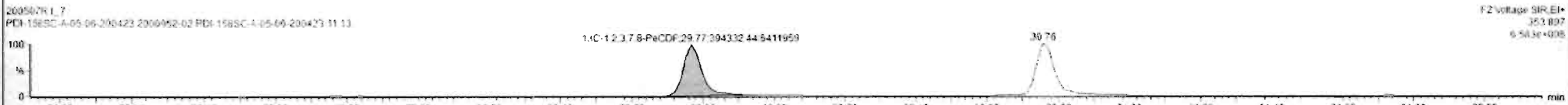
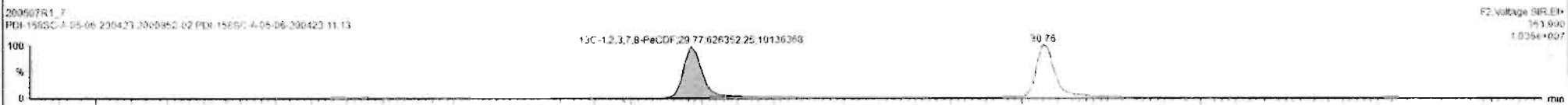
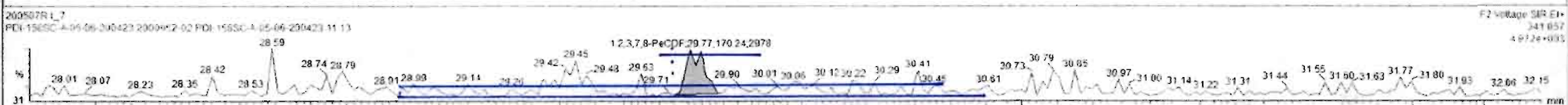
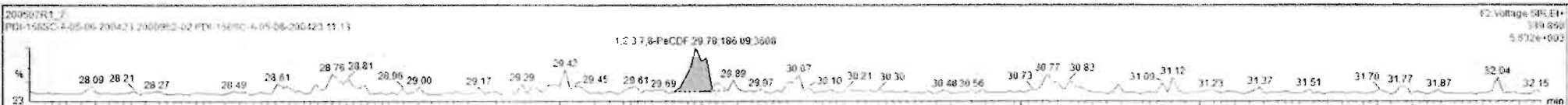
DPE2

200507R1_7



Name	Resp	RA	n/y	RF	wAol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9182	10.063			0.000		0.0279	0.0655
46 Total Hexa-Furans				0.9217	10.063					0.0338	
47 Total Hepta-Furans				0.8712	10.063					0.0761	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,7,8-PeCDF	29.78	1.861e2	1.702e2	1.09	YES	0.065492	0.00900

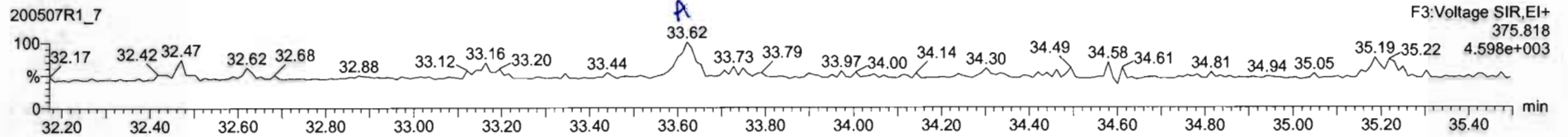
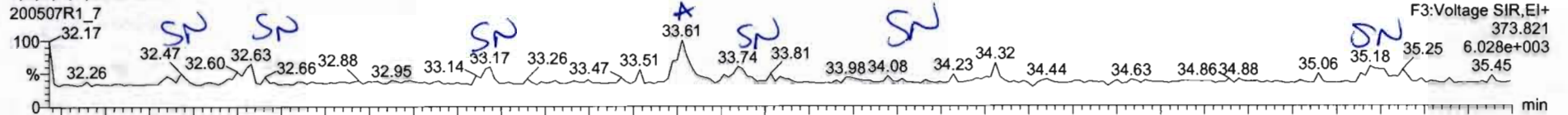


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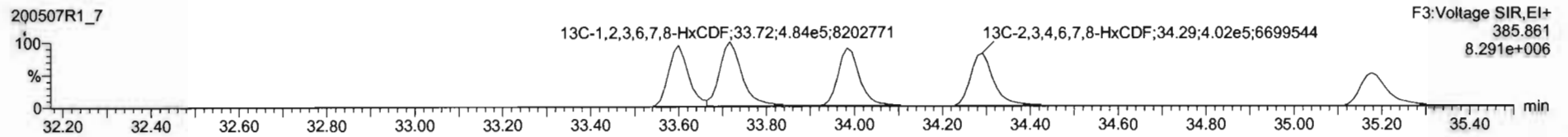
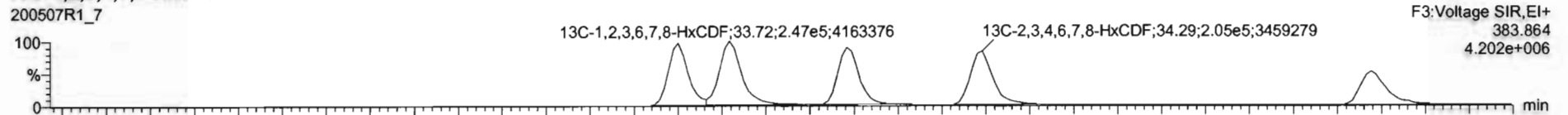
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Printed: Thursday, May 07, 2020 1:38:41 PM Pacific Daylight Time

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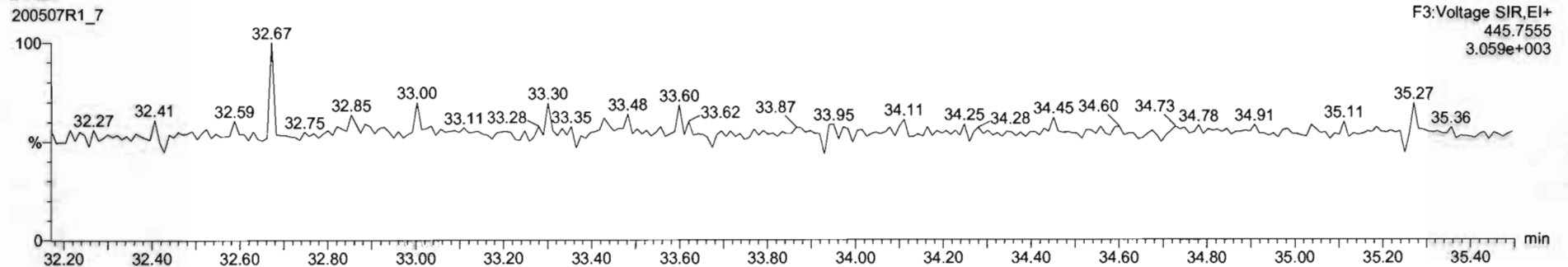
1,2,3,4,7,8-HxCDF



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

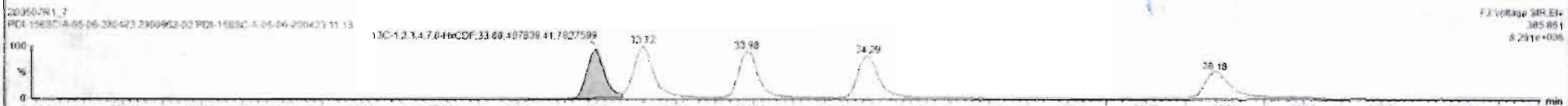
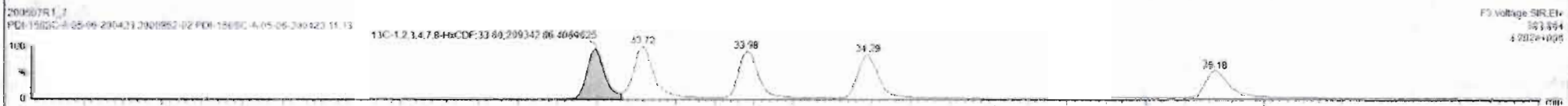
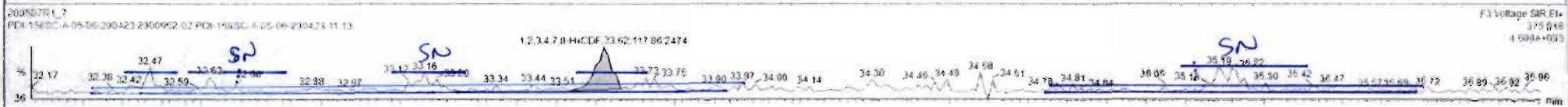
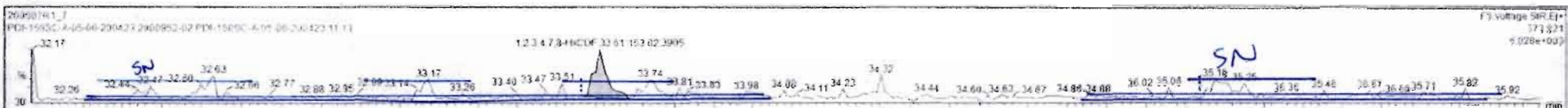


DPE3



K1	Name	Resp	RA	n/y	RRF	wbvol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Hexa-Furans				0.9102	10.063			0.060	0.0279	0.0654	
46	Total Hepta-Furans				0.8217	10.063			0.0953	0.0333	0.0983	
47	Total Hexa-Furans				0.8712	10.063					0.0761	
48	PFK1											
49	PFK2											

K1	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	1,2,3,4,7,8-HxCDF	33.61	1.536e2	1.179e2	1.30	NO	0.099214	0.099214



Dataset: Untitled

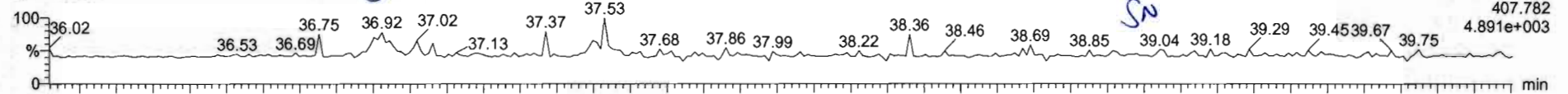
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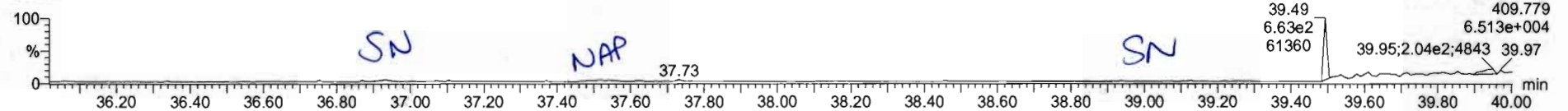
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1,2,3,4,6,7,8-HpCDF

200507R1_7

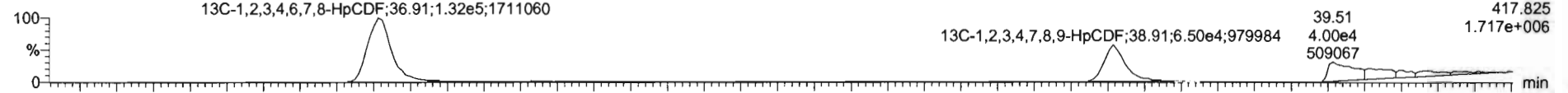


200507R1_7

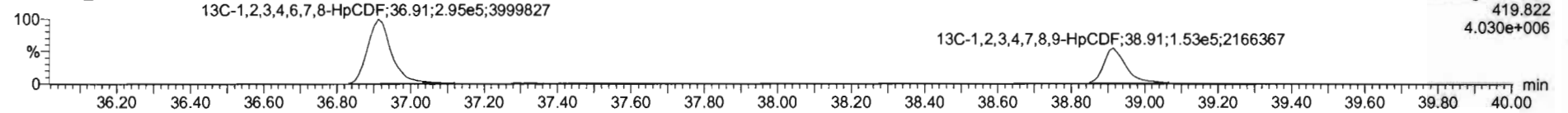


13C-1,2,3,4,6,7,8-HpCDF

200507R1_7

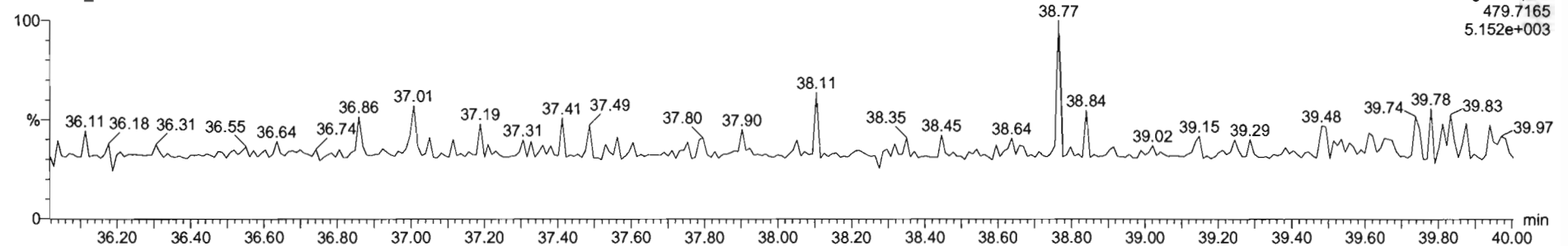


200507R1_7



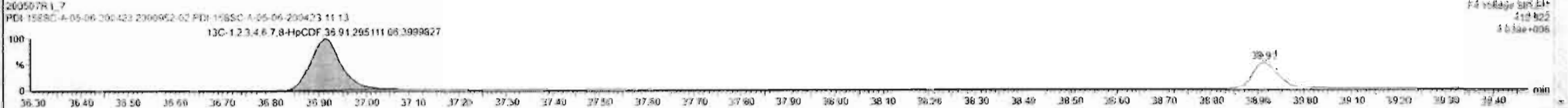
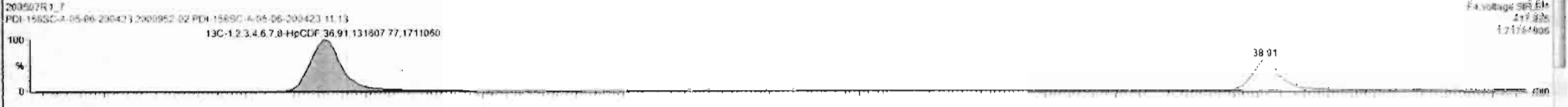
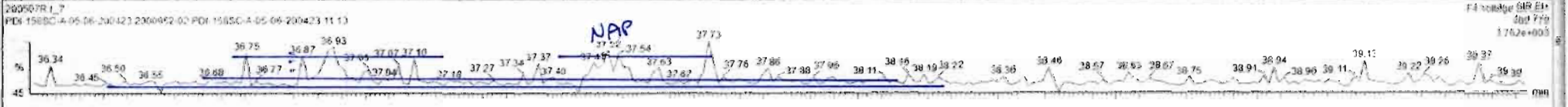
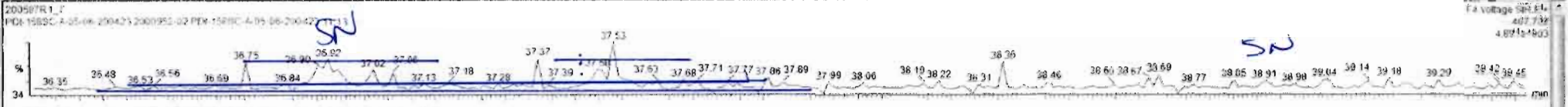
DPE4

200507R1_7



SI	Name	Resp	RA	nly	RRF	wVvdI	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9102	10.063			0.000	0.0279	0.0615	
46	Total Hexa-Furans				0.9217	10.063			0.0952	0.0338	0.0962	
47	Total Hepta-Furans				0.8712	10.063				6.0781		
48	PFK1											
49	PFK2											

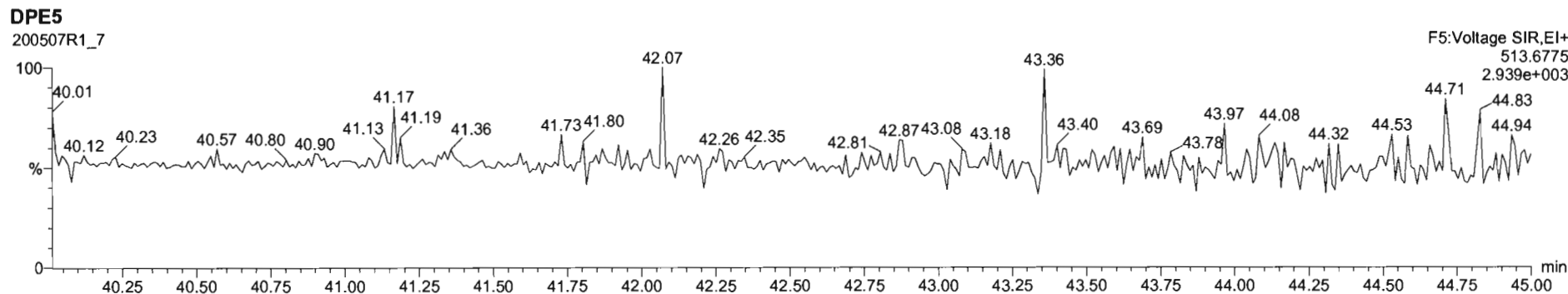
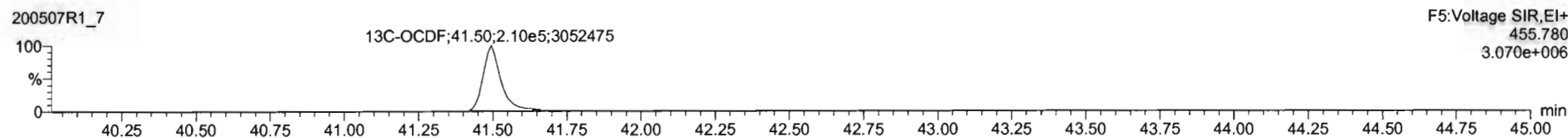
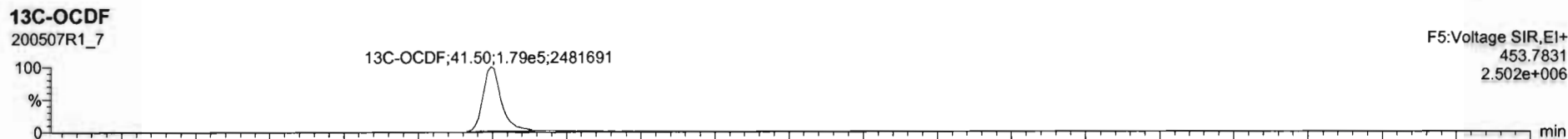
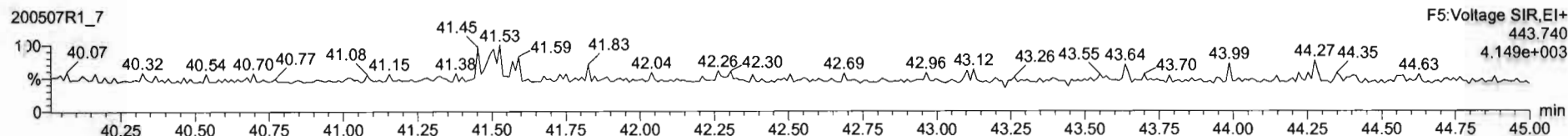
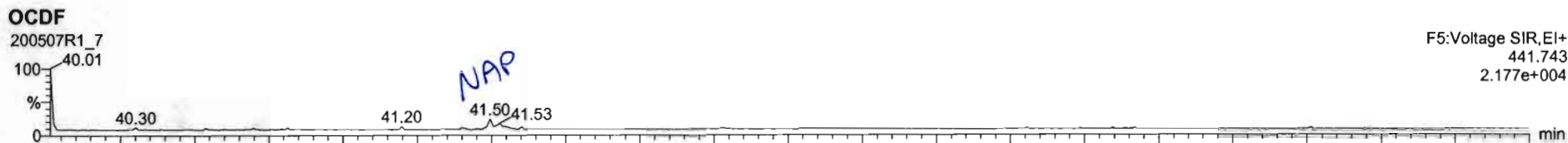
SI	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1								



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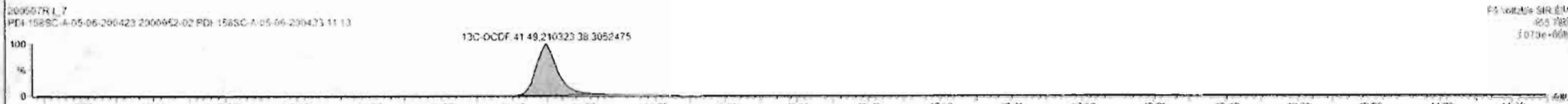
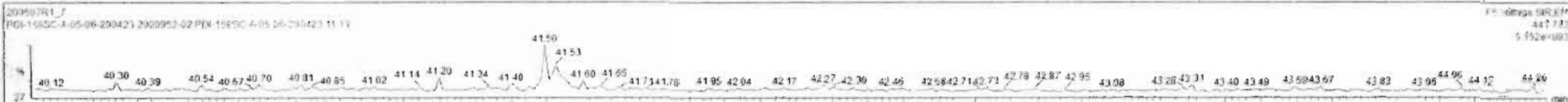
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Name: 200507R1_7, Date: 07-May-2020, Time: 12:49:11, ID: 2000952-02 PDI-158SC-A-05-06-200423 11.13, Description: PDI-158SC-A-05-06-200423



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
17 OCDF			NO	0.6021	10.063					0.221	
18 13C-2,3,7,8-TCDD	8.93e5	0.79	NO	1.1556	10.063	25.96	1.026	186	93.7	0.268	
19 13C-1,2,3,7,8-PeCDD	6.78e5	0.64	NO	0.8472	10.063	31.55	1.220	194	97.4	0.444	
20 13C-1,2,3,4,7,8-HxCDD	4.47e5	1.29	NO	0.7499	10.063	34.45	1.014	193	97.0	0.659	
21 13C-1,2,3,6,7,8-HxCDD	5.76e5	1.79	NO	0.9630	10.063	34.56	1.617	196	96.7	0.544	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1							



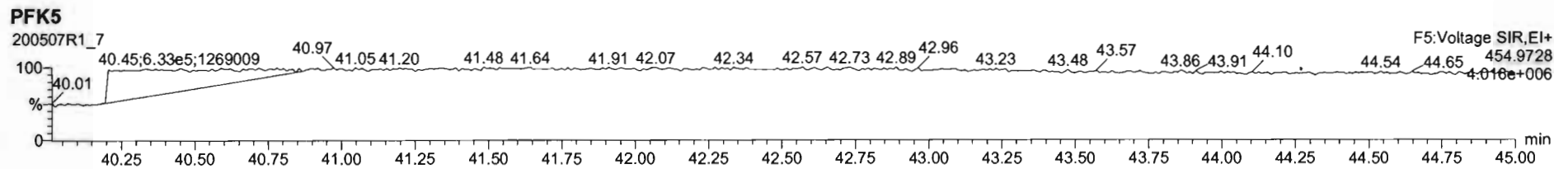
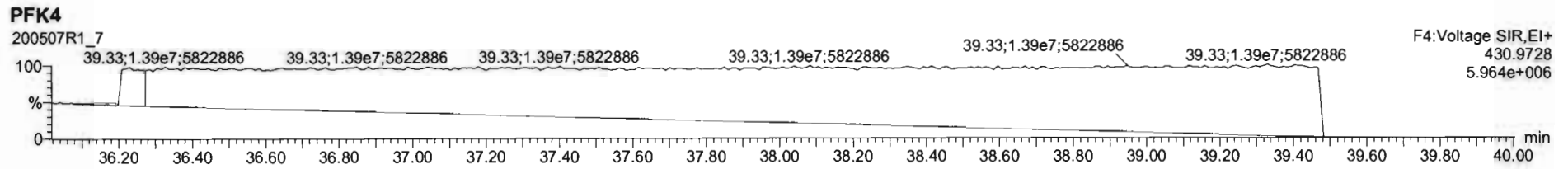
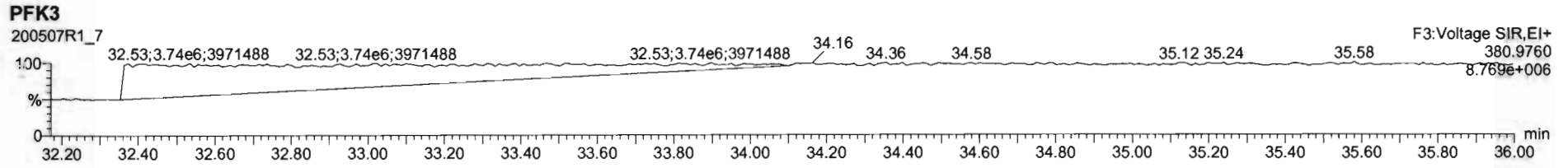
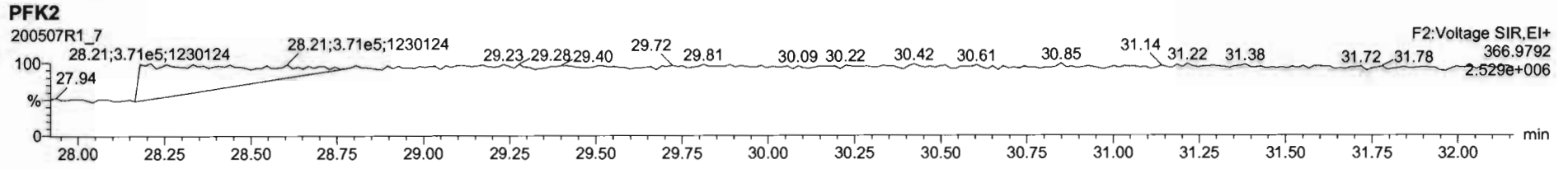
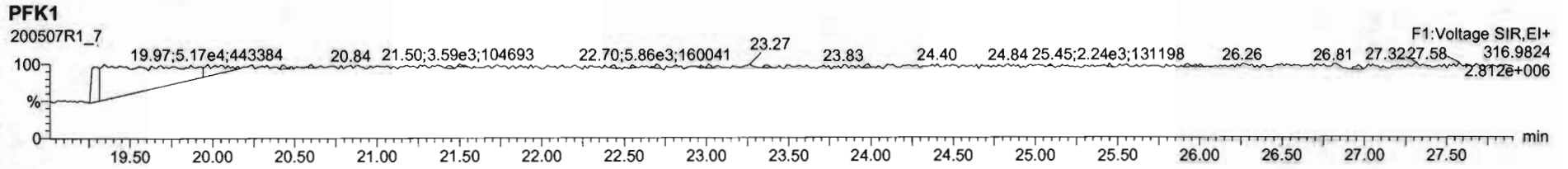
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Printed: Thursday, May 07, 2020 1:38:41 PM Pacific Daylight Time

Name: 200507R1_7, Date: 07-May-2020, Time: 12:49:11, ID: 2000952-02 PDI-158SC-A-05-06-200423 11.13, Description: PDI-158SC-A-05-06-200423



Dataset: U:\VG12.PRO\Results\200507R2\200507R2-3.qld

Last Altered: Friday, May 08, 2020 11:50:22 AM Pacific Daylight Time
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GPB 05/08/2020

CT 05/14/2020

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

Name: 200507R2_3, Date: 07-May-2020, Time: 16:05:36, ID: 2000952-03 PDI-158SC-A-06-07-200423 12.38, Description: PDI-158SC-A-06-07-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.025	26.006		1.001				0.0900	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.025	31.116		1.001				0.0899	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.025	34.473		1.000				0.131	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.025	34.569		1.000				0.133	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.025	34.856		1.000				0.150	
6	6 1,2,3,4,6,7,8-HpCDD	1.01e3	1.03	NO	0.898	10.025	38.352	38.36	1.000	1.001	0.83285		0.204	0.833
7	7 OCDD	7.57e3	0.94	NO	0.933	10.025	41.332	41.34	1.000	1.000	8.6615		0.165	8.66
8	8 2,3,7,8-TCDF			NO	0.787	10.025	25.057		1.001				0.0690	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.025	29.803		1.001				0.0881	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.025	30.805		1.001				0.0855	
11	11 1,2,3,4,7,8-HxCDF	3.18e2	1.22	NO	0.878	10.025	33.611	33.63	1.000	1.001	0.14141		0.0435	0.141
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.025	33.738		1.000				0.0804	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.025	34.326		1.001				0.0912	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.025	35.187		1.000				0.163	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.025	36.949		1.001				0.0864	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.025	38.925		1.000				0.141	
17	17 OCDF	1.67e2	0.60	YES	0.802	10.025	41.514	41.52	1.000	1.000	0.23084		0.127	0.184
18	18 13C-2,3,7,8-TCDD	8.25e5	0.79	NO	1.16	10.025	25.969	25.98	1.026	1.027	201.17	101	0.404	
19	19 13C-1,2,3,7,8-PeCDD	5.79e5	0.63	NO	0.847	10.025	31.049	31.09	1.227	1.229	193.24	96.9	0.422	
20	20 13C-1,2,3,4,7,8-HxCDD	3.65e5	1.28	NO	0.750	10.025	34.473	34.46	1.014	1.014	192.39	96.4	0.839	
21	21 13C-1,2,3,6,7,8-HxCDD	4.94e5	1.28	NO	0.963	10.025	34.585	34.57	1.017	1.017	202.84	102	0.654	
22	22 13C-1,2,3,7,8,9-HxCDD	4.08e5	1.21	NO	0.838	10.025	34.854	34.85	1.025	1.025	192.80	96.6	0.751	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.02	NO	0.641	10.025	38.342	38.34	1.128	1.128	166.23	83.3	1.05	
24	24 13C-OCDD	3.73e5	0.89	NO	0.586	10.025	41.333	41.33	1.216	1.216	251.91	63.1	0.504	
25	25 13C-2,3,7,8-TCDF	9.78e5	0.80	NO	1.03	10.025	25.030	25.03	0.989	0.989	175.37	87.9	0.595	
26	26 13C-1,2,3,7,8-PeCDF	8.72e5	1.62	NO	0.845	10.025	29.741	29.78	1.176	1.177	191.37	95.9	1.08	
27	27 13C-2,3,4,7,8-PeCDF	8.36e5	1.58	NO	0.814	10.025	30.731	30.77	1.215	1.216	190.45	95.5	1.12	
28	28 13C-1,2,3,4,7,8-HxCDF	5.12e5	0.50	NO	1.00	10.025	33.613	33.61	0.989	0.989	201.34	101	1.08	
29	29 13C-1,2,3,6,7,8-HxCDF	6.20e5	0.51	NO	1.14	10.025	33.736	33.73	0.992	0.992	215.82	108	0.954	
30	30 13C-2,3,4,6,7,8-HxCDF	5.17e5	0.51	NO	1.02	10.025	34.303	34.29	1.009	1.009	199.91	100	1.06	
31	31 13C-1,2,3,7,8,9-HxCDF	3.61e5	0.51	NO	0.845	10.025	35.194	35.19	1.035	1.035	168.82	84.6	1.28	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-3.qld

Last Altered: Friday, May 08, 2020 11:50:22 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 11:52:49 AM Pacific Daylight Time

Name: 200507R2_3, Date: 07-May-2020, Time: 16:05:36, ID: 2000952-03 PDI-158SC-A-06-07-200423 12.38, Description: PDI-158SC-A-06-07-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.66e5	0.44	NO	0.771	10.025	36.924	36.91	1.086	1.086	187.63	94.0	0.989	
33	13C-1,2,3,4,7,8,9-HpCDF	1.76e5	0.42	NO	0.482	10.025	38.933	38.92	1.145	1.145	143.91	72.1	1.58	
34	13C-OCDF	3.60e5	0.87	NO	0.669	10.025	41.503	41.51	1.221	1.221	212.81	53.3	0.464	
35	37Cl-2,3,7,8-TCDD	2.89e5			1.10	10.025	25.999	26.00	1.028	1.028	74.489	93.3	0.0803	
36	13C-1,2,3,4-TCDD	7.06e5	0.79	NO	1.00	10.025	25.350	25.30	1.000	1.000	199.51	100	0.469	
37	13C-1,2,3,4-TCDF	1.08e6	0.81	NO	1.00	10.025	23.560	23.50	1.000	1.000	199.51	100	0.616	
38	13C-1,2,3,4,6,9-HxCDF	5.05e5	0.50	NO	1.00	10.025	34.000	33.99	1.000	1.000	199.51	100	1.08	
39	Total Tetra-Dioxins				0.947	10.025	24.620		0.000				0.0511	
40	Total Penta-Dioxins				0.942	10.025	29.960		0.000				0.0338	
41	Total Hexa-Dioxins				0.915	10.025	33.635		0.000		0.00000		0.0748	0.564
42	Total Hepta-Dioxins				0.898	10.025	37.640		0.000		2.3551		0.204	2.36
43	Total Tetra-Furans				0.787	10.025	23.610		0.000				0.0320	
44	1st Func. Penta-Furans				0.910	10.025	27.090		0.000				0.0216	
45	Total Penta-Furans				0.910	10.025	29.275		0.000				0.0562	
46	Total Hexa-Furans				0.922	10.025	33.555		0.000		0.14141		0.0493	0.141
47	Total Hepta-Furans				0.871	10.025	37.835		0.000				0.0628	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-3.qld

Last Altered: Friday, May 08, 2020 11:50:22 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 11:52:49 AM Pacific Daylight Time

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

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

Name: 200507R2_3, Date: 07-May-2020, Time: 16:05:36, ID: 2000952-03 PDI-158SC-A-06-07-200423 12.38, Description: PDI-158SC-A-06-07-200423

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.03	1.368e4	9.623e3	7.157e2	4.877e2	1.47	YES	0.000e0	0.00000	0.56425	0.144

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.34	1.344e4	1.189e4	9.839e2	8.635e2	1.14	NO	1.847e3	1.5223	1.5223	0.204
2	1,2,3,4,6,7,8-HpCDD	38.36	7.183e3	7.519e3	5.129e2	4.978e2	1.03	NO	1.011e3	0.83285	0.83285	0.204

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\200507R2\200507R2-3.qld

Last Altered: Friday, May 08, 2020 11:50:22 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 11:52:49 AM Pacific Daylight Time

Name: 200507R2_3, Date: 07-May-2020, Time: 16:05:36, ID: 2000952-03 PDI-158SC-A-06-07-200423 12.38, Description: PDI-158SC-A-06-07-200423

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,7,8-HxCDF	33.63	4.406e3	3.855e3	1.750e2	1.434e2	1.22	NO	3.185e2	0.14141	0.14141	0.0435

Hepta-Furans

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

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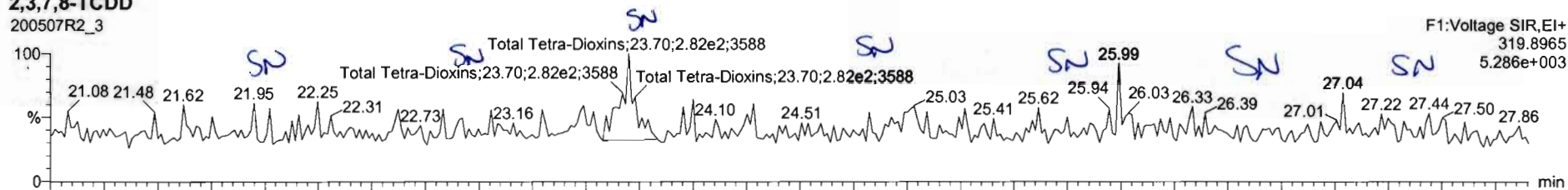
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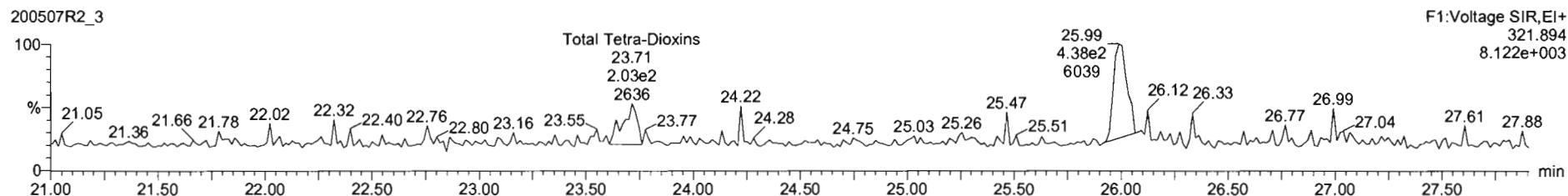
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2,3,7,8-TCDD

200507R2_3

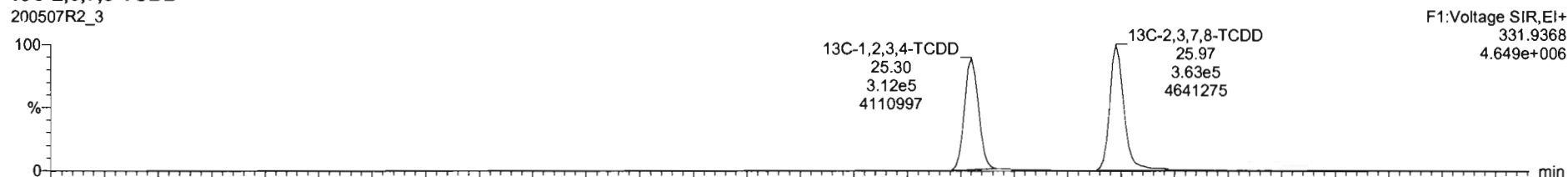


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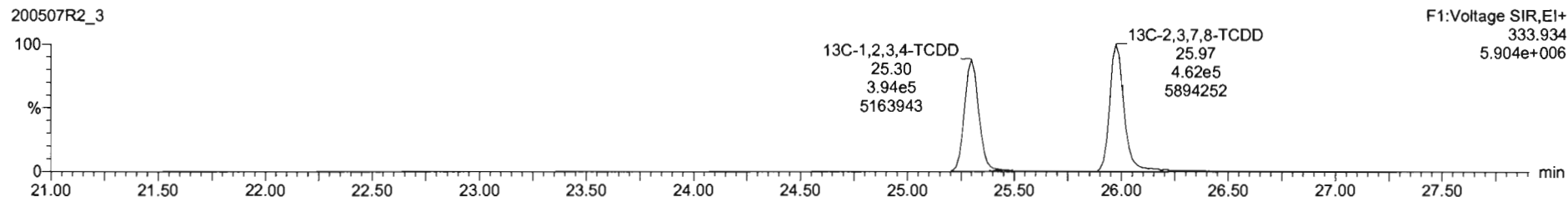


13C-2,3,7,8-TCDD

200507R2_3



200507R2_3



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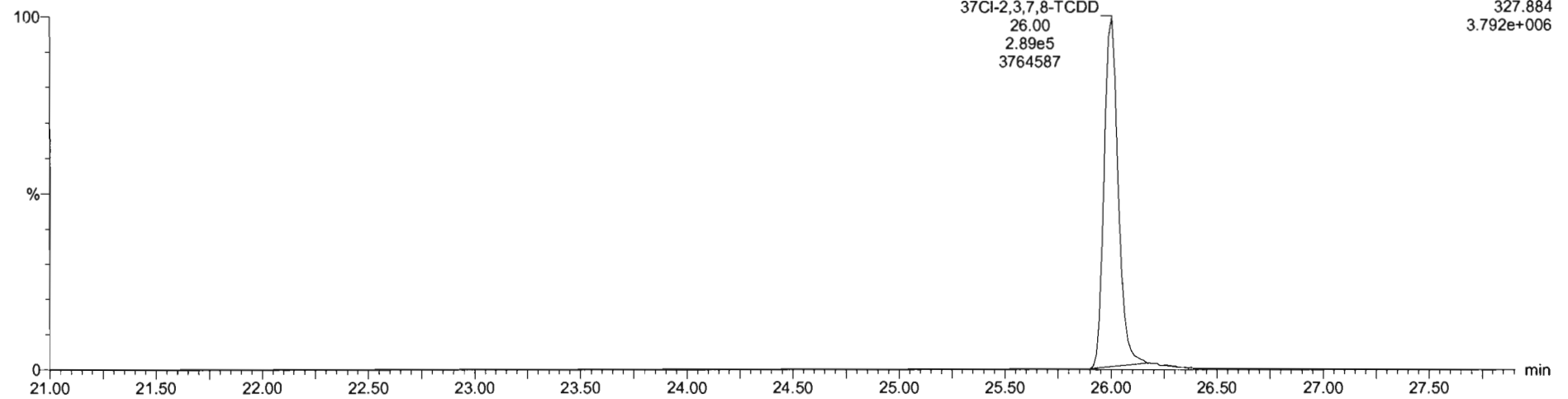
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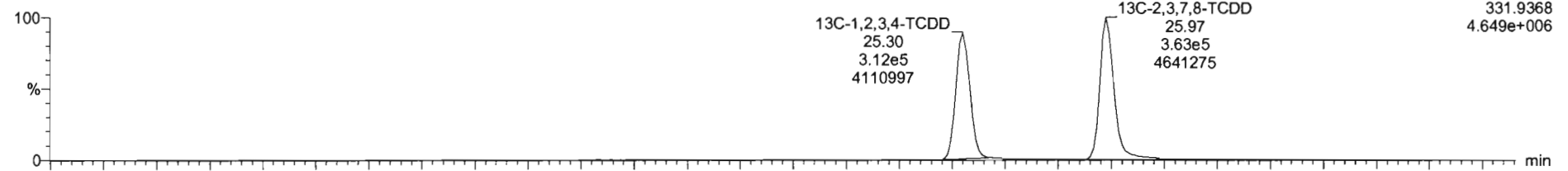
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200507R2_3

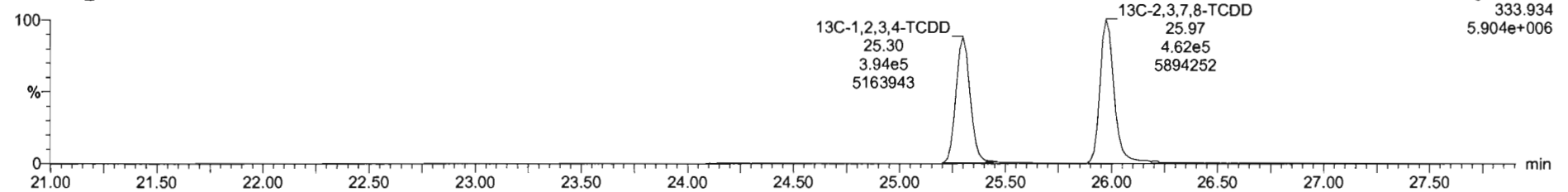


13C-1,2,3,4-TCDD

200507R2_3



200507R2_3



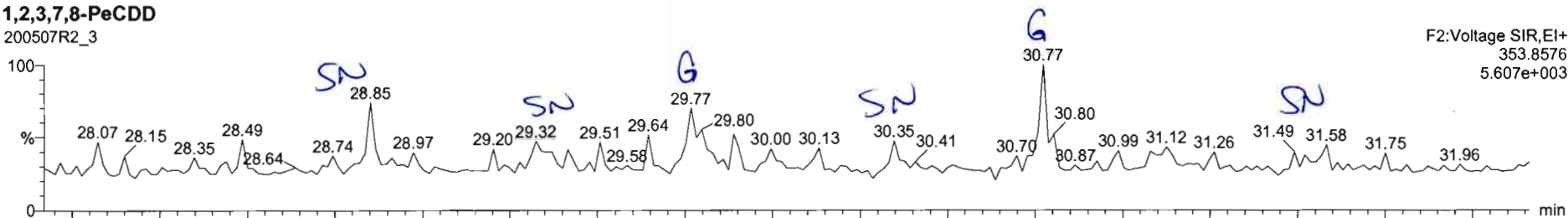
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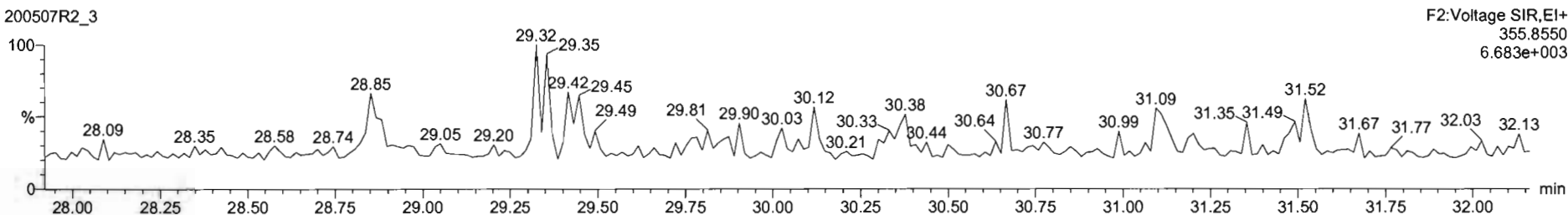
1,2,3,7,8-PeCDD

200507R2_3



F2:Voltage SIR,EI+
353.8576
5.607e+003

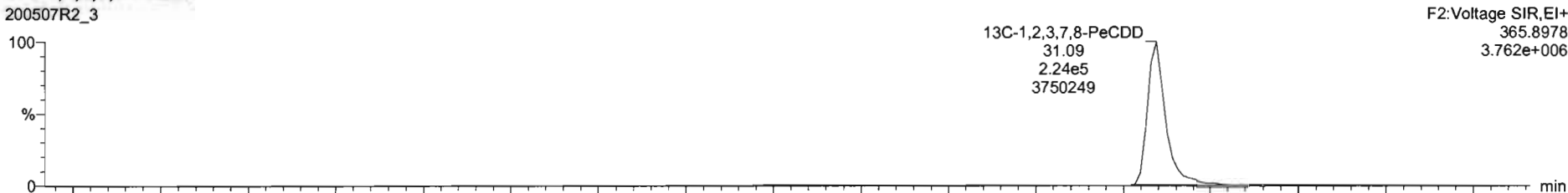
200507R2_3



F2:Voltage SIR,EI+
355.8550
6.683e+003

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

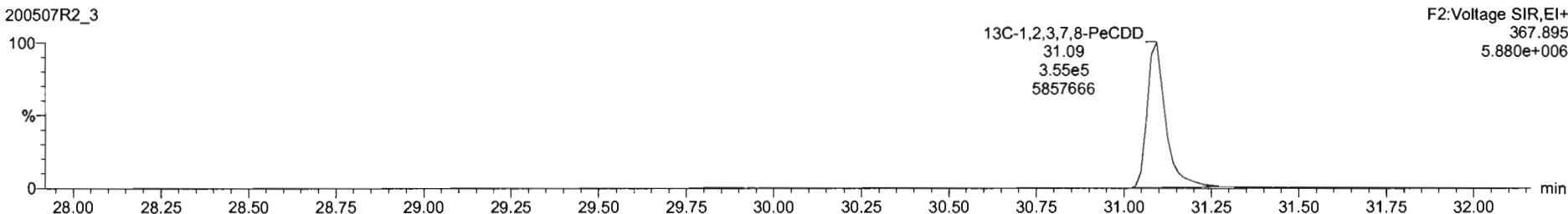
200507R2_3



13C-1,2,3,7,8-PeCDD
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2.24e5
3750249

F2:Voltage SIR,EI+
365.8978
3.762e+006

200507R2_3



13C-1,2,3,7,8-PeCDD
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F2:Voltage SIR,EI+
367.895
5.880e+006

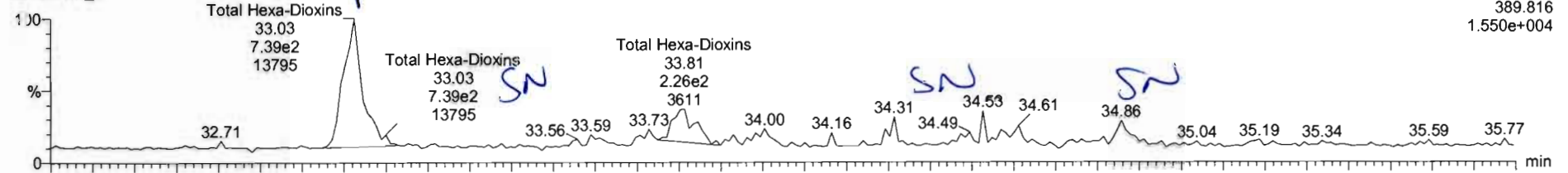
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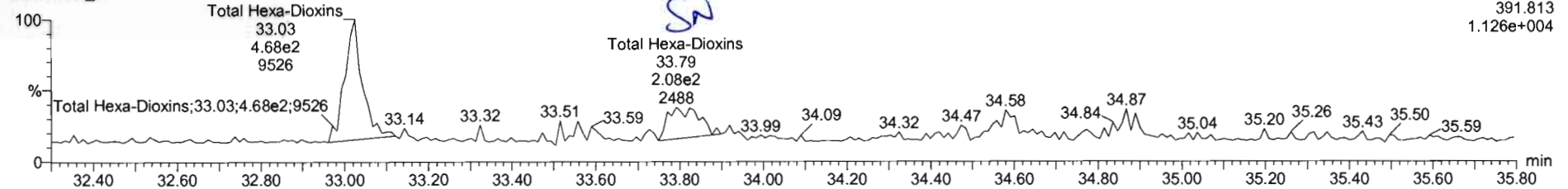
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1,2,3,4,7,8-HxCDD

200507R2_3

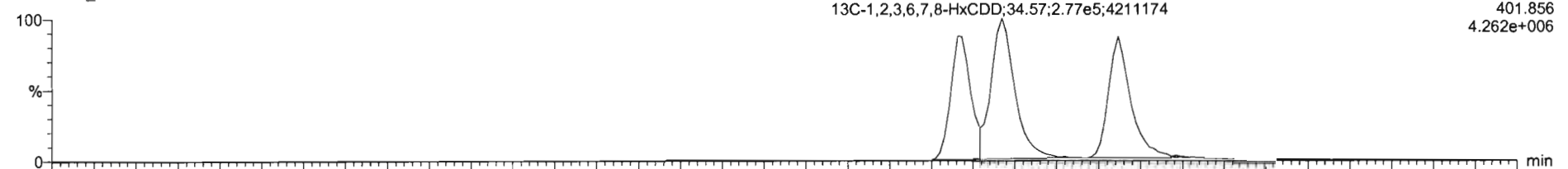


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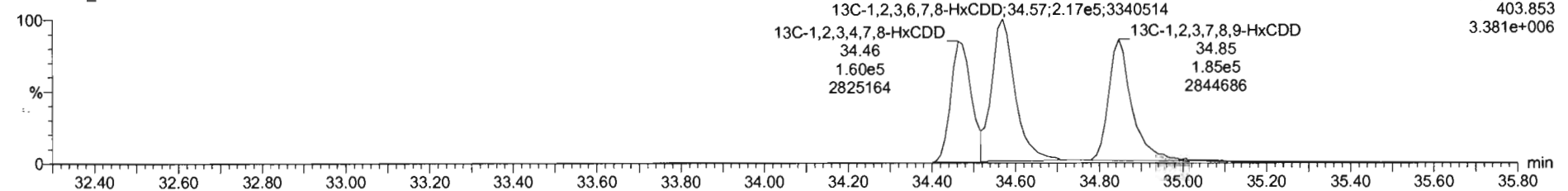


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200507R2_3

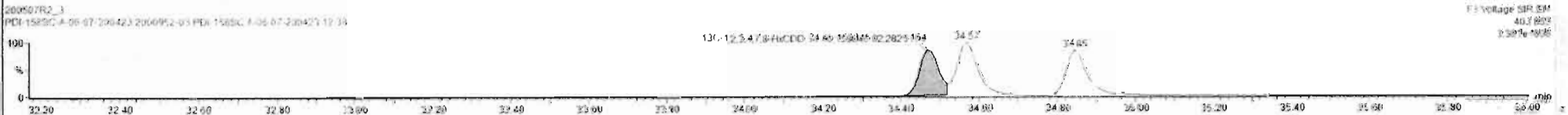
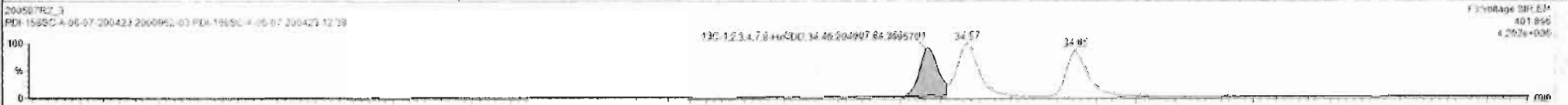
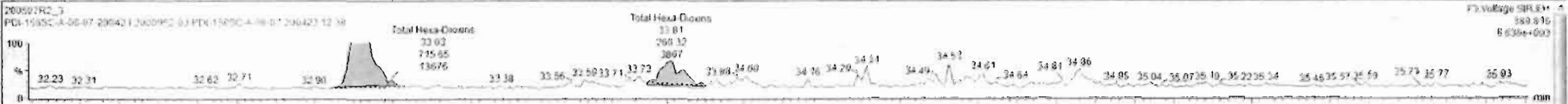


200507R2_3



Name	Resp	RA	rvj	rvr	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9471	10.025					0.0511	
40 Total Penta-Dioxins				0.9425	10.025					0.0338	
41 Total Hexa-Dioxins				0.9145	10.025			0.258		0.144	0.622
42 Total Hepta-Dioxins				0.8975	10.025			0.793		0.204	2.25
43 Total Tetra-Furans				0.7871	10.025					0.0320	

Name	RT	m1 Resp	m2 Resp	RA	rvj	EMPC	Conc
1 Total Hexa-Dioxins	33.03	7.117e2	4.877e2	1.47	YES	0.56425	0.00000
2 Total Hexa-Dioxins	33.81	2.802e2	2.392e2	1.05	NO	0.25800	0.25600



Dataset: Untitled

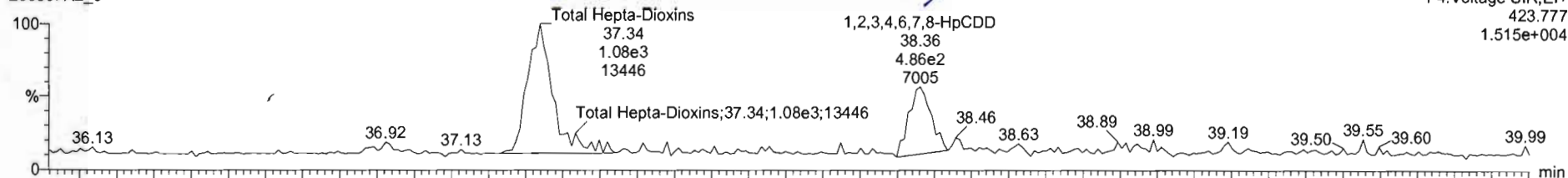
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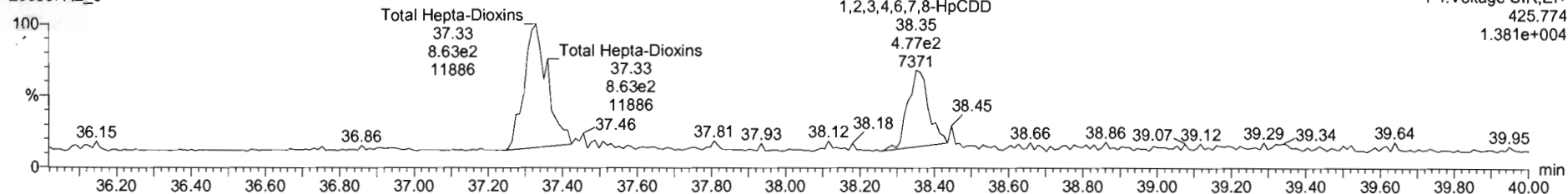
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1,2,3,4,6,7,8-HpCDD

200507R2_3

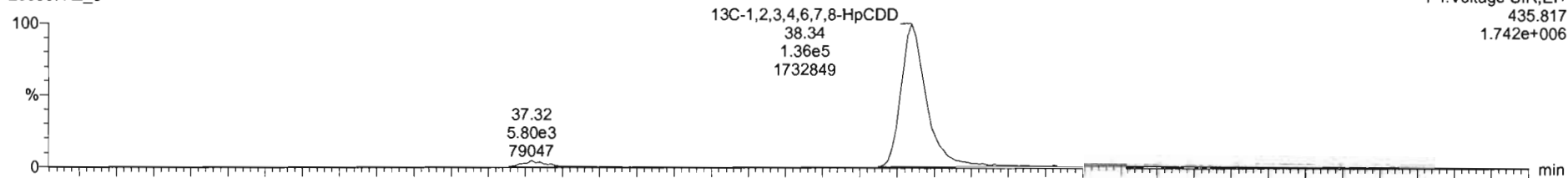


200507R2_3

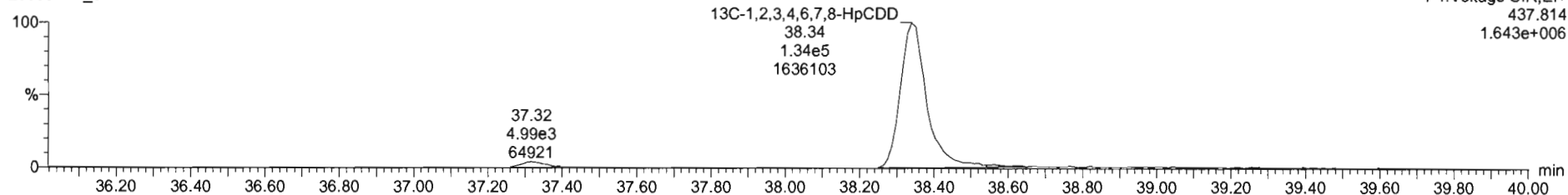


13C-1,2,3,4,6,7,8-HpCDD

200507R2_3

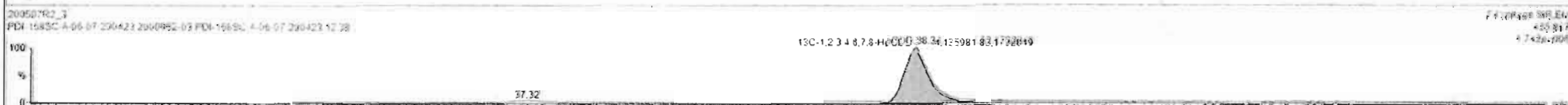


200507R2_3



SI	Name	Resp	RA	n/y	RRF	w/Ret	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.025					0.0511	
40	Total Penta-Dioxins				0.9425	10.025					0.0338	
41	Total Hexa-Dioxins				0.9145	10.025			0.000		0.0740	0.564
42	Total Hepta-Dioxins				0.6979	10.025			2.36		0.204	2.36
43	Total Tetra-Furans				0.7971	10.025					0.0370	

SI	Name	RT	mL Resp	mL Resp	RA	n/y	EMPC	Conc.
1	Total Hepta-Dioxins	37.34	6.035e2	6.427e2	1.14	NO	1.5223	1.5223
2	1,2,3,4,6,7,8-HpCDD	38.36	5.129e2	4.978e2	1.03	NO	0.83285	0.83285



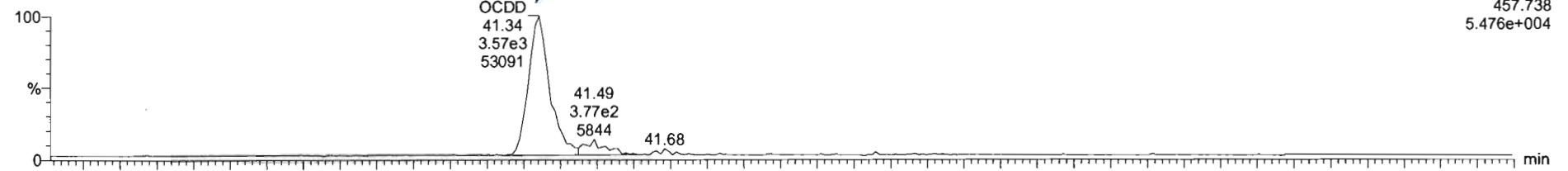
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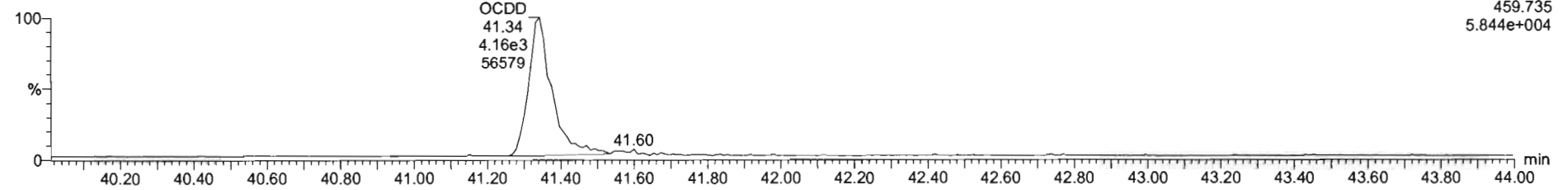
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OCDD

200507R2_3

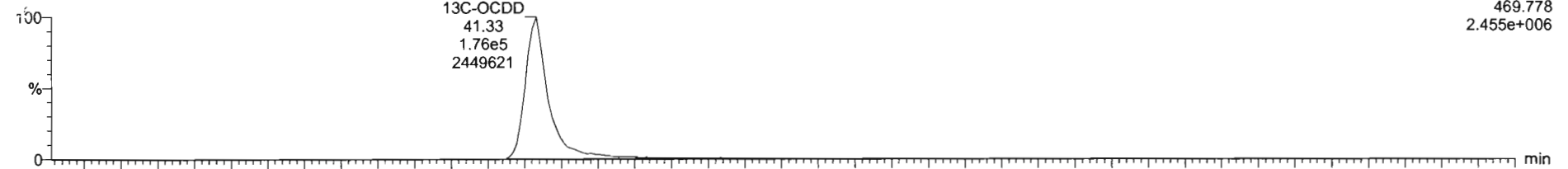


200507R2_3

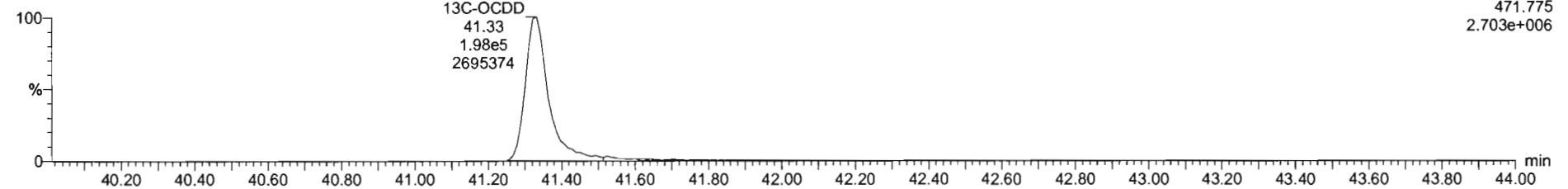


13C-OCDD

200507R2_3

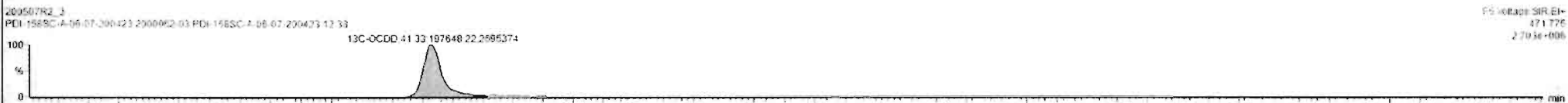
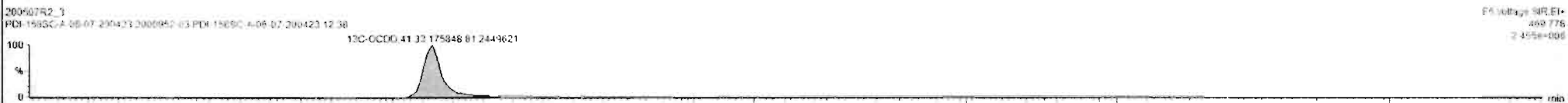


200507R2_3



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	7.57e3	0.94	NO	0.9335	10.025	41.34	1.000	6.66		0.105	8.66
8 2,3,7,8-TCDF			NO	0.7871	10.025					0.0690	
9 1,2,3,7,8-PeCDF			NO	0.9132	10.025					0.0881	
10 2,3,4,7,8-PeCDF			NO	0.9654	10.025					0.0855	
11 1,2,3,4,7,8-HxCDF			NO	0.8782	10.025					0.0836	

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



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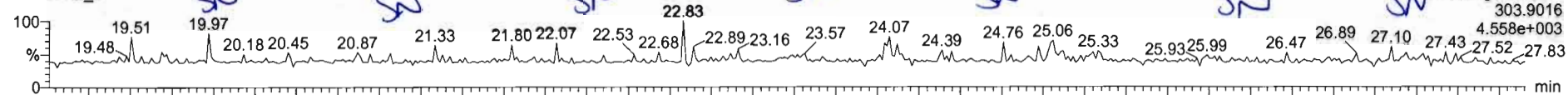
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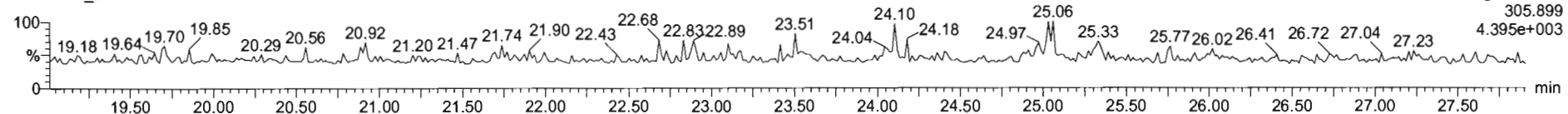
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2,3,7,8-TCDF

200507R2_3

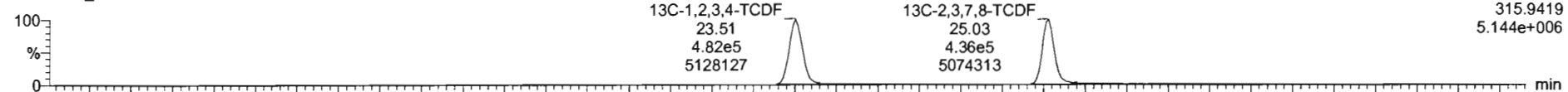


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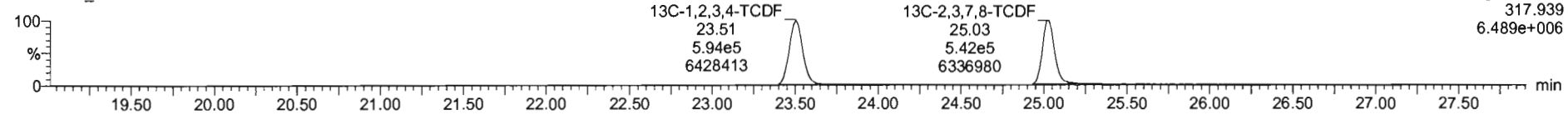


13C-2,3,7,8-TCDF

200507R2_3

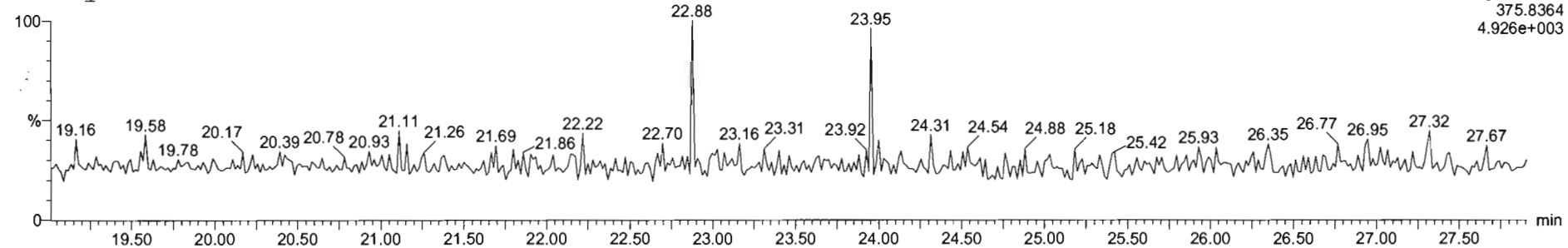


200507R2_3



DPE1

200507R2_3



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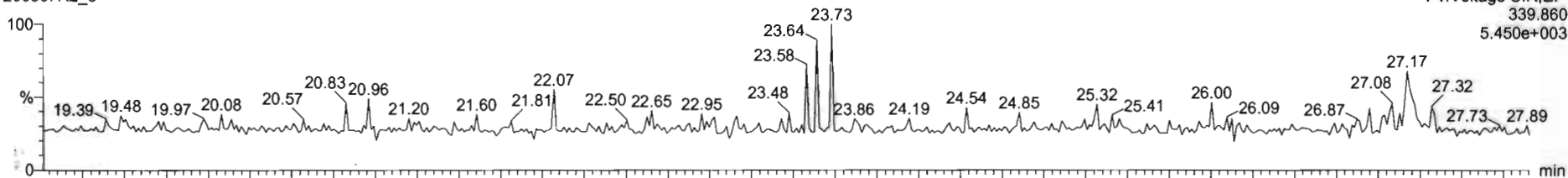
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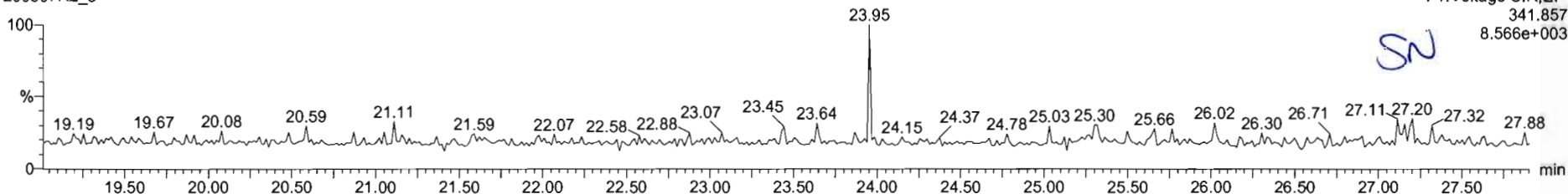
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1st Func. Penta-Furans

200507R2_3

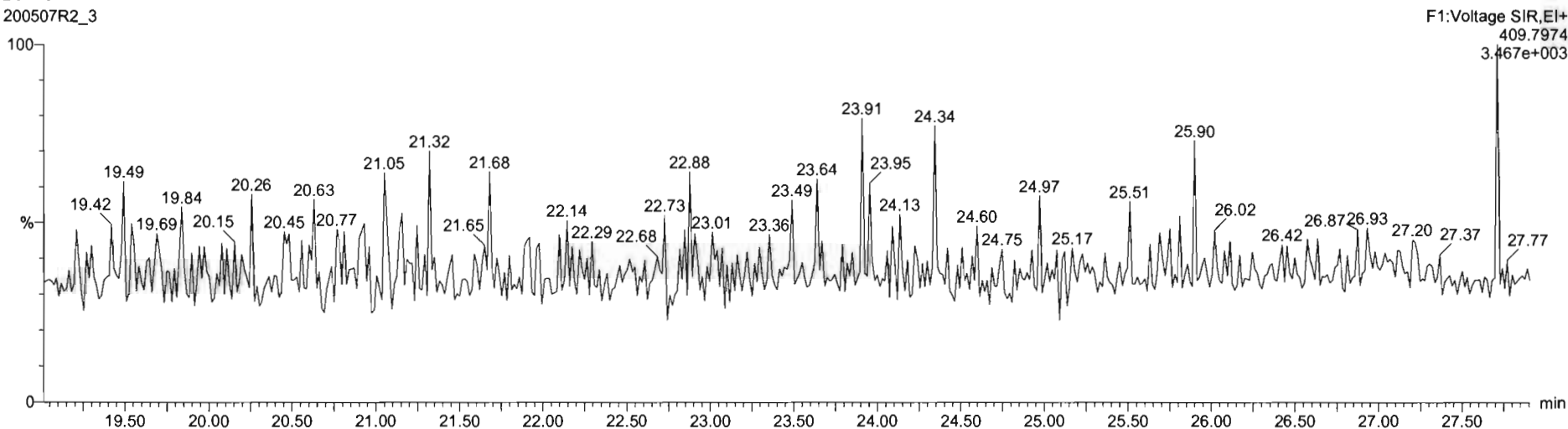


200507R2_3



DPE6

200507R2_3



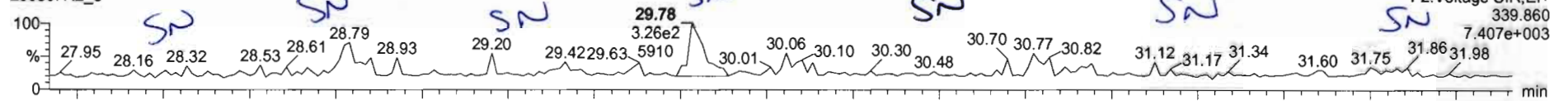
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

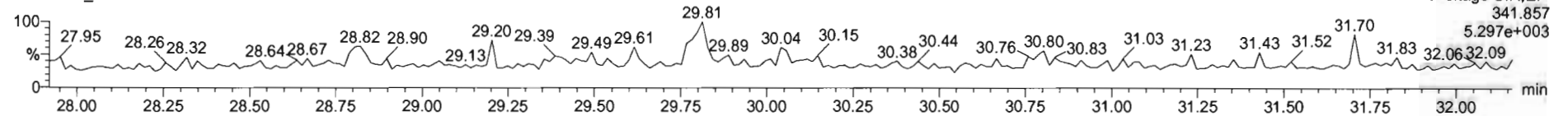
Name: 200507R2_3, Date: 07-May-2020, Time: 16:05:36, ID: 2000952-03 PDI-158SC-A-06-07-200423 12.38, Description: PDI-158SC-A-06-07-200423

1,2,3,7,8-PeCDF

200507R2_3

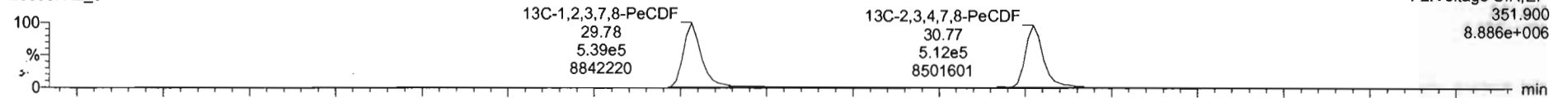


200507R2_3

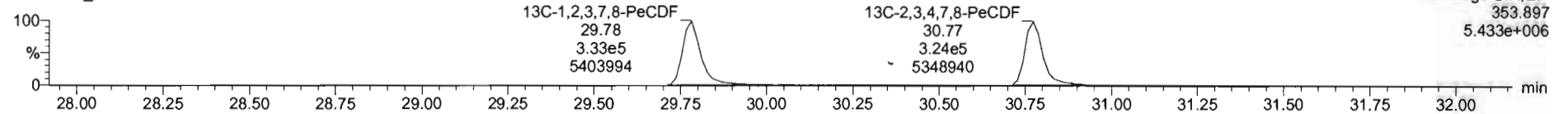


13C-1,2,3,7,8-PeCDF

200507R2_3

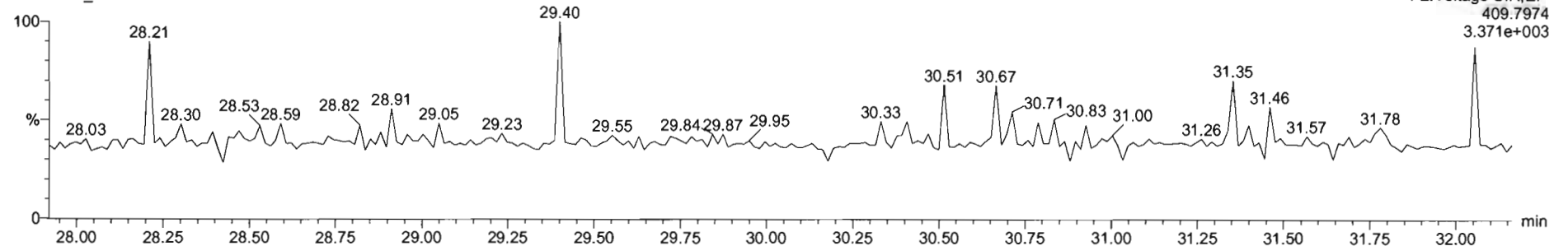


200507R2_3



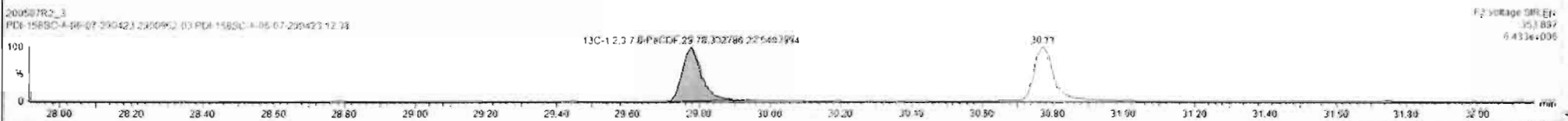
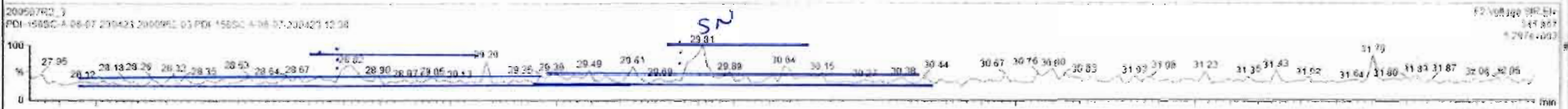
DPE2

200507R2_3



Name	Resp	RA	nfy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penth-Furans				0.9102	19.025					0.0592	
46 Total Hexa-Furans				0.9217	19.025					0.0493	
47 Total Hepta-Furans				0.8712	19.025					0.0628	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	nfy	EMPC	Conc
1							



Dataset: Untitled

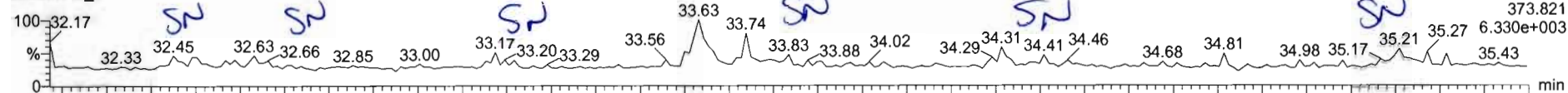
Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

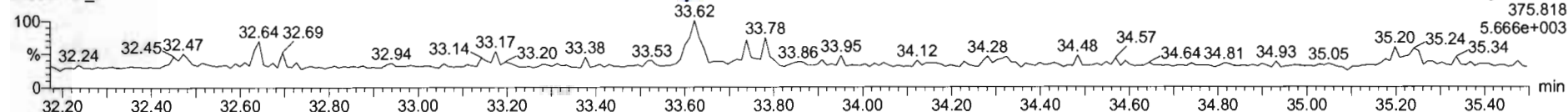
Name: 200507R2_3, Date: 07-May-2020, Time: 16:05:36, ID: 2000952-03 PDI-158SC-A-06-07-200423 12.38, Description: PDI-158SC-A-06-07-200423

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

200507R2_3

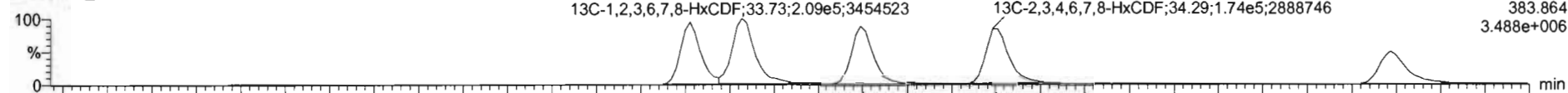


200507R2_3

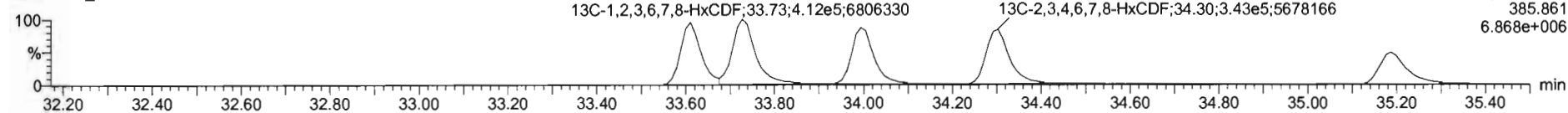


13C-1,2,3,4,7,8-HxCDF

200507R2_3

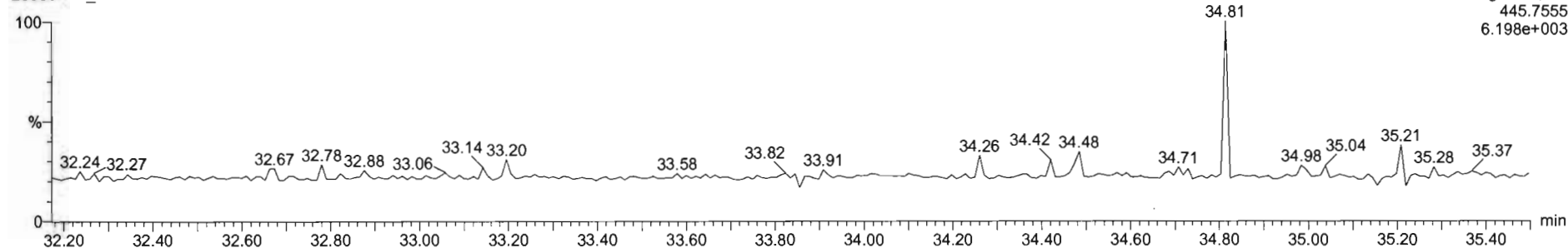


200507R2_3



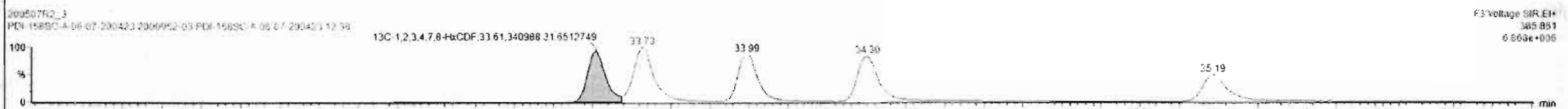
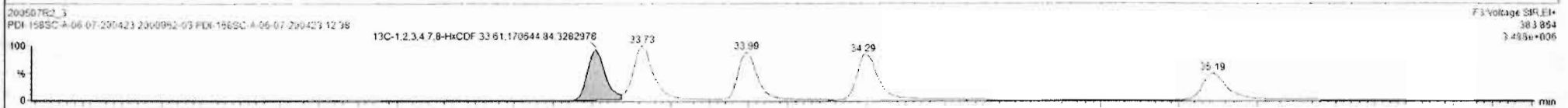
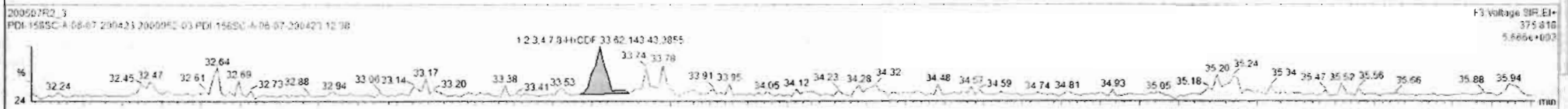
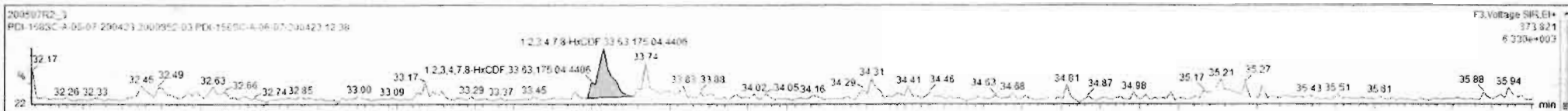
DPE3

200507R2_3



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9107	10.025					0.0562	
46 Total Hexa-Furans				0.9217	10.325			0.141		0.0480	0.141
47 Total Hepta-Furans				0.8712	10.025					0.0620	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,7,8-HxCDF	33.63	1.750e2	1.434e2	1.22	NO	0.14141	0.14141

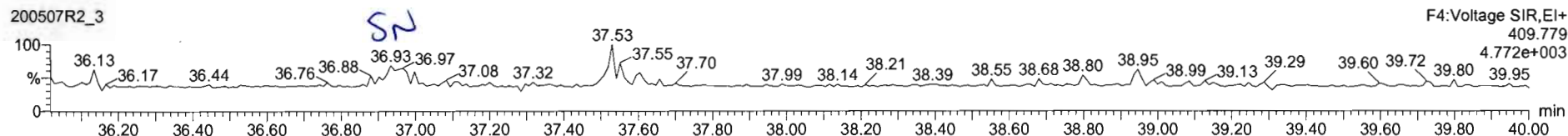
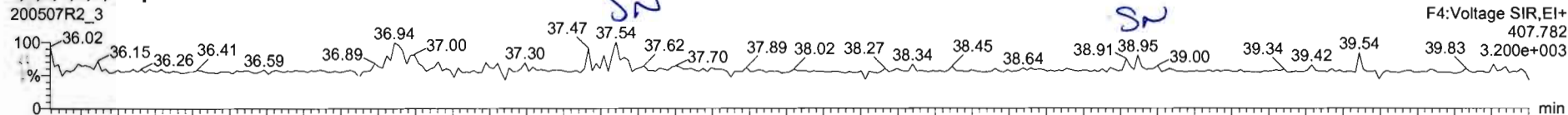


Dataset: Untitled

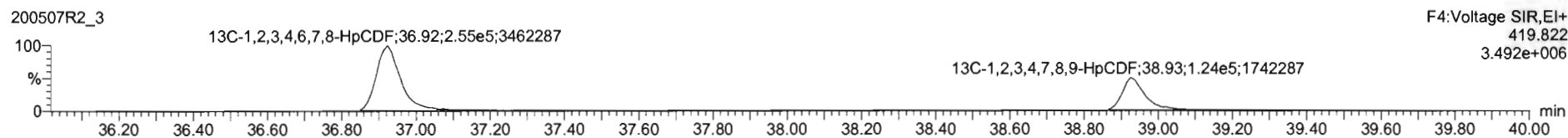
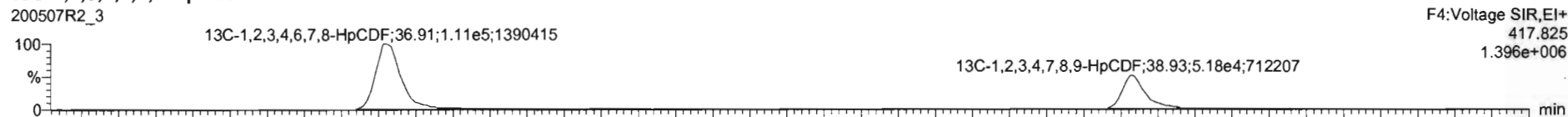
Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_3, Date: 07-May-2020, Time: 16:05:36, ID: 2000952-03 PDI-158SC-A-06-07-200423 12.38, Description: PDI-158SC-A-06-07-200423

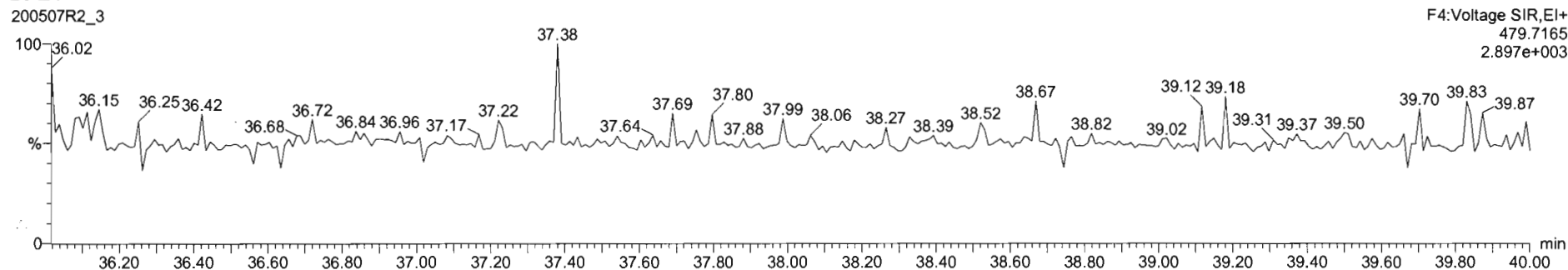
1,2,3,4,6,7,8-HpCDF



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



DPE4

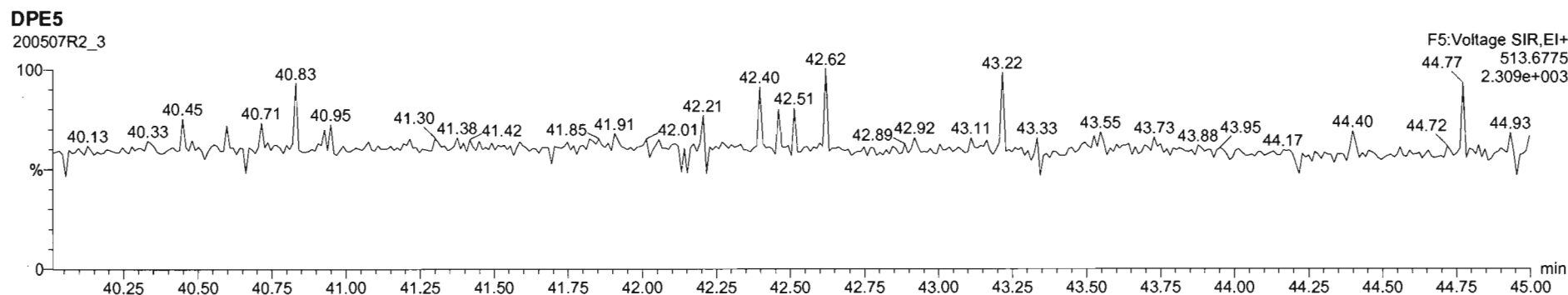
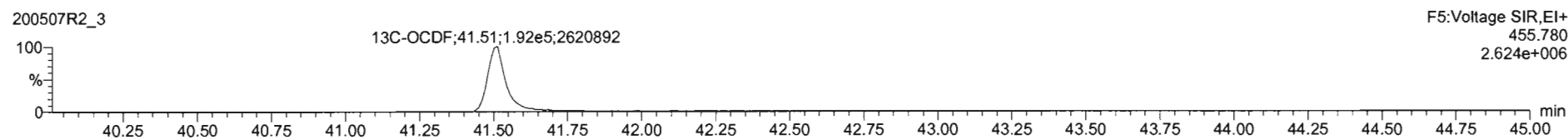
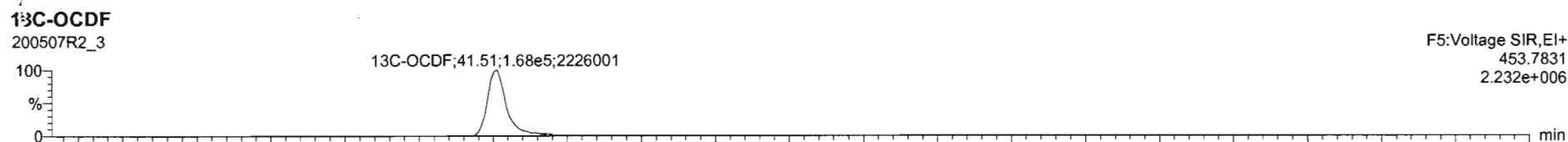
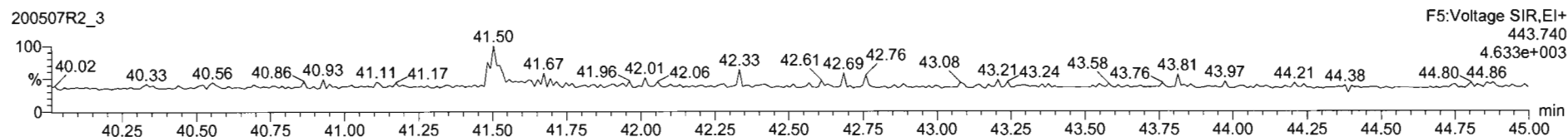
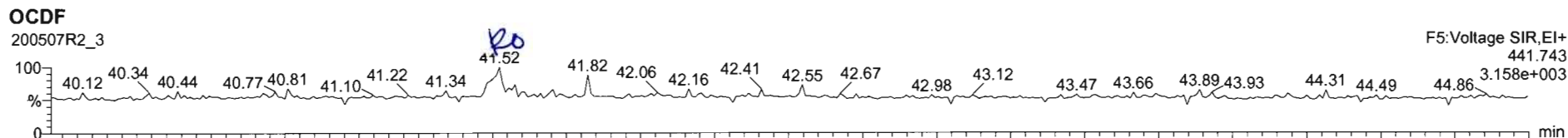


Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

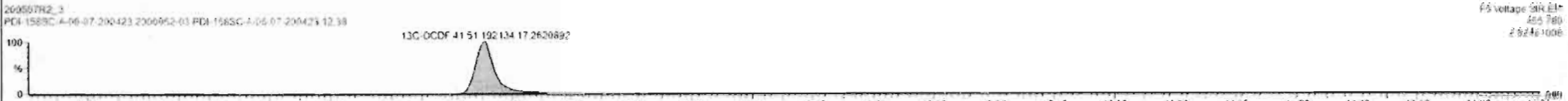
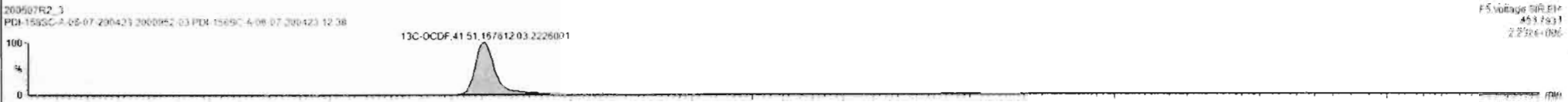
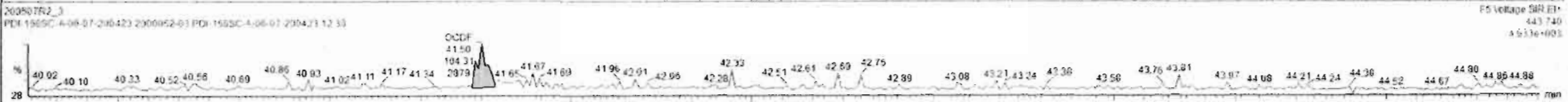
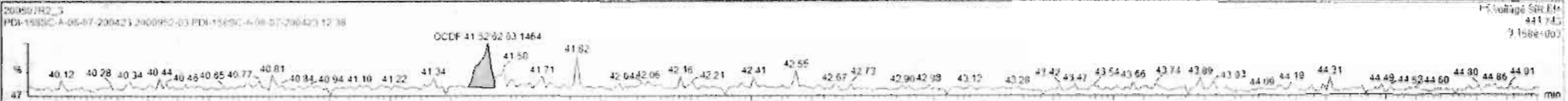
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_3, Date: 07-May-2020, Time: 16:05:36, ID: 2000952-03 PDI-158SC-A-06-07-200423 12.38, Description: PDI-158SC-A-06-07-200423



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	OL	EMPC
17	OCDF	1.67e2	0.60	YES	0.0021	10.025	11.52	1.000	3.231	0.187	0.184
18	13C-2,3,7,8-TCDD	8.25e5	0.79	NO	1.1505	19.025	25.98	1.027	201	101	0.404
19	13C-1,2,3,7,8-PeCDD	5.75e5	0.63	NO	0.8472	19.025	31.09	1.229	193	96.9	0.422
20	13C-1,2,3,7,8-HxCDD	3.05e5	1.28	NO	0.7496	19.025	34.46	1.014	192	56.4	0.619
21	13C-1,2,3,6,7,8-HxCDD	4.94e5	1.28	NO	0.9630	19.025	34.57	1.017	203	182	0.654

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



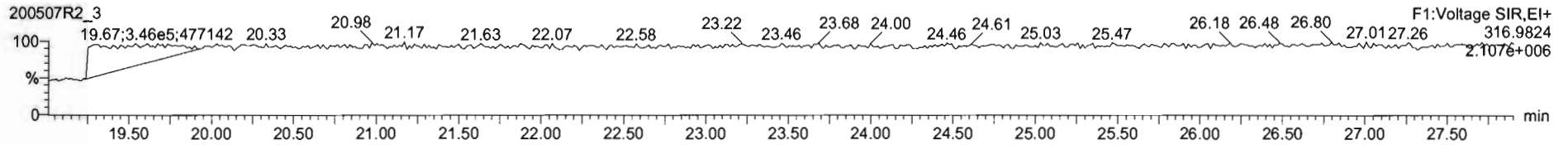
Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

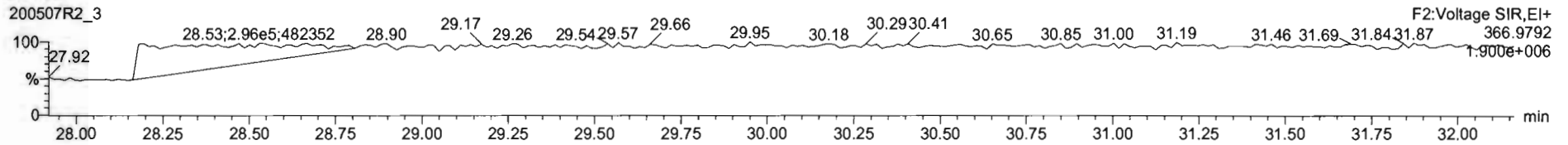
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_3, Date: 07-May-2020, Time: 16:05:36, ID: 2000952-03 PDI-158SC-A-06-07-200423 12.38, Description: PDI-158SC-A-06-07-200423

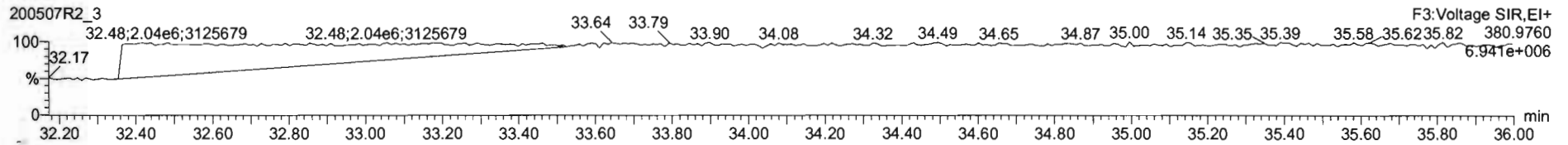
PFK1



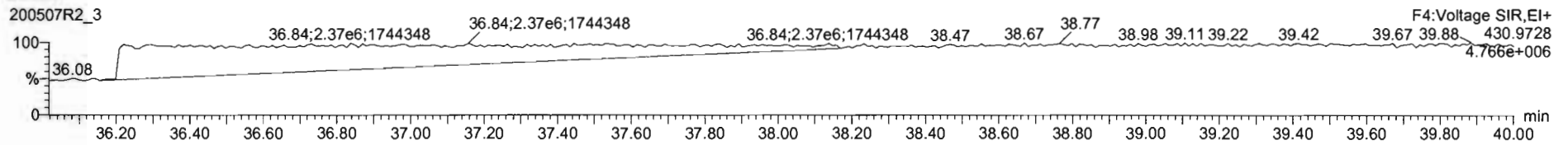
PFK2



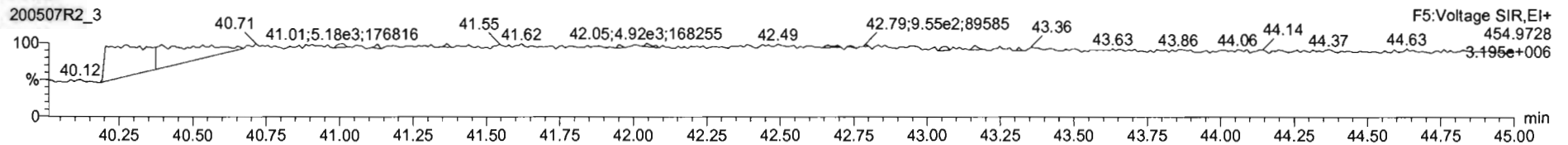
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200507R2\200507R2-4.qld

Last Altered: Friday, May 08, 2020 12:10:16 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 12:12:46 PM Pacific Daylight Time

GRB 05/08/2020
CT 05/14/2020

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

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

Name: 200507R2_4, Date: 07-May-2020, Time: 16:51:47, ID: 2000952-04 PDI-158SC-A-07-08-200423 11.57, Description: PDI-158SC-A-07-08-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.001	26.006		1.001				0.0977	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.001	31.101		1.001				0.0929	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.001	34.462		1.000				0.133	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.001	34.559		1.000				0.131	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.001	34.845		1.000				0.160	
6	6 1,2,3,4,6,7,8-HpCDD	2.17e3	1.09	NO	0.898	10.001	38.340	38.34	1.000	1.000	1.8836		0.333	1.88
7	7 OCDD	1.08e4	0.93	NO	0.933	10.001	41.311	41.32	1.000	1.000	13.269		0.421	13.3
8	8 2,3,7,8-TCDF			NO	0.787	10.001	25.042		1.001				0.0590	
9	9 1,2,3,7,8-PeCDF	4.38e2	1.32	NO	0.910	10.001	29.788	29.80	1.001	1.001	0.11663		0.0699	0.117
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.001	30.789		1.001				0.0669	
11	11 1,2,3,4,7,8-HxCDF	2.88e2	0.95	YES	0.878	10.001	33.600	33.60	1.000	1.000	0.1276		0.0415	0.117
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.001	33.727		1.000				0.0797	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.001	34.326		1.001				0.0907	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.001	35.176		1.000				0.162	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.001	36.949		1.001				0.0914	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.001	38.915		1.000				0.156	
17	17 OCDF	2.25e2	0.82	NO	0.802	10.001	41.492	41.50	1.000	1.000	0.35550		0.207	0.355
18	18 13C-2,3,7,8-TCDD	7.33e5	0.78	NO	1.16	10.001	25.954	25.98	1.026	1.027	194.33	97.2	0.401	
19	19 13C-1,2,3,7,8-PeCDD	5.44e5	0.62	NO	0.847	10.001	31.031	31.08	1.227	1.229	197.29	98.7	0.652	
20	20 13C-1,2,3,4,7,8-HxCDD	3.54e5	1.29	NO	0.750	10.001	34.463	34.45	1.014	1.014	191.99	96.0	1.42	
21	21 13C-1,2,3,6,7,8-HxCDD	4.70e5	1.26	NO	0.963	10.001	34.575	34.56	1.017	1.017	198.36	99.2	1.11	
22	22 13C-1,2,3,7,8,9-HxCDD	4.01e5	1.24	NO	0.838	10.001	34.844	34.83	1.025	1.025	194.42	97.2	1.27	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.56e5	1.09	NO	0.641	10.001	38.331	38.33	1.128	1.128	162.23	81.1	1.01	
24	24 13C-OCDD	3.47e5	0.89	NO	0.586	10.001	41.321	41.31	1.216	1.216	240.68	60.2	0.580	
25	25 13C-2,3,7,8-TCDF	9.35e5	0.78	NO	1.03	10.001	25.015	25.02	0.989	0.989	183.63	91.8	0.668	
26	26 13C-1,2,3,7,8-PeCDF	8.26e5	1.61	NO	0.845	10.001	29.724	29.77	1.176	1.177	198.52	99.3	0.962	
27	27 13C-2,3,4,7,8-PeCDF	7.93e5	1.62	NO	0.814	10.001	30.712	30.76	1.215	1.216	197.93	99.0	0.998	
28	28 13C-1,2,3,4,7,8-HxCDF	4.93e5	0.50	NO	1.00	10.001	33.603	33.60	0.989	0.989	199.41	99.7	1.15	
29	29 13C-1,2,3,6,7,8-HxCDF	6.02e5	0.53	NO	1.14	10.001	33.726	33.72	0.992	0.992	214.93	107	1.01	
30	30 13C-2,3,4,6,7,8-HxCDF	5.09e5	0.49	NO	1.02	10.001	34.293	34.29	1.009	1.009	202.36	101	1.13	
31	31 13C-1,2,3,7,8,9-HxCDF	3.78e5	0.50	NO	0.845	10.001	35.184	35.18	1.035	1.035	181.91	91.0	1.37	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-4.qld

Last Altered: Friday, May 08, 2020 12:10:16 PM Pacific Daylight Time
Printed: Friday, May 08, 2020 12:12:46 PM Pacific Daylight Time

Name: 200507R2_4, Date: 07-May-2020, Time: 16:51:47, ID: 2000952-04 PDI-158SC-A-07-08-200423 11.57, Description: PDI-158SC-A-07-08-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.45e5	0.42	NO	0.771	10.001	36.913	36.91	1.086	1.086	181.72	90.9	0.978	
33	13C-1,2,3,4,7,8,9-HpCDF	1.67e5	0.43	NO	0.482	10.001	38.922	38.92	1.145	1.145	140.98	70.5	1.56	
34	13C-OCDF	3.16e5	0.84	NO	0.669	10.001	41.491	41.49	1.221	1.221	191.92	48.0	0.541	
35	37Cl-2,3,7,8-TCDD	2.80e5			1.10	10.001	25.984	25.99	1.028	1.028	78.428	98.0	0.120	
36	13C-1,2,3,4-TCDD	6.51e5	0.78	NO	1.00	10.001	25.350	25.29	1.000	1.000	199.98	100	0.465	
37	13C-1,2,3,4-TCDF	9.84e5	0.79	NO	1.00	10.001	23.560	23.50	1.000	1.000	199.98	100	0.691	
38	13C-1,2,3,4,6,9-HxCDF	4.92e5	0.53	NO	1.00	10.001	34.000	33.98	1.000	1.000	199.98	100	1.15	
39	Total Tetra-Dioxins				0.947	10.001	24.620		0.000				0.0584	
40	Total Penta-Dioxins				0.942	10.001	29.960		0.000				0.0428	
41	Total Hexa-Dioxins				0.915	10.001	33.635		0.000		1.1640		0.147	1.16
42	Total Hepta-Dioxins				0.898	10.001	37.640		0.000		4.8838		0.333	4.88
43	Total Tetra-Furans				0.787	10.001	23.610		0.000				0.0244	
44	1st Func. Penta-Furans				0.910	10.001	27.090		0.000				0.0132	
45	Total Penta-Furans				0.910	10.001	29.275		0.000		0.11663		0.0704	0.117
46	Total Hexa-Furans				0.922	10.001	33.555		0.000		0.00000		0.0459	0.117
47	Total Hepta-Furans				0.871	10.001	37.835		0.000				0.0704	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-4.qld

Last Altered: Friday, May 08, 2020 12:10:16 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 12:12:46 PM Pacific Daylight Time

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

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

Name: 200507R2_4, Date: 07-May-2020, Time: 16:51:47, ID: 2000952-04 PDI-158SC-A-07-08-200423 11.57, Description: PDI-158SC-A-07-08-200423

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	1.277e4	1.420e4	8.001e2	7.244e2	1.10	NO	1.524e3	0.81596	0.81600	0.147
2	Total Hexa-Dioxins	33.79	8.981e3	4.934e3	3.570e2	2.931e2	1.22	NO	6.502e2	0.34800	0.34800	0.147

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.31	2.555e4	2.007e4	1.838e3	1.613e3	1.14	NO	3.451e3	3.0002	3.0000	0.333
2	1,2,3,4,6,7,8-HpCDD	38.34	1.444e4	1.452e4	1.130e3	1.037e3	1.09	NO	2.167e3	1.8836	1.8840	0.333

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\200507R2\200507R2-4.qld

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Printed: Friday, May 08, 2020 12:12:46 PM Pacific Daylight Time

Name: 200507R2_4, Date: 07-May-2020, Time: 16:51:47, ID: 2000952-04 PDI-158SC-A-07-08-200423 11.57, Description: PDI-158SC-A-07-08-200423

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8-PeCDF	29.80	3.677e3	2.773e3	2.496e2	1.887e2	1.32	NO	4.383e2	0.11663	0.11700	0.0699

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,7,8-HxCDF	33.60	3.086e3	3.244e3	1.404e2	1.472e2	0.95	YES	2.876e2	0.00000	0.11700	0.0415

Hepta-Furans

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

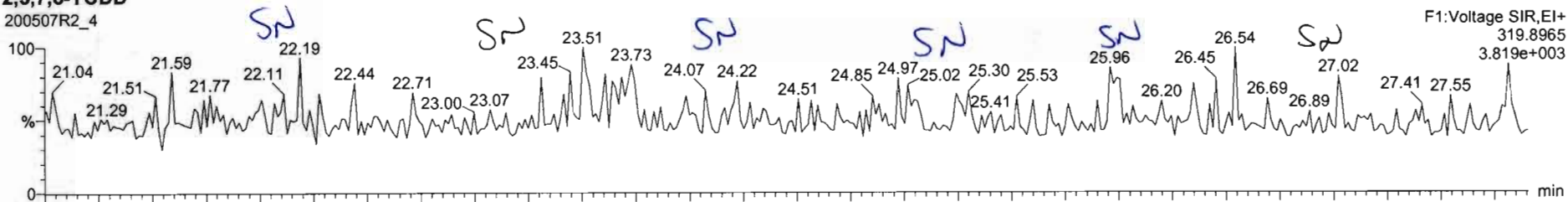
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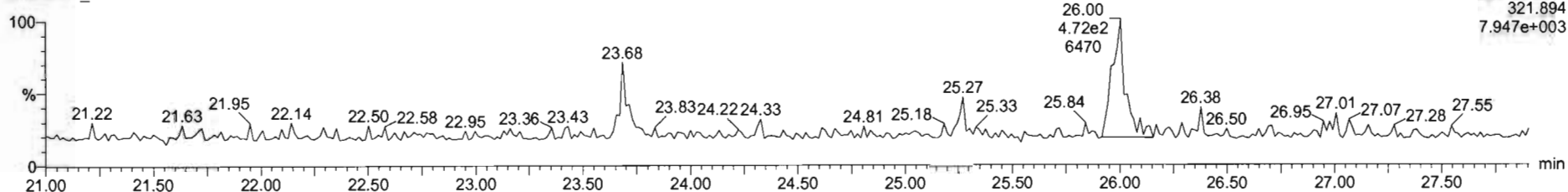
2,3,7,8-TCDD

200507R2_4



F1: Voltage SIR, EI+
319.8965
3.819e+003

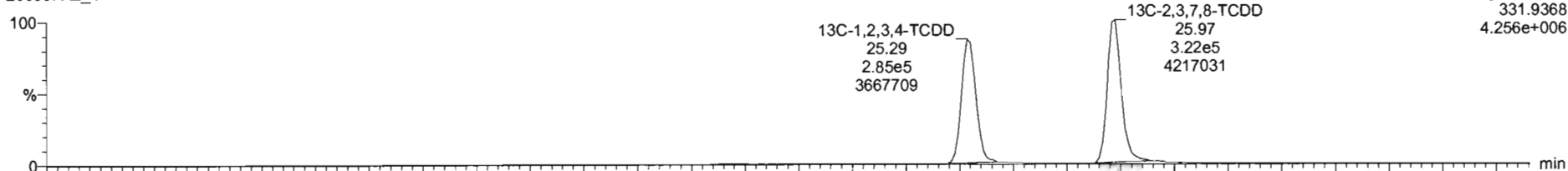
200507R2_4



F1: Voltage SIR, EI+
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7.947e+003

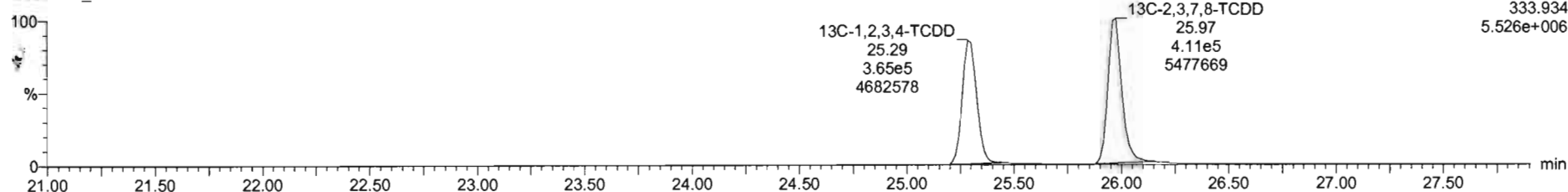
13C-2,3,7,8-TCDD

200507R2_4



F1: Voltage SIR, EI+
331.9368
4.256e+006

200507R2_4



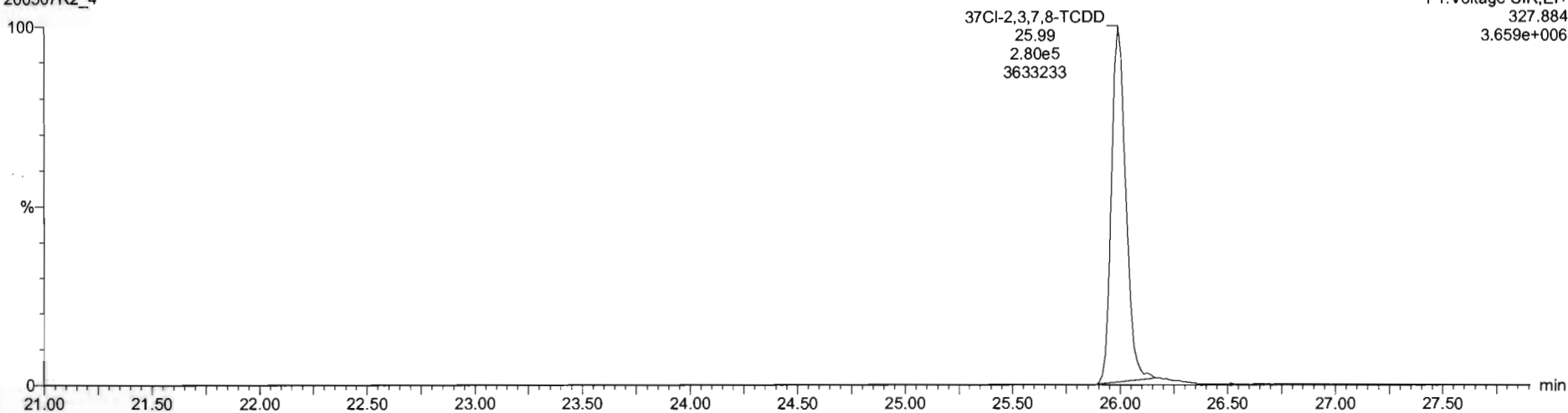
F1: Voltage SIR, EI+
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5.526e+006

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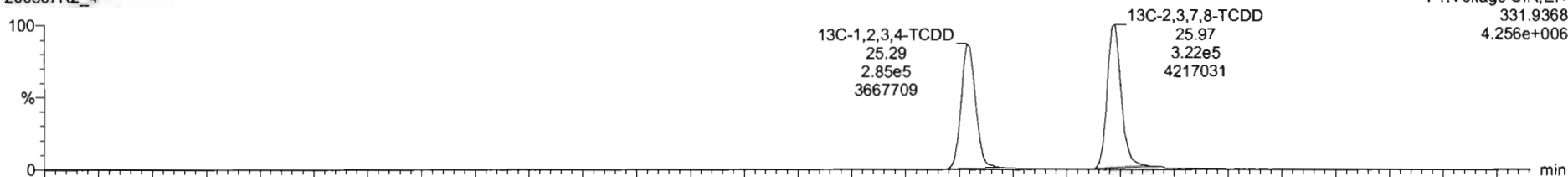
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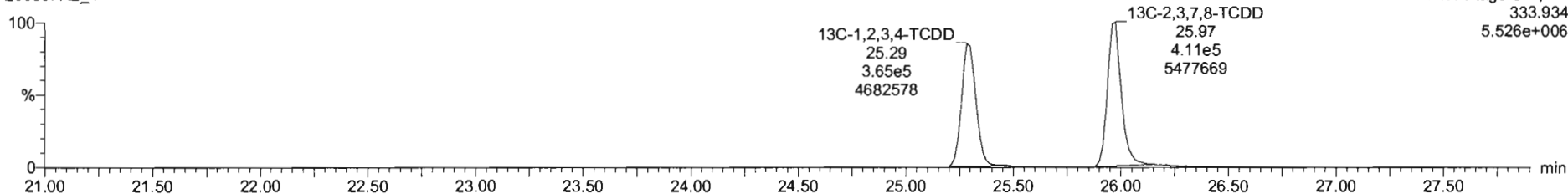
37Cl-2,3,7,8-TCDD
200507R2_4



13C-1,2,3,4-TCDD
200507R2_4



200507R2_4



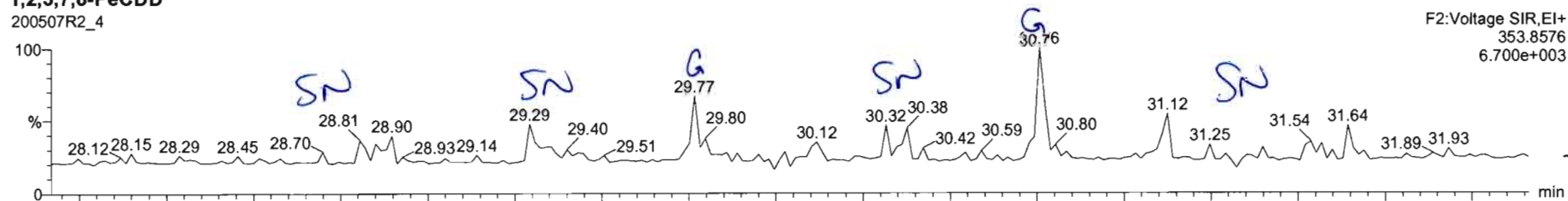
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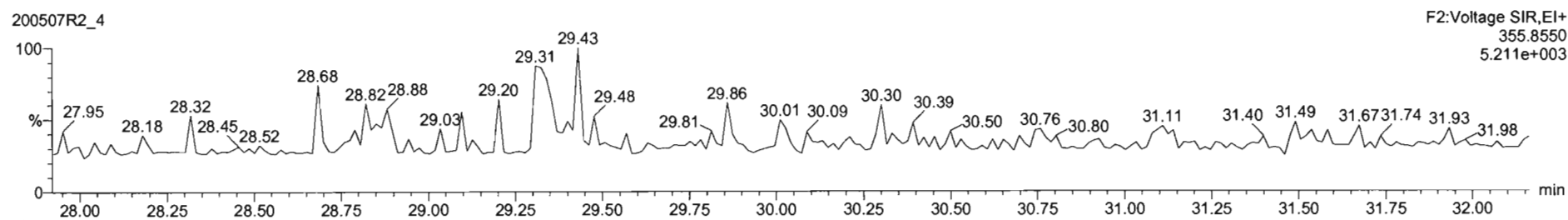
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1,2,3,7,8-PeCDD

200507R2_4

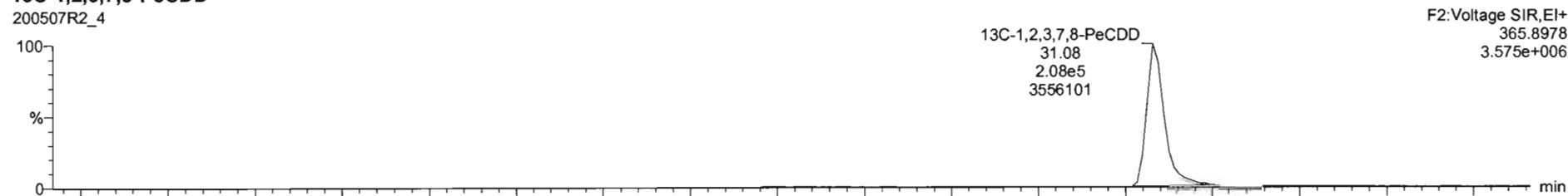


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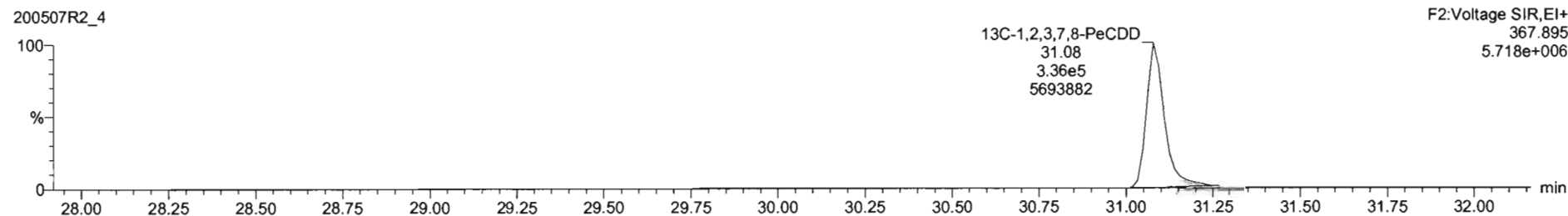


¹³C-1,2,3,7,8-PeCDD

200507R2_4



200507R2_4



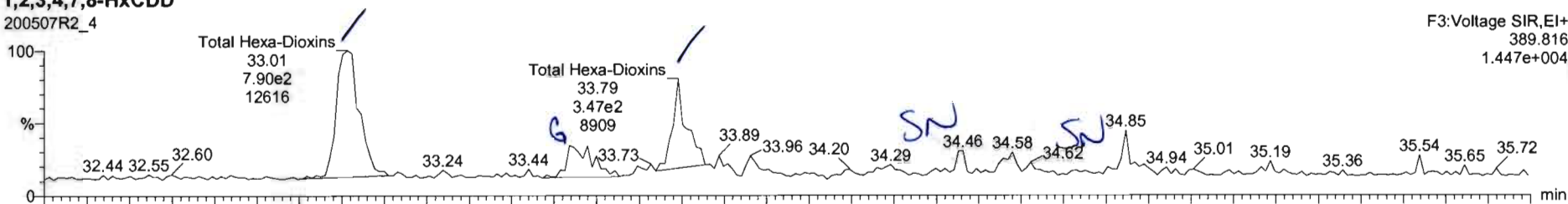
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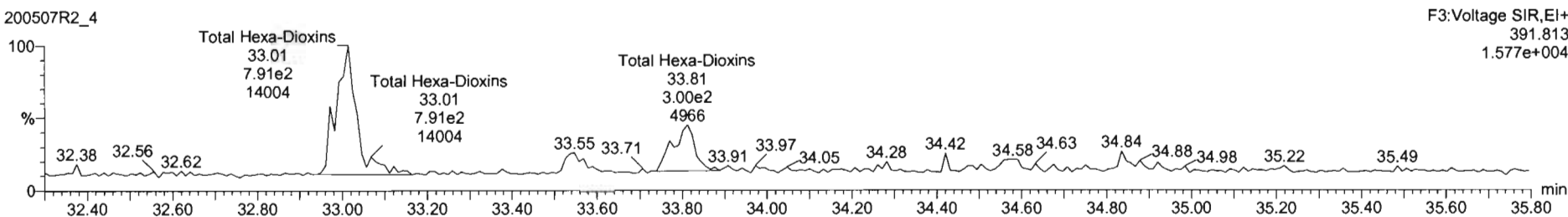
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1,2,3,4,7,8-HxCDD

200507R2_4

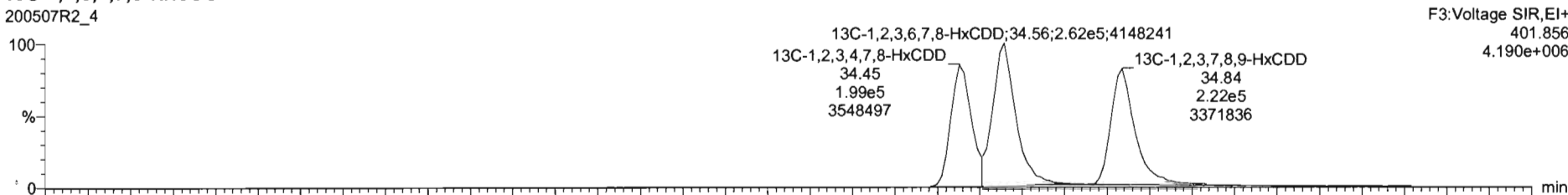


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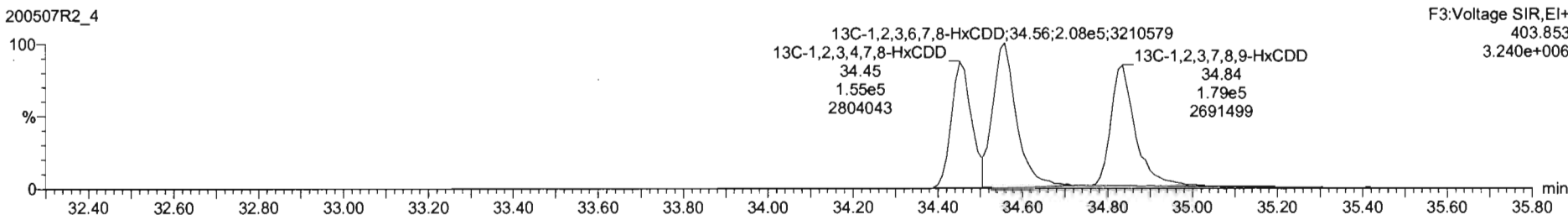


13C-1,2,3,4,7,8-HxCDD

200507R2_4

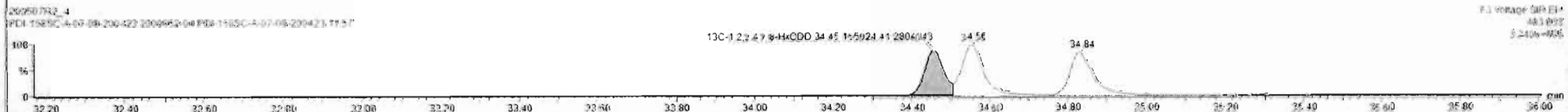
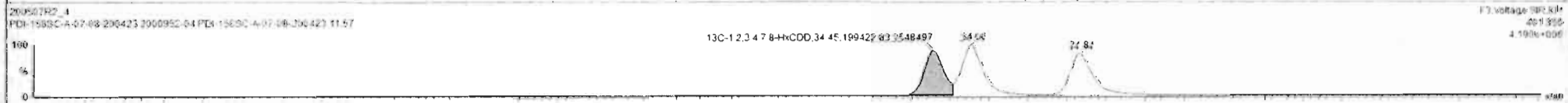
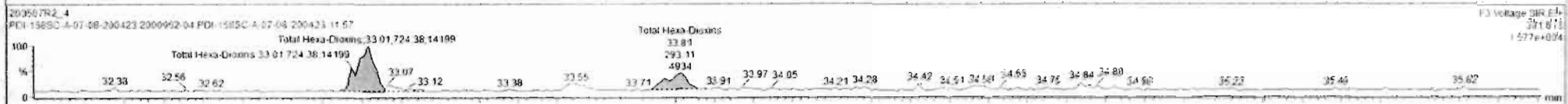
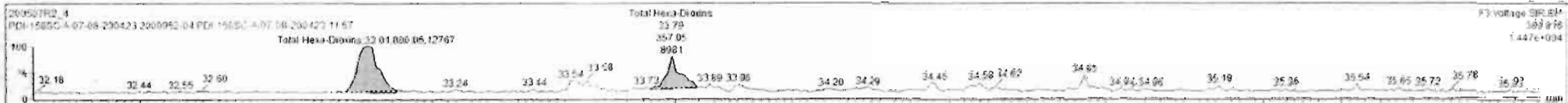


200507R2_4



Name	Resp	RA	n/y	RRF	w/wst	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.95	10.001					0.0564	
40 Total Penta-Dioxins				0.84	10.001					0.0422	
41 Total Hexa-Dioxins				0.91	10.001			1.16		0.147	1.16
42 Total Hepta-Dioxins				0.90	10.001			4.89		0.321	4.61

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.01	8.001e2	7.244e2	1.10	NO	0.81596	0.81596
2 Total Hexa-Dioxins	33.79	3.570e2	2.931e2	1.22	NO	0.34800	0.34800



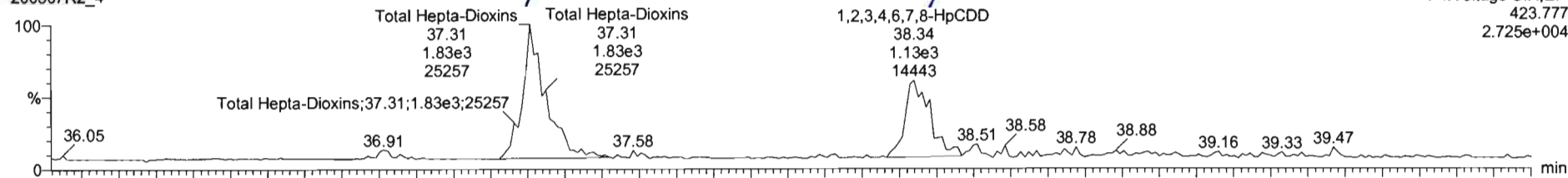
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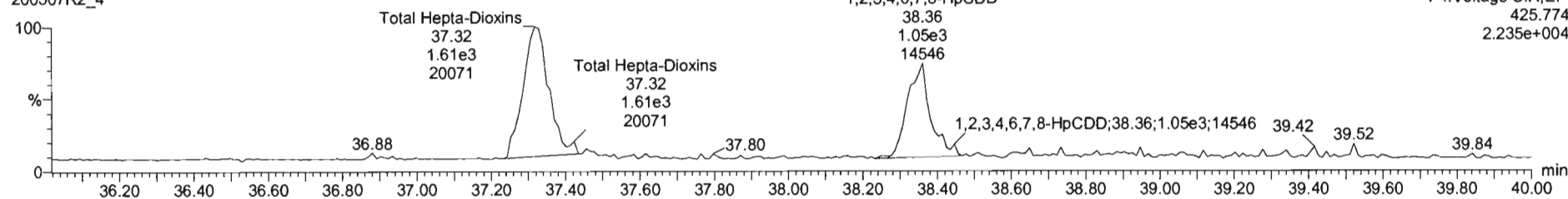
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1,2,3,4,6,7,8-HpCDD

200507R2_4

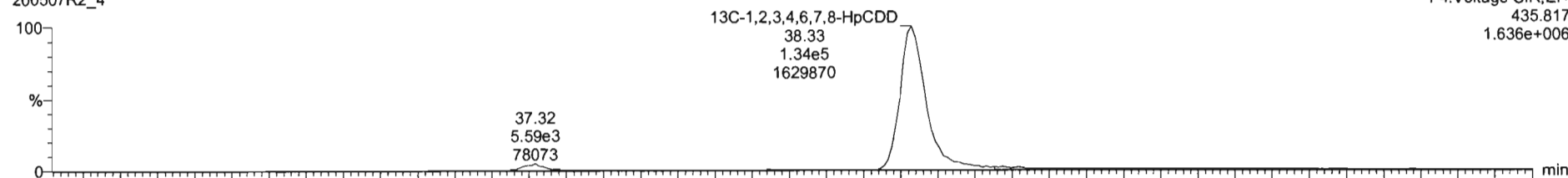


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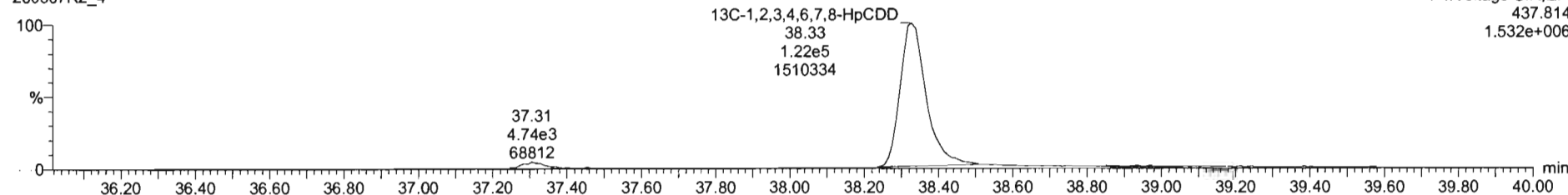


13C-1,2,3,4,6,7,8-HpCDD

200507R2_4

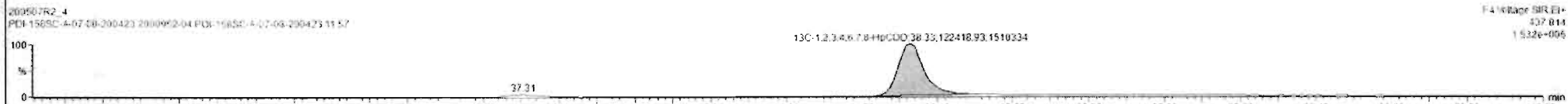
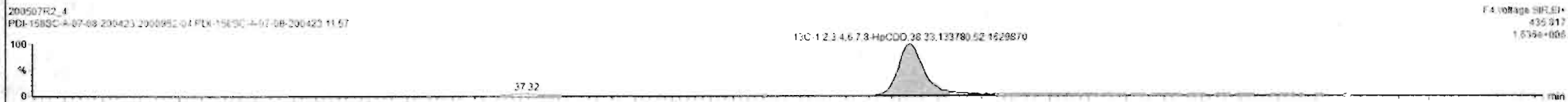


200507R2_4



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.95	10.001					0.0584	
40 Total Penta-Dioxins				0.94	10.001					0.0428	
41 Total Hexa-Dioxins				0.91	10.001			1.16		0.147	1.16
42 Total Hepta-Dioxins				0.98	10.001			4.88		0.333	4.88

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.31	1.83e3	1.61e3	1.14	NO	3.0002	3.9002
2 1,2,3,4,6,7,8-HpCDD	38.34	1.11e3	1.05e3	1.09	NO	1.8836	1.8836



Custom Reporting: Select reports to generate

200507R2_4 CAP NUM

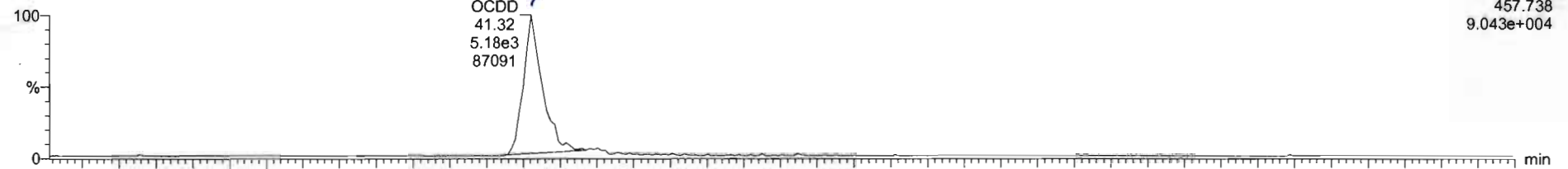
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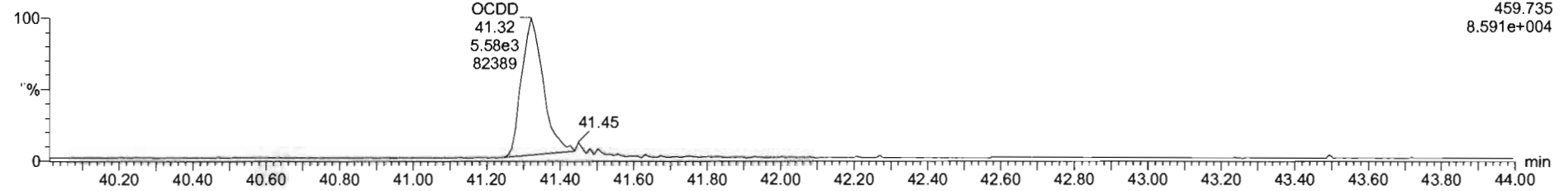
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OCDD

200507R2_4

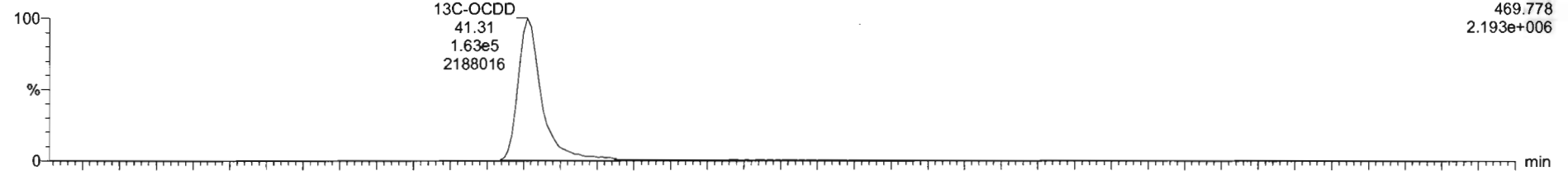


200507R2_4

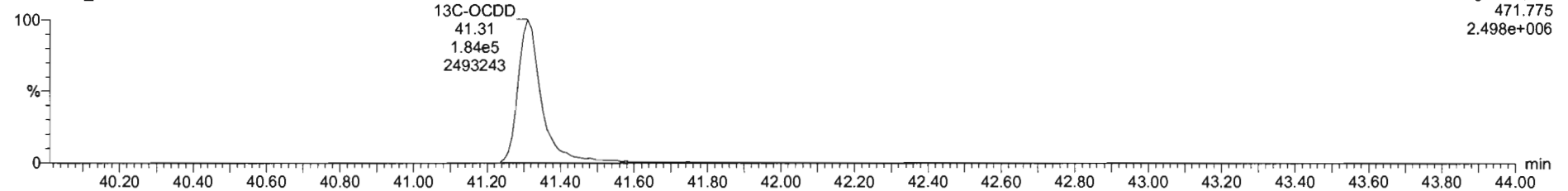


13C-OCDD

200507R2_4



200507R2_4



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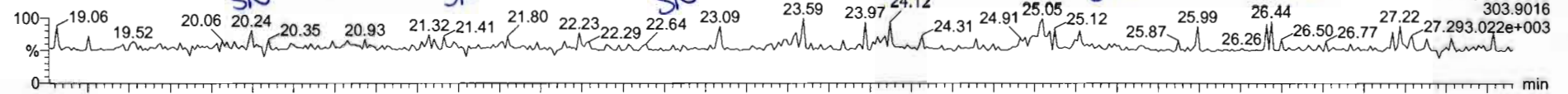
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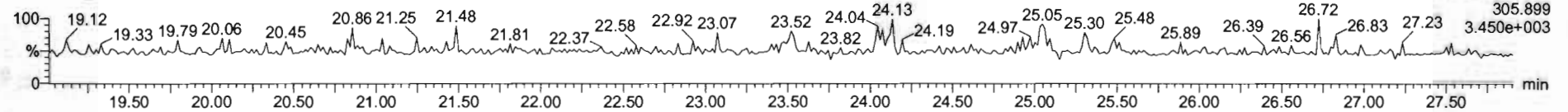
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2,3,7,8-TCDF

200507R2_4

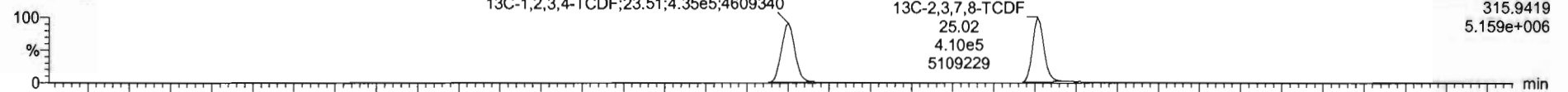


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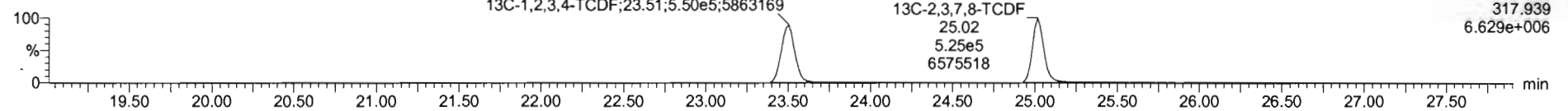


13C-2,3,7,8-TCDF

200507R2_4

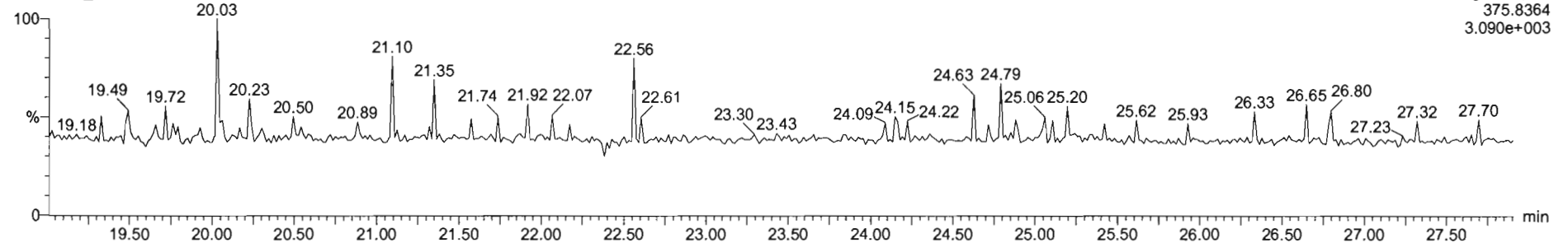


200507R2_4



DPE1

200507R2_4



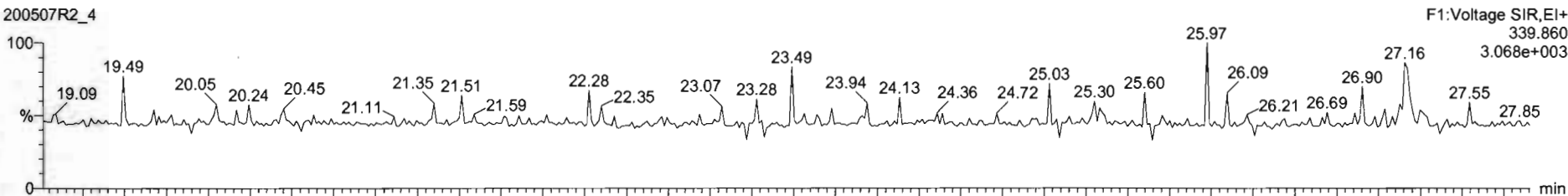
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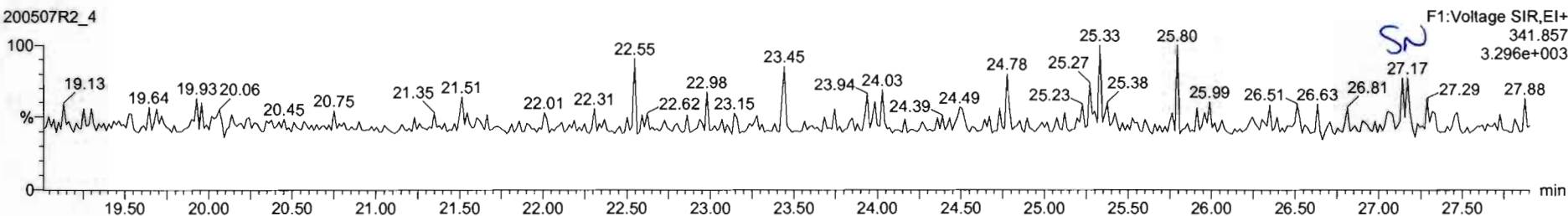
1st Func. Penta-Furans

200507R2_4



F1: Voltage SIR, EI+
339.860
3.068e+003

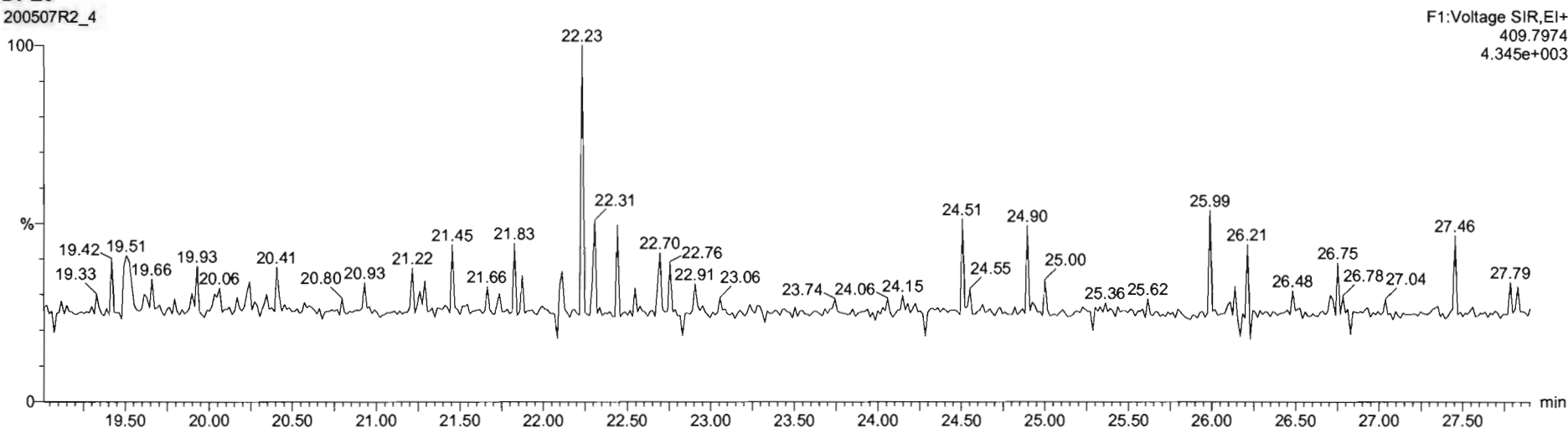
200507R2_4



F1: Voltage SIR, EI+
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3.296e+003

DPE6

200507R2_4



F1: Voltage SIR, EI+
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4.345e+003

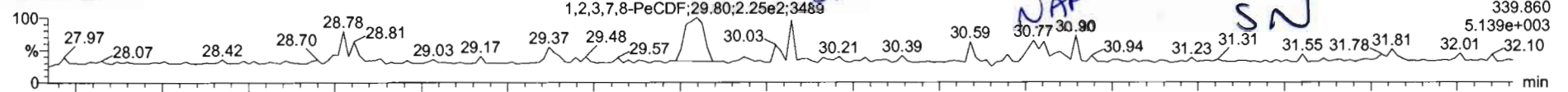
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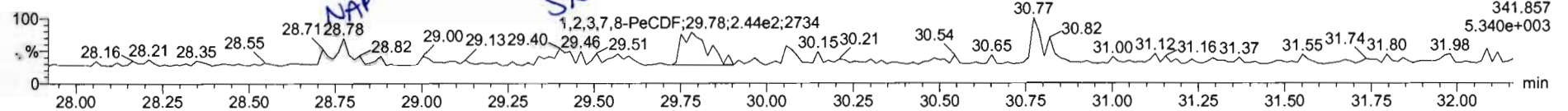
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1,2,3,7,8-PeCDF

200507R2_4

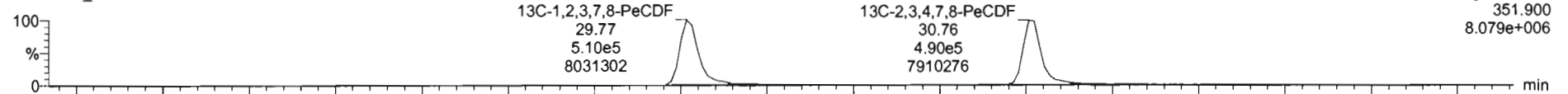


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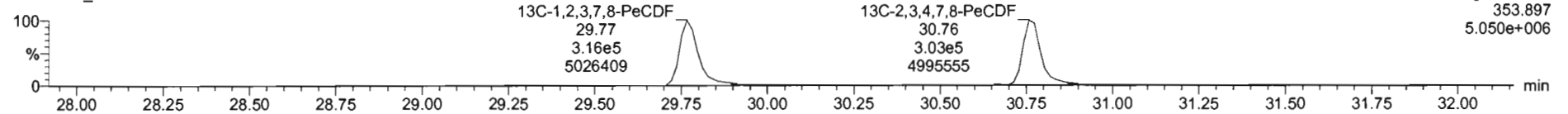


13C-1,2,3,7,8-PeCDF

200507R2_4

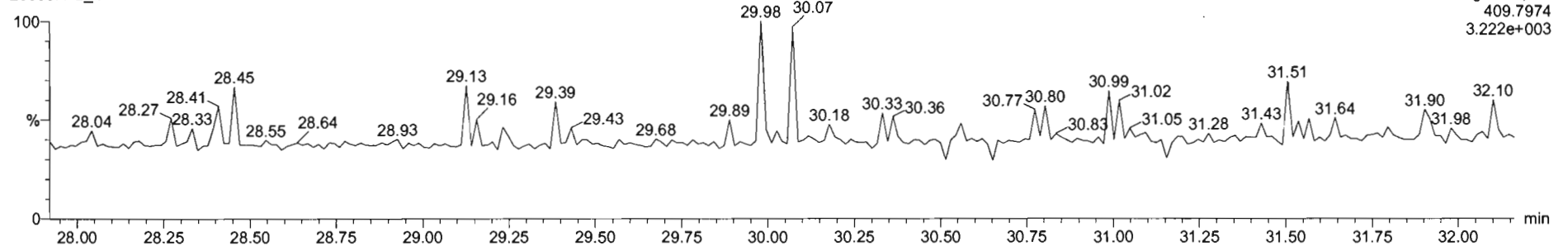


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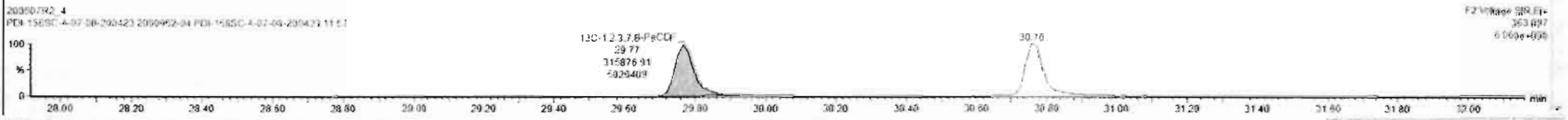
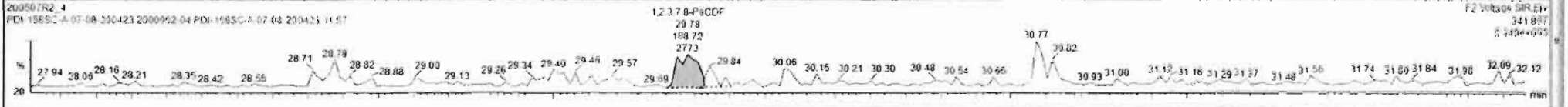
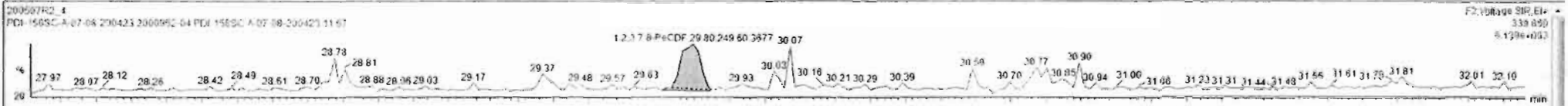
DPE2

200507R2_4



Name	Resp	RA	nfy	RRF	WtVol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.91	10.001					0.0112	
45 Total Penta-Furans				0.61	10.001			0.117		0.0704	0.117
46 Total Hexa-Furans				0.92	10.001					0.0459	
47 Total Hepta-Furans				0.87	10.001					0.0704	

Name	RT	m1 Resp	m2 Resp	RA	nfy	EMPC	Conc.
1 1,2,3,7,8-PeCDF	29.80	2.496e2	1.607e2	1.32	NO	0.116E3	0.116E3

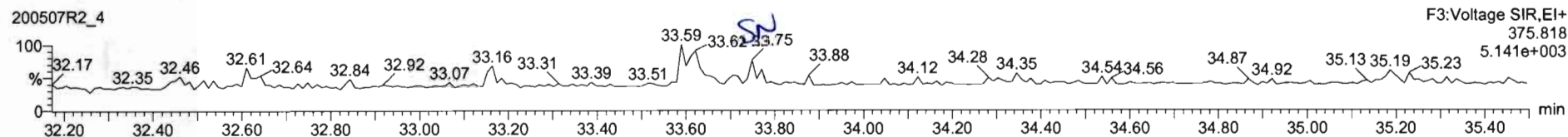
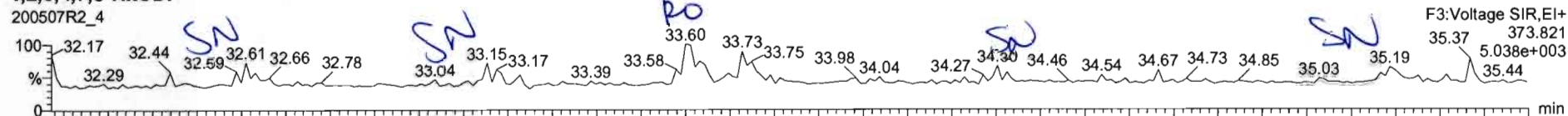


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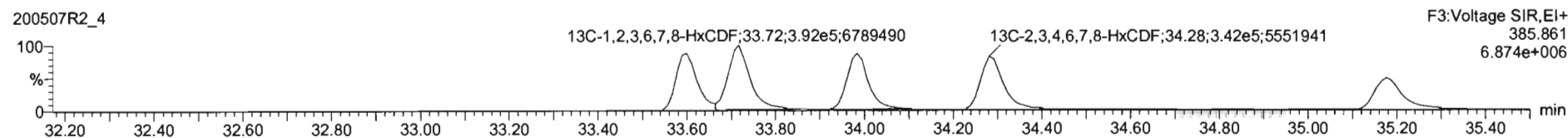
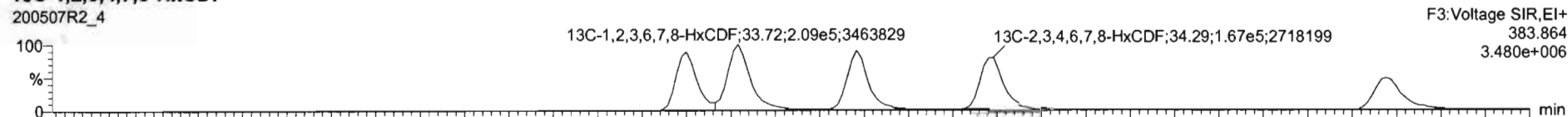
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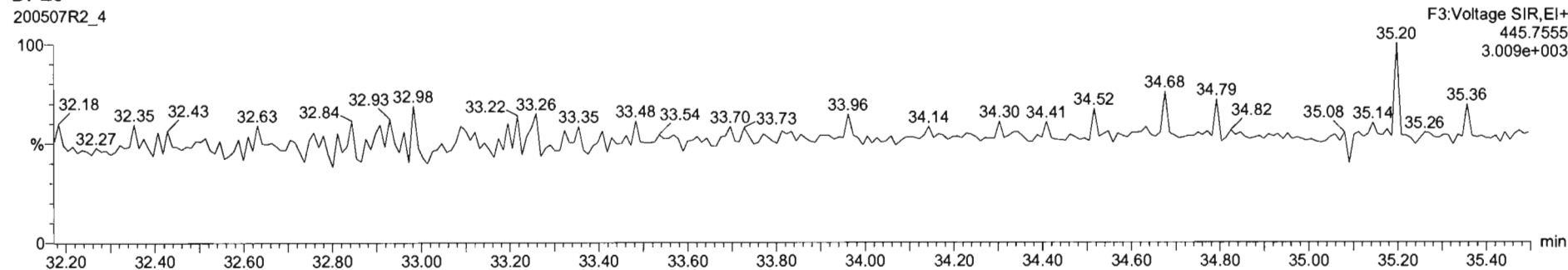
1,2,3,4,7,8-HxCDF



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

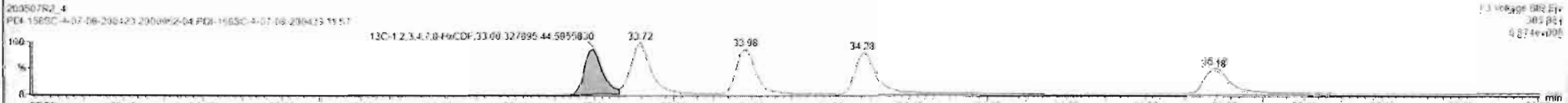
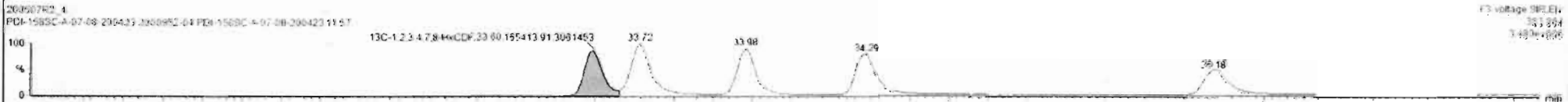
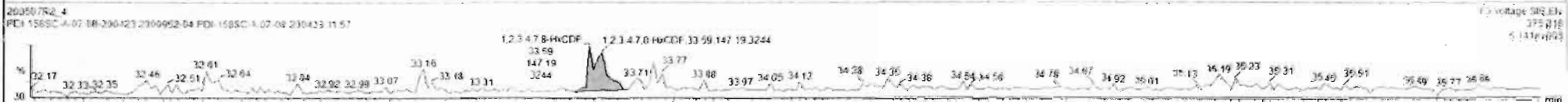
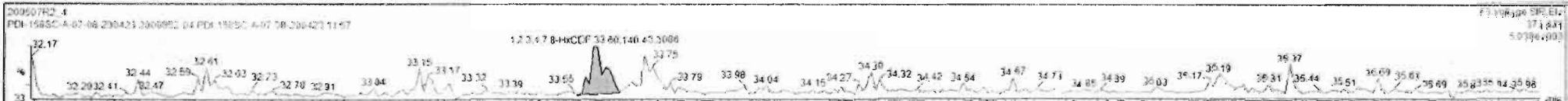


DPE3



Name	Resp	RA	n/y	Rfif	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.91	10.001					0.0132	
45 Total Penta-Furans				0.91	10.001			0.117		0.0794	0.117
46 Total Hexa-Furans				0.52	10.001			0.000		0.0459	0.117
47 Total Hepta-Furans				0.87	10.001					0.0794	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,7,8-HxCDF	33.60	1.484e2	1.472e2	0.96	YES	0.11709	0.00000



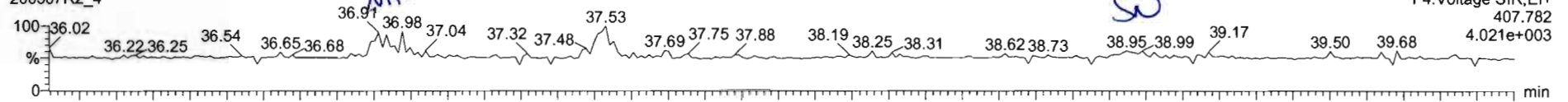
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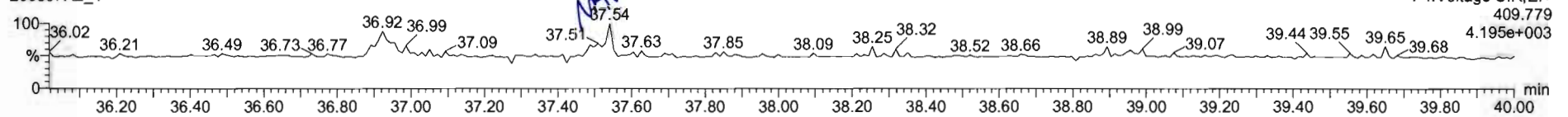
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1,2,3,4,6,7,8-HpCDF

200507R2_4

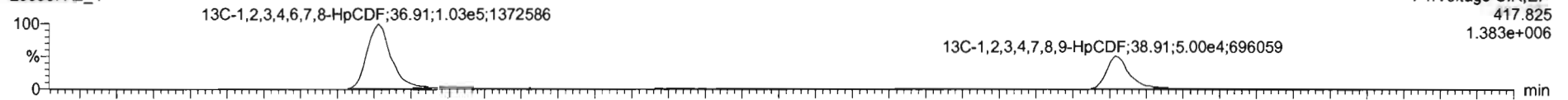


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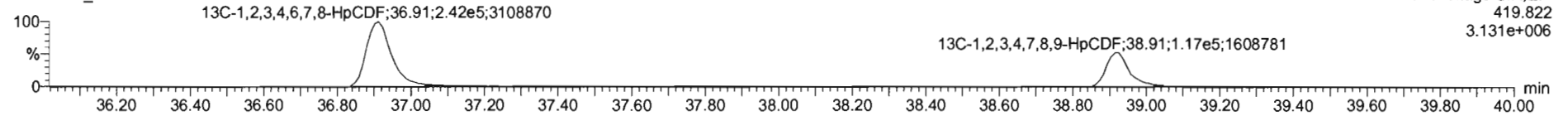


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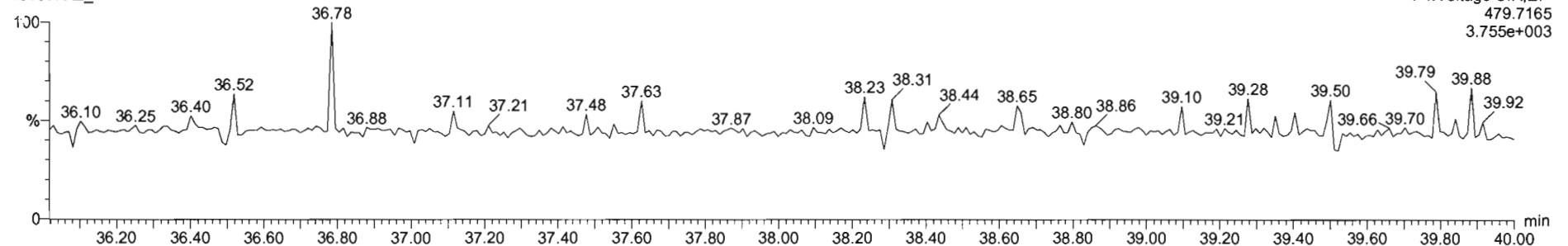


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DPE4

200507R2_4

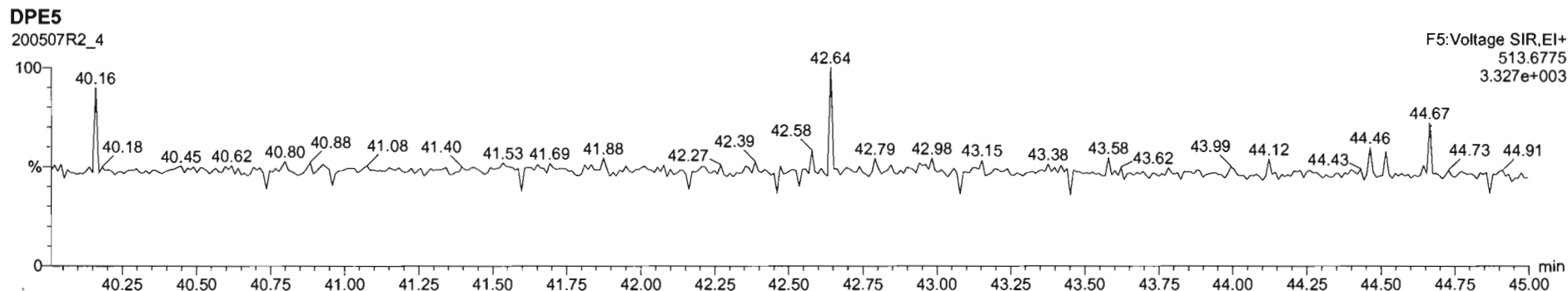
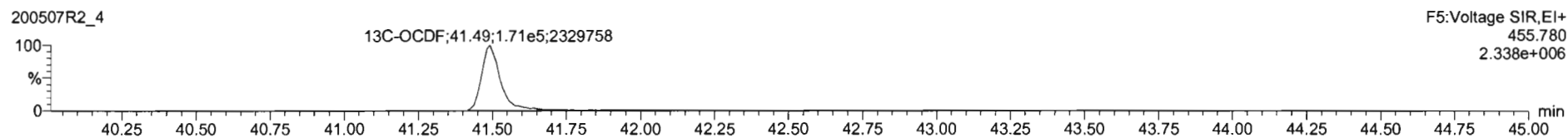
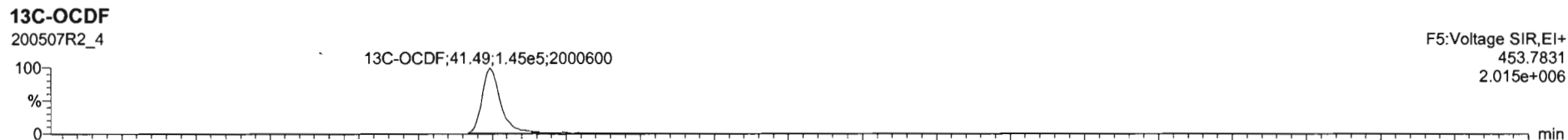
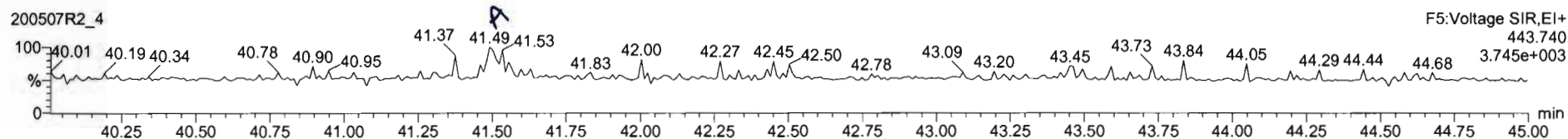
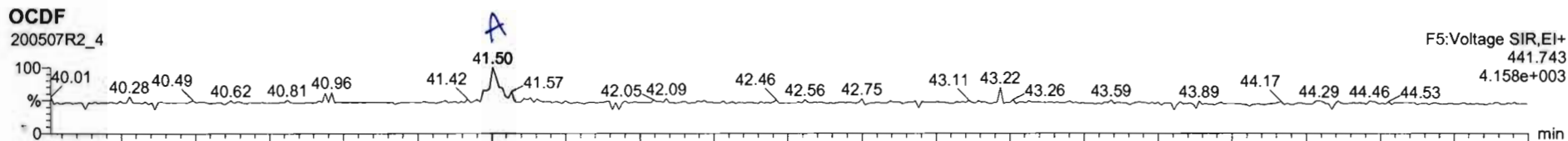


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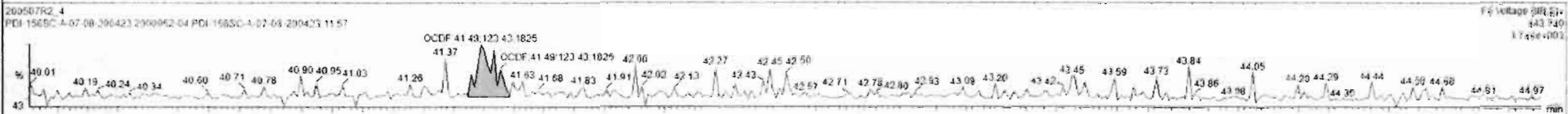
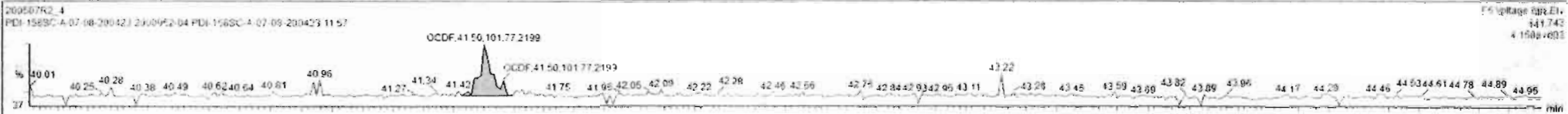
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Name: 200507R2_4, Date: 07-May-2020, Time: 16:51:47, ID: 2000952-04 PDI-158SC-A-07-08-200423 11.57, Description: PDI-158SC-A-07-08-200423



SI	Name	Resp	RA	nfy	RRF	VolVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.95	10.001					0.0577	
2	1,2,3,7,8-PeCDD			NO	0.94	10.001					0.0523	
3	1,2,3,4,7,8-HxCDD			NO	1.06	10.001					0.133	
4	1,2,3,6,7,8-HxCDD			NO	0.91	10.001					0.121	
5	1,2,3,7,8,9-HxCDD			NO	0.91	10.001					0.160	
6	1,2,3,4,6,7,8-HpCDD	2.18e3	1.03	NO	0.99	10.001	38.34	1.900	1.69		0.333	1.35
7	OCDD	1.08e4	0.93	NO	0.93	10.001	41.32	1.000	13.3		0.421	13.3
8	2,3,7,8-TCDF			NO	0.79	10.001					0.0590	
9	1,2,3,7,8-PeCDF	4.69e2	0.92	YES	0.91	10.001	29.80	1.001	0.125		0.0859	0.0984
10	2,3,4,7,8-PeCDF			NO	0.97	10.001					0.0665	
11	1,2,3,4,7,8-HxCDF			NO	0.88	10.001					0.0665	
12	1,2,3,6,7,8-HxCDF			NO	0.87	10.001					0.0757	
13	2,3,4,6,7,8-HxCDF			NO	0.92	10.001					0.0507	
14	1,2,3,7,8,9-HxCDF			NO	0.86	10.001					0.182	
15	1,2,3,4,6,7,8-HpCDF			NO	0.87	10.001					0.0514	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.001					0.158	
17	OCDF	2.25e2	0.82	NO	0.80	10.001	41.50	1.000	0.355		0.207	0.355



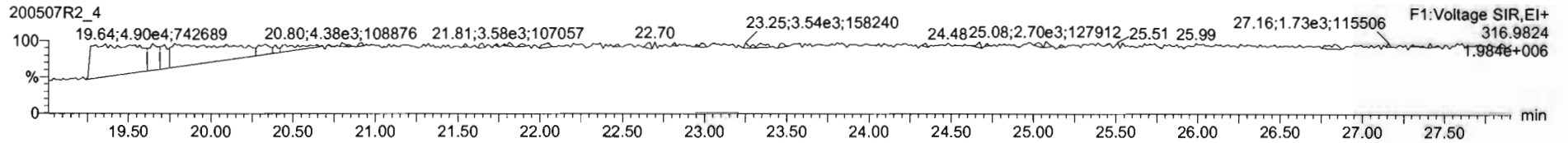
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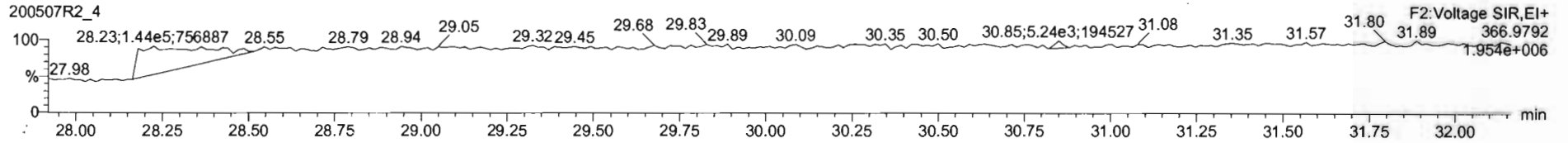
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Name: 200507R2_4, Date: 07-May-2020, Time: 16:51:47, ID: 2000952-04 PDI-158SC-A-07-08-200423 11.57, Description: PDI-158SC-A-07-08-200423

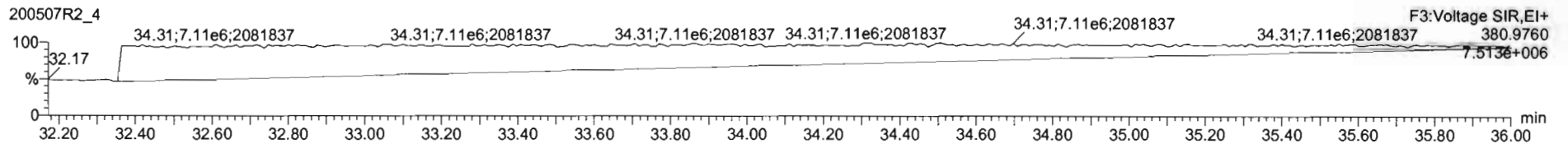
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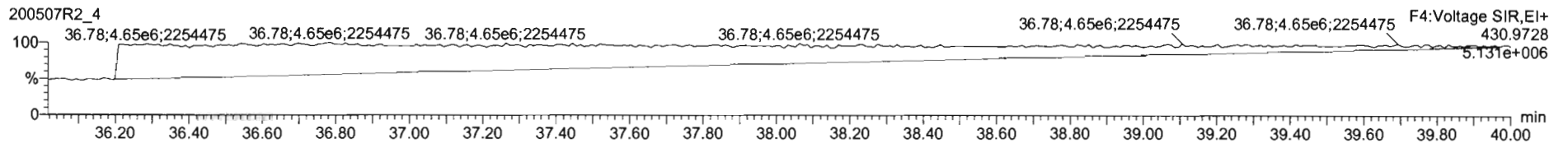
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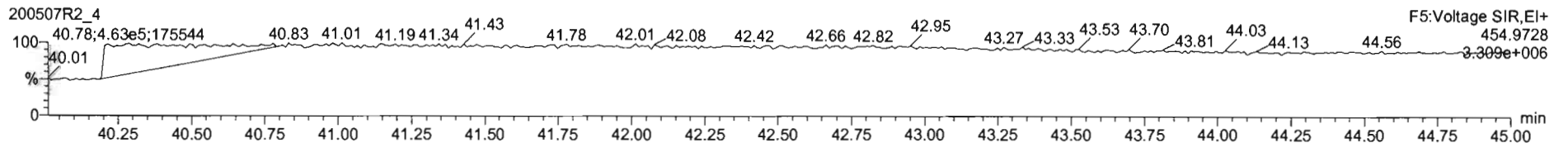
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200507R2\200507R2-5.qld

Last Altered: Friday, May 08, 2020 12:36:21 PM Pacific Daylight Time
Printed: Friday, May 08, 2020 12:36:57 PM Pacific Daylight Time

GRB 05/08/2020
C705/14/2020

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

Name: 200507R2_5, Date: 07-May-2020, Time: 17:38:00, ID: 2000952-05 PDI-160SC-A-00-01-200423 12.66, Description: PDI-160SC-A-00-01-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.101	26.006		1.001				0.112	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.101	31.101		1.001				0.142	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.101	34.462		1.000				0.261	
4	4 1,2,3,6,7,8-HxCDD	2.26e3	1.34	NO	0.915	10.101	34.559	34.57	1.000	1.000	0.91442		0.259	0.914
5	5 1,2,3,7,8,9-HxCDD	1.12e3	1.35	NO	0.915	10.101	34.846	34.85	1.000	1.000	0.54871		0.326	0.549
6	6 1,2,3,4,6,7,8-HpCDD	3.36e4	1.06	NO	0.898	10.101	38.340	38.35	1.000	1.001	26.243		0.683	26.2
7	7 OCDD	1.86e5	0.85	NO	0.933	10.101	41.322	41.34	1.000	1.001	209.76		0.681	210
8	8 2,3,7,8-TCDF	8.62e3	0.77	NO	0.787	10.101	25.057	25.06	1.001	1.001	2.0857	<i>OK</i>	0.144	2.09
9	9 1,2,3,7,8-PeCDF	6.88e3	1.53	NO	0.910	10.101	29.788	29.78	1.001	1.001	1.5752		0.114	1.58
10	10 2,3,4,7,8-PeCDF	3.37e3	1.32	NO	0.966	10.101	30.790	30.79	1.001	1.001	0.76908		0.110	0.769
11	11 1,2,3,4,7,8-HxCDF	6.54e3	1.15	NO	0.878	10.101	33.600	33.62	1.000	1.001	2.6211		0.154	2.62
12	12 1,2,3,6,7,8-HxCDF	2.09e3	1.10	NO	0.874	10.101	33.727	33.74	1.000	1.001	0.70970		0.145	0.710
13	13 2,3,4,6,7,8-HxCDF	7.29e2	1.39	NO	0.922	10.101	34.326	34.29	1.001	1.000	0.28711		0.162	0.287
14	14 1,2,3,7,8,9-HxCDF	4.02e2	1.08	NO	0.864	10.101	35.176	35.21	1.000	1.001	0.22247		0.301	0.222
15	15 1,2,3,4,6,7,8-HpCDF	6.09e3	1.05	NO	0.871	10.101	36.949	36.92	1.001	1.000	3.6553		0.213	3.66
16	16 1,2,3,4,7,8,9-HpCDF	6.61e2	0.93	NO	1.01	10.101	38.925	38.95	1.000	1.001	0.70244		0.358	0.702
17	17 OCDF	6.84e3	0.81	NO	0.802	10.101	41.503	41.52	1.000	1.001	9.2771		0.204	9.28
18	18 13C-2,3,7,8-TCDD	8.32e5	0.77	NO	1.16	10.101	25.969	25.98	1.026	1.027	179.59	90.7	0.373	
19	19 13C-1,2,3,7,8-PeCDD	6.14e5	0.64	NO	0.847	10.101	31.049	31.08	1.227	1.228	181.42	91.6	0.397	
20	20 13C-1,2,3,4,7,8-HxCDD	4.01e5	1.29	NO	0.750	10.101	34.463	34.45	1.014	1.014	180.12	91.0	0.756	
21	21 13C-1,2,3,6,7,8-HxCDD	5.34e5	1.27	NO	0.963	10.101	34.575	34.56	1.017	1.017	186.94	94.4	0.588	
22	22 13C-1,2,3,7,8,9-HxCDD	4.42e5	1.31	NO	0.838	10.101	34.844	34.84	1.025	1.025	177.82	89.8	0.676	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.82e5	1.04	NO	0.641	10.101	38.331	38.33	1.128	1.128	148.43	75.0	0.914	
24	24 13C-OCDD	3.75e5	0.89	NO	0.586	10.101	41.321	41.32	1.216	1.216	215.75	54.5	0.593	
25	25 13C-2,3,7,8-TCDF	1.04e6	0.80	NO	1.03	10.101	25.030	25.03	0.989	0.989	167.89	84.8	0.540	
26	26 13C-1,2,3,7,8-PeCDF	9.50e5	1.59	NO	0.845	10.101	29.741	29.77	1.176	1.177	187.76	94.8	0.998	
27	27 13C-2,3,4,7,8-PeCDF	8.99e5	1.61	NO	0.814	10.101	30.731	30.76	1.215	1.216	184.35	93.1	1.04	
28	28 13C-1,2,3,4,7,8-HxCDF	5.62e5	0.50	NO	1.00	10.101	33.603	33.60	0.989	0.989	188.64	95.3	0.905	
29	29 13C-1,2,3,6,7,8-HxCDF	6.67e5	0.51	NO	1.14	10.101	33.726	33.72	0.992	0.992	197.78	99.9	0.800	
30	30 13C-2,3,4,6,7,8-HxCDF	5.45e5	0.51	NO	1.02	10.101	34.293	34.29	1.009	1.009	179.84	90.8	0.890	
31	31 13C-1,2,3,7,8,9-HxCDF	4.14e5	0.51	NO	0.845	10.101	35.184	35.18	1.035	1.035	165.09	83.4	1.08	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-5.qld

Last Altered: Friday, May 08, 2020 12:36:21 PM Pacific Daylight Time

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Name: 200507R2_5, Date: 07-May-2020, Time: 17:38:00, ID: 2000952-05 PDI-160SC-A-00-01-200423 12.66, Description: PDI-160SC-A-00-01-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.79e5	0.43	NO	0.771	10.101	36.913	36.91	1.086	1.086	165.52	83.6	0.971	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.84e5	0.42	NO	0.482	10.101	38.922	38.92	1.145	1.145	128.68	65.0	1.55	
34	34 13C-OCDF	3.64e5	0.87	NO	0.669	10.101	41.491	41.50	1.221	1.221	183.51	46.3	0.407	
35	35 37Cl-2,3,7,8-TCDD	3.02e5			1.10	10.101	25.999	25.99	1.028	1.027	68.766	86.8	0.0818	
36	36 13C-1,2,3,4-TCDD	7.91e5	0.79	NO	1.00	10.101	25.350	25.30	1.000	1.000	197.99	100	0.433	
37	37 13C-1,2,3,4-TCDF	1.19e6	0.79	NO	1.00	10.101	23.560	23.50	1.000	1.000	197.99	100	0.558	
38	38 13C-1,2,3,4,6,9-HxCDF	5.87e5	0.50	NO	1.00	10.101	34.000	33.98	1.000	1.000	197.99	100	0.910	
39	39 Total Tetra-Dioxins				0.947	10.101	24.620		0.000		2.9454		0.112	2.95
40	40 Total Penta-Dioxins				0.942	10.101	29.960		0.000		12.259		0.142	12.3
41	41 Total Hexa-Dioxins				0.915	10.101	33.635		0.000		11.883		0.294	11.9
42	42 Total Hepta-Dioxins				0.898	10.101	37.640		0.000		62.245		0.683	62.2
43	43 Total Tetra-Furans				0.787	10.101	23.610		0.000		7.7228		0.144	7.72
44	44 1st Func. Penta-Furans				0.910	10.101	27.090		0.000		1.4803		0.0318	1.48
45	45 Total Penta-Furans				0.910	10.101	29.275		0.000		3.4629		0.115	5.14
46	46 Total Hexa-Furans				0.922	10.101	33.555		0.000		8.1318		0.173	8.13
47	47 Total Hepta-Furans				0.871	10.101	37.835		0.000		10.972		0.279	11.0

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Dataset: U:\VG12.PRO\Results\200507R2\200507R2-5.qld

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

Name: 200507R2_5, Date: 07-May-2020, Time: 17:38:00, ID: 2000952-05 PDI-160SC-A-00-01-200423 12.66, Description: PDI-160SC-A-00-01-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.81	2.000e4	1.997e4	1.707e3	1.932e3	0.88	NO	3.639e3	0.91371	0.91371	0.112
2	Total Tetra-Dioxins	22.26	7.488e3	1.131e4	7.909e2	9.149e2	0.86	NO	1.706e3	0.42832	0.42832	0.112
3	Total Tetra-Dioxins	24.22	2.019e4	2.602e4	1.790e3	2.421e3	0.74	NO	4.211e3	1.0573	1.0573	0.112
4	Total Tetra-Dioxins	25.75	1.169e4	2.126e4	8.689e2	1.306e3	0.67	NO	2.174e3	0.54602	0.54602	0.112

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.82	1.670e5	2.593e5	1.286e4	2.032e4	0.63	NO	3.318e4	11.346	11.346	0.142
2	Total Penta-Dioxins	29.84	1.692e4	2.717e4	1.035e3	1.634e3	0.63	NO	2.669e3	0.91283	0.91283	0.142

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	1.081e5	9.185e4	6.028e3	5.049e3	1.19	NO	1.108e4	5.2268	5.2268	0.294
2	Total Hexa-Dioxins	33.55	2.408e4	1.748e4	1.375e3	1.049e3	1.31	NO	2.424e3	1.1439	1.1439	0.294
3	Total Hexa-Dioxins	33.79	6.495e4	5.514e4	4.598e3	3.983e3	1.15	NO	8.581e3	4.0490	4.0490	0.294
4	1,2,3,6,7,8-HxCDD	34.57	2.190e4	1.454e4	1.291e3	9.647e2	1.34	NO	2.255e3	0.91442	0.91442	0.259
5	1,2,3,7,8,9-HxCDD	34.85	1.106e4	6.492e3	6.434e2	4.768e2	1.35	NO	1.120e3	0.54871	0.54871	0.326

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.31	2.905e5	2.917e5	2.330e4	2.281e4	1.02	NO	4.611e4	36.002	36.002	0.683
2	1,2,3,4,6,7,8-HpCDD	38.35	2.053e5	2.011e5	1.731e4	1.630e4	1.06	NO	3.361e4	26.243	26.243	0.683

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Dataset: U:\VG12.PRO\Results\200507R2\200507R2-5.qld

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Name: 200507R2_5, Date: 07-May-2020, Time: 17:38:00, ID: 2000952-05 PDI-160SC-A-00-01-200423 12.66, Description: PDI-160SC-A-00-01-200423

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.24	2.827e3	4.071e3	2.508e2	3.373e2	0.74	NO	5.881e2	0.14226	0.14226	0.144
2	Total Tetra-Furans	20.84	2.421e4	3.037e4	2.197e3	2.870e3	0.77	NO	5.066e3	1.2256	1.2256	0.144
3	Total Tetra-Furans	21.78	1.639e4	2.139e4	1.337e3	1.783e3	0.75	NO	3.121e3	0.75494	0.75494	0.144
4	Total Tetra-Furans	23.50	1.145e4	1.767e4	1.443e3	1.714e3	0.84	NO	3.156e3	0.76356	0.76356	0.144
5	Total Tetra-Furans	24.09	3.173e4	4.500e4	3.052e3	4.229e3	0.72	NO	7.281e3	1.7612	1.7612	0.144
6	Total Tetra-Furans	24.94	1.613e4	1.629e4	7.853e2	1.171e3	0.67	NO	1.956e3	0.47314	0.47314	0.144
7	2,3,7,8-TCDF	25.06	4.341e4	5.392e4	3.739e3	4.883e3	0.77	NO	8.622e3	2.0857	2.0857	0.144
8	Total Tetra-Furans	25.47	5.338e3	6.988e3	4.203e2	5.518e2	0.76	NO	9.721e2	0.23516	0.23516	0.144
9	Total Tetra-Furans	27.16	8.001e3	1.024e4	5.174e2	6.453e2	0.80	NO	1.163e3	0.28126	0.28126	0.144

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.16	5.405e4	4.240e4	3.706e3	2.584e3	1.43	NO	6.290e3	1.4803	1.4803	0.0318

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.65	5.001e3	4.397e3	3.447e2	2.232e2	1.54	NO	5.679e2	0.13366	0.13366	0.115
2	Total Penta-Furans	28.79	4.658e4	2.799e4	3.779e3	1.945e3	1.94	YES	0.000e0	0.00000	1.1670	0.115
3	Total Penta-Furans	28.85	7.670e3	7.382e3	2.944e2	3.233e2	0.91	YES	0.000e0	0.00000	0.11398	0.115
4	Total Penta-Furans	29.37	1.378e4	1.113e4	1.010e3	9.264e2	1.09	YES	0.000e0	0.00000	0.39121	0.115
5	Total Penta-Furans	29.61	1.020e4	7.431e3	6.619e2	3.987e2	1.66	NO	1.061e3	0.24961	0.24961	0.115
6	1,2,3,7,8-PeCDF	29.78	6.998e4	4.636e4	4.165e3	2.715e3	1.53	NO	6.880e3	1.5752	1.5752	0.114
7	Total Penta-Furans	30.07	3.202e4	2.107e4	1.527e3	1.020e3	1.50	NO	2.547e3	0.59947	0.59947	0.115
8	2,3,4,7,8-PeCDF	30.79	3.394e4	2.133e4	1.918e3	1.455e3	1.32	NO	3.373e3	0.76908	0.76908	0.110
9	Total Penta-Furans	30.85	1.380e4	1.106e4	3.596e2	2.178e2	1.65	NO	5.773e2	0.13588	0.13588	0.115

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-5.qld

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Printed: Friday, May 08, 2020 12:36:57 PM Pacific Daylight Time

Name: 200507R2_5, Date: 07-May-2020, Time: 17:38:00, ID: 2000952-05 PDI-160SC-A-00-01-200423 12.66, Description: PDI-160SC-A-00-01-200423

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	1.936e4	1.296e4	9.960e2	7.585e2	1.31	NO	1.754e3	0.68893	0.68893	0.173
2	Total Hexa-Furans	32.61	4.091e4	3.294e4	2.230e3	1.688e3	1.32	NO	3.918e3	1.5386	1.5386	0.173
3	Total Hexa-Furans	33.16	4.851e4	4.118e4	2.638e3	2.223e3	1.19	NO	4.861e3	1.9089	1.9089	0.173
4	1,2,3,4,7,8-HxCDF	33.62	6.829e4	5.887e4	3.499e3	3.038e3	1.15	NO	6.537e3	2.6211	2.6211	0.154
5	1,2,3,6,7,8-HxCDF	33.74	1.990e4	1.584e4	1.092e3	9.971e2	1.10	NO	2.089e3	0.70970	0.70970	0.145
6	2,3,4,6,7,8-HxCDF	34.29	8.549e3	4.119e3	4.234e2	3.055e2	1.39	NO	7.289e2	0.28711	0.28711	0.162
7	1,2,3,7,8,9-HxCDF	35.21	4.963e3	4.137e3	2.088e2	1.929e2	1.08	NO	4.017e2	0.22247	0.22247	0.301
8	Total Hexa-Furans	35.25	4.815e3	4.621e3	2.152e2	1.795e2	1.20	NO	3.947e2	0.15498	0.15498	0.173

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.92	4.111e4	4.280e4	3.116e3	2.974e3	1.05	NO	6.090e3	3.6553	3.6553	0.213
2	Total Hepta-Furans	37.51	4.803e4	5.185e4	3.856e3	4.333e3	0.89	NO	8.189e3	6.6141	6.6141	0.279
3	1,2,3,4,7,8,9-HpCDF	38.95	4.320e3	5.077e3	3.178e2	3.429e2	0.93	NO	6.607e2	0.70244	0.70244	0.358

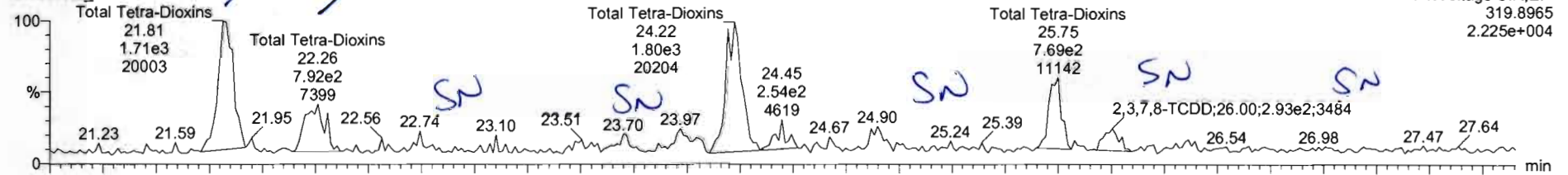
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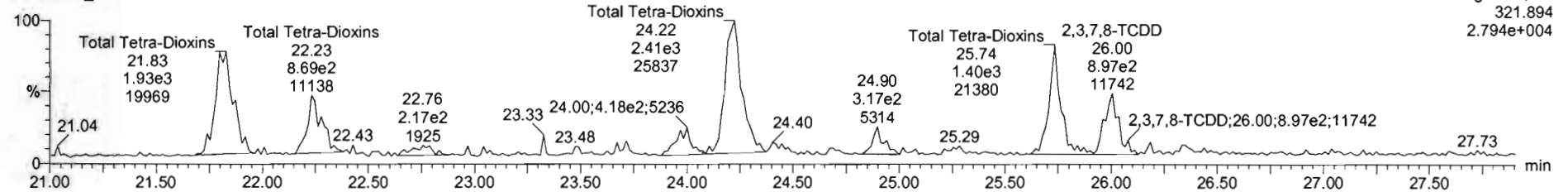
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200507R2_5



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2.225e+004

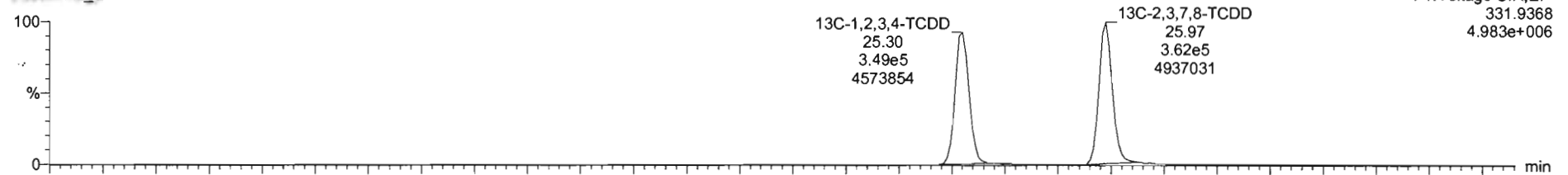
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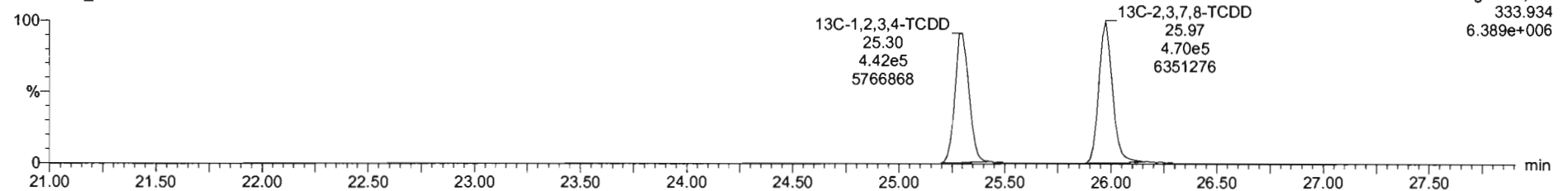
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200507R2_5



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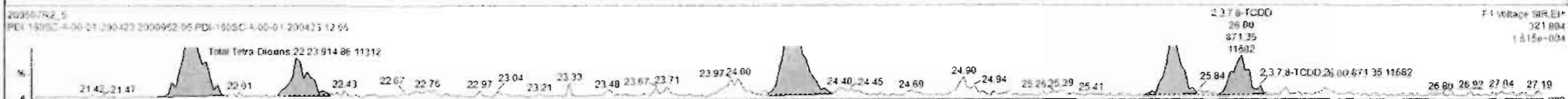
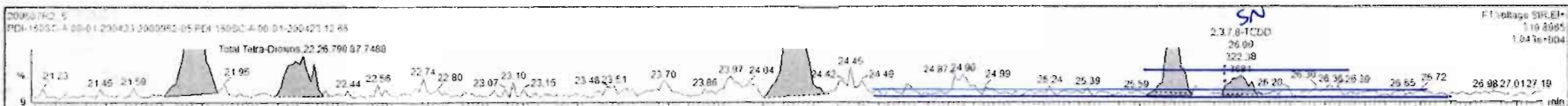
200507R2_5



F1:Voltage SIR,EI+
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6.389e+006

Name	Resp	RA	n/y	nRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra Dioxins				0.9475	10.101			2.95	0.112	3.13	
40 Total Penta Dioxins				0.9425	10.101			12.9	0.142	13.0	
41 Total Hexa Dioxins				0.9145	10.101			19.5	0.294	11.5	
42 Total Hepta Dioxins				0.8575	10.101			52.2	0.832	52.2	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra Dioxins	21.91	1.707e3	1.932e3	0.86	ND	0.91271	0.91271
2 Total Tetra Dioxins	22.26	7.900e2	0.140e2	0.86	ND	0.42632	0.42632
3 Total Tetra Dioxins	24.27	1.750e3	2.431e3	0.74	ND	1.0573	1.0573
4 Total Tetra Dioxins	26.75	6.680e2	1.308e3	0.67	ND	0.54002	0.54002
5 2,3,7,8-TCDD	26.00	3.224e2	6.714e2	0.57	YES	0.18028	0.58000



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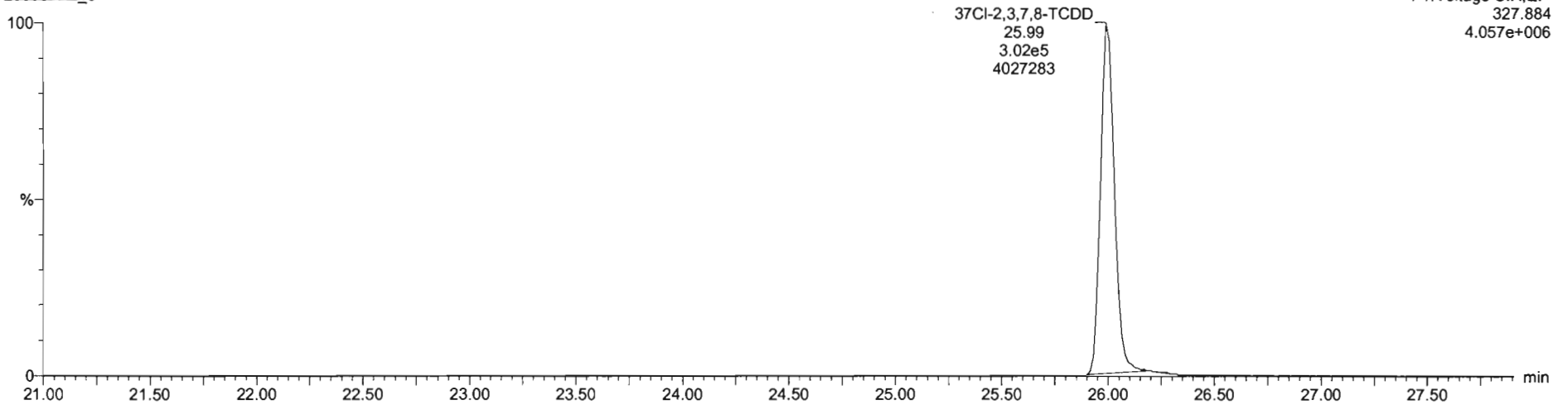
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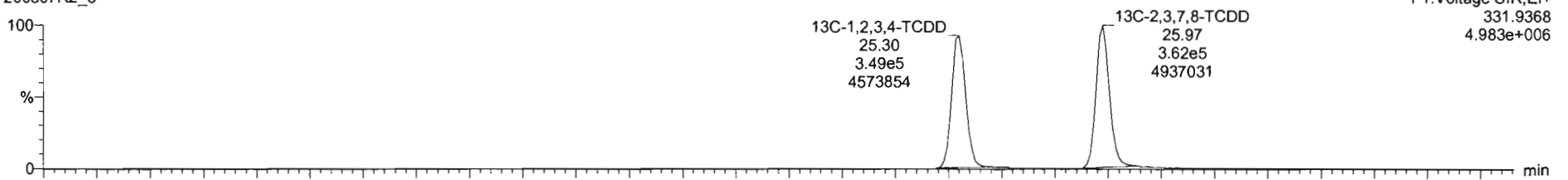
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200507R2_5

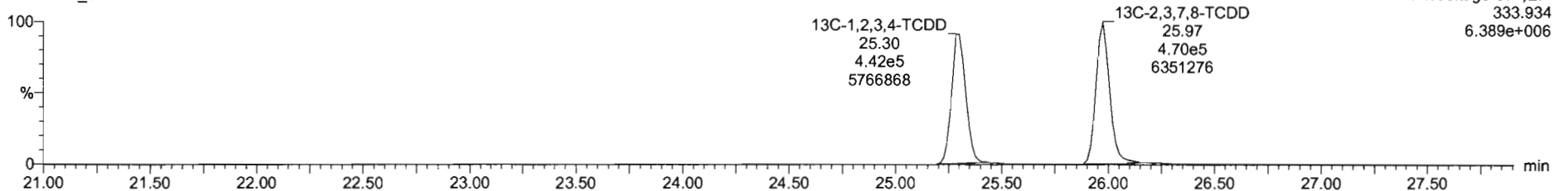


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200507R2_5



200507R2_5



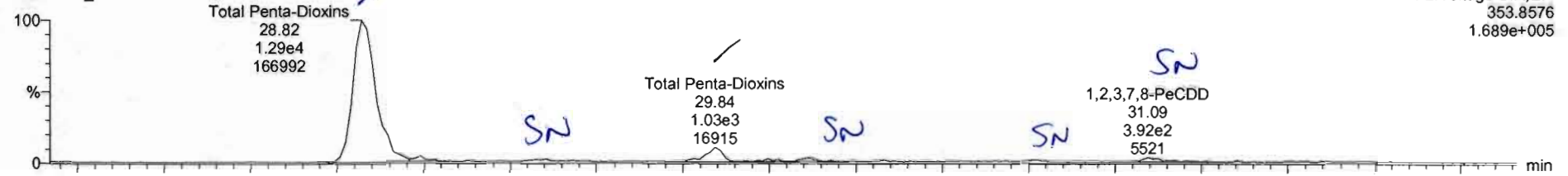
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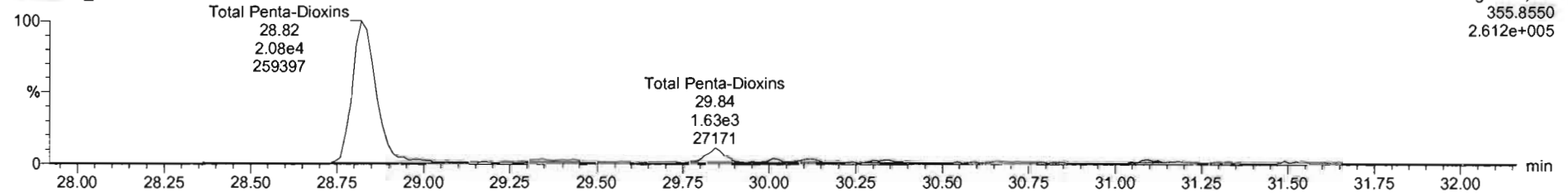
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1,2,3,7,8-PeCDD

200507R2_5

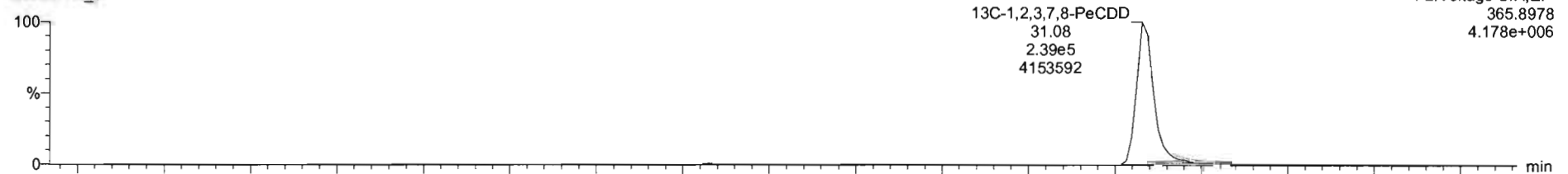


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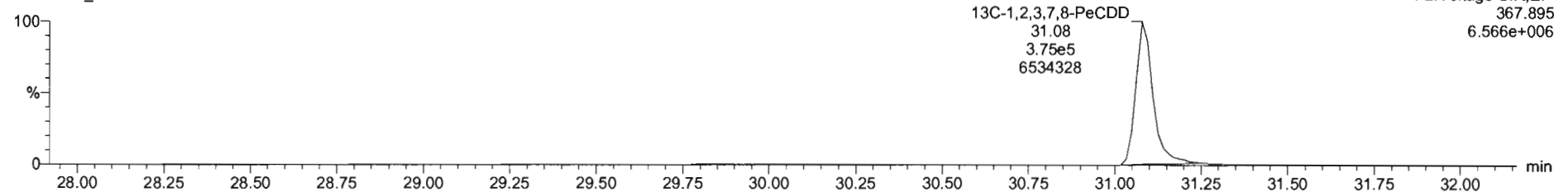


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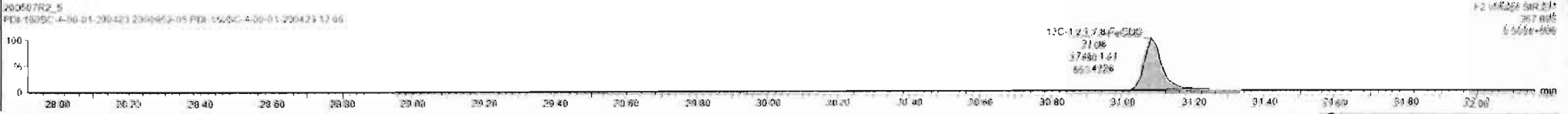
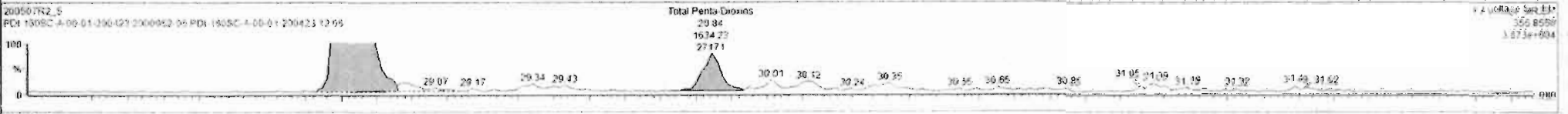
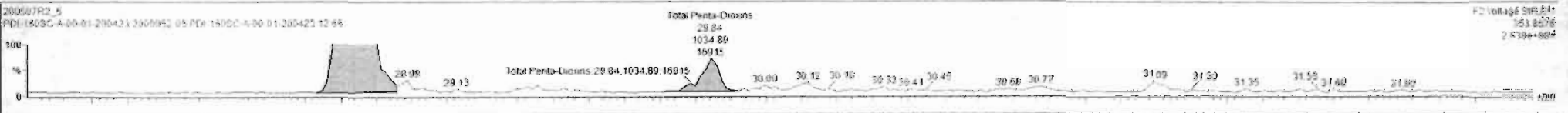


200507R2_5



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.101			2.55	0.112	2.95	
40 Total Penta-Dioxins				0.9425	10.101			12.3	0.142	12.3	
41 Total Hexa-Dioxins				0.9145	10.101			10.0	0.294	11.5	
42 Total Hepta-Dioxins				0.8575	10.101			52.2	0.683	52.2	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	29.82	1.280e4	2.022e4	0.63	NO	11.346	11.346
2 Total Penta-Dioxins	29.84	1.035e3	1.634e3	0.63	NO	0.91283	0.91283



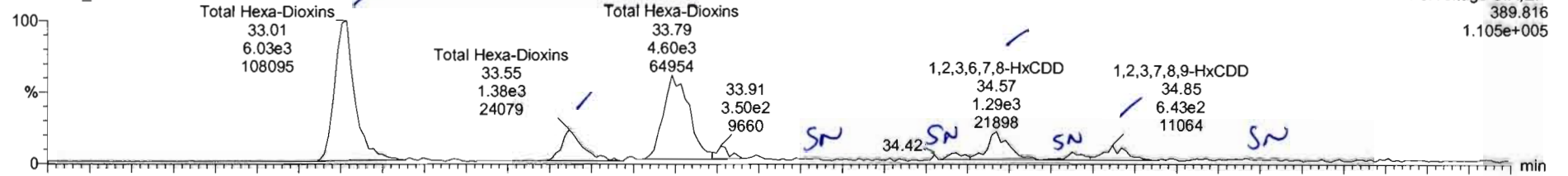
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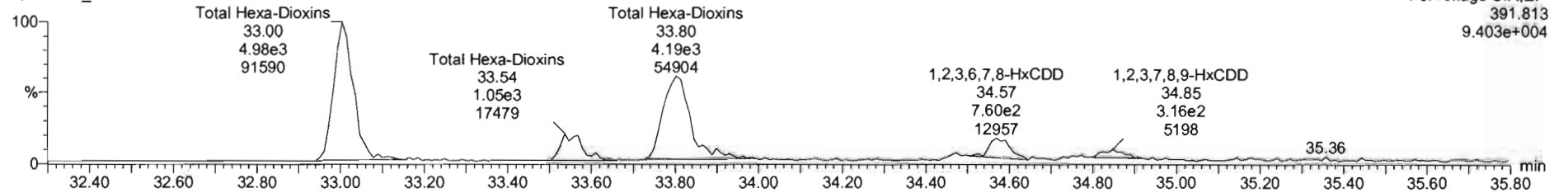
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1,2,3,4,7,8-HxCDD

200507R2_5

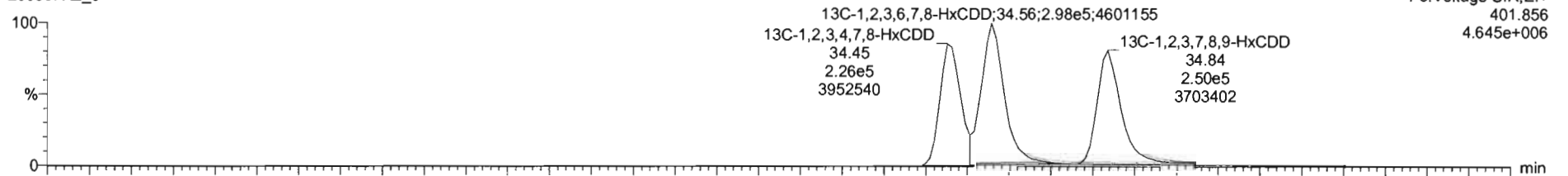


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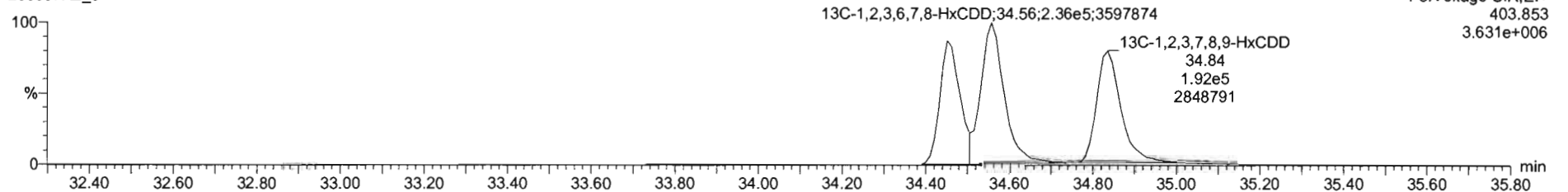


13C-1,2,3,4,7,8-HxCDD

200507R2_5



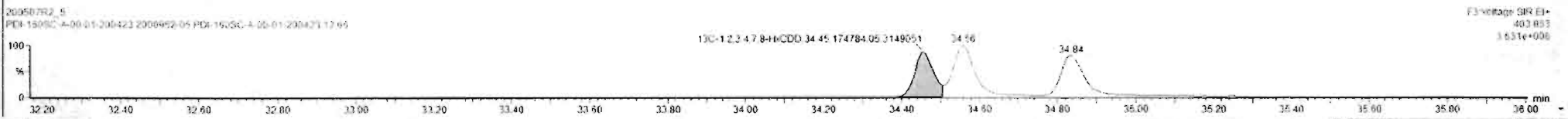
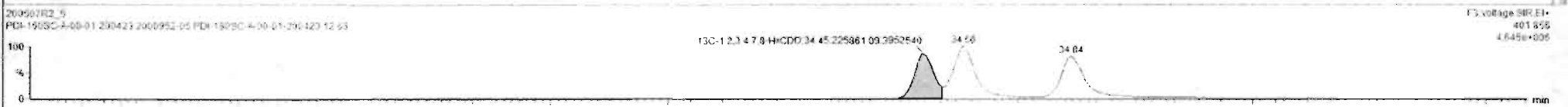
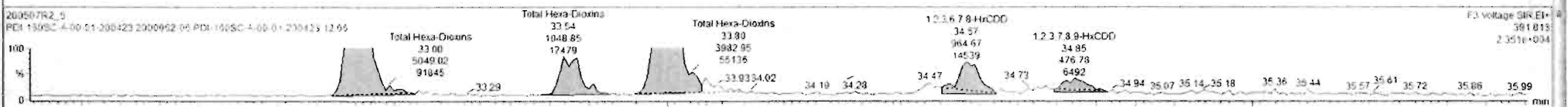
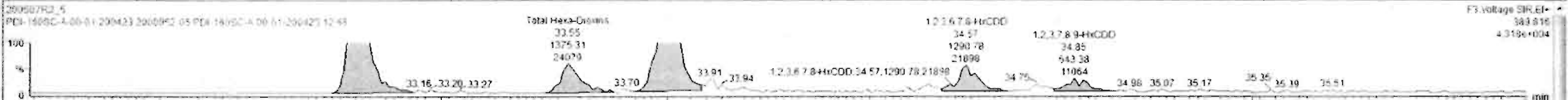
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2009952-05-PDI-160SC-A-00-01-200423 12:05 - PDI-160SC-A-00-01-200423

Name	Resp	RA	nty	RAF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.101			2.95	0.112	2.95	
40 Total Penta-Dioxins				0.9425	10.101			12.3	0.142	12.3	
41 Total Hexa-Dioxins				0.9145	10.101			11.9	0.294	11.9	
42 Total Hepta-Dioxins				0.8979	10.101			62.2	0.683	52.2	

Name	RT	m1 Resp	m2 Resp	RA	nty	EMPC	Conc.
1 Total Hexa-Dioxins	33.01	6.020e2	6.045e3	1.19	NO	5.2268	5.2268
2 Total Hexa-Dioxins	33.55	1.375e3	1.049e3	1.31	NO	1.1439	1.1439
3 Total Hexa-Dioxins	33.79	4.599e3	2.963e3	1.15	NO	4.0490	4.0490
4 1,2,3,6,7,8-HxCDD	34.57	1.291e2	0.647e2	1.34	NO	0.91442	0.91442
5 1,2,3,7,8,9-HxCDD	34.85	6.434e2	4.760e2	1.35	NO	0.54871	0.54871



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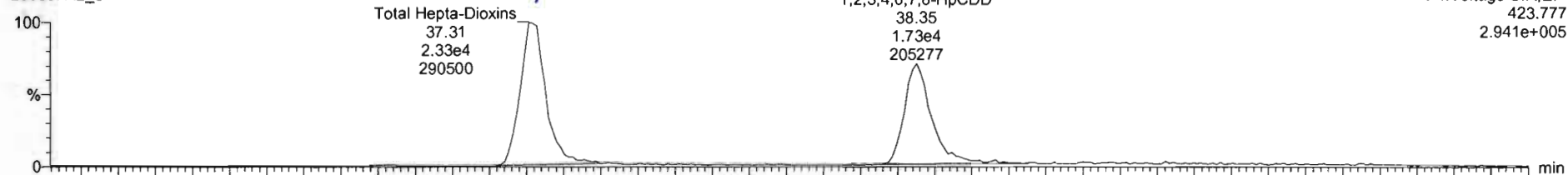
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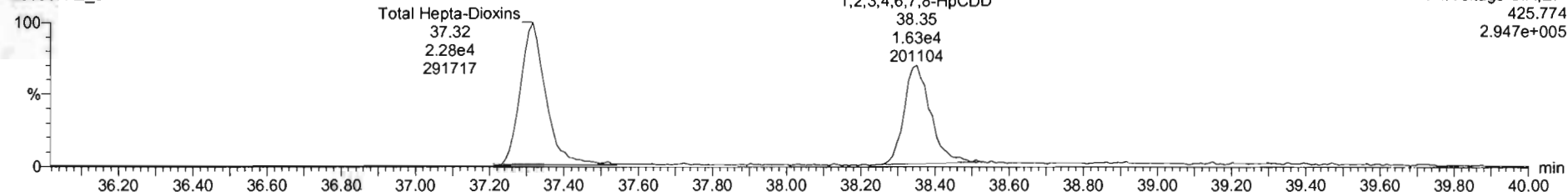
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1,2,3,4,6,7,8-HpCDD

200507R2_5

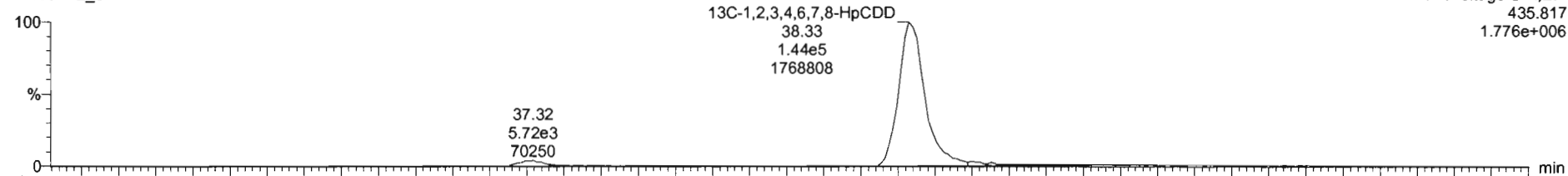


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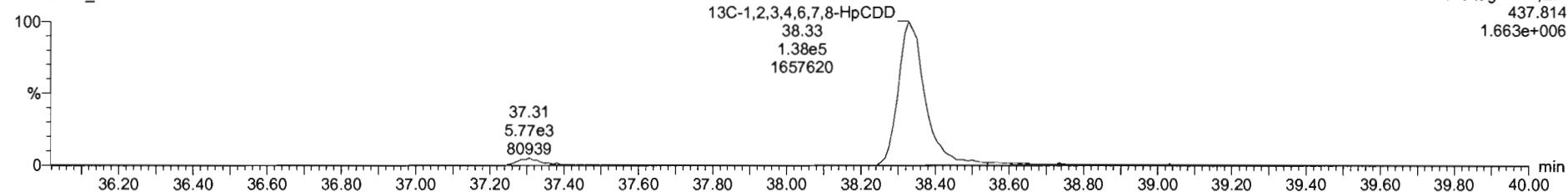


13C-1,2,3,4,6,7,8-HpCDD

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200507R2_5



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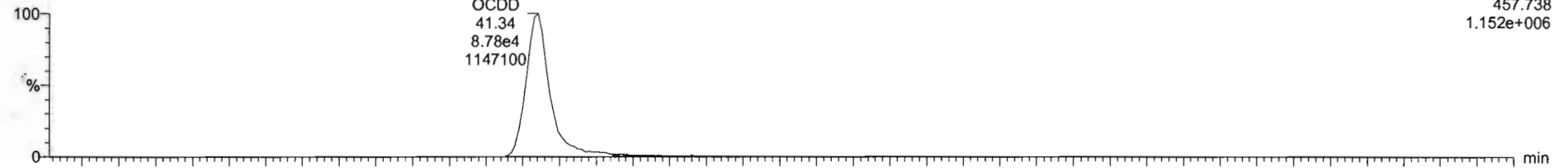
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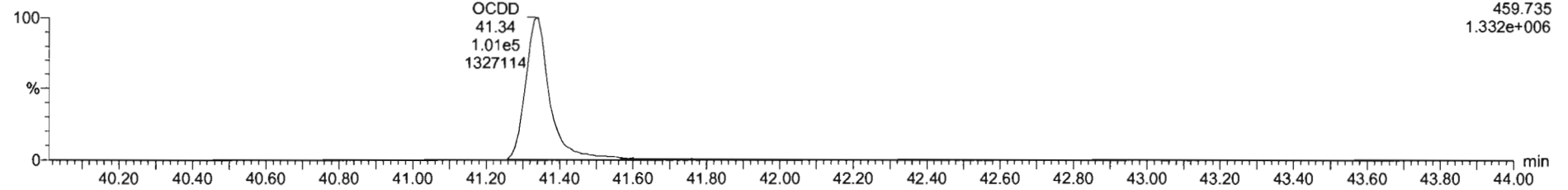
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OCDD

200507R2_5

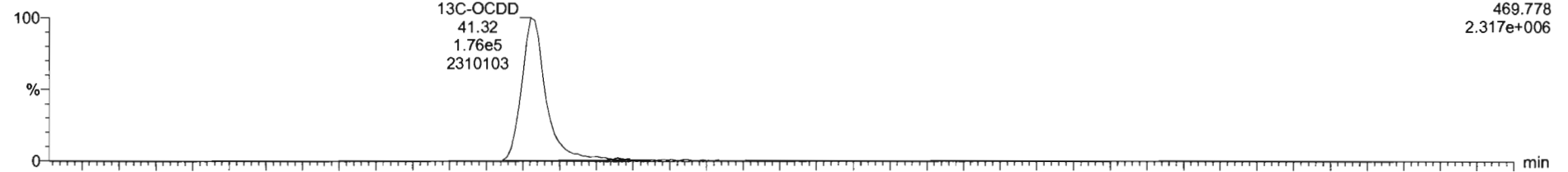


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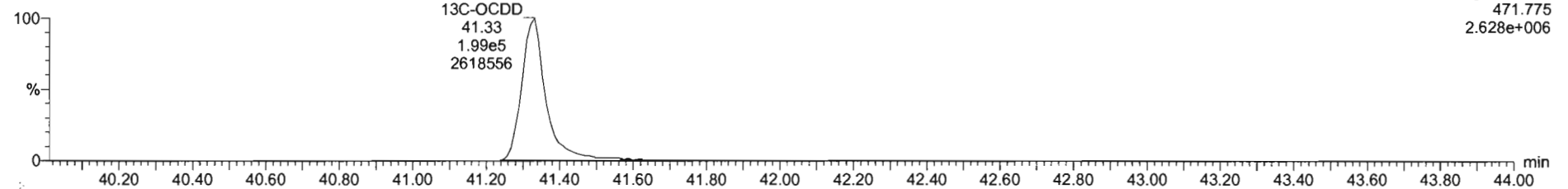


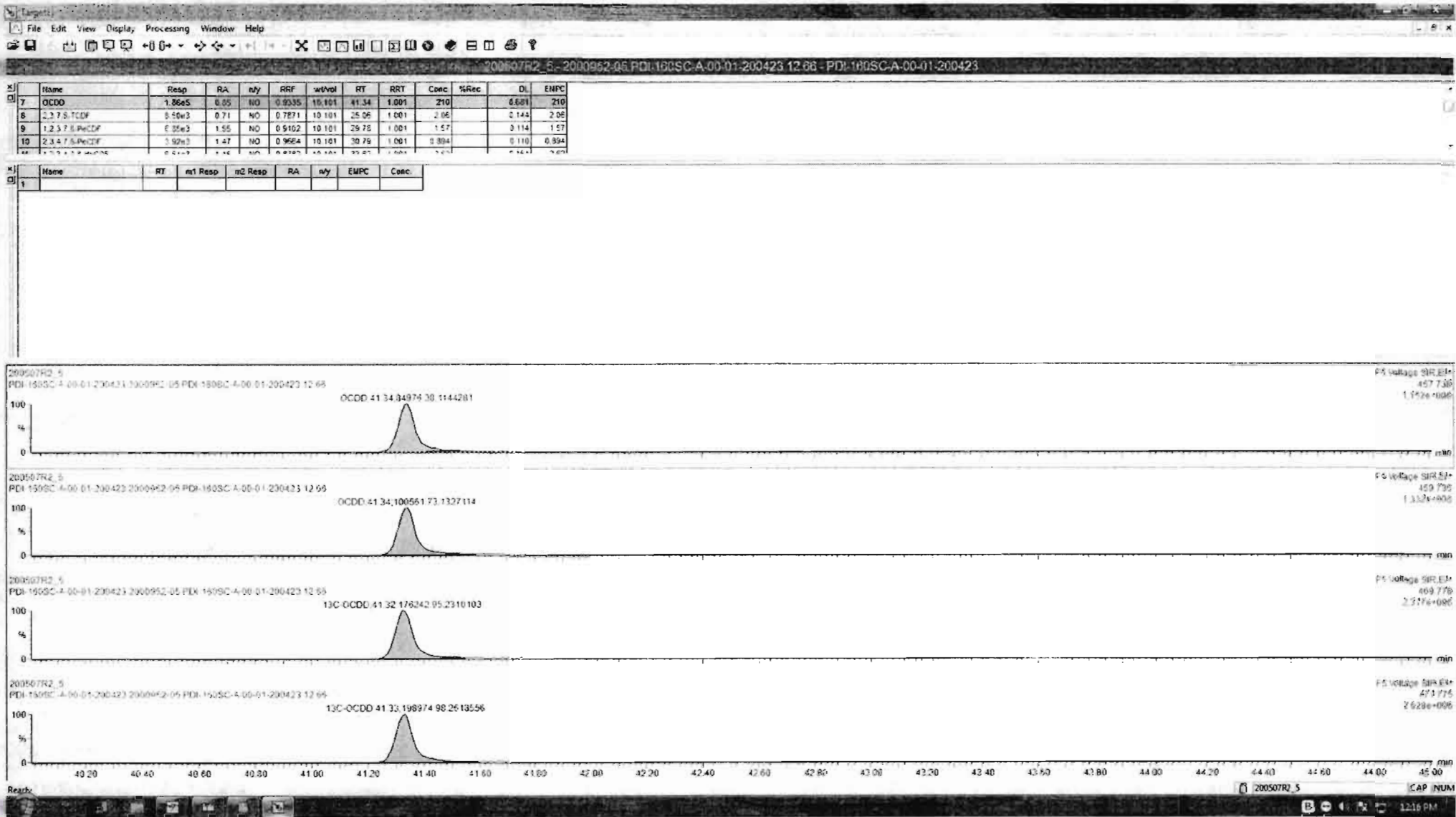
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200507R2_5





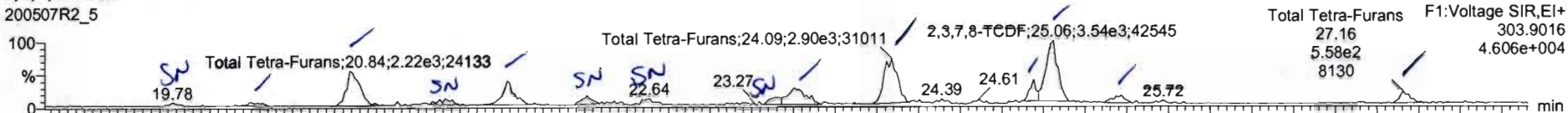
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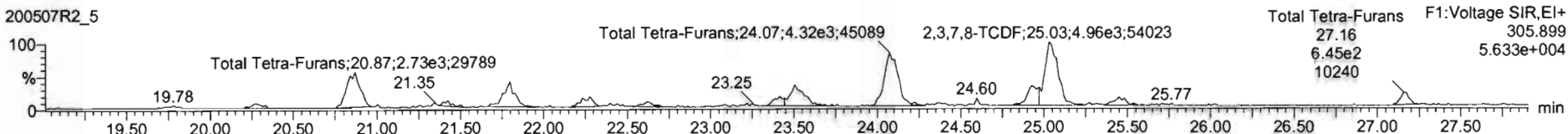
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2,3,7,8-TCDF

200507R2_5

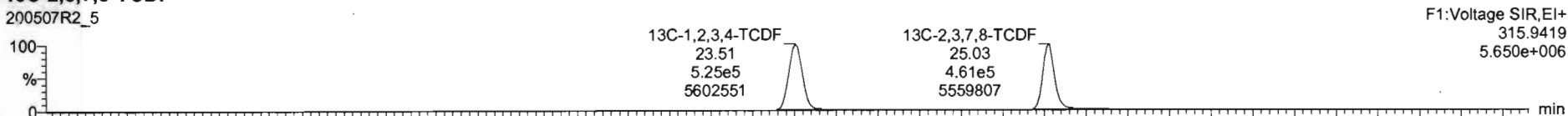


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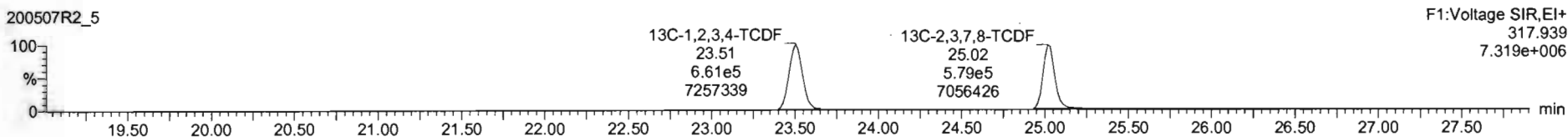


13C-2,3,7,8-TCDF

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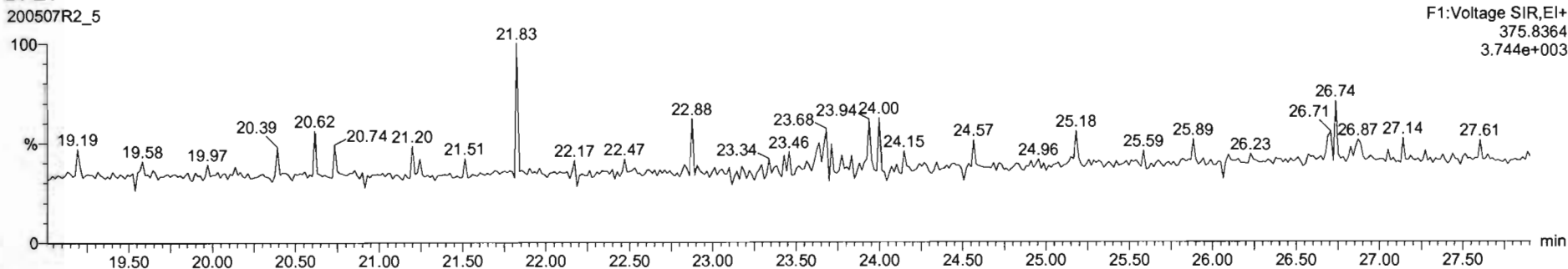


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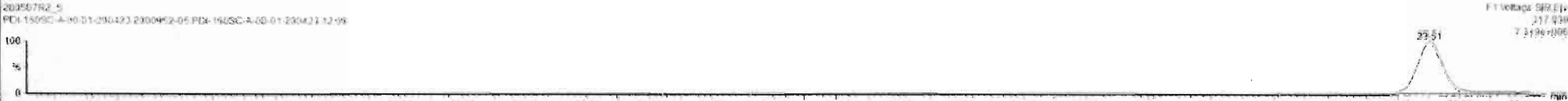
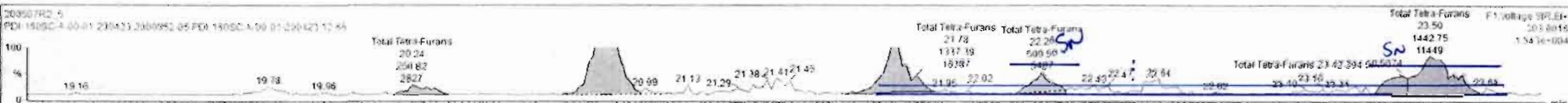
DPE1

200507R2_5



Name	Resp	RA	n/y	RRV	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.101			2.95		0.112	2.95
40 Total Penta-Dioxins				0.9425	10.101			12.3		0.142	12.3
41 Total Hexa-Dioxins				0.9145	10.101			11.9		0.294	11.9
42 Total Hepta-Dioxins				0.8974	10.101			42.2		0.683	42.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.24	2.506e2	3.373e2	0.74	NO	0.14226	0.14226
2 Total Tetra-Furans	20.84	2.157e3	2.870e3	0.77	NO	1.2256	1.2256
3 Total Tetra-Furans	21.78	1.327e3	1.783e3	0.75	NO	0.75494	0.75494
4 Total Tetra-Furans	22.36	5.095e3	7.452e3	0.68	NO	0.30263	0.30263
5 Total Tetra-Furans	23.42	3.945e2	5.227e2	0.75	NO	0.22167	0.22167
6 Total Tetra-Furans	23.50	1.443e3	1.714e3	0.84	NO	0.76356	0.76356
7 Total Tetra-Furans	24.09	2.890e3	4.233e3	0.67	NO	1.7471	1.7471
8 Total Tetra-Furans	24.94	6.806e2	1.259e3	0.52	YES	0.36744	0.00000
9 2,3,7,8-TCDF	25.06	3.542e3	4.956e3	0.71	NO	2.0566	2.0566
10 Total Tetra-Furans	25.47	4.203e3	5.921e3	0.71	NO	0.24491	0.24491
11 Total Tetra-Furans	27.16	5.075e2	6.453e2	0.66	NO	0.29106	0.29106



Name	Resp	RA	n/y	RRF	wVol	RT	RKT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	18.101			7.72		0.144	7.72
44 1st Func. Penta-Furans				0.9102	19.101			1.48		0.0318	1.48
45 Total Penta-Furans				0.9102	19.101			3.53		0.115	5.20
46 Total Hexa-Furans				0.9217	19.101			6.75		0.173	7.91
47 Total Hepta-Furans				0.9332	19.101			9.92		0.230	10.11

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.24	2.580e2	3.373e2	0.74	NO	0.14226	0.14226
2 Total Tetra-Furans	20.84	2.197e2	2.870e2	0.77	NO	1.2256	1.2256
3 Total Tetra-Furans	21.78	1.337e2	1.783e1	0.75	NO	0.78494	0.78494
4 Total Tetra-Furans	23.50	1.443e2	1.714e3	0.84	NO	0.76598	0.76598
5 Total Tetra-Furans	24.09	3.952e2	4.229e1	0.72	NO	1.7612	1.7612
6 Total Tetra-Furans	24.94	7.850e2	1.171e3	0.67	NO	0.47314	0.47314
7 2,3,7,8-TCDF	25.06	3.739e3	4.883e3	0.77	NO	2.0857	2.0857
8 Total Tetra-Furans	26.47	4.200e2	5.518e2	0.76	NO	0.23516	0.23516
9 Total Tetra-Furans	27.16	5.174e2	6.403e2	0.60	NO	0.28126	0.28126



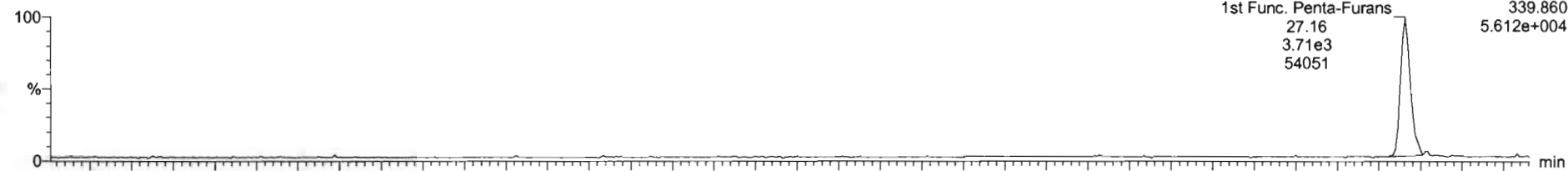
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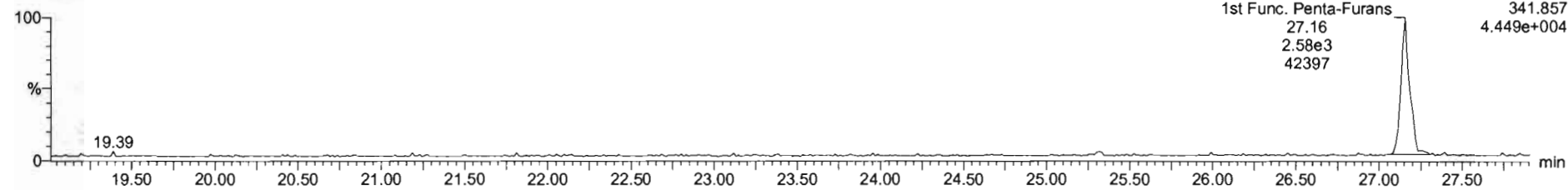
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1st Func. Penta-Furans

200507R2_5

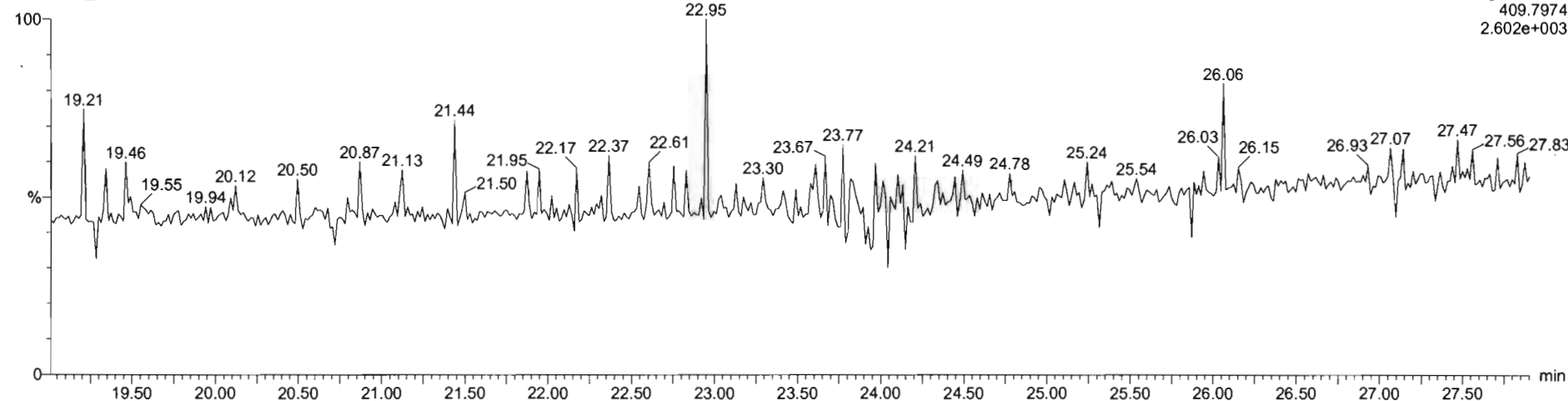


200507R2_5



DPE6

200507R2_5



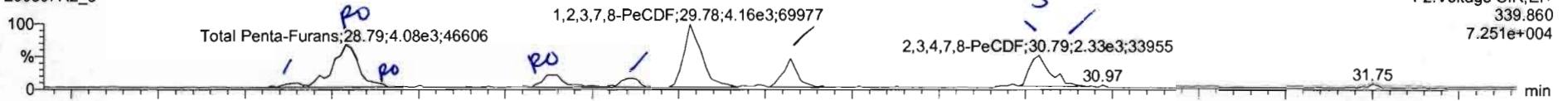
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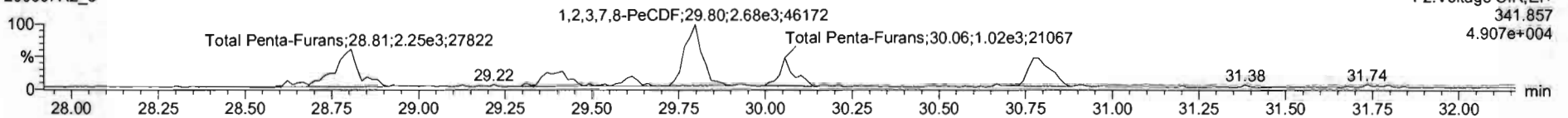
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1,2,3,7,8-PeCDF

200507R2_5

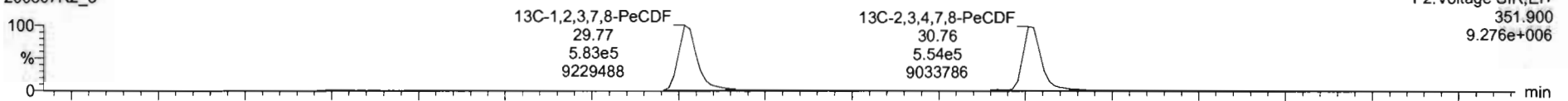


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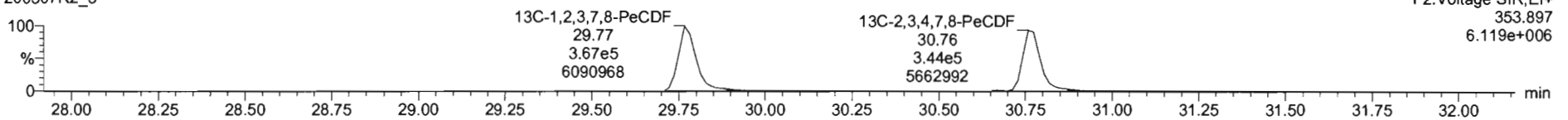


13C-1,2,3,7,8-PeCDF

200507R2_5

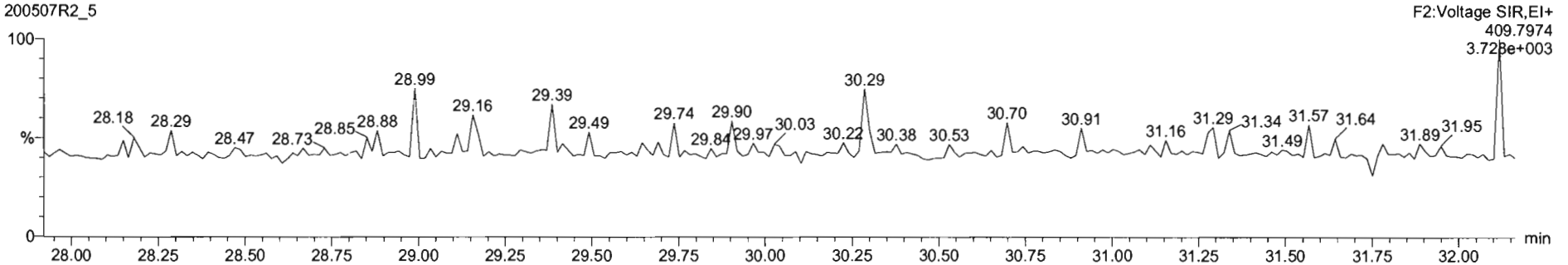


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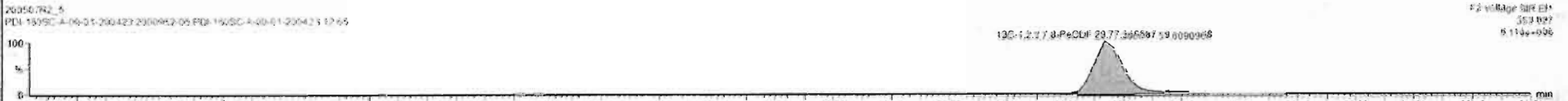
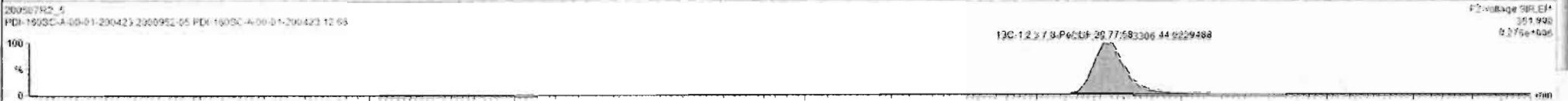
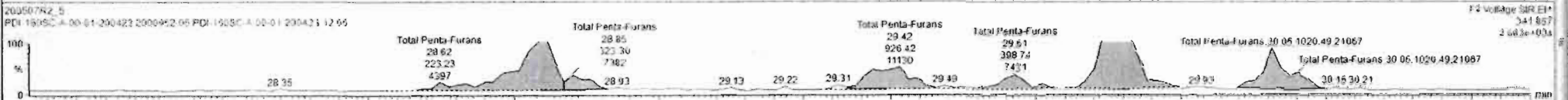
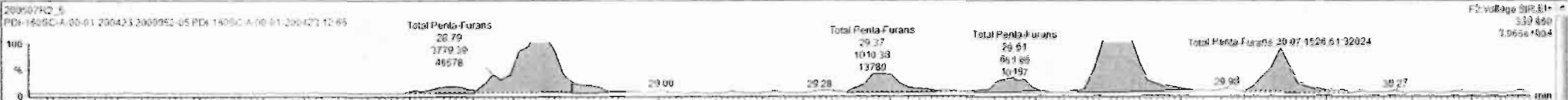
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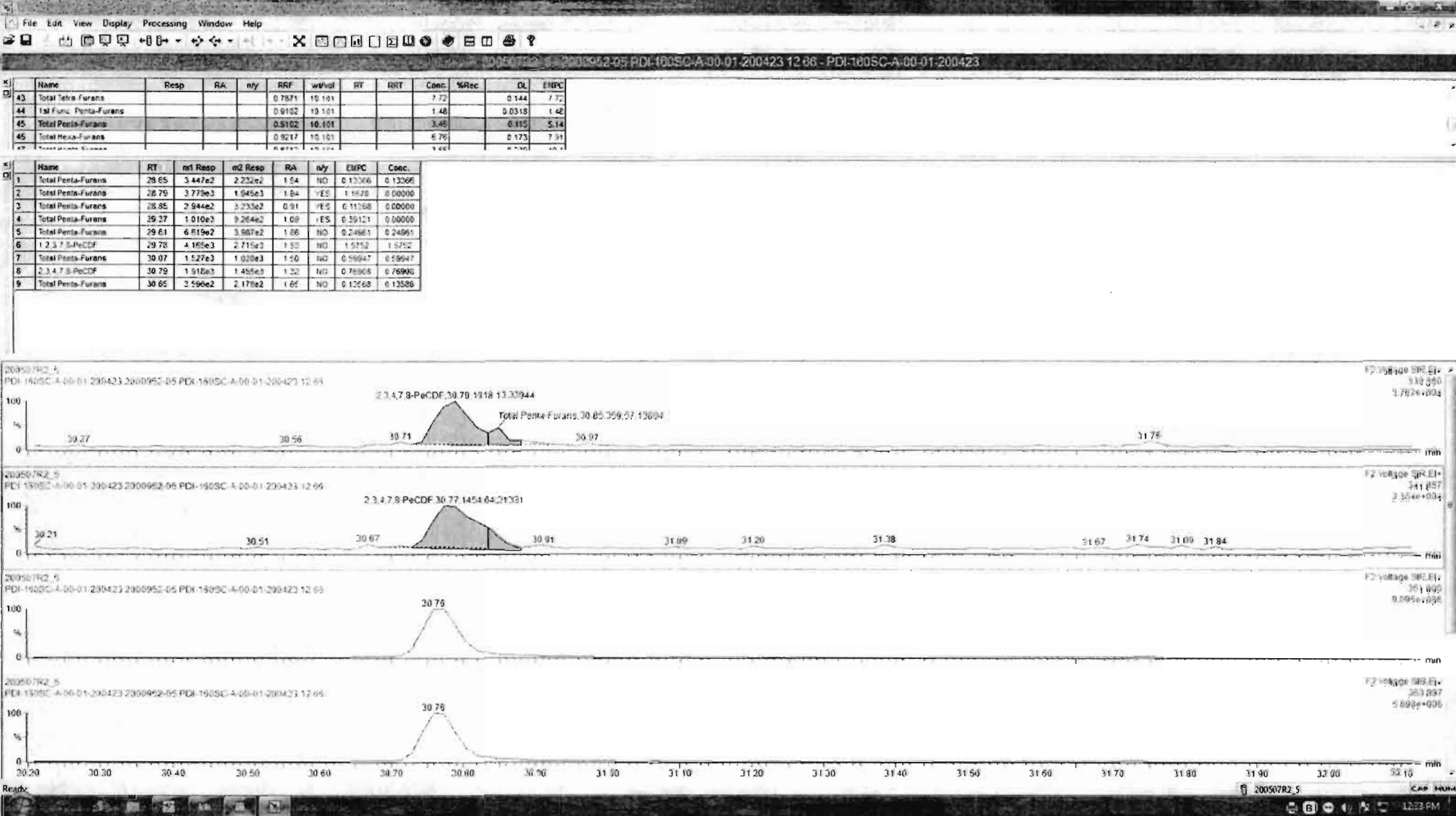
200507R2_5



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7877	10.101			7.72		0.144	7.71
44 1st Func. Penta-Furans				0.9102	10.101			1.40		0.0319	1.40
45 Total Penta-Furans				0.9102	10.101			3.32		0.115	3.10
46 Total Hexa-Furans				0.9217	10.101			6.76		0.173	7.31
47 Total Hepta-Furans				0.9271	10.101			9.24		0.293	10.1

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.65	3.447e2	2.232e2	1.54	NO	0.13266	0.13266
2 Total Penta-Furans	28.79	3.779e2	1.945e3	1.94	YES	1.1570	0.00000
3 Total Penta-Furans	28.85	2.944e2	2.232e2	0.91	YES	0.11568	0.00000
4 Total Penta-Furans	29.27	1.010e3	9.264e2	1.09	YES	0.39121	0.00000
5 Total Penta-Furans	29.61	6.015e2	3.967e2	1.66	NO	0.24561	0.24561
6 1,2,3,7,8-PeCDF	29.78	4.165e3	2.715e3	1.32	NO	1.5752	1.5752
7 Total Penta-Furans	30.07	1.527e3	1.020e3	1.16	NO	0.59547	0.59547
8 2,3,4,7,8-PeCDF	30.79	1.918e3	1.418e3	1.75	NO	0.78078	0.78078
9 Total Penta-Furans	30.66	4.256e2	1.765e2	2.35	YES	0.10711	0.00000





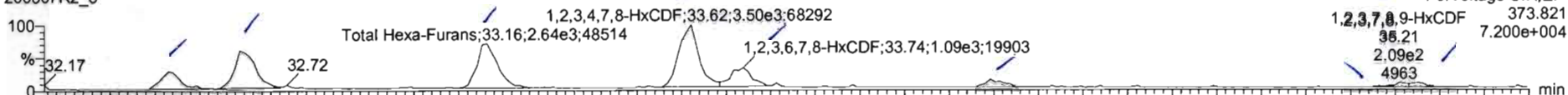
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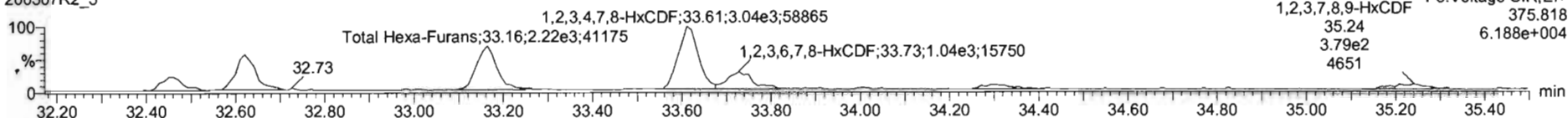
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1,2,3,4,7,8-HxCDF

200507R2_5

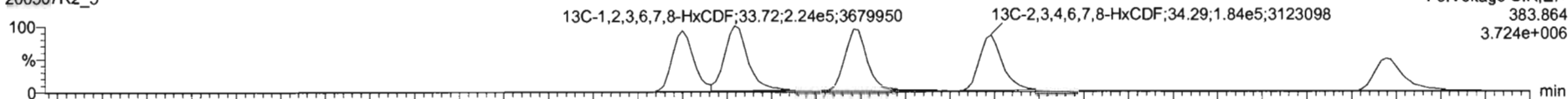


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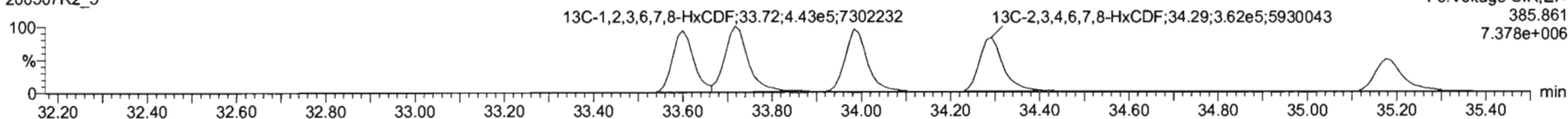


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200507R2_5

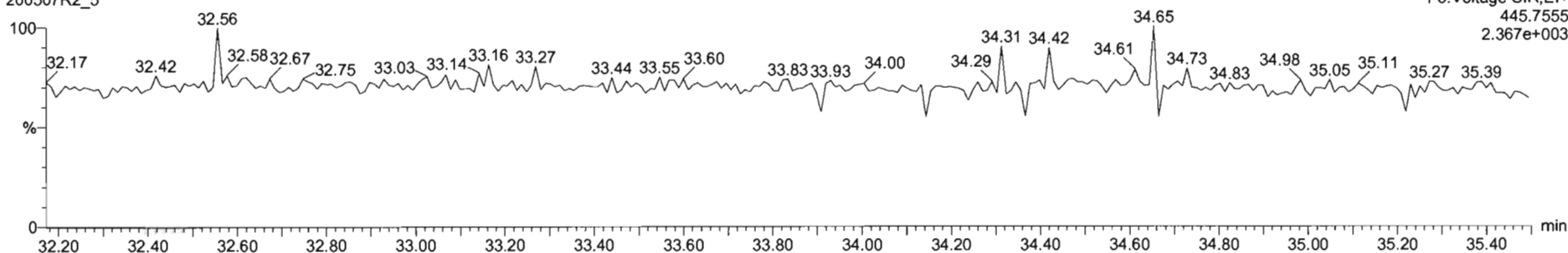


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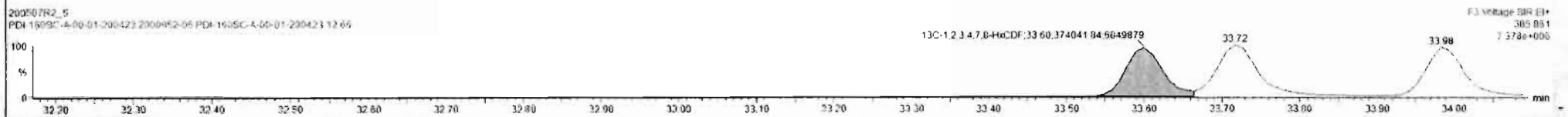
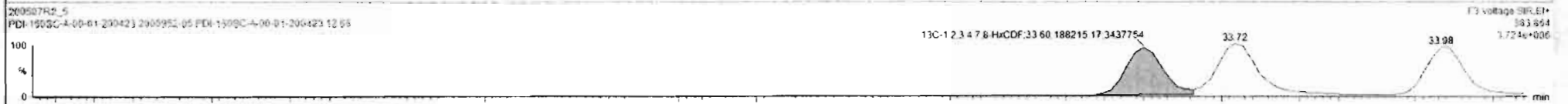
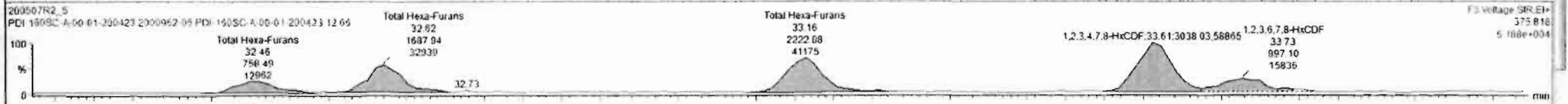
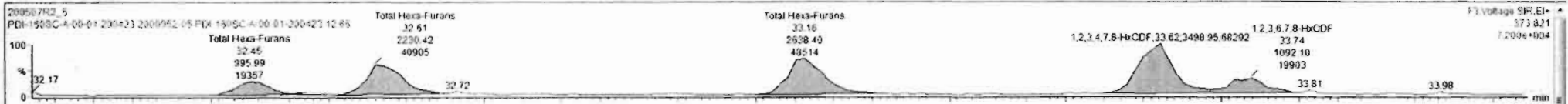
DPE3

200507R2_5



Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7971	10.101			7.72		0.144	7.72
44 1st Func. Penta-Furans				0.9102	10.101			1.48		0.0313	1.48
45 Total Penta-Furans				0.9102	10.101			3.46		0.115	5.14
46 Total Hexa-Furans				0.9217	10.101			7.47		0.179	7.95

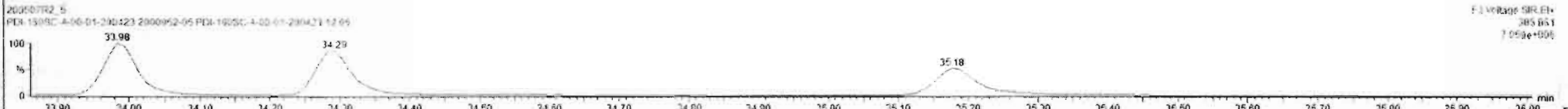
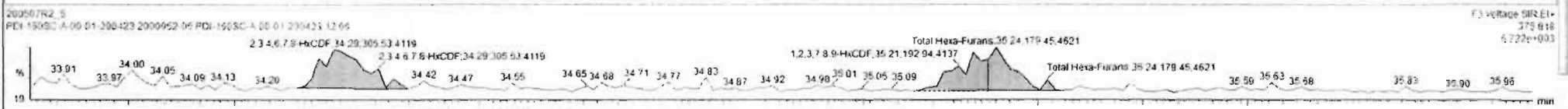
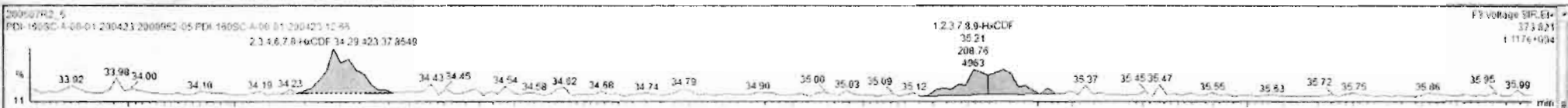
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.45	9.960e2	7.505e2	1.21	NO	0.68593	0.58392
2 Total Hexa-Furans	32.61	2.230e3	1.688e3	1.32	NO	1.5396	1.5396
3 Total Hexa-Furans	33.16	2.639e3	2.223e3	1.19	NO	1.9099	1.9099
4 1,2,3,4,7,8-HxCDF	33.52	3.495e3	3.038e3	1.15	NO	2.6211	2.6211
5 1,2,3,6,7,8-HxCDF	33.74	1.052e3	9.971e2	1.10	NO	0.70970	0.70970
6 2,3,4,6,7,8-HxCDF	34.29	4.353e2	3.055e2	1.44	YES	0.26958	0.00006
7 1,2,3,7,8,9-HxCDF	35.21	2.068e2	3.789e2	0.55	YES	0.20685	0.00000



Custom Reporting: Select reports to generate

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMFC
43 Total Tetra-Furans				0.7871	19.101			7.72		0.144	7.72
44 1st Func. Penta-Furans				0.9102	19.101			1.48		0.0318	1.48
45 Total Penta-Furans				0.9102	19.101			3.46		0.115	5.14
46 Total Hexa-Furans				0.9217	19.101			6.13		0.179	8.13

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMFC	Conc
1 Total Hexa-Furans	32.45	9.560e2	7.585e2	1.71	NO	0.68893	0.68893
2 Total Hexa-Furans	32.61	2.230e3	1.988e3	1.32	NO	1.5386	1.5386
3 Total Hexa-Furans	33.16	2.628e3	2.223e3	1.15	NO	1.9089	1.9089
4 1,2,3,4,7,8-HxCDF	33.62	3.495e3	3.028e3	1.15	NO	2.6211	2.6211
5 1,2,3,6,7,8-HxCDF	33.74	1.052e3	9.971e2	1.10	NO	0.70679	0.70979
6 2,3,4,6,7,8-HxCDF	34.29	4.234e2	3.055e2	1.39	NO	0.28711	0.28711
7 1,2,3,7,8,9-HxCDF	35.21	2.068e2	1.929e2	1.06	NO	0.22247	0.22247
8 Total Hexa-Furans	35.25	2.152e2	1.791e2	1.20	NO	0.15468	0.15468



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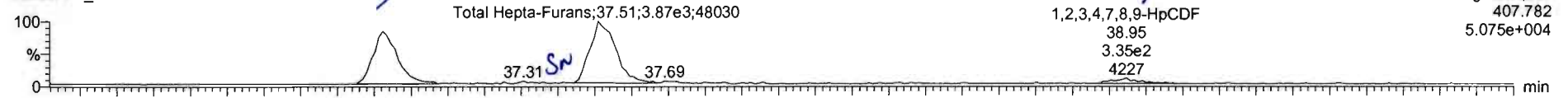
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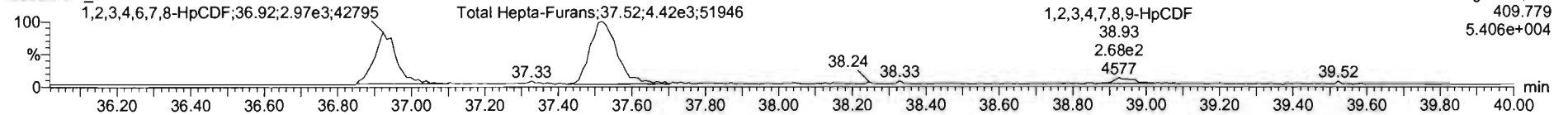
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1,2,3,4,6,7,8-HpCDF

200507R2_5



200507R2_5

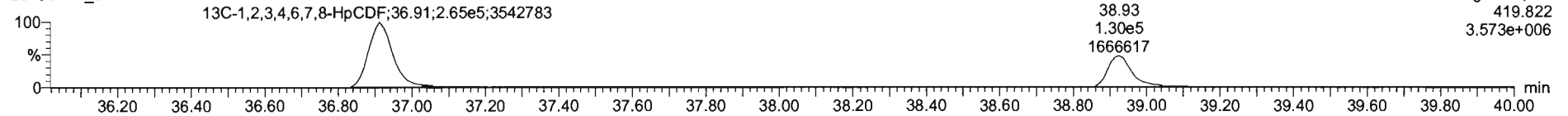


13C-1,2,3,4,6,7,8-HpCDF

200507R2_5

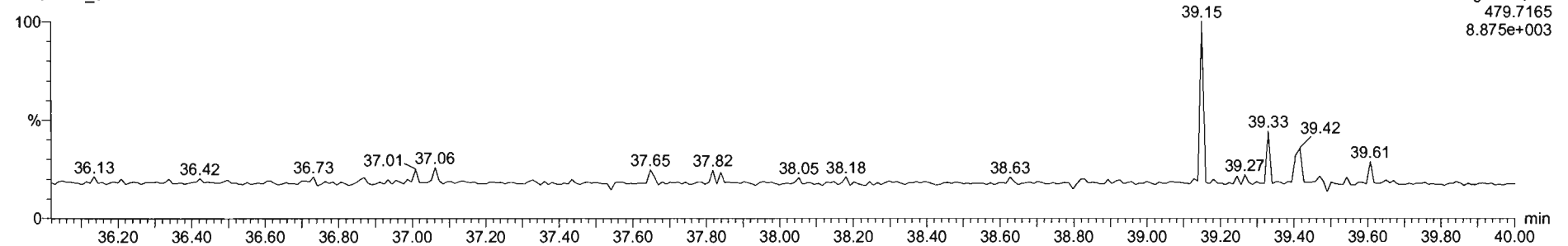


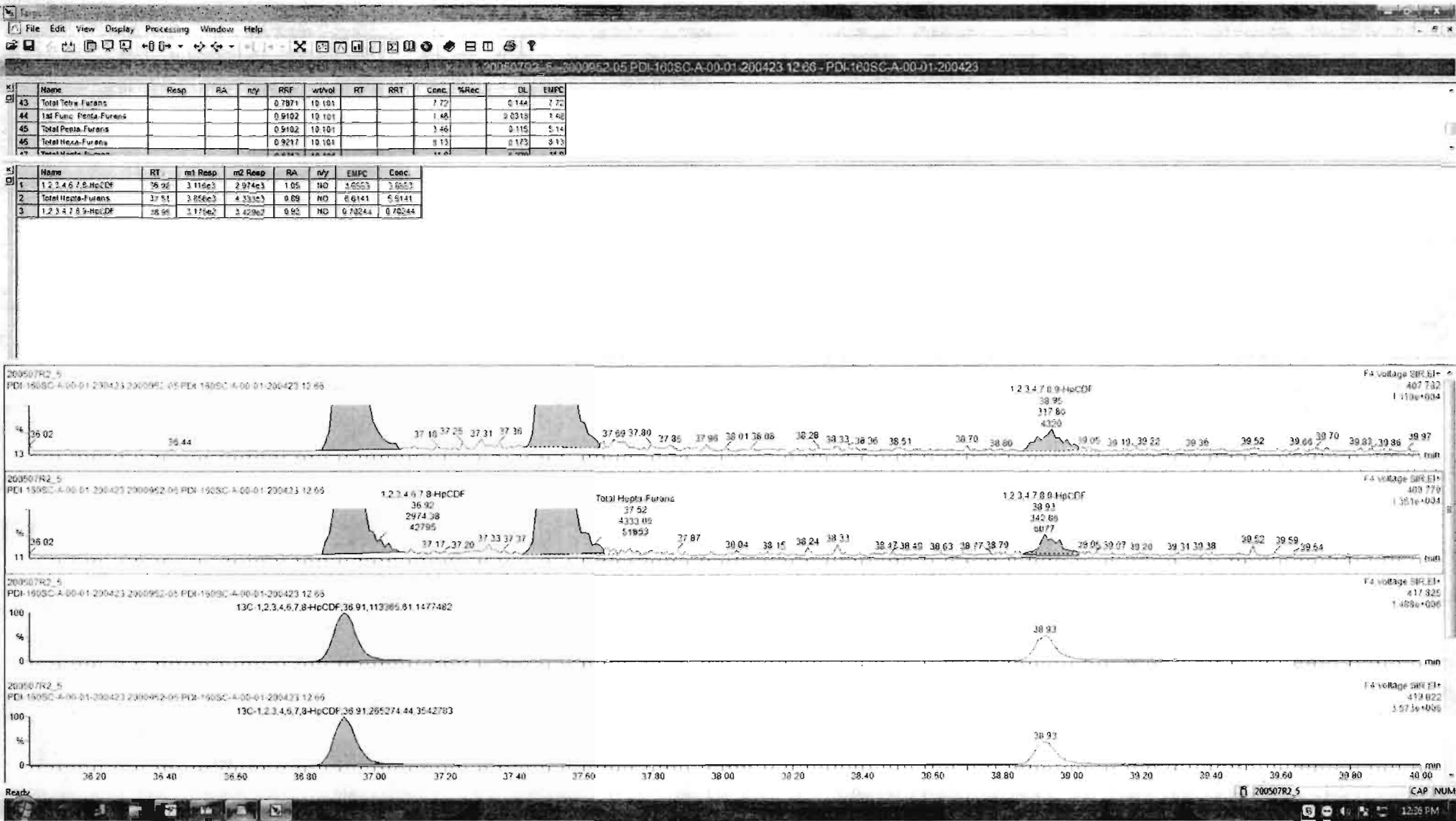
200507R2_5



DPE4

200507R2_5



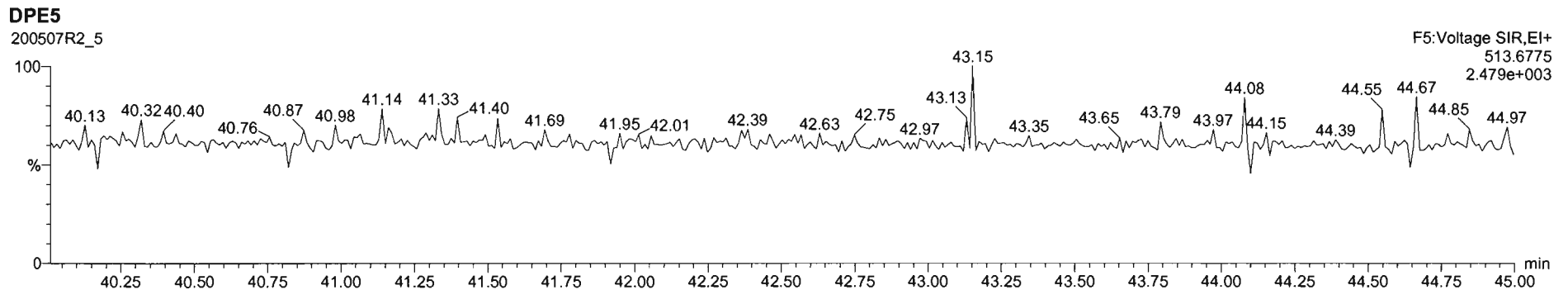
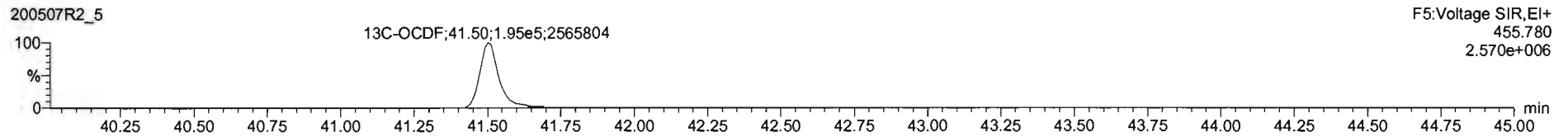
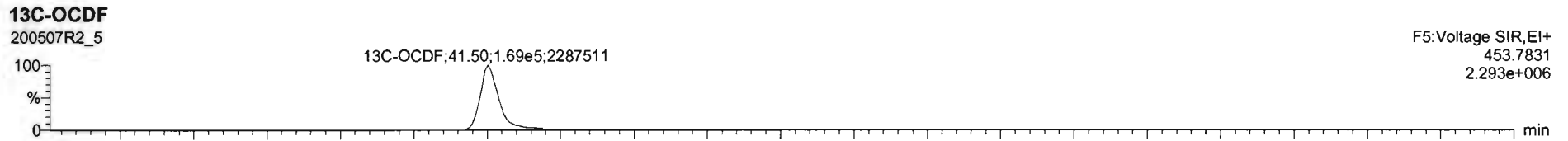
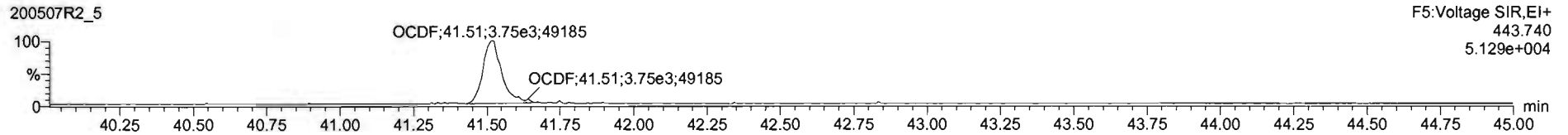
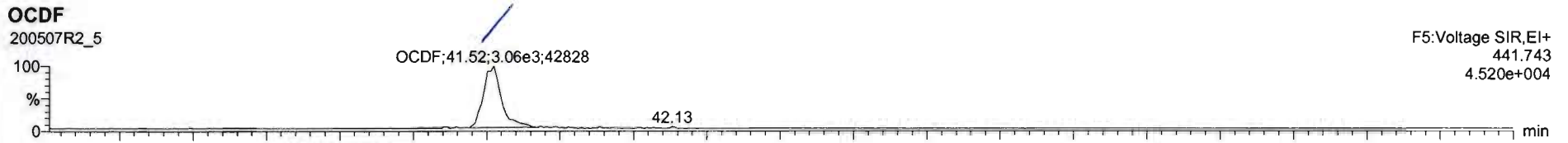


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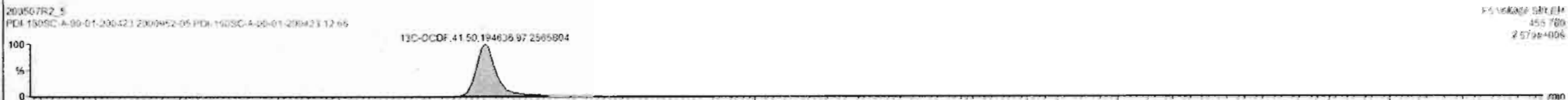
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Name	Resp	RA	ny	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
17 OCDF	6.84e3	0.81	NO	0.6021	10.101	41.52	1.001	9.28		0.204	9.28
18 13C-2,3,7,8-TCDD	8.32e5	0.77	NO	1.1595	10.101	25.98	1.027	180	90.7	0.373	
19 13C-1,2,3,7,8-PeCDD	6.14e5	0.64	NO	0.8472	10.101	31.08	1.228	181	91.6	0.297	
20 13C-1,2,3,4,7,8-HxCDD	4.01e5	1.29	NO	0.7496	10.101	34.45	1.014	160	91.8	0.756	

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1							



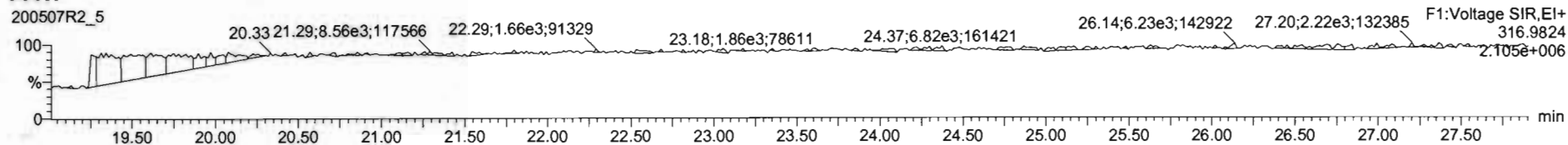
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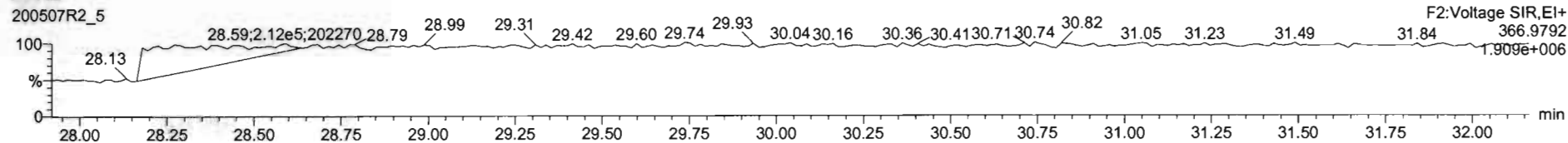
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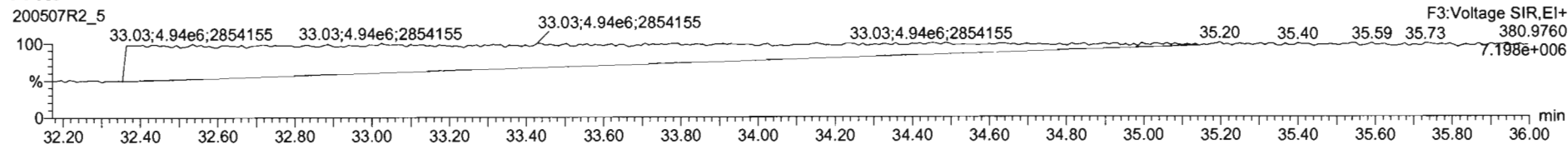
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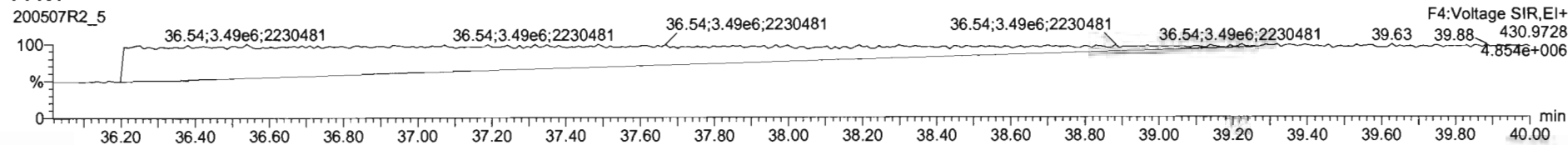
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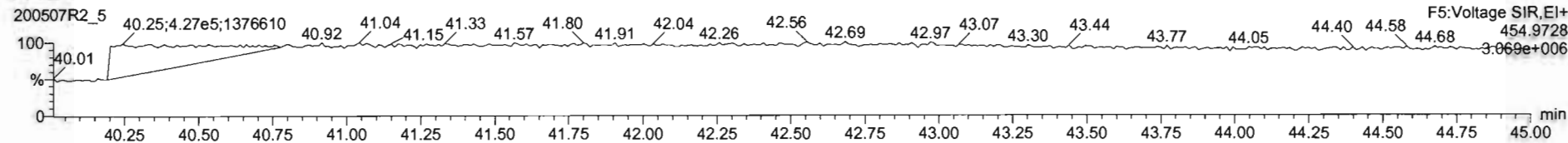
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200507R2\200507R2-6.qld

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GRB 05/08/2020

CT 05/14/2020

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

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.009	26.021		1.001				0.0875	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.009	31.116		1.001				0.0743	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.009	34.483		1.000				0.110	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.009	34.569		1.000				0.106	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.009	34.856		1.000				0.134	
6	6 1,2,3,4,6,7,8-HpCDD	1.64e3	1.00	NO	0.898	10.009	38.362	38.36	1.000	1.000	1.3734		0.256	1.37
7	7 OCDD	6.65e3	0.97	NO	0.933	10.009	41.343	41.35	1.000	1.000	8.1421		0.249	8.14
8	8 2,3,7,8-TCDF			NO	0.787	10.009	25.057		1.001				0.0478	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.009	29.803		1.001				0.0577	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.009	30.805		1.001				0.0553	
11	11 1,2,3,4,7,8-HxCDF	2.34e2	1.67	YES	0.878	10.009	33.611	33.64	1.000	1.001	0.10276		0.0306	0.0861
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.009	33.738		1.000				0.0599	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.009	34.337		1.001				0.0649	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.009	35.187		1.000				0.115	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.009	36.971		1.001				0.0994	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.009	38.936		1.000				0.158	
17	17 OCDF			NO	0.802	10.009	41.524		1.000				0.262	
18	18 13C-2,3,7,8-TCDD	8.07e5	0.78	NO	1.16	10.009	25.969	25.99	1.026	1.027	192.87	96.5	0.350	
19	19 13C-1,2,3,7,8-PeCDD	5.77e5	0.61	NO	0.847	10.009	31.049	31.09	1.227	1.229	188.69	94.4	0.547	
20	20 13C-1,2,3,4,7,8-HxCDD	3.75e5	1.36	NO	0.750	10.009	34.473	34.47	1.014	1.014	191.07	95.6	0.796	
21	21 13C-1,2,3,6,7,8-HxCDD	4.99e5	1.22	NO	0.963	10.009	34.585	34.57	1.017	1.017	197.65	98.9	0.620	
22	22 13C-1,2,3,7,8,9-HxCDD	4.12e5	1.27	NO	0.838	10.009	34.854	34.85	1.025	1.025	187.61	93.9	0.712	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.66e5	1.01	NO	0.641	10.009	38.342	38.35	1.128	1.128	158.49	79.3	0.994	
24	24 13C-OCDD	3.49e5	0.86	NO	0.586	10.009	41.333	41.34	1.216	1.216	227.47	56.9	0.577	
25	25 13C-2,3,7,8-TCDF	1.08e6	0.80	NO	1.03	10.009	25.030	25.03	0.989	0.989	192.04	96.1	0.606	
26	26 13C-1,2,3,7,8-PeCDF	8.90e5	1.59	NO	0.845	10.009	29.741	29.78	1.176	1.177	194.35	97.3	0.944	
27	27 13C-2,3,4,7,8-PeCDF	8.41e5	1.65	NO	0.814	10.009	30.731	30.77	1.215	1.216	190.58	95.4	0.980	
28	28 13C-1,2,3,4,7,8-HxCDF	5.17e5	0.50	NO	1.00	10.009	33.613	33.61	0.989	0.989	196.56	98.4	1.07	
29	29 13C-1,2,3,6,7,8-HxCDF	6.25e5	0.51	NO	1.14	10.009	33.736	33.73	0.992	0.992	209.73	105	0.946	
30	30 13C-2,3,4,6,7,8-HxCDF	5.22e5	0.50	NO	1.02	10.009	34.303	34.30	1.009	1.009	194.93	97.6	1.05	
31	31 13C-1,2,3,7,8,9-HxCDF	3.91e5	0.49	NO	0.845	10.009	35.194	35.19	1.035	1.035	176.88	88.5	1.27	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-6.qld

Last Altered: Friday, May 08, 2020 12:43:23 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 12:44:02 PM Pacific Daylight Time

Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.66e5	0.42	NO	0.771	10.009	36.924	36.93	1.086	1.086	181.30	90.7	1.18	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.76e5	0.42	NO	0.482	10.009	38.933	38.94	1.145	1.145	139.33	69.7	1.88	
34	34 13C-OCDF	3.26e5	0.88	NO	0.669	10.009	41.503	41.52	1.221	1.222	186.06	46.6	0.388	
35	35 37Cl-2,3,7,8-TCDD	3.01e5			1.10	10.009	25.999	26.00	1.028	1.028	75.852	94.9	0.0791	
36	36 13C-1,2,3,4-TCDD	7.21e5	0.80	NO	1.00	10.009	25.350	25.30	1.000	1.000	199.81	100	0.406	
37	37 13C-1,2,3,4-TCDF	1.08e6	0.78	NO	1.00	10.009	23.560	23.52	1.000	1.000	199.81	100	0.627	
38	38 13C-1,2,3,4,6,9-HxCDF	5.23e5	0.52	NO	1.00	10.009	34.000	33.99	1.000	1.000	199.81	100	1.08	
39	39 Total Tetra-Dioxins				0.947	10.009	24.620		0.000				0.0529	
40	40 Total Penta-Dioxins				0.942	10.009	29.960		0.000				0.0278	
41	41 Total Hexa-Dioxins				0.915	10.009	33.635		0.000		0.00000		0.0568	0.280
42	42 Total Hepta-Dioxins				0.898	10.009	37.640		0.000		3.0485		0.256	3.05
43	43 Total Tetra-Furans				0.787	10.009	23.610		0.000				0.0213	
44	44 1st Func. Penta-Furans				0.910	10.009	27.090		0.000				0.0144	
45	45 Total Penta-Furans				0.910	10.009	29.275		0.000				0.0269	
46	46 Total Hexa-Furans				0.922	10.009	33.555		0.000		0.00000		0.0333	0.0861
47	47 Total Hepta-Furans				0.871	10.009	37.835		0.000				0.0670	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-6.qld

Last Altered: Friday, May 08, 2020 12:43:23 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 12:44:02 PM Pacific Daylight Time

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Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	9.418e3	5.103e3	4.258e2	2.454e2	1.74	YES	0.000e0	0.00000	0.28019	0.0568

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	1.283e4	1.069e4	1.084e3	9.212e2	1.18	NO	2.005e3	1.6751	1.6751	0.256
2	1,2,3,4,6,7,8-HpCDD	38.36	9.909e3	8.197e3	8.209e2	8.230e2	1.00	NO	1.644e3	1.3734	1.3734	0.256

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\200507R2\200507R2-6.qld

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Printed: Friday, May 08, 2020 12:44:02 PM Pacific Daylight Time

Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,7,8-HxCDF	33.64	3.542e3	2.160e3	1.463e2	8.747e1	1.67	YES	2.337e2	0.00000	0.086148	0.0306

Hepta-Furans

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

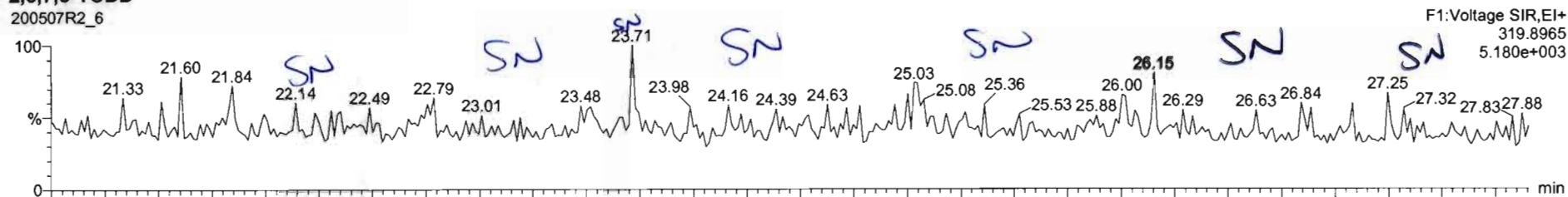
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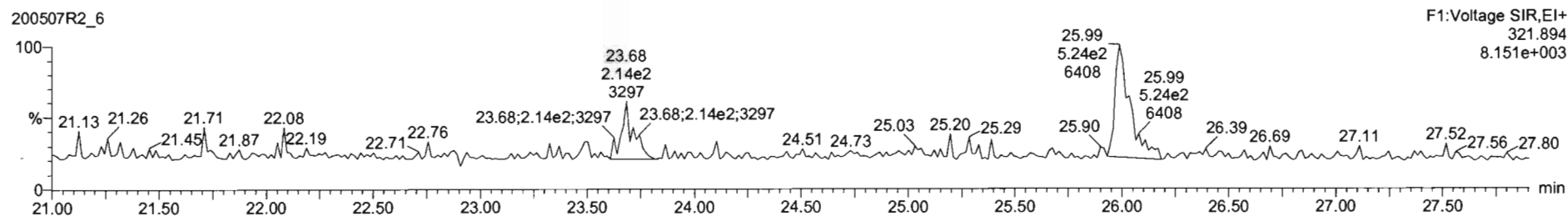
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2,3,7,8-TCDD

200507R2_6

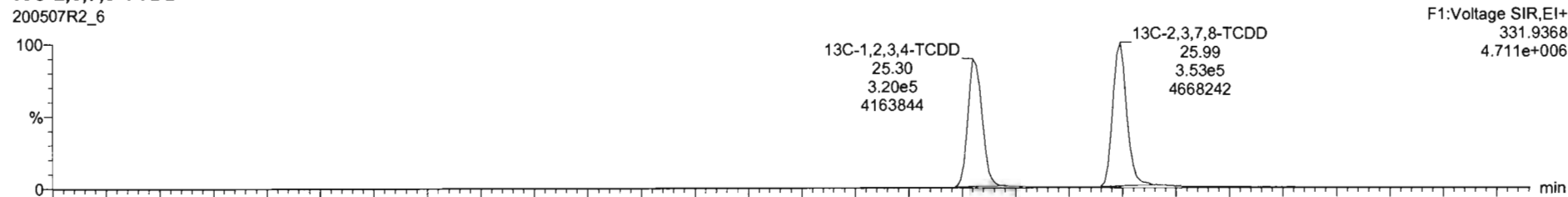


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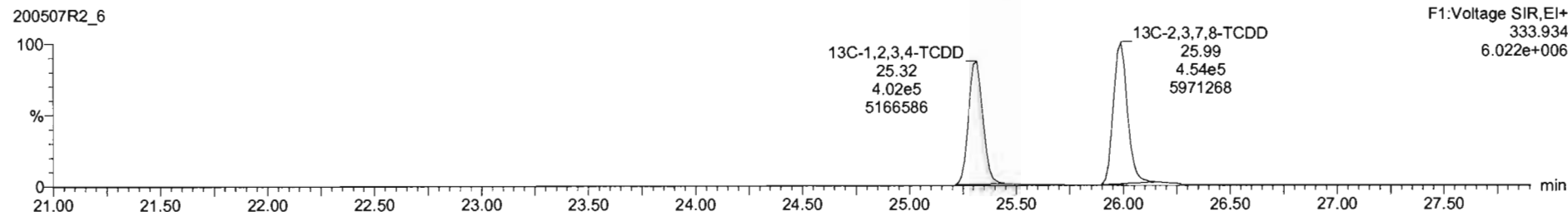


13C-2,3,7,8-TCDD

200507R2_6



200507R2_6



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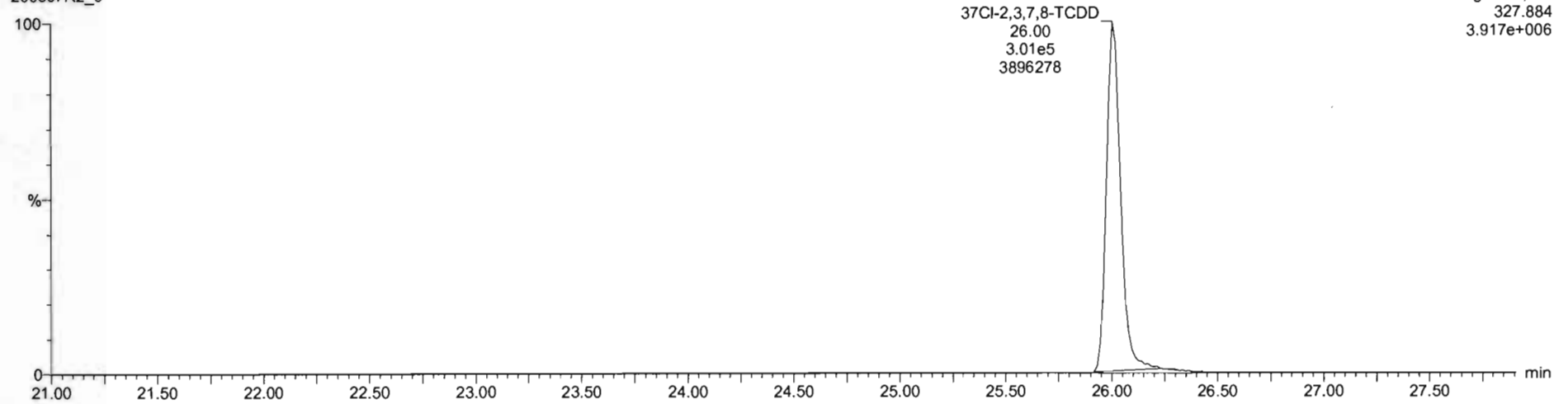
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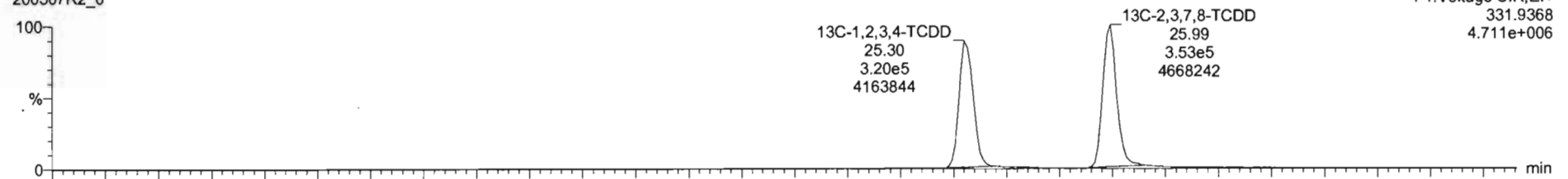
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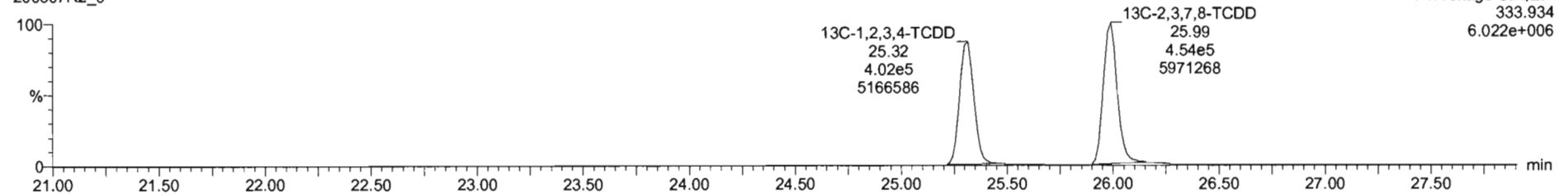


13C-1,2,3,4-TCDD

200507R2_6



200507R2_6



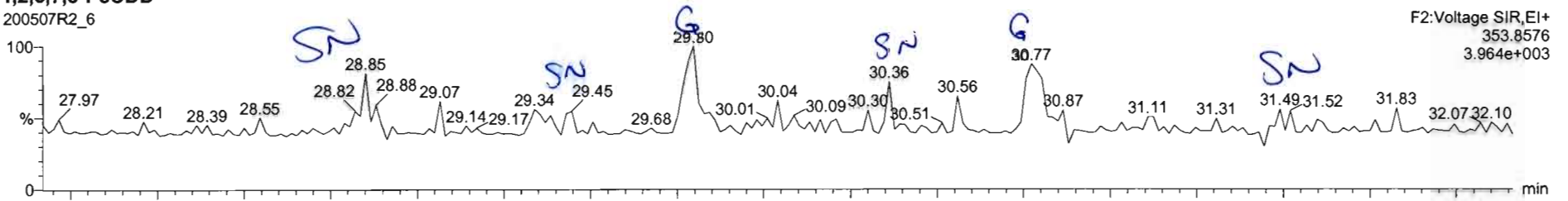
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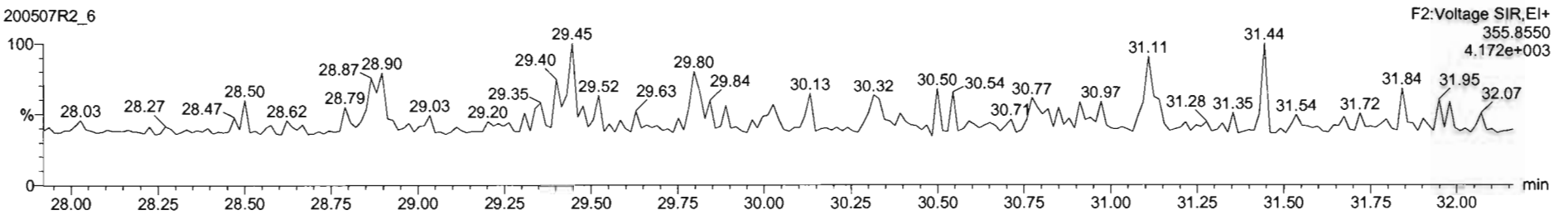
1,2,3,7,8-PeCDD

200507R2_6



F2:Voltage SIR,EI+
353.8576
3.964e+003

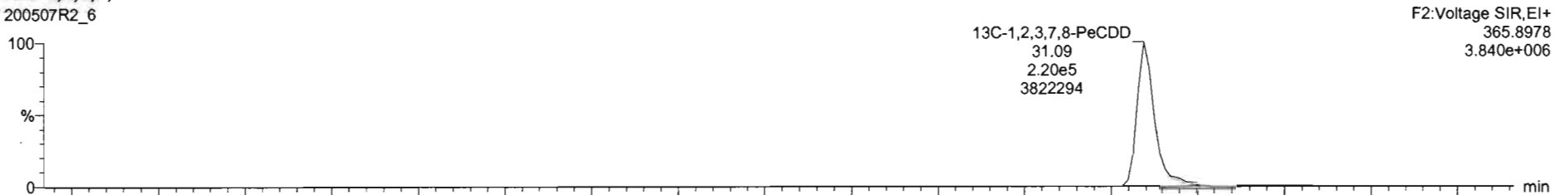
200507R2_6



F2:Voltage SIR,EI+
355.8550
4.172e+003

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

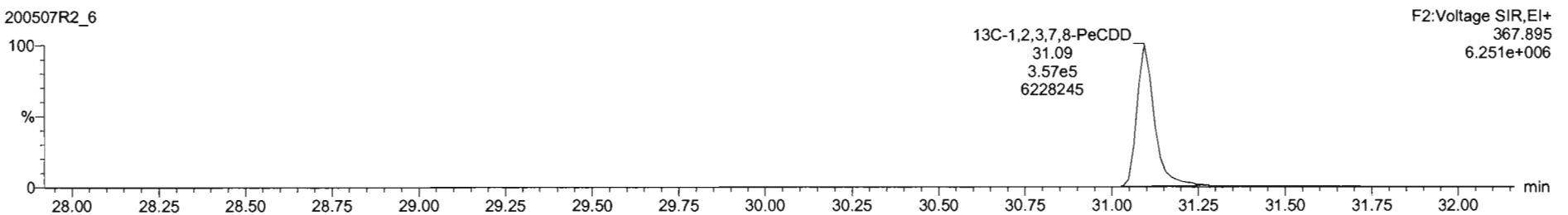
200507R2_6



13C-1,2,3,7,8-PeCDD
31.09
2.20e5
3822294

F2:Voltage SIR,EI+
365.8978
3.840e+006

200507R2_6



13C-1,2,3,7,8-PeCDD
31.09
3.57e5
6228245

F2:Voltage SIR,EI+
367.895
6.251e+006

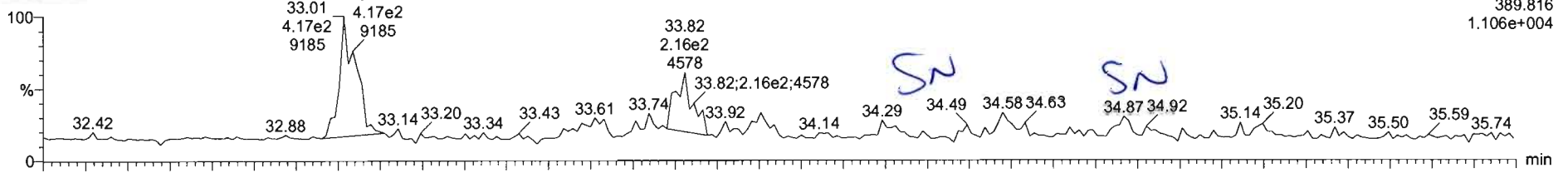
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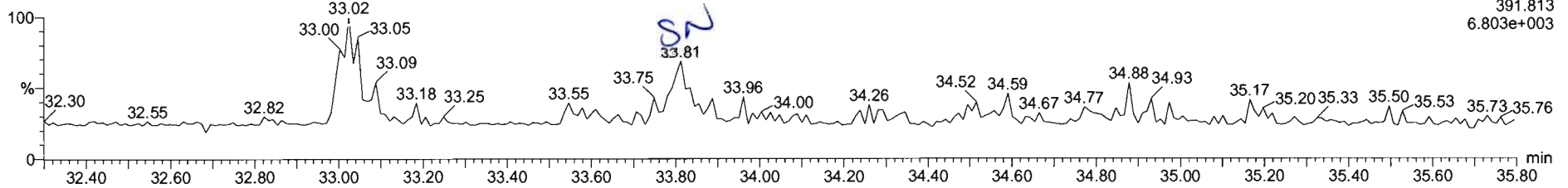
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1,2,3,4,7,8-HxCDD

200507R2_6

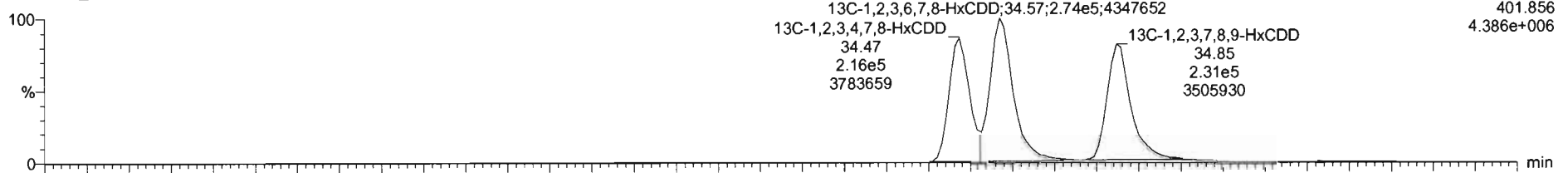


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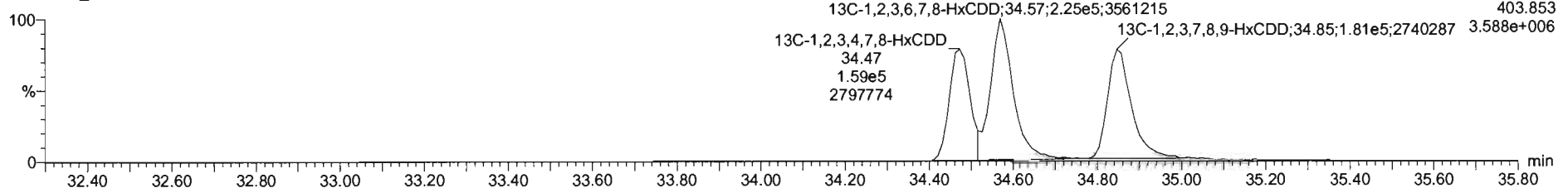


13C-1,2,3,4,7,8-HxCDD

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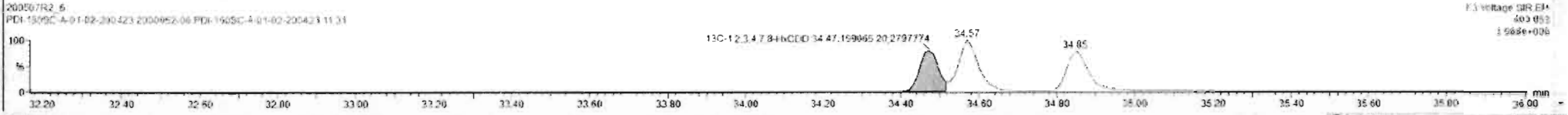
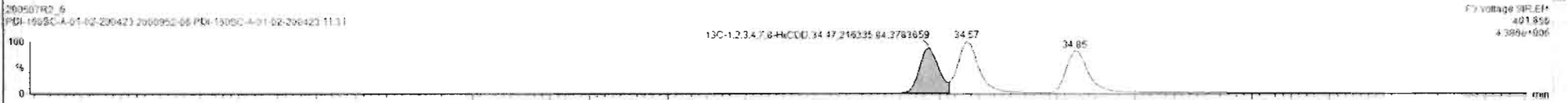
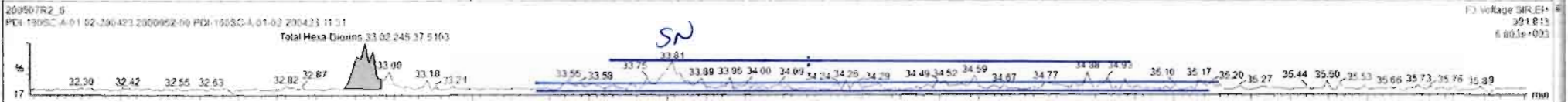
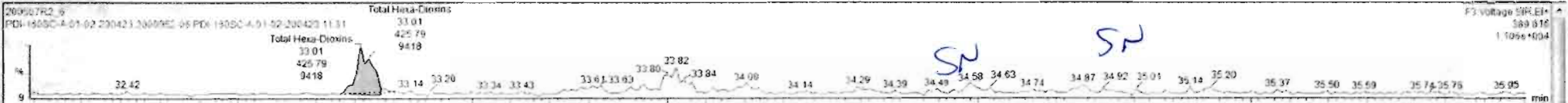


200507R2_6



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.009					0.0529	
40 Total Penta-Dioxins				0.9425	10.009					0.0278	
41 Total Hexa-Dioxins				0.9145	10.009			0.000		0.0588	0.200
42 Total Hepta-Dioxins				0.8975	10.009			1.32		0.256	2.72

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.01	4.250e2	2.454e2	1.74	YES	0.20019	0.00000



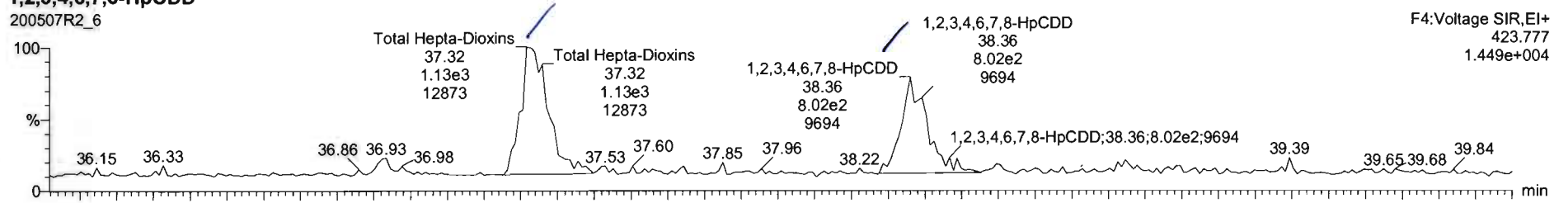
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Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423

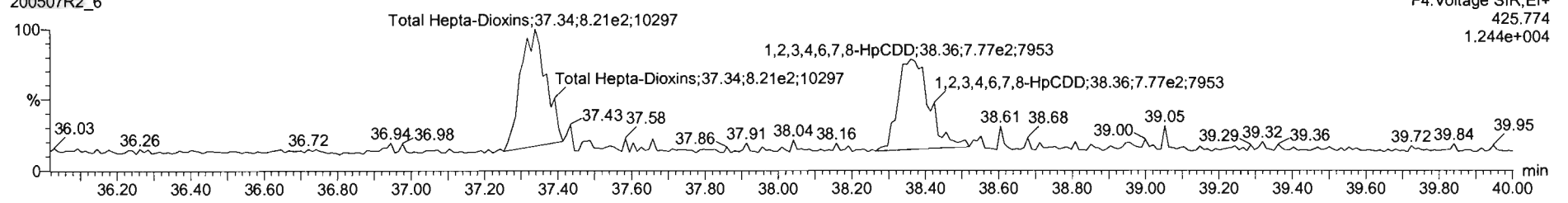
1,2,3,4,6,7,8-HpCDD

200507R2_6



F4: Voltage SIR, EI+
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1.449e+004

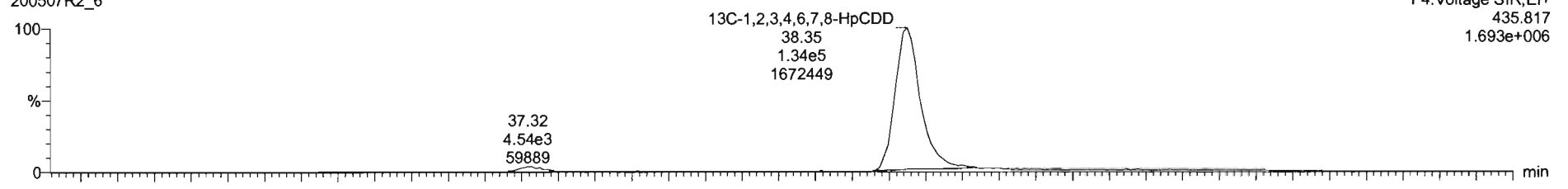
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F4: Voltage SIR, EI+
425.774
1.244e+004

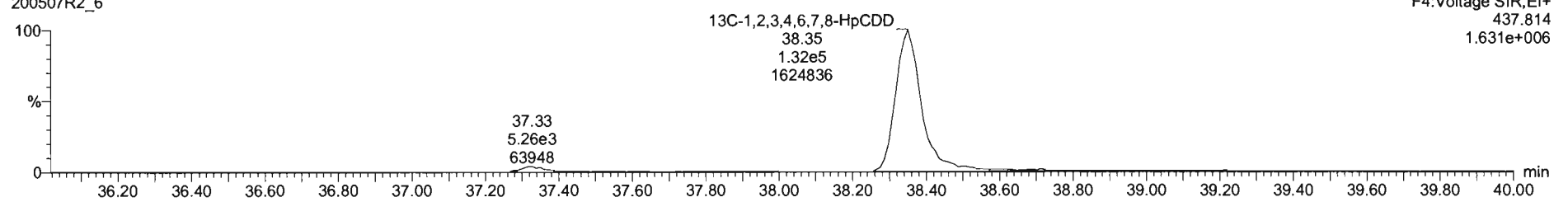
13C-1,2,3,4,6,7,8-HpCDD

200507R2_6



F4: Voltage SIR, EI+
435.817
1.693e+006

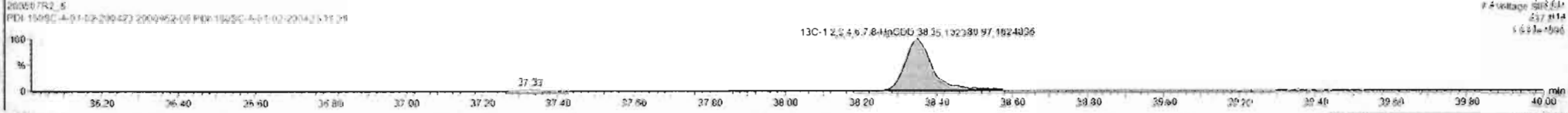
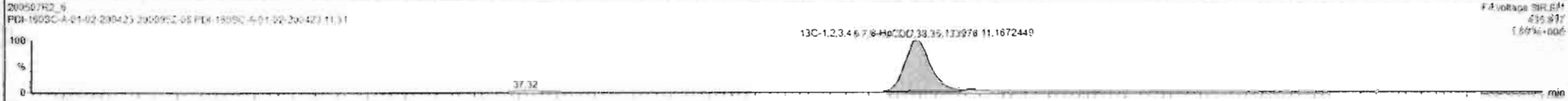
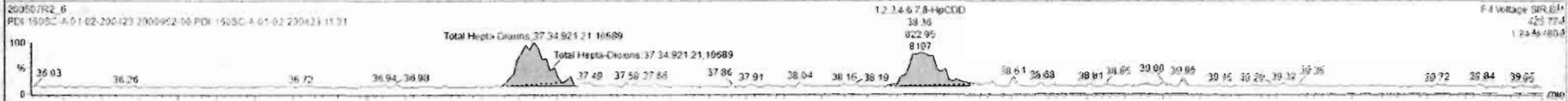
200507R2_6



F4: Voltage SIR, EI+
437.814
1.631e+006

Name	Resp	RA	n1y	RRF	wtdval	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.000					0.0579	
40 Total Penta-Dioxins				0.9425	10.000					0.0278	
41 Total Hexa-Dioxins				0.9145	10.000			0.000		0.0568	0.280
42 Total Hepta-Dioxins				0.0979	10.000			1.05		0.258	3.85

Name	RT	m1 Resp	m2 Resp	RA	n1y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.36	8.205e2	8.220e2	1.00	NO	1.3734	1.3734
2 Total Hepta-Dioxins	37.32	1.084e3	9.212e2	1.18	NO	1.6751	1.6751

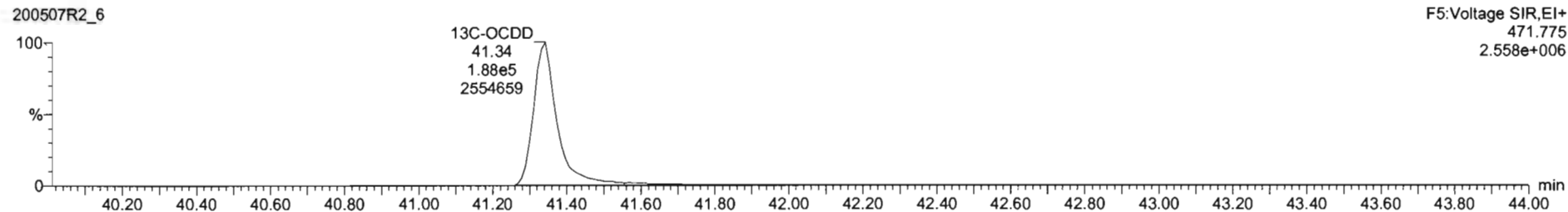
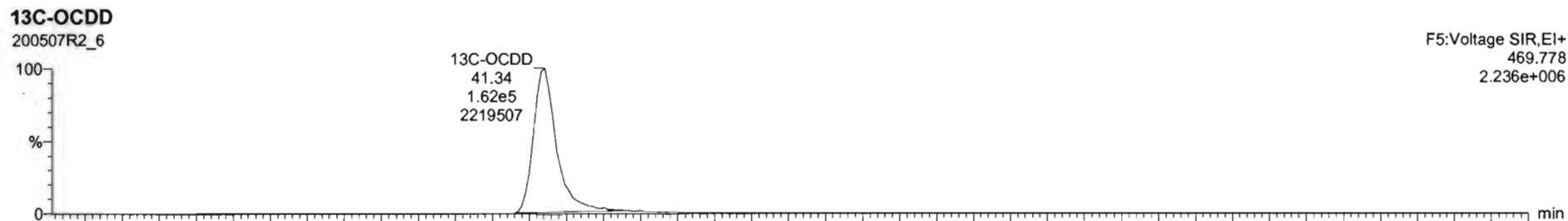
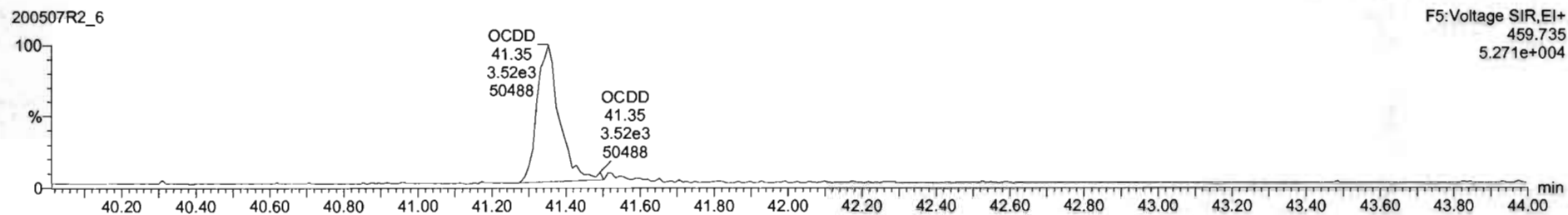
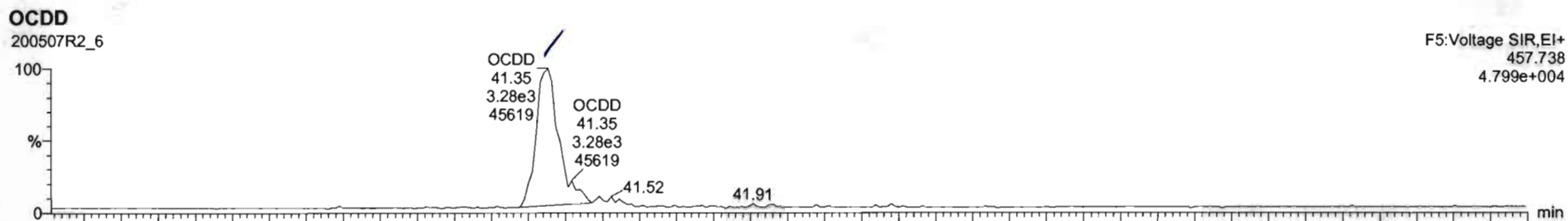


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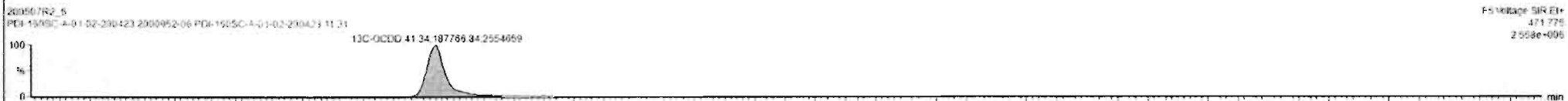
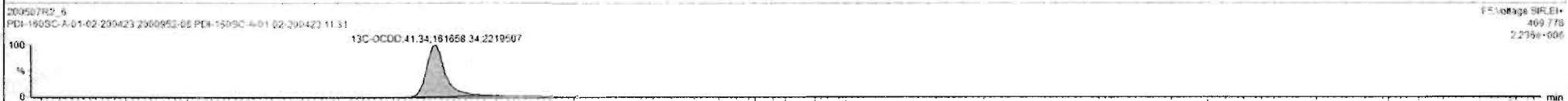
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Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423



Name	Resp	RA	n/y	RRF	w/wol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	6.65e3	0.97	NO	0.9335	10.000	41.35	1.000	6.14		0.249	0.14
8 2,3,7,8-TCDF			NO	0.7871	10.000					0.0478	
9 1,2,3,7,8-PeCDF			NO	0.9102	10.000					0.0577	
10 2,3,4,7,8-PeCDF			NO	0.9684	10.000					0.0553	

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



Dataset: Untitled

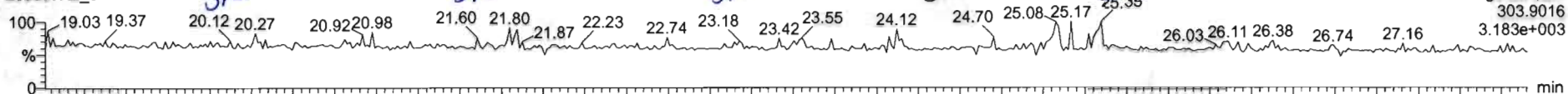
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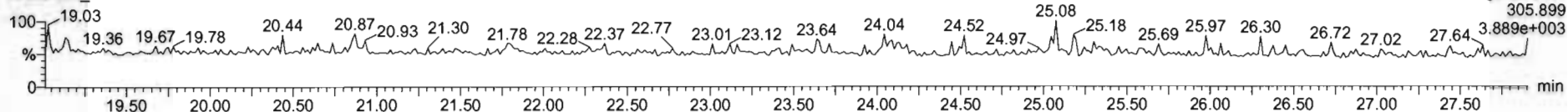
Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423

2,3,7,8-TCDF

200507R2_6

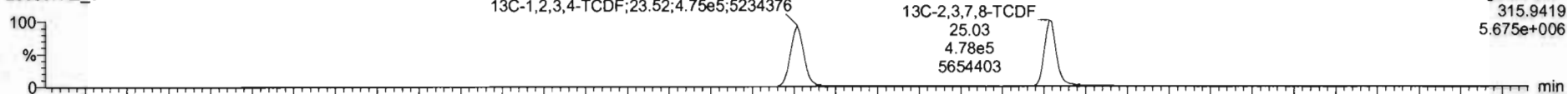


200507R2_6

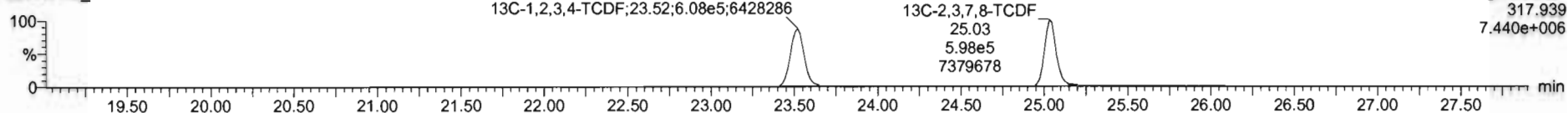


13C-2,3,7,8-TCDF

200507R2_6

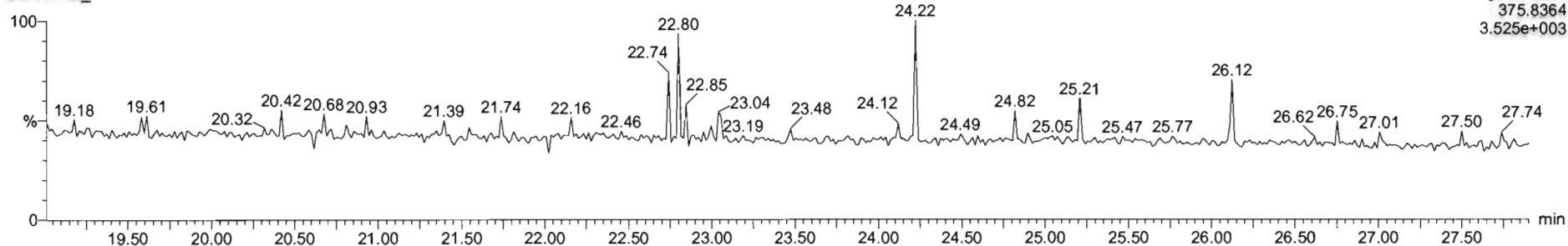


200507R2_6



DPE1

200507R2_6



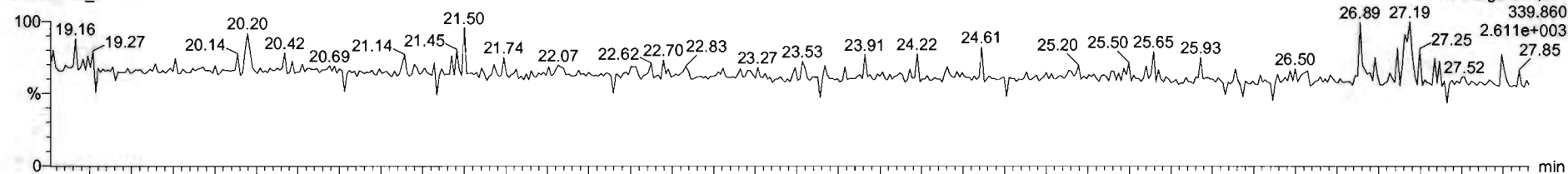
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

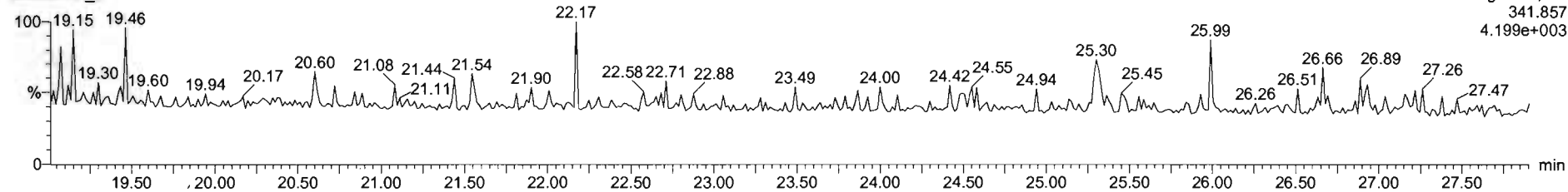
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1st Func. Penta-Furans

200507R2_6

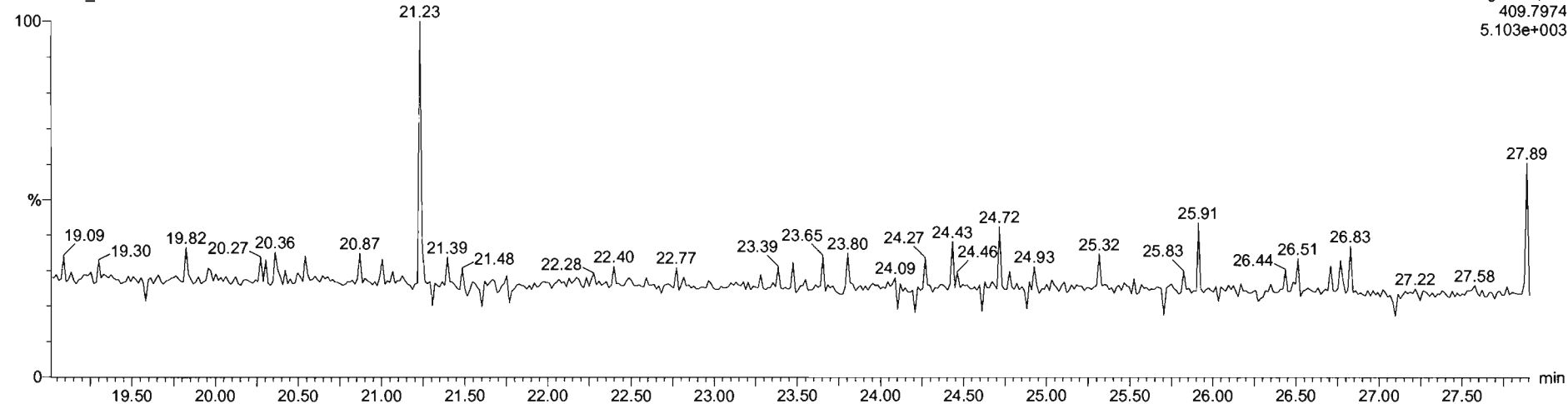


200507R2_6



DPE6

200507R2_6

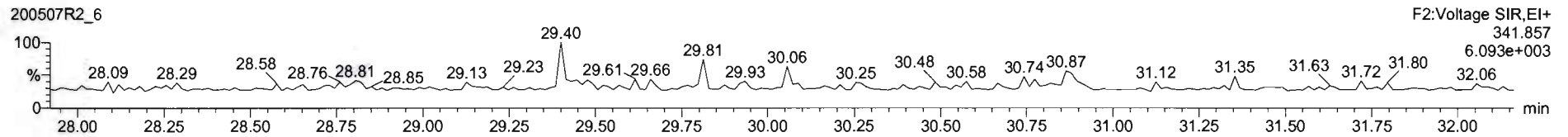
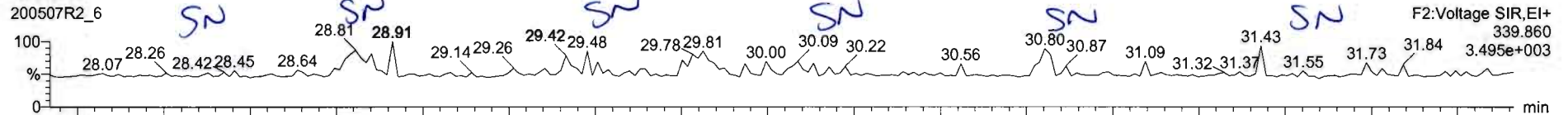


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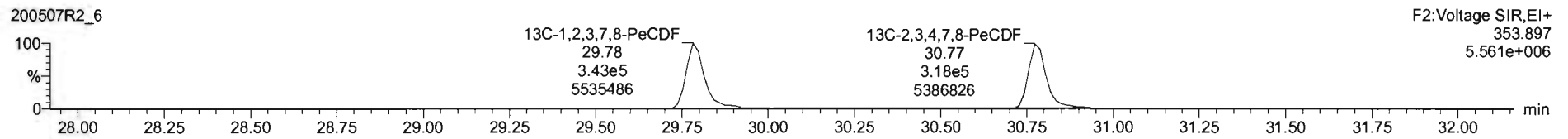
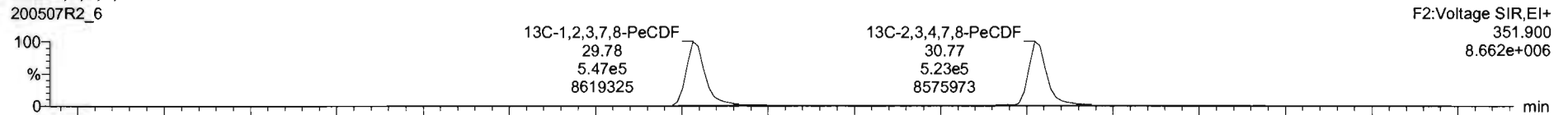
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423

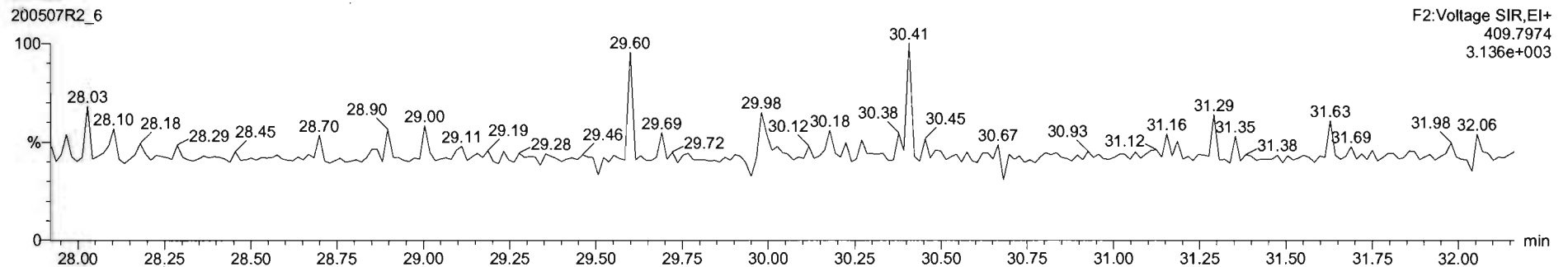
1,2,3,7,8-PeCDF



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



DPE2



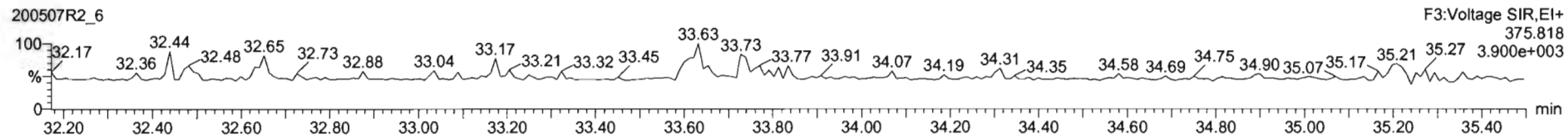
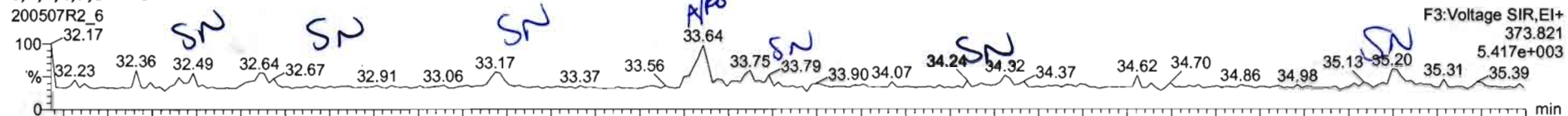
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Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

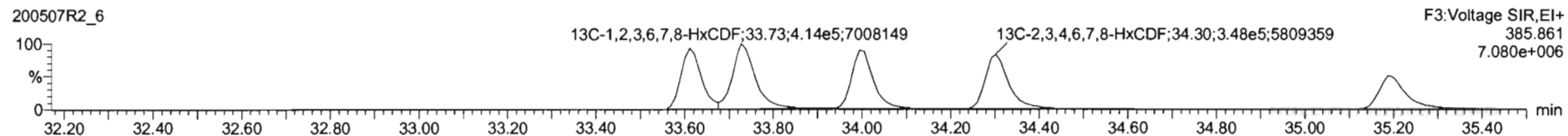
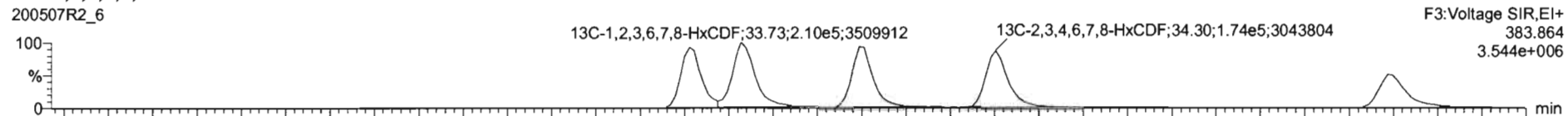
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423

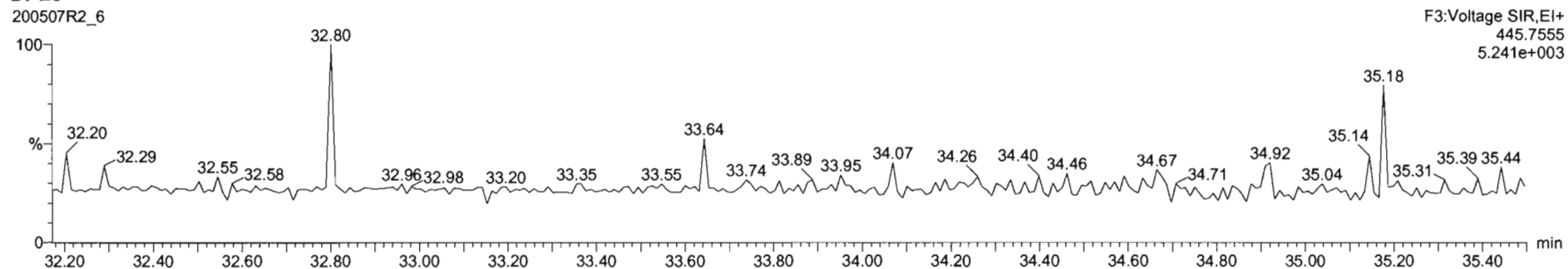
1,2,3,4,7,8-HxCDF



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

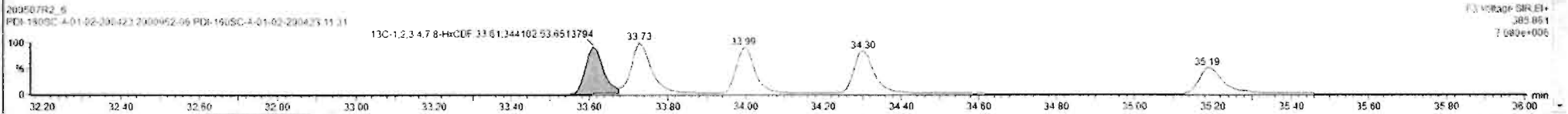
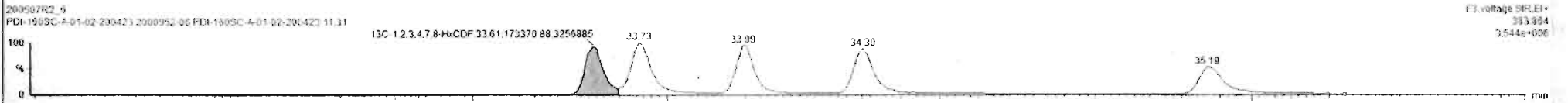
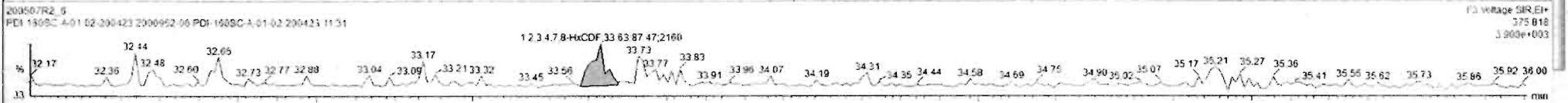
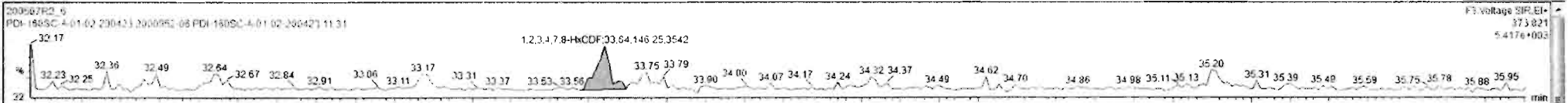


DPE3



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9102	10.000					0.0144	
45 Total Penta-Furans				0.9102	10.000					0.0269	
46 Total Hexa-Furans				0.9217	10.000			0.000		0.0333	0.0001
47 Total Hepta-Furans				0.8712	10.000					0.0670	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,7,8-HxCDF	33.64	1.462e2	8.747e1	1.67	YES	0.086148	0.00000



Dataset: Untitled

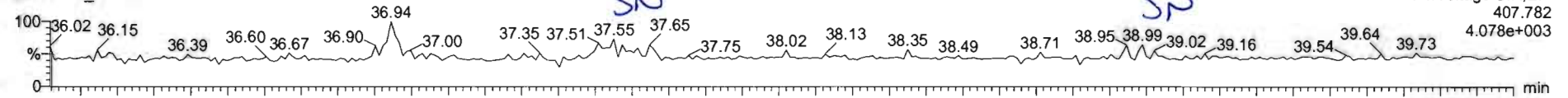
Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

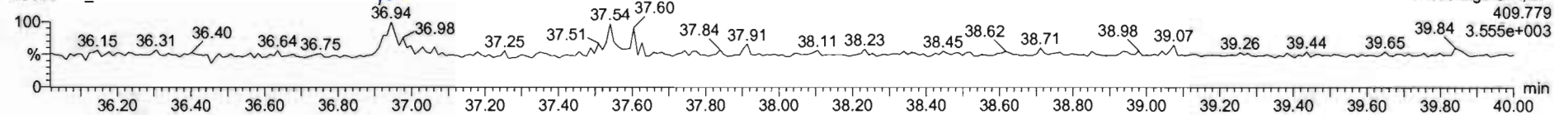
Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423

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

200507R2_6

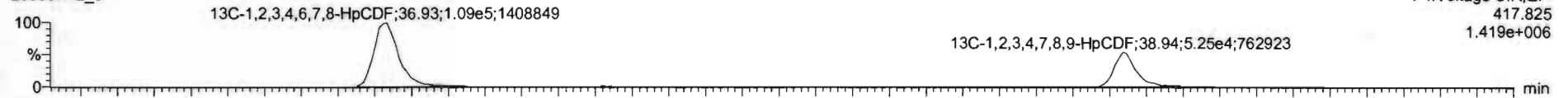


200507R2_6

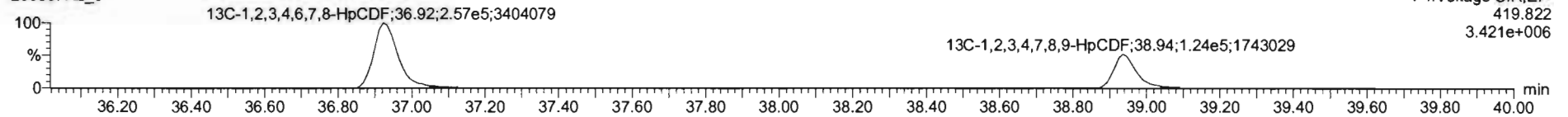


13C-1,2,3,4,6,7,8-HpCDF

200507R2_6

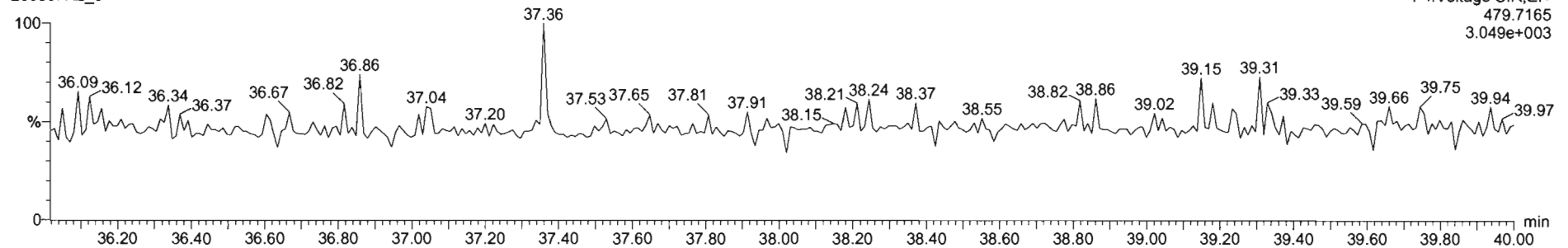


200507R2_6



DPE4

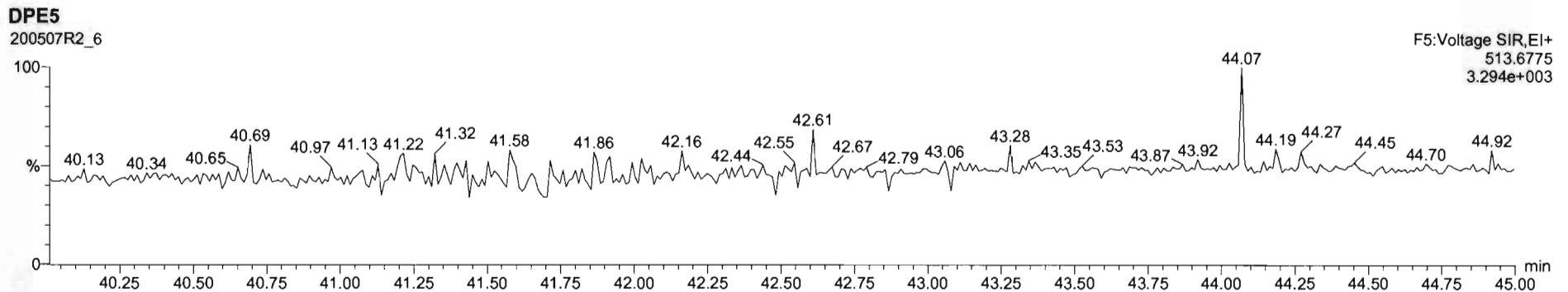
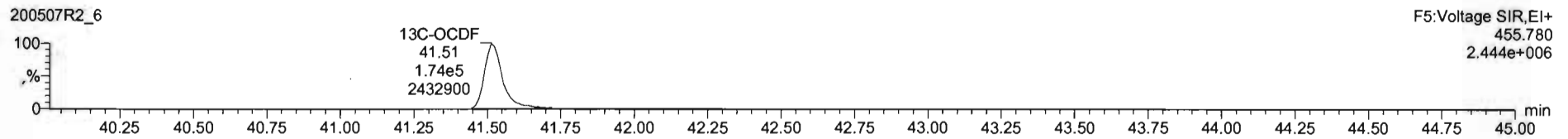
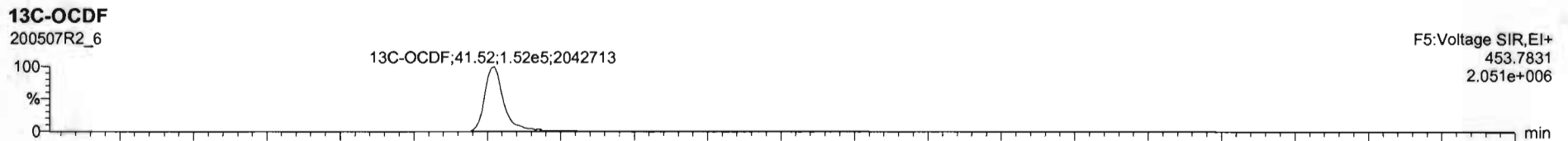
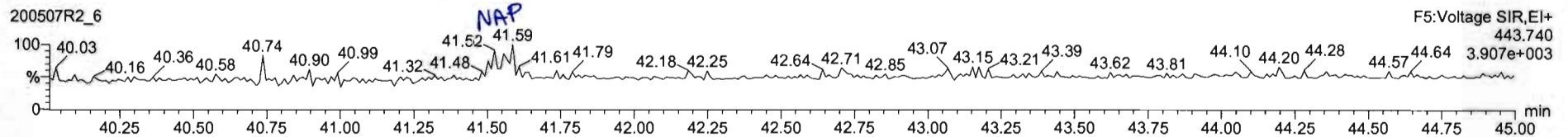
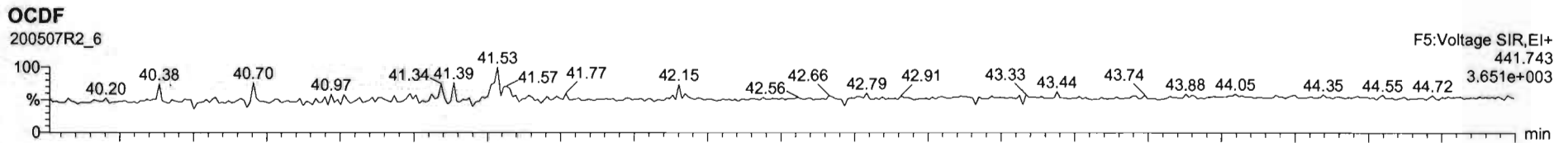
200507R2_6



Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423

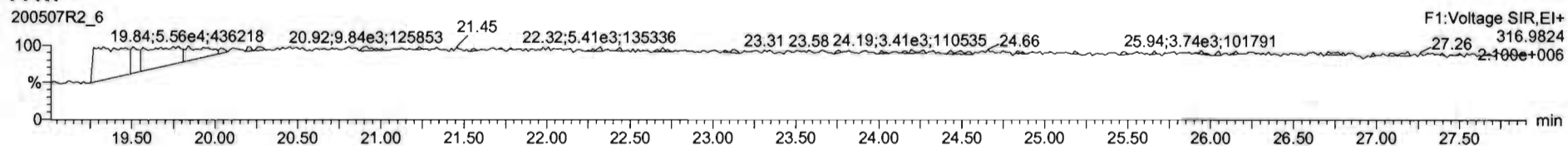


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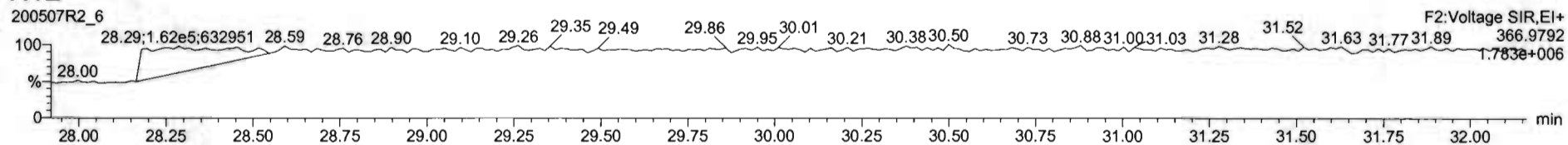
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_6, Date: 07-May-2020, Time: 18:24:10, ID: 2000952-06 PDI-160SC-A-01-02-200423 11.31, Description: PDI-160SC-A-01-02-200423

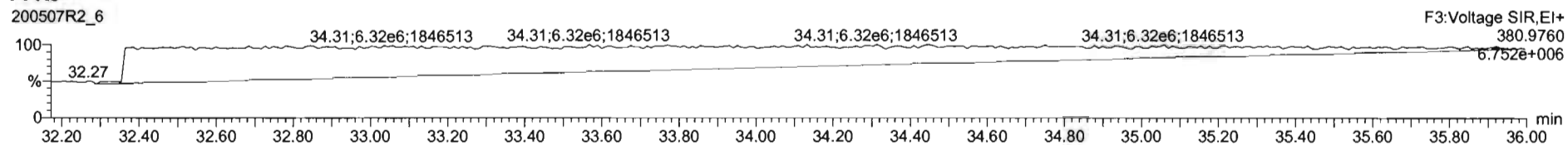
PFK1



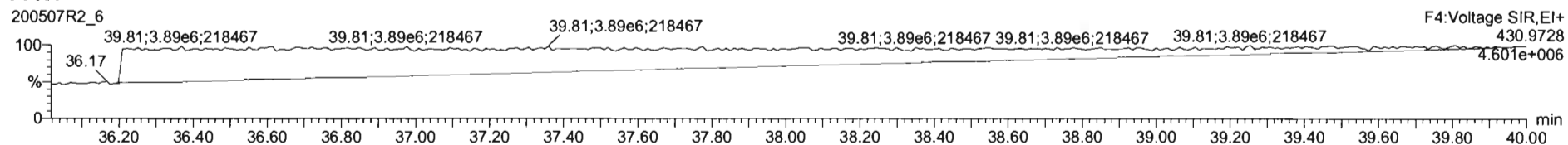
PFK2



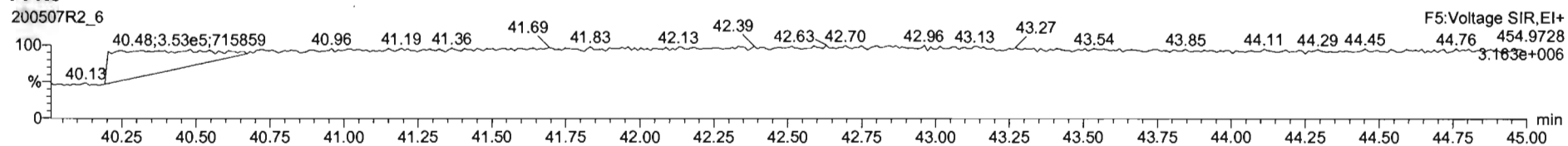
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200507R2\200507R2-7.qld

Last Altered: Friday, May 08, 2020 1:31:31 PM Pacific Daylight Time
Printed: Friday, May 08, 2020 1:32:59 PM Pacific Daylight Time

GRB 05/08/2020

CT 05/14/2020

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

Name: 200507R2_7, Date: 07-May-2020, Time: 19:10:22, ID: 2000952-07 PDI-160SC-A-02-03-200423 12.43, Description: PDI-160SC-A-02-03-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.004	26.006		1.001				0.0970	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.004	31.101		1.001				0.0782	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.004	34.462		1.000				0.0767	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.004	34.558		1.000				0.0753	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.004	34.845		1.000				0.0933	
6	6 1,2,3,4,6,7,8-HpCDD	4.13e2	1.00	NO	0.898	10.004	38.340	38.34	1.000	1.000	0.36870		0.164	0.369
7	7 OCDD	3.12e3	0.89	NO	0.933	10.004	41.321	41.33	1.000	1.000	3.9078		0.207	3.91
8	8 2,3,7,8-TCDF			NO	0.787	10.004	25.042		1.001				0.0452	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.004	29.788		1.001				0.0507	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.004	30.789		1.001				0.0462	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.004	33.600		1.000				0.0463	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.004	33.727		1.000				0.0453	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.004	34.326		1.001				0.0508	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.004	35.176		1.000				0.0915	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.004	36.949		1.001				0.0501	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.004	38.925		1.000				0.0876	
17	17 OCDF			NO	0.802	10.004	41.502		1.000				0.155	
18	18 13C-2,3,7,8-TCDD	7.38e5	0.77	NO	1.16	10.004	25.954	25.98	1.026	1.027	181.02	90.5	0.356	
19	19 13C-1,2,3,7,8-PeCDD	5.29e5	0.63	NO	0.847	10.004	31.031	31.08	1.227	1.229	177.48	88.8	0.491	
20	20 13C-1,2,3,4,7,8-HxCDD	3.40e5	1.26	NO	0.750	10.004	34.462	34.45	1.014	1.014	182.13	91.1	0.946	
21	21 13C-1,2,3,6,7,8-HxCDD	4.49e5	1.29	NO	0.963	10.004	34.574	34.56	1.017	1.017	187.27	93.7	0.737	
22	22 13C-1,2,3,7,8,9-HxCDD	3.85e5	1.23	NO	0.838	10.004	34.843	34.83	1.025	1.025	184.40	92.2	0.847	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.49e5	1.03	NO	0.641	10.004	38.329	38.33	1.128	1.128	156.04	78.1	0.987	
24	24 13C-OCDD	3.42e5	0.87	NO	0.586	10.004	41.320	41.32	1.216	1.216	233.75	58.5	0.660	
25	25 13C-2,3,7,8-TCDF	9.56e5	0.75	NO	1.03	10.004	25.015	25.02	0.989	0.989	175.75	87.9	0.559	
26	26 13C-1,2,3,7,8-PeCDF	8.01e5	1.60	NO	0.845	10.004	29.724	29.77	1.176	1.177	180.41	90.2	1.04	
27	27 13C-2,3,4,7,8-PeCDF	7.71e5	1.59	NO	0.814	10.004	30.712	30.76	1.215	1.216	180.24	90.2	1.08	
28	28 13C-1,2,3,4,7,8-HxCDF	4.79e5	0.51	NO	1.00	10.004	33.602	33.60	0.989	0.989	191.26	95.7	0.892	
29	29 13C-1,2,3,6,7,8-HxCDF	5.67e5	0.51	NO	1.14	10.004	33.725	33.72	0.992	0.992	200.07	100	0.788	
30	30 13C-2,3,4,6,7,8-HxCDF	4.87e5	0.51	NO	1.02	10.004	34.292	34.29	1.009	1.009	191.11	95.6	0.876	
31	31 13C-1,2,3,7,8,9-HxCDF	3.46e5	0.49	NO	0.845	10.004	35.183	35.18	1.035	1.035	164.28	82.2	1.06	

Dataset: U:\WG12.PRO\Results\200507R2\200507R2-7.qld

Last Altered: Friday, May 08, 2020 1:31:31 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 1:32:59 PM Pacific Daylight Time

Name: 200507R2_7, Date: 07-May-2020, Time: 19:10:22, ID: 2000952-07 PDI-160SC-A-02-03-200423 12.43, Description: PDI-160SC-A-02-03-200423

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.34e5	0.42	NO	0.771	10.004	36.912	36.91	1.086	1.086	173.98	87.0	1.01	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.61e5	0.45	NO	0.482	10.004	38.921	38.92	1.145	1.145	133.59	66.8	1.61	
34	34 13C-OCDF	3.18e5	0.88	NO	0.669	10.004	41.490	41.50	1.221	1.221	191.05	47.8	0.459	
35	35 37Cl-2,3,7,8-TCDD	3.08e5			1.10	10.004	25.984	25.99	1.028	1.028	79.775	99.8	0.0775	
36	36 13C-1,2,3,4-TCDD	7.03e5	0.79	NO	1.00	10.004	25.350	25.29	1.000	1.000	199.92	100	0.413	
37	37 13C-1,2,3,4-TCDF	1.05e6	0.81	NO	1.00	10.004	23.560	23.50	1.000	1.000	199.92	100	0.579	
38	38 13C-1,2,3,4,6,9-HxCDF	4.98e5	0.51	NO	1.00	10.004	34.000	33.98	1.000	1.000	199.92	100	0.896	
39	39 Total Tetra-Dioxins				0.947	10.004	24.620		0.000				0.0592	
40	40 Total Penta-Dioxins				0.942	10.004	29.960		0.000				0.0347	
41	41 Total Hexa-Dioxins				0.915	10.004	33.635		0.000		0.32531		0.0853	0.325
42	42 Total Hepta-Dioxins				0.898	10.004	37.640		0.000		0.36870		0.164	0.984
43	43 Total Tetra-Furans				0.787	10.004	23.610		0.000				0.0166	
44	44 1st Func. Penta-Furans				0.910	10.004	27.090		0.000				0.0118	
45	45 Total Penta-Furans				0.910	10.004	29.275		0.000				0.0202	
46	46 Total Hexa-Furans				0.922	10.004	33.555		0.000				0.0294	
47	47 Total Hepta-Furans				0.871	10.004	37.835		0.000				0.0336	

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Dataset: U:\VG12.PRO\Results\200507R2\200507R2-7.qld

Last Altered: Friday, May 08, 2020 1:31:31 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 1:32:59 PM Pacific Daylight Time

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

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

Name: 200507R2_7, Date: 07-May-2020, Time: 19:10:22, ID: 2000952-07 PDI-160SC-A-02-03-200423 12.43, Description: PDI-160SC-A-02-03-200423

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	6.200e3	5.416e3	3.401e2	2.425e2	1.40	NO	5.826e2	0.32531	0.32531	0.0853

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	4.172e3	7.623e3	3.514e2	4.596e2	0.76	YES	0.000e0	0.00000	0.61538	0.164
2	1,2,3,4,6,7,8-HpCDD	38.34	4.839e3	2.855e3	2.069e2	2.061e2	1.00	NO	4.130e2	0.36870	0.36870	0.164

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\200507R2\200507R2-7.qld

Last Altered: Friday, May 08, 2020 1:31:31 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 1:32:59 PM Pacific Daylight Time

Name: 200507R2_7, Date: 07-May-2020, Time: 19:10:22, ID: 2000952-07 PDI-160SC-A-02-03-200423 12.43, Description: PDI-160SC-A-02-03-200423

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

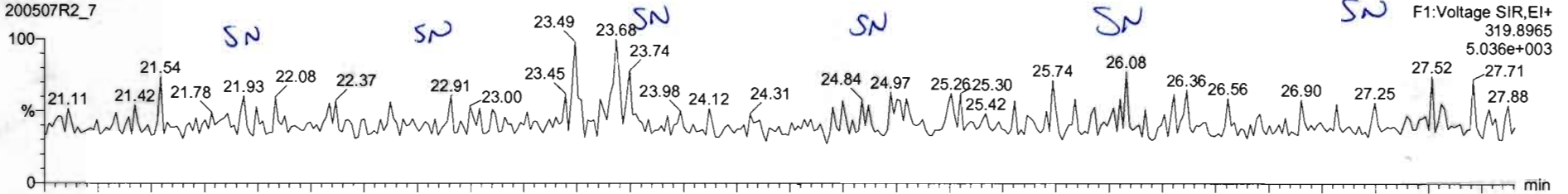
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

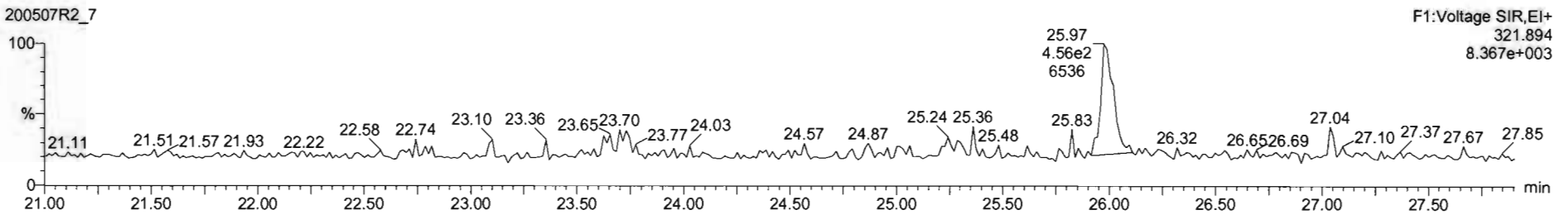
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2,3,7,8-TCDD

200507R2_7

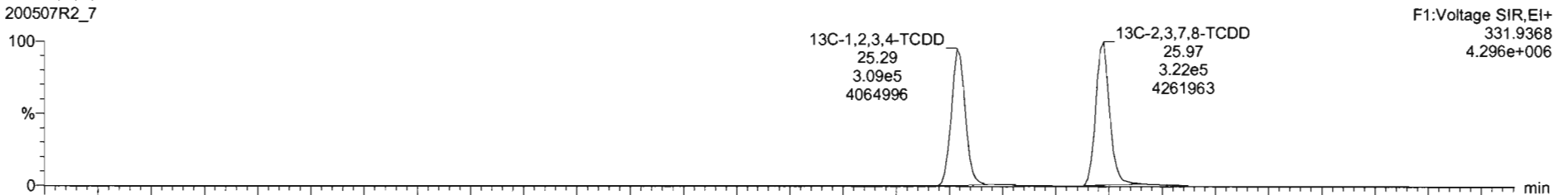


200507R2_7

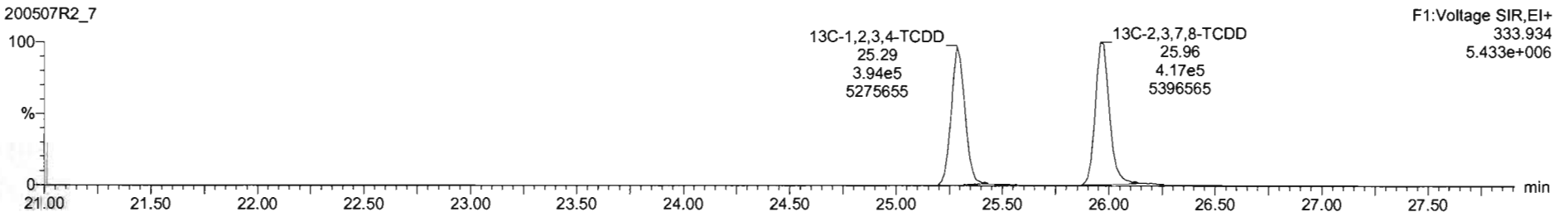


13C-2,3,7,8-TCDD

200507R2_7



200507R2_7



Dataset: Untitled

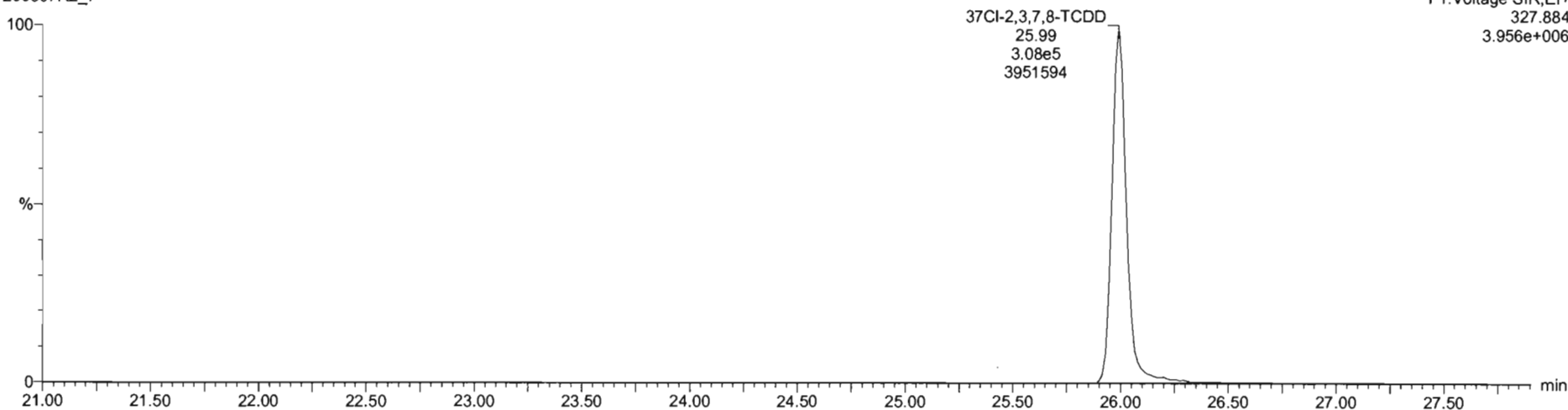
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Name: 200507R2_7, Date: 07-May-2020, Time: 19:10:22, ID: 2000952-07 PDI-160SC-A-02-03-200423 12.43, Description: PDI-160SC-A-02-03-200423

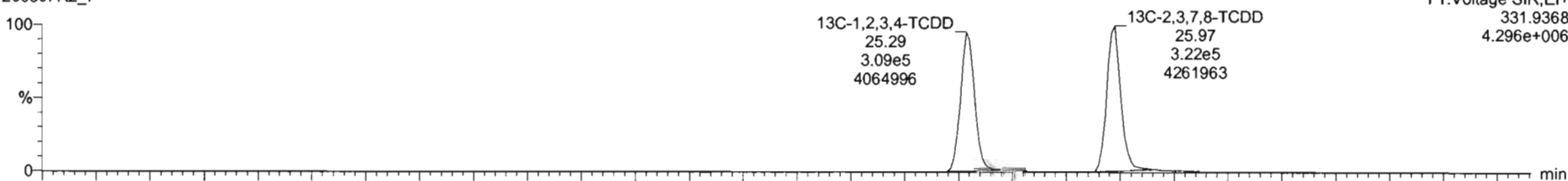
37Cl-2,3,7,8-TCDD

200507R2_7

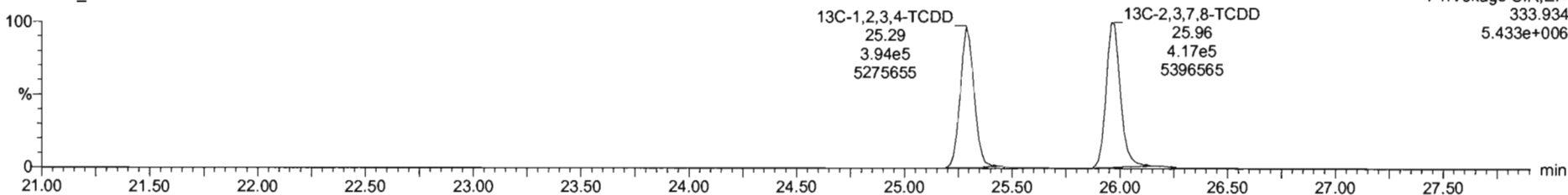


13C-1,2,3,4-TCDD

200507R2_7



200507R2_7



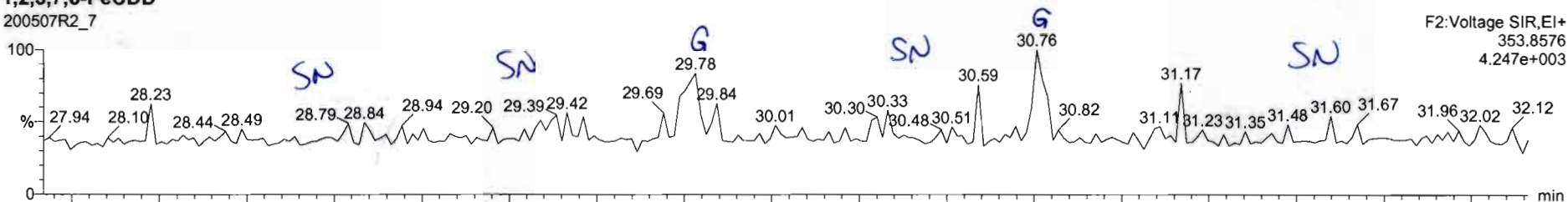
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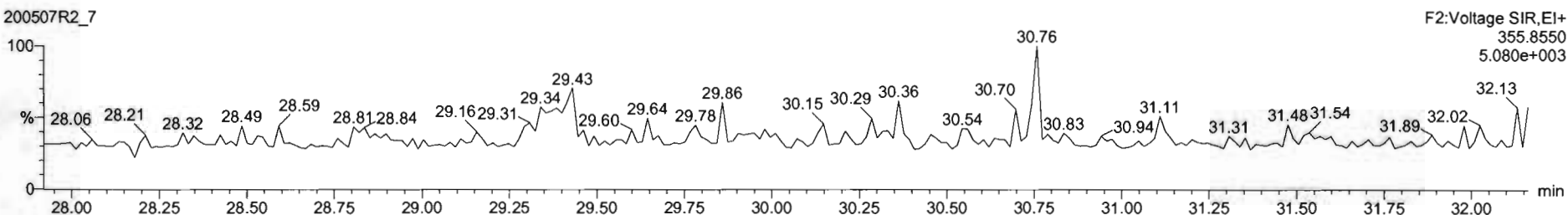
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1,2,3,7,8-PeCDD

200507R2_7

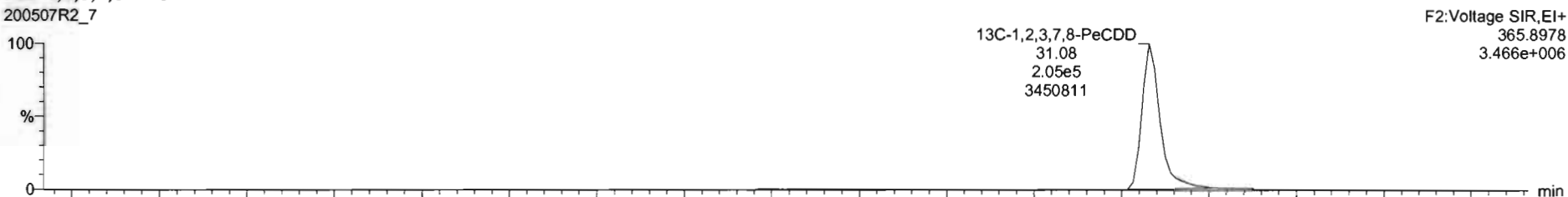


200507R2_7

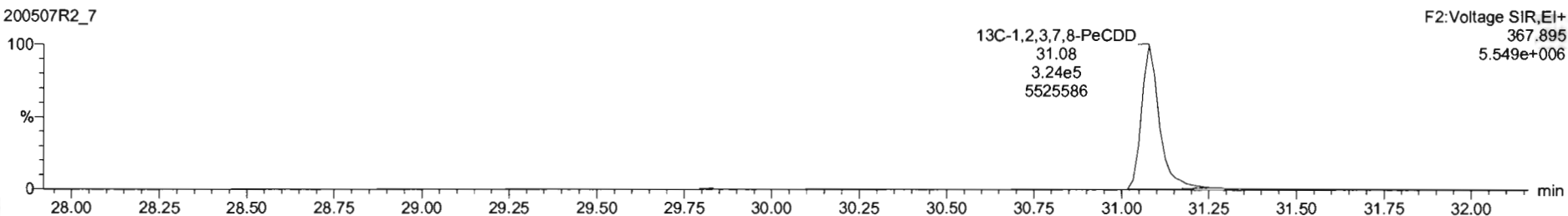


13C-1,2,3,7,8-PeCDD

200507R2_7



200507R2_7



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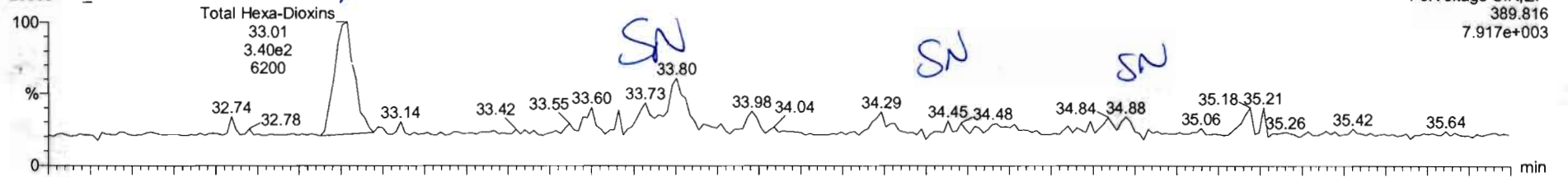
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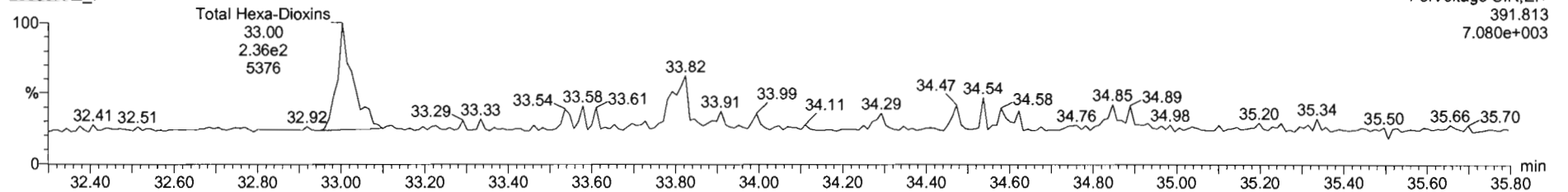
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1,2,3,4,7,8-HxCDD

200507R2_7

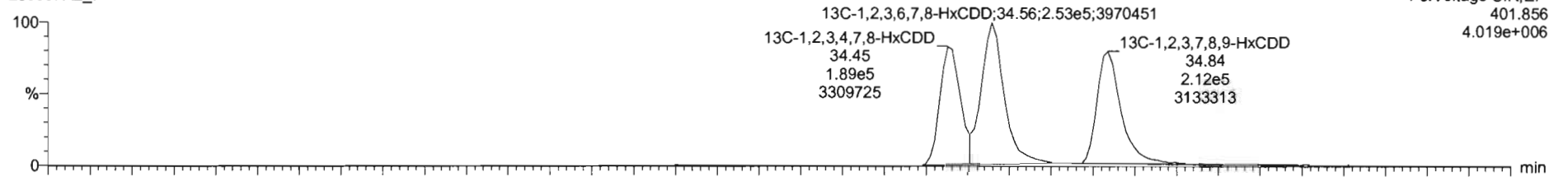


200507R2_7

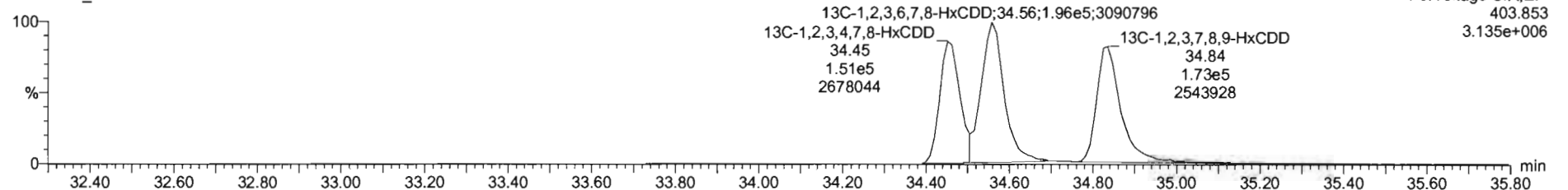


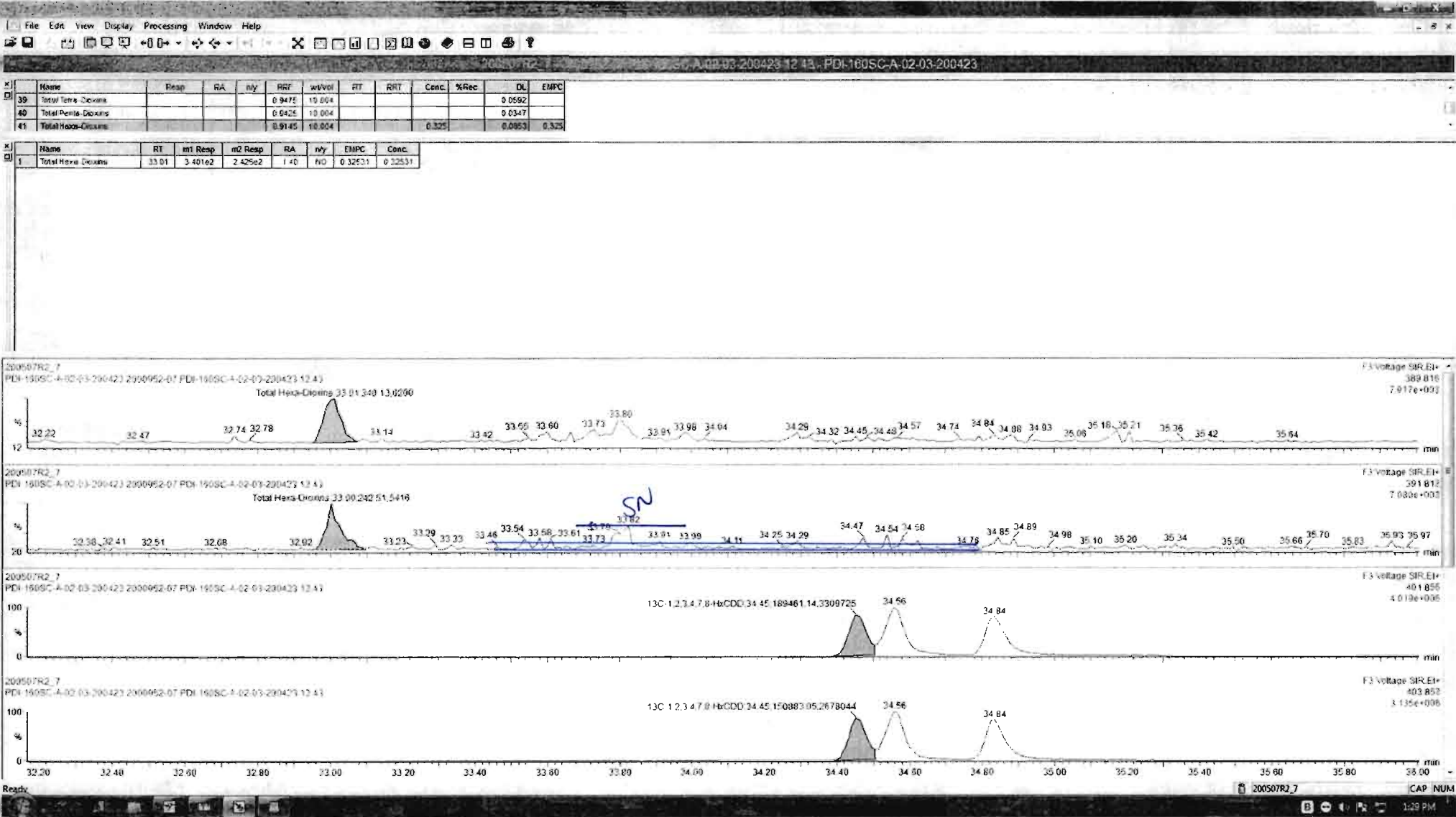
13C-1,2,3,4,7,8-HxCDD

200507R2_7



200507R2_7





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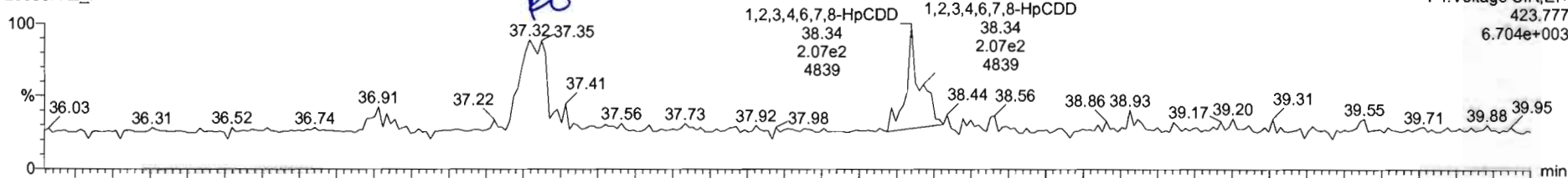
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

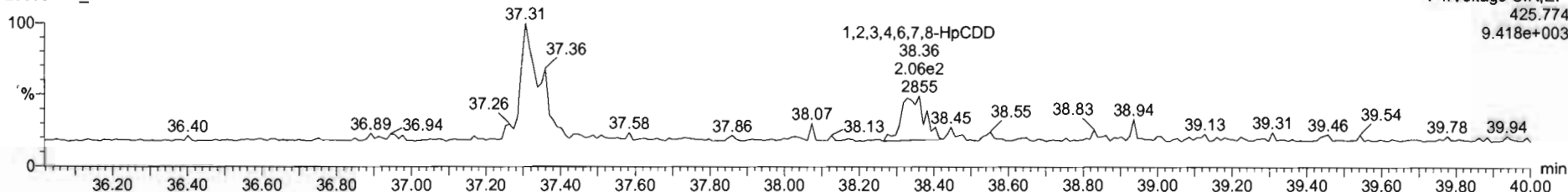
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1,2,3,4,6,7,8-HpCDD

200507R2_7

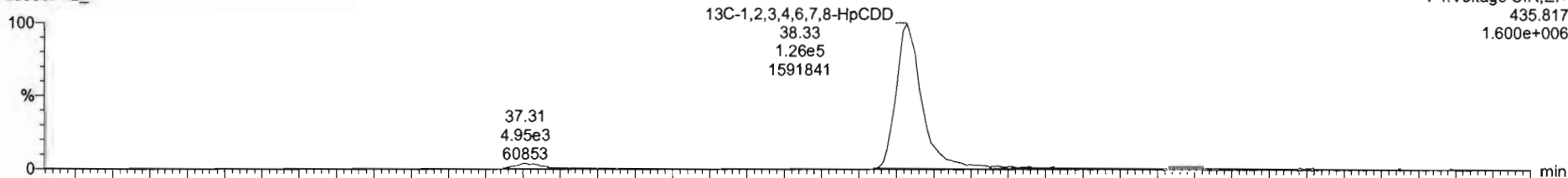


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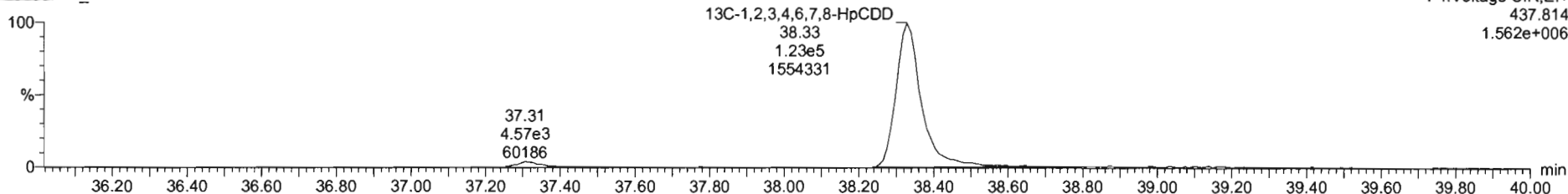


13C-1,2,3,4,6,7,8-HpCDD

200507R2_7

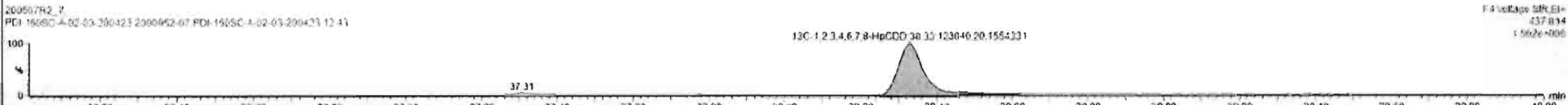
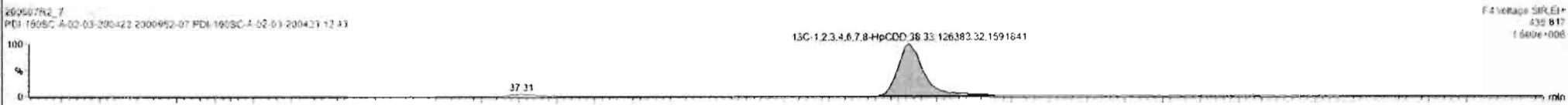
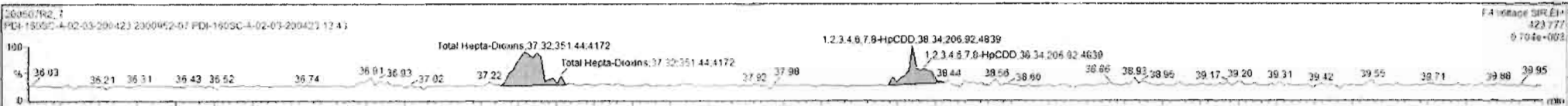


200507R2_7



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.6979	10.004			0.369		0.164	0.564
43 Total Tetra-Furans				0.7271	10.004					0.0166	
44 1st Func. Penta-Furans				0.9102	10.004					0.0118	

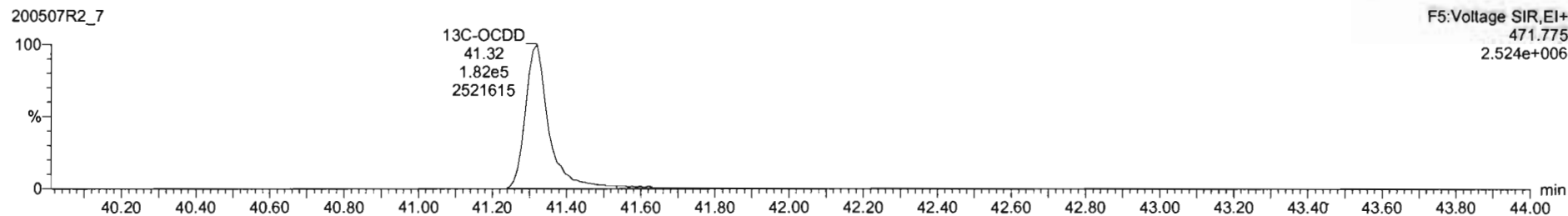
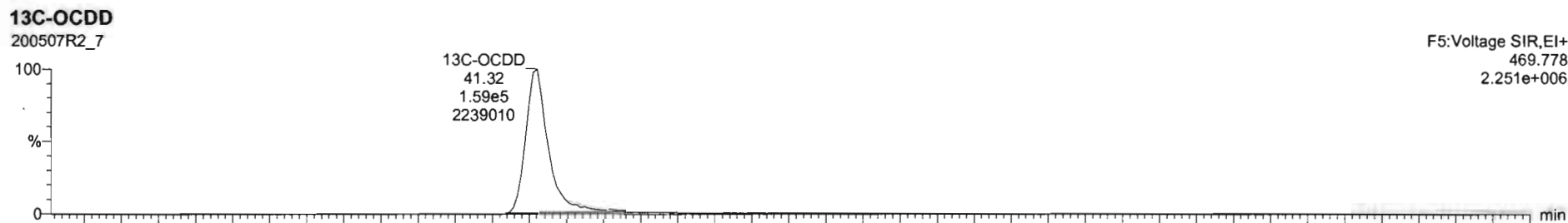
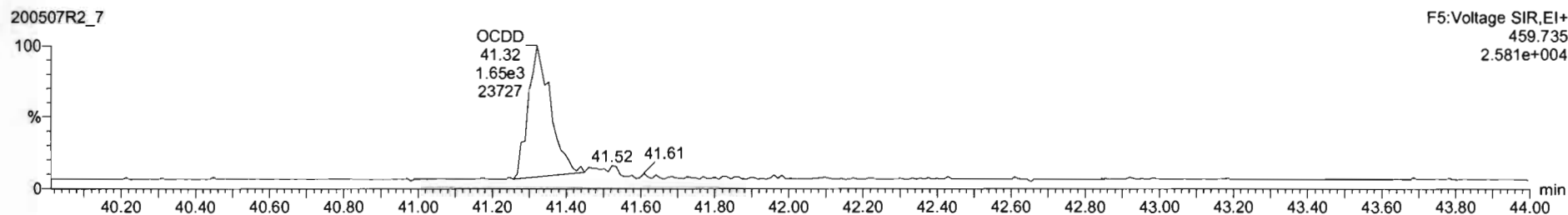
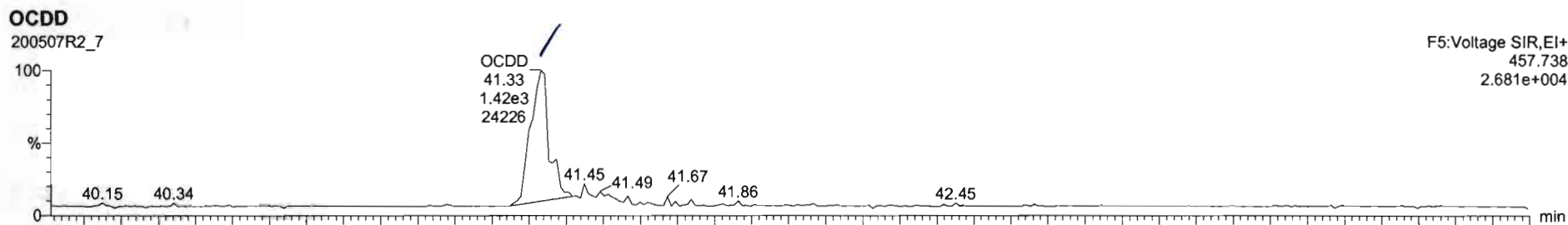
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Dioxins	37.32	3.514e2	4.596e2	0.76	YES	0.6153	0.00000
2 1,2,3,4,6,7,8-HpCDD	38.54	2.069e2	2.061e2	1.00	NO	0.36970	0.36879

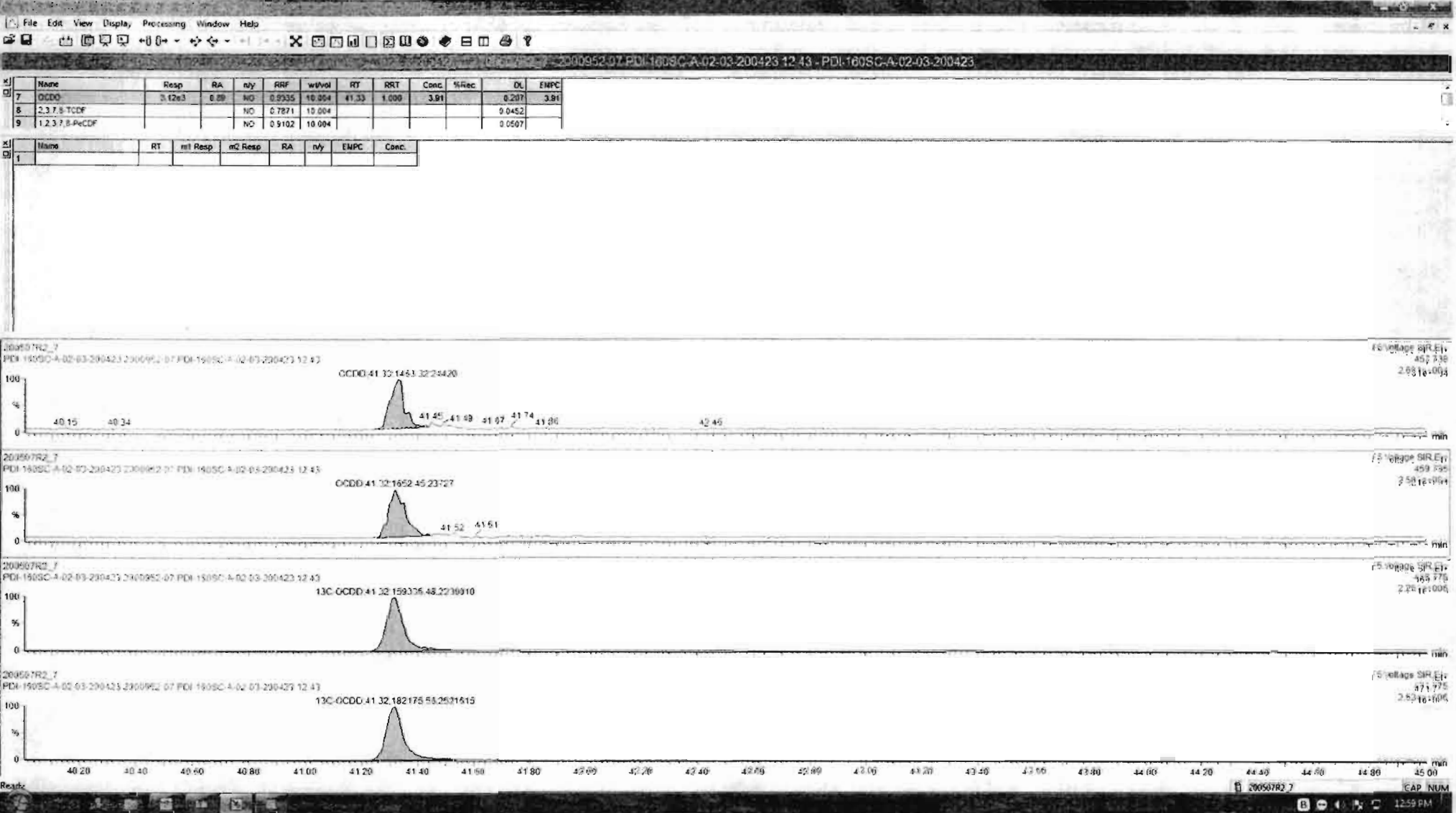


Dataset: Untitled

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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_7, Date: 07-May-2020, Time: 19:10:22, ID: 2000952-07 PDI-160SC-A-02-03-200423 12.43, Description: PDI-160SC-A-02-03-200423





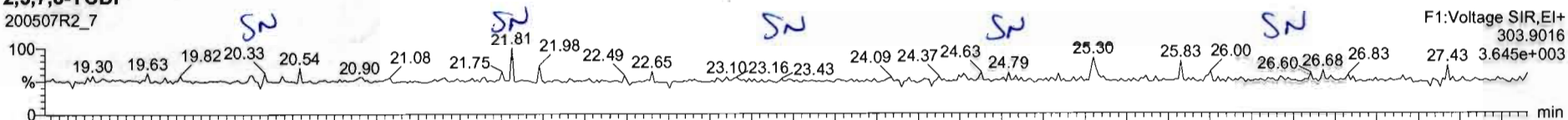
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Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
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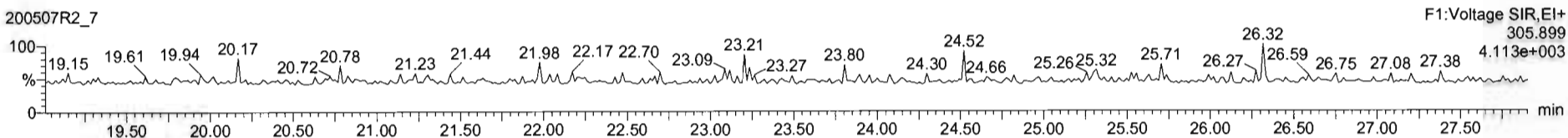
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2,3,7,8-TCDF

200507R2_7

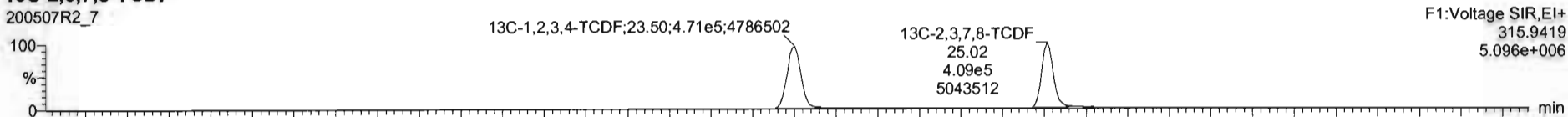


200507R2_7

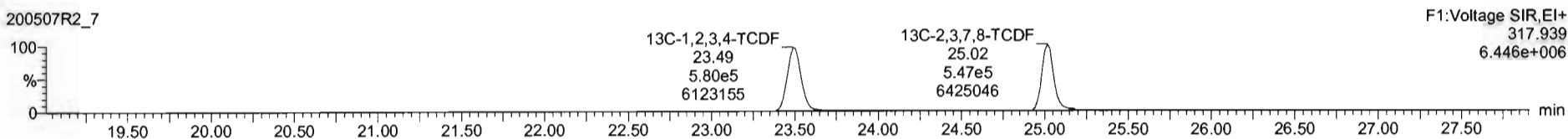


13C-2,3,7,8-TCDF

200507R2_7

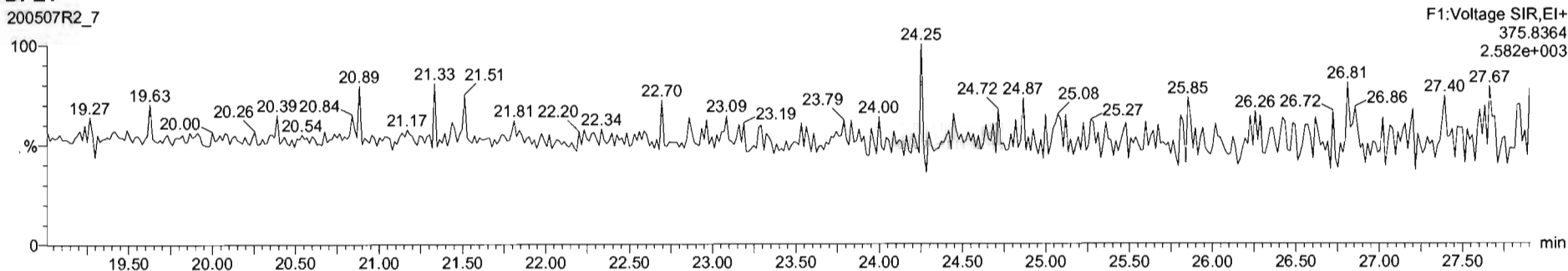


200507R2_7



DPE1

200507R2_7



Dataset: Untitled

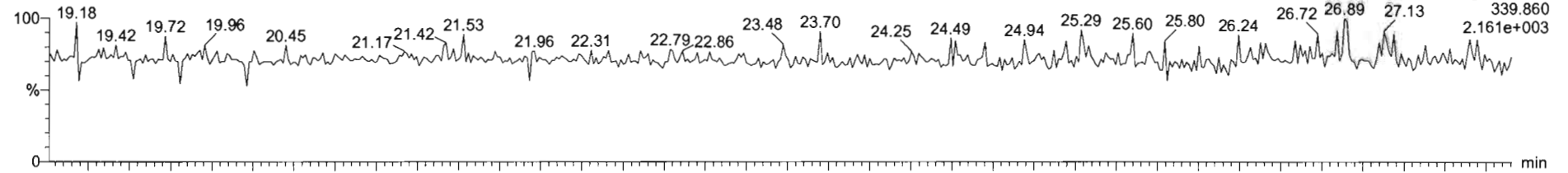
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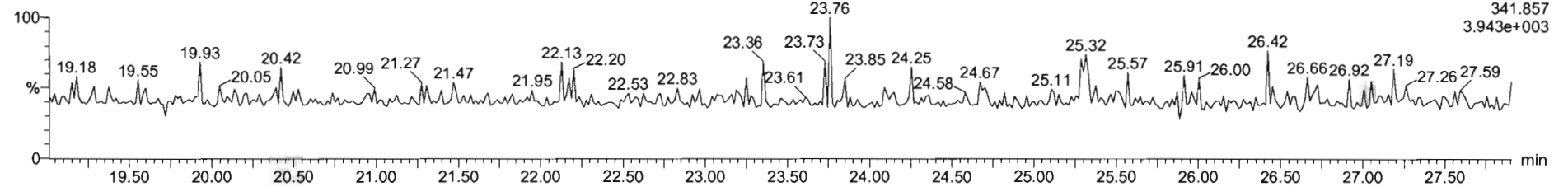
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1st Func. Penta-Furans

200507R2_7

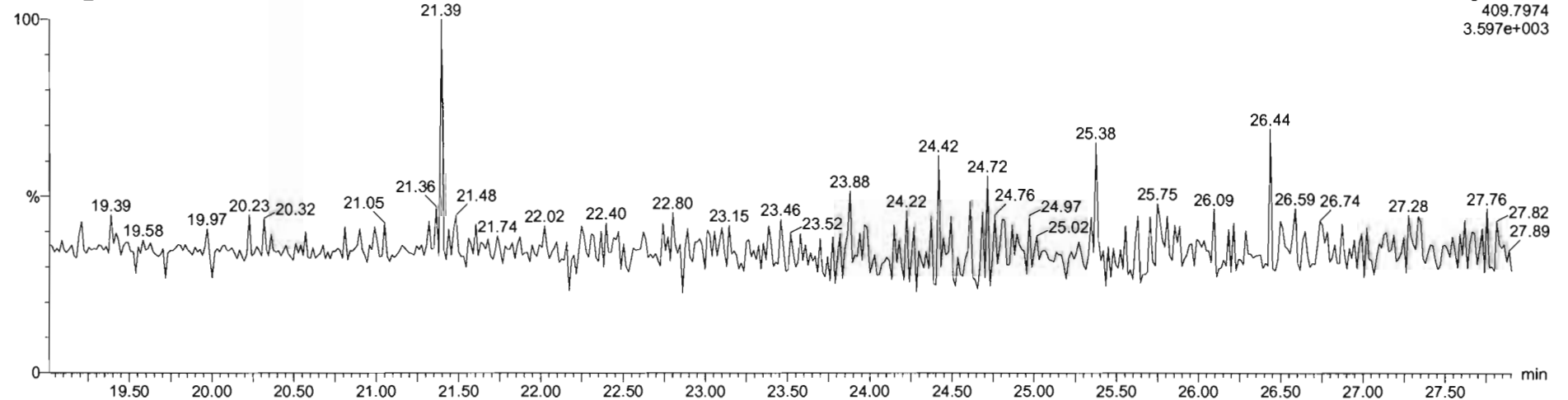


200507R2_7



DPE6

200507R2_7



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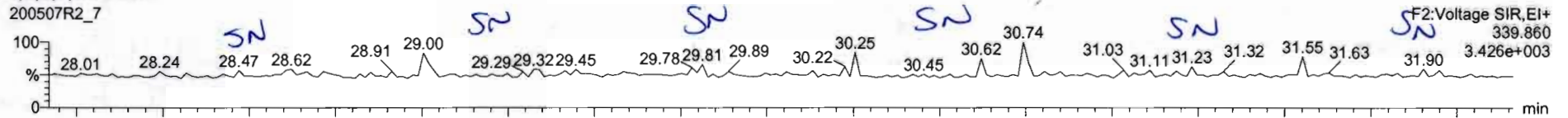
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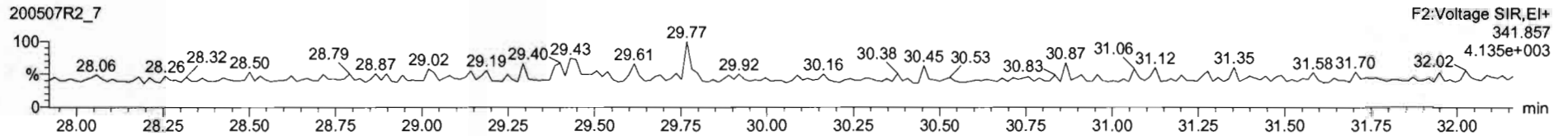
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1,2,3,7,8-PeCDF

200507R2_7

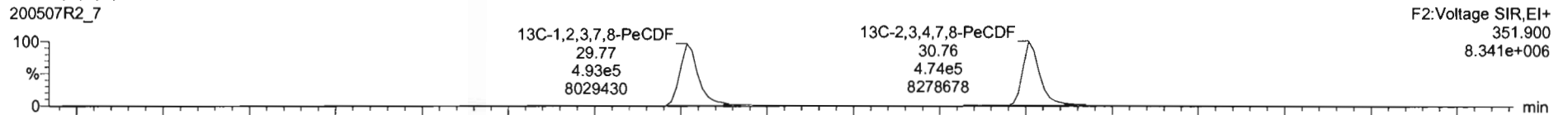


200507R2_7

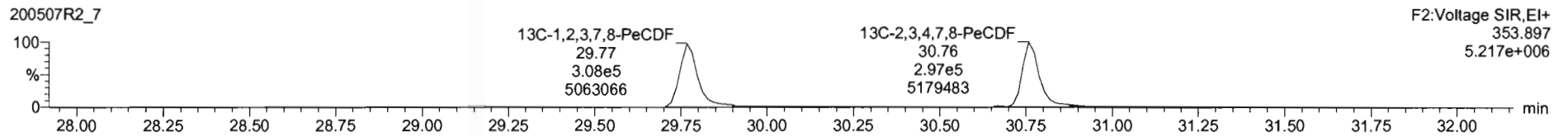


13C-1,2,3,7,8-PeCDF

200507R2_7

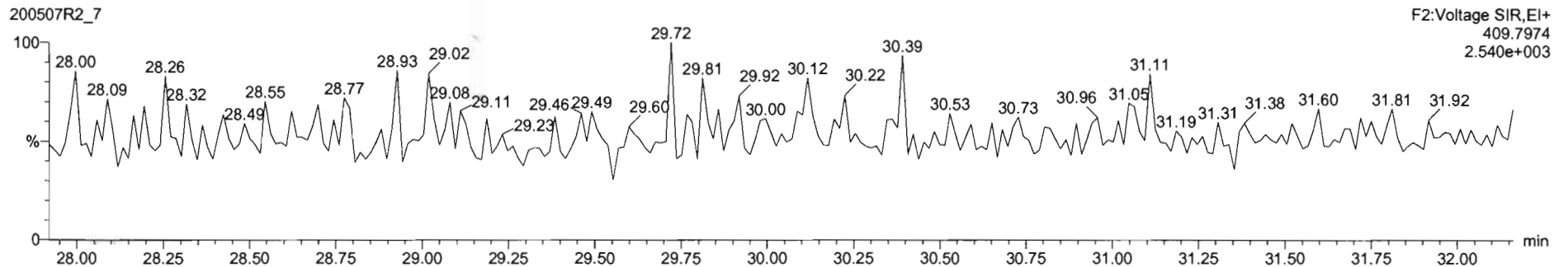


200507R2_7



DPE2

200507R2_7

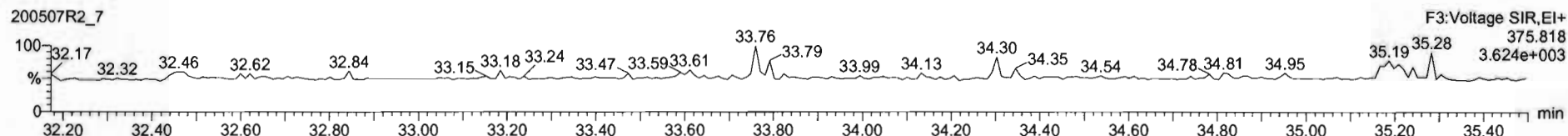
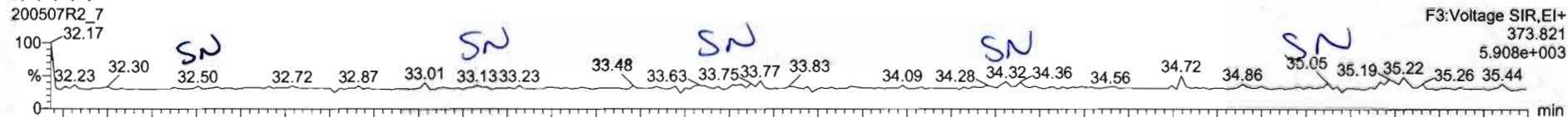


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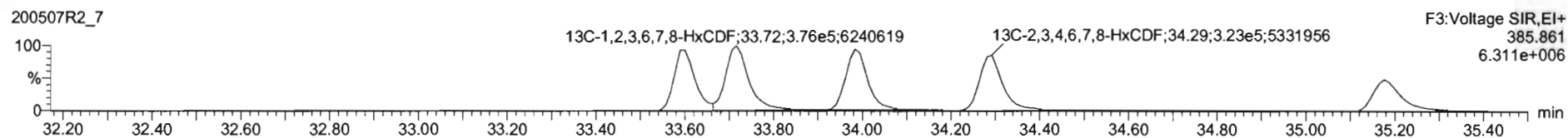
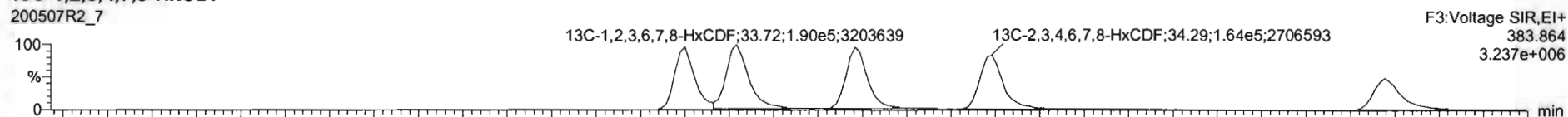
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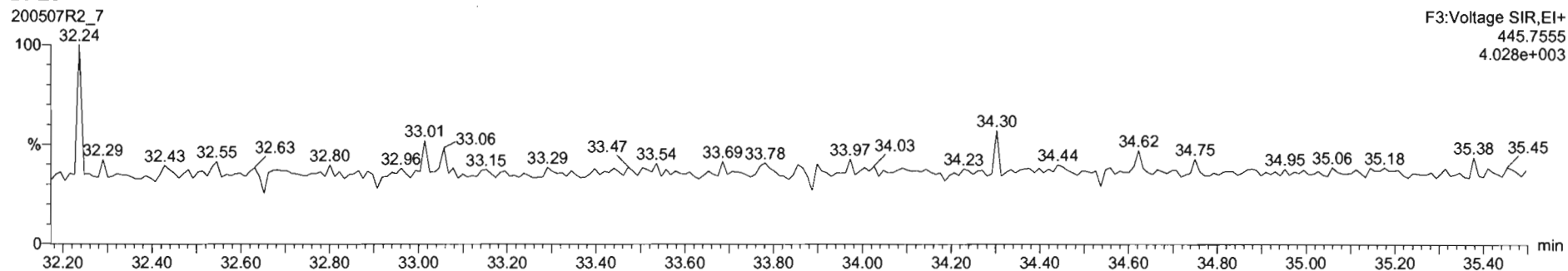
1,2,3,4,7,8-HxCDF



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



DPE3



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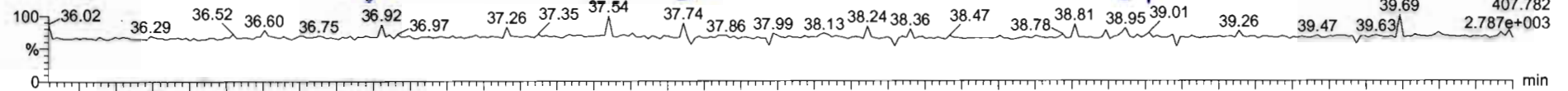
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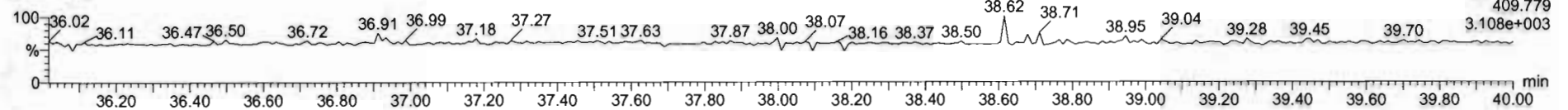
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1,2,3,4,6,7,8-HpCDF

200507R2_7

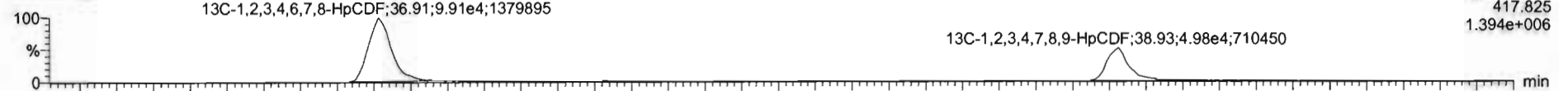


200507R2_7

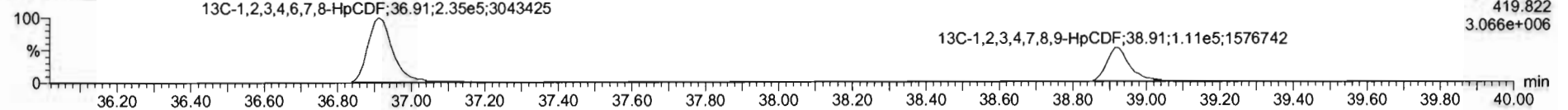


13C-1,2,3,4,6,7,8-HpCDF

200507R2_7

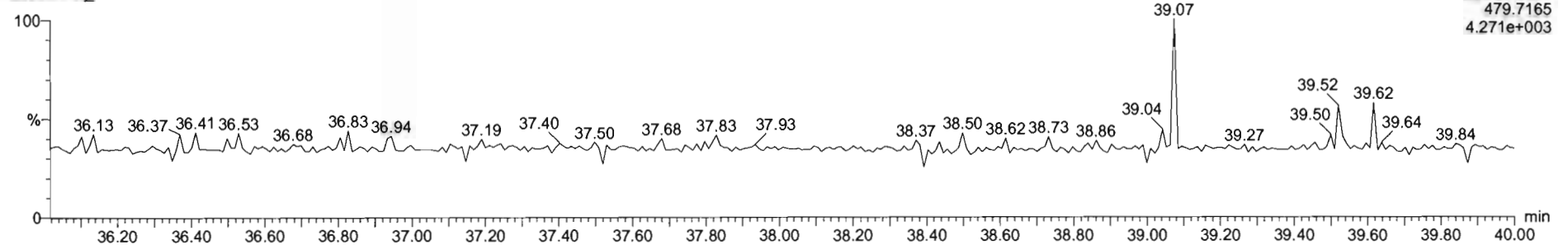


200507R2_7



DPE4

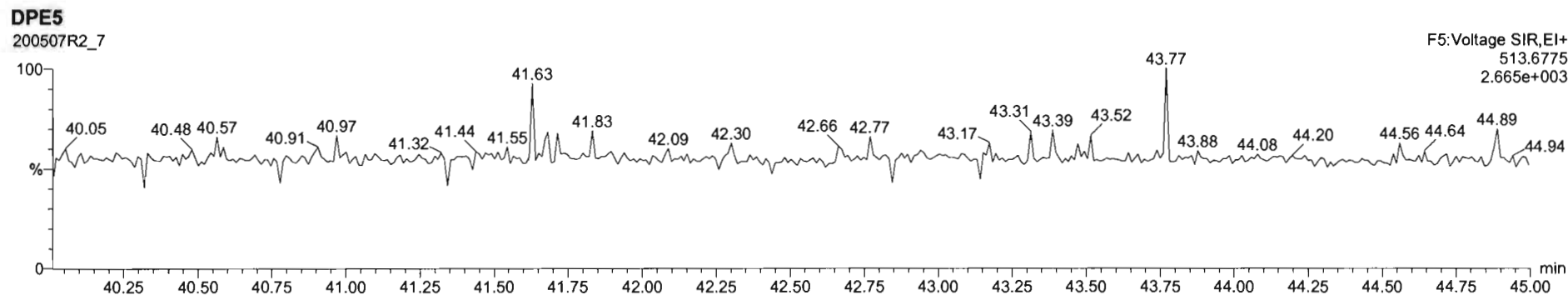
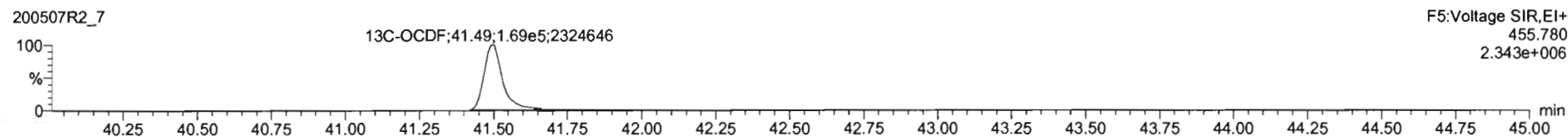
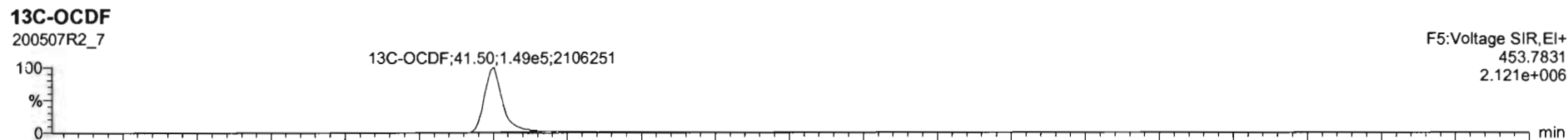
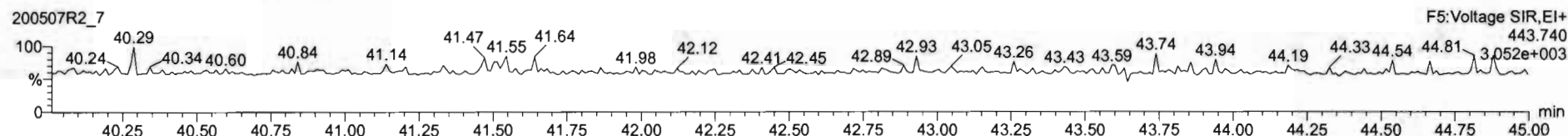
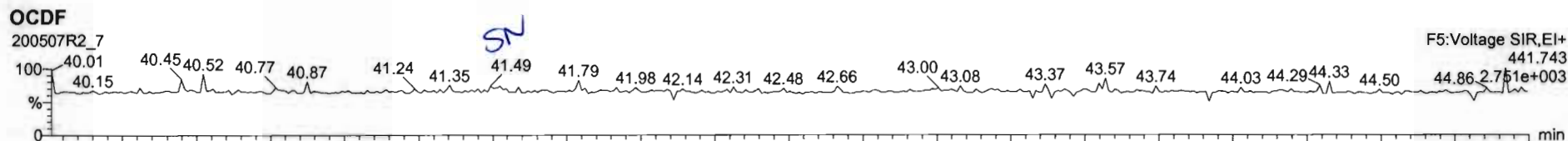
200507R2_7



Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_7, Date: 07-May-2020, Time: 19:10:22, ID: 2000952-07 PDI-160SC-A-02-03-200423 12.43, Description: PDI-160SC-A-02-03-200423



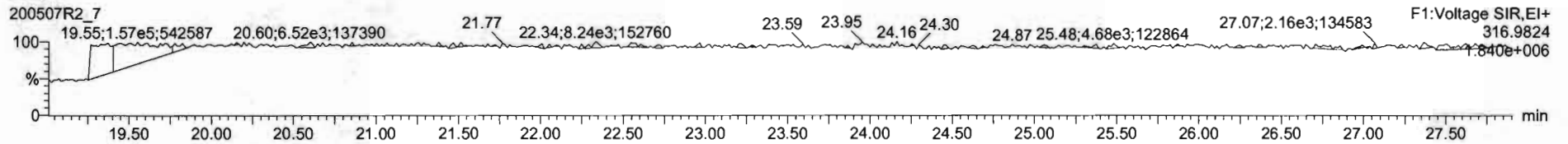
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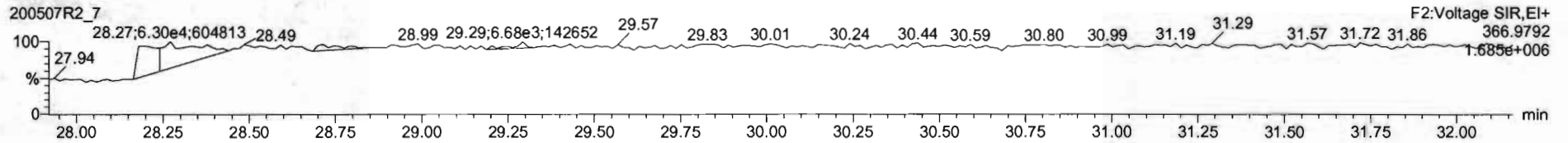
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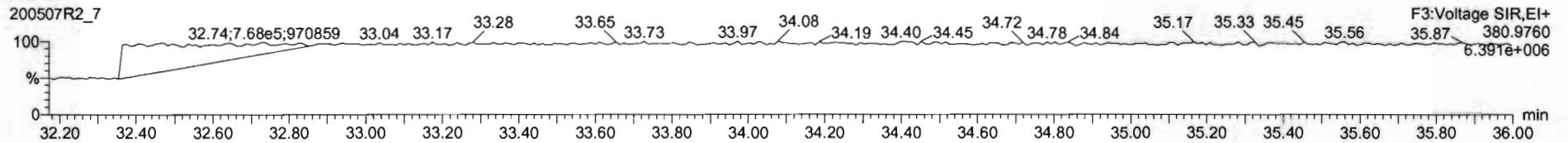
PFK1



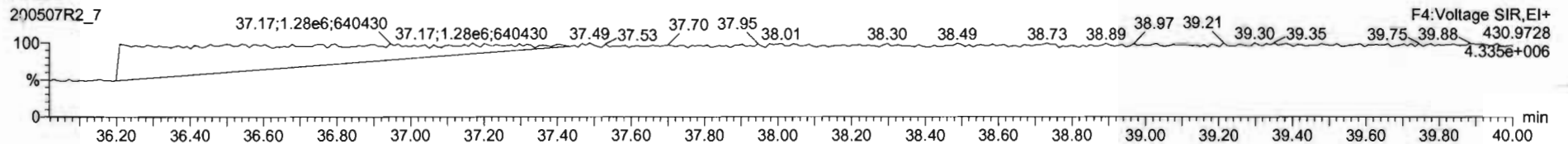
PFK2



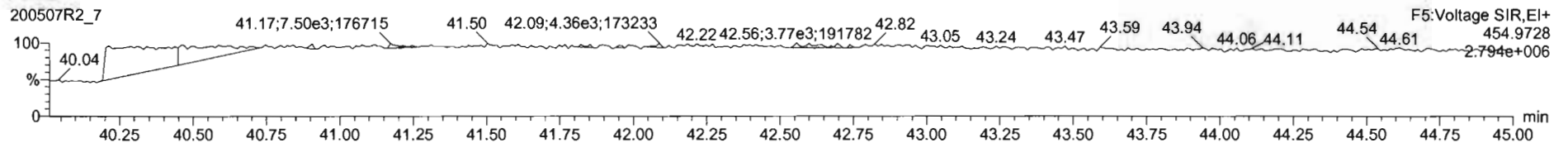
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200507R2\200507R2-8.qld

Last Altered: Friday, May 08, 2020 1:54:50 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 1:58:11 PM Pacific Daylight Time

GRB 05/08/2020

CT 05/14/2020

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

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

Name: 200507R2_8, Date: 07-May-2020, Time: 19:56:35, ID: 2000952-08 PDI-160SC-A-03-04-200423 11.13, Description: PDI-160SC-A-03-04-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.103	26.006		1.001				0.115	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.103	31.116		1.001				0.0967	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.103	34.483		1.000				0.0960	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.103	34.569		1.000				0.0921	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.103	34.856		1.000				0.116	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.103	38.362		1.000				0.189	
7	7 OCDD	1.38e3	1.01	NO	0.933	10.103	41.333	41.34	1.000	1.000	2.1530		0.205	2.15
8	8 2,3,7,8-TCDF			NO	0.787	10.103	25.057		1.001				0.0694	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.103	29.803		1.001				0.0615	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.103	30.805		1.001				0.0586	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.103	33.611		1.000				0.0426	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.103	33.738		1.000				0.0376	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.103	34.337		1.001				0.0409	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.103	35.198		1.000				0.0748	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.103	36.960		1.001				0.0678	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.103	38.936		1.000				0.114	
17	17 OCDF			NO	0.802	10.103	41.514		1.000				0.198	
18	18 13C-2,3,7,8-TCDD	5.55e5	0.77	NO	1.16	10.103	25.969	25.98	1.026	1.027	149.04	75.3	0.366	
19	19 13C-1,2,3,7,8-PeCDD	4.20e5	0.63	NO	0.847	10.103	31.049	31.09	1.227	1.229	154.36	78.0	0.688	
20	20 13C-1,2,3,4,7,8-HxCDD	2.77e5	1.26	NO	0.750	10.103	34.473	34.47	1.014	1.014	160.01	80.8	0.748	
21	21 13C-1,2,3,6,7,8-HxCDD	3.66e5	1.28	NO	0.963	10.103	34.585	34.57	1.017	1.017	164.73	83.2	0.582	
22	22 13C-1,2,3,7,8,9-HxCDD	3.16e5	1.26	NO	0.838	10.103	34.854	34.85	1.025	1.025	163.39	82.5	0.670	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.13e5	1.05	NO	0.641	10.103	38.342	38.35	1.128	1.128	143.94	72.7	0.943	
24	24 13C-OCDD	2.71e5	0.90	NO	0.586	10.103	41.333	41.33	1.216	1.216	200.34	50.6	0.568	
25	25 13C-2,3,7,8-TCDF	6.74e5	0.75	NO	1.03	10.103	25.030	25.03	0.989	0.989	135.93	68.7	0.579	
26	26 13C-1,2,3,7,8-PeCDF	6.22e5	1.61	NO	0.845	10.103	29.741	29.78	1.176	1.177	153.57	77.6	0.921	
27	27 13C-2,3,4,7,8-PeCDF	5.84e5	1.61	NO	0.814	10.103	30.731	30.77	1.215	1.216	149.70	75.6	0.956	
28	28 13C-1,2,3,4,7,8-HxCDF	3.89e5	0.50	NO	1.00	10.103	33.613	33.61	0.989	0.989	168.05	84.9	0.839	
29	29 13C-1,2,3,6,7,8-HxCDF	4.69e5	0.49	NO	1.14	10.103	33.736	33.73	0.992	0.992	179.05	90.4	0.742	
30	30 13C-2,3,4,6,7,8-HxCDF	4.11e5	0.49	NO	1.02	10.103	34.303	34.30	1.009	1.009	174.49	88.1	0.825	
31	31 13C-1,2,3,7,8,9-HxCDF	3.00e5	0.49	NO	0.845	10.103	35.194	35.20	1.035	1.035	154.10	77.8	0.998	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-8.qld

Last Altered: Friday, May 08, 2020 1:54:50 PM Pacific Daylight Time

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Name: 200507R2_8, Date: 07-May-2020, Time: 19:56:35, ID: 2000952-08 PDI-160SC-A-03-04-200423 11.13, Description: PDI-160SC-A-03-04-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.77e5	0.43	NO	0.771	10.103	36.924	36.92	1.086	1.086	155.67	78.6	0.946	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.39e5	0.41	NO	0.482	10.103	38.933	38.94	1.145	1.145	124.73	63.0	1.51	
34	34 13C-OCDF	2.46e5	0.90	NO	0.669	10.103	41.503	41.51	1.221	1.221	159.62	40.3	0.428	
35	35 37Cl-2,3,7,8-TCDD	2.09e5			1.10	10.103	25.999	26.00	1.028	1.028	59.300	74.9	0.103	
36	36 13C-1,2,3,4-TCDD	6.36e5	0.80	NO	1.00	10.103	25.350	25.30	1.000	1.000	197.96	100	0.424	
37	37 13C-1,2,3,4-TCDF	9.48e5	0.79	NO	1.00	10.103	23.560	23.50	1.000	1.000	197.96	100	0.599	
38	38 13C-1,2,3,4,6,9-HxCDF	4.57e5	0.50	NO	1.00	10.103	34.000	33.99	1.000	1.000	197.96	100	0.843	
39	39 Total Tetra-Dioxins				0.947	10.103	24.620		0.000				0.0717	
40	40 Total Penta-Dioxins				0.942	10.103	29.960		0.000				0.0276	
41	41 Total Hexa-Dioxins				0.915	10.103	33.635		0.000		0.00000		0.0490	0.202
42	42 Total Hepta-Dioxins				0.898	10.103	37.640		0.000				0.121	
43	43 Total Tetra-Furans				0.787	10.103	23.610		0.000				0.0296	
44	44 1st Func. Penta-Furans				0.910	10.103	27.090		0.000				0.0179	
45	45 Total Penta-Furans				0.910	10.103	29.275		0.000				0.0315	
46	46 Total Hexa-Furans				0.922	10.103	33.555		0.000				0.0271	
47	47 Total Hepta-Furans				0.871	10.103	37.835		0.000				0.0418	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-8.qld

Last Altered: Friday, May 08, 2020 1:54:50 PM Pacific Daylight Time

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

Name: 200507R2_8, Date: 07-May-2020, Time: 19:56:35, ID: 2000952-08 PDI-160SC-A-03-04-200423 11.13, Description: PDI-160SC-A-03-04-200423

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.04	2.955e3	4.146e3	1.649e2	1.813e2	0.91	YES	0.000e0	0.00000	0.20187	0.0490

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\200507R2\200507R2-8.qld

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Name: 200507R2_8, Date: 07-May-2020, Time: 19:56:35, ID: 2000952-08 PDI-160SC-A-03-04-200423 11.13, Description: PDI-160SC-A-03-04-200423

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

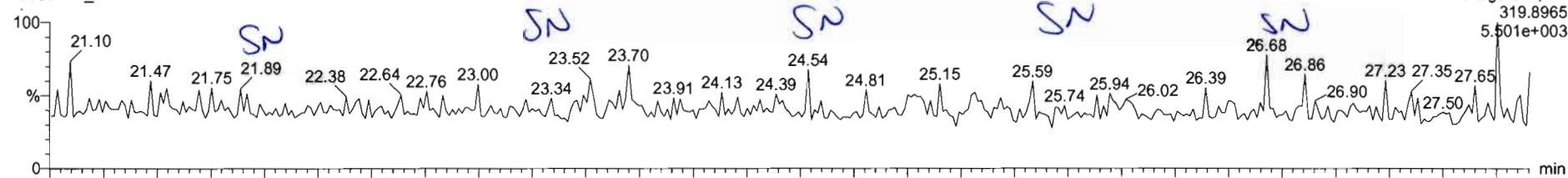
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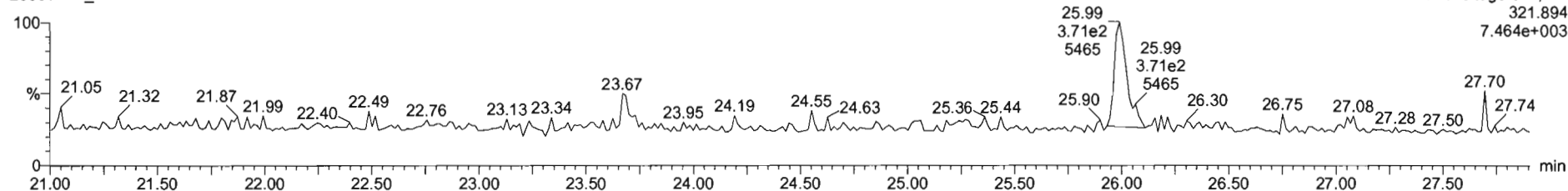
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2,3,7,8-TCDD

200507R2_8

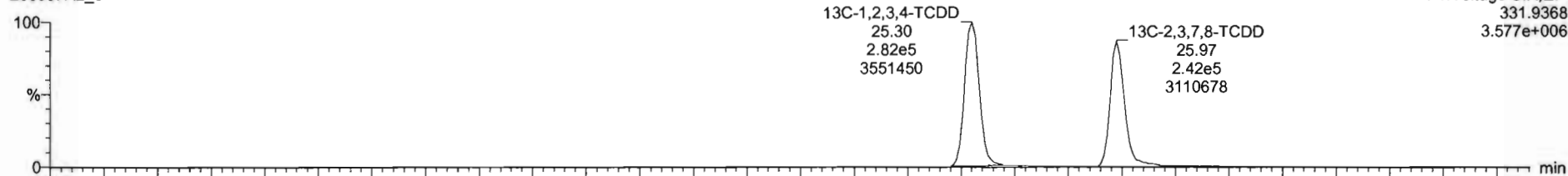


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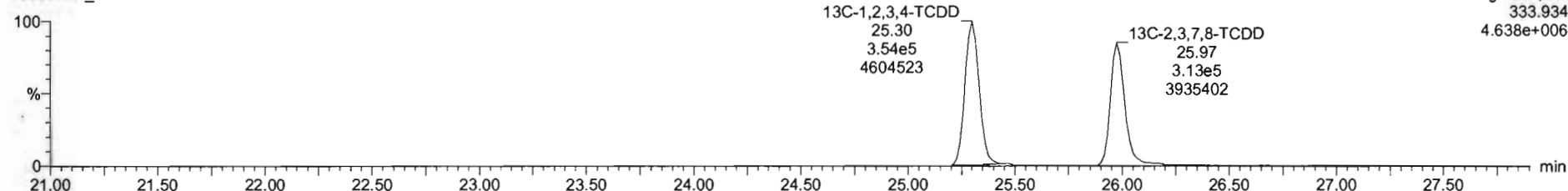


13C-2,3,7,8-TCDD

200507R2_8



200507R2_8



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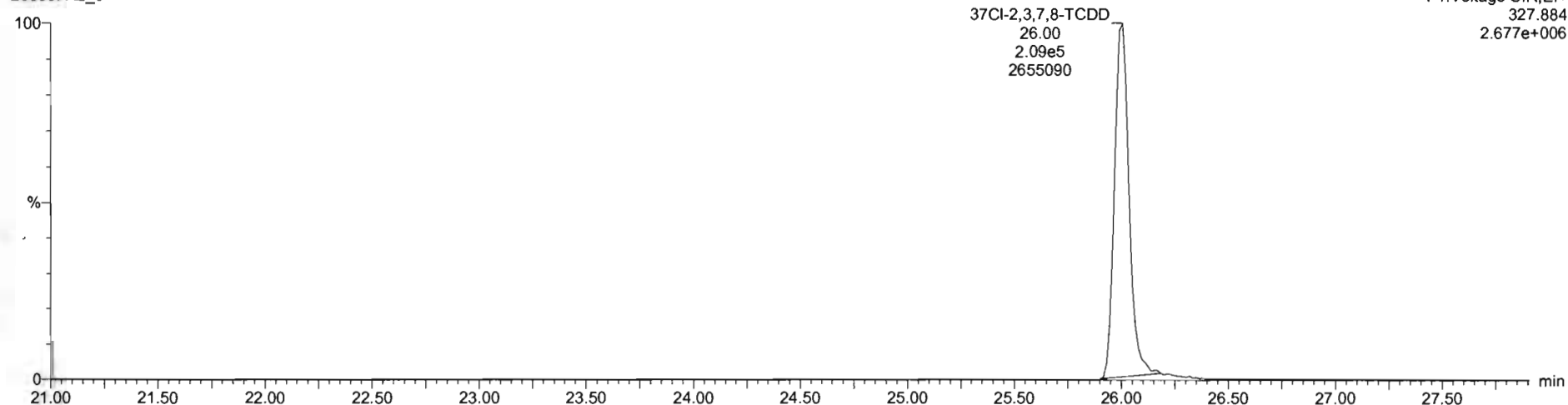
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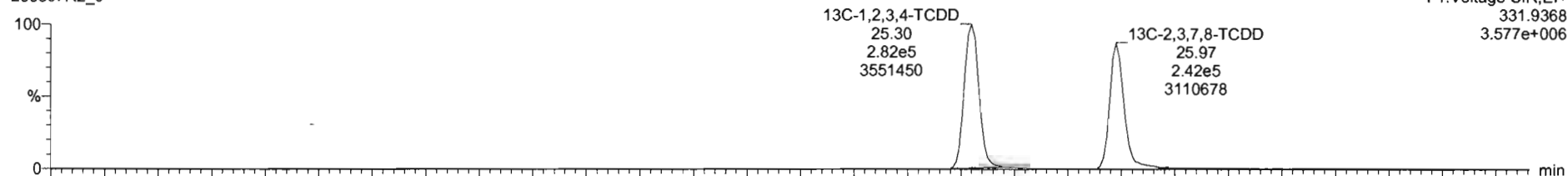
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200507R2_8

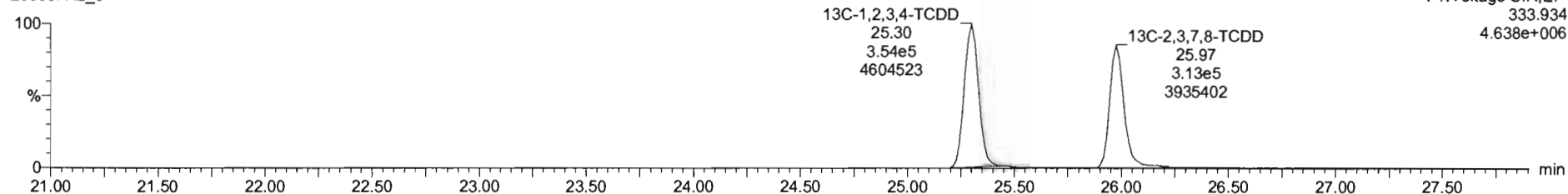


13C-1,2,3,4-TCDD

200507R2_8



200507R2_8



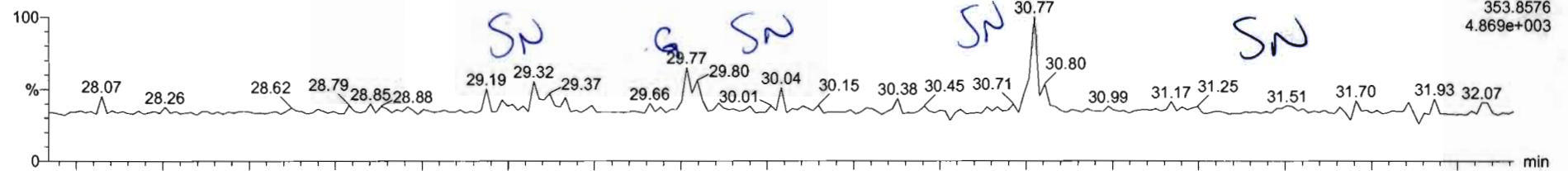
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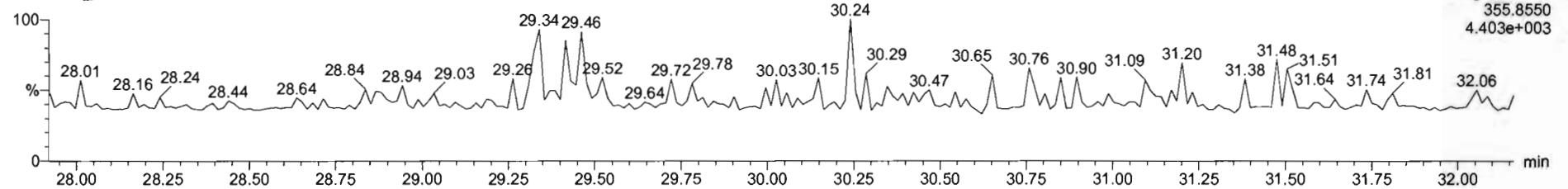
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1,2,3,7,8-PeCDD

200507R2_8

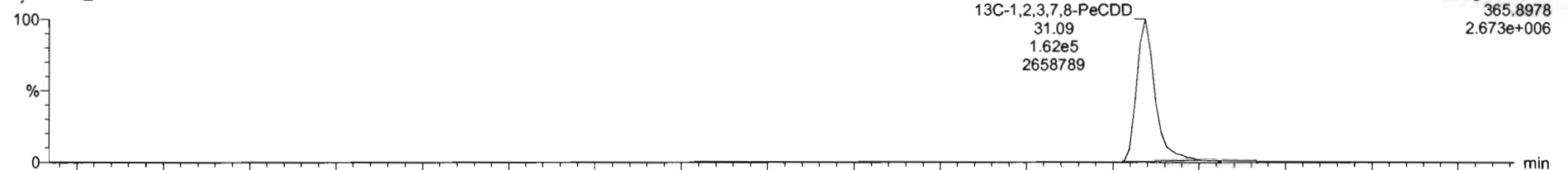


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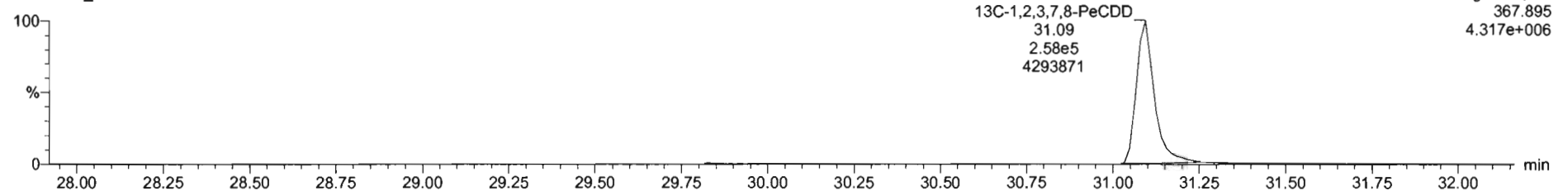


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200507R2_8



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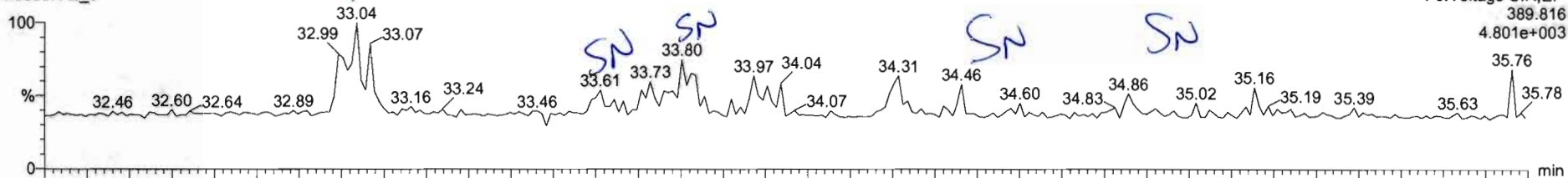
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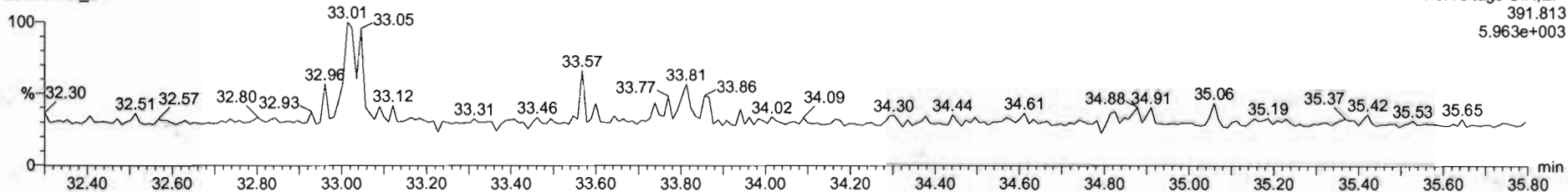
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1,2,3,4,7,8-HxCDD

200507R2_8

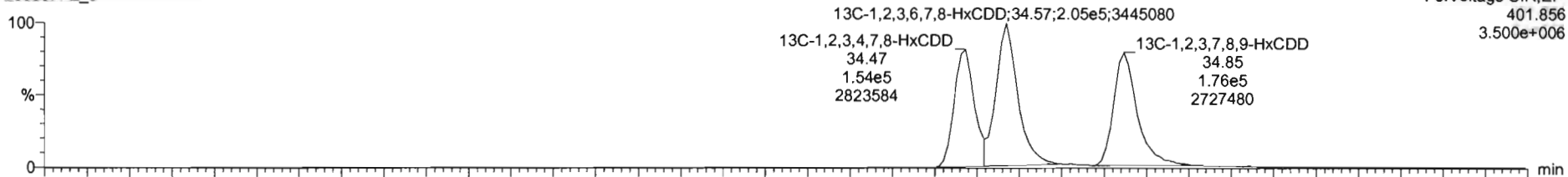


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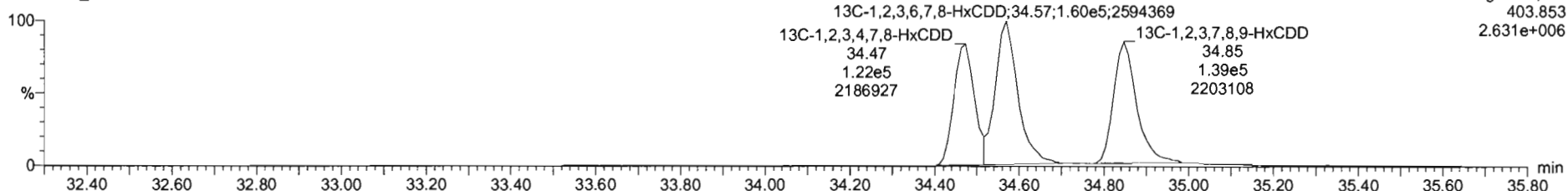


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200507R2_8

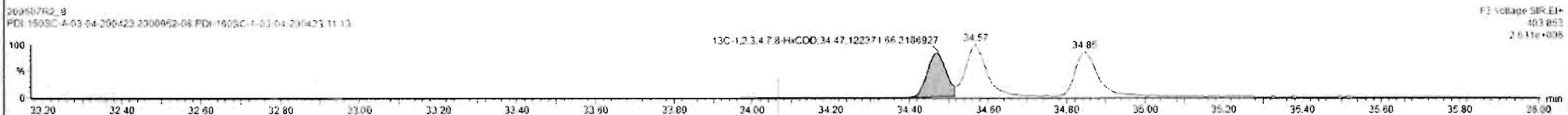
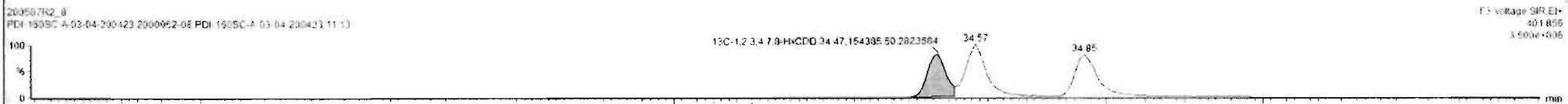
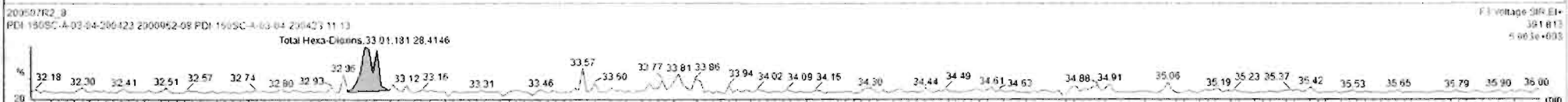
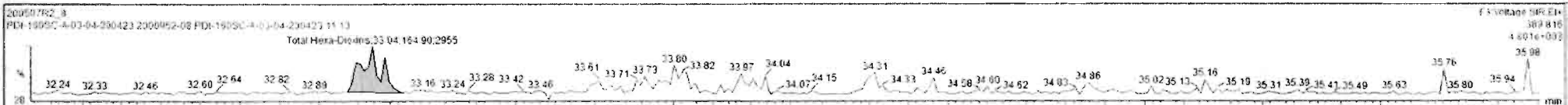


200507R2_8



Name	Resp	RA	nry	RRF	w/Nol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	19.103					0.0717	
40 Total Penta-Dioxins				0.9425	19.103					0.0276	
41 Total Hexa-Dioxins				0.9145	10.103			0.000		0.0499	0.282

Name	RT	m1 Resp	m2 Resp	RA	nry	EMPC	Conc
1 Total Hexa-Dioxins	33.04	1.649e2	1.813e2	0.91	~15	0.20167	0.00000



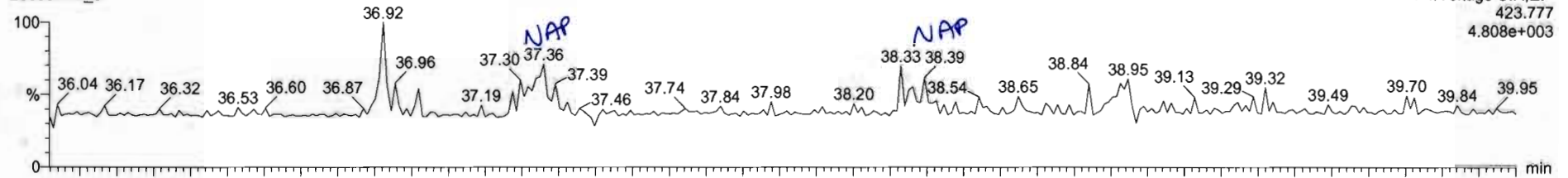
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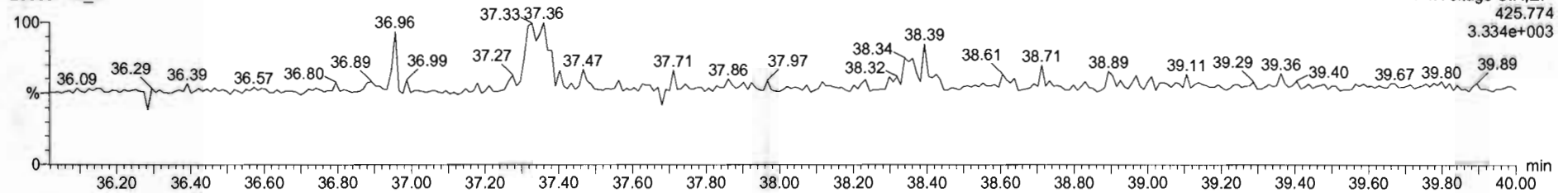
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1,2,3,4,6,7,8-HpCDD

200507R2_8



200507R2_8

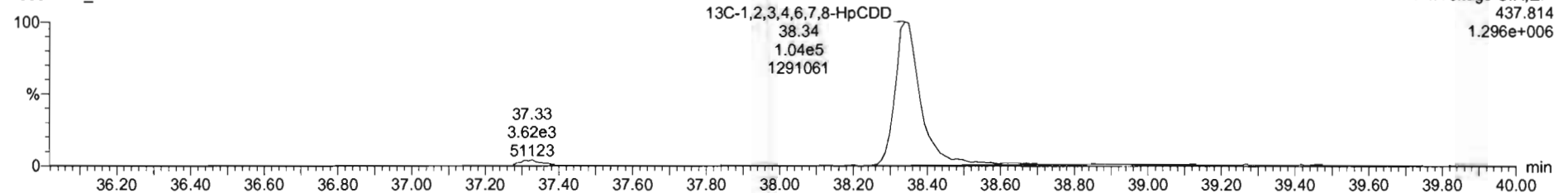


13C-1,2,3,4,6,7,8-HpCDD

200507R2_8



200507R2_8

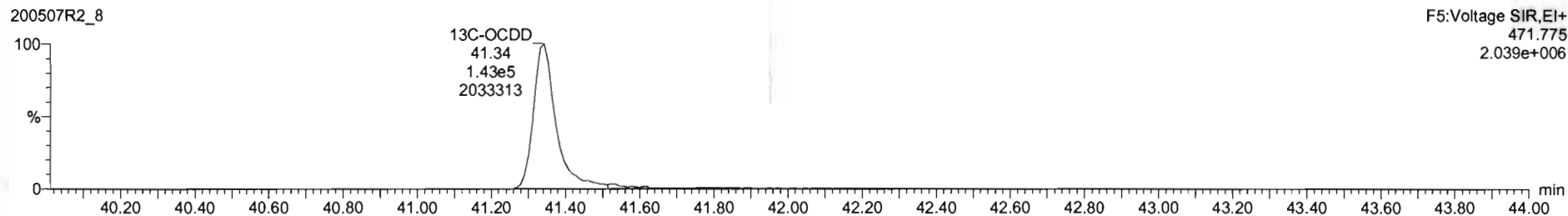
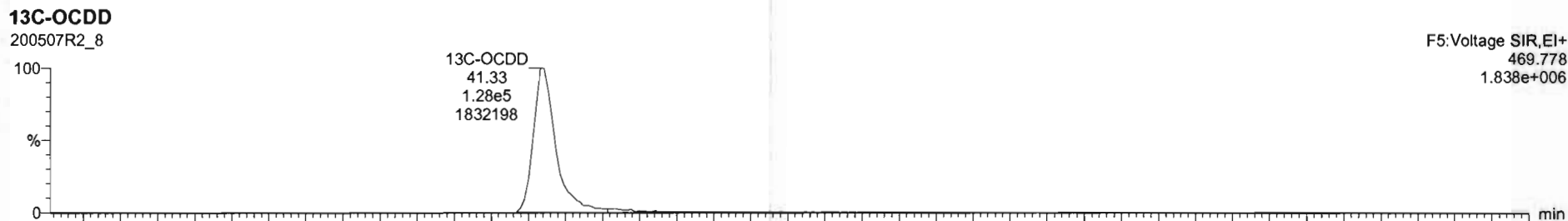
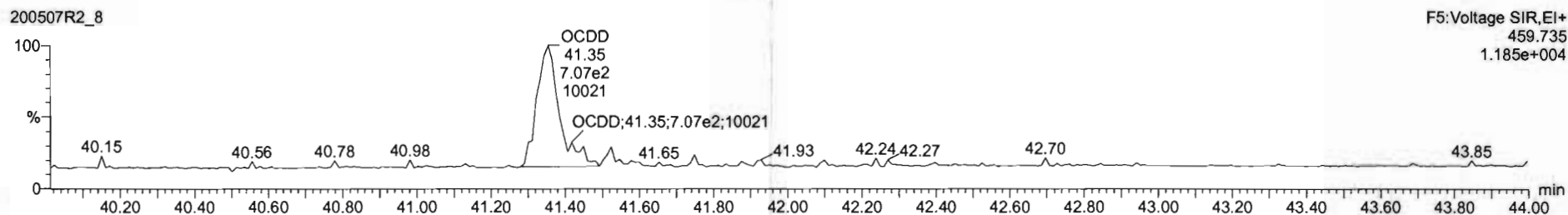
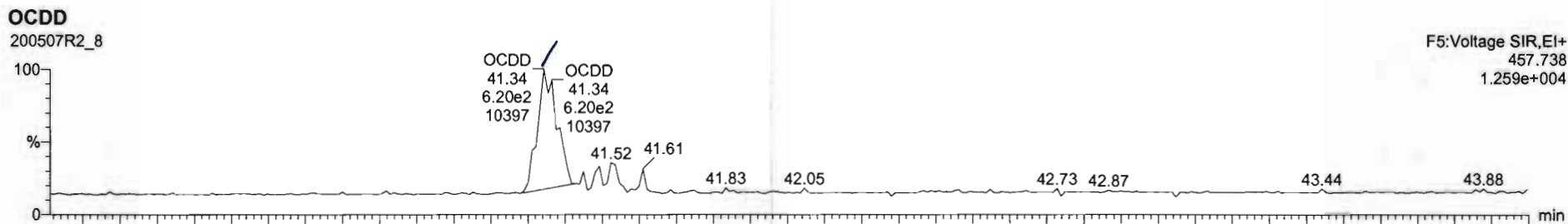


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Name	Resp	RA	n/y	RRF	wVvol	RT	RRT	Conc.	%Rec	DL	EMPC
7	OCDD	1.36e3	1.01	NO	0.8335	10.103	41.34	1.000	2.15	0.205	2.15
8	2,2,7,8-TCDF			NO	0.7871	10.103				0.0694	
9	1,2,3,7,8-PeCDF			NO	0.9102	10.103				0.0615	

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



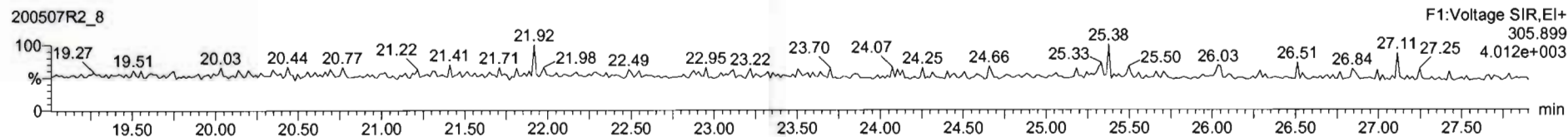
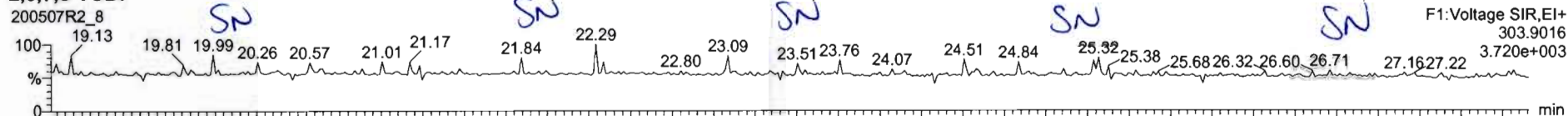
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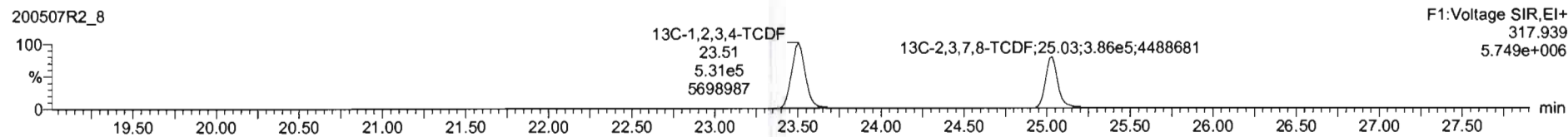
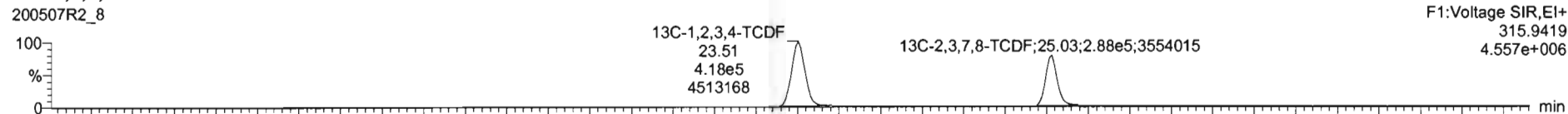
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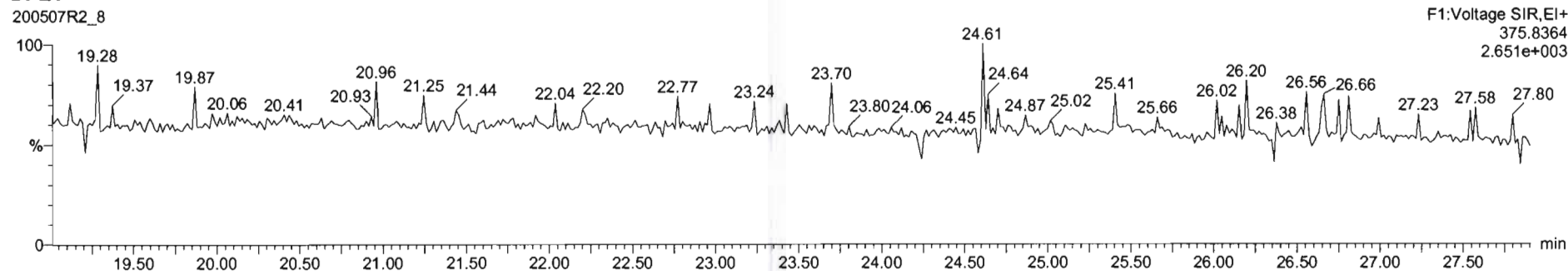
2,3,7,8-TCDF



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



DPE1



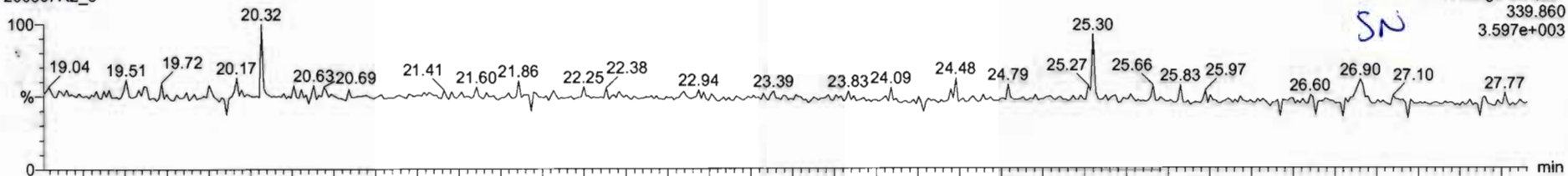
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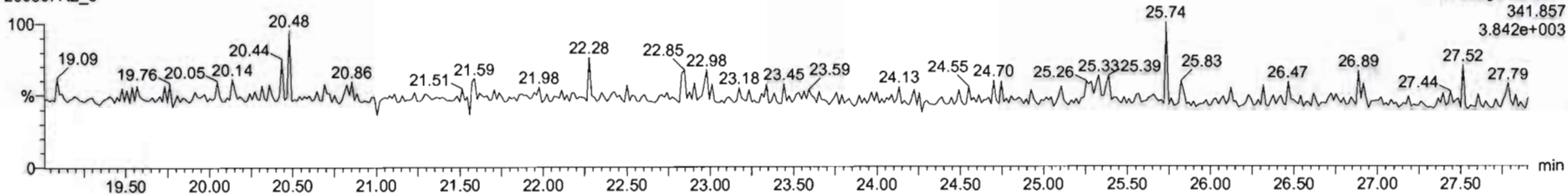
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1st Func. Penta-Furans

200507R2_8

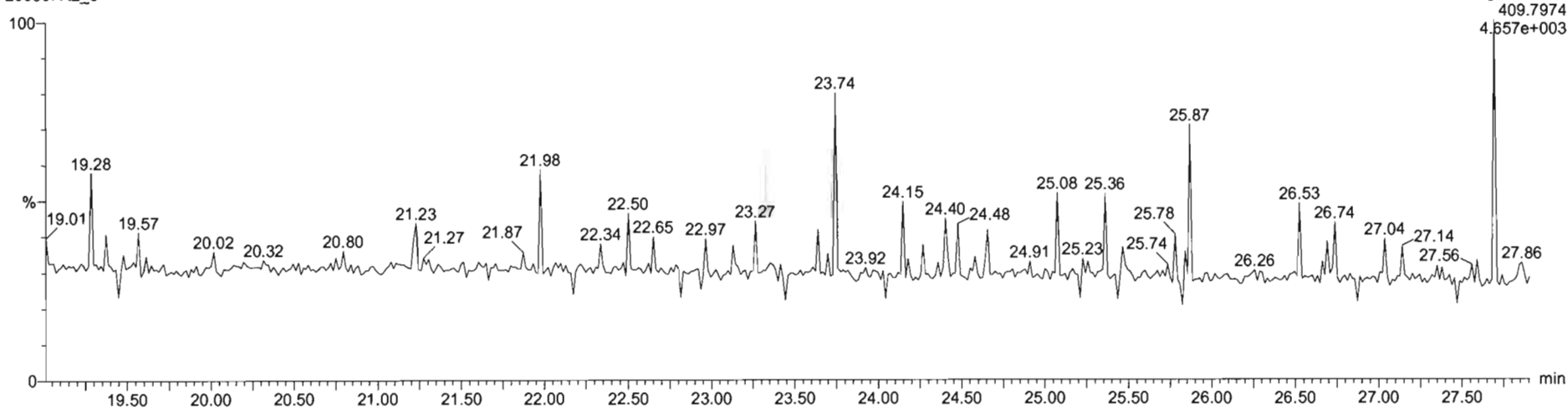


200507R2_8



DPE6

200507R2_8

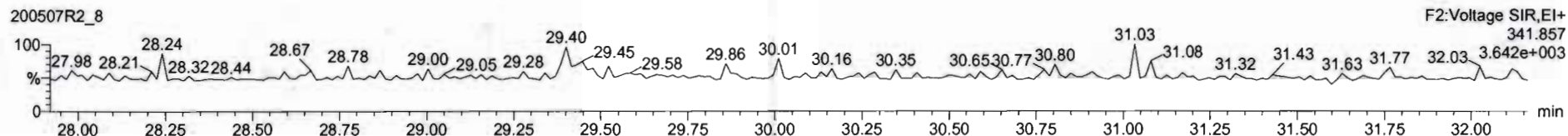
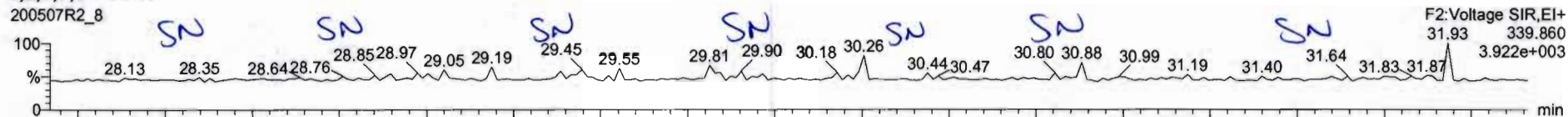


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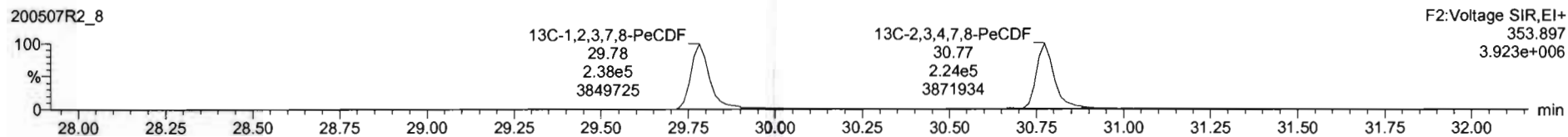
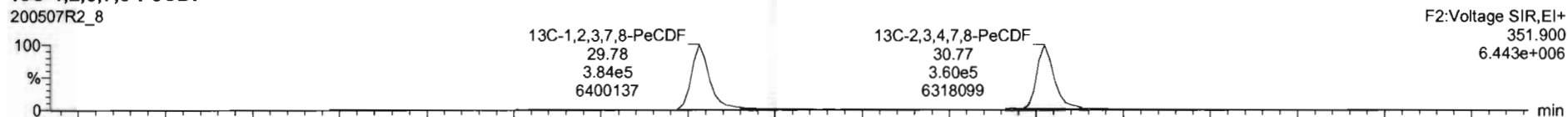
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_8, Date: 07-May-2020, Time: 19:56:35, ID: 2000952-08 PDI-160SC-A-03-04-200423 11.13, Description: PDI-160SC-A-03-04-200423

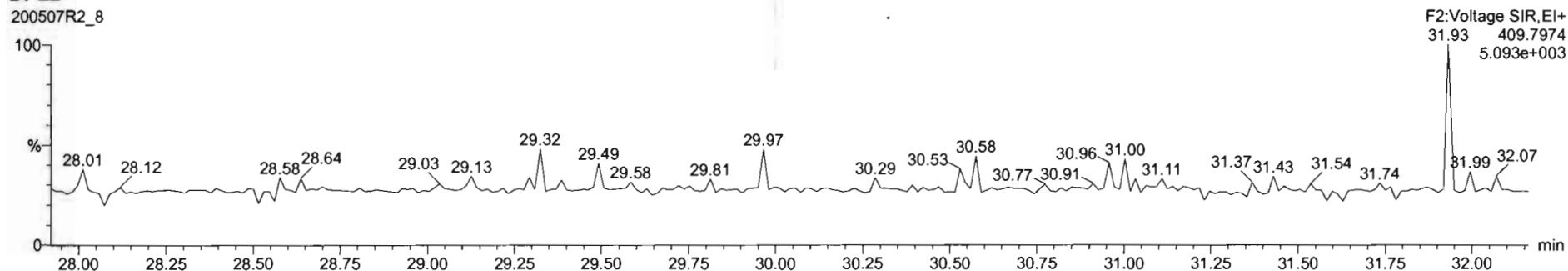
1,2,3,7,8-PeCDF



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



DPE2



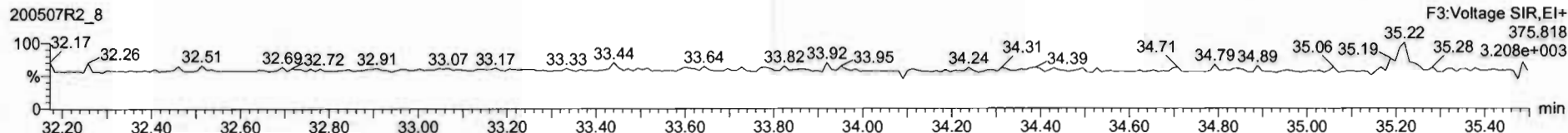
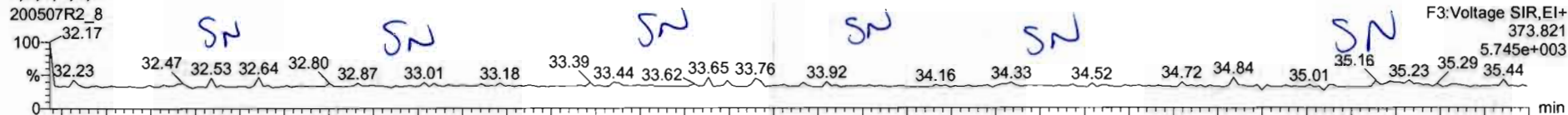
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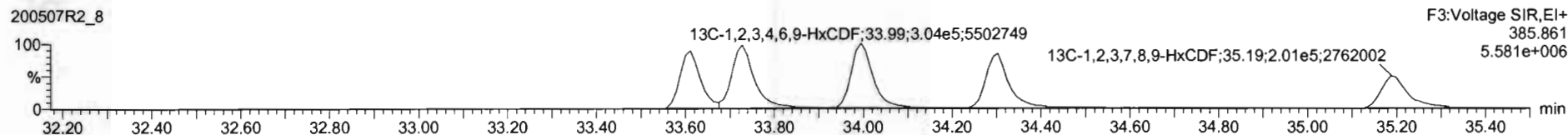
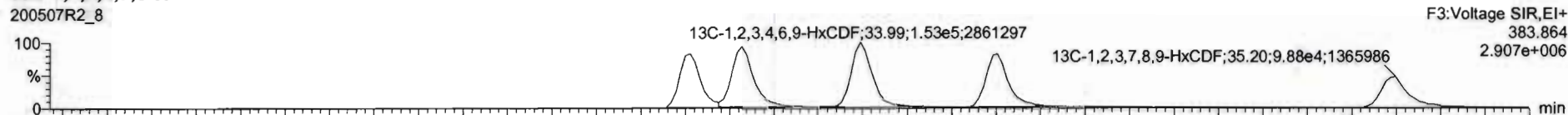
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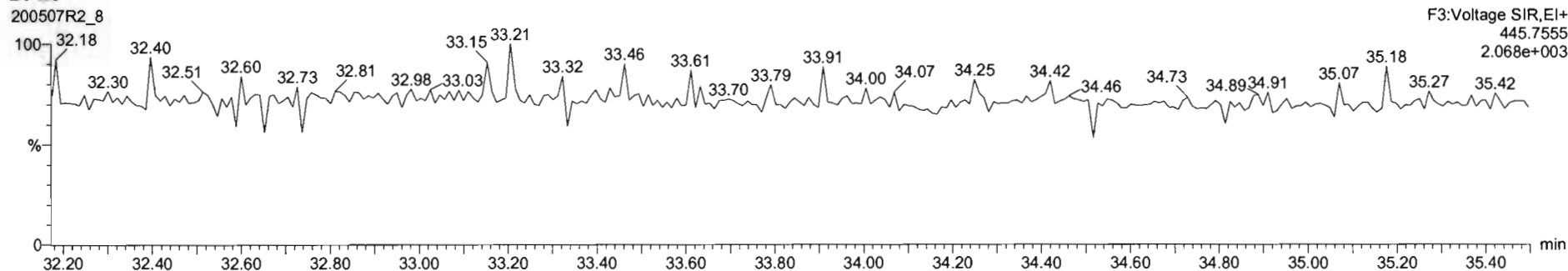
1,2,3,4,7,8-HxCDF



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

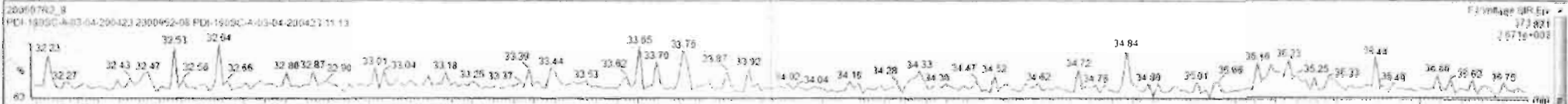


DPE3



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans			0.9102	10.103					0.0315	
46	Total Hexa-Furans			0.8217	10.103					0.0271	
47	Total Hepta-Furans			0.8712	10.103					0.0410	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1							

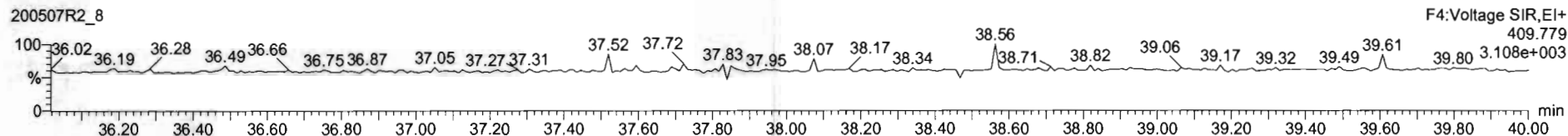
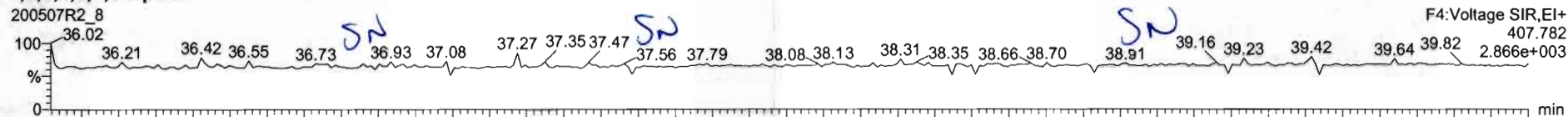


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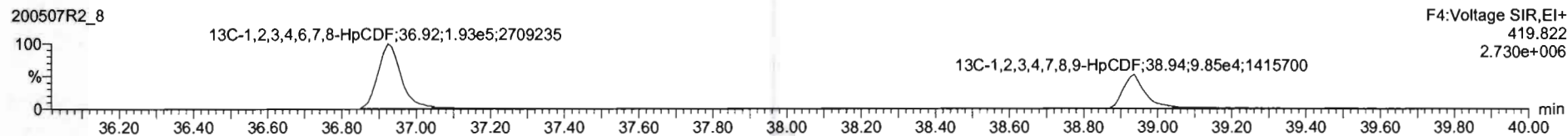
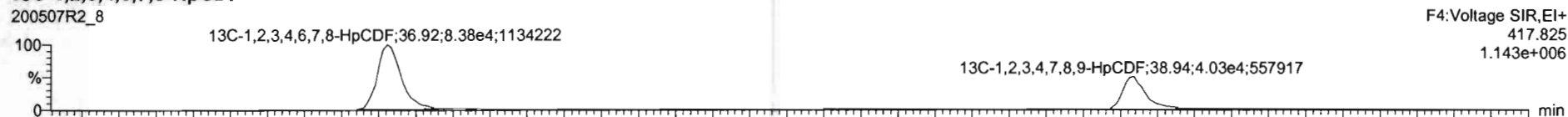
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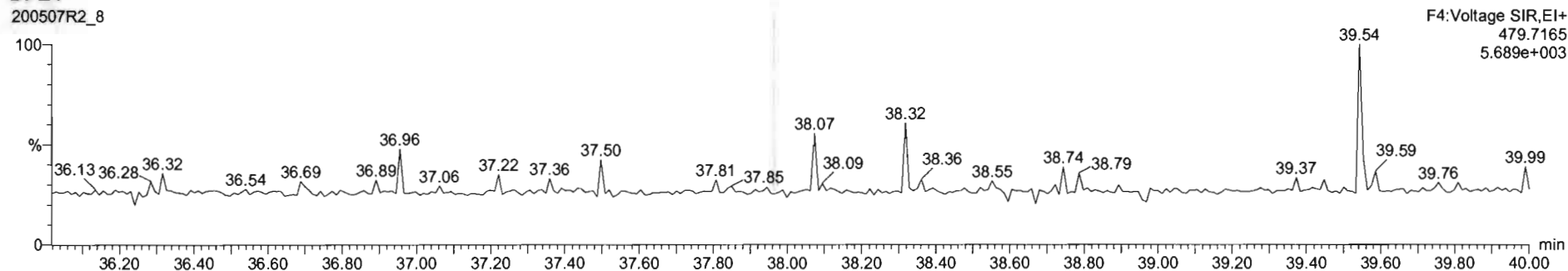
1,2,3,4,6,7,8-HpCDF



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



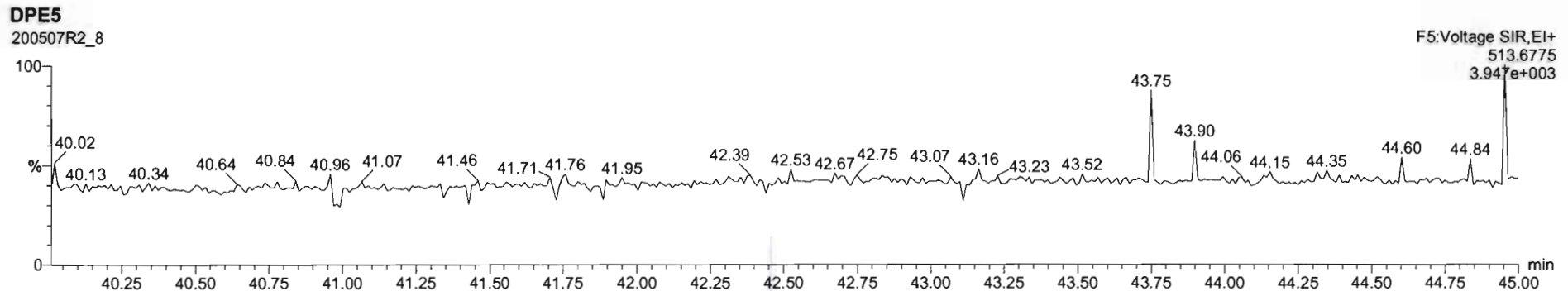
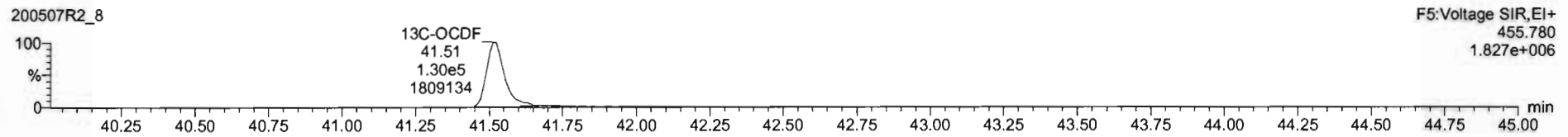
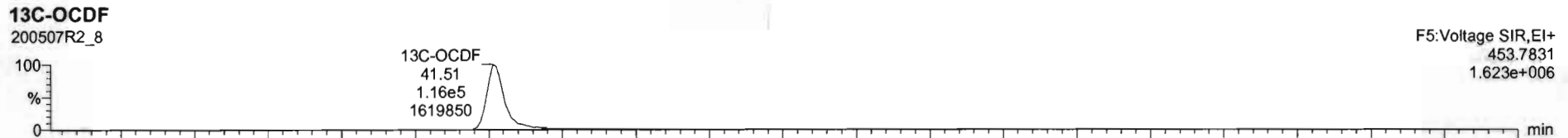
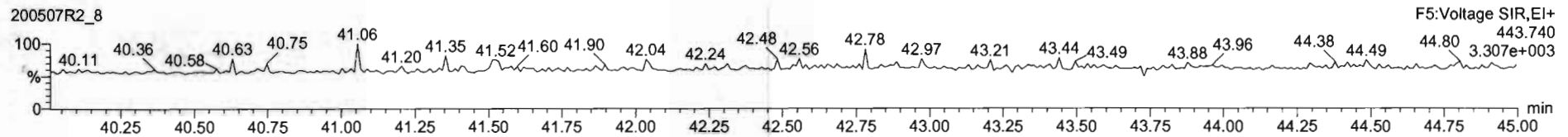
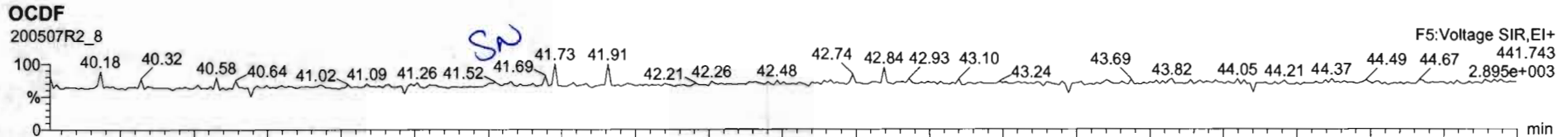
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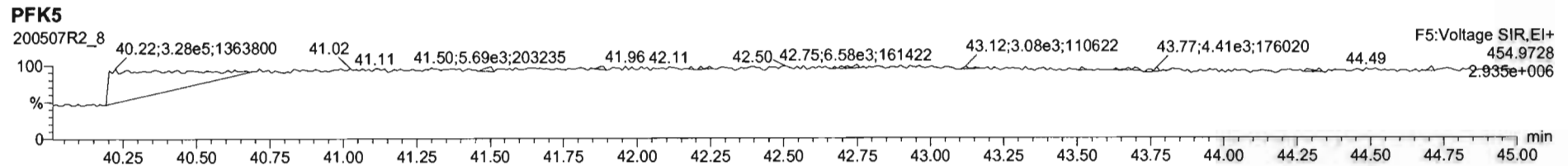
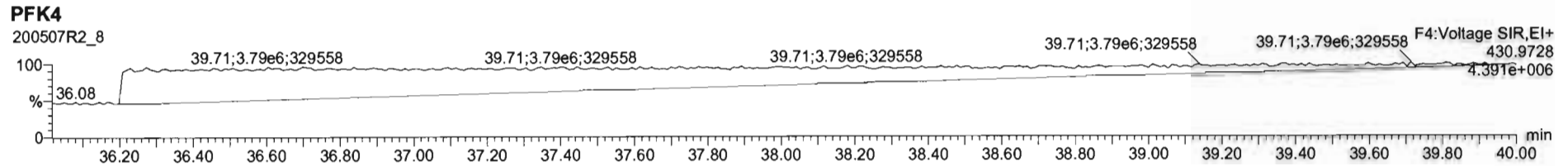
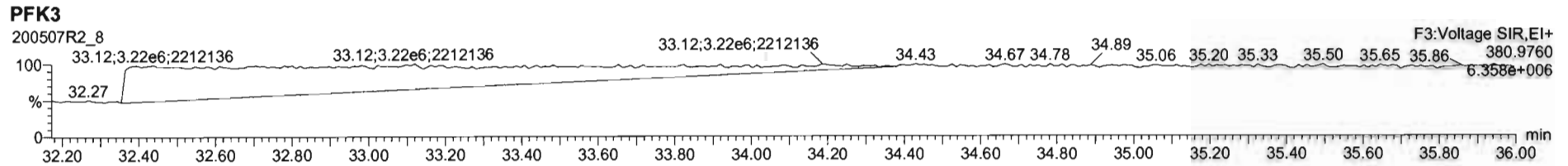
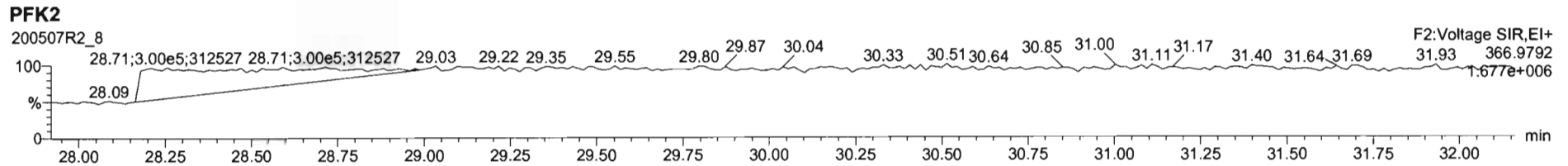
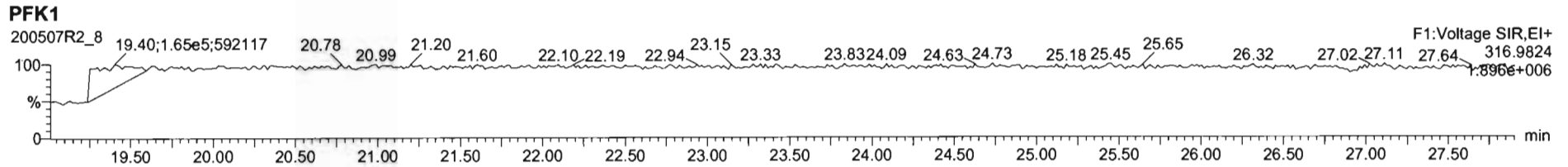
Name: 200507R2_8, Date: 07-May-2020, Time: 19:56:35, ID: 2000952-08 PDI-160SC-A-03-04-200423 11.13, Description: PDI-160SC-A-03-04-200423



Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_8, Date: 07-May-2020, Time: 19:56:35, ID: 2000952-08 PDI-160SC-A-03-04-200423 11.13, Description: PDI-160SC-A-03-04-200423



Dataset: U:\VG12.PRO\Results\200507R2\200507R2-9.qld

Last Altered: Friday, May 08, 2020 2:04:18 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 2:05:48 PM Pacific Daylight Time

GRB 05/08/2020

CT 05/14/2020

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

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

Name: 200507R2_9, Date: 07-May-2020, Time: 20:42:46, ID: 2000952-09 PDI-160SC-A-04-05-200423 12.83, Description: PDI-160SC-A-04-05-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.098	26.006		1.001				0.0702	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.098	31.116		1.001				0.0759	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.098	34.473		1.000				0.0758	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.098	34.558		1.000				0.0799	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.098	34.845		1.000				0.0965	
6	6 1,2,3,4,6,7,8-HpCDD	6.01e2	0.96	NO	0.898	10.098	38.340	38.36	1.000	1.001	0.42452		0.239	0.425
7	7 OCDD	3.91e3	0.84	NO	0.933	10.098	41.343	41.35	1.000	1.000	3.6937		0.148	3.69
8	8 2,3,7,8-TCDF			NO	0.787	10.098	25.057		1.001				0.0388	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.098	29.788		1.001				0.0370	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.098	30.805		1.001				0.0344	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.098	33.600		1.000				0.0293	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.098	33.727		1.000				0.0291	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.098	34.326		1.001				0.0311	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.098	35.187		1.000				0.0556	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.098	36.960		1.001				0.0425	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.098	38.925		1.000				0.0737	
17	17 OCDF			NO	0.802	10.098	41.513		1.000				0.148	
18	18 13C-2,3,7,8-TCDD	9.51e5	0.74	NO	1.16	10.098	25.969	25.98	1.026	1.027	197.44	99.7	0.343	
19	19 13C-1,2,3,7,8-PeCDD	6.63e5	0.65	NO	0.847	10.098	31.049	31.09	1.227	1.229	188.23	95.0	0.450	
20	20 13C-1,2,3,4,7,8-HxCDD	4.63e5	1.29	NO	0.750	10.098	34.473	34.46	1.014	1.014	207.63	105	0.739	
21	21 13C-1,2,3,6,7,8-HxCDD	5.79e5	1.27	NO	0.963	10.098	34.585	34.56	1.017	1.017	202.10	102	0.575	
22	22 13C-1,2,3,7,8,9-HxCDD	4.91e5	1.28	NO	0.838	10.098	34.854	34.83	1.025	1.025	197.06	99.5	0.661	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.12e5	1.12	NO	0.641	10.098	38.342	38.33	1.128	1.128	163.76	82.7	0.936	
24	24 13C-OCDD	4.49e5	0.89	NO	0.586	10.098	41.333	41.34	1.216	1.216	257.59	65.0	0.543	
25	25 13C-2,3,7,8-TCDF	1.20e6	0.78	NO	1.03	10.098	25.030	25.03	0.989	0.989	187.56	94.7	0.540	
26	26 13C-1,2,3,7,8-PeCDF	1.02e6	1.59	NO	0.845	10.098	29.741	29.77	1.176	1.177	195.03	98.5	0.908	
27	27 13C-2,3,4,7,8-PeCDF	9.74e5	1.58	NO	0.814	10.098	30.731	30.77	1.215	1.216	193.22	97.6	0.942	
28	28 13C-1,2,3,4,7,8-HxCDF	6.05e5	0.50	NO	1.00	10.098	33.613	33.60	0.989	0.988	202.25	102	0.745	
29	29 13C-1,2,3,6,7,8-HxCDF	7.21e5	0.51	NO	1.14	10.098	33.736	33.72	0.992	0.992	213.23	108	0.658	
30	30 13C-2,3,4,6,7,8-HxCDF	6.20e5	0.51	NO	1.02	10.098	34.303	34.29	1.009	1.009	203.79	103	0.732	
31	31 13C-1,2,3,7,8,9-HxCDF	4.50e5	0.50	NO	0.845	10.098	35.194	35.19	1.035	1.035	178.99	90.4	0.886	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-9.qld

Last Altered: Friday, May 08, 2020 2:04:18 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 2:05:48 PM Pacific Daylight Time

Name: 200507R2_9, Date: 07-May-2020, Time: 20:42:46, ID: 2000952-09 PDI-160SC-A-04-05-200423 12.83, Description: PDI-160SC-A-04-05-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPG
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.29e5	0.43	NO	0.771	10.098	36.924	36.92	1.086	1.086	186.97	94.4	1.02	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.16e5	0.42	NO	0.482	10.098	38.933	38.92	1.145	1.145	150.27	75.9	1.63	
34	34 13C-OCDF	4.26e5	0.86	NO	0.669	10.098	41.503	41.51	1.221	1.221	214.18	54.1	0.511	
35	35 37Cl-2,3,7,8-TCDD	3.60e5			1.10	10.098	25.999	25.99	1.028	1.027	78.825	99.5	0.0958	
36	36 13C-1,2,3,4-TCDD	8.23e5	0.80	NO	1.00	10.098	25.350	25.30	1.000	1.000	198.05	100	0.397	
37	37 13C-1,2,3,4-TCDF	1.23e6	0.78	NO	1.00	10.098	23.560	23.50	1.000	1.000	198.05	100	0.558	
38	38 13C-1,2,3,4,6,9-HxCDF	5.89e5	0.51	NO	1.00	10.098	34.000	33.99	1.000	1.000	198.05	100	0.748	
39	39 Total Tetra-Dioxins				0.947	10.098	24.620		0.000		0.25852		0.0702	0.259
40	40 Total Penta-Dioxins				0.942	10.098	29.960		0.000		0.056880		0.0403	0.0569
41	41 Total Hexa-Dioxins				0.915	10.098	33.635		0.000		0.72352		0.0877	0.724
42	42 Total Hepta-Dioxins				0.898	10.098	37.640		0.000		1.4918		0.239	1.49
43	43 Total Tetra-Furans				0.787	10.098	23.610		0.000				0.0136	
44	44 1st Func. Penta-Furans				0.910	10.098	27.090		0.000				0.00965	
45	45 Total Penta-Furans				0.910	10.098	29.275		0.000				0.0133	
46	46 Total Hexa-Furans				0.922	10.098	33.555		0.000				0.0209	
47	47 Total Hepta-Furans				0.871	10.098	37.835		0.000				0.0289	

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Dataset: U:\VG12.PRO\Results\200507R2\200507R2-9.qld

Last Altered: Friday, May 08, 2020 2:04:18 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 2:05:48 PM Pacific Daylight Time

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

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

Name: 200507R2_9, Date: 07-May-2020, Time: 20:42:46, ID: 2000952-09 PDI-160SC-A-04-05-200423 12.83, Description: PDI-160SC-A-04-05-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.68	5.010e3	8.647e3	4.664e2	7.103e2	0.66	NO	1.177e3	0.25852	0.25852	0.0702

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.87	2.241e3	3.446e3	6.493e1	1.145e2	0.57	NO	1.794e2	0.056880	0.056880	0.0403

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	1.132e4	1.092e4	6.884e2	5.850e2	1.18	NO	1.273e3	0.53961	0.53961	0.0877
2	Total Hexa-Dioxins	33.81	4.698e3	4.159e3	2.428e2	1.912e2	1.27	NO	4.340e2	0.18391	0.18391	0.0877

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	9.853e3	1.123e4	7.594e2	7.527e2	1.01	NO	1.512e3	1.0673	1.0673	0.239
2	1,2,3,4,6,7,8-HpCDD	38.36	4.670e3	5.573e3	2.952e2	3.062e2	0.96	NO	6.014e2	0.42452	0.42452	0.239

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\200507R2\200507R2-9.qld

Last Altered: Friday, May 08, 2020 2:04:18 PM Pacific Daylight Time

Printed: Friday, May 08, 2020 2:05:48 PM Pacific Daylight Time

Name: 200507R2_9, Date: 07-May-2020, Time: 20:42:46, ID: 2000952-09 PDI-160SC-A-04-05-200423 12.83, Description: PDI-160SC-A-04-05-200423

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

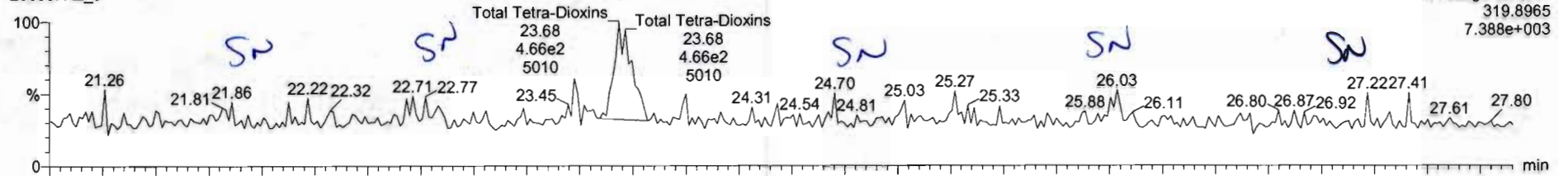
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

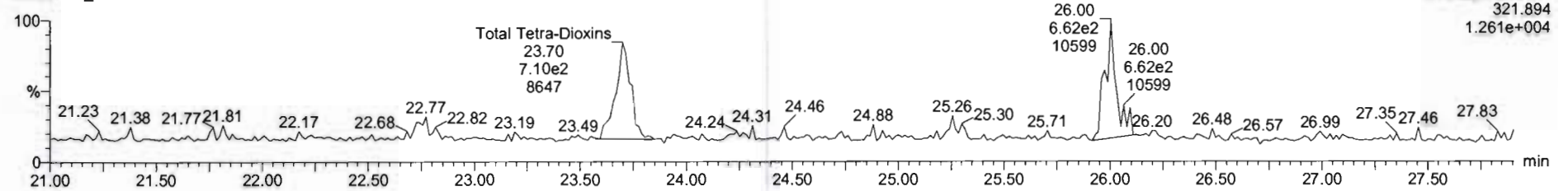
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2,3,7,8-TCDD

200507R2_9

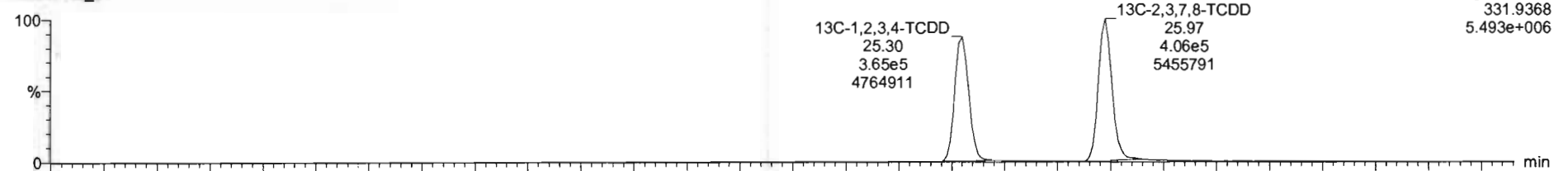


200507R2_9

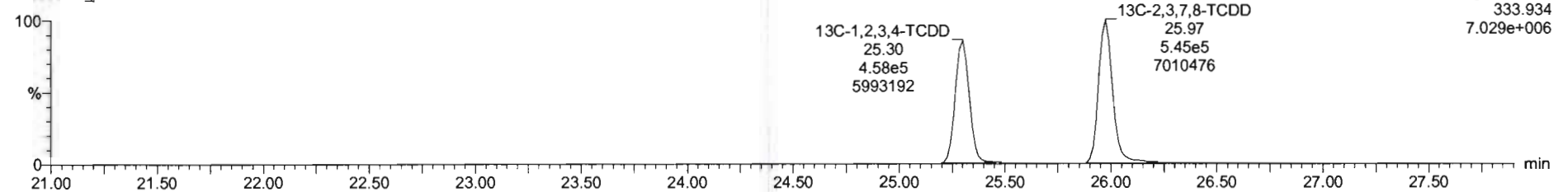


13C-2,3,7,8-TCDD

200507R2_9



200507R2_9

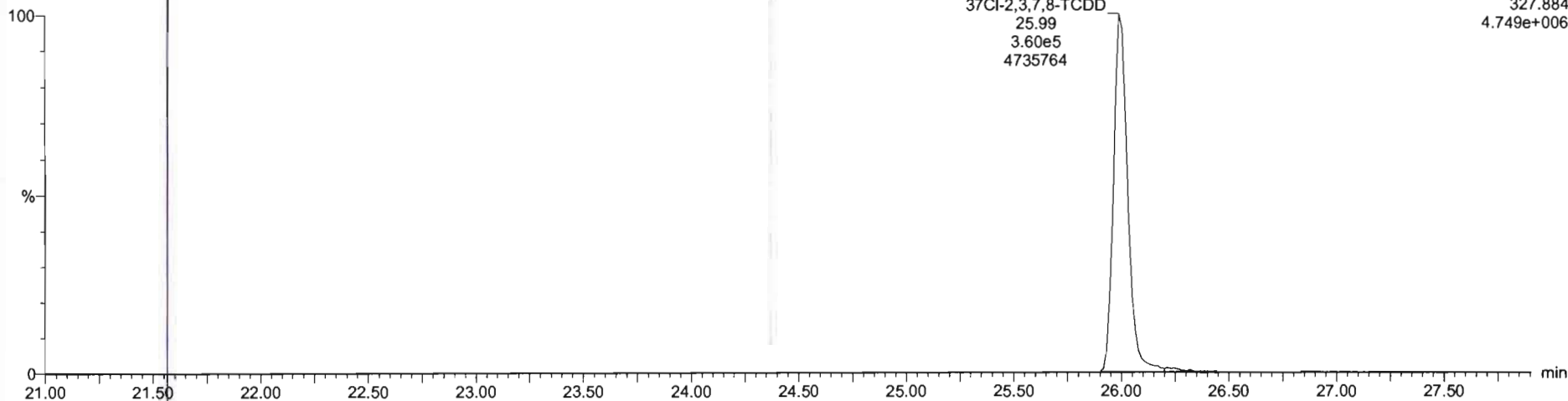


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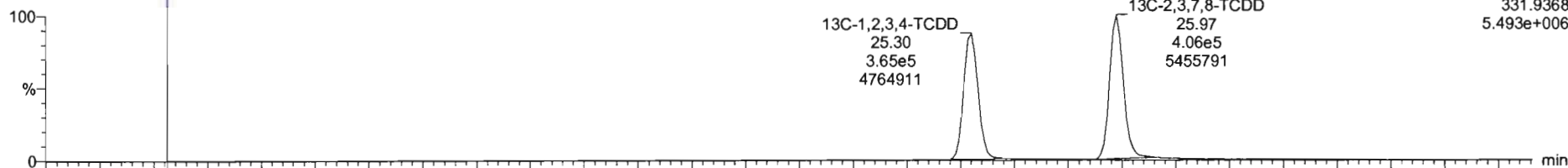
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Name: 200507R2_9, Date: 07-May-2020, Time: 20:42:46, ID: 2000952-09 PDI-160SC-A-04-05-200423 12.83, Description: PDI-160SC-A-04-05-200423

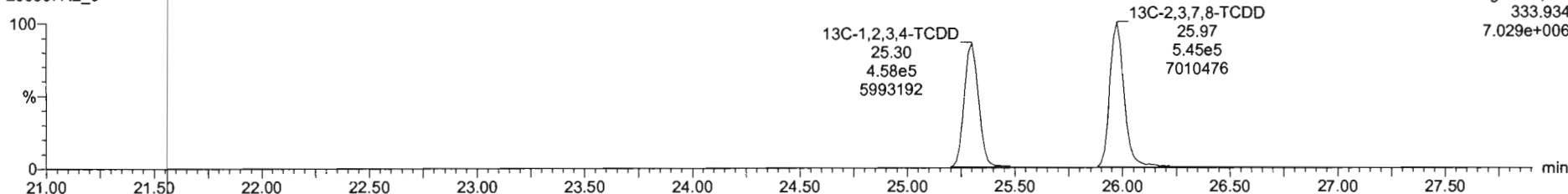
37Cl-2,3,7,8-TCDD
200507R2_9



13C-1,2,3,4-TCDD
200507R2_9



200507R2_9



Dataset: Untitled

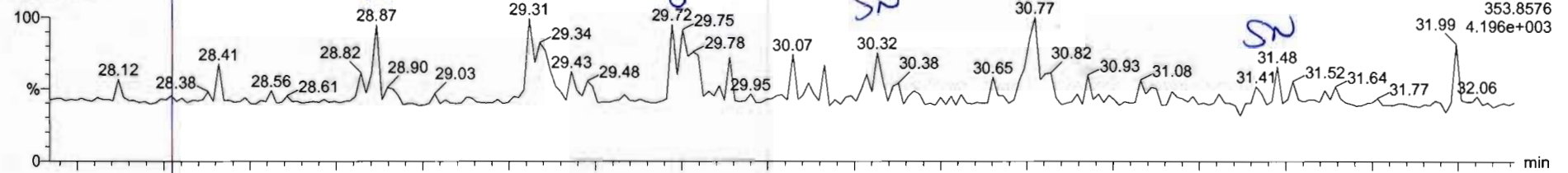
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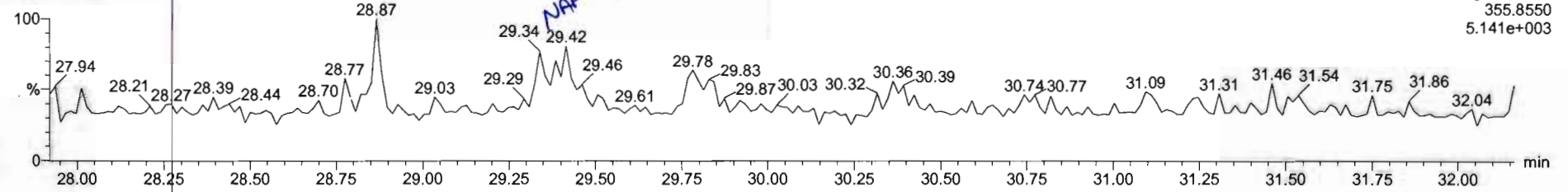
1,2,3,7,8-PeCDD

200507R2_9



F2:Voltage SIR,EI+
353.8576
4.196e+003

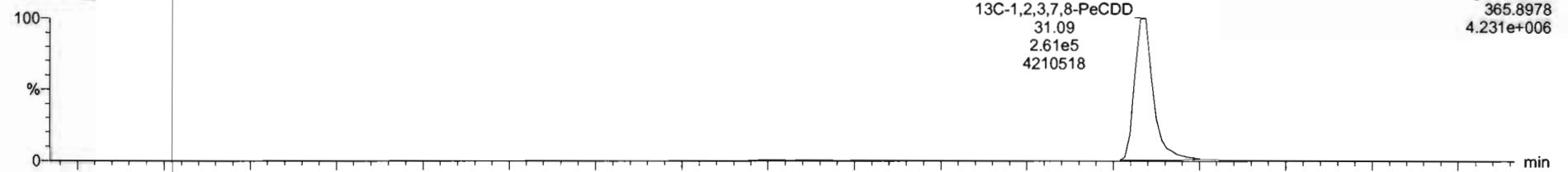
200507R2_9



F2:Voltage SIR,EI+
355.8550
5.141e+003

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

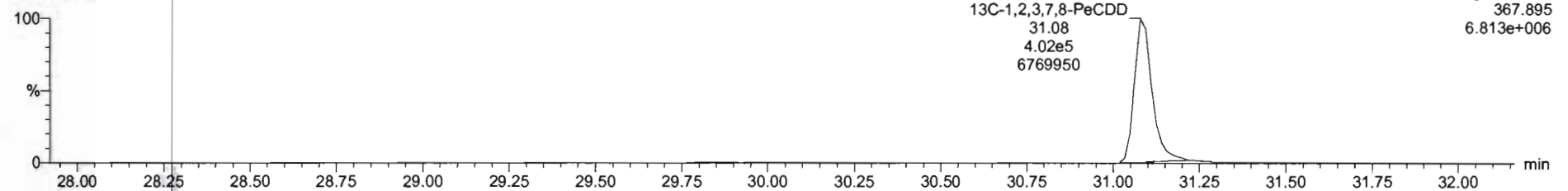
200507R2_9



13C-1,2,3,7,8-PeCDD
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F2:Voltage SIR,EI+
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4.231e+006

200507R2_9

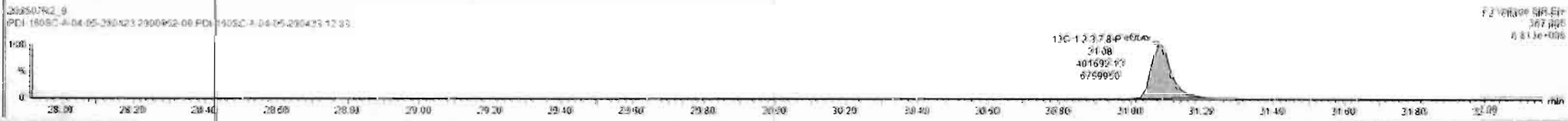
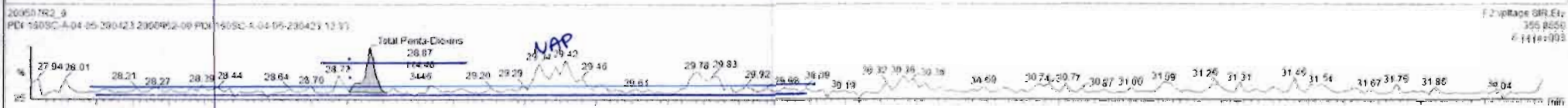
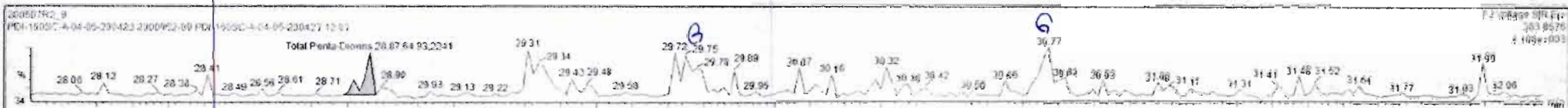


13C-1,2,3,7,8-PeCDD
31.08
4.02e5
6769950

F2:Voltage SIR,EI+
367.895
6.813e+006

Name	Resp	RA	nlv	RHF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.096			0.259		0.0702	0.259
40 Total Penta-Dioxins				0.6425	10.096			0.0569		0.0403	0.0569
41 Total Hexa-Dioxins				0.9145	10.096			0.526		0.0877	0.526

Name	RT	ml Resp	nlv Resp	RA	nlv	EMPC	Conc.
1 Total Penta-Dioxins	28.87	6.62e1	1.145e2	0.57	NO	0.056586	0.056280



Custom Reporting: Select reports to generate.

200507R2.9

CAP NUM

2:02 PM

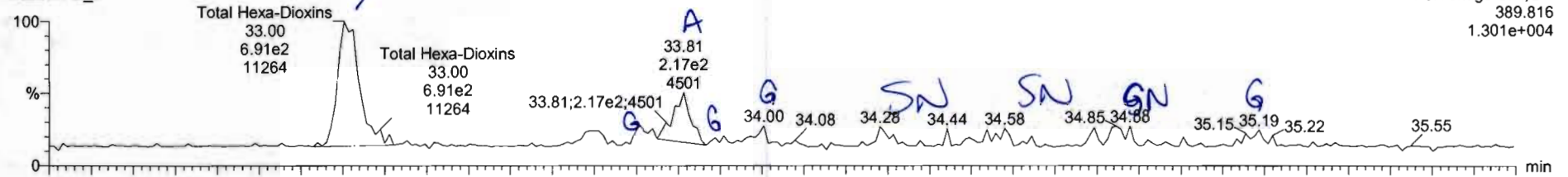
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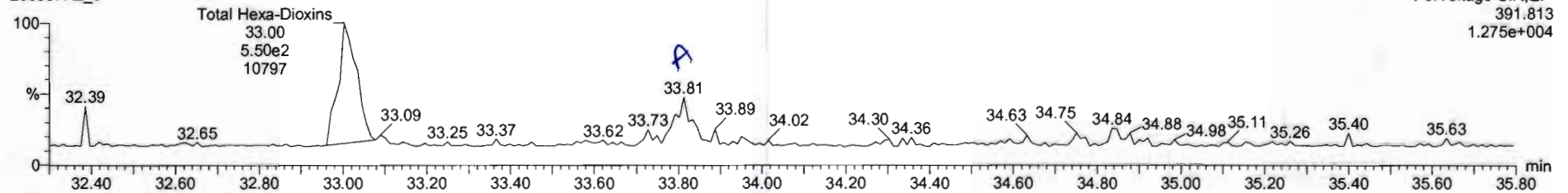
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1,2,3,4,7,8-HxCDD

200507R2_9

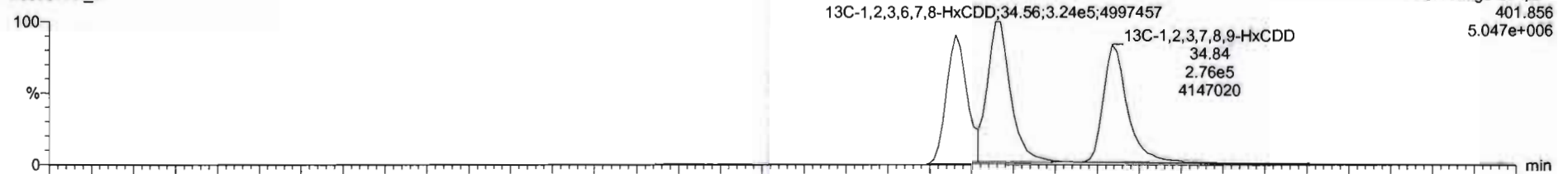


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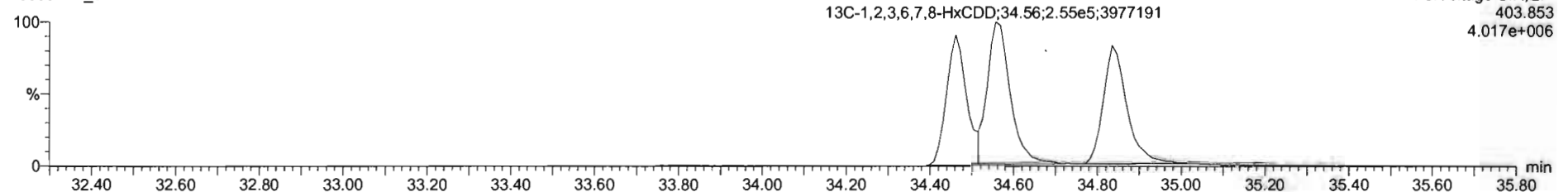


13C-1,2,3,4,7,8-HxCDD

200507R2_9

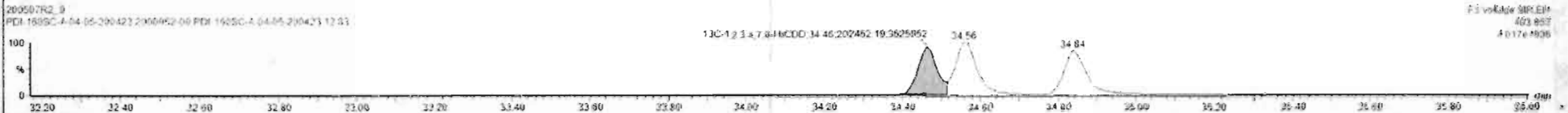
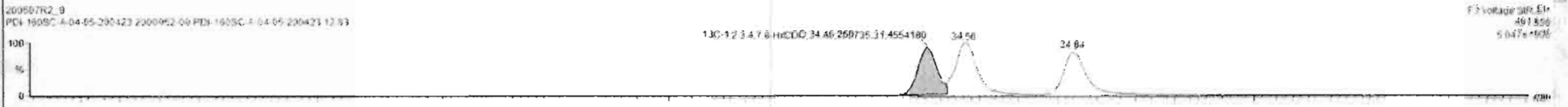
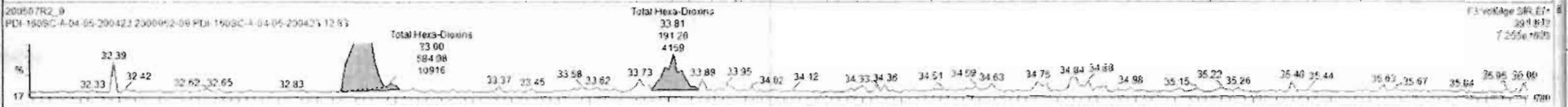
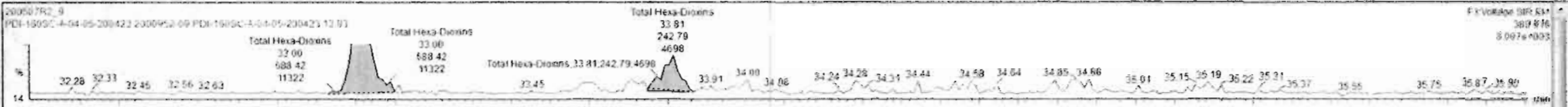


200507R2_9



Name	Resp	RA	rvy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
38 Total Tetra Dioxins				0.9475	10.095			0.250	0.0702	0.259	
40 Total Penta Dioxins				0.6425	10.095			0.0569	0.0403	0.0569	
41 Total Hexa Dioxins				0.9145	10.095			0.724	0.0877	0.724	

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Hexa Dioxins	33.81	2.428e2	1.012e2	1.27	ND	0.18391	0.18391
2 Total Hexa Dioxins	33.00	6.680e2	5.850e2	1.18	ND	0.53961	0.53961



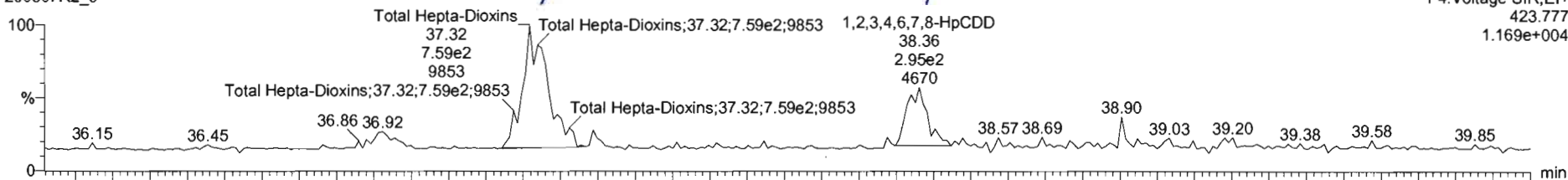
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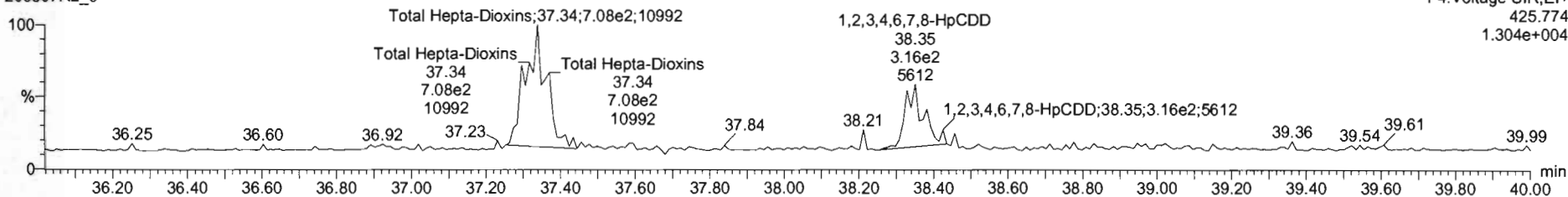
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1,2,3,4,6,7,8-HpCDD

200507R2_9

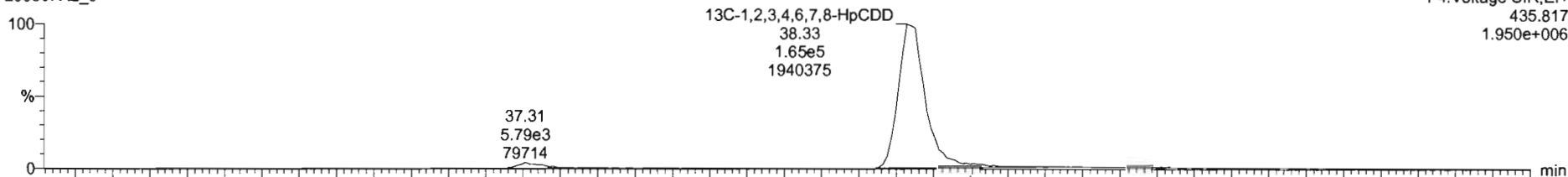


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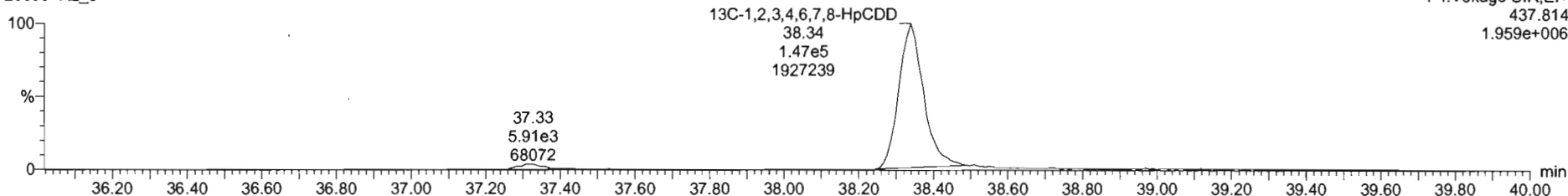


13C-1,2,3,4,6,7,8-HpCDD

200507R2_9

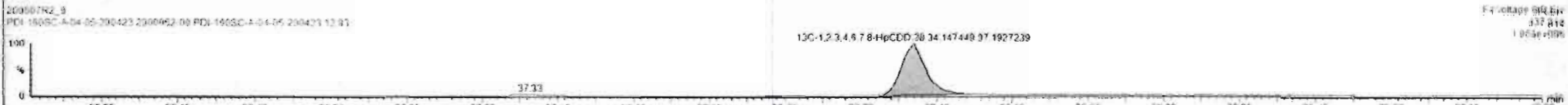
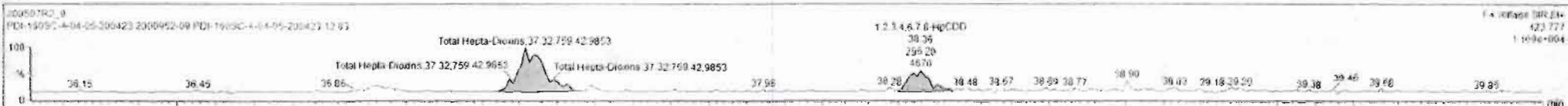


200507R2_9



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.8975	10.096			1.43	0.239	1.49	
43 Total Tetra-Furans				0.7871	10.096				0.0136		
44 1st Func. Penta-Furans				0.9102	10.096				0.00965		

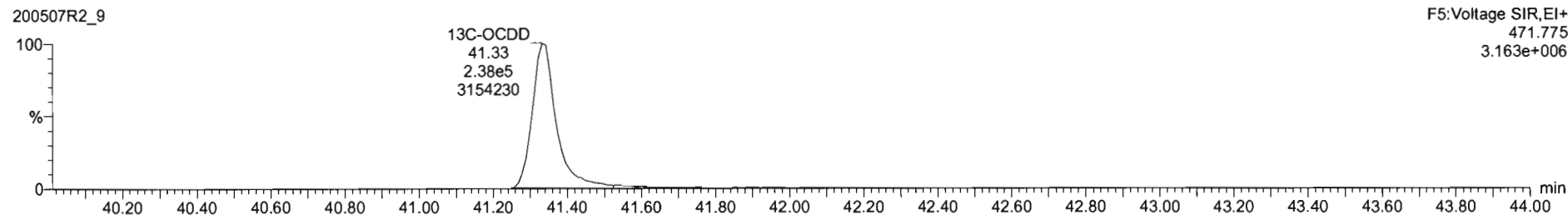
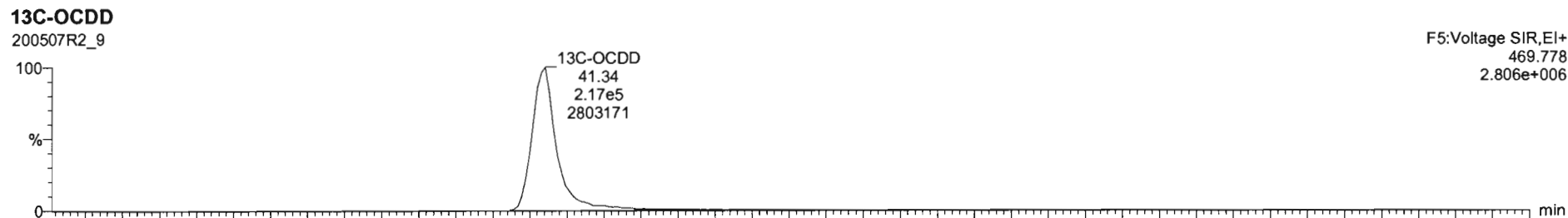
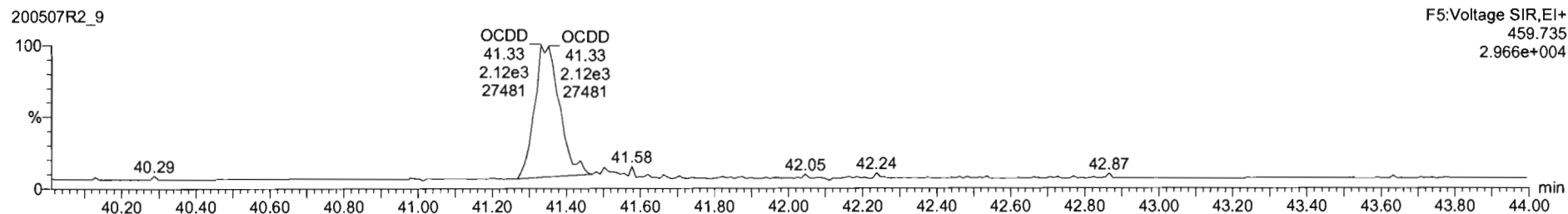
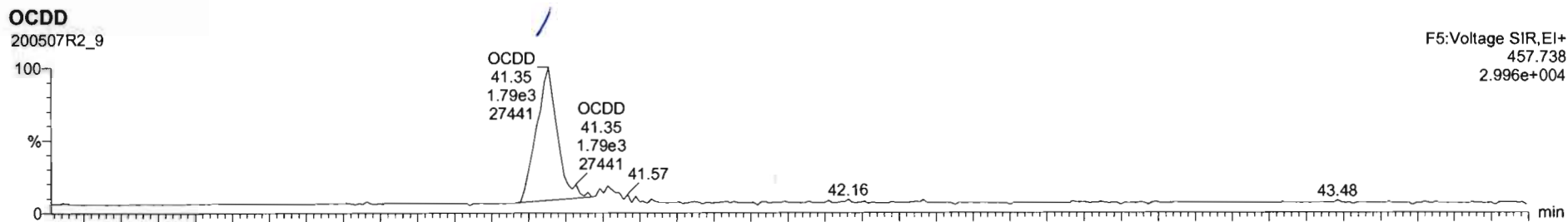
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDD	38.36	2.912e2	3.062e2	0.96	NO	0.42452	0.42452
2 Total Hepta-Dioxins	37.32	7.554e2	7.527e2	1.01	NO	1.0673	1.0673



Dataset: Untitled

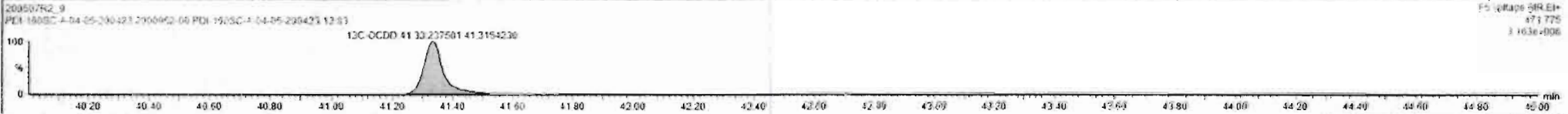
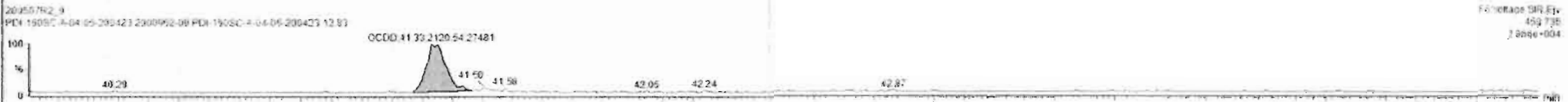
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#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPL
7	OCDD	3.91e3	0.84	NO	0.9335	10.096	41.35	1.000	3.69		0.148	3.69
8	2,3,7,8-TCDF			NO	0.7871	10.096					0.0063	
9	1,2,3,7,8-PeCDF			NO	0.9102	10.096					0.0370	

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



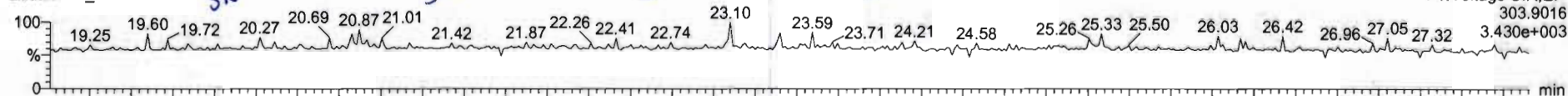
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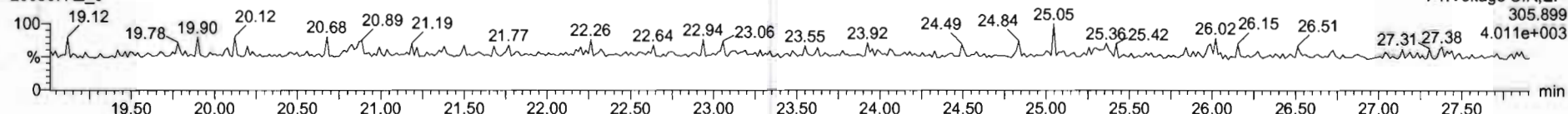
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2,3,7,8-TCDF

200507R2_9

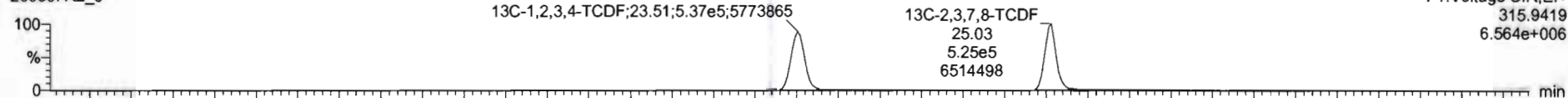


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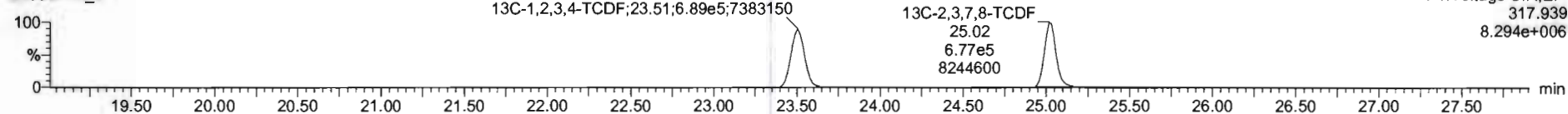


13C-2,3,7,8-TCDF

200507R2_9

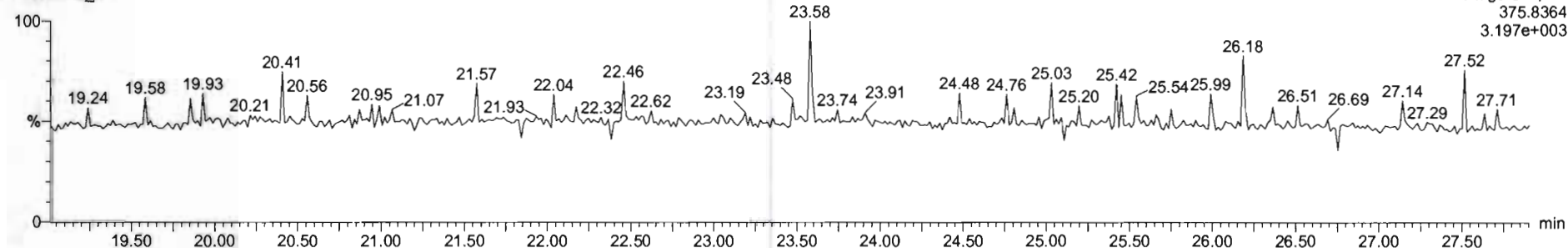


200507R2_9



DPE1

200507R2_9



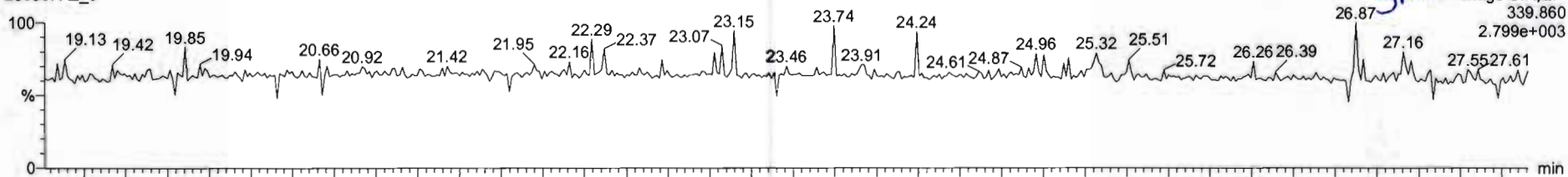
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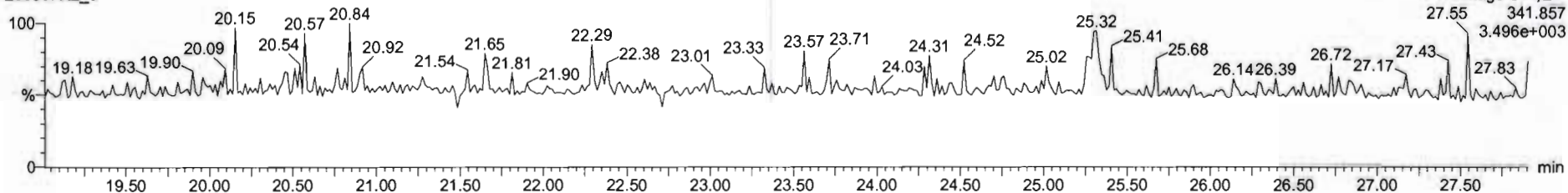
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1st Func. Penta-Furans

200507R2_9

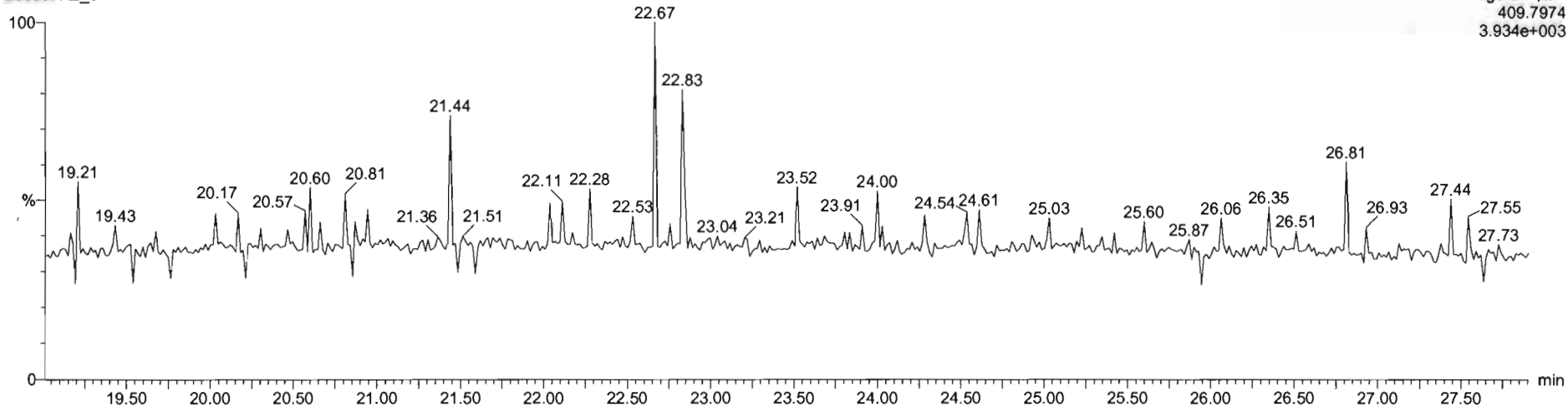


200507R2_9



DPE6

200507R2_9

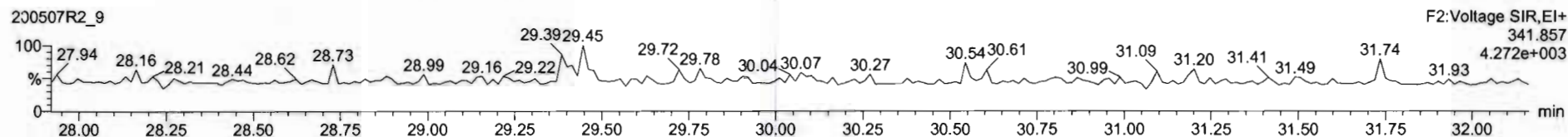
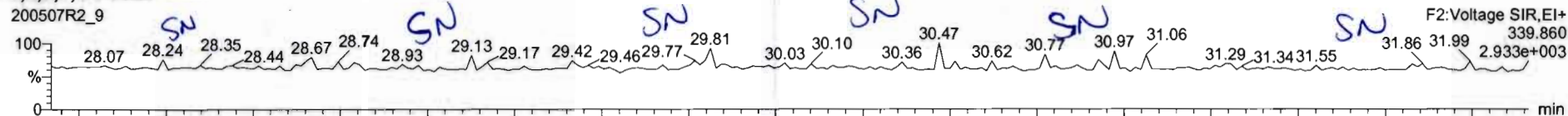


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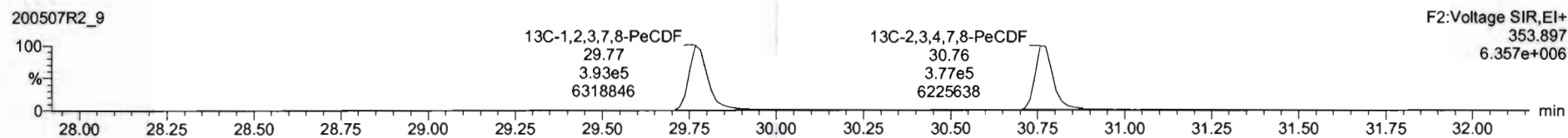
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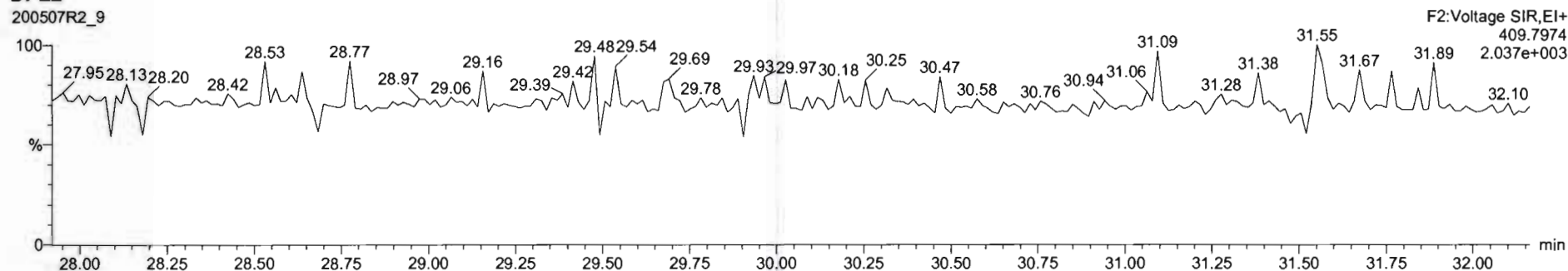
1,2,3,7,8-PeCDF



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



DPE2

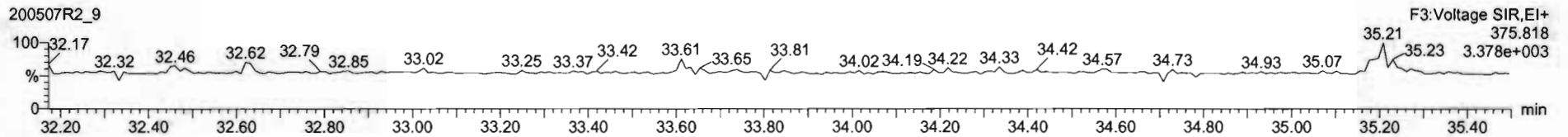


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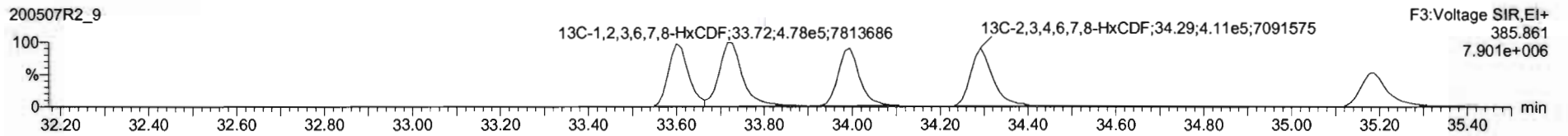
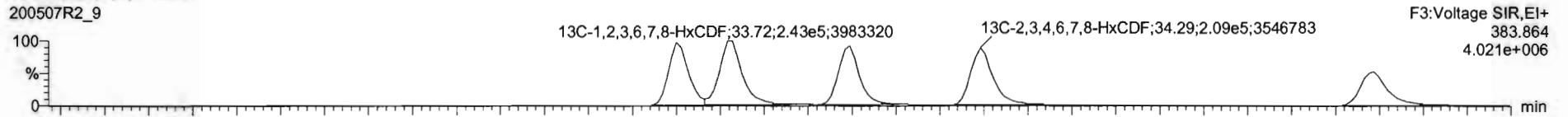
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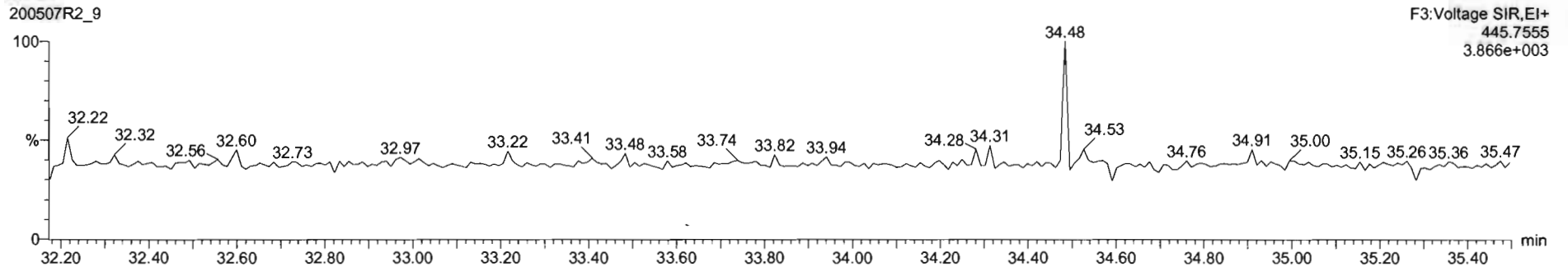
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13C-1,2,3,4,7,8-HxCDF



DPE3



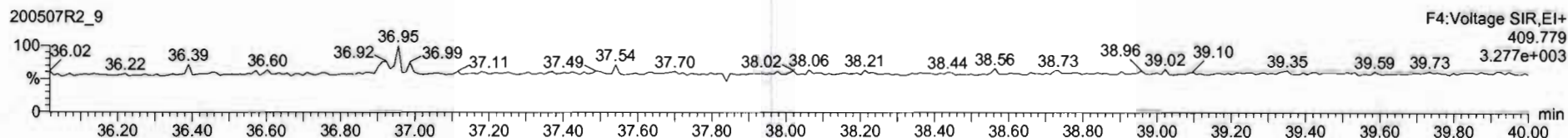
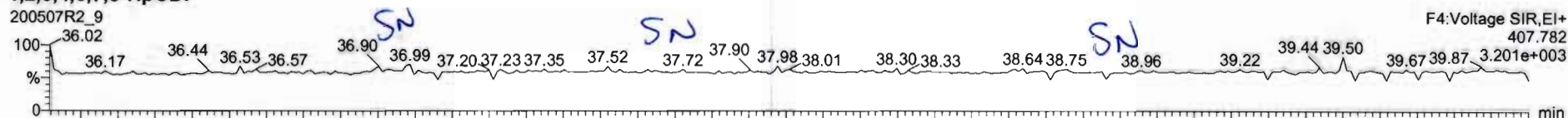
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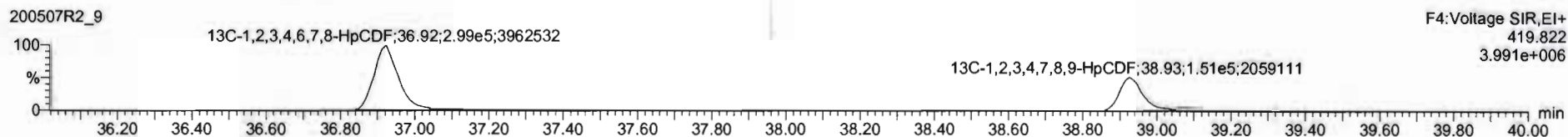
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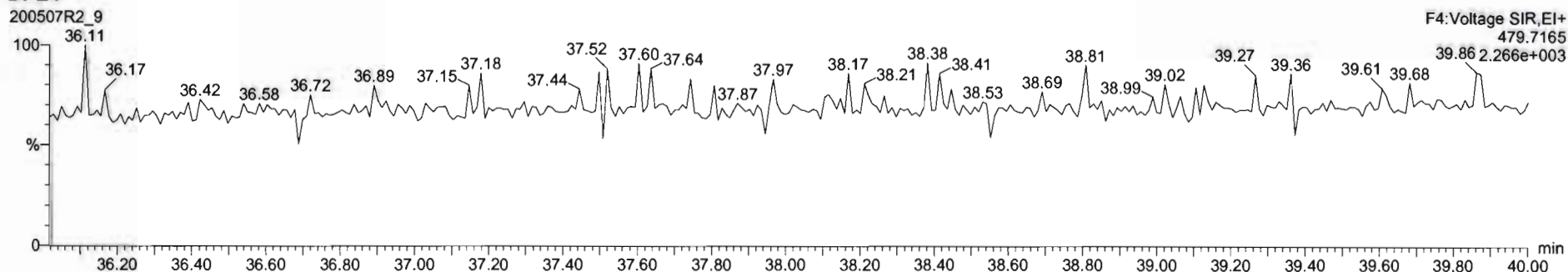
1,2,3,4,6,7,8-HpCDF



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



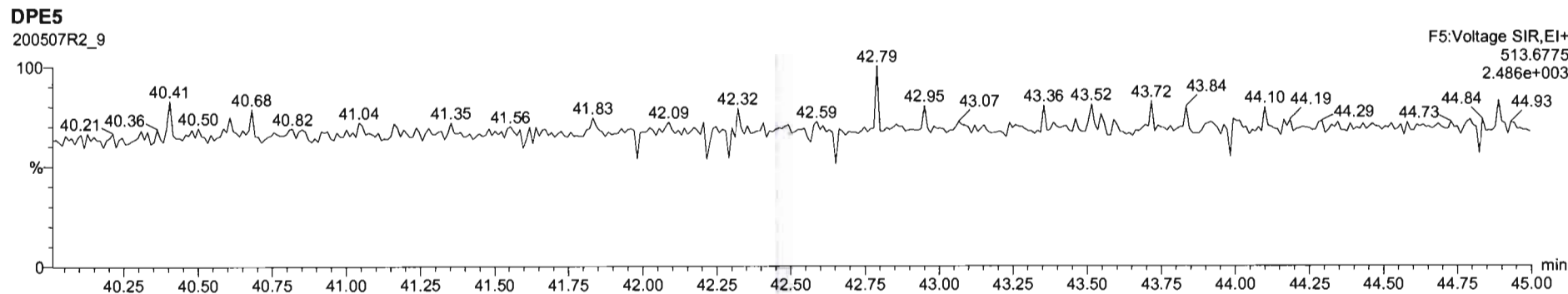
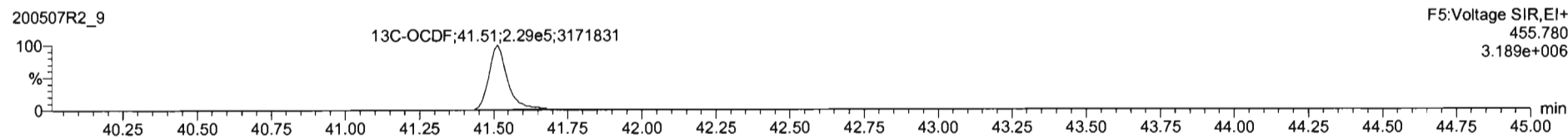
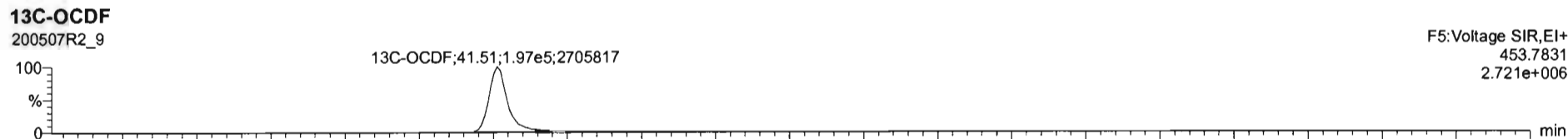
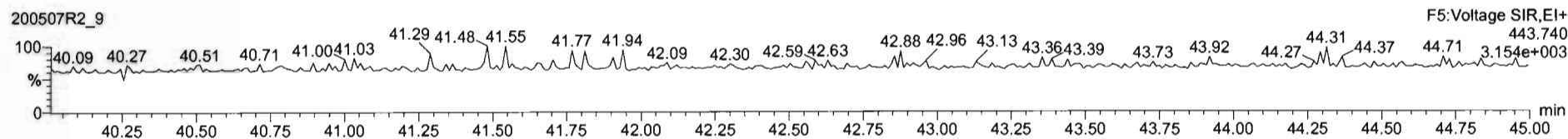
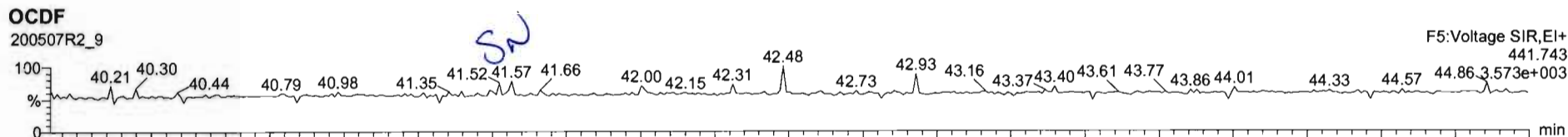
DPE4



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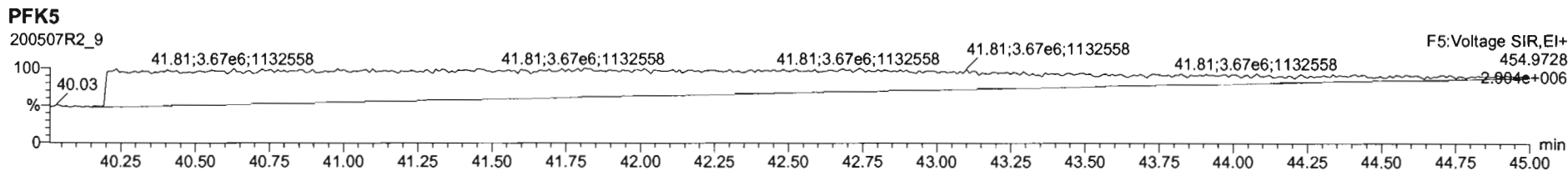
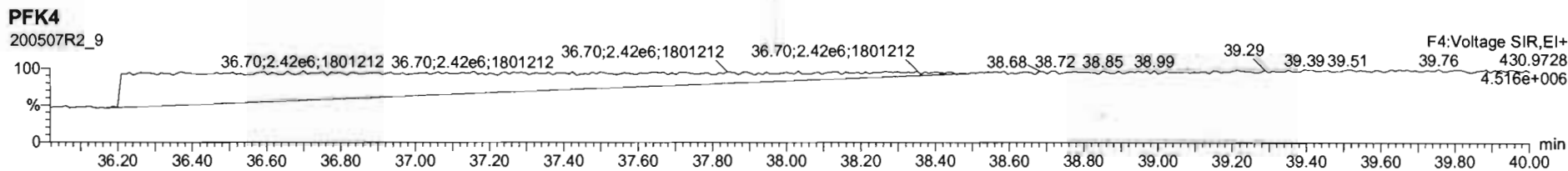
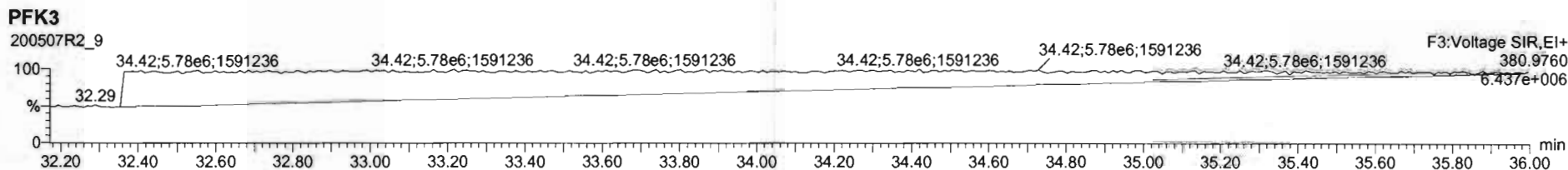
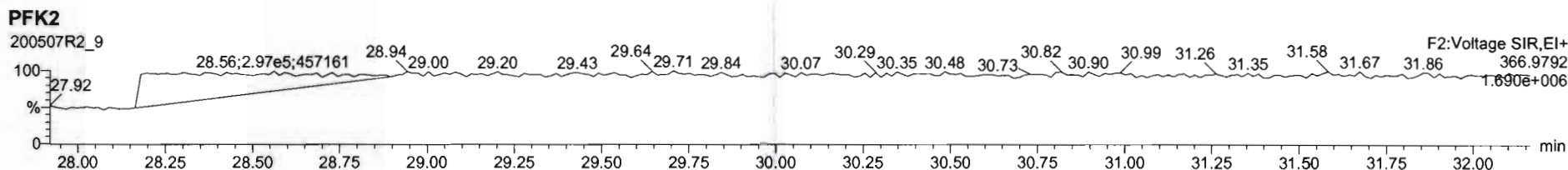
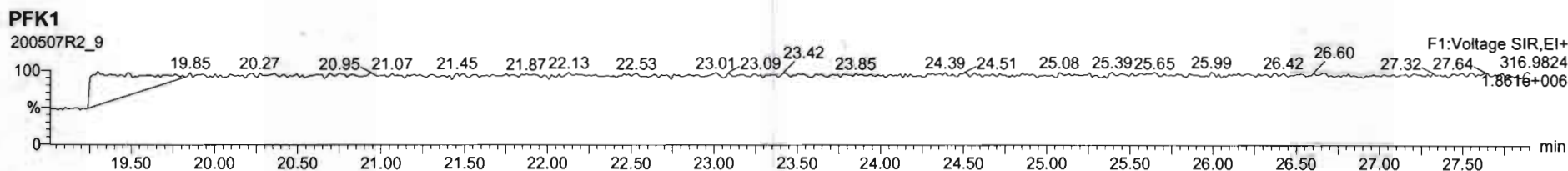
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GRB 05/08/2020

CT 05/14/2020

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Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.088	25.991		1.001				0.0756	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.088	31.101		1.001				0.0936	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.088	34.462		1.000				0.0751	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.088	34.559		1.000				0.0794	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.088	34.845		1.000				0.0941	
6	6 1,2,3,4,6,7,8-HpCDD	1.18e3	0.97	NO	0.898	10.088	38.340	38.33	1.000	1.000	0.88588		0.220	0.886
7	7 OCDD	7.26e3	0.91	NO	0.933	10.088	41.322	41.33	1.000	1.000	7.4365		0.204	7.44
8	8 2,3,7,8-TCDF			NO	0.787	10.088	25.042		1.001				0.0479	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.088	29.788		1.001				0.0385	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.088	30.789		1.001				0.0356	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.088	33.589		1.000				0.0433	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.088	33.727		1.000				0.0428	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.088	34.316		1.001				0.0461	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.088	35.176		1.000				0.0834	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.088	36.939		1.001				0.0418	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.088	38.915		1.000				0.0666	
17	17 OCDF			NO	0.802	10.088	41.503		1.000				0.193	
18	18 13C-2,3,7,8-TCDD	8.46e5	0.77	NO	1.16	10.088	25.954	25.96	1.026	1.027	185.57	93.6	0.363	
19	19 13C-1,2,3,7,8-PeCDD	5.95e5	0.62	NO	0.847	10.088	31.031	31.08	1.227	1.229	178.63	90.1	0.625	
20	20 13C-1,2,3,4,7,8-HxCDD	4.03e5	1.27	NO	0.750	10.088	34.463	34.45	1.014	1.014	188.23	94.9	0.918	
21	21 13C-1,2,3,6,7,8-HxCDD	5.10e5	1.29	NO	0.963	10.088	34.575	34.56	1.017	1.017	185.66	93.6	0.715	
22	22 13C-1,2,3,7,8,9-HxCDD	4.43e5	1.25	NO	0.838	10.088	34.844	34.83	1.025	1.025	185.21	93.4	0.822	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.94e5	1.01	NO	0.641	10.088	38.331	38.33	1.128	1.128	160.57	81.0	0.902	
24	24 13C-OCDD	4.15e5	0.89	NO	0.586	10.088	41.321	41.32	1.216	1.216	247.81	62.5	0.719	
25	25 13C-2,3,7,8-TCDF	1.05e6	0.77	NO	1.03	10.088	25.015	25.02	0.989	0.989	174.25	87.9	0.563	
26	26 13C-1,2,3,7,8-PeCDF	8.92e5	1.56	NO	0.845	10.088	29.724	29.77	1.176	1.177	181.67	91.6	0.914	
27	27 13C-2,3,4,7,8-PeCDF	8.57e5	1.60	NO	0.814	10.088	30.712	30.76	1.215	1.216	181.18	91.4	0.949	
28	28 13C-1,2,3,4,7,8-HxCDF	5.38e5	0.51	NO	1.00	10.088	33.603	33.59	0.989	0.988	187.63	94.6	1.07	
29	29 13C-1,2,3,6,7,8-HxCDF	6.47e5	0.51	NO	1.14	10.088	33.726	33.72	0.992	0.992	199.51	101	0.943	
30	30 13C-2,3,4,6,7,8-HxCDF	5.59e5	0.52	NO	1.02	10.088	34.293	34.28	1.009	1.009	191.65	96.7	1.05	
31	31 13C-1,2,3,7,8,9-HxCDF	3.98e5	0.52	NO	0.845	10.088	35.184	35.18	1.035	1.035	165.20	83.3	1.27	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-10.qld

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Printed: Friday, May 08, 2020 2:12:14 PM Pacific Daylight Time

Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.86e5	0.41	NO	0.771	10.088	36.913	36.90	1.086	1.086	175.50	88.5	0.887	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.87e5	0.42	NO	0.482	10.088	38.922	38.92	1.145	1.145	135.89	68.5	1.42	
34	34 13C-OCDF	3.93e5	0.93	NO	0.669	10.088	41.491	41.50	1.221	1.221	205.95	51.9	0.387	
35	35 37Cl-2,3,7,8-TCDD	3.23e5			1.10	10.088	25.984	25.99	1.028	1.028	74.856	94.4	0.140	
36	36 13C-1,2,3,4-TCDD	7.79e5	0.79	NO	1.00	10.088	25.350	25.29	1.000	1.000	198.26	100	0.421	
37	37 13C-1,2,3,4-TCDF	1.15e6	0.79	NO	1.00	10.088	23.560	23.49	1.000	1.000	198.26	100	0.582	
38	38 13C-1,2,3,4,6,9-HxCDF	5.66e5	0.50	NO	1.00	10.088	34.000	33.98	1.000	1.000	198.26	100	1.07	
39	39 Total Tetra-Dioxins				0.947	10.088	24.620		0.000		0.19088		0.0756	0.191
40	40 Total Penta-Dioxins				0.942	10.088	29.960		0.000				0.0427	
41	41 Total Hexa-Dioxins				0.915	10.088	33.635		0.000		0.61990		0.0866	0.900
42	42 Total Hepta-Dioxins				0.898	10.088	37.640		0.000		2.2031		0.220	2.20
43	43 Total Tetra-Furans				0.787	10.088	23.610		0.000				0.0235	
44	44 1st Func. Penta-Furans				0.910	10.088	27.090		0.000				0.0113	
45	45 Total Penta-Furans				0.910	10.088	29.275		0.000				0.0136	
46	46 Total Hexa-Furans				0.922	10.088	33.555		0.000				0.0257	
47	47 Total Hepta-Furans				0.871	10.088	37.835		0.000				0.0273	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-10.qld

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

Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.67	3.650e3	7.092e3	3.239e2	4.475e2	0.72	NO	7.715e2	0.19088	0.19088	0.0756

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	1.491e4	1.017e4	7.383e2	5.539e2	1.33	NO	1.292e3	0.61990	0.61990	0.0866
2	Total Hexa-Dioxins	33.80	5.264e3	5.356e3	3.227e2	3.391e2	0.95	YES	0.000e0	0.00000	0.27965	0.0866

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	1.267e4	1.169e4	8.626e2	8.908e2	0.97	NO	1.753e3	1.3172	1.3172	0.220
2	1,2,3,4,6,7,8-HpCDD	38.33	7.670e3	8.602e3	5.796e2	5.997e2	0.97	NO	1.179e3	0.88588	0.88588	0.220

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\200507R2\200507R2-10.qld

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Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

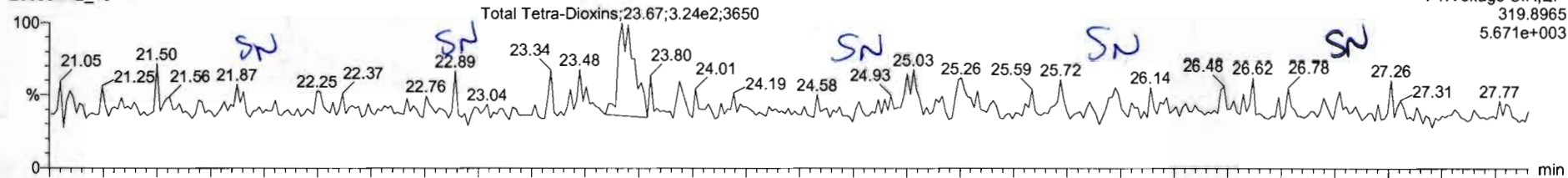
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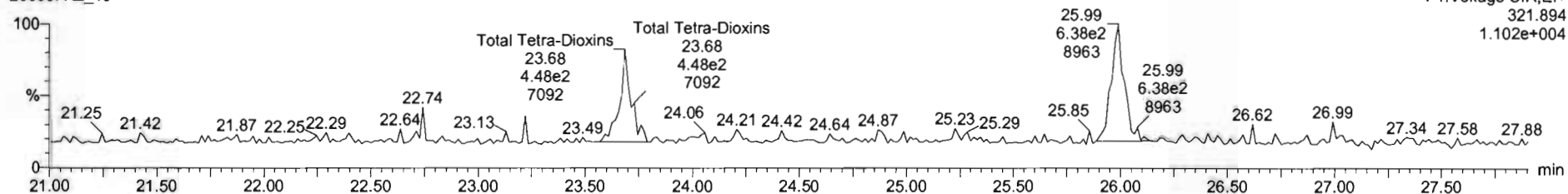
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2,3,7,8-TCDD

200507R2_10

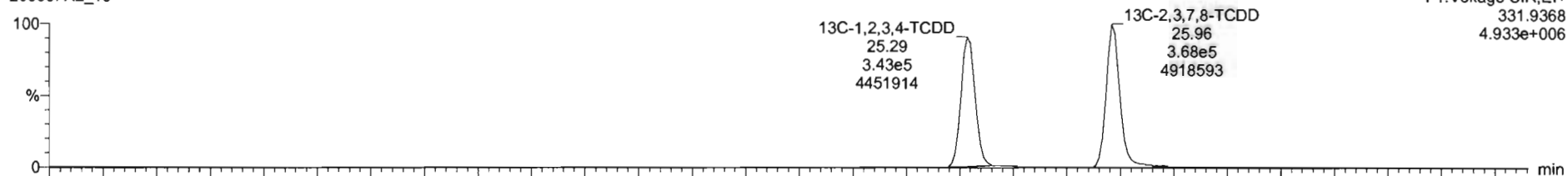


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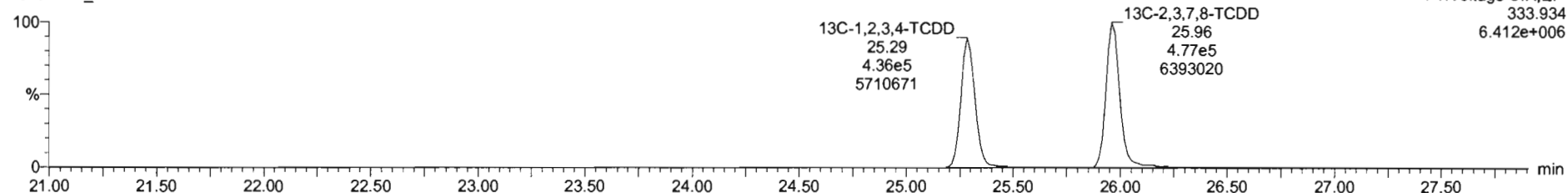


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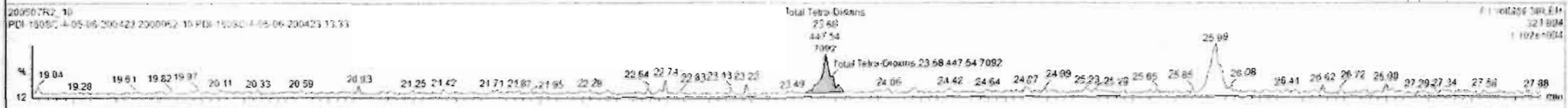
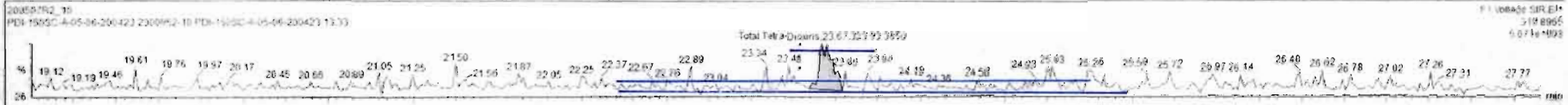


200507R2_10



SI	Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.086			0.191		0.0756	0.191
40	Total Penta-Dioxins				0.9425	10.088					0.0427	
41	Total Hexa-Dioxins				0.9145	10.008			0.620		0.0866	0.823

SI	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	23.67	3.229e2	4.475e2	0.72	NO	0.19068	0.19088

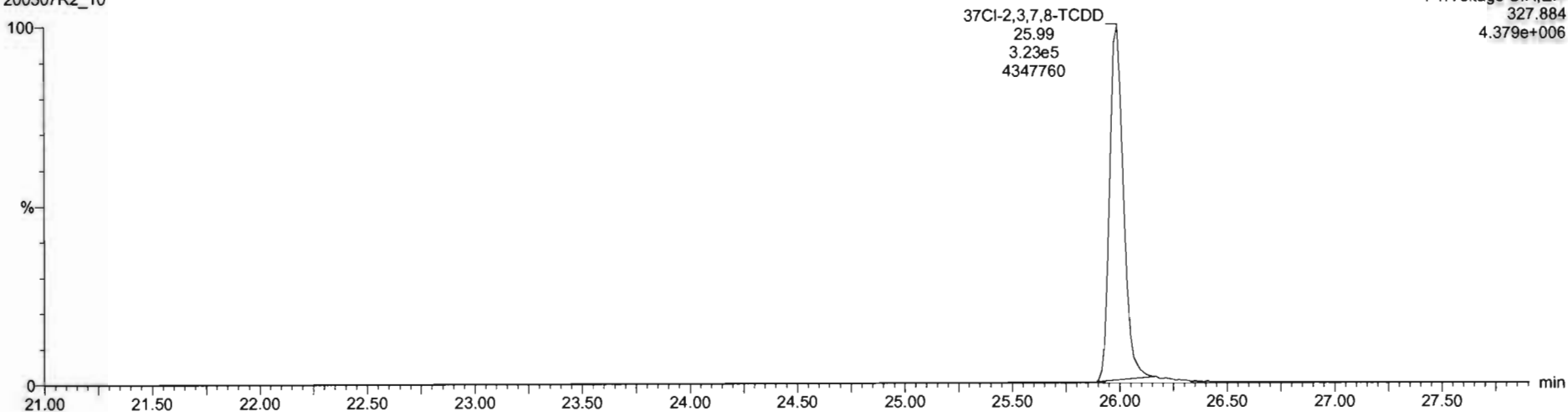


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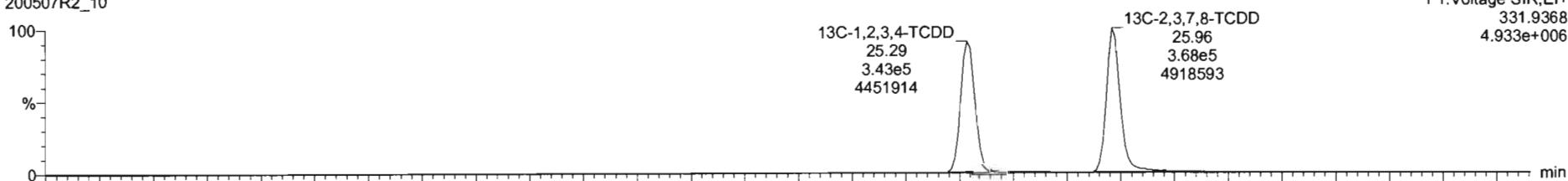
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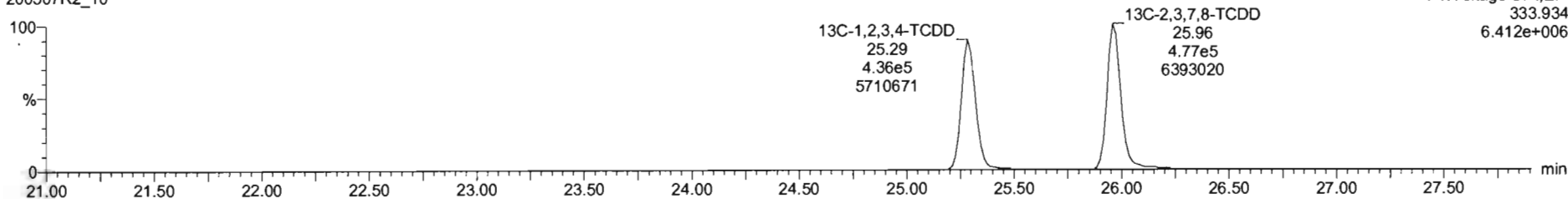
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200507R2_10



13C-1,2,3,4-TCDD
200507R2_10



200507R2_10



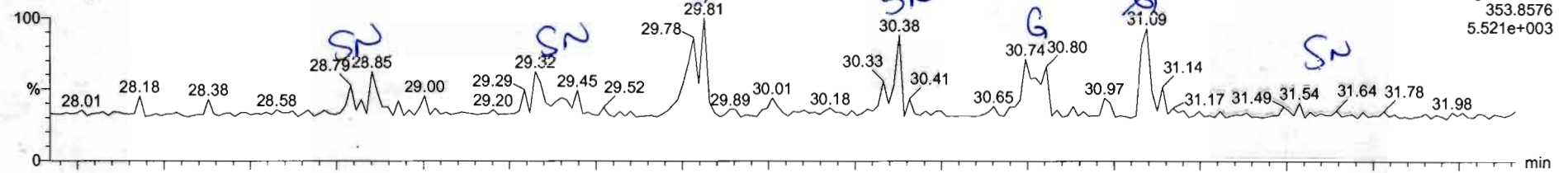
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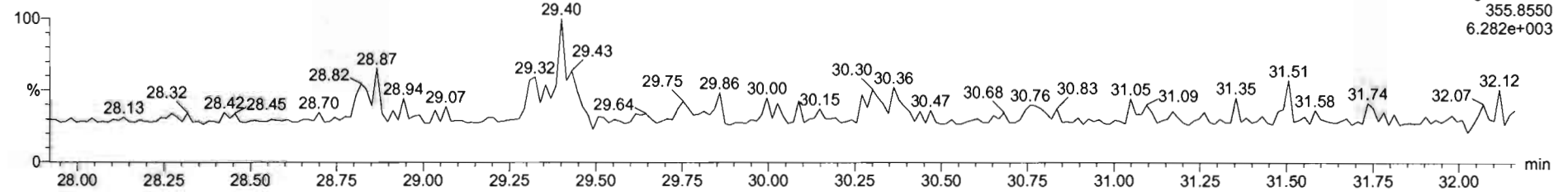
1,2,3,7,8-PeCDD

200507R2_10



F2:Voltage SIR,EI+
353.8576
5.521e+003

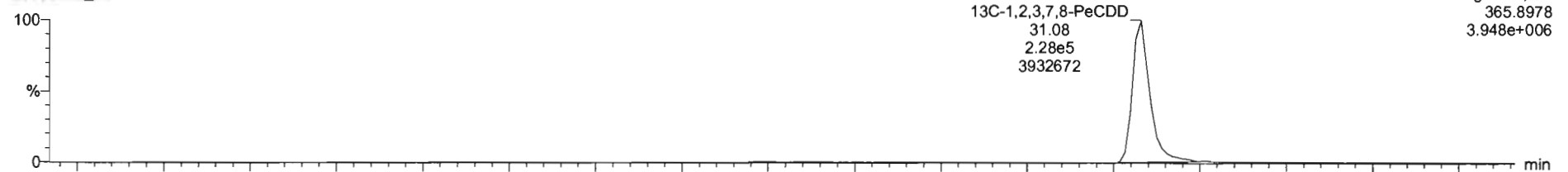
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F2:Voltage SIR,EI+
355.8550
6.282e+003

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

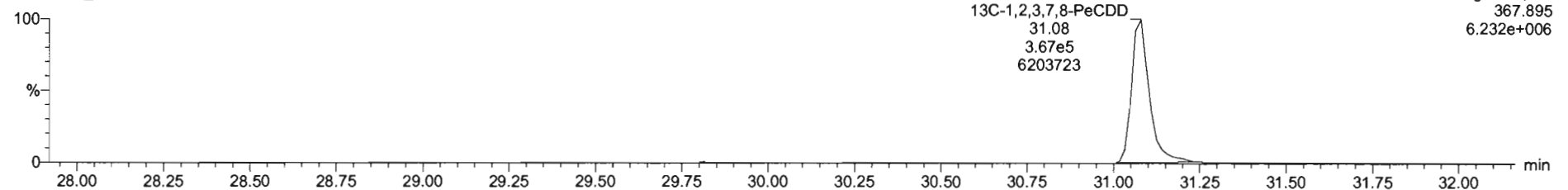
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13C-1,2,3,7,8-PeCDD
31.08
2.28e5
3932672

F2:Voltage SIR,EI+
365.8978
3.948e+006

200507R2_10



13C-1,2,3,7,8-PeCDD
31.08
3.67e5
6203723

F2:Voltage SIR,EI+
367.895
6.232e+006

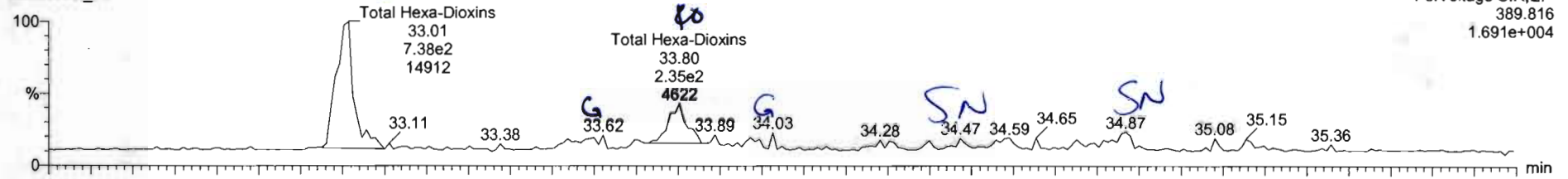
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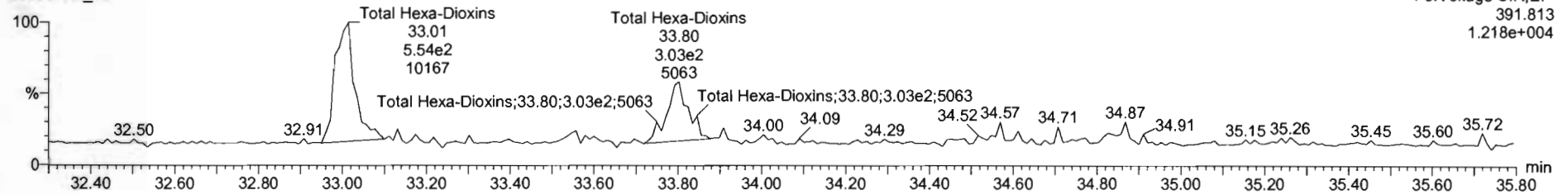
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1,2,3,4,7,8-HxCDD

200507R2_10

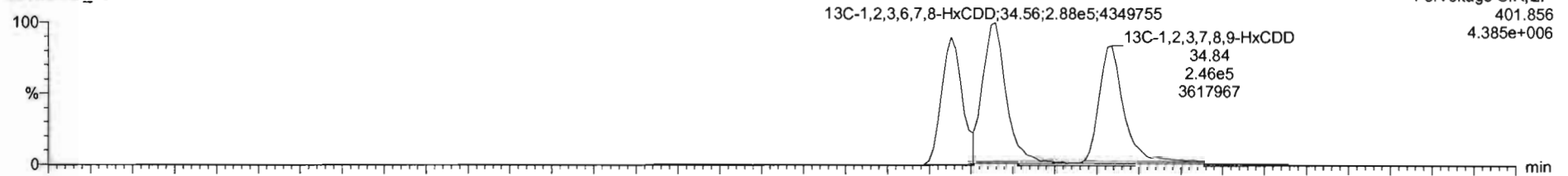


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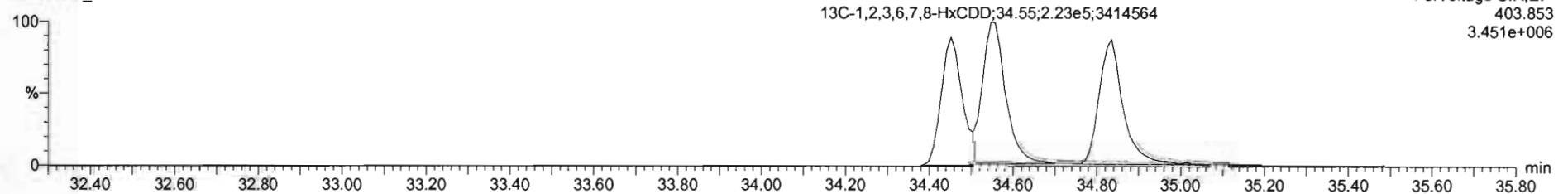


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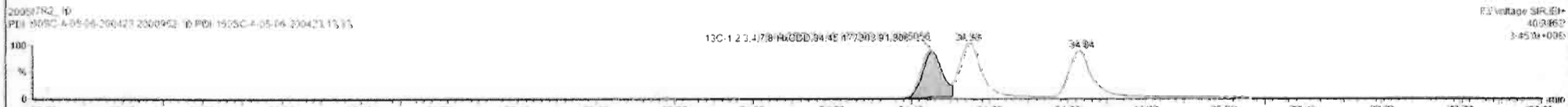
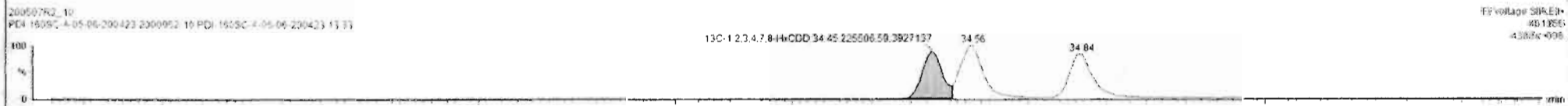
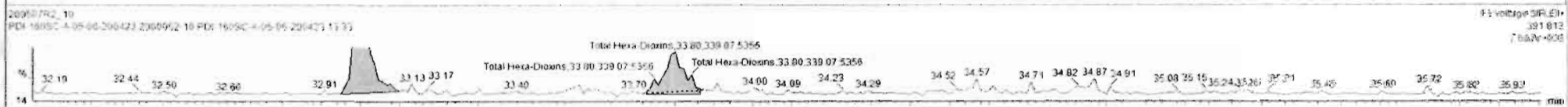
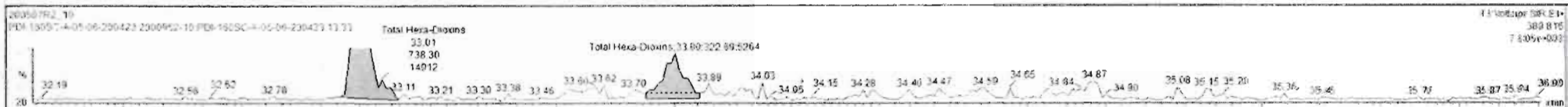


200507R2_10



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.068			0.191	0.0756	0.191	
40 Total Penta-Dioxins				0.9425	10.038				0.0427		
41 Total Hexa-Dioxins				0.9145	10.068			0.820	0.0866	0.800	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.01	7.383e2	5.539e2	1.33	NO	0.61900	0.61900
2 Total Hexa-Dioxins	33.60	2.227e2	3.291e2	0.95	YES	0.27965	0.00000



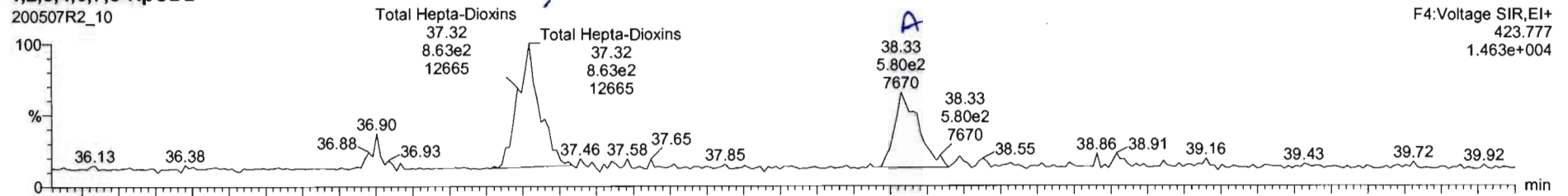
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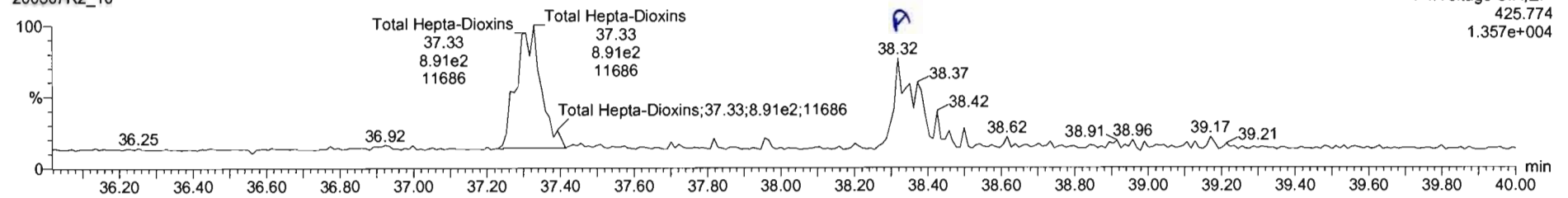
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1,2,3,4,6,7,8-HpCDD

200507R2_10

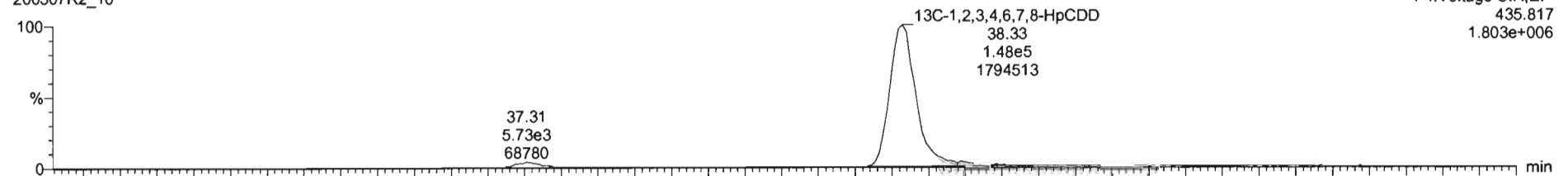


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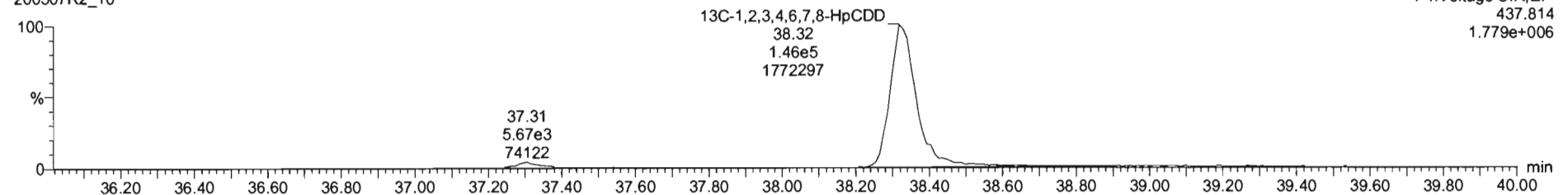


13C-1,2,3,4,6,7,8-HpCDD

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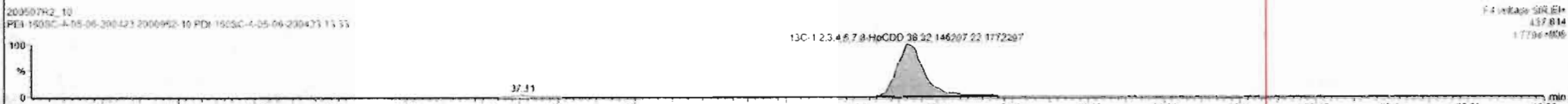


200507R2_10



Name	Resp	RA	n/y	RRF	wbvol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.6979	10.088			2.20		0.220	2.20
43 Total Tetra-Furans				0.7871	10.088					0.0235	
44 1st Func. Penta-Furans				0.9102	10.088					0.0112	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.32	5.828e2	5.908e2	0.97	NQ	1.3172	1.3172
2 1,2,3,4,6,7,8-HpCDD	38.33	5.796e2	5.997e2	0.97	NQ	0.68568	0.68568

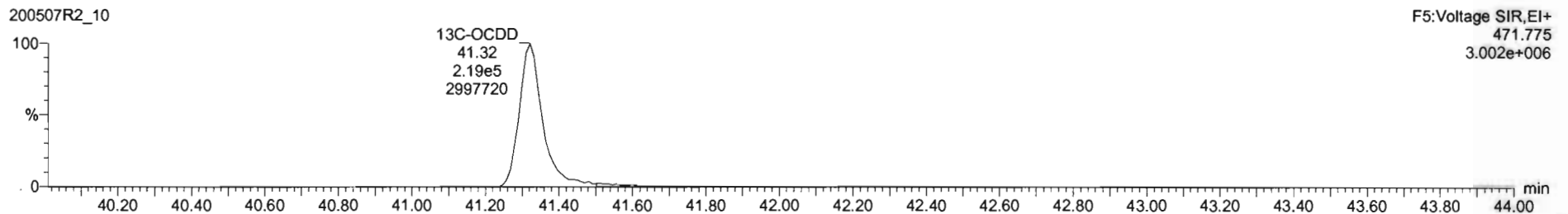
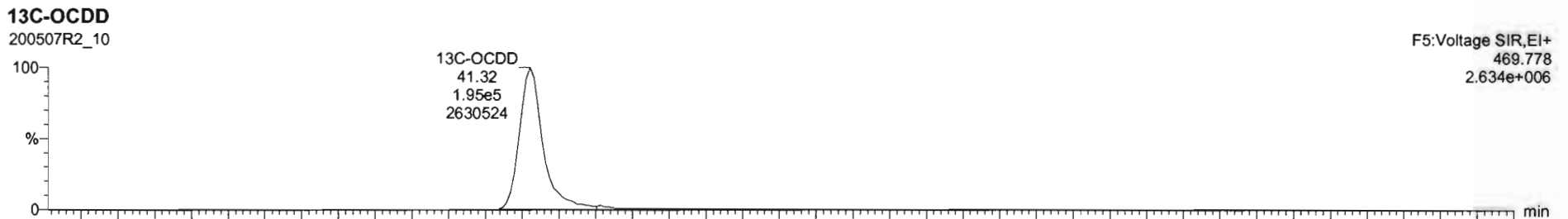
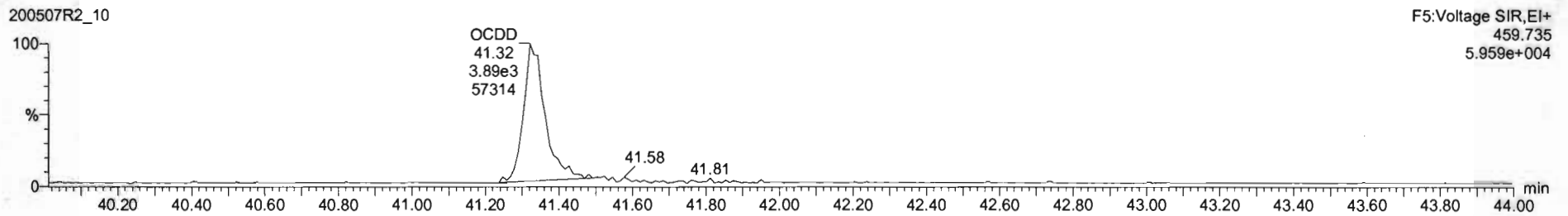
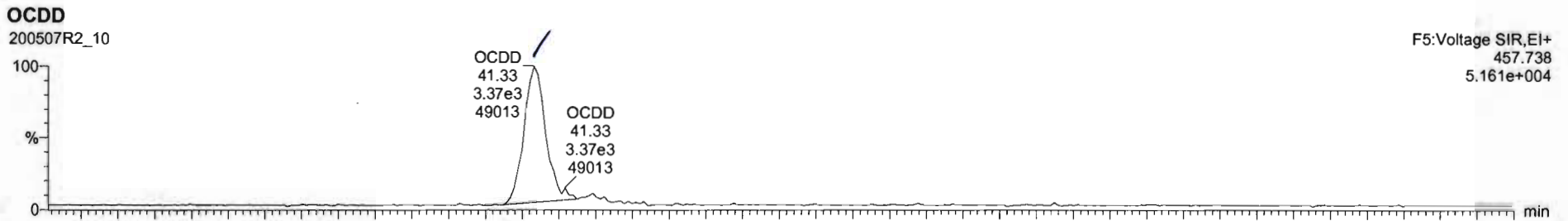


Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

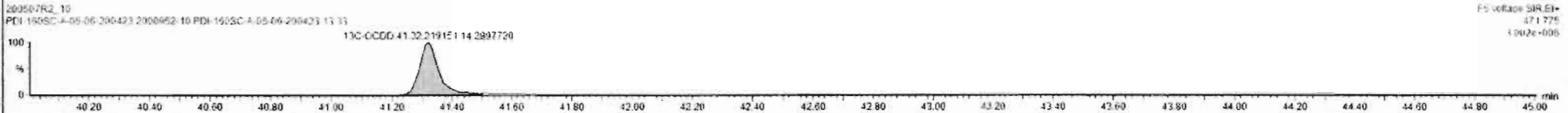
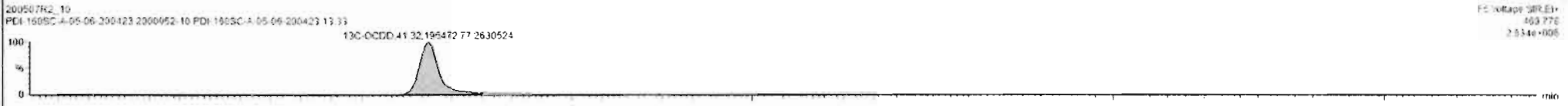
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423



Name	Resp	RA	ny	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	7.26e3	0.91	NO	0.9335	10.056	41.33	1.000	7.44		8.264	7.44
5 2,3,7,8-TCDF			NO	0.7871	10.058					0.0479	
9 1,2,3,7,8-PeCDF			NO	0.9102	10.058					0.0265	

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1							



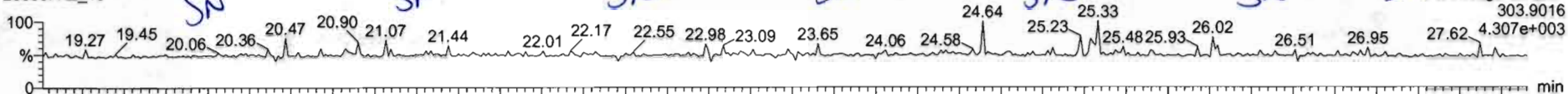
Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

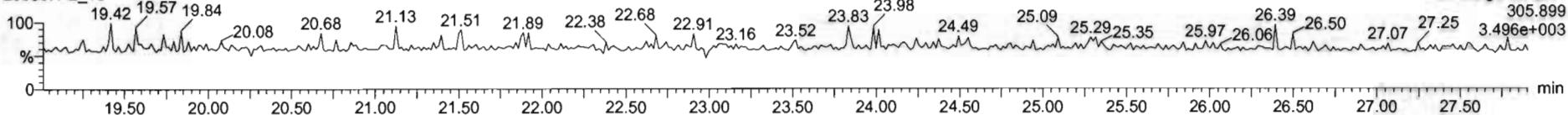
Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423

2,3,7,8-TCDF

200507R2_10

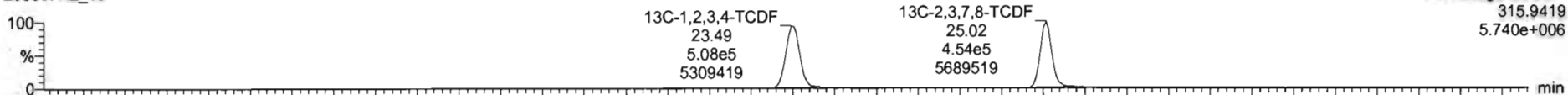


200507R2_10

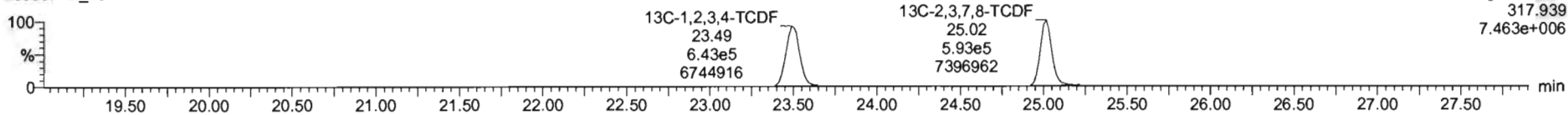


13C-2,3,7,8-TCDF

200507R2_10

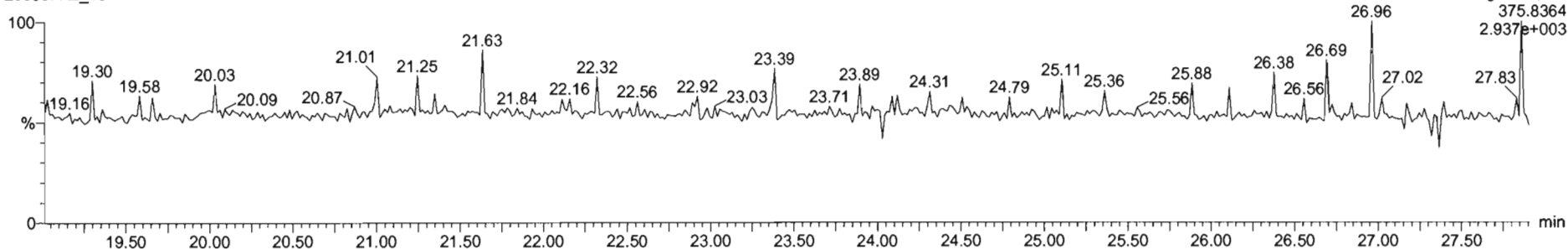


200507R2_10



DPE1

200507R2_10



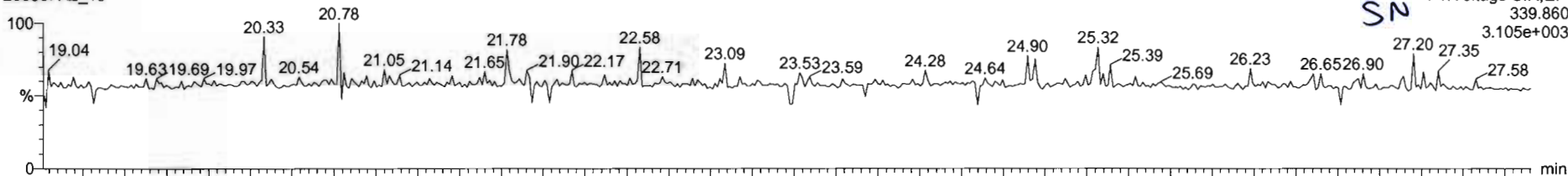
Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

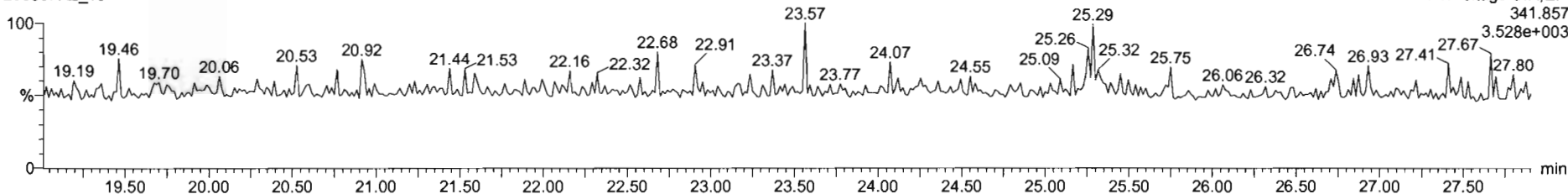
Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423

1st Func. Penta-Furans

200507R2_10

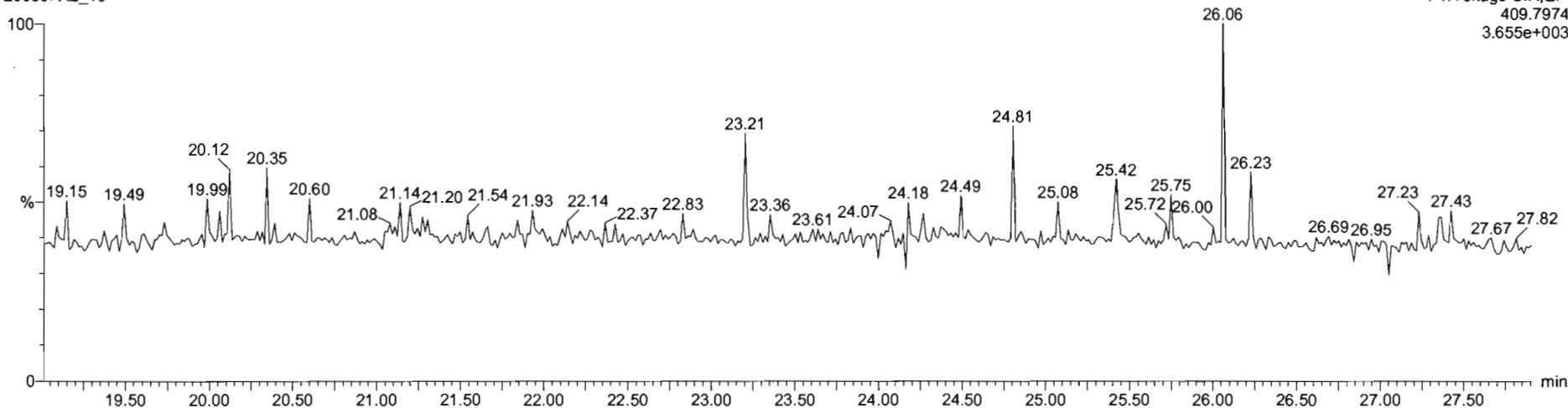


200507R2_10



DPE6

200507R2_10

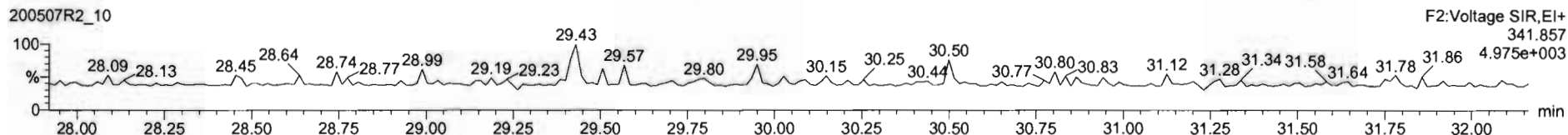
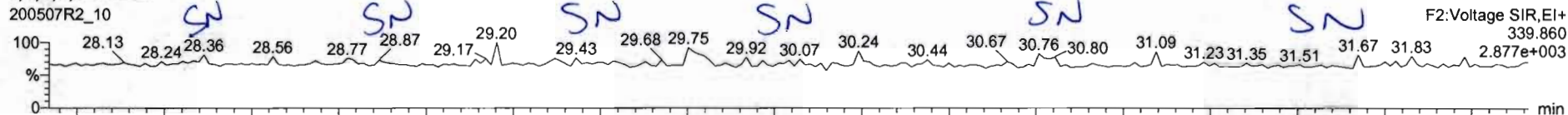


Dataset: Untitled

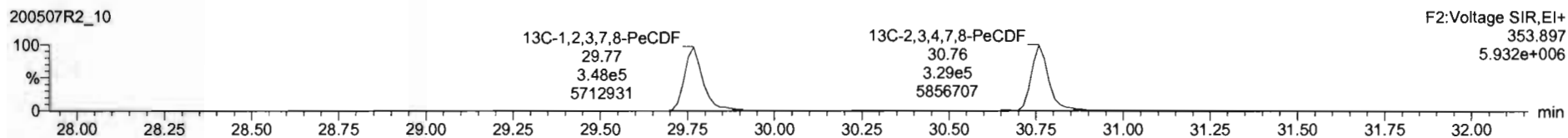
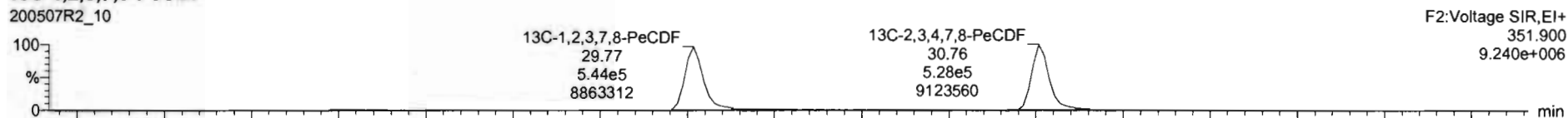
Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423

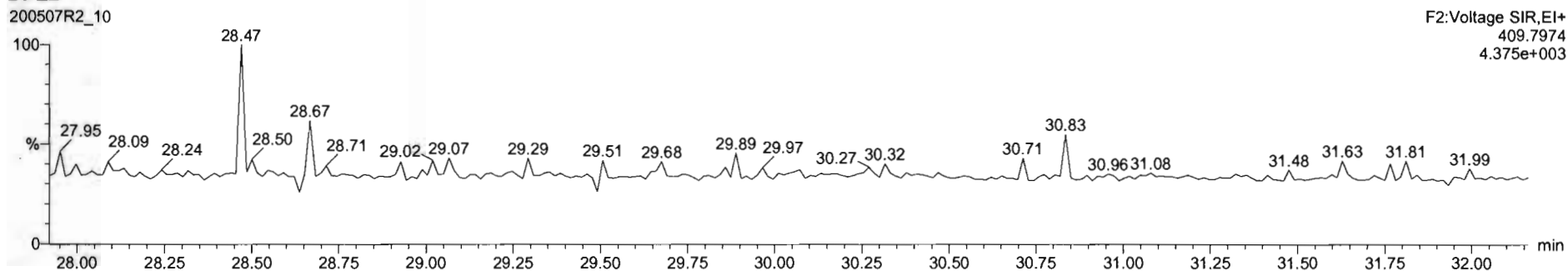
1,2,3,7,8-PeCDF



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



DPE2



Dataset: Untitled

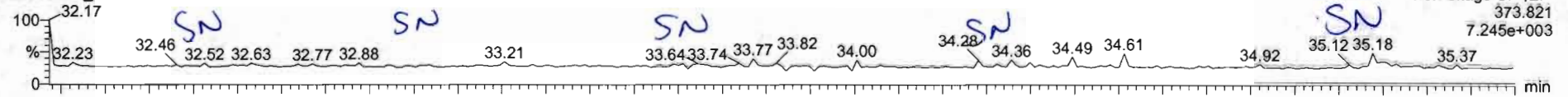
Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

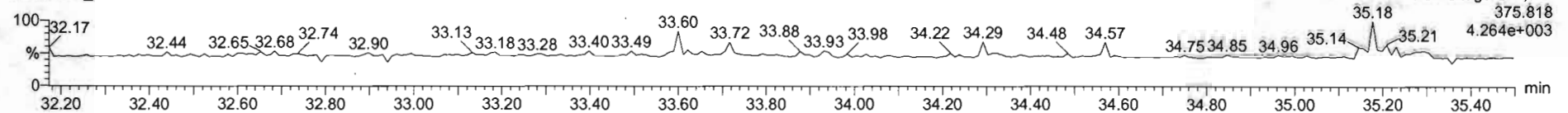
Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423

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

200507R2_10

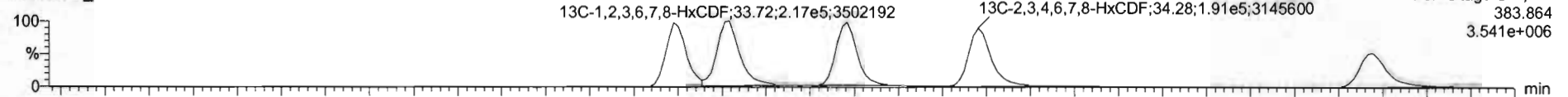


200507R2_10

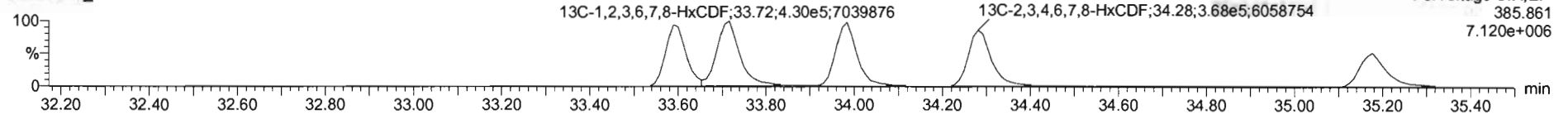


13C-1,2,3,4,7,8-HxCDF

200507R2_10

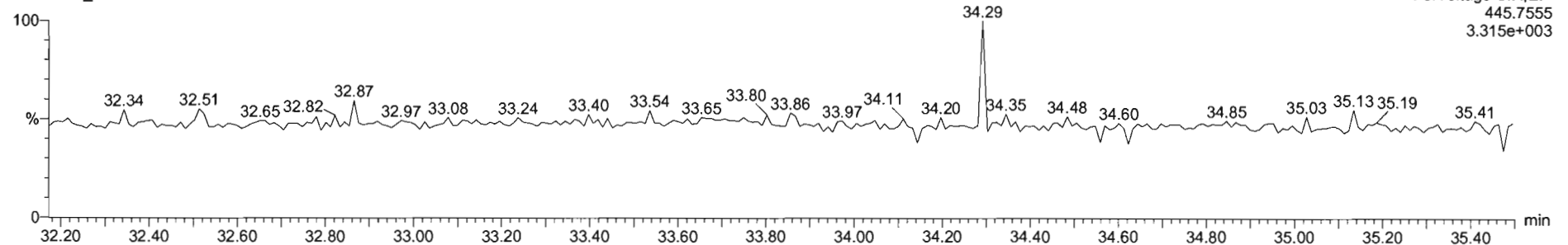


200507R2_10



DPE3

200507R2_10

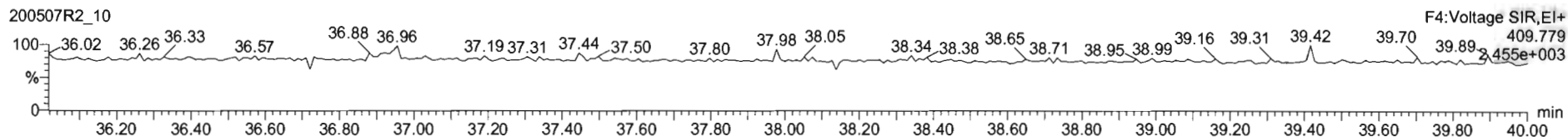
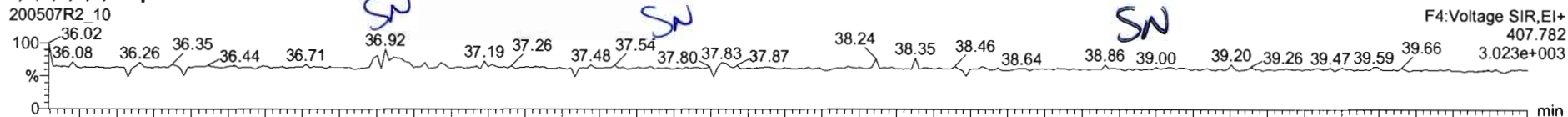


Dataset: Untitled

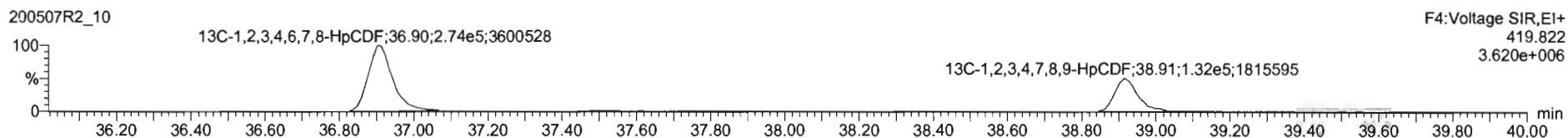
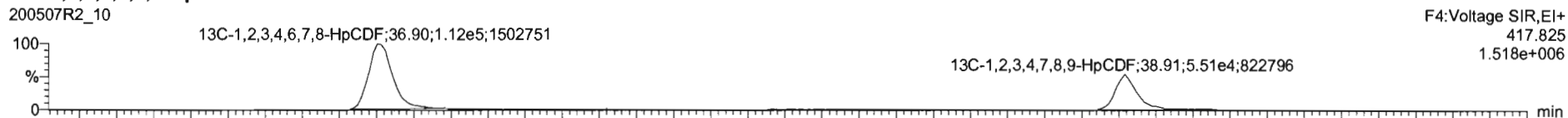
Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423

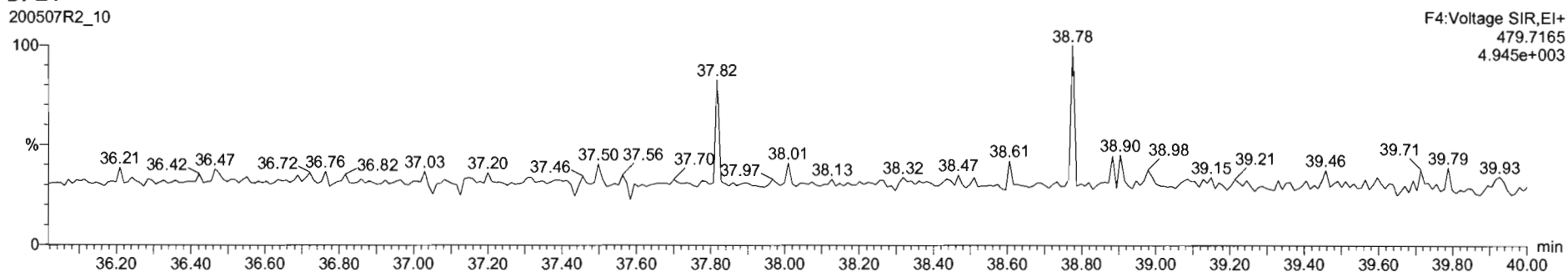
1,2,3,4,6,7,8-HpCDF



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



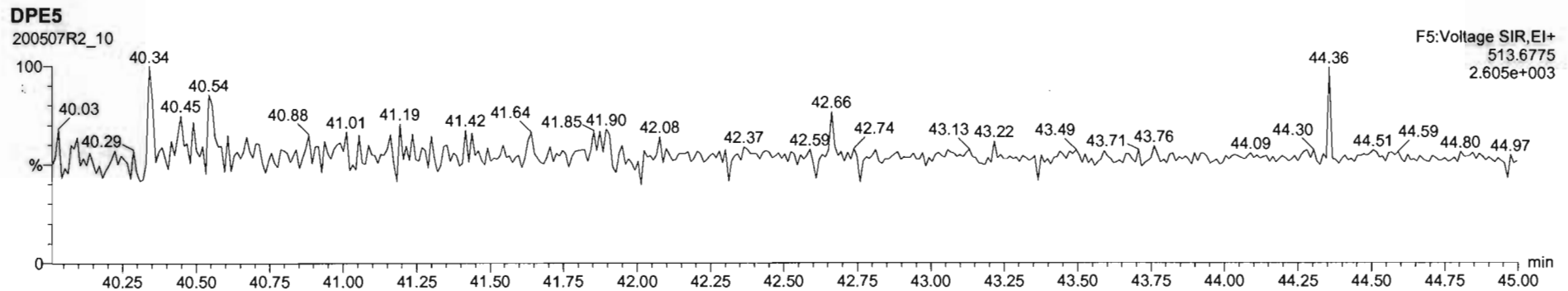
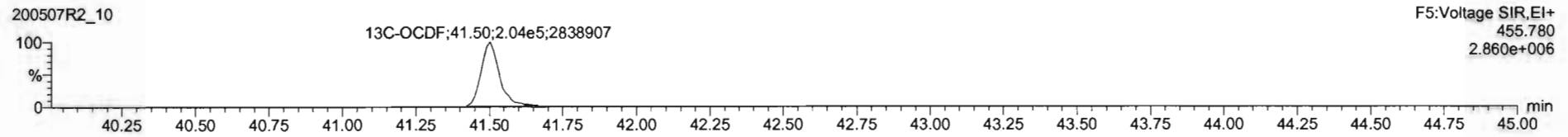
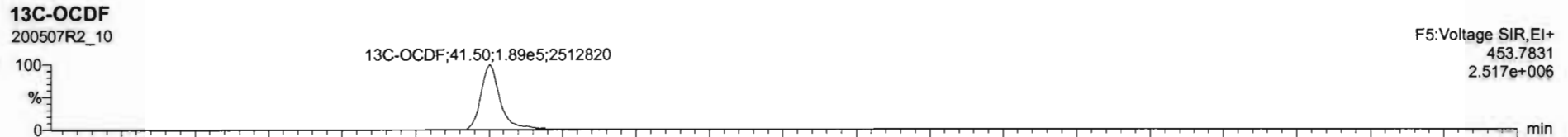
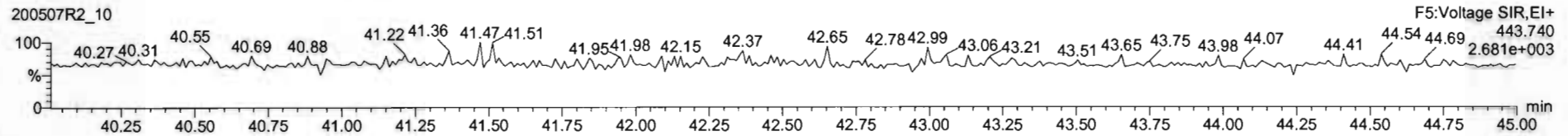
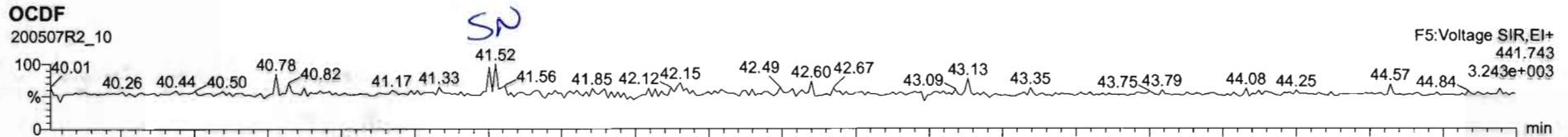
DPE4



Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423



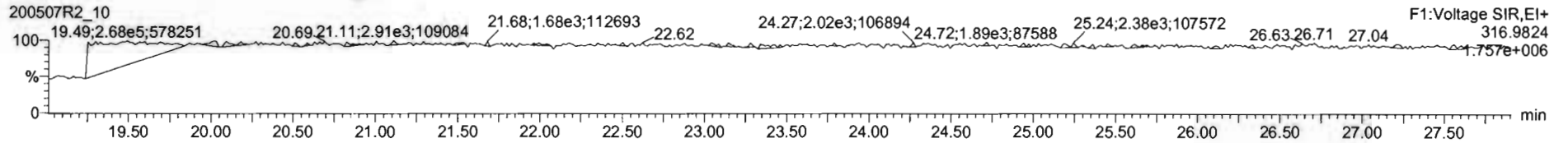
Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

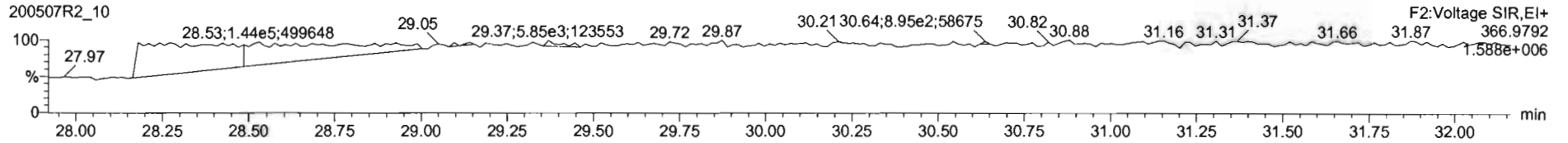
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_10, Date: 07-May-2020, Time: 21:28:58, ID: 2000952-10 PDI-160SC-A-05-06-200423 13.33, Description: PDI-160SC-A-05-06-200423

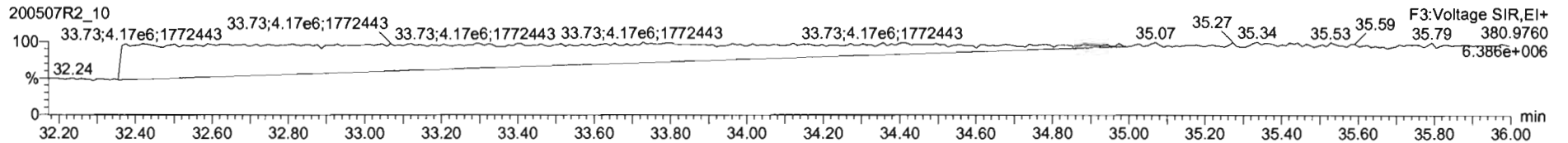
PFK1



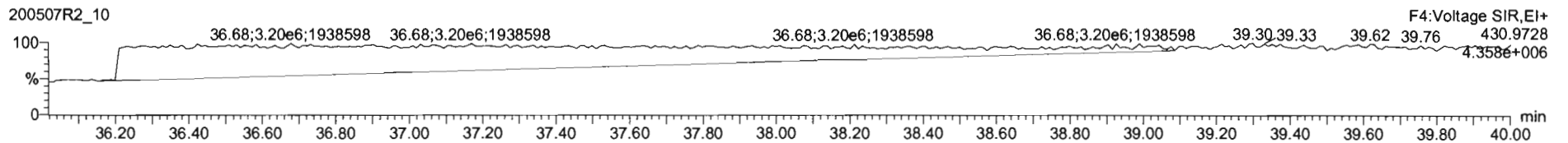
PFK2



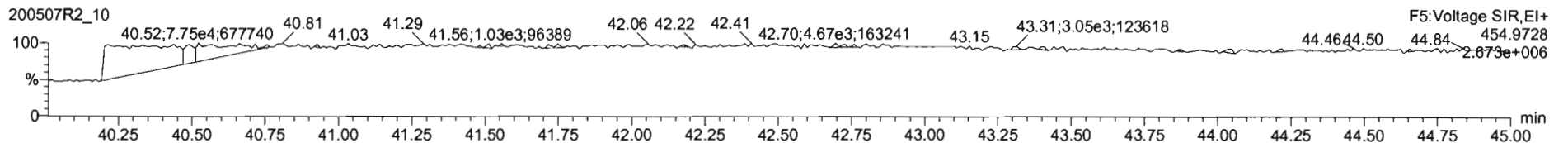
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200507R2\200507R2-11.qld

Last Altered: Friday, May 08, 2020 11:37:10 Pacific Daylight Time
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CT 05/14/2020

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

Name: 200507R2_11, Date: 07-May-2020, Time: 22:15:10, ID: 2000952-11 PDI-160SC-A-06-07-200423 11.27, Description: PDI-160SC-A-06-07-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.024	26.006		1.001				0.0945	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.024	31.116		1.001				0.111	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.024	34.473		1.000				0.104	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.024	34.569		1.000				0.106	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.024	34.845		1.000				0.127	
6	6 1,2,3,4,6,7,8-HpCDD	1.03e3	0.95	NO	0.898	10.024	38.351	38.35	1.000	1.000	0.88809		0.219	0.888
7	7 OCDD	5.81e3	0.94	NO	0.933	10.024	41.343	41.35	1.000	1.000	7.0182		0.164	7.02
8	8 2,3,7,8-TCDF			NO	0.787	10.024	25.042		1.001				0.0475	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.024	29.803		1.001				0.0469	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.024	30.805		1.001				0.0431	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.024	33.600		1.000				0.0379	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.024	33.727		1.000				0.0356	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.024	34.326		1.001				0.0382	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.024	35.187		1.000				0.0693	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.024	36.960		1.001				0.0608	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.024	38.936		1.000				0.105	
17	17 OCDF			NO	0.802	10.024	41.524		1.000				0.138	
18	18 13C-2,3,7,8-TCDD	7.59e5	0.78	NO	1.16	10.024	25.969	25.98	1.026	1.027	186.27	93.4	0.457	
19	19 13C-1,2,3,7,8-PeCDD	5.48e5	0.63	NO	0.847	10.024	31.049	31.09	1.227	1.229	184.20	92.3	0.645	
20	20 13C-1,2,3,4,7,8-HxCDD	3.58e5	1.29	NO	0.750	10.024	34.473	34.46	1.014	1.014	184.62	92.5	1.17	
21	21 13C-1,2,3,6,7,8-HxCDD	4.65e5	1.30	NO	0.963	10.024	34.585	34.57	1.017	1.017	186.88	93.7	0.910	
22	22 13C-1,2,3,7,8,9-HxCDD	3.91e5	1.26	NO	0.838	10.024	34.854	34.83	1.025	1.025	180.52	90.5	1.05	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.58e5	1.05	NO	0.641	10.024	38.342	38.34	1.128	1.128	155.46	77.9	0.926	
24	24 13C-OCDD	3.54e5	0.87	NO	0.586	10.024	41.333	41.34	1.216	1.216	233.35	58.5	0.512	
25	25 13C-2,3,7,8-TCDF	1.03e6	0.76	NO	1.03	10.024	25.030	25.02	0.989	0.989	186.48	93.5	0.618	
26	26 13C-1,2,3,7,8-PeCDF	8.42e5	1.61	NO	0.845	10.024	29.741	29.78	1.176	1.177	187.38	93.9	0.887	
27	27 13C-2,3,4,7,8-PeCDF	8.01e5	1.58	NO	0.814	10.024	30.731	30.77	1.215	1.216	184.94	92.7	0.921	
28	28 13C-1,2,3,4,7,8-HxCDF	4.92e5	0.51	NO	1.00	10.024	33.613	33.60	0.989	0.988	189.25	94.9	1.14	
29	29 13C-1,2,3,6,7,8-HxCDF	6.01e5	0.51	NO	1.14	10.024	33.736	33.72	0.992	0.992	204.40	102	1.00	
30	30 13C-2,3,4,6,7,8-HxCDF	5.07e5	0.53	NO	1.02	10.024	34.303	34.29	1.009	1.009	191.63	96.0	1.12	
31	31 13C-1,2,3,7,8,9-HxCDF	3.77e5	0.49	NO	0.845	10.024	35.194	35.19	1.035	1.035	172.79	86.6	1.35	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-11.qld

Last Altered: Friday, May 08, 2020 11:37:10 Pacific Daylight Time

Printed: Friday, May 08, 2020 11:42:36 Pacific Daylight Time

Name: 200507R2_11, Date: 07-May-2020, Time: 22:15:10, ID: 2000952-11 PDI-160SC-A-06-07-200423 11.27, Description: PDI-160SC-A-06-07-200423

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.52e5	0.43	NO	0.771	10.024	36.924	36.92	1.086	1.086	176.30	88.4	0.969	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.77e5	0.44	NO	0.482	10.024	38.933	38.94	1.145	1.145	142.06	71.2	1.55	
34	34 13C-OCDF	3.62e5	0.89	NO	0.669	10.024	41.503	41.52	1.221	1.222	209.64	52.5	0.400	
35	35 37Cl-2,3,7,8-TCDD	2.65e5			1.10	10.024	25.999	25.99	1.028	1.027	68.557	85.9	0.0938	
36	36 13C-1,2,3,4-TCDD	7.01e5	0.80	NO	1.00	10.024	25.350	25.30	1.000	1.000	199.52	100	0.530	
37	37 13C-1,2,3,4-TCDF	1.06e6	0.78	NO	1.00	10.024	23.560	23.50	1.000	1.000	199.52	100	0.639	
38	38 13C-1,2,3,4,6,9-HxCDF	5.16e5	0.52	NO	1.00	10.024	34.000	33.99	1.000	1.000	199.52	100	1.14	
39	39 Total Tetra-Dioxins				0.947	10.024	24.620		0.000		0.00000		0.0480	0.255
40	40 Total Penta-Dioxins				0.942	10.024	29.960		0.000				0.0546	
41	41 Total Hexa-Dioxins				0.915	10.024	33.635		0.000		1.0800		0.117	1.08
42	42 Total Hepta-Dioxins				0.898	10.024	37.640		0.000		2.5499		0.219	2.55
43	43 Total Tetra-Furans				0.787	10.024	23.610		0.000				0.0205	
44	44 1st Func. Penta-Furans				0.910	10.024	27.090		0.000				0.0119	
45	45 Total Penta-Furans				0.910	10.024	29.275		0.000				0.0183	
46	46 Total Hexa-Furans				0.922	10.024	33.555		0.000				0.0217	
47	47 Total Hepta-Furans				0.871	10.024	37.835		0.000				0.0391	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-11.qld

Last Altered: Friday, May 08, 2020 11:37:10 Pacific Daylight Time

Printed: Friday, May 08, 2020 11:42:36 Pacific Daylight Time

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

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

Name: 200507R2_11, Date: 07-May-2020, Time: 22:15:10, ID: 2000952-11 PDI-160SC-A-06-07-200423 11.27, Description: PDI-160SC-A-06-07-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.68	5.705e3	5.714e3	4.881e2	5.197e2	0.94	YES	0.000e0	0.00000	0.25530	0.0480

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	1.311e4	1.352e4	6.880e2	6.079e2	1.13	NO	1.296e3	0.69851	0.69851	0.117
2	Total Hexa-Dioxins	33.79	6.633e3	5.343e3	4.007e2	3.071e2	1.31	NO	7.078e2	0.38150	0.38150	0.117

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.33	1.440e4	1.244e4	9.333e2	9.951e2	0.94	NO	1.928e3	1.6618	1.6618	0.219
2	1,2,3,4,6,7,8-HpCDD	38.35	9.963e3	9.505e3	5.019e2	5.286e2	0.95	NO	1.031e3	0.88809	0.88809	0.219

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\200507R2\200507R2-11.qld

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Printed: Friday, May 08, 2020 11:42:36 Pacific Daylight Time

Name: 200507R2_11, Date: 07-May-2020, Time: 22:15:10, ID: 2000952-11 PDI-160SC-A-06-07-200423 11.27, Description: PDI-160SC-A-06-07-200423

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

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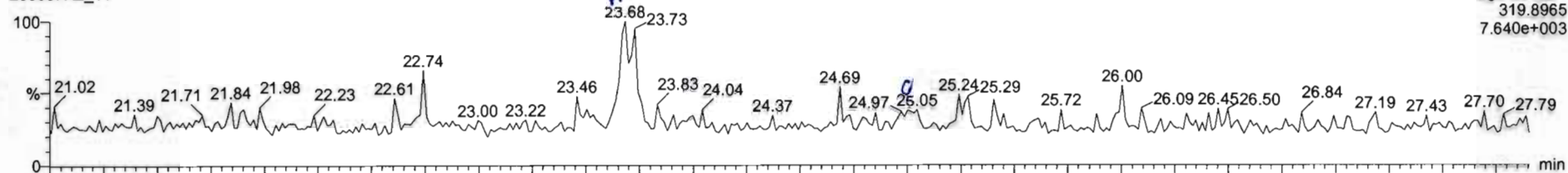
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dy 05-08-2020

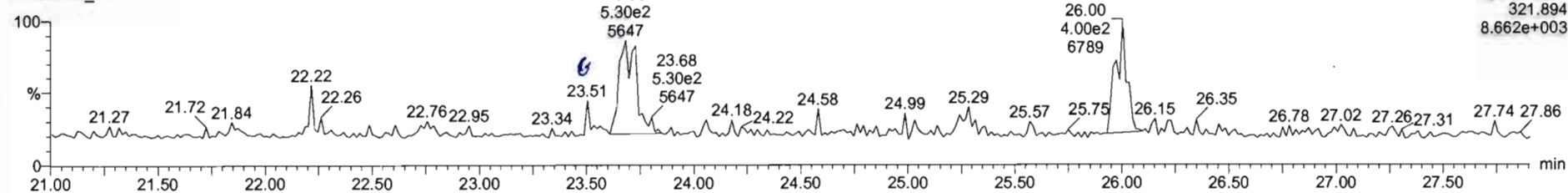
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2,3,7,8-TCDD

200507R2_11

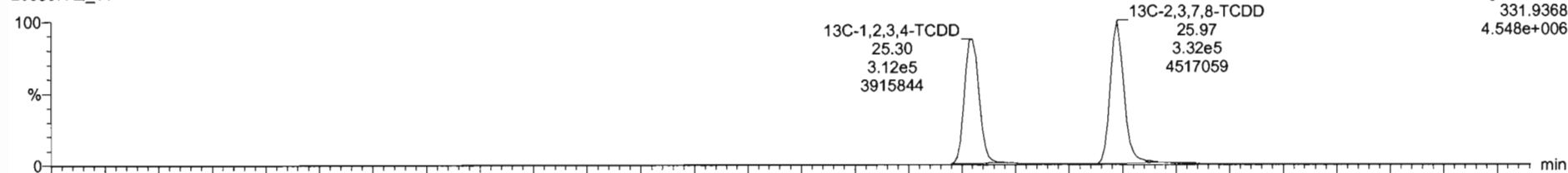


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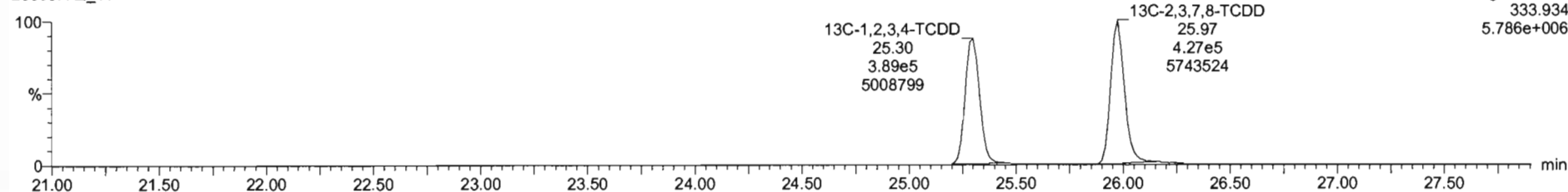


13C-2,3,7,8-TCDD

200507R2_11

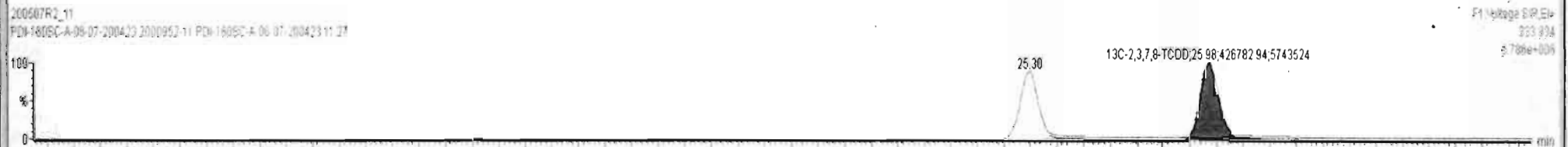
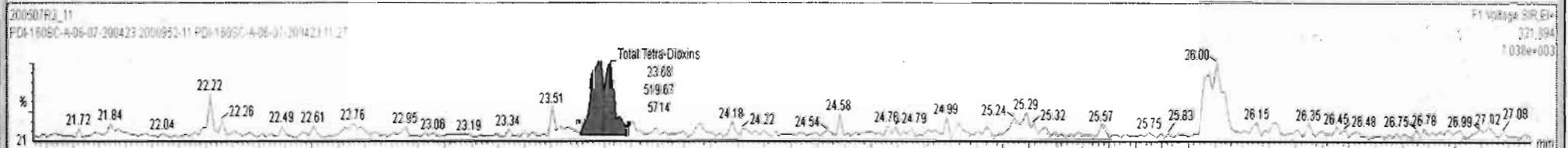
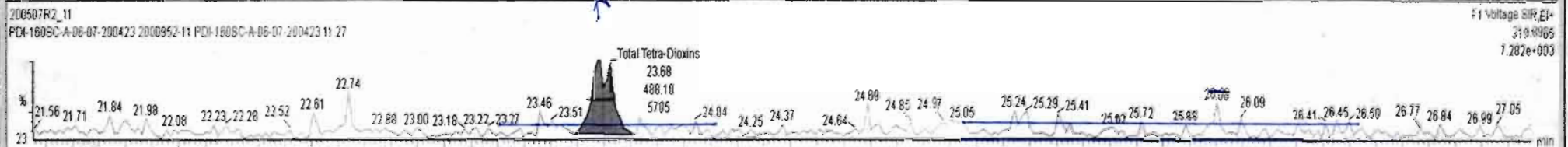


200507R2_11



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.024			0.000		0.0480	0.255
40 Total Penta-Dioxins				0.9425	10.024					0.0546	
41 Total Hexa-Dioxins				0.9145	10.024			0.726		0.117	0.983
42 Total Hepta-Dioxins				0.8979	10.024			0.782		0.220	2.27
43 Total Tetra-Furans				0.7871	10.024					0.0205	
44 1st Func. Penta-Furans				0.9102	10.024					0.0119	
45 Total Penta-Furans				0.9102	10.024					0.0183	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.68	4.881e2	5.197e2	0.94	YES	0.25530	0.00000



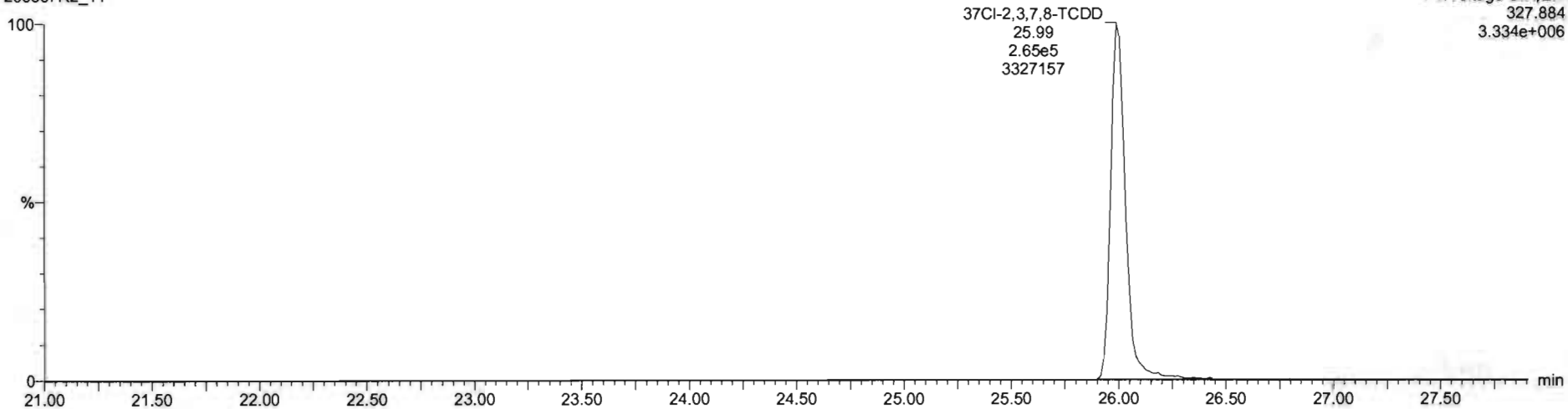
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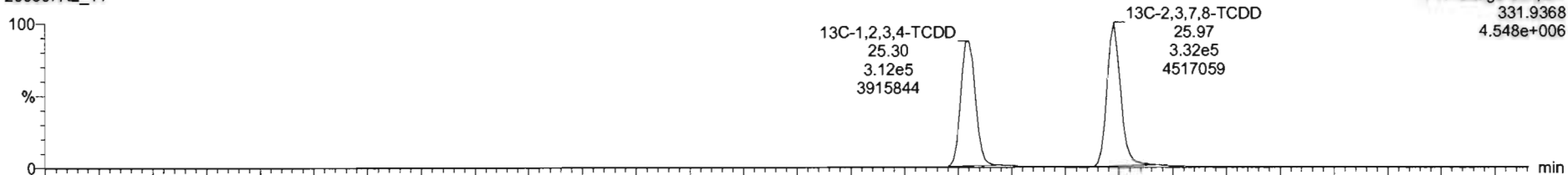
37Cl-2,3,7,8-TCDD

200507R2_11

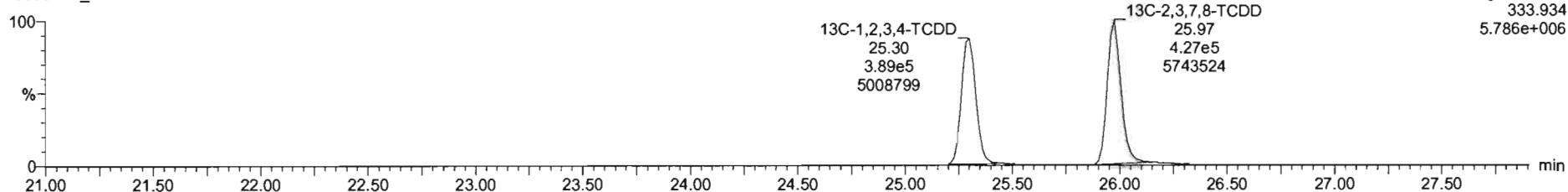


13C-1,2,3,4-TCDD

200507R2_11



200507R2_11



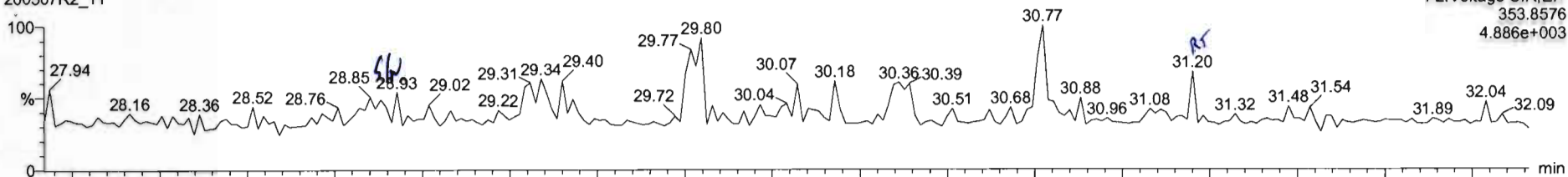
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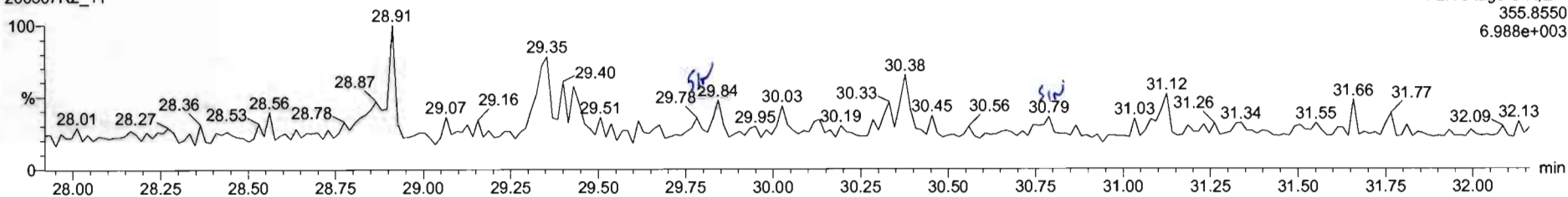
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1,2,3,7,8-PeCDD

200507R2_11

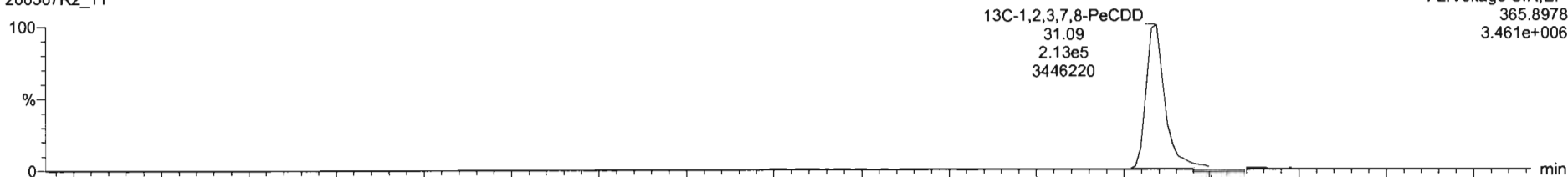


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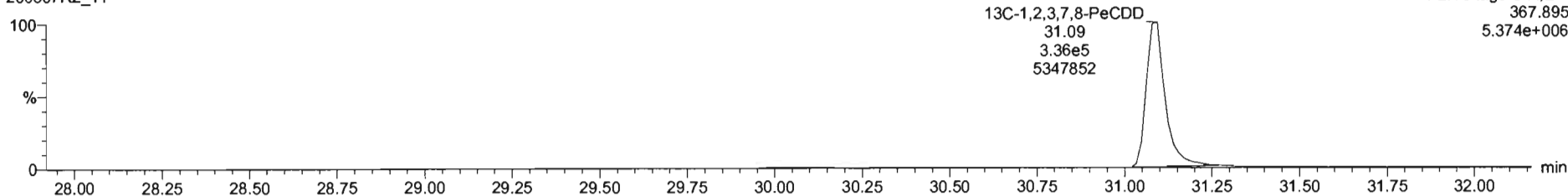


13C-1,2,3,7,8-PeCDD

200507R2_11



200507R2_11



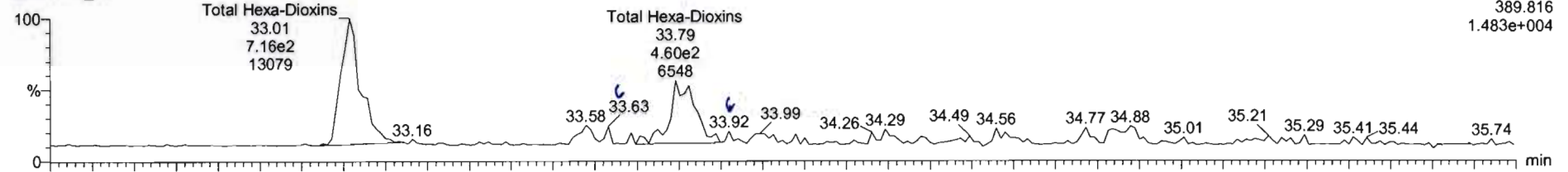
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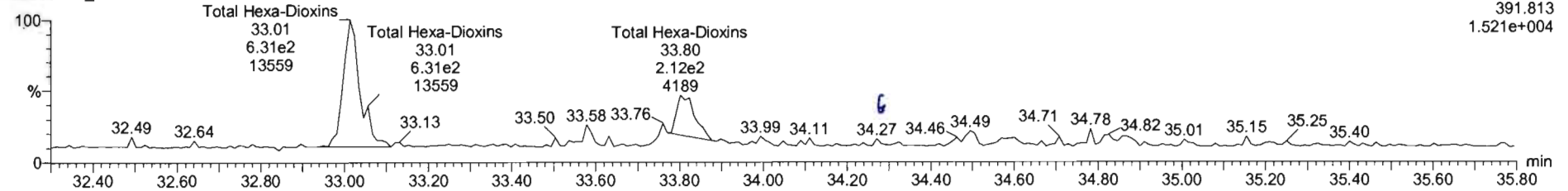
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1,2,3,4,7,8-HxCDD

200507R2_11

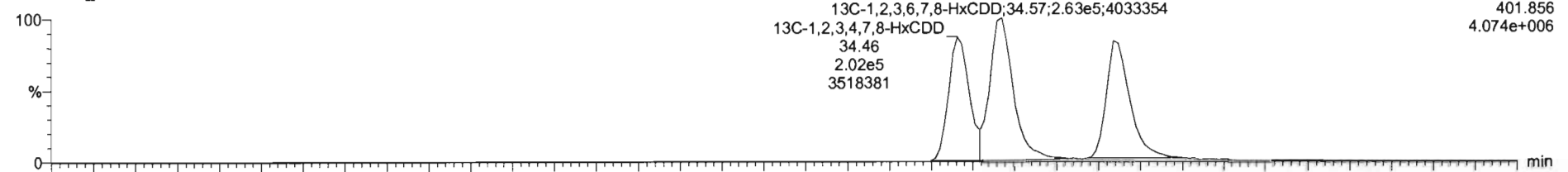


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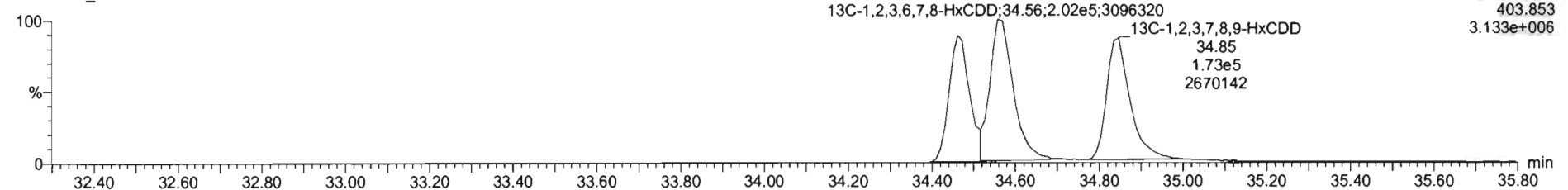


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200507R2_11

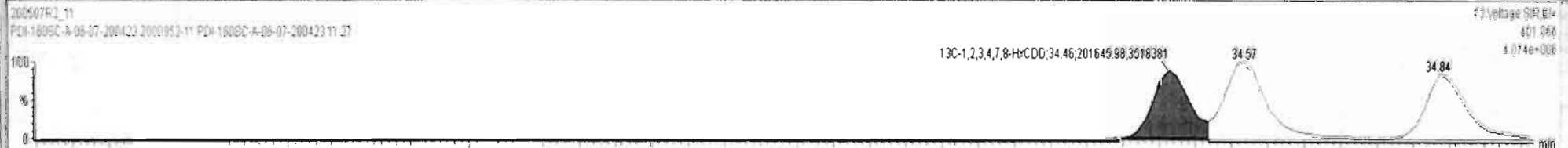
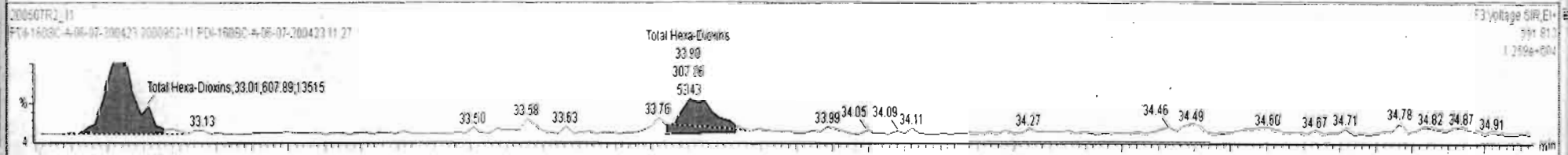
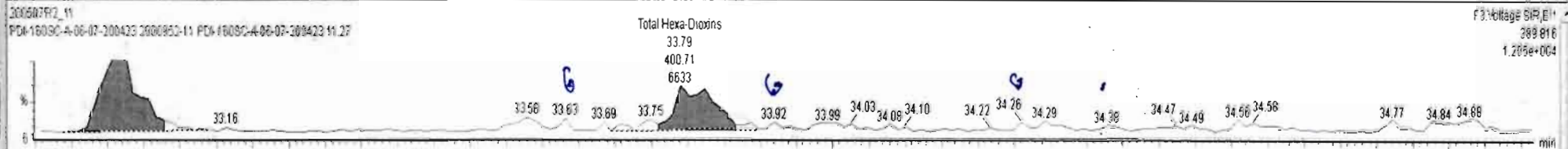


200507R2_11



Name	Resp	RA	n/y	RF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.024			0.000		0.0480	0.255
40 Total Penta-Dioxins				0.9425	10.024					0.0546	
41 Total Hexa-Dioxins				0.9145	10.024			1.08		0.117	1.08
42 Total Hepta-Dioxins				0.8979	10.024			0.782		0.220	2.27
43 Total Tetra-Furans				0.7871	10.024					0.0205	
44 1st Func. Penta-Furans				0.9102	10.024					0.0119	
45 Total Penta-Furans				0.9102	10.024					0.0183	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.79	4.007e2	3.071e2	1.31	NO	0.38150	0.38150
2 Total Hexa-Dioxins	33.01	6.880e2	6.079e2	1.13	NO	0.69851	0.69851



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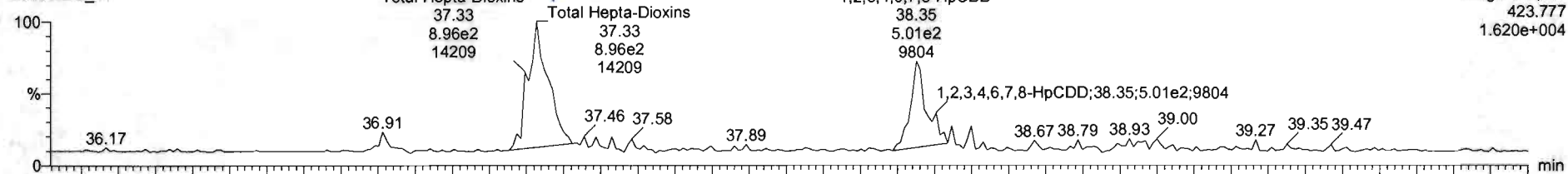
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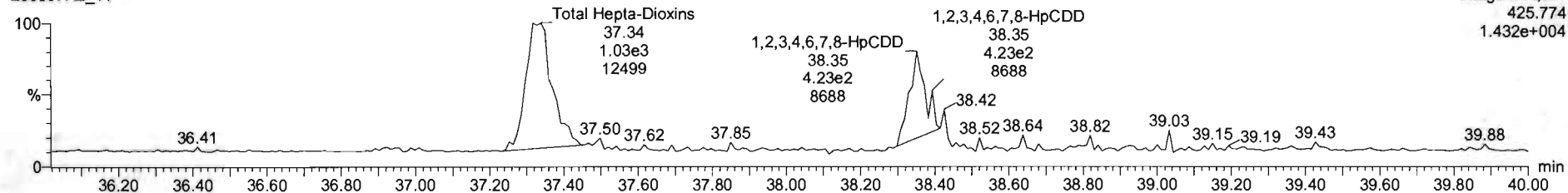
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1,2,3,4,6,7,8-HpCDD

200507R2_11

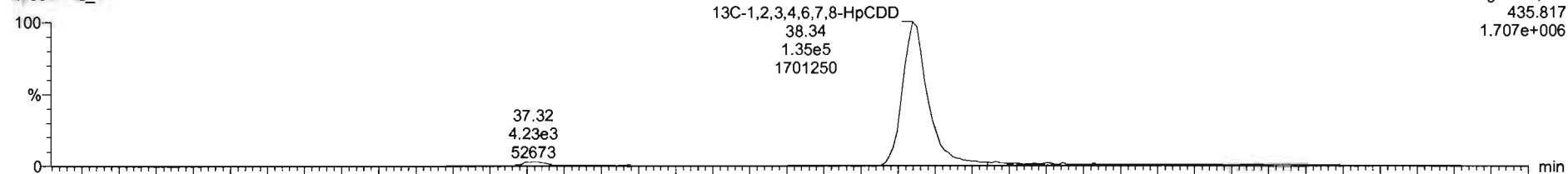


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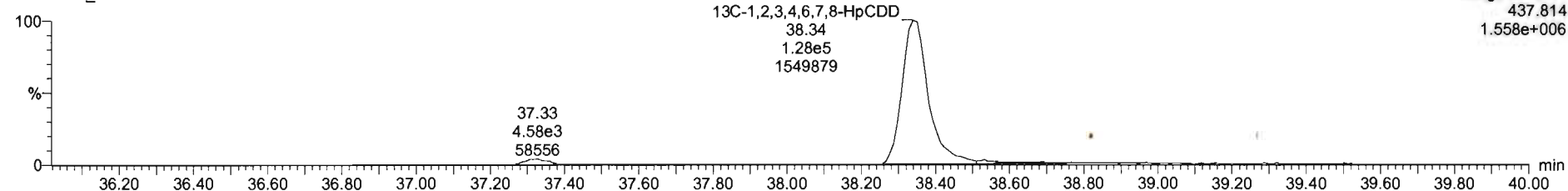


13C-1,2,3,4,6,7,8-HpCDD

200507R2_11

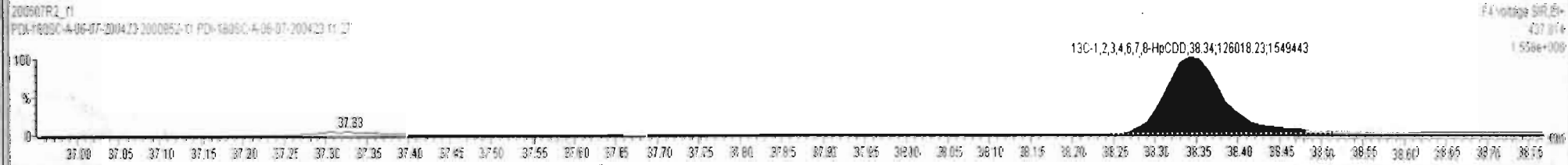
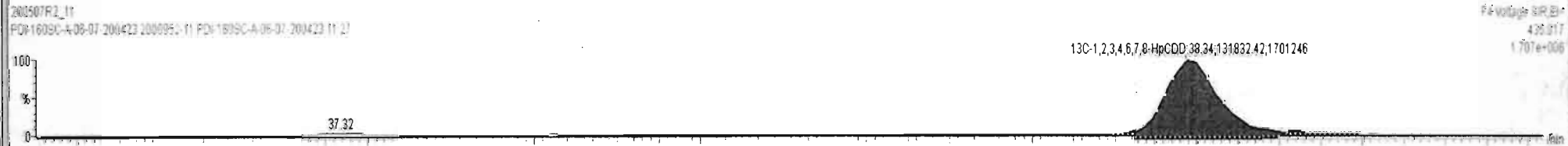
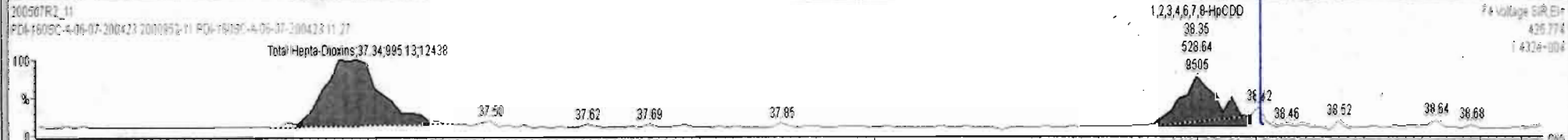


200507R2_11



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.024			0.000		0.0460	0.255
40 Total Penta-Dioxins				0.9425	10.024					0.0546	
41 Total Hexa-Dioxins				0.9145	10.024			1.08		0.117	1.08
42 Total Hepta-Dioxins				0.8979	10.024			2.55		0.219	2.55
43 Total Tetra-Furans				0.7871	10.024					0.0205	
44 1st Func. Penta-Furans				0.9102	10.024					0.0119	
45 Total Penta-Furans				0.9102	10.024					0.0183	

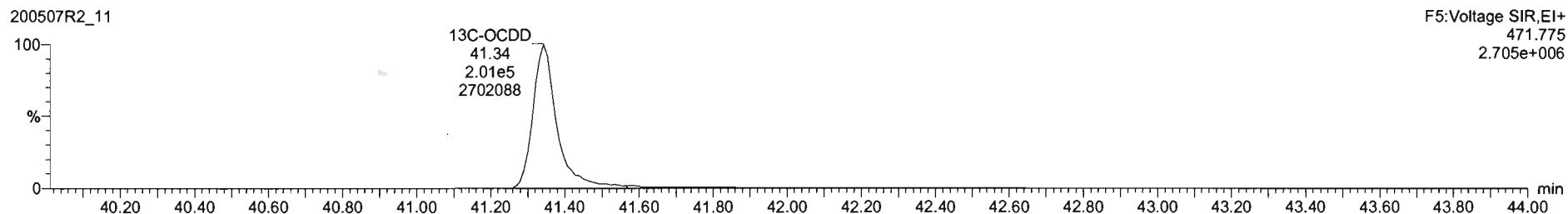
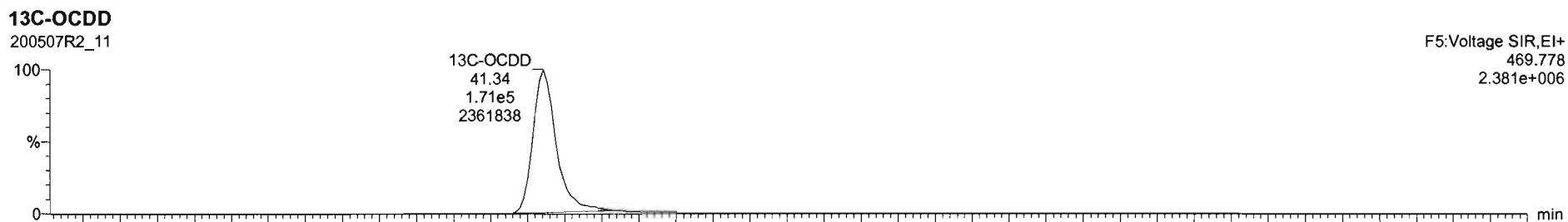
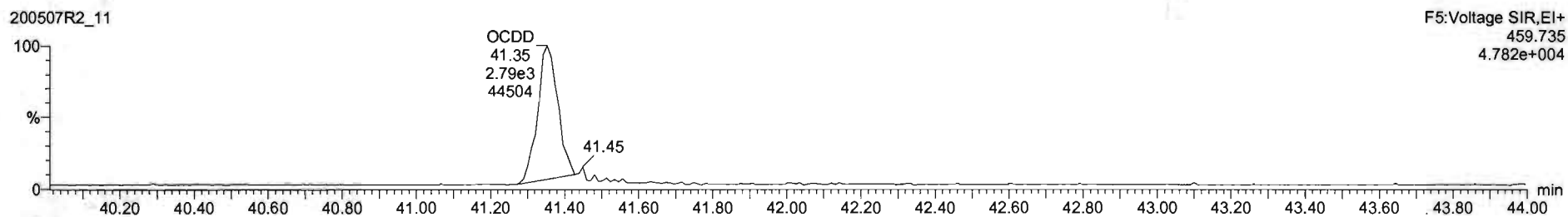
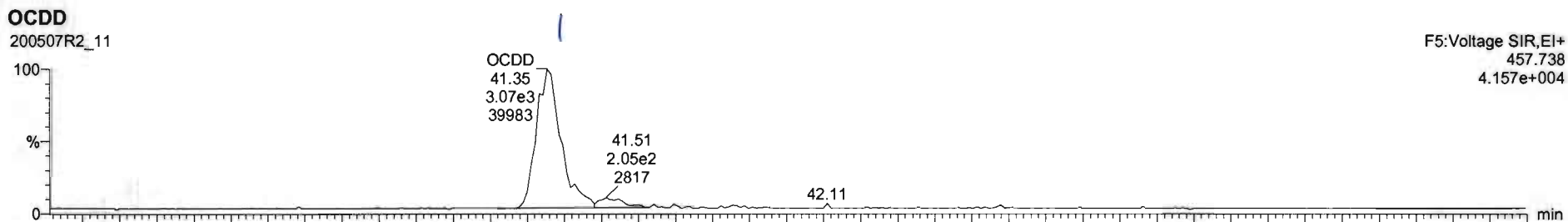
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.35	5.019e2	5.266e2	0.95	NO	0.88809	0.88809
2 Total Hepta-Dioxins	37.33	9.333e2	9.951e2	0.94	NO	1.6618	1.6618



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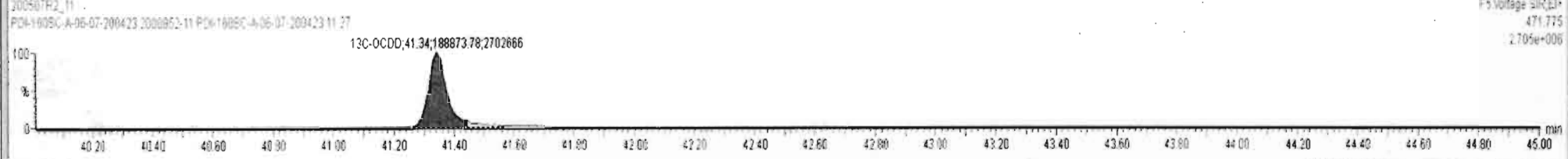
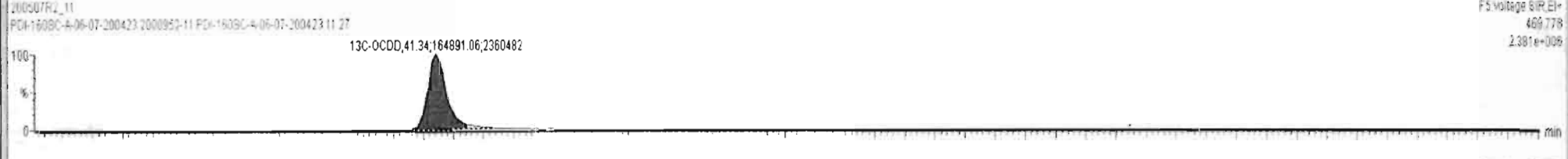
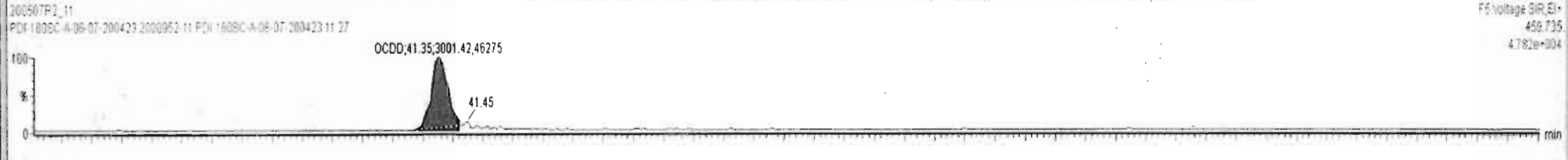
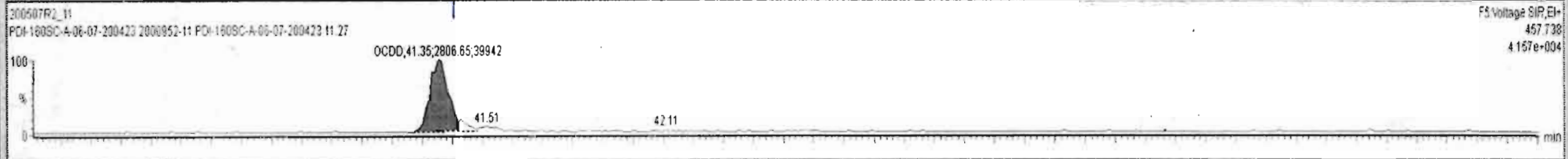
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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	5.81e3	0.94	NO	0.9335	10.024	41.35	1.000	7.02		0.164	7.02
8 2,3,7,8-TCDF			NO	0.7871	10.024					0.0475	
9 1,2,3,7,8-PeCDF			NO	0.9102	10.024					0.0469	
10 2,3,4,7,8-PeCDF			NO	0.9664	10.024					0.0431	
11 1,2,3,4,7,8-HxCDF			NO	0.8782	10.024					0.0379	
12 1,2,3,6,7,8-HxCDF			NO	0.8740	10.024					0.0356	
13 2,3,4,6,7,8-HxCDF			NO	0.9217	10.024					0.0382	

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

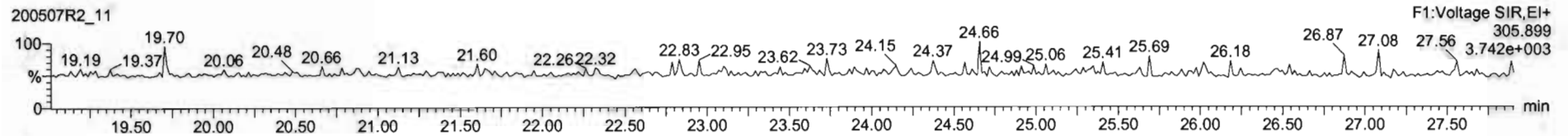
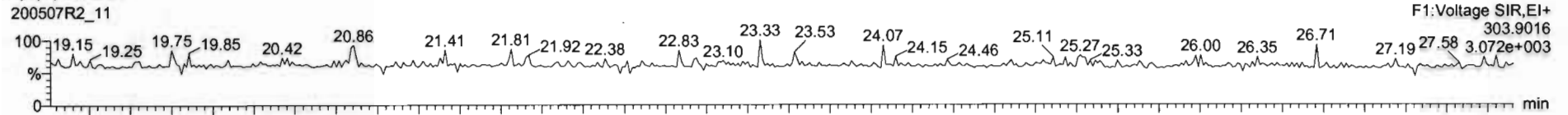


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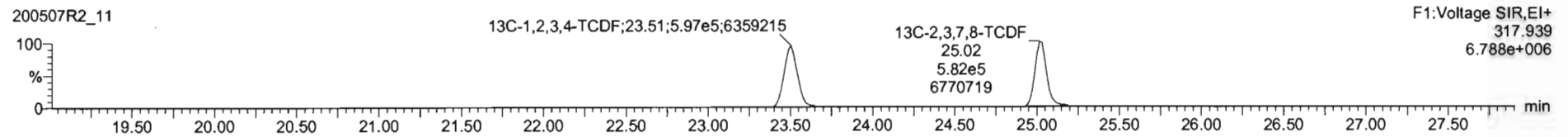
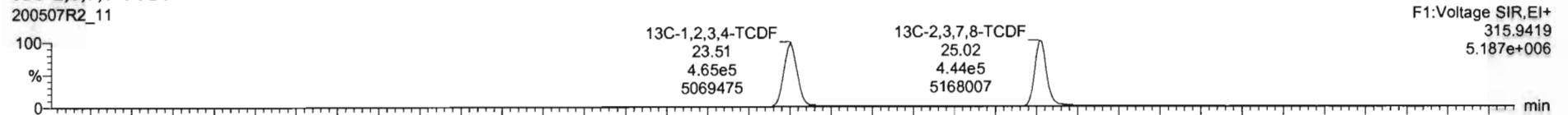
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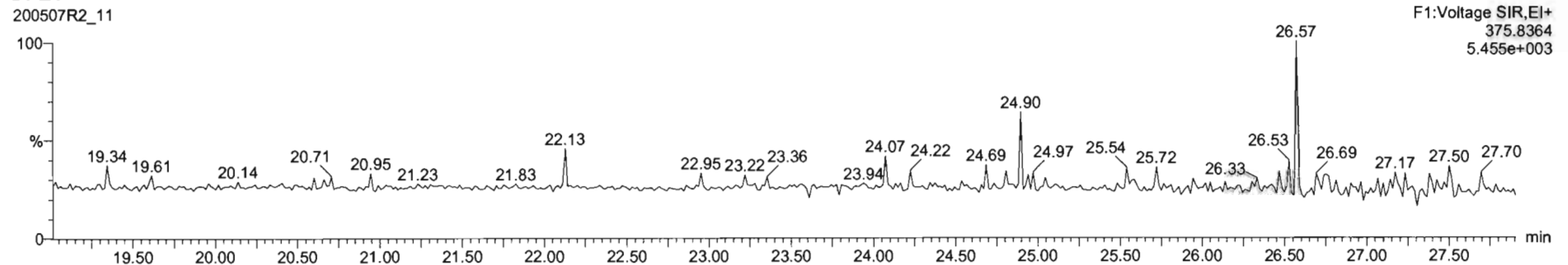
2,3,7,8-TCDF



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



DPE1



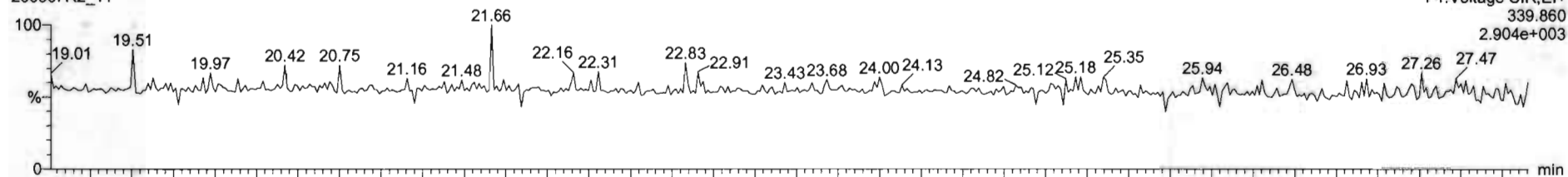
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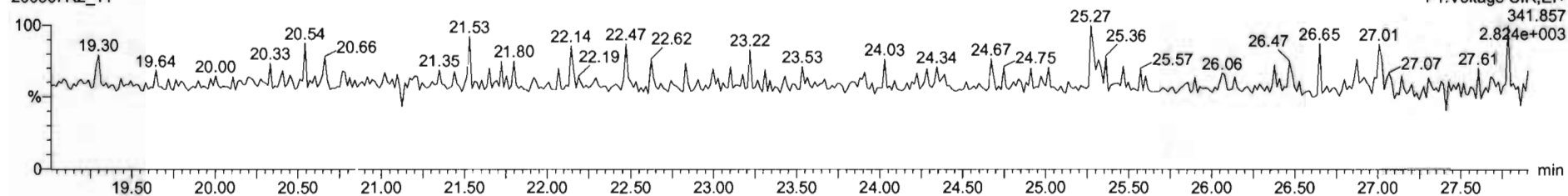
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1st Func. Penta-Furans

200507R2_11

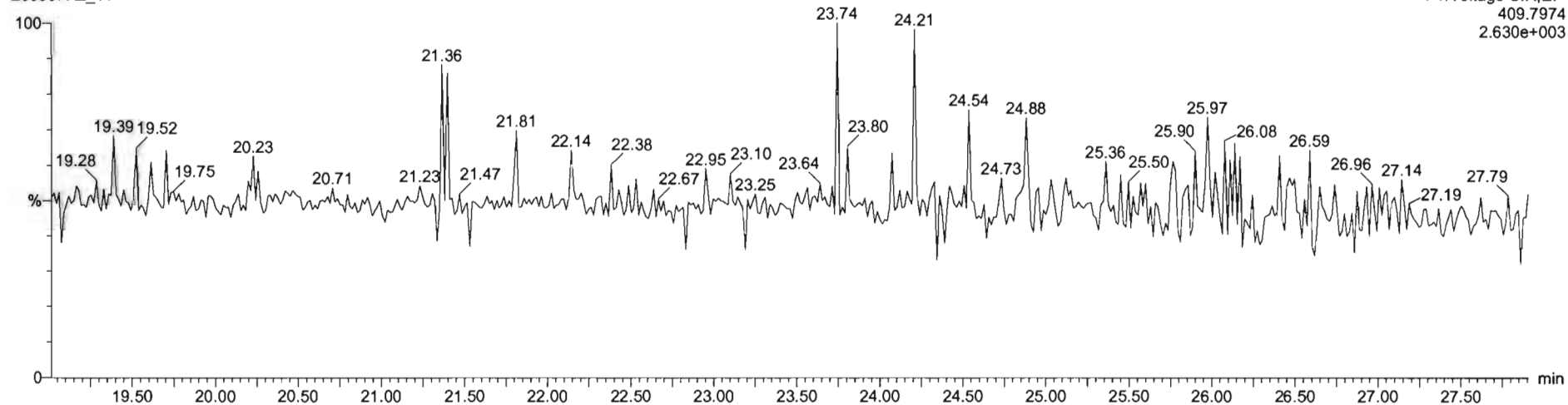


200507R2_11



DPE6

200507R2_11

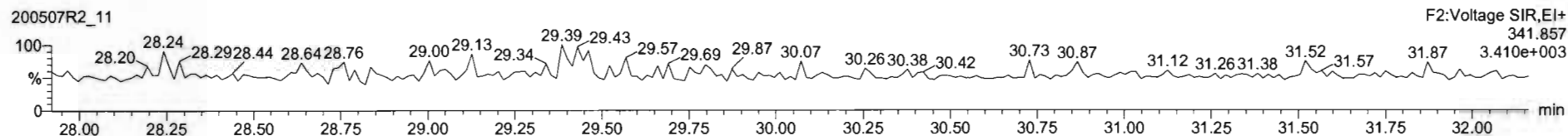
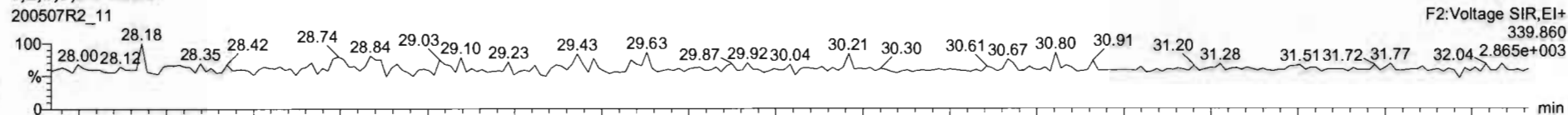


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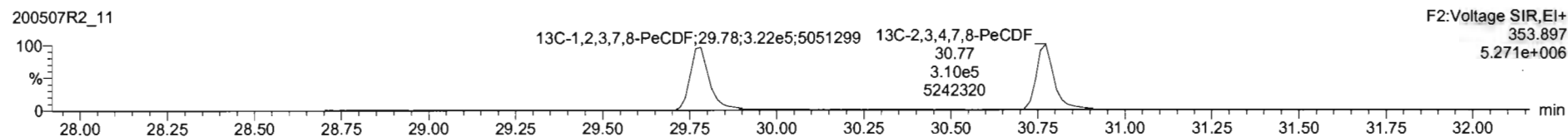
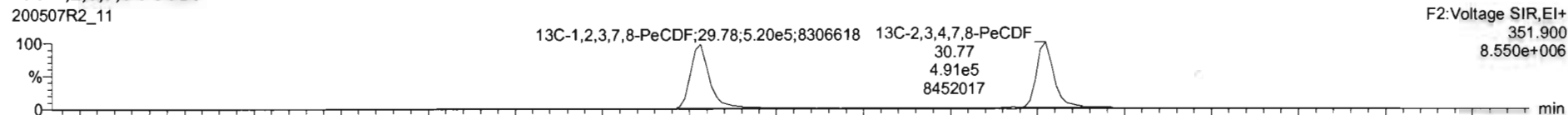
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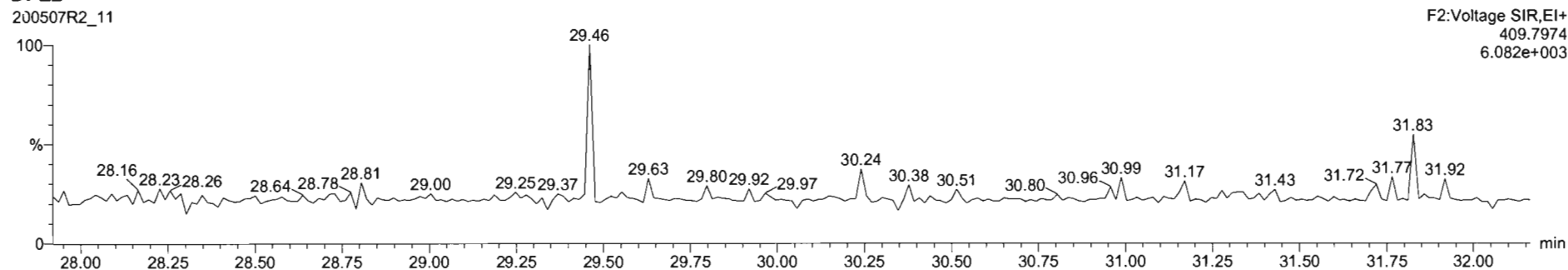
1,2,3,7,8-PeCDF



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



DPE2

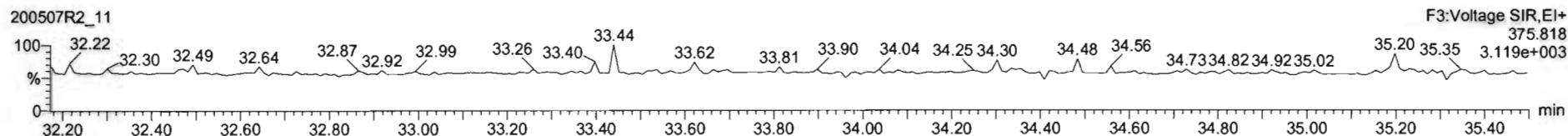
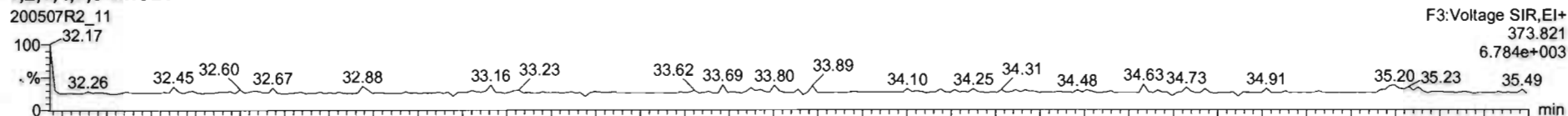


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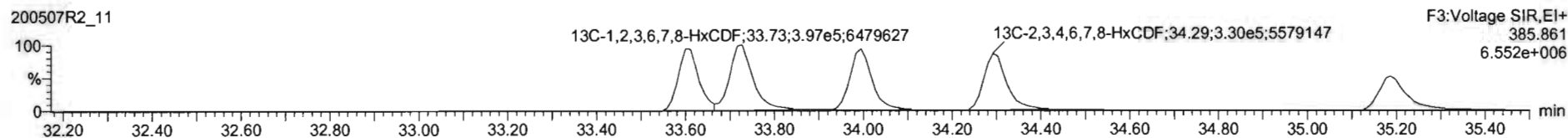
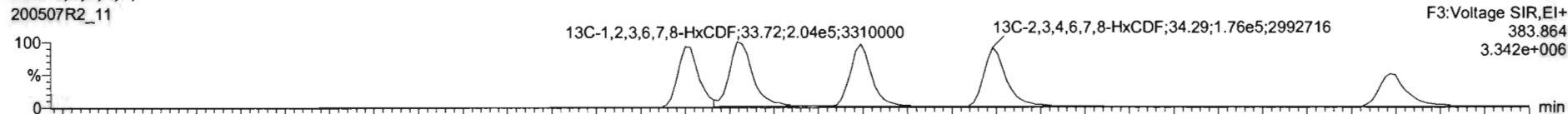
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Name: 200507R2_11, Date: 07-May-2020, Time: 22:15:10, ID: 2000952-11 PDI-160SC-A-06-07-200423 11.27, Description: PDI-160SC-A-06-07-200423

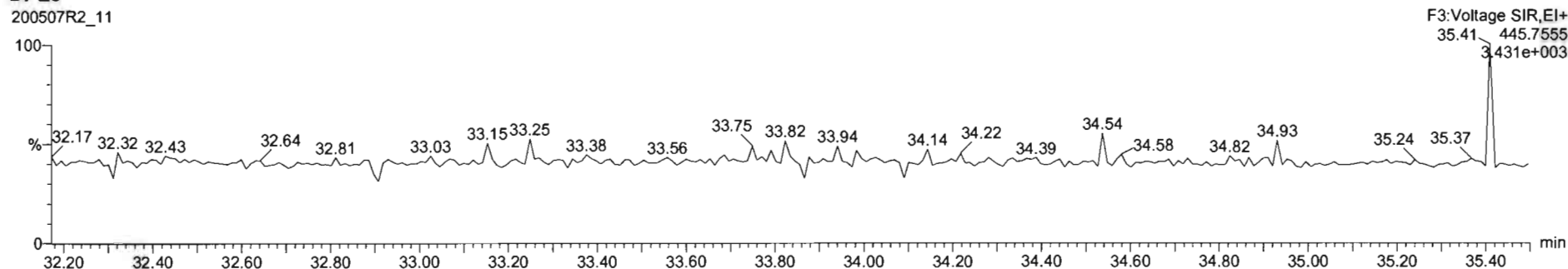
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13C-1,2,3,4,7,8-HxCDF



DPE3

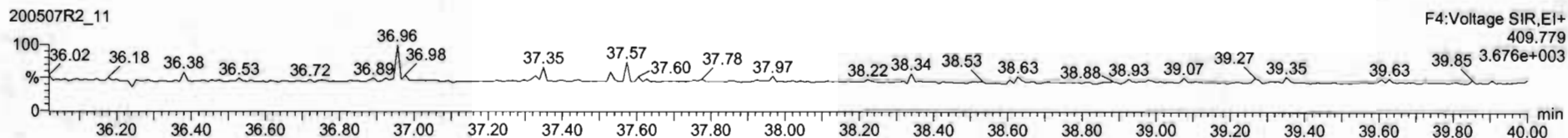
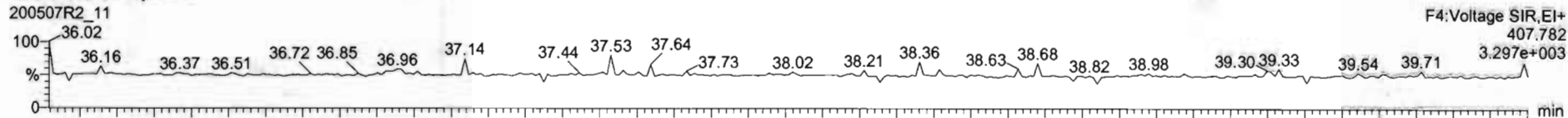


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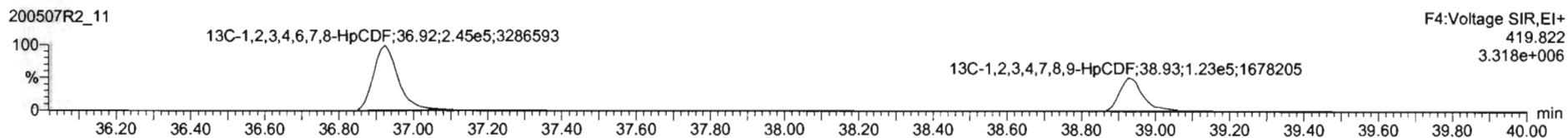
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Name: 200507R2_11, Date: 07-May-2020, Time: 22:15:10, ID: 2000952-11 PDI-160SC-A-06-07-200423 11.27, Description: PDI-160SC-A-06-07-200423

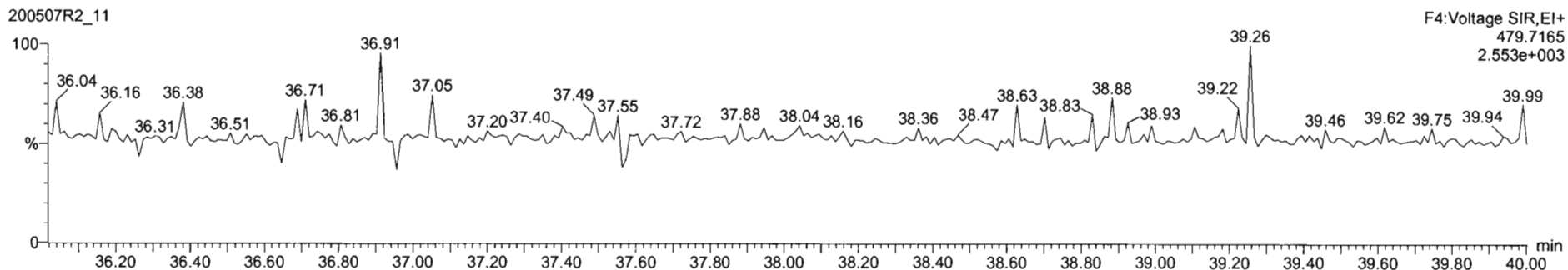
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13C-1,2,3,4,6,7,8-HpCDF



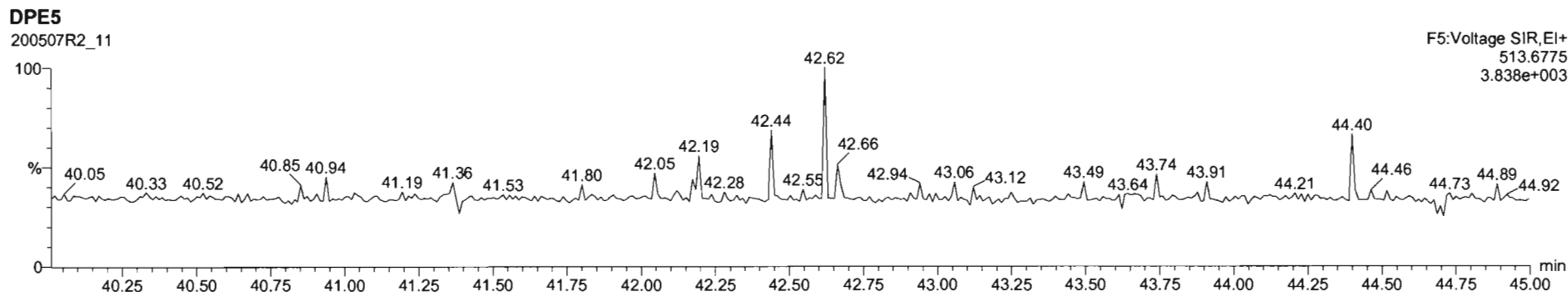
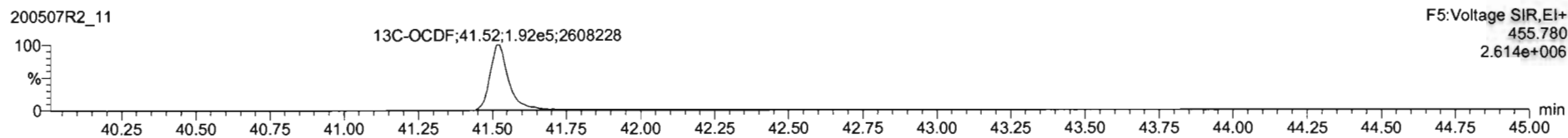
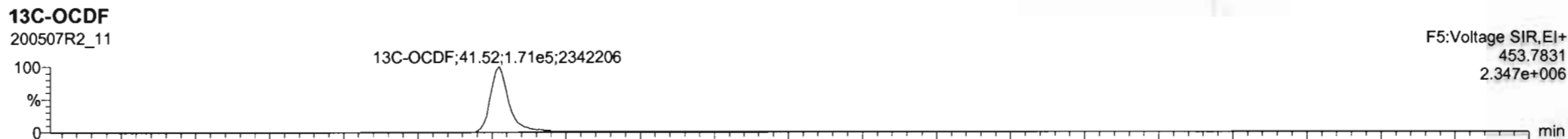
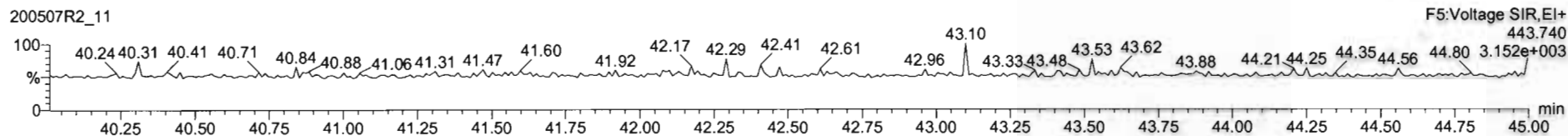
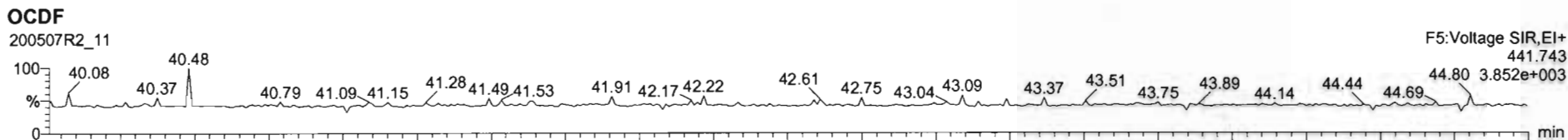
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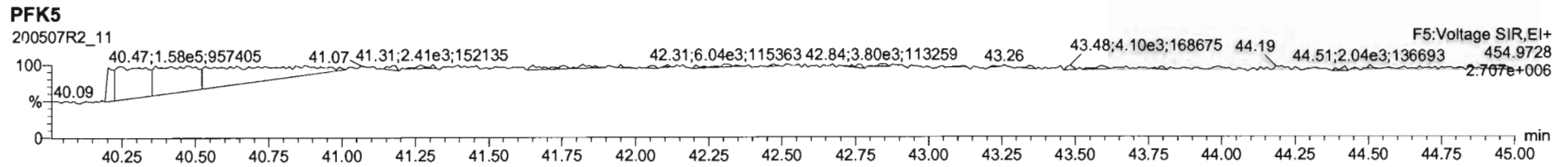
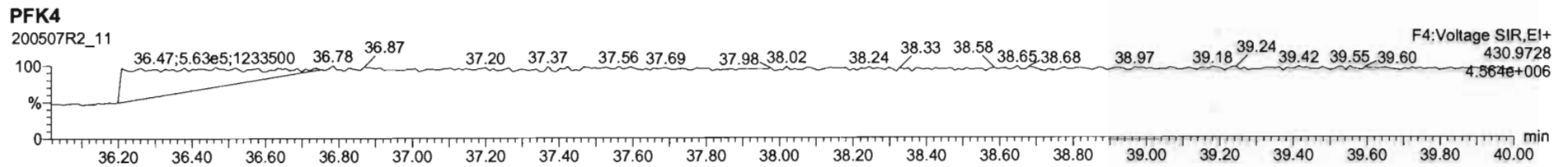
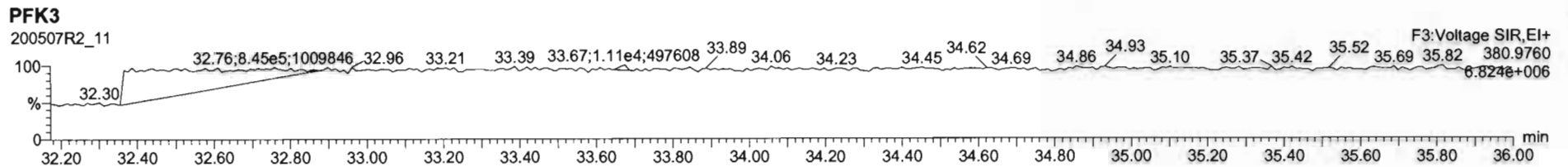
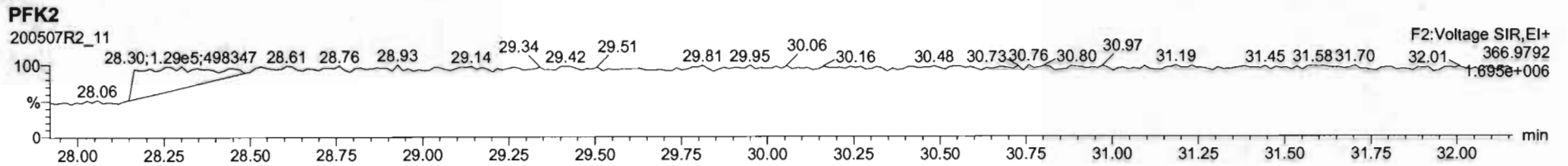
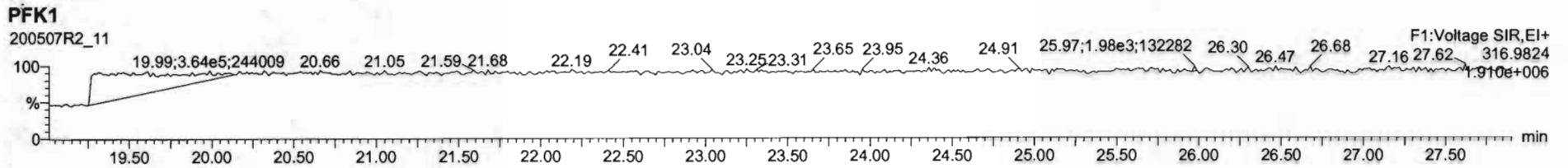
Name: 200507R2_11, Date: 07-May-2020, Time: 22:15:10, ID: 2000952-11 PDI-160SC-A-06-07-200423 11.27, Description: PDI-160SC-A-06-07-200423



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Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
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Name: 200507R2_11, Date: 07-May-2020, Time: 22:15:10, ID: 2000952-11 PDI-160SC-A-06-07-200423 11.27, Description: PDI-160SC-A-06-07-200423



Dataset: U:\VG12.PRO\Results\200507R2\200507R2-12.qld

Last Altered: Friday, May 08, 2020 13:11:34 Pacific Daylight Time
Printed: Friday, May 08, 2020 13:16:42 Pacific Daylight Time

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

Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.027	26.006		1.001				0.0804	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.027	31.116		1.001				0.0957	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.027	34.473		1.000				0.0834	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.027	34.569		1.000				0.0860	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.027	34.856		1.000				0.101	
6	6 1,2,3,4,6,7,8-HpCDD	6.15e2	0.84	YES	0.898	10.027	38.351	38.34	1.000	1.000	0.4753		0.177	0.427
7	7 OCDD	2.84e3	0.85	NO	0.933	10.027	41.343	41.35	1.000	1.000	3.1009		0.132	3.10
8	8 2,3,7,8-TCDF			NO	0.787	10.027	25.057		1.001				0.0483	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.027	29.803		1.001				0.0374	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.027	30.805		1.001				0.0348	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.027	33.611		1.000				0.0418	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.027	33.738		1.000				0.0378	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.027	34.337		1.001				0.0449	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.027	35.187		1.000				0.0772	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.027	36.960		1.001				0.0520	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.027	38.925		1.000				0.0856	
17	17 OCDF			NO	0.802	10.027	41.513		1.000				0.199	
18	18 13C-2,3,7,8-TCDD	7.99e5	0.77	NO	1.16	10.027	25.969	25.98	1.026	1.027	193.56	97.0	0.342	
19	19 13C-1,2,3,7,8-PeCDD	5.82e5	0.63	NO	0.847	10.027	31.049	31.09	1.227	1.229	192.77	96.6	0.419	
20	20 13C-1,2,3,4,7,8-HxCDD	3.83e5	1.29	NO	0.750	10.027	34.473	34.46	1.014	1.014	185.96	93.2	0.927	
21	21 13C-1,2,3,6,7,8-HxCDD	5.08e5	1.25	NO	0.963	10.027	34.585	34.57	1.017	1.017	192.32	96.4	0.722	
22	22 13C-1,2,3,7,8,9-HxCDD	4.31e5	1.30	NO	0.838	10.027	34.854	34.85	1.025	1.025	187.38	93.9	0.830	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.86e5	1.03	NO	0.641	10.027	38.342	38.34	1.128	1.128	162.48	81.5	0.991	
24	24 13C-OCDD	3.92e5	0.90	NO	0.586	10.027	41.333	41.34	1.216	1.216	243.51	61.0	0.527	
25	25 13C-2,3,7,8-TCDF	1.04e6	0.78	NO	1.03	10.027	25.030	25.03	0.989	0.989	184.59	92.5	0.629	
26	26 13C-1,2,3,7,8-PeCDF	9.05e5	1.55	NO	0.845	10.027	29.741	29.78	1.176	1.177	197.39	99.0	0.916	
27	27 13C-2,3,4,7,8-PeCDF	8.37e5	1.60	NO	0.814	10.027	30.731	30.77	1.215	1.216	189.61	95.1	0.951	
28	28 13C-1,2,3,4,7,8-HxCDF	5.29e5	0.50	NO	1.00	10.027	33.613	33.61	0.989	0.989	191.68	96.1	0.913	
29	29 13C-1,2,3,6,7,8-HxCDF	6.64e5	0.50	NO	1.14	10.027	33.736	33.73	0.992	0.992	212.97	107	0.807	
30	30 13C-2,3,4,6,7,8-HxCDF	5.47e5	0.52	NO	1.02	10.027	34.303	34.30	1.009	1.009	195.02	97.8	0.897	
31	31 13C-1,2,3,7,8,9-HxCDF	4.06e5	0.51	NO	0.845	10.027	35.194	35.19	1.035	1.035	175.34	87.9	1.09	

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-12.qld

Last Altered: Friday, May 08, 2020 13:11:34 Pacific Daylight Time

Printed: Friday, May 08, 2020 13:16:42 Pacific Daylight Time

Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.73e5	0.42	NO	0.771	10.027	36.924	36.92	1.086	1.086	176.05	88.3	1.12	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.94e5	0.42	NO	0.482	10.027	38.933	38.92	1.145	1.145	146.28	73.3	1.80	
34	34 13C-OCDF	3.70e5	0.89	NO	0.669	10.027	41.503	41.51	1.221	1.221	201.68	50.6	0.454	
35	35 37Cl-2,3,7,8-TCDD	2.86e5			1.10	10.027	25.999	26.00	1.028	1.028	73.208	91.8	0.104	
36	36 13C-1,2,3,4-TCDD	7.10e5	0.80	NO	1.00	10.027	25.350	25.30	1.000	1.000	199.46	100	0.397	
37	37 13C-1,2,3,4-TCDF	1.08e6	0.76	NO	1.00	10.027	23.560	23.52	1.000	1.000	199.46	100	0.650	
38	38 13C-1,2,3,4,6,9-HxCDF	5.47e5	0.50	NO	1.00	10.027	34.000	33.99	1.000	1.000	199.46	100	0.917	
39	39 Total Tetra-Dioxins				0.947	10.027	24.620		0.000				0.0496	
40	40 Total Penta-Dioxins				0.942	10.027	29.960		0.000				0.0399	
41	41 Total Hexa-Dioxins				0.915	10.027	33.635		0.000		0.47750		0.0942	0.576
42	42 Total Hepta-Dioxins				0.898	10.027	37.640		0.000		0.87193		0.177	1.30
43	43 Total Tetra-Furans				0.787	10.027	23.610		0.000				0.0211	
44	44 1st Func. Penta-Furans				0.910	10.027	27.090		0.000				0.00967	
45	45 Total Penta-Furans				0.910	10.027	29.275		0.000				0.0139	
46	46 Total Hexa-Furans				0.922	10.027	33.555		0.000				0.0236	
47	47 Total Hepta-Furans				0.871	10.027	37.835		0.000				0.0321	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-12.qld

Last Altered: Friday, May 08, 2020 13:11:34 Pacific Daylight Time

Printed: Friday, May 08, 2020 13:16:42 Pacific Daylight Time

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

Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	1.067e4	7.682e3	5.036e2	4.608e2	1.09	NO	9.644e2	0.47750	0.47750	0.0942
2	Total Hexa-Dioxins	33.80	3.282e3	3.915e3	1.100e2	1.076e2	1.02	YES	0.000e0	0.00000	0.098389	0.0942

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.31	8.018e3	9.990e3	5.701e2	5.524e2	1.03	NO	1.123e3	0.87193	0.87193	0.177
2	1,2,3,4,6,7,8-HpCDD	38.34	5.162e3	4.693e3	2.802e2	3.350e2	0.84	YES	6.152e2	0.00000	0.42690	0.177

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\200507R2\200507R2-12.qld

Last Altered: Friday, May 08, 2020 13:11:34 Pacific Daylight Time

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Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
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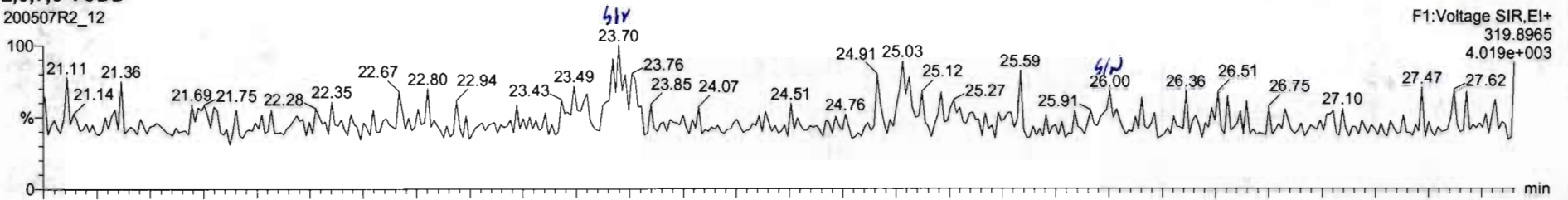
Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
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dy 05-08-2020

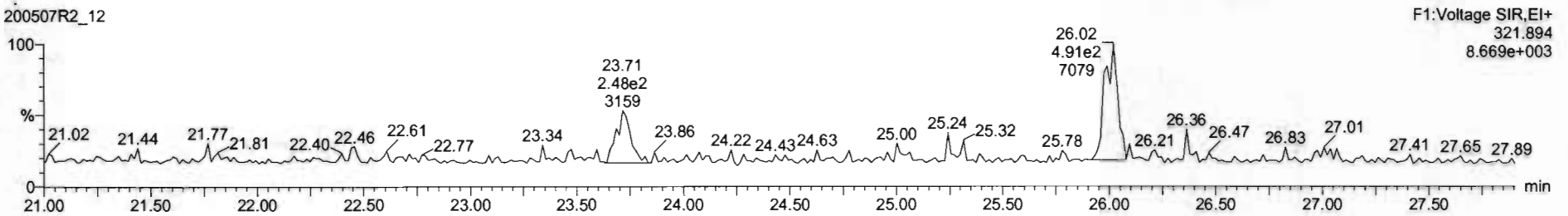
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2,3,7,8-TCDD

200507R2_12

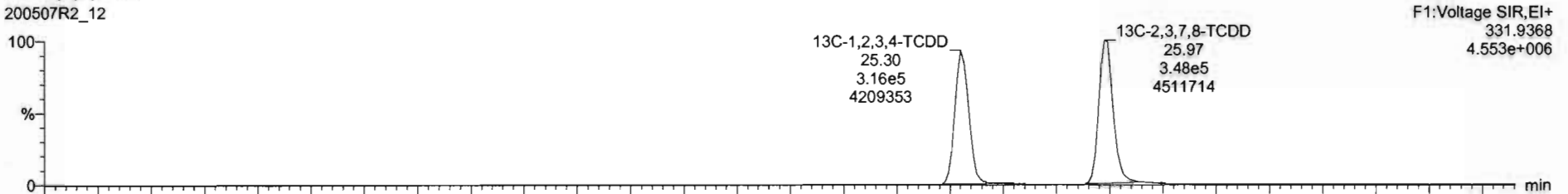


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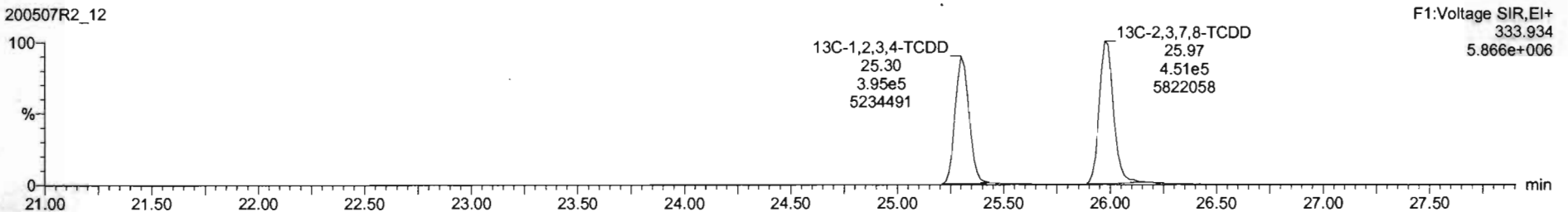


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200507R2_12

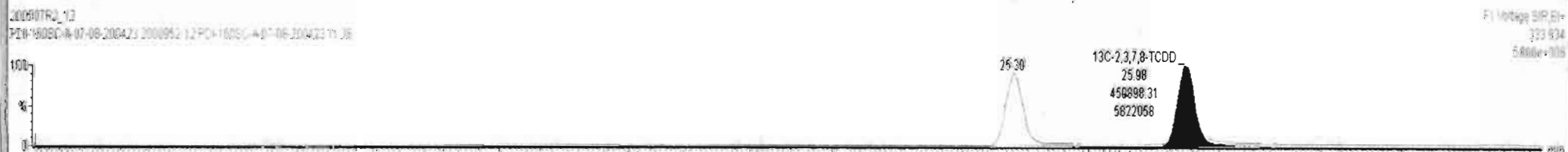
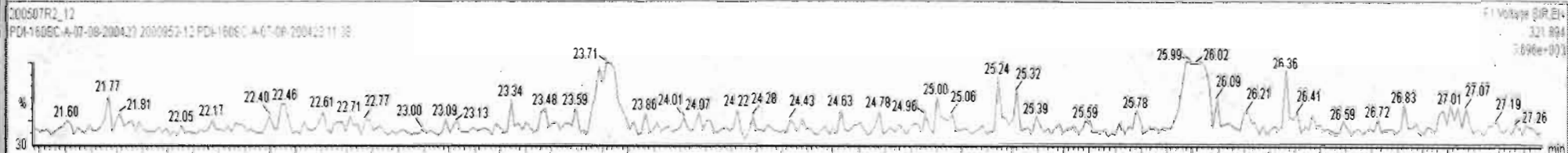
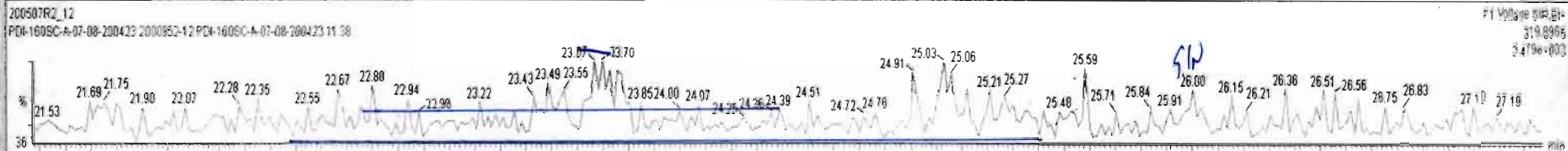


200507R2_12



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.027					0.0496	
40 Total Penta-Dioxins				0.9425	10.027					0.0399	
41 Total Hexa-Dioxins				0.9145	10.027			0.488		0.0942	0.488
42 Total Hepta-Dioxins				0.8979	10.027			0.000		0.107	1.24
43 Total Tetra-Furans				0.7874	10.027					0.0714	

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



Dataset: Untitled

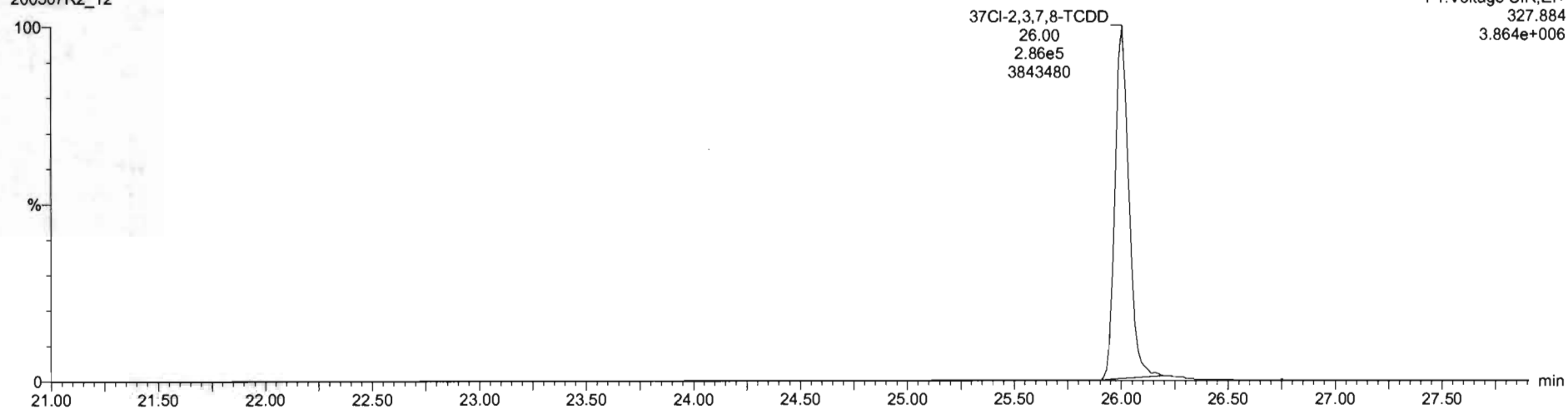
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423

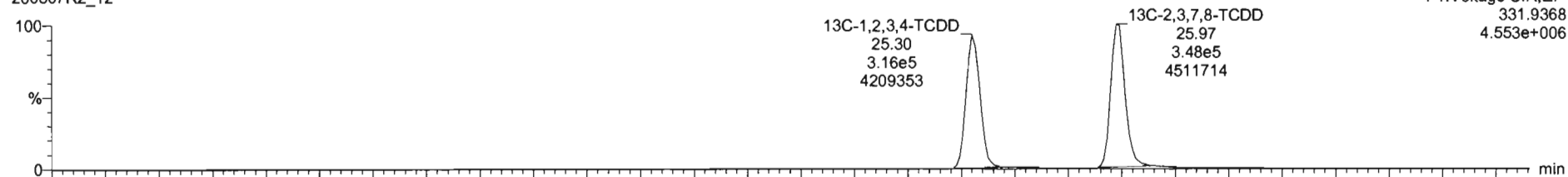
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200507R2_12

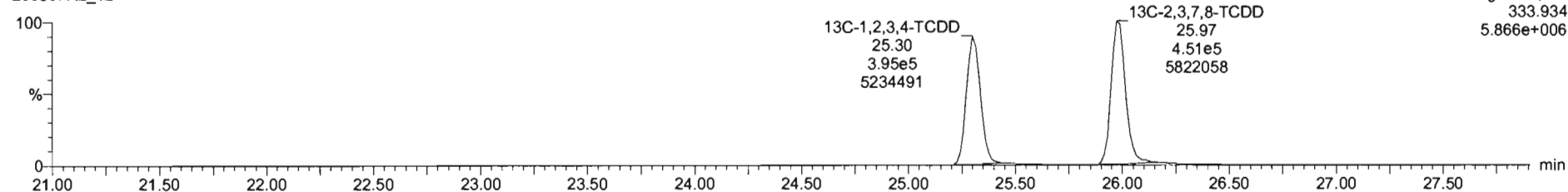


13C-1,2,3,4-TCDD

200507R2_12



200507R2_12



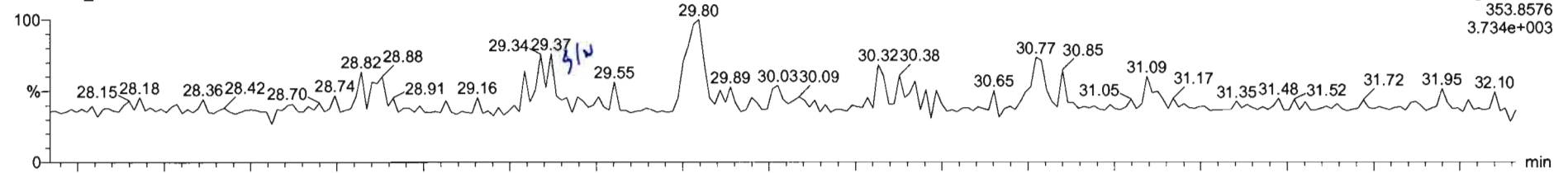
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

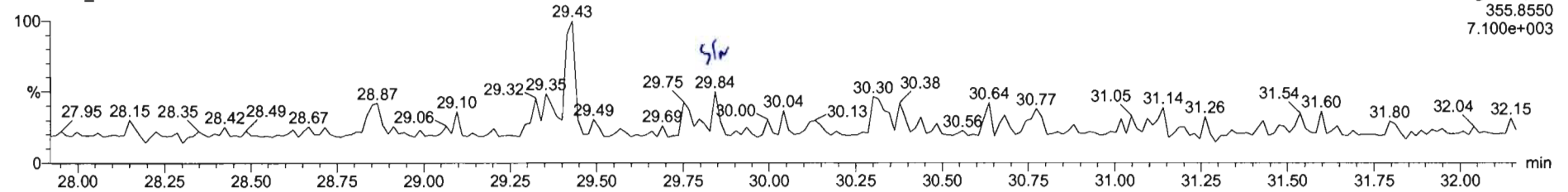
Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423

1,2,3,7,8-PeCDD

200507R2_12

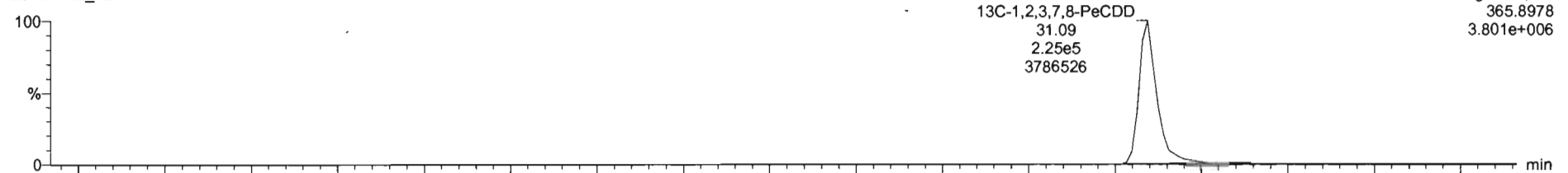


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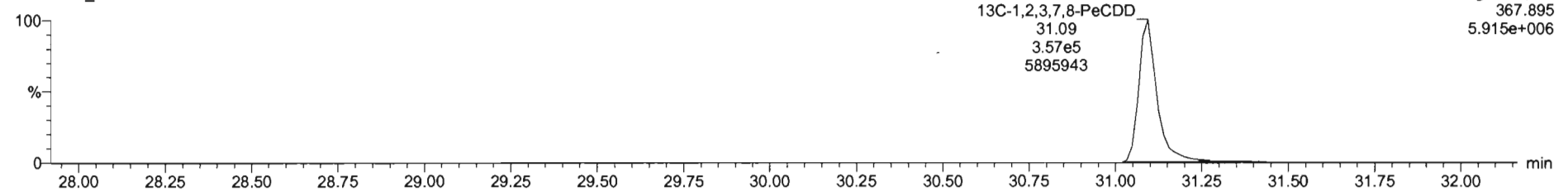


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200507R2_12



200507R2_12



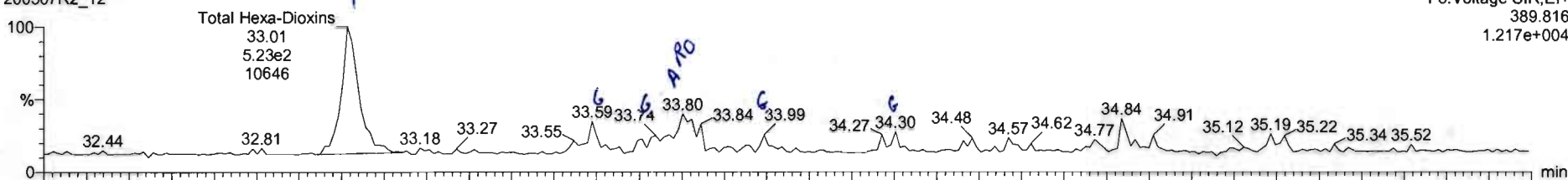
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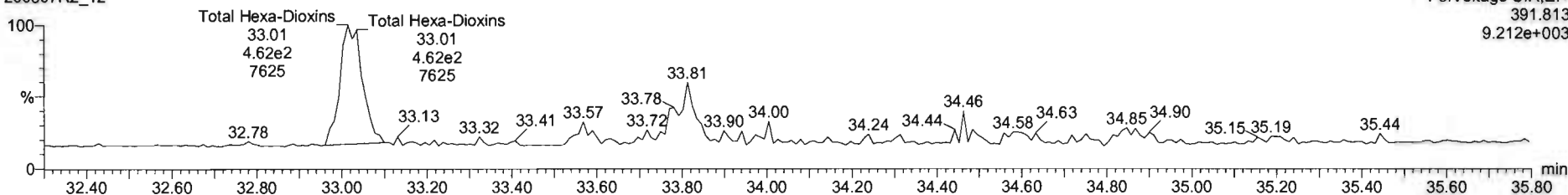
Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423

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

200507R2_12

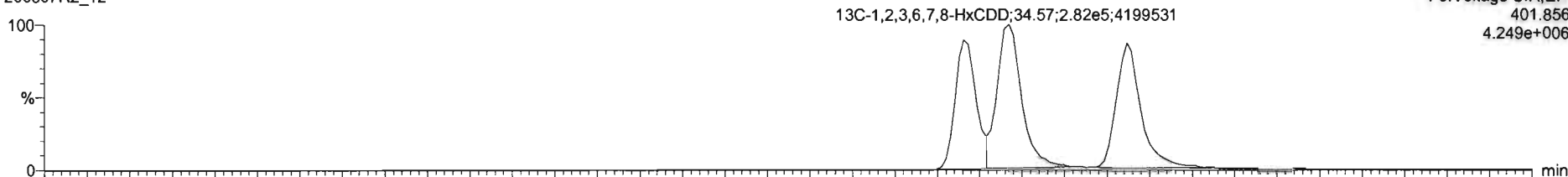


200507R2_12

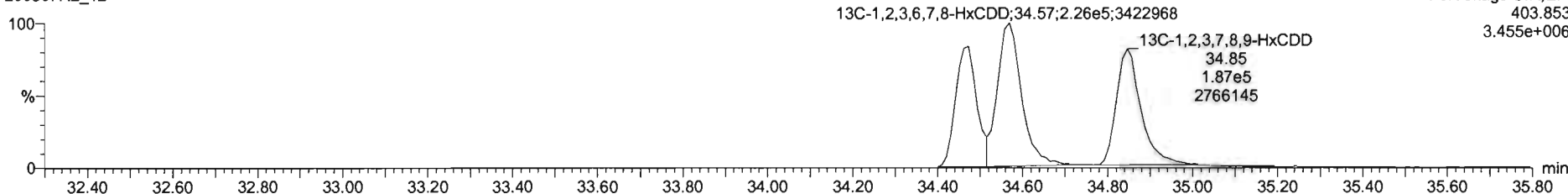


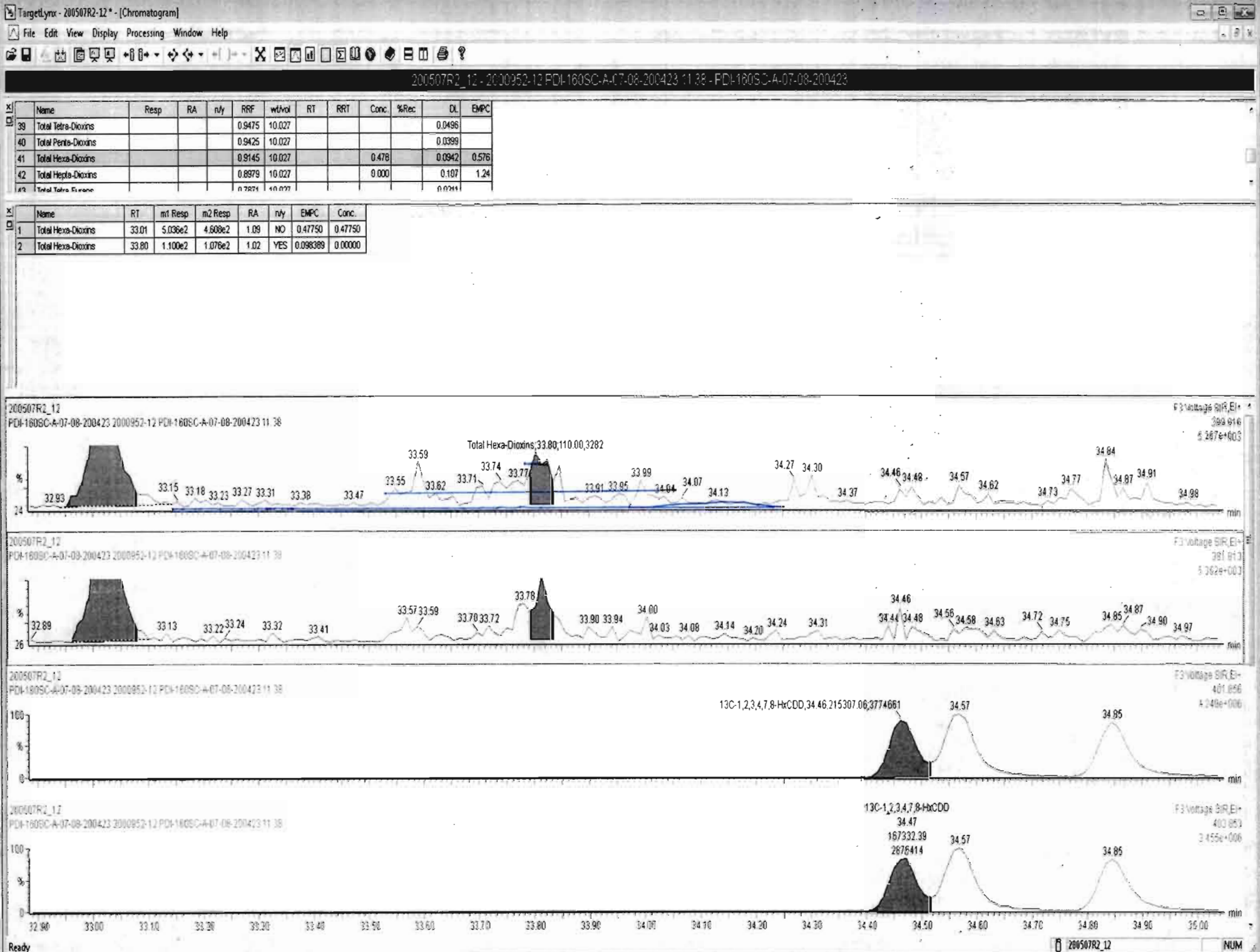
13C-1,2,3,4,7,8-HxCDD

200507R2_12



200507R2_12





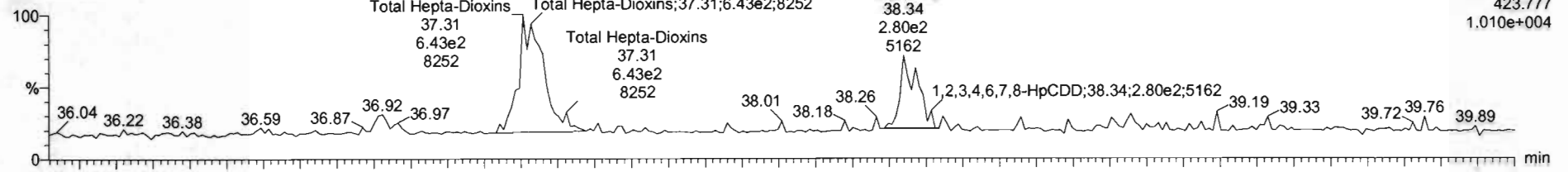
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

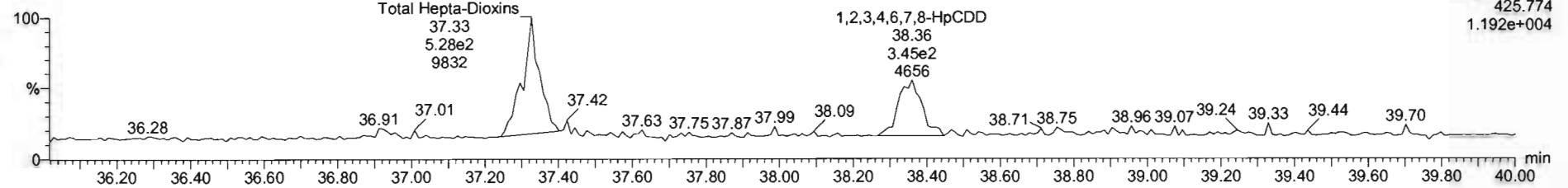
Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423

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

200507R2_12

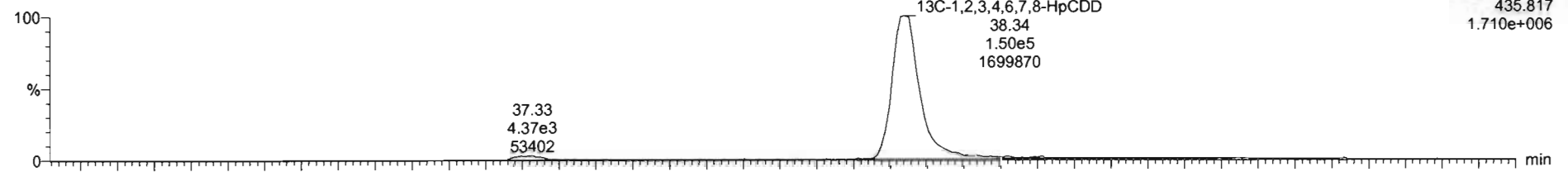


200507R2_12

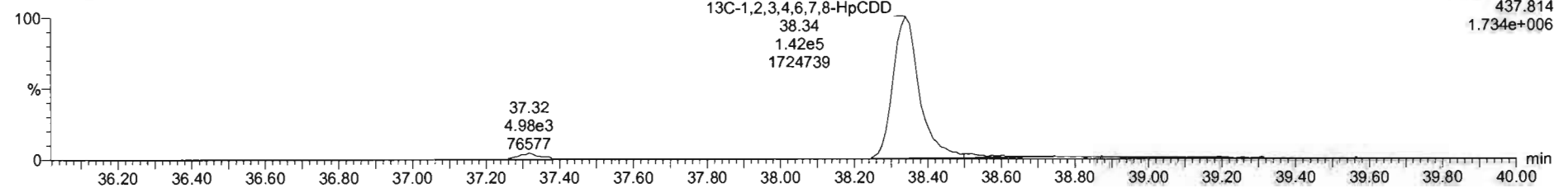


13C-1,2,3,4,6,7,8-HpCDD

200507R2_12

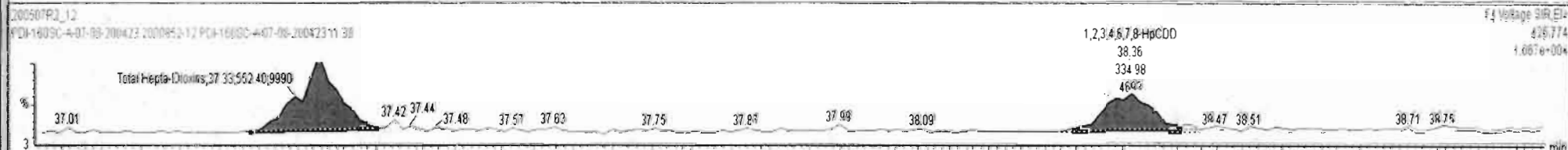
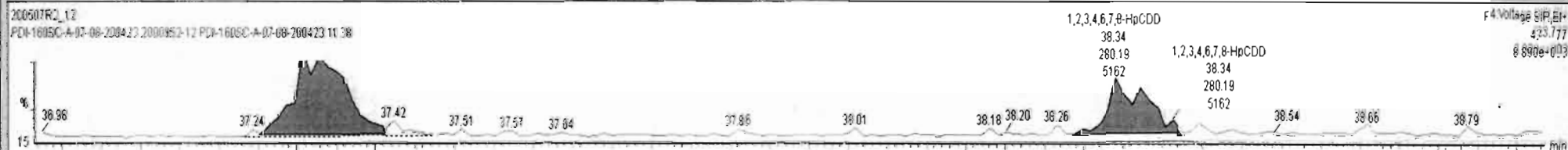


200507R2_12



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.027					0.0496	
40 Total Penta-Dioxins				0.9425	10.027					0.0399	
41 Total Hexa-Dioxins				0.9145	10.027			0.476		0.0942	0.576
42 Total Hepta-Dioxins				0.8979	10.027			0.872		0.177	1.30
43 Total Tetra-Furans				0.7824	10.027					0.0241	

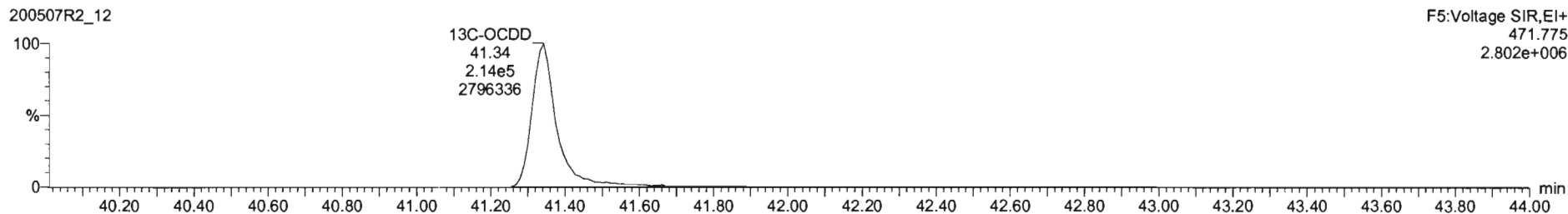
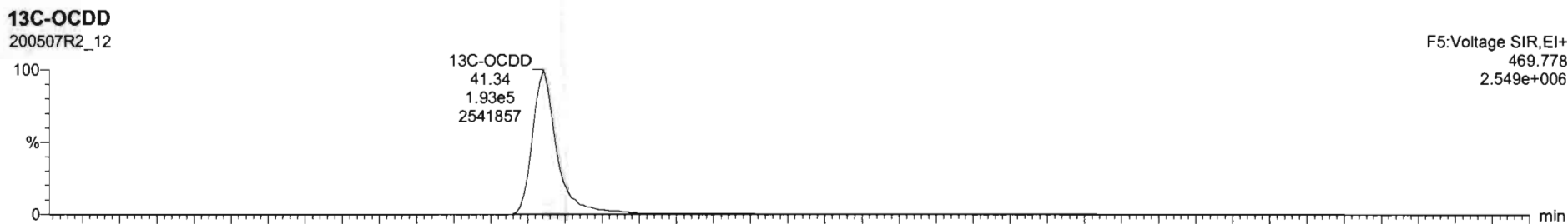
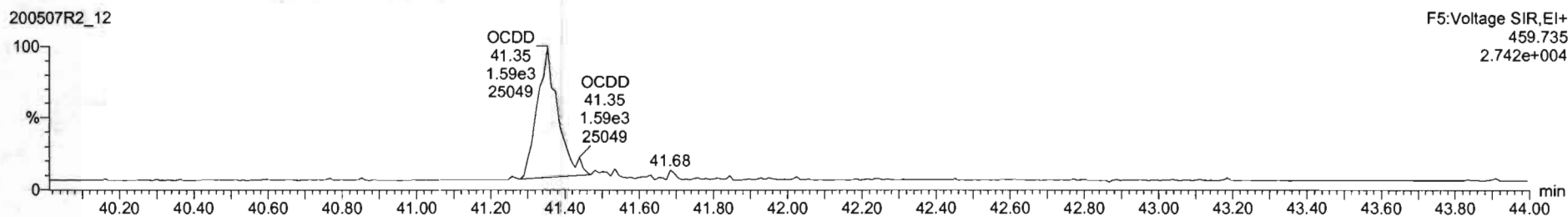
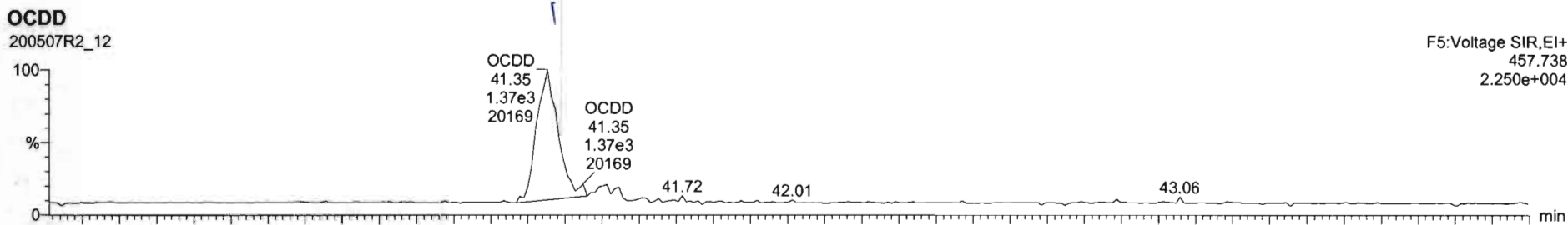
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hepta-Dioxins	37.31	5.701e2	5.524e2	1.03	NO	0.87193	0.87193
2 1,2,3,4,6,7,8-HpCDD	38.34	2.802e2	3.350e2	0.84	YES	0.42690	0.00000



Dataset: Untitled

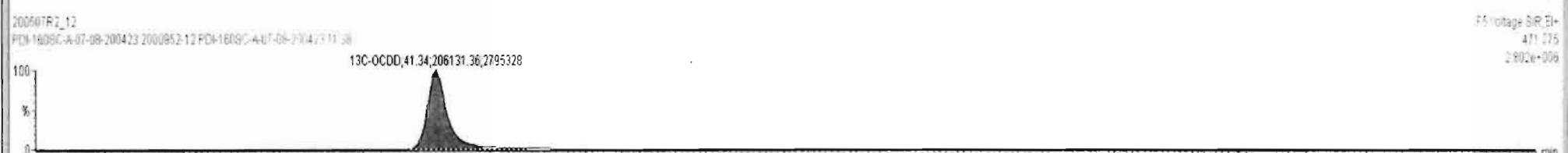
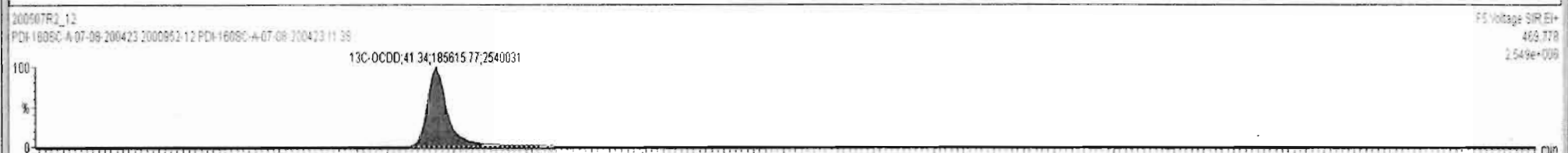
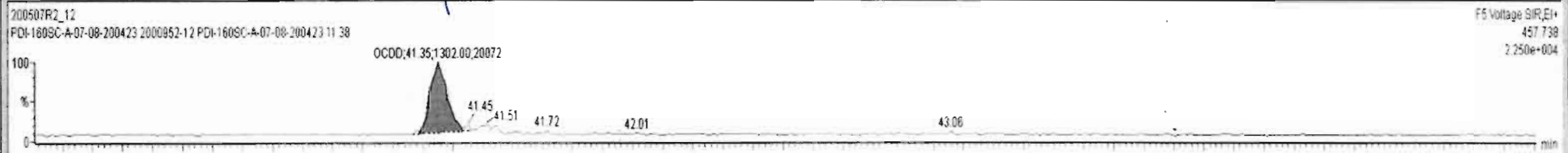
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
7	OCDD	2.84e3	0.85	NO	0.9335	10.027	41.35	1.000	3.10		0.132	3.10
8	2,3,7,8-TCDF			NO	0.7871	10.027					0.0483	
9	1,2,3,7,8-PeCDF			NO	0.9102	10.027					0.0374	
10	2,3,4,7,8-PeCDF			NO	0.9664	10.027					0.0348	
11	1,2,3,7,8-HxCDF			NO	0.8787	10.027					0.0418	

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



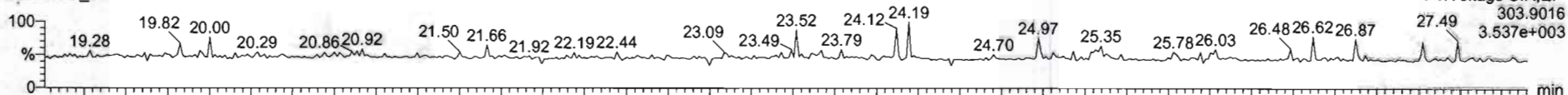
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Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

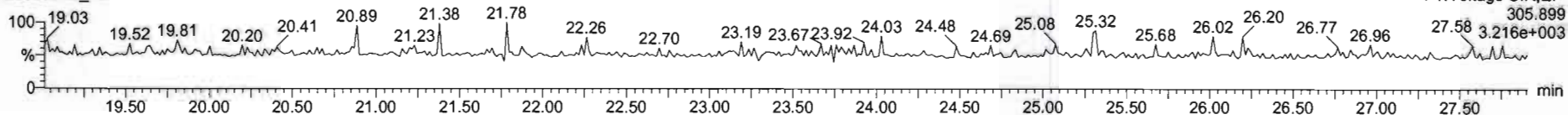
Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423

2,3,7,8-TCDF

200507R2_12

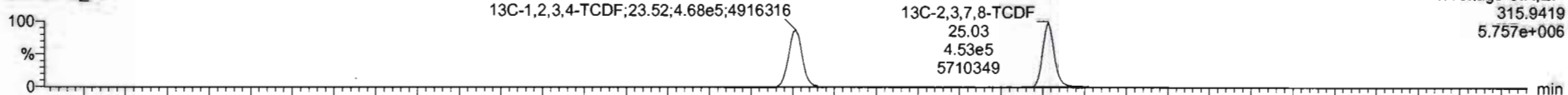


200507R2_12

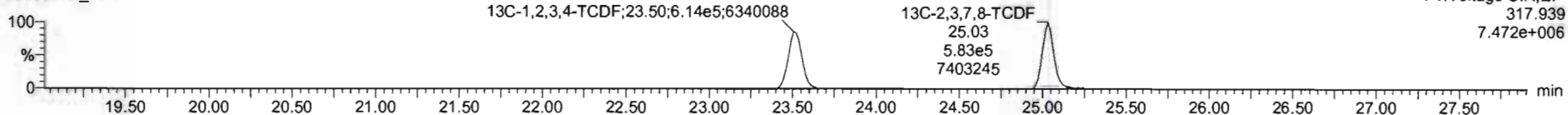


13C-2,3,7,8-TCDF

200507R2_12

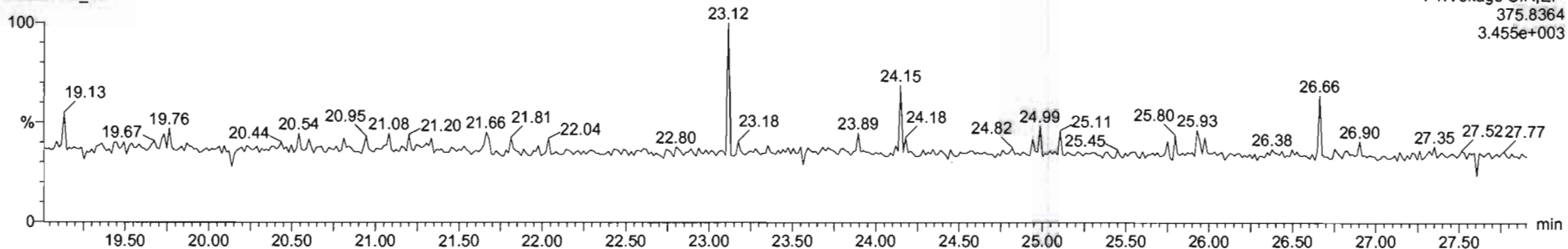


200507R2_12



DPE1

200507R2_12



Dataset: Untitled

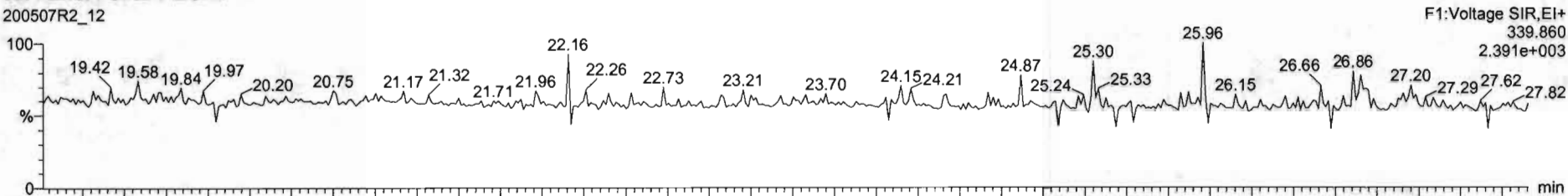
Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

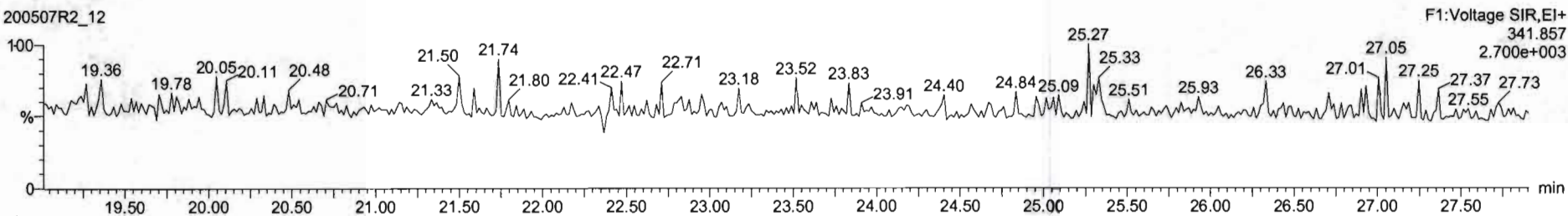
Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423

1st Func. Penta-Furans

200507R2_12

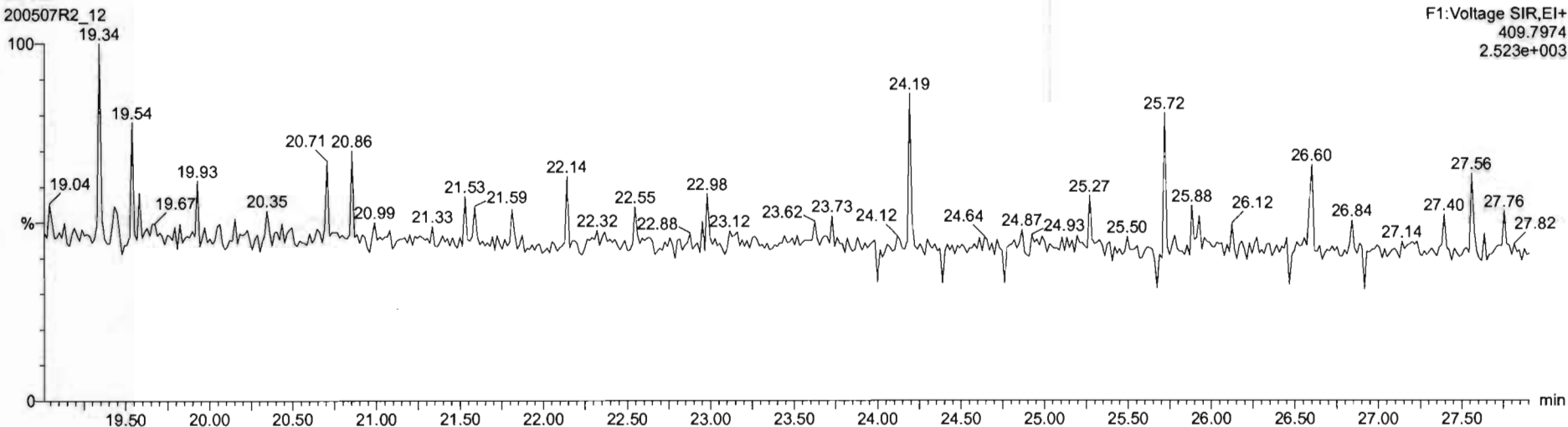


200507R2_12



DPE6

200507R2_12



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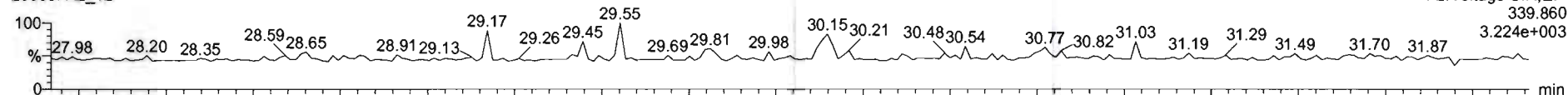
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

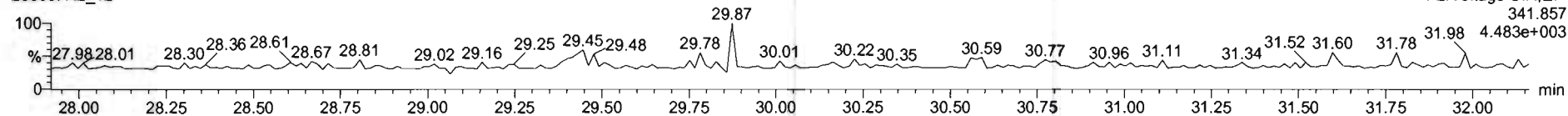
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1,2,3,7,8-PeCDF

200507R2_12



200507R2_12

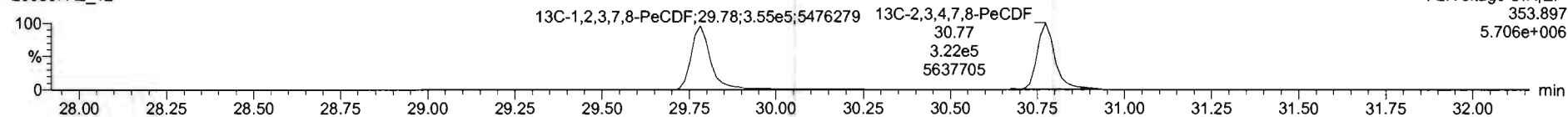


13C-1,2,3,7,8-PeCDF

200507R2_12

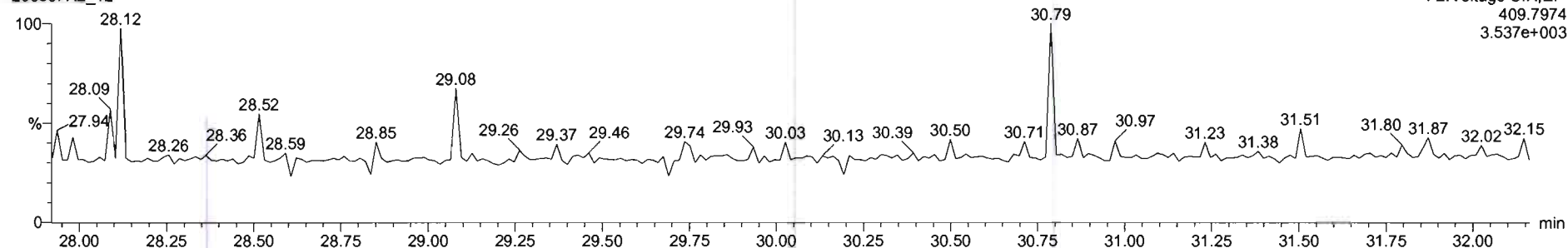


200507R2_12



DPE2

200507R2_12



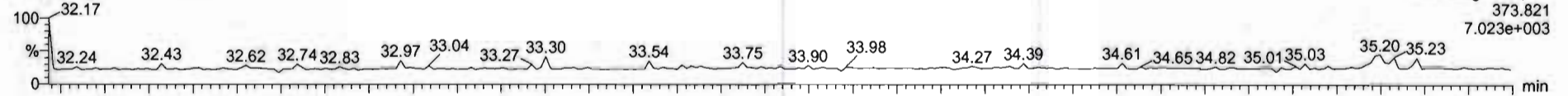
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

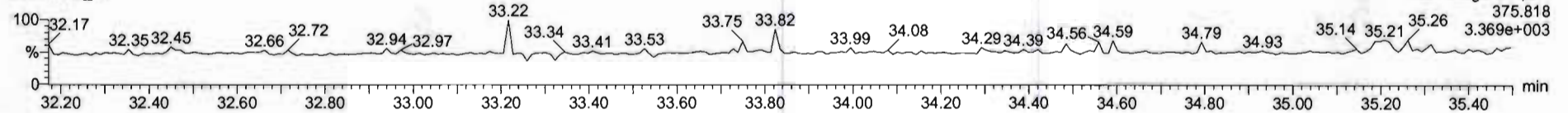
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1,2,3,4,7,8-HxCDF

200507R2_12

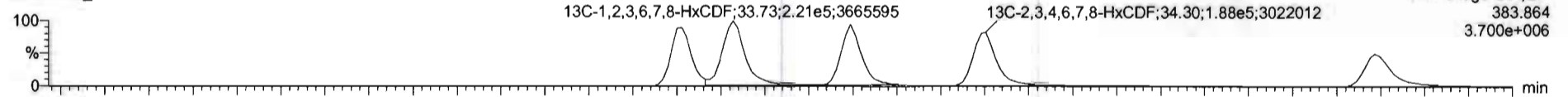


200507R2_12

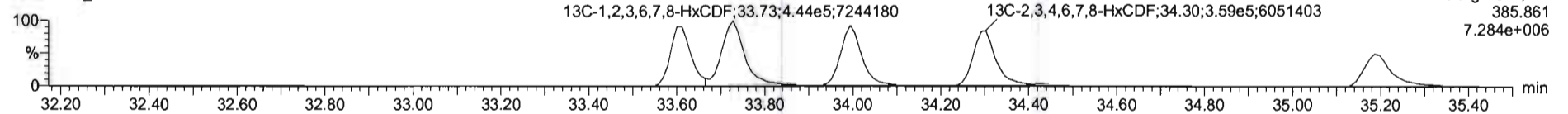


13C-1,2,3,4,7,8-HxCDF

200507R2_12

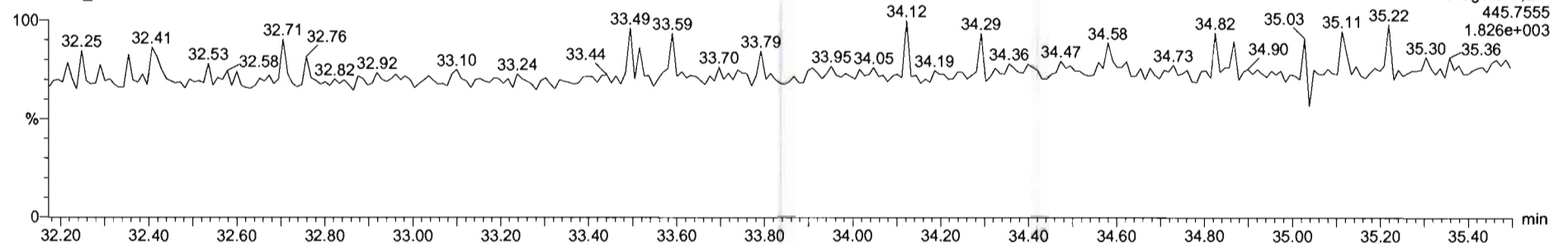


200507R2_12



DPE3

200507R2_12

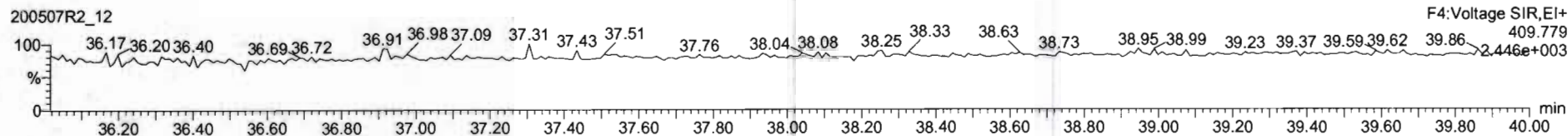
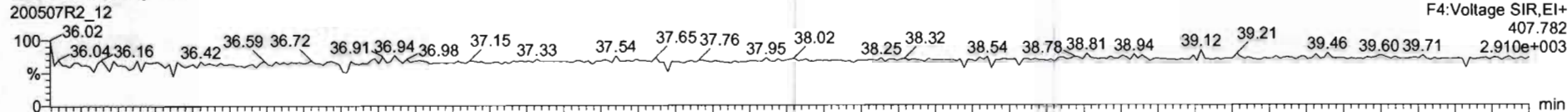


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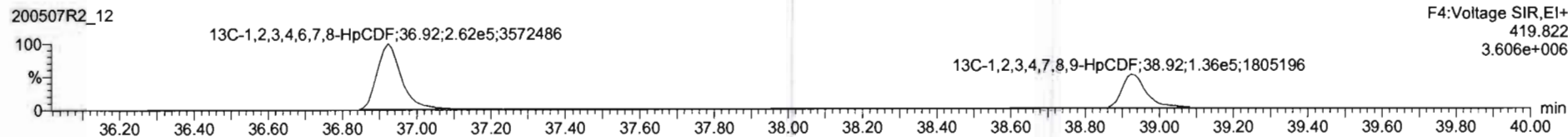
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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

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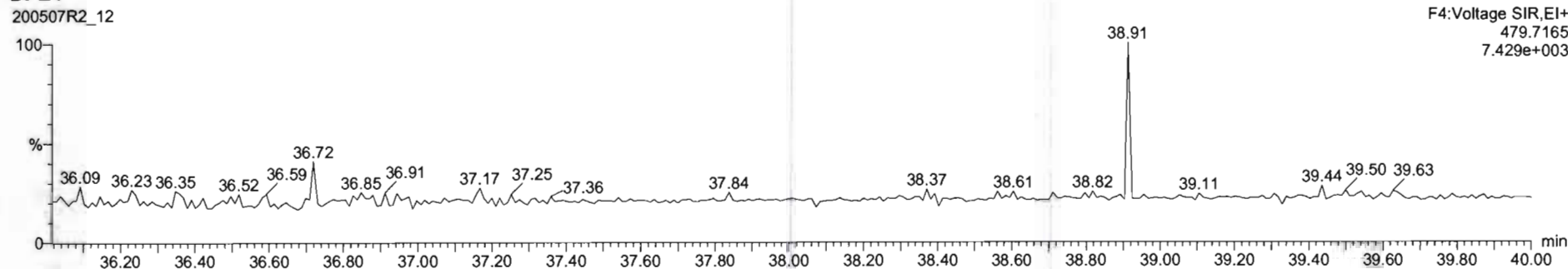
1,2,3,4,6,7,8-HpCDF



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



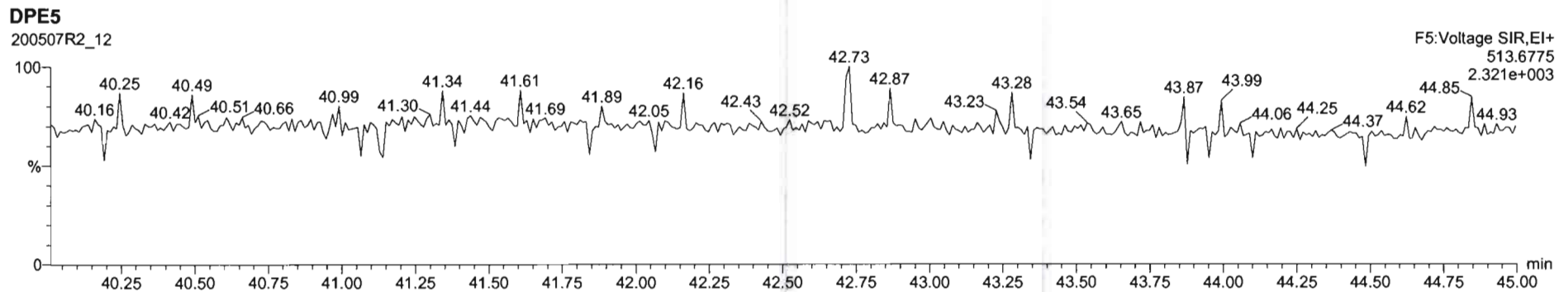
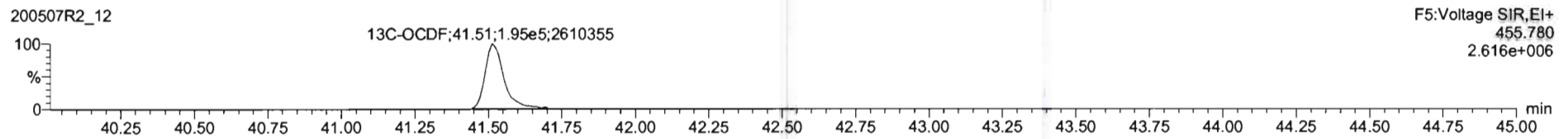
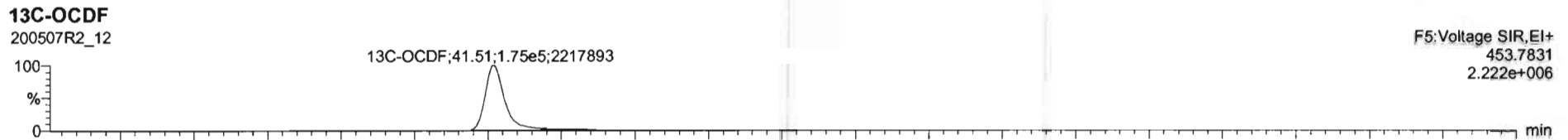
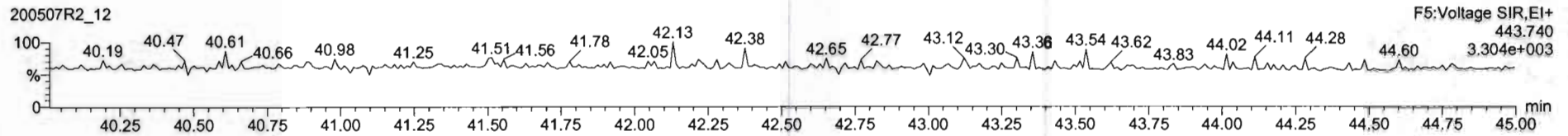
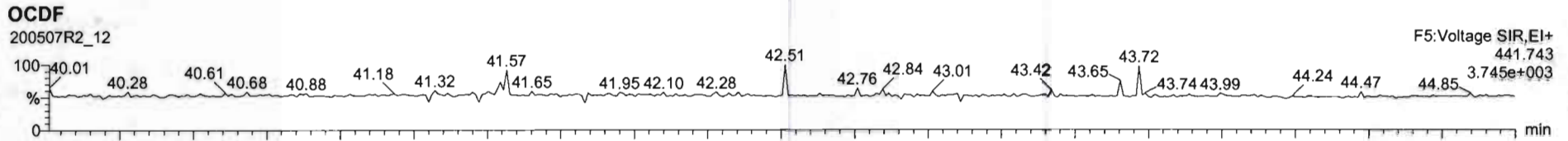
DPE4



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Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

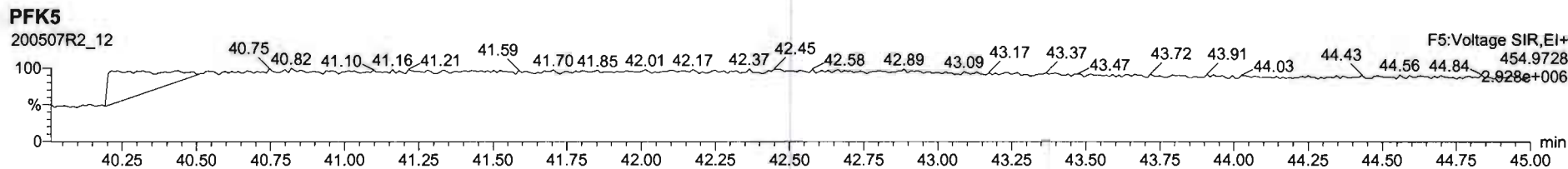
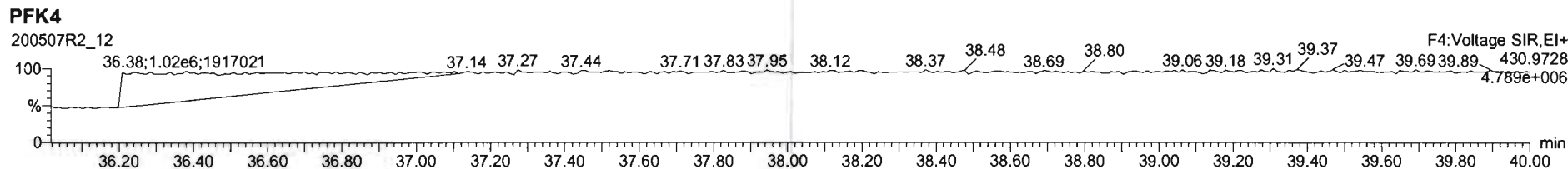
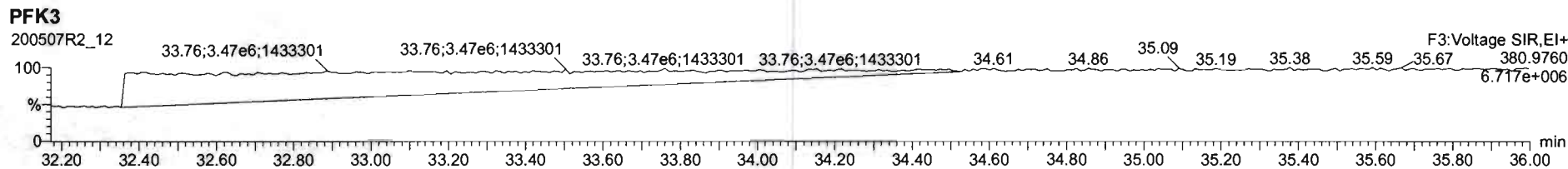
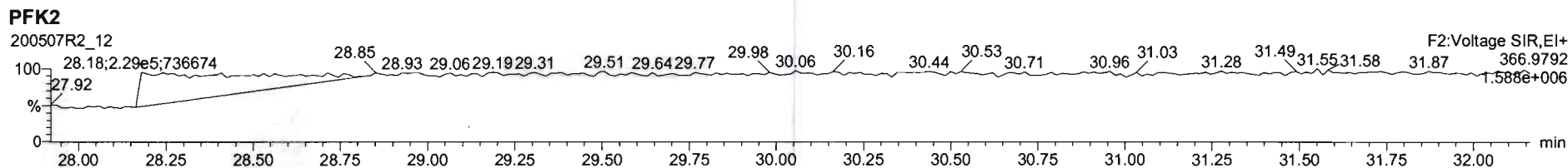
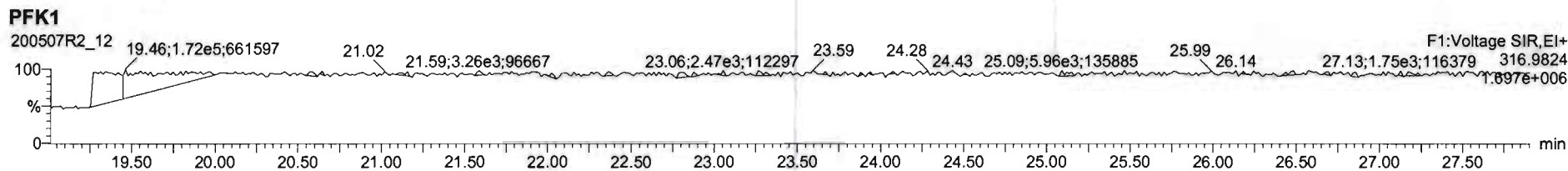
Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423



Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:19:45 AM Pacific Daylight Time
Printed: Friday, May 08, 2020 7:19:50 AM Pacific Daylight Time

Name: 200507R2_12, Date: 07-May-2020, Time: 23:01:21, ID: 2000952-12 PDI-160SC-A-07-08-200423 11.38, Description: PDI-160SC-A-07-08-200423



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200512D1\200512D1_4.qld

Last Altered: Tuesday, May 12, 2020 12:56:55 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 12:57:59 Pacific Daylight Time

DB 5/12/20
C105/14/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200512D1_4, Date: 12-May-2020, Time: 12:27:31, ID: 2000952-05RE1 PDI-160SC-A-00-01-200423 12.66, Description: PDI-160SC-A-00-01-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.63e3	0.82	NO	0.982	10.101	17.677	17.67	1.000	1.001	2.2502		0.338	2.25
2	2 13C-2,3,7,8-TCDF	1.46e5	0.82	NO	1.08	10.101	17.701	17.66	1.133	1.136	162.94	82.3	0.823	
3	3 13C-1,2,3,4-TCDF	1.64e5	0.81	NO	1.00	10.101	15.660	15.54	1.000	1.000	197.99	100	0.891	

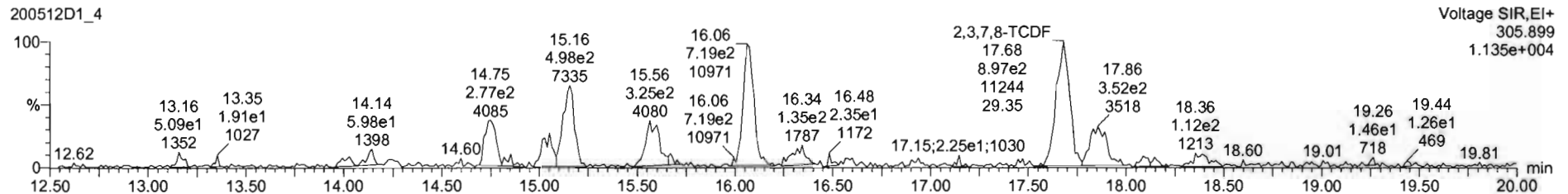
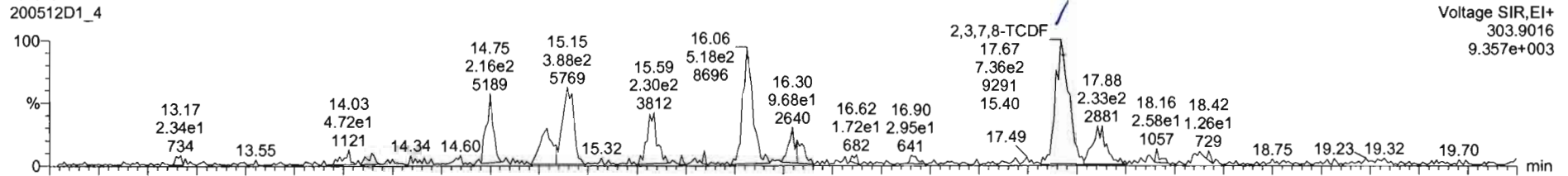
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Last Altered: Tuesday, May 12, 2020 12:56:55 Pacific Daylight Time
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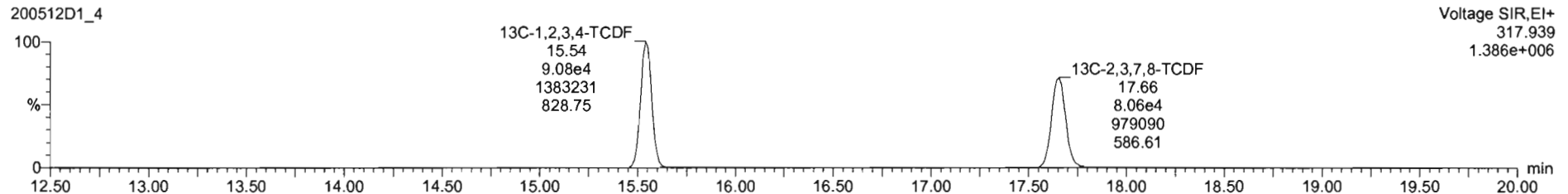
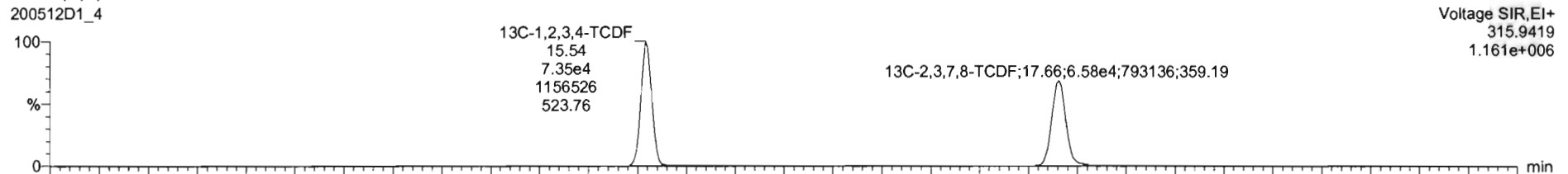
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200512D1_4, Date: 12-May-2020, Time: 12:27:31, ID: 2000952-05RE1 PDI-160SC-A-00-01-200423 12.66, Description: PDI-160SC-A-00-01-200423

2,3,7,8-TCDF



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



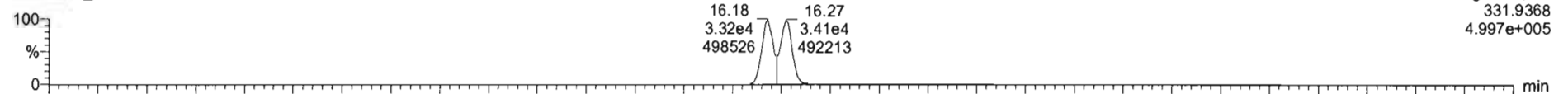
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Printed: Tuesday, May 12, 2020 12:58:18 Pacific Daylight Time

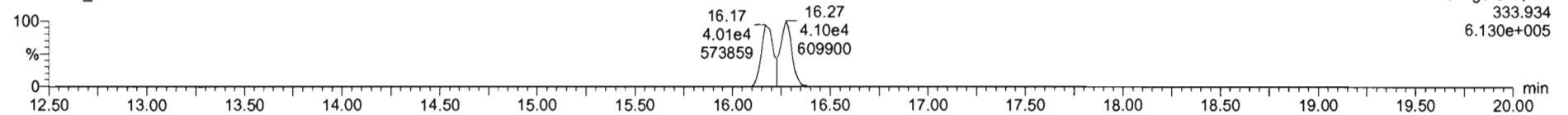
Name: 200512D1_4, Date: 12-May-2020, Time: 12:27:31, ID: 2000952-05RE1 PDI-160SC-A-00-01-200423 12.66, Description: PDI-160SC-A-00-01-200423

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

200512D1_4

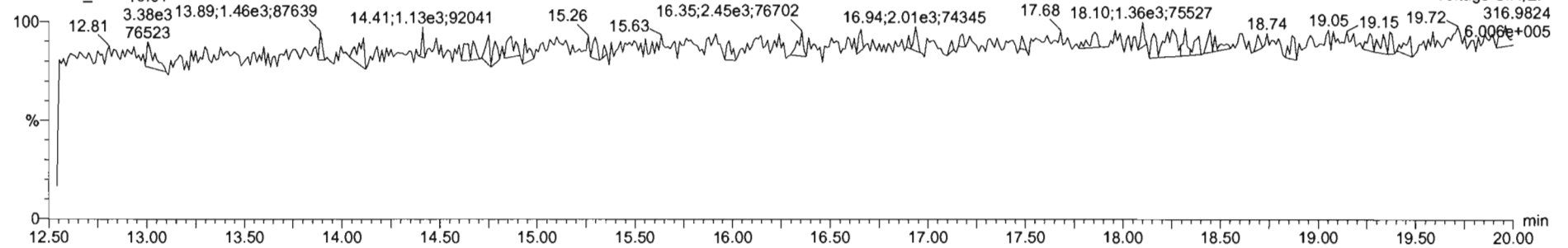


200512D1_4



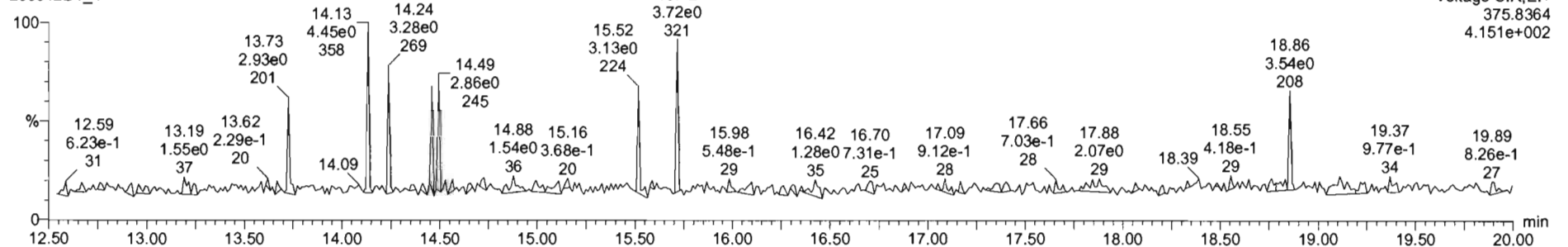
PFK1

200512D1_4



DPE1

200512D1_4



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20056721-1

Reviewed By: CT 05/08/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GPB</u>	<u> </u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	<u>N</u>
- Bottle position verified?	<u>GPB</u>	<u> </u>

Mass resolution ≥

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
<input type="checkbox"/>	<input type="checkbox"/> <u>NA</u>

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-1.qld

Last Altered: Thursday, May 07, 2020 9:00:19 AM Pacific Daylight Time
Printed: Thursday, May 07, 2020 9:00:43 AM Pacific Daylight Time

GRB 05/07/2020

C7 05/08/2020

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

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

Name: 200507R1_1, Date: 07-May-2020, Time: 08:08:16, ID: ST200507R1_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	7.89e4	9.16e5	0.76	NO	0.947	26.01	25.99	NO	1.001	1.001	9.0901	90.9	NO
2	2 1,2,3,7,8-PeCDD	2.88e5	6.65e5	0.60	NO	0.942	31.10	31.09	NO	1.001	1.000	46.041	92.1	NO
3	3 1,2,3,4,7,8-HxCDD	2.30e5	4.55e5	1.23	NO	1.06	34.46	34.46	NO	1.000	1.000	47.501	95.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.72e5	6.06e5	1.24	NO	0.915	34.55	34.56	NO	1.000	1.000	49.041	98.1	NO
5	5 1,2,3,7,8,9-HxCDD	2.39e5	5.49e5	1.22	NO	0.915	34.84	34.84	NO	1.000	1.000	47.605	95.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.86e5	4.16e5	1.03	NO	0.898	38.33	38.34	NO	1.000	1.001	49.790	99.6	NO
7	7 OCDD	3.05e5	6.78e5	0.87	NO	0.933	41.32	41.33	NO	1.000	1.000	96.499	96.5	NO
8	8 2,3,7,8-TCDF	9.38e4	1.24e6	0.73	NO	0.787	25.04	25.05	NO	1.001	1.001	9.6202	96.2	NO
9	9 1,2,3,7,8-PeCDF	4.26e5	9.78e5	1.54	NO	0.910	29.79	29.78	NO	1.001	1.001	47.814	95.6	NO
10	10 2,3,4,7,8-PeCDF	4.28e5	9.48e5	1.56	NO	0.966	30.79	30.77	NO	1.001	1.000	46.778	93.6	NO
11	11 1,2,3,4,7,8-HxCDF	2.99e5	6.43e5	1.20	NO	0.878	33.59	33.60	NO	1.000	1.000	52.932	106	NO
12	12 1,2,3,6,7,8-HxCDF	3.40e5	7.27e5	1.19	NO	0.874	33.72	33.72	NO	1.000	1.000	53.555	107	NO
13	13 2,3,4,6,7,8-HxCDF	3.17e5	6.70e5	1.19	NO	0.922	34.32	34.29	NO	1.001	1.000	51.355	103	NO
14	14 1,2,3,7,8,9-HxCDF	2.28e5	5.00e5	1.19	NO	0.864	35.17	35.18	NO	1.000	1.000	52.677	105	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.32e5	4.95e5	0.97	NO	0.871	36.94	36.92	NO	1.001	1.001	53.771	108	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.56e5	2.86e5	0.99	NO	1.01	38.90	38.93	NO	1.000	1.001	53.807	108	NO
17	17 OCDF	3.00e5	7.28e5	0.86	NO	0.802	41.49	41.51	NO	1.000	1.001	102.83	103	NO
18	18 13C-2,3,7,8-TCDD	9.16e5	7.72e5	0.77	NO	1.16	25.97	25.97	NO	1.026	1.027	102.36	102	NO
19	19 13C-1,2,3,7,8-PeCDD	6.65e5	7.72e5	0.63	NO	0.847	31.05	31.08	NO	1.227	1.228	101.58	102	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.55e5	6.15e5	1.29	NO	0.750	34.45	34.45	NO	1.014	1.014	98.674	98.7	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.06e5	6.15e5	1.25	NO	0.963	34.56	34.55	NO	1.017	1.017	102.32	102	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.49e5	6.15e5	1.25	NO	0.838	34.83	34.82	NO	1.025	1.025	106.54	107	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.16e5	6.15e5	1.07	NO	0.641	38.32	38.32	NO	1.128	1.128	105.47	105	NO
24	24 13C-OCDD	6.78e5	6.15e5	0.88	NO	0.586	41.31	41.32	NO	1.216	1.216	188.11	94.1	NO
25	25 13C-2,3,7,8-TCDF	1.24e6	1.19e6	0.76	NO	1.03	25.03	25.02	NO	0.989	0.989	100.43	100	NO
26	26 13C-1,2,3,7,8-PeCDF	9.78e5	1.19e6	1.59	NO	0.845	29.74	29.77	NO	1.176	1.177	97.027	97.0	NO
27	27 13C-2,3,4,7,8-PeCDF	9.48e5	1.19e6	1.58	NO	0.814	30.73	30.76	NO	1.215	1.216	97.598	97.6	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.43e5	6.15e5	0.51	NO	1.00	33.59	33.59	NO	0.989	0.989	104.04	104	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.27e5	6.15e5	0.51	NO	1.14	33.71	33.71	NO	0.992	0.992	104.03	104	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.70e5	6.15e5	0.49	NO	1.02	34.28	34.28	NO	1.009	1.009	106.57	107	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.00e5	6.15e5	0.50	NO	0.845	35.17	35.17	NO	1.035	1.035	96.314	96.3	NO

Dataset: U:\VG12.PRO\Results\200507R1\200507R1-1.qld

Last Altered: Thursday, May 07, 2020 9:00:19 AM Pacific Daylight Time
Printed: Thursday, May 07, 2020 9:00:43 AM Pacific Daylight Time

Name: 200507R1_1, Date: 07-May-2020, Time: 08:08:16, ID: ST200507R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.95e5	6.15e5	0.43	NO	0.771	36.90	36.90	NO	1.086	1.086	104.42	104	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.86e5	6.15e5	0.41	NO	0.482	38.91	38.90	NO	1.145	1.145	96.483	96.5	NO
34	34 13C-OCDF	7.28e5	6.15e5	0.87	NO	0.669	41.48	41.49	NO	1.221	1.221	177.20	88.6	NO
35	35 37Cl-2,3,7,8-TCDD	8.37e4	7.72e5			1.10	26.00	25.99	NO	1.028	1.027	9.8718	98.7	NO
36	36 13C-1,2,3,4-TCDD	7.72e5	7.72e5	0.80	NO	1.00	25.35	25.30	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.19e6	1.19e6	0.78	NO	1.00	23.56	23.50	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	6.15e5	6.15e5	0.51	NO	1.00	34.00	33.97	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Thursday, May 07, 2020 1:39:02 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 1:39:13 PM Pacific Daylight Time

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

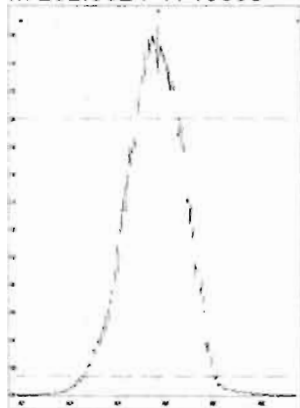
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200507R1_1	ST200507R1_1 1613 CS3 19L2305	07-May-20	08:08:16
2	200507R1_2	B0D0331-BS1 OPR 10	07-May-20	08:55:44
3	200507R1_3	SOLVENT BLANK	07-May-20	09:43:20
4	200507R1_4	B0D0331-BLK1 Method Blank 10	07-May-20	10:29:32
5	200507R1_5	B0D0331-DUP1 Duplicate 11.02	07-May-20	11:16:28
6	200507R1_6	2000952-01 PDI-158SC-A-04-05-200423 11	07-May-20	12:02:57
7	200507R1_7	2000952-02 PDI-158SC-A-05-06-200423 11.13	07-May-20	12:49:11

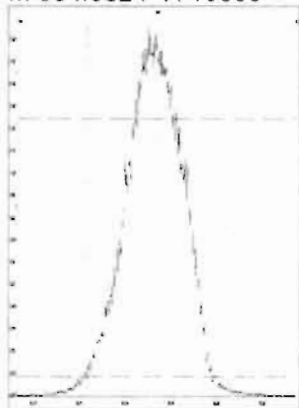
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 07, 2020 08:03:31 Pacific Daylight Time

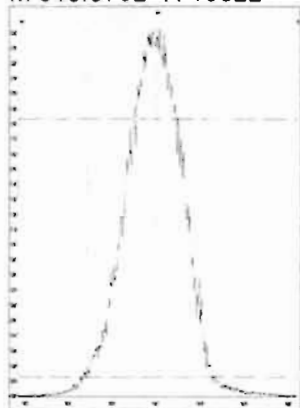
M 292.9824 R 10503



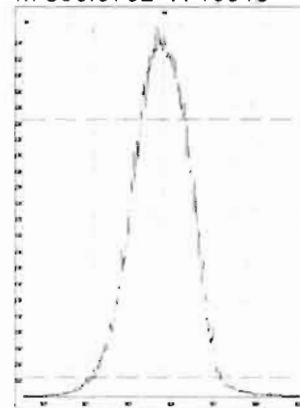
M 304.9824 R 10866



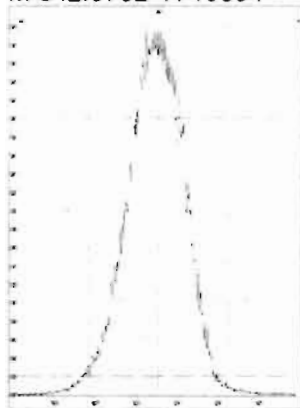
M 318.9792 R 10822



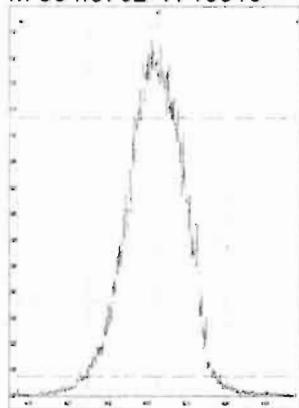
M 330.9792 R 10915



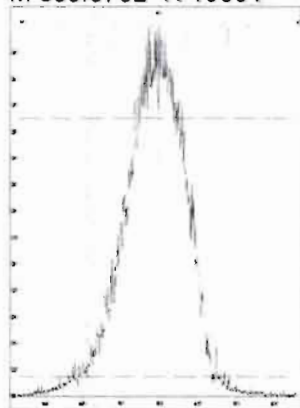
M 342.9792 R 10594



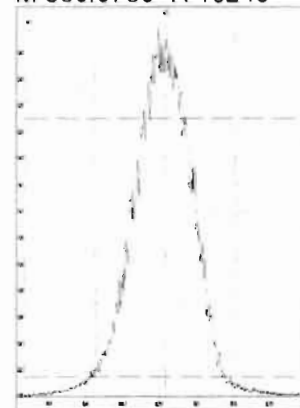
M 354.9792 R 10915



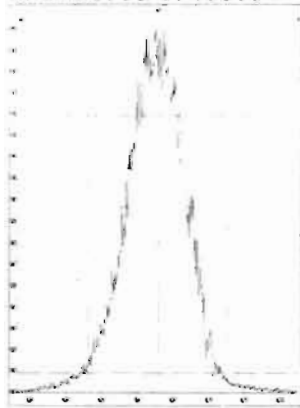
M 366.9792 R 10501



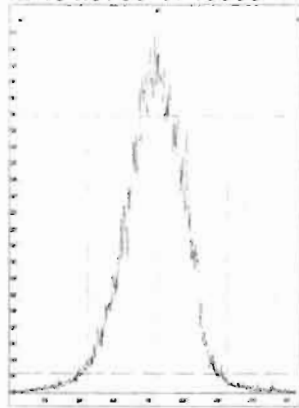
M 380.9760 R 10245



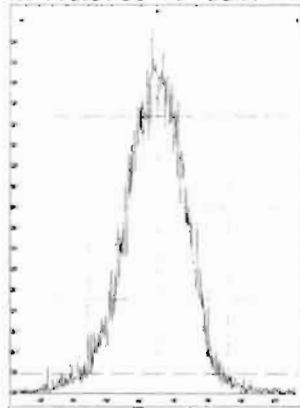
M 392.9760 R 10506



M 404.9760 R 10000



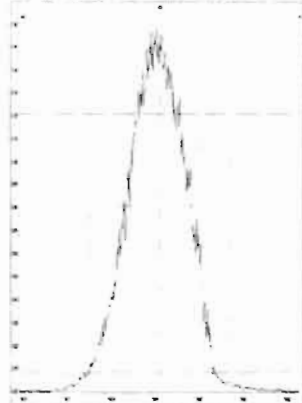
M 416.9760 R 10547



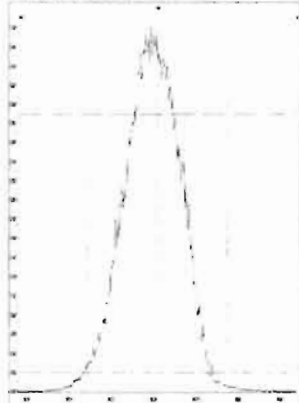
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 07, 2020 08:04:21 Pacific Daylight Time

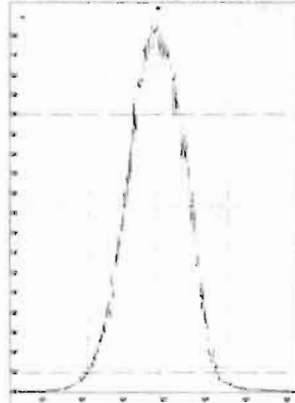
M 318.9792 R 11211



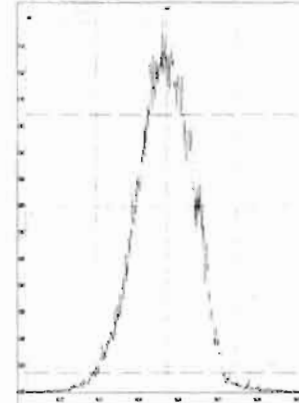
M 330.9792 R 10915



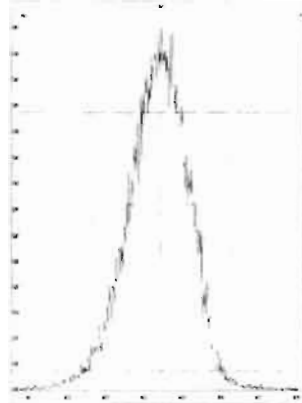
M 342.9792 R 10824



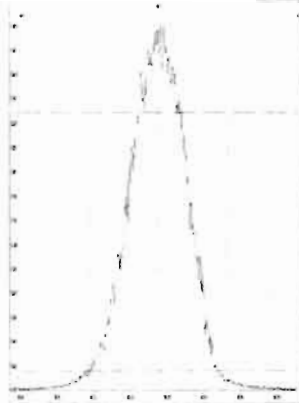
M 354.9792 R 11012



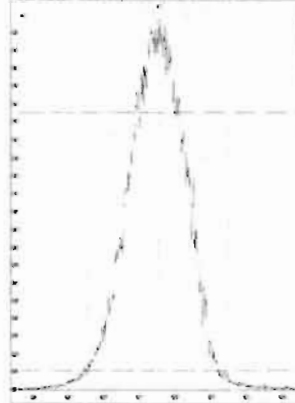
M 366.9792 R 10501



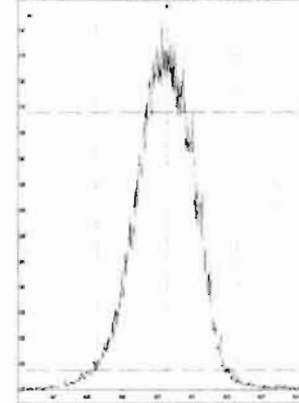
M 380.9760 R 10917



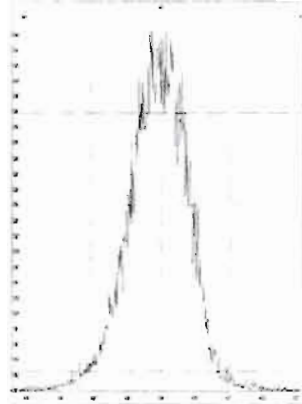
M 392.9760 R 10728



M 404.9760 R 10726



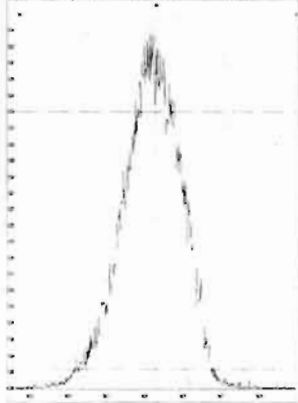
M 416.9760 R 10964



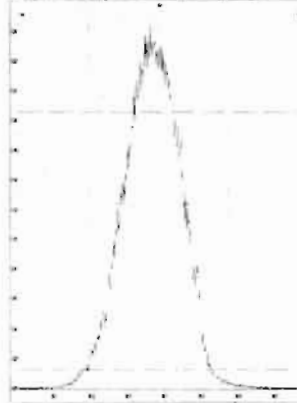
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, May 07, 2020 08:05:08 Pacific Daylight Time

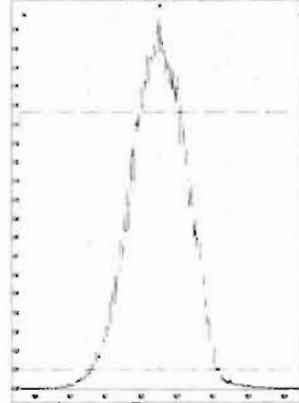
M 366.9792 R 10681



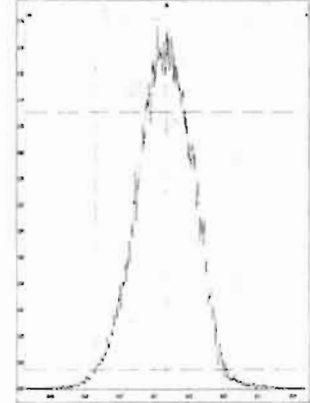
M 380.9760 R 11262



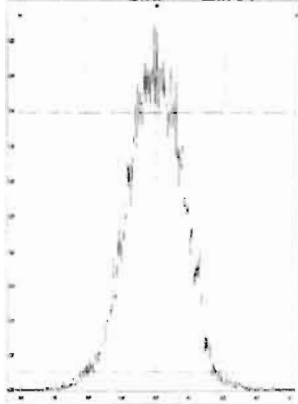
M 392.9760 R 11209



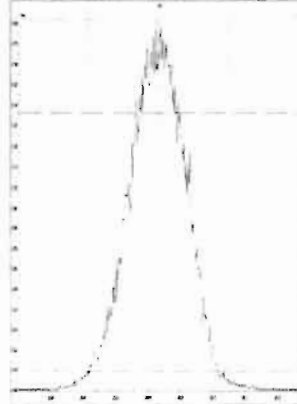
M 404.9760 R 10918



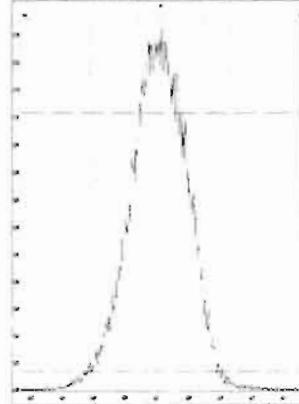
M 416.9760 R 11419



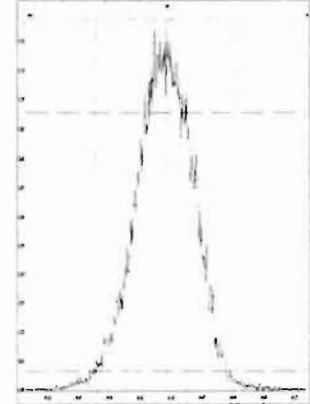
M 430.9728 R 10820



M 442.9728 R 10917



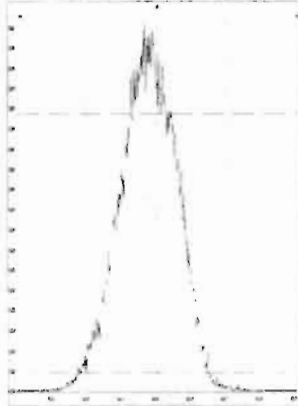
M 454.9728 R 10415



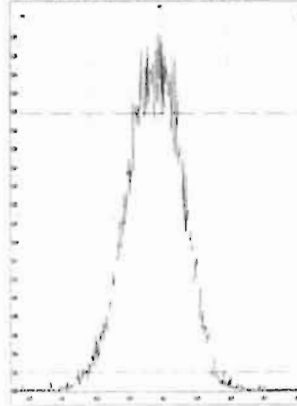
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, May 07, 2020 08:05:38 Pacific Daylight Time

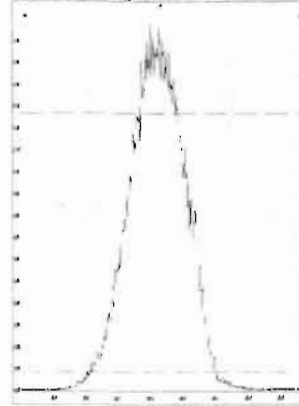
M 404.9760 R 10915



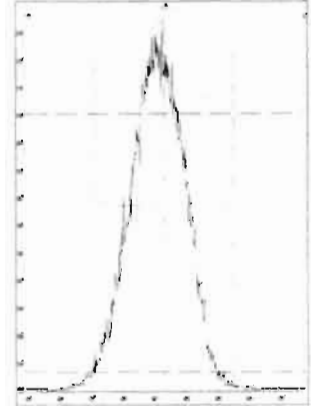
M 416.9760 R 11261



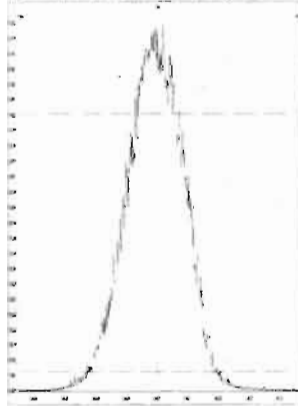
M 430.9728 R 10967



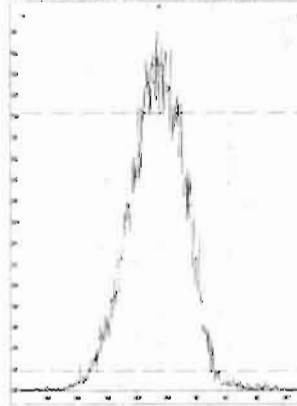
M 442.9728 R 11412



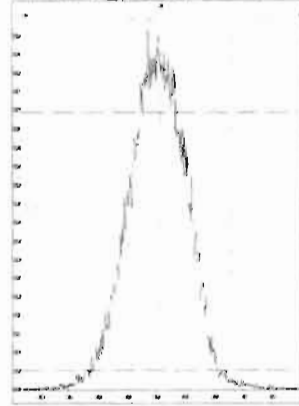
M 454.9728 R 10916



M 466.9728 R 11417



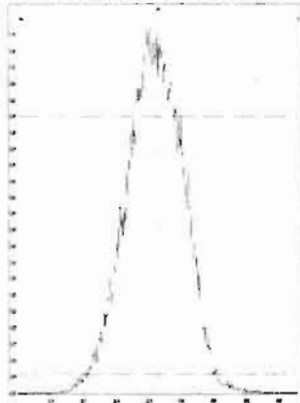
M 480.9696 R 11211



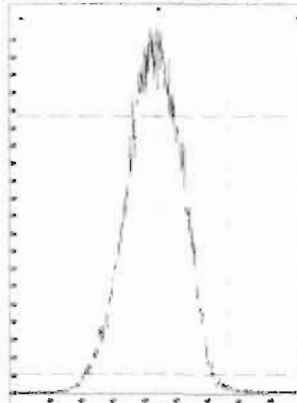
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, May 07, 2020 08:06:19 Pacific Daylight Time

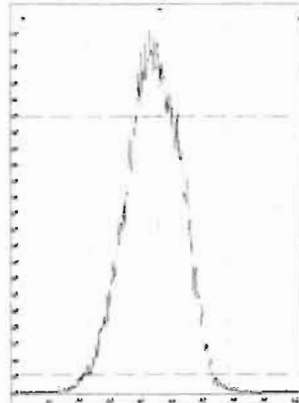
M 430.9728 R 10730



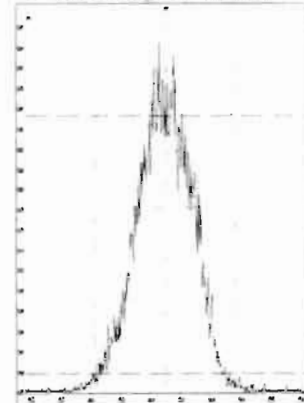
M 442.9728 R 10916



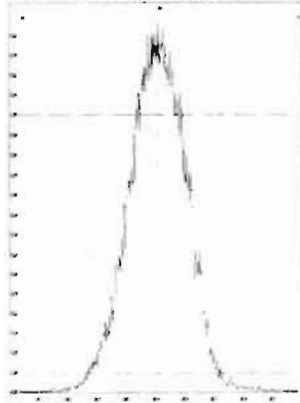
M 454.9728 R 11112



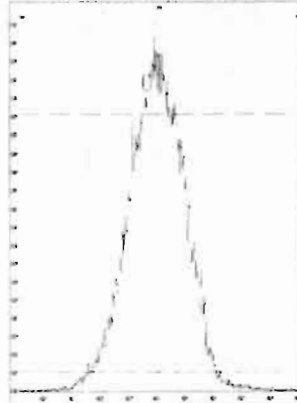
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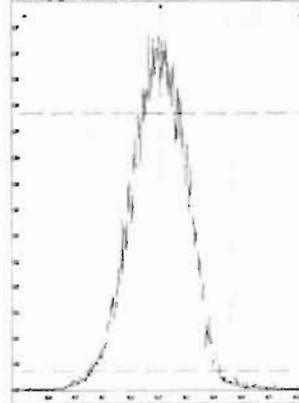
M 480.9696 R 10774



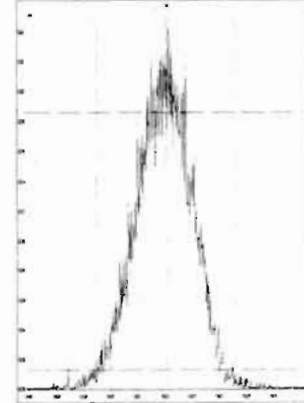
M 492.9696 R 11013



M 504.9696 R 11110



M 516.9697 R 11416



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 9:01:54 AM Pacific Daylight Time

Printed: Thursday, May 07, 2020 9:02:12 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

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

Name: 200507R1_1, Date: 07-May-2020, Time: 08:08:16, ID: ST200507R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.81
2	1,2,8,9-TCDD (Last)	26.99
3	1,2,4,7,9-PeCDD (First)	28.84
4	1,2,3,8,9-PeCDD (Last)	31.48
5	1,2,4,6,7,9-HxCDD (First)	32.99
6	1,2,3,7,8,9-HxCDD (Last)	34.84
7	1,2,3,4,6,7,9-HpCDD (First)	37.31
8	1,2,3,4,6,7,8-HpCDD (Last)	38.34
9	1,3,6,8-TCDF (First)	19.76
10	1,2,8,9-TCDF (Last)	27.14
11	1,3,4,6,8-PeCDF (First)	27.11
12	1,2,3,8,9-PeCDF (Last)	31.72
13	1,2,3,4,6,8-HxCDF (First)	32.43
14	1,2,3,7,8,9-HxCDF (Last)	35.18
15	1,2,3,4,6,7,8-HpCDF (First)	36.92
16	1,2,3,4,7,8,9-HpCDF (Last)	38.93

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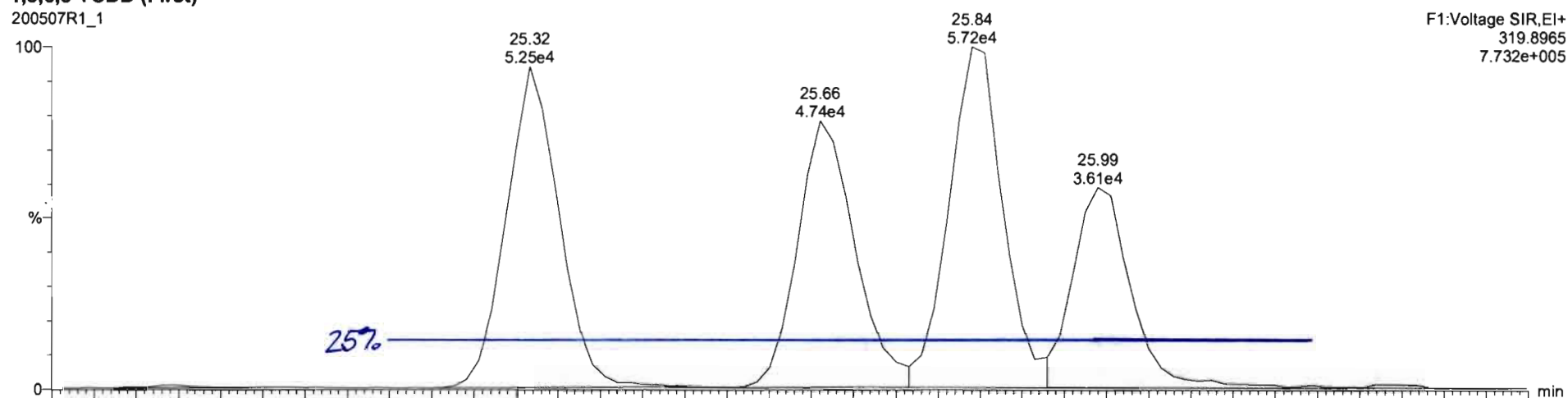
GRB 05/07/2020

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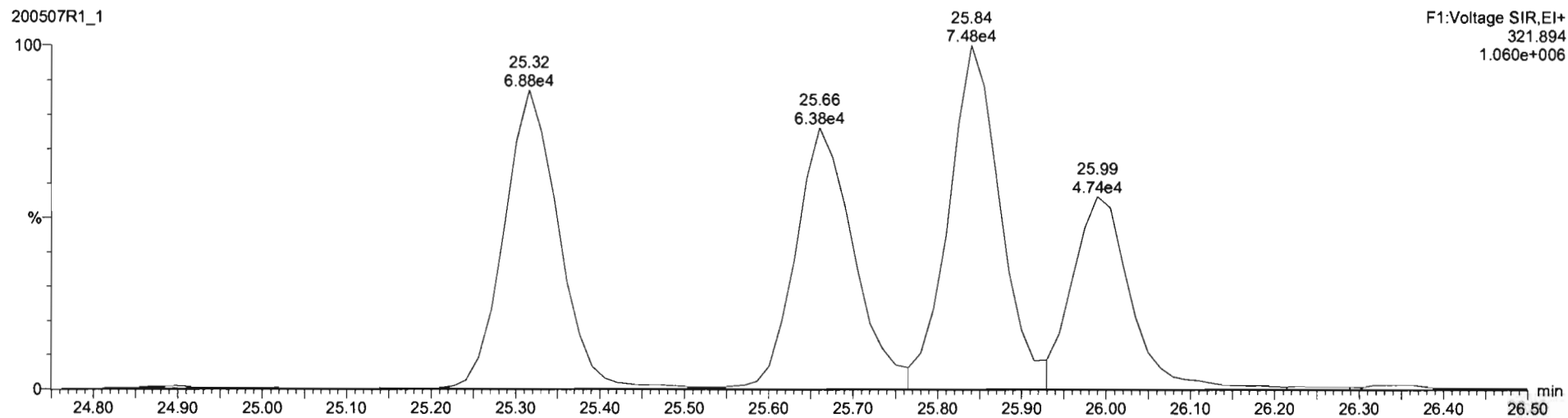
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1,3,6,8-TCDD (First)

200507R1_1



200507R1_1



Dataset: Untitled

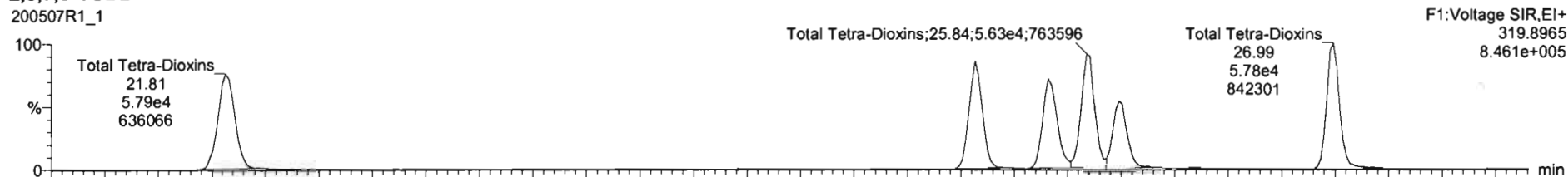
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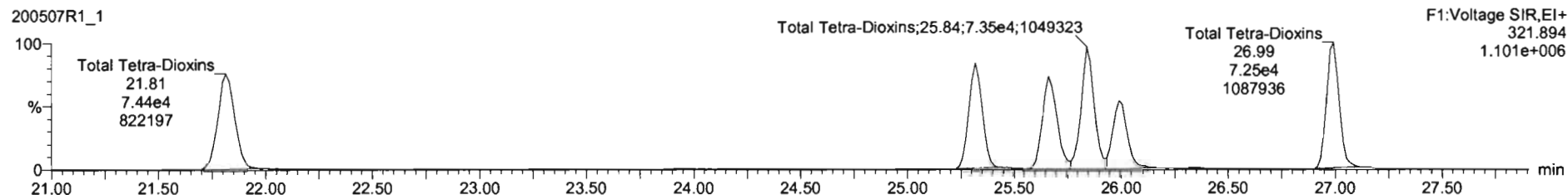
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2,3,7,8-TCDD

200507R1_1

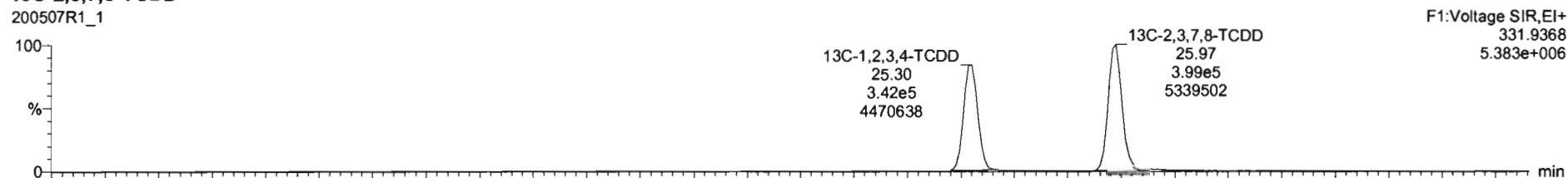


200507R1_1

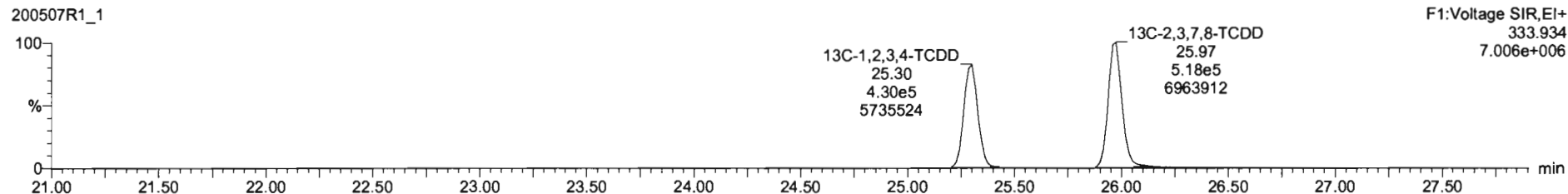


13C-2,3,7,8-TCDD

200507R1_1



200507R1_1



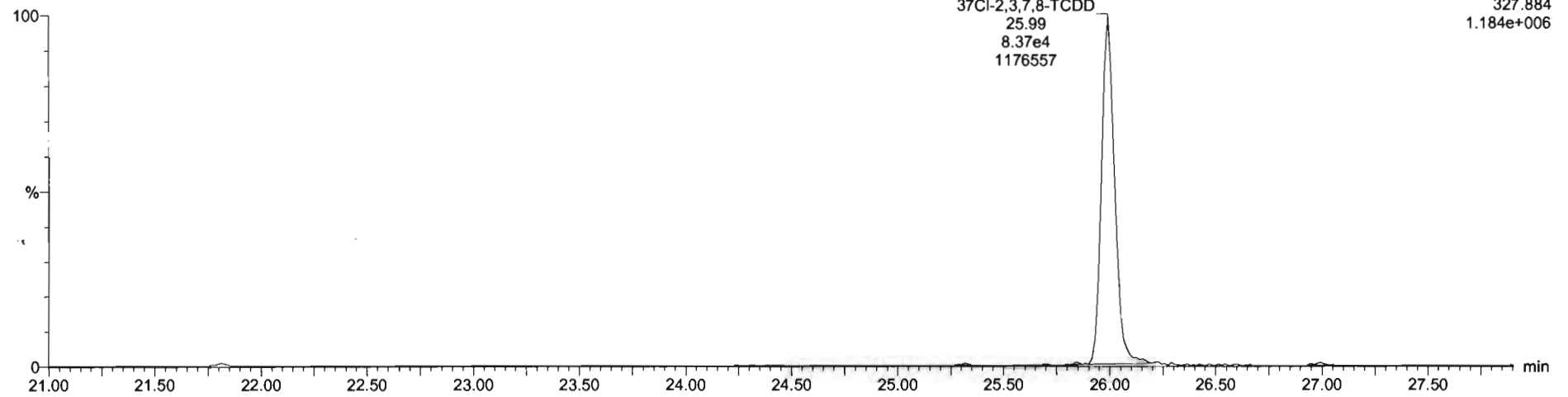
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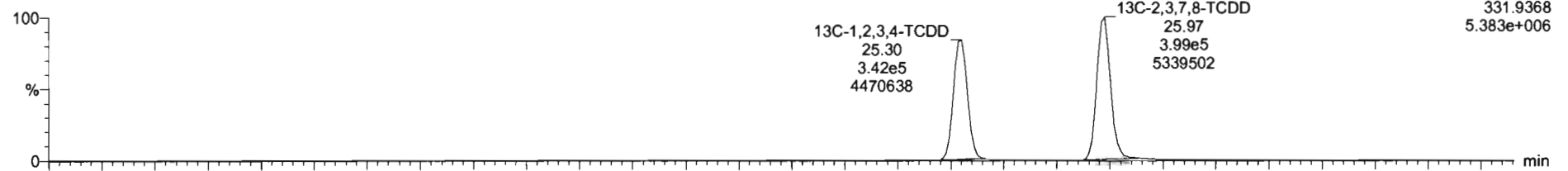
37Cl-2,3,7,8-TCDD

200507R1_1

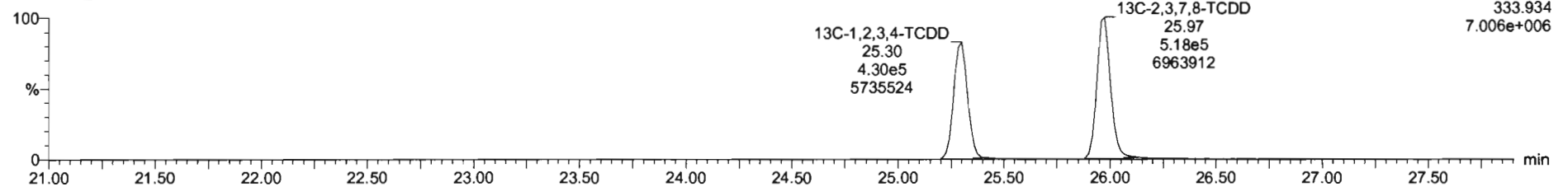


13C-1,2,3,4-TCDD

200507R1_1



200507R1_1



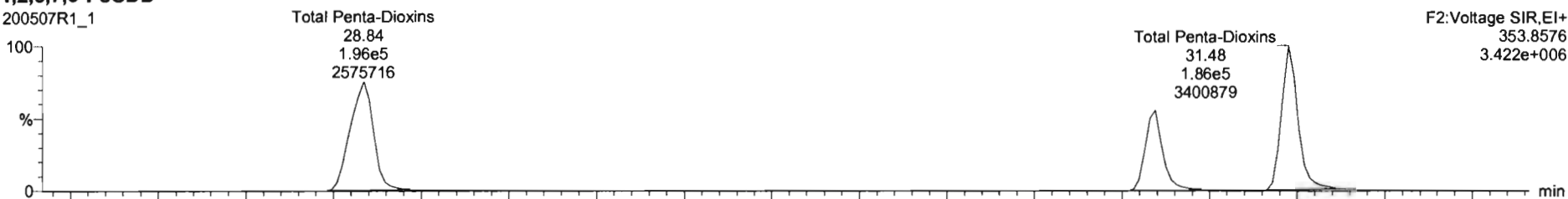
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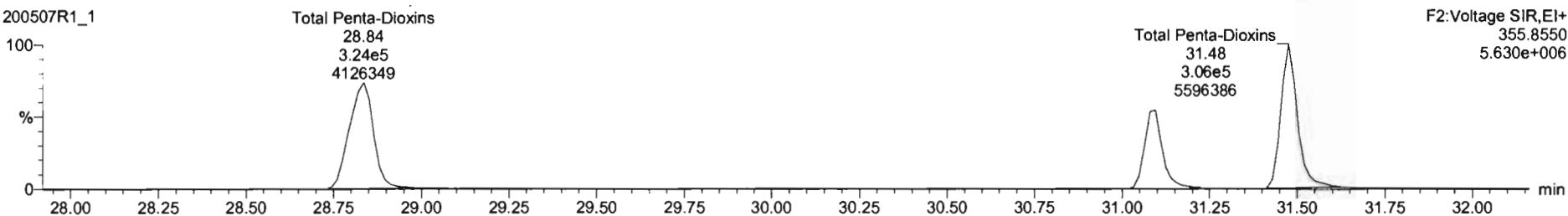
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1,2,3,7,8-PeCDD

200507R1_1

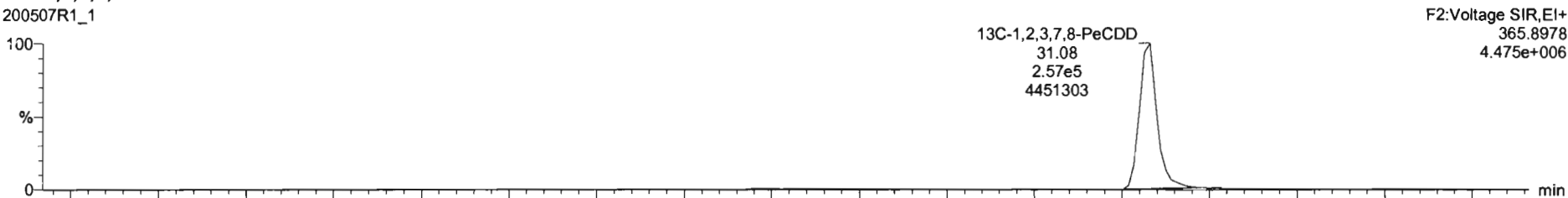


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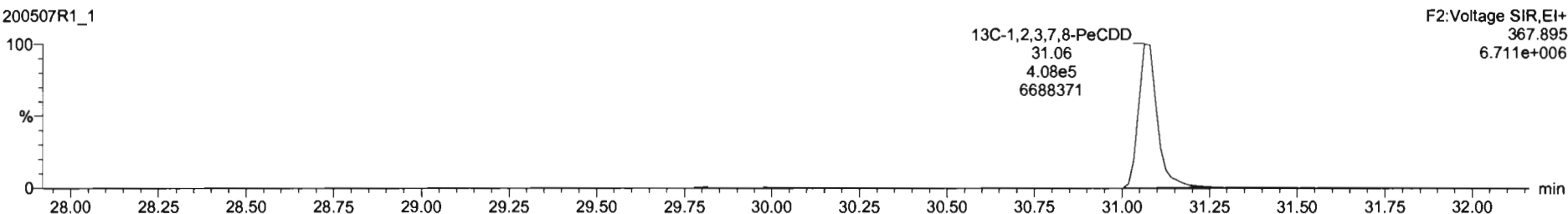


13C-1,2,3,7,8-PeCDD

200507R1_1



200507R1_1



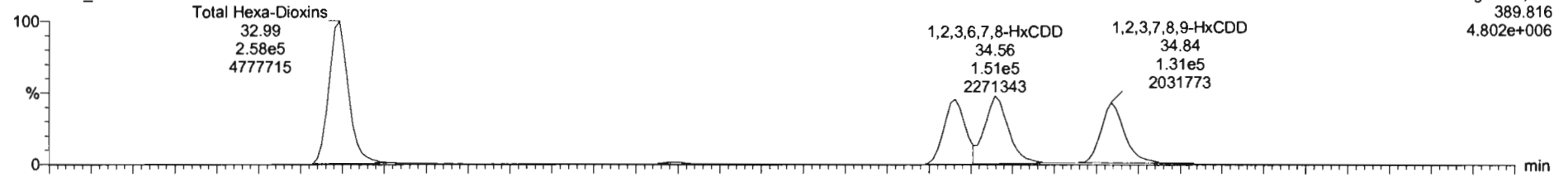
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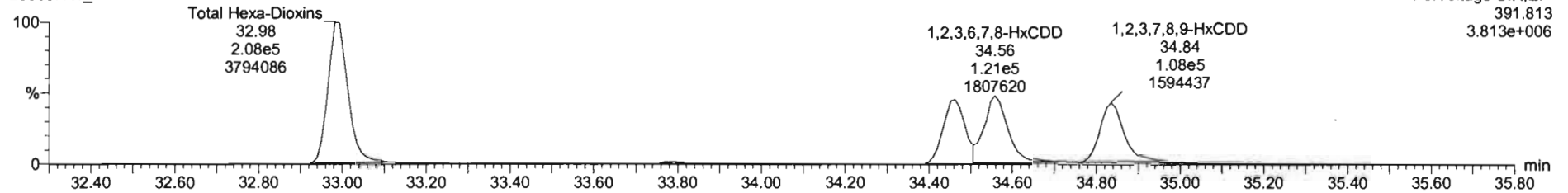
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1,2,3,4,7,8-HxCDD

200507R1_1

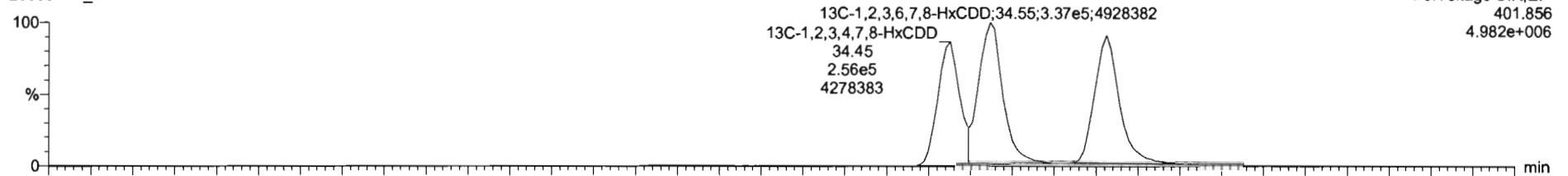


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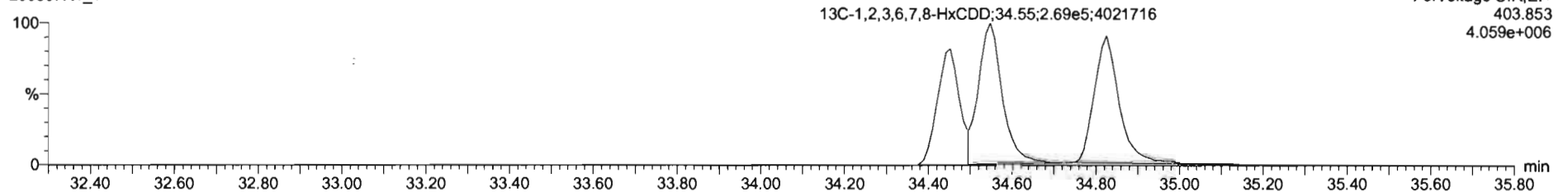


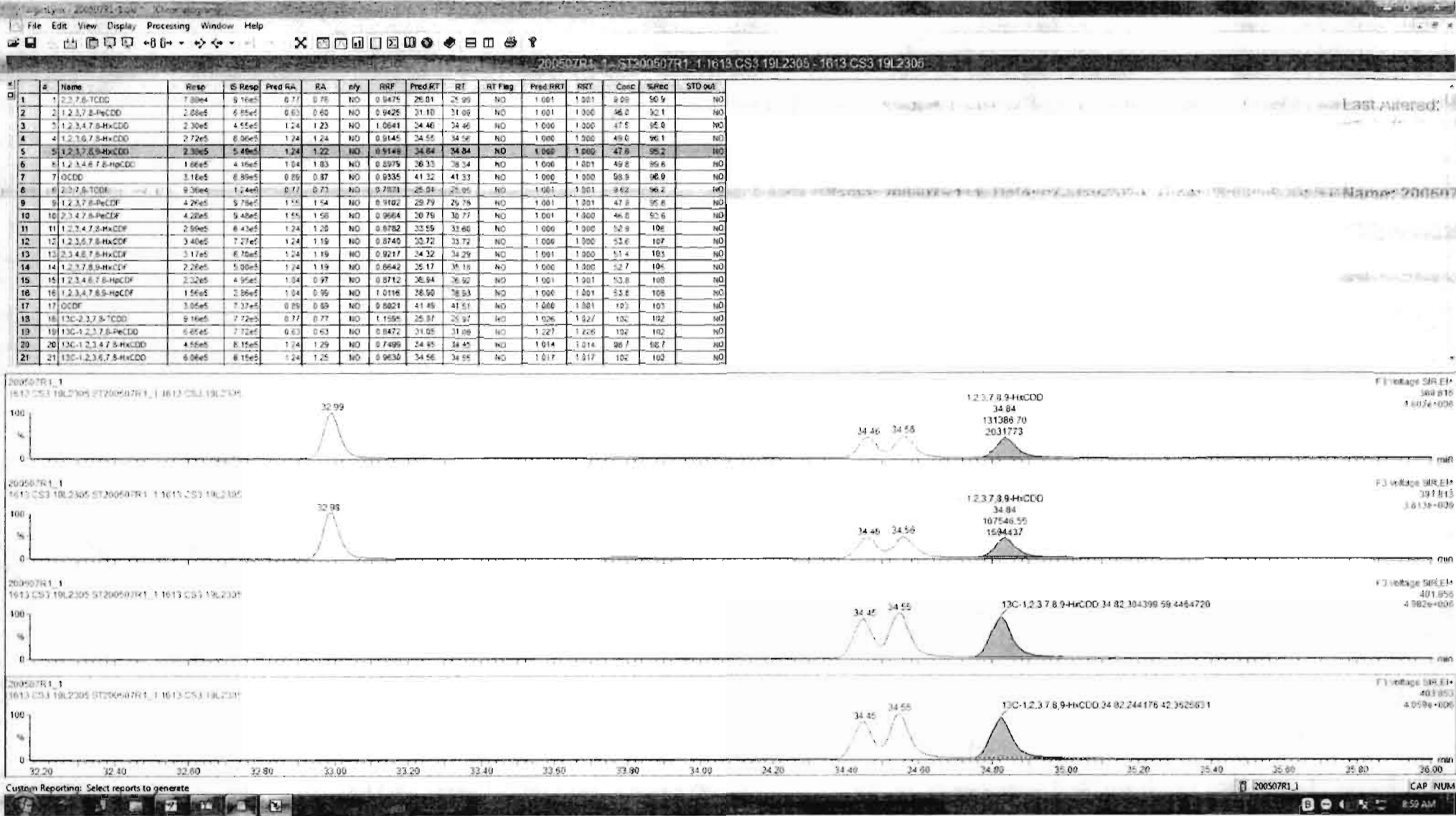
13C-1,2,3,4,7,8-HxCDD

200507R1_1



200507R1_1





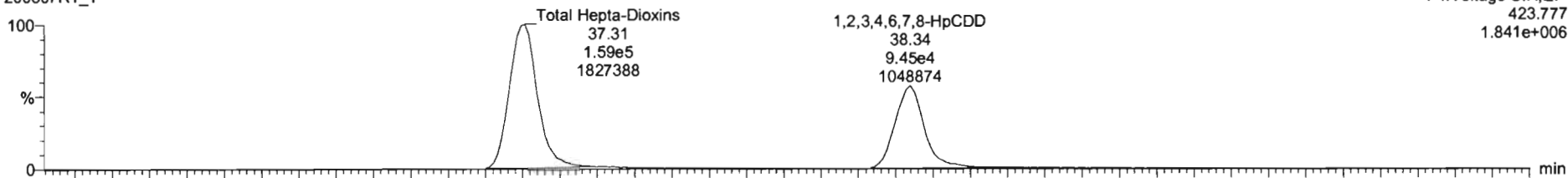
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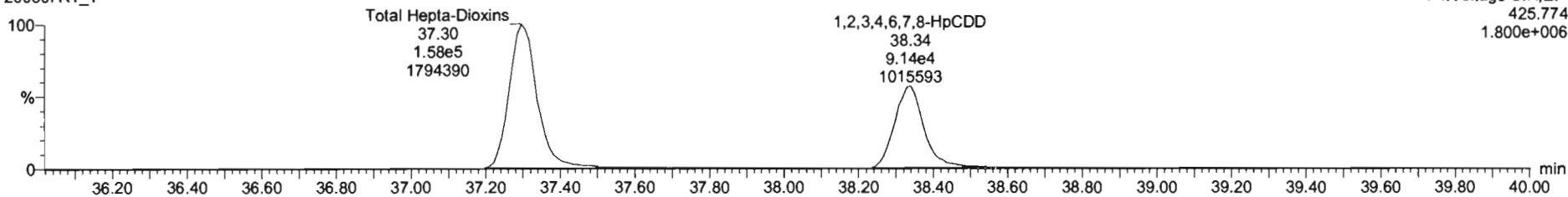
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1,2,3,4,6,7,8-HpCDD

200507R1_1

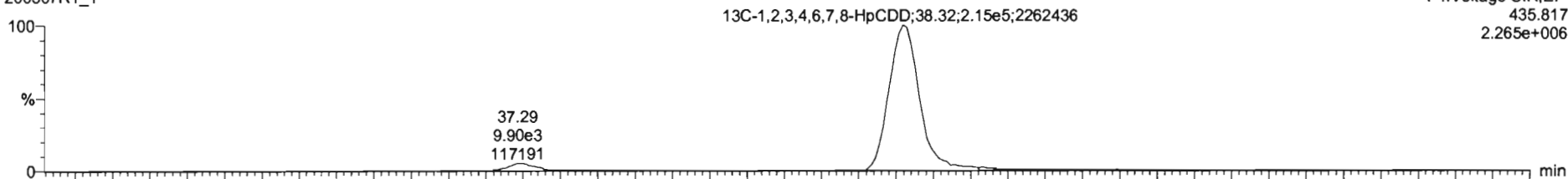


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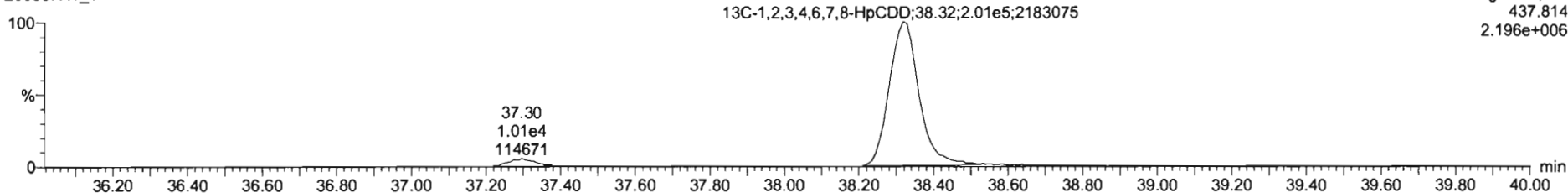


13C-1,2,3,4,6,7,8-HpCDD

200507R1_1



200507R1_1



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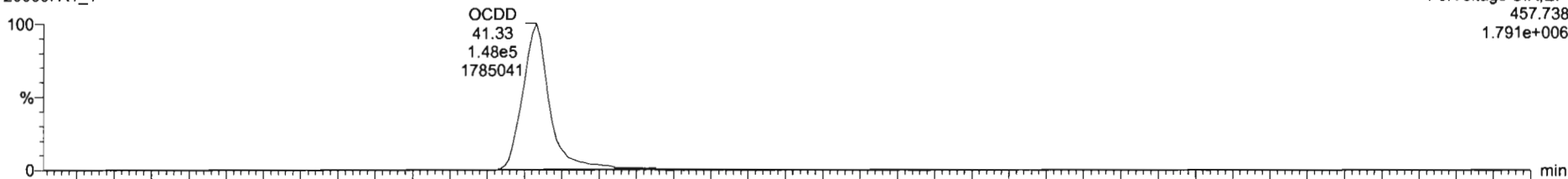
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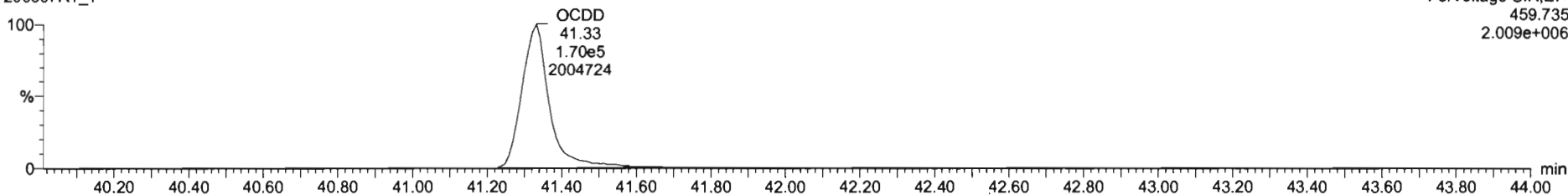
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OCDD

200507R1_1

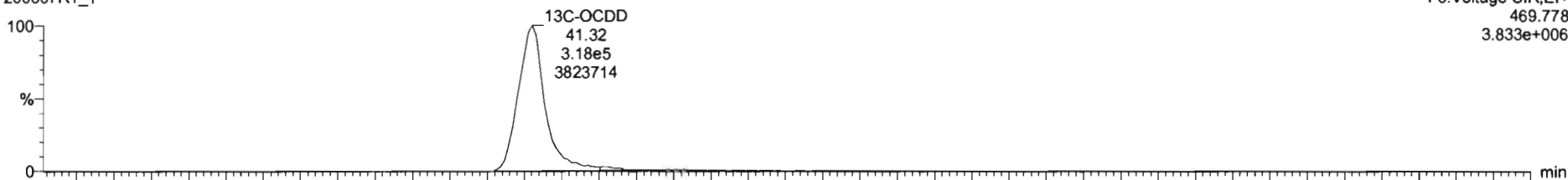


200507R1_1

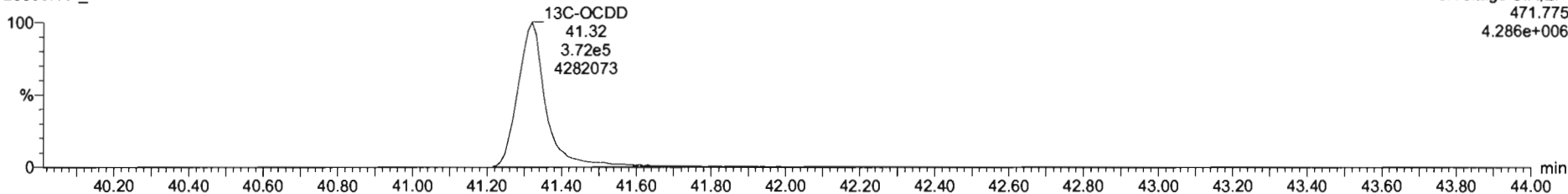


¹³C-OCDD

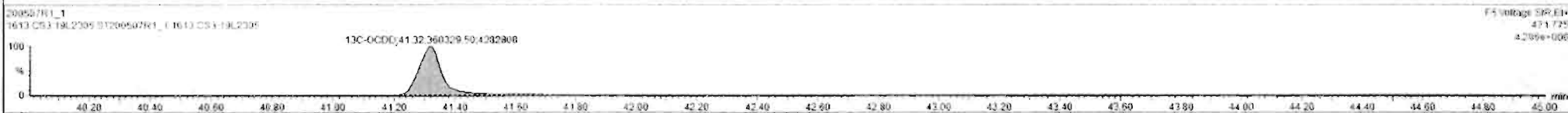
200507R1_1



200507R1_1



#	Name	Resp	IS Resp	Pred RA	RA	py	RRF	Pred RT	RT	RT Flag	Pred SRT	SRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	7.80e4	9.16e1	0.77	0.76	NO	0.9475	26.01	25.99	NO	1.001	1.001	9.69	96.9	NO
2	1,2,3,7,8-PeCDD	2.88e5	8.85e2	0.63	0.60	NO	0.9425	31.10	31.09	NO	1.001	1.000	16.0	92.1	NO
3	1,2,3,4,7,8-HxCDD	2.30e5	4.55e2	1.24	1.23	NO	1.0641	34.46	34.46	NO	1.006	1.000	17.5	95.0	NO
4	1,2,3,6,7,8-HxCDD	2.72e5	8.96e2	1.24	1.24	NO	0.9145	34.55	34.56	NO	1.000	1.000	49.0	98.1	NO
5	1,2,3,7,8,9-HxCDD	2.35e5	5.49e2	1.24	1.22	NO	0.9149	34.84	34.84	NO	1.006	1.000	47.6	95.2	NO
6	1,2,3,4,6,7,8-HpCDD	1.06e5	4.18e2	1.04	1.03	NO	0.8979	36.33	36.34	NO	1.006	1.001	49.8	99.8	NO
7	OCDD	3.05e5	8.72e2	0.88	0.87	NO	0.9335	41.32	41.32	NO	1.000	1.000	95.5	95.5	NO
8	2,3,7,8-TCDF	9.30e4	1.14e2	0.77	0.73	NO	0.7871	25.04	25.05	NO	1.001	1.001	9.82	96.7	NO
9	1,2,3,7,8-PeCDF	4.29e5	9.79e2	1.55	1.54	NO	0.9102	29.79	29.78	NO	1.001	1.001	47.8	95.8	NO
10	2,3,4,7,8-PeCDF	4.28e5	9.48e2	1.55	1.56	NO	0.9664	30.76	30.77	NO	1.001	1.000	46.0	95.6	NO
11	1,2,3,4,7,8-HxCDF	2.90e5	6.43e2	1.24	1.20	NO	0.8782	32.59	33.60	NO	1.006	1.000	52.9	106	NO
12	1,2,3,6,7,8-HxCDF	3.40e5	7.77e2	1.24	1.19	NO	0.8740	33.72	33.72	NO	1.006	1.000	53.6	107	NO
13	2,3,4,6,7,8-HxCDF	3.17e5	8.79e2	1.24	1.19	NO	0.9217	34.32	34.29	NO	1.001	1.000	51.4	103	NO
14	1,2,3,7,8,9-HxCDF	2.28e5	5.30e2	1.24	1.19	NO	0.8642	35.17	35.18	NO	1.000	1.000	52.7	105	NO
15	1,2,3,4,6,7,8-HpCDF	2.32e5	4.95e2	1.04	0.97	NO	0.8712	36.94	36.92	NO	1.001	1.001	53.8	108	NO
16	1,2,3,4,7,8,9-HpCDF	1.56e5	2.86e2	1.04	0.96	NO	1.0116	38.90	38.93	NO	1.006	1.001	53.8	108	NO
17	OCDF	3.05e5	7.37e2	0.88	0.89	NO	0.8821	41.49	41.51	NO	1.000	1.001	103	103	NO
18	13C-2,3,7,8-TCDD	9.16e5	7.72e2	0.77	0.77	NO	1.1595	25.97	25.97	NO	1.026	1.027	102	102	NO
19	13C-1,2,3,7,8-PeCDD	6.65e5	7.72e2	0.63	0.63	NO	0.8472	31.05	31.06	NO	1.227	1.226	102	102	NO
20	13C-1,2,3,4,7,8-HxCDD	4.55e5	6.15e2	1.24	1.29	NO	0.7499	34.45	34.45	NO	1.014	1.014	98.7	98.7	NO
21	13C-1,2,3,6,7,8-HxCDD	6.06e5	6.15e2	1.24	1.25	NO	0.9630	34.56	34.56	NO	1.017	1.017	102	102	NO

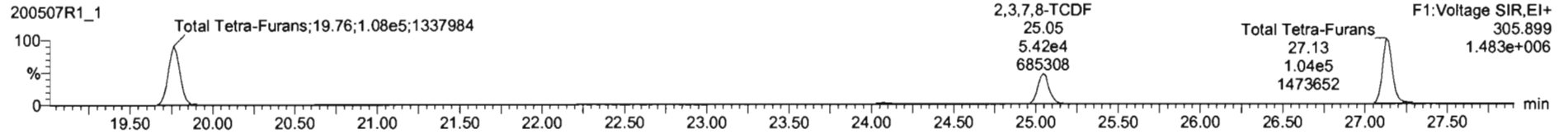
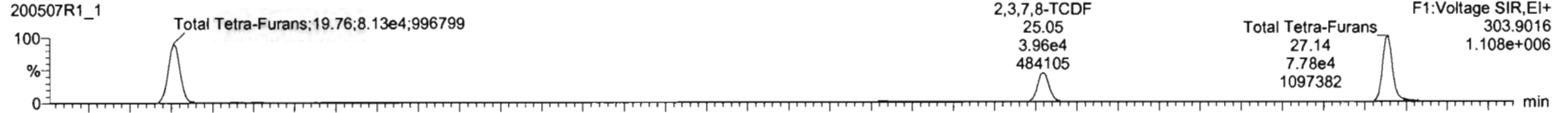


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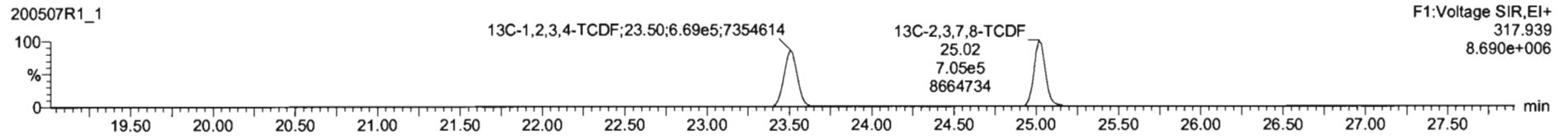
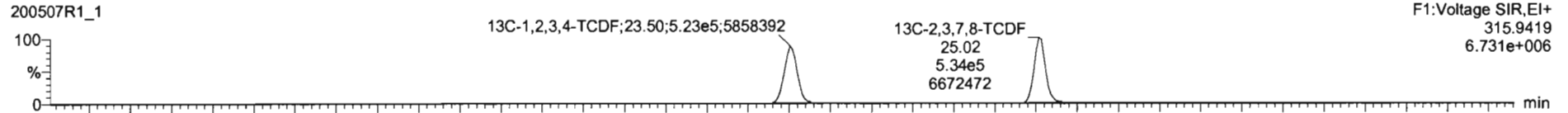
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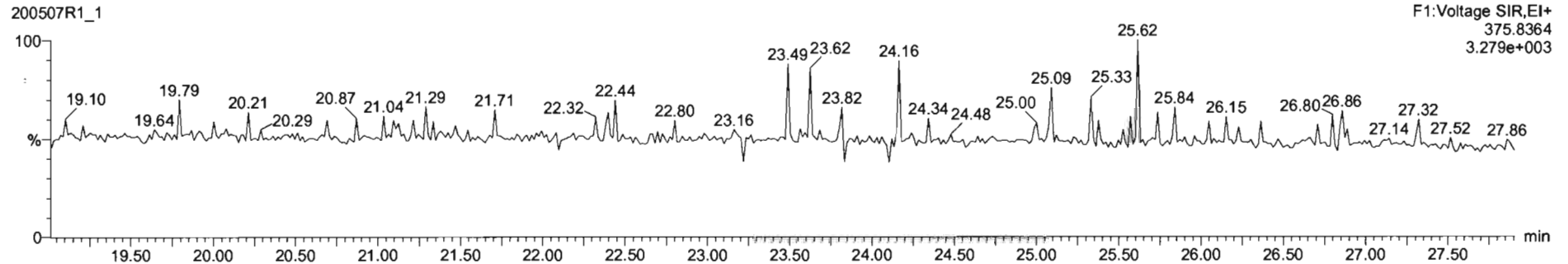
2,3,7,8-TCDF



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



DPE1



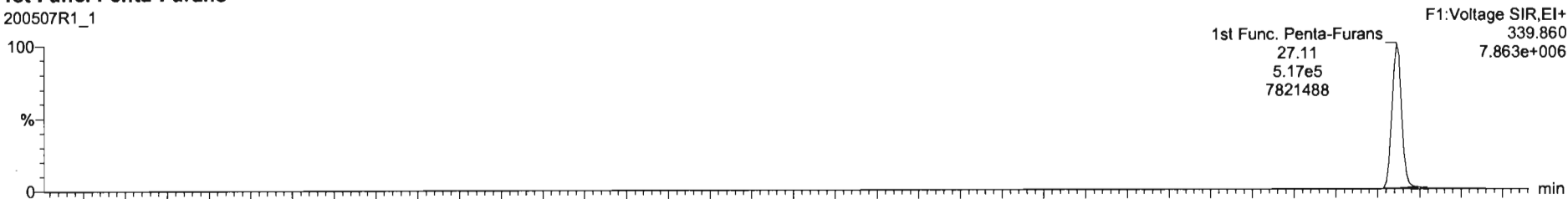
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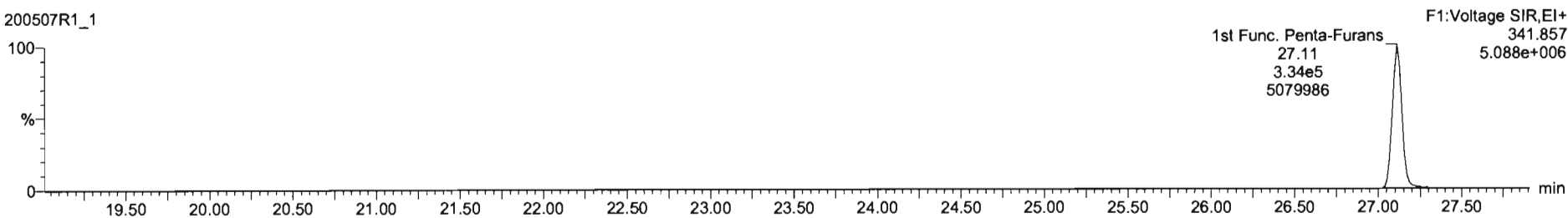
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1st Func. Penta-Furans

200507R1_1

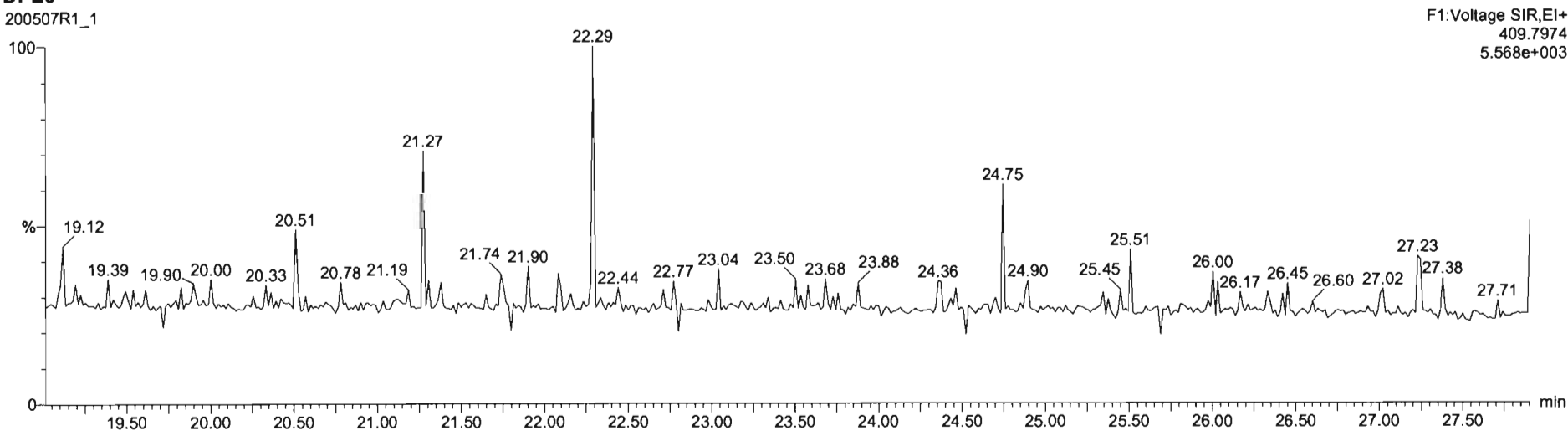


200507R1_1



DPE6

200507R1_1



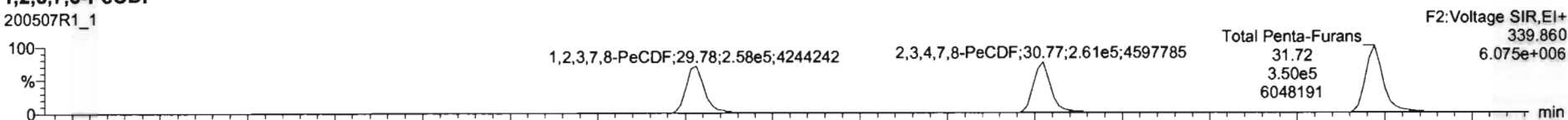
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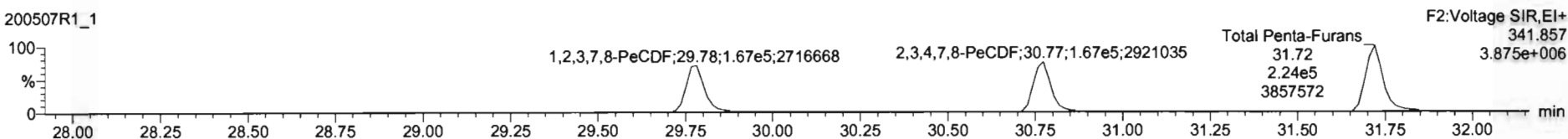
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1,2,3,7,8-PeCDF

200507R1_1

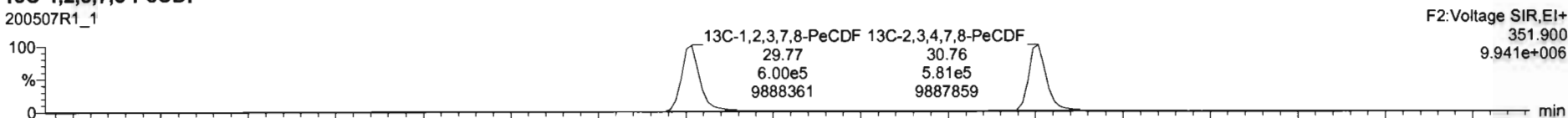


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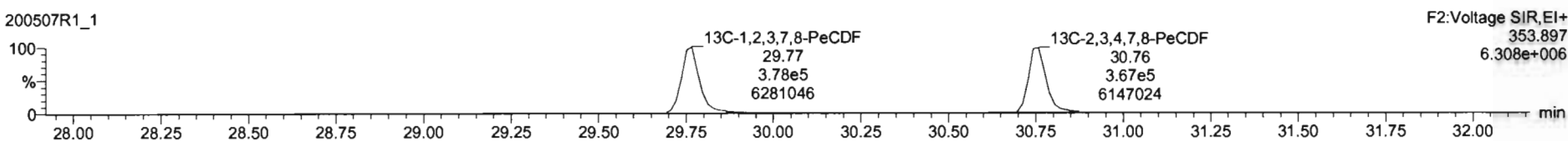


13C-1,2,3,7,8-PeCDF

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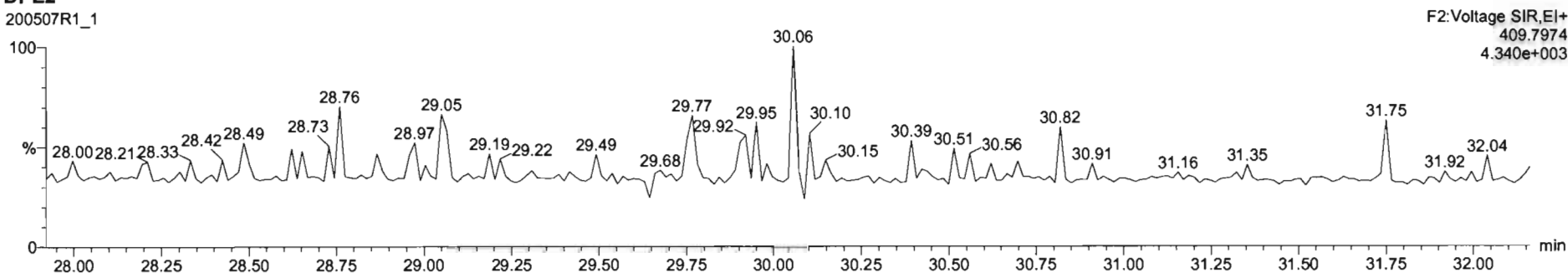


200507R1_1



DPE2

200507R1_1

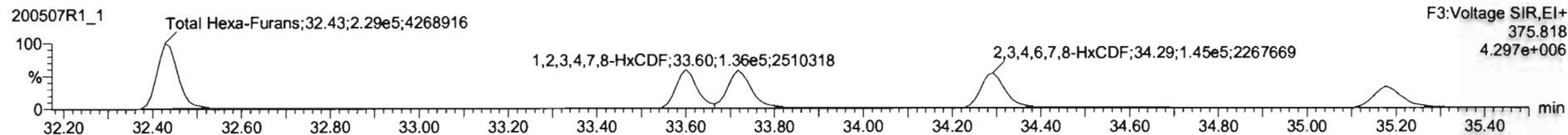
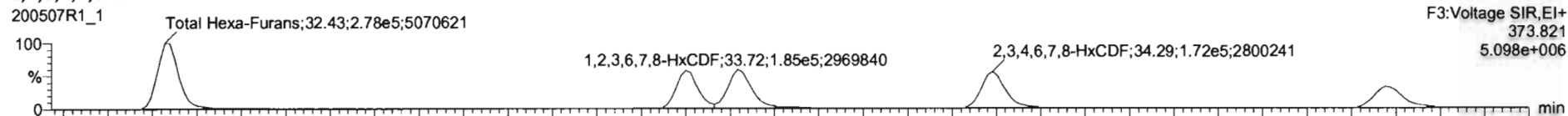


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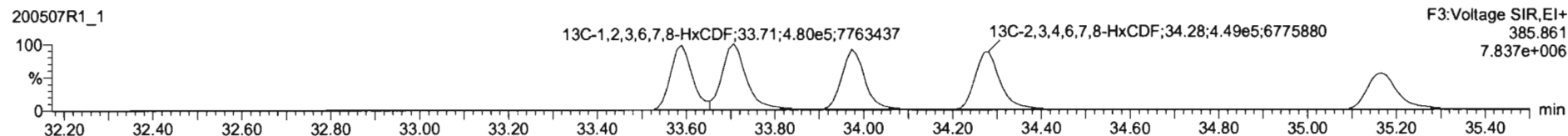
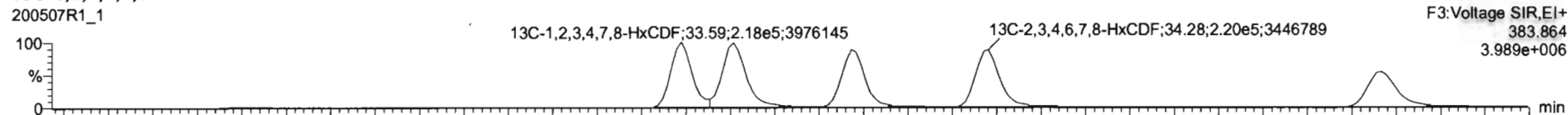
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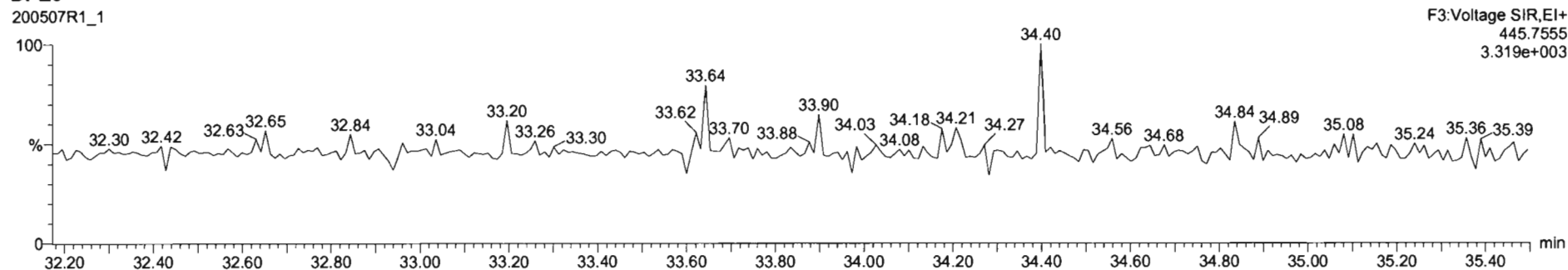
1,2,3,4,7,8-HxCDF



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



DPE3



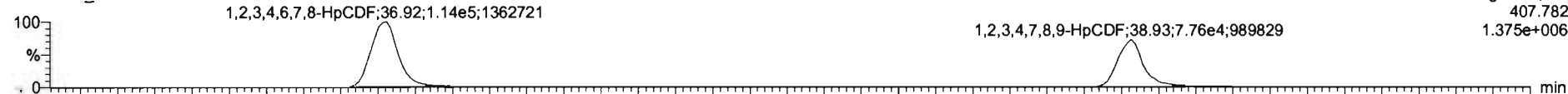
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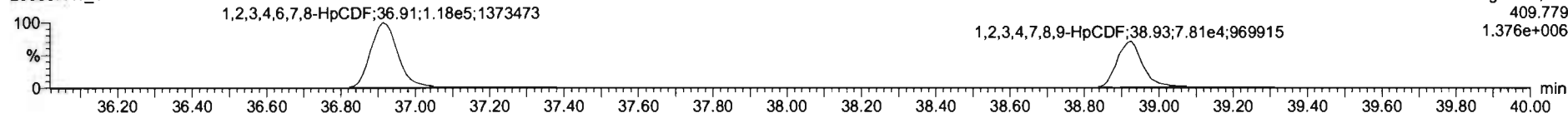
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1,2,3,4,6,7,8-HpCDF

200507R1_1

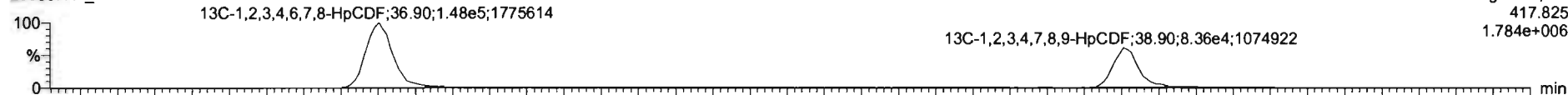


200507R1_1

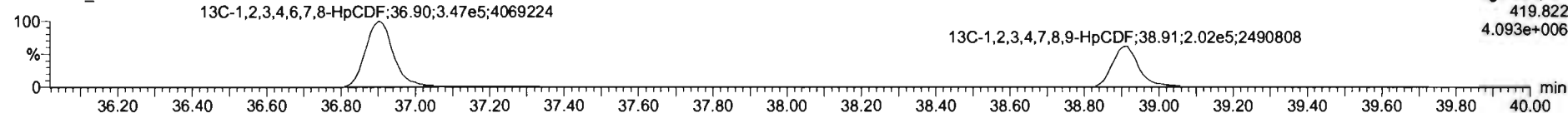


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200507R1_1

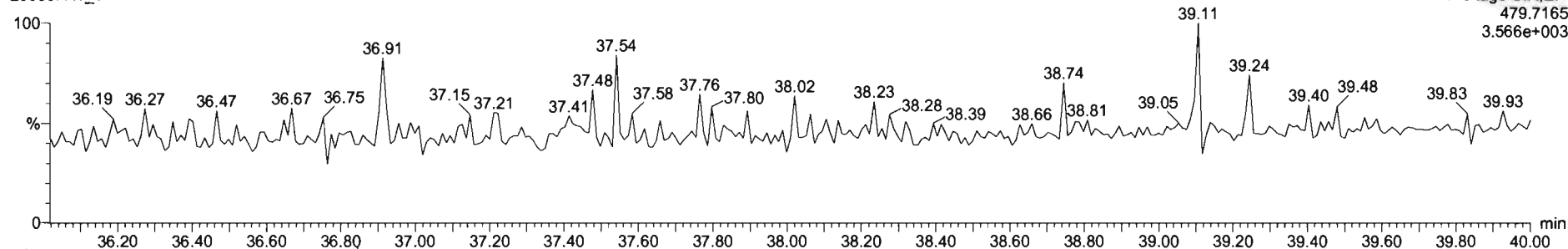


200507R1_1



DPE4

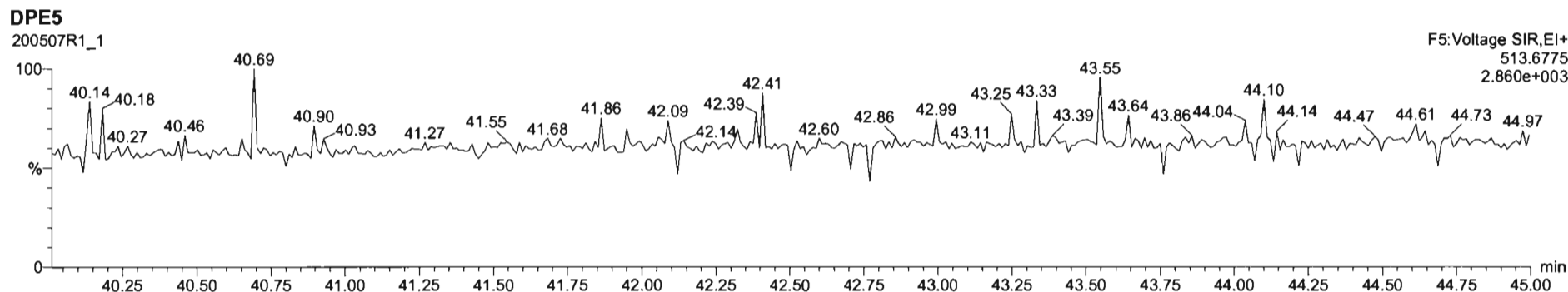
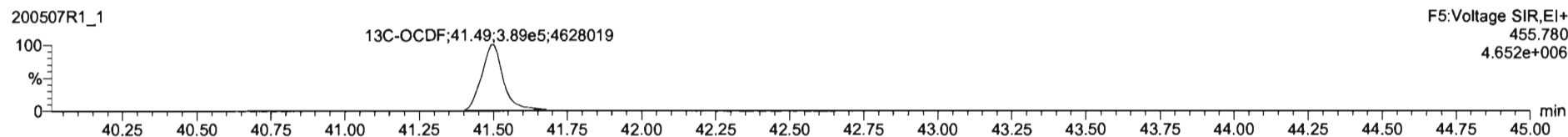
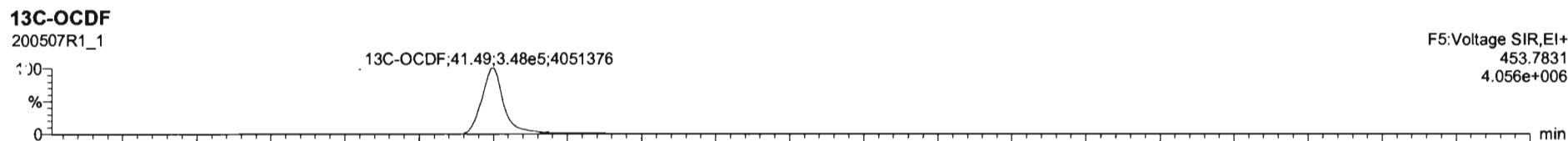
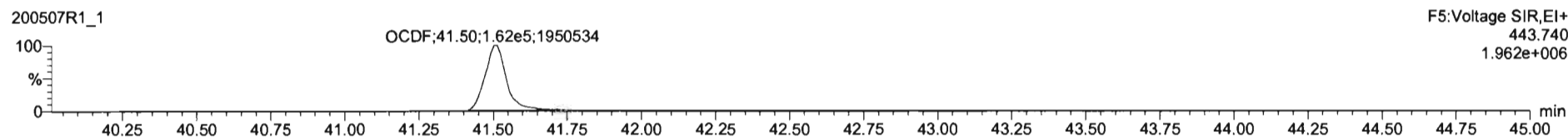
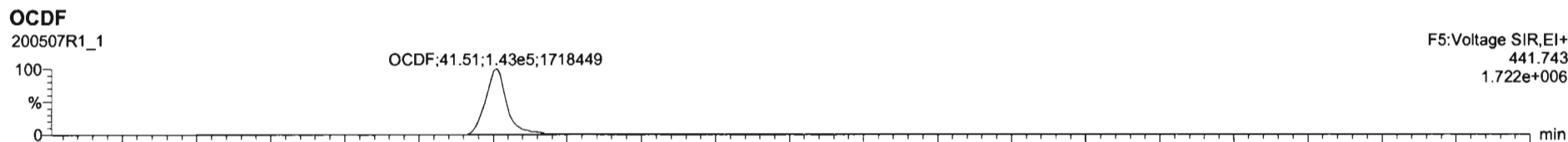
200507R1_1



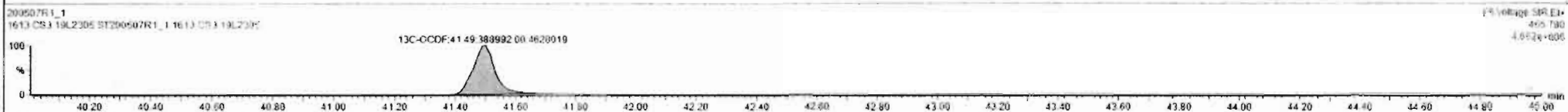
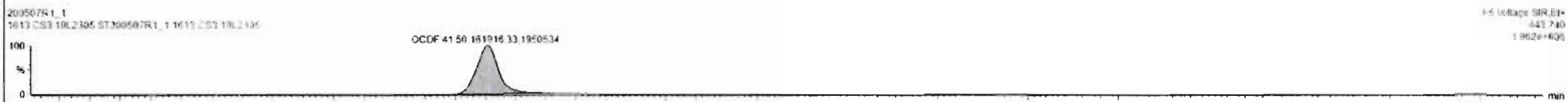
Dataset: Untitled

Last Altered: Thursday, May 07, 2020 9:00:55 AM Pacific Daylight Time
Printed: Thursday, May 07, 2020 9:01:24 AM Pacific Daylight Time

Name: 200507R1_1, Date: 07-May-2020, Time: 08:08:16, ID: ST200507R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	Resp	S Resp	Pred RA	RA	ely	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	7.08e4	9.16e5	0.77	0.76	NO	0.9475	26.01	25.99	NO	1.001	1.001	9.59	90.9	NO
2	1,2,3,7,8-PeCDD	1.88e5	6.85e5	0.63	0.60	NO	0.9425	31.10	31.06	NO	1.001	1.000	46.0	92.1	NO
3	1,2,3,4,7,8-HxCDD	2.70e5	4.55e5	1.24	1.23	NO	1.0541	34.46	34.46	NO	1.000	1.000	47.5	95.0	NO
4	1,2,3,6,7,8-HxCDD	2.72e5	6.96e5	1.24	1.24	NO	0.9145	34.55	34.56	NO	1.000	1.000	49.0	96.1	NO
5	1,2,3,7,8,9-HxCDD	2.73e5	5.49e5	1.24	1.22	NO	0.9149	34.84	34.84	NO	1.000	1.000	47.5	95.2	NO
6	1,2,3,4,6,7,8-HpCDD	1.08e5	4.16e5	1.04	1.03	NO	0.8975	36.33	36.34	NO	1.000	1.001	49.8	95.6	NO
7	OCDD	3.05e5	6.78e5	0.89	0.87	NO	0.9335	41.32	41.33	NO	1.000	1.000	96.5	96.5	NO
8	2,3,7,8-TCDF	9.36e4	1.24e6	0.77	0.73	NO	0.7871	25.04	25.05	NO	1.001	1.001	9.52	96.2	NO
9	1,2,3,7,8-PeCDF	4.26e5	9.78e5	1.55	1.54	NO	0.9102	39.79	39.78	NO	1.001	1.001	47.8	95.8	NO
10	2,3,4,7,8-PeCDF	4.20e5	9.48e5	1.55	1.56	NO	0.9664	30.76	30.77	NO	1.001	1.000	46.8	93.6	NO
11	1,2,3,4,7,8-HxCDF	2.90e5	6.43e5	1.24	1.20	NO	0.8782	32.55	33.60	NO	1.000	1.000	52.9	105	NO
12	1,2,3,6,7,8-HxCDF	3.40e5	7.27e5	1.24	1.19	NO	0.8740	32.72	33.72	NO	1.000	1.000	53.6	107	NO
13	2,3,4,6,7,8-HxCDF	3.17e5	6.70e5	1.24	1.19	NO	0.9217	34.32	34.29	NO	1.001	1.000	51.4	103	NO
14	1,2,3,7,8,9-HxCDF	2.23e5	5.00e5	1.24	1.19	NO	0.9542	35.17	35.18	NO	1.000	1.000	52.7	105	NO
15	1,2,3,4,6,7,8-HpCDF	2.22e5	4.95e5	1.04	0.97	NO	0.8712	36.34	36.92	NO	1.001	1.001	53.8	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.95e5	2.86e5	1.04	0.99	NO	1.0115	36.50	38.93	NO	1.000	1.001	53.8	106	NO
17	OCDF	3.00e5	7.22e5	0.88	0.86	NO	0.8021	41.49	41.51	NO	1.000	1.001	103	103	NO
18	13C-2,3,7,8-TCDD	9.16e5	7.72e5	0.77	0.77	NO	1.1595	25.97	25.97	NO	1.026	1.027	102	102	NO
19	13C-1,2,3,7,8-PeCDD	6.65e5	7.72e5	0.63	0.63	NO	0.8472	31.05	31.06	NO	1.227	1.228	102	102	NO
20	13C-1,2,3,4,7,8-HxCDD	4.55e5	6.15e5	1.24	1.29	NO	0.7199	34.45	34.45	NO	1.014	1.014	98.7	98.7	NO
21	13C-1,2,3,6,7,8-HxCDD	6.06e5	6.15e5	1.24	1.25	NO	0.9630	34.55	34.55	NO	1.017	1.017	102	102	NO



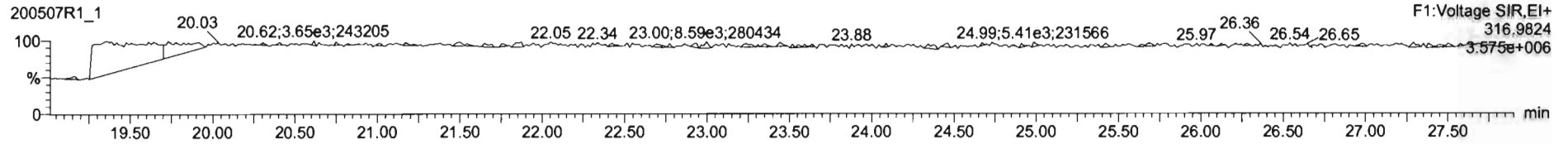
Dataset: Untitled

Last Altered: Thursday, May 07, 2020 9:00:55 AM Pacific Daylight Time

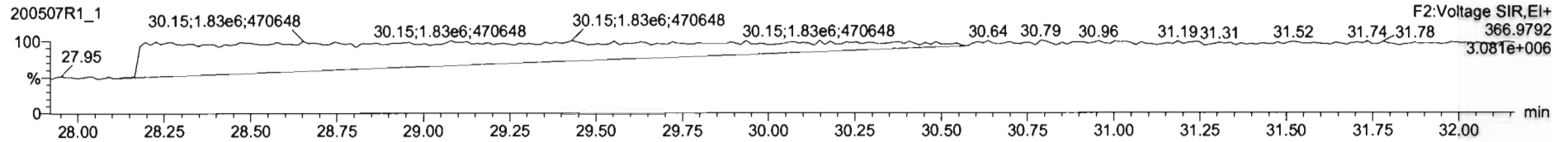
Printed: Thursday, May 07, 2020 9:01:24 AM Pacific Daylight Time

Name: 200507R1_1, Date: 07-May-2020, Time: 08:08:16, ID: ST200507R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

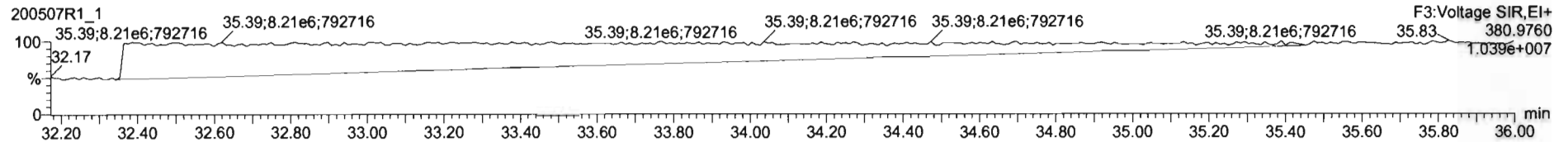
PFK1



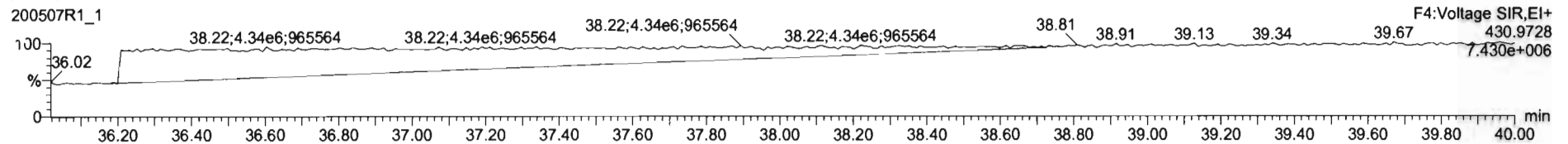
PFK2



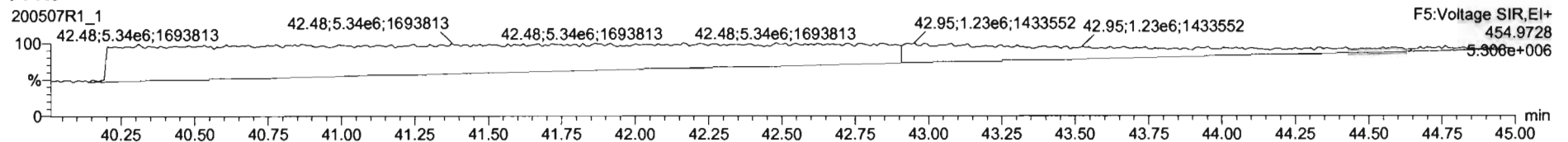
PFK3



PFK4



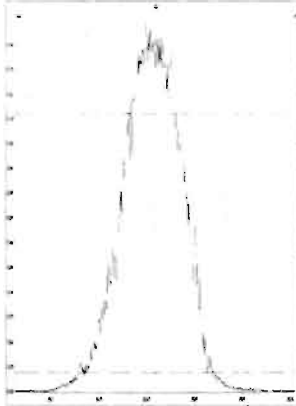
PFK5



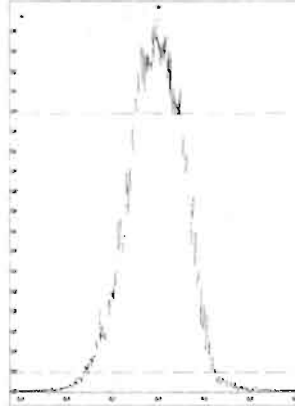
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:29:34 Pacific Daylight Time

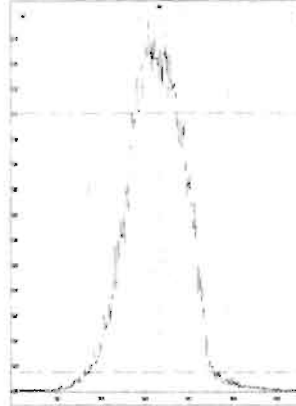
M 292.9824 R 10916



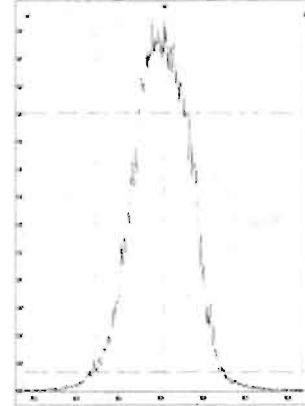
M 304.9824 R 10685



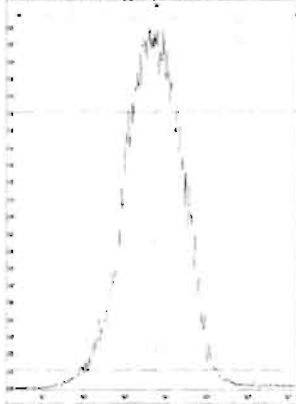
M 318.9792 R 11008



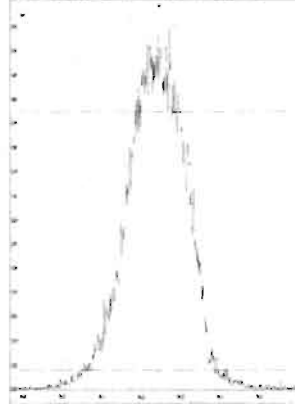
M 330.9792 R 10591



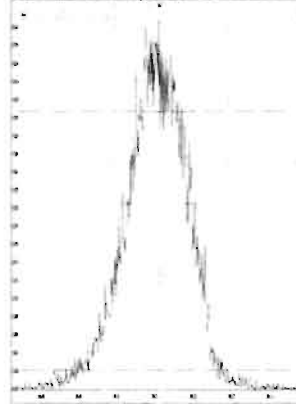
M 342.9792 R 10917



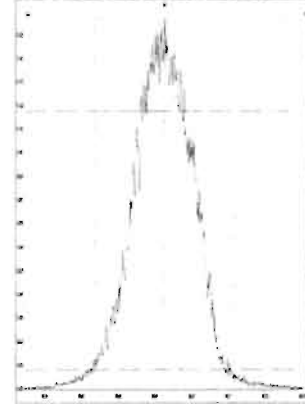
M 354.9792 R 10821



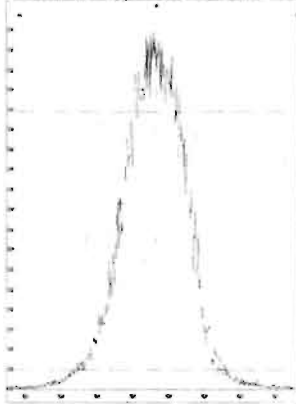
M 366.9792 R 10505



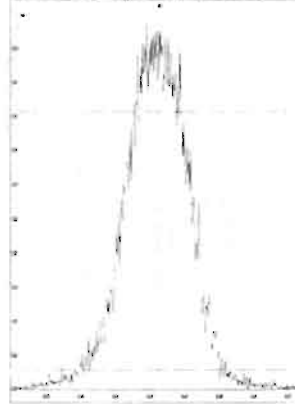
M 380.9760 R 10503



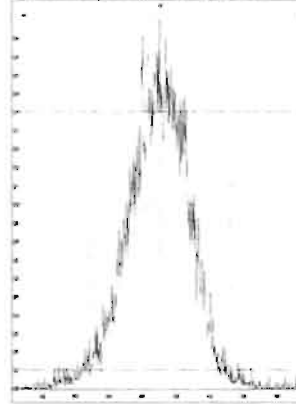
M 392.9760 R 10414



M 404.9760 R 10330



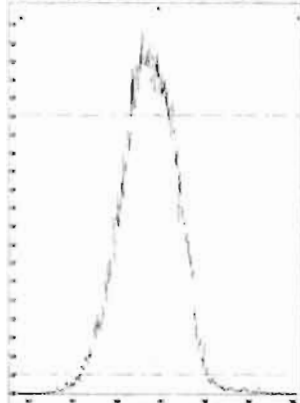
M 416.9760 R 11064



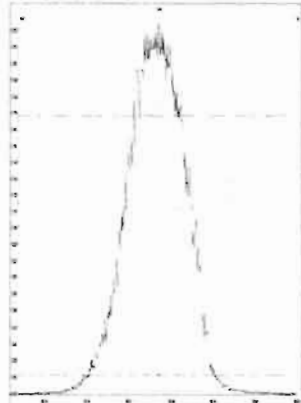
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:30:12 Pacific Daylight Time

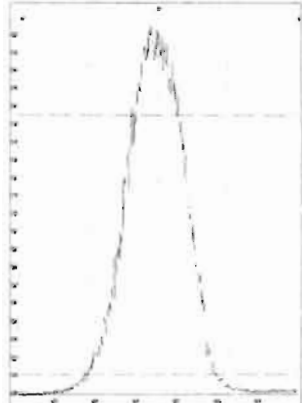
M 318.9792 R 11062



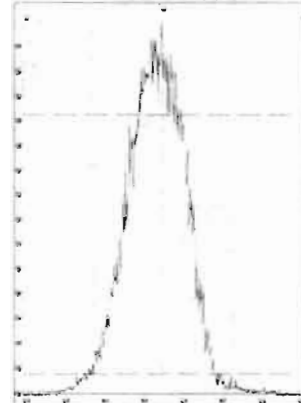
M 330.9792 R 11060



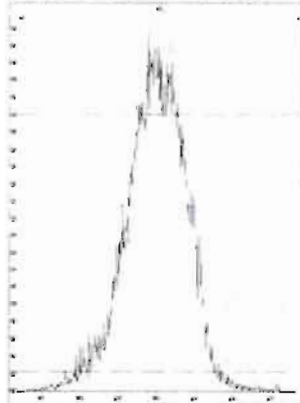
M 342.9792 R 10726



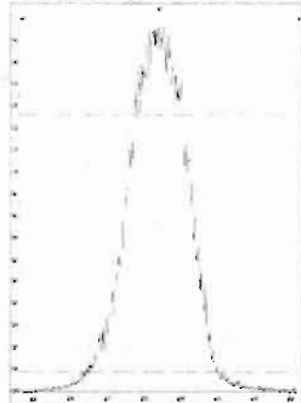
M 354.9792 R 10964



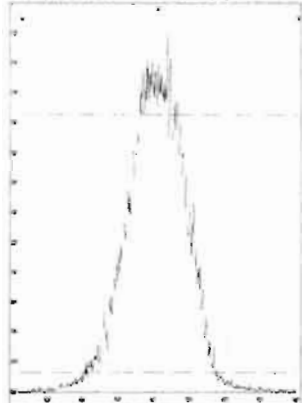
M 366.9792 R 11309



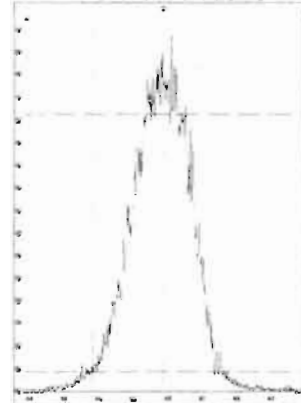
M 380.9760 R 10822



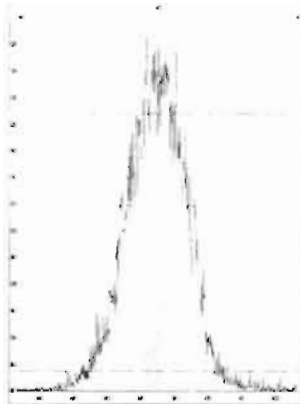
M 392.9760 R 10547



M 404.9760 R 10549



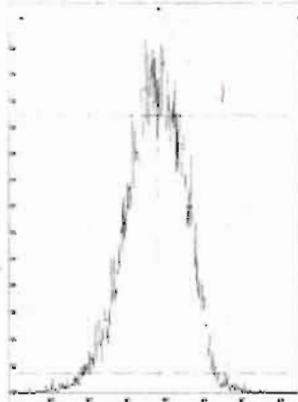
M 416.9760 R 11061



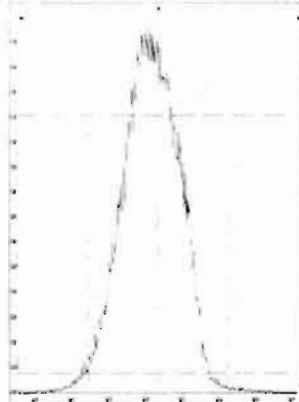
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:30:55 Pacific Daylight Time

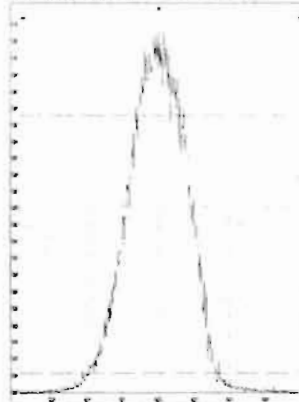
M 366.9792 R 10285



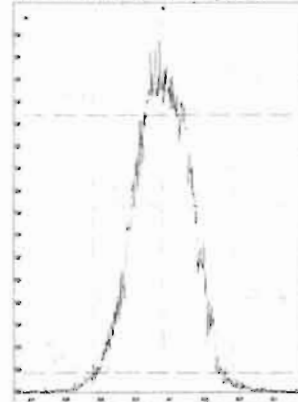
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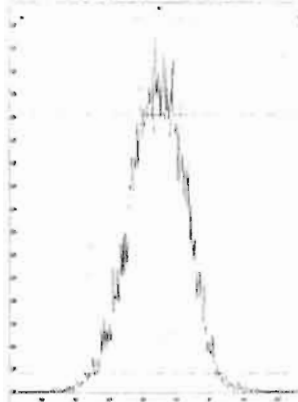
M 392.9760 R 11012



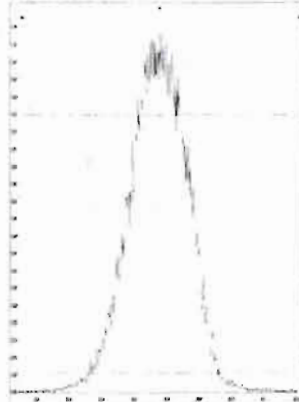
M 404.9760 R 10966



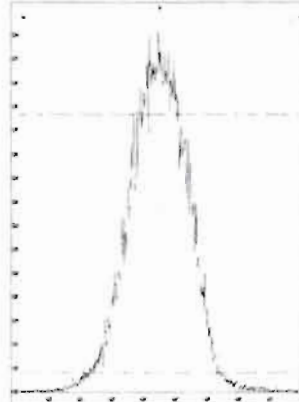
M 416.9760 R 11573



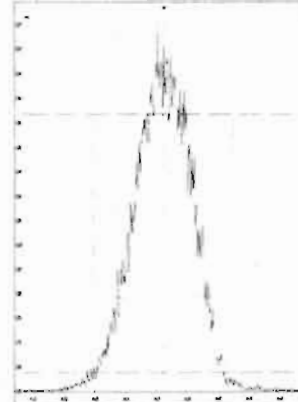
M 430.9728 R 10777



M 442.9728 R 11013



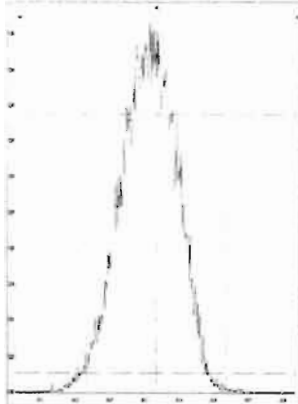
M 454.9728 R 11011



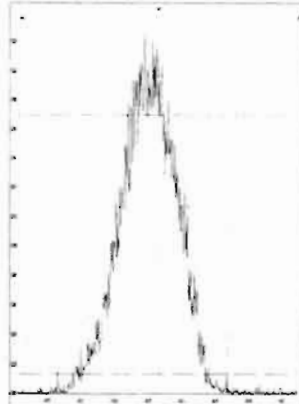
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:31:21 Pacific Daylight Time

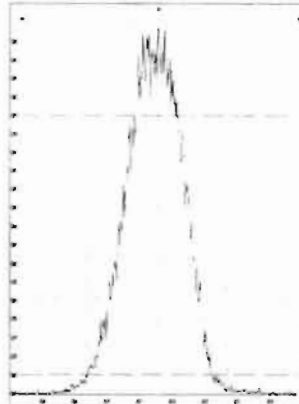
M 404.9760 R 10773



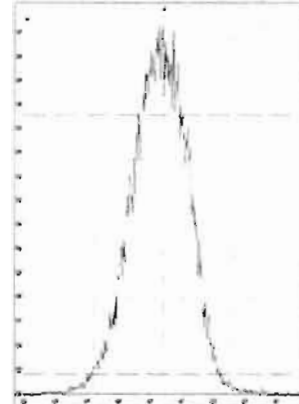
M 416.9760 R 11312



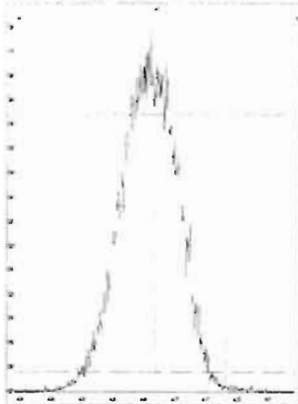
M 430.9728 R 11311



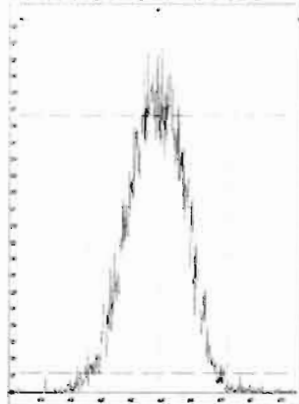
M 442.9728 R 10773



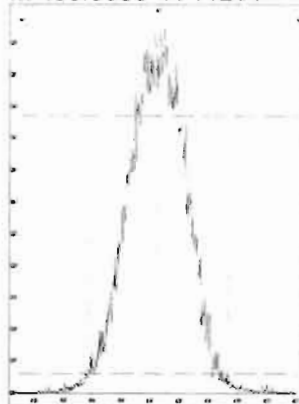
M 454.9728 R 11214



M 466.9728 R 11469



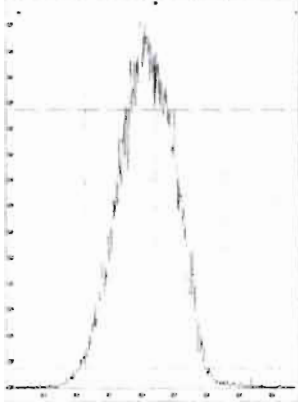
M 480.9696 R 11261



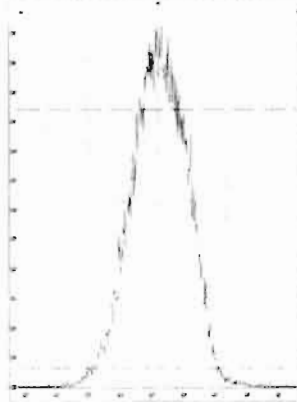
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:31:54 Pacific Daylight Time

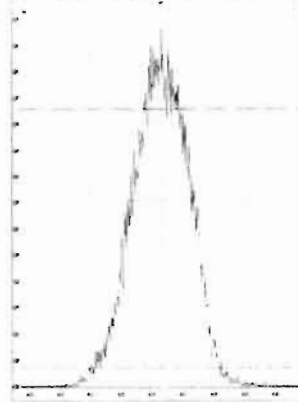
M 430.9728 R 10965



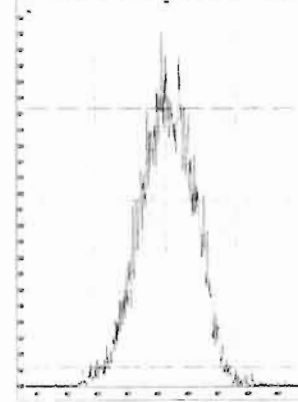
M 442.9728 R 11213



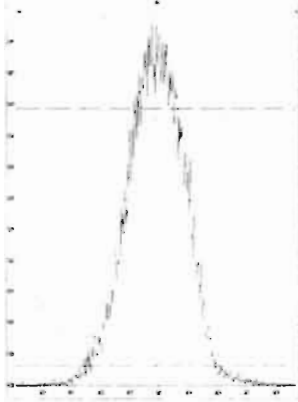
M 454.9728 R 11364



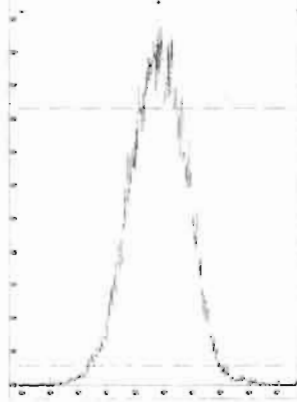
M 466.9728 R 11847



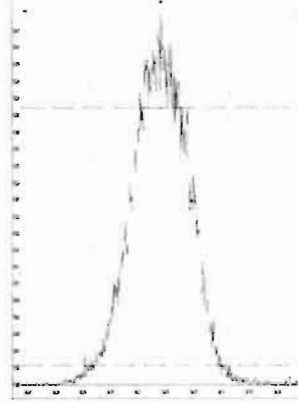
M 480.9696 R 11413



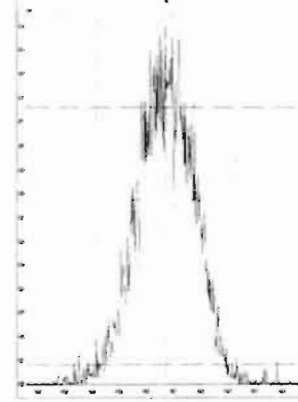
M 492.9696 R 11364



M 504.9696 R 11110



M 516.9697 R 11628



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20050722-1

Reviewed By: GM 05/08/2020
Initials & Date

End Calibration ID: NA

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

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-1.qld

Last Altered: Thursday, May 07, 2020 3:22:08 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:22:30 PM Pacific Daylight Time

GRB 05/07/2020

CT 05/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_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	6.61e4	7.09e5	0.75	NO	0.947	25.98	25.97	NO	1.001	1.001	9.8354	98.4	NO
2	2 1,2,3,7,8-PeCDD	2.17e5	4.98e5	0.62	NO	0.942	31.09	31.08	NO	1.001	1.000	46.351	92.7	NO
3	3 1,2,3,4,7,8-HxCDD	1.63e5	3.23e5	1.25	NO	1.06	34.45	34.46	NO	1.000	1.001	47.410	94.8	NO
4	4 1,2,3,6,7,8-HxCDD	1.93e5	4.33e5	1.26	NO	0.915	34.55	34.56	NO	1.000	1.000	48.854	97.7	NO
5	5 1,2,3,7,8,9-HxCDD	1.62e5	3.72e5	1.26	NO	0.915	34.84	34.84	NO	1.000	1.000	47.498	95.0	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.13e5	2.51e5	1.07	NO	0.898	38.34	38.33	NO	1.000	1.000	49.949	99.9	NO
7	7 OCDD	1.69e5	3.71e5	0.89	NO	0.933	41.31	41.32	NO	1.000	1.000	97.301	97.3	NO
8	8 2,3,7,8-TCDF	7.03e4	9.44e5	0.75	NO	0.787	25.03	25.03	NO	1.001	1.001	9.4599	94.6	NO
9	9 1,2,3,7,8-PeCDF	3.30e5	7.57e5	1.58	NO	0.910	29.77	29.77	NO	1.001	1.001	47.944	95.9	NO
10	10 2,3,4,7,8-PeCDF	3.27e5	7.30e5	1.57	NO	0.966	30.79	30.76	NO	1.001	1.000	46.393	92.8	NO
11	11 1,2,3,4,7,8-HxCDF	2.11e5	4.65e5	1.22	NO	0.878	33.59	33.60	NO	1.000	1.000	51.693	103	NO
12	12 1,2,3,6,7,8-HxCDF	2.46e5	5.38e5	1.25	NO	0.874	33.72	33.72	NO	1.000	1.000	52.254	105	NO
13	13 2,3,4,6,7,8-HxCDF	2.24e5	4.76e5	1.20	NO	0.922	34.32	34.29	NO	1.001	1.000	51.124	102	NO
14	14 1,2,3,7,8,9-HxCDF	1.52e5	3.28e5	1.22	NO	0.864	35.17	35.18	NO	1.000	1.000	53.546	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.58e5	3.40e5	0.98	NO	0.871	36.94	36.91	NO	1.001	1.000	53.331	107	NO
16	16 1,2,3,4,7,8,9-HpCDF	9.03e4	1.66e5	0.99	NO	1.01	38.92	38.93	NO	1.000	1.000	53.770	108	NO
17	17 OCDF	1.44e5	3.50e5	0.87	NO	0.802	41.49	41.50	NO	1.000	1.000	102.65	103	NO
18	18 13C-2,3,7,8-TCDD	7.09e5	6.09e5	0.77	NO	1.16	25.94	25.94	NO	1.026	1.027	100.37	100	NO
19	19 13C-1,2,3,7,8-PeCDD	4.98e5	6.09e5	0.62	NO	0.847	31.01	31.06	NO	1.227	1.229	96.420	96.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.23e5	4.44e5	1.29	NO	0.750	34.45	34.44	NO	1.014	1.014	97.005	97.0	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.33e5	4.44e5	1.28	NO	0.963	34.56	34.55	NO	1.017	1.017	101.17	101	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.72e5	4.44e5	1.25	NO	0.838	34.83	34.83	NO	1.025	1.025	99.995	100	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.51e5	4.44e5	1.03	NO	0.641	38.32	38.33	NO	1.128	1.128	88.200	88.2	NO
24	24 13C-OCDD	3.71e5	4.44e5	0.88	NO	0.586	41.31	41.31	NO	1.216	1.216	142.56	71.3	NO
25	25 13C-2,3,7,8-TCDF	9.44e5	9.14e5	0.76	NO	1.03	25.00	25.00	NO	0.989	0.989	99.893	99.9	NO
26	26 13C-1,2,3,7,8-PeCDF	7.57e5	9.14e5	1.59	NO	0.845	29.71	29.75	NO	1.176	1.177	98.062	98.1	NO
27	27 13C-2,3,4,7,8-PeCDF	7.30e5	9.14e5	1.57	NO	0.814	30.69	30.76	NO	1.215	1.217	98.145	98.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.65e5	4.44e5	0.51	NO	1.00	33.59	33.59	NO	0.989	0.989	104.14	104	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.38e5	4.44e5	0.52	NO	1.14	33.71	33.71	NO	0.992	0.992	106.51	107	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.76e5	4.44e5	0.50	NO	1.02	34.28	34.28	NO	1.009	1.009	104.87	105	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.28e5	4.44e5	0.51	NO	0.845	35.17	35.17	NO	1.035	1.035	87.294	87.3	NO

Dataset: U:\VG12.PRO\Results\200507R2\200507R2-1.qld

Last Altered: Thursday, May 07, 2020 3:22:08 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 3:22:30 PM Pacific Daylight Time

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.40e5	4.44e5	0.43	NO	0.771	36.90	36.90	NO	1.086	1.086	99.111	99.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.66e5	4.44e5	0.42	NO	0.482	38.91	38.92	NO	1.145	1.145	77.470	77.5	NO
34	34 13C-OCDF	3.50e5	4.44e5	0.87	NO	0.669	41.48	41.49	NO	1.221	1.221	117.80	58.9	NO
35	35 37Cl-2,3,7,8-TCDD	6.41e4	6.09e5			1.10	25.97	25.97	NO	1.028	1.028	9.5732	95.7	NO
36	36 13C-1,2,3,4-TCDD	6.09e5	6.09e5	0.79	NO	1.00	25.35	25.27	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	9.14e5	9.14e5	0.77	NO	1.00	23.56	23.48	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.44e5	4.44e5	0.51	NO	1.00	34.00	33.97	NO	1.000	1.000	100.00	100	YES 

Dataset: Untitled

Last Altered: Friday, May 08, 2020 7:17:31 AM Pacific Daylight Time

Printed: Friday, May 08, 2020 7:18:36 AM Pacific Daylight Time

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

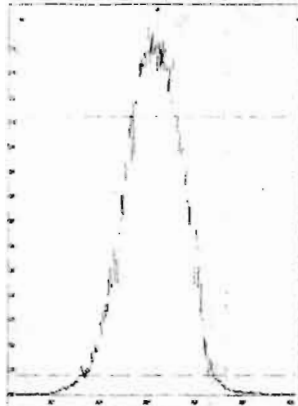
Compound name: OCDD

	Name	ID	Acq.Date	Acq.Time
1	200507R2_1	ST200507R2_1 1613 CS3 19L2305	07-May-20	14:32:16
2	200507R2_2	SOLVENT BLANK	07-May-20	15:19:20
3	200507R2_3	2000952-03 PDI-158SC-A-06-07-200423 12.38	07-May-20	16:05:36
4	200507R2_4	2000952-04 PDI-158SC-A-07-08-200423 11.57	07-May-20	16:51:47
5	200507R2_5	2000952-05 PDI-160SC-A-00-01-200423 12.66	07-May-20	17:38:00
6	200507R2_6	2000952-06 PDI-160SC-A-01-02-200423 11.31	07-May-20	18:24:10
7	200507R2_7	2000952-07 PDI-160SC-A-02-03-200423 12.43	07-May-20	19:10:22
8	200507R2_8	2000952-08 PDI-160SC-A-03-04-200423 11.13	07-May-20	19:56:35
9	200507R2_9	2000952-09 PDI-160SC-A-04-05-200423 12.83	07-May-20	20:42:46
10	200507R2_10	2000952-10 PDI-160SC-A-05-06-200423 13.33	07-May-20	21:28:58
11	200507R2_11	2000952-11 PDI-160SC-A-06-07-200423 11.27	07-May-20	22:15:10
12	200507R2_12	2000952-12 PDI-160SC-A-07-08-200423 11.38	07-May-20	23:01:21
13	200507R2_13	2000953-03 PDI-165SC-A-02-03-200426 12.05	07-May-20	23:47:31
14	200507R2_14	2000953-04 PDI-165SC-A-03-04-200426 12.12	08-May-20	00:33:43
15	200507R2_15	2000953-05 PDI-165SC-A-04-05-200426 12.11	08-May-20	01:20:05
16	200507R2_16	2000953-06 PDI-165SC-A-05-06-200426 12.02	08-May-20	02:06:17

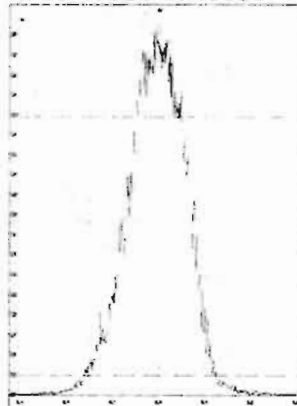
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:29:34 Pacific Daylight Time

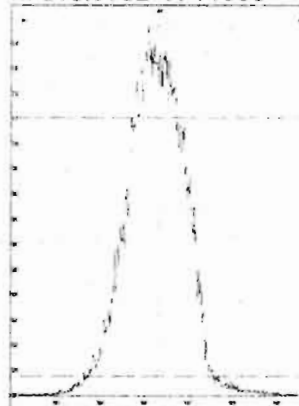
M 292.9824 R 10916



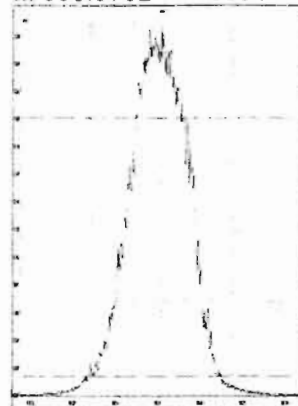
M 304.9824 R 10685



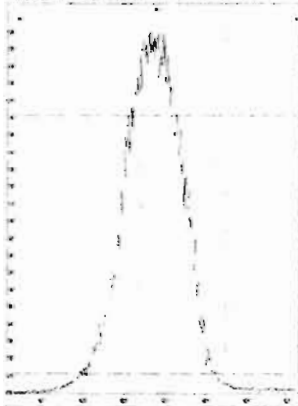
M 318.9792 R 11008



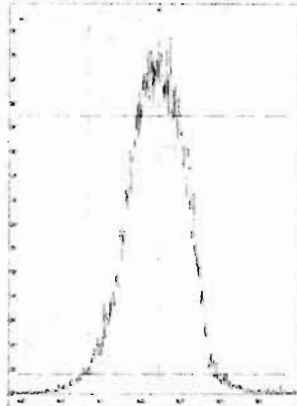
M 330.9792 R 10591



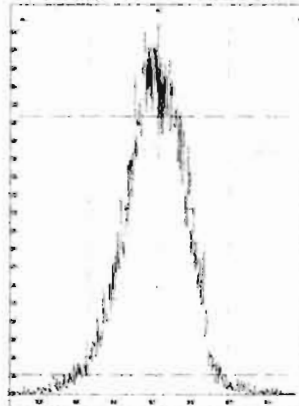
M 342.9792 R 10917



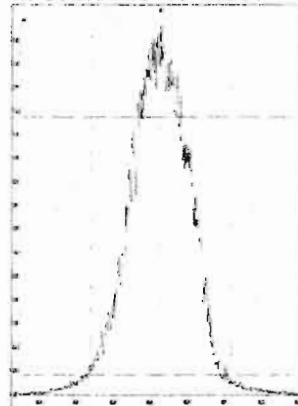
M 354.9792 R 10821



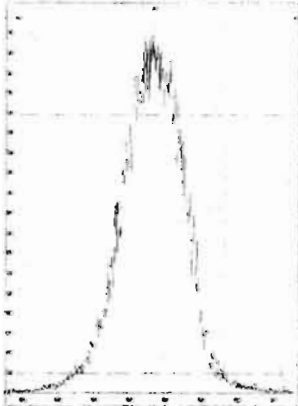
M 366.9792 R 10505



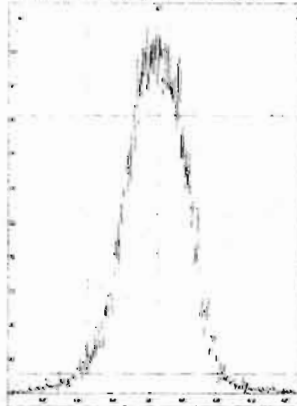
M 380.9760 R 10503



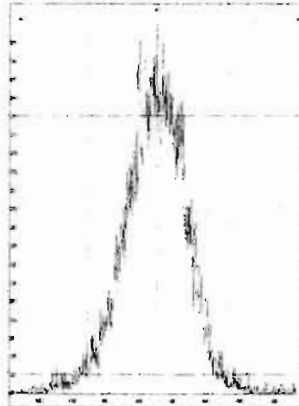
M 392.9760 R 10414



M 404.9760 R 10330



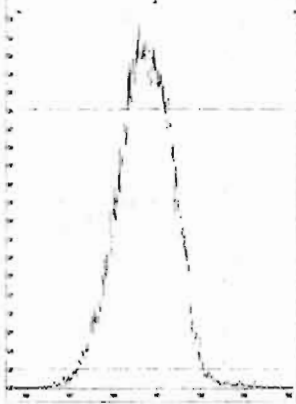
M 416.9760 R 11064



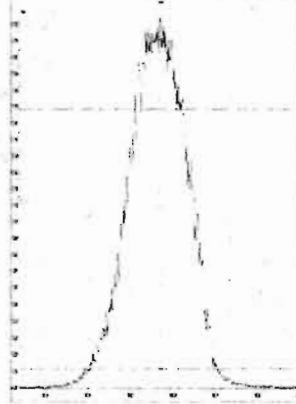
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:30:12 Pacific Daylight Time

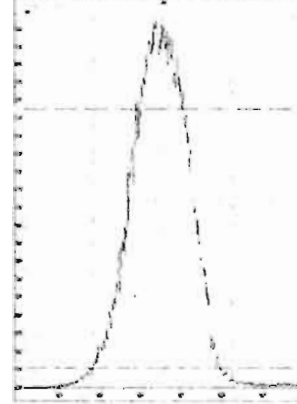
M 318.9792 R 11062



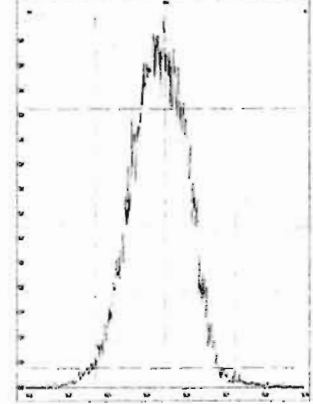
M 330.9792 R 11060



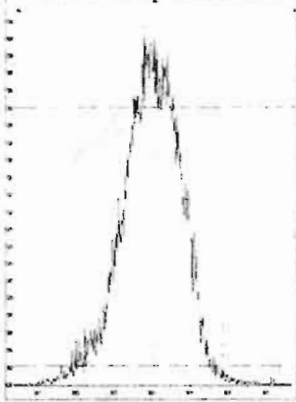
M 342.9792 R 10726



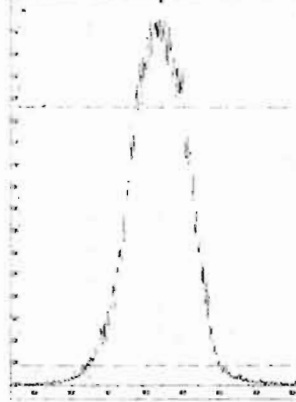
M 354.9792 R 10964



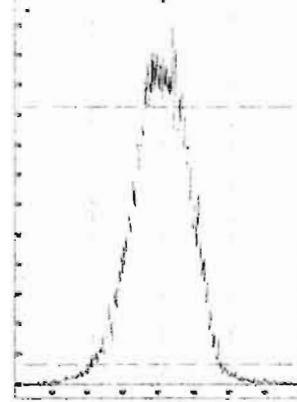
M 366.9792 R 11309



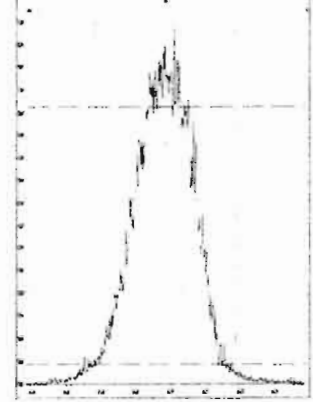
M 380.9760 R 10822



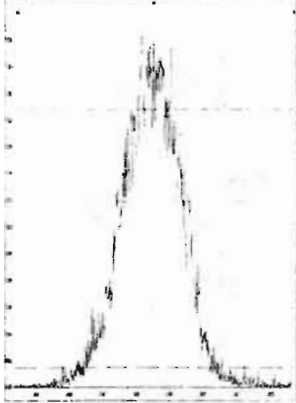
M 392.9760 R 10547



M 404.9760 R 10549



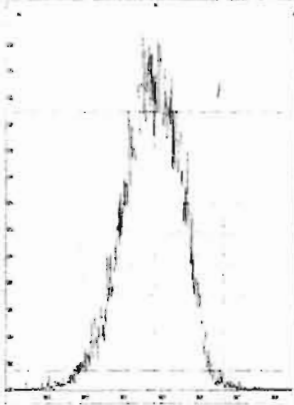
M 416.9760 R 11061



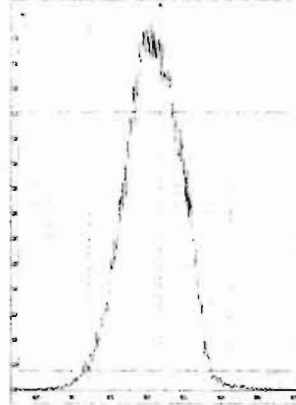
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:30:55 Pacific Daylight Time

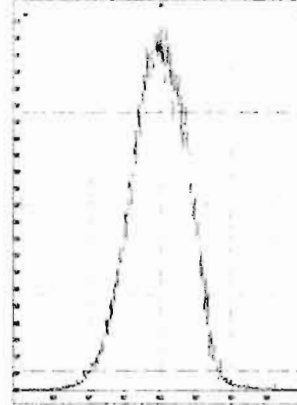
M 366.9792 R 10285



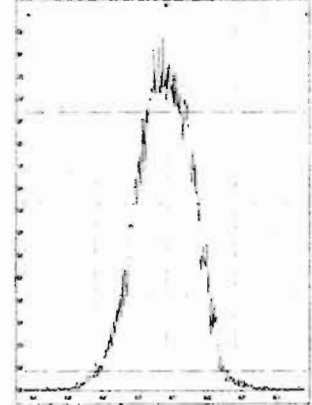
M 380.9760 R 11257



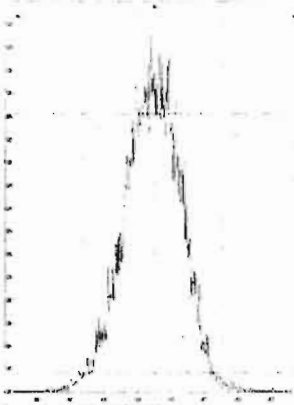
M 392.9760 R 11012



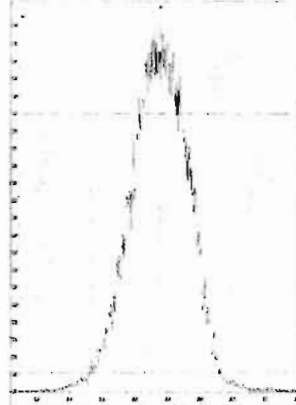
M 404.9760 R 10966



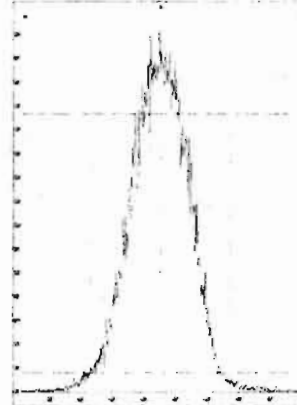
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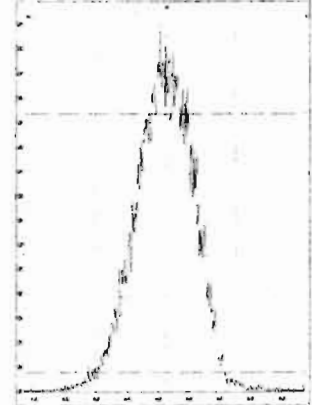
M 430.9728 R 10777



M 442.9728 R 11013



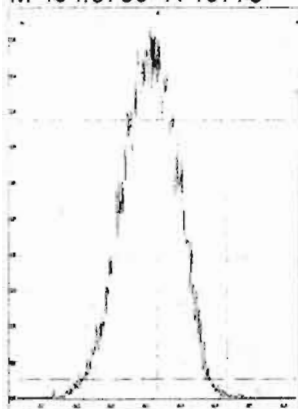
M 454.9728 R 11011



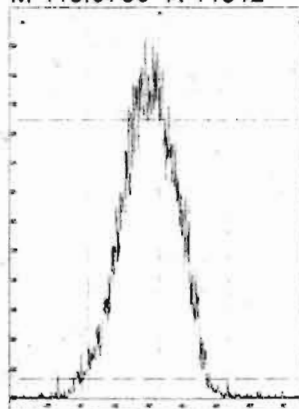
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:31:21 Pacific Daylight Time

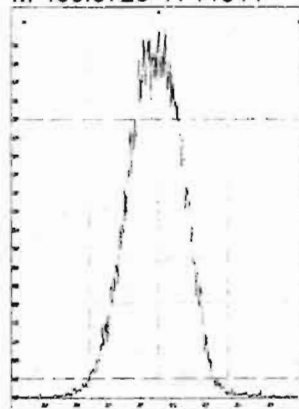
M 404.9760 R 10773



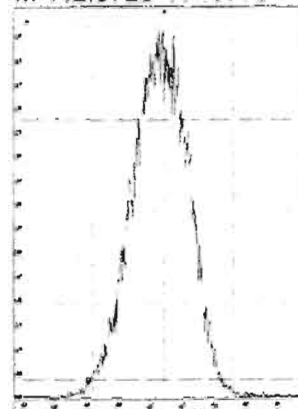
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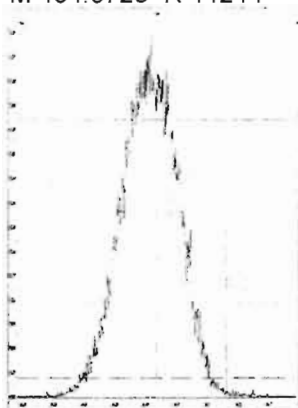
M 430.9728 R 11311



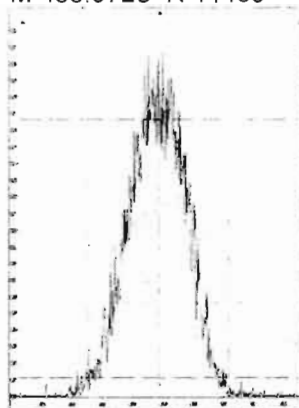
M 442.9728 R 10773



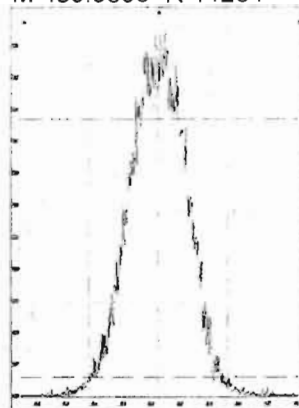
M 454.9728 R 11214



M 466.9728 R 11469



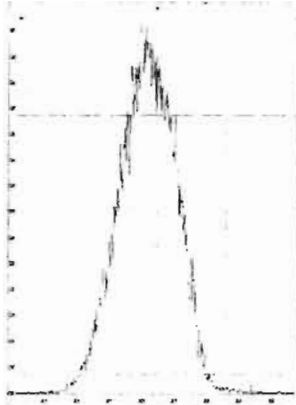
M 480.9696 R 11261



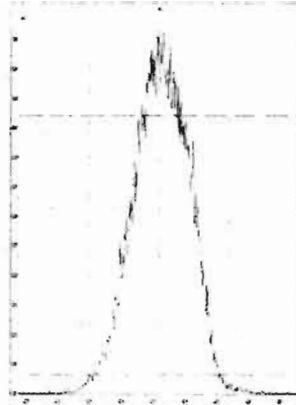
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, May 07, 2020 14:31:54 Pacific Daylight Time

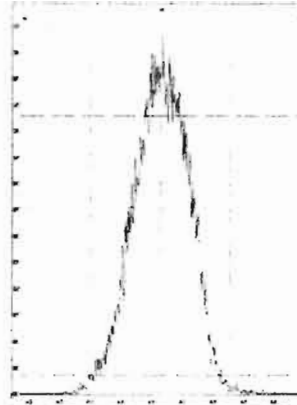
M 430.9728 R 10965



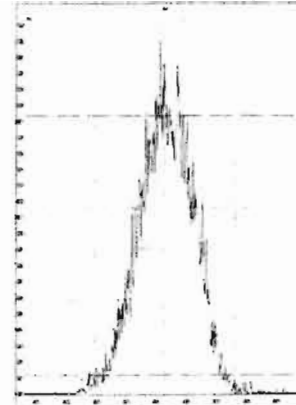
M 442.9728 R 11213



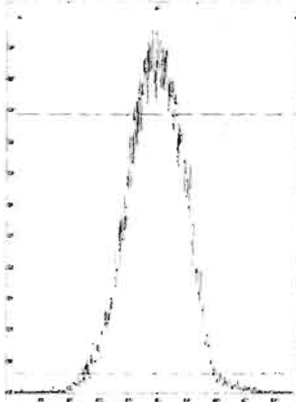
M 454.9728 R 11364



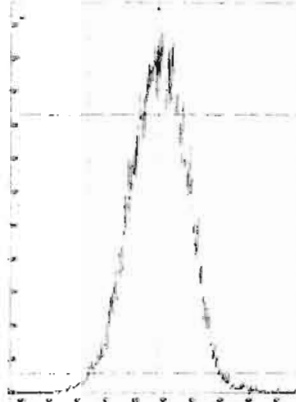
M 466.9728 R 11847



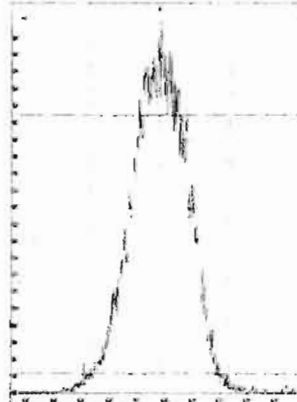
M 480.9696 R 11413



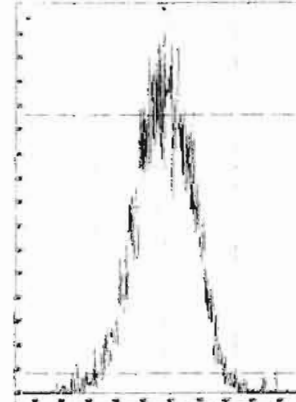
M 492.9696 R 11364



M 504.9696 R 11110



M 516.9697 R 11628



Dataset: Untitled

Last Altered: Thursday, May 07, 2020 3:22:39 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:22:57 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,1,3,6,8-TCDD (First)	21.78
2	1,2,8,9-TCDD (Last)	26.98
3	1,2,4,7,9-PeCDD (First)	28.84
4	1,2,3,8,9-PeCDD (Last)	31.48
5	1,2,4,6,7,9-HxCDD (First)	32.99
6	1,2,3,7,8,9-HxCDD (Last)	34.84
7	1,2,3,4,6,7,9-HpCDD (First)	37.31
8	1,2,3,4,6,7,8-HpCDD (Last)	38.33
9	1,3,6,8-TCDF (First)	19.72
10	1,2,8,9-TCDF (Last)	27.13
11	1,1,3,4,6,8-PeCDF (First)	27.10
12	1,2,3,8,9-PeCDF (Last)	31.72
13	1,2,3,4,6,8-HxCDF (First)	32.43
14	1,2,3,7,8,9-HxCDF (Last)	35.18
15	1,2,3,4,6,7,8-HpCDF (First)	36.91
16	1,2,3,4,7,8,9-HpCDF (Last)	38.93

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, May 07, 2020 3:22:39 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 3:22:57 PM Pacific Daylight Time

GRB 05/07/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

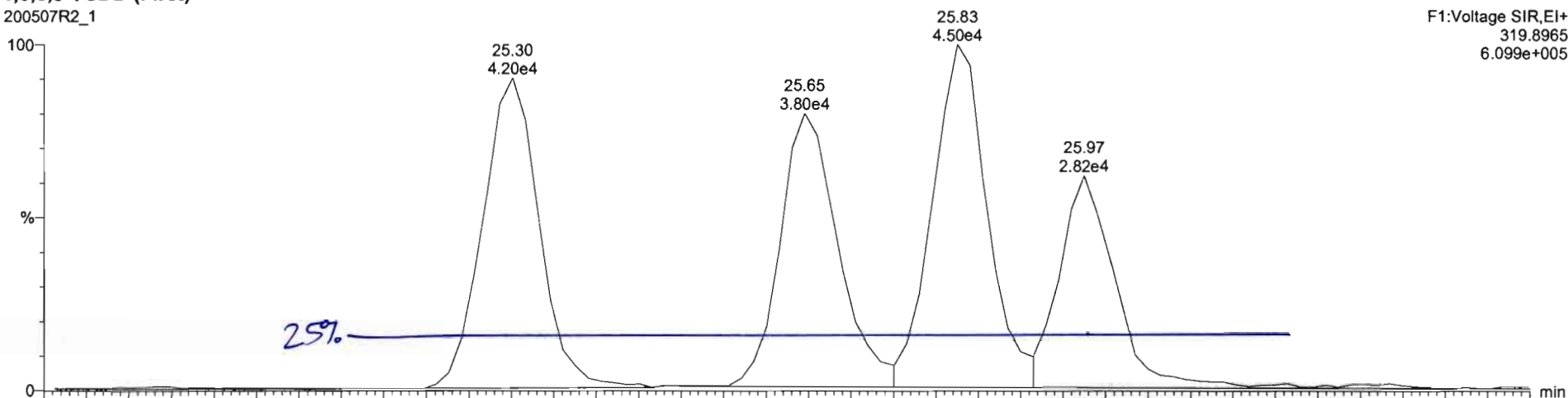
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

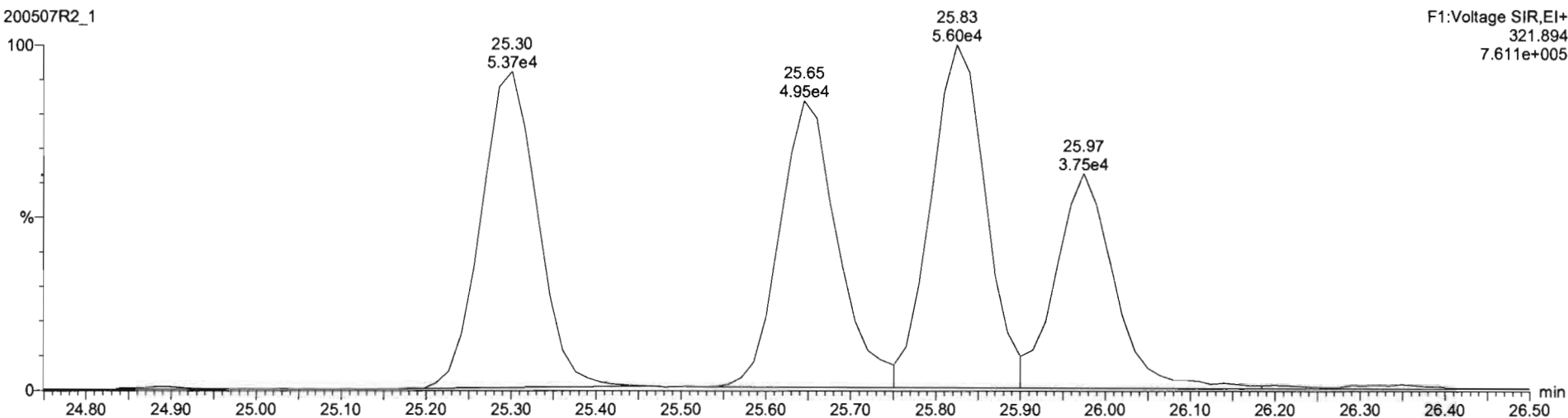
200507R2_1

F1:Voltage SIR,EI+
319.8965
6.099e+005



200507R2_1

F1:Voltage SIR,EI+
321.894
7.611e+005



Dataset: Untitled

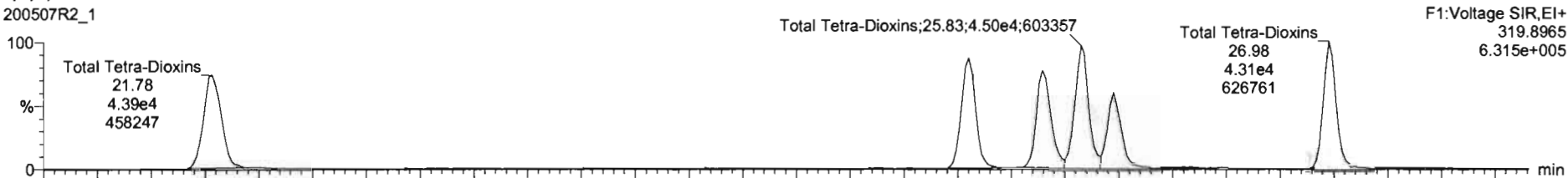
Last Altered: Thursday, May 07, 2020 3:18:32 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

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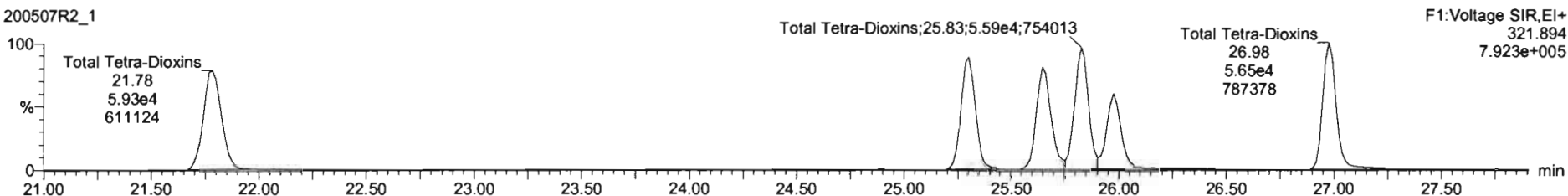
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2,3,7,8-TCDD

200507R2_1

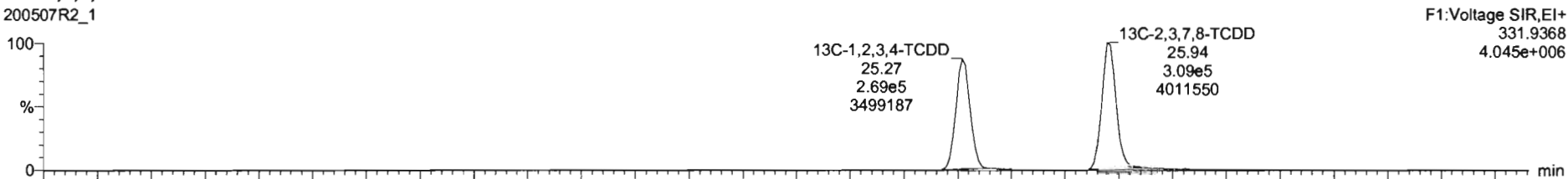


200507R2_1

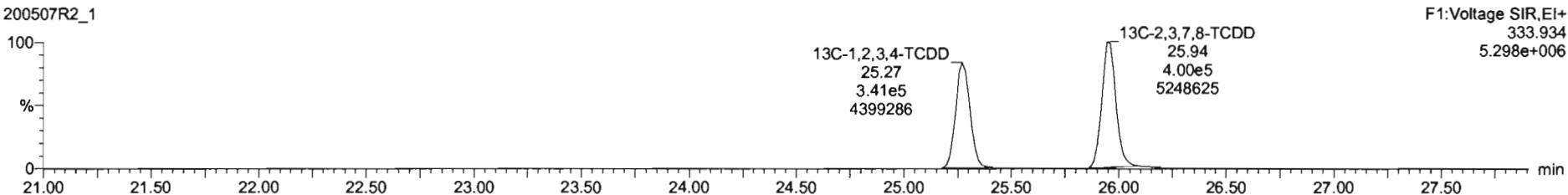


13C-2,3,7,8-TCDD

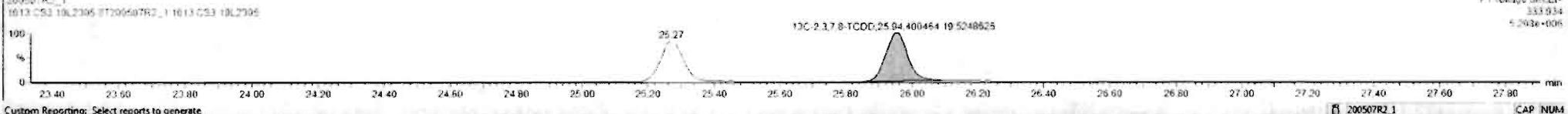
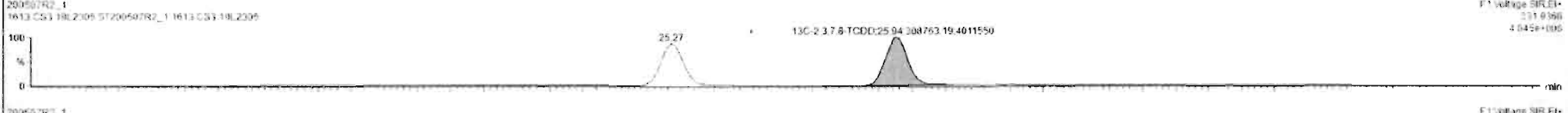
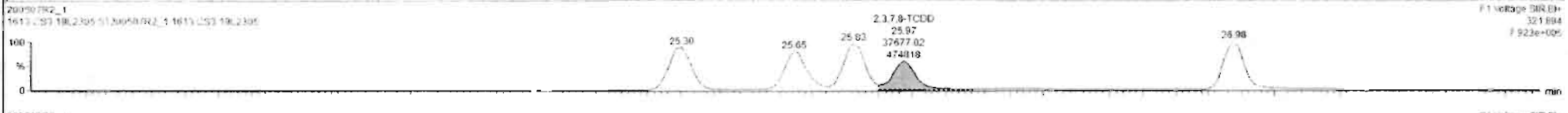
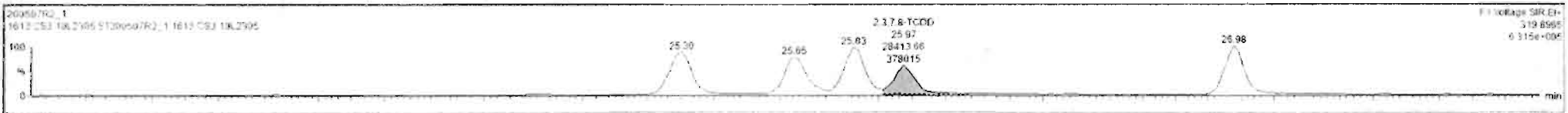
200507R2_1



200507R2_1



#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	6.61e4	0.75	NO	0.95	1.000	25.97	1.001	9.84	98.4	0.107	9.84
2	1,2,3,7,8-PeCDD	2.17e5	0.82	NO	0.94	1.000	31.08	1.000	46.4	92.7	0.223	46.4
3	1,2,3,4,7,8-HxCDD	1.83e5	1.25	NO	1.06	1.000	34.46	1.001	47.4	94.8	0.246	47.4
4	1,2,3,6,7,8-HxCDD	1.93e5	1.06	NO	0.91	1.000	34.56	1.000	48.9	97.7	0.250	48.9
5	1,2,3,7,8,9-HxCDD	1.62e5	1.26	NO	0.91	1.000	34.64	1.000	47.5	96.0	0.305	47.5
6	1,2,3,4,6,7,8-HpCDD	1.13e5	1.07	NO	0.90	1.000	36.33	1.000	49.9	99.9	0.473	49.9
7	OCDD	1.78e5	0.88	NO	0.93	1.000	41.32	1.000	98.9	98.9	0.322	98.9
8	2,3,7,8-TCDF	7.03e4	0.75	NO	0.79	1.000	25.03	1.001	9.46	94.6	0.109	9.46
9	1,2,3,7,8-PeCDF	3.36e5	1.58	NO	0.91	1.000	29.77	1.001	47.9	95.5	0.207	47.9
10	2,3,4,7,8-PeCDF	2.27e5	1.57	NO	0.97	1.000	30.76	1.000	46.4	92.8	0.199	46.4
11	1,2,3,4,7,8-HxCDF	2.11e5	1.22	NO	0.88	1.000	33.60	1.000	51.7	103	0.290	51.7
12	1,2,3,6,7,8-HxCDF	2.46e5	1.25	NO	0.87	1.000	33.72	1.000	52.3	105	0.301	52.3
13	2,3,4,6,7,8-HxCDF	2.24e5	1.26	NO	0.92	1.000	34.29	1.000	51.1	102	0.326	51.1
14	1,2,3,7,8,9-HxCDF	1.52e5	1.22	NO	0.86	1.000	36.16	1.000	53.5	107	0.554	53.5
15	1,2,3,4,6,7,8-HpCDF	1.58e5	0.98	NO	0.87	1.000	36.91	1.000	53.3	107	0.435	53.3
16	1,2,3,4,7,8,9-HxCDF	9.03e4	0.99	NO	1.01	1.000	38.93	1.000	53.8	108	0.725	53.8
17	OCDF	1.47e5	0.80	NO	0.80	1.000	41.50	1.000	102	102	0.284	102
18	13C-2,3,7,8-TCDD	7.09e5	0.77	NO	1.16	1.000	25.94	1.027	100	100	0.224	
19	13C-1,2,3,7,8-PeCDD	4.98e5	0.82	NO	0.95	1.000	31.00	1.229	96.4	96.4	0.204	
20	13C-1,2,3,4,7,8-HxCDD	3.23e5	1.29	NO	0.75	1.000	34.44	1.014	97.0	97.0	0.544	
21	13C-1,2,3,6,7,8-HxCDD	4.33e5	1.28	NO	0.96	1.000	34.55	1.017	101	101	0.424	



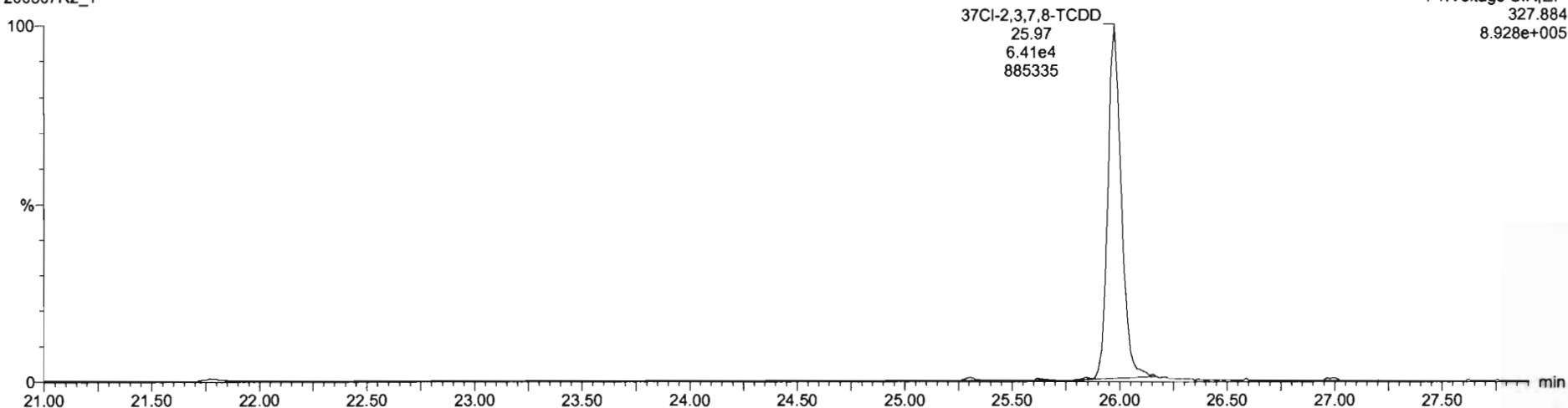
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Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

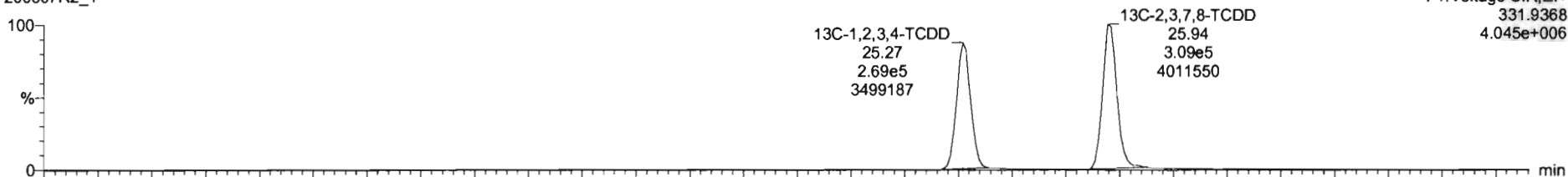
37Cl-2,3,7,8-TCDD

200507R2_1

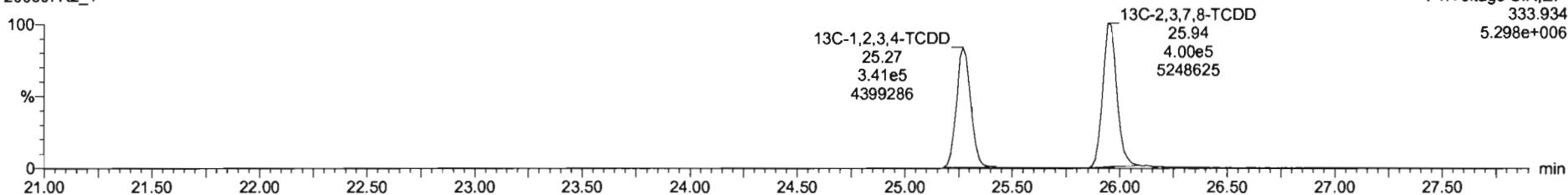


13C-1,2,3,4-TCDD

200507R2_1



200507R2_1



Dataset: Untitled

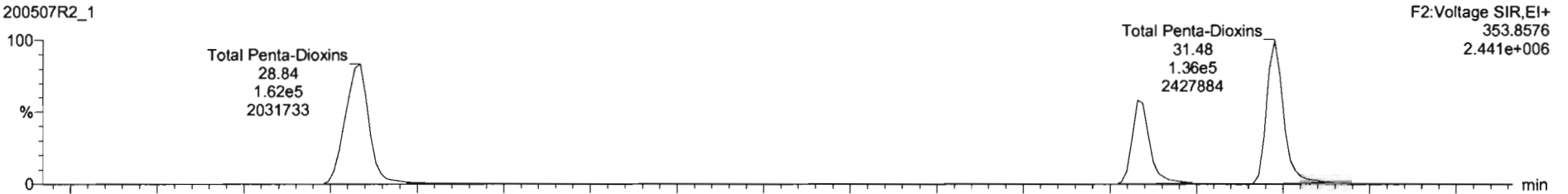
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Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

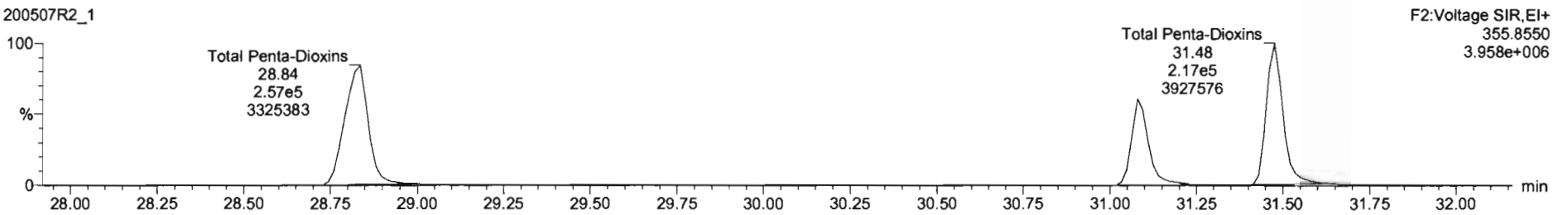
1,2,3,7,8-PeCDD

200507R2_1



F2:Voltage SIR,EI+
353.8576
2.441e+006

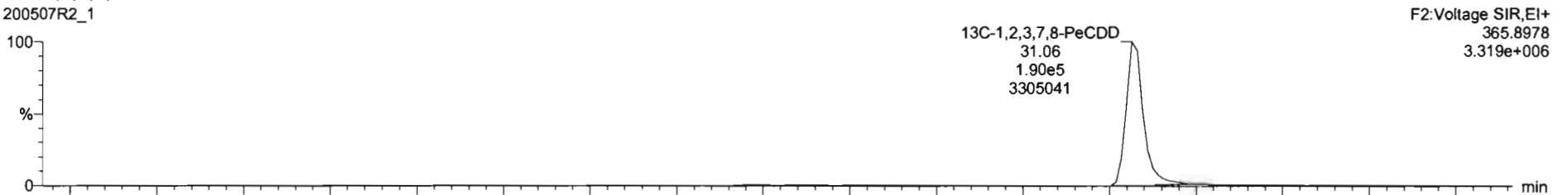
200507R2_1



F2:Voltage SIR,EI+
355.8550
3.958e+006

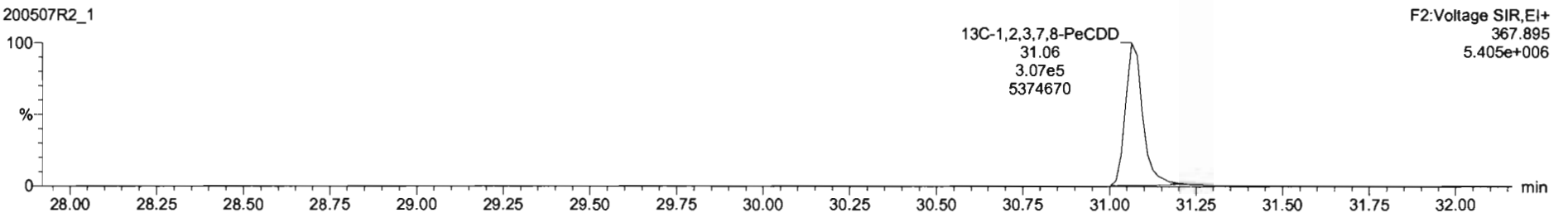
13C-1,2,3,7,8-PeCDD

200507R2_1



F2:Voltage SIR,EI+
365.8978
3.319e+006

200507R2_1



F2:Voltage SIR,EI+
367.895
5.405e+006

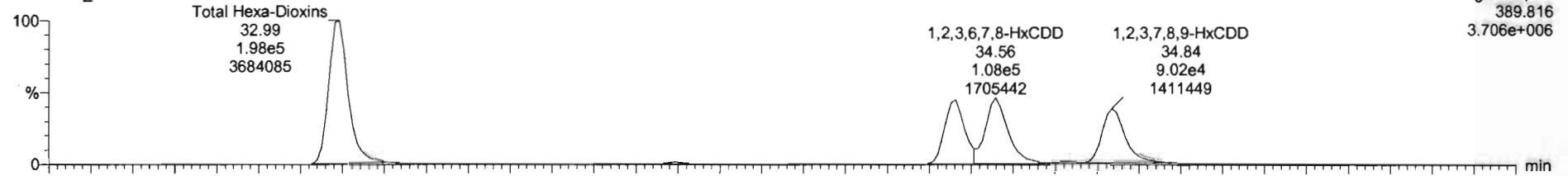
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Last Altered: Thursday, May 07, 2020 3:18:32 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

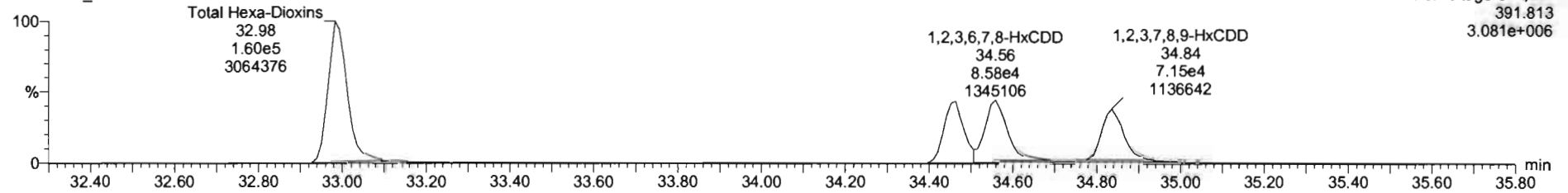
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1,2,3,4,7,8-HxCDD

200507R2_1

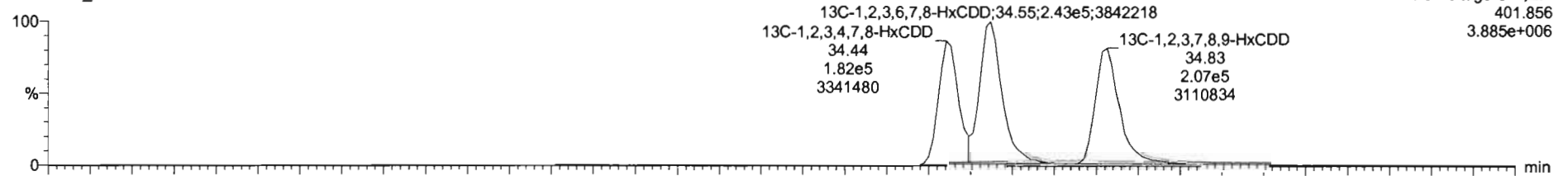


200507R2_1

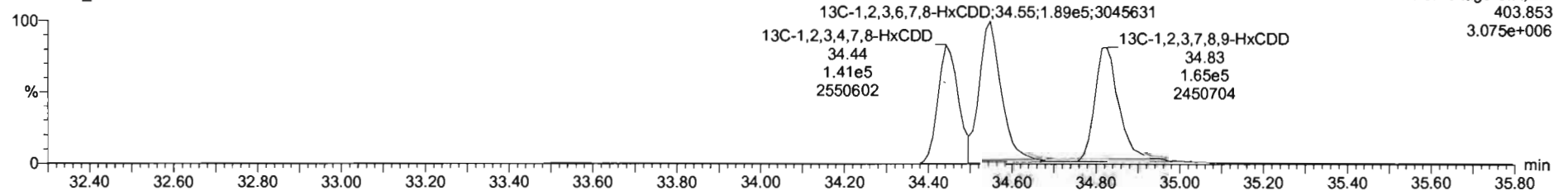


13C-1,2,3,4,7,8-HxCDD

200507R2_1



200507R2_1



Dataset: Untitled

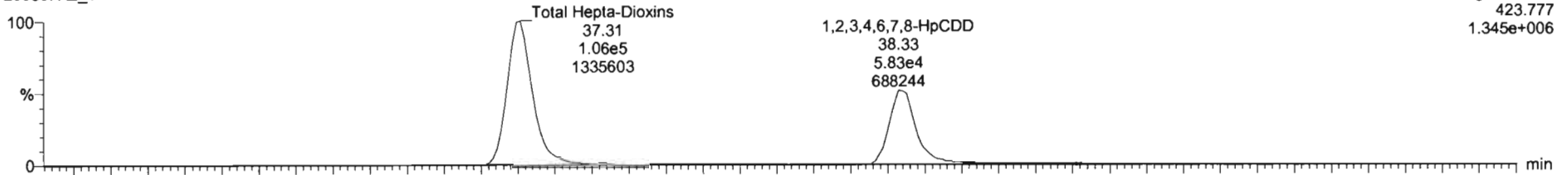
Last Altered: Thursday, May 07, 2020 3:18:32 PM Pacific Daylight Time

Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

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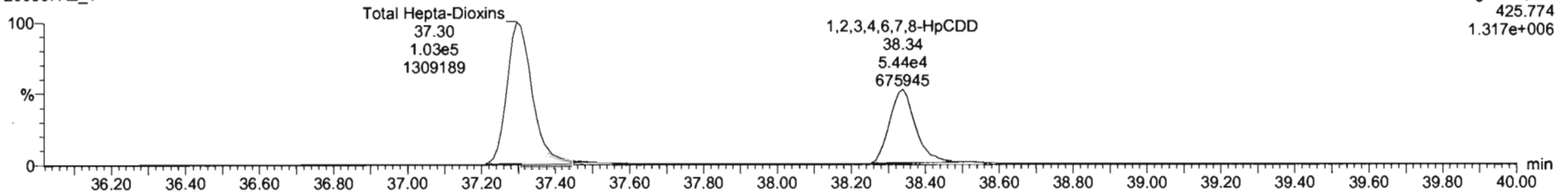
1,2,3,4,6,7,8-HpCDD

200507R2_1



F4:Voltage SIR,EI+
423.777
1.345e+006

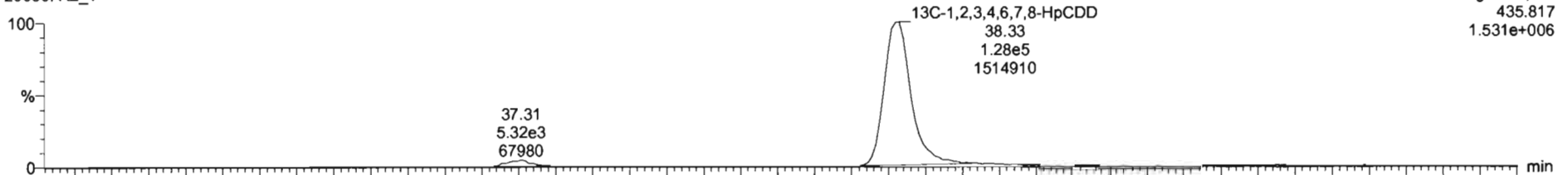
200507R2_1



F4:Voltage SIR,EI+
425.774
1.317e+006

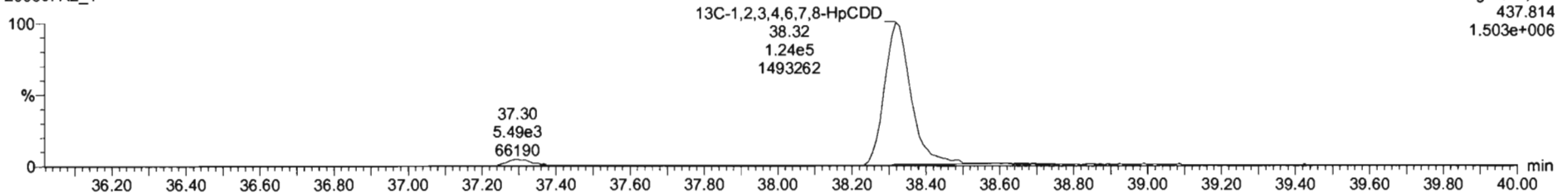
13C-1,2,3,4,6,7,8-HpCDD

200507R2_1



F4:Voltage SIR,EI+
435.817
1.531e+006

200507R2_1



F4:Voltage SIR,EI+
437.814
1.503e+006

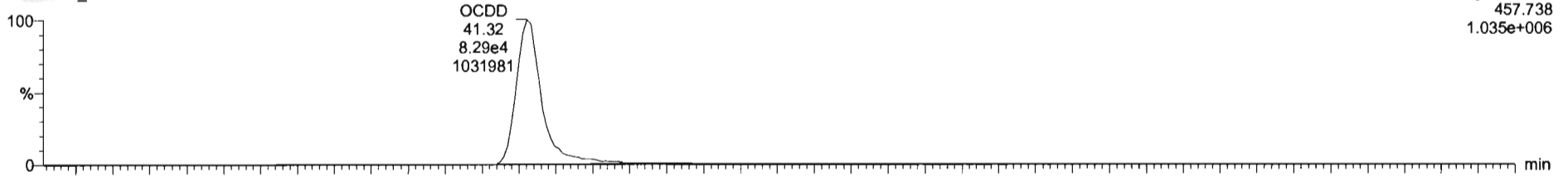
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Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

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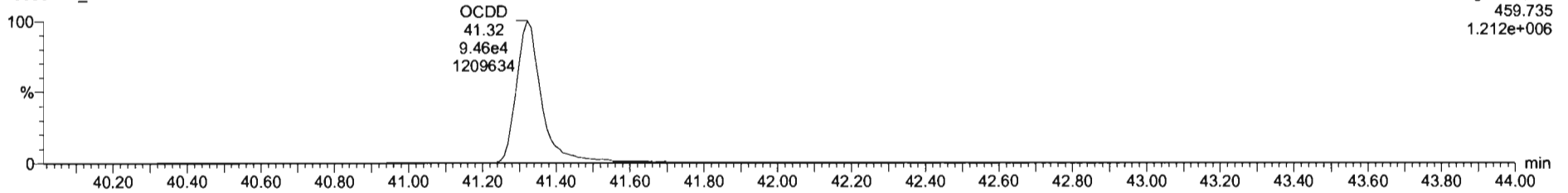
OCDD

200507R2_1



F5:Voltage SIR,EI+
457.738
1.035e+006

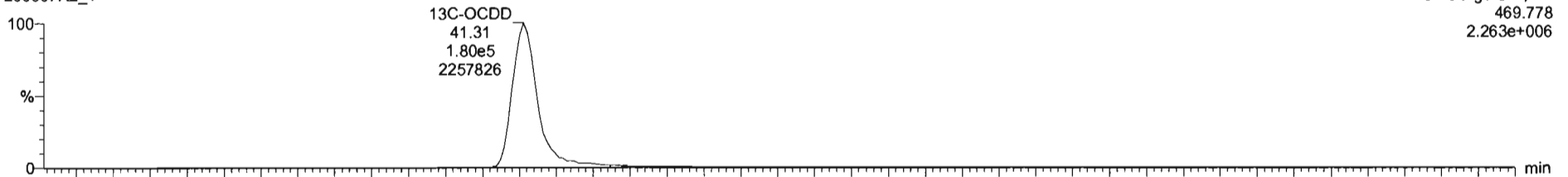
200507R2_1



F5:Voltage SIR,EI+
459.735
1.212e+006

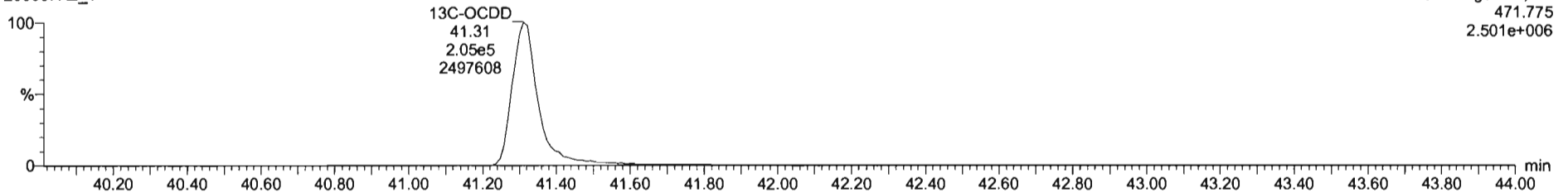
13C-OCDD

200507R2_1



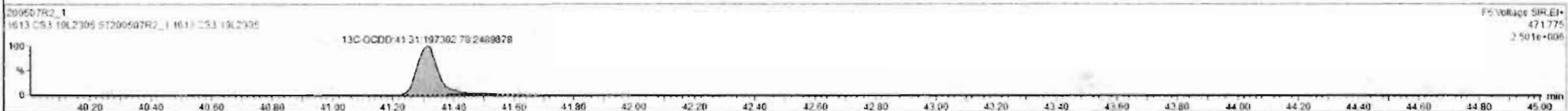
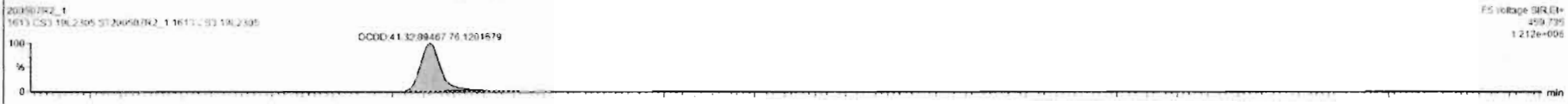
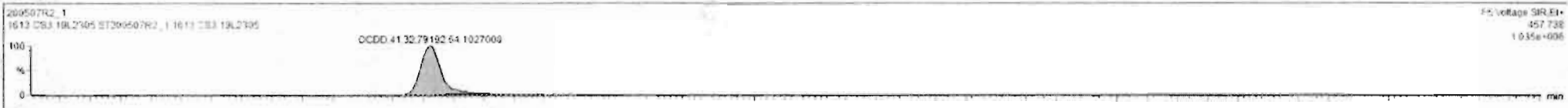
F5:Voltage SIR,EI+
469.778
2.263e+006

200507R2_1



F5:Voltage SIR,EI+
471.775
2.501e+006

Name	Resp	RA	nBy	RRF	VolVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	6.81e5	0.75	NO	0.35	1.000	25.97	1.001	9.84	98.4	0.127	3.84
2 1,2,3,7,8-PeCDD	2.11e5	0.62	NO	0.54	1.000	31.06	1.000	46.4	52.7	0.223	48.4
3 1,2,3,4,7,8-HxCDD	1.63e5	1.25	NO	1.06	1.000	34.46	1.001	47.4	54.2	0.246	47.4
4 1,2,3,6,7,8-HxCDD	1.93e5	1.26	NO	0.99	1.000	34.56	1.000	48.9	57.7	0.250	48.9
5 1,2,3,7,8,9-HxCDD	1.52e5	1.26	NO	0.91	1.000	34.84	1.000	47.5	56.2	0.306	47.5
6 1,2,3,4,6,7,8-HpCDD	1.13e5	1.07	NO	0.99	1.000	38.33	1.000	49.9	59.9	0.473	49.9
7 OCDD	1.69e5	0.89	NO	0.93	1.000	41.32	1.000	67.3	67.3	0.325	67.3
8 2,3,7,8-TCDF	7.03e4	0.75	NO	0.79	1.000	25.03	1.001	9.46	94.6	0.126	3.46
9 1,2,3,7,8-PeCDF	3.39e5	1.58	NO	0.91	1.000	29.77	1.001	47.9	55.9	0.327	47.9
10 1,2,3,4,7,8-HxCDF	0.27e5	1.57	NO	0.97	1.000	30.76	1.000	46.4	52.8	0.199	46.4
11 1,2,3,4,7,8-HxCDF	2.11e5	1.22	NO	0.88	1.000	33.60	1.000	51.7	103	0.280	51.7
12 1,2,3,6,7,8-HxCDF	2.46e5	1.25	NO	0.67	1.000	33.72	1.000	52.3	105	0.381	52.3
13 2,3,4,6,7,8-HxCDF	2.24e5	1.20	NO	0.92	1.000	34.29	1.000	51.1	102	0.328	51.1
14 1,2,3,7,8,9-HxCDF	1.52e5	1.22	NO	0.66	1.000	35.18	1.000	53.5	107	0.594	53.5
15 1,2,3,4,6,7,8-HpCDF	1.58e5	0.98	NO	0.67	1.000	36.91	1.000	53.3	107	0.435	53.3
16 1,2,3,4,7,8,9-HpCDF	5.03e4	0.99	NO	1.01	1.000	38.93	1.000	53.0	100	0.725	53.0
17 OCDF	1.47e5	0.96	NO	0.80	1.000	41.58	1.000	102	102	0.384	102
18 13C-2,3,7,8-TCDD	7.99e5	0.77	NO	1.16	1.000	25.94	1.027	100	100	0.224	
19 13C-1,2,3,7,8-PeCDD	4.98e5	0.62	NO	0.85	1.000	31.06	1.225	96.4	96.4	0.264	
20 13C-1,2,3,4,7,8-HxCDD	3.25e5	1.29	NO	0.75	1.000	34.44	1.014	97.0	97.0	0.544	
21 13C-1,2,3,6,7,8-HxCDD	4.33e5	1.28	NO	0.96	1.000	34.55	1.017	101	101	0.424	

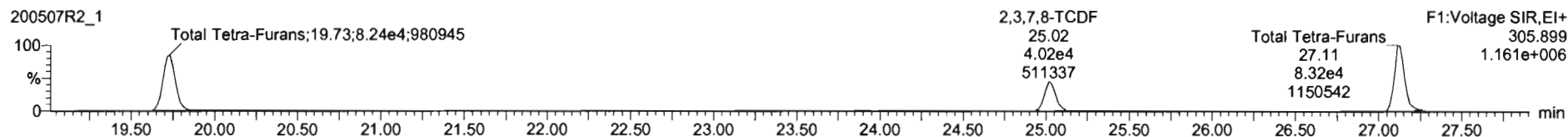


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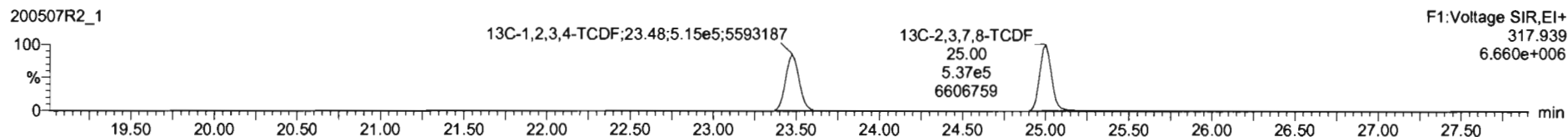
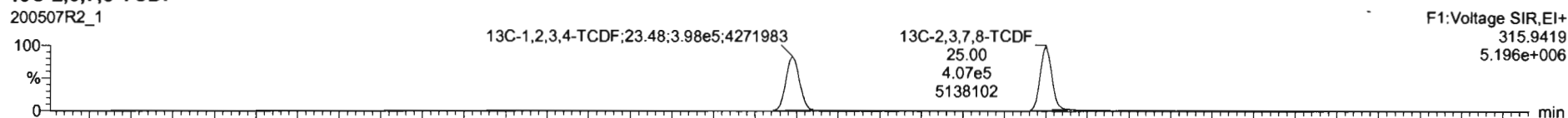
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Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

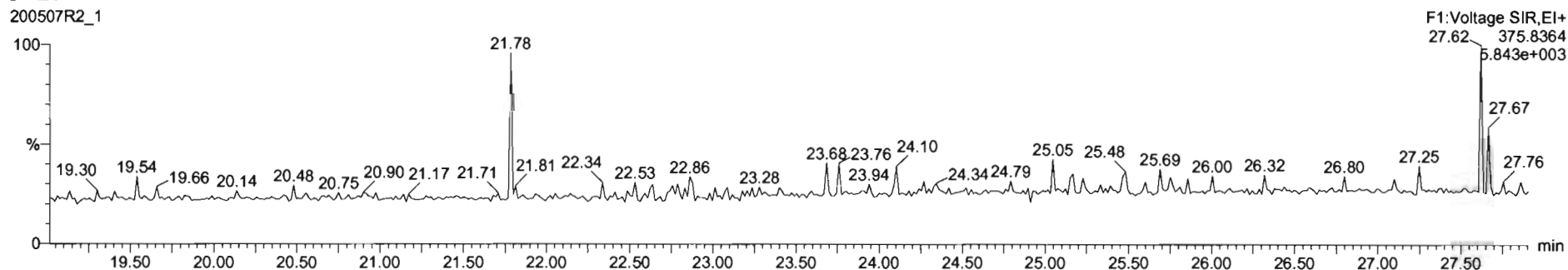
2,3,7,8-TCDF



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



DPE1



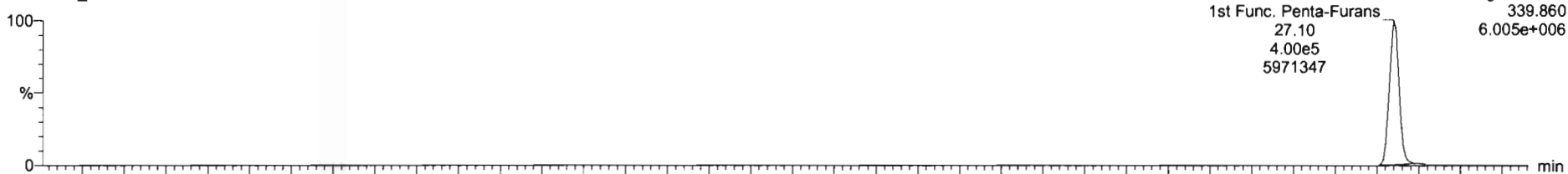
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Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

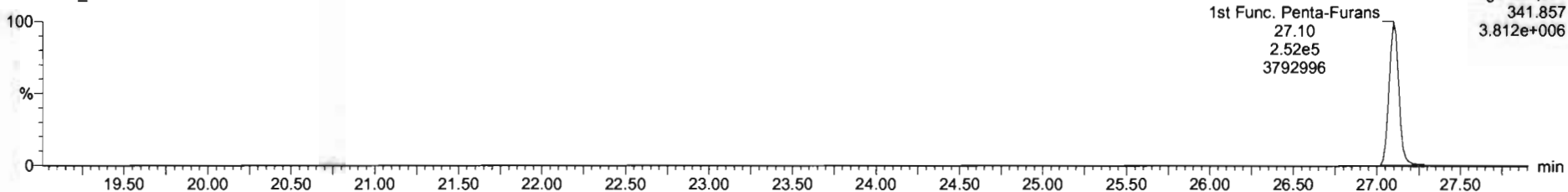
Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200507R2_1

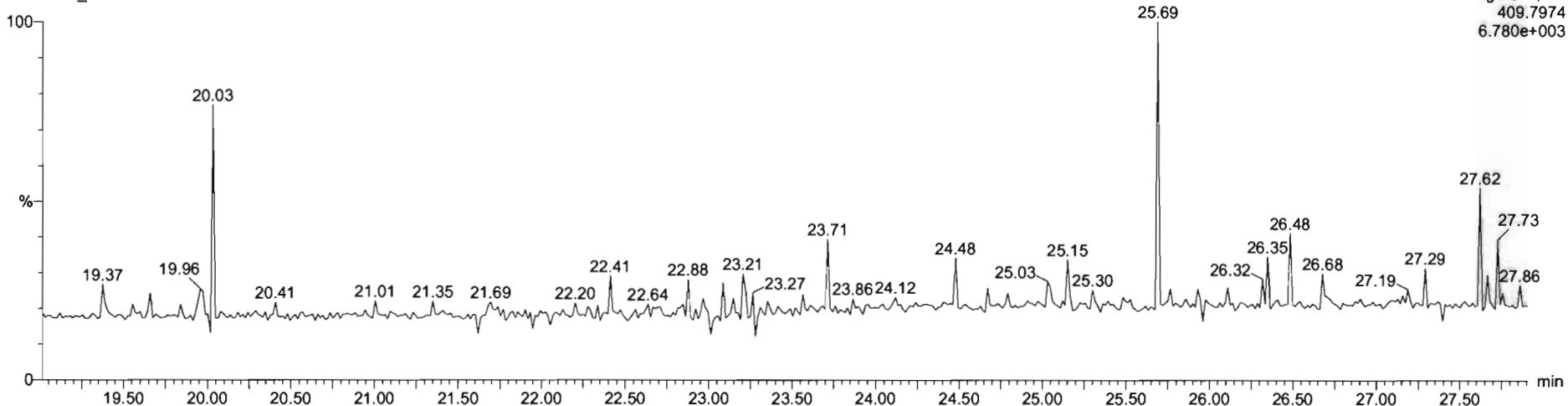


200507R2_1



DPE6

200507R2_1



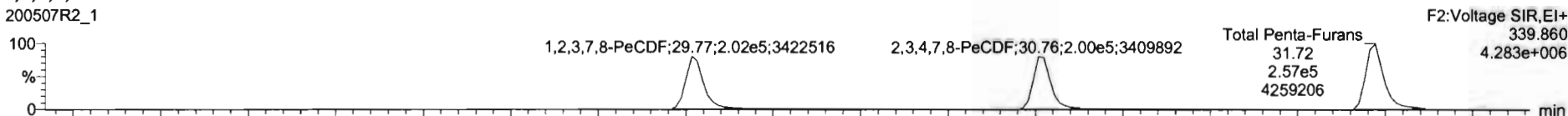
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Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

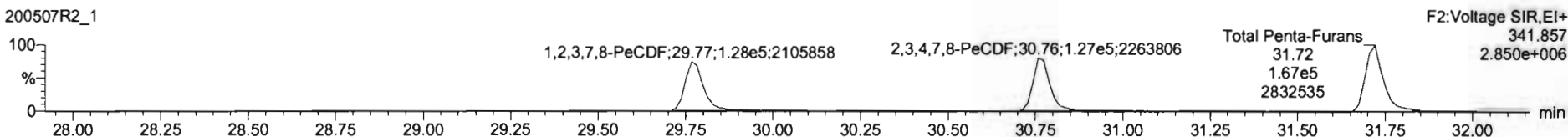
Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDF

200507R2_1

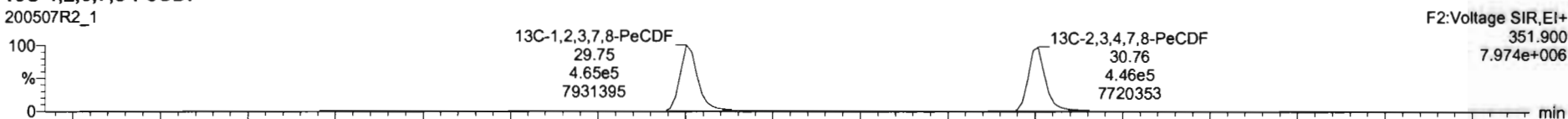


200507R2_1

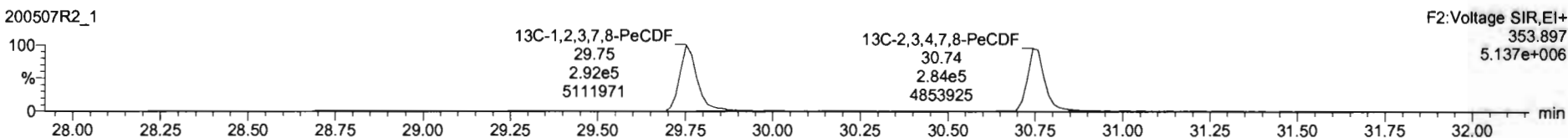


13C-1,2,3,7,8-PeCDF

200507R2_1

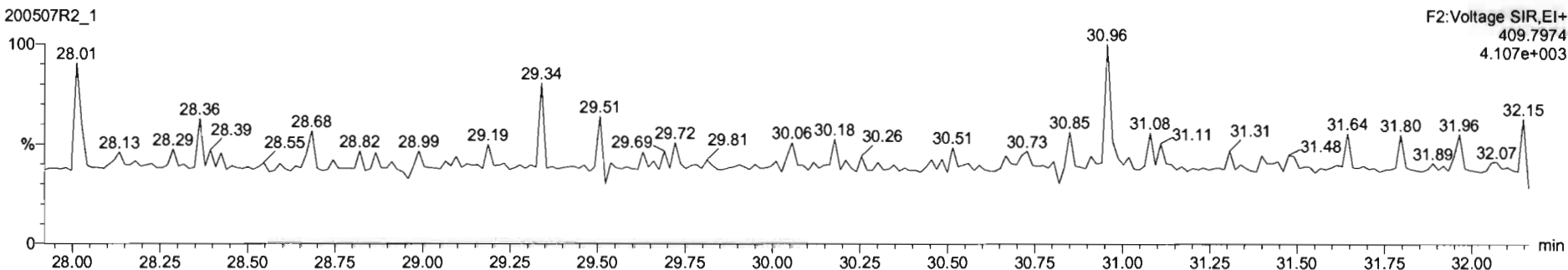


200507R2_1



DPE2

200507R2_1

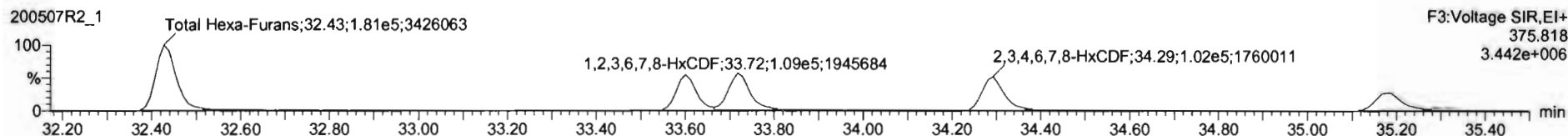
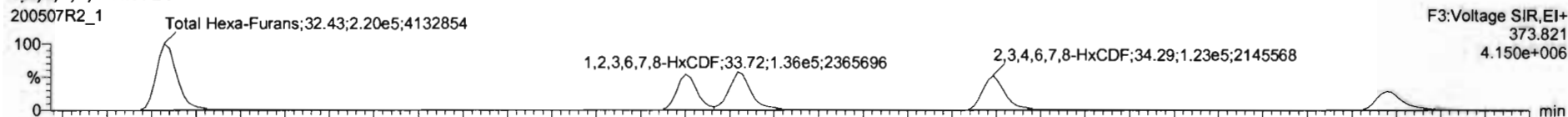


Dataset: Untitled

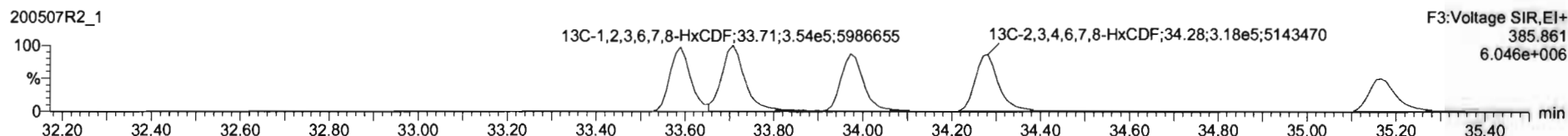
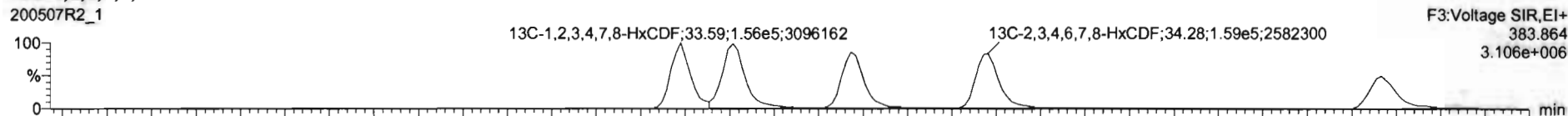
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Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

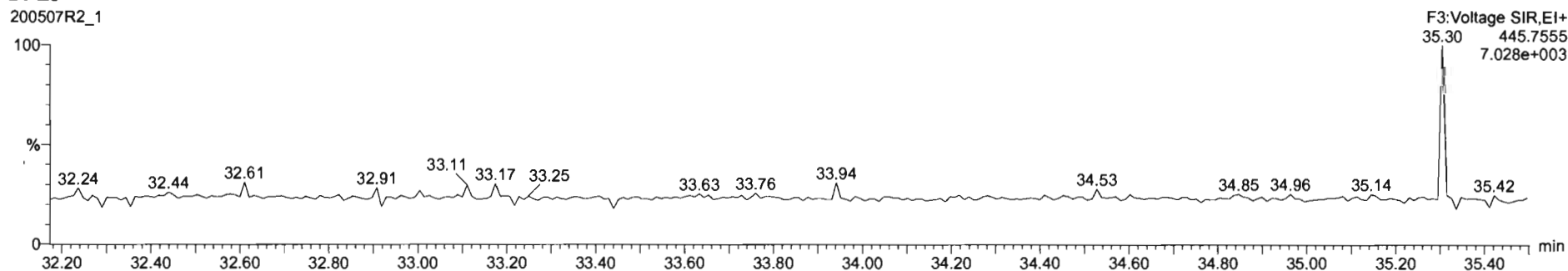
1,2,3,4,7,8-HxCDF



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



DPE3



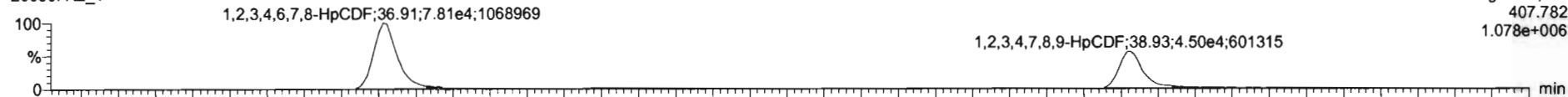
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Last Altered: Thursday, May 07, 2020 3:18:32 PM Pacific Daylight Time
Printed: Thursday, May 07, 2020 3:19:52 PM Pacific Daylight Time

Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

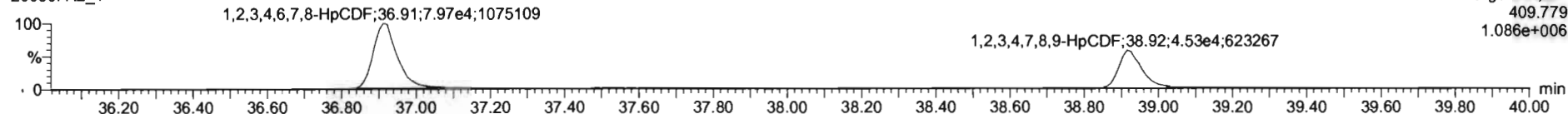
1,2,3,4,6,7,8-HpCDF

200507R2_1



F4:Voltage SIR,EI+
407.782
1.078e+006

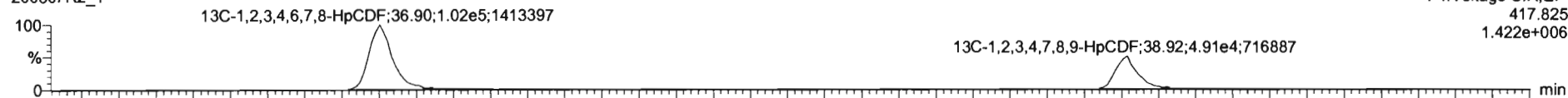
200507R2_1



F4:Voltage SIR,EI+
409.779
1.086e+006

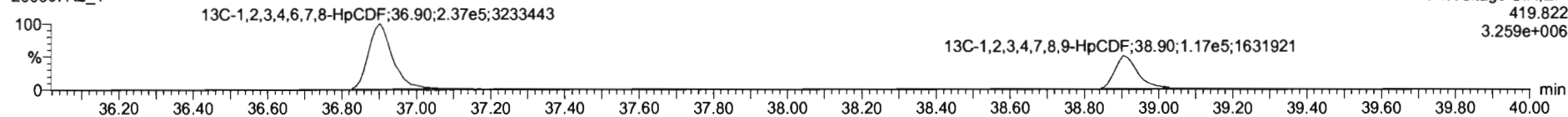
13C-1,2,3,4,6,7,8-HpCDF

200507R2_1



F4:Voltage SIR,EI+
417.825
1.422e+006

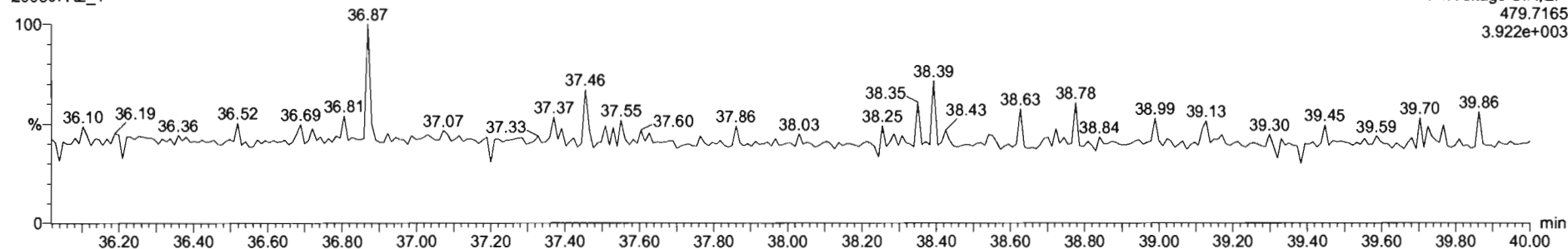
200507R2_1



F4:Voltage SIR,EI+
419.822
3.259e+006

DPE4

200507R2_1



F4:Voltage SIR,EI+
479.7165
3.922e+003

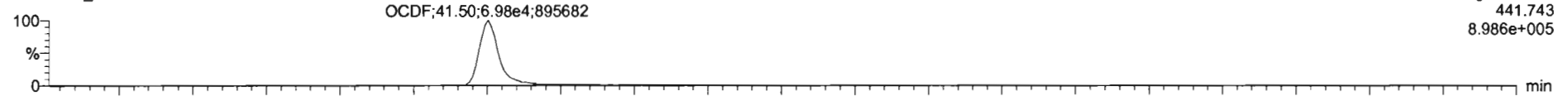
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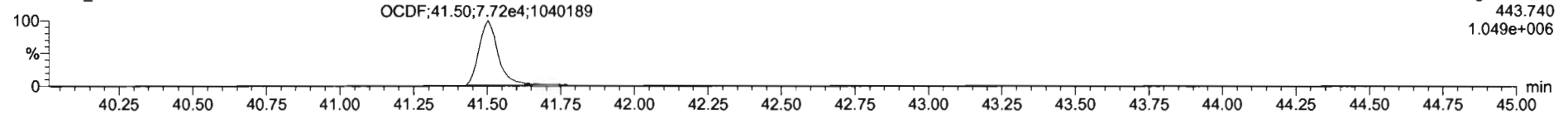
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OCDF

200507R2_1

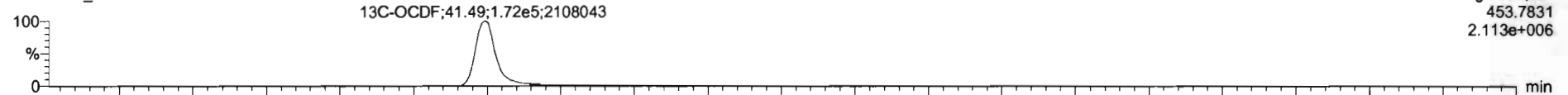


200507R2_1

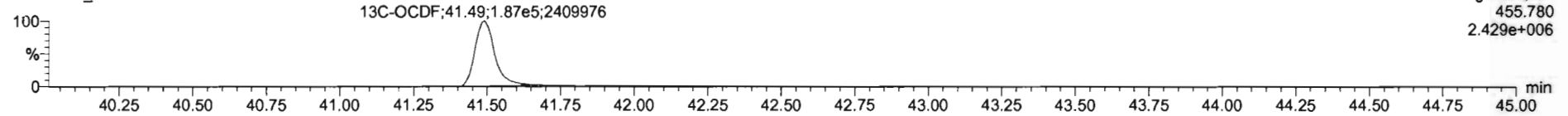


13C-OCDF

200507R2_1

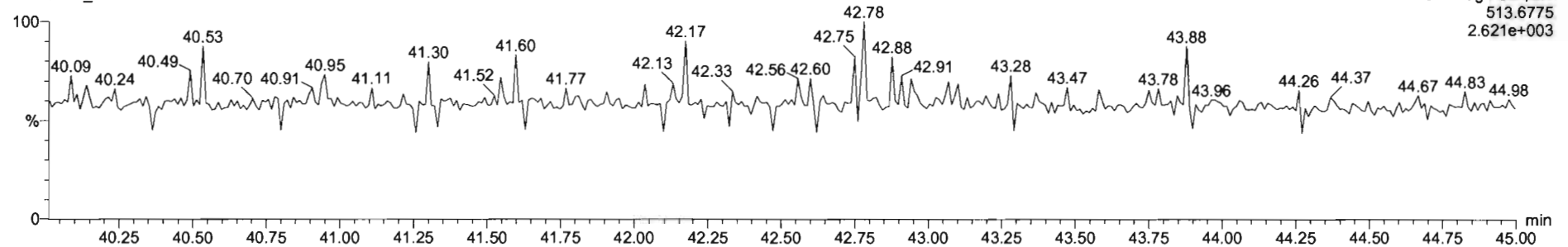


200507R2_1



DPE5

200507R2_1



#	Name	Resp	RA	aly	RRF	VolVol	RT	RRT	Clac.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	6.61e4	0.75	NO	0.95	1.900	25.97	1.001	9.84	98.4	0.197	9.84
2	1,2,3,7,8-PeCDD	2.17e5	0.82	NO	0.94	1.900	31.66	1.000	46.4	92.7	0.223	46.4
3	1,2,3,4,7,8-HxCDD	1.63e5	1.25	NO	1.06	1.900	34.46	1.001	47.4	94.8	0.246	47.4
4	1,2,3,6,7,8-HxCDD	1.95e5	1.26	NO	0.91	1.900	34.96	1.000	48.9	97.7	0.250	48.9
5	1,2,3,7,8,9-HxCDD	1.52e5	1.26	NO	0.91	1.900	34.94	1.000	47.5	95.9	0.260	47.5
6	1,2,3,4,6,7,8-HpCDD	1.13e5	1.07	NO	0.90	1.900	38.33	1.000	49.9	99.9	0.473	49.9
7	OCDD	1.69e5	0.89	NO	0.93	1.900	41.32	1.000	97.3	97.3	0.325	97.3
8	2,3,7,8-TCDF	7.03e4	0.75	NO	0.79	1.900	25.03	1.001	9.46	94.6	0.109	9.46
9	1,2,3,7,8-PeCDF	3.79e5	1.58	NO	0.91	1.900	29.77	1.001	47.9	95.9	0.207	47.9
10	1,2,3,4,7,8-HxCDF	3.27e5	1.57	NO	0.97	1.900	30.76	1.000	46.4	92.8	0.195	46.4
11	1,2,3,4,7,8-HxCDF	2.11e5	1.22	NO	0.88	1.900	33.60	1.000	51.7	103	0.290	51.7
12	1,2,3,6,7,8-HxCDF	2.46e5	1.25	NO	0.97	1.900	33.72	1.000	52.3	105	0.301	52.3
13	2,3,4,6,7,8-HxCDF	2.24e5	1.26	NO	0.92	1.900	34.29	1.000	51.1	102	0.328	51.1
14	1,2,3,7,8,9-HxCDF	1.52e5	1.22	NO	0.86	1.900	35.18	1.000	53.9	107	0.354	53.9
15	1,2,3,4,6,7,8-HpCDF	1.56e5	0.98	NO	0.97	1.900	36.91	1.000	53.3	107	0.436	53.3
16	1,2,3,4,7,8,9-HpCDF	9.03e4	0.99	NO	1.01	1.900	38.93	1.000	53.8	108	0.725	53.8
17	OCDF	1.44e5	0.87	NO	0.80	1.900	41.50	1.000	103	103	0.278	103
18	1,2,3,7,8-TCDF	7.09e4	0.77	NO	1.16	1.900	25.94	1.027	100	100	0.224	
19	1,2,3,7,8-PeCDD	4.89e5	0.82	NO	0.85	1.900	31.06	1.295	96.4	96.4	0.204	
20	1,2,3,4,7,8-HxCDD	3.23e5	1.29	NO	0.75	1.900	34.44	1.914	97.0	97.0	0.544	
21	1,2,3,6,7,8-HxCDD	4.33e5	1.26	NO	0.96	1.900	34.55	1.017	101	101	0.424	



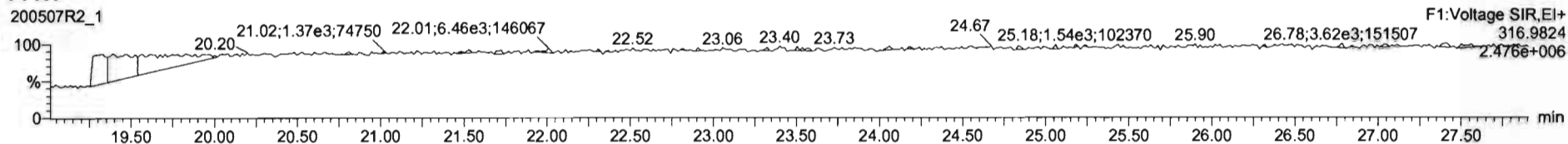
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Last Altered: Thursday, May 07, 2020 3:18:32 PM Pacific Daylight Time

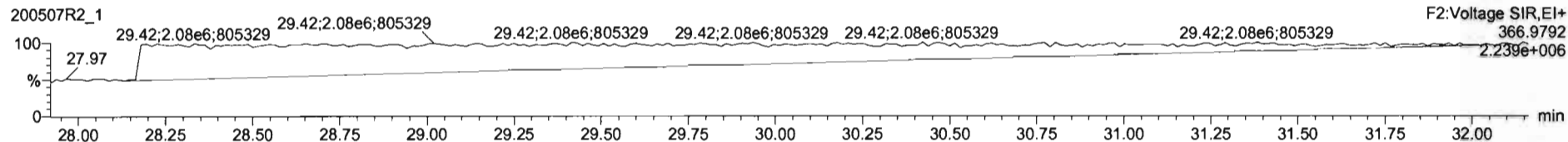
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Name: 200507R2_1, Date: 07-May-2020, Time: 14:32:16, ID: ST200507R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

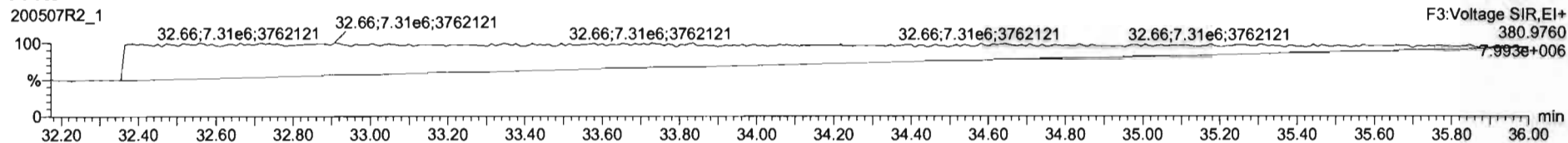
PFK1



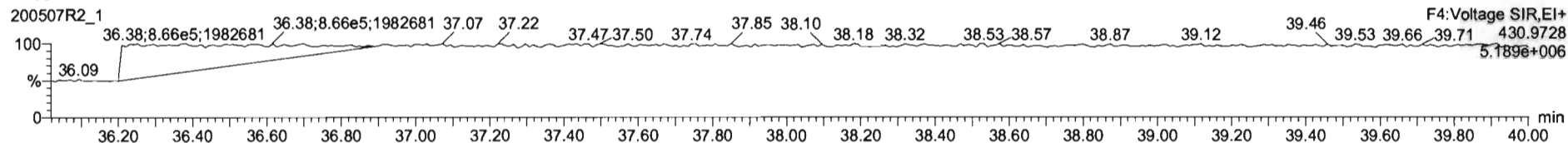
PFK2



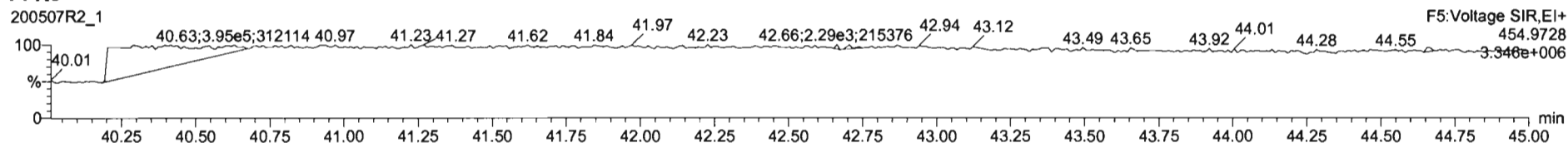
PFK3



PFK4



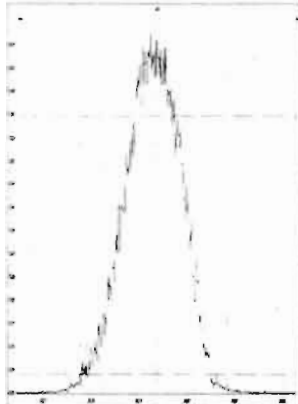
PFK5



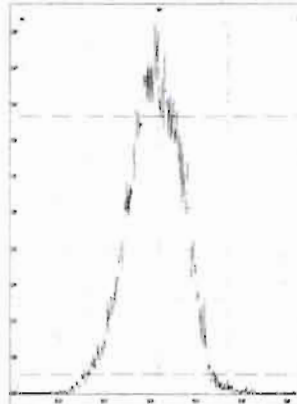
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, May 08, 2020 07:13:54 Pacific Daylight Time

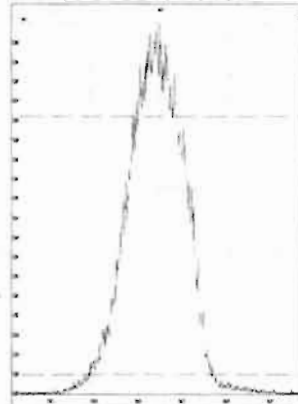
M 292.9824 R 11414



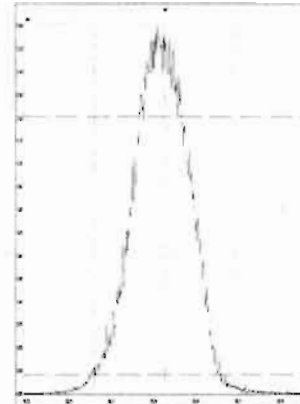
M 304.9824 R 11213



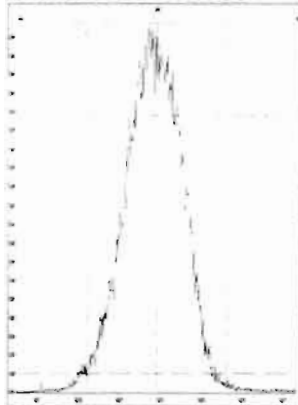
M 318.9792 R 11568



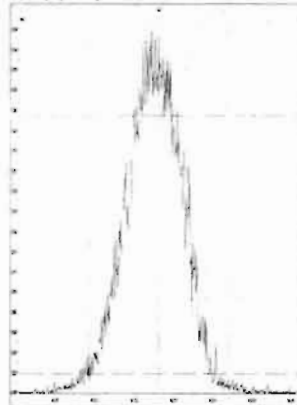
M 330.9792 R 10778



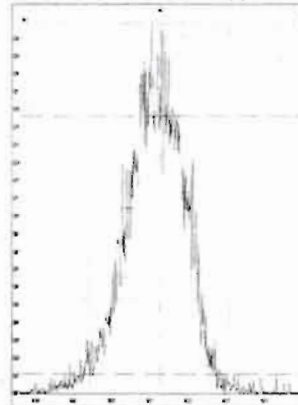
M 342.9792 R 10684



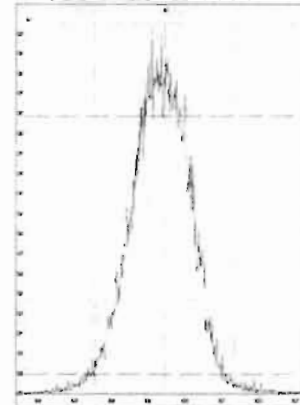
M 354.9792 R 11577



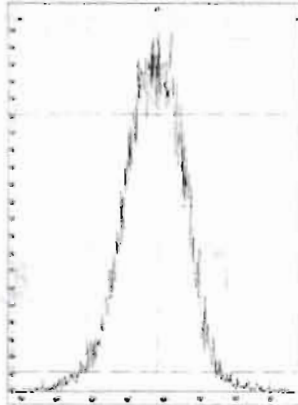
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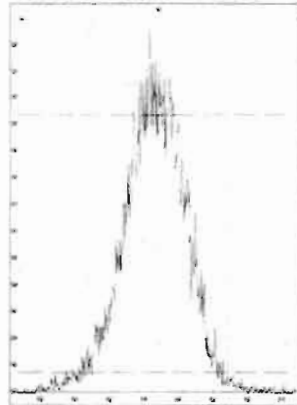
M 380.9760 R 11017



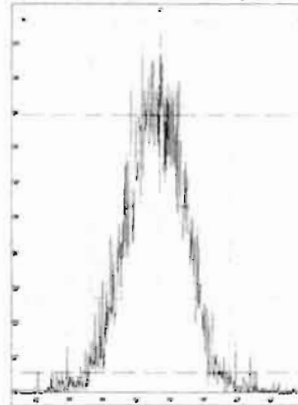
M 392.9760 R 10289



M 404.9760 R 11210



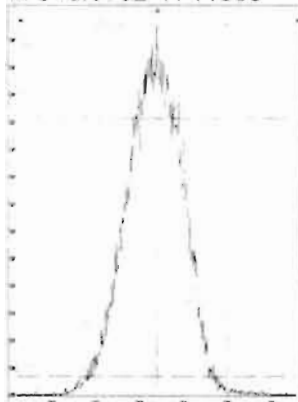
M 416.9760 R 12498



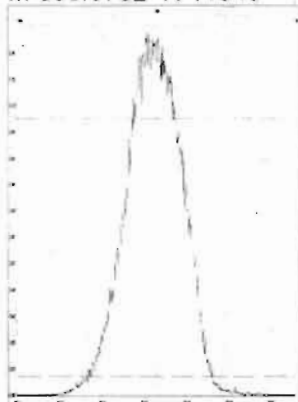
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Printed: Friday, May 08, 2020 07:14:41 Pacific Daylight Time

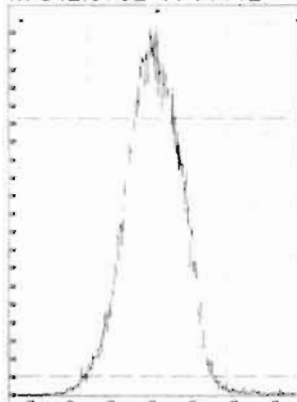
M 318.9792 R 11683



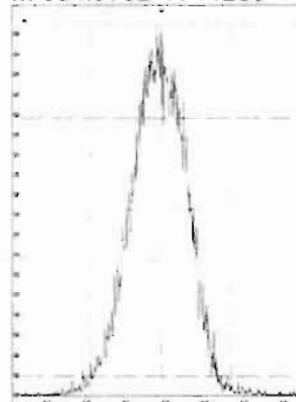
M 330.9792 R 11519



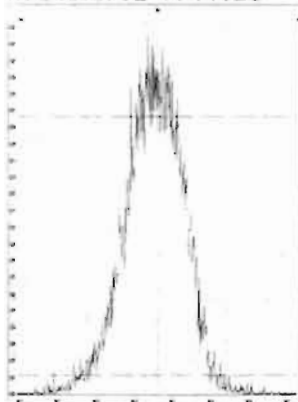
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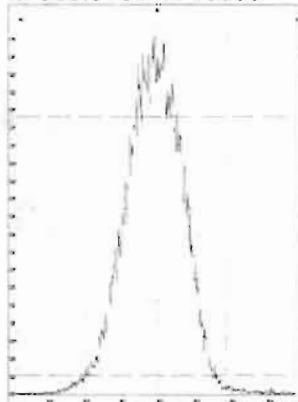
M 354.9792 R 11265



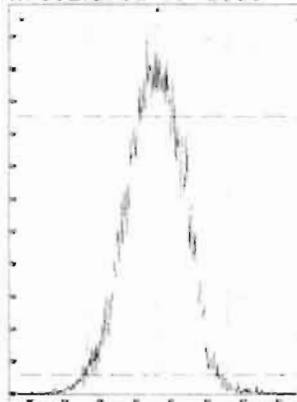
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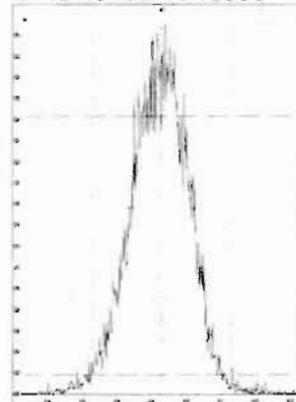
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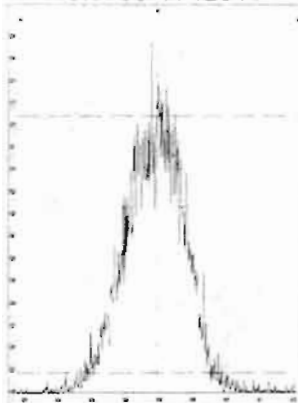
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M 404.9760 R 10593



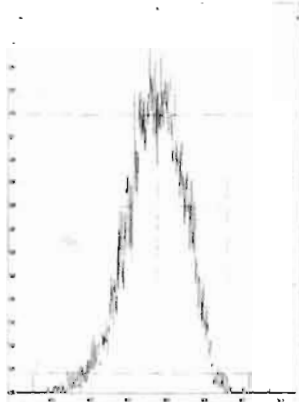
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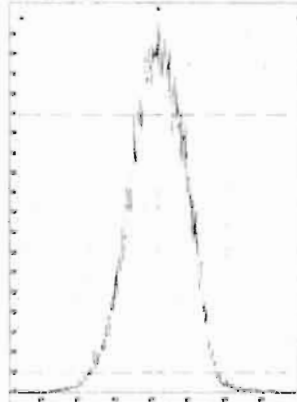
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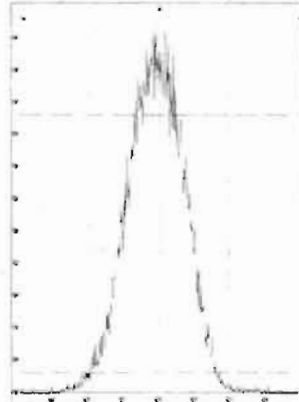
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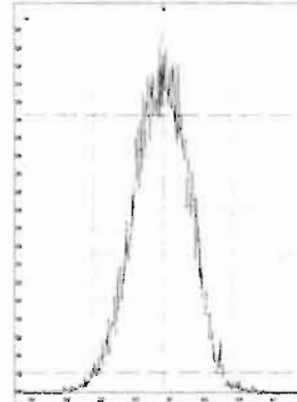
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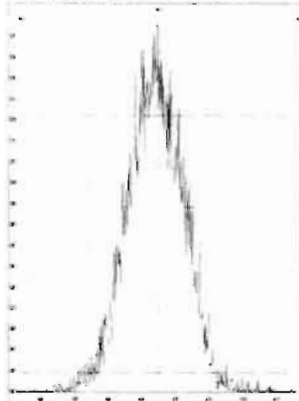
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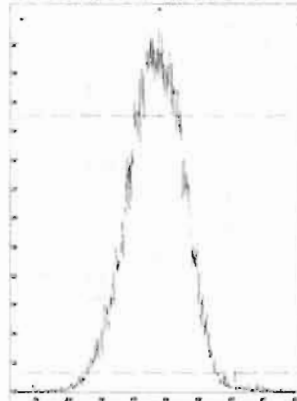
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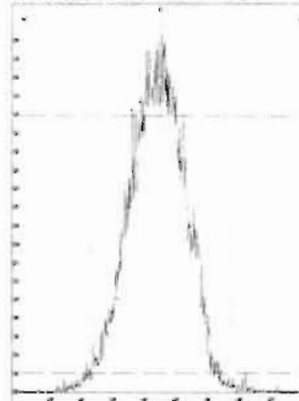
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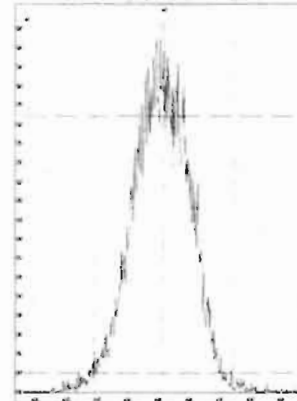
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M 442.9728 R 11468



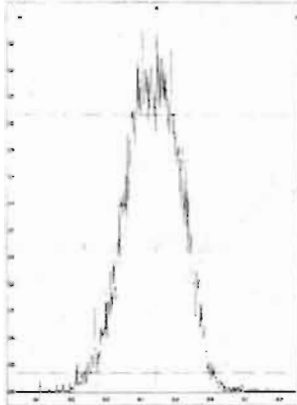
M 454.9728 R 10967



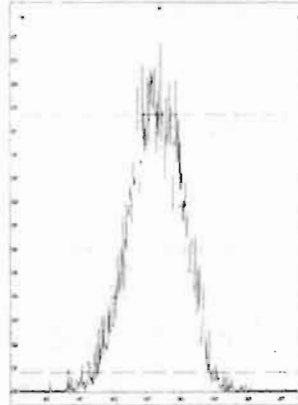
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, May 08, 2020 07:15:30 Pacific Daylight Time

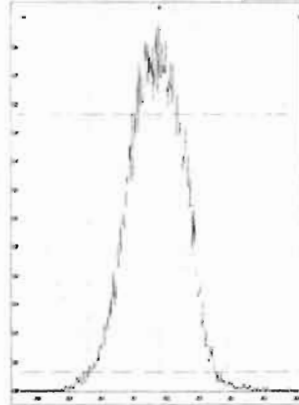
M 404.9760 R 11413



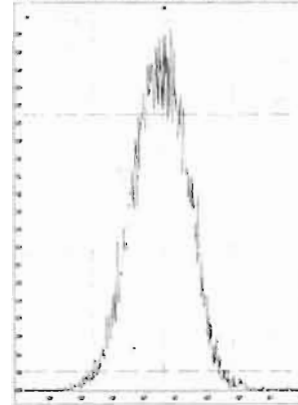
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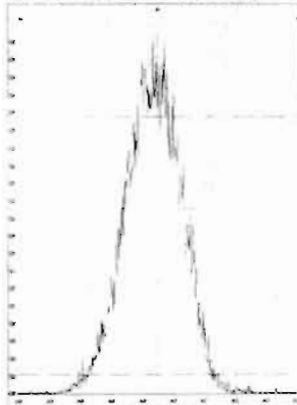
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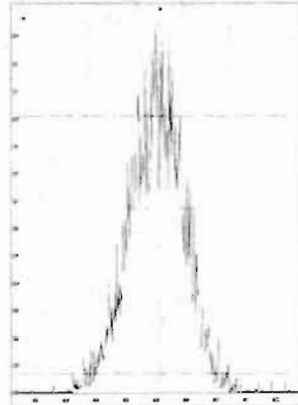
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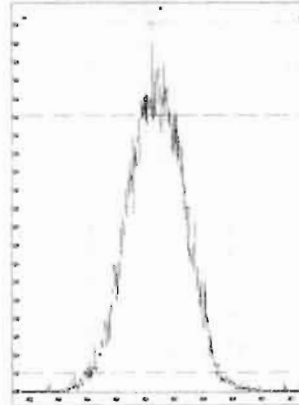
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M 466.9728 R 11794



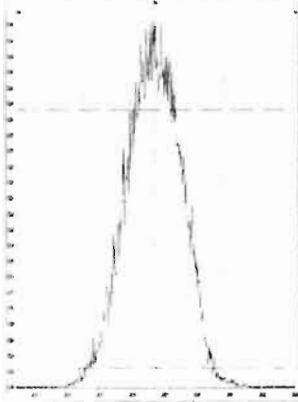
M 480.9696 R 10869



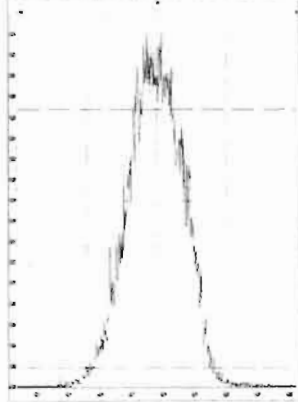
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Printed: Friday, May 08, 2020 07:15:55 Pacific Daylight Time

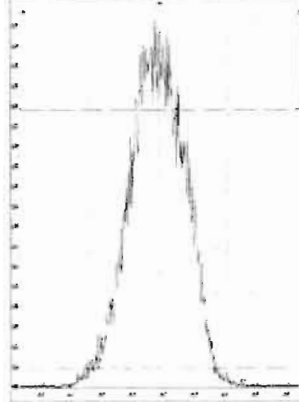
M 430.9728 R 11628



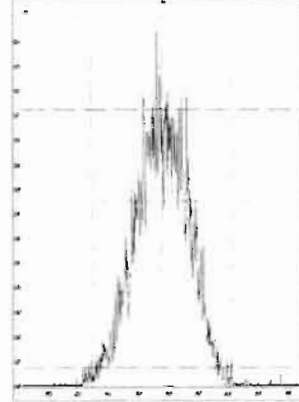
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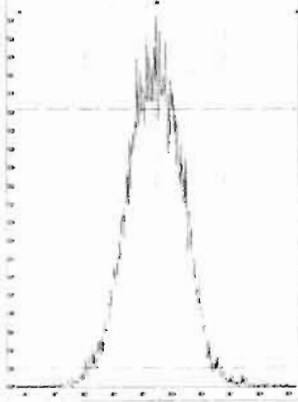
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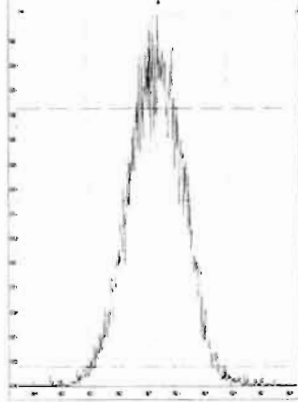
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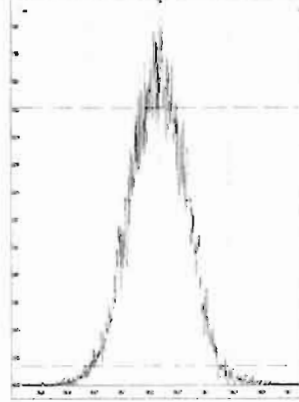
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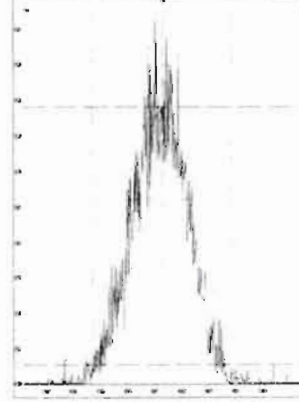
M 492.9696 R 11013



M 504.9696 R 11362



M 516.9697 R 12316



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20051211-1

Reviewed By: CT 05/13/2020

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> NA	<input type="checkbox"/>
Retention Times within criteria?	<input 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?	<input type="checkbox"/> JB	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N
- Samples within 12 hour clock?	<input type="checkbox"/> (V)	N
- Bottle position verified?	<input type="checkbox"/> JB	<input type="checkbox"/>

Mass resolution \geq

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

A) PFIC Armin

Dataset: U:\VG7.PRO\Results\200512D1\200512D1_2.qld

Last Altered: Tuesday, May 12, 2020 11:47:45 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 11:49:09 Pacific Daylight Time

DB 5/12/20

CT 05/13/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200512D1_2, Date: 12-May-2020, Time: 11:23:51, ID: ST200512D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.46e4	0.81	NO	0.982	1.000	17.678	17.68	1.000	1.001	8.6463	86.586-116	0.146	8.65
2	2 13C-2,3,7,8-TCDF	1.72e5	0.77	NO	1.08	1.000	17.712	17.66	1.133	1.135	97.128	97.176-131	0.479	
3	3 13C-1,2,3,4-TCDF	1.63e5	0.81	NO	1.00	1.000	15.660	15.55	1.000	1.000	100.00	100	0.519	

Dataset: Untitled

Last Altered: Wednesday, May 13, 2020 09:42:29 Pacific Daylight Time
Printed: Wednesday, May 13, 2020 09:42:44 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

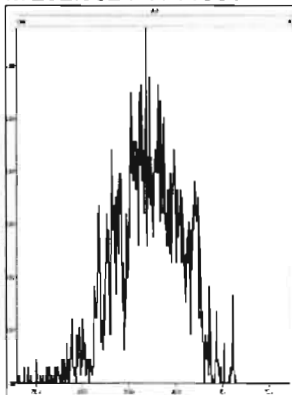
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200512D1_1	CP200512D1-1 DB-225 CPSM	12-May-20	10:53:43
2	200512D1_2	ST200512D1-1 1613 CS3 19L2305	12-May-20	11:23:51
3	200512D1_3	SOLVENT BLANK	12-May-20	11:55:37
4	200512D1_4	2000952-05RE1 PDI-160SC-A-00-01-200423 ...	12-May-20	12:27:31
5	200512D1_5	2000951-01RE1 PDI-1159SC-A-01-02-200423...	12-May-20	12:59:11
6	200512D1_6	2000951-02RE1 PDI-159SC-A-00-01-200423 ...	12-May-20	13:30:54
7	200512D1_7	2000953-01RE1 PDI-165SC-A-00-01-200426 ...	12-May-20	14:02:36
8	200512D1_8	2000948-09RE1 PDI-1161SC-A-02-03-200424...	12-May-20	14:34:18
9	200512D1_9	2000948-10RE1 PDI-161SC-A-00-01-200424 ...	12-May-20	15:06:01
10	200512D1_10	2000948-11RE1 PDI-161SC-A-01-02-200424 ...	12-May-20	15:37:43
11	200512D1_11	2000948-12RE1 PDI-161SC-A-02-03-200424 ...	12-May-20	16:09:25
12	200512D1_12	2000948-13RE1 PDI-161SC-A-03-04-200424 ...	12-May-20	16:41:07
13	200512D1_13	2000842-02RE1 Secondary Effluent 0.87267	12-May-20	17:12:50
14	200512D1_14	B0D0323-DUP1RE1 Duplicate	12-May-20	17:44:32
15	200512D1_15	B0D0332-DUP1RE1 Duplicate	12-May-20	18:16:14

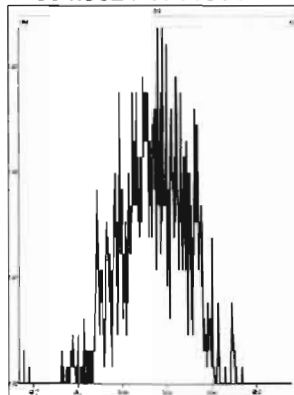
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 12, 2020 10:52:53 Pacific Daylight Time

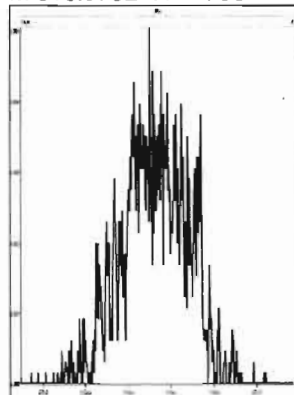
M 292.9824 R 11901



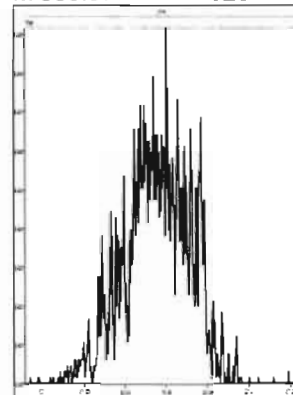
M 304.9824 R 11014



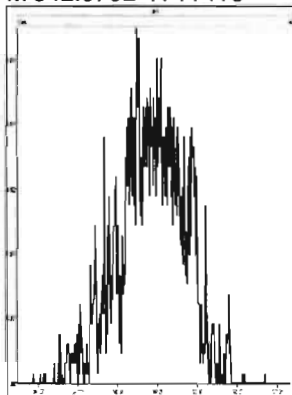
M 318.9792 R 11736



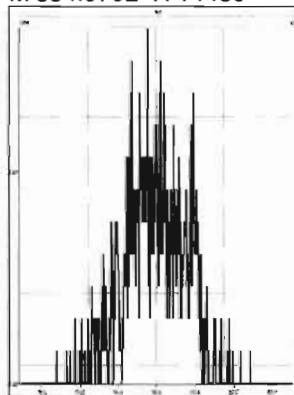
M 330.9792 R 11523



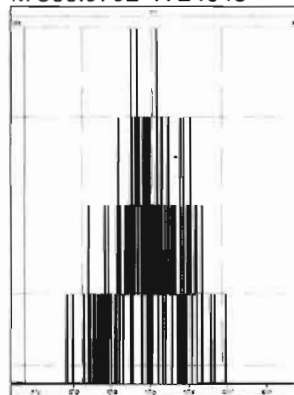
M 342.9792 R 11416



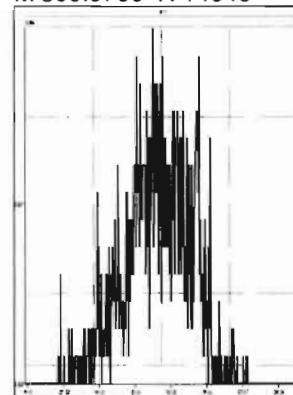
M 354.9792 R 14450

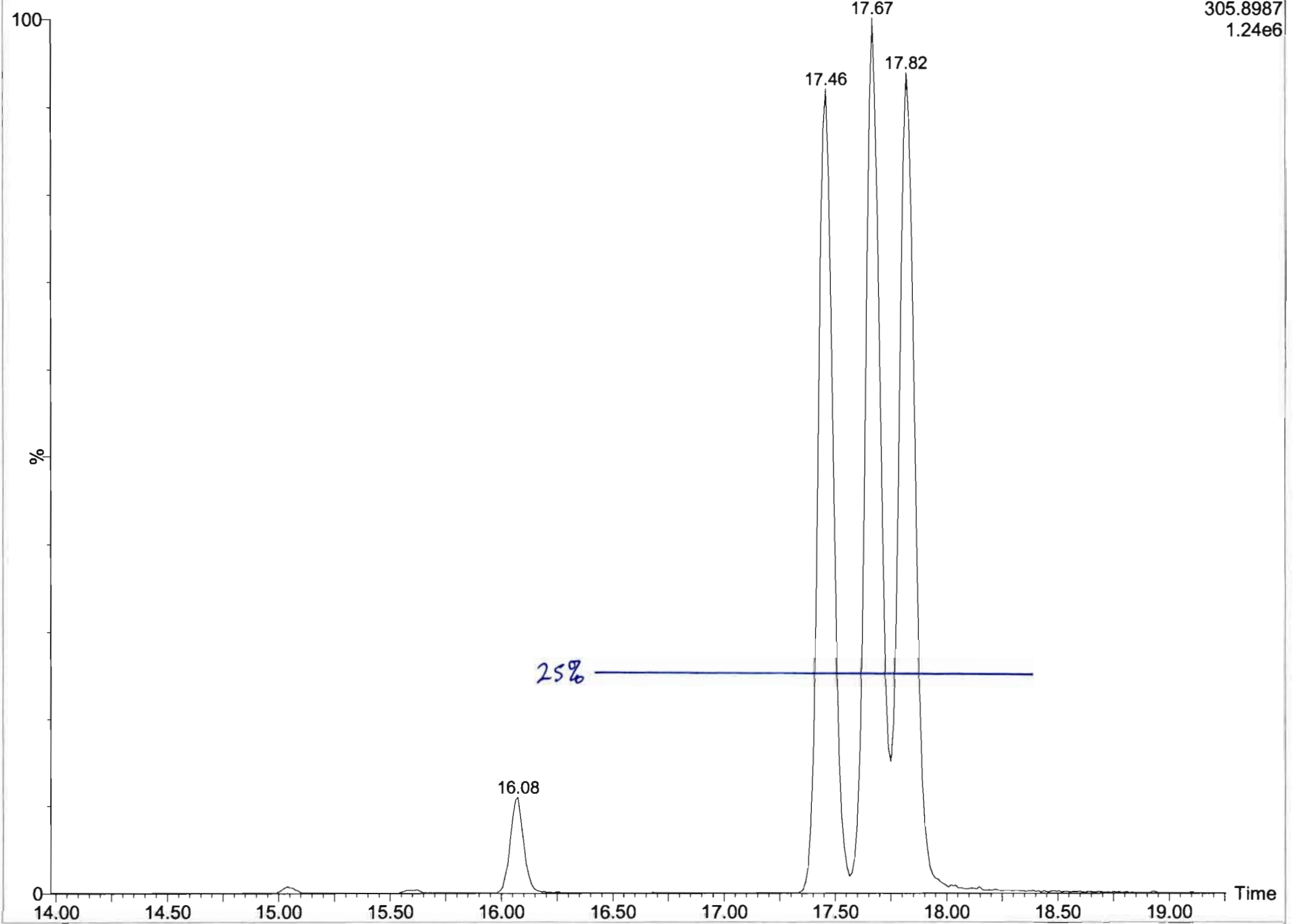


M 366.9792 R 24043



M 380.9760 R 14046





Dataset: U:\VG7.PRO\Results\200512D1\200512D1_1.qld

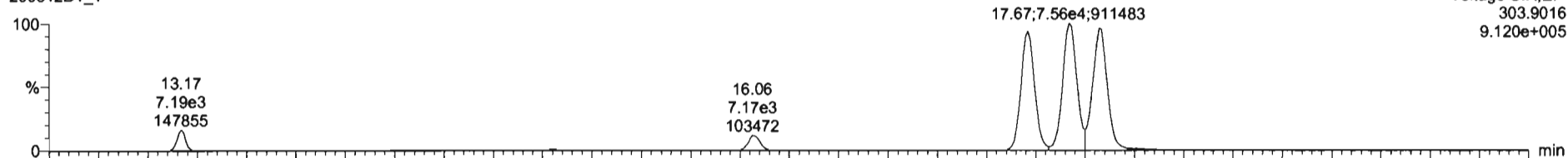
Last Altered: Tuesday, May 12, 2020 11:45:20 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 11:46:29 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

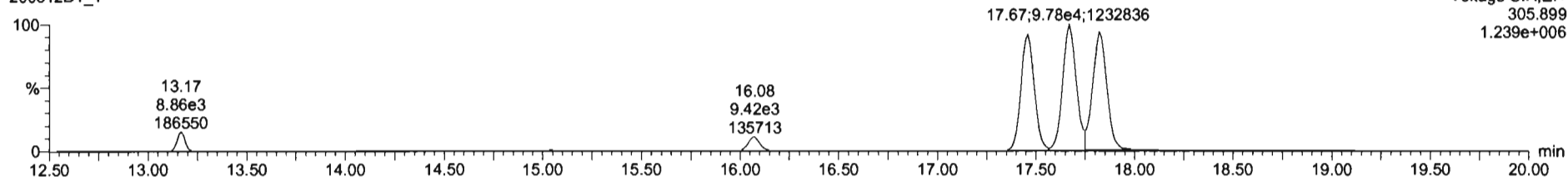
Name: 200512D1_1, Date: 12-May-2020, Time: 10:53:43, ID: CP200512D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF

200512D1_1

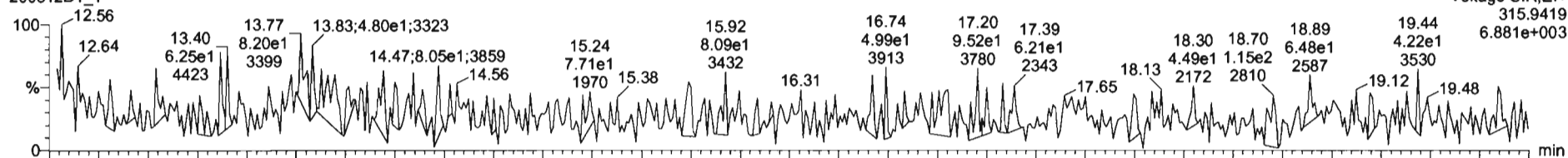


200512D1_1

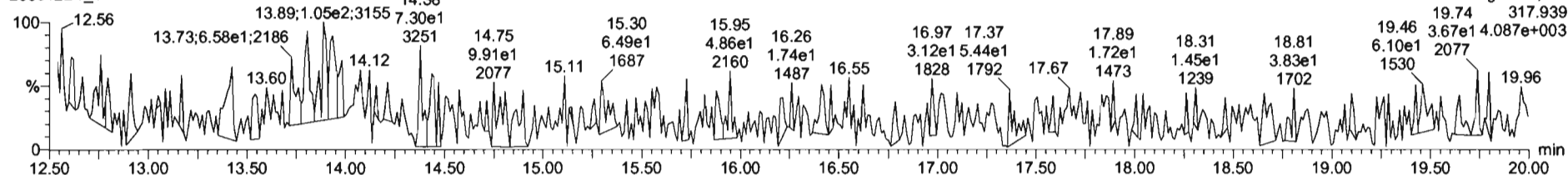


13C-2,3,7,8-TCDF

200512D1_1



200512D1_1

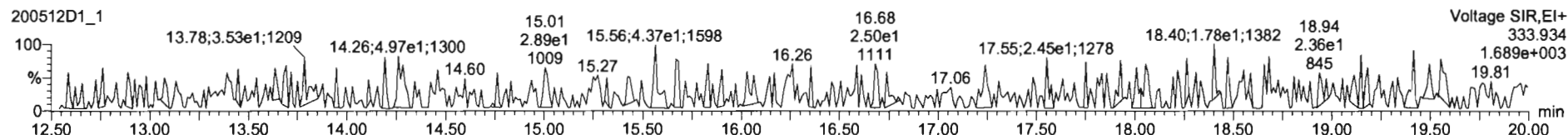
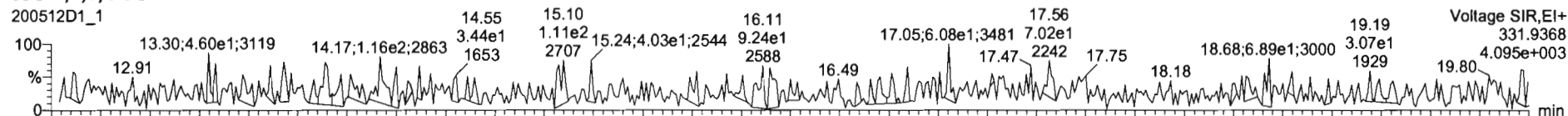


Dataset: U:\VG7.PRO\Results\200512D1\200512D1_1.qld

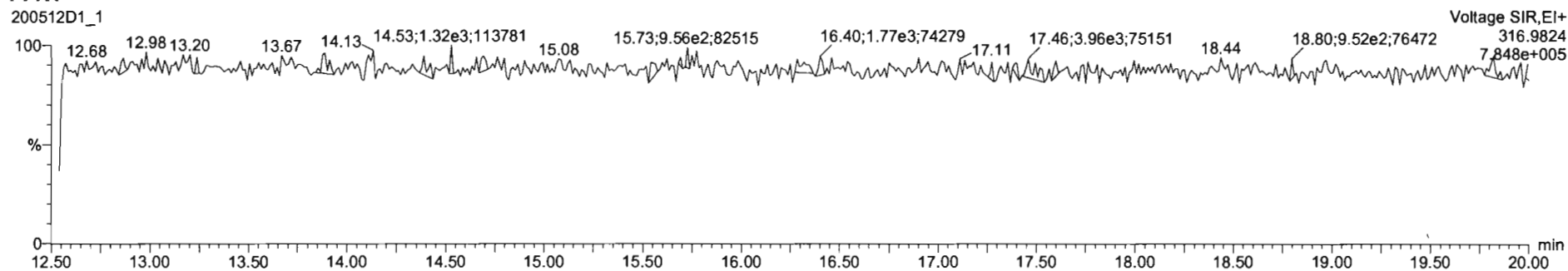
Last Altered: Tuesday, May 12, 2020 11:45:20 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 11:46:29 Pacific Daylight Time

Name: 200512D1_1, Date: 12-May-2020, Time: 10:53:43, ID: CP200512D1-1 DB-225 CPSM, Description: DB-225 CPSM

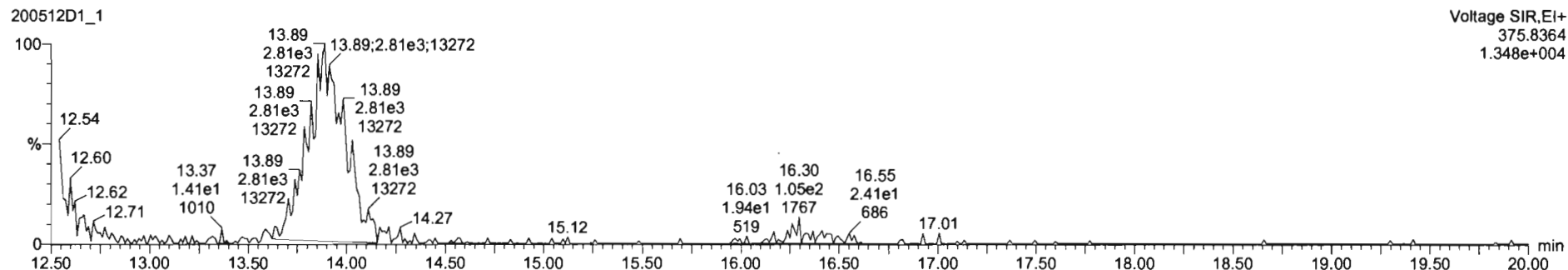
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200512D1\200512D1_2.qld

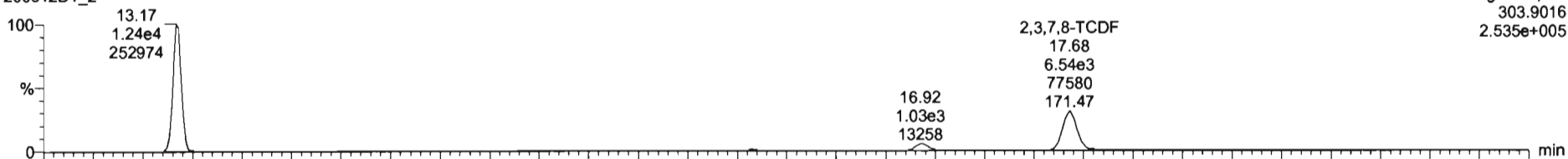
Last Altered: Tuesday, May 12, 2020 11:47:45 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 11:48:42 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

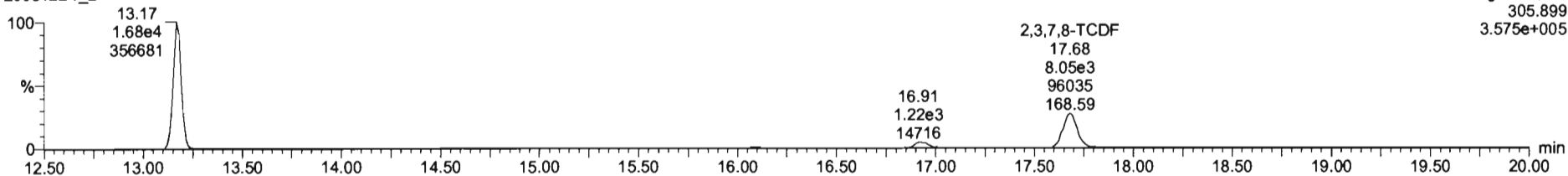
Name: 200512D1_2, Date: 12-May-2020, Time: 11:23:51, ID: ST200512D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200512D1_2



200512D1_2

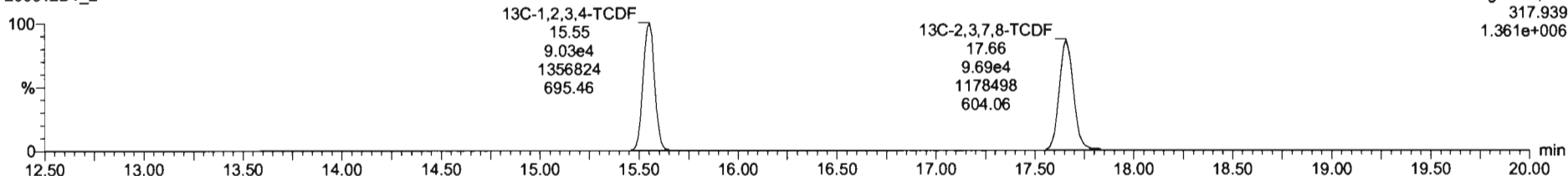


13C-2,3,7,8-TCDF

200512D1_2



200512D1_2



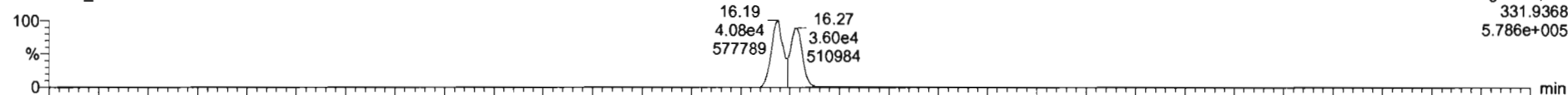
Dataset: U:\VG7.PRO\Results\200512D1\200512D1_2.qld

Last Altered: Tuesday, May 12, 2020 11:47:45 Pacific Daylight Time
Printed: Tuesday, May 12, 2020 11:48:42 Pacific Daylight Time

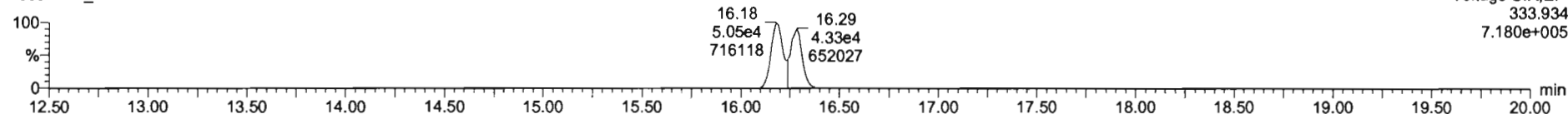
Name: 200512D1_2, Date: 12-May-2020, Time: 11:23:51, ID: ST200512D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200512D1_2

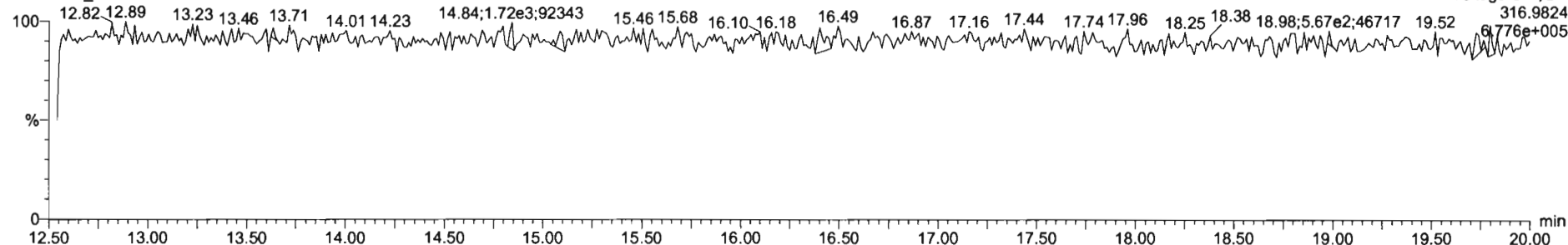


200512D1_2



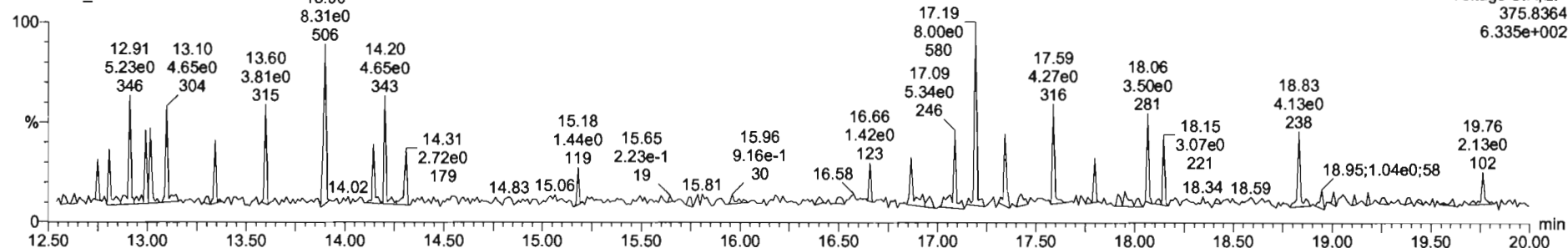
PFK1

200512D1_2



DPE1

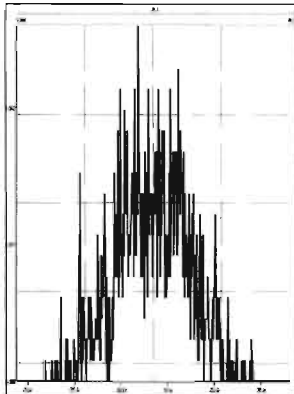
200512D1_2



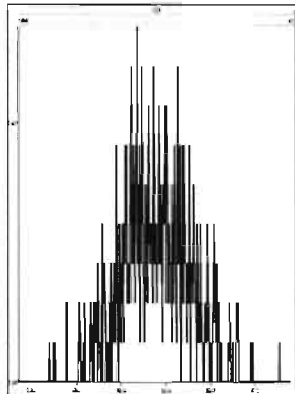
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 12, 2020 18:45:56 Pacific Daylight Time

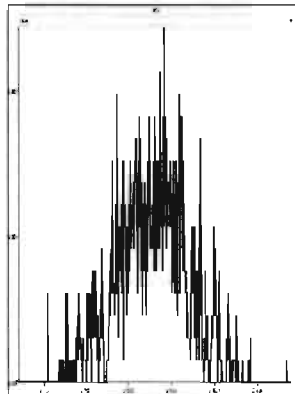
M 292.9824 R 10819



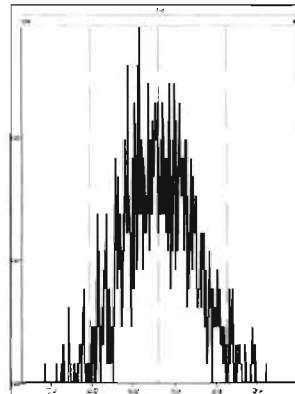
M 304.9824 R 13514



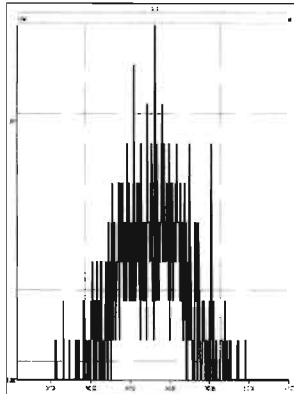
M 318.9792 R 14043



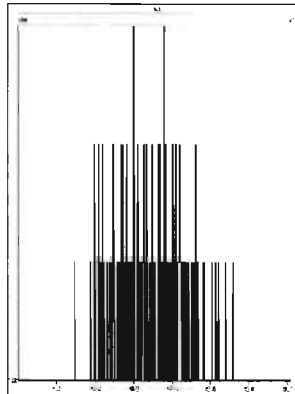
M 330.9792 R 12312



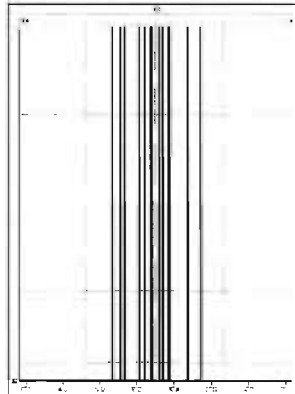
M 342.9792 R 12500



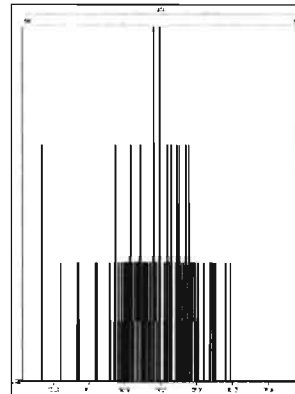
M 354.9792 R 249974



M 366.9792 R 833124



M 380.9760 R 833368



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld
Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

GRB 04/30/2020

CT 04/30/2020

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

Compound name: 2,3,7,8-TCDD
Response Factor: 0.947465
RRF SD: 0.050672, Relative SD: 5.34817
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	0.250	0.81	NO	26.07	1.002	3.67e3	1.71e6	0.227	-9.3	0.859	MM
2	200429R2_2	0.500	0.73	NO	26.05	1.001	6.88e3	1.49e6	0.486	-2.8	0.921	MM
3	200429R2_3	2.00	0.80	NO	26.05	1.001	2.77e4	1.43e6	2.04	2.1	0.968	MM
4	200429R2_4	10.0	0.76	NO	26.07	1.001	1.43e5	1.49e6	10.1	0.8	0.955	db
5	200429R2_5	40.0	0.79	NO	26.07	1.001	6.85e5	1.74e6	41.5	3.8	0.983	bb
6	200429R2_6	300	0.78	NO	26.05	1.001	6.08e6	2.03e6	316	5.4	0.998	bb

Compound name: 1,2,3,7,8-PeCDD
Response Factor: 0.942465
RRF SD: 0.0519271, Relative SD: 5.50971
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	0.59	NO	31.13	1.000	1.26e4	1.18e6	1.13	-9.9	0.849	MM
2	200429R2_2	2.50	0.61	NO	31.14	1.000	2.41e4	1.02e6	2.49	-0.4	0.939	bb
3	200429R2_3	10.0	0.62	NO	31.13	1.000	9.99e4	9.92e5	10.7	6.8	1.01	bb
4	200429R2_4	50.0	0.62	NO	31.13	1.000	5.37e5	1.14e6	49.9	-0.2	0.941	bb
5	200429R2_5	200	0.63	NO	31.14	1.000	2.46e6	1.29e6	202	1.0	0.952	bb
6	200429R2_6	1500	0.63	NO	31.13	1.000	2.34e7	1.61e6	1540	2.6	0.967	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
 Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

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

Response Factor: 1.06409

RRF SD: 0.0704393, Relative SD: 6.61967

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.23	NO	34.49	1.000	1.06e4	9.05e5	1.10	-12.2	0.934	bd
2	200429R2_2	2.50	1.24	NO	34.51	1.000	2.05e4	7.45e5	2.58	3.2	1.10	bd
3	200429R2_3	10.0	1.25	NO	34.49	1.000	8.24e4	7.52e5	10.3	3.1	1.10	bd
4	200429R2_4	50.0	1.22	NO	34.51	1.000	4.42e5	8.49e5	48.9	-2.2	1.04	MM
5	200429R2_5	200	1.23	NO	34.51	1.000	2.14e6	9.92e5	203	1.5	1.08	bd
6	200429R2_6	1500	1.23	NO	34.49	1.000	2.19e7	1.29e6	1600	6.6	1.13	bd

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

Response Factor: 0.914514

RRF SD: 0.0597197, Relative SD: 6.53021

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.18	NO	34.60	1.000	1.19e4	1.16e6	1.12	-10.3	0.820	db
2	200429R2_2	2.50	1.19	NO	34.60	1.000	2.18e4	9.85e5	2.42	-3.1	0.886	db
3	200429R2_3	10.0	1.26	NO	34.60	1.000	9.42e4	9.49e5	10.8	8.4	0.992	db
4	200429R2_4	50.0	1.20	NO	34.60	1.000	4.89e5	1.08e6	49.6	-0.9	0.906	MM
5	200429R2_5	200	1.23	NO	34.61	1.000	2.38e6	1.24e6	210	5.0	0.960	db
6	200429R2_6	1500	1.24	NO	34.60	1.001	2.35e7	1.70e6	1510	0.9	0.922	db

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

Response Factor: 0.914931

RRF SD: 0.0698725, Relative SD: 7.63691

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.17	NO	34.87	1.000	9.95e3	1.02e6	1.07	-14.6	0.782	MM
2	200429R2_2	2.50	1.21	NO	34.88	1.000	1.98e4	8.50e5	2.55	1.9	0.933	MM

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	1.24	NO	34.88	1.001	8.11e4	8.34e5	10.6	6.3	0.973	bb
4	200429R2_4	50.0	1.24	NO	34.88	1.000	4.19e5	9.34e5	49.1	-1.8	0.898	bb
5	200429R2_5	200	1.24	NO	34.89	1.001	2.07e6	1.09e6	208	4.2	0.953	bb
6	200429R2_6	1500	1.23	NO	34.87	1.000	2.08e7	1.46e6	1560	4.0	0.951	bb

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

Response Factor: 0.897908

RRF SD: 0.0622499, Relative SD: 6.93277

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

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.08	NO	38.38	1.001	7.93e3	8.17e5	1.08	-13.5	0.777	bb
2	200429R2_2	2.50	1.01	NO	38.37	1.000	1.48e4	6.60e5	2.50	-0.2	0.896	MM
3	200429R2_3	10.0	1.08	NO	38.36	1.000	5.91e4	6.39e5	10.3	3.1	0.925	bd
4	200429R2_4	50.0	0.99	NO	38.38	1.000	3.08e5	6.79e5	50.5	1.0	0.907	bb
5	200429R2_5	200	1.02	NO	38.38	1.000	1.52e6	8.11e5	208	4.1	0.934	bb
6	200429R2_6	1500	1.02	NO	38.37	1.001	1.60e7	1.13e6	1580	5.6	0.948	bb

Compound name: OCDD

Response Factor: 0.93349

RRF SD: 0.0706604, Relative SD: 7.56949

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	2.50	0.86	NO	41.35	1.000	1.41e4	1.42e6	2.13	-14.8	0.796	MM
2	200429R2_2	5.00	0.91	NO	41.35	1.000	2.79e4	1.21e6	4.96	-0.8	0.926	bd
3	200429R2_3	20.0	0.88	NO	41.34	1.000	1.08e5	1.10e6	21.2	5.8	0.988	MM
4	200429R2_4	100	0.88	NO	41.35	1.000	5.63e5	1.18e6	102	2.5	0.957	MM
5	200429R2_5	400	0.90	NO	41.35	1.000	2.87e6	1.50e6	411	2.7	0.959	MM
6	200429R2_6	3000	0.89	NO	41.34	1.000	3.39e7	2.31e6	3140	4.6	0.976	MM

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

Response Factor: 0.787102

RRF SD: 0.0402419, Relative SD: 5.11266

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	0.250	0.82	NO	25.09	1.001	4.51e3	2.52e6	0.228	-8.9	0.717	MM
2	200429R2_2	0.500	0.75	NO	25.11	1.001	8.73e3	2.22e6	0.501	0.1	0.788	MM
3	200429R2_3	2.00	0.74	NO	25.11	1.001	3.42e4	2.09e6	2.08	4.1	0.820	bb
4	200429R2_4	10.0	0.74	NO	25.11	1.001	1.65e5	2.15e6	9.76	-2.4	0.768	bb
5	200429R2_5	40.0	0.75	NO	25.12	1.001	8.12e5	2.52e6	41.0	2.4	0.806	bb
6	200429R2_6	300	0.75	NO	25.09	1.001	7.19e6	2.91e6	314	4.7	0.824	bb

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

Response Factor: 0.910199

RRF SD: 0.0533229, Relative SD: 5.85838

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.63	NO	29.81	1.000	1.97e4	1.94e6	1.12	-10.8	0.812	MM
2	200429R2_2	2.50	1.54	NO	29.83	1.000	3.85e4	1.69e6	2.50	0.1	0.911	MM
3	200429R2_3	10.0	1.57	NO	29.81	1.000	1.60e5	1.64e6	10.7	7.0	0.974	bb
4	200429R2_4	50.0	1.59	NO	29.81	1.000	8.46e5	1.86e6	50.0	0.0	0.910	bb
5	200429R2_5	200	1.55	NO	29.83	1.000	3.84e6	2.07e6	203	1.7	0.926	bb
6	200429R2_6	1500	1.56	NO	29.81	1.000	3.59e7	2.58e6	1530	1.9	0.928	bb

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

Response Factor: 0.96636

RRF SD: 0.0480881, Relative SD: 4.97621

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.49	NO	30.80	1.000	2.03e4	1.84e6	1.14	-8.8	0.881	MM
2	200429R2_2	2.50	1.53	NO	30.82	1.000	3.90e4	1.62e6	2.50	-0.1	0.966	MM

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	1.60	NO	30.80	1.000	1.61e5	1.57e6	10.6	6.4	1.03	bb
4	200429R2_4	50.0	1.56	NO	30.80	1.000	8.75e5	1.82e6	49.8	-0.4	0.962	bb
5	200429R2_5	200	1.55	NO	30.82	1.000	3.97e6	2.01e6	204	2.1	0.987	bb
6	200429R2_6	1500	1.54	NO	30.81	1.000	3.66e7	2.51e6	1510	0.7	0.973	bb

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

Response Factor: 0.878238

RRF SD: 0.066642, Relative SD: 7.58815

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.13	NO	33.64	1.001	1.14e4	1.22e6	1.06	-14.9	0.748	bd
2	200429R2_2	2.50	1.21	NO	33.64	1.000	2.26e4	1.02e6	2.52	0.9	0.886	bd
3	200429R2_3	10.0	1.22	NO	33.63	1.000	9.51e4	1.02e6	10.6	6.4	0.935	bd
4	200429R2_4	50.0	1.22	NO	33.64	1.000	5.03e5	1.13e6	50.6	1.1	0.888	bd
5	200429R2_5	200	1.19	NO	33.64	1.000	2.34e6	1.31e6	204	2.1	0.896	bd
6	200429R2_6	1500	1.19	NO	33.63	1.000	2.35e7	1.71e6	1570	4.4	0.917	bd

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

Response Factor: 0.873971

RRF SD: 0.0632141, Relative SD: 7.23298

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.23	NO	33.76	1.001	1.35e4	1.41e6	1.09	-12.6	0.763	MM
2	200429R2_2	2.50	1.19	NO	33.76	1.000	2.55e4	1.18e6	2.46	-1.4	0.861	db
3	200429R2_3	10.0	1.20	NO	33.76	1.001	1.09e5	1.14e6	11.0	9.5	0.957	dd
4	200429R2_4	50.0	1.17	NO	33.76	1.000	5.58e5	1.26e6	50.6	1.2	0.885	db
5	200429R2_5	200	1.19	NO	33.77	1.001	2.62e6	1.46e6	205	2.7	0.897	db
6	200429R2_6	1500	1.19	NO	33.75	1.000	2.52e7	1.91e6	1510	0.7	0.880	db

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

Response Factor: 0.921711

RRF SD: 0.0708547, Relative SD: 7.6873

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.14	NO	34.32	1.000	1.24e4	1.26e6	1.07	-14.7	0.786	bb
2	200429R2_2	2.50	1.16	NO	34.33	1.001	2.38e4	1.05e6	2.46	-1.5	0.908	MM
3	200429R2_3	10.0	1.22	NO	34.32	1.000	1.02e5	1.03e6	10.7	7.1	0.987	bb
4	200429R2_4	50.0	1.17	NO	34.33	1.000	5.42e5	1.14e6	51.6	3.2	0.951	bb
5	200429R2_5	200	1.19	NO	34.33	1.000	2.49e6	1.31e6	206	3.0	0.950	bb
6	200429R2_6	1500	1.19	NO	34.33	1.000	2.48e7	1.74e6	1540	2.9	0.948	bb

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

Response Factor: 0.864187

RRF SD: 0.0516808, Relative SD: 5.98028

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.22	NO	35.21	1.000	9.52e3	9.91e5	1.11	-11.0	0.769	MM
2	200429R2_2	2.50	1.21	NO	35.21	1.000	1.86e4	8.77e5	2.45	-1.8	0.848	MM
3	200429R2_3	10.0	1.22	NO	35.21	1.000	7.78e4	8.59e5	10.5	4.9	0.906	bb
4	200429R2_4	50.0	1.17	NO	35.22	1.000	4.02e5	9.29e5	50.1	0.2	0.866	bb
5	200429R2_5	200	1.19	NO	35.22	1.000	1.99e6	1.11e6	207	3.7	0.896	bb
6	200429R2_6	1500	1.20	NO	35.21	1.000	1.98e7	1.47e6	1560	4.0	0.899	bb

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

Response Factor: 0.871204

RRF SD: 0.0656544, Relative SD: 7.53606

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	0.99	NO	36.94	1.000	8.60e3	9.24e5	1.07	-14.5	0.745	MM
2	200429R2_2	2.50	1.00	NO	36.97	1.001	1.73e4	7.84e5	2.54	1.5	0.884	MM

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	0.95	NO	36.96	1.000	6.95e4	7.69e5	10.4	3.7	0.903	MM
4	200429R2_4	50.0	0.96	NO	36.97	1.000	3.72e5	8.65e5	49.4	-1.2	0.861	bb
5	200429R2_5	200	0.99	NO	36.97	1.000	1.79e6	9.81e5	210	5.0	0.914	bb
6	200429R2_6	1500	0.99	NO	36.96	1.001	1.89e7	1.37e6	1580	5.5	0.919	bb

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

Response Factor: 1.01156

RRF SD: 0.0670054, Relative SD: 6.62397

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	0.97	NO	38.95	1.000	6.68e3	5.96e5	1.11	-11.4	0.897	MM
2	200429R2_2	2.50	0.96	NO	38.95	1.000	1.20e4	4.92e5	2.41	-3.7	0.974	MM
3	200429R2_3	10.0	1.01	NO	38.95	1.000	4.94e4	4.72e5	10.4	3.5	1.05	MM
4	200429R2_4	50.0	1.00	NO	38.96	1.000	2.60e5	5.12e5	50.2	0.3	1.01	bb
5	200429R2_5	200	0.99	NO	38.96	1.000	1.29e6	6.09e5	209	4.7	1.06	bb
6	200429R2_6	1500	0.99	NO	38.94	1.000	1.43e7	8.85e5	1600	6.5	1.08	bb

Compound name: OCDF

Response Factor: 0.802147

RRF SD: 0.0574516, Relative SD: 7.16223

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	2.50	0.84	NO	41.52	1.000	1.41e4	1.62e6	2.17	-13.4	0.695	MM
2	200429R2_2	5.00	0.85	NO	41.52	1.000	2.74e4	1.40e6	4.88	-2.4	0.783	MM
3	200429R2_3	20.0	0.88	NO	41.52	1.000	1.07e5	1.27e6	21.0	5.0	0.842	bb
4	200429R2_4	100	0.86	NO	41.53	1.000	5.36e5	1.32e6	101	1.3	0.813	bb
5	200429R2_5	400	0.87	NO	41.53	1.000	2.84e6	1.69e6	420	5.0	0.842	bb
6	200429R2_6	3000	0.87	NO	41.52	1.000	3.30e7	2.63e6	3130	4.4	0.838	bb

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

Response Factor: 1.15948

RRF SD: 0.103741, Relative SD: 8.94721

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.79	NO	26.02	1.027	1.71e6	1.32e6	112	11.9	1.30	bb
2	200429R2_2	100	0.79	NO	26.03	1.027	1.49e6	1.44e6	89.7	-10.3	1.04	bb
3	200429R2_3	100	0.80	NO	26.02	1.026	1.43e6	1.38e6	89.4	-10.6	1.04	bb
4	200429R2_4	100	0.80	NO	26.03	1.027	1.49e6	1.28e6	100	0.3	1.16	bb
5	200429R2_5	100	0.79	NO	26.03	1.027	1.74e6	1.45e6	103	3.3	1.20	MM
6	200429R2_6	100	0.79	NO	26.02	1.027	2.03e6	1.66e6	105	5.4	1.22	bb

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

Response Factor: 0.847234

RRF SD: 0.105802, Relative SD: 12.488

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.64	NO	31.11	1.227	1.18e6	1.32e6	106	6.2	0.900	bb
2	200429R2_2	100	0.65	NO	31.13	1.227	1.02e6	1.44e6	84.2	-15.8	0.713	bb
3	200429R2_3	100	0.64	NO	31.11	1.227	9.92e5	1.38e6	84.9	-15.1	0.719	bb
4	200429R2_4	100	0.65	NO	31.11	1.227	1.14e6	1.28e6	105	5.0	0.889	bb
5	200429R2_5	100	0.63	NO	31.13	1.227	1.29e6	1.45e6	105	5.1	0.890	bb
6	200429R2_6	100	0.64	NO	31.11	1.227	1.61e6	1.66e6	115	14.6	0.971	bb

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

Response Factor: 0.749916

RRF SD: 0.0958664, Relative SD: 12.7836

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.27	NO	34.48	1.014	9.05e5	1.10e6	109	9.5	0.821	bd
2	200429R2_2	100	1.30	NO	34.49	1.014	7.45e5	1.19e6	83.5	-16.5	0.626	bd

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	1.29	NO	34.48	1.014	7.52e5	1.15e6	87.1	-12.9	0.653	bd
4	200429R2_4	100	1.29	NO	34.49	1.014	8.49e5	1.15e6	98.6	-1.4	0.739	bd
5	200429R2_5	100	1.28	NO	34.49	1.014	9.92e5	1.26e6	105	5.3	0.790	bd
6	200429R2_6	100	1.27	NO	34.48	1.014	1.29e6	1.48e6	116	16.0	0.870	bd

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

Response Factor: 0.963047

RRF SD: 0.127006, Relative SD: 13.1879

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.28	NO	34.59	1.017	1.16e6	1.10e6	109	9.3	1.05	db
2	200429R2_2	100	1.29	NO	34.59	1.017	9.85e5	1.19e6	85.9	-14.1	0.827	db
3	200429R2_3	100	1.29	NO	34.59	1.017	9.49e5	1.15e6	85.7	-14.3	0.825	db
4	200429R2_4	100	1.26	NO	34.59	1.017	1.08e6	1.15e6	97.7	-2.3	0.941	db
5	200429R2_5	100	1.27	NO	34.60	1.017	1.24e6	1.26e6	102	2.2	0.985	db
6	200429R2_6	100	1.26	NO	34.58	1.017	1.70e6	1.48e6	119	19.2	1.15	db

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

Response Factor: 0.83755

RRF SD: 0.108482, Relative SD: 12.9523

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.31	NO	34.86	1.025	1.02e6	1.10e6	110	10.2	0.923	bd
2	200429R2_2	100	1.28	NO	34.87	1.025	8.50e5	1.19e6	85.2	-14.8	0.713	bb
3	200429R2_3	100	1.25	NO	34.86	1.025	8.34e5	1.15e6	86.5	-13.5	0.724	bb
4	200429R2_4	100	1.25	NO	34.87	1.025	9.34e5	1.15e6	97.2	-2.8	0.814	bb
5	200429R2_5	100	1.25	NO	34.87	1.025	1.09e6	1.26e6	103	3.2	0.864	bb
6	200429R2_6	100	1.25	NO	34.86	1.025	1.46e6	1.48e6	118	17.7	0.986	bb

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

Response Factor: 0.641477

RRF SD: 0.0915679, Relative SD: 14.2745

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.06	NO	38.35	1.128	8.17e5	1.10e6	116	15.5	0.741	bd
2	200429R2_2	100	1.06	NO	38.36	1.128	6.60e5	1.19e6	86.4	-13.6	0.554	MM
3	200429R2_3	100	1.02	NO	38.36	1.128	6.39e5	1.15e6	86.5	-13.5	0.555	bb
4	200429R2_4	100	1.09	NO	38.37	1.128	6.79e5	1.15e6	92.2	-7.8	0.592	MM
5	200429R2_5	100	1.02	NO	38.37	1.128	8.11e5	1.26e6	101	0.6	0.646	bb
6	200429R2_6	100	1.05	NO	38.35	1.128	1.13e6	1.48e6	119	18.7	0.761	bb

Compound name: 13C-OCDD

Response Factor: 0.586321

RRF SD: 0.114579, Relative SD: 19.5421

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	200	0.89	NO	41.34	1.216	1.42e6	1.10e6	220	9.8	0.644	MM
2	200429R2_2	200	0.90	NO	41.34	1.215	1.21e6	1.19e6	173	-13.7	0.506	MM
3	200429R2_3	200	0.93	NO	41.33	1.215	1.10e6	1.15e6	162	-18.8	0.476	MM
4	200429R2_4	200	0.93	NO	41.34	1.215	1.18e6	1.15e6	175	-12.5	0.513	MM
5	200429R2_5	200	0.90	NO	41.34	1.215	1.50e6	1.26e6	203	1.7	0.597	MM
6	200429R2_6	200	0.90	NO	41.33	1.215	2.31e6	1.48e6	267	33.4	0.782	MM

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

Response Factor: 1.03447

RRF SD: 0.0994265, Relative SD: 9.61138

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.78	NO	25.08	0.989	2.52e6	2.12e6	115	14.8	1.19	bb
2	200429R2_2	100	0.78	NO	25.09	0.989	2.22e6	2.37e6	90.3	-9.7	0.934	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	0.78	NO	25.08	0.989	2.09e6	2.27e6	89.0	-11.0	0.920	bb
4	200429R2_4	100	0.77	NO	25.09	0.989	2.15e6	2.10e6	99.1	-0.9	1.03	bb
5	200429R2_5	100	0.79	NO	25.09	0.989	2.52e6	2.38e6	102	2.1	1.06	bb
6	200429R2_6	100	0.77	NO	25.08	0.989	2.91e6	2.69e6	105	4.7	1.08	bb

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

Response Factor: 0.84507

RRF SD: 0.102566, Relative SD: 12.137

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.60	NO	29.80	1.176	1.94e6	2.12e6	108	8.3	0.915	bb
2	200429R2_2	100	1.62	NO	29.81	1.176	1.69e6	2.37e6	84.4	-15.6	0.713	bb
3	200429R2_3	100	1.61	NO	29.80	1.175	1.64e6	2.27e6	85.7	-14.3	0.724	bb
4	200429R2_4	100	1.63	NO	29.80	1.175	1.86e6	2.10e6	105	4.9	0.886	bb
5	200429R2_5	100	1.58	NO	29.81	1.176	2.07e6	2.38e6	103	3.0	0.871	bb
6	200429R2_6	100	1.59	NO	29.80	1.176	2.58e6	2.69e6	114	13.7	0.960	bb

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

Response Factor: 0.814071

RRF SD: 0.103739, Relative SD: 12.7432

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.58	NO	30.79	1.215	1.84e6	2.12e6	107	6.7	0.869	bb
2	200429R2_2	100	1.59	NO	30.80	1.215	1.62e6	2.37e6	83.6	-16.4	0.681	db
3	200429R2_3	100	1.58	NO	30.79	1.214	1.57e6	2.27e6	84.8	-15.2	0.691	db
4	200429R2_4	100	1.60	NO	30.79	1.214	1.82e6	2.10e6	107	6.5	0.867	db
5	200429R2_5	100	1.60	NO	30.80	1.215	2.01e6	2.38e6	104	3.7	0.844	db
6	200429R2_6	100	1.58	NO	30.79	1.215	2.51e6	2.69e6	115	14.6	0.933	db

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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

Response Factor: 1.00488

RRF SD: 0.118528, Relative SD: 11.7952

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.50	NO	33.62	0.989	1.22e6	1.10e6	110	10.1	1.11	bd
2	200429R2_2	100	0.51	NO	33.63	0.989	1.02e6	1.19e6	85.4	-14.6	0.858	bd
3	200429R2_3	100	0.51	NO	33.62	0.988	1.02e6	1.15e6	88.0	-12.0	0.884	bd
4	200429R2_4	100	0.51	NO	33.63	0.989	1.13e6	1.15e6	98.3	-1.7	0.987	bd
5	200429R2_5	100	0.51	NO	33.63	0.988	1.31e6	1.26e6	103	3.5	1.04	bd
6	200429R2_6	100	0.51	NO	33.62	0.989	1.71e6	1.48e6	115	14.9	1.15	bd

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

Response Factor: 1.13681

RRF SD: 0.13421, Relative SD: 11.8059

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.51	NO	33.74	0.992	1.41e6	1.10e6	113	12.9	1.28	db
2	200429R2_2	100	0.52	NO	33.75	0.992	1.18e6	1.19e6	87.4	-12.6	0.994	db
3	200429R2_3	100	0.51	NO	33.74	0.992	1.14e6	1.15e6	87.0	-13.0	0.990	db
4	200429R2_4	100	0.51	NO	33.75	0.992	1.26e6	1.15e6	96.7	-3.3	1.10	db
5	200429R2_5	100	0.51	NO	33.75	0.992	1.46e6	1.26e6	102	2.3	1.16	db
6	200429R2_6	100	0.51	NO	33.74	0.992	1.91e6	1.48e6	114	13.7	1.29	db

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

Response Factor: 1.02233

RRF SD: 0.123256, Relative SD: 12.0564

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.52	NO	34.31	1.009	1.26e6	1.10e6	112	11.8	1.14	MM
2	200429R2_2	100	0.51	NO	34.31	1.009	1.05e6	1.19e6	86.2	-13.8	0.881	bb

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	0.52	NO	34.31	1.009	1.03e6	1.15e6	87.6	-12.4	0.895	bb
4	200429R2_4	100	0.51	NO	34.33	1.009	1.14e6	1.15e6	97.2	-2.8	0.993	bb
5	200429R2_5	100	0.51	NO	34.33	1.009	1.31e6	1.26e6	102	2.1	1.04	bb
6	200429R2_6	100	0.51	NO	34.31	1.009	1.74e6	1.48e6	115	15.2	1.18	bb

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

Response Factor: 0.844773

RRF SD: 0.0991685, Relative SD: 11.7391

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.51	NO	35.20	1.035	9.91e5	1.10e6	106	6.4	0.899	bb
2	200429R2_2	100	0.51	NO	35.20	1.035	8.77e5	1.19e6	87.2	-12.8	0.737	bb
3	200429R2_3	100	0.50	NO	35.20	1.035	8.59e5	1.15e6	88.3	-11.7	0.746	bb
4	200429R2_4	100	0.51	NO	35.21	1.035	9.29e5	1.15e6	95.9	-4.1	0.810	MM
5	200429R2_5	100	0.51	NO	35.21	1.035	1.11e6	1.26e6	105	4.6	0.883	bb
6	200429R2_6	100	0.52	NO	35.20	1.035	1.47e6	1.48e6	118	17.6	0.994	bb

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

Response Factor: 0.771212

RRF SD: 0.102676, Relative SD: 13.3136

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.43	NO	36.93	1.086	9.24e5	1.10e6	109	8.6	0.838	bb
2	200429R2_2	100	0.43	NO	36.94	1.086	7.84e5	1.19e6	85.4	-14.6	0.659	bb
3	200429R2_3	100	0.44	NO	36.94	1.086	7.69e5	1.15e6	86.7	-13.3	0.668	bd
4	200429R2_4	100	0.43	NO	36.96	1.086	8.65e5	1.15e6	97.7	-2.3	0.754	bd
5	200429R2_5	100	0.42	NO	36.96	1.086	9.81e5	1.26e6	101	1.2	0.781	bb
6	200429R2_6	100	0.44	NO	36.93	1.086	1.37e6	1.48e6	120	20.3	0.928	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.482289

RRF SD: 0.0750769, Relative SD: 15.5668

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.41	NO	38.94	1.145	5.96e5	1.10e6	112	12.1	0.541	bb
2	200429R2_2	100	0.44	NO	38.94	1.145	4.92e5	1.19e6	85.7	-14.3	0.413	MM
3	200429R2_3	100	0.45	NO	38.94	1.145	4.72e5	1.15e6	85.0	-15.0	0.410	MM
4	200429R2_4	100	0.44	NO	38.95	1.145	5.12e5	1.15e6	92.5	-7.5	0.446	MM
5	200429R2_5	100	0.43	NO	38.95	1.145	6.09e5	1.26e6	101	0.6	0.485	bb
6	200429R2_6	100	0.43	NO	38.93	1.145	8.85e5	1.48e6	124	24.1	0.598	bb

Compound name: 13C-OCDF

Response Factor: 0.668505

RRF SD: 0.127842, Relative SD: 19.1235

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	200	0.88	NO	41.51	1.221	1.62e6	1.10e6	220	9.9	0.735	bb
2	200429R2_2	200	0.86	NO	41.51	1.220	1.40e6	1.19e6	176	-12.0	0.588	MM
3	200429R2_3	200	0.89	NO	41.51	1.220	1.27e6	1.15e6	165	-17.4	0.552	bd
4	200429R2_4	200	0.88	NO	41.52	1.221	1.32e6	1.15e6	172	-14.0	0.575	bb
5	200429R2_5	200	0.87	NO	41.52	1.220	1.69e6	1.26e6	201	0.5	0.672	bb
6	200429R2_6	200	0.88	NO	41.51	1.221	2.63e6	1.48e6	266	33.0	0.889	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.09842

RRF SD: 0.0959308, Relative SD: 8.73354

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	0.250			26.05	1.028	3.33e3	1.32e6	0.230	-7.9	1.01	bb
2	200429R2_2	0.500			26.07	1.028	7.64e3	1.44e6	0.484	-3.2	1.06	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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Compound name: 37CI-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	2.00			26.05	1.027	2.74e4	1.38e6	1.81	-9.5	0.994	bd
4	200429R2_4	10.0			26.05	1.027	1.41e5	1.28e6	10.0	0.4	1.10	bb
5	200429R2_5	40.0			26.07	1.028	6.87e5	1.45e6	43.0	7.5	1.18	bb
6	200429R2_6	200			26.05	1.028	4.11e6	1.66e6	225	12.7	1.24	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.80	NO	25.35	1.000	1.32e6	1.32e6	100	0.0	1.00	bb
2	200429R2_2	100	0.80	NO	25.36	1.000	1.44e6	1.44e6	100	0.0	1.00	bb
3	200429R2_3	100	0.81	NO	25.36	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200429R2_4	100	0.80	NO	25.36	1.000	1.28e6	1.28e6	100	0.0	1.00	bb
5	200429R2_5	100	0.81	NO	25.36	1.000	1.45e6	1.45e6	100	0.0	1.00	bb
6	200429R2_6	100	0.80	NO	25.35	1.000	1.66e6	1.66e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.79	NO	23.57	1.000	2.12e6	2.12e6	100	0.0	1.00	bb
2	200429R2_2	100	0.79	NO	23.58	1.000	2.37e6	2.37e6	100	0.0	1.00	bb
3	200429R2_3	100	0.79	NO	23.58	1.000	2.27e6	2.27e6	100	0.0	1.00	bb
4	200429R2_4	100	0.79	NO	23.59	1.000	2.10e6	2.10e6	100	0.0	1.00	bb
5	200429R2_5	100	0.79	NO	23.59	1.000	2.38e6	2.38e6	100	0.0	1.00	bb
6	200429R2_6	100	0.79	NO	23.57	1.000	2.69e6	2.69e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 7:56:51 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	200429R2_1	100	0.51	NO	34.01	1.000	1.10e6	1.10e6	100	0.0	1.00	bb
2	200429R2_2	100	0.50	NO	34.01	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
3	200429R2_3	100	0.51	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
4	200429R2_4	100	0.50	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
5	200429R2_5	100	0.51	NO	34.03	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
6	200429R2_6	100	0.51	NO	34.01	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:40:20 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

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

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.90
2	2 1,2,8,9-TCDD (Last)	27.05
3	3 1,2,4,7,9-PeCDD (First)	28.88
4	4 1,2,3,8,9-PeCDD (Last)	31.52
5	5 1,2,4,6,7,9-HxCDD (First)	33.04
6	6 1,2,3,7,8,9-HxCDD (Last)	34.88
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.35
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.38
9	9 1,3,6,8-TCDF (First)	19.85
10	10 1,2,8,9-TCDF (Last)	27.19
11	11 1,3,4,6,8-PeCDF (First)	27.17
12	12 1,2,3,8,9-PeCDF (Last)	31.75
13	13 1,2,3,4,6,8-HxCDF (First)	32.47
14	14 1,2,3,7,8,9-HxCDF (Last)	35.22
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.97
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.96

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 8:40:20 AM Pacific Daylight Time

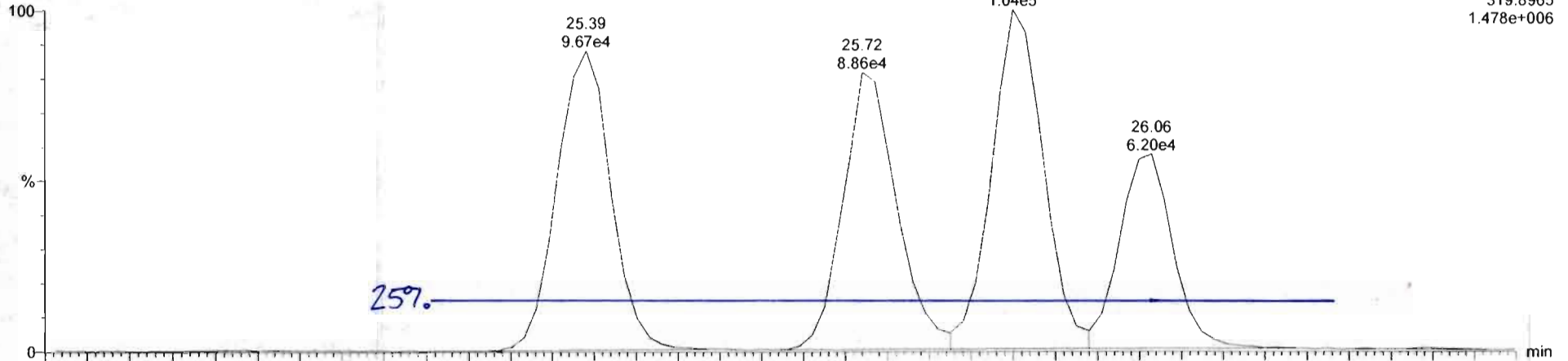
GPB 04/30/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

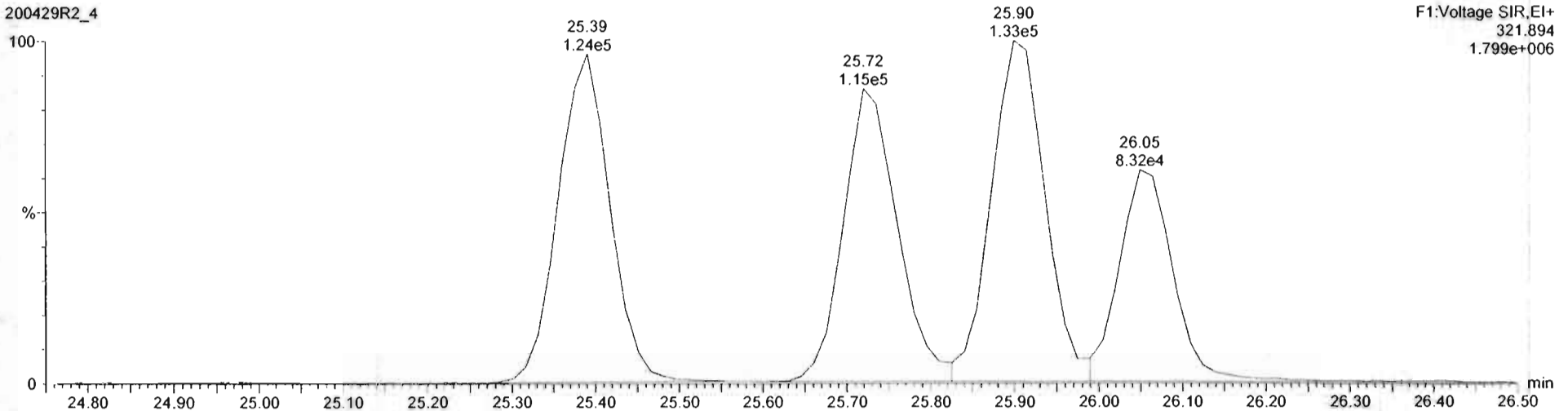
1,3,6,8-TCDD (First)
200429R2_4

F1:Voltage SIR,EI+
319.8965
1.478e+006



200429R2_4

F1:Voltage SIR,EI+
321.894
1.799e+006



Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:43 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 8:41:41 AM Pacific Daylight Time

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

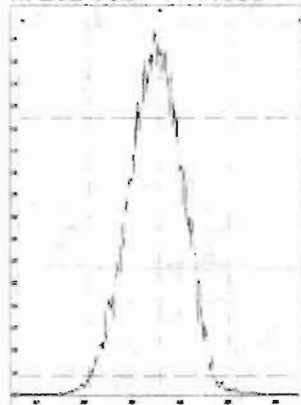
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200429R2_1	ST200429R2_1 1613 CS0 19L2302	29-Apr-20	13:27:25
2	200429R2_2	ST200429R2_2 1613 CS1 19L2303	29-Apr-20	14:15:04
3	200429R2_3	ST200429R2_3 1613 CS2 19L2304	29-Apr-20	15:02:24
4	200429R2_4	ST200429R2_4 1613 CS3 19L2305	29-Apr-20	15:48:39
5	200429R2_5	ST200429R2_5 1613 CS4 19L2306	29-Apr-20	16:35:58
6	200429R2_6	ST200429R2_6 1613 CS5 19L2307	29-Apr-20	17:23:21
7	200429R2_7	SOLVENT BLANK	29-Apr-20	18:10:44
8	200429R2_8	SS200429R2_1 1613 SSS 19L2308	29-Apr-20	18:58:05
9	200429R2_9	B0C0304-BS4 OPR 10	29-Apr-20	19:54:24
10	200429R2_10	B0C0304-BS3 OPR 10	29-Apr-20	20:40:38
11	200429R2_11	B0C0304-BS2 OPR 10	29-Apr-20	21:28:00
12	200429R2_12	B0C0304-BS1 OPR 10	29-Apr-20	22:15:28
13	200429R2_13	B0D0053-BS4 OPR 10	29-Apr-20	23:02:49
14	200429R2_14	B0D0053-BS3 OPR 10	29-Apr-20	23:50:11
15	200429R2_15	B0D0053-BS2 OPR 10	30-Apr-20	00:37:32
16	200429R2_16	B0D0053-BS1 OPR 10	30-Apr-20	01:24:55
17	200429R2_17	SOLVENT BLANK	30-Apr-20	02:12:17
18	200429R2_18	B0D0053-BLK1 Method Blank 10	30-Apr-20	02:59:37
19	200429R2_19	SOLVENT BLANK	30-Apr-20	03:55:52

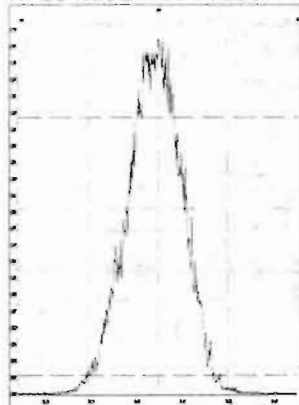
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:21:30 Pacific Daylight Time

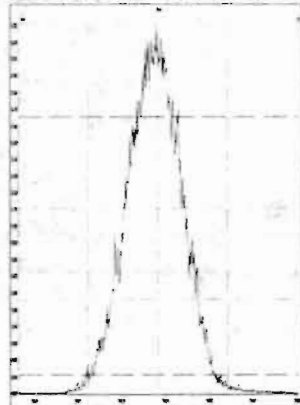
M 292.9824 R 11363



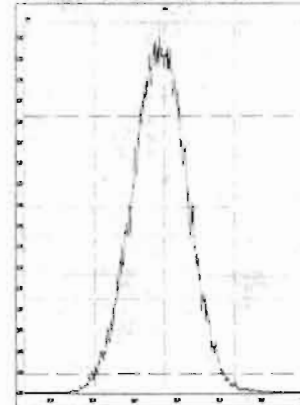
M 304.9824 R 11059



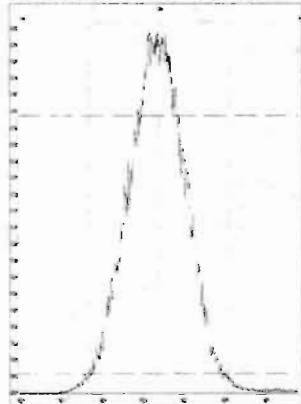
M 318.9792 R 11211



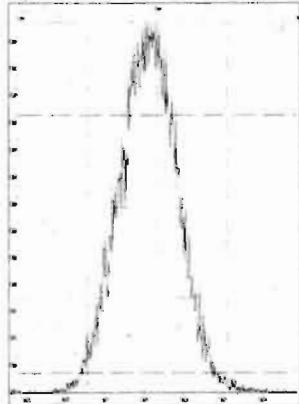
M 330.9792 R 11311



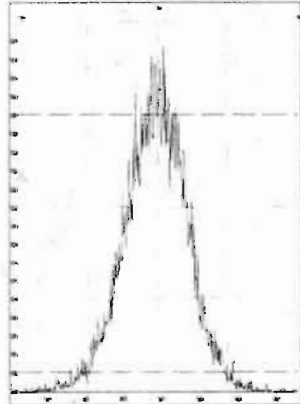
M 342.9792 R 10772



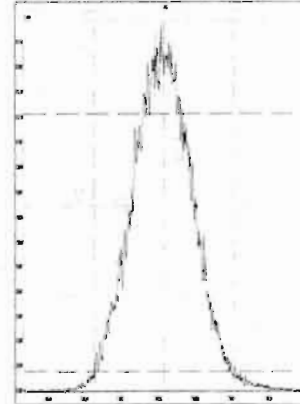
M 354.9792 R 10729



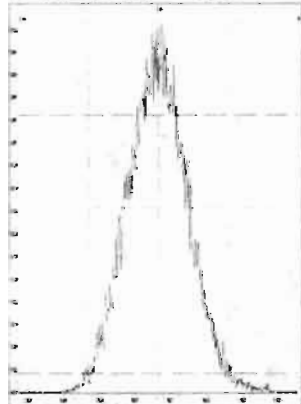
M 366.9792 R 10078



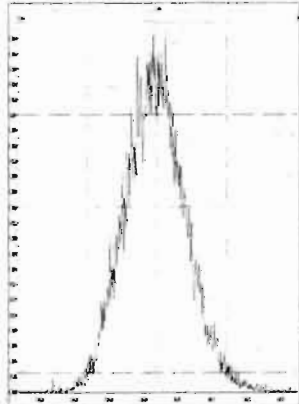
M 380.9760 R 10288



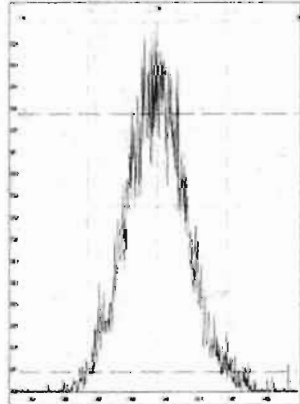
M 392.9760 R 10371



M 404.9760 R 10417



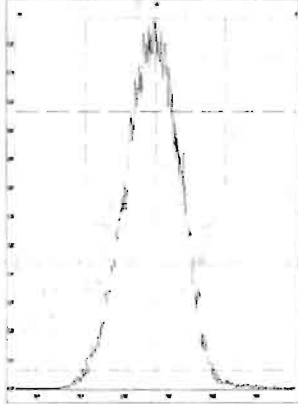
M 416.9760 R 10964



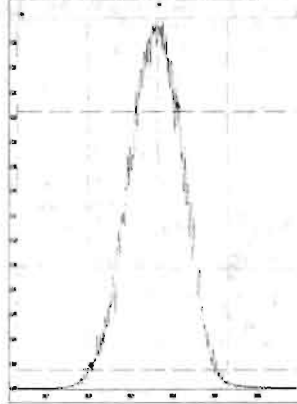
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:22:18 Pacific Daylight Time

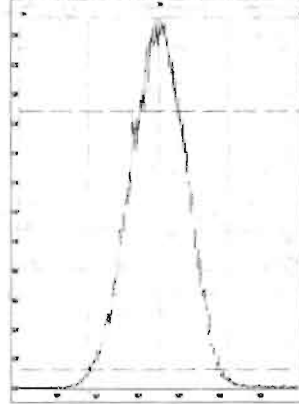
M 318.9792 R 11365



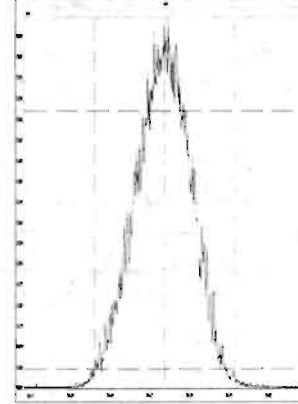
M 330.9792 R 11420



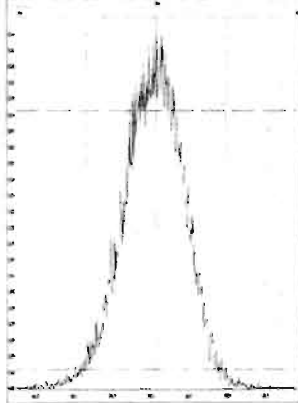
M 342.9792 R 10824



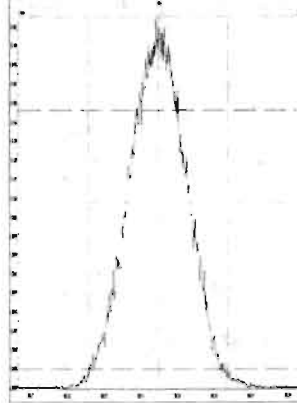
M 354.9792 R 11312



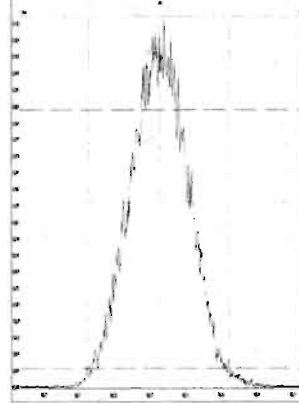
M 366.9792 R 10371



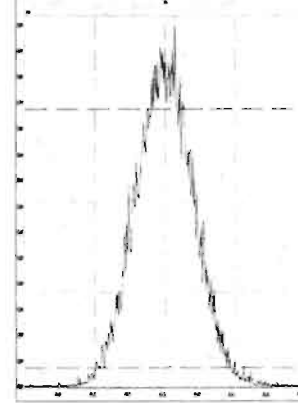
M 380.9760 R 10772



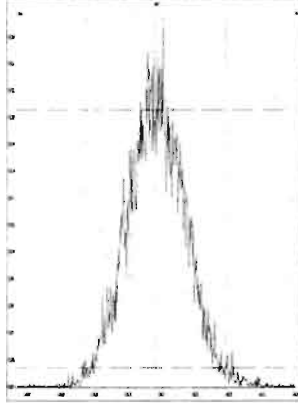
M 392.9760 R 10916



M 404.9760 R 10370



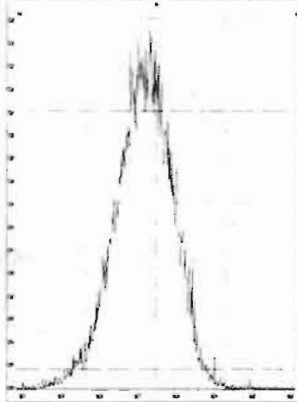
M 416.9760 R 10916



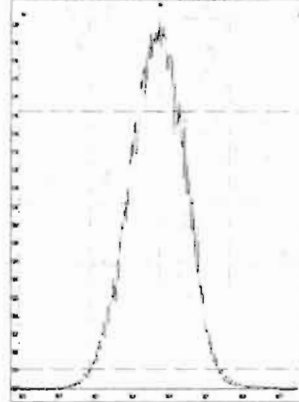
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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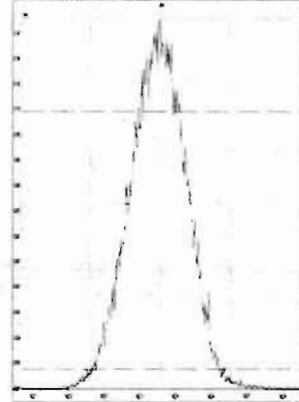
M 366.9792 R 11519



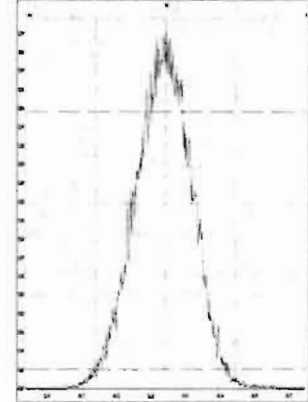
M 380.9760 R 10914



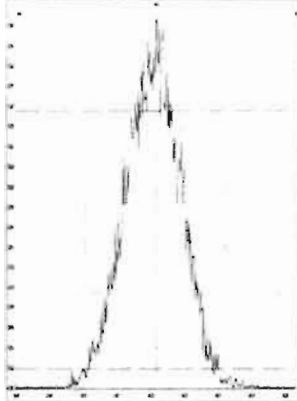
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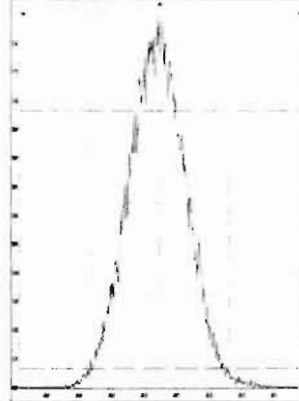
M 404.9760 R 10867



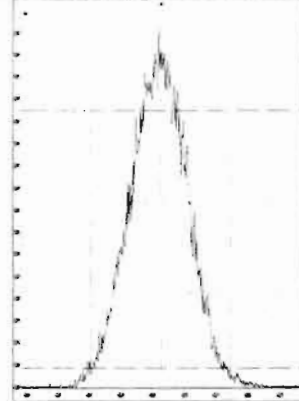
M 416.9760 R 11210



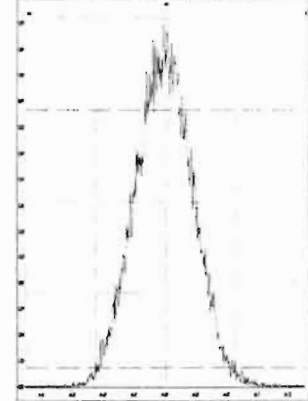
M 430.9728 R 10637



M 442.9728 R 10917



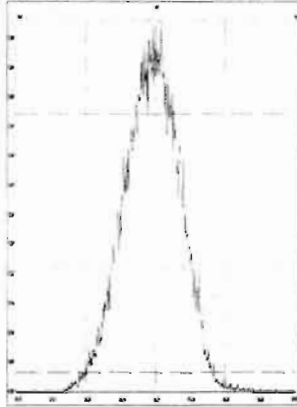
M 454.9728 R 10683



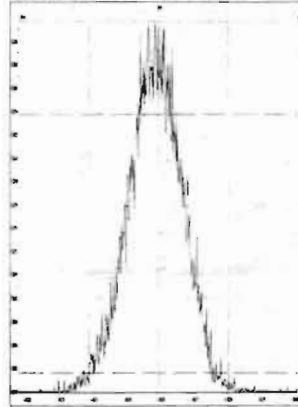
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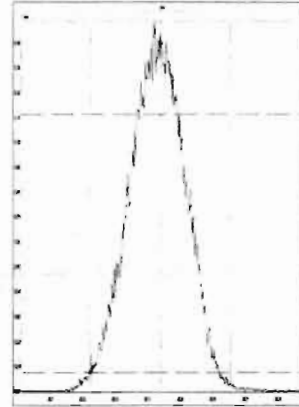
M 404.9760 R 11060



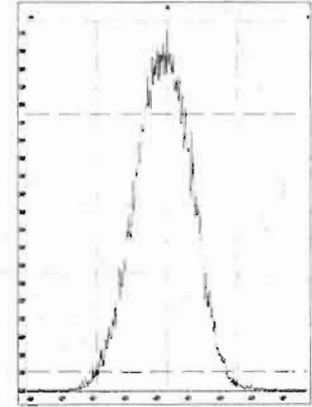
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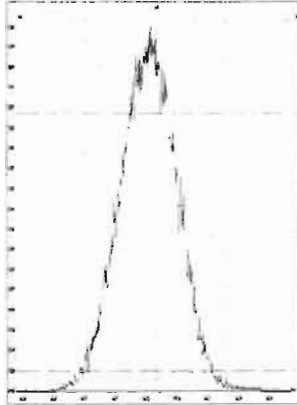
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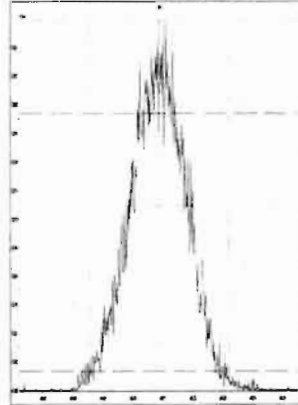
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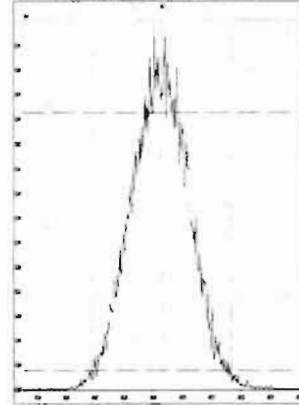
M 454.9728 R 10729



M 466.9728 R 11846



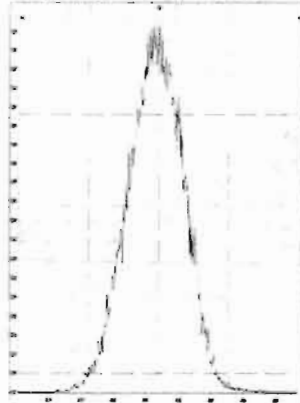
M 480.9696 R 10776



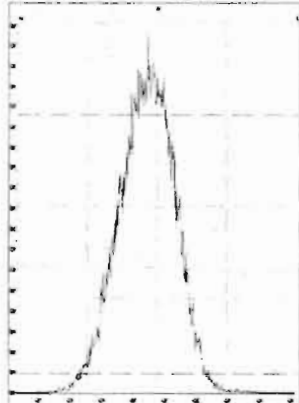
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Printed: Wednesday, April 29, 2020 13:23:43 Pacific Daylight Time

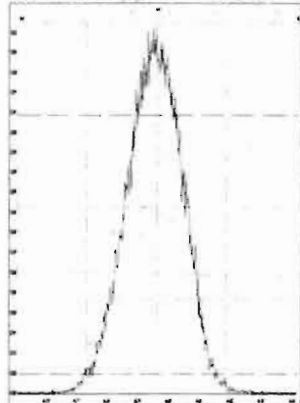
M 430.9728 R 11108



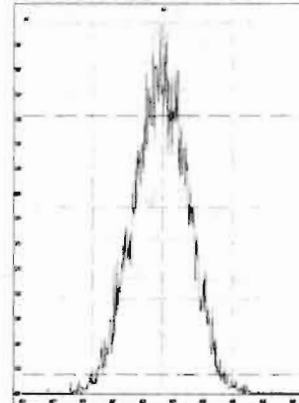
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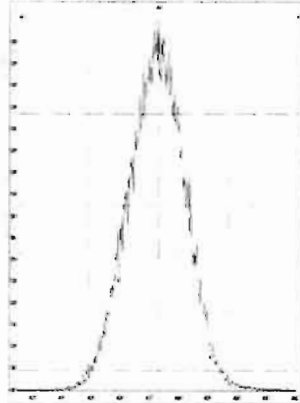
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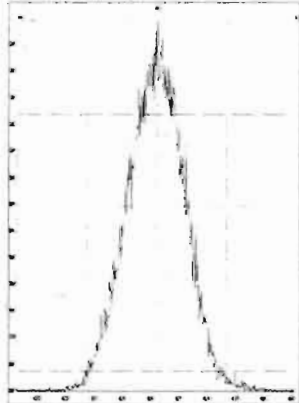
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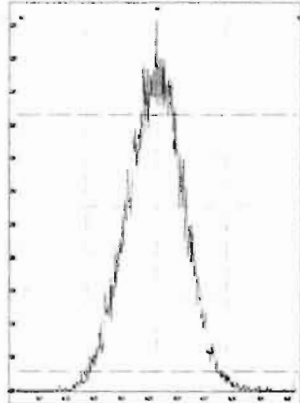
M 480.9696 R 10916



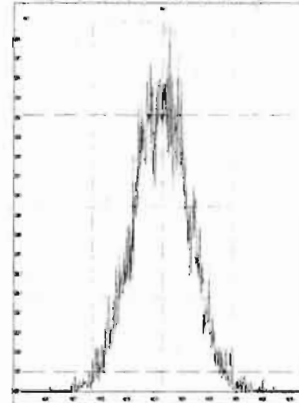
M 492.9696 R 10918



M 504.9696 R 11110



M 516.9697 R 11365



Dataset: Untitled

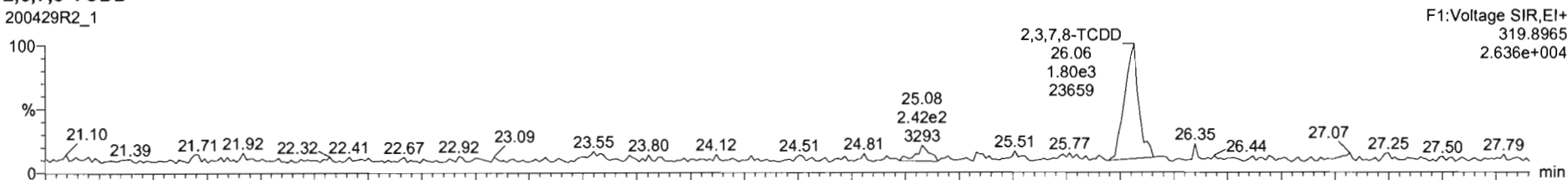
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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

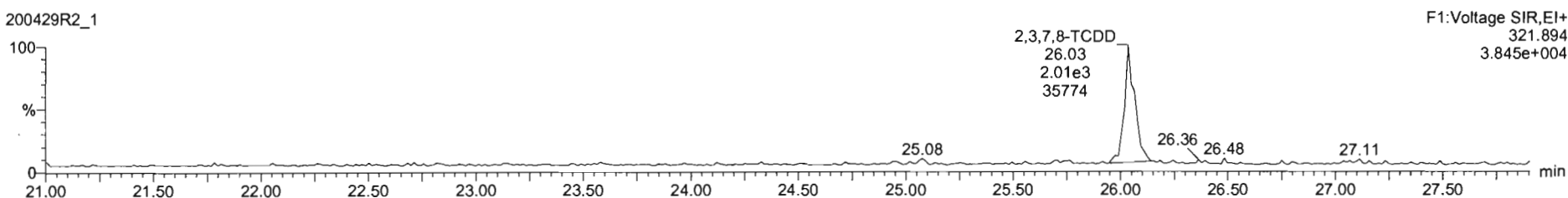
Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200429R2_1

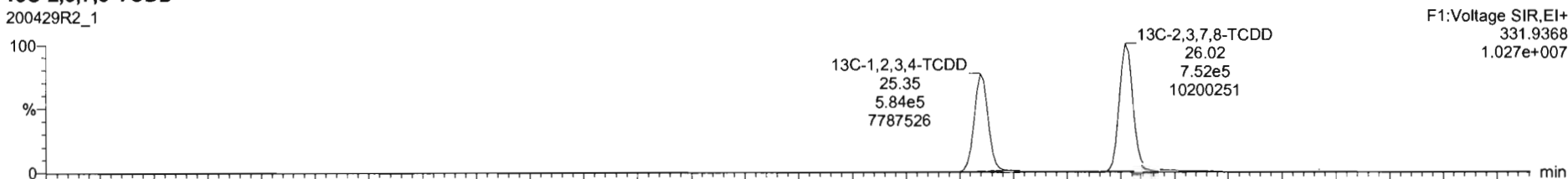


200429R2_1

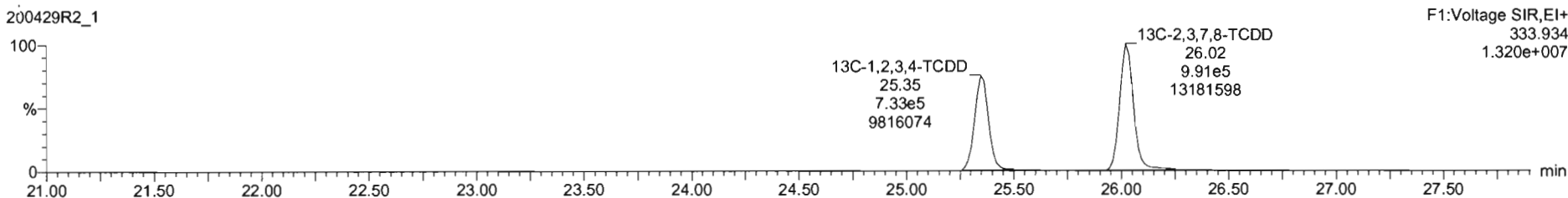


13C-2,3,7,8-TCDD

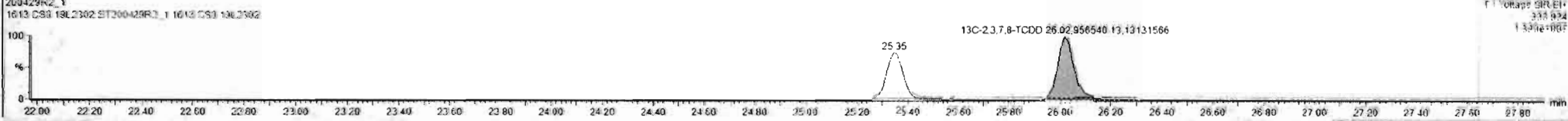
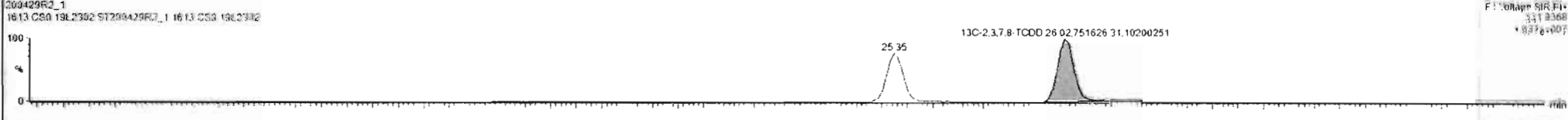
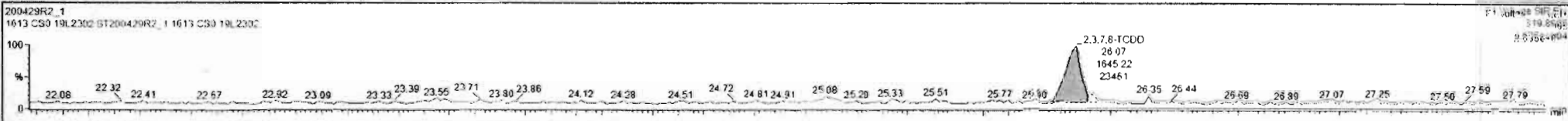
200429R2_1



200429R2_1



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.2	6.35	0.947	0.0587
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	28.38	1.084	NO	7.9301e3	8.1666e5	1.250	-13.5	6.93	0.896	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.6	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5135e3	2.5190e6	0.250	-3.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.54	1.134	NO	1.1393e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0568
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.2594e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0706
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



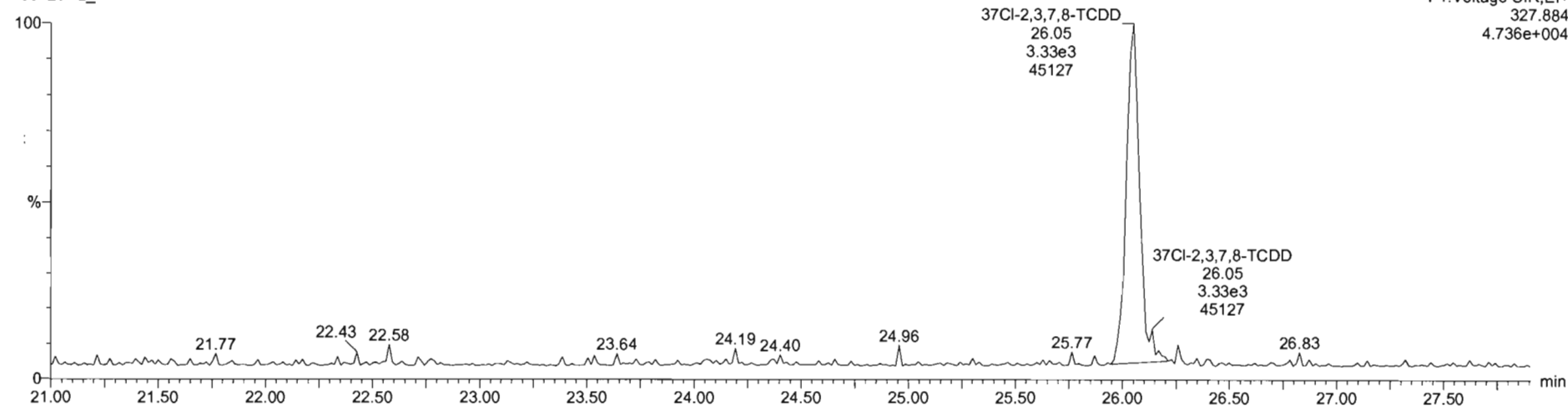
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

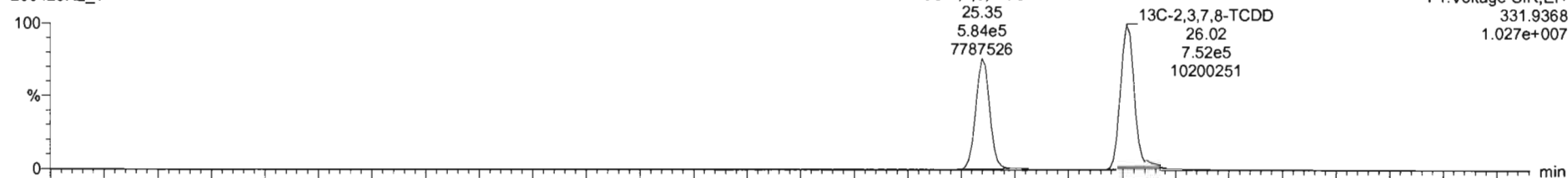
37Cl-2,3,7,8-TCDD

200429R2_1

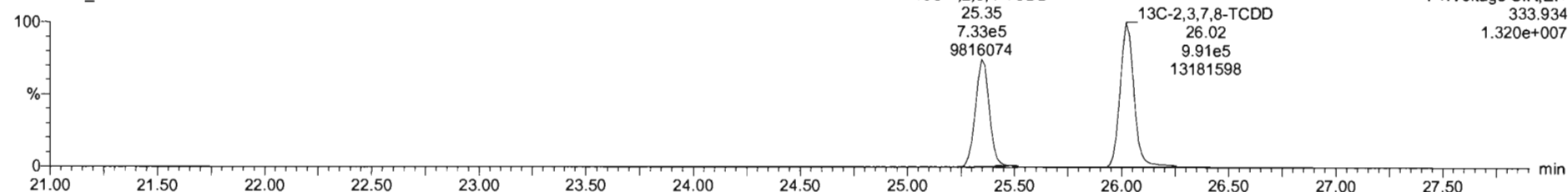


13C-1,2,3,4-TCDD

200429R2_1



200429R2_1



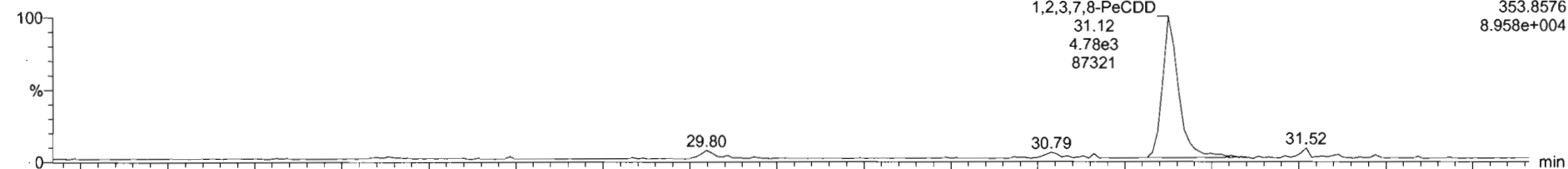
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

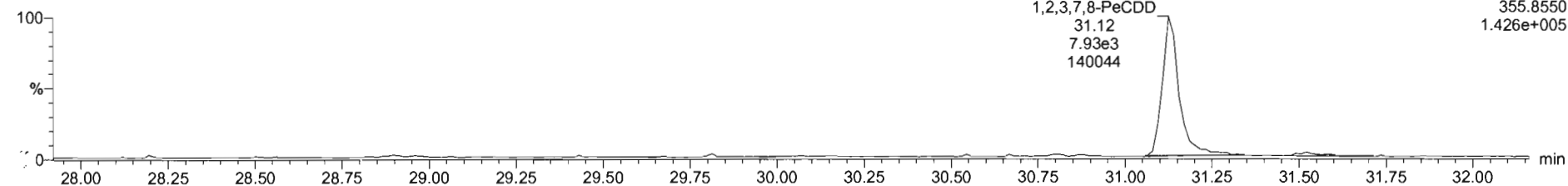
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1,2,3,7,8-PeCDD

200429R2_1

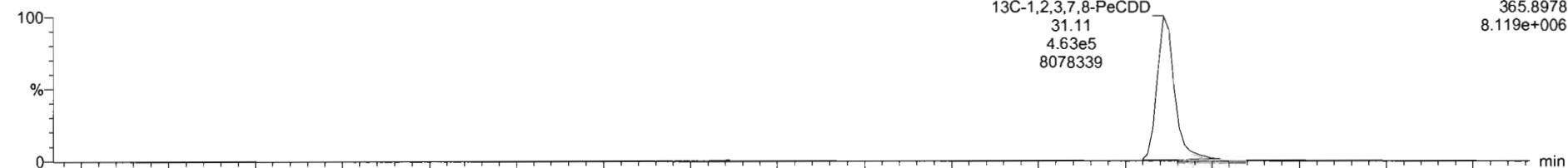


200429R2_1

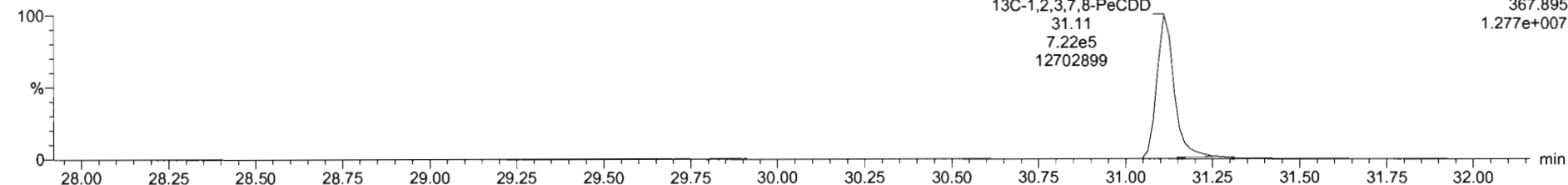


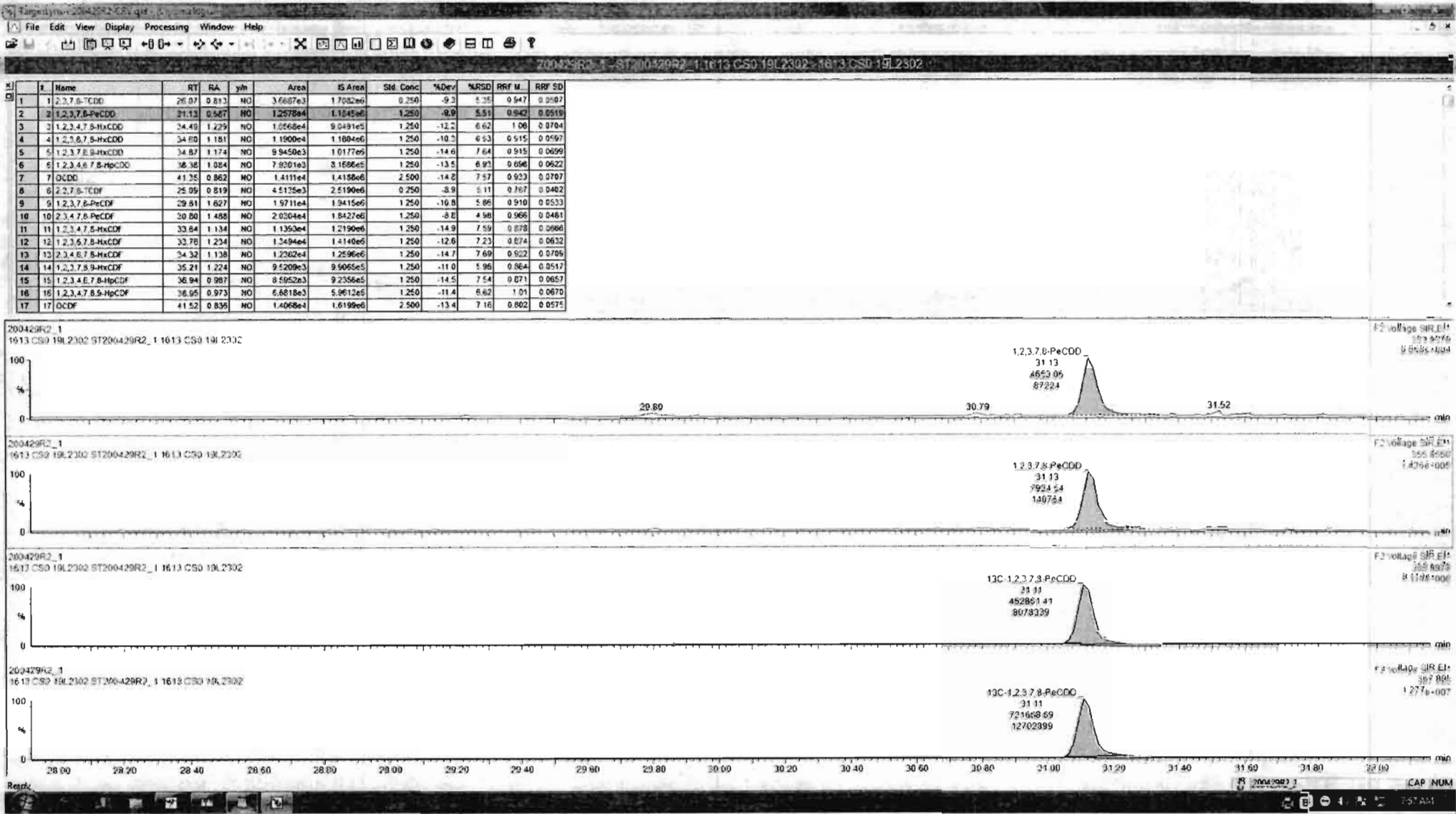
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200429R2_1



200429R2_1





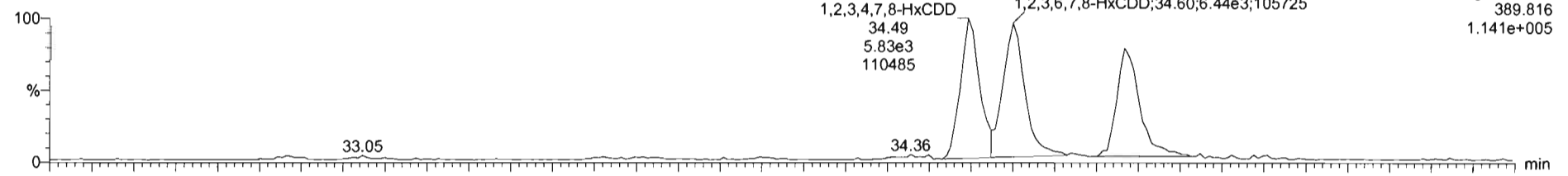
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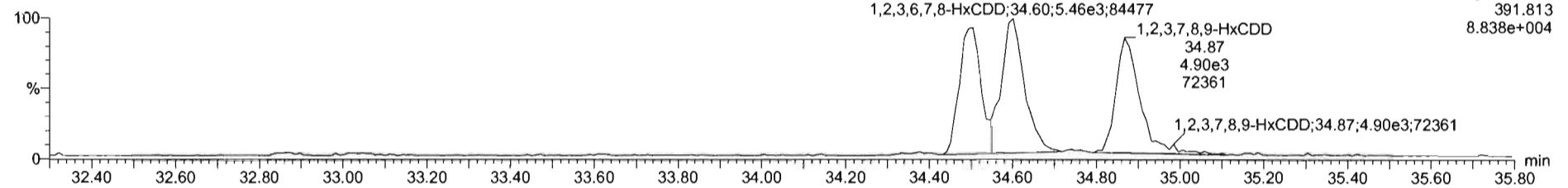
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1,2,3,4,7,8-HxCDD

200429R2_1

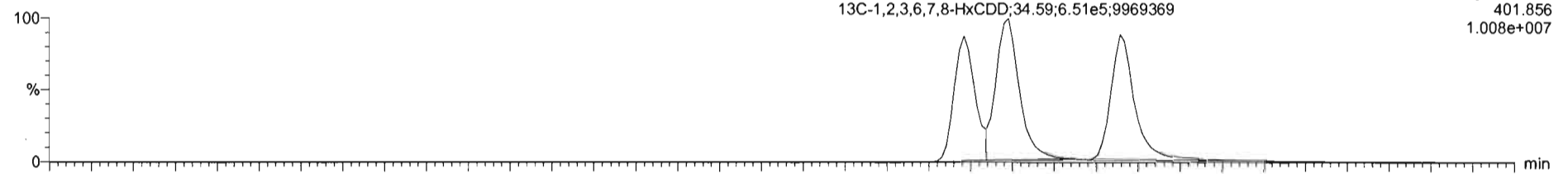


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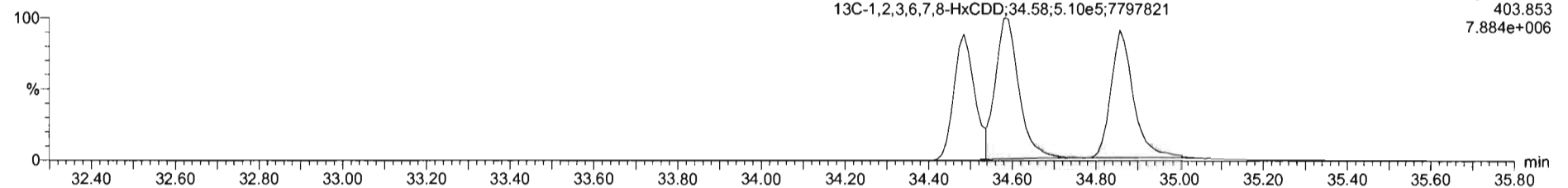


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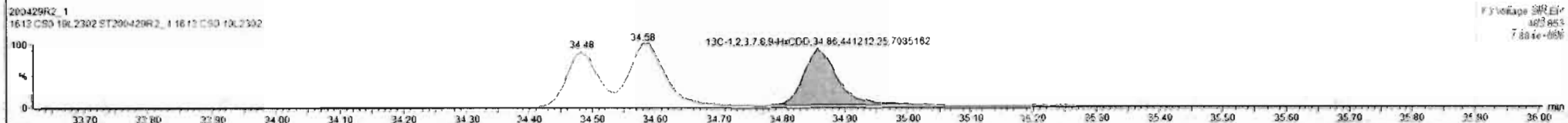
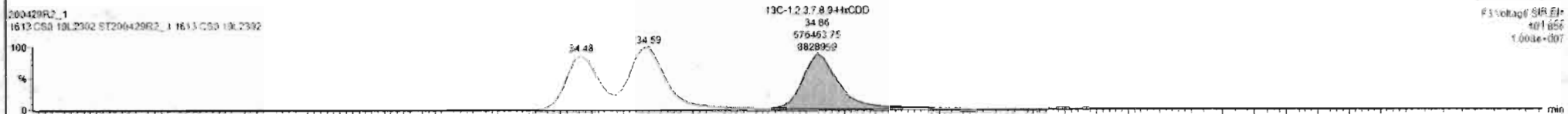
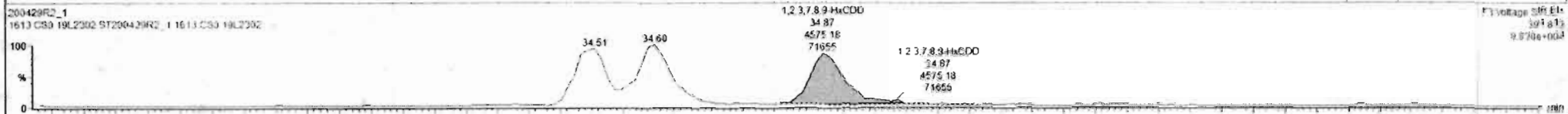
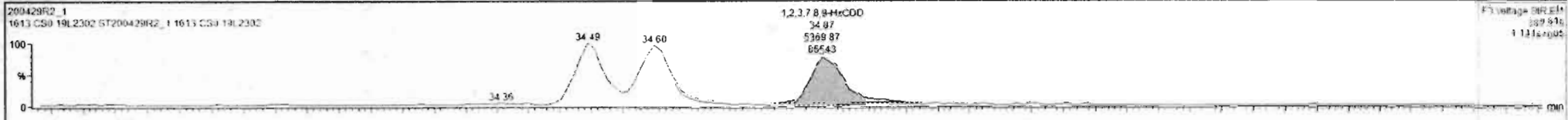
200429R2_1



200429R2_1



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.913	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0587
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.67	1.174	NO	9.9450e3	1.0177e6	1.250	-14.4	7.64	0.915	0.0598
6	1,2,3,4,6,7,8-HpCDD	36.38	1.054	NO	7.9201e3	8.1666e5	1.250	-13.5	8.93	0.856	0.0522
7	OCDD	41.35	0.862	NO	1.4111e4	1.4186e6	2.500	-14.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.95	0.919	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.027	NO	1.9711e4	1.9415e6	1.250	-10.8	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1393e4	1.2190e6	1.250	-14.3	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0789
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0678
17	DCDF	41.52	0.836	NO	1.4066e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



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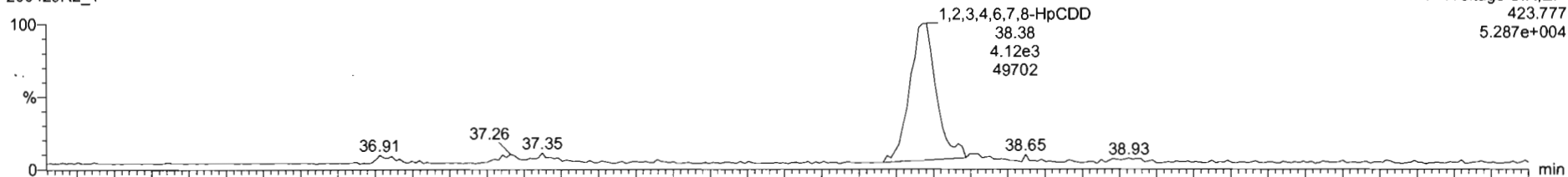
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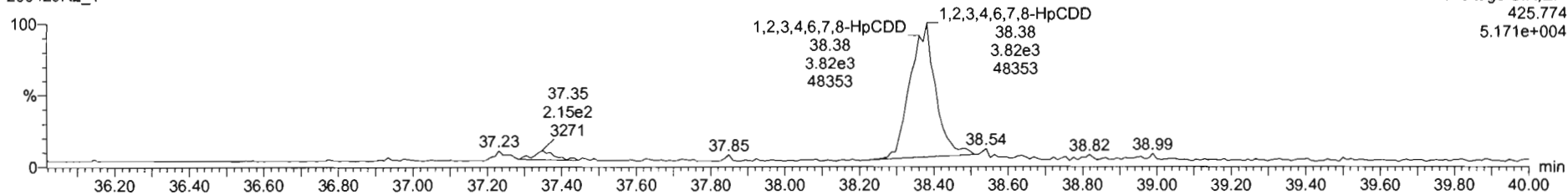
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5.287e+004

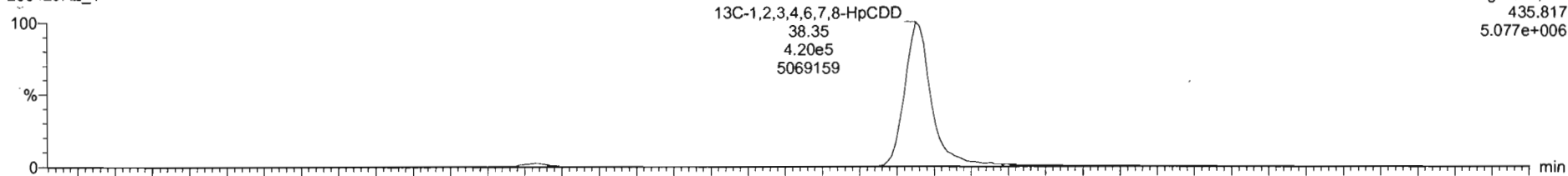
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5.171e+004

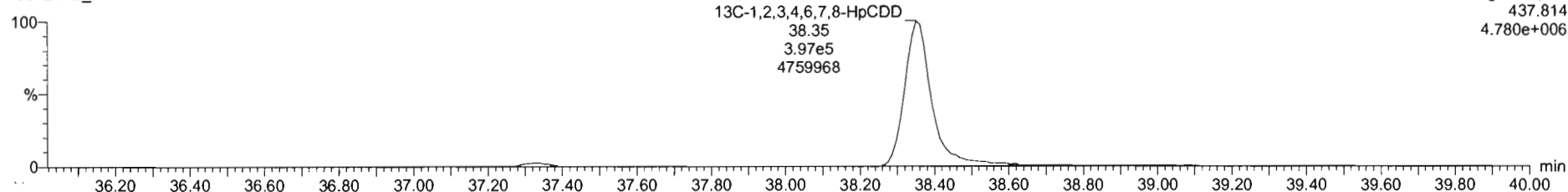
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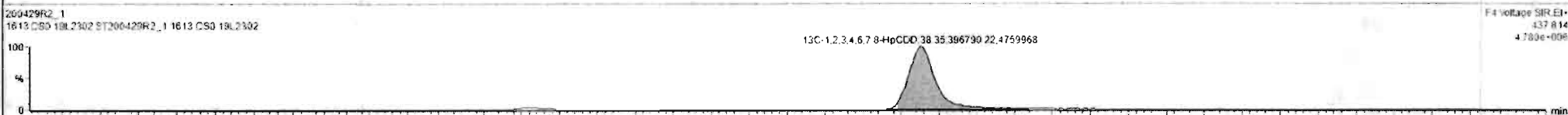
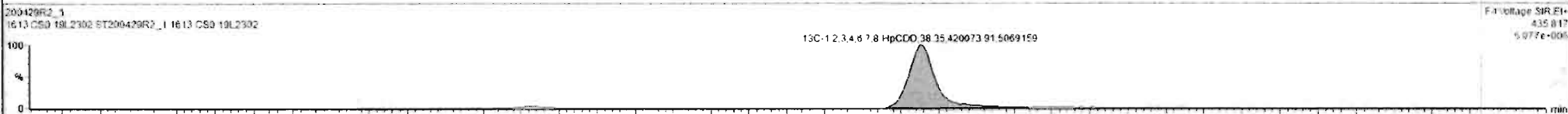
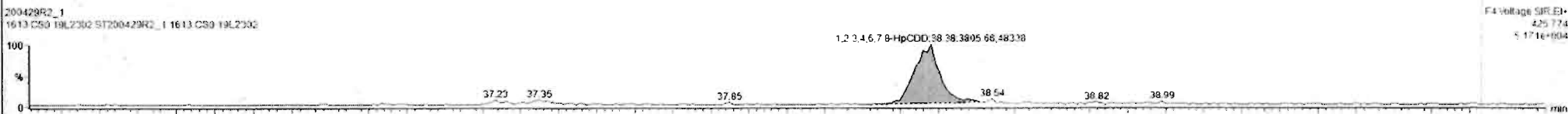
F4:Voltage SIR,EI+
435.817
5.077e+006

200429R2_1



F4:Voltage SIR,EI+
437.814
4.780e+006

#	Name	RT	RA	y/h	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,6-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.6491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1694e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0117e6	1.250	-14.6	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	38.38	1.554	NO	7.9501e3	2.1666e5	1.250	-13.5	8.93	0.898	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2150e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0627
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9812e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



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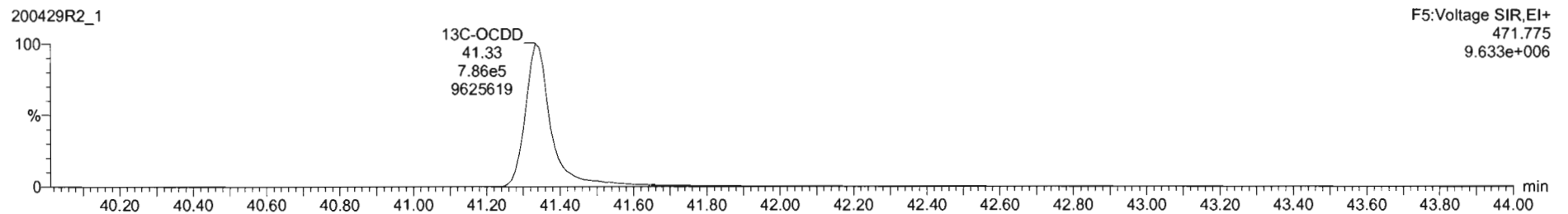
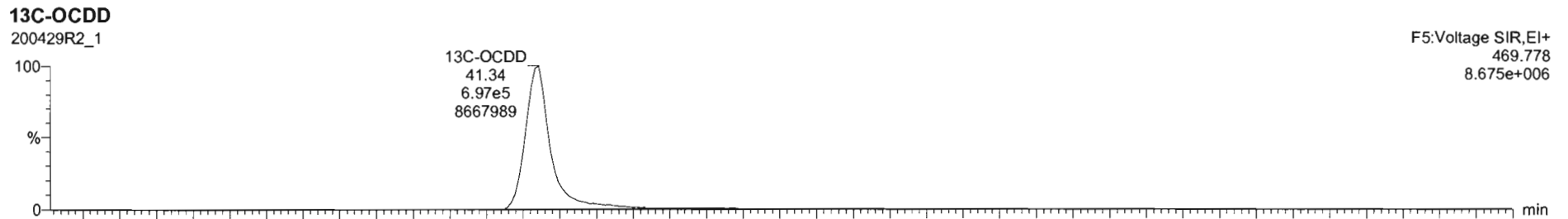
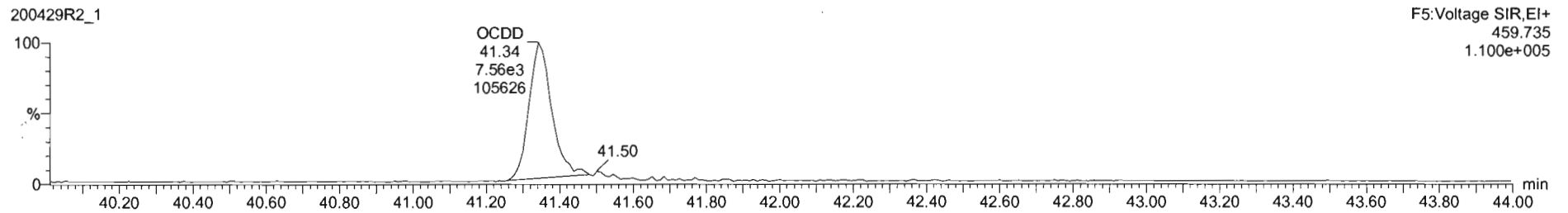
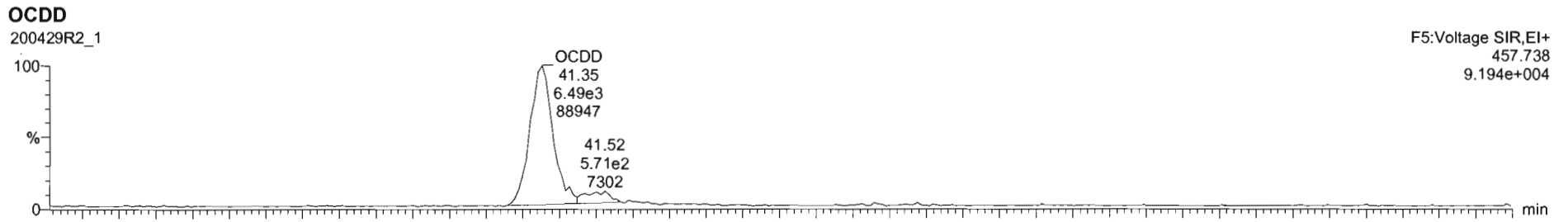
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7:57 AM

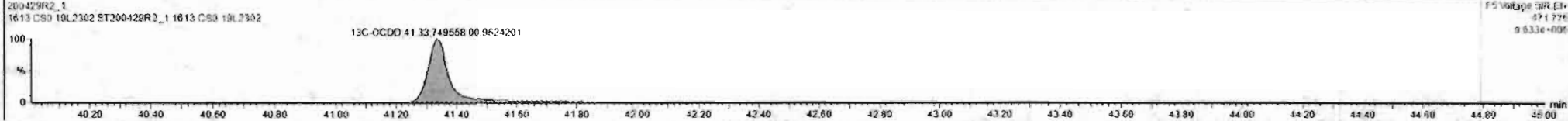
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#	Name	RT	RA	Yn	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0407
2	1,2,3,7,8-PeCDD	31.12	0.587	NO	1.2678e4	1.1845e6	1.250	-9.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.9568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1906e4	1.1604e6	1.250	-10.2	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.5	7.57	0.933	0.0767
8	2,3,7,8-TCDF	26.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.96	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.455	NO	2.0204e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.234	NO	1.3454e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.927	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.967	NO	8.5552e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6218e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.862	0.0575



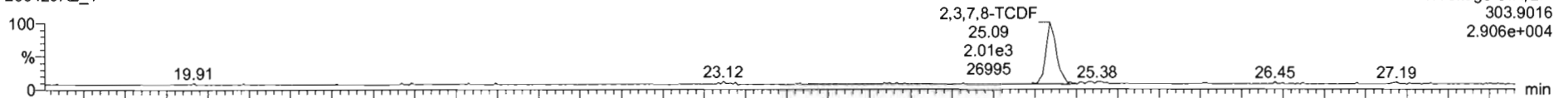
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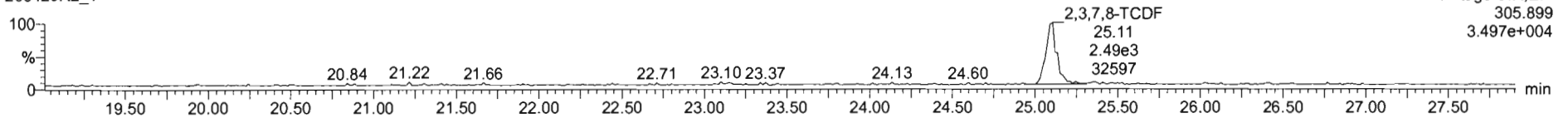
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2,3,7,8-TCDF

200429R2_1

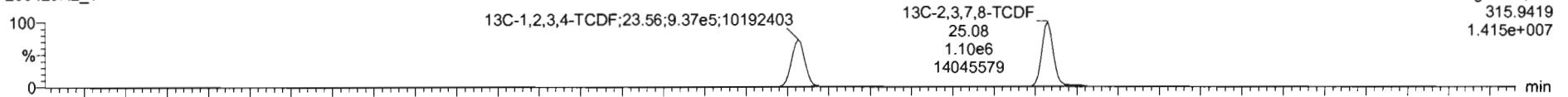


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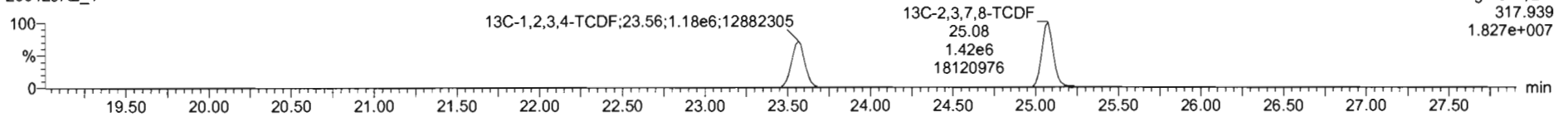


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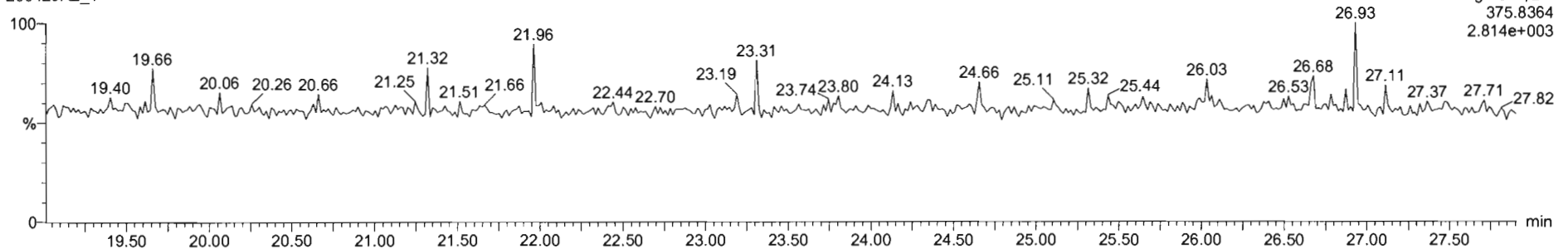


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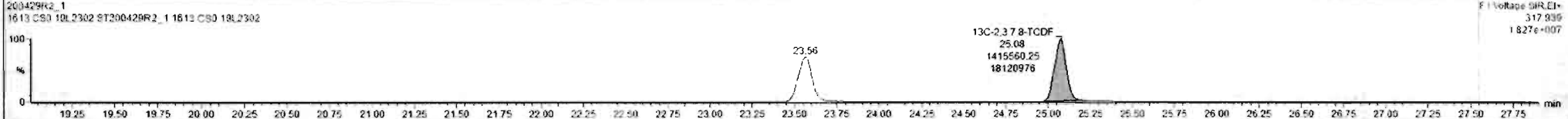
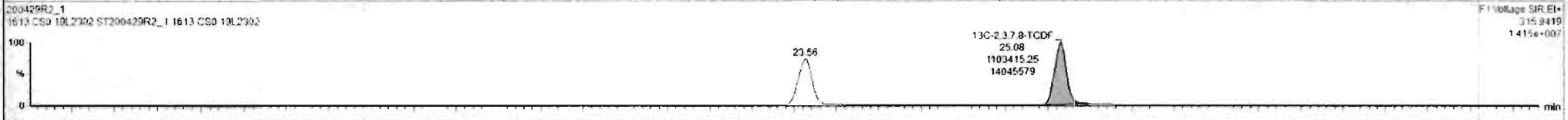
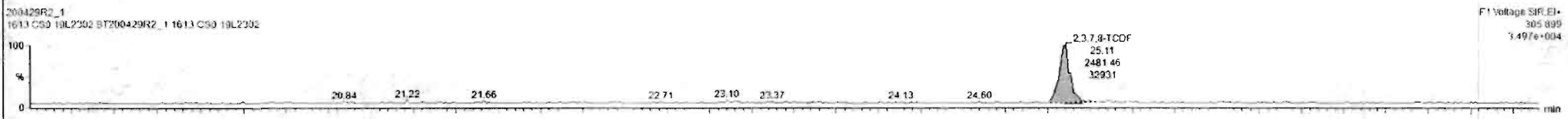
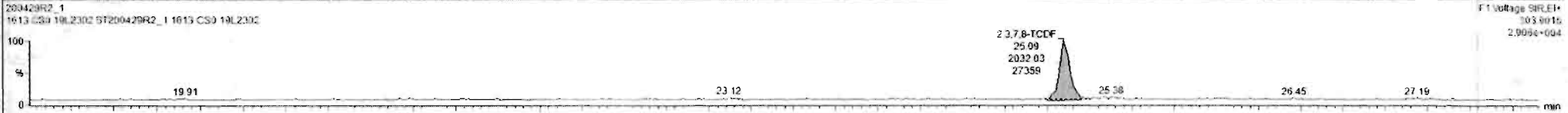


DPE1

200429R2_1



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDF	25.07	0.813	NO	3.6607e3	1.7032e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.13	0.587	NO	1.2578e4	1.1545e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.36	1.084	NO	7.001e3	3.1686e5	1.250	-13.5	6.93	0.696	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.0	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5135e3	2.5190e6	0.250	-8.9	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.5	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.60	1.488	NO	2.0204e4	1.6427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.3	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.2494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9055e5	1.250	-11.0	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	3.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0557
16	1,2,3,4,7,8,9-HpCDF	36.95	0.973	NO	6.8018e3	5.9612e5	1.250	-11.4	6.82	1.01	0.0879
17	OCDF	41.52	0.836	NO	1.4068e4	1.6198e6	2.500	-13.4	7.16	0.802	0.0575



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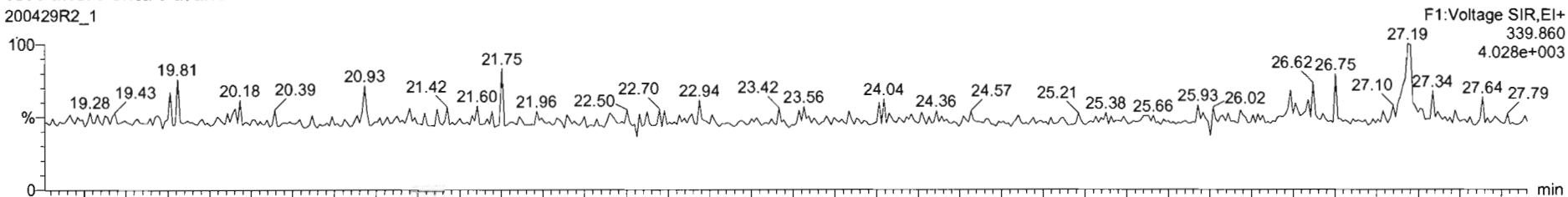
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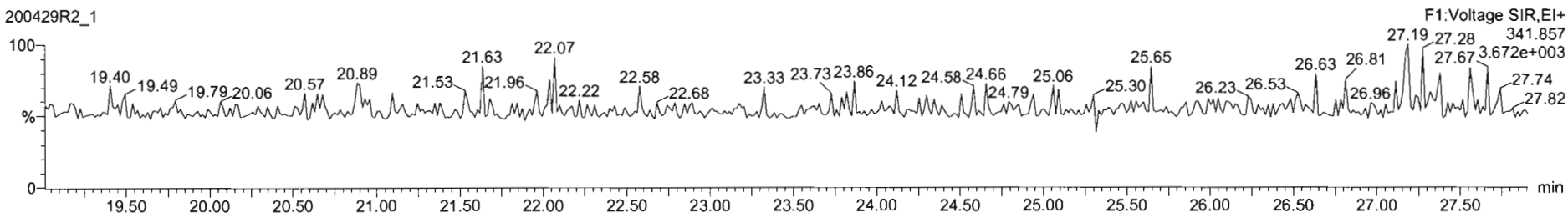
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1st Func. Penta-Furans

200429R2_1

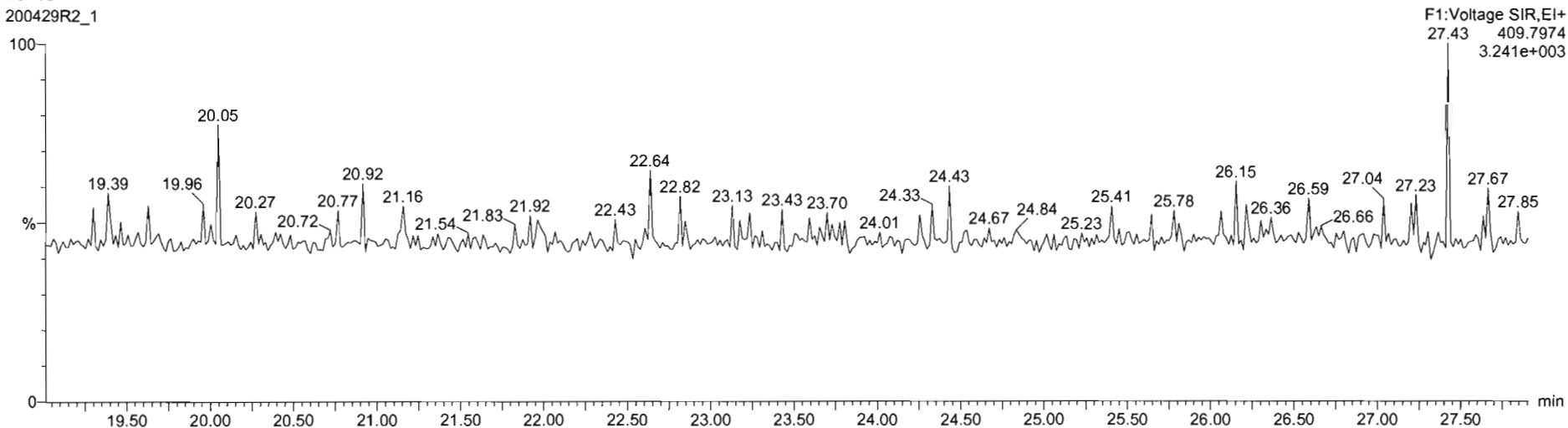


200429R2_1



DPE6

200429R2_1

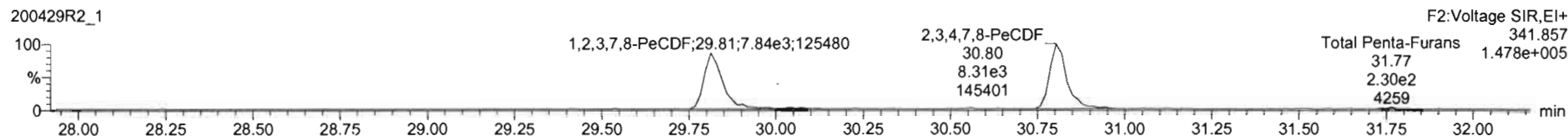
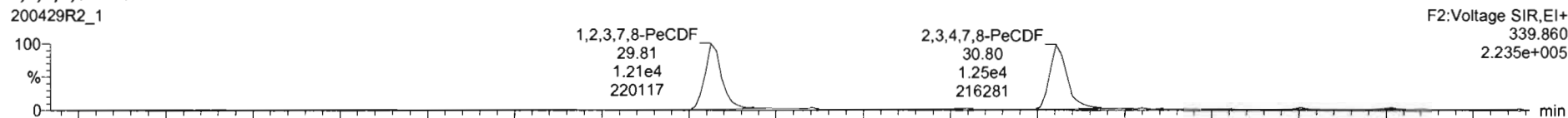


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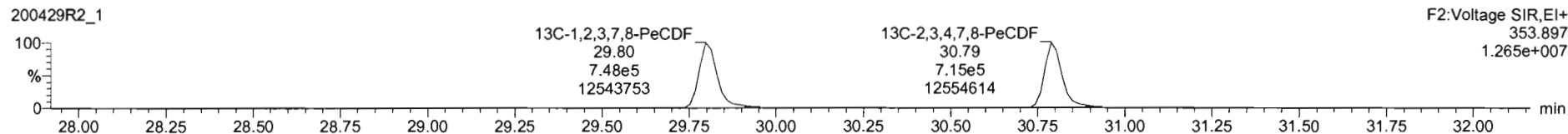
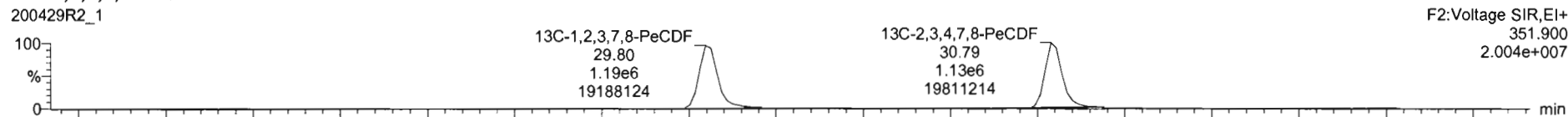
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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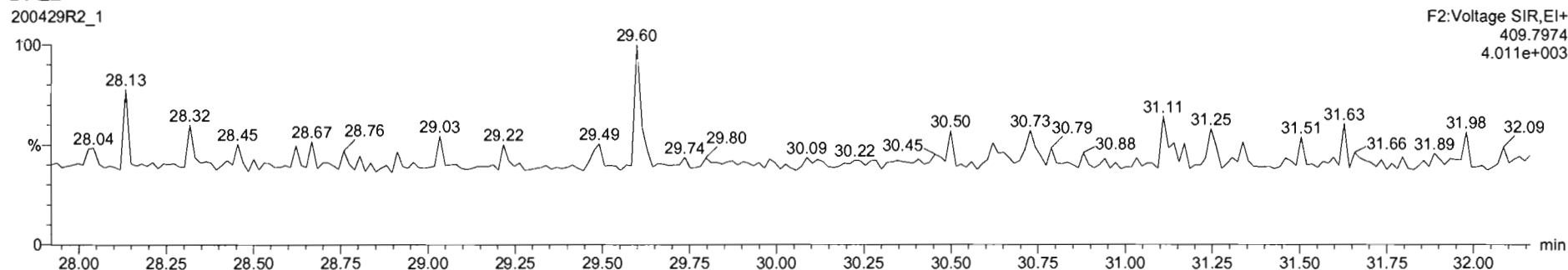
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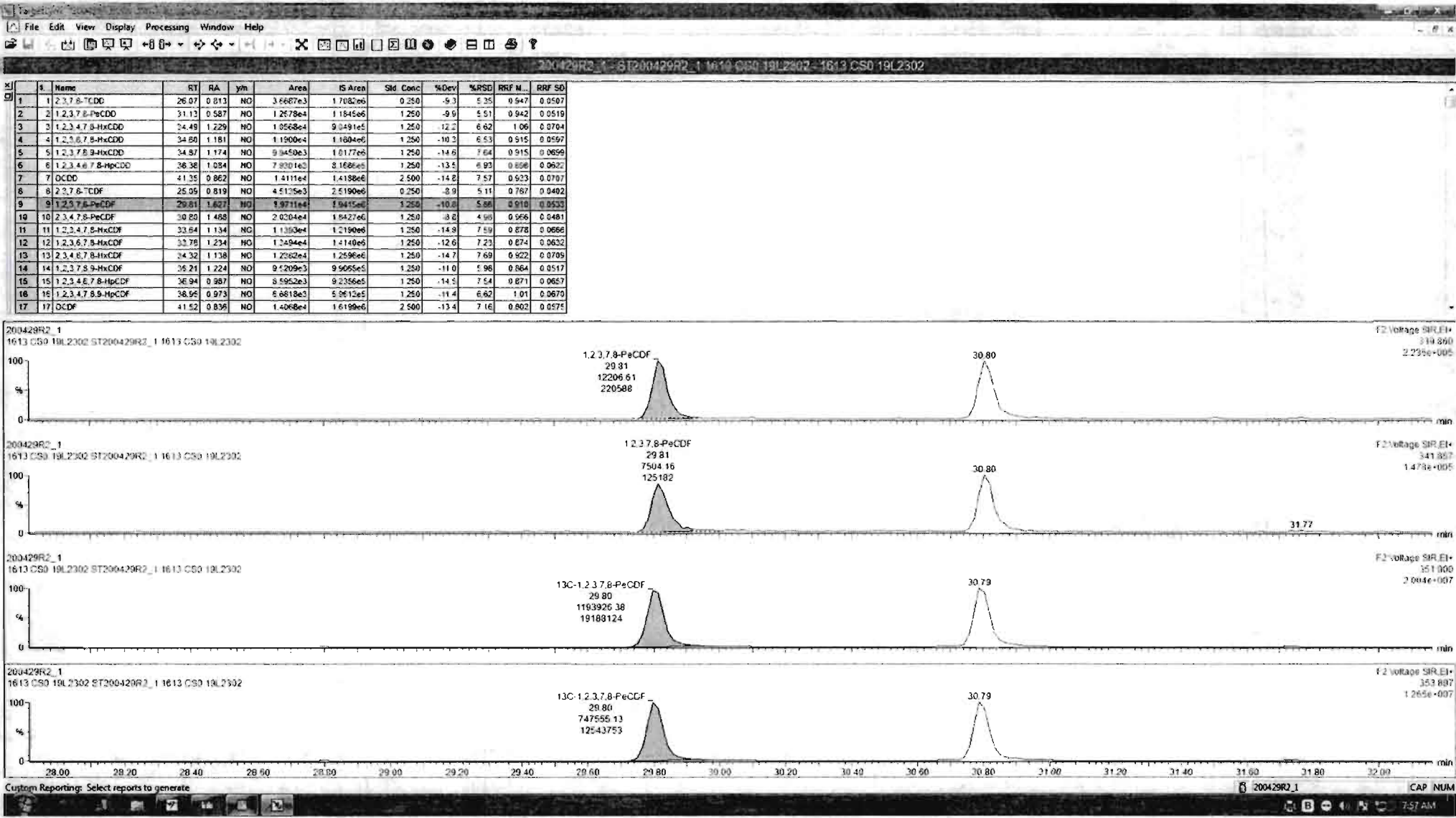


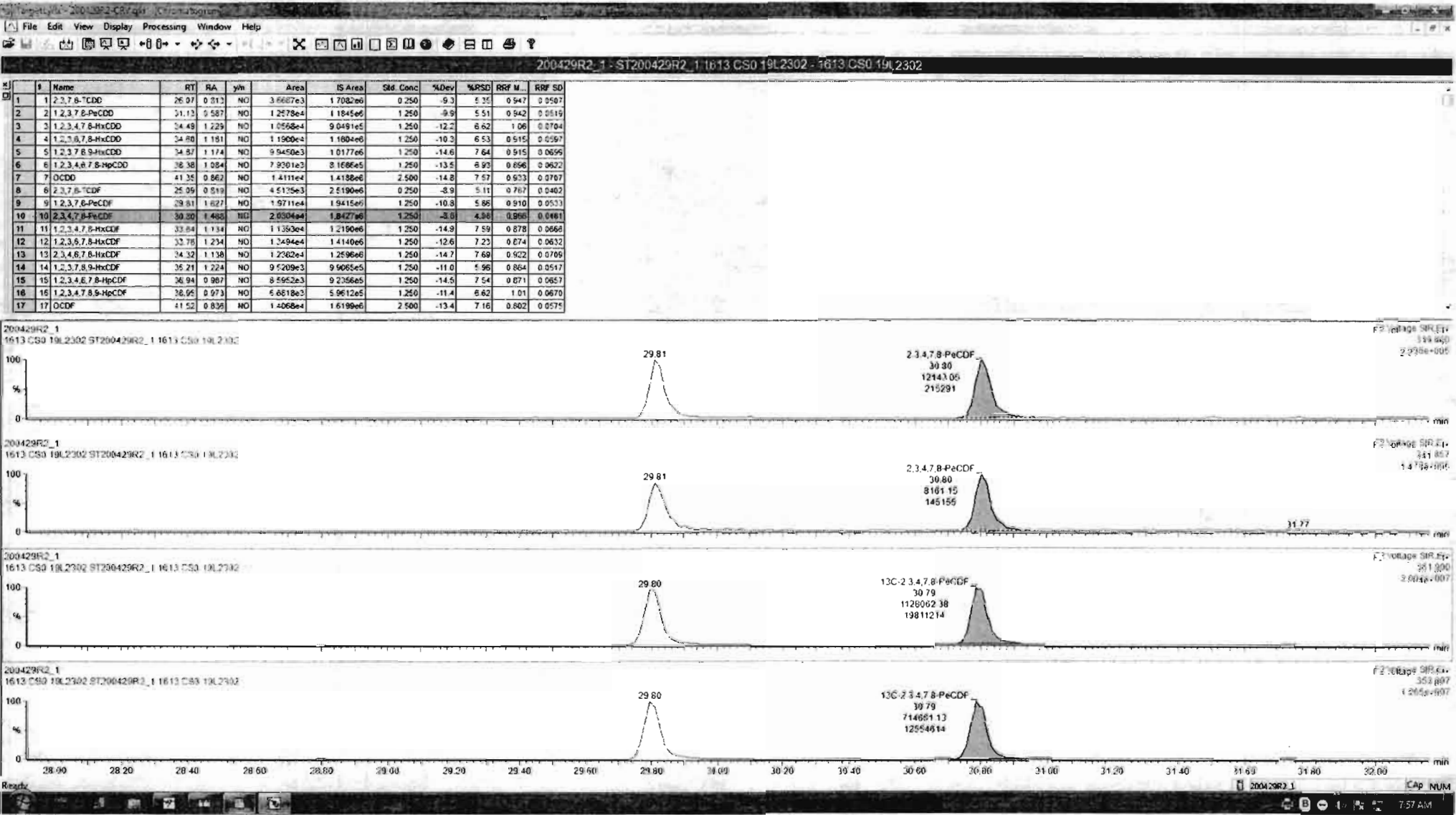
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DPE2







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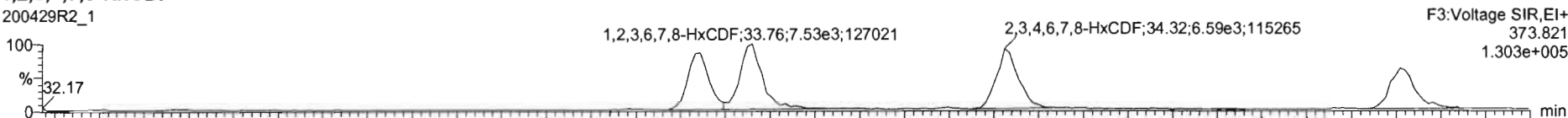
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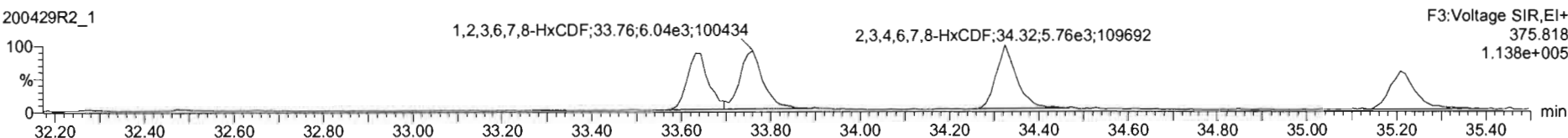
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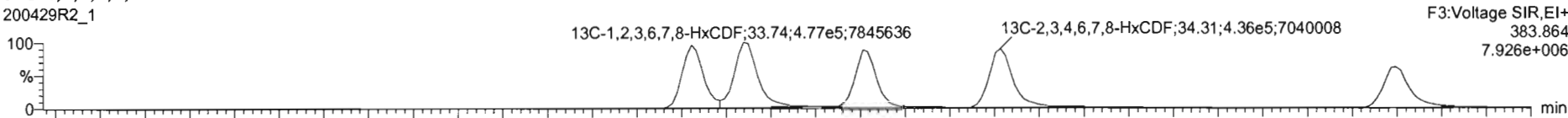


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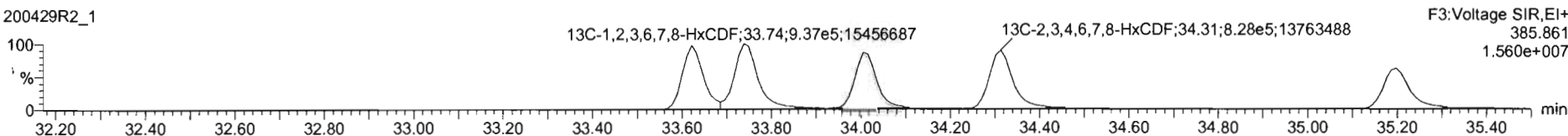


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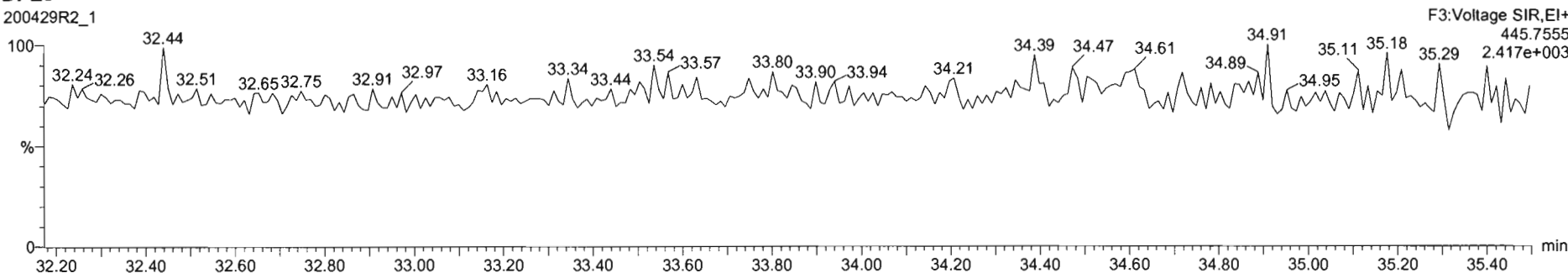


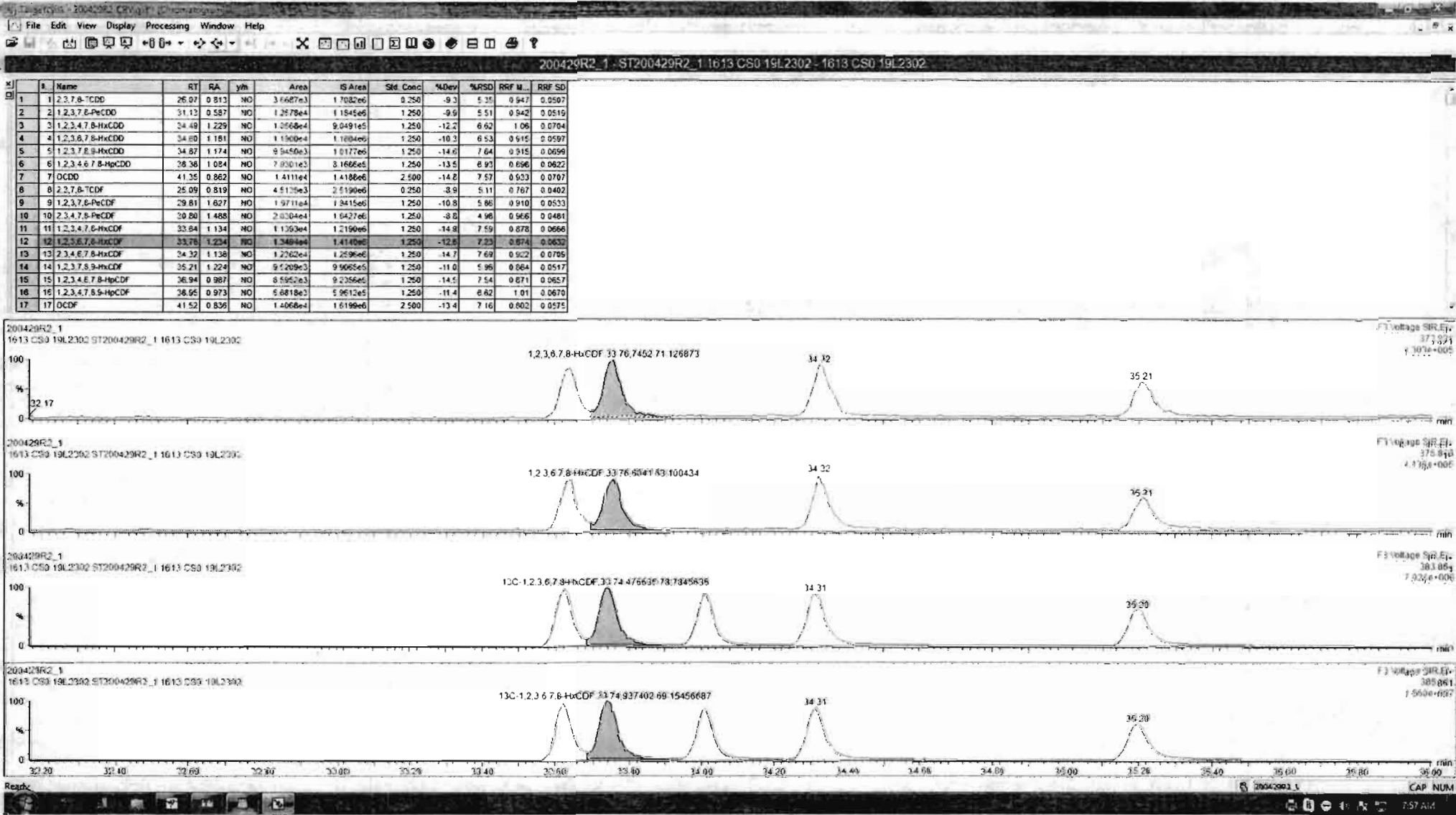
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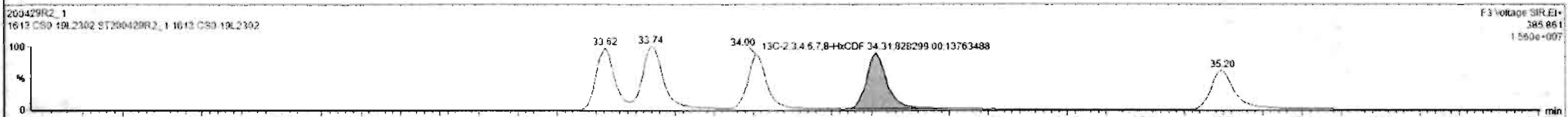
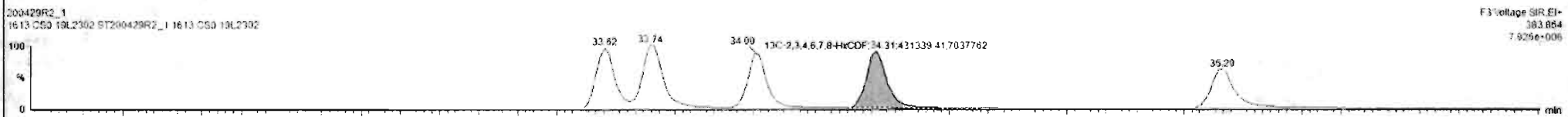
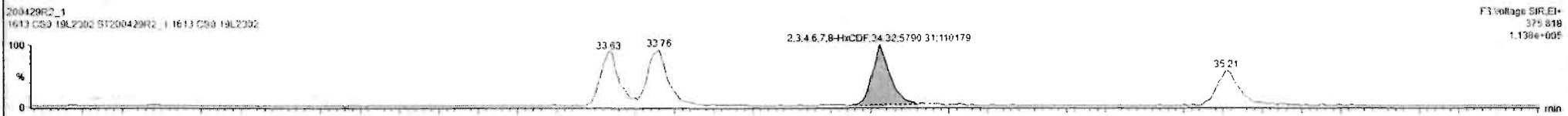
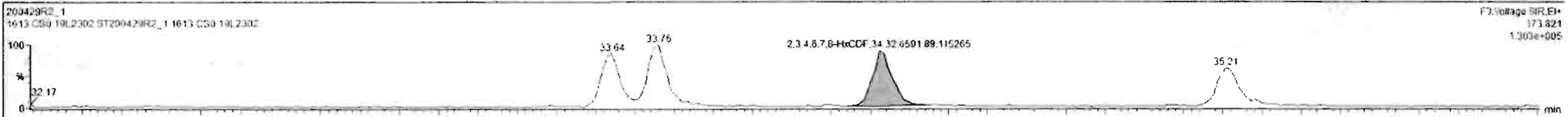
DPE3

200429R2_1





Sl	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	28.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2478e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.57	1.174	NO	9.5450e3	1.0177e6	1.250	-14.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.3001e3	8.1686e5	1.250	-13.5	6.93	0.656	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.923	0.0787
8	2,2,7,8-TCDF	25.05	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.88	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.9427e6	1.250	-8.2	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.70	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.130	NO	1.2232e4	1.2590e6	1.250	-14.7	7.68	0.922	0.0766
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.964	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	DCDF	41.52	0.836	NO	1.4068e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575

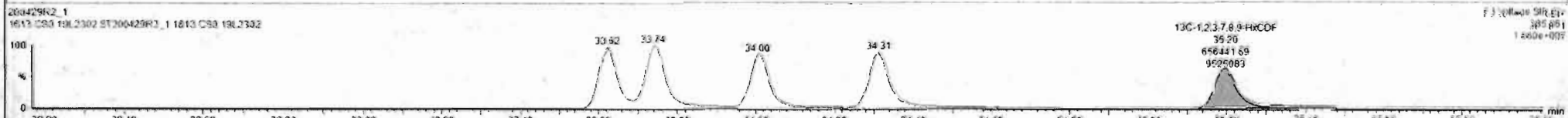
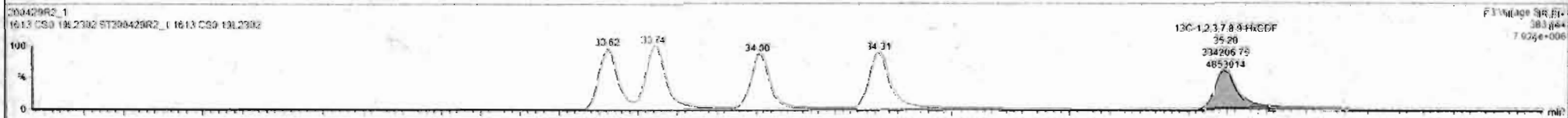


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200429R2_1 CAP NUM

7:58 AM

#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	6.30	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2178e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1688e6	1.250	-10.3	6.53	0.515	0.0597
5	1,2,3,7,8-HxCDD	34.87	1.174	NO	9.5450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.9016e3	3.1686e5	1.250	-13.5	6.92	0.696	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.623	0.0707
8	1,2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.4196e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,6-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0044e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.37	1.138	NO	1.2062e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.704	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.967	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.82	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4066e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



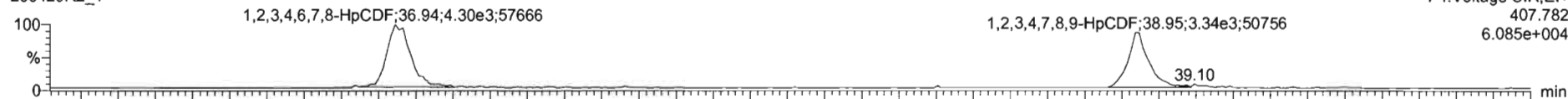
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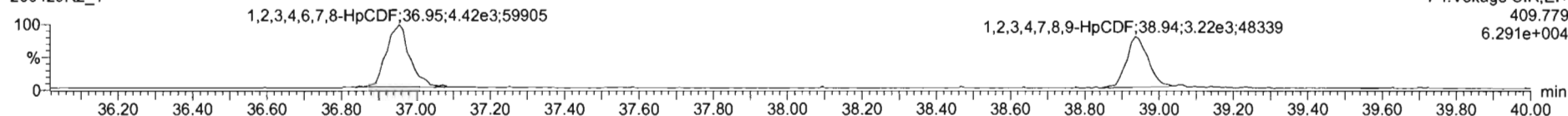
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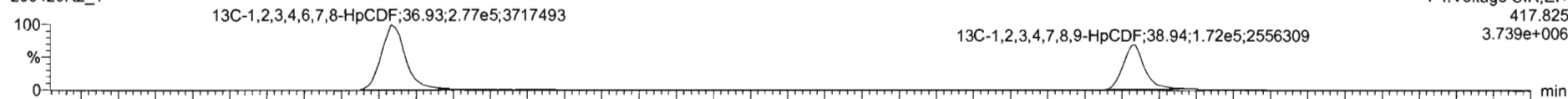


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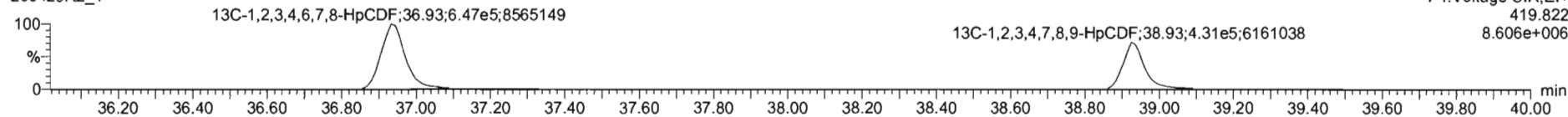


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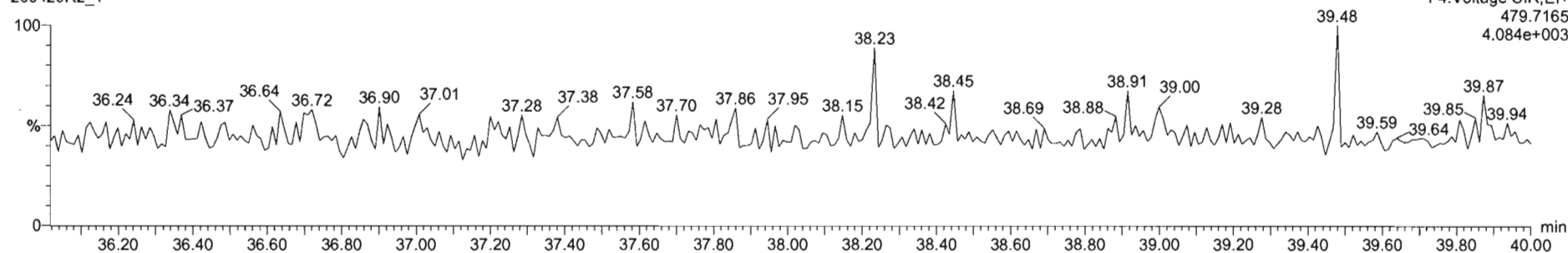


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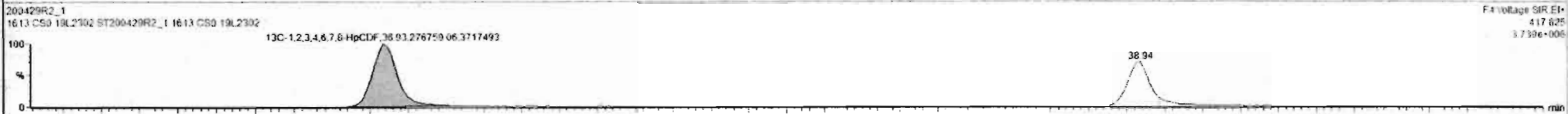
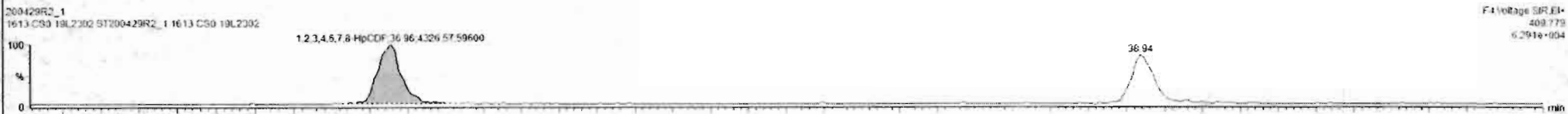
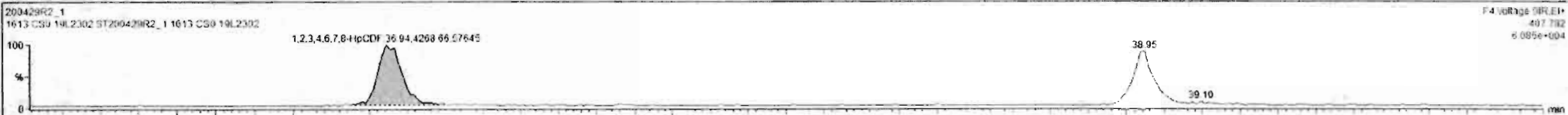


DPE4

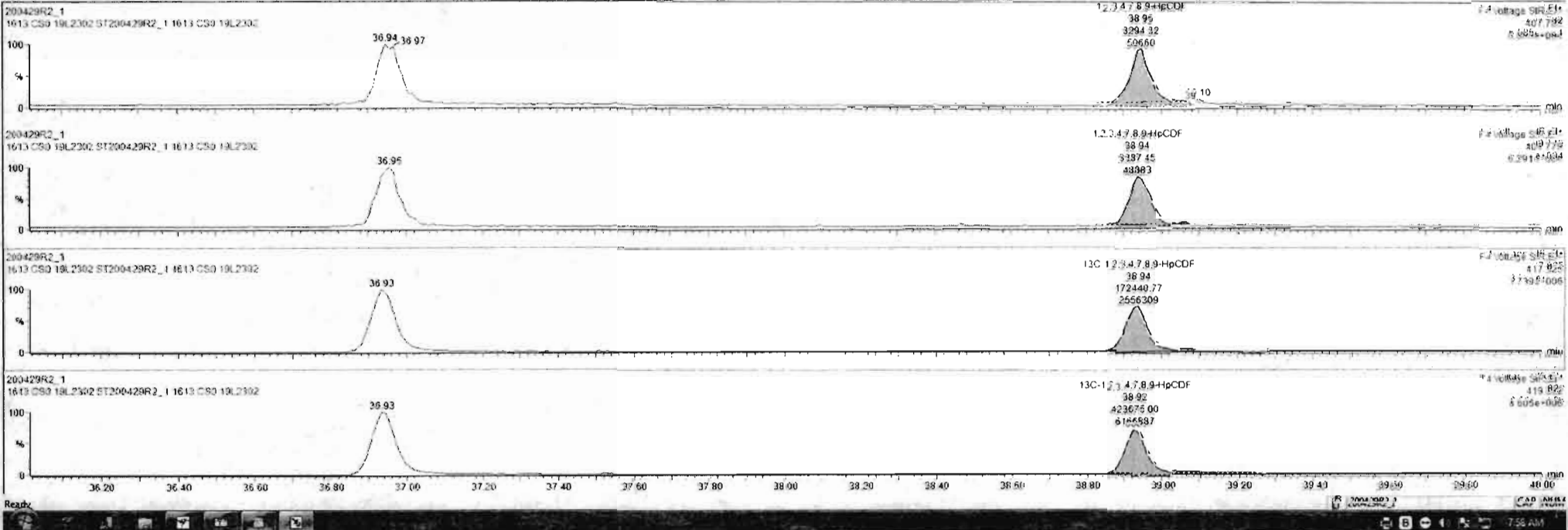
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#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6667e3	1.7087e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2678e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.9491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1696e5	1.250	-13.5	6.93	0.656	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	1,2,3,7,8-TCDF	26.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.80	1.468	NO	2.9304e4	1.8427e6	1.250	-8.2	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.68	0.922	0.0789
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.984	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5862e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	36.95	0.873	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



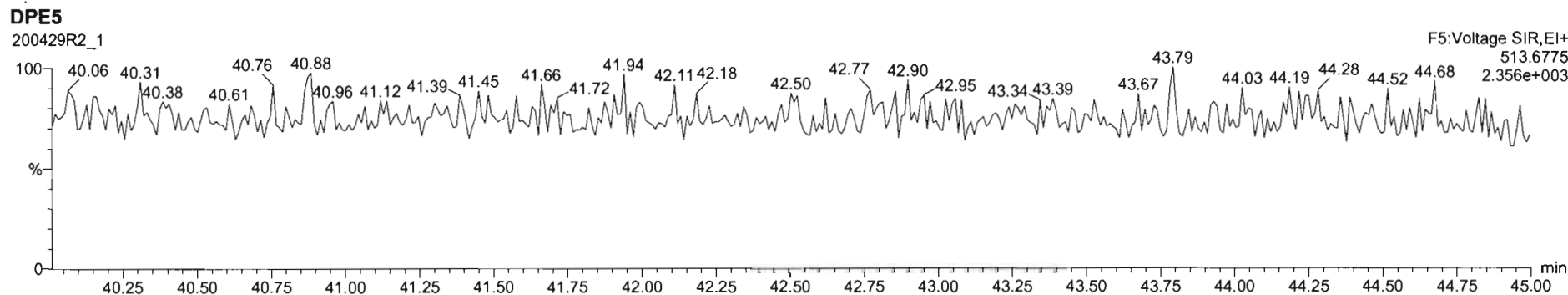
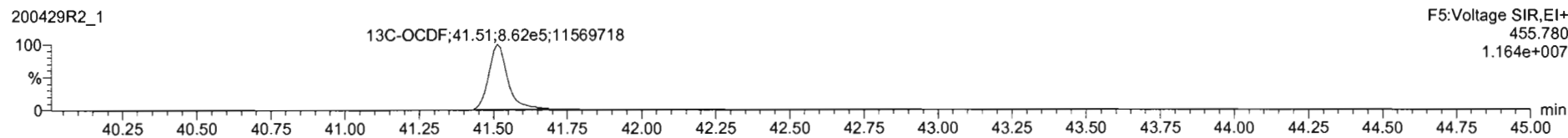
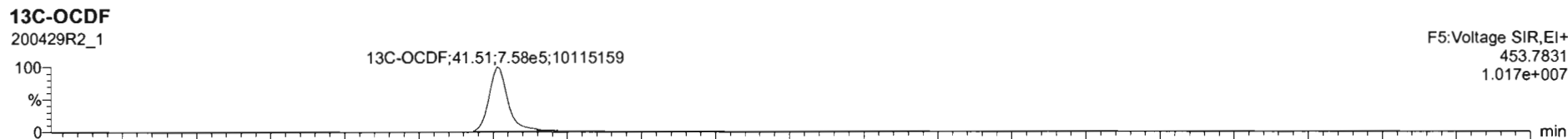
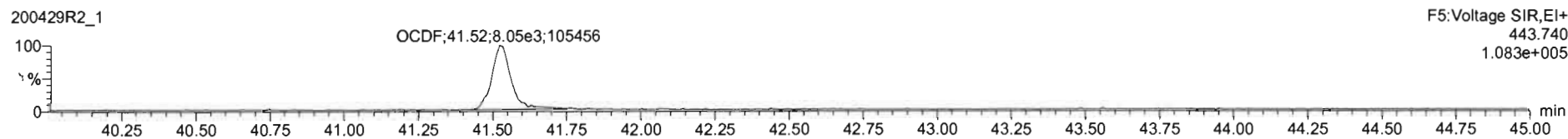
#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	9.3	6.35	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.5	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.161	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.515	0.0592
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.36	1.054	NO	7.9301e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0623
7	OCDD	41.35	0.862	NO	1.4111e4	1.4198e6	2.500	-14.0	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.458	NO	2.0204e4	1.9427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.674	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.6065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8019e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.826	NO	1.4066e4	1.6199e6	2.500	-13.4	7.10	0.802	0.0575



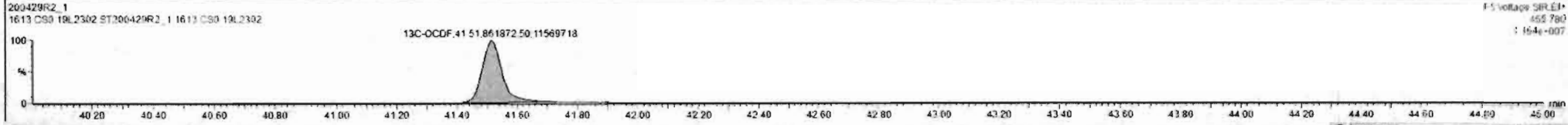
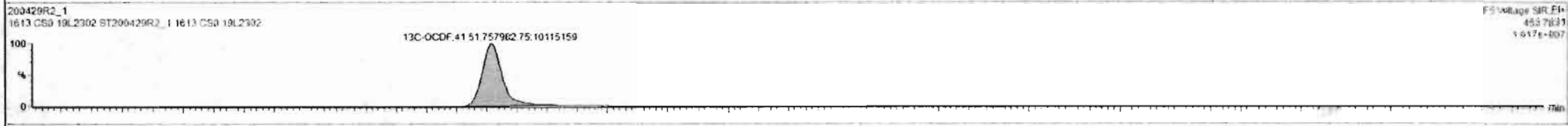
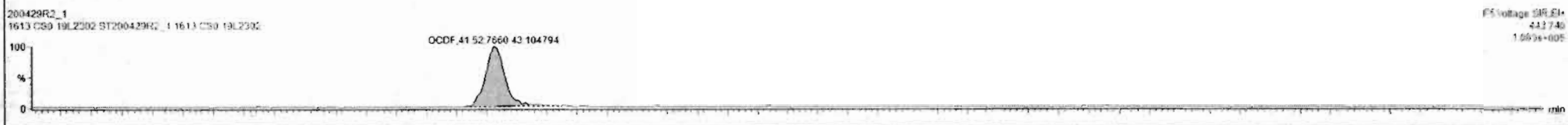
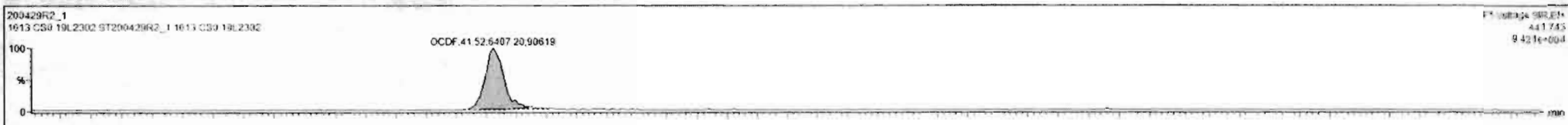
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



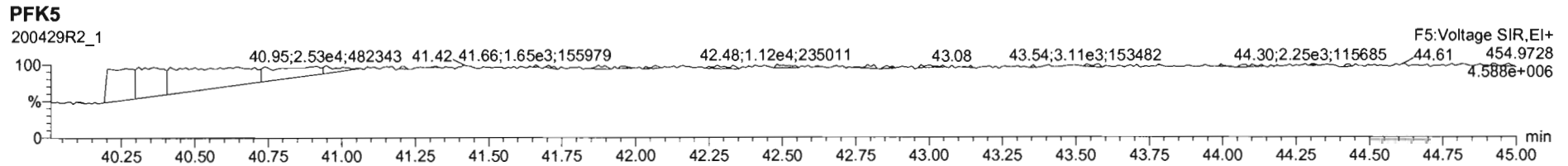
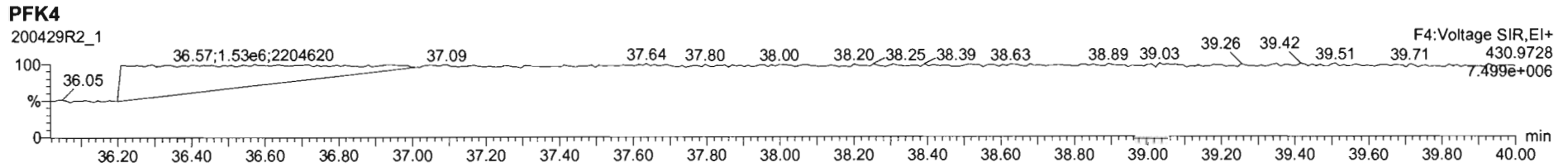
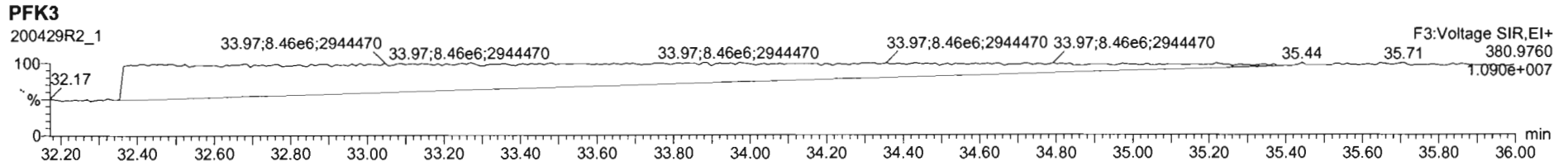
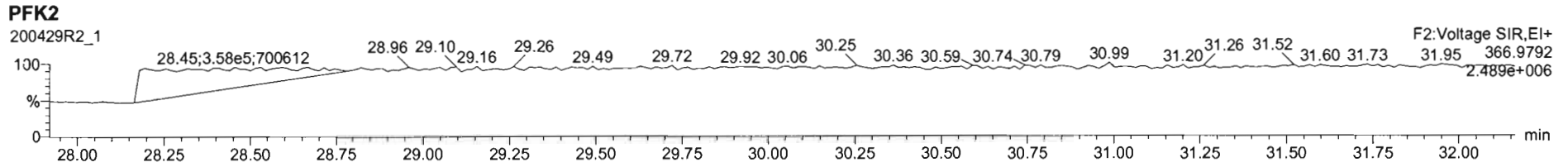
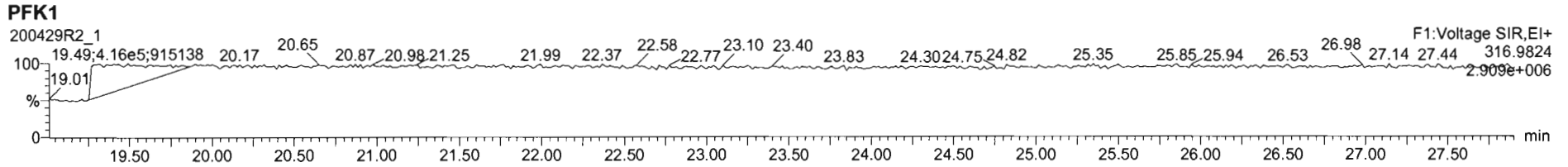
#	Name	RT	RA	Yln	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7032e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	9.9	5.51	0.942	0.0516
3	1,2,3,6,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.40	1.191	NO	1.1900e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.094	NO	7.9201e3	3.1686e5	1.250	-13.5	8.97	0.856	0.0622
7	OCDD	41.35	0.962	NO	1.4111e4	1.4188e6	2.500	-14.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.95	0.919	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.00	1.488	NO	2.004e4	1.8427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9612e5	1.250	-11.4	6.67	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4065e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



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Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



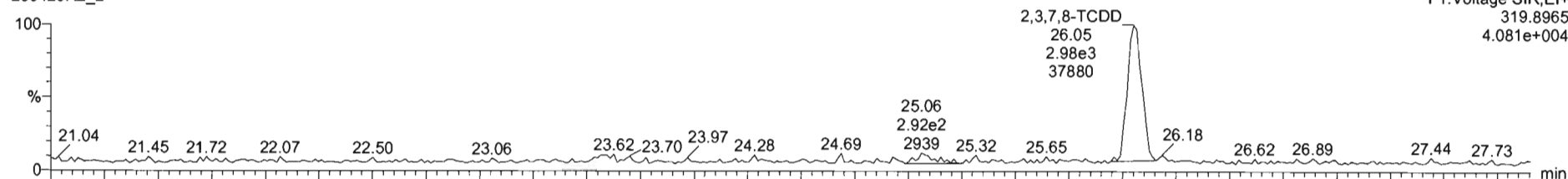
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

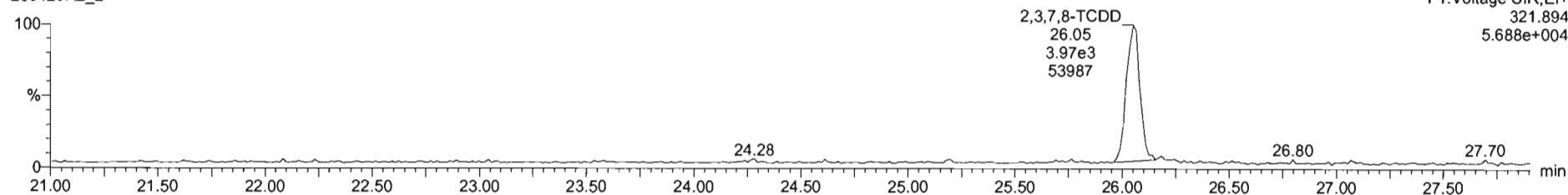
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2,3,7,8-TCDD

200429R2_2

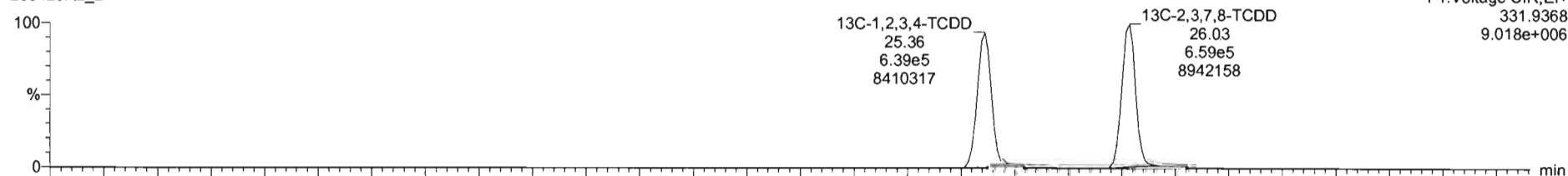


200429R2_2

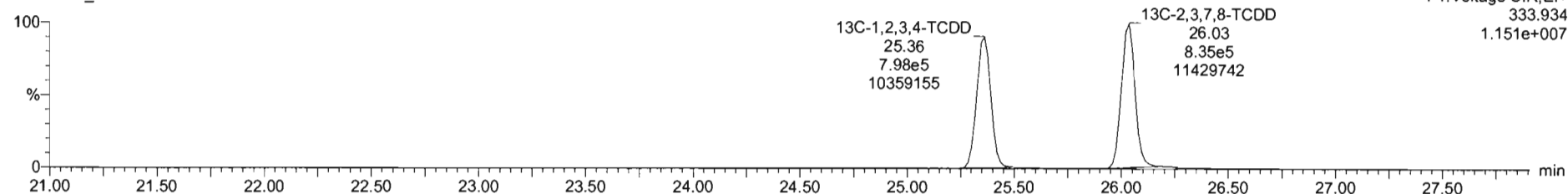


13C-2,3,7,8-TCDD

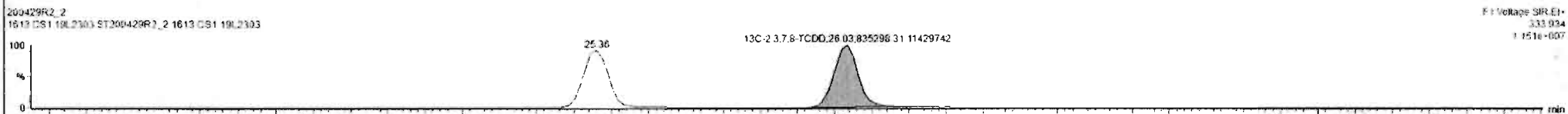
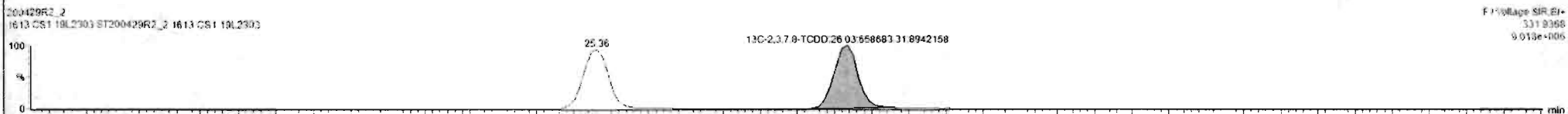
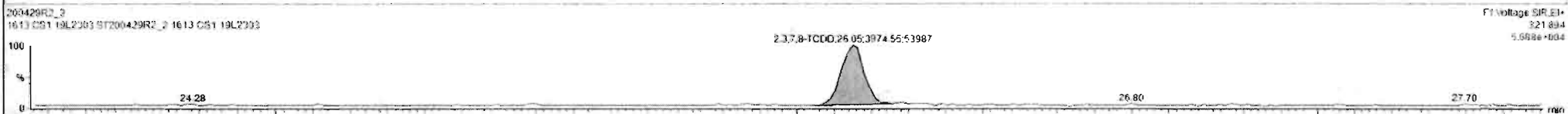
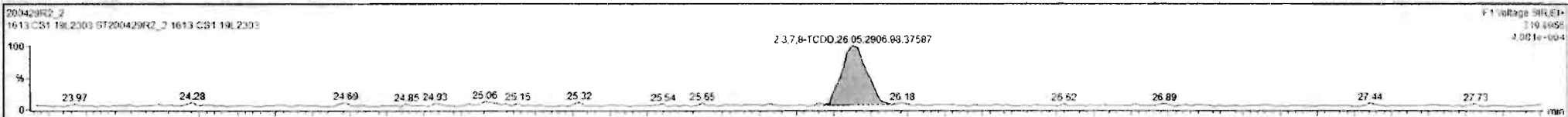
200429R2_2



200429R2_2



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.05	0.731	NO	6.8015e3	1.4946e6	6.500	-2.8	5.35	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8509e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.9692e5	2.500	-0.2	6.93	0.696	0.0602
7	OCDD	41.25	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0767
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2156e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8524e4	1.6515e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1032e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.183	NO	2.3827e4	1.0498e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	6.7735e5	2.500	-1.8	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4610e6	5.000	-2.4	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2_2

CAP NUM

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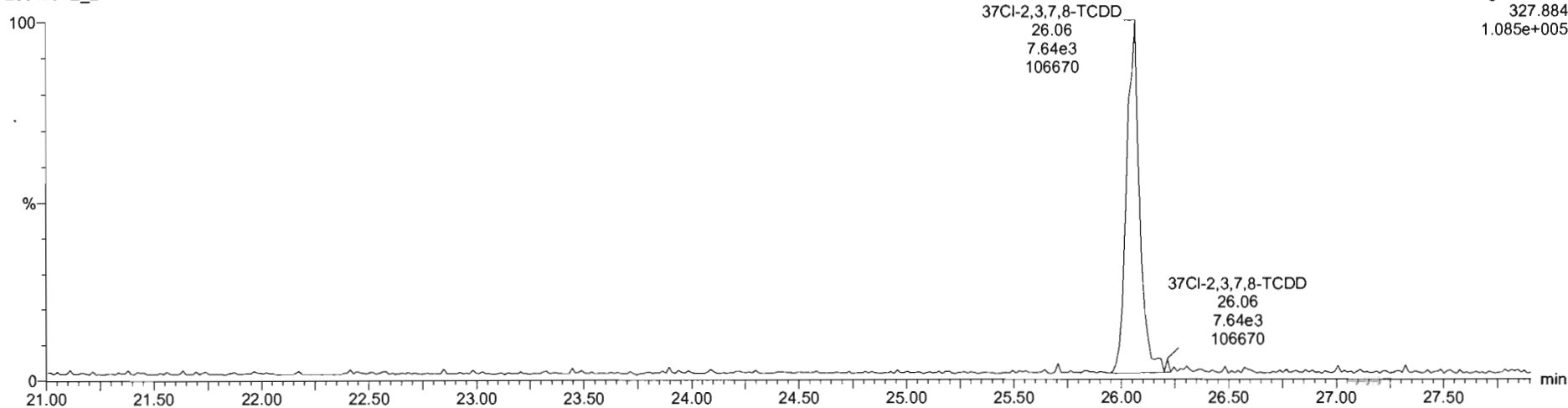
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_2, Date: 29-Apr-2020, Time: 14:15:04, ID: ST200429R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

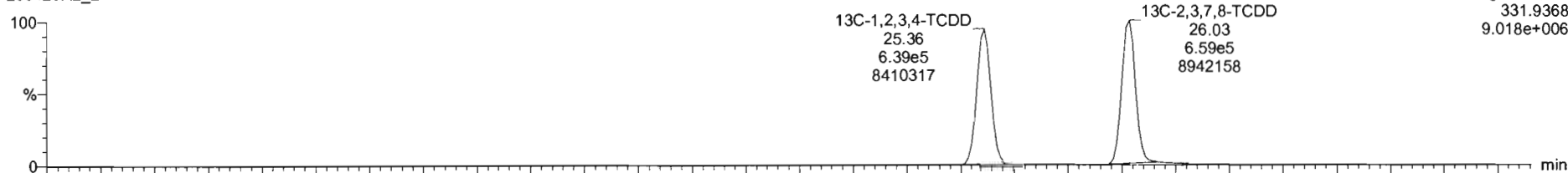
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200429R2_2

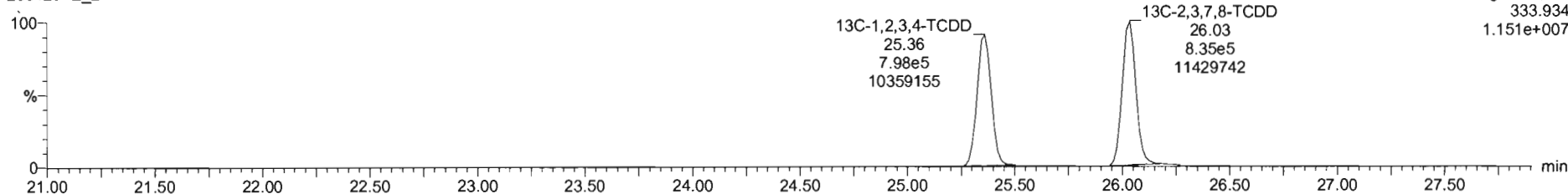


13C-1,2,3,4-TCDD

200429R2_2



200429R2_2



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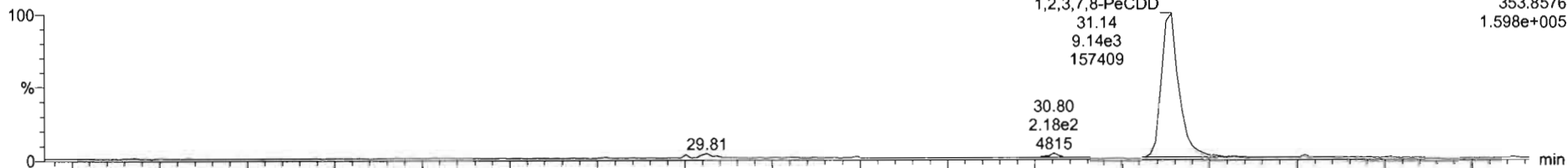
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

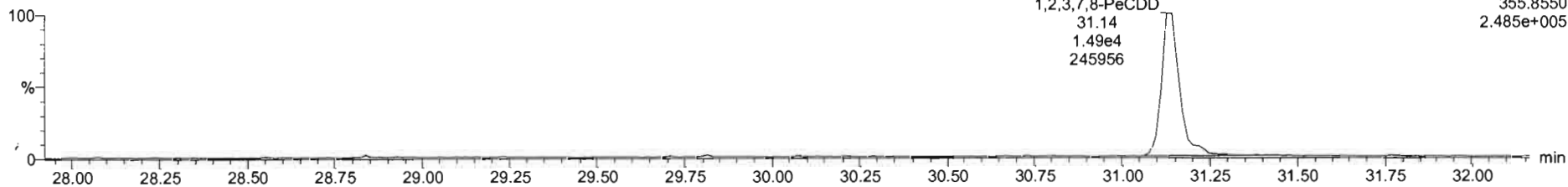
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1,2,3,7,8-PeCDD

200429R2_2

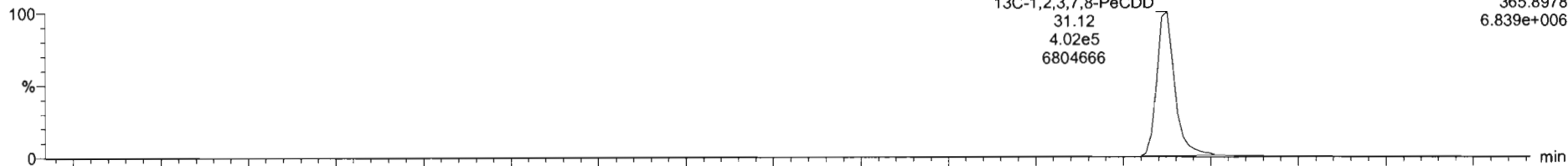


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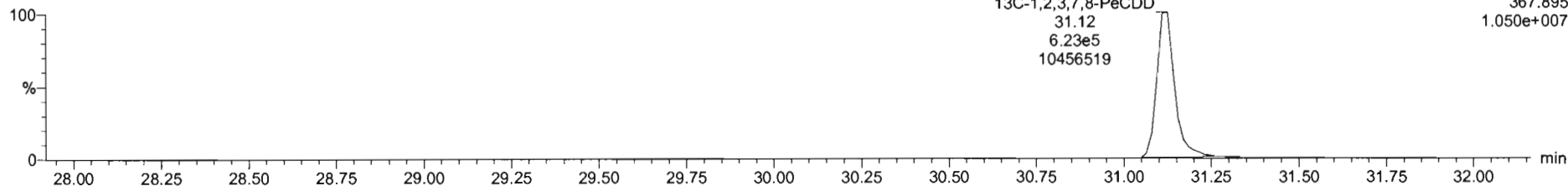


13C-1,2,3,7,8-PeCDD

200429R2_2



200429R2_2



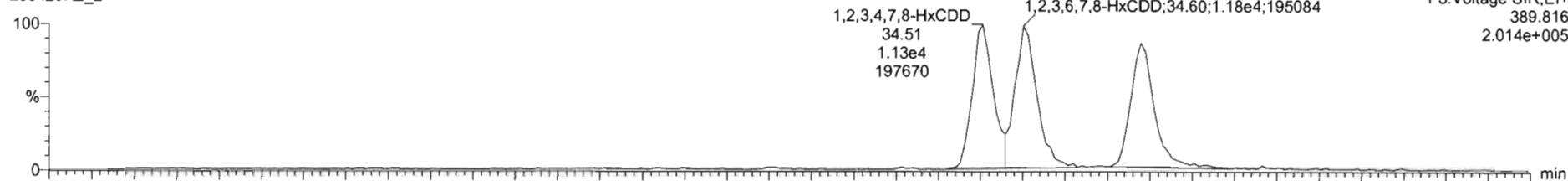
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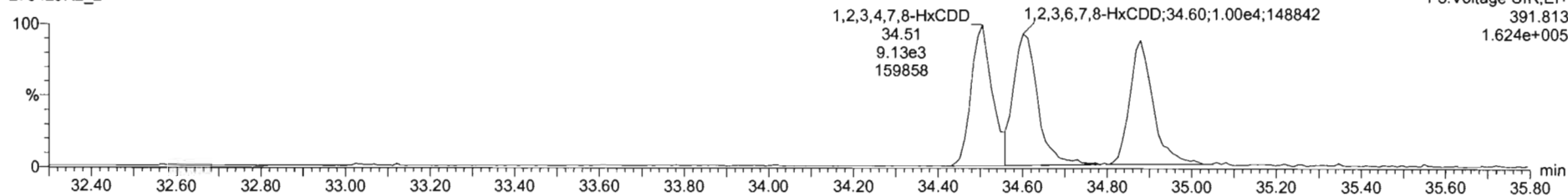
1,2,3,4,7,8-HxCDD

200429R2_2



F3:Voltage SIR,EI+
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2.014e+005

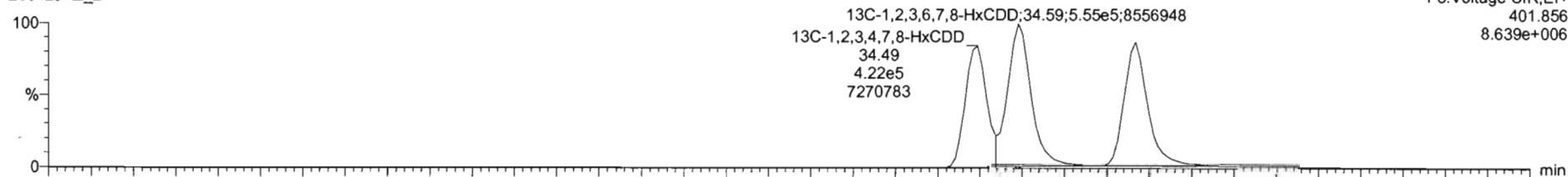
200429R2_2



F3:Voltage SIR,EI+
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1.624e+005

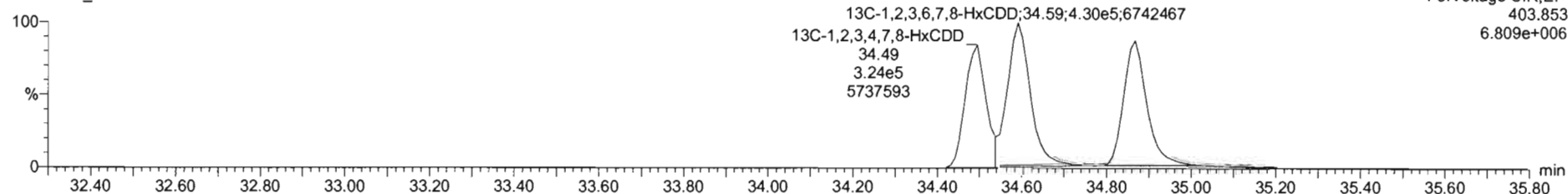
13C-1,2,3,4,7,8-HxCDD

200429R2_2

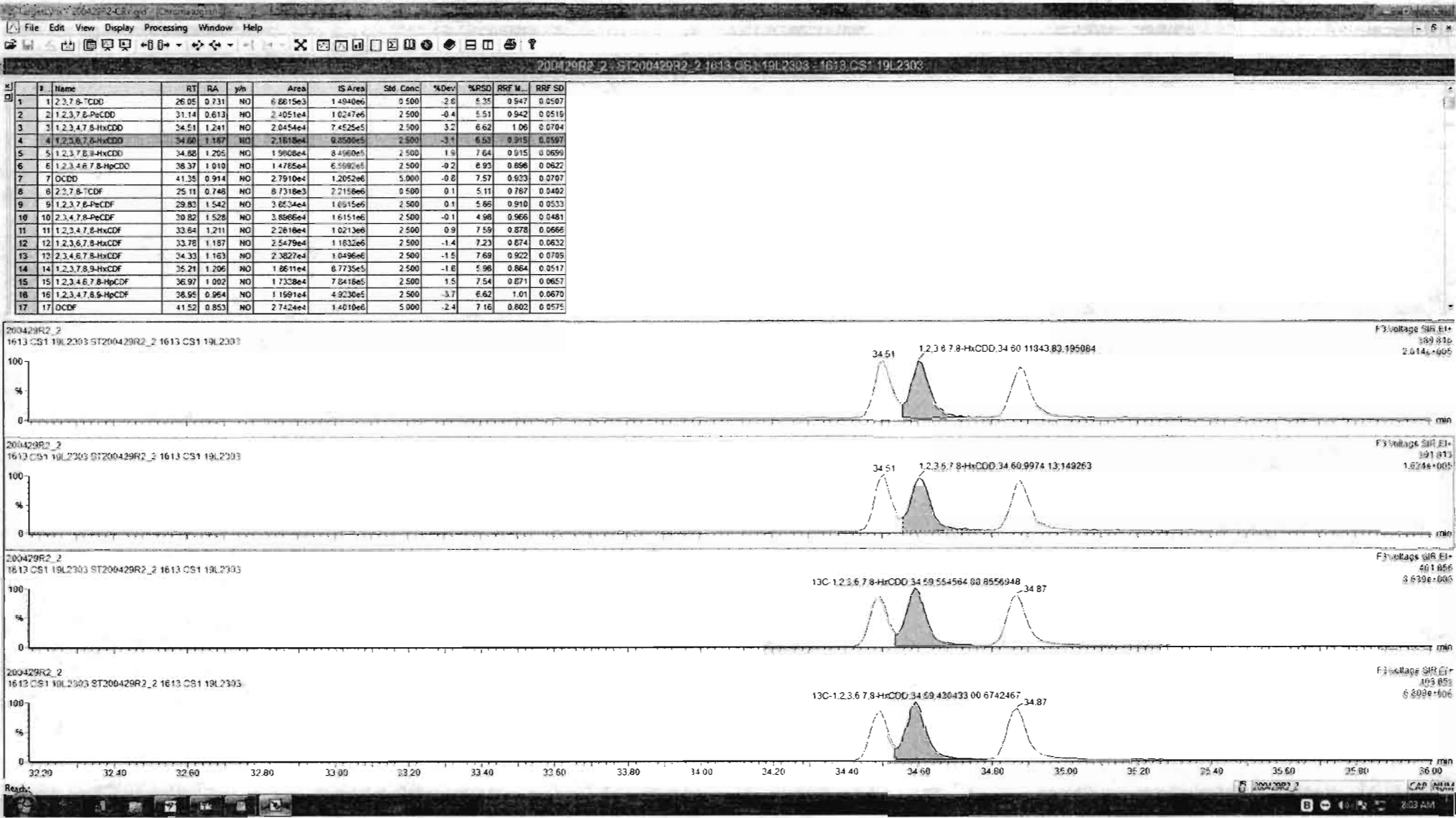


F3:Voltage SIR,EI+
401.856
8.639e+006

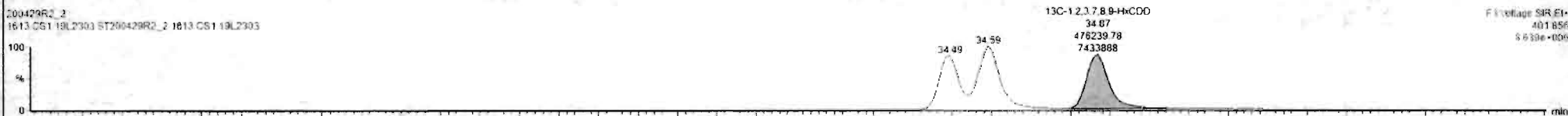
200429R2_2



F3:Voltage SIR,EI+
403.853
6.809e+006



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8815e3	1.4840e0	0.500	-2.6	5.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	-0.4	5.51	0.942	0.0510
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.187	NO	2.1610e4	9.9500e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.225	NO	1.9020e4	8.4500e5	2.500	1.9	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5982e5	2.500	-0.2	6.93	0.856	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2180e0	0.500	0.1	5.11	0.787	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.542	NO	3.8524e4	1.6915e6	2.500	0.1	5.86	0.910	0.0523
10	1,2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.674	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	1.8	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.95	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



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Dataset: Untitled

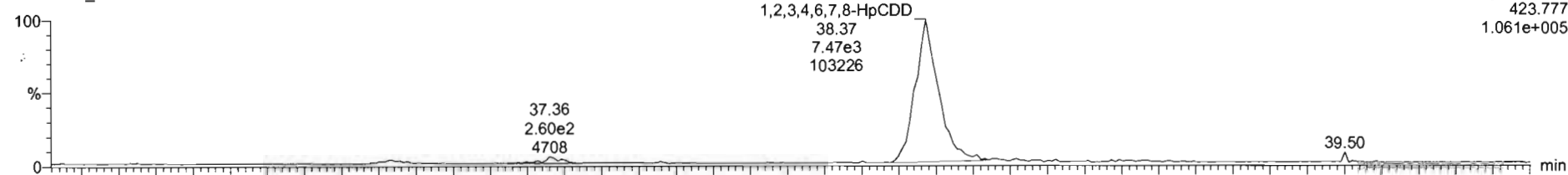
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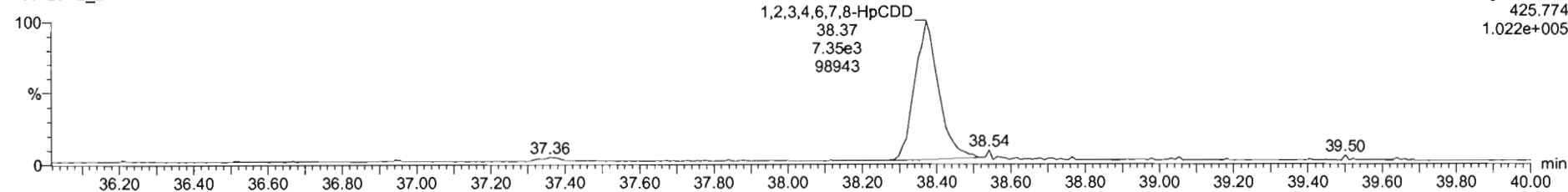
1,2,3,4,6,7,8-HpCDD

200429R2_2



F4:Voltage SIR,EI+
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1.061e+005

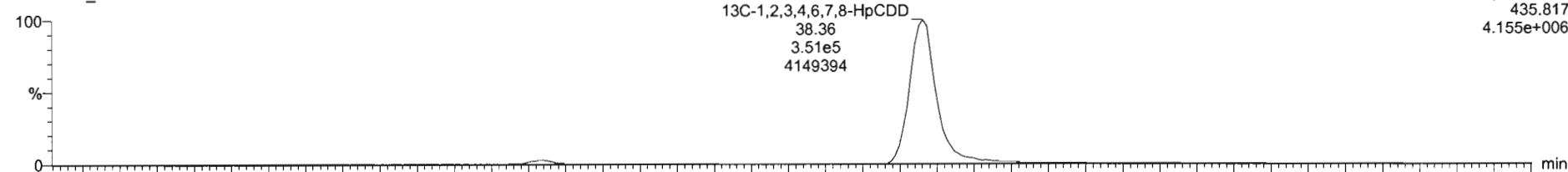
200429R2_2



F4:Voltage SIR,EI+
425.774
1.022e+005

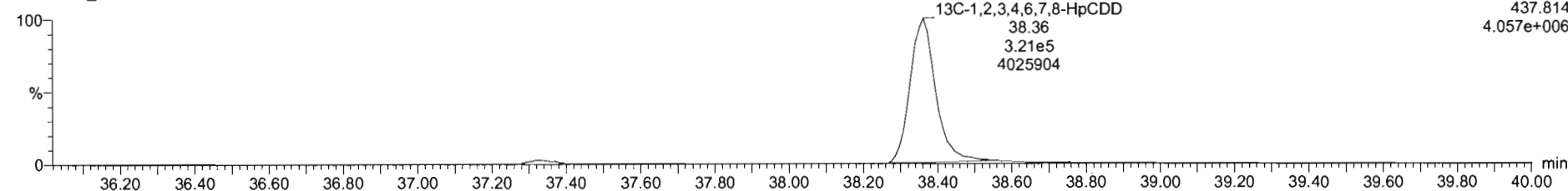
13C-1,2,3,4,6,7,8-HpCDD

200429R2_2



F4:Voltage SIR,EI+
435.817
4.155e+006

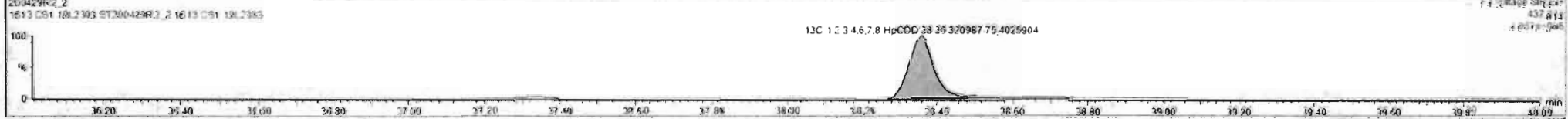
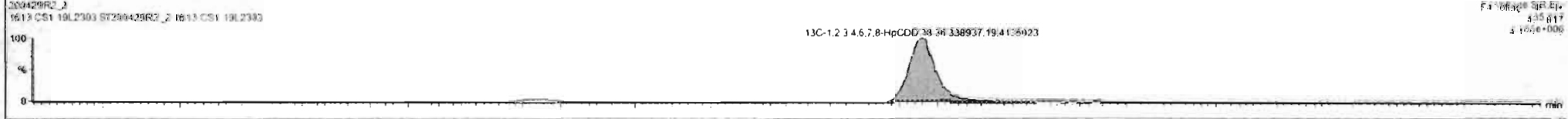
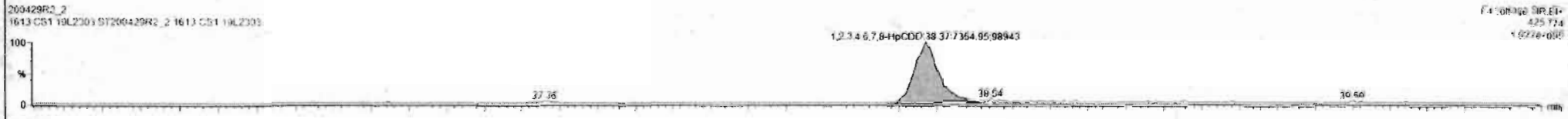
200429R2_2



F4:Voltage SIR,EI+
437.814
4.057e+006

200429R2_2 - ST200429R2_2 1613 CS1 19L2303 - 1613 CS1 19L2303

#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF U	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.6015e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0794
4	1,2,3,6,7,8-HxCDD	34.60	1.197	NO	2.1210e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.205	NO	1.9008e4	8.4960e5	2.500	1.9	7.54	0.915	0.0590
6	1,2,3,4,6,7,8-HpCDD	38.37	1.910	NO	1.4765e4	6.9920e5	2.500	-0.2	6.95	0.898	0.0620
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.748	NO	8.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.80	1.042	NO	3.6534e4	1.0515e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.6966e4	1.6151e6	2.500	-0.1	4.98	0.956	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2910e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3027e4	1.0496e6	2.500	-1.6	7.69	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.6611e4	6.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.007	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0857
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1901e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



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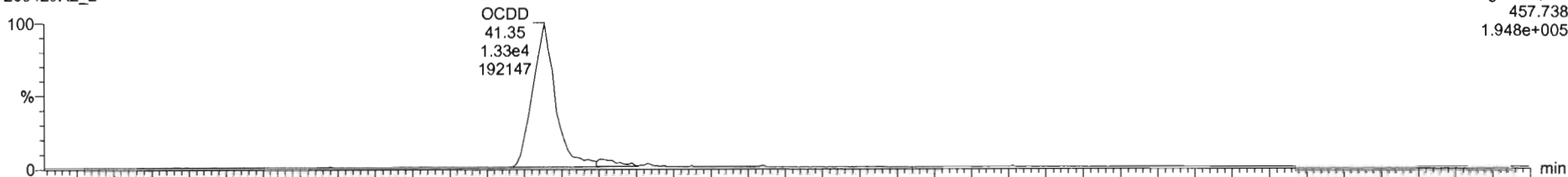
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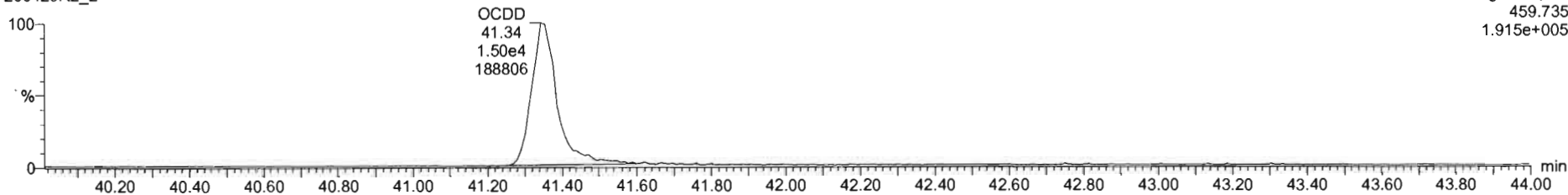
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OCDD

200429R2_2

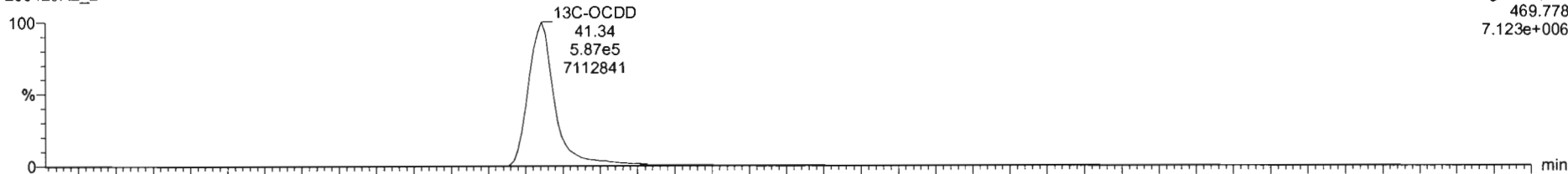


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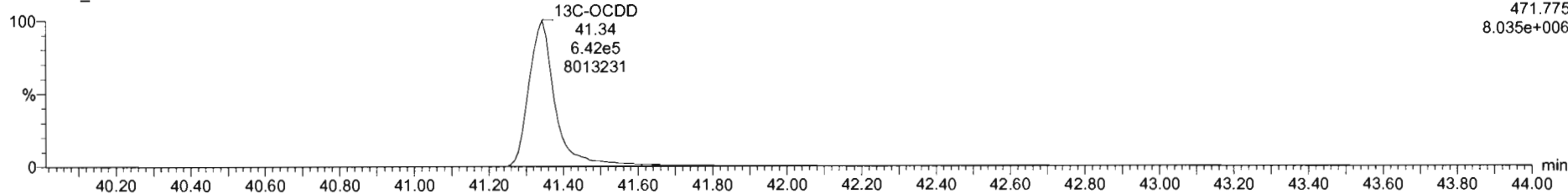


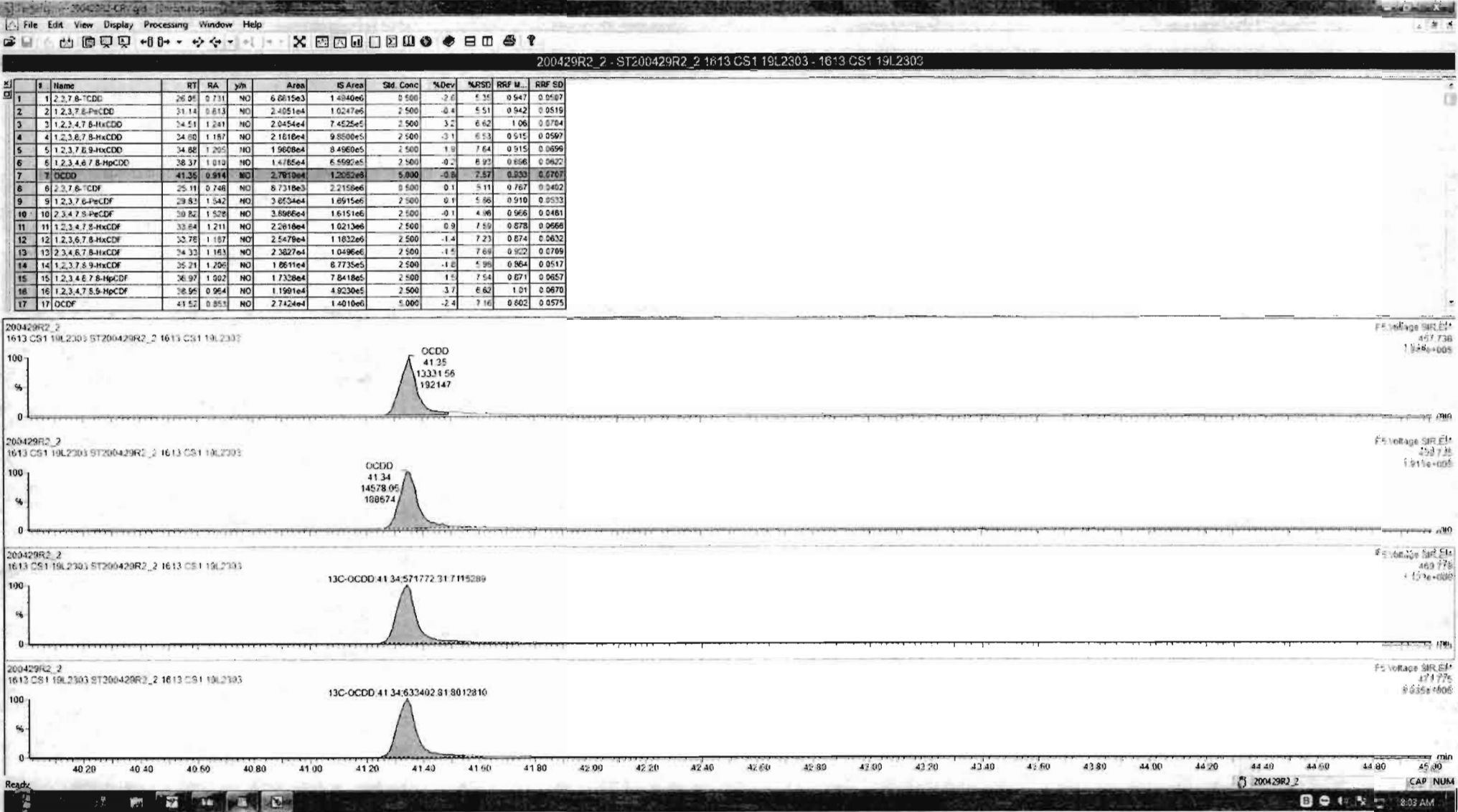
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200429R2_2



200429R2_2





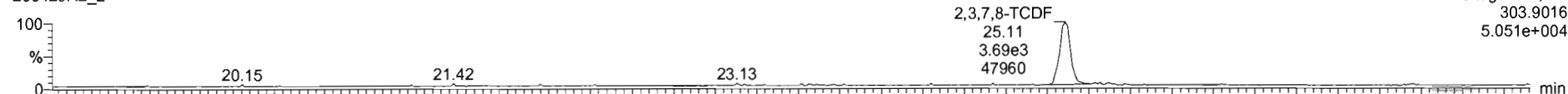
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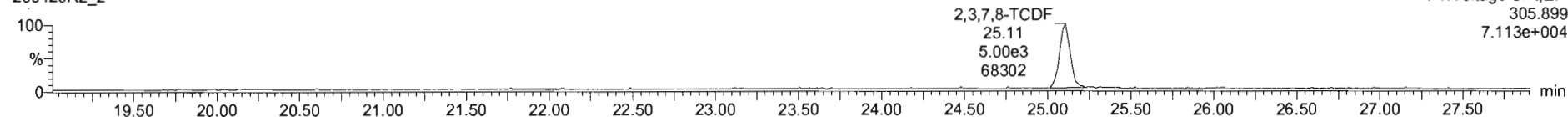
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2,3,7,8-TCDF

200429R2_2

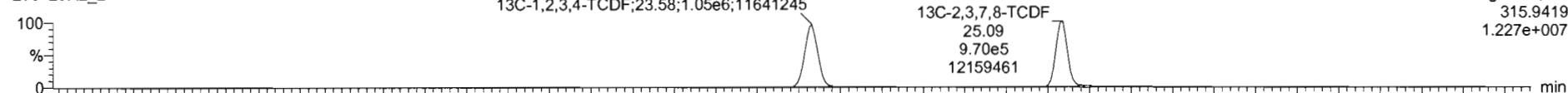


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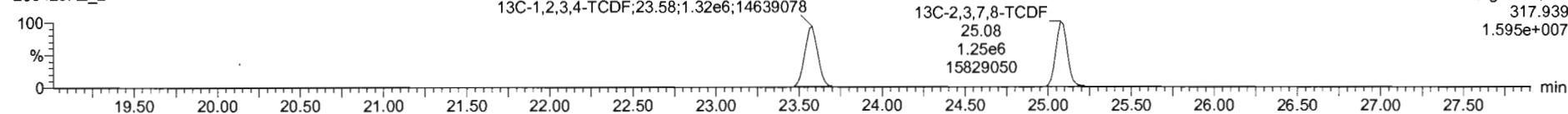


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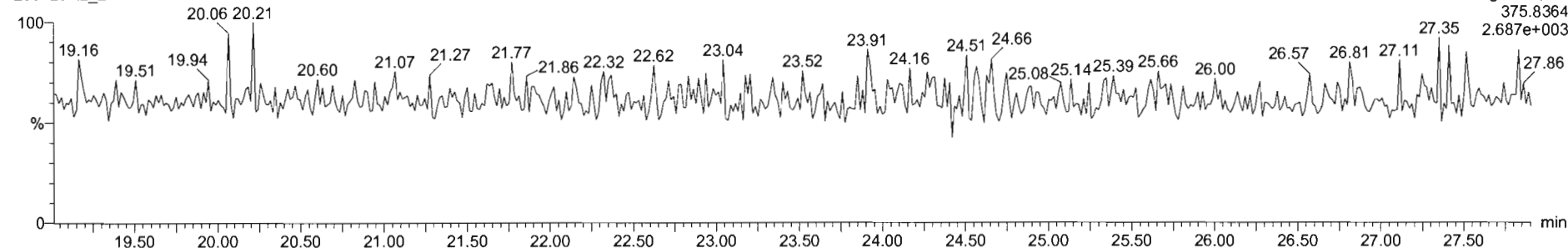


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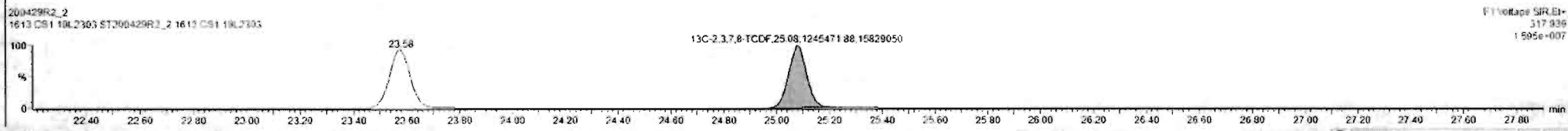
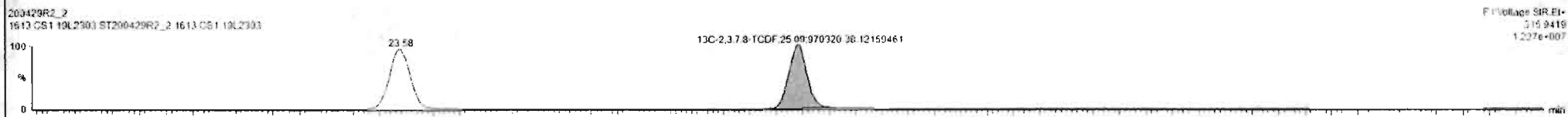
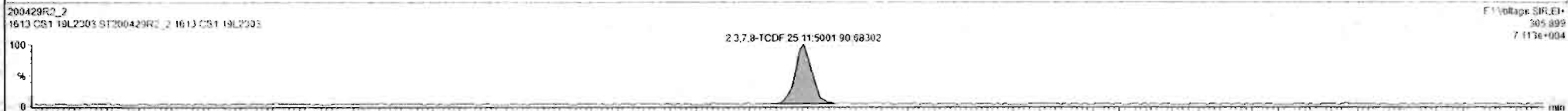
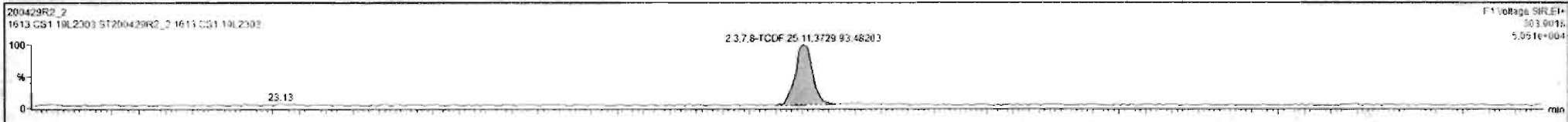


DPE1

200429R2_2



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	25.05	0.731	NO	6.6615e3	1.4940e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.813	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.5006e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.98	1.205	NO	1.9808e4	8.4990e5	2.500	1.9	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.37	0.856	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.523	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7518e3	2.2158e6	0.500	0.1	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6554e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.82	1.628	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.19	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1622e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



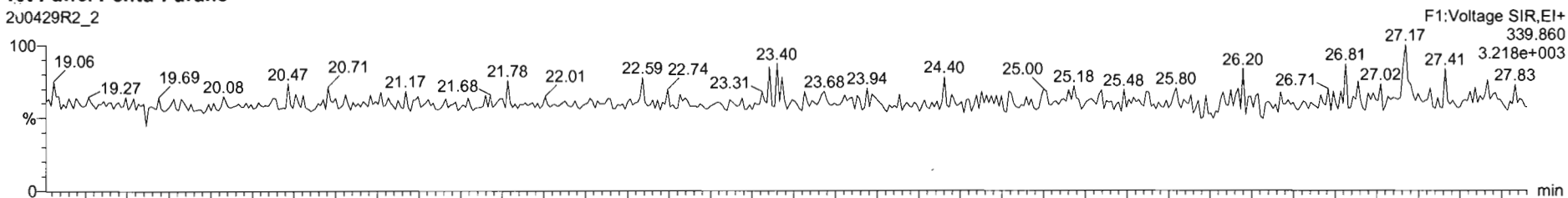
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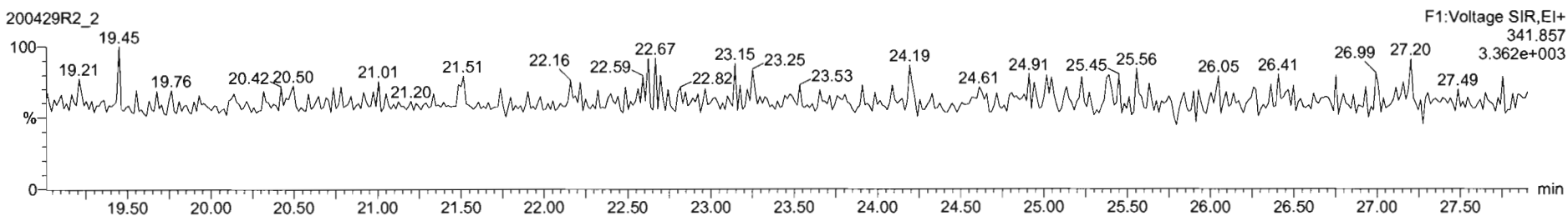
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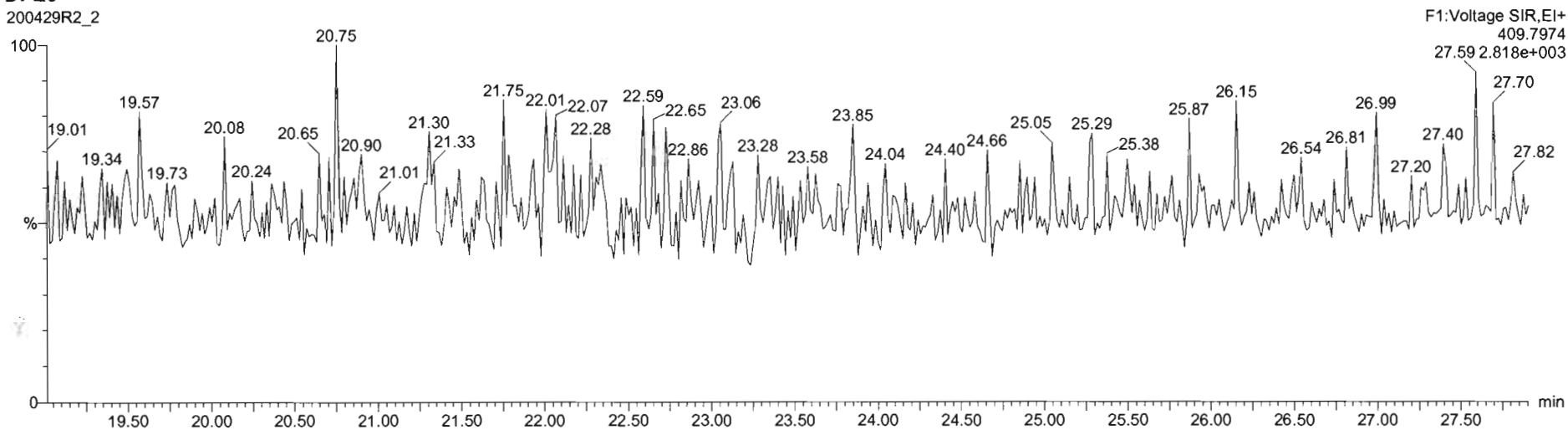


200429R2_2



DPE6

200429R2_2



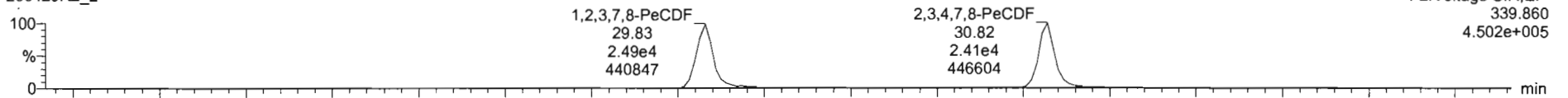
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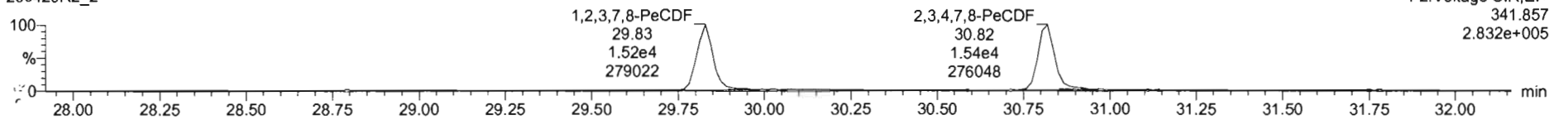
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1,2,3,7,8-PeCDF

200429R2_2

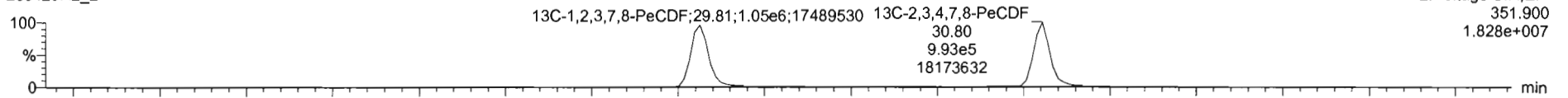


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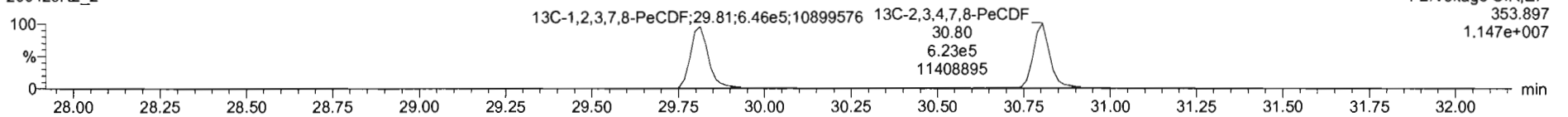


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200429R2_2

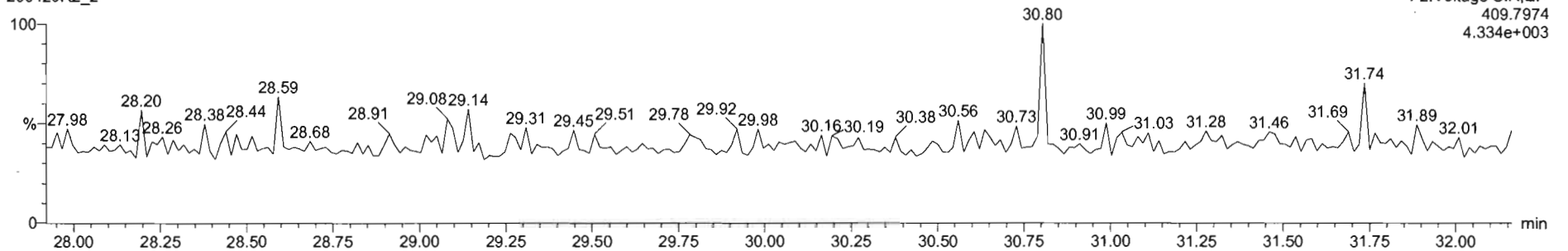


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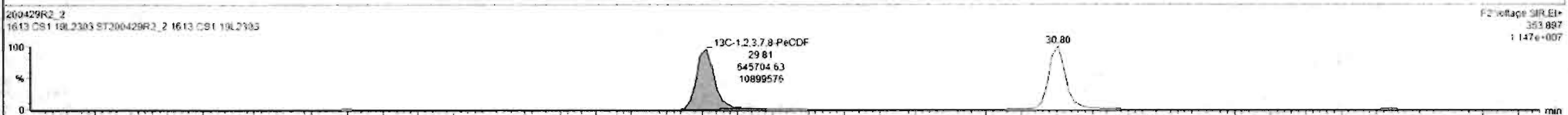
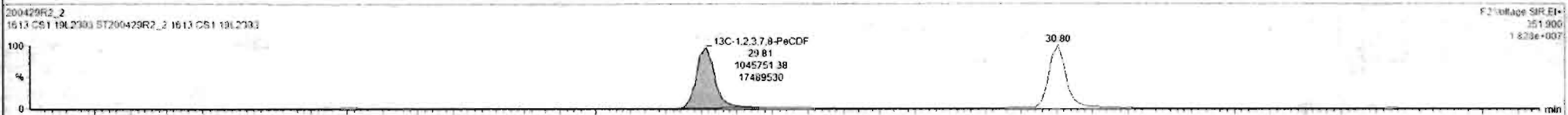
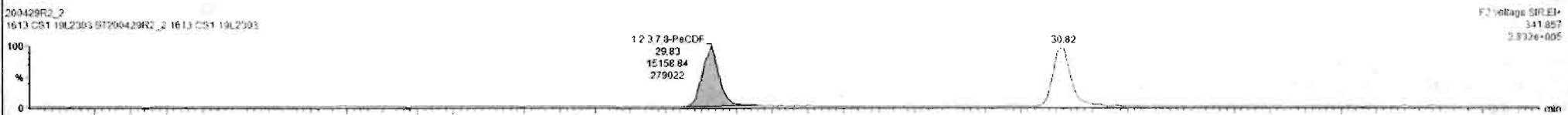
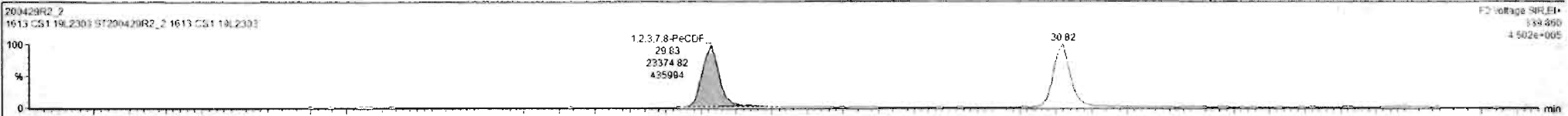


DPE2

200429R2_2

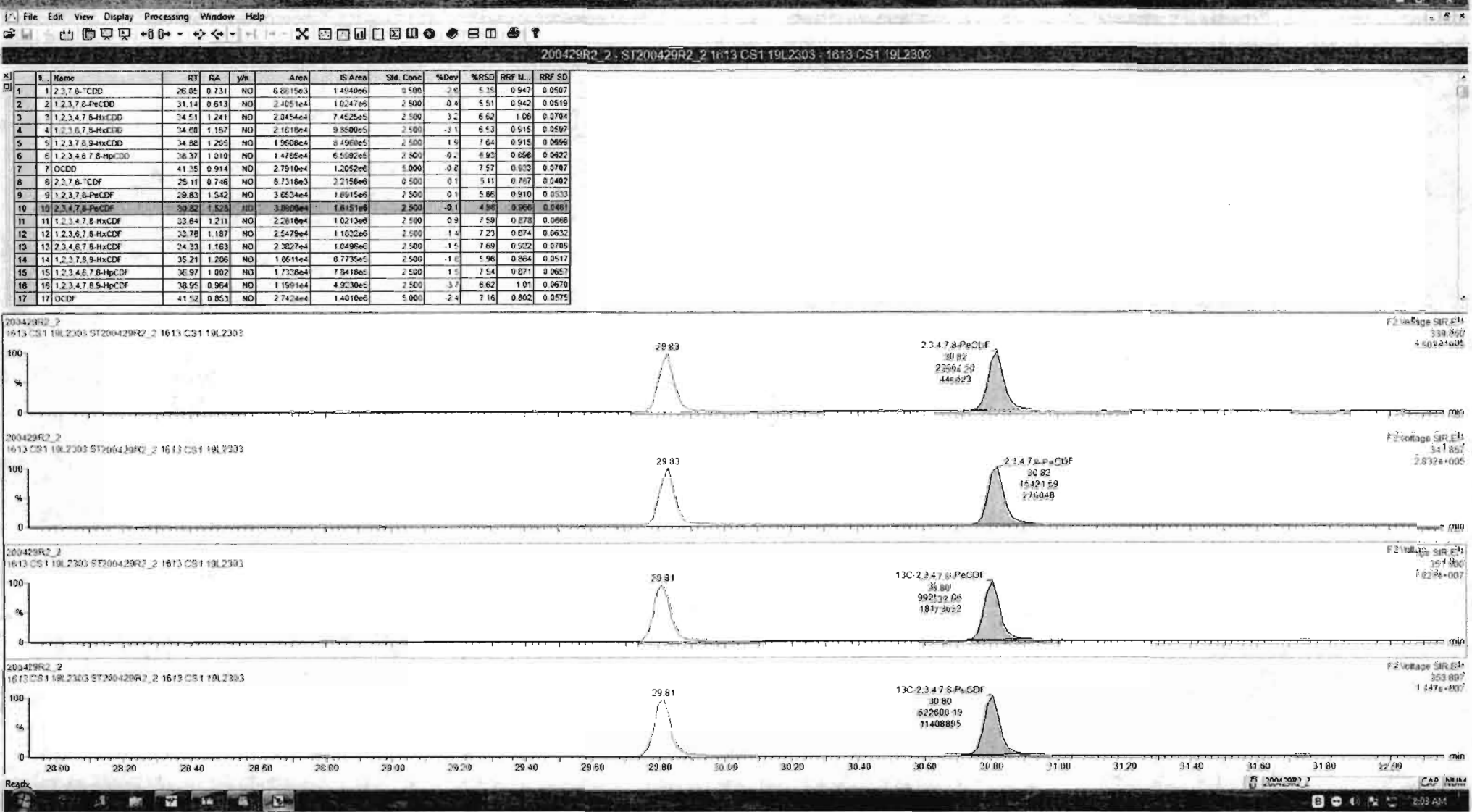


#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	28.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.8	5.37	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,7,8,9-HxCDD	34.80	1.187	NO	2.1810e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDF	34.88	1.295	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.856	0.0620
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.748	NO	8.7310e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6534e4	1.6815e6	2.500	0.1	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.82	1.328	NO	3.8066e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	32.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.183	NO	2.5827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	-1.0	6.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.653	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.662	0.0575



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200429R2_2 CAP NUM

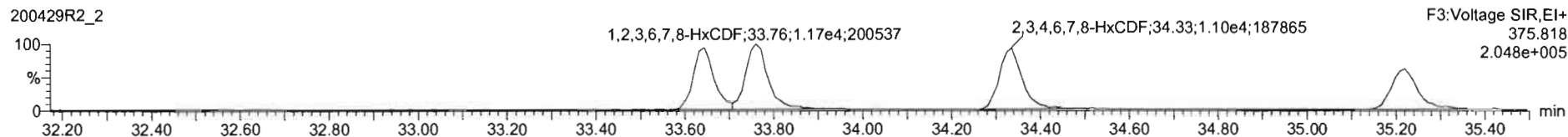
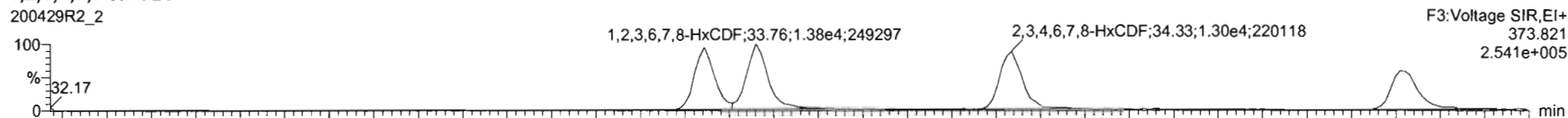


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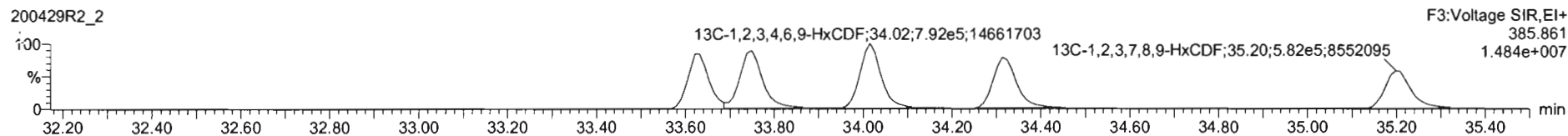
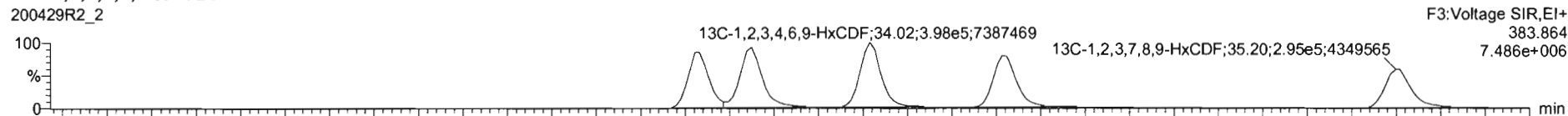
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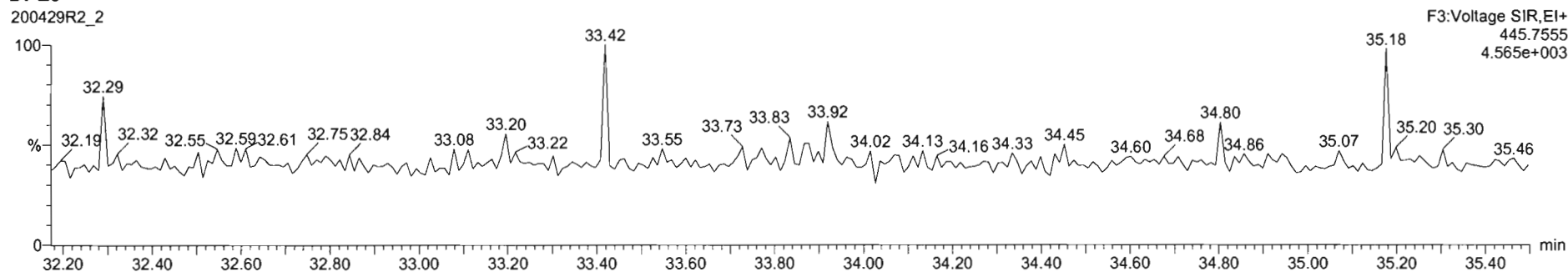
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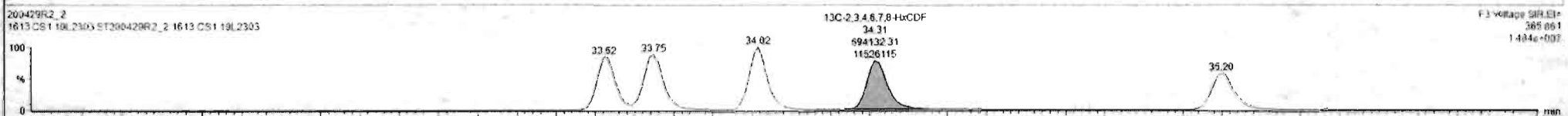
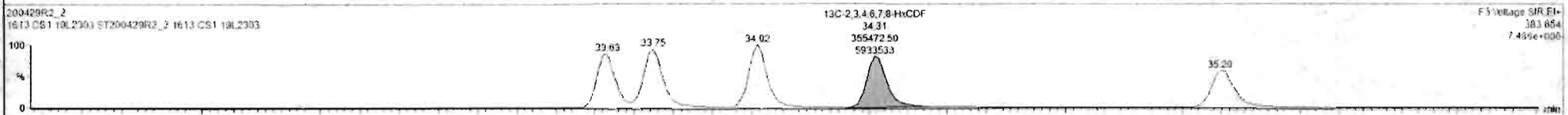
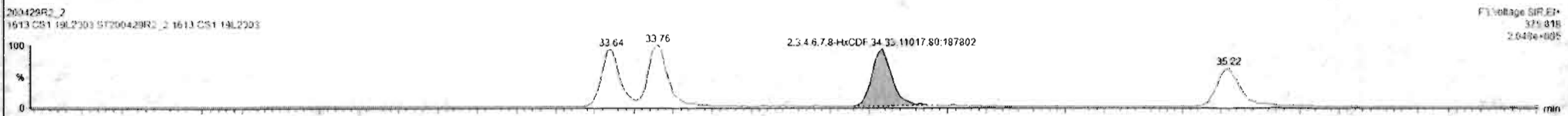
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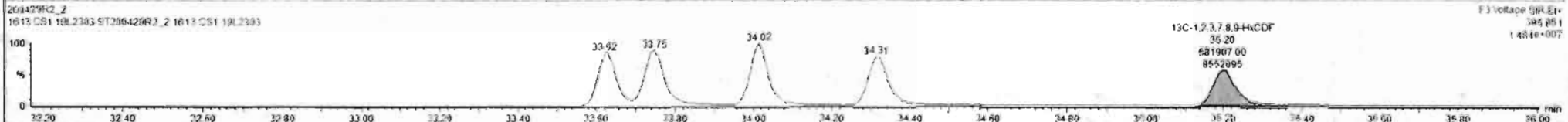
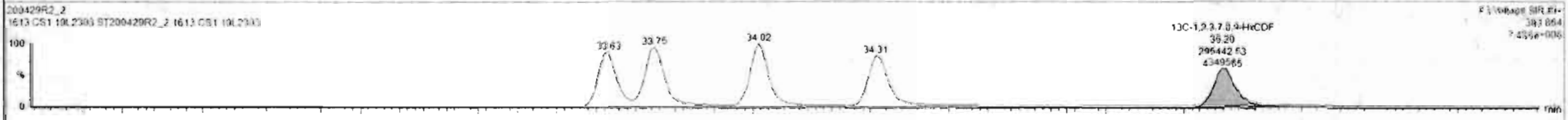
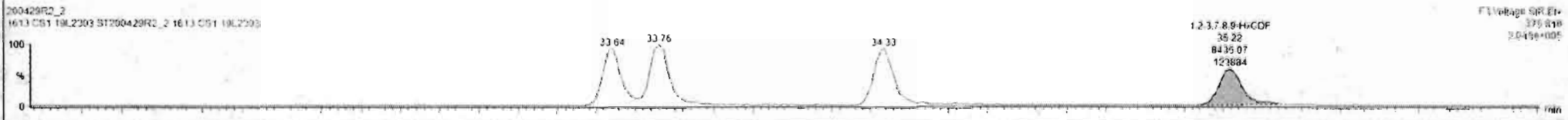
DPE3



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8000e5	2.500	-2.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.80	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0698
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.858	0.0622
7	OCDF	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	6.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0403
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6934e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2810e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0490e6	2.500	-1.5	7.69	0.822	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.9611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4540e6	0.500	-2.0	6.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.9454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.00	1.157	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.205	NO	1.9608e4	3.4560e5	2.500	1.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.896	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.0	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.748	NO	8.7310e3	2.2158e6	0.500	0.1	5.11	0.757	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8534e4	1.6915e6	2.500	0.1	5.66	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	29.82	1.528	NO	3.8666e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.0	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1032e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8071e4	8.7735e5	2.500	-1.0	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1991e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



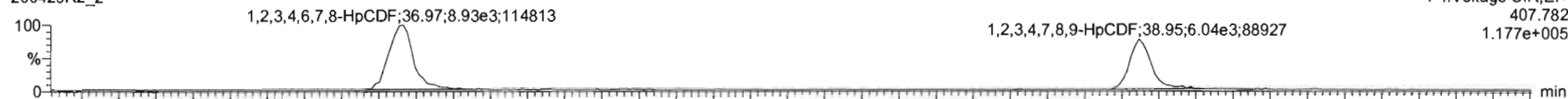
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

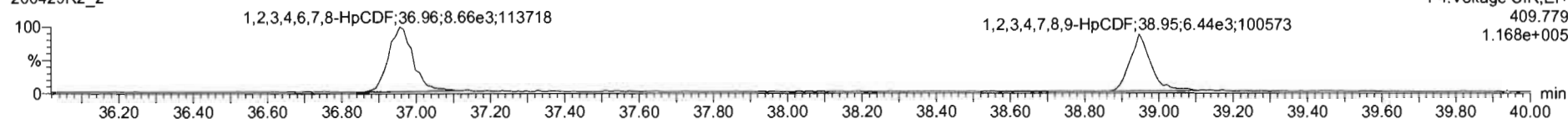
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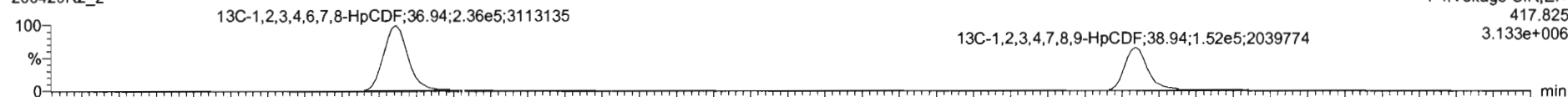


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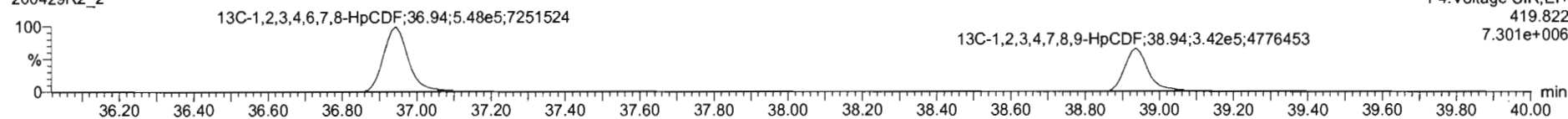


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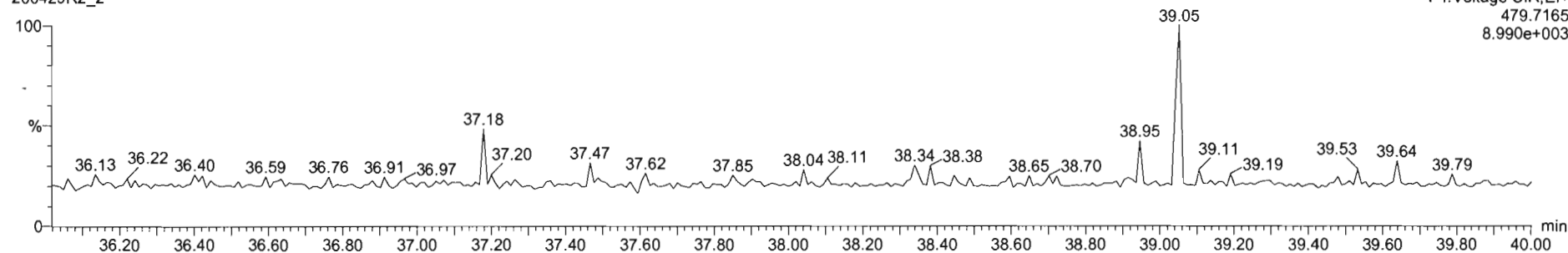


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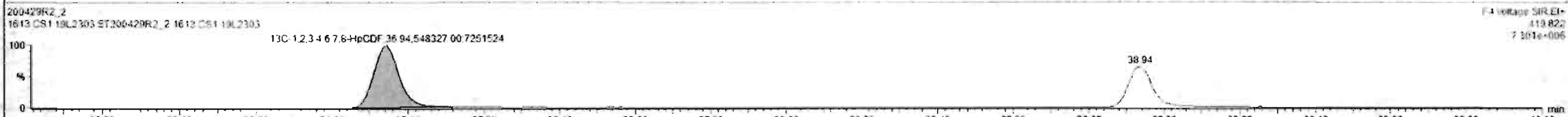
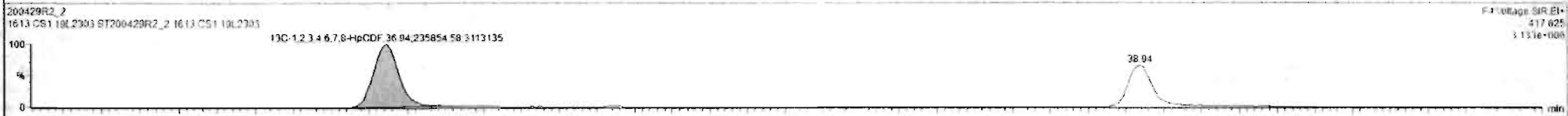
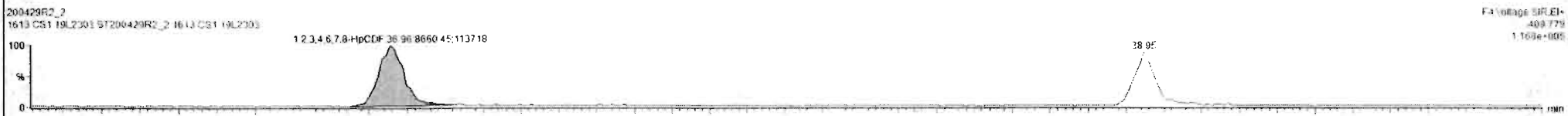


DPE4

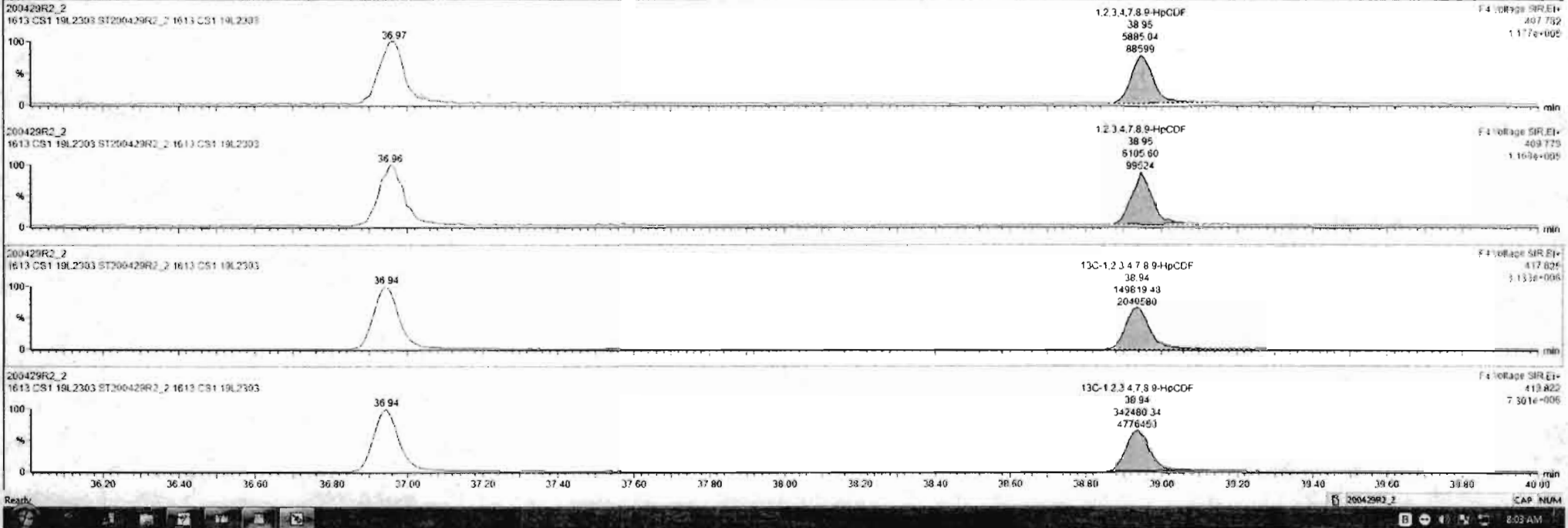
200429R2_2



#	Name	RT	RA	yln	Area	IS Area	Std Conc	%Dev	MRSD	RRF U	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.8454e4	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.157	NO	2.1618e4	9.8600e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.92	1.203	NO	1.5608e4	8.4960e5	2.500	1.6	7.64	0.915	0.0698
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5992e5	2.500	-0.2	6.93	0.858	0.0622
7	OCDD	41.38	0.954	NO	2.7910e4	1.2052e6	0.000	-0.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.0134e4	1.0915e6	2.500	0.1	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.628	NO	3.3686e4	1.6151e6	2.500	-0.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	32.78	1.187	NO	2.5479e4	1.1822e6	2.500	-1.4	7.21	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	-1.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.022	NO	1.7138e4	7.8412e5	2.500	1.5	7.54	0.871	0.0552
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1591e4	4.9230e5	2.500	3.7	6.82	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	0.060	-2.4	7.16	0.862	0.0575



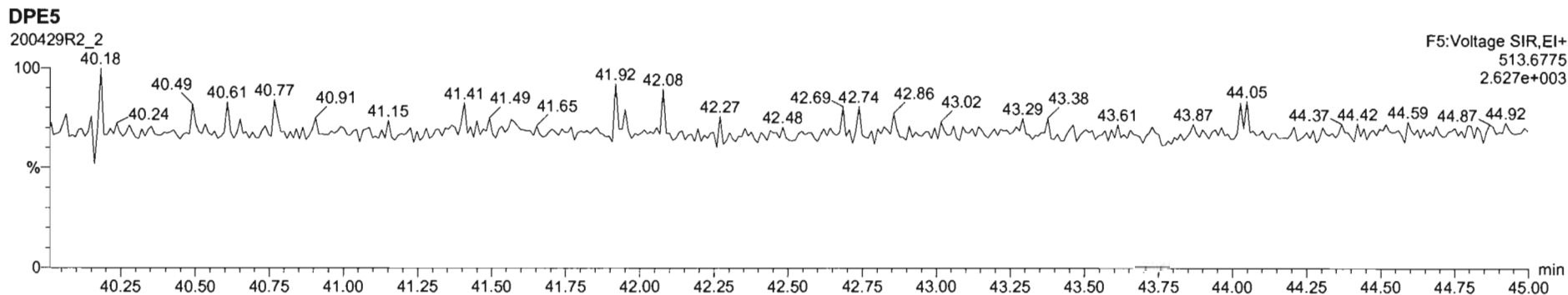
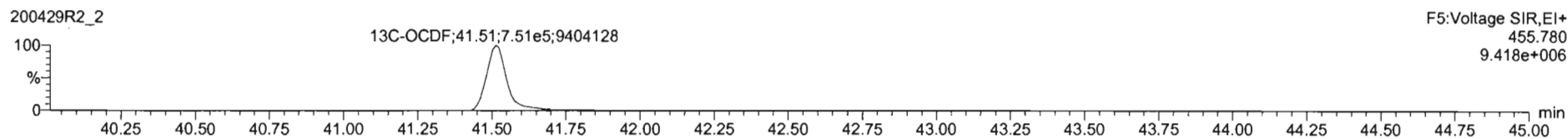
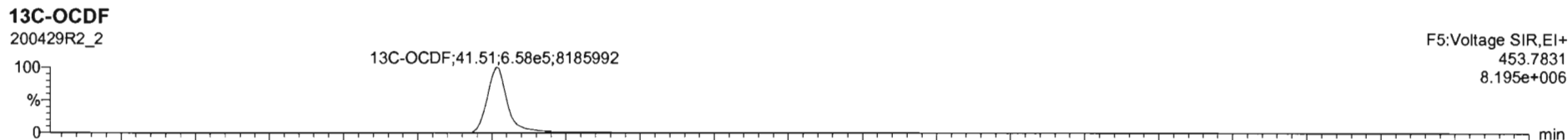
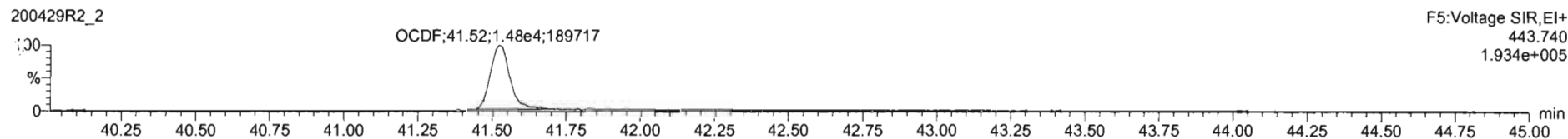
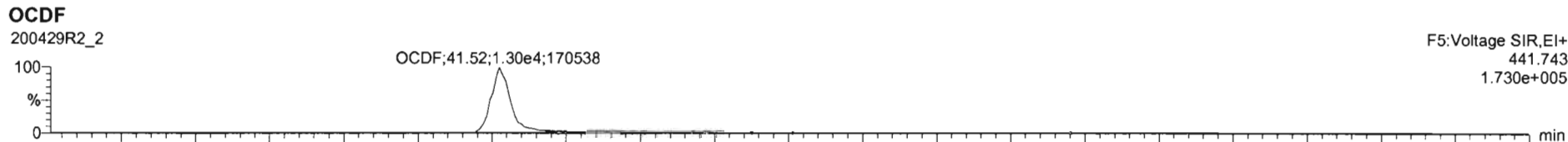
#	Name	RT	RA	yth	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.731	NO	6.8615e3	1.4940e6	0.500	-2.8	5.35	0.947	0.0107
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.42	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.89	1.187	NO	2.1818e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.295	NO	1.9688e4	3.4960e5	2.500	1.6	7.84	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.93	0.658	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	29.11	0.748	NO	8.7318e3	2.2158e6	0.500	0.1	5.11	0.757	0.0462
9	1,2,3,7,8-PeCDF	29.43	1.542	NO	3.6534e4	1.6915e6	2.500	0.1	5.62	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8986e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2818e4	1.0213e6	2.500	0.9	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.6418e5	2.500	1.5	7.54	0.871	0.0617
16	1,2,3,4,7,8,9-HpCDF	38.95	0.984	NO	1.1991e4	4.9238e5	2.500	-3.7	6.82	1.01	0.0679
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.662	0.0575



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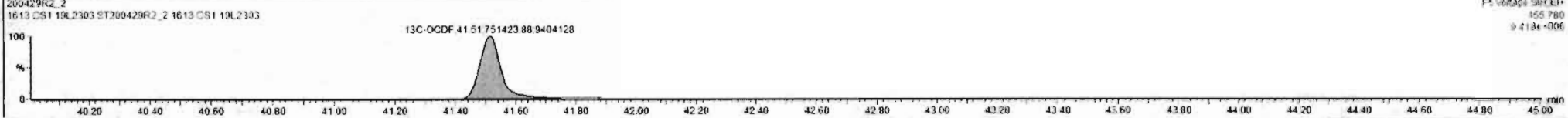
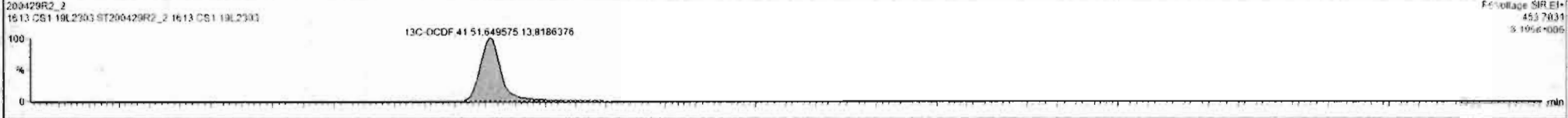
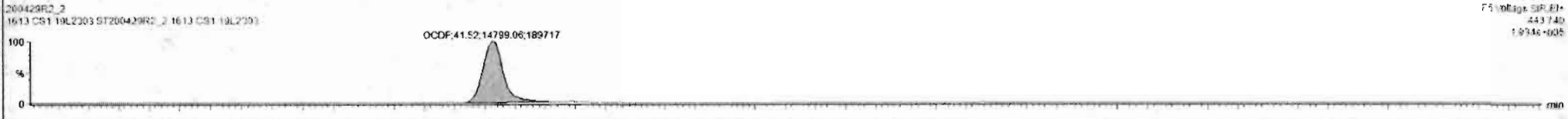
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200429R2_2 - ST200429R2_2 - 1613 CS1 19L2303 - 1613 CS1 19L2303

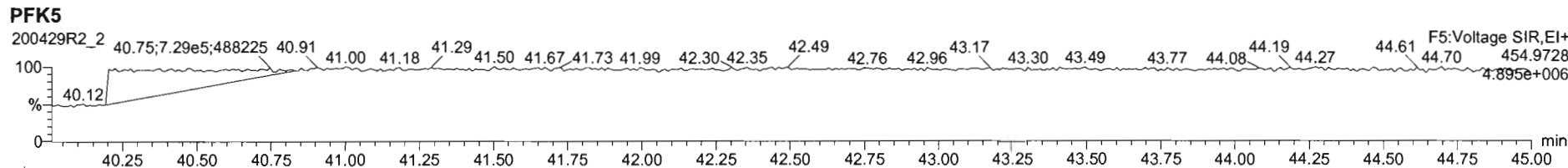
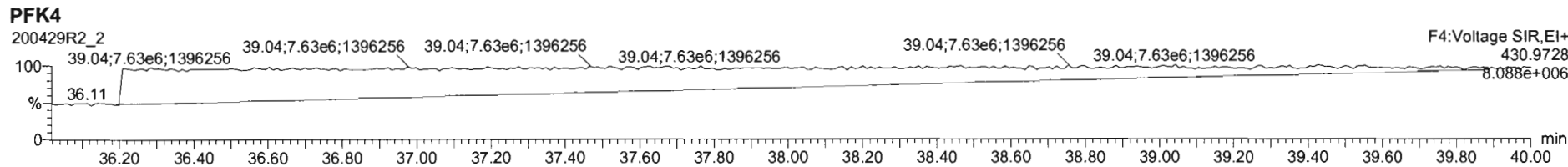
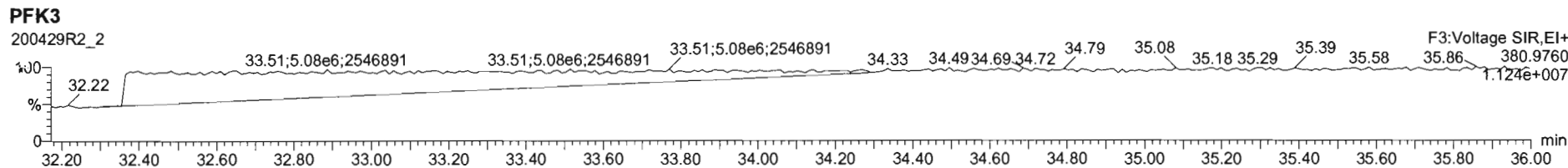
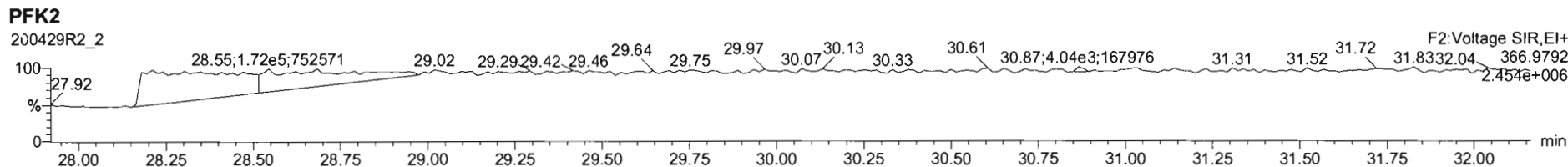
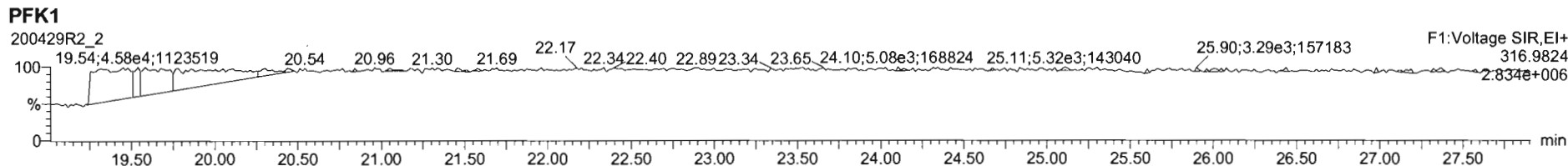
#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.197	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.696	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.633	0.0767
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7310e3	2.2156e6	0.500	0.1	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8754e4	1.6915e6	2.500	0.1	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.82	1.528	NO	3.8996e4	1.6151e6	2.500	-0.1	4.95	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.197	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3227e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8611e4	8.7735e5	2.500	-1.6	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.55	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.883	NO	2.7424e4	1.4010e6	5.000	-2.4	7.18	0.802	0.0573



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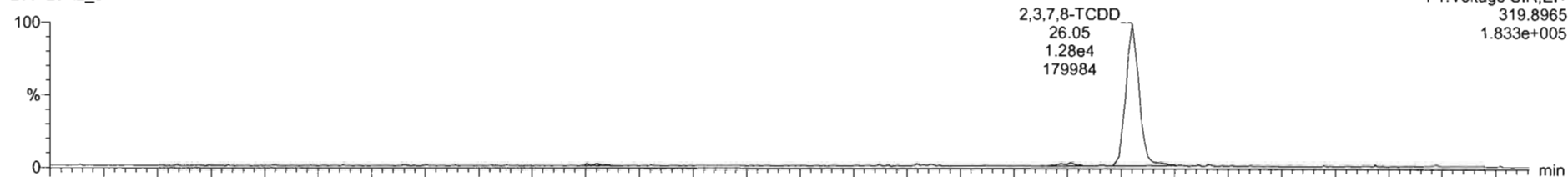
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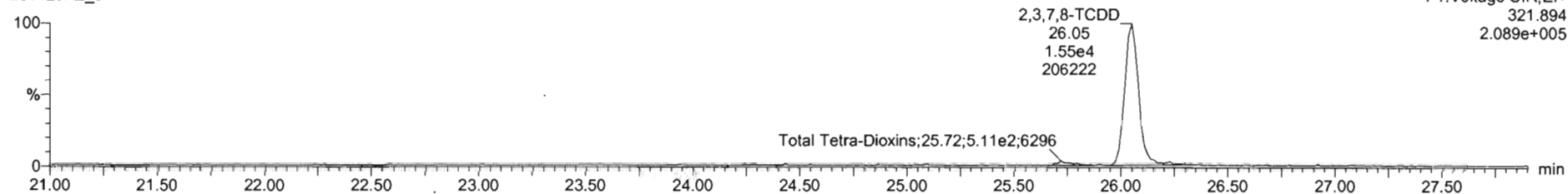
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2,3,7,8-TCDD

200429R2_3

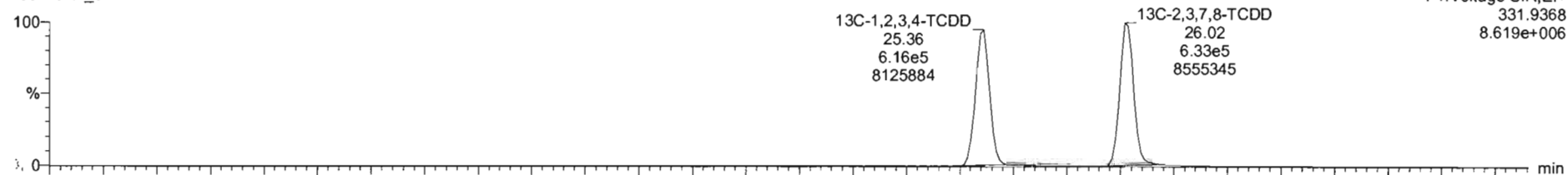


200429R2_3

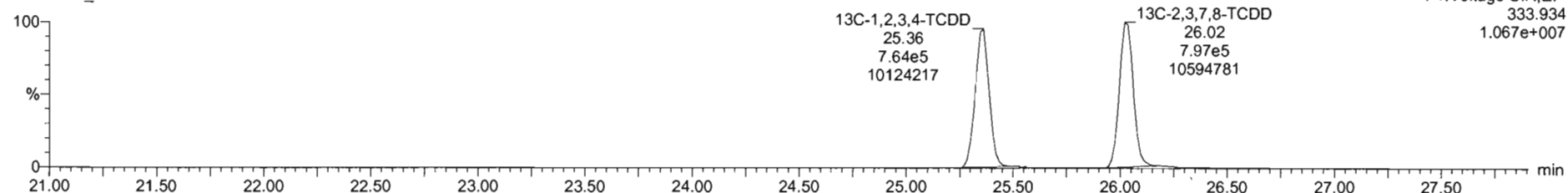


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200429R2_3

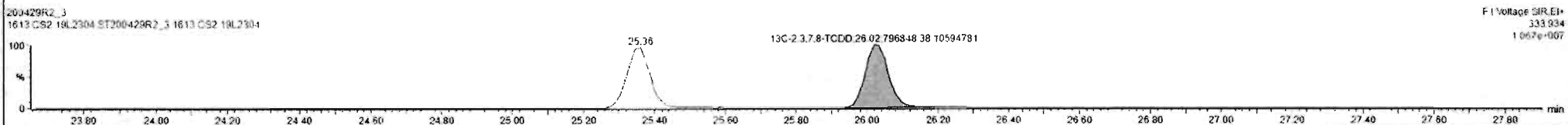
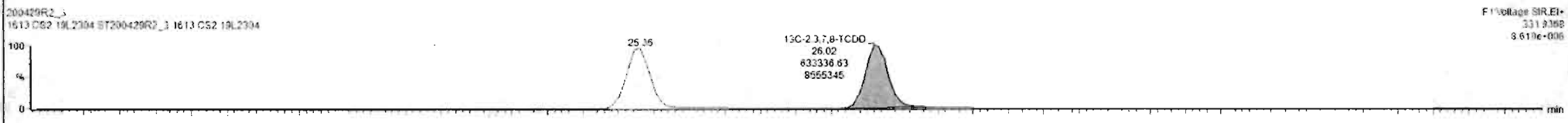
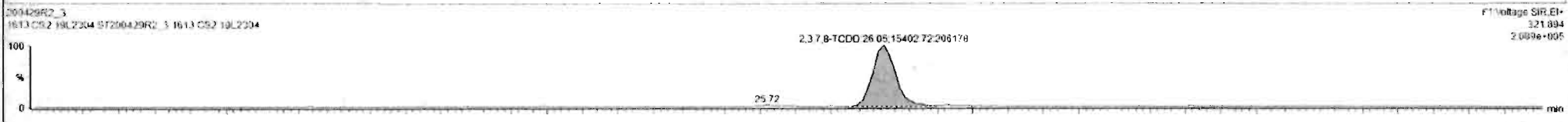
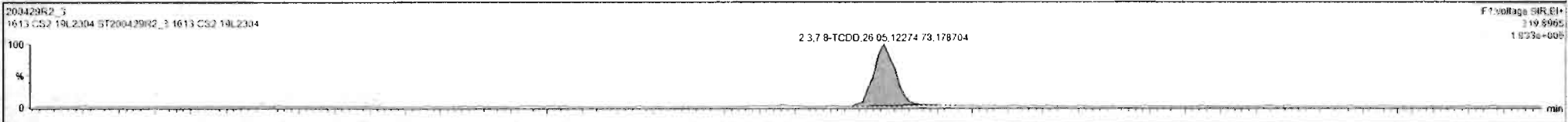


200429R2_3



200429R2_3 - ST200429R2_3 1613 CS2 19L2304 1613 CS2 19L2304

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.900	2.1	5.35	0.947	0.0567
2	1,2,3,7,8-PeCDD	21.13	0.621	NO	9.9612e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.49	1.246	NO	8.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	24.80	1.244	NO	8.1064e4	8.0356e5	10.000	6.3	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.36	1.081	NO	5.9094e4	6.3852e5	10.000	3.1	8.93	0.856	0.0632
7	OCDD	41.24	0.883	NO	1.0629e5	1.0963e6	20.000	5.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.8671e6	2.900	4.1	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.567	NO	1.5997e5	1.6425e6	10.000	7.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.6556e6	10.000	6.4	4.95	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.78	1.209	NO	1.0898e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0301e6	10.000	7.1	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7026e4	8.5676e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.95	0.958	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.9417e4	4.7128e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.6707e5	1.2711e6	20.000	5.0	7.16	0.802	0.0575



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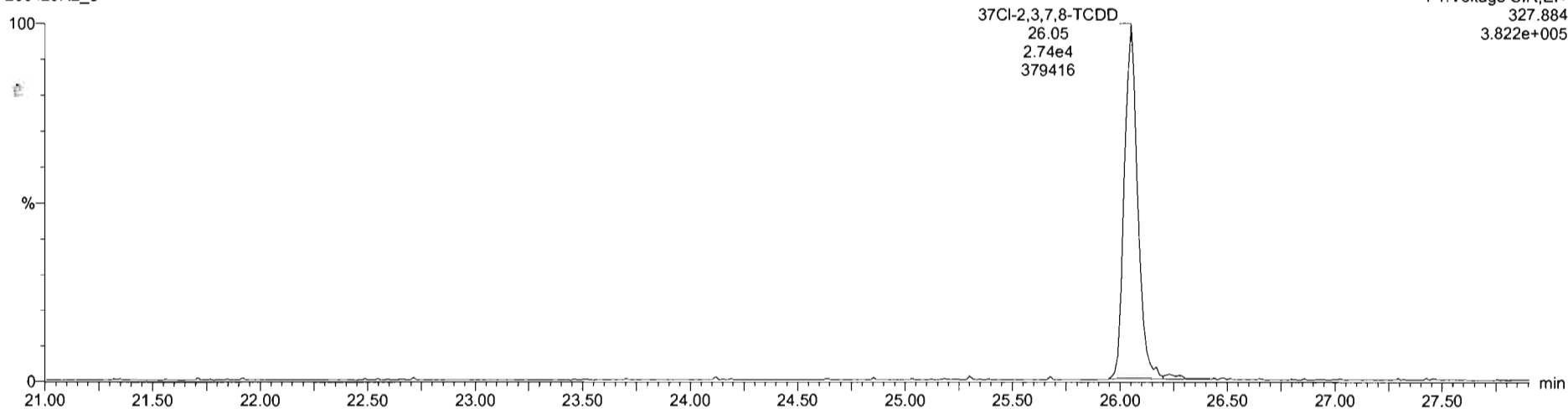
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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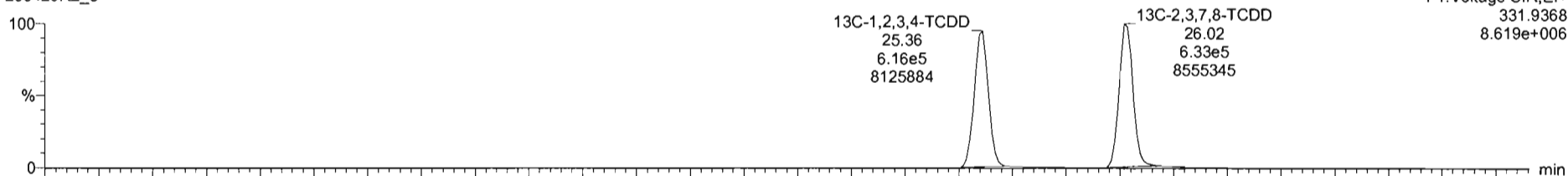
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200429R2_3

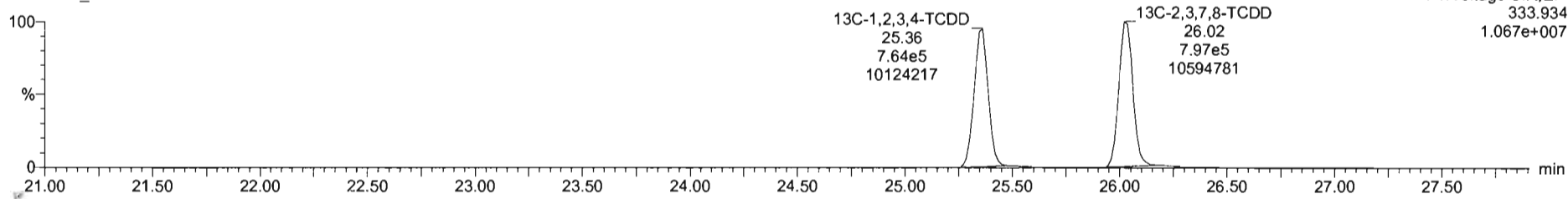


13C-1,2,3,4-TCDD

200429R2_3



200429R2_3



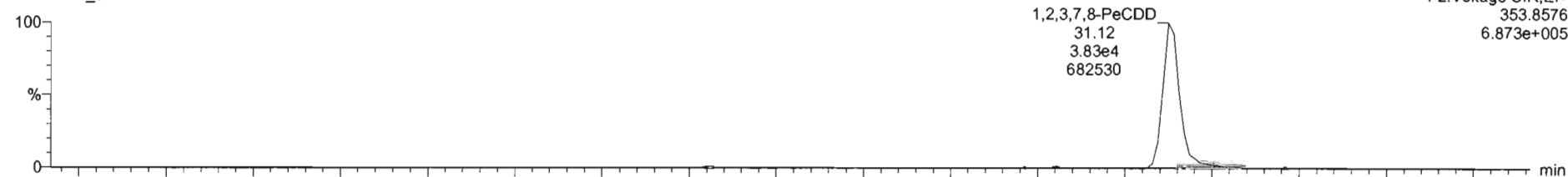
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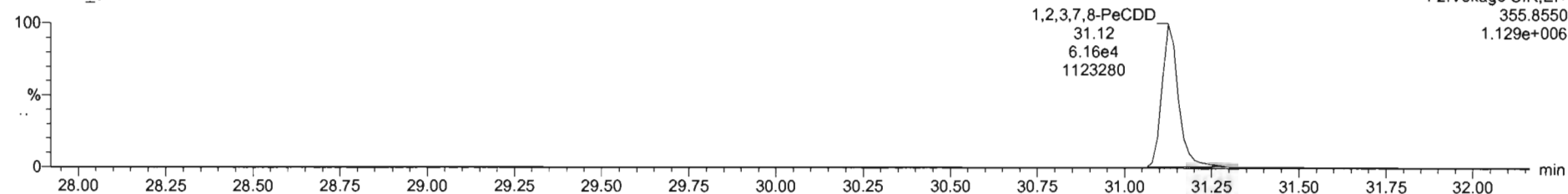
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1,2,3,7,8-PeCDD

200429R2_3

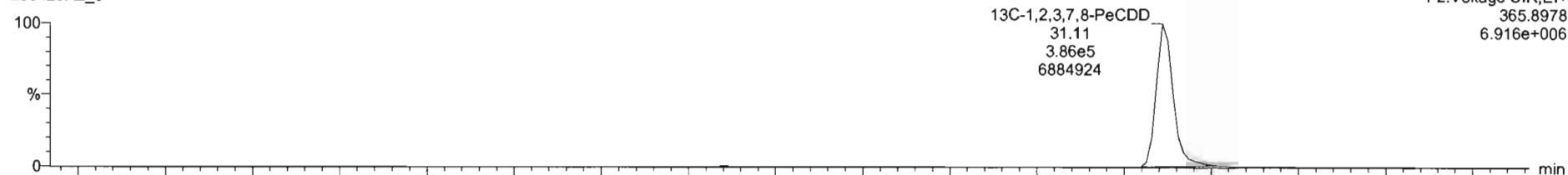


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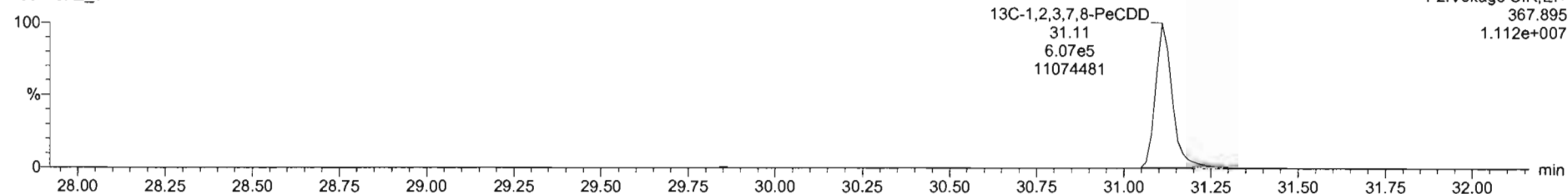


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200429R2_3



200429R2_3



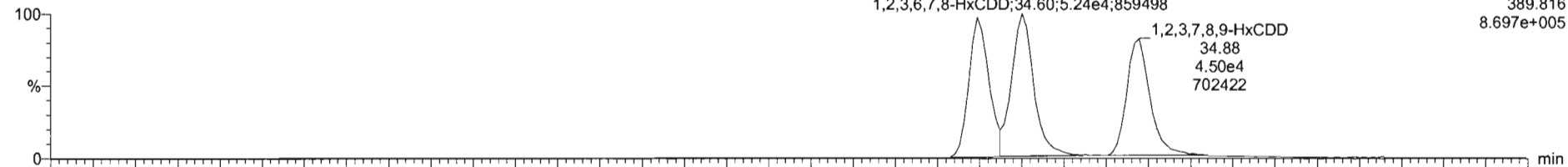
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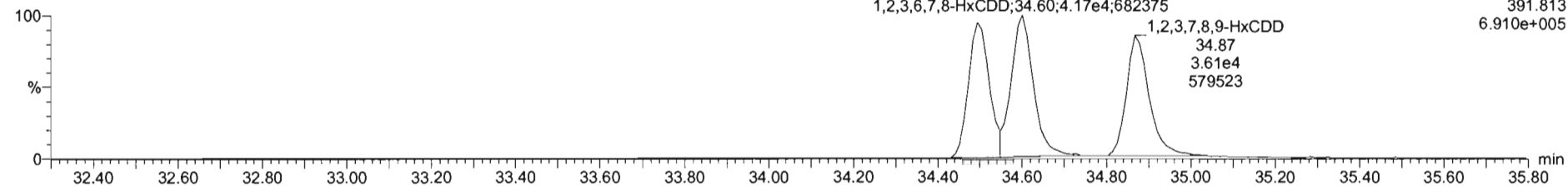
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1,2,3,4,7,8-HxCDD

200429R2_3

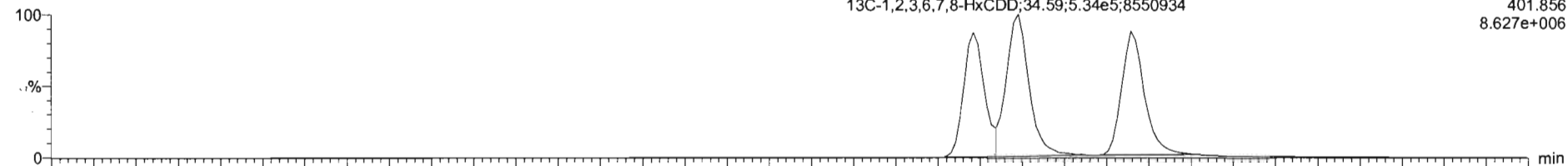


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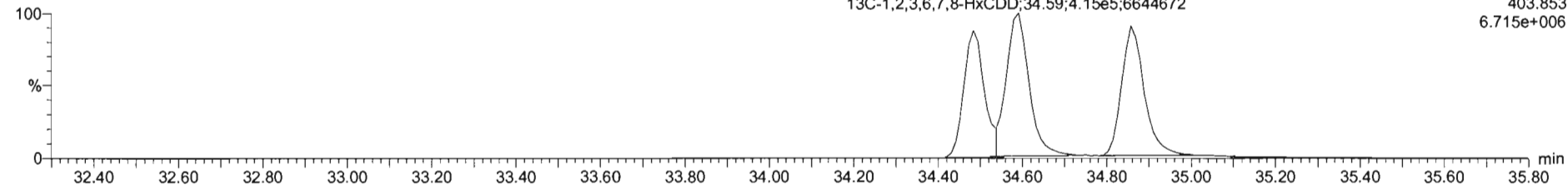


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200429R2_3



200429R2_3



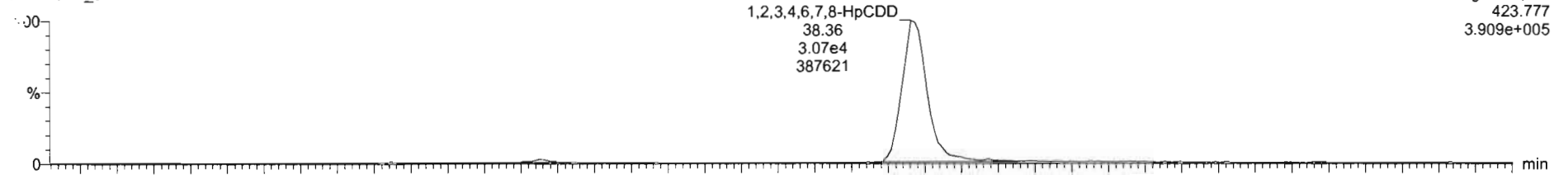
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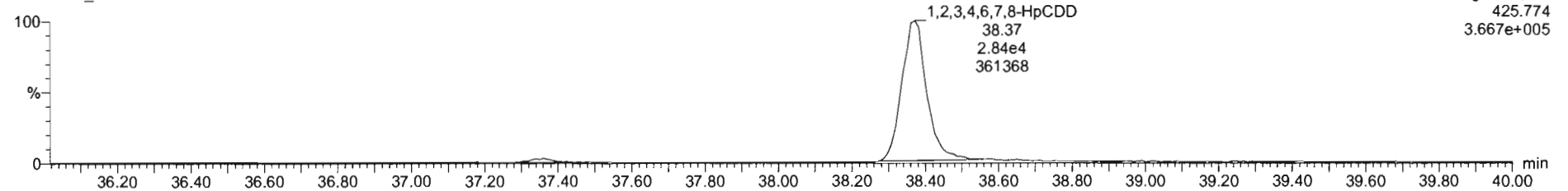
1,2,3,4,6,7,8-HpCDD

200429R2_3



F4:Voltage SIR,EI+
423.777
3.909e+005

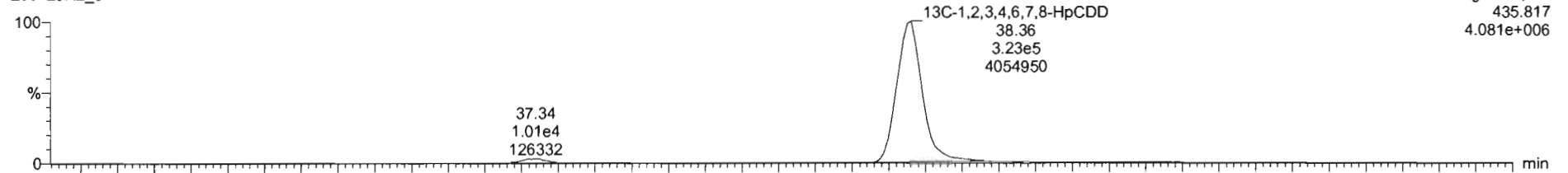
200429R2_3



F4:Voltage SIR,EI+
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3.667e+005

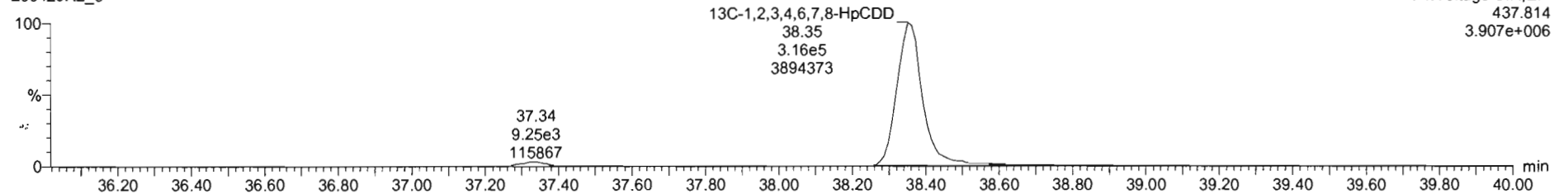
13C-1,2,3,4,6,7,8-HpCDD

200429R2_3



F4:Voltage SIR,EI+
435.817
4.081e+006

200429R2_3



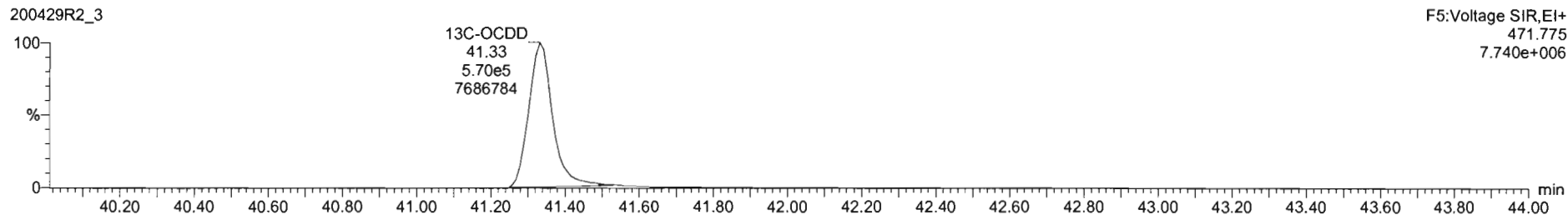
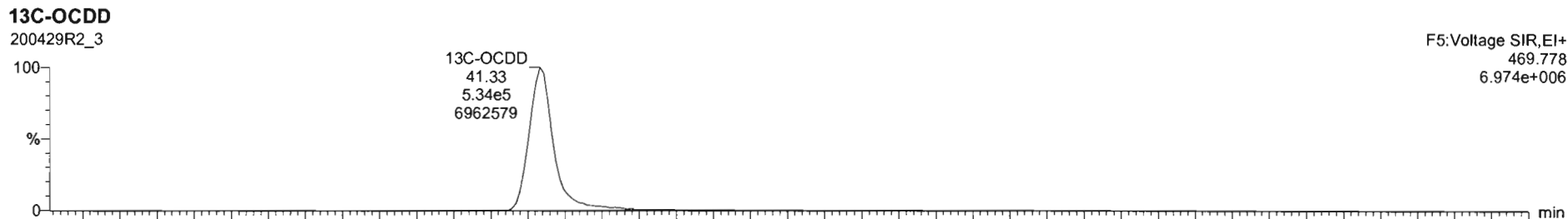
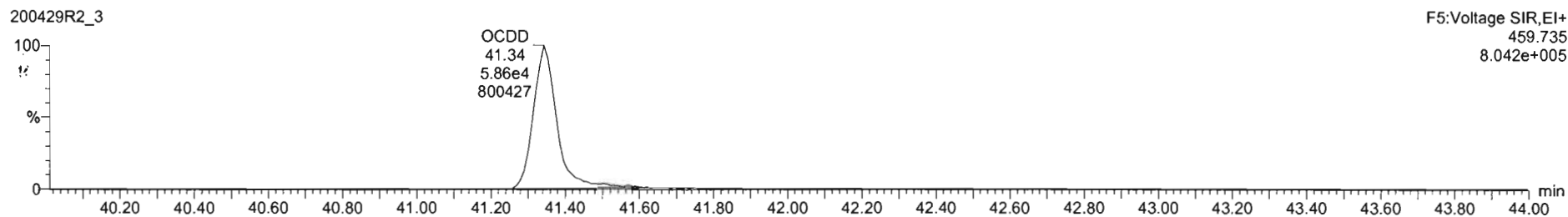
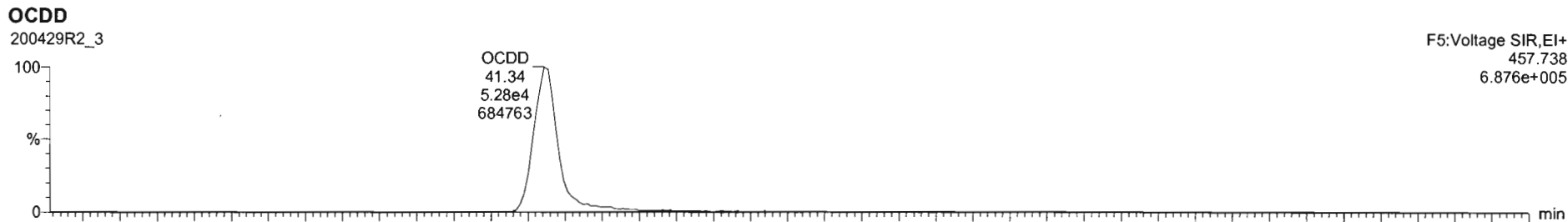
F4:Voltage SIR,EI+
437.814
3.907e+006

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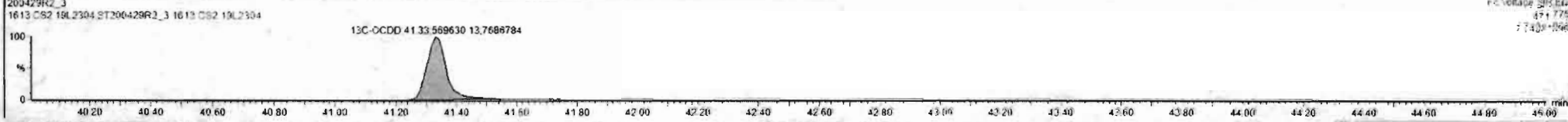
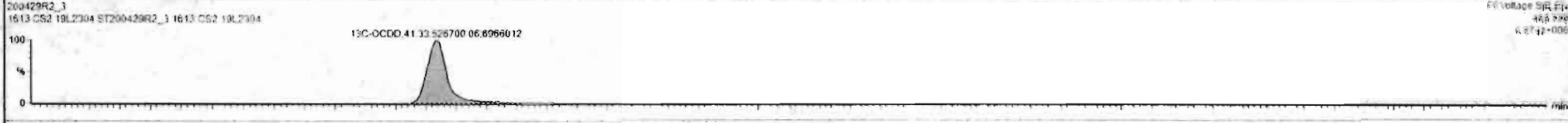
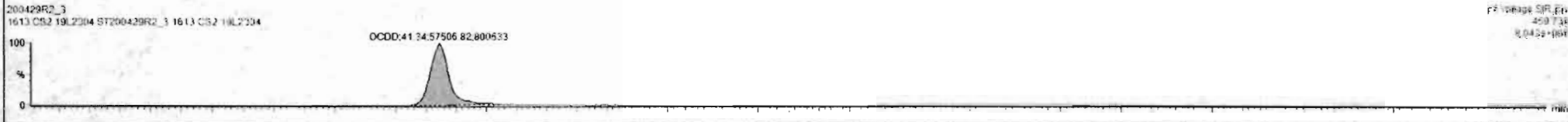
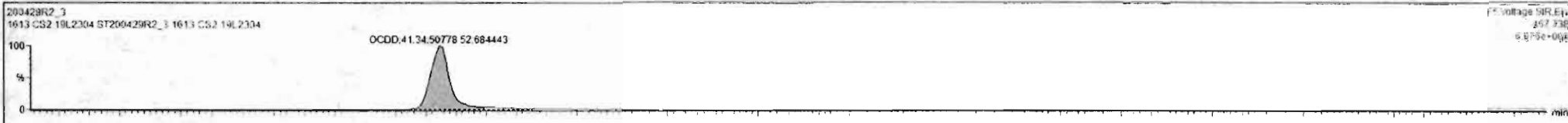
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#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.000	2.1	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9912e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.246	NO	3.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.244	NO	8.1084e4	8.2359e5	10.000	6.3	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	38.36	1.001	NO	5.3094e4	6.3852e5	10.000	3.1	6.93	0.856	0.0622
7	OCDD	41.34	0.863	NO	1.0629e5	1.0663e6	20.000	8.6	7.57	0.830	0.0767
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.0671e6	2.000	4.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.067	NO	1.5997e5	1.6425e6	10.000	7.0	5.06	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.5656e6	10.000	6.4	4.98	0.906	0.0481
11	1,2,3,4,7,8-HxCDF	32.83	1.217	NO	9.1102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.200	NO	1.0896e5	1.1366e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0201e6	10.000	7.1	7.69	0.922	0.0766
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7636e4	8.5276e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.90	0.950	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.8417e4	4.7188e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.6707e5	1.2711e6	20.000	5.0	7.16	0.862	0.0575



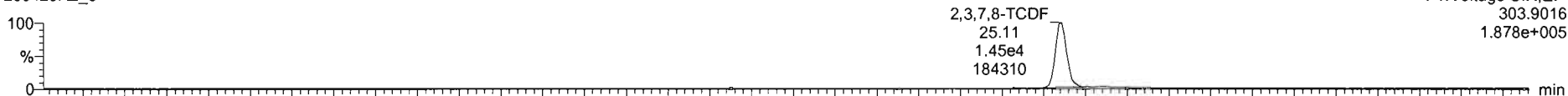
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

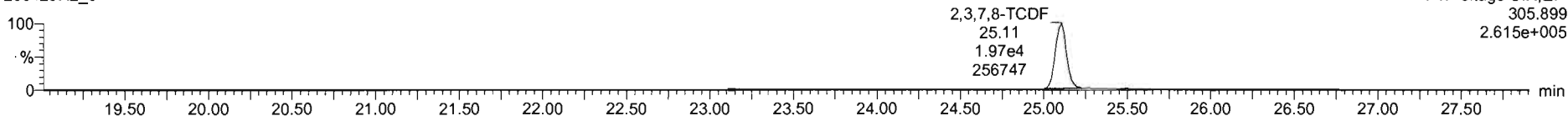
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2,3,7,8-TCDF

200429R2_3

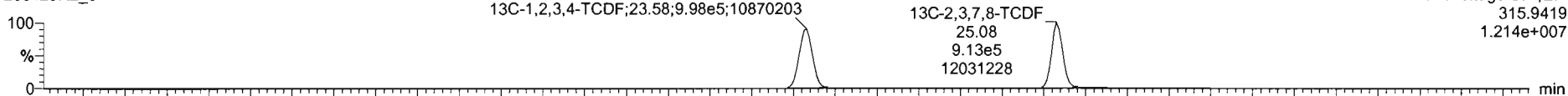


200429R2_3

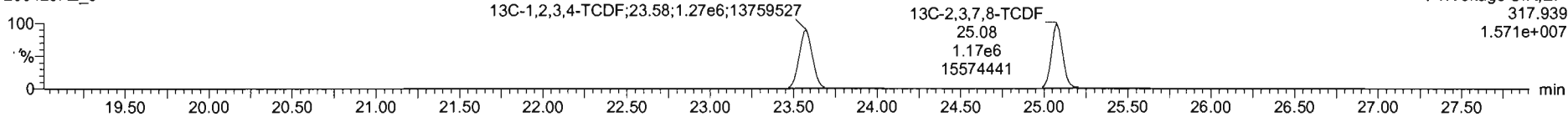


13C-2,3,7,8-TCDF

200429R2_3

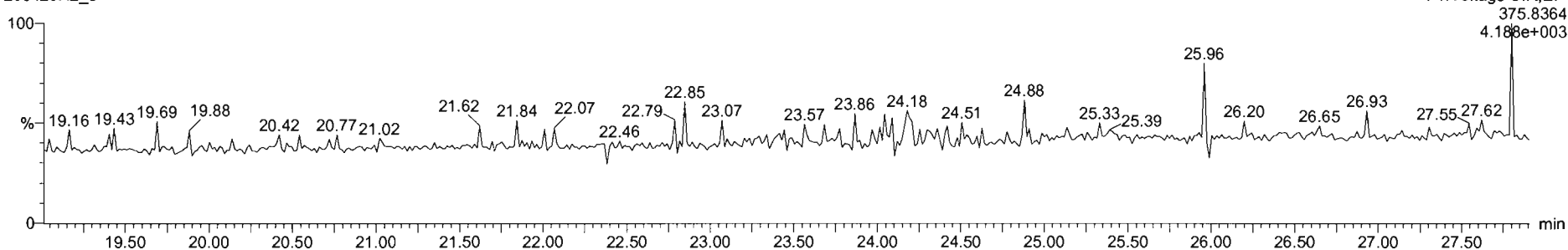


200429R2_3



DPE1

200429R2_3



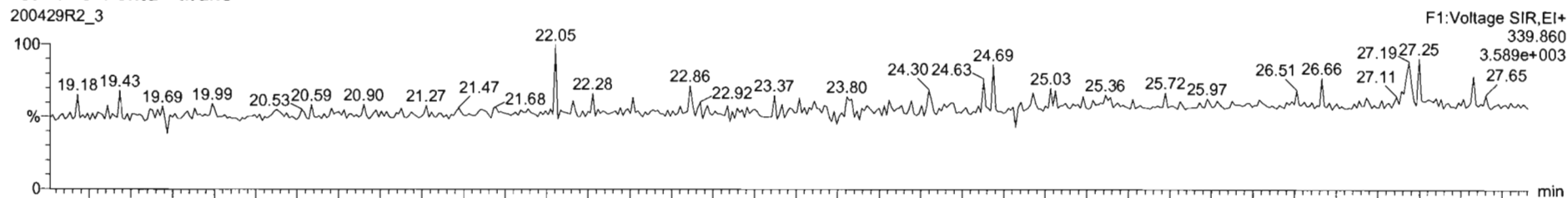
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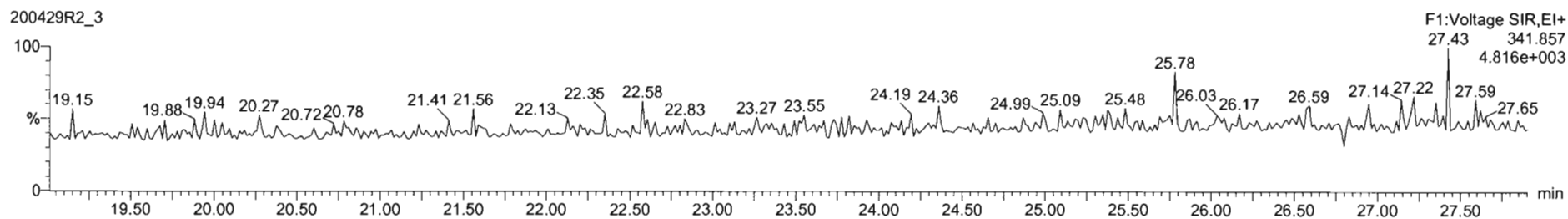
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200429R2_3

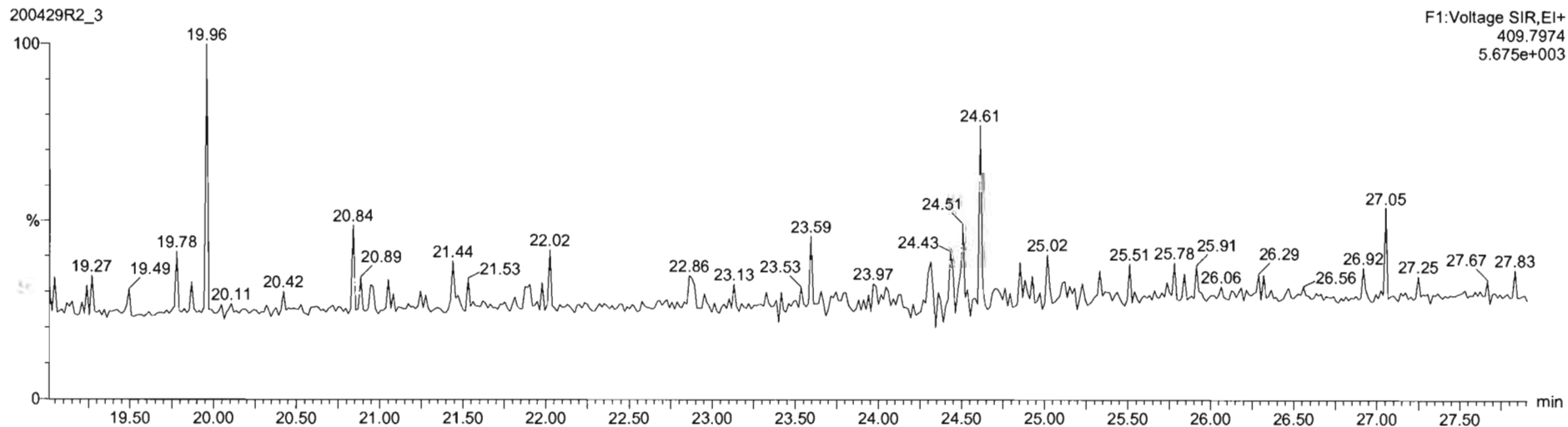


200429R2_3



DPE6

200429R2_3



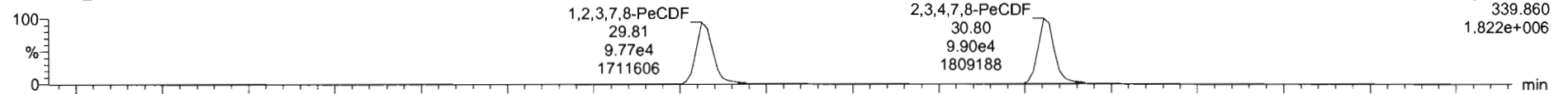
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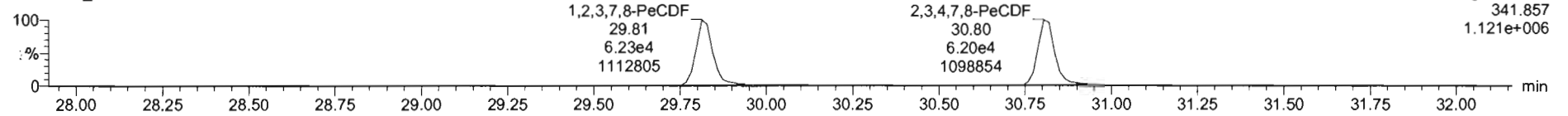
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1,2,3,7,8-PeCDF

200429R2_3



200429R2_3

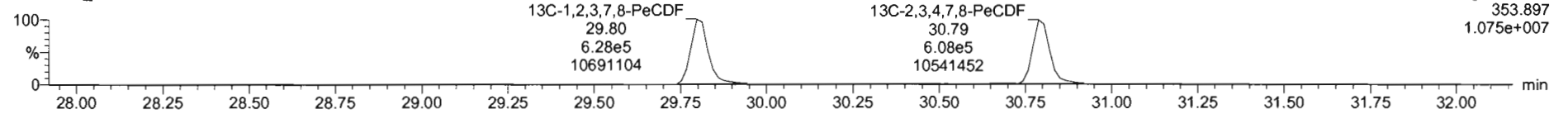


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200429R2_3

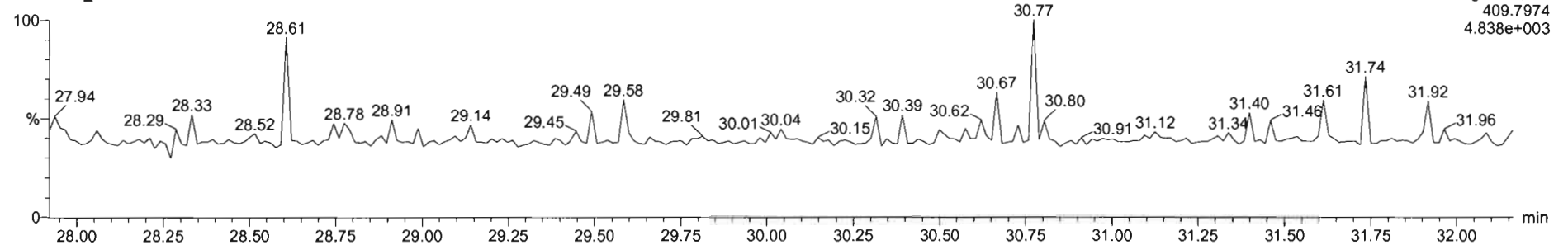


200429R2_3



DPE2

200429R2_3



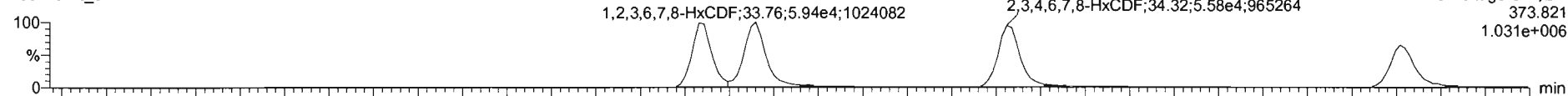
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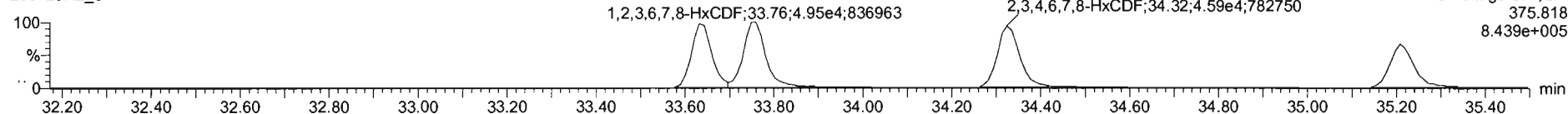
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1,2,3,4,7,8-HxCDF

200429R2_3

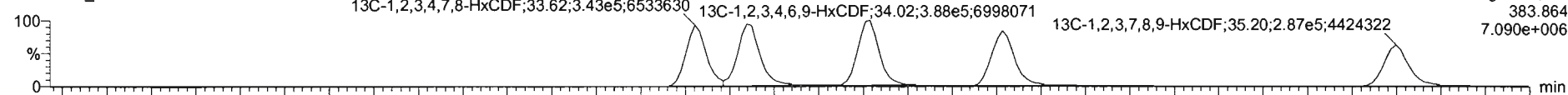


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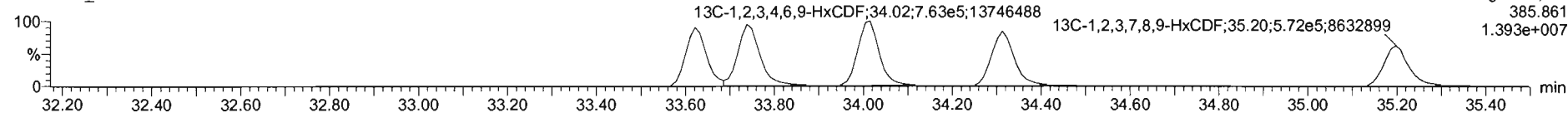


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200429R2_3

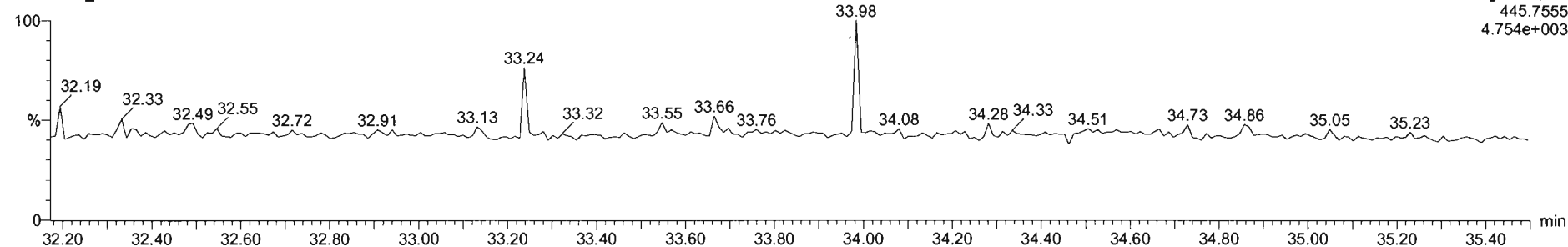


200429R2_3



DPE3

200429R2_3



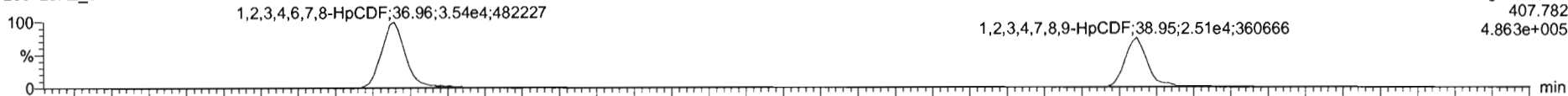
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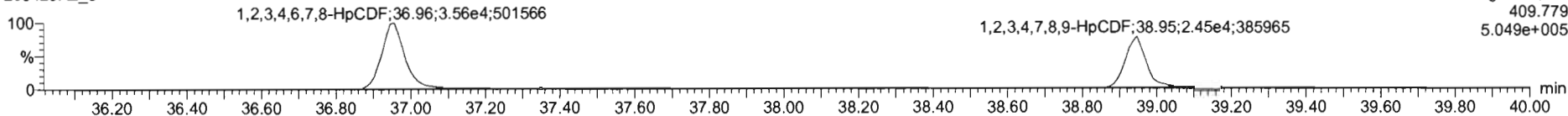
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1,2,3,4,6,7,8-HpCDF

200429R2_3

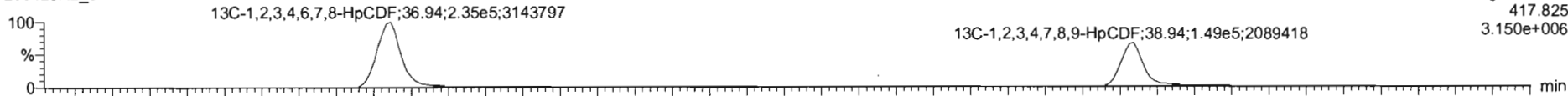


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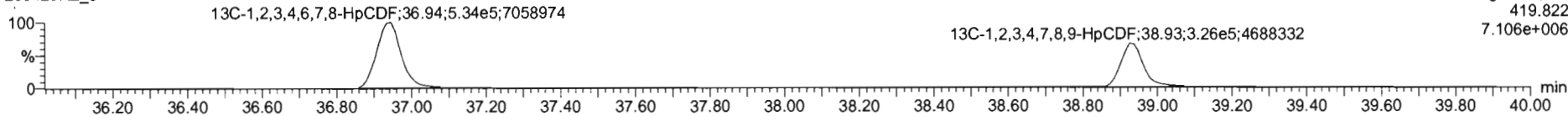


13C-1,2,3,4,6,7,8-HpCDF

200429R2_3

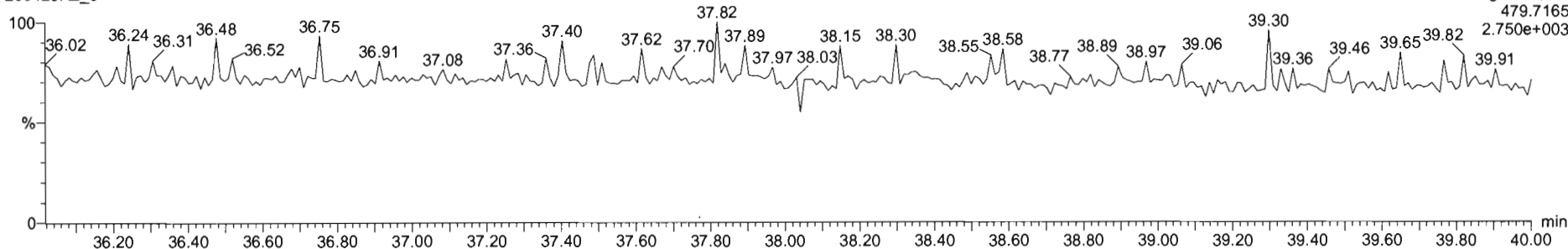


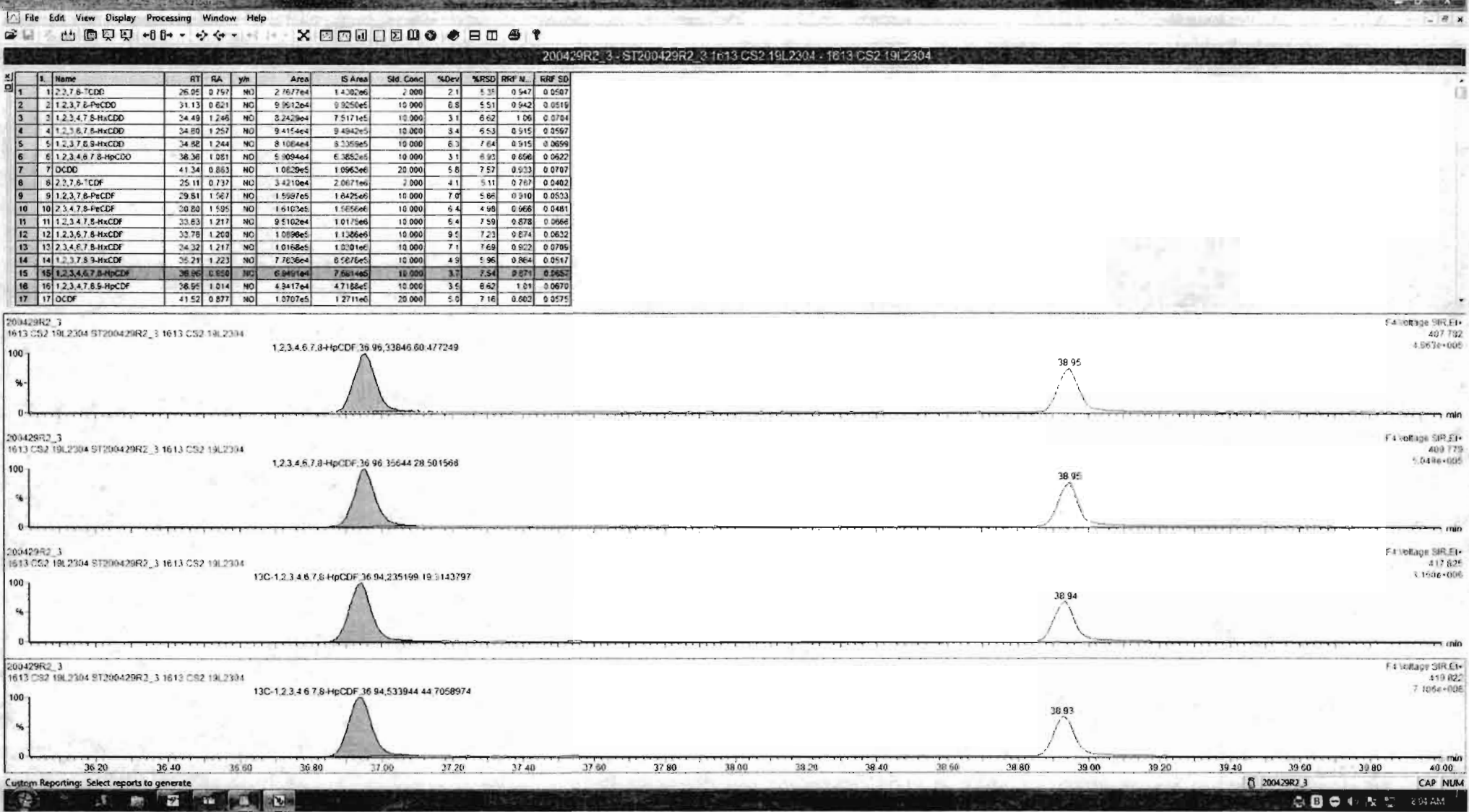
200429R2_3



DPE4

200429R2_3





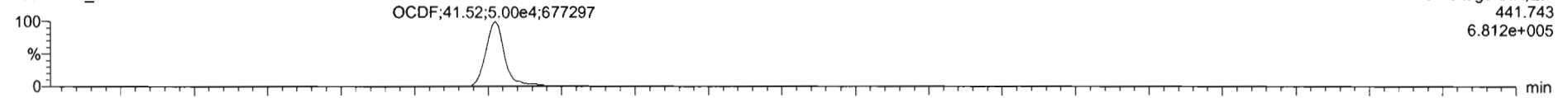
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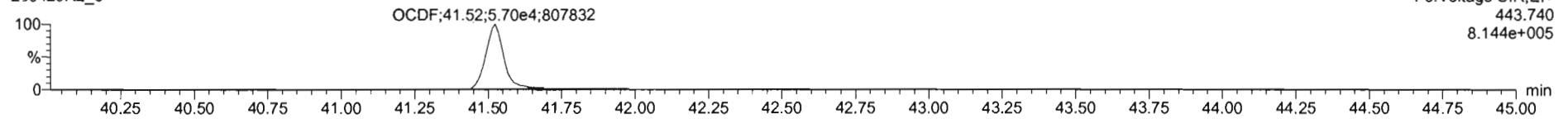
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OCDF

200429R2_3

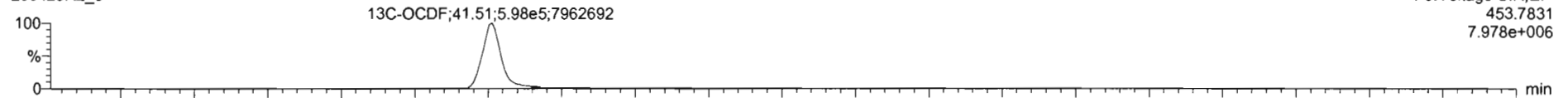


2:0429R2_3

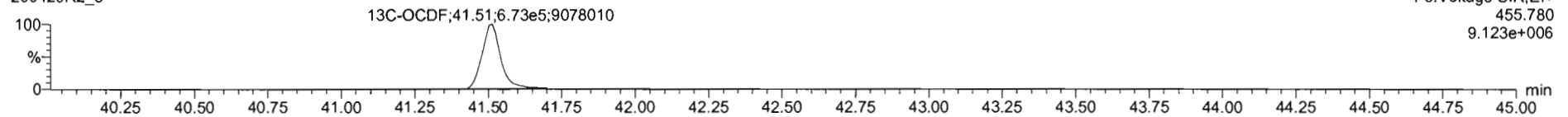


13C-OCDF

200429R2_3

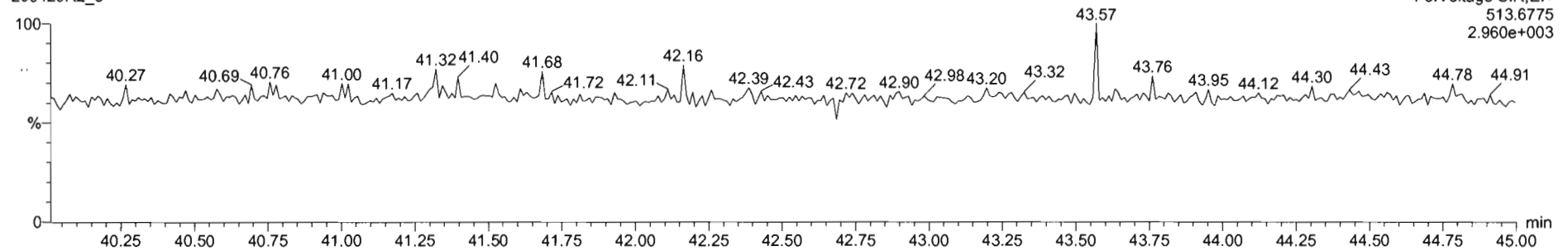


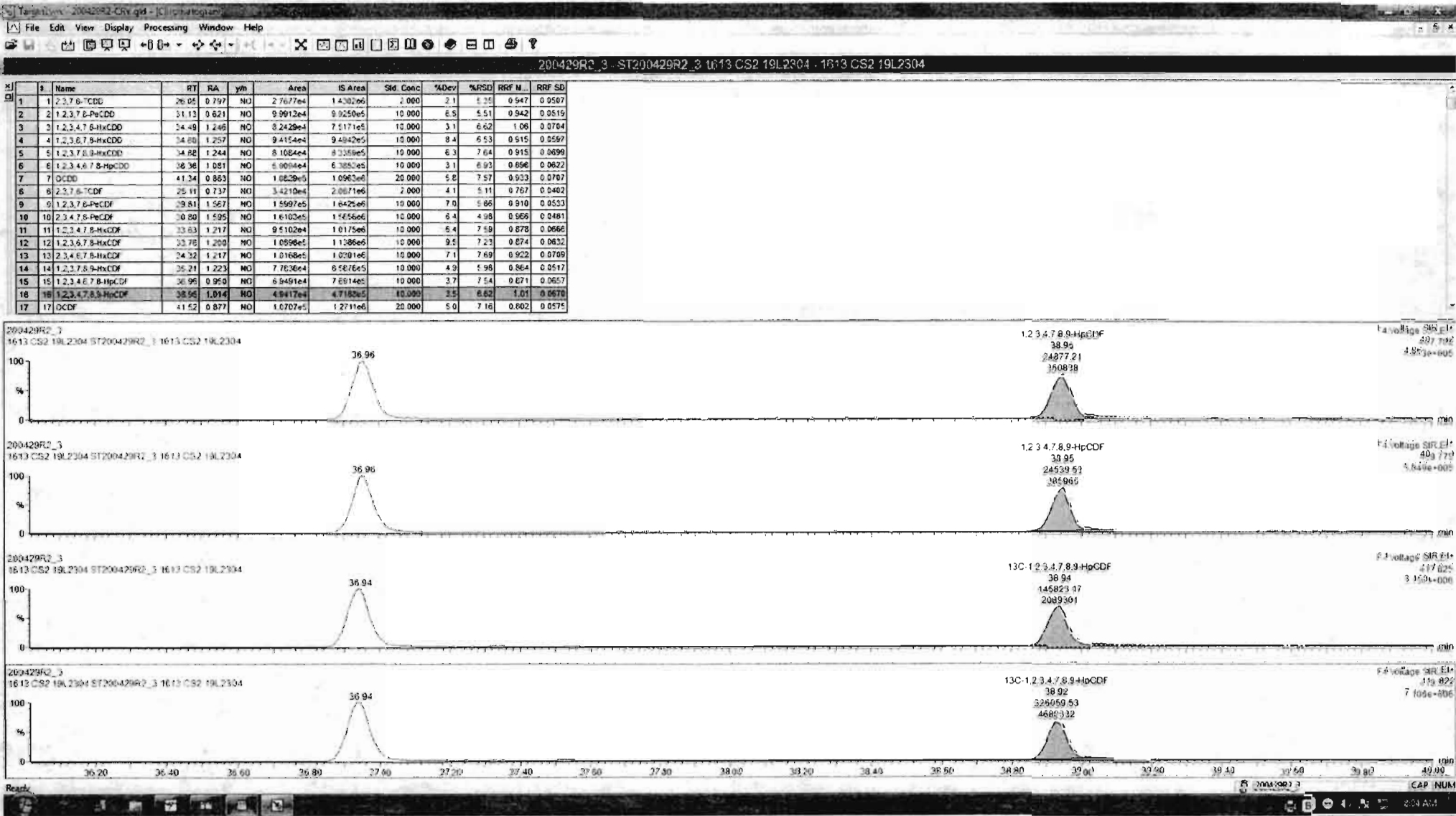
200429R2_3



DPE5

200429R2_3

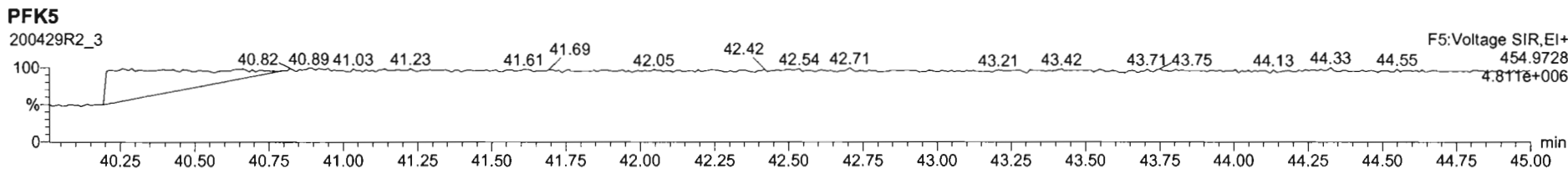
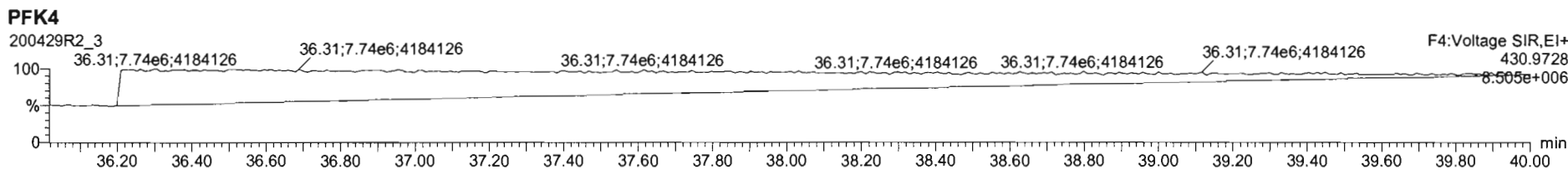
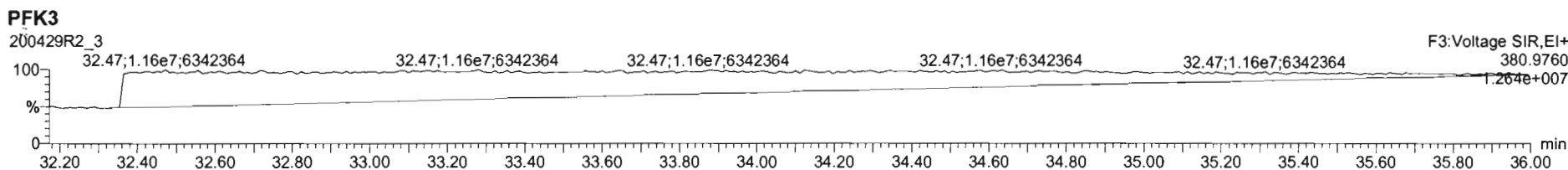
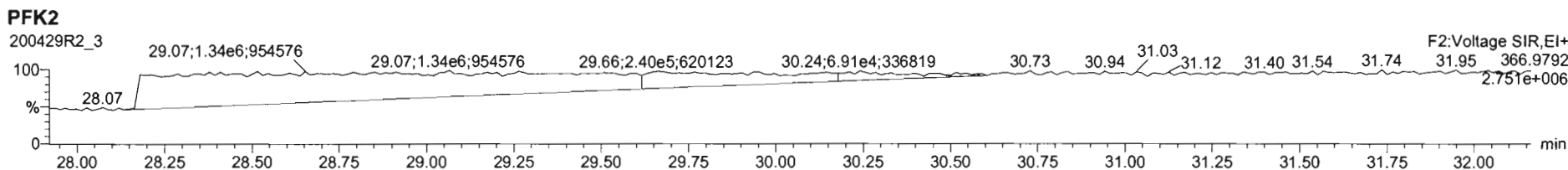
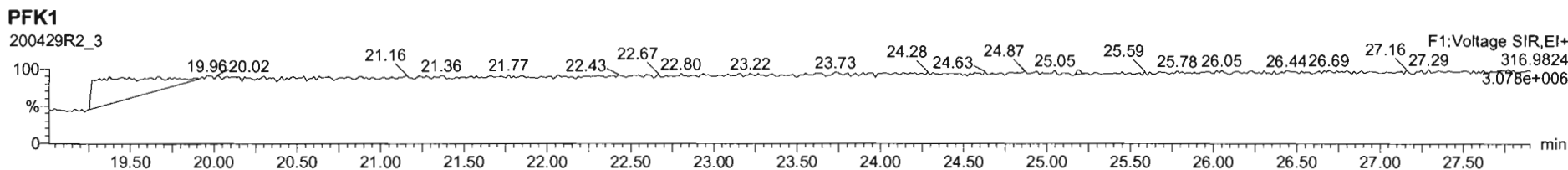




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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

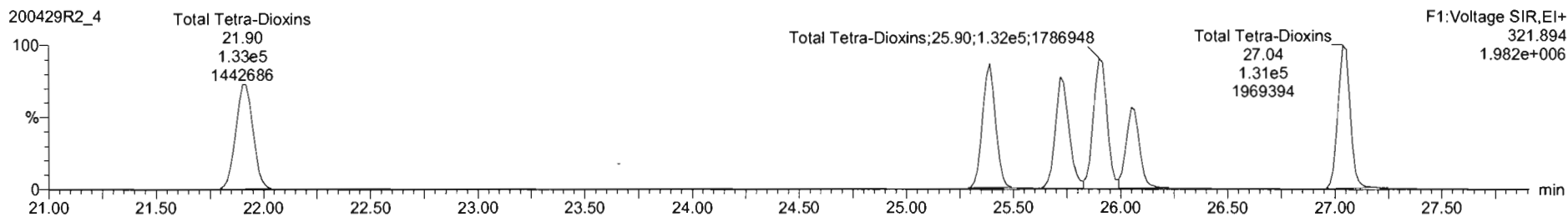
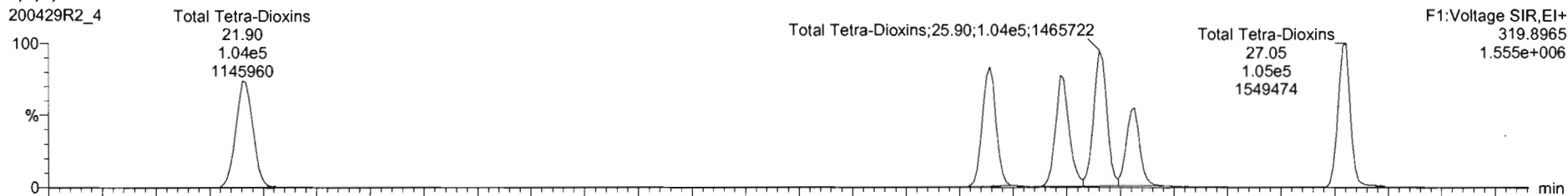


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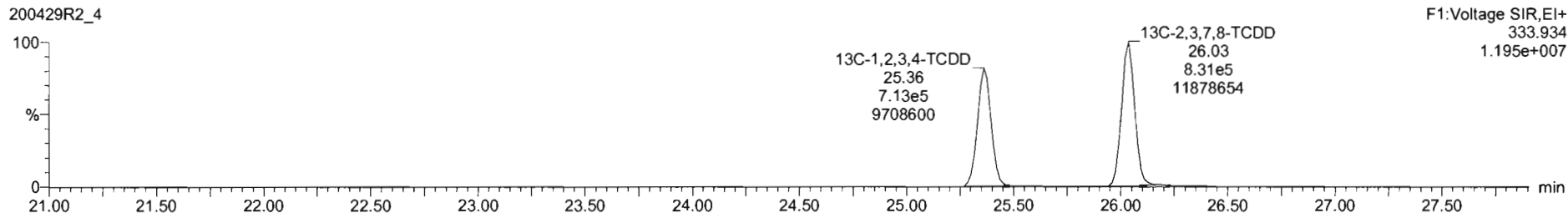
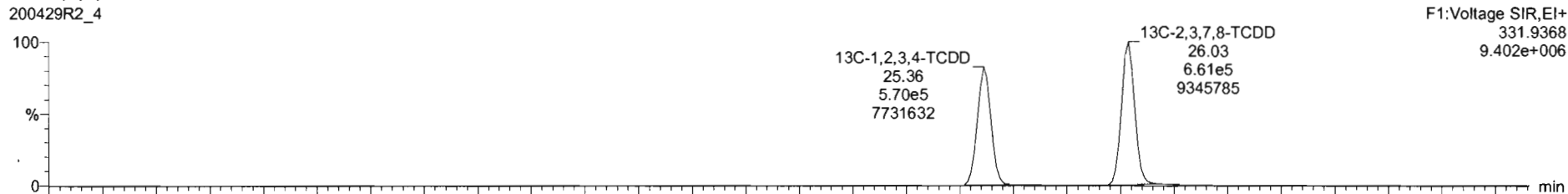
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



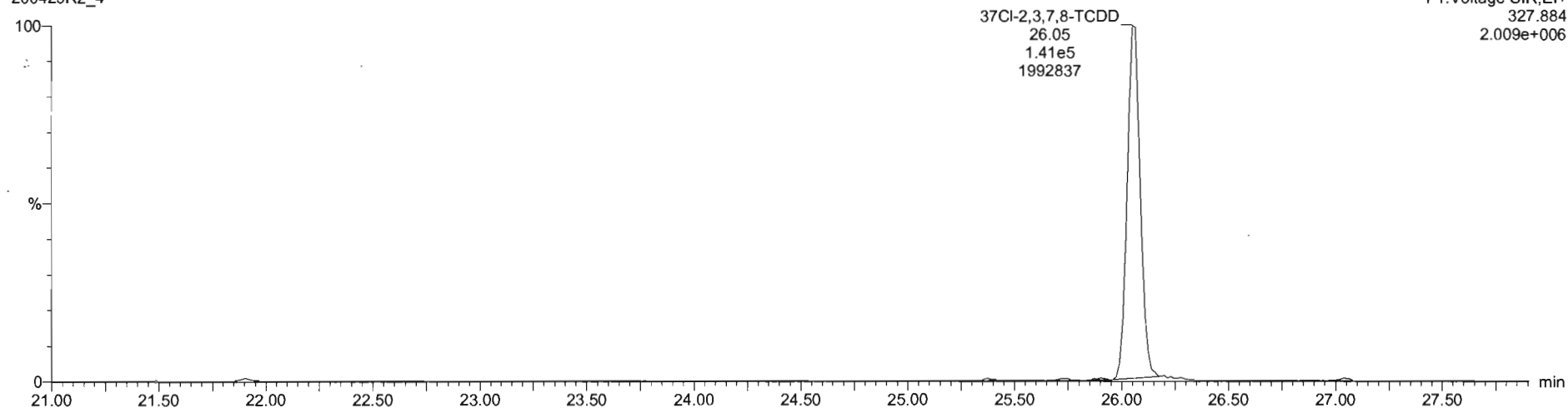
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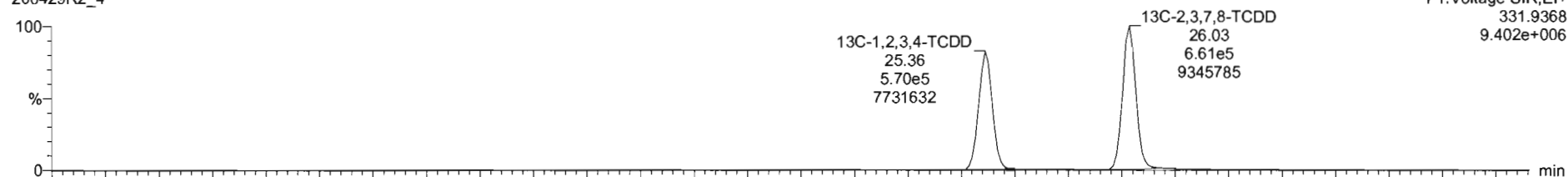
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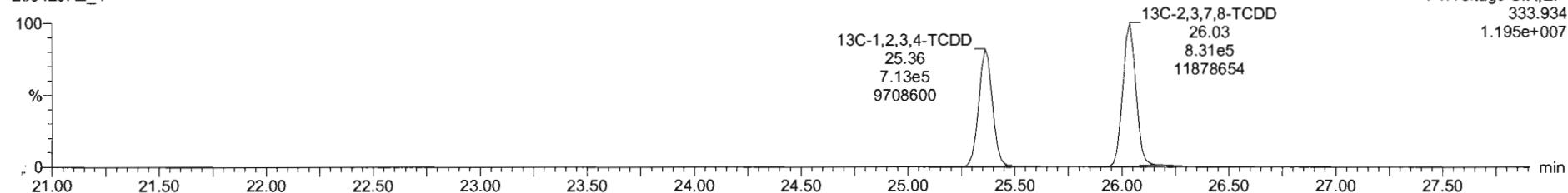


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200429R2_4



200429R2_4



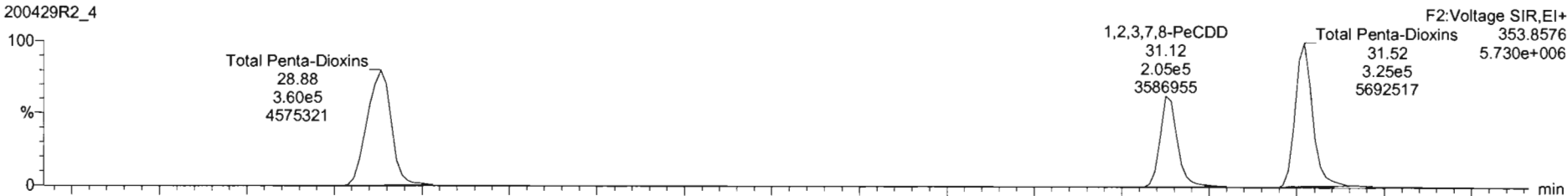
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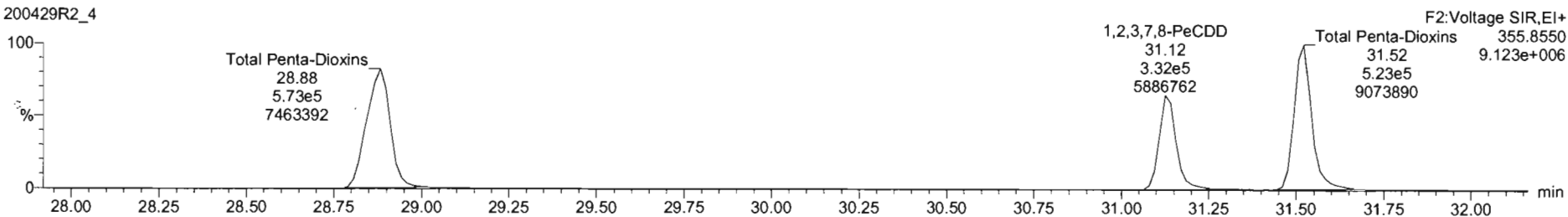
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1,2,3,7,8-PeCDD

200429R2_4

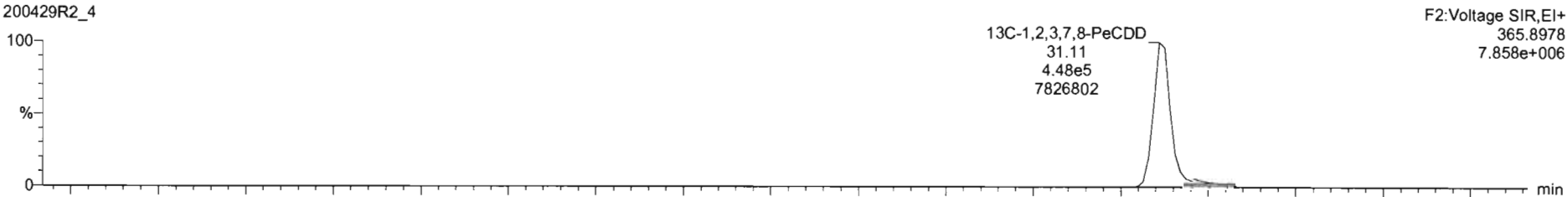


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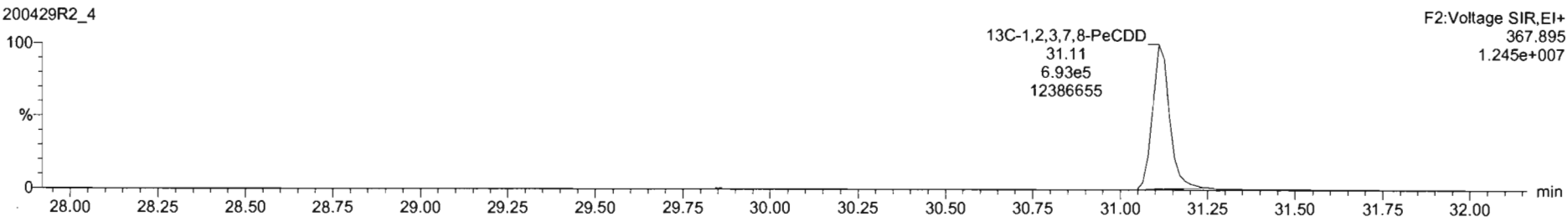


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200429R2_4



200429R2_4



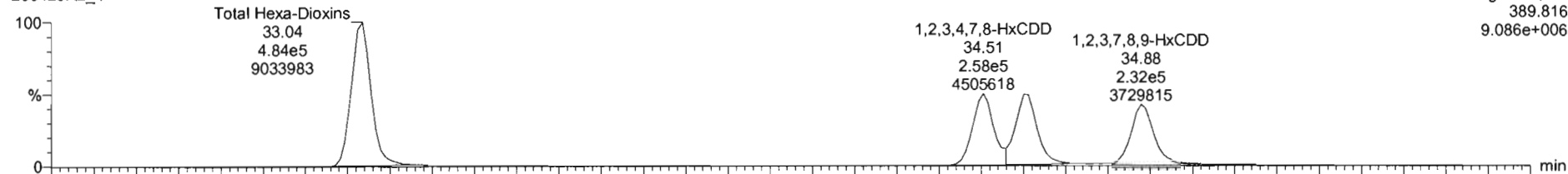
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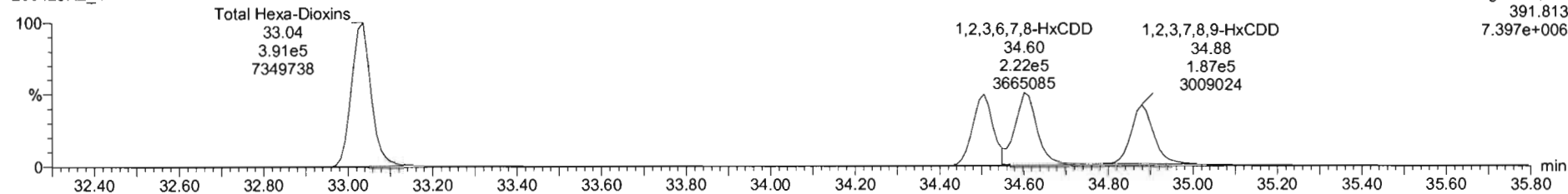
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1,2,3,4,7,8-HxCDD

200429R2_4

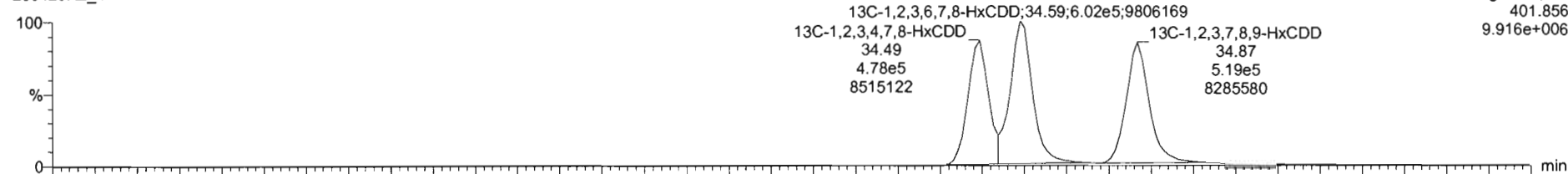


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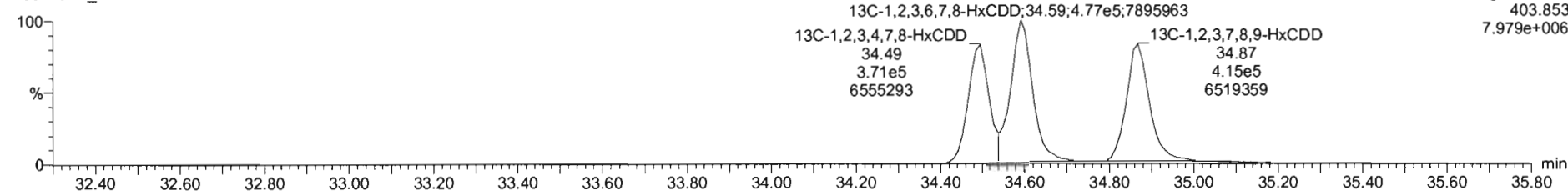


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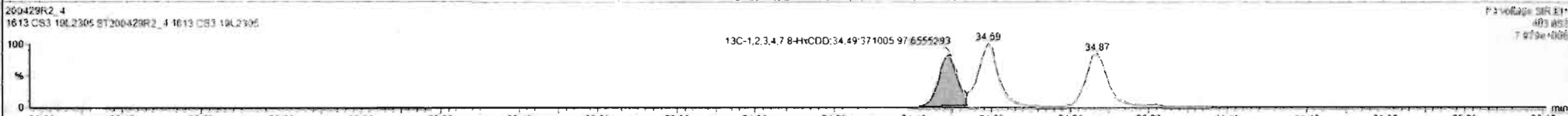
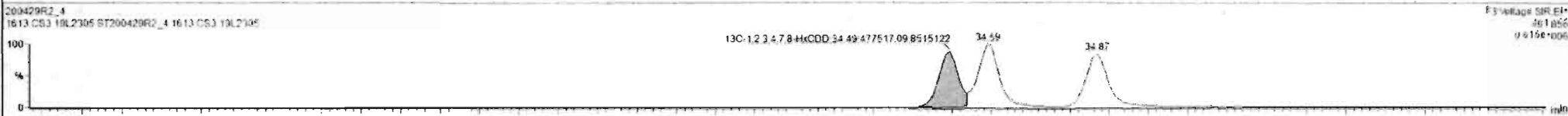
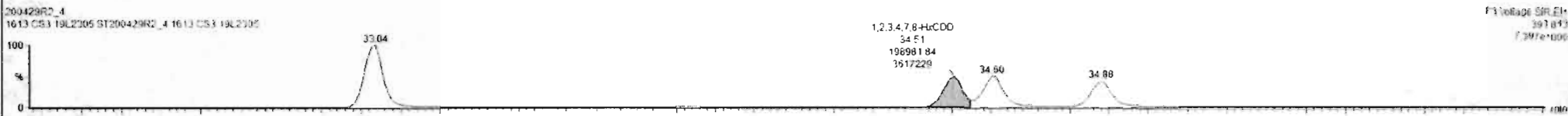
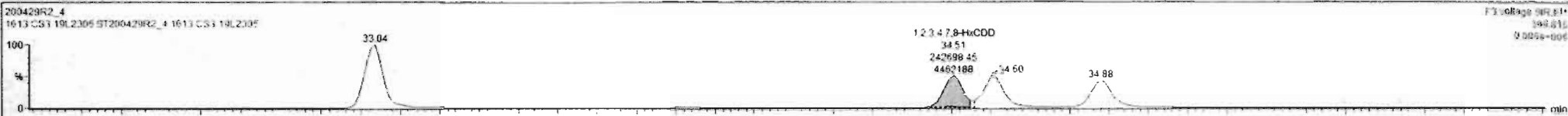
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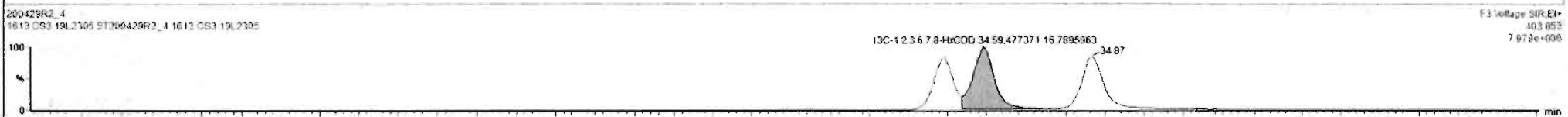
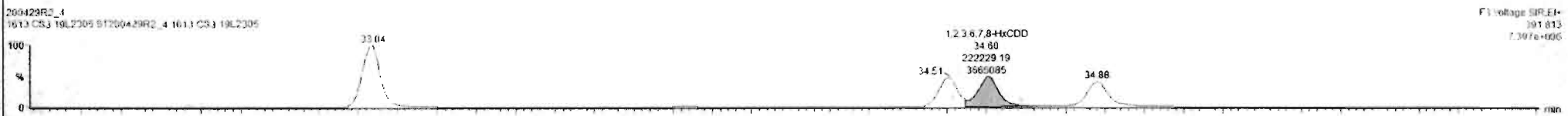
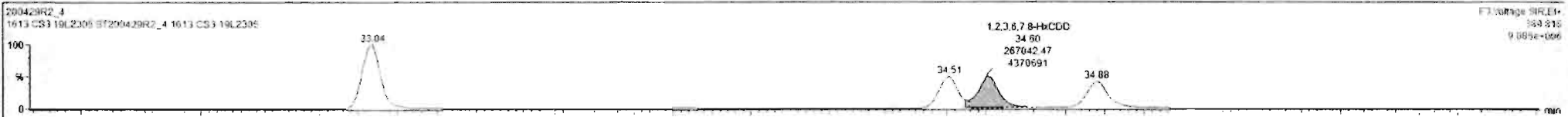
200429R2_4



#	s	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.35	0.947	0.0407
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.042	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.226	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	4	1,2,3,6,7,8-HxCDD	34.82	1.202	NO	4.8827e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0493
5	5	1,2,3,7,8,9-HxCDD	34.82	1.239	NO	4.1946e5	9.2381e5	50.000	-1.8	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	38.38	0.988	NO	3.0789e5	6.7896e5	50.000	1.0	6.93	0.696	0.0622
7	7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.5	7.57	0.939	0.0763
8	8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0462
9	9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.6862e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.666	0.0481
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5766e5	1.2611e6	50.000	1.2	7.23	0.874	0.0633
13	13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.68	0.902	0.0765
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.98	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0653
16	16	1,2,3,4,7,8,9-HxCDF	38.96	0.998	NO	2.5972e5	5.1182e5	50.000	0.3	6.62	1.01	0.0679
17	17	OCDF	41.53	0.862	NO	5.3038e5	1.3196e6	100.000	1.3	7.16	0.863	0.0575



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3879e5	1.1411e6	50.000	0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8027e5	1.0736e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.98	1.239	NO	4.1946e5	9.2381e5	50.000	-1.5	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.38	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.25	0.879	NO	5.6237e5	1.1777e6	100.000	2.3	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1451e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.6822e6	50.000	0.0	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.9179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.75	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.674	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2624e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.602	0.0575



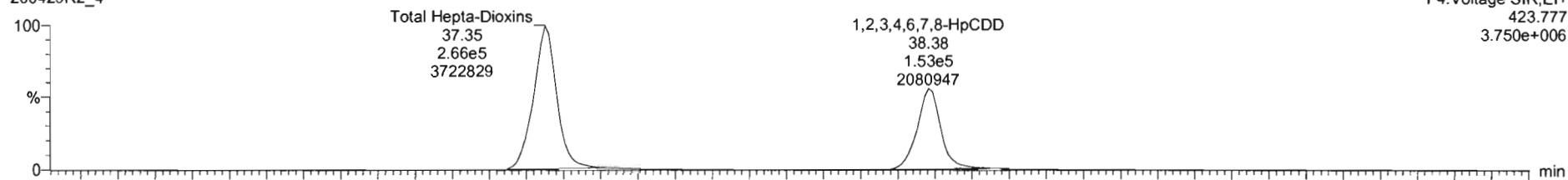
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

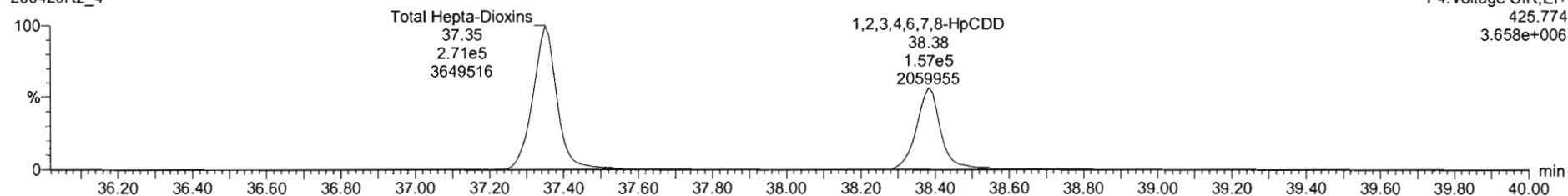
1,2,3,4,6,7,8-HpCDD

200429R2_4



F4:Voltage SIR,EI+
423.777
3.750e+006

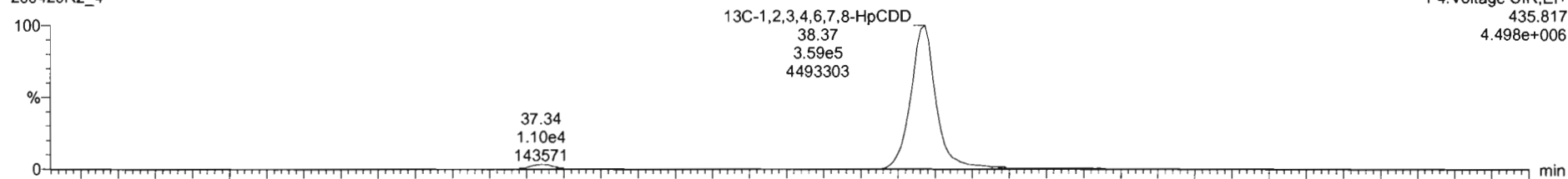
200429R2_4



F4:Voltage SIR,EI+
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3.658e+006

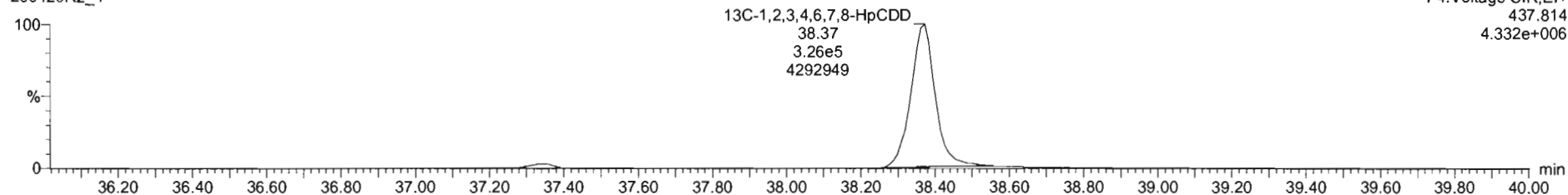
13C-1,2,3,4,6,7,8-HpCDD

200429R2_4



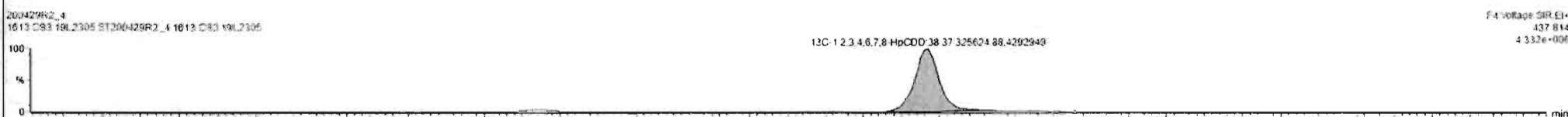
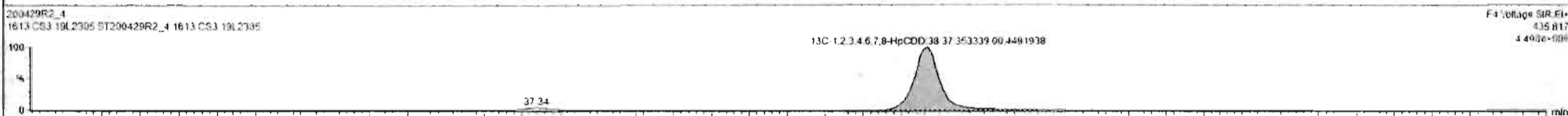
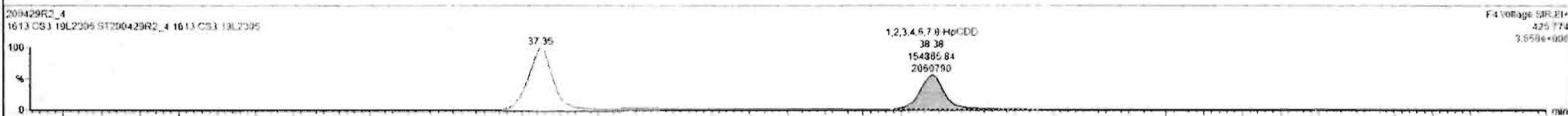
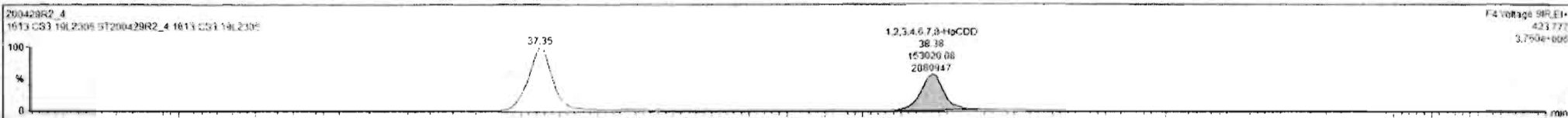
F4:Voltage SIR,EI+
435.817
4.498e+006

200429R2_4



F4:Voltage SIR,EI+
437.814
4.332e+006

#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,6-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.51	1.229	NO	4.4168e5	8.4852e5	50.000	2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.00	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.98	1.219	NO	4.1946e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.36	0.968	NO	3.0769e5	6.7096e5	50.000	1.0	6.93	0.898	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.8662e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	29.00	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	24.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2634e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	8.6486e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.06	0.998	NO	2.6973e5	5.1185e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

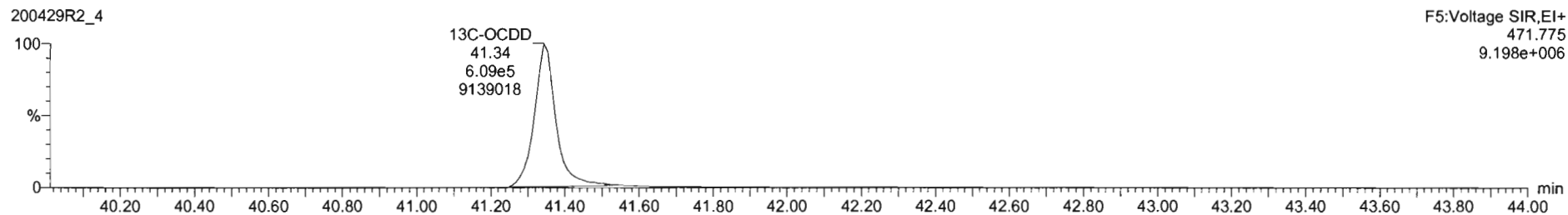
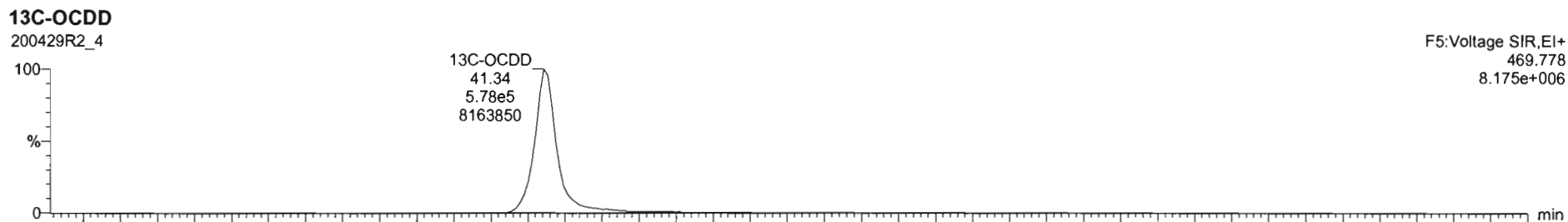
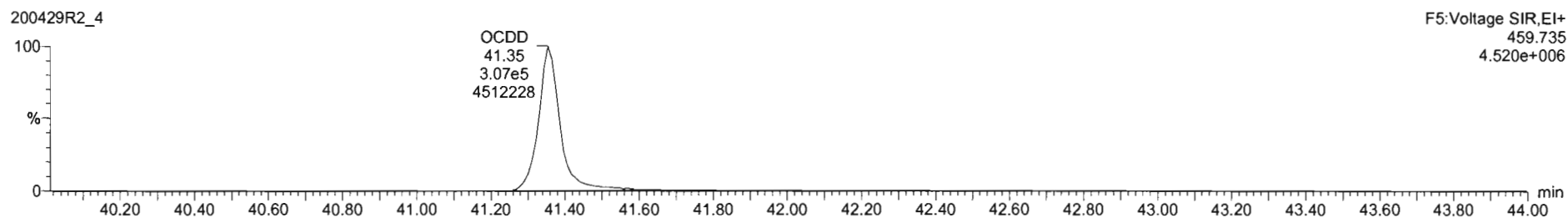
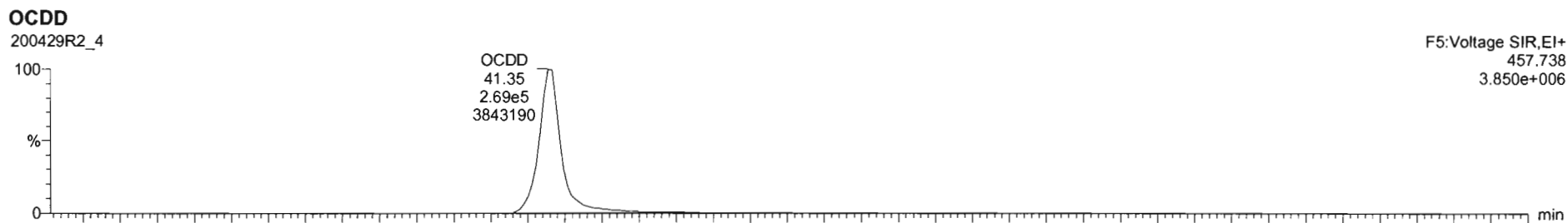
200429R2_4

CAP NUM

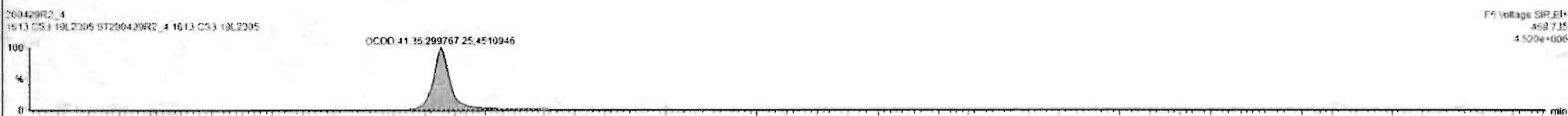
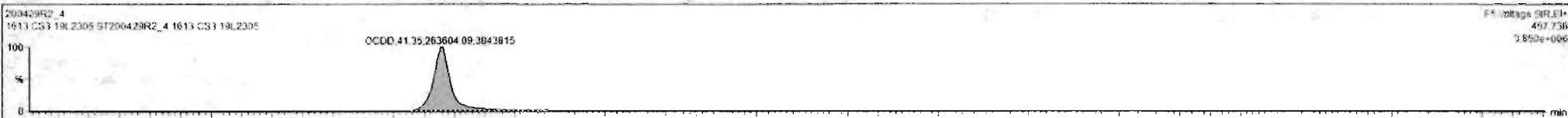
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
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Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4920e5	10.000	0.8	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.239	NO	4.1546e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	36.36	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.656	0.0622
7	OCDD	41.35	0.879	NO	5.8337e5	1.1777e6	100.000	2.5	7.57	0.833	0.0261
8	2,2,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.8722e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5706e5	1.2811e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1299e6	50.000	3.2	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1183e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



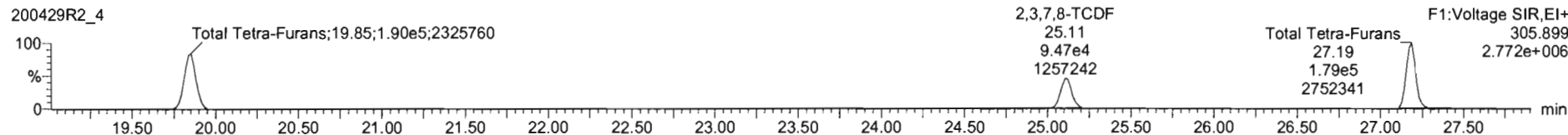
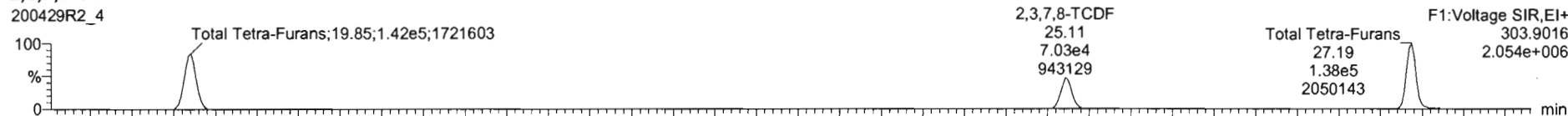
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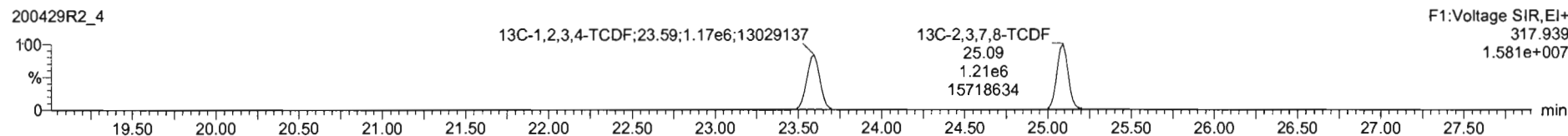
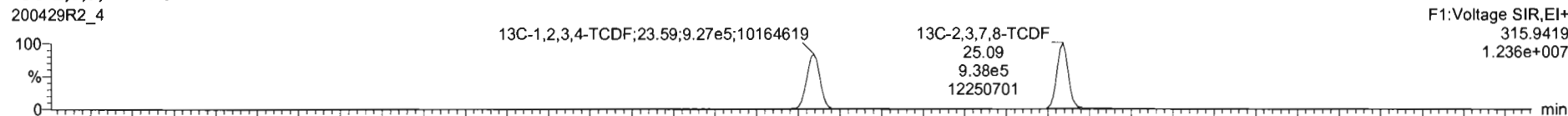
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

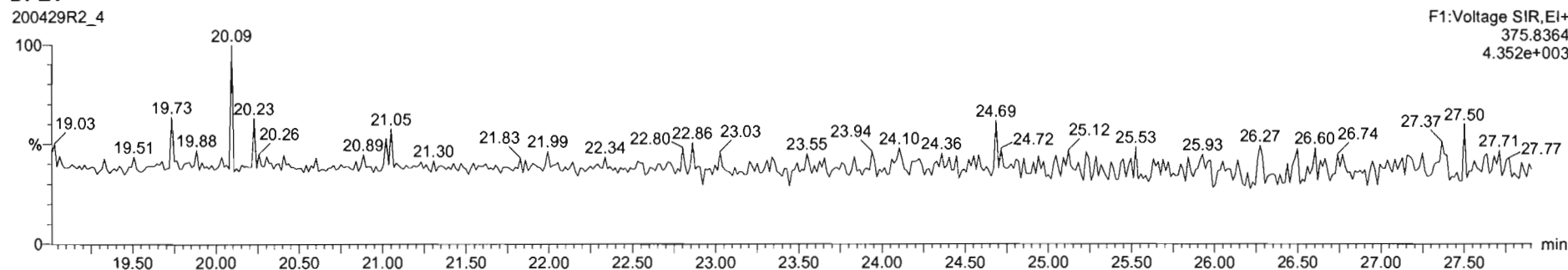
2,3,7,8-TCDF



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



DPE1



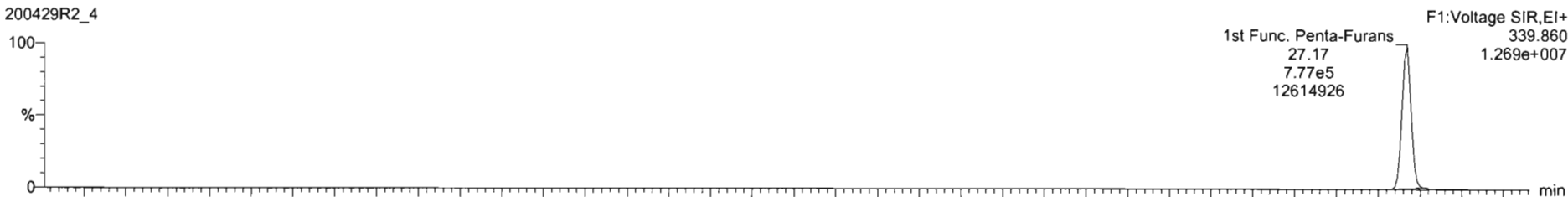
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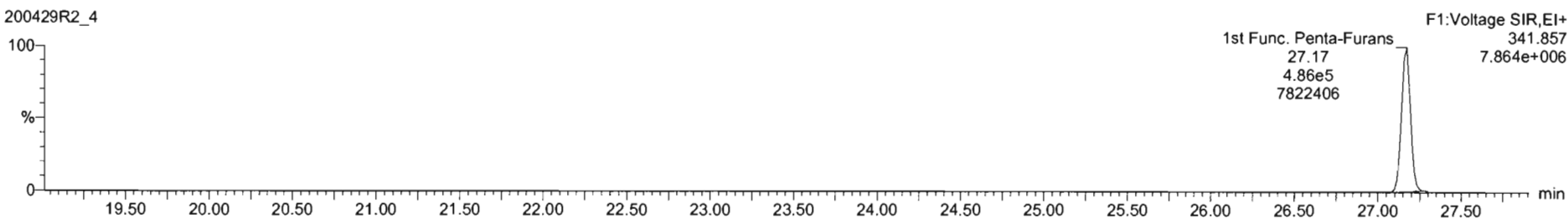
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200429R2_4

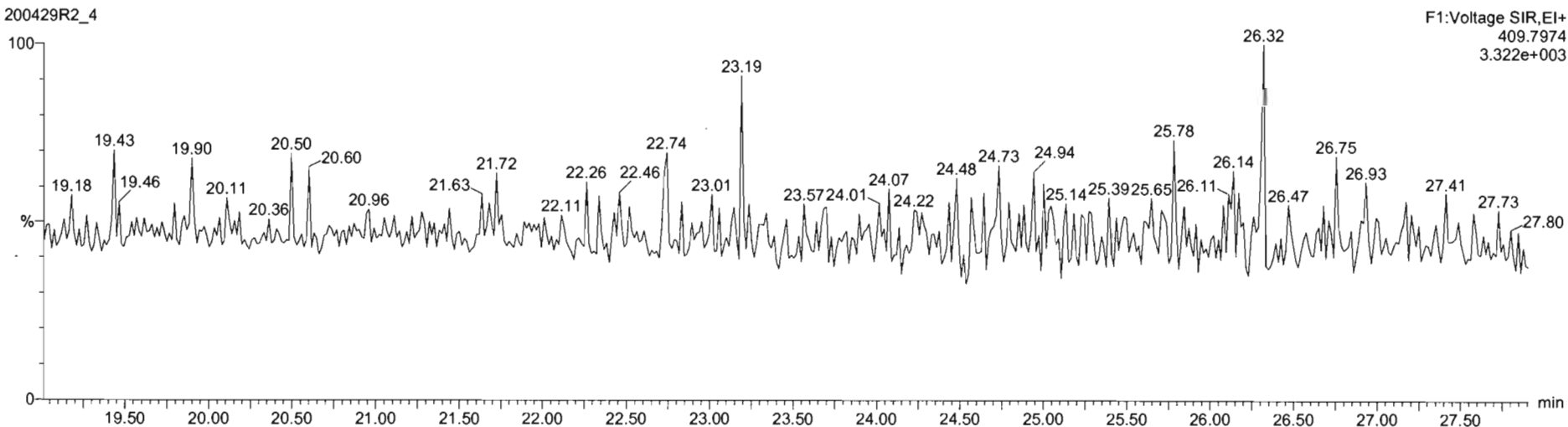


200429R2_4



DPE6

200429R2_4



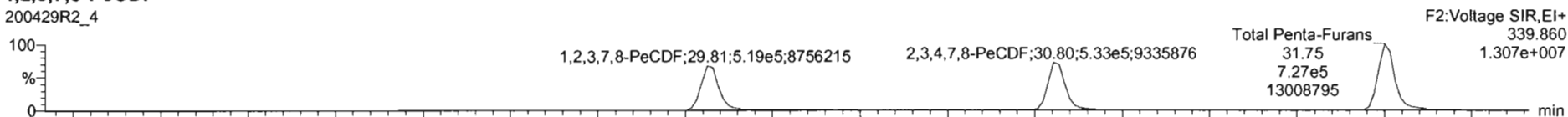
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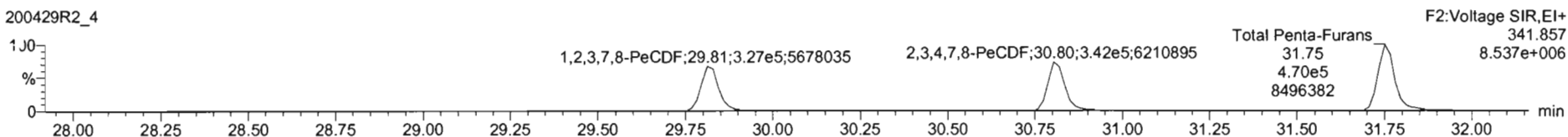
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1,2,3,7,8-PeCDF

200429R2_4

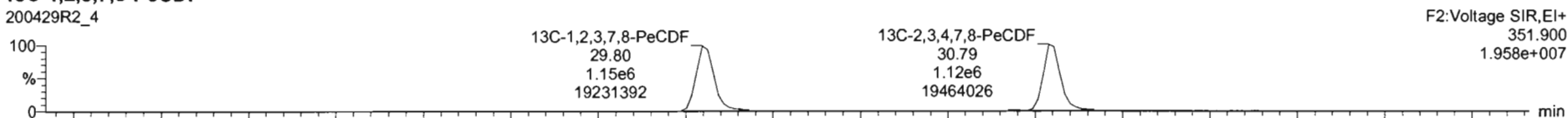


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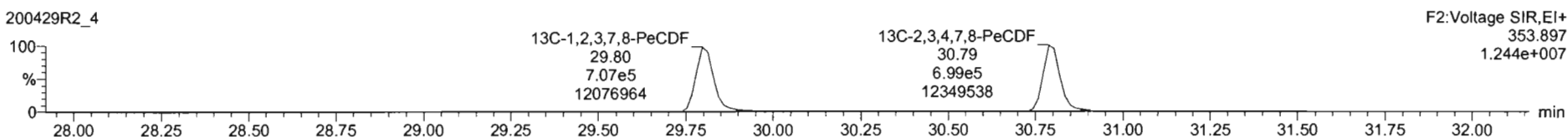


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200429R2_4

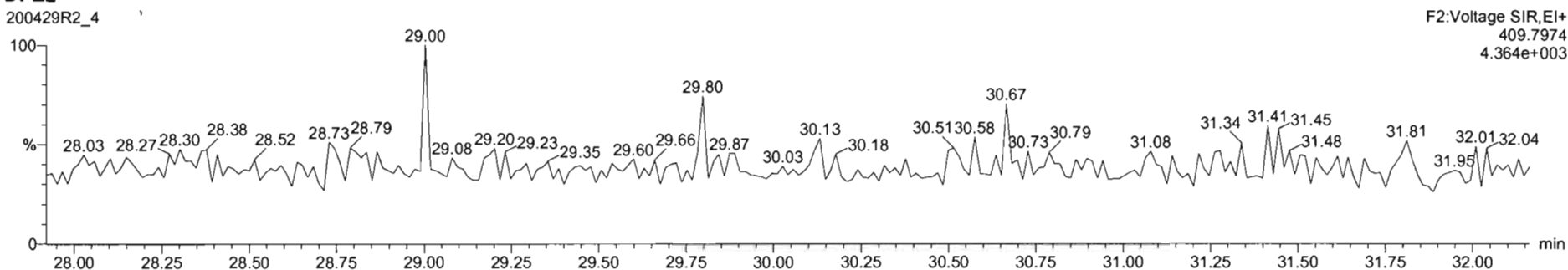


200429R2_4



DPE2

200429R2_4

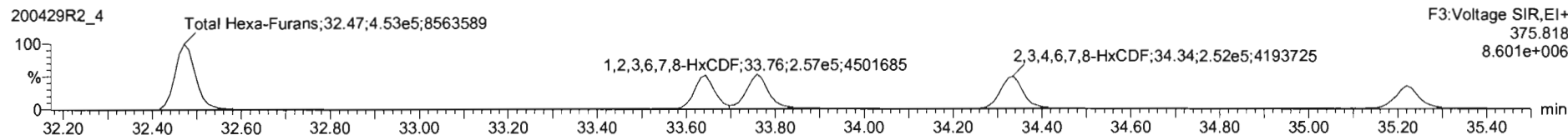
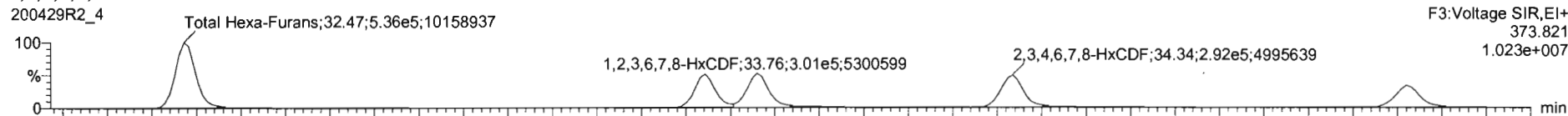


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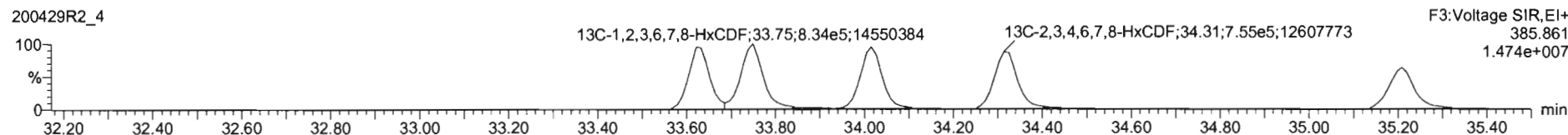
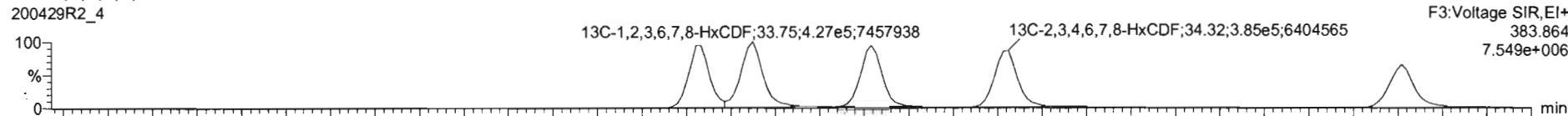
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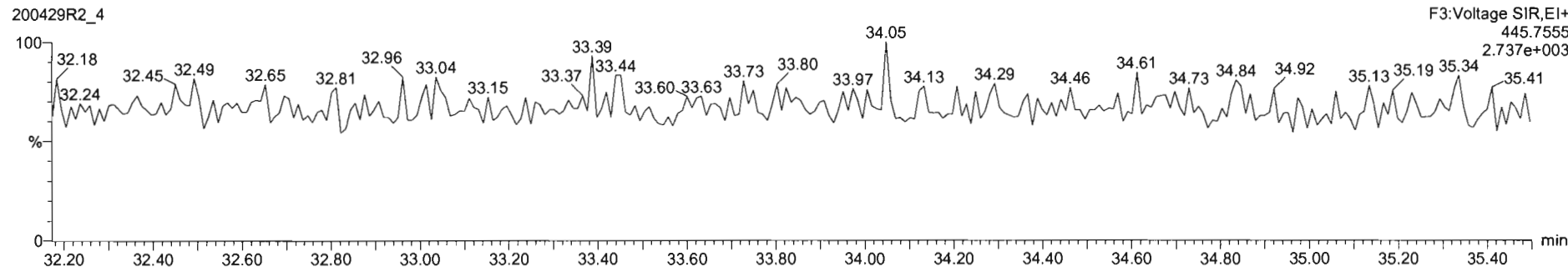
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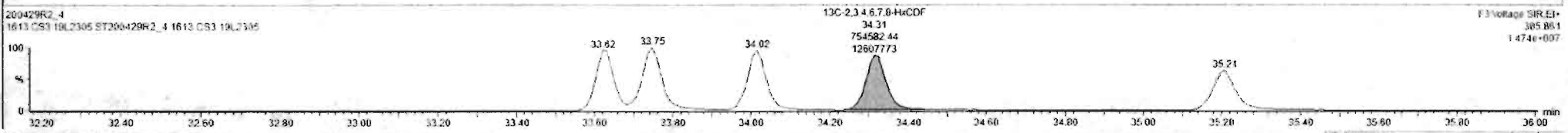
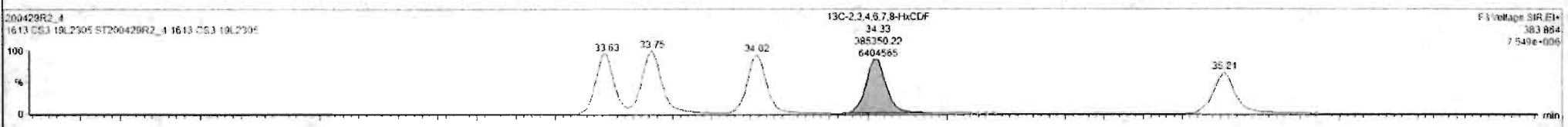
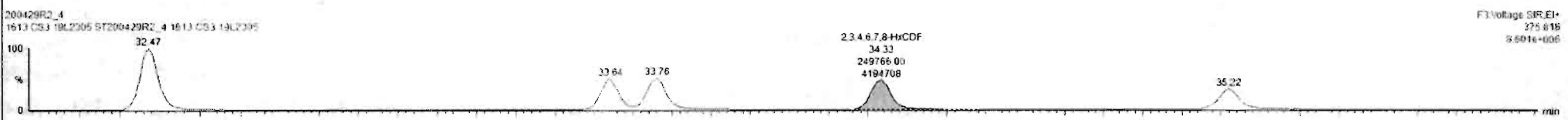
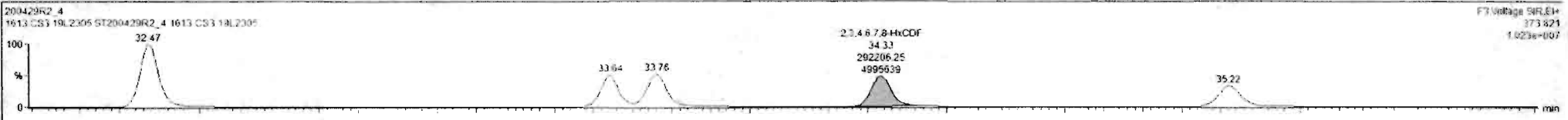
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DPE3

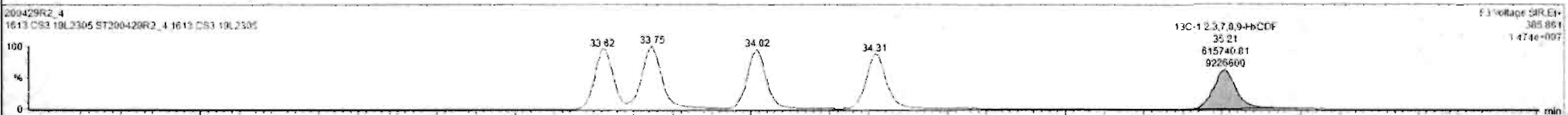
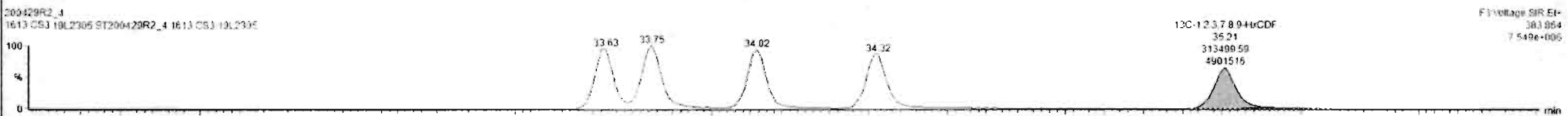
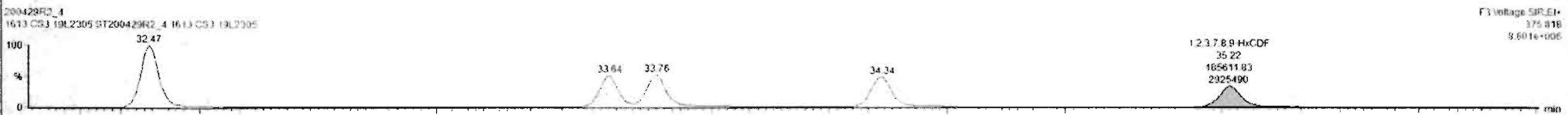


#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%PSD	RRF M.L.	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4850e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8907e5	1.0790e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.219	NO	4.1946e5	9.5281e5	50.000	-1.8	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.36	0.988	NO	3.0769e5	6.7806e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e5	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.089	NO	8.4785e5	1.6762e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.90	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1230e6	50.000	1.1	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.75	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.874	0.0652
13	2,3,4,6,7,8-HxCDF	34.33	1.171	NO	5.4192e5	1.1399e6	50.000	3.2	7.89	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.7	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.97	0.952	NO	3.7224e5	6.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1832e5	50.000	0.3	4.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3188e6	100.000	1.3	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,2,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.8	1.35	0.647	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.2678e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	24.51	1.220	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.202	NO	4.8027e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	24.98	1.219	NO	4.1646e5	9.3381e5	50.000	-1.5	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.38	0.988	NO	2.0769e5	6.7896e5	50.000	1.0	6.92	0.856	0.0622
7	OCDD	41.25	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.613	0.0707
8	2,2,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1691e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4165e5	1.6682e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.6312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.23	1.170	NO	5.4197e5	1.1396e6	50.000	3.1	7.69	0.902	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.164	IB	4.6244e5	9.2024e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7234e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5973e5	5.1182e5	50.000	0.3	6.82	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.1650e5	1.3198e6	100.000	1.5	7.16	0.802	0.0575



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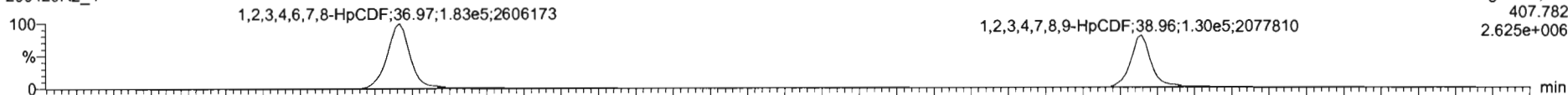
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

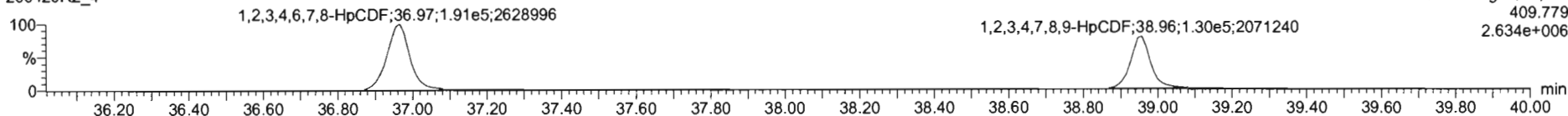
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1,2,3,4,6,7,8-HpCDF

200429R2_4

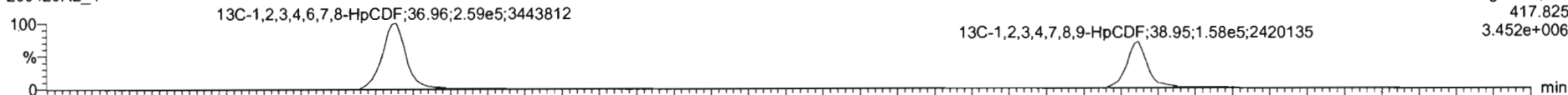


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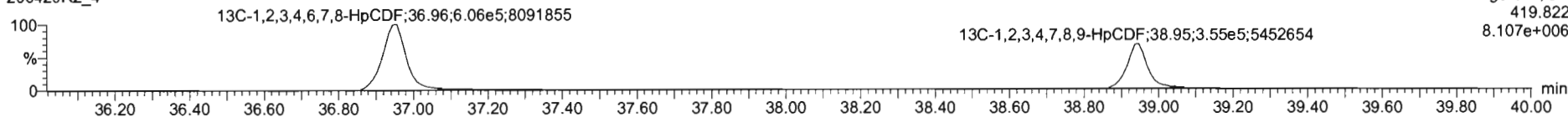


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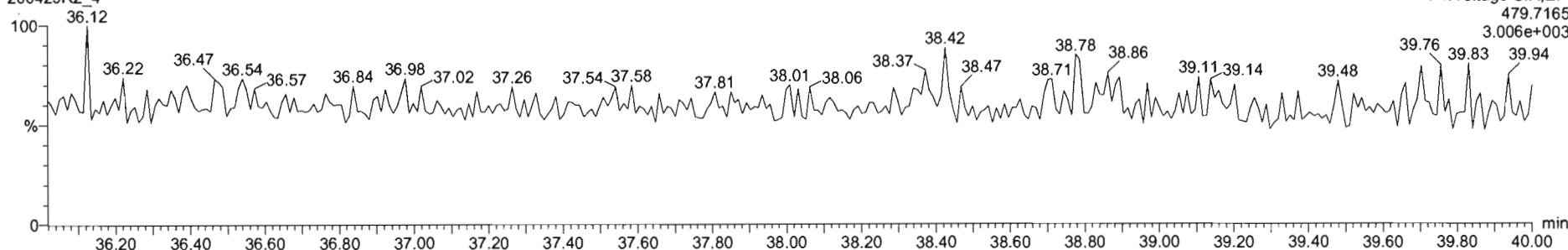


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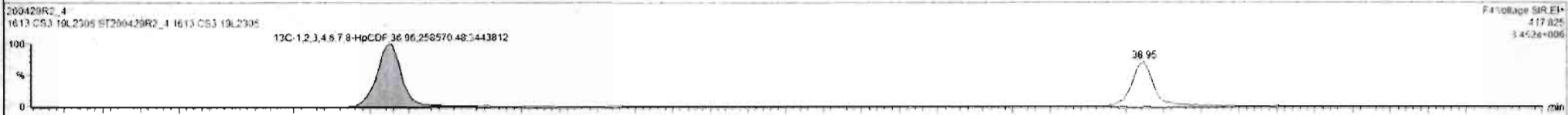
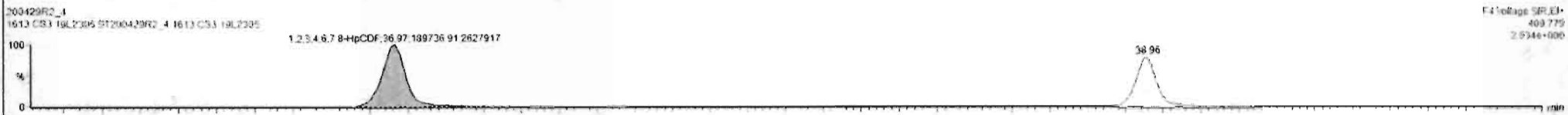


DPE4

200429R2_4

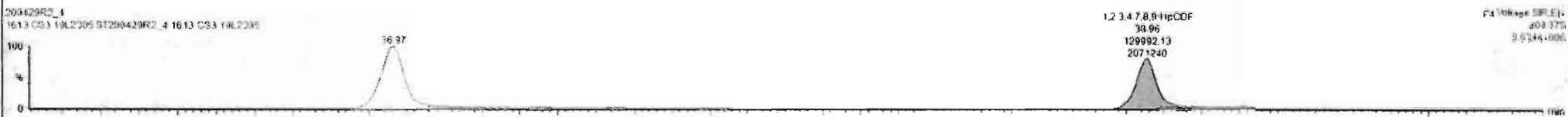
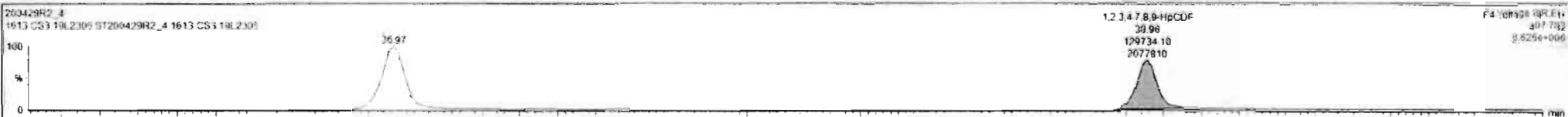


#	s	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4820e6	10.000	0.8	5.25	0.947	0.0507
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4160e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.6796e6	50.000	-0.9	6.53	0.915	0.0597
5	5	1,2,3,7,8,9-HxCDD	34.88	1.238	NO	4.1946e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	36.36	0.988	NO	3.0769e5	6.7896e5	50.000	1.0	6.90	0.856	0.0622
7	7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.8	7.57	0.933	0.0767
8	8	1,2,3,7,8-TCDF	25.11	0.743	NO	1.8505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4565e5	1.6562e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.558	NO	8.7458e5	1.6179e6	50.000	-0.4	4.98	0.966	0.0461
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	13	1,2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4191e5	1.1799e6	50.000	3.2	7.69	0.922	0.0709
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.87	0.862	NO	3.7234e5	6.6465e5	50.000	-1.2	7.54	0.871	0.0657
16	16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5673e5	5.1182e5	50.000	0.3	6.62	1.01	0.0670
17	17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0562
5	1,2,3,7,8,9-HxCDD	34.68	1.213	NO	4.1946e5	9.3815e5	50.000	-1.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	0.988	NO	3.0765e5	6.7896e5	50.000	1.0	8.93	0.896	0.0622
7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.5	7.57	0.933	0.0707
8	2,2,7,8-TCDF	25.11	0.743	NO	1.8505e5	2.1491e5	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.6581e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.98	0.968	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2E11e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1999e6	50.000	3.2	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7274e5	8.6485e5	50.000	-1.2	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HxCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.7639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575



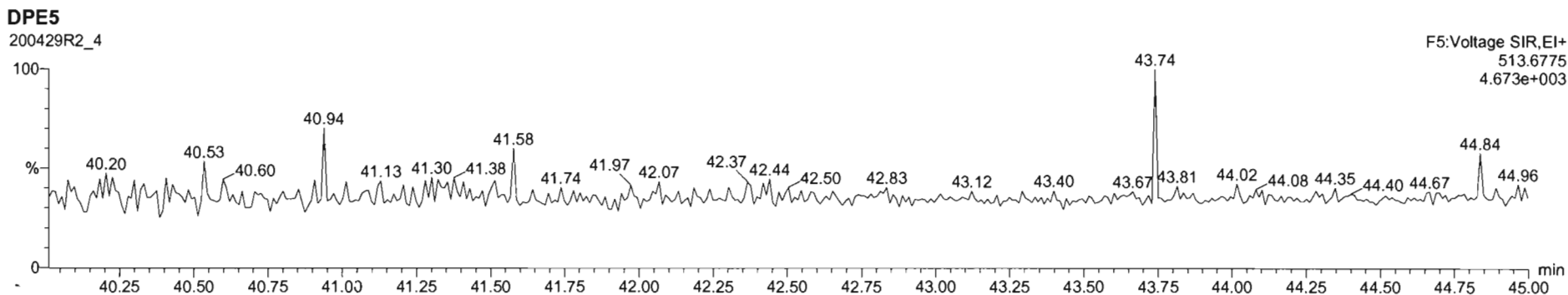
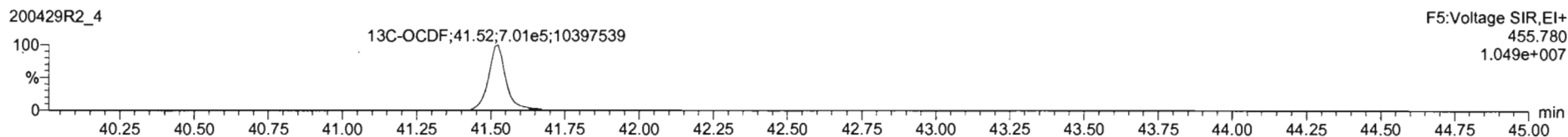
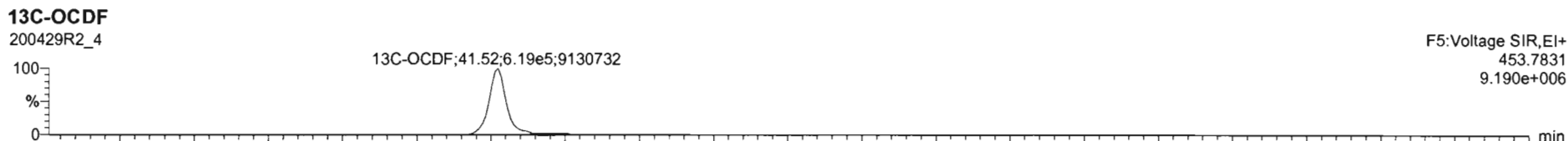
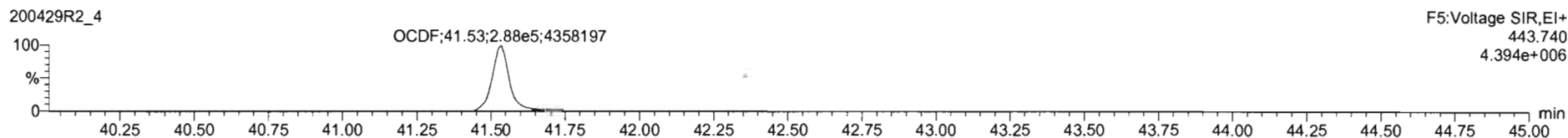
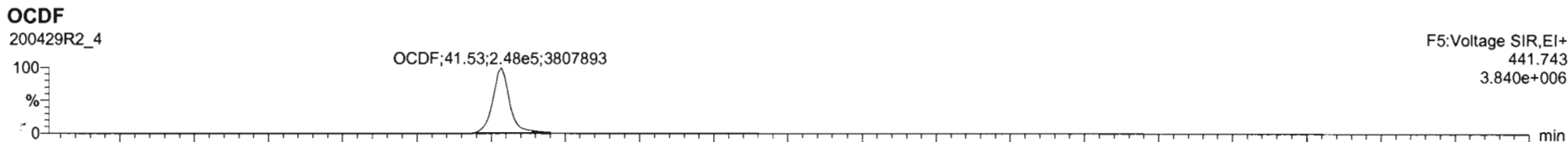
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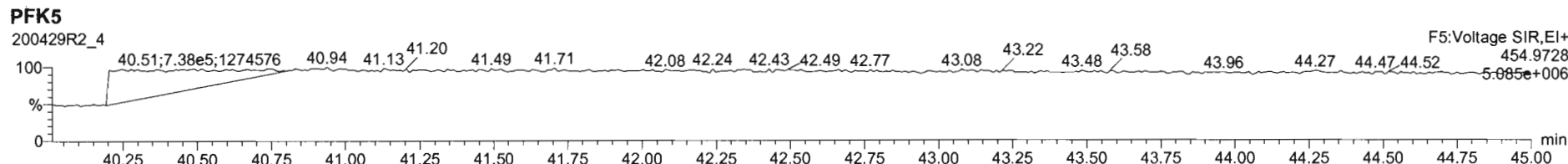
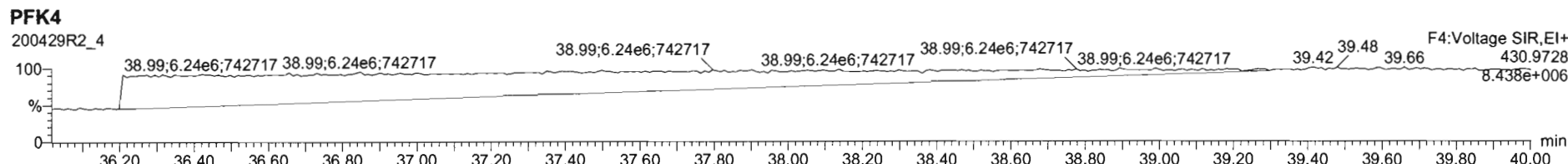
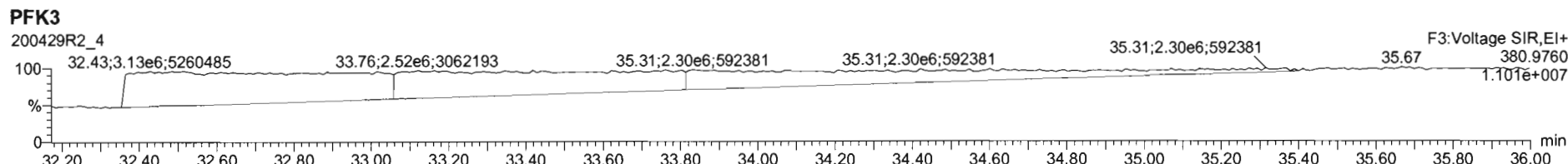
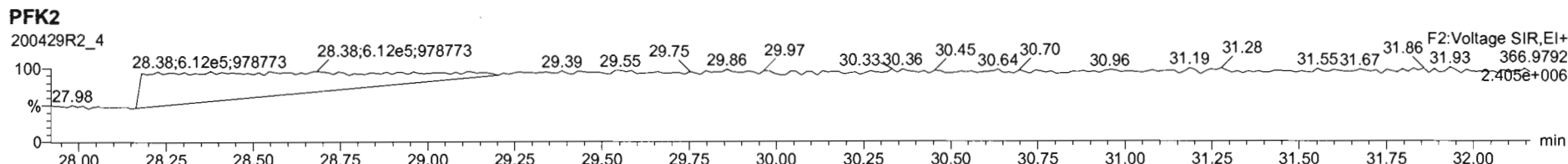
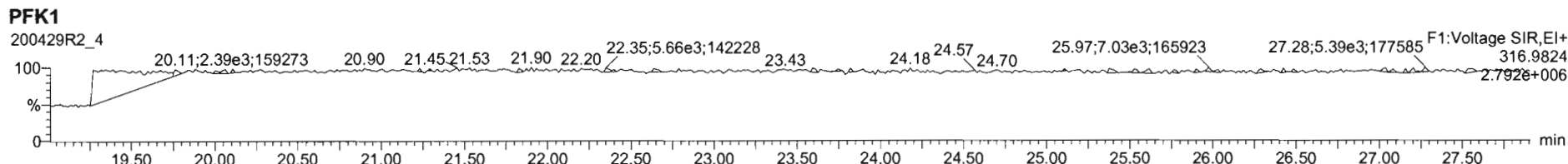
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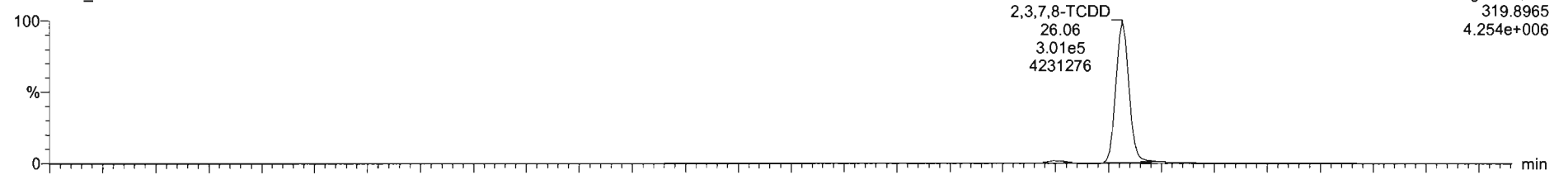
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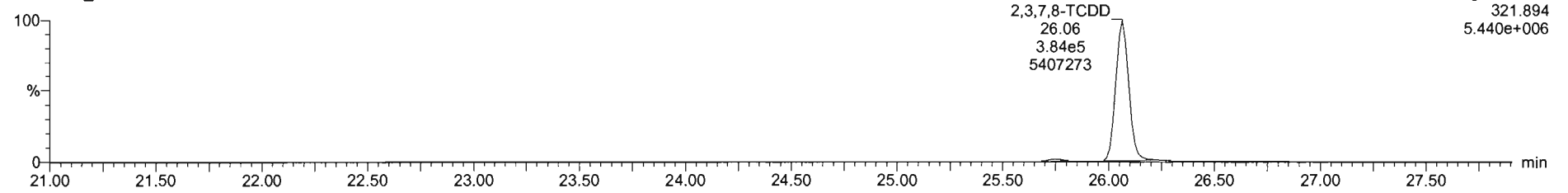
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2,3,7,8-TCDD

200429R2_5

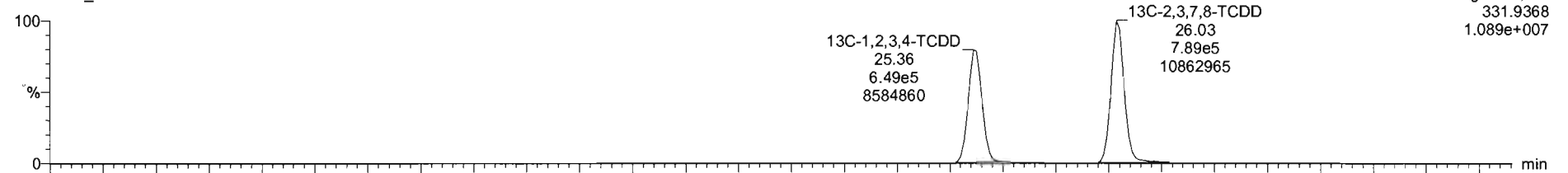


200429R2_5

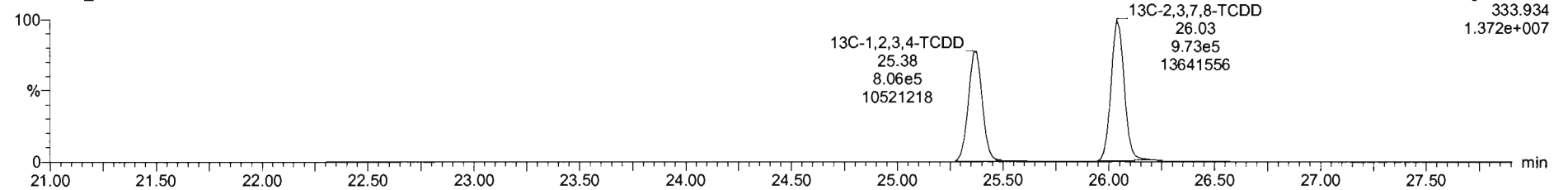


13C-2,3,7,8-TCDD

200429R2_5



200429R2_5



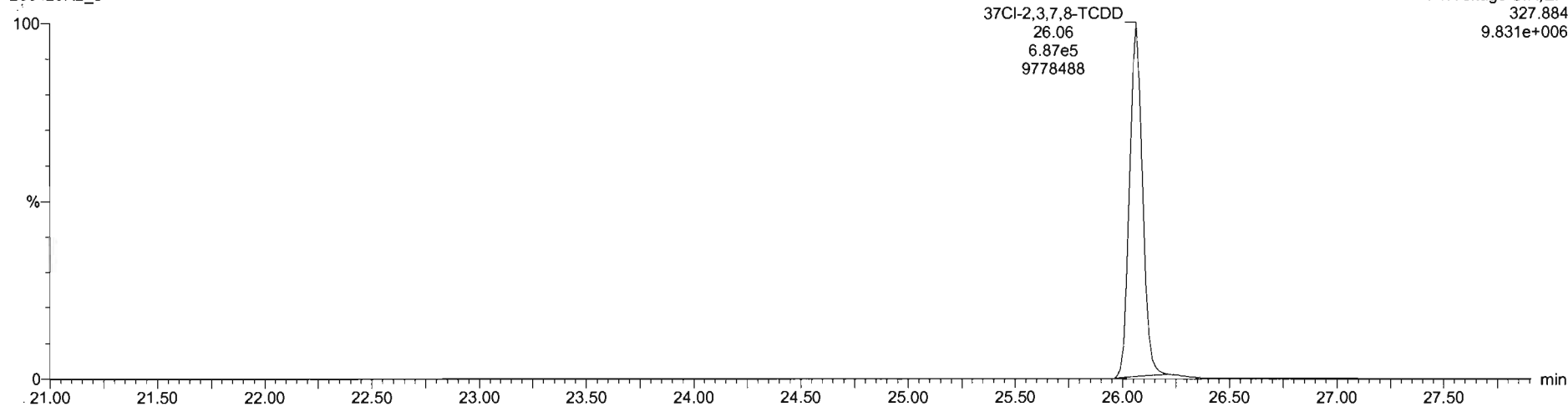
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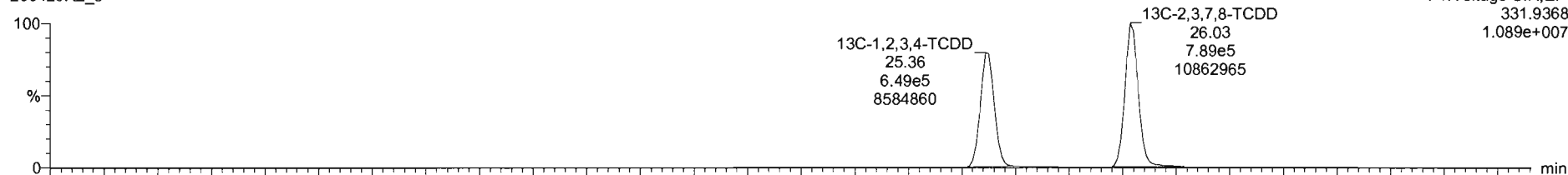
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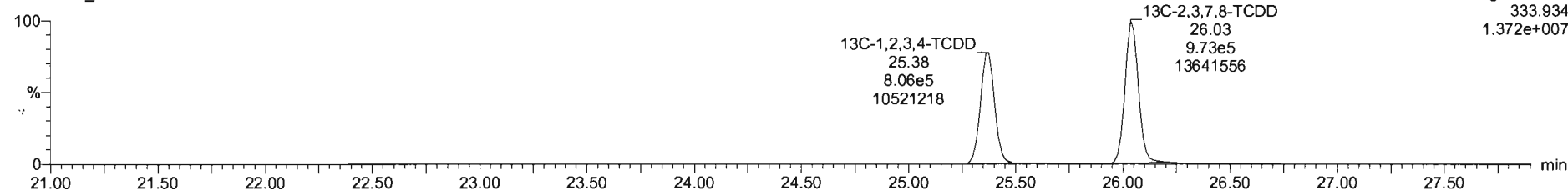


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200429R2_5



200429R2_5



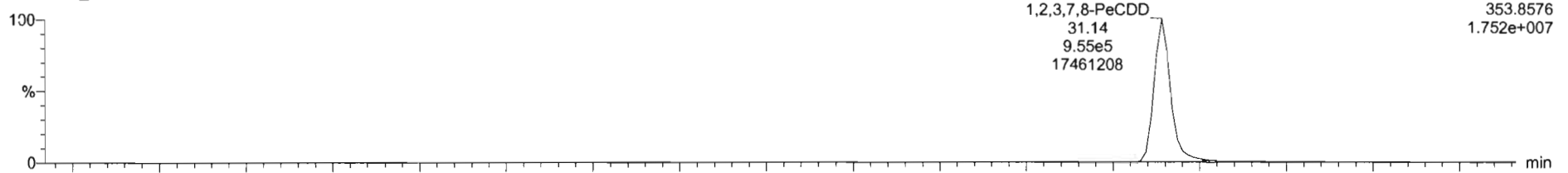
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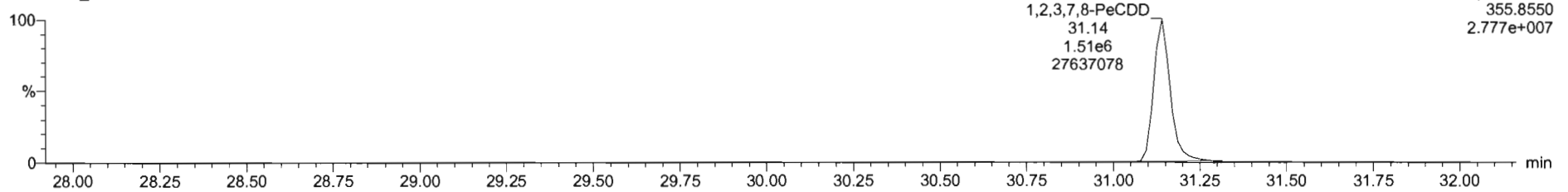
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1,2,3,7,8-PeCDD

200429R2_5

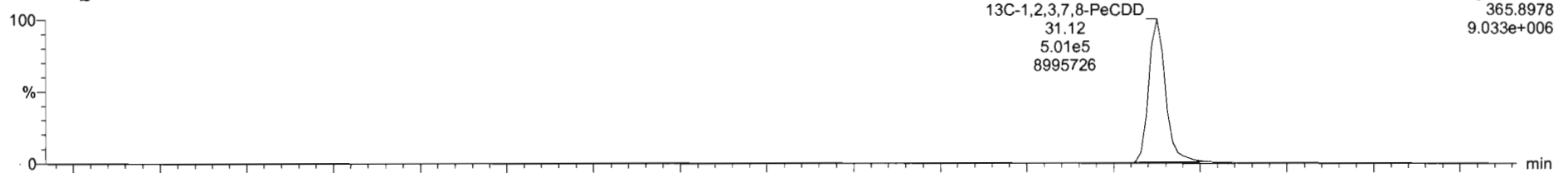


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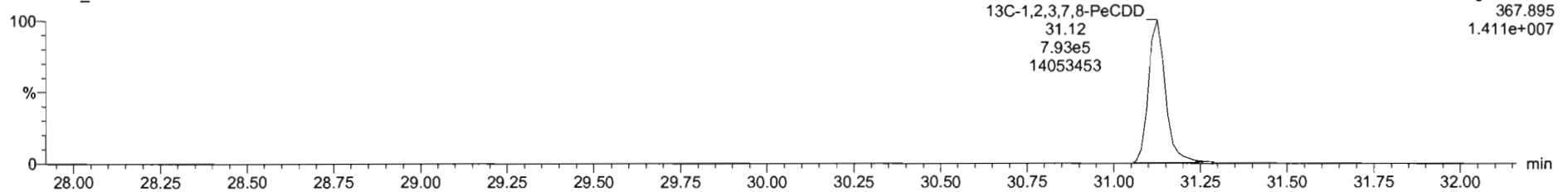


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200429R2_5



200429R2_5



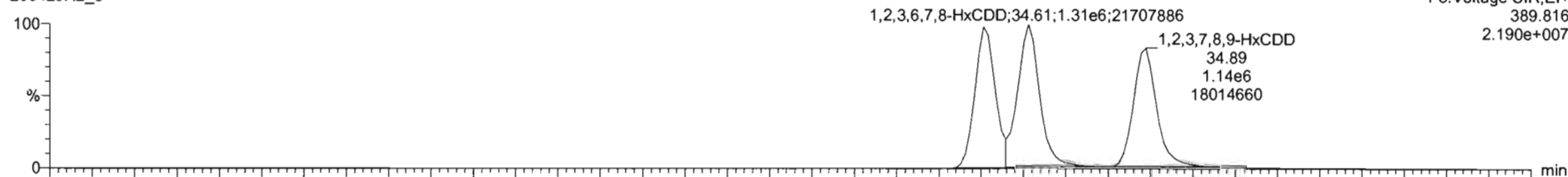
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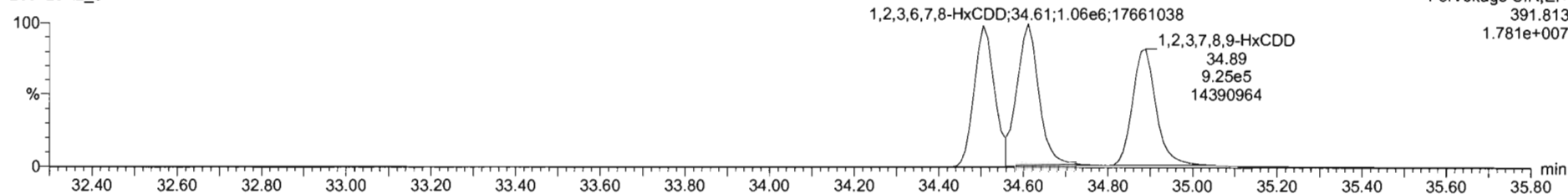
1,2,3,4,7,8-HxCDD

200429R2_5



F3:Voltage SIR,EI+
389.816
2.190e+007

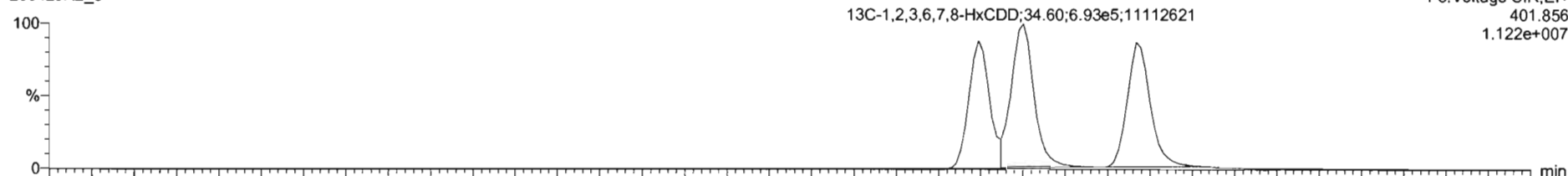
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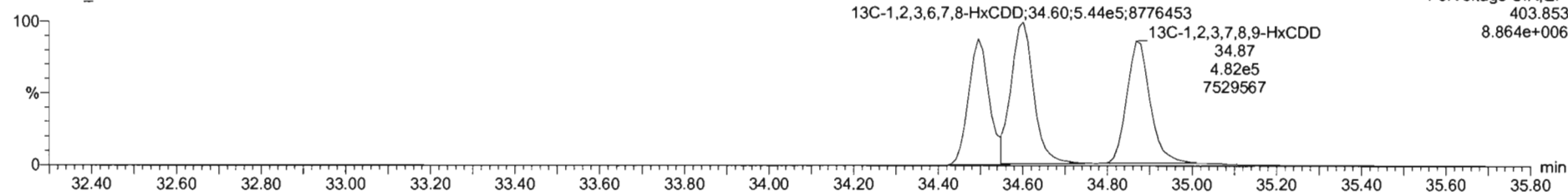
13C-1,2,3,4,7,8-HxCDD

200429R2_5



F3:Voltage SIR,EI+
401.856
1.122e+007

200429R2_5



F3:Voltage SIR,EI+
403.853
8.864e+006

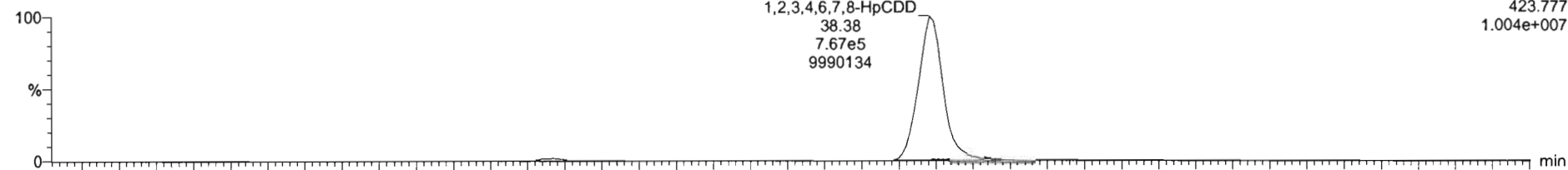
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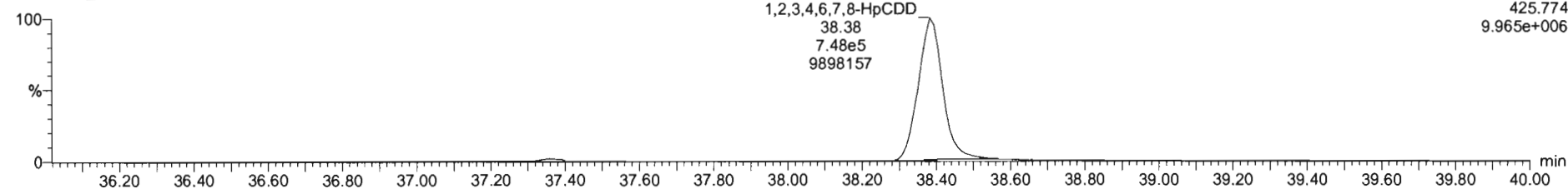
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200429R2_5

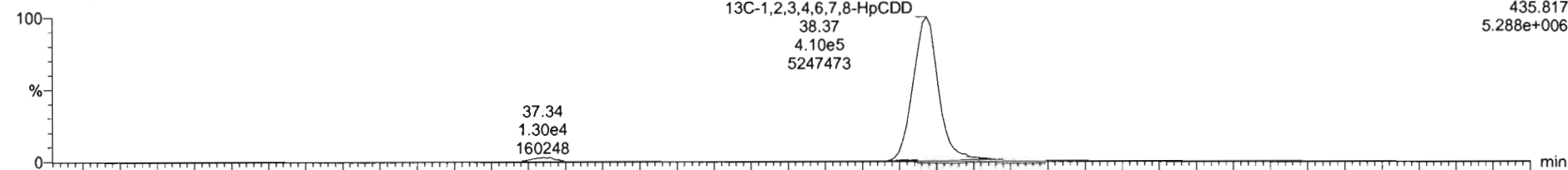


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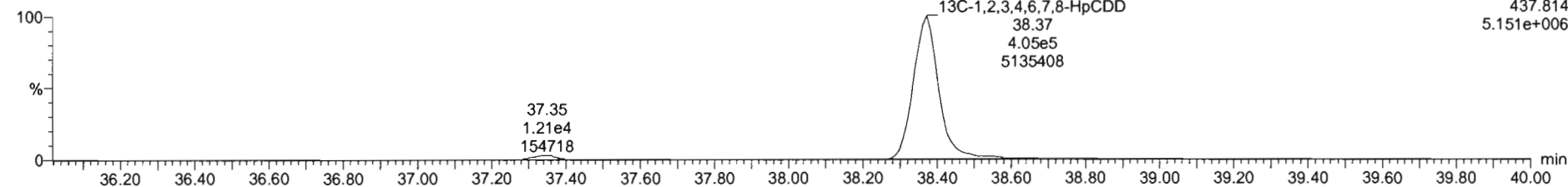


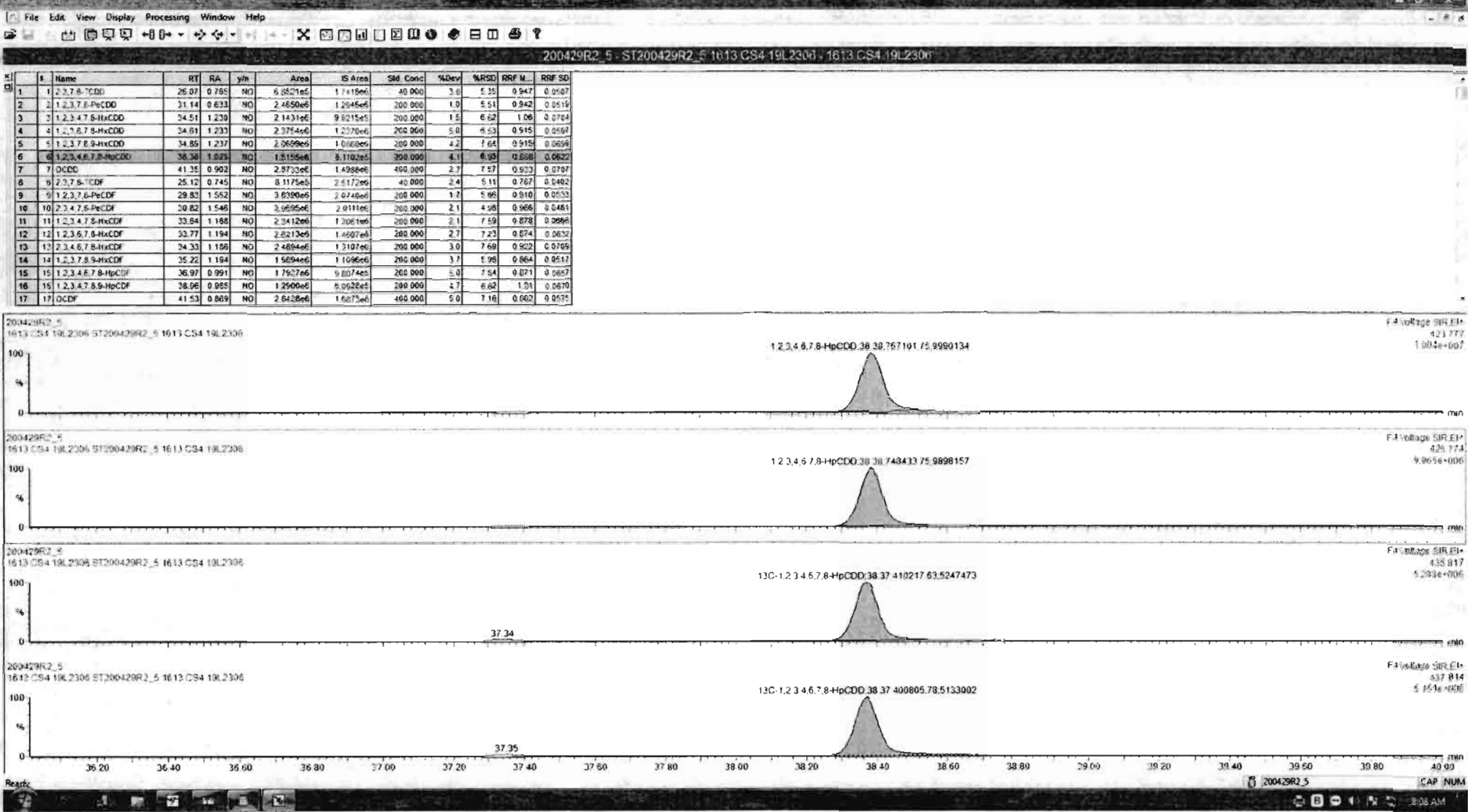
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200429R2_5



200429R2_5

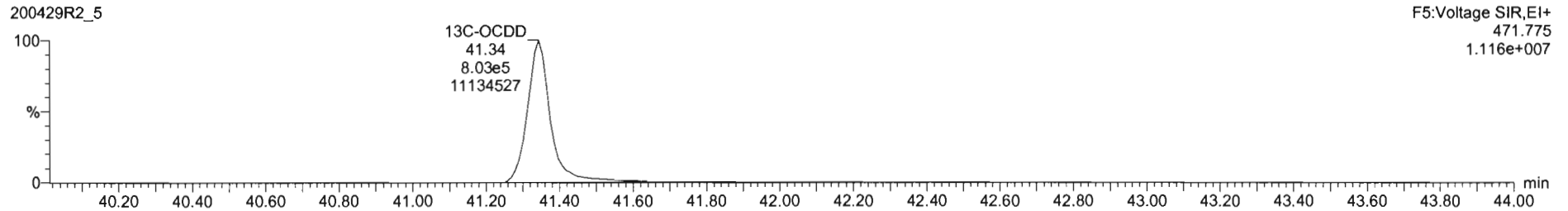
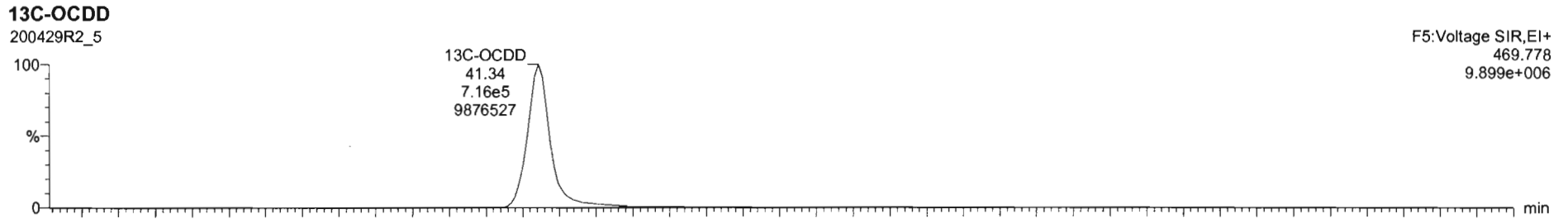
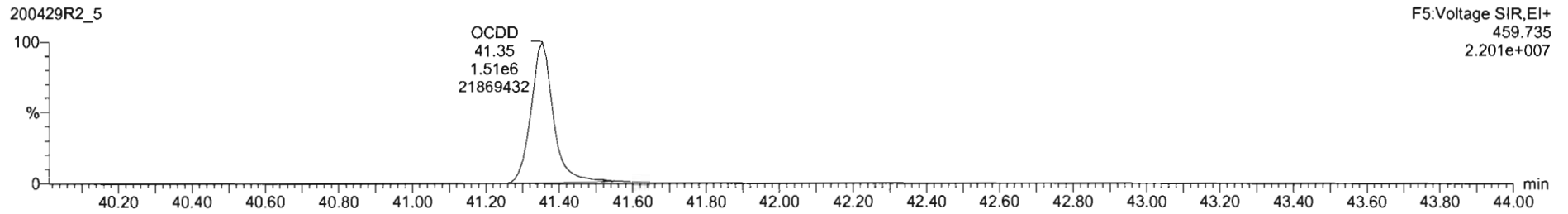
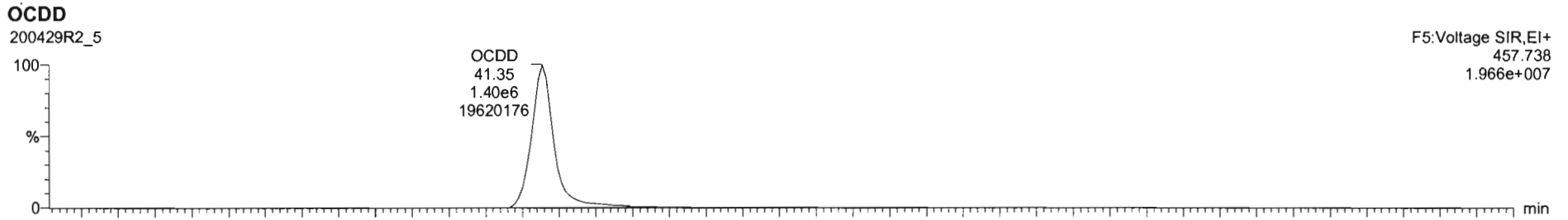




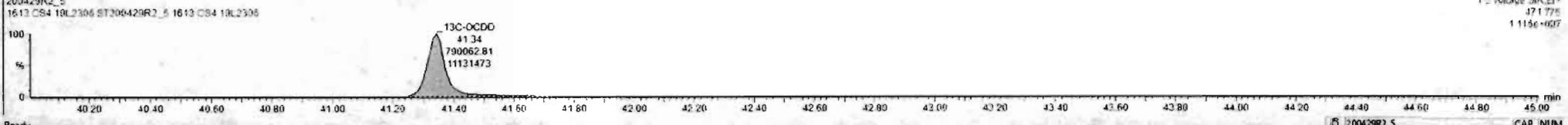
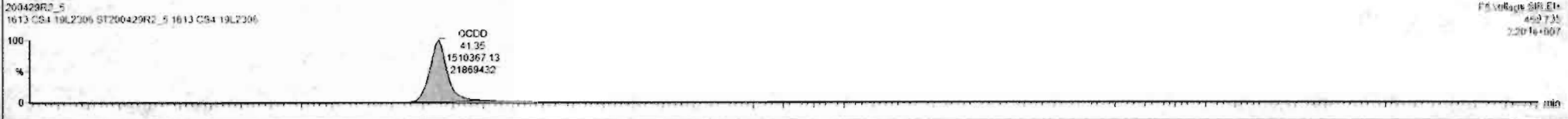
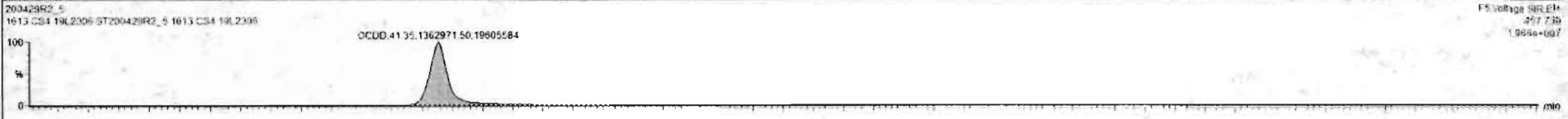
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Name: 200429R2_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	28.07	0.785	NO	6.6521e5	1.7418e6	40.000	2.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e5	1.2946e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.5215e5	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.81	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.85	1.237	NO	2.0659e5	1.0860e5	200.000	4.2	7.64	0.915	0.0656
6	1,2,3,4,6,7,8-HpCDD	36.38	1.025	NO	1.5155e6	5.1103e5	200.000	4.1	6.92	0.856	0.0520
7	OCDD	41.35	0.962	ND	2.8733e6	1.4889e6	400.000	2.7	7.57	0.833	0.0767
8	2,3,7,8-TCDF	25.12	0.745	NO	8.1175e5	2.5172e6	40.000	2.4	5.11	0.767	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.546	NO	3.9655e6	2.0111e6	200.000	2.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.158	NO	2.3412e6	1.3061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.186	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	1.9654e6	1.1056e6	200.000	3.7	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7927e6	9.8074e5	200.000	5.0	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.865	NO	1.2500e5	6.9528e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.869	NO	2.8428e6	1.6673e6	400.000	5.0	7.16	0.802	0.0575



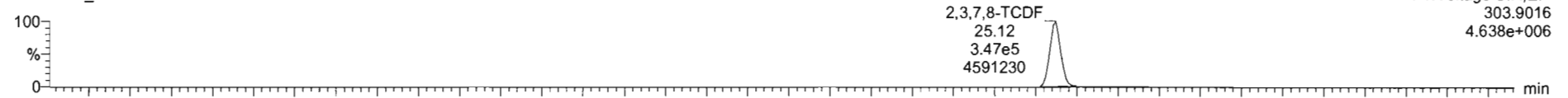
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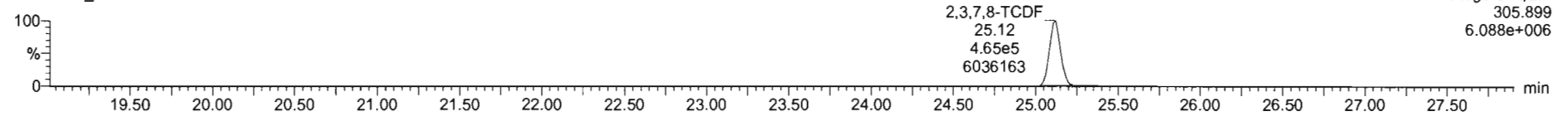
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2,3,7,8-TCDF

200429R2_5

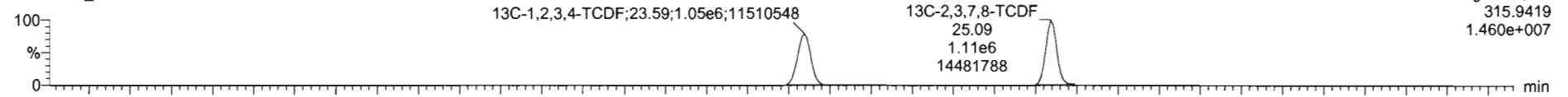


200429R2_5

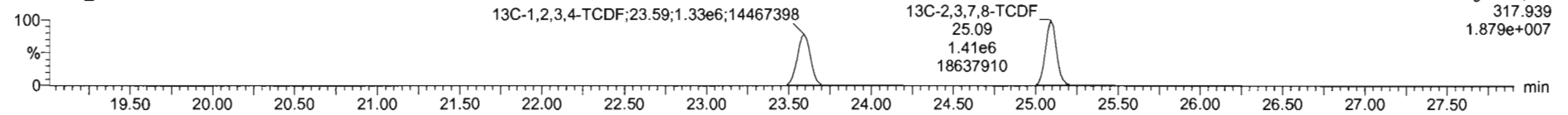


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200429R2_5

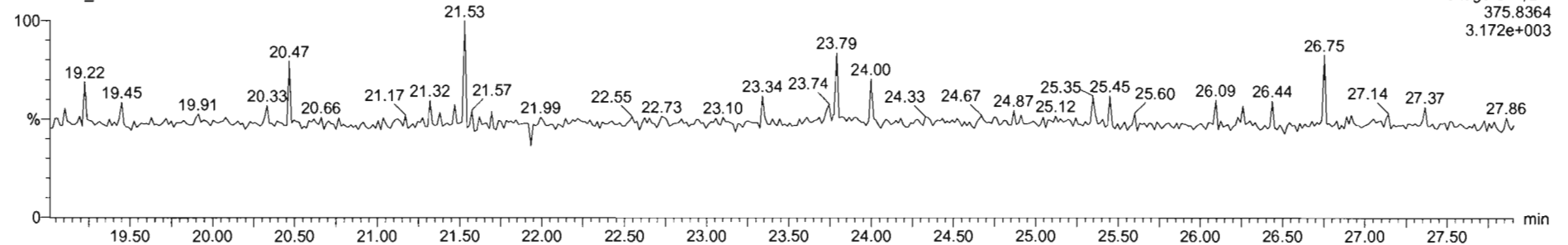


200429R2_5



DPE1

200429R2_5



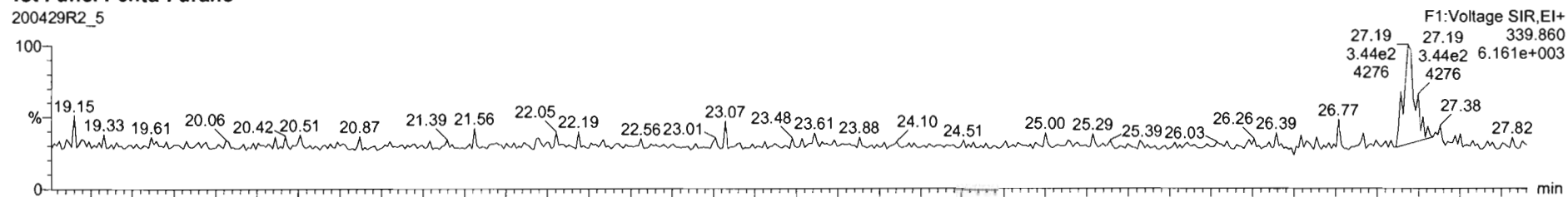
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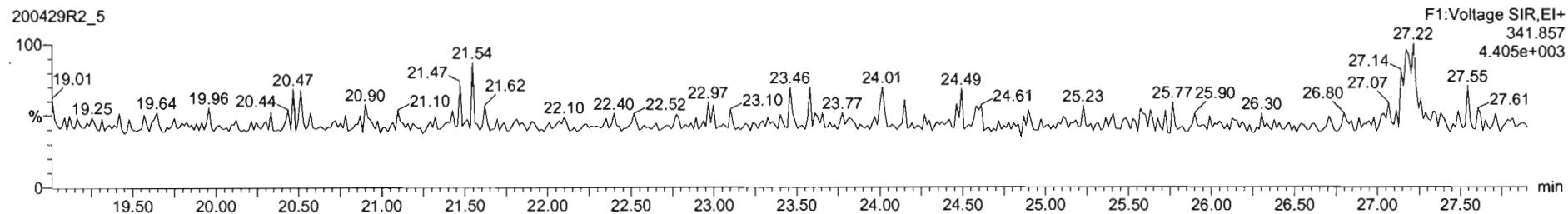
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200429R2_5

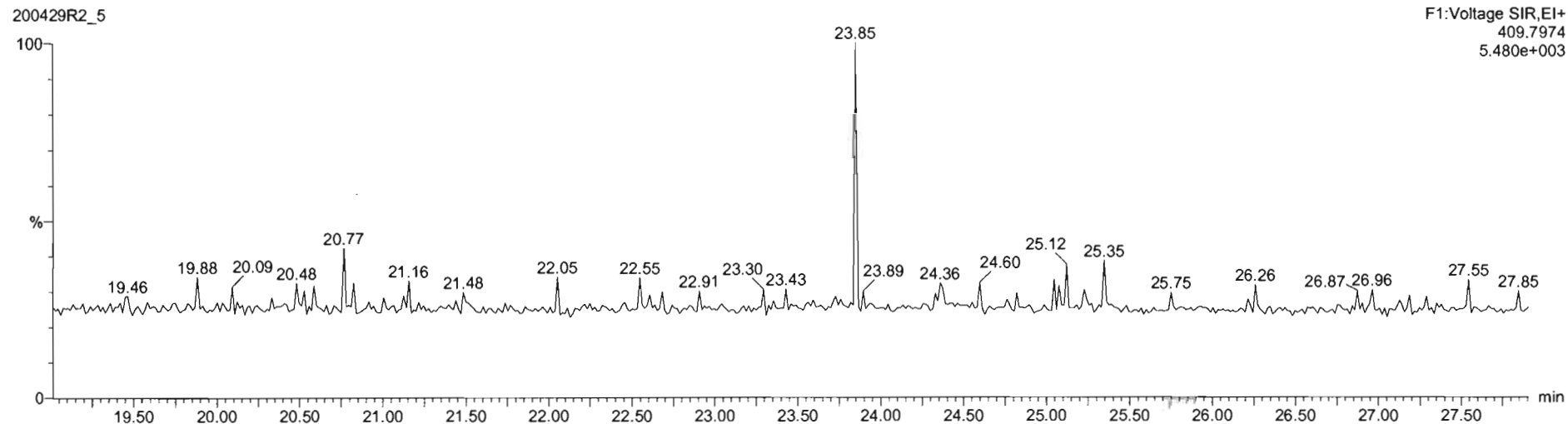


200429R2_5



DPE6

200429R2_5



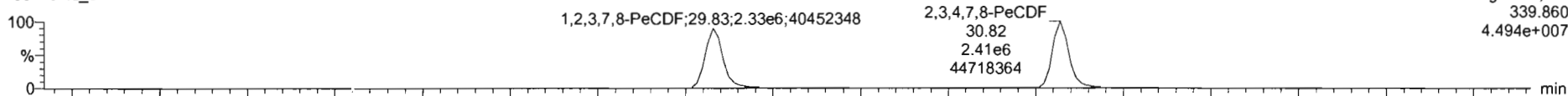
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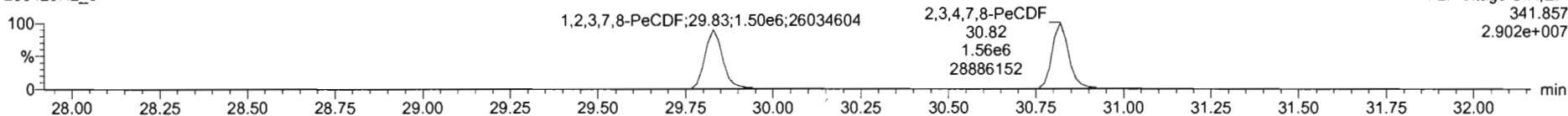
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1,2,3,7,8-PeCDF

200429R2_5

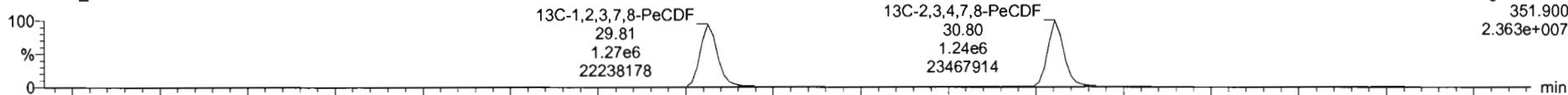


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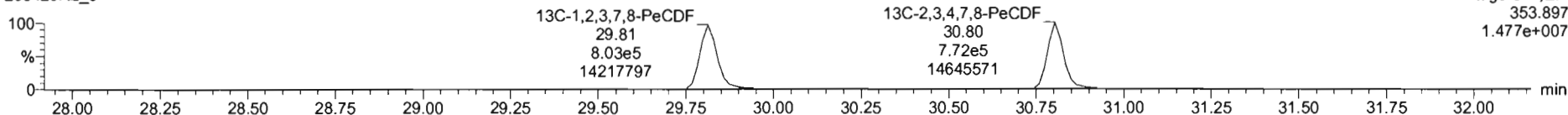


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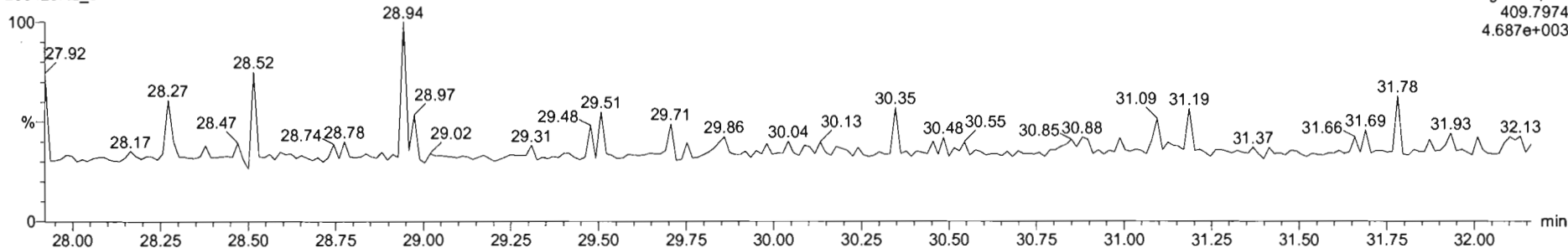


200429R2_5



DPE2

200429R2_5



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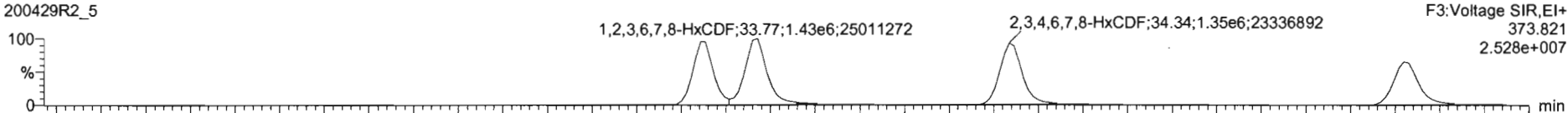
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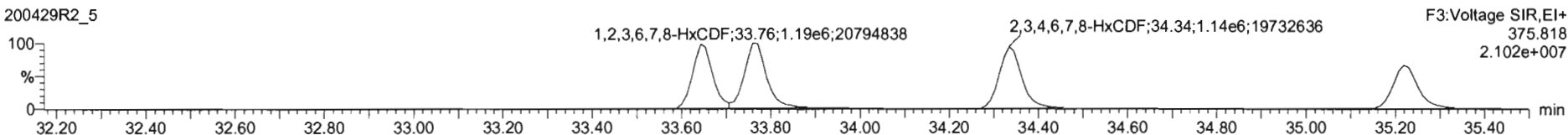
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1,2,3,4,7,8-HxCDF

200429R2_5

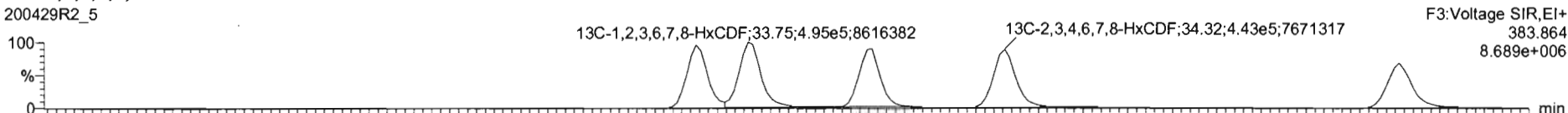


200429R2_5

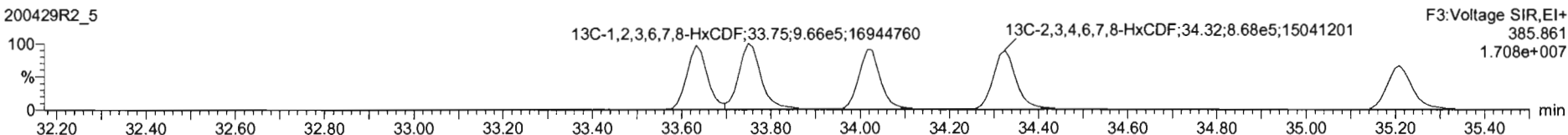


13C-1,2,3,4,7,8-HxCDF

200429R2_5

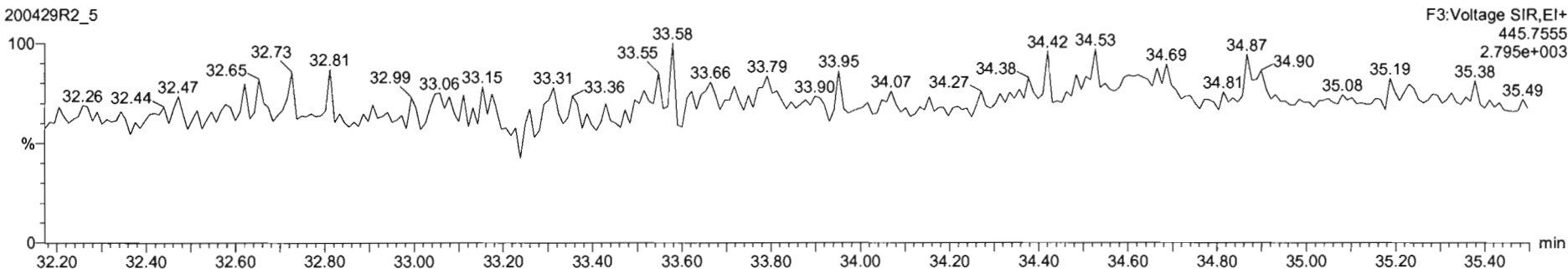


200429R2_5

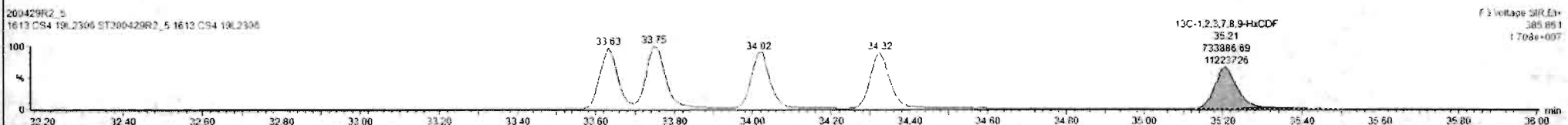
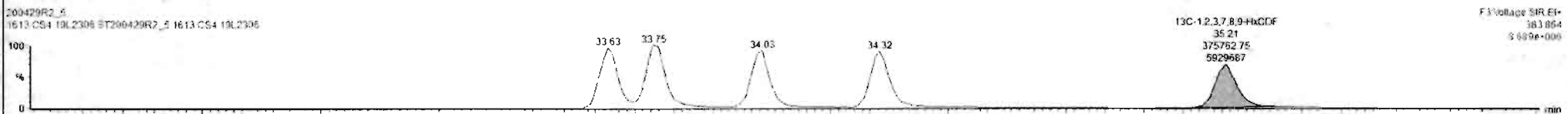


DPE3

200429R2_5



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.785	NO	6.6521e5	1.7418e6	40.000	2.6	5.25	0.947	0.0597
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e6	1.2646e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.9215e5	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.81	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.89	1.237	NO	2.0699e6	1.0860e6	200.000	4.2	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.025	NO	1.5155e6	5.1102e5	200.000	4.1	8.93	0.896	0.0622
7	OCDD	41.35	0.902	NO	2.8733e6	1.4988e6	400.000	2.7	7.57	0.933	0.0767
8	2,3,7,8-TCDF	25.12	0.745	NO	3.1175e5	2.5172e5	40.000	2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0523
10	2,3,4,7,8-PeCDF	30.82	1.548	NO	3.9695e6	2.0111e6	200.000	2.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.188	NO	2.2412e6	1.2061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.196	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	4.9084e6	1.1096e6	200.000	3.7	5.28	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7937e6	9.8074e5	200.000	5.0	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.885	NO	1.2900e6	5.6628e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.869	NO	2.8428e6	1.6675e6	400.000	5.0	7.16	0.802	0.0575



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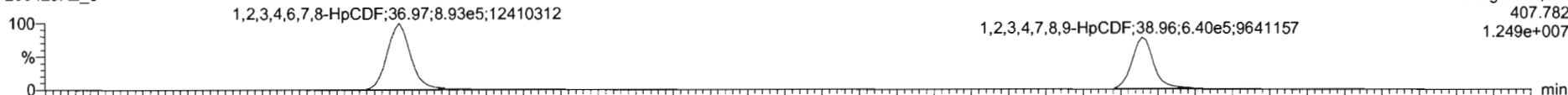
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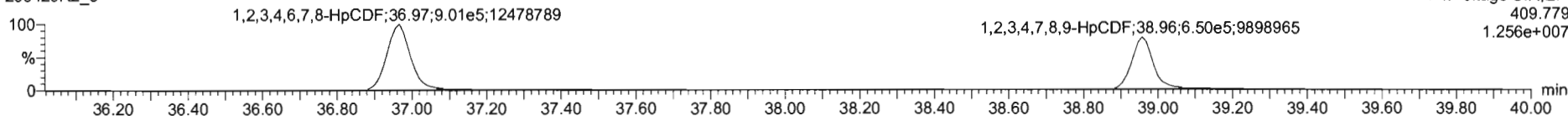
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1,2,3,4,6,7,8-HpCDF

200429R2_5

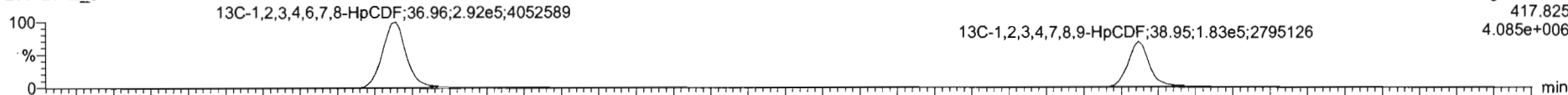


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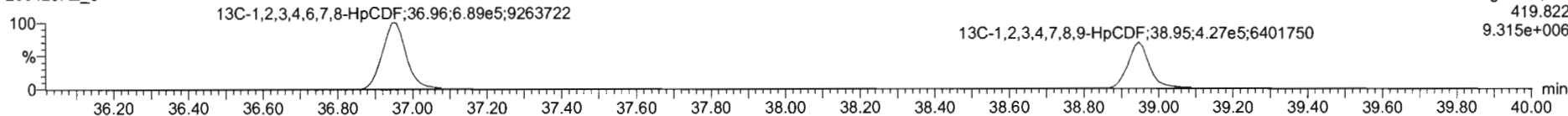


13C-1,2,3,4,6,7,8-HpCDF

200429R2_5

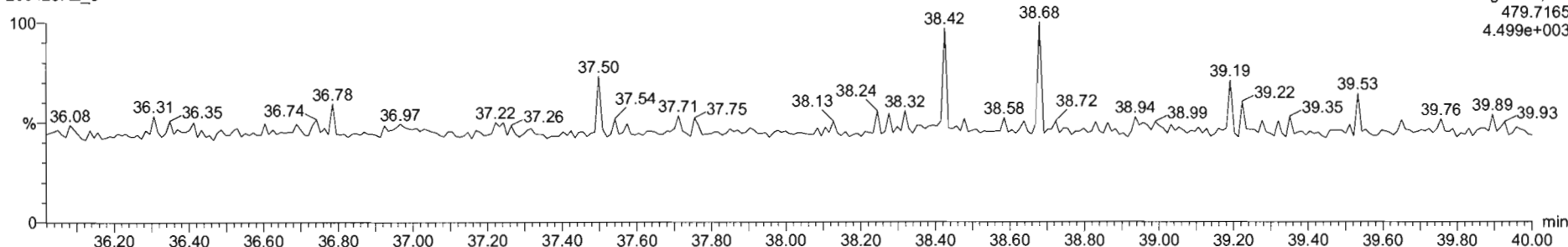


200429R2_5



DPE4

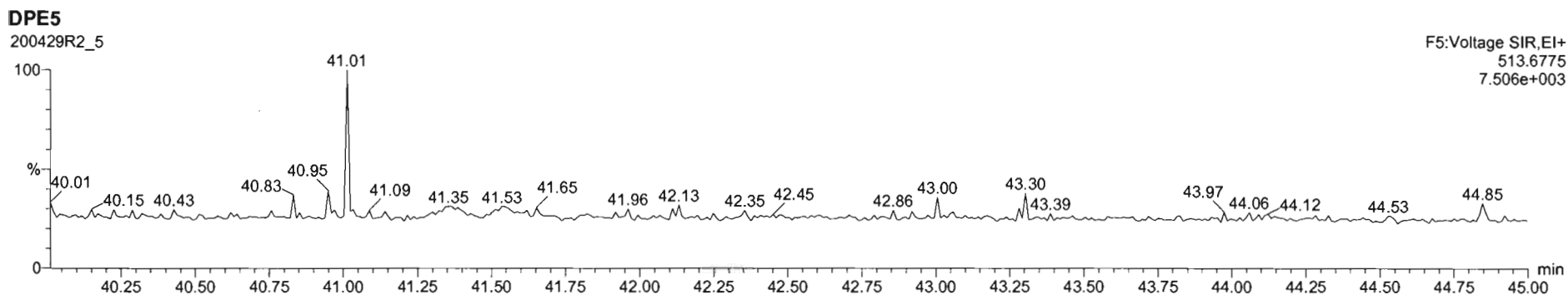
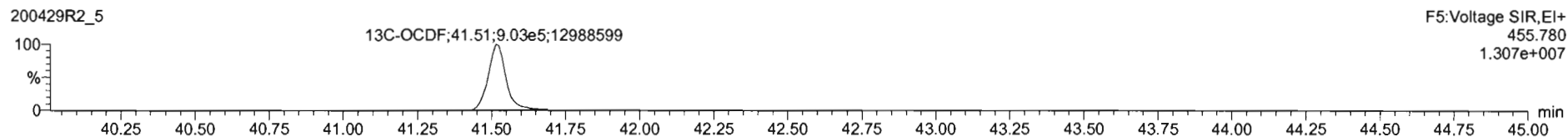
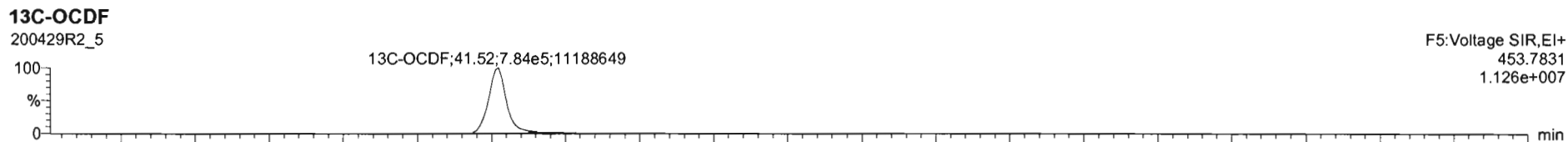
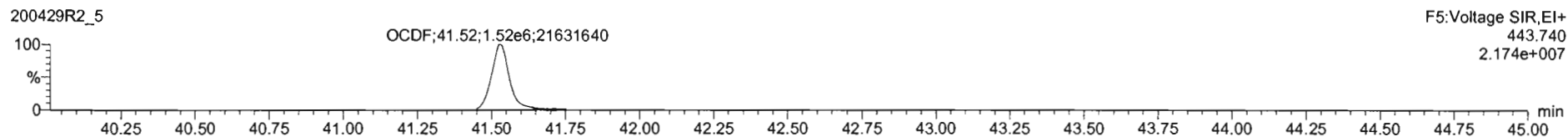
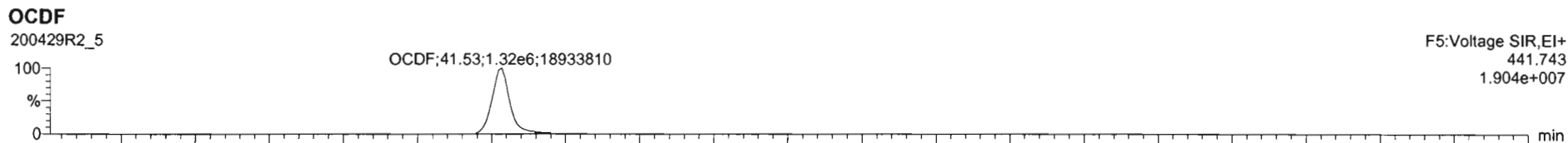
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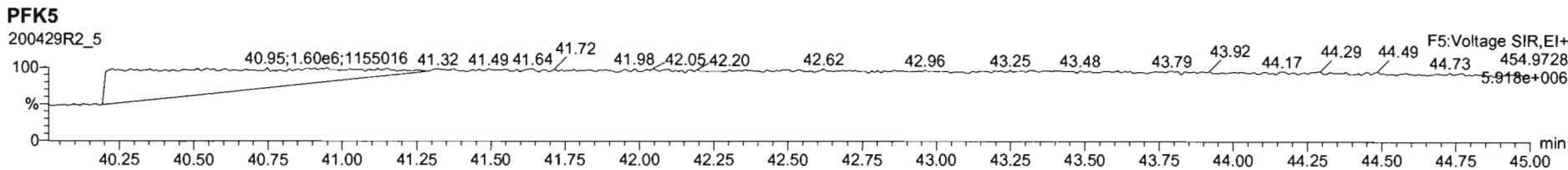
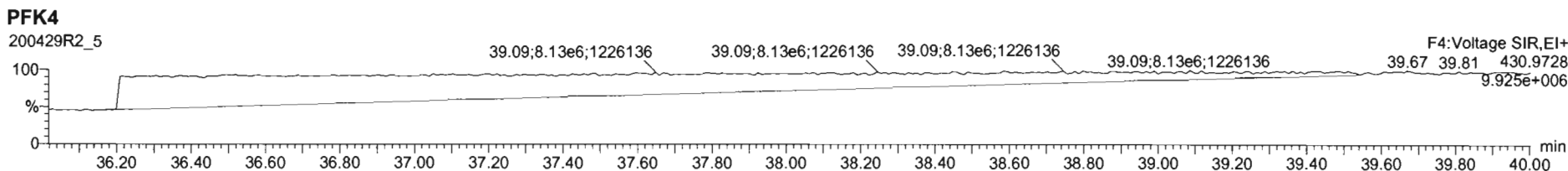
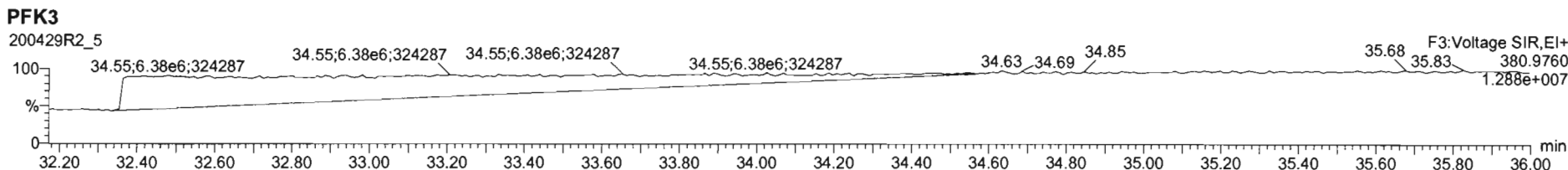
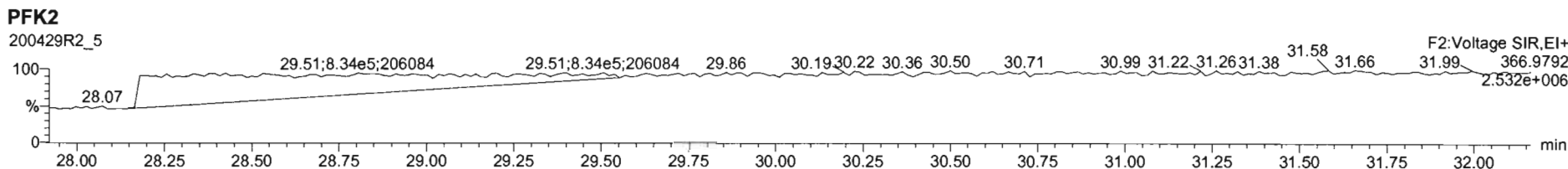
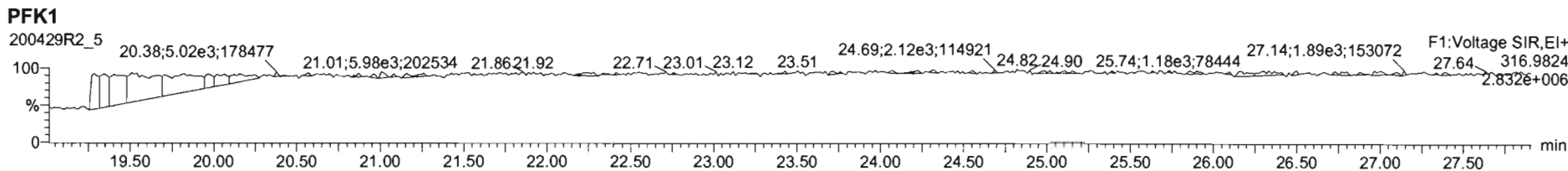


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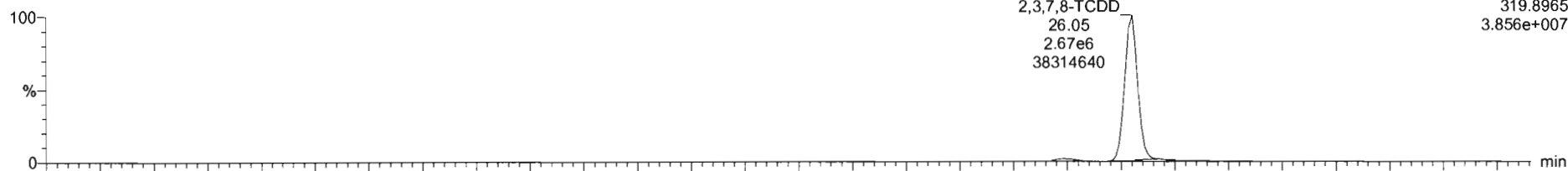
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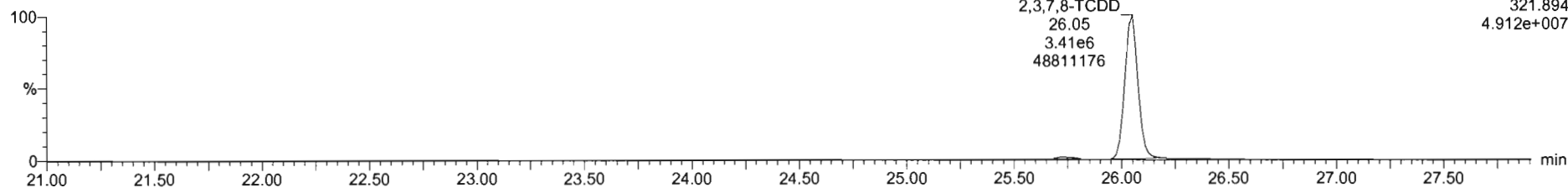
2,3,7,8-TCDD

200429R2_6



F1:Voltage SIR,EI+
319.8965
3.856e+007

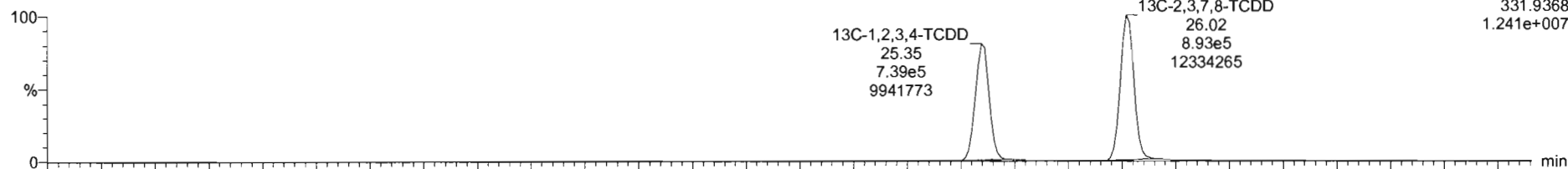
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F1:Voltage SIR,EI+
321.894
4.912e+007

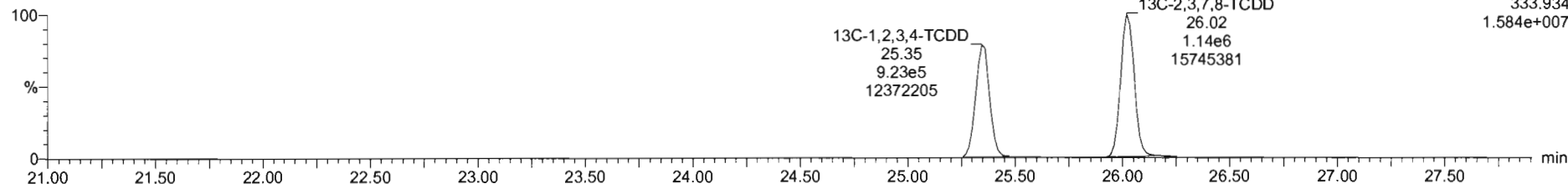
13C-2,3,7,8-TCDD

200429R2_6



F1:Voltage SIR,EI+
331.9368
1.241e+007

200429R2_6



F1:Voltage SIR,EI+
333.934
1.584e+007

Dataset: Untitled

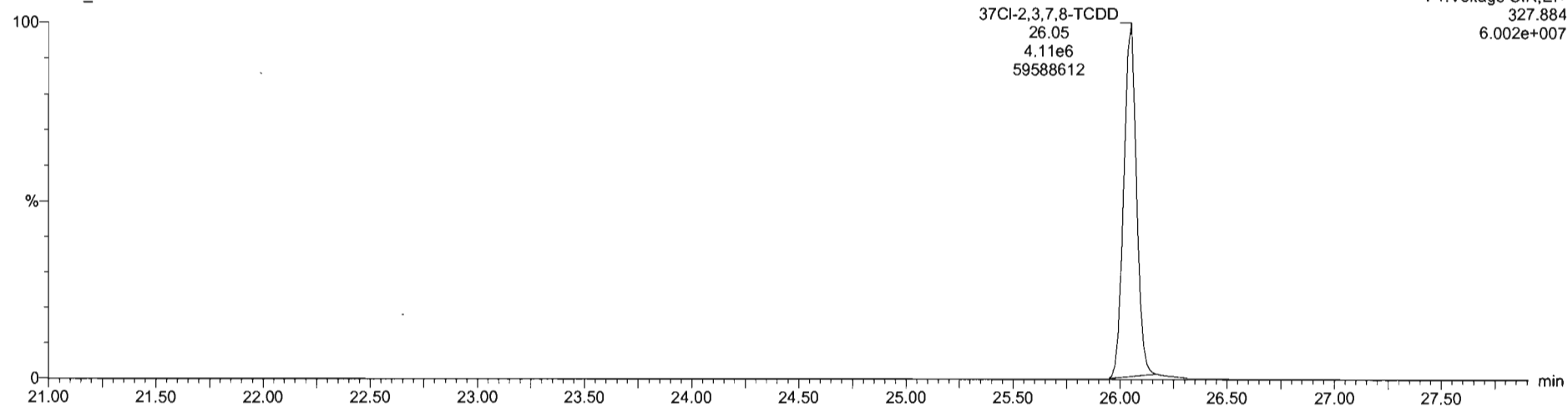
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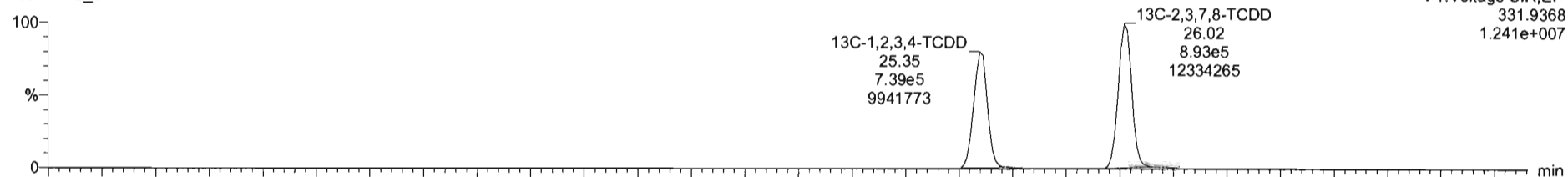
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200429R2_6

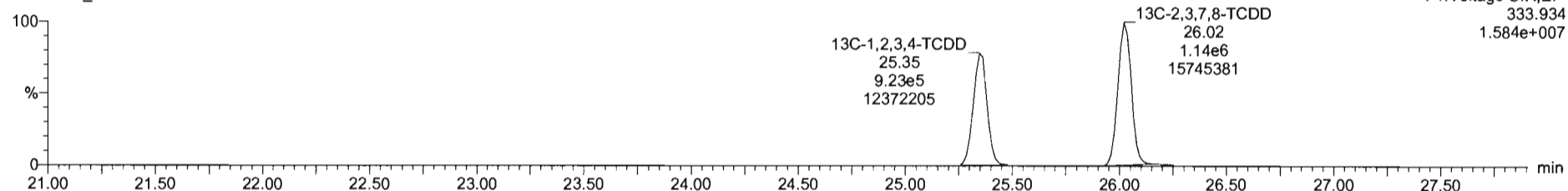


13C-1,2,3,4-TCDD

200429R2_6



200429R2_6



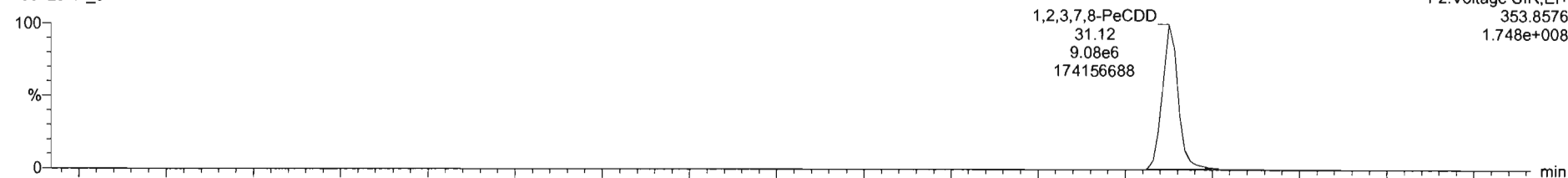
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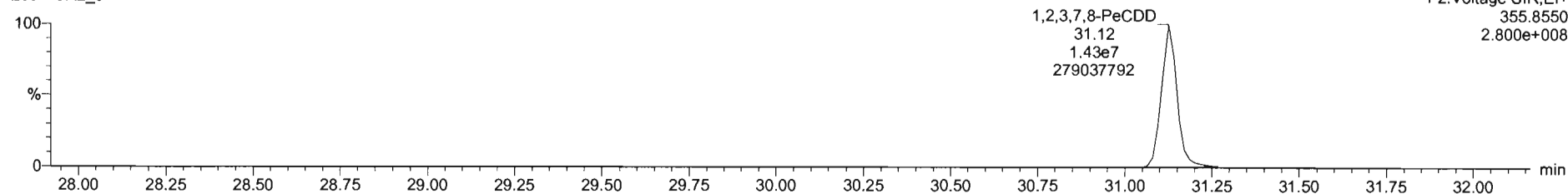
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1,2,3,7,8-PeCDD

200429R2_6

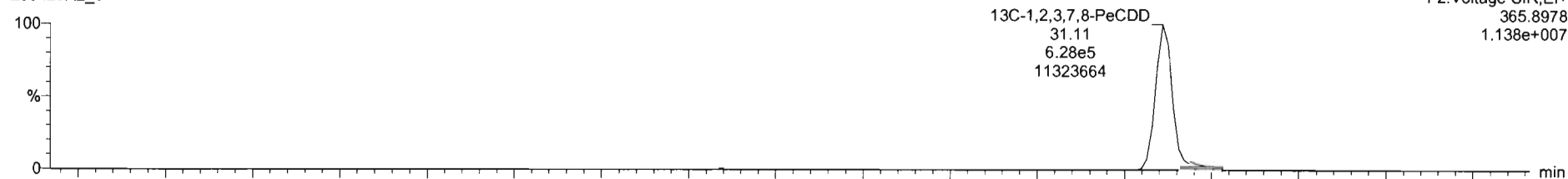


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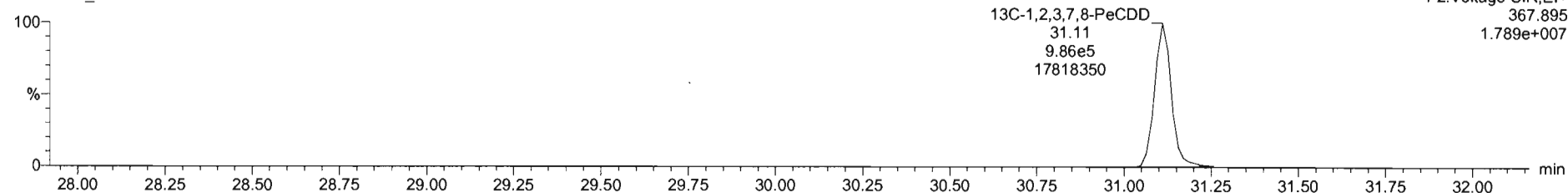


13C-1,2,3,7,8-PeCDD

200429R2_6



200429R2_6



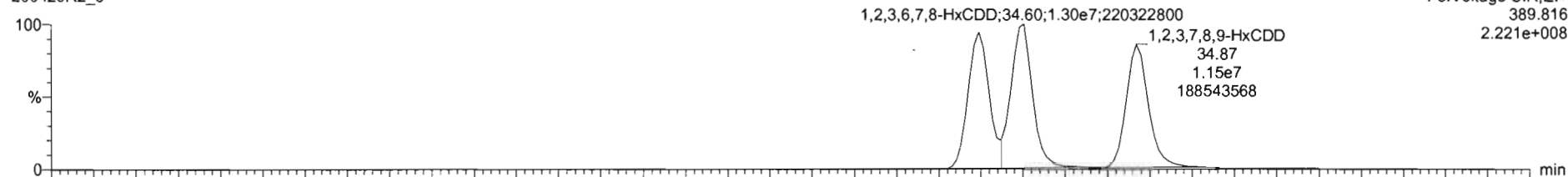
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Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

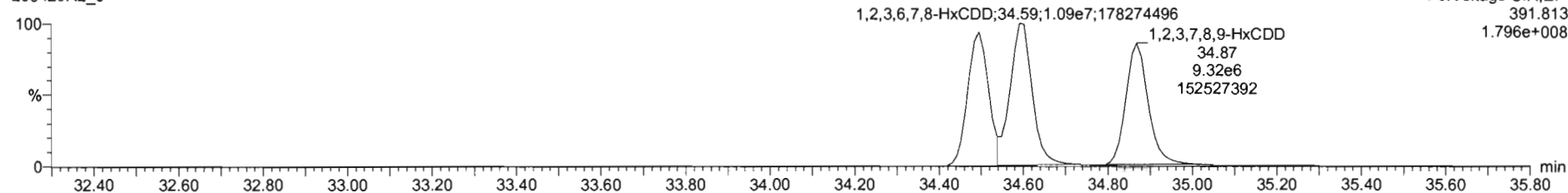
1,2,3,4,7,8-HxCDD

200429R2_6



F3:Voltage SIR,EI+
389.816
2.221e+008

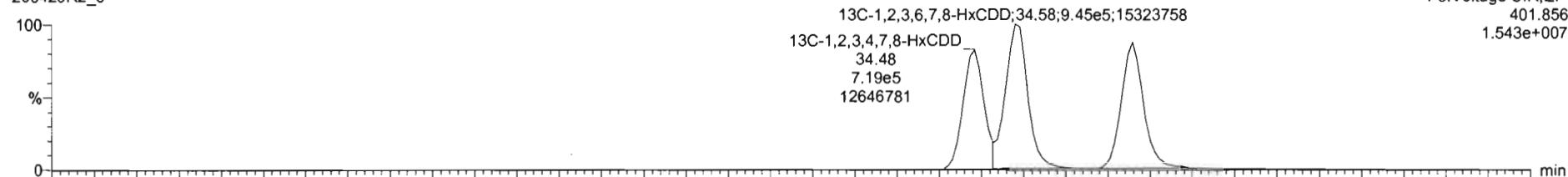
200429R2_6



F3:Voltage SIR,EI+
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1.796e+008

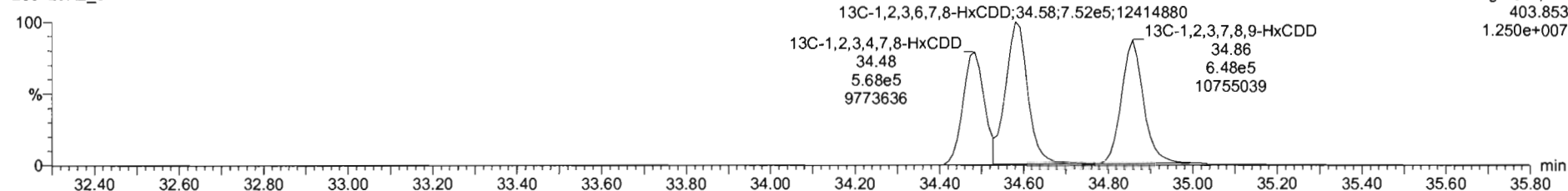
13C-1,2,3,4,7,8-HxCDD

200429R2_6



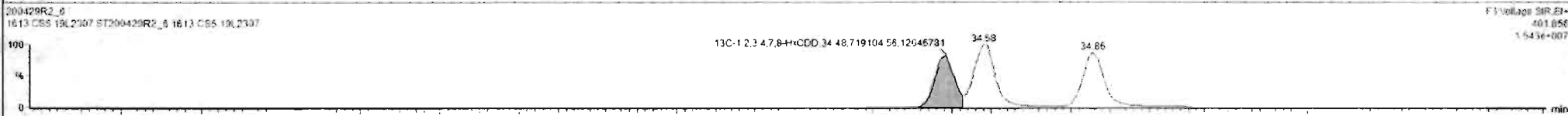
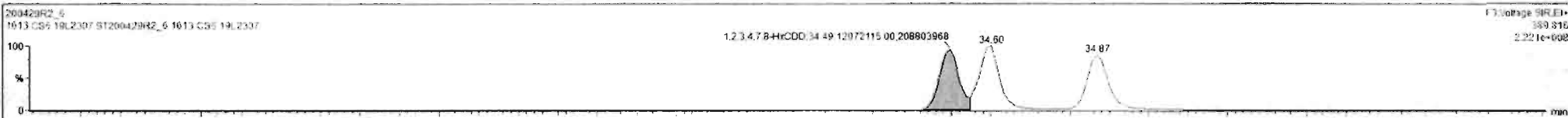
F3:Voltage SIR,EI+
401.856
1.543e+007

200429R2_6



F3:Voltage SIR,EI+
403.853
1.250e+007

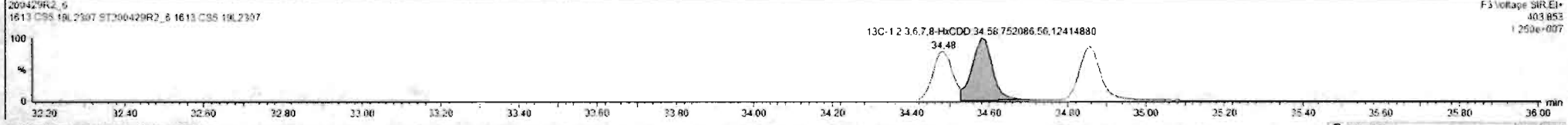
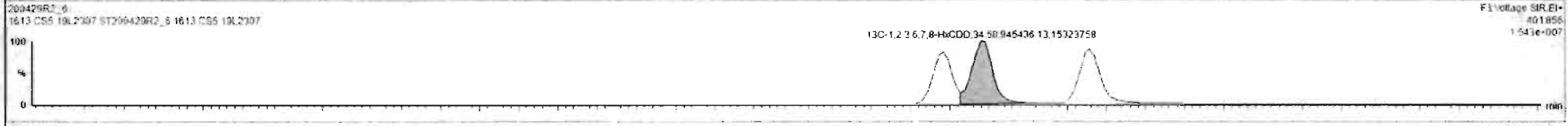
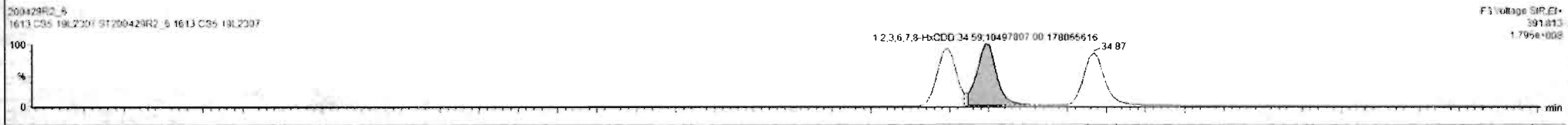
#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,6-TCDD	26.05	0.784	NO	6.0624e6	2.0310e6	300.000	5.4	5.35	0.947	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.48	1.228	NO	2.1905e7	1.2269e6	1000.000	6.6	6.62	1.08	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3486e7	1.6975e6	1500.000	0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.213	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1280e6	1500.000	5.6	8.92	0.956	0.0622
7	OCDD	41.34	0.887	NO	3.3871e7	2.3135e6	2000.000	4.8	7.57	0.633	0.0707
8	2,3,7,8-TCDF	25.05	0.753	NO	7.1946e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.560	NO	3.5628e7	2.5822e6	1500.000	1.5	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.189	NO	2.3482e7	1.7670e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9813e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.95	0.992	NO	1.8927e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.94	0.991	NO	1.4705e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.867	NO	2.3638e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2_6 CAP NUM

#	Name	RT	RA	yht	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.764	NO	6.0624e6	2.0310e6	300.000	5.4	5.35	0.947	0.9507
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.9519
3	1,2,3,4,7,8-HxCDD	34.49	1.228	NO	2.1905e7	1.2669e6	1500.000	6.6	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3469e7	1.6075e6	1500.000	0.8	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.67	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1360e6	1500.000	5.6	6.93	0.890	0.0622
7	OCDD	41.34	0.887	NO	3.3271e7	2.3135e6	3000.000	4.8	7.57	0.933	0.0707
8	1,2,7,8-TCDF	25.05	0.753	NO	7.1949e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5938e7	2.5822e6	1500.000	1.9	5.86	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.81	1.542	NO	3.6618e7	3.5077e6	1500.000	0.7	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.63	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	1,2,3,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.69	0.932	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9613e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.6927e7	1.2725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	36.94	0.993	NO	1.4205e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.887	NO	2.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



Dataset: Untitled

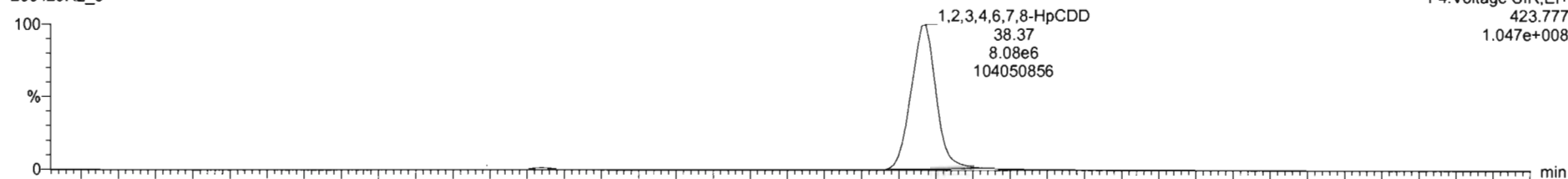
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

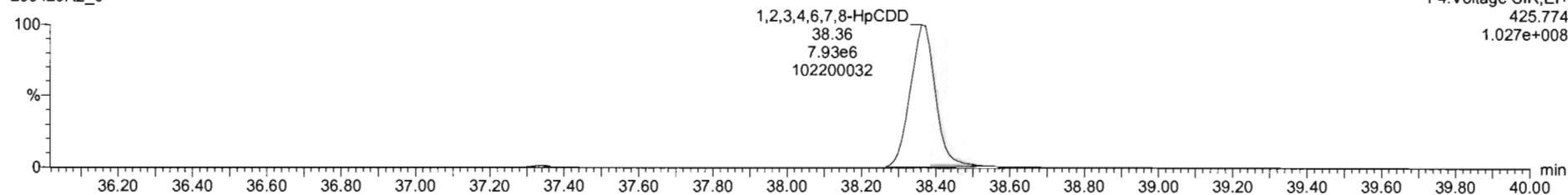
1,2,3,4,6,7,8-HpCDD

200429R2_6



F4:Voltage SIR,EI+
423.777
1.047e+008

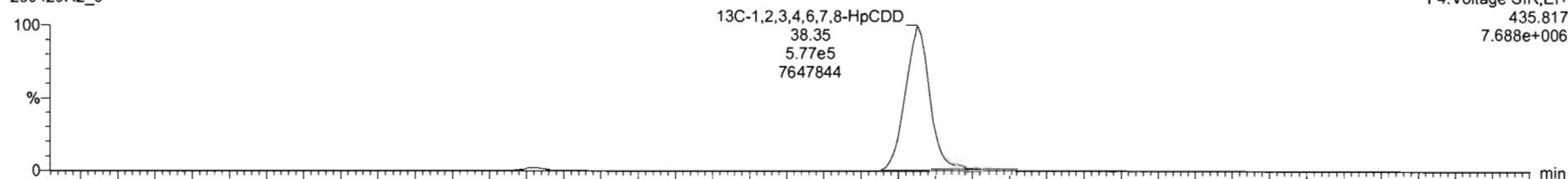
200429R2_6



F4:Voltage SIR,EI+
425.774
1.027e+008

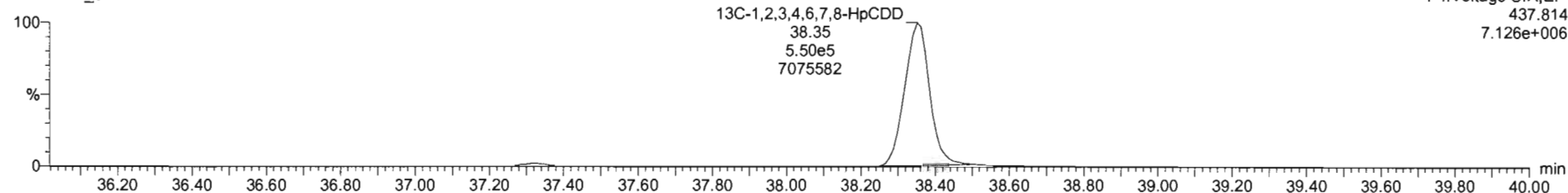
13C-1,2,3,4,6,7,8-HpCDD

200429R2_6



F4:Voltage SIR,EI+
435.817
7.688e+006

200429R2_6



F4:Voltage SIR,EI+
437.814
7.126e+006

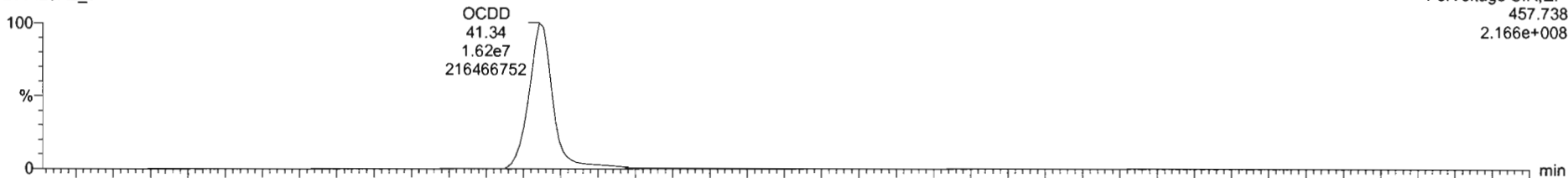
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

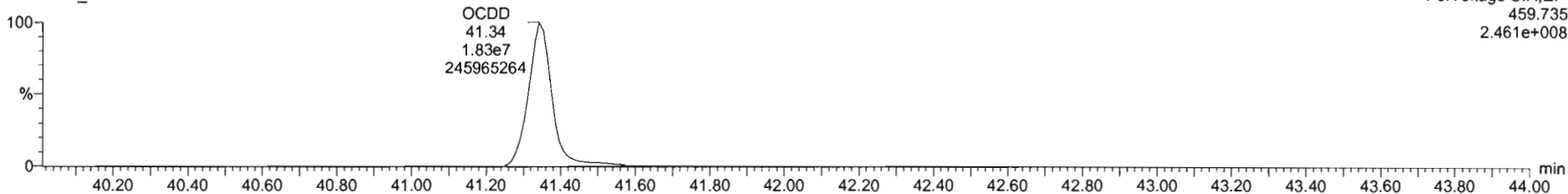
OCDD

200429R2_6



F5:Voltage SIR,EI+
457.738
2.166e+008

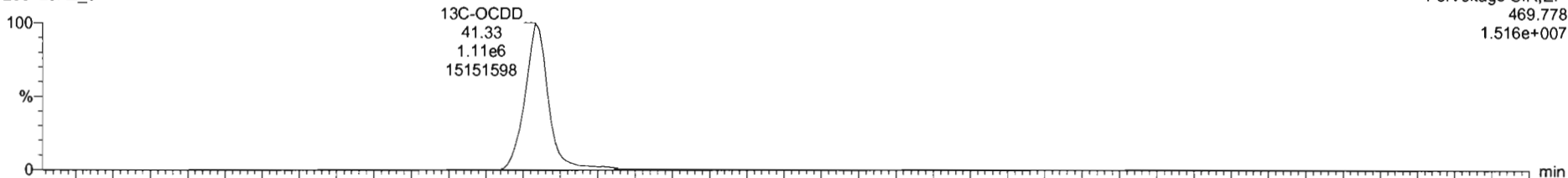
200429R2_6



F5:Voltage SIR,EI+
459.735
2.461e+008

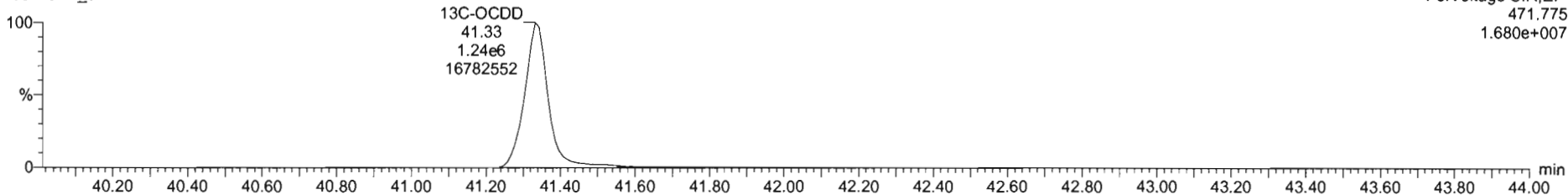
13C-OCDD

200429R2_6



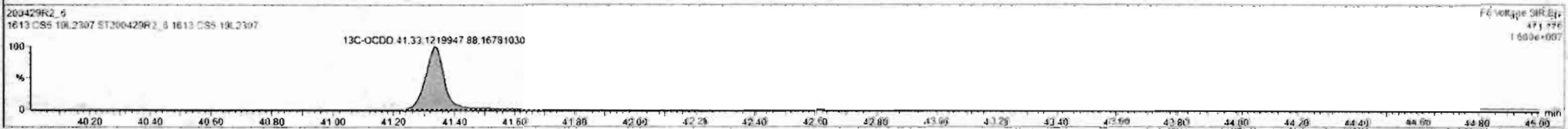
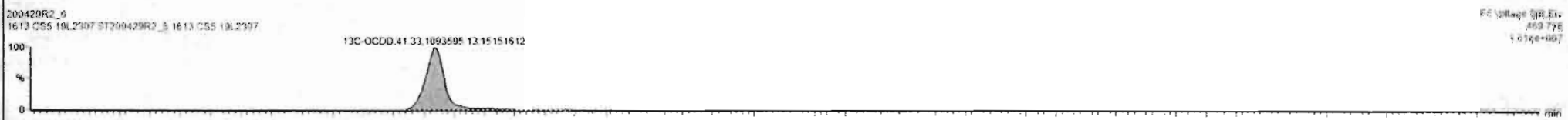
F5:Voltage SIR,EI+
469.778
1.516e+007

200429R2_6



F5:Voltage SIR,EI+
471.775
1.680e+007

#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF U...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.754	NO	6.0624e6	2.0210e6	300.000	5.4	5.15	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.43	1.220	NO	2.1905e7	1.2869e6	1500.000	6.6	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3486e7	1.6975e6	1500.000	0.9	6.53	0.916	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1260e6	1500.000	5.6	6.93	0.656	0.0422
7	OCDD	41.34	0.697	NO	3.3671e7	2.3135e6	3000.000	4.6	7.57	0.933	0.0707
8	0,2,2,7,8-TCDF	25.09	0.753	NO	7.1646e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5528e7	2.5822e6	1500.000	1.9	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.85	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.83	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.195	NO	1.9612e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.8627e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.54	0.993	NO	1.4305e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.667	NO	3.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



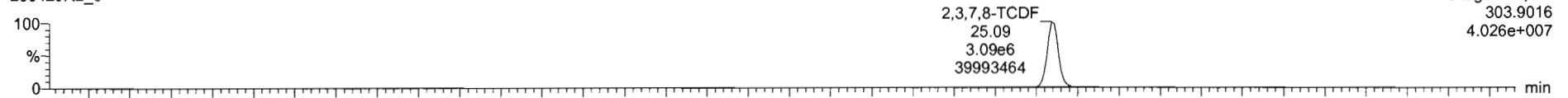
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

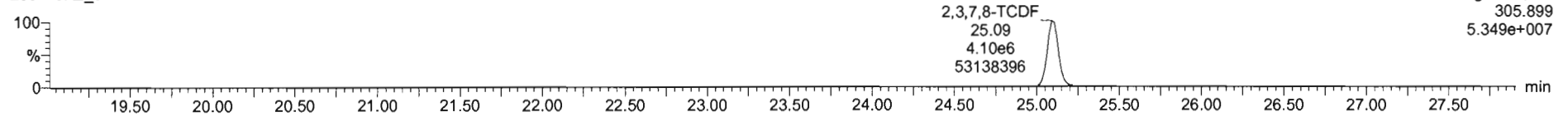
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2,3,7,8-TCDF

200429R2_6

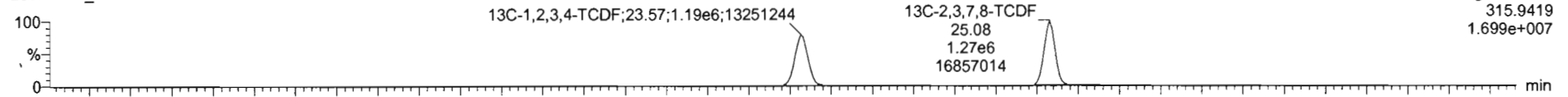


200429R2_6

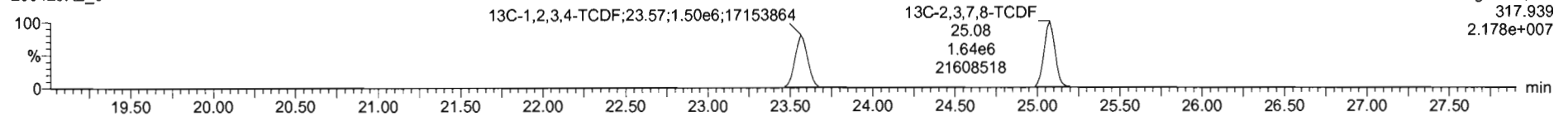


13C-2,3,7,8-TCDF

200429R2_6

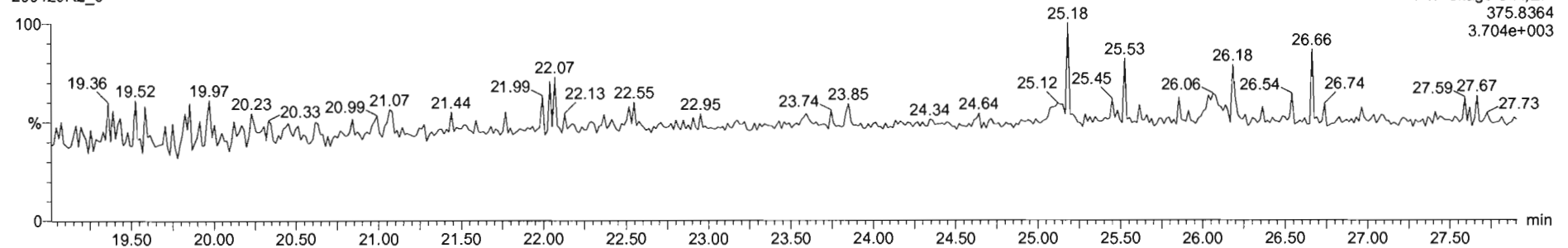


200429R2_6



DPE1

200429R2_6



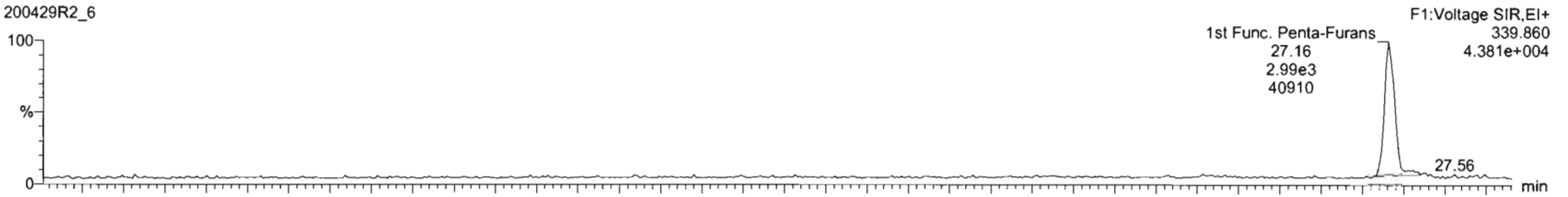
Dataset: Untitled

Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

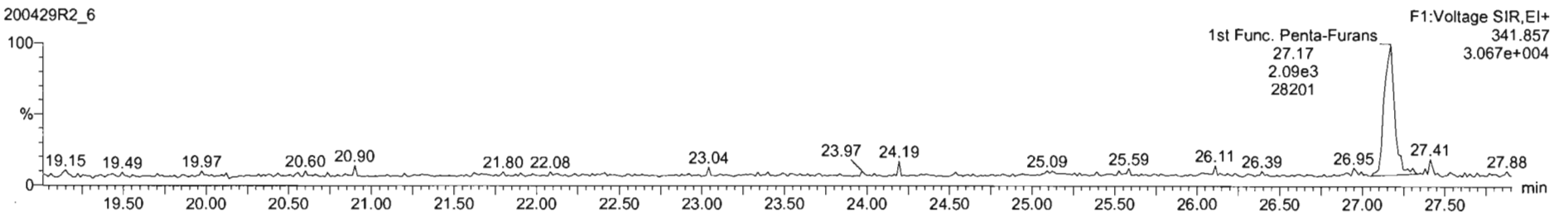
Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

1st Func. Penta-Furans

200429R2_6

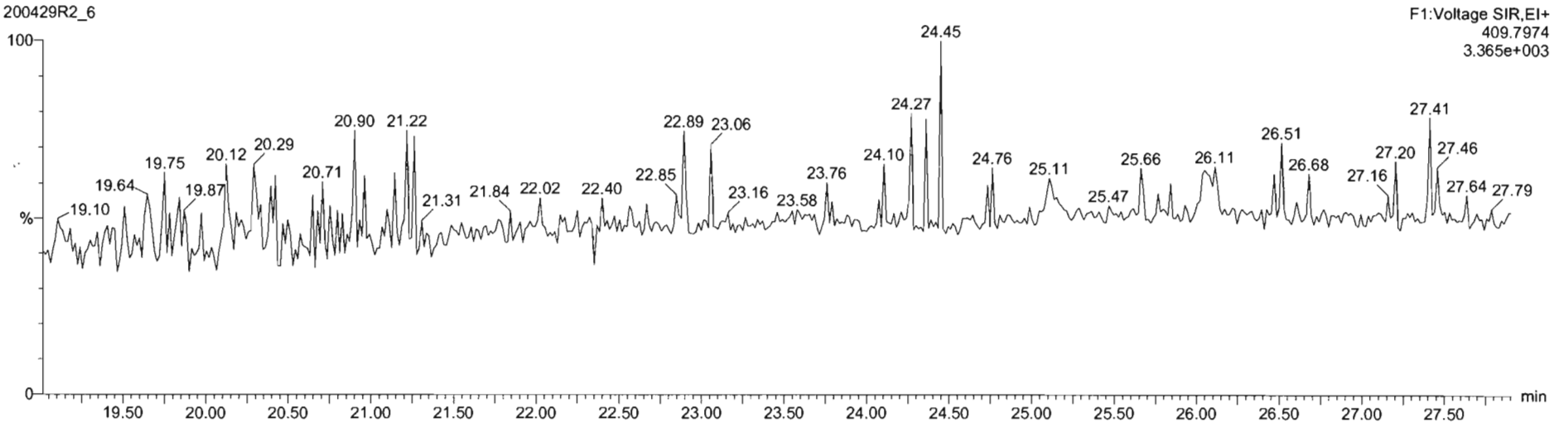


200429R2_6



DPE6

200429R2_6



Dataset: Untitled

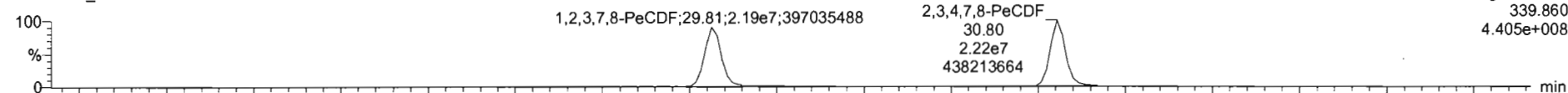
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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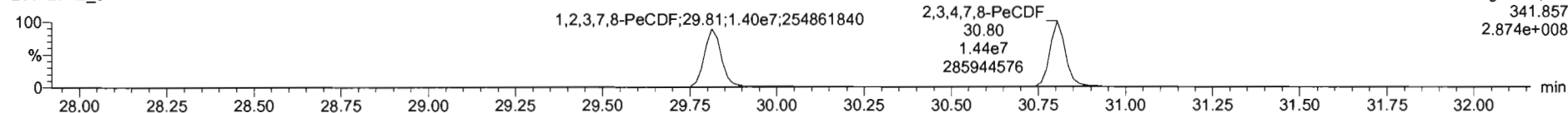
1,2,3,7,8-PeCDF

200429R2_6



F2:Voltage SIR,EI+
339.860
4.405e+008

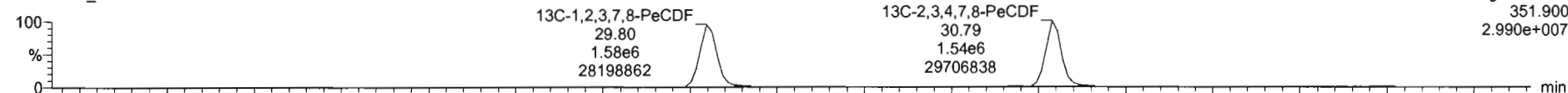
200429R2_6



F2:Voltage SIR,EI+
341.857
2.874e+008

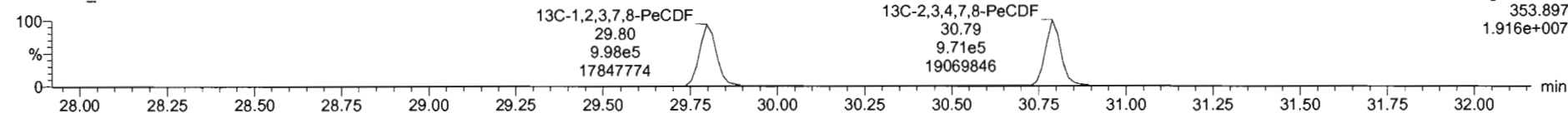
13C-1,2,3,7,8-PeCDF

200429R2_6



F2:Voltage SIR,EI+
351.900
2.990e+007

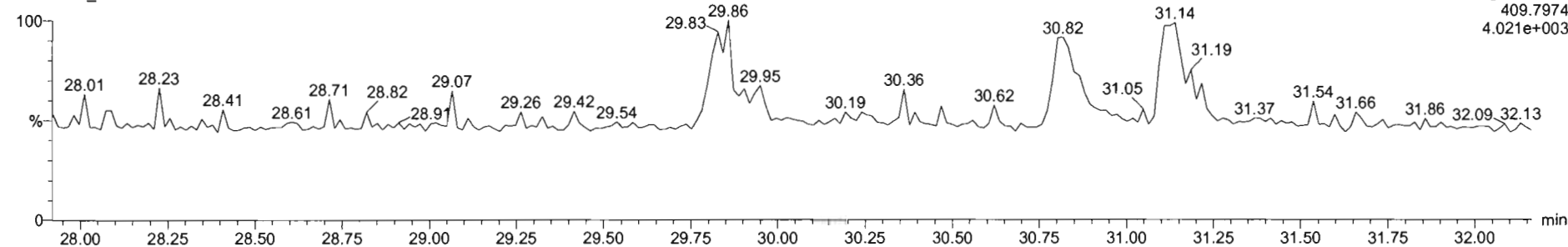
200429R2_6



F2:Voltage SIR,EI+
353.897
1.916e+007

DPE2

200429R2_6



F2:Voltage SIR,EI+
409.7974
4.021e+003

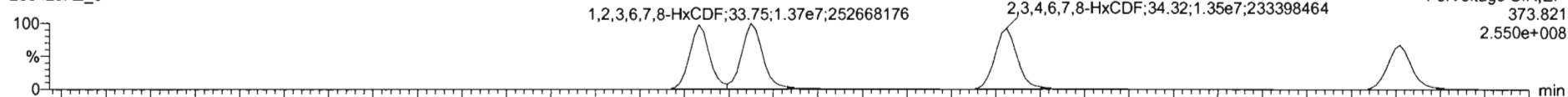
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

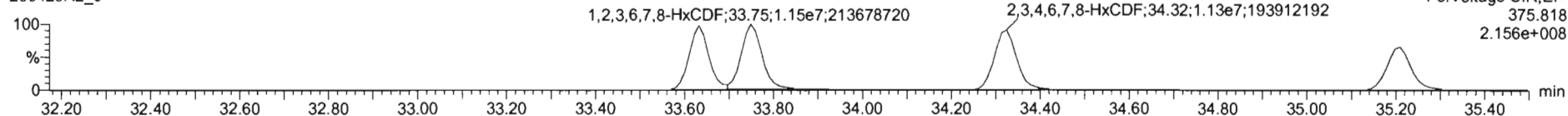
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1,2,3,4,7,8-HxCDF

200429R2_6

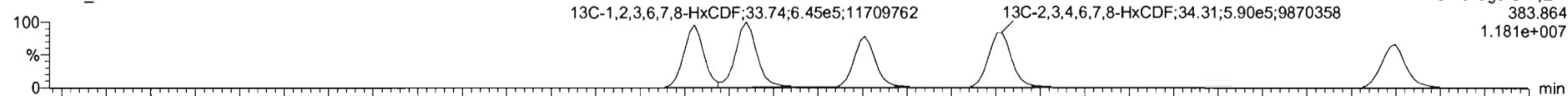


200429R2_6

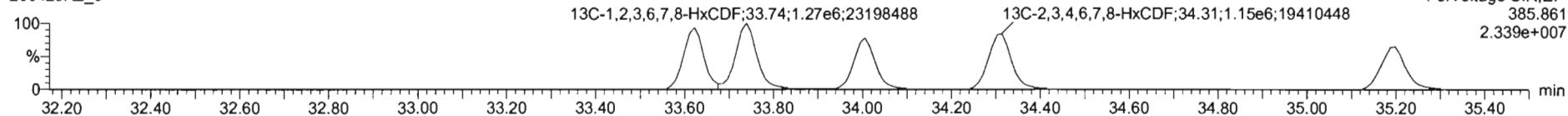


13C-1,2,3,4,7,8-HxCDF

200429R2_6

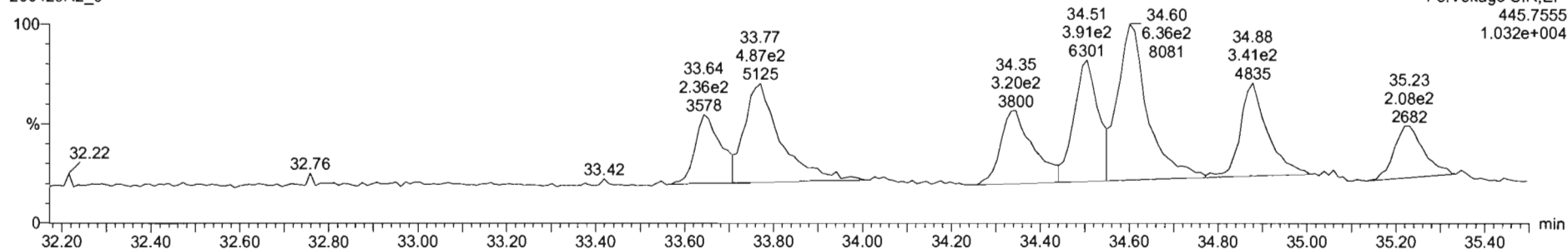


200429R2_6



DPE3

200429R2_6



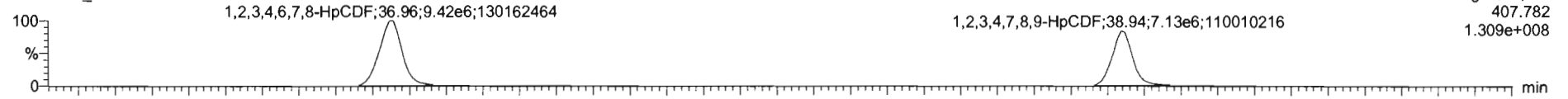
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

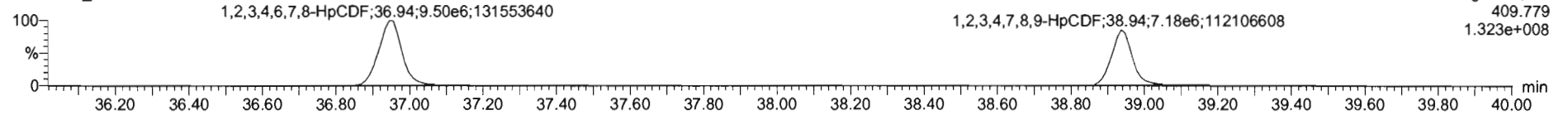
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1,2,3,4,6,7,8-HpCDF

200429R2_6

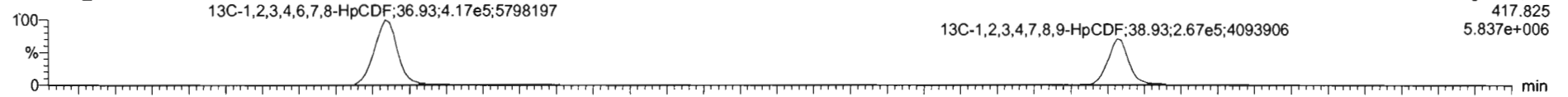


200429R2_6

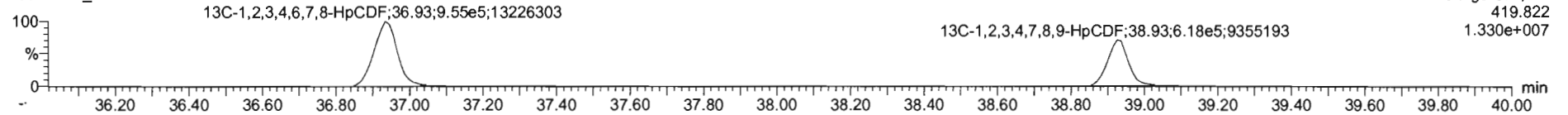


13C-1,2,3,4,6,7,8-HpCDF

200429R2_6

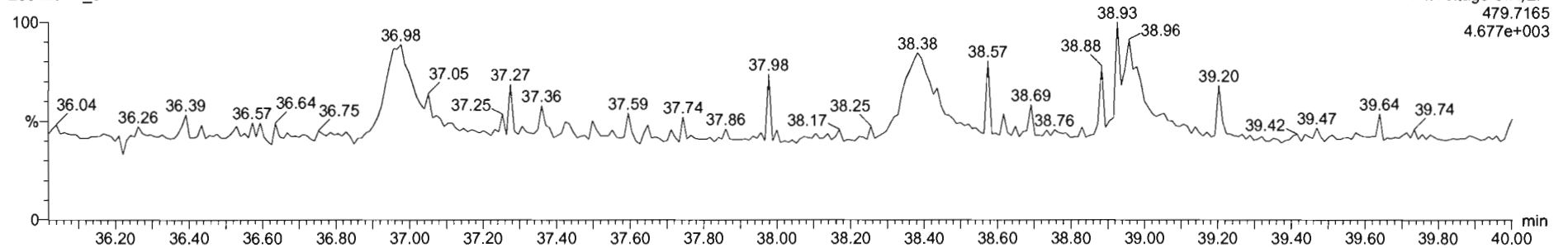


200429R2_6



DPE4

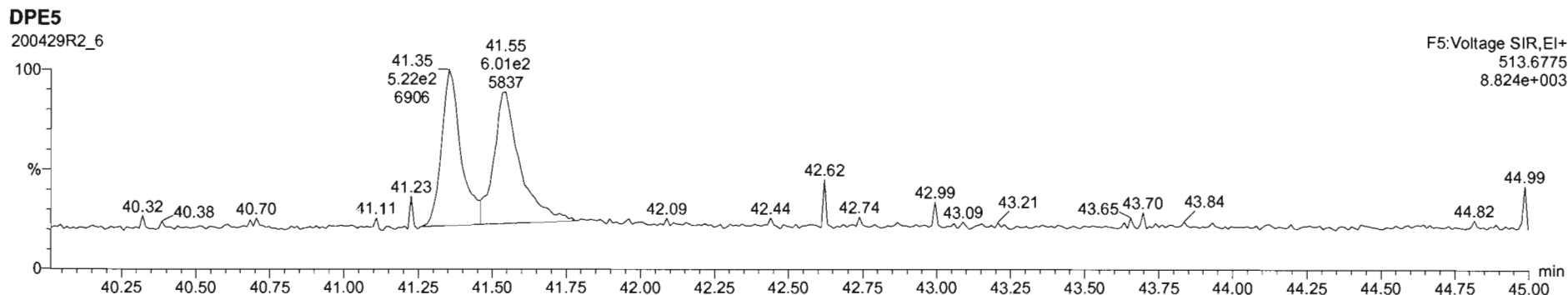
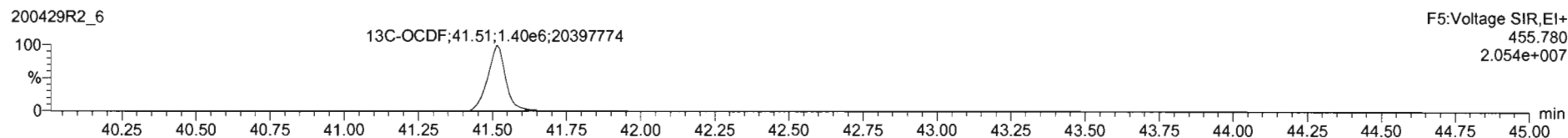
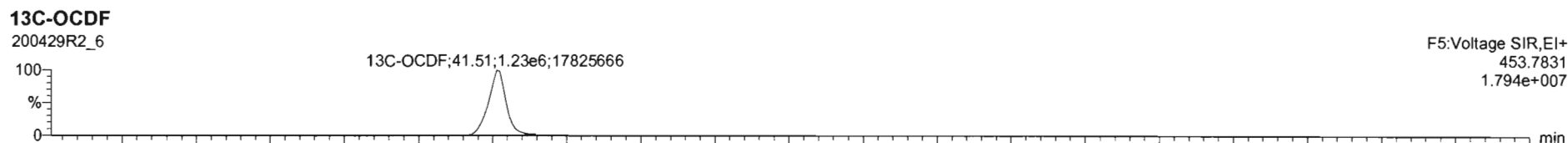
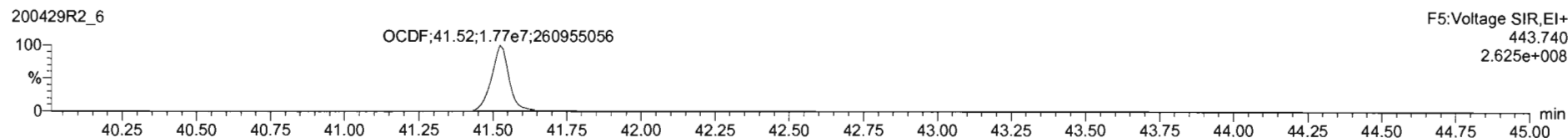
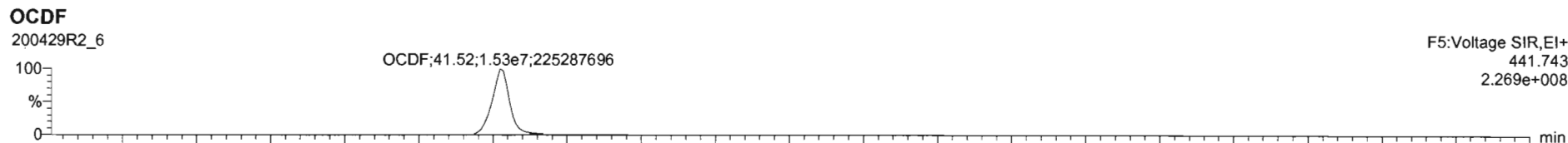
200429R2_6



Dataset: Untitled

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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

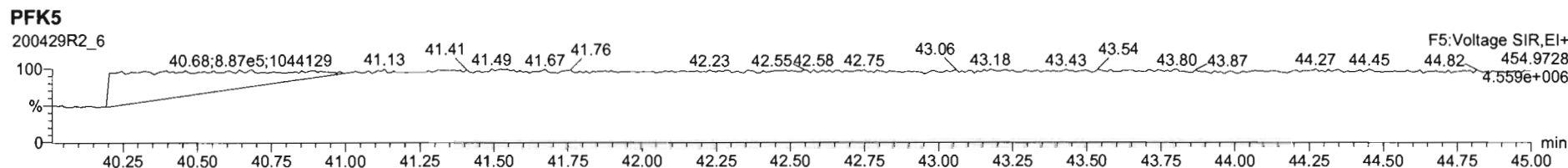
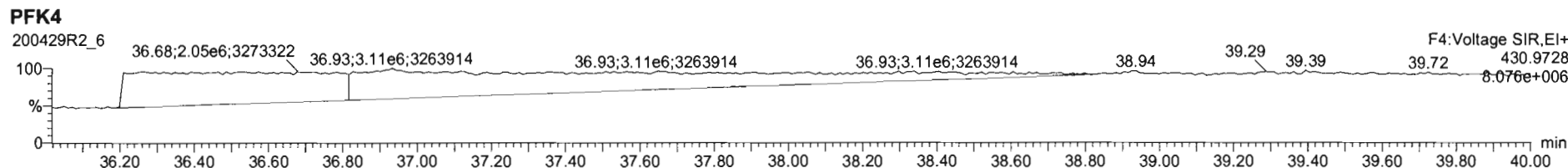
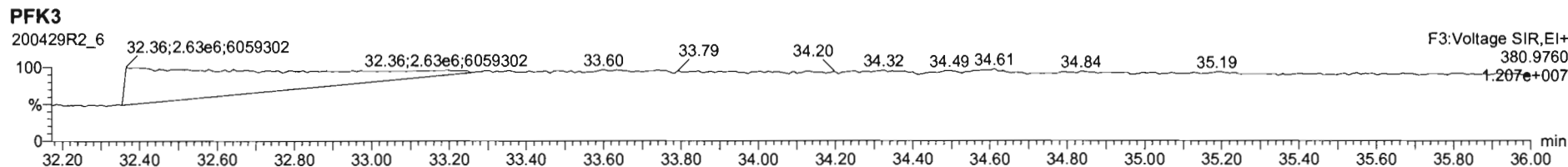
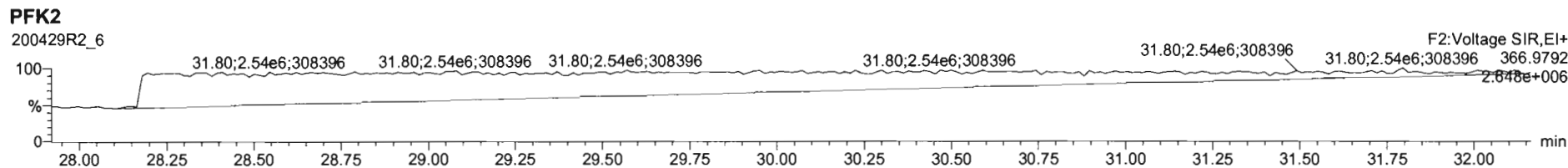
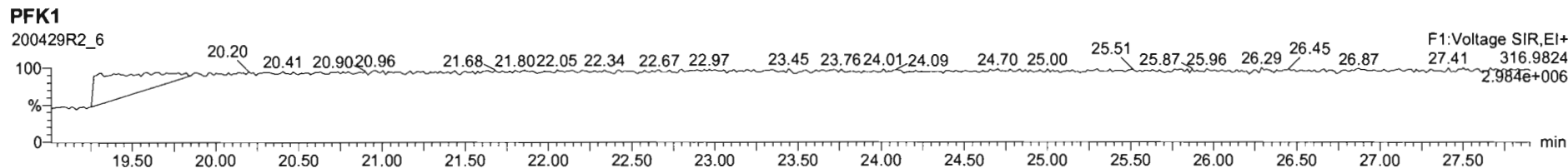
Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307



Dataset: Untitled

Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307



Dataset: U:\VG12.PRO\Results\200429R2\200429R2-8.qld

Last Altered: Thursday, April 30, 2020 8:35:25 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

GRB 04/30/2020

CT 04/30/2020

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

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

Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.947	1.000	26.081	26.07	1.001	1.001	11.205	112	0.0427	11.2
2	2 1,2,3,7,8-PeCDD	5.70e5	0.63	NO	0.942	1.000	31.147	31.14	1.001	1.000	56.141	112	0.0577	56.1
3	3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.06	1.000	34.505	34.51	1.000	1.000	58.046	116	0.102	58.0
4	4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.915	1.000	34.591	34.61	1.000	1.001	57.430	115	0.105	57.4
5	5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.915	1.000	34.878	34.88	1.000	1.000	58.193	116	0.120	58.2
6	6 1,2,3,4,6,7,8-HpCDD	3.49e5	1.04	NO	0.898	1.000	38.373	38.38	1.000	1.001	56.727	113	0.145	56.7
7	7 OCDD	6.53e5	0.88	NO	0.933	1.000	41.343	41.35	1.000	1.000	116.94	117	0.107	117
8	8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.787	1.000	25.117	25.12	1.001	1.001	11.247	112	0.0306	11.2
9	9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.910	1.000	29.834	29.83	1.001	1.001	55.836	112	0.0810	55.8
10	10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.966	1.000	30.836	30.82	1.001	1.000	60.816	122	0.0765	60.8
11	11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.878	1.000	33.632	33.64	1.000	1.000	55.918	112	0.109	55.9
12	12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.874	1.000	33.760	33.76	1.000	1.000	56.451	113	0.107	56.5
13	13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.922	1.000	34.359	34.33	1.001	1.000	56.186	112	0.118	56.2
14	14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.864	1.000	35.209	35.22	1.000	1.000	55.290	111	0.162	55.3
15	15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.871	1.000	36.982	36.97	1.001	1.001	54.863	110	0.153	54.9
16	16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.01	1.000	38.947	38.95	1.000	1.000	57.162	114	0.204	57.2
17	17 OCDF	6.13e5	0.86	NO	0.802	1.000	41.525	41.53	1.000	1.000	115.17	115	0.126	115
18	18 13C-2,3,7,8-TCDD	1.53e6	0.79	NO	1.16	1.000	26.046	26.05	1.026	1.027	91.114	91.1	0.0954	
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.847	1.000	31.141	31.13	1.227	1.227	87.564	87.6	0.0958	
20	20 13C-1,2,3,4,7,8-HxCDD	7.95e5	1.29	NO	0.750	1.000	34.496	34.49	1.014	1.014	88.379	88.4	0.183	
21	21 13C-1,2,3,6,7,8-HxCDD	1.03e6	1.29	NO	0.963	1.000	34.608	34.59	1.017	1.017	89.585	89.6	0.142	
22	22 13C-1,2,3,7,8,9-HxCDD	8.98e5	1.26	NO	0.838	1.000	34.877	34.87	1.025	1.025	89.402	89.4	0.164	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.86e5	1.10	NO	0.641	1.000	38.367	38.36	1.128	1.128	89.184	89.2	0.183	
24	24 13C-OCDD	1.20e6	0.86	NO	0.586	1.000	41.360	41.34	1.216	1.215	170.31	85.2	0.144	
25	25 13C-2,3,7,8-TCDF	2.25e6	0.78	NO	1.03	1.000	25.104	25.09	0.989	0.989	92.189	92.2	0.134	
26	26 13C-1,2,3,7,8-PeCDF	1.77e6	1.60	NO	0.845	1.000	29.829	29.81	1.176	1.175	88.893	88.9	0.195	
27	27 13C-2,3,4,7,8-PeCDF	1.71e6	1.60	NO	0.814	1.000	30.822	30.81	1.215	1.214	88.919	88.9	0.203	
28	28 13C-1,2,3,4,7,8-HxCDF	1.12e6	0.51	NO	1.00	1.000	33.635	33.63	0.989	0.989	93.115	93.1	0.212	
29	29 13C-1,2,3,6,7,8-HxCDF	1.26e6	0.51	NO	1.14	1.000	33.757	33.75	0.992	0.992	92.434	92.4	0.187	
30	30 13C-2,3,4,6,7,8-HxCDF	1.12e6	0.51	NO	1.02	1.000	34.326	34.33	1.009	1.009	91.031	91.0	0.208	
31	31 13C-1,2,3,7,8,9-HxCDF	9.97e5	0.51	NO	0.845	1.000	35.217	35.21	1.035	1.035	98.412	98.4	0.252	

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Printed: Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.59e5	0.43	NO	0.771	1.000	36.948	36.94	1.086	1.086	92.960	93.0	0.284	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.17e5	0.43	NO	0.482	1.000	38.959	38.95	1.145	1.145	89.503	89.5	0.455	
34	34 13C-OCDF	1.33e6	0.88	NO	0.669	1.000	41.530	41.53	1.221	1.221	165.58	82.8	0.146	
35	35 37Cl-2,3,7,8-TCDD	1.58e5			1.10	1.000	26.076	26.07	1.028	1.027	9.8763	98.8	0.0151	
36	36 13C-1,2,3,4-TCDD	1.45e6	0.81	NO	1.00	1.000	25.350	25.38	1.000	1.000	100.00	100	0.111	
37	37 13C-1,2,3,4-TCDF	2.36e6	0.79	NO	1.00	1.000	23.560	23.59	1.000	1.000	100.00	100	0.139	
38	38 13C-1,2,3,4,6,9-HxCDF	1.20e6	0.51	NO	1.00	1.000	34.000	34.02	1.000	1.000	100.00	100	0.213	

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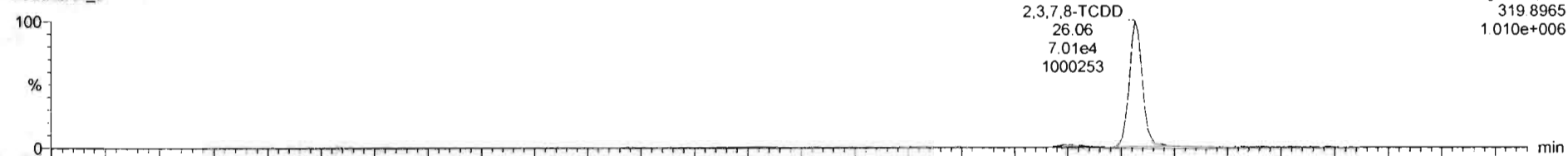
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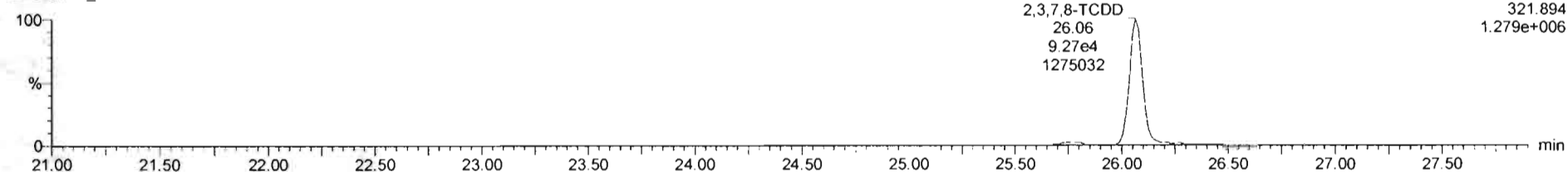
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2,3,7,8-TCDD

200429R2_8

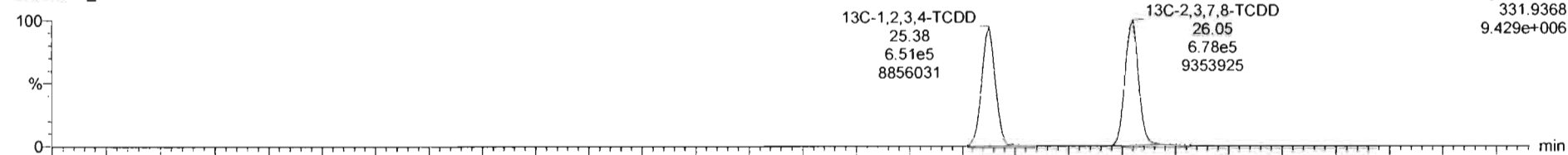


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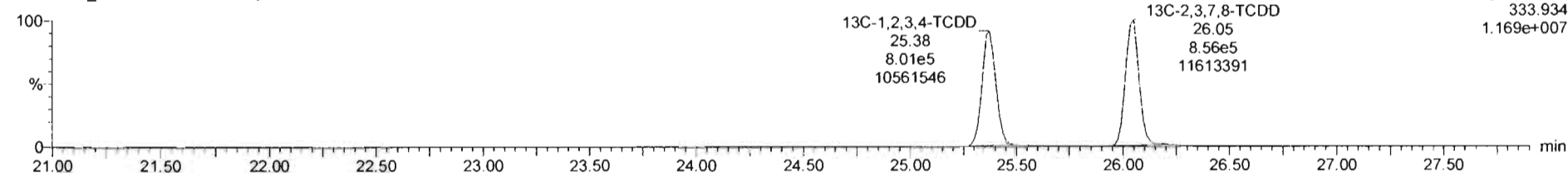


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200429R2_8



200429R2_8



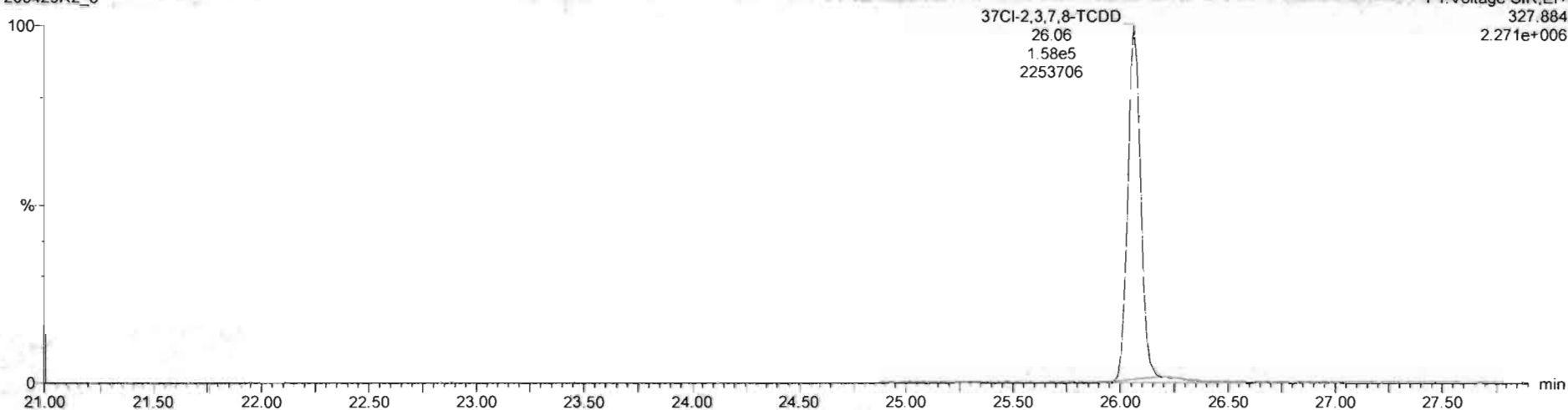
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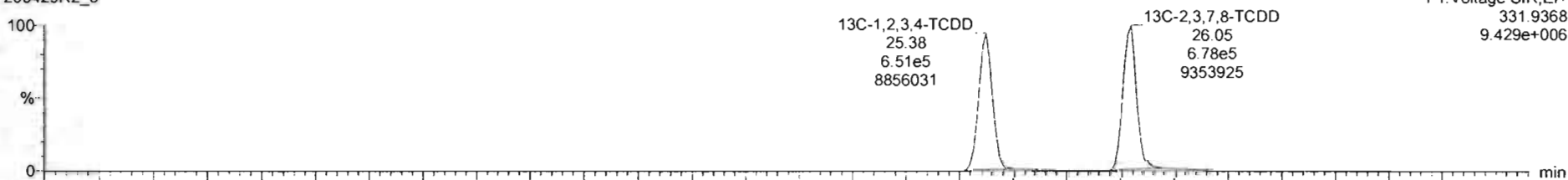
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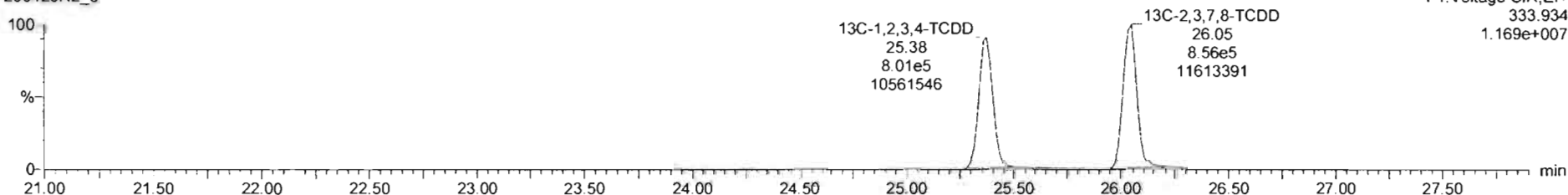


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200429R2_8



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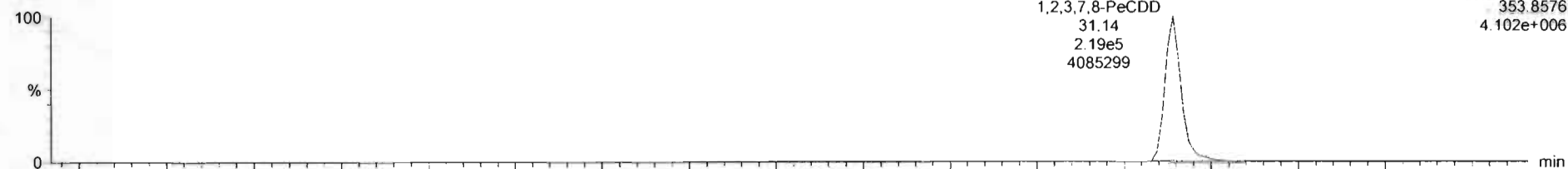
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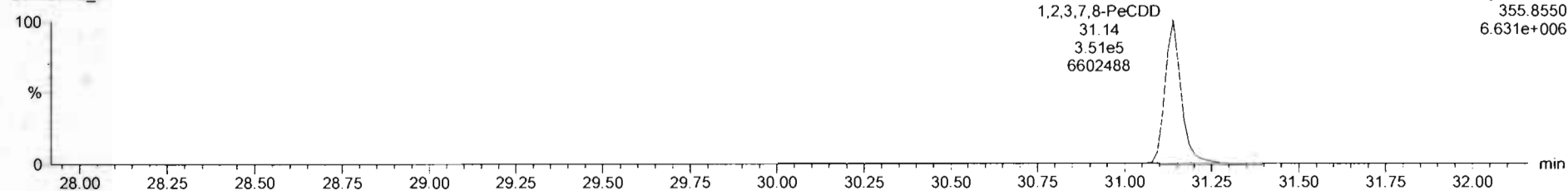
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1,2,3,7,8-PeCDD

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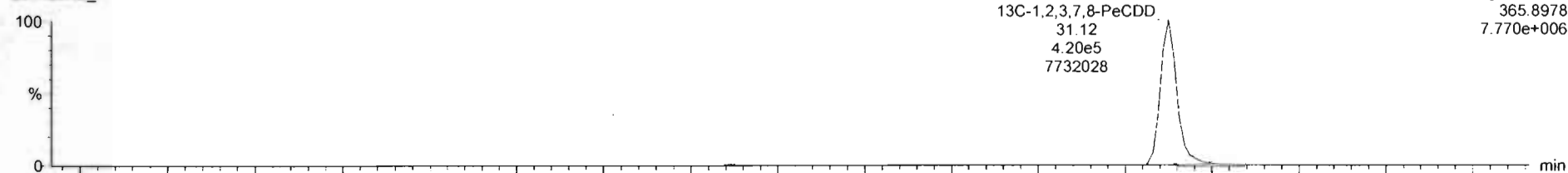


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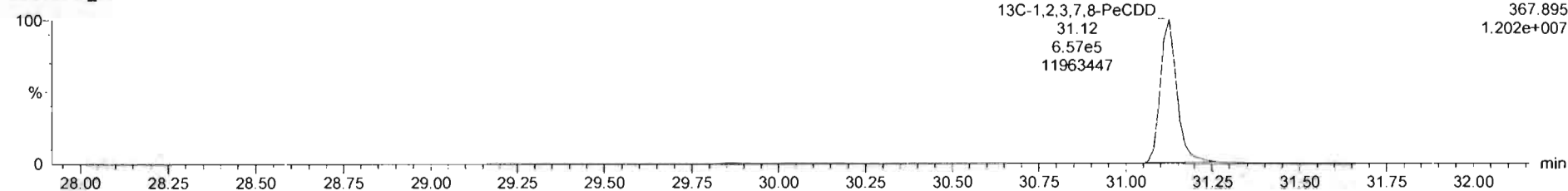


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200429R2_8



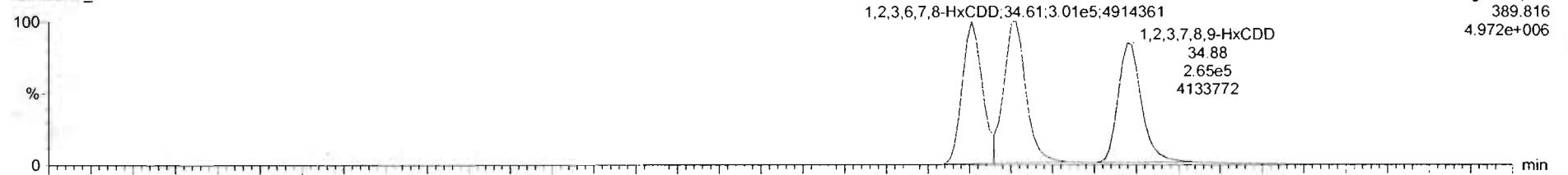
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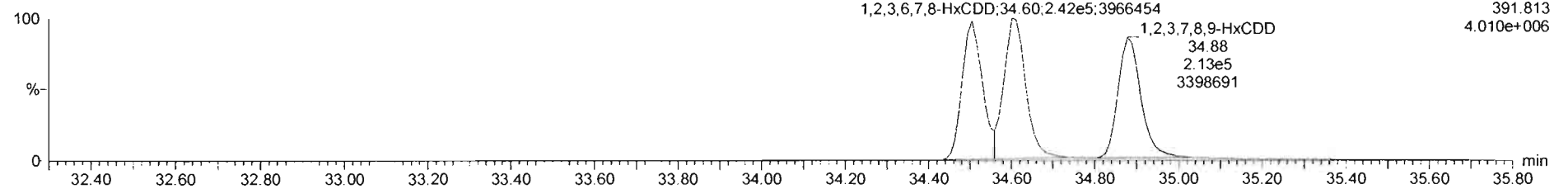
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1,2,3,4,7,8-HxCDD

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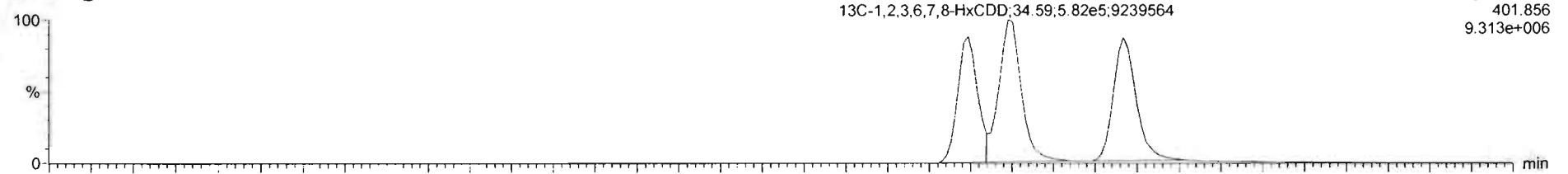


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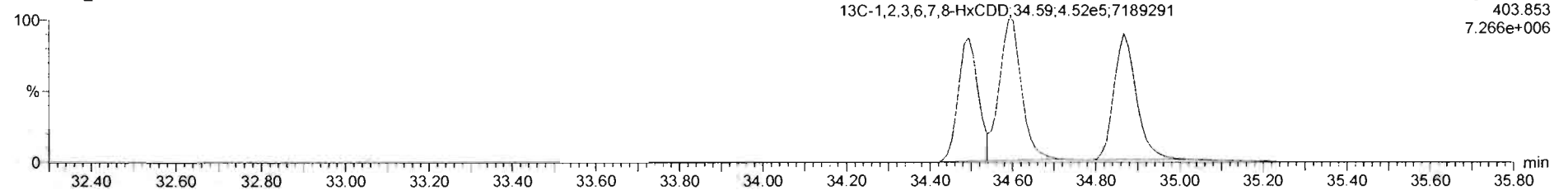


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200429R2_8



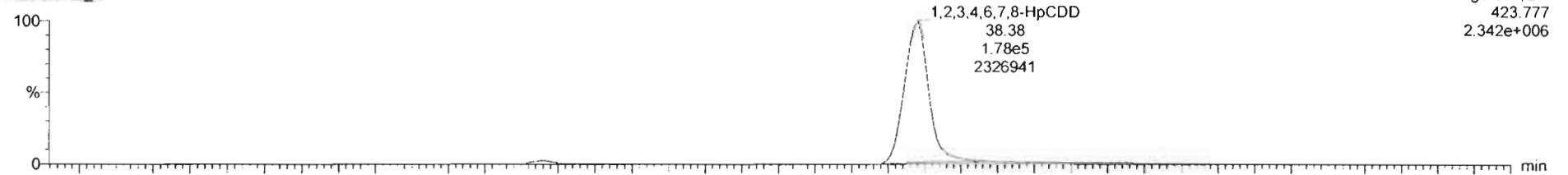
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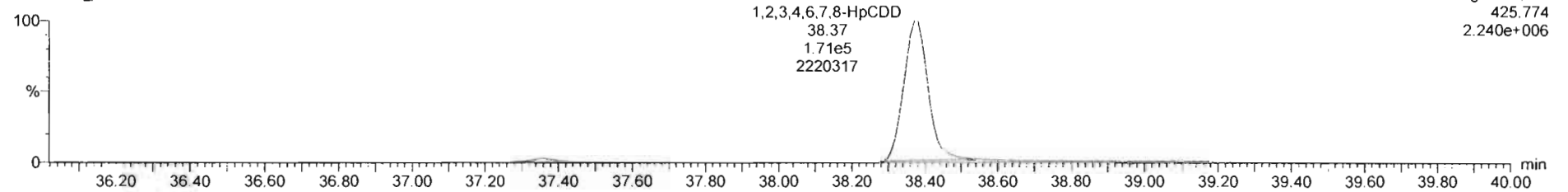
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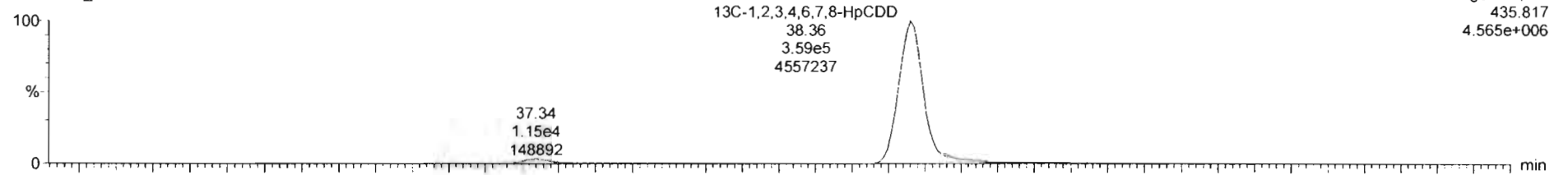


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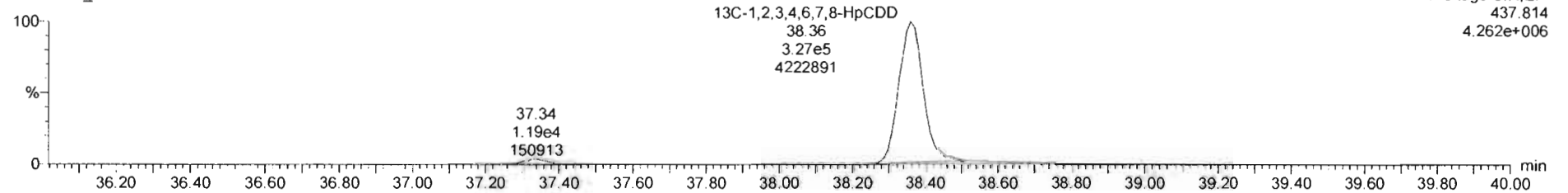


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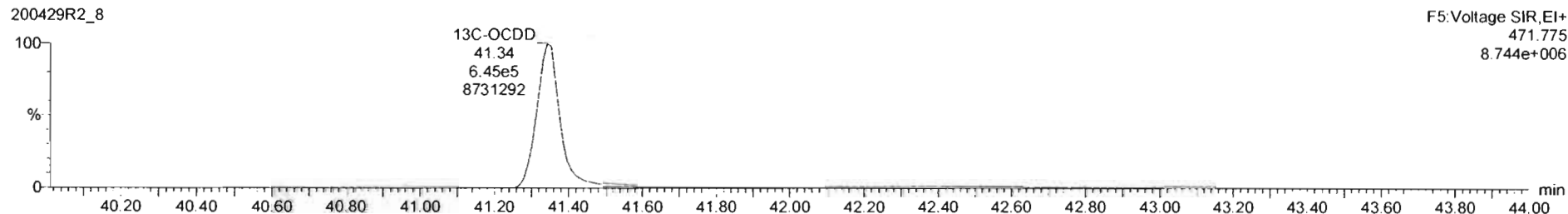
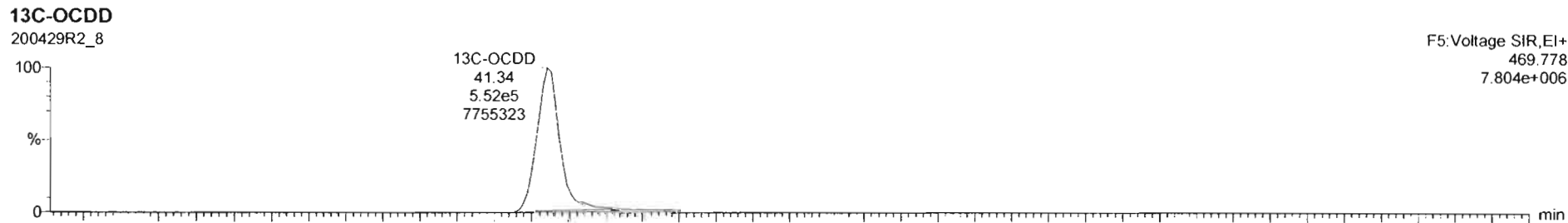
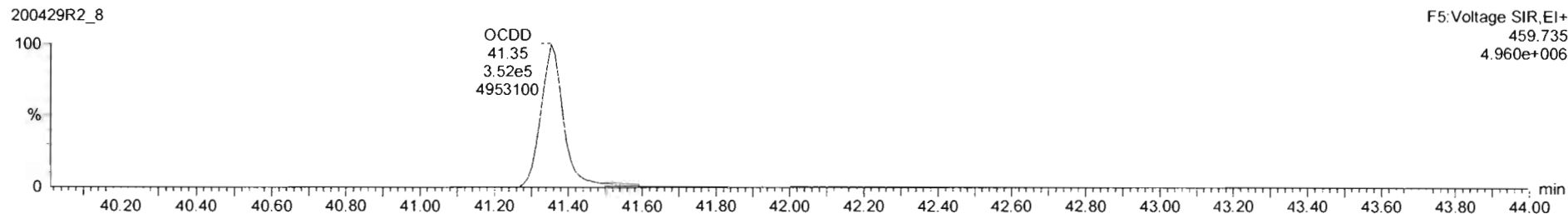
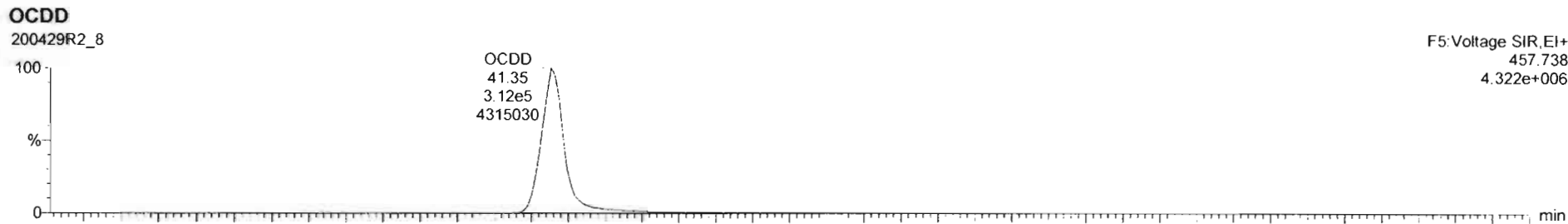


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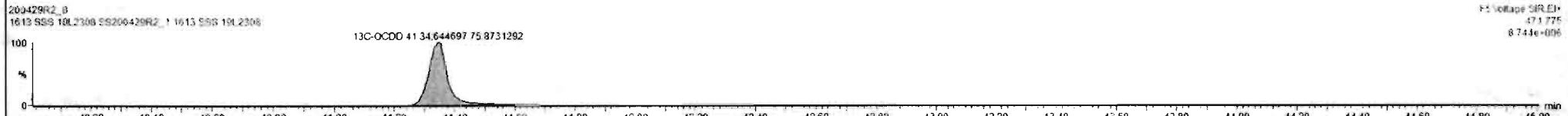
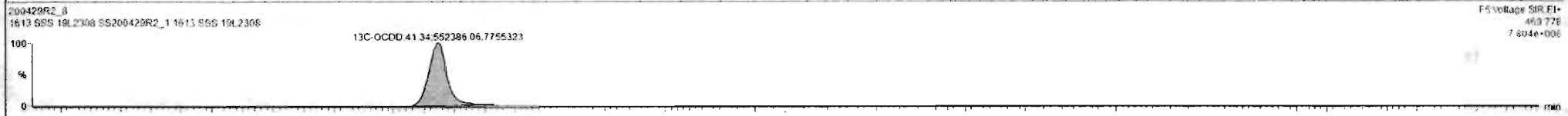
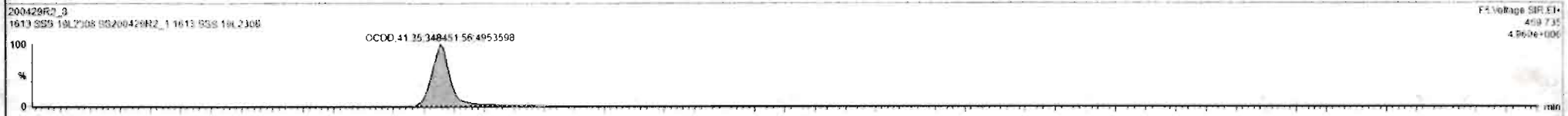
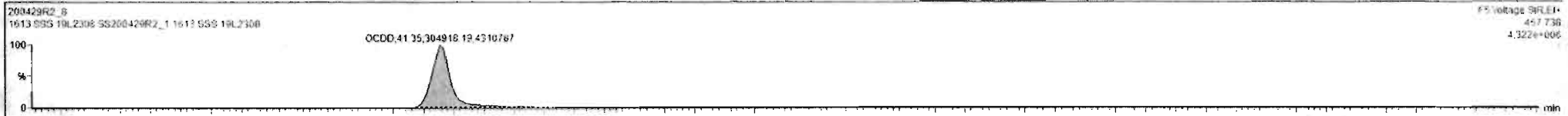
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Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Name	Resp	RA	inj	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2 1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	56.0	11.6	0.102	56.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.88	1.000	58.2	11.6	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8919	1.000	36.38	1.001	56.7	11.3	0.145	56.7
7 OCDD	6.53e5	0.55	NO	0.9325	1.000	41.35	1.000	117	11.7	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9 1,2,3,7,8-PeCDF	5.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	11.2	0.0810	55.8
10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.9664	1.000	30.82	1.000	60.8	12.2	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.22	NO	0.8782	1.000	33.64	1.000	55.9	11.2	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.78	1.000	56.5	11.3	0.107	56.5
13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8542	1.000	35.22	1.000	55.3	11.1	0.152	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	11.0	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	11.4	0.204	57.2
17 OCDF	0.13e5	0.66	NO	0.8021	1.000	41.53	1.000	115	11.5	0.158	115



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200429R2_8

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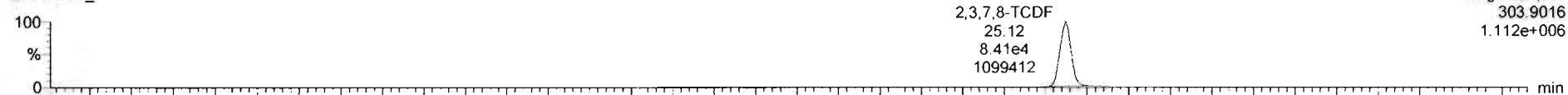
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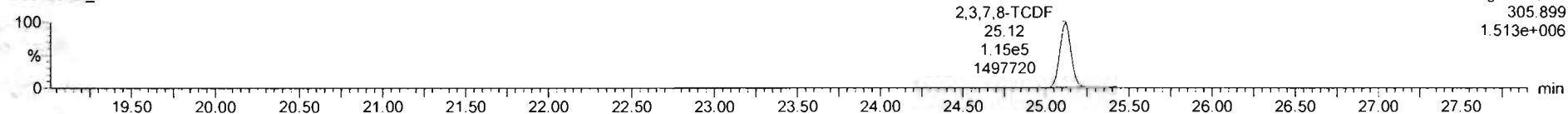
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2,3,7,8-TCDF

200429R2_8

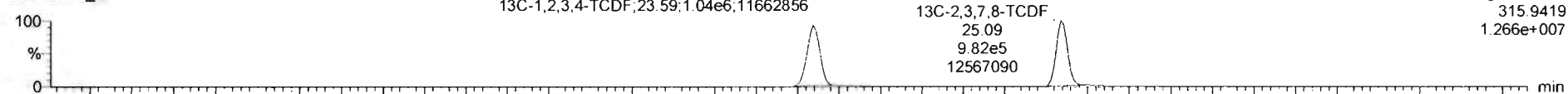


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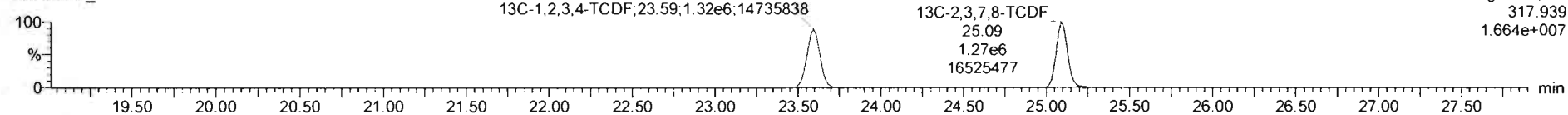


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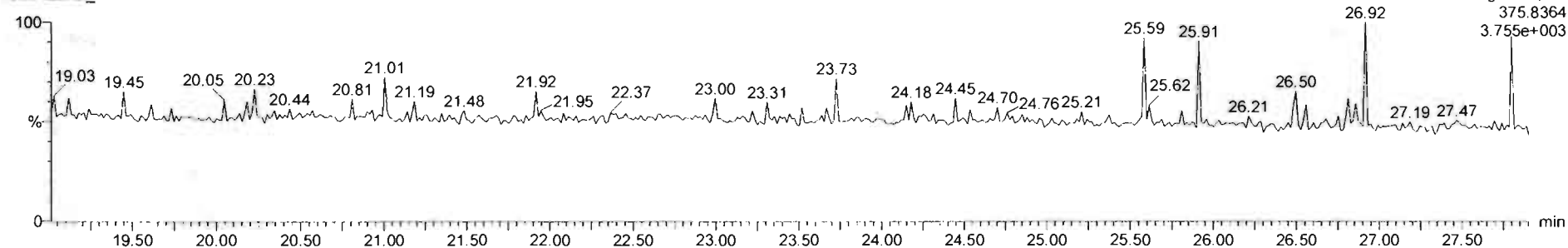


200429R2_8



DPE1

200429R2_8



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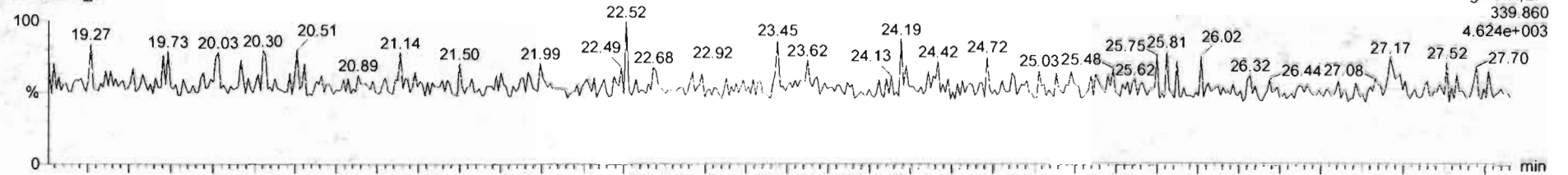
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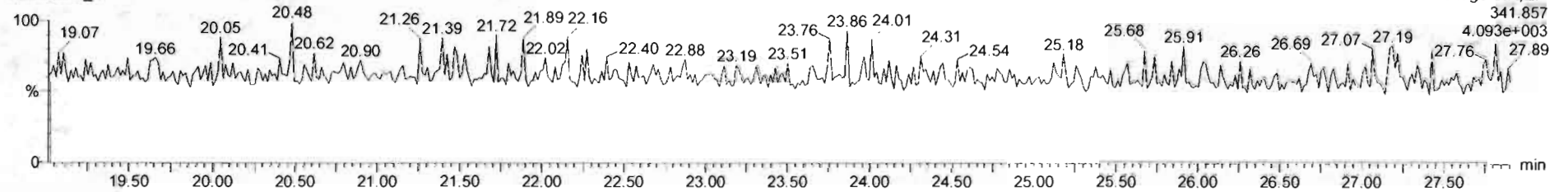
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200429R2_8

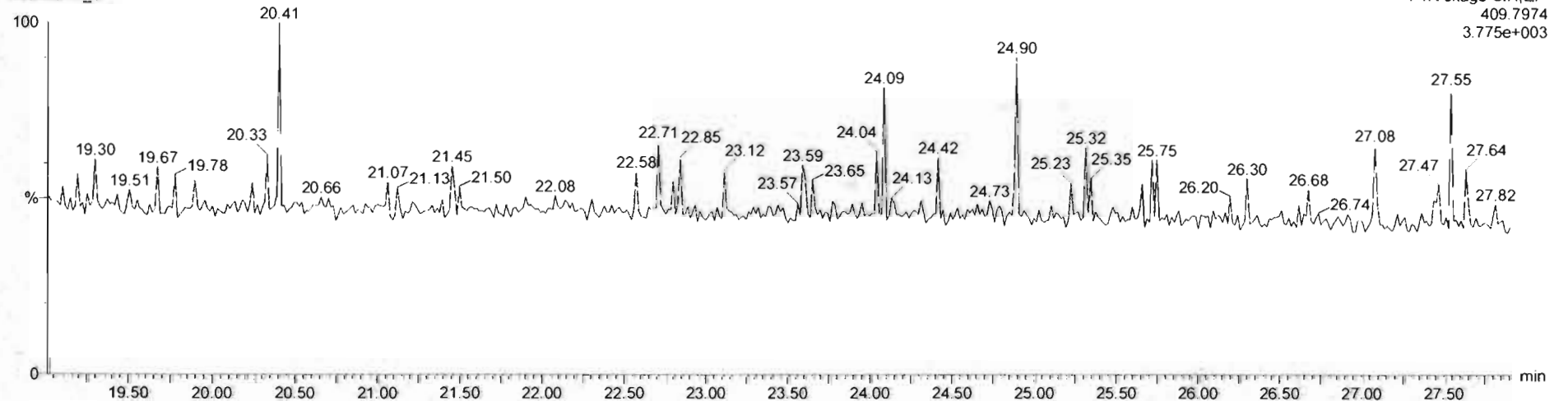


200429R2_8



DPE6

200429R2_8



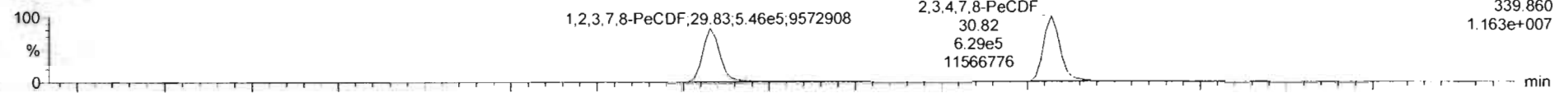
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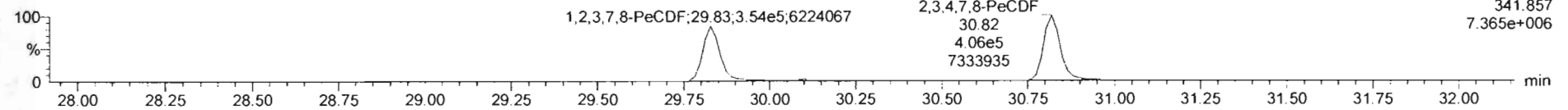
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1,2,3,7,8-PeCDF

200429R2_8

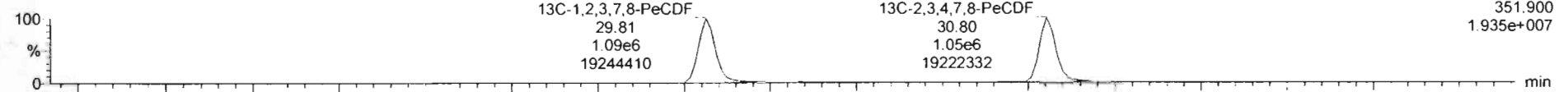


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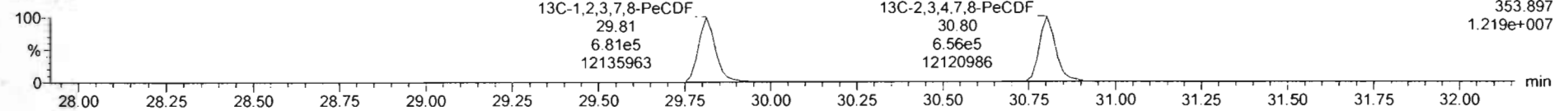


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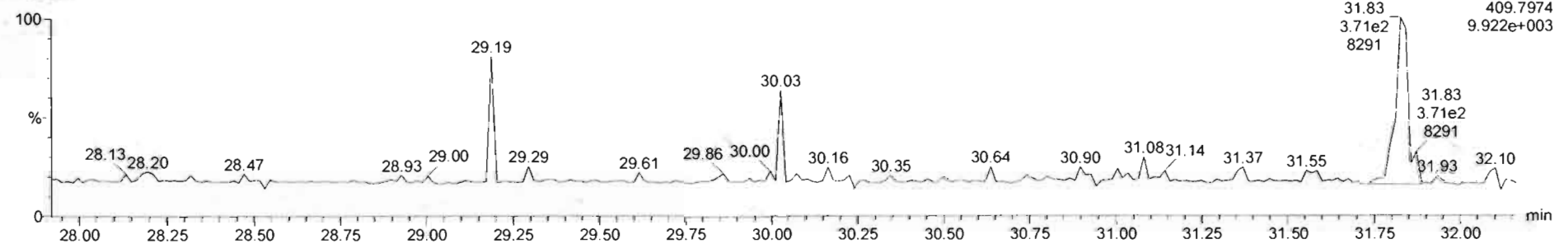


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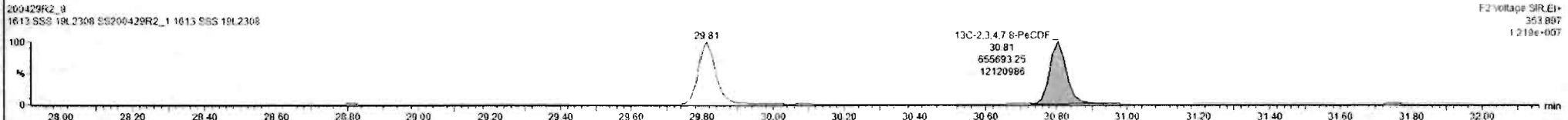
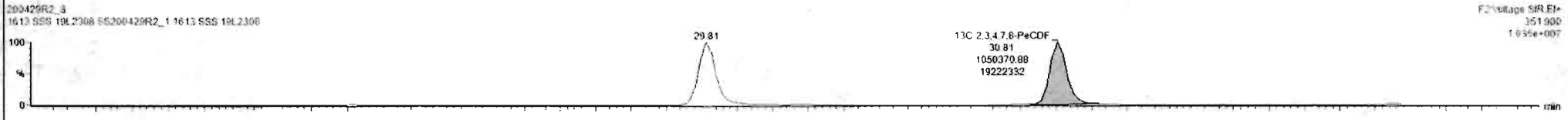
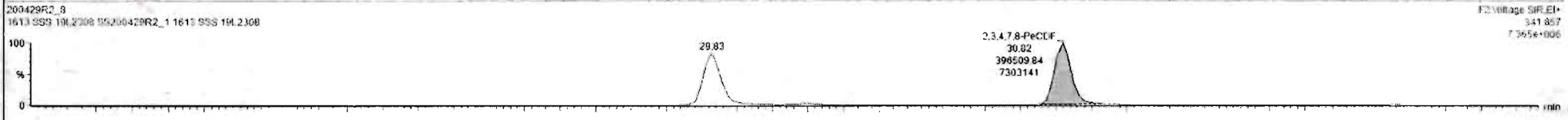
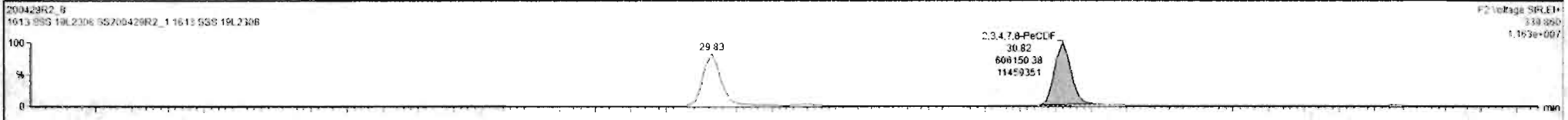
DPE2

200429R2_8



200429R2_8 1613 SSS 19L 2308 1613 SSS 19L 2308

Name	Resp	RA	inj	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	29.07	1.001	11.2	112	0.0427	11.2
2 1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	112	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	56.0	116	0.102	58.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	115	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9145	1.000	34.83	1.000	58.2	116	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.46e5	1.04	NO	0.8979	1.000	36.85	1.001	56.7	113	0.145	56.7
7 OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	117	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	112	0.0306	11.2
9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.81	1.001	55.6	112	0.0810	55.6
10 2,3,4,7,8-PeCDF	1.00e6	1.53	ND	0.9664	1.000	30.82	1.000	66.3	122	0.0755	66.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.22	NO	0.8782	1.000	33.64	1.000	55.9	112	0.109	55.5
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	32.76	1.000	56.5	113	0.107	56.5
13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	112	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.78e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	111	0.162	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	110	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.0116	1.000	38.95	1.000	57.2	114	0.204	57.2
17 OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	115	0.126	115



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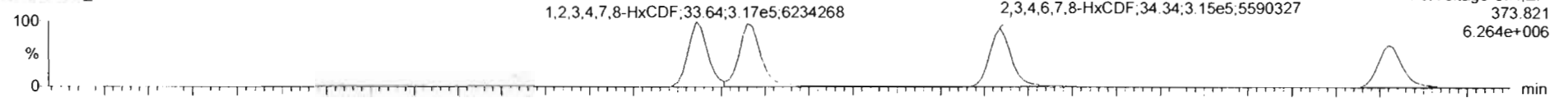
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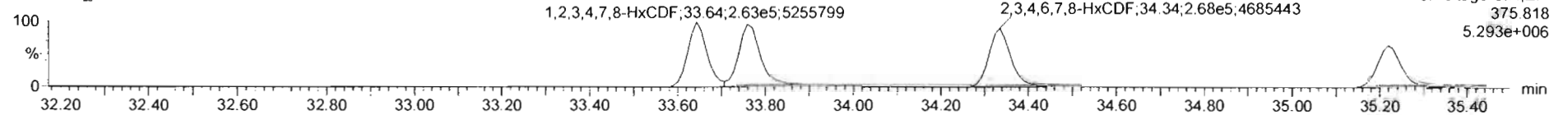
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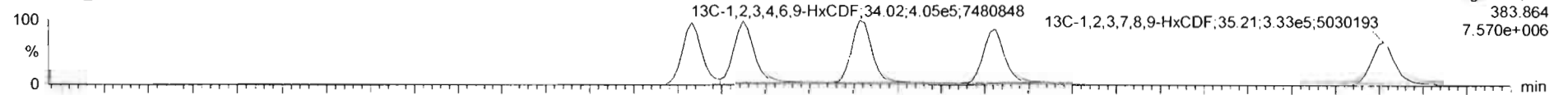


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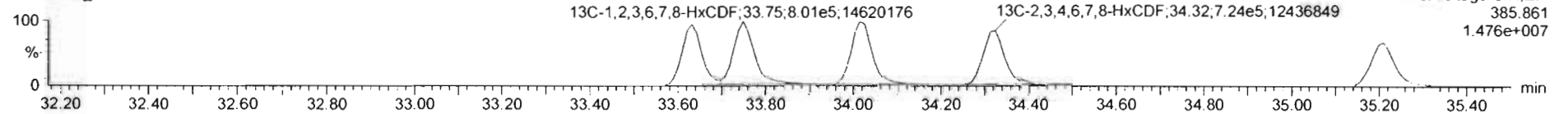


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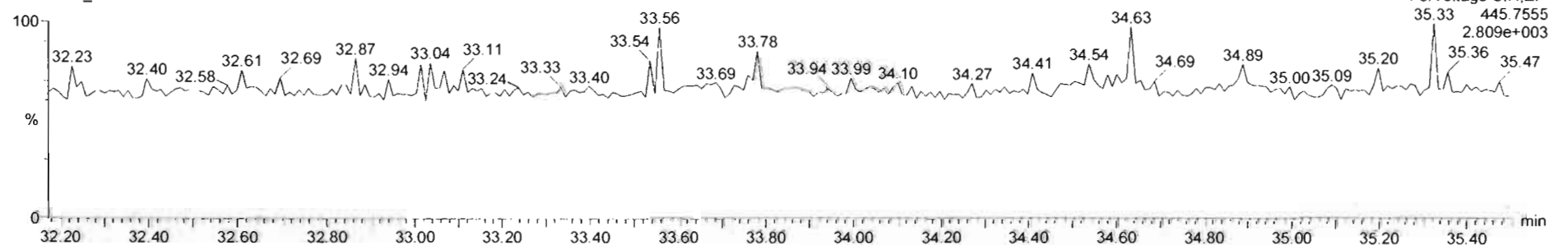


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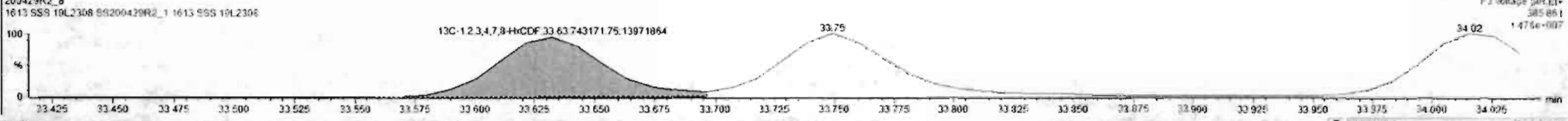
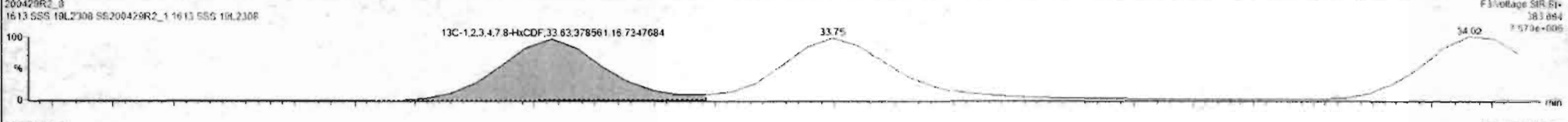
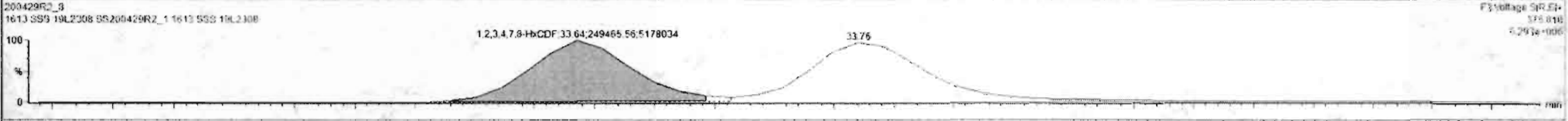
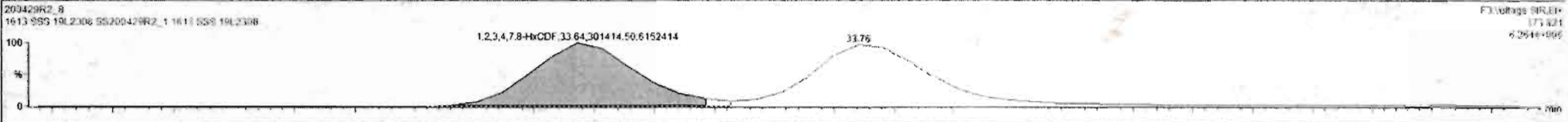
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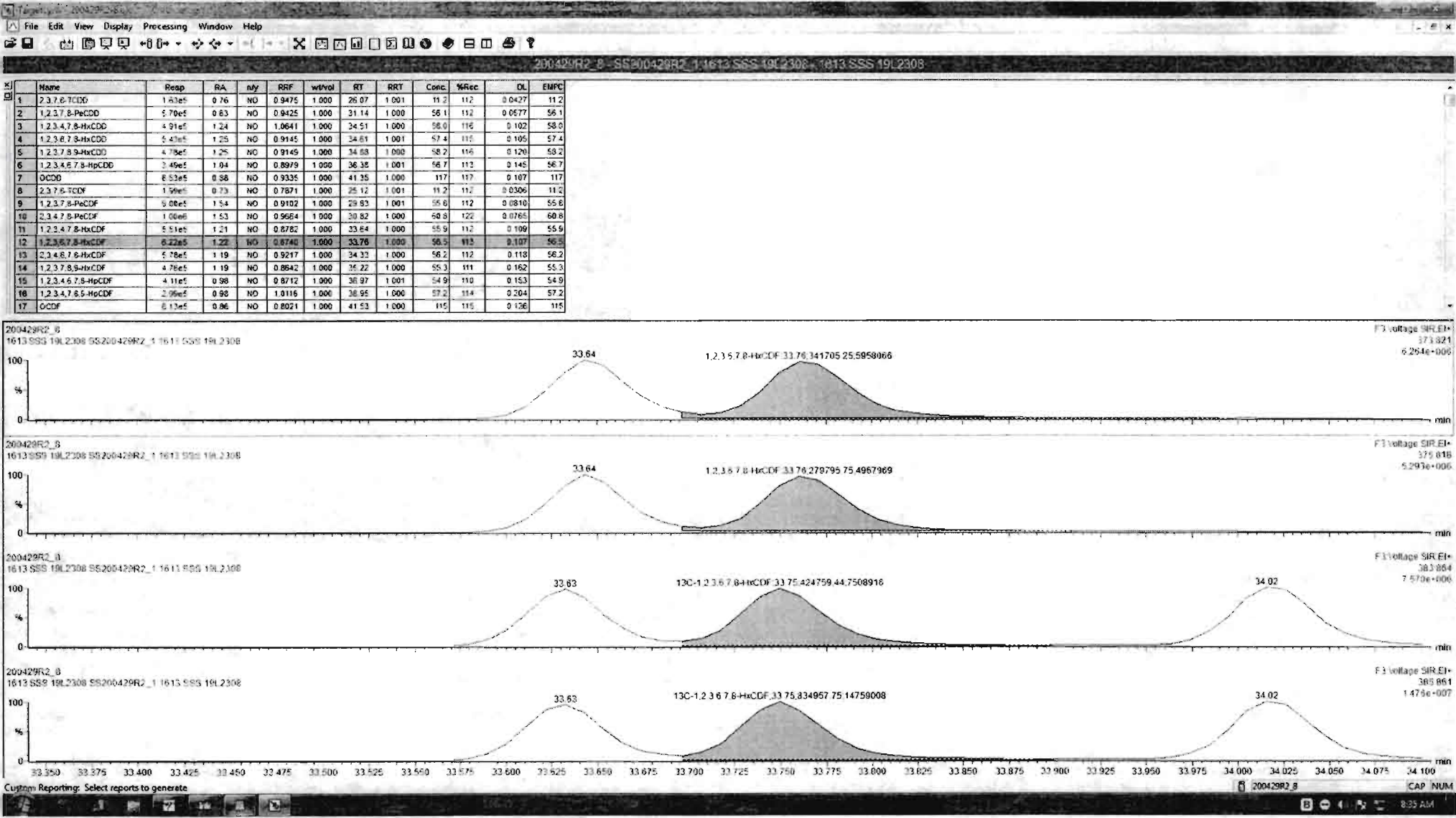
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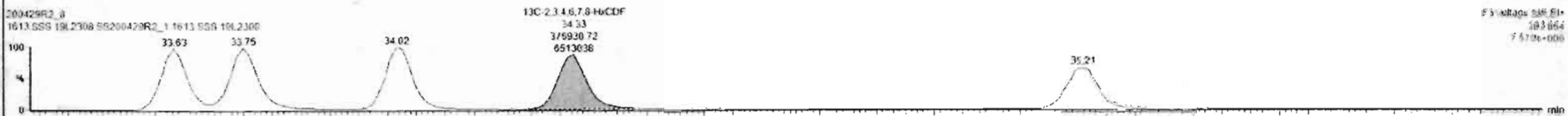
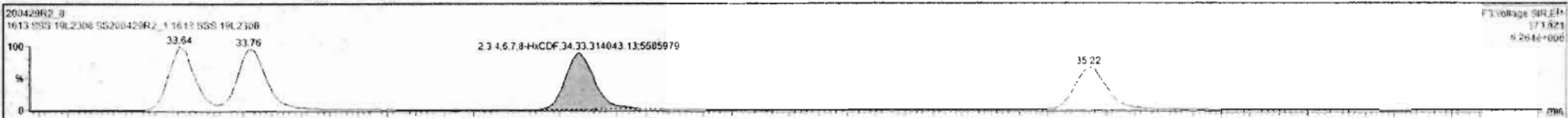
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1	2,3,7,8-TCDF	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	112	0.0427	11.2
2	1,2,3,7,8-PeCDF	5.79e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	112	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	116	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.01	1.001	57.4	115	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.08	1.000	58.2	116	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.36	1.001	56.7	113	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	117	0.107	117
8	2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	112	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.08e5	1.54	NO	0.9192	1.000	29.93	1.001	55.6	112	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	122	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.31	NO	0.6782	1.000	33.64	1.000	55.9	112	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	113	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	112	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.78e5	1.19	NO	0.8542	1.000	35.22	1.000	55.3	111	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	110	0.153	54.9
16	1,2,3,4,7,8,9-HpCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	114	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	115	0.126	115

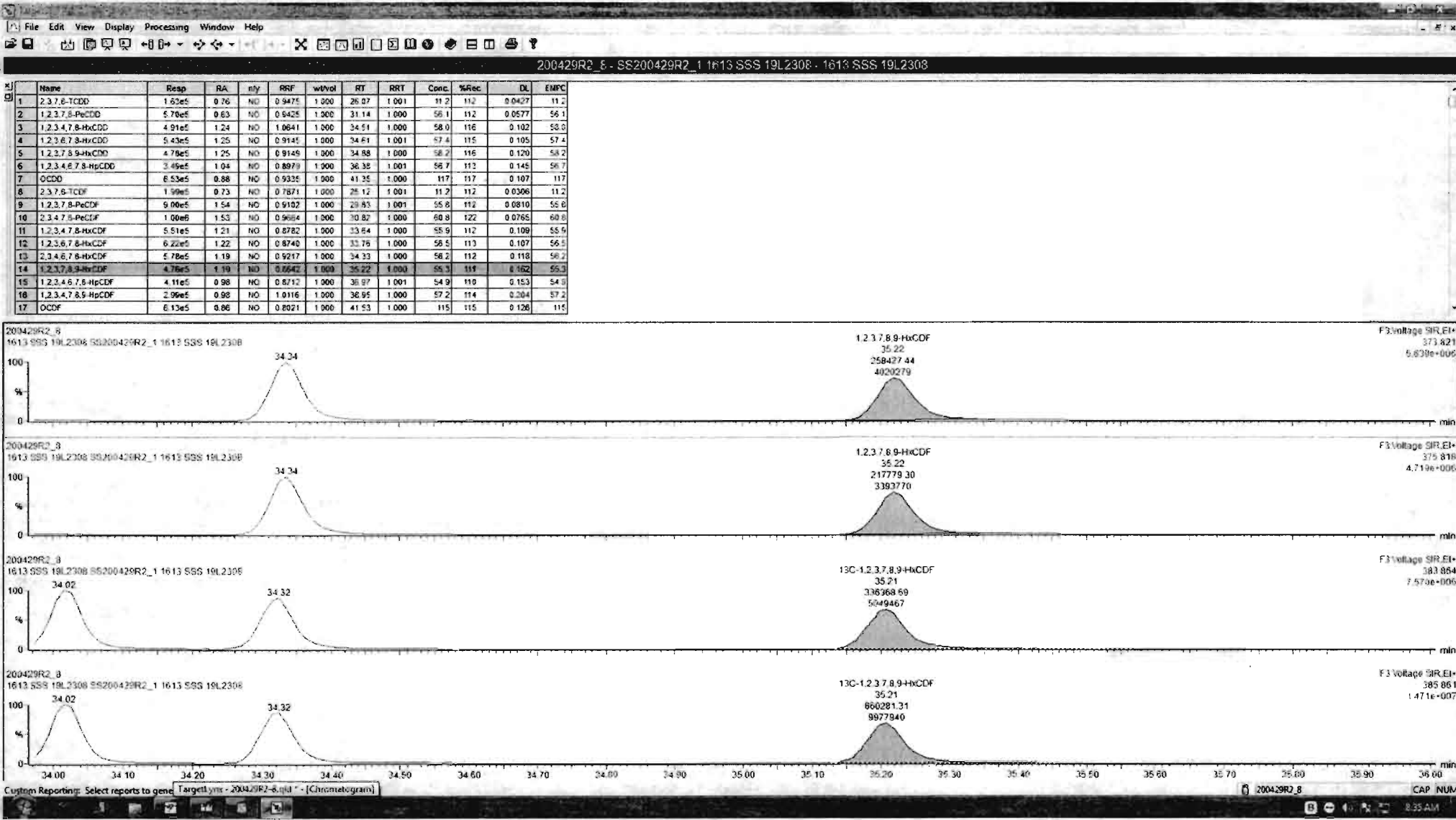




#	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.7	11.2	0.0427	11.2
2	1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.6	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9145	1.000	34.88	1.000	58.2	11.6	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.38	1.001	58.7	11.3	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8	2,3,7,8-TCDF	1.59e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	11.2	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e6	1.52	NO	0.9654	1.000	29.82	1.000	60.8	12.2	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.64	1.000	55.9	11.2	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	11.3	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.79e5	1.18	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	11.1	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	11.0	0.153	54.9
16	1,2,3,4,7,8,9-HoCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	11.4	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.6	0.126	115



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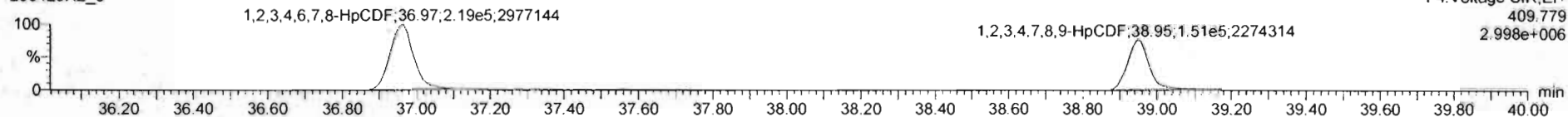
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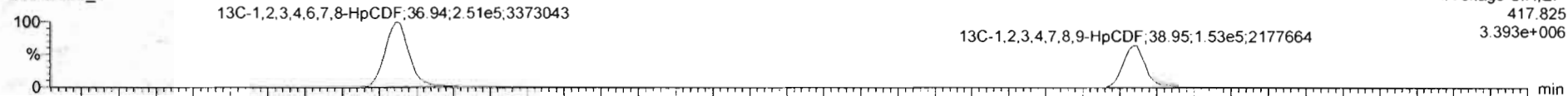


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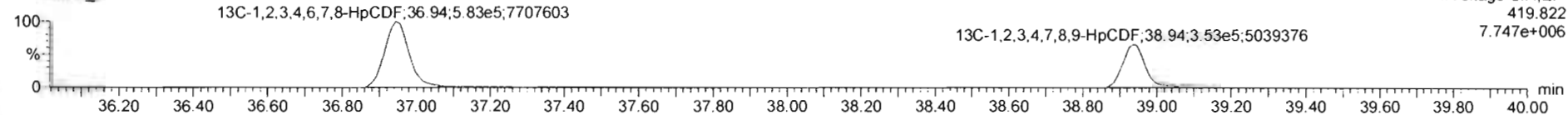


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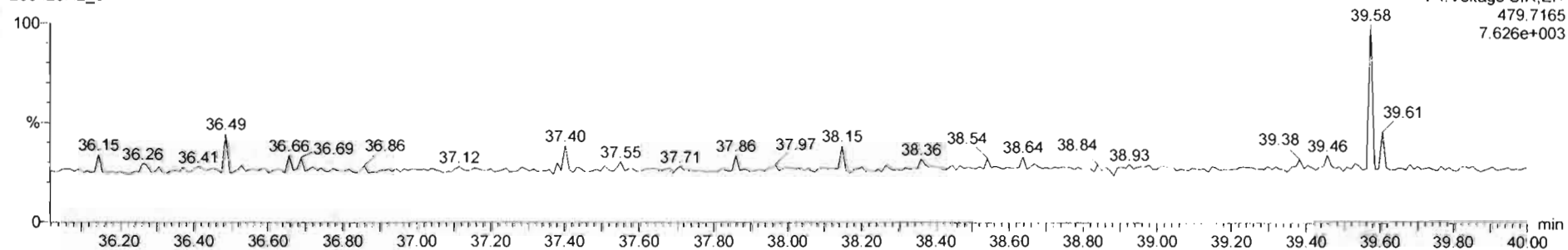


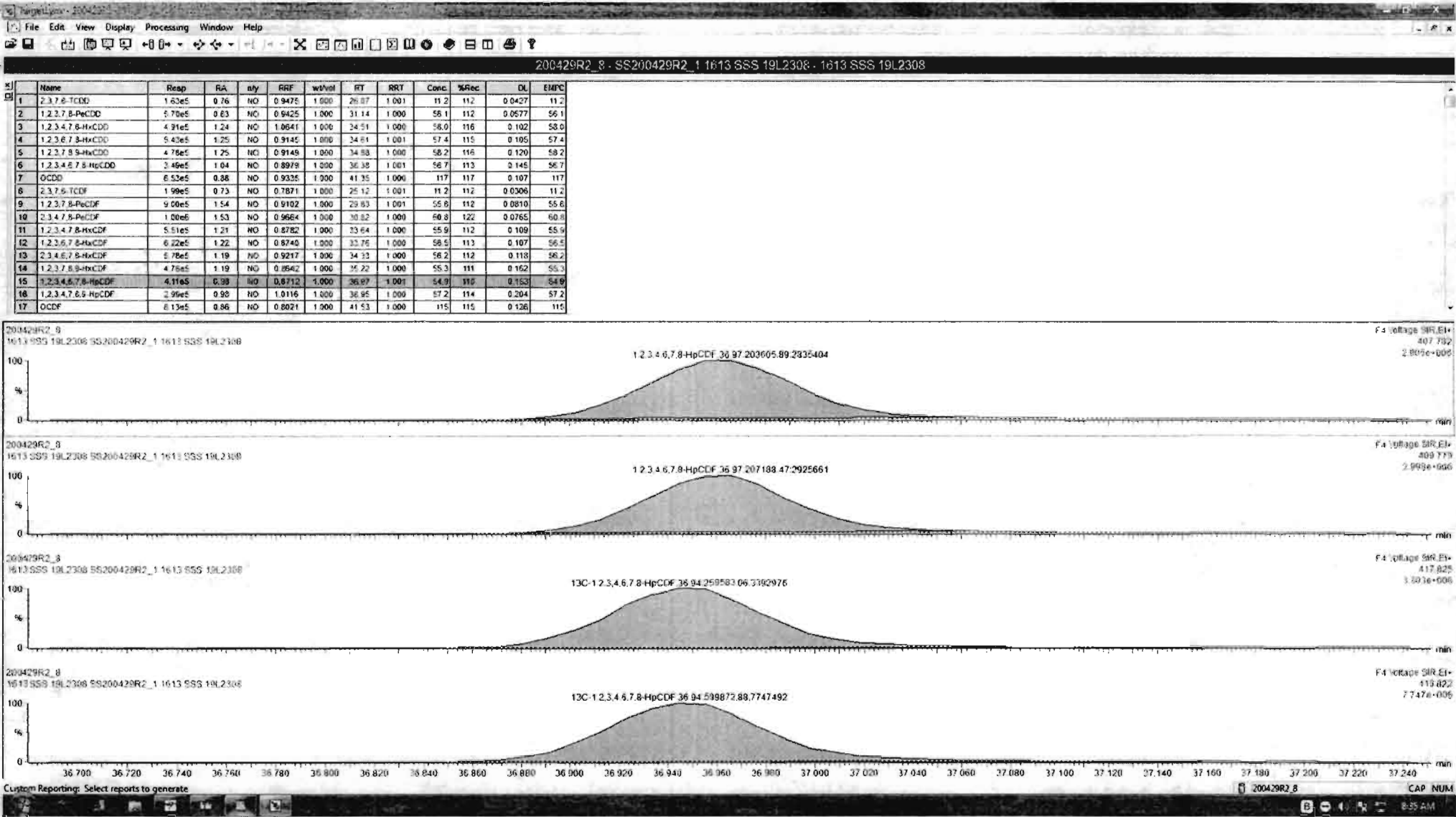
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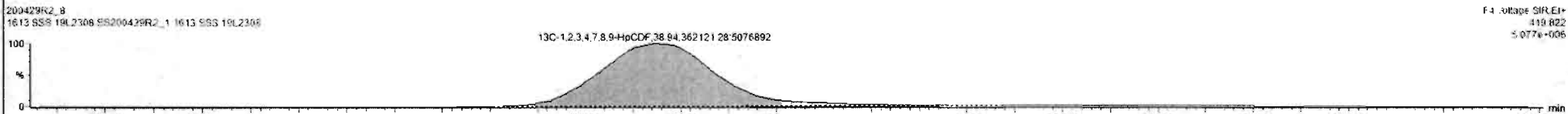
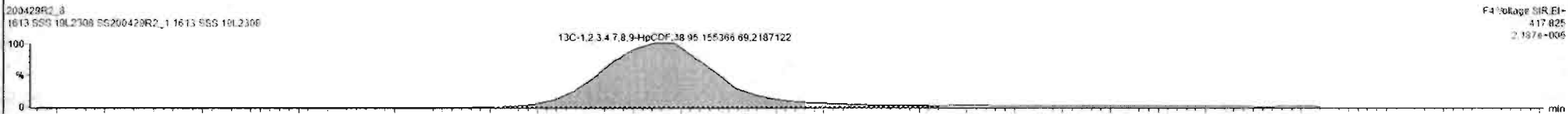
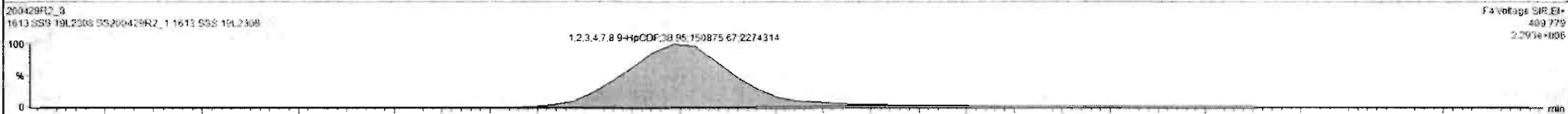
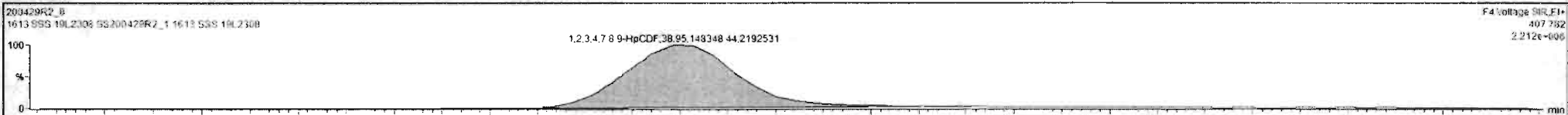
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Name	Resp	RA	dy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.62e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2 1,2,3,7,8-PeCDD	4.70e5	0.83	NO	0.9425	1.000	31.14	1.000	58.1	11.2	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.76e5	1.25	NO	0.9145	1.000	34.68	1.000	58.2	11.6	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.35	1.001	56.7	11.2	0.145	56.7
7 OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.63	1.001	55.6	11.2	0.0810	55.6
10 2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	12.2	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.84	1.000	55.9	11.2	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	58.5	11.3	0.107	56.5
13 2,3,4,6,7,8-HxCDF	4.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	34.22	1.000	55.3	11.1	0.162	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.86	NO	0.8712	1.000	35.97	1.001	54.9	11.0	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.95e5	0.96	NO	1.0115	1.000	35.95	1.000	57.2	11.4	0.204	57.2
17 OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.5	0.126	115



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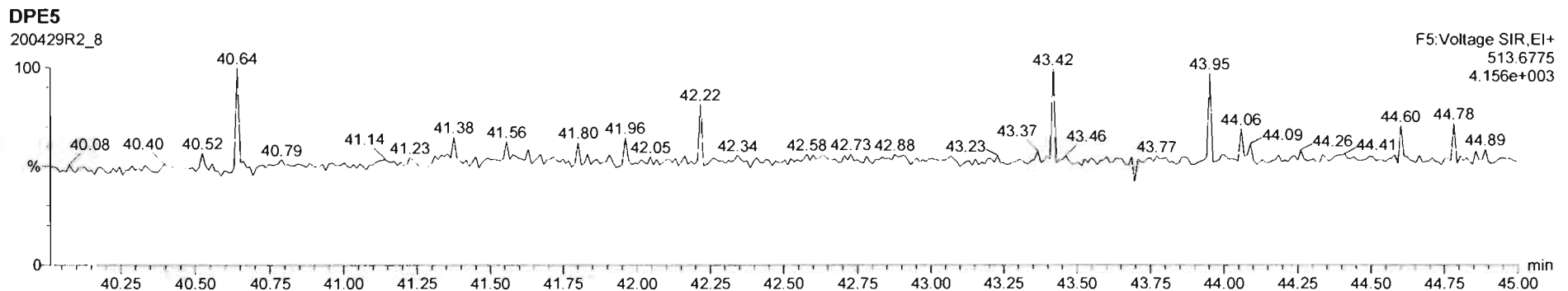
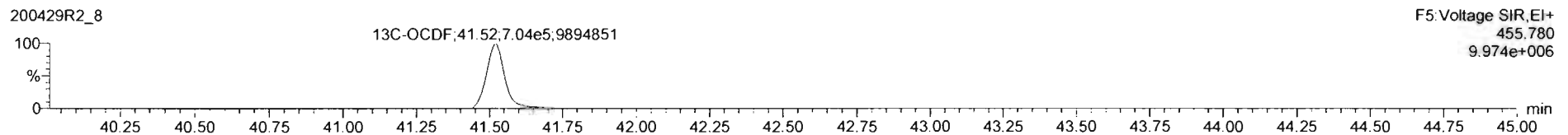
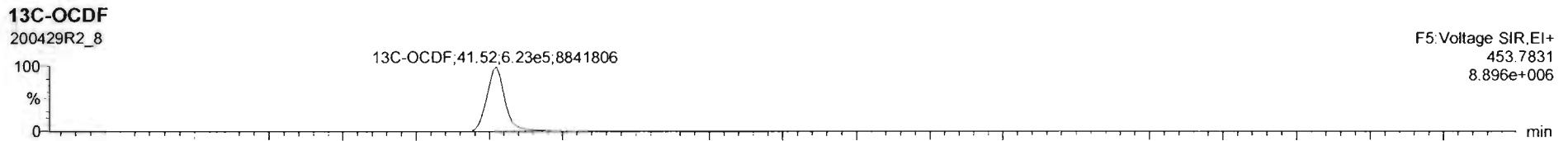
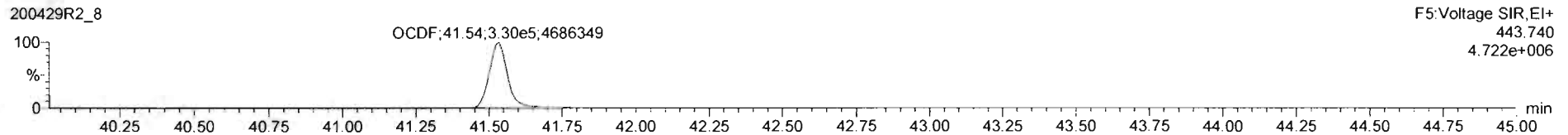
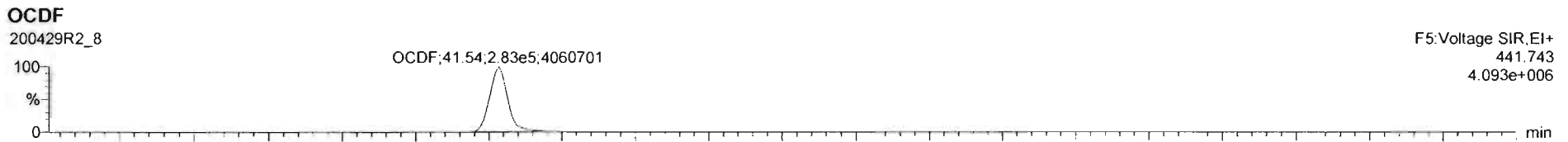
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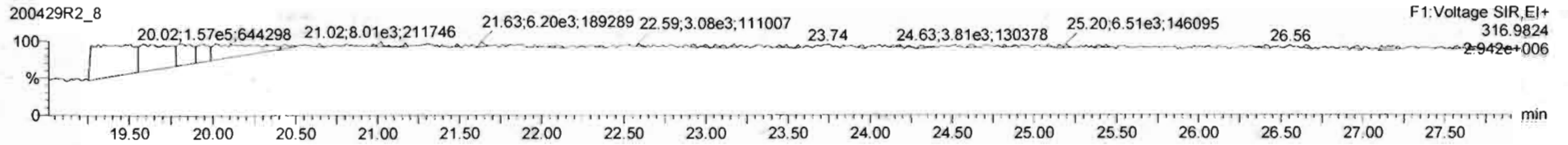
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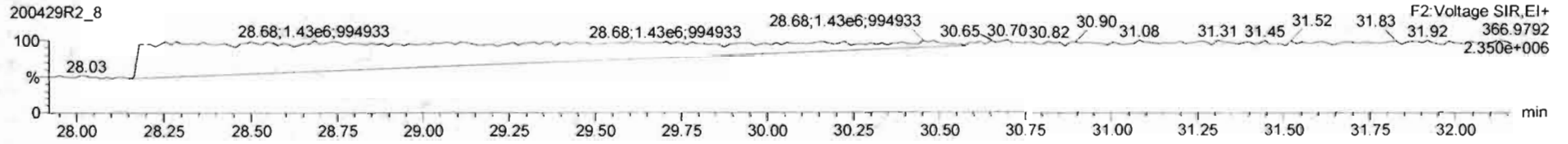
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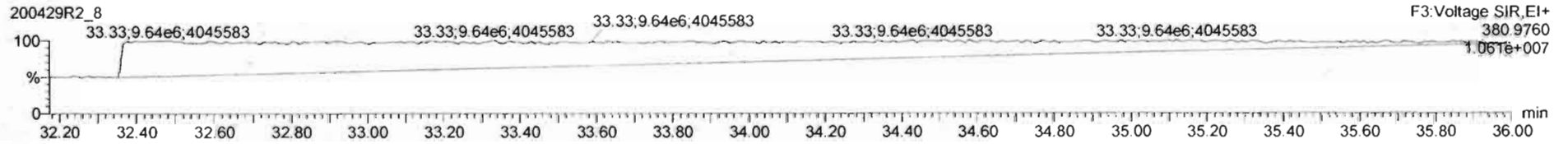
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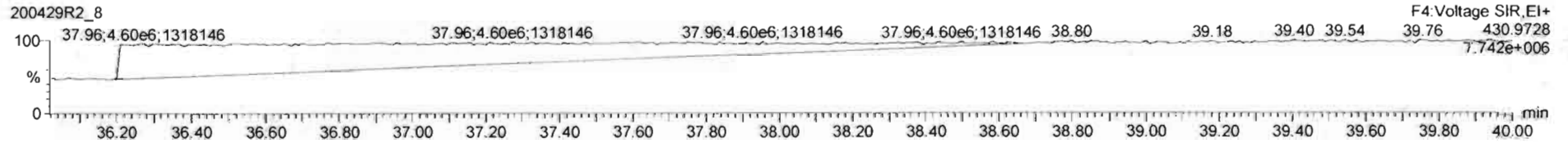
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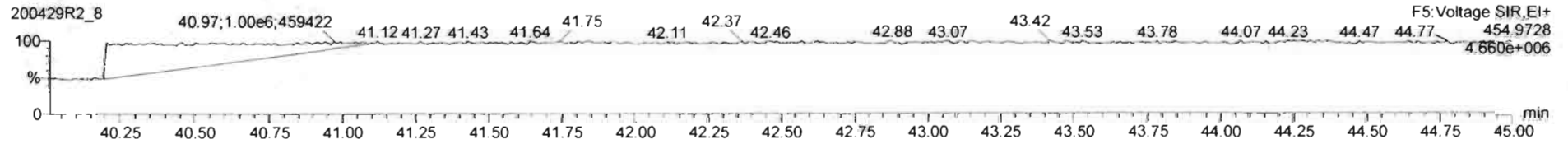
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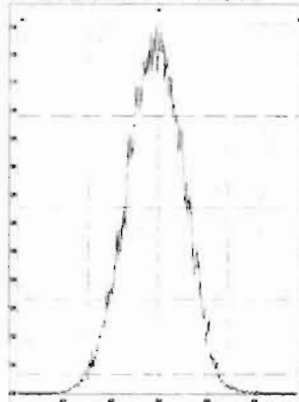
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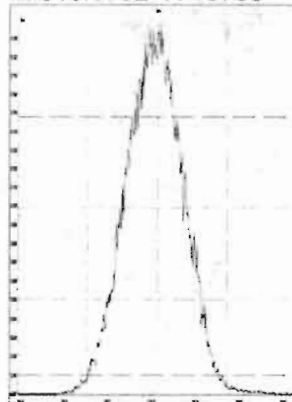
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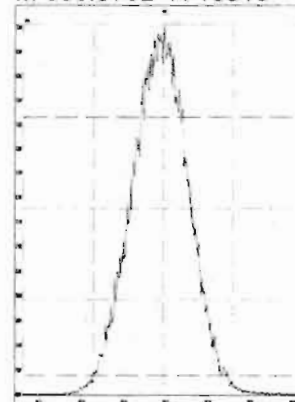
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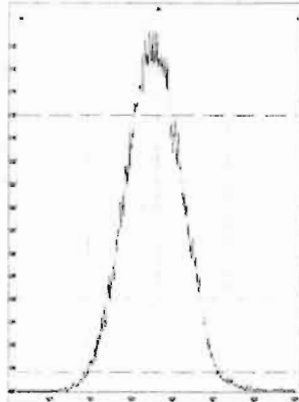
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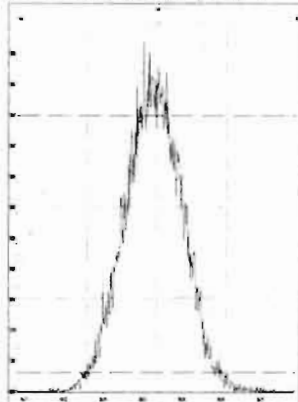
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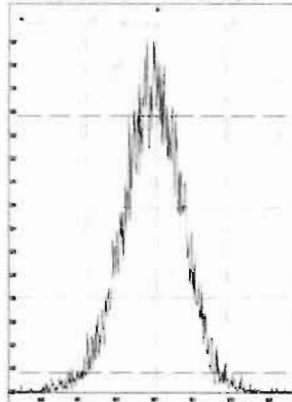
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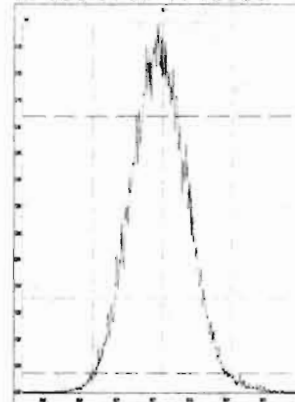
M 354.9792 R 11061



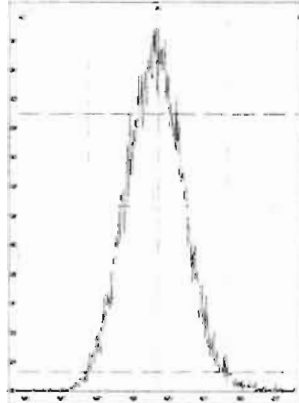
M 366.9792 R 10966



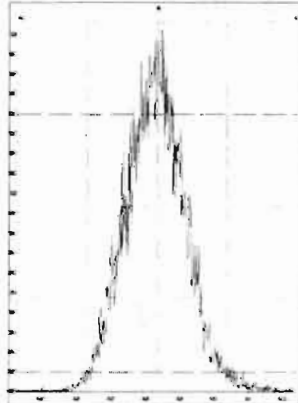
M 380.9760 R 10869



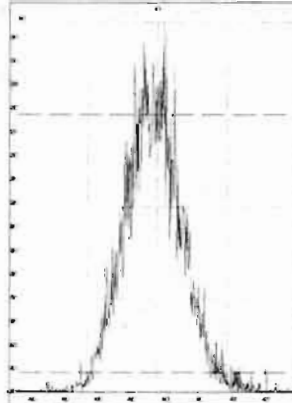
M 392.9760 R 10202



M 404.9760 R 10370



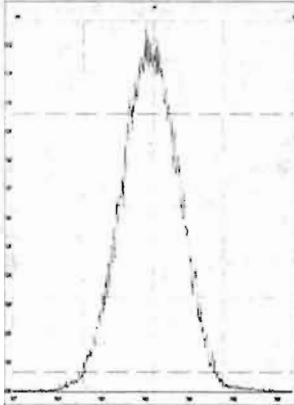
M 416.9760 R 11012



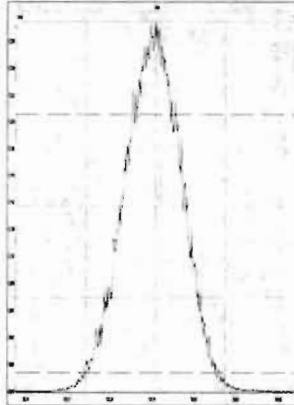
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:17:40 Pacific Daylight Time

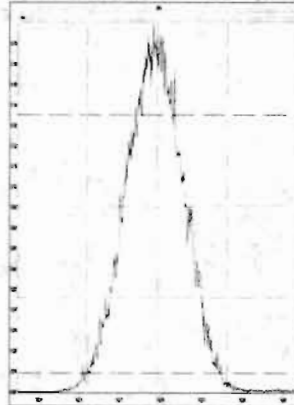
M 318.9792 R 10731



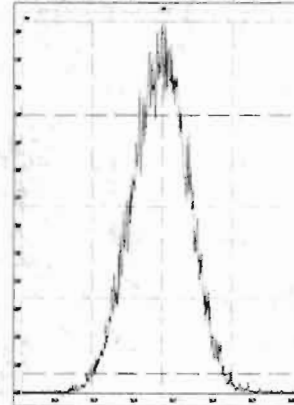
M 330.9792 R 10547



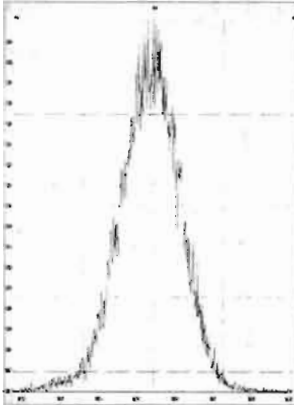
M 342.9792 R 10640



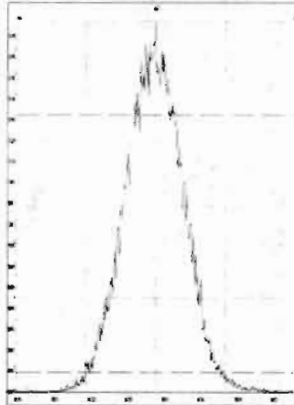
M 354.9792 R 10822



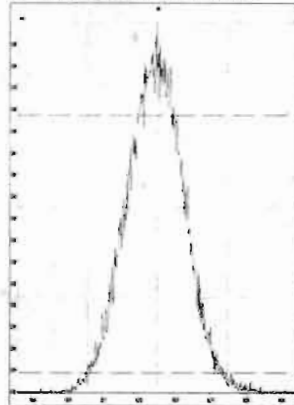
M 366.9792 R 10681



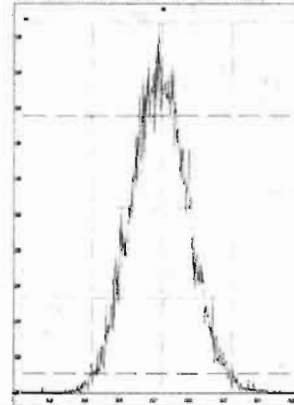
M 380.9760 R 10374



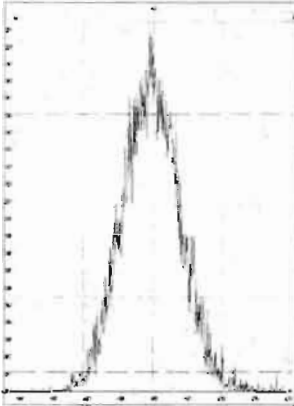
M 392.9760 R 10329



M 404.9760 R 10730



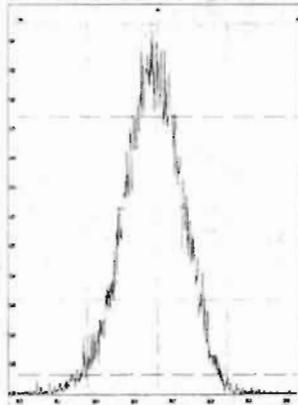
M 416.9760 R 12018



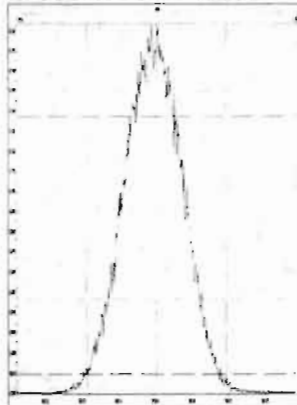
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:17:57 Pacific Daylight Time

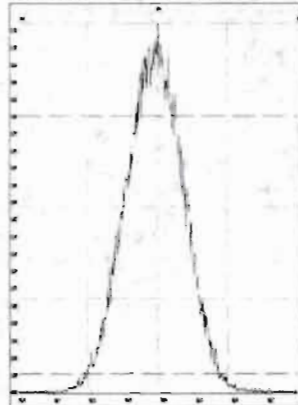
M 366.9792 R 10079



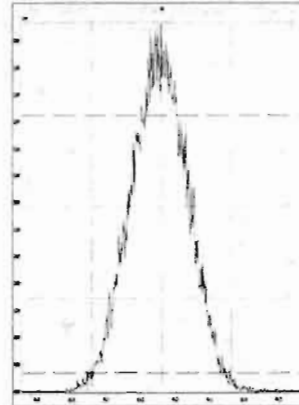
M 380.9760 R 10590



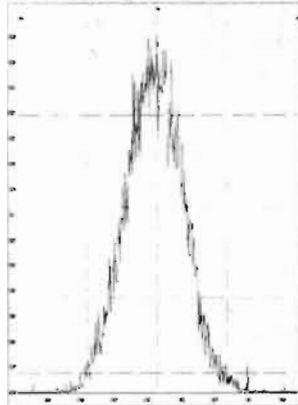
M 392.9760 R 10592



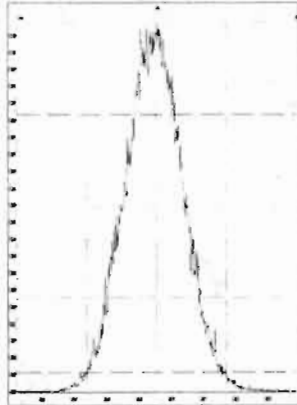
M 404.9760 R 11010



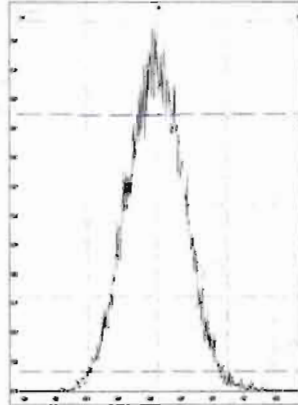
M 416.9760 R 10964



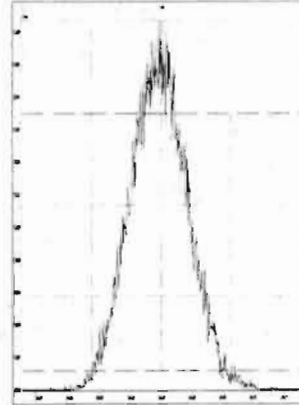
M 430.9728 R 10415



M 442.9728 R 10730



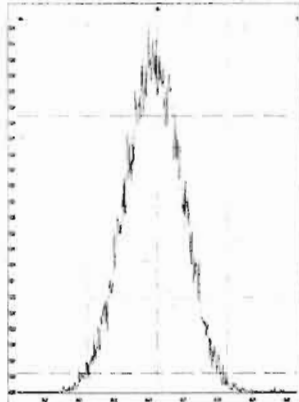
M 454.9728 R 11260



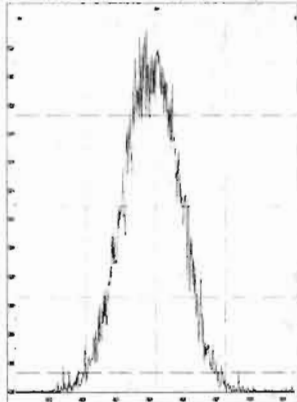
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:12 Pacific Daylight Time

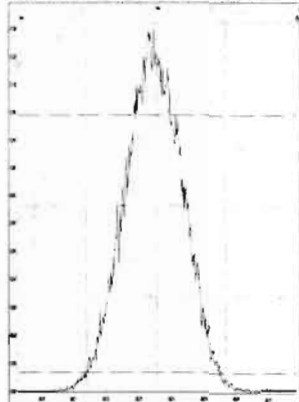
M 404.9760 R 10682



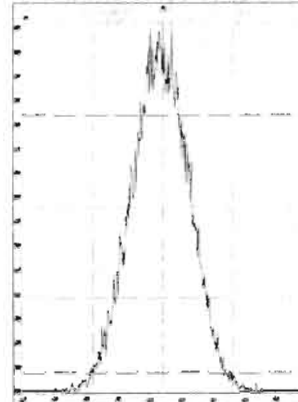
M 416.9760 R 10776



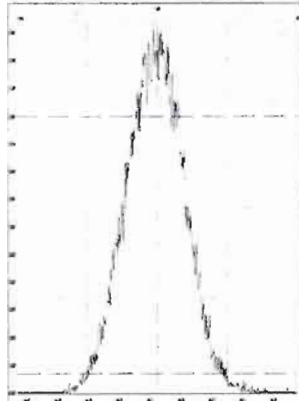
M 430.9728 R 10503



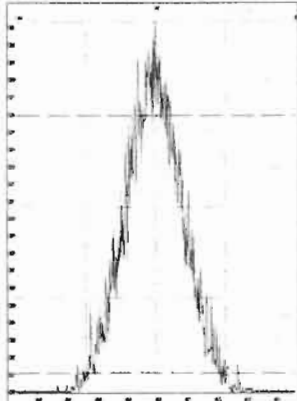
M 442.9728 R 10505



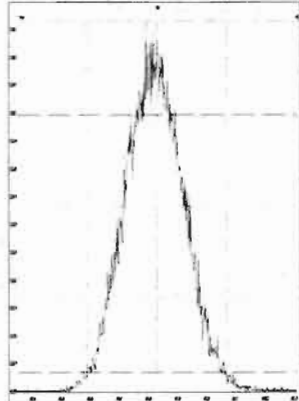
M 454.9728 R 10460



M 466.9728 R 10591



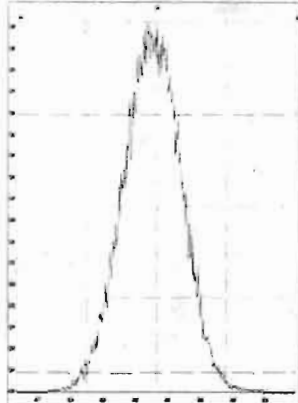
M 480.9696 R 10040



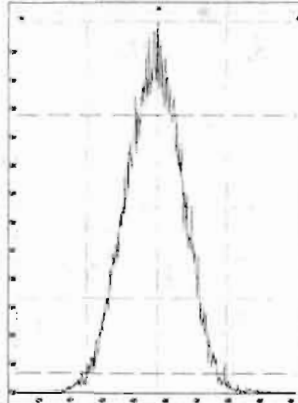
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:29 Pacific Daylight Time

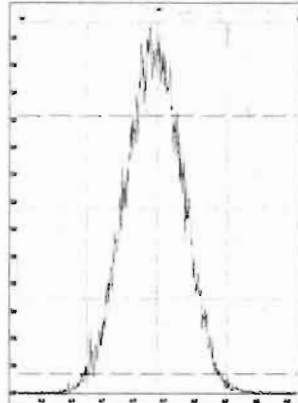
M 430.9728 R 10684



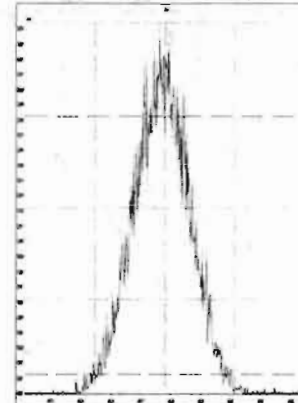
M 442.9728 R 10637



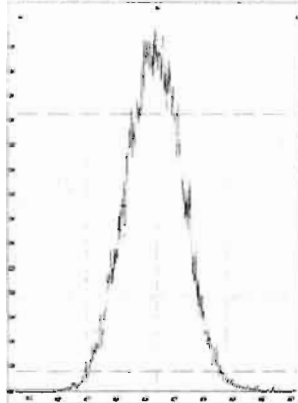
M 454.9728 R 11259



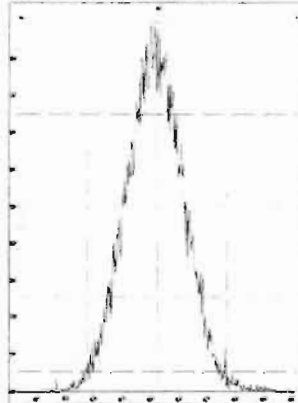
M 466.9728 R 11261



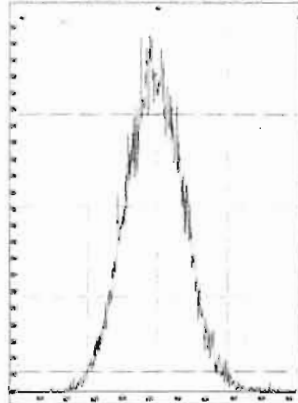
M 480.9696 R 10728



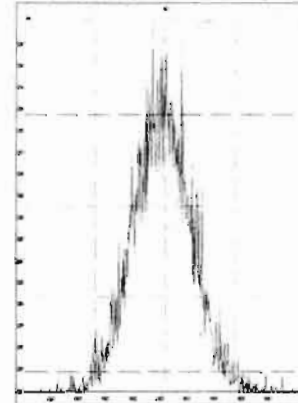
M 492.9696 R 10867



M 504.9696 R 10869



M 516.9697 R 11738



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 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

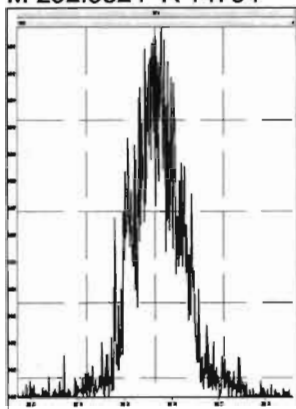
Last Altered: Wednesday, February 12, 2020 10:45:15 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Callbration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

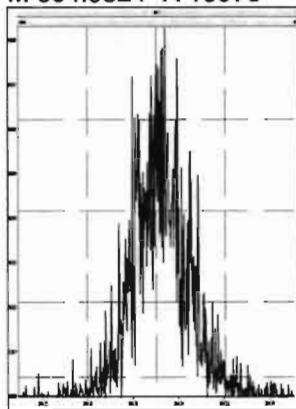
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200211D2_1	SOLVENT BLANK	11-Feb-20	19:58:43
2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
16	200211D2_16	1903740-05RE1 PDI-097SC-B-00-02-191017 ...	12-Feb-20	03:52:45

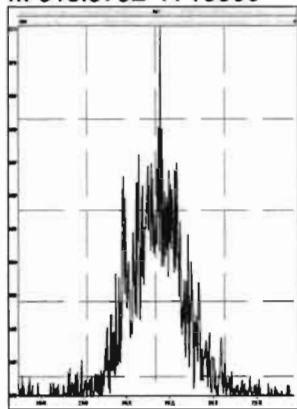
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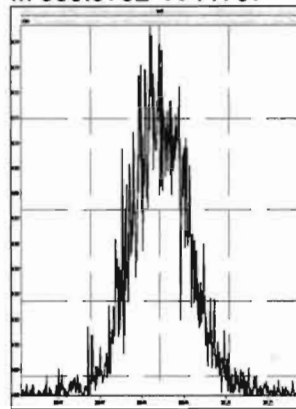
M 304.9824 R 15978



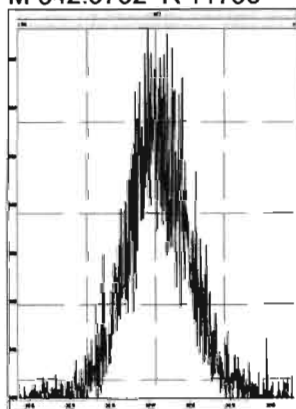
M 318.9792 R 15503



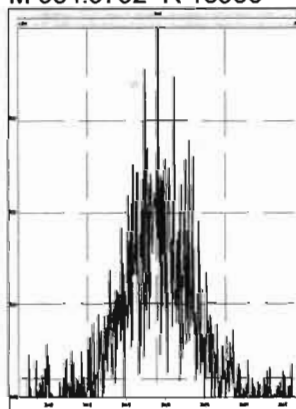
M 330.9792 R 11737



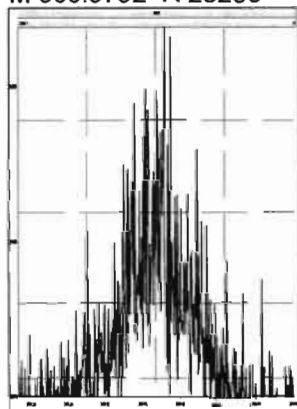
M 342.9792 R 11796



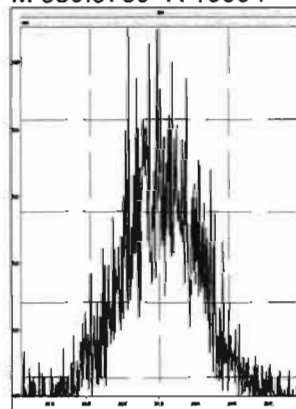
M 354.9792 R 15966

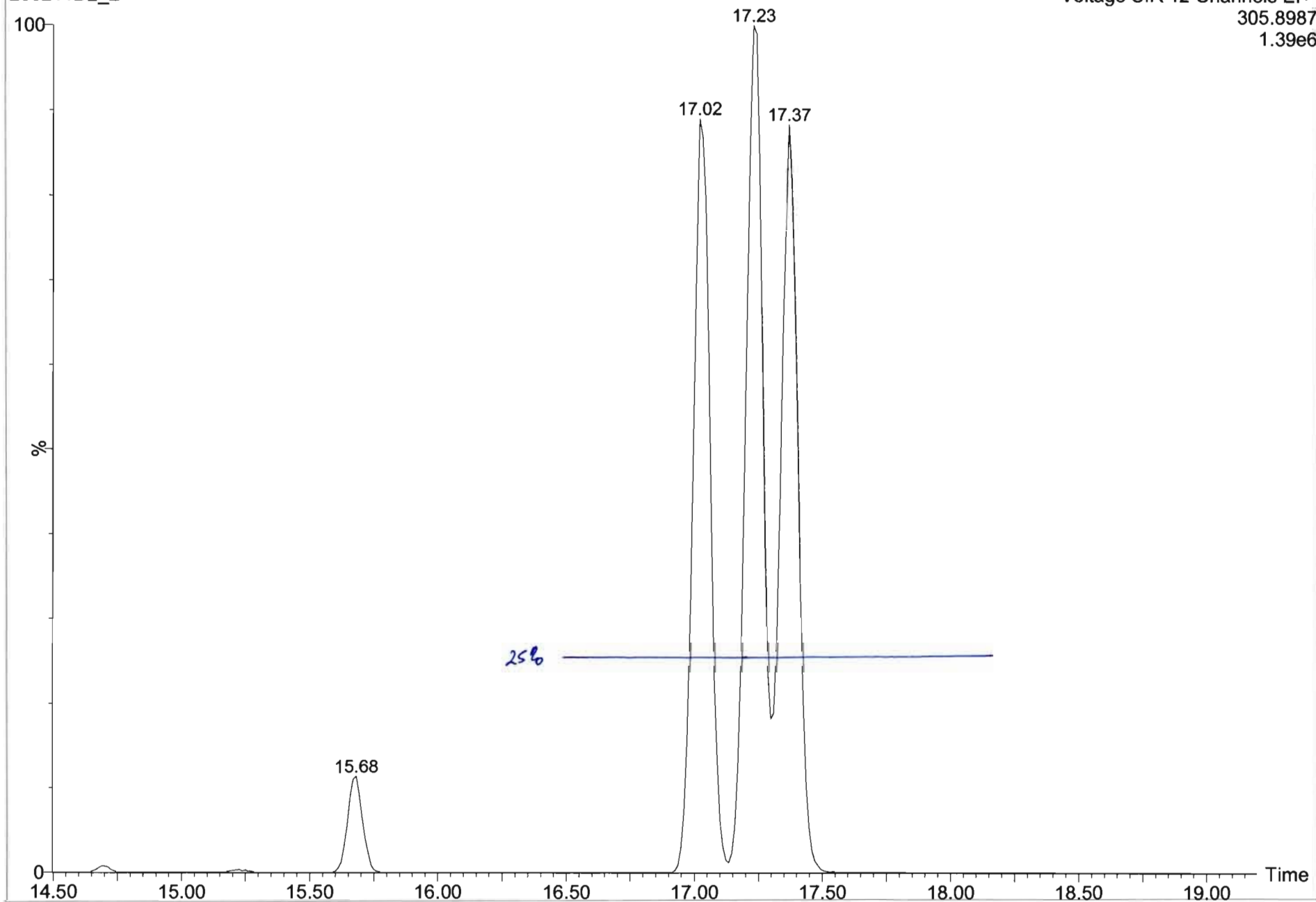


M 366.9792 R 28256



M 380.9760 R 13094





Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

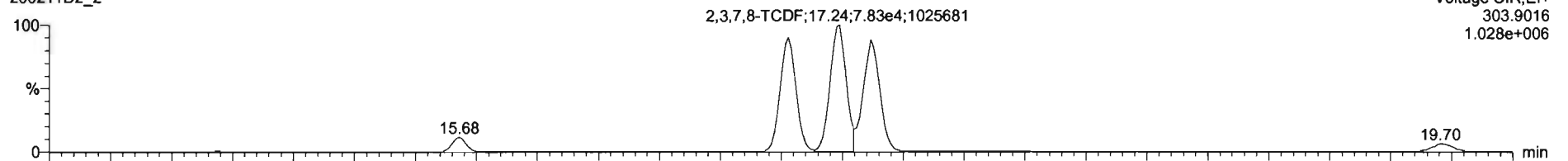
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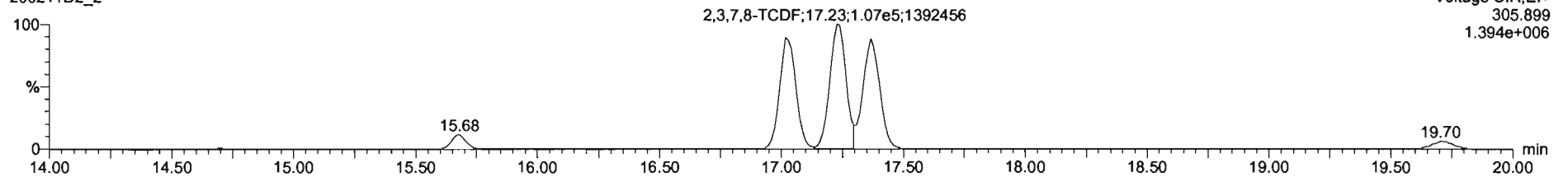
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2,3,7,8-TCDF

200211D2_2

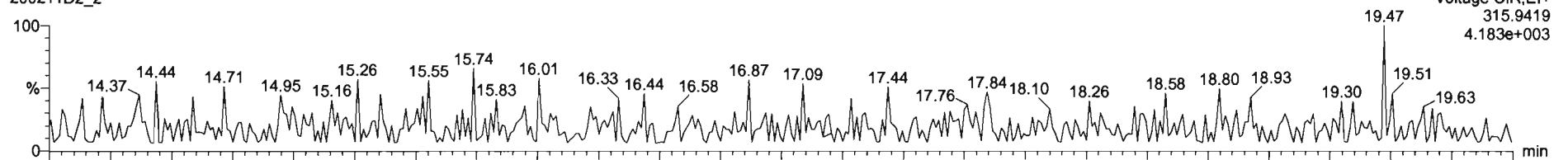


200211D2_2

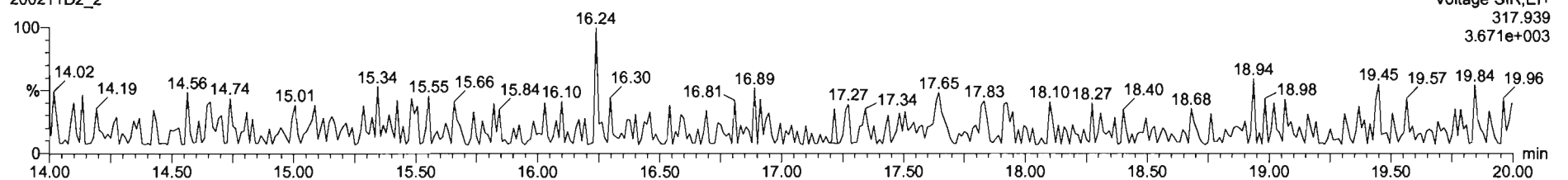


13C-2,3,7,8-TCDF

200211D2_2



200211D2_2

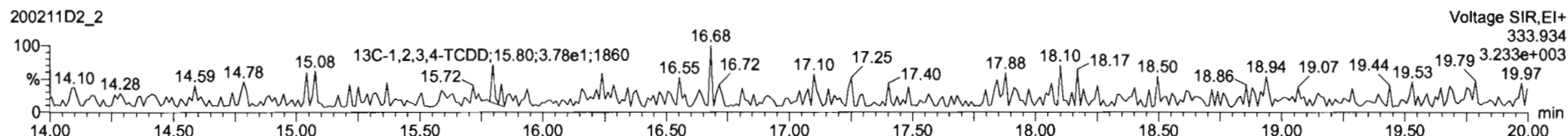
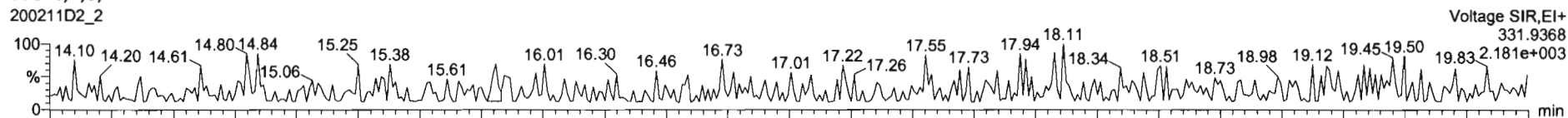


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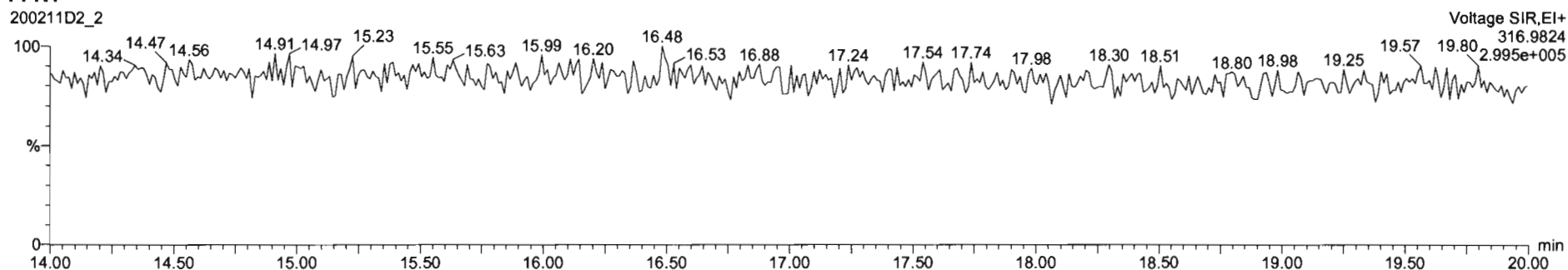
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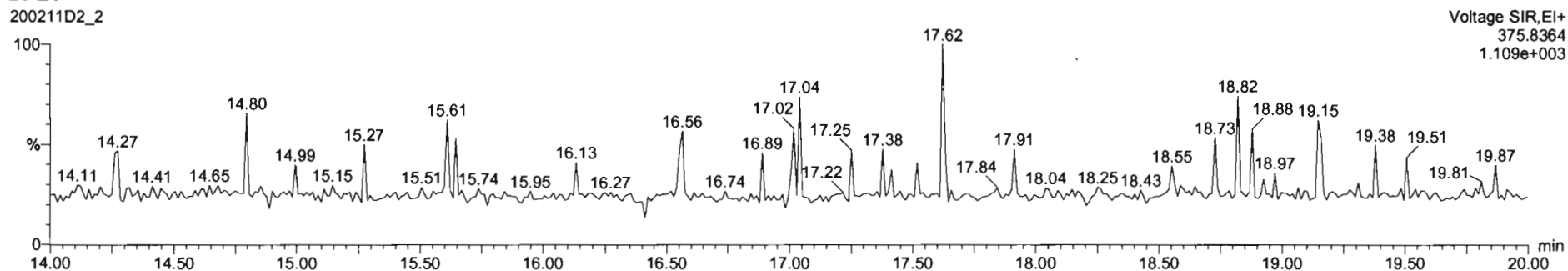
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

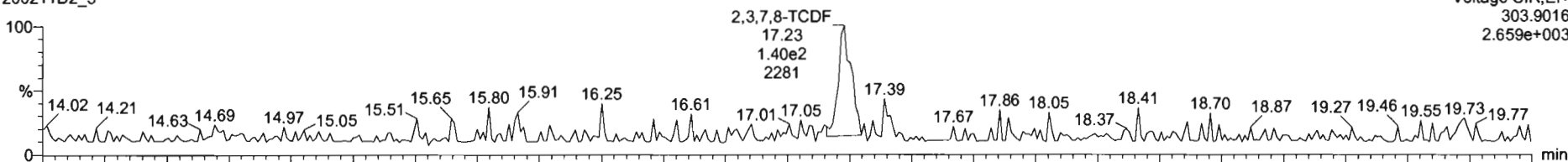
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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvfg7-2-11-20.cdb 12 Feb 2020 10:17:56

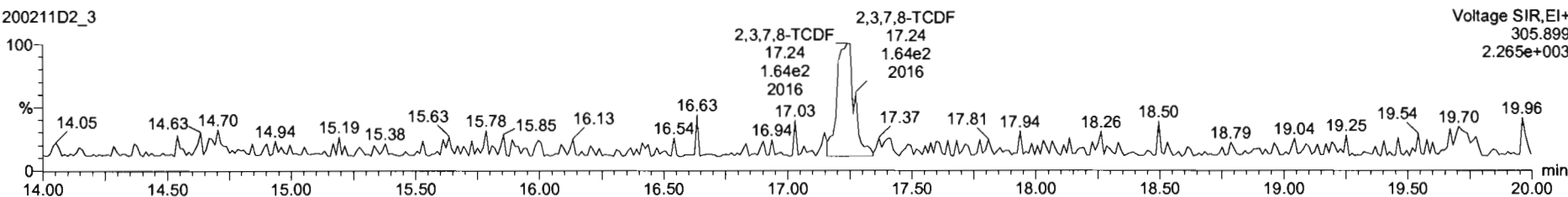
Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200211D2_3

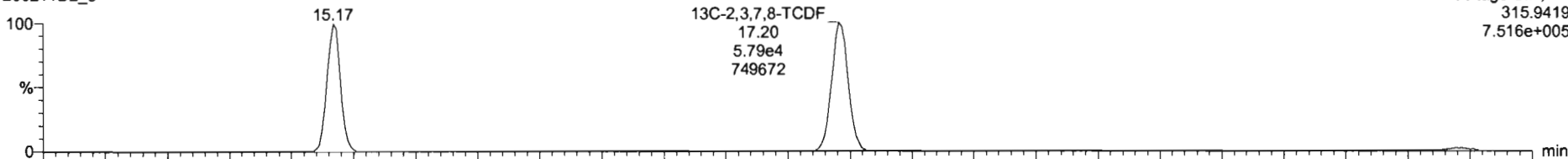


200211D2_3

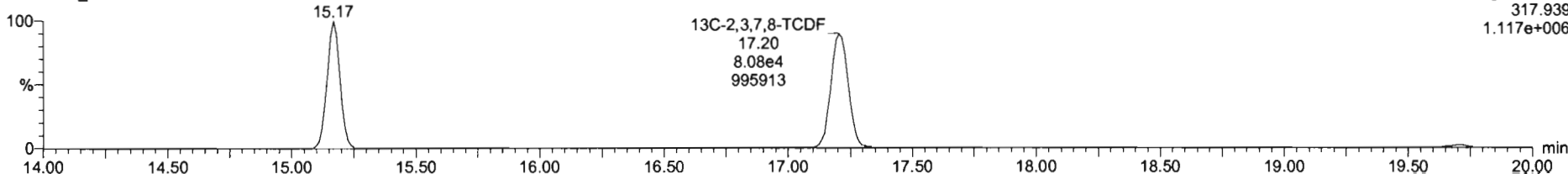


13C-2,3,7,8-TCDF

200211D2_3



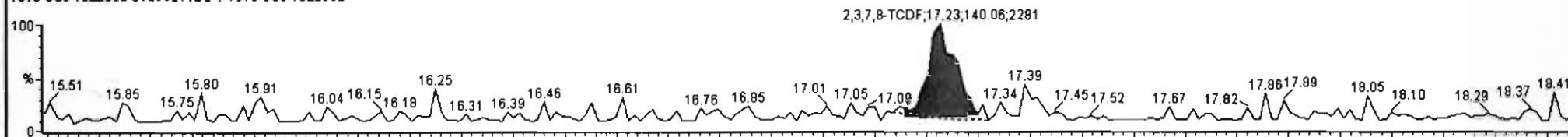
200211D2_3



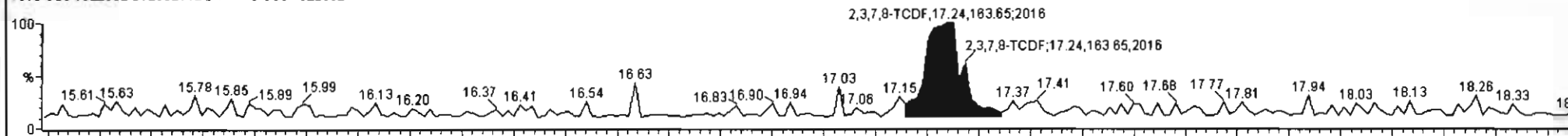
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

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

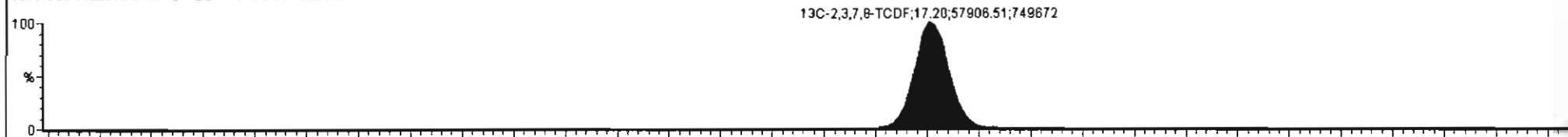
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



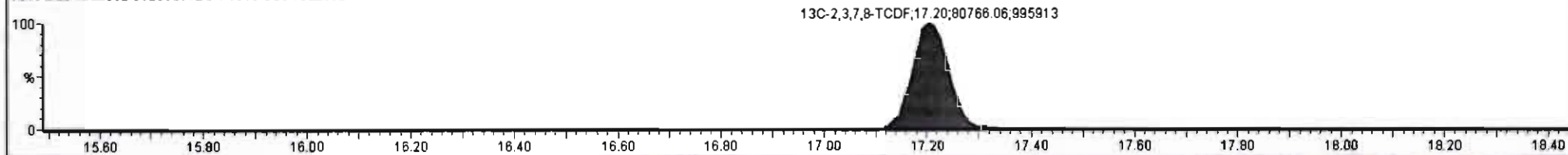
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



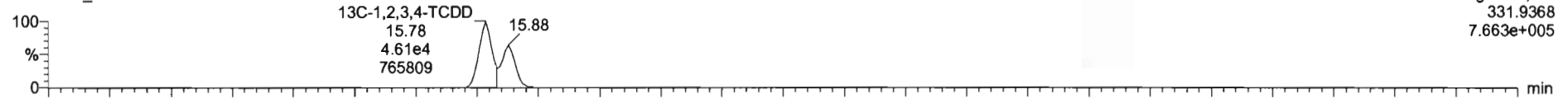
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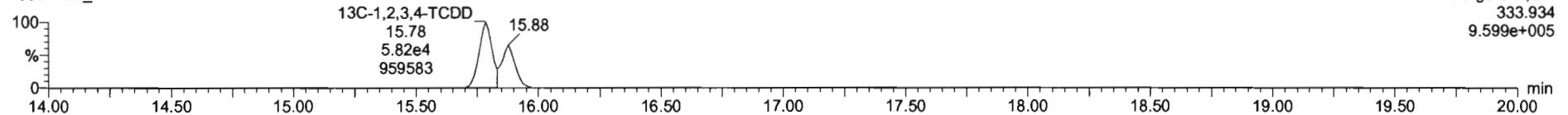
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13C-1,2,3,4-TCDD

200211D2_3

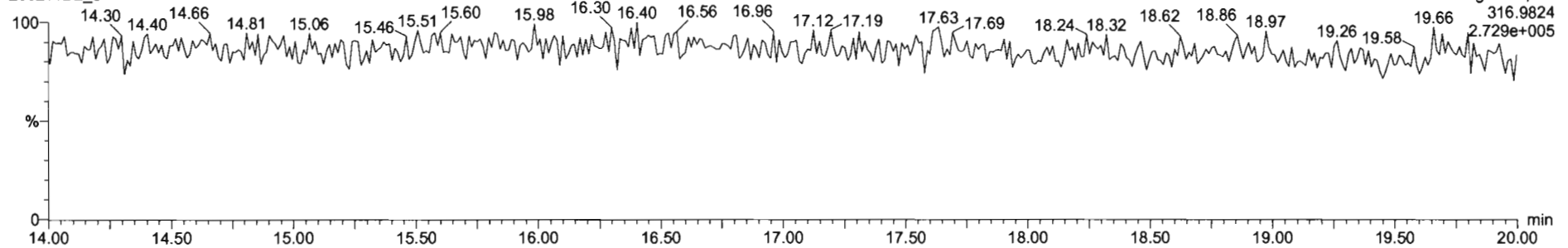


200211D2_3



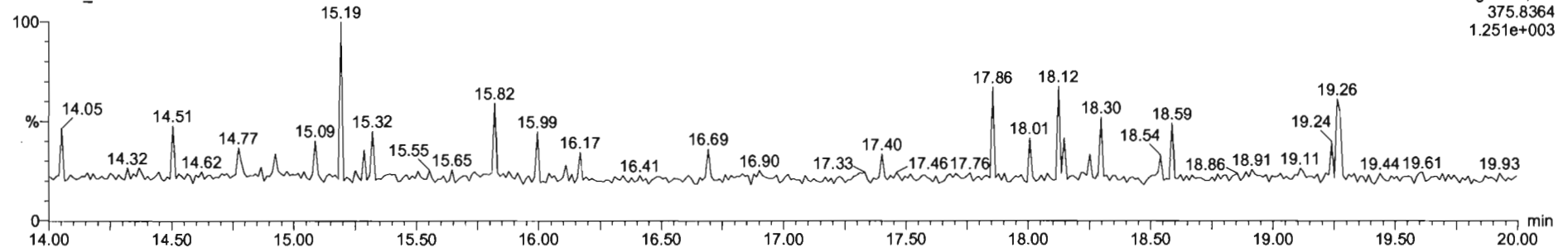
PFK1

200211D2_3



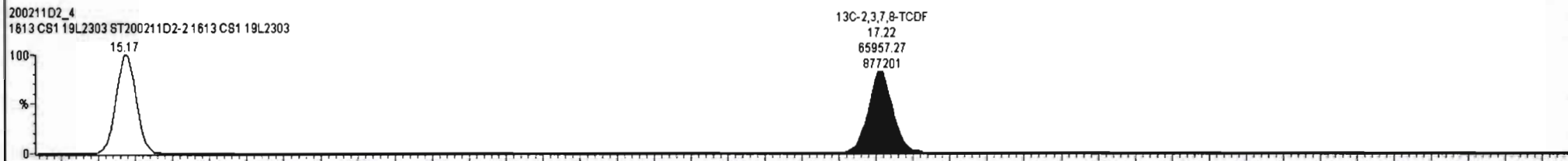
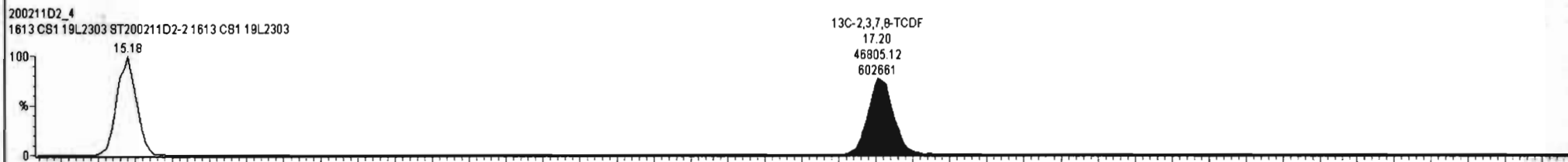
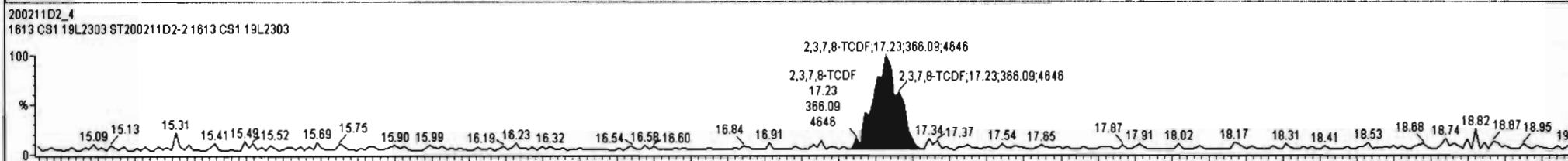
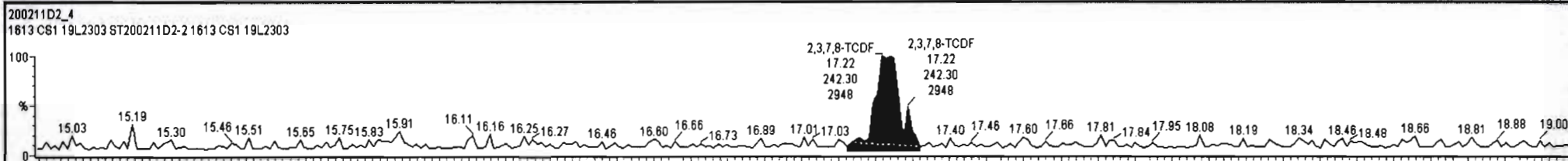
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.09e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.549
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



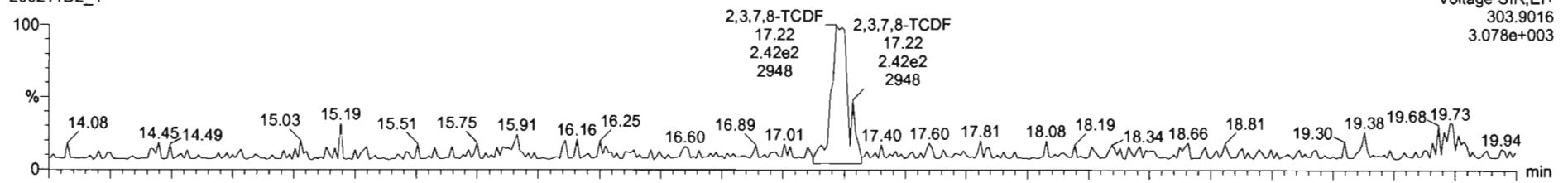
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

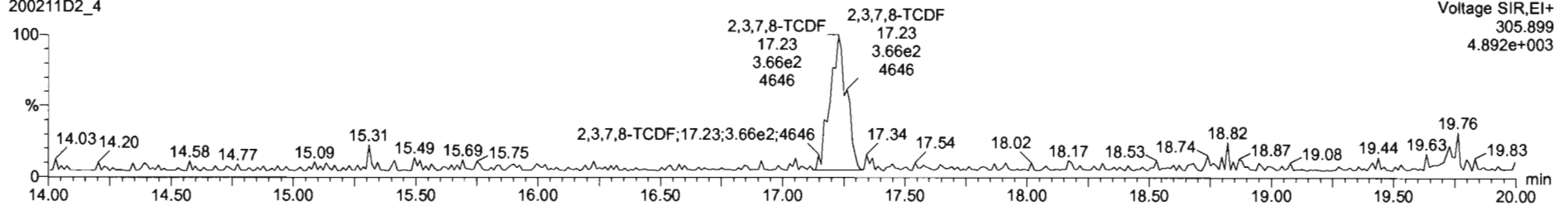
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2,3,7,8-TCDF

200211D2_4

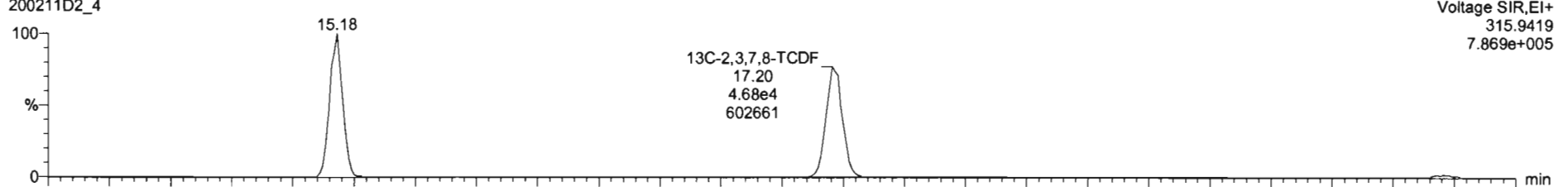


200211D2_4

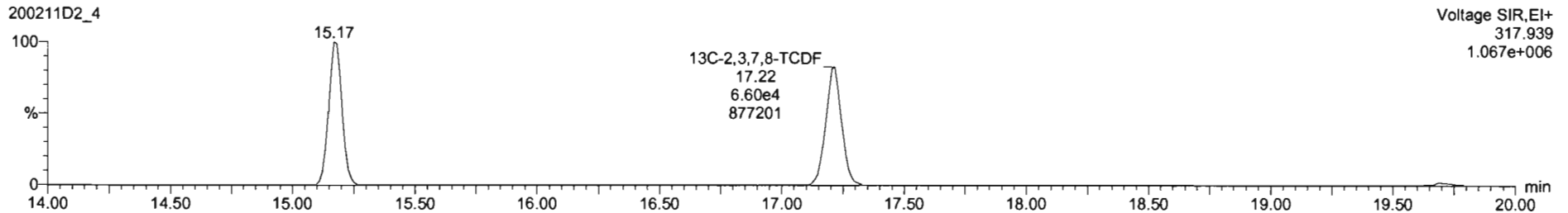


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



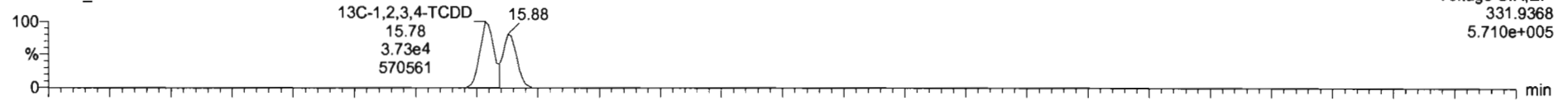
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

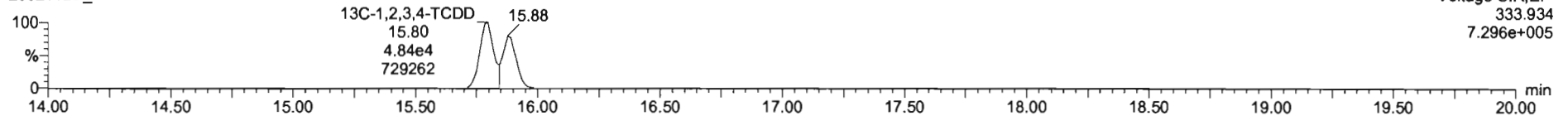
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13C-1,2,3,4-TCDD

200211D2_4

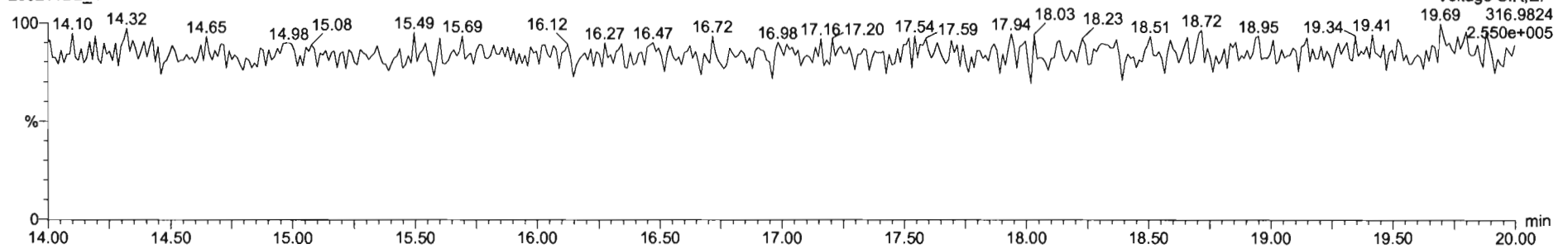


200211D2_4



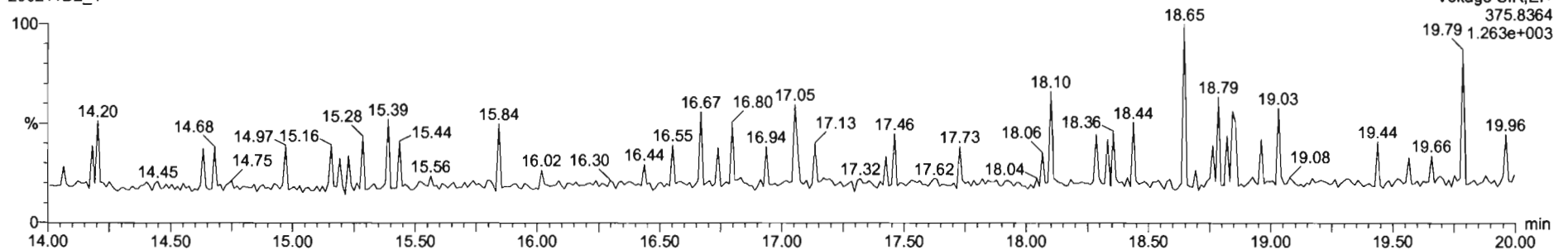
PFK1

200211D2_4



DPE1

200211D2_4



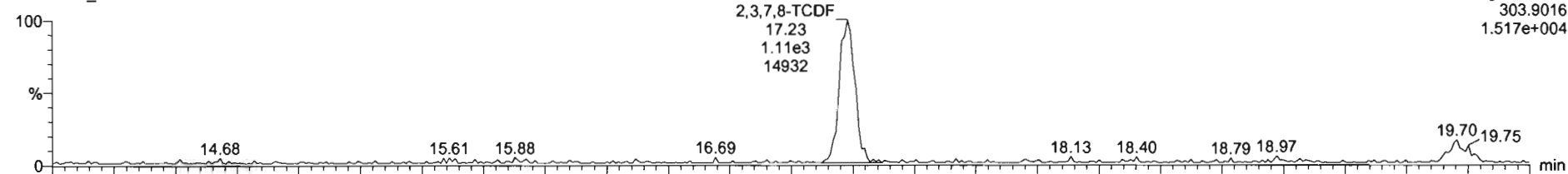
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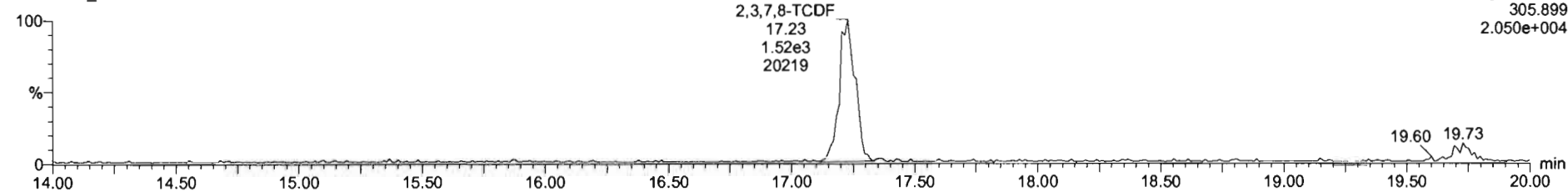
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2,3,7,8-TCDF

200211D2_5

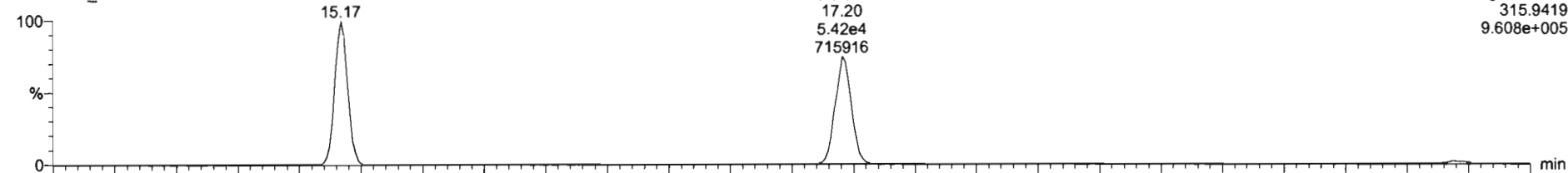


200211D2_5

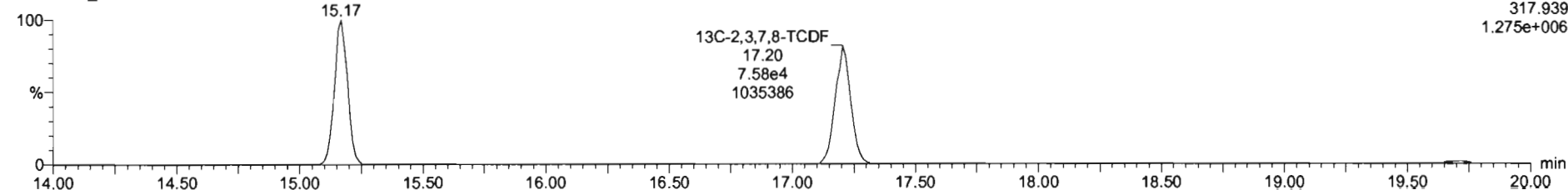


13C-2,3,7,8-TCDF

200211D2_5



200211D2_5



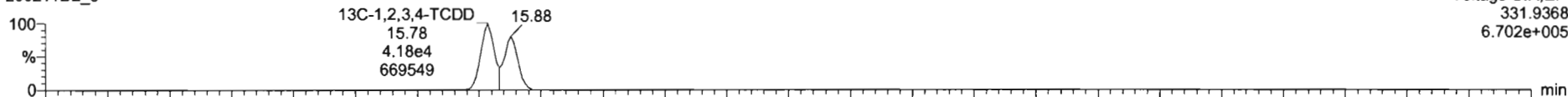
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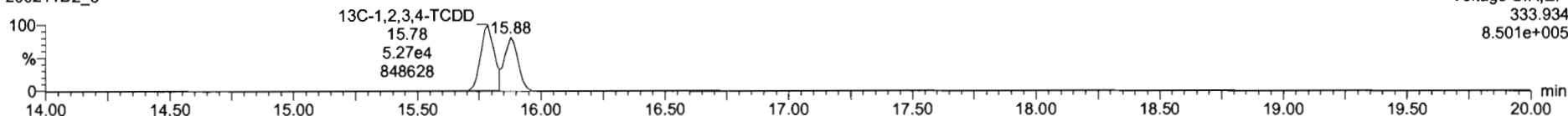
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13C-1,2,3,4-TCDD

200211D2_5

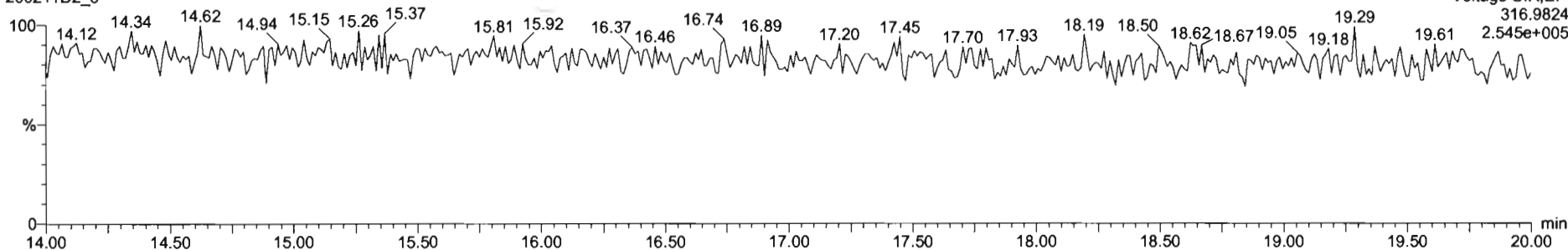


200211D2_5



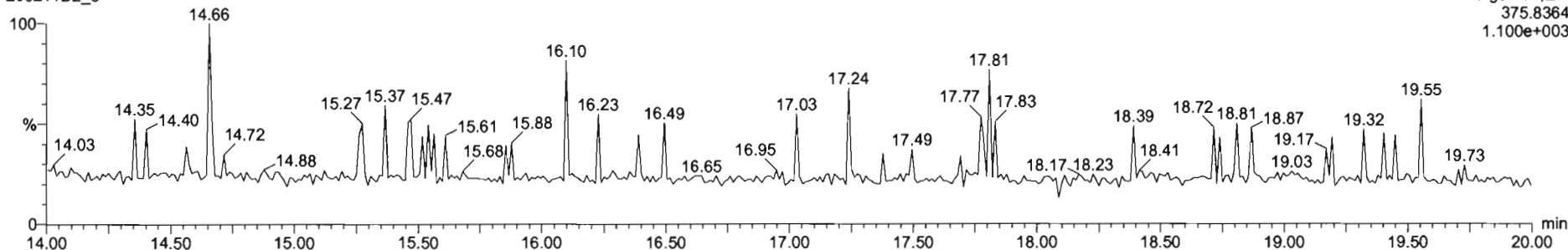
PFK1

200211D2_5



DPE1

200211D2_5



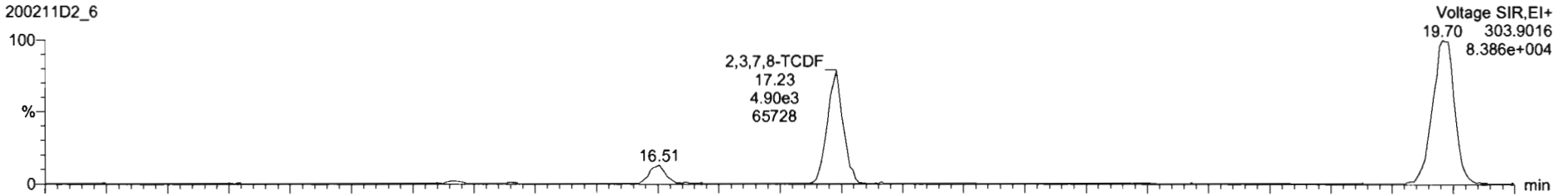
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

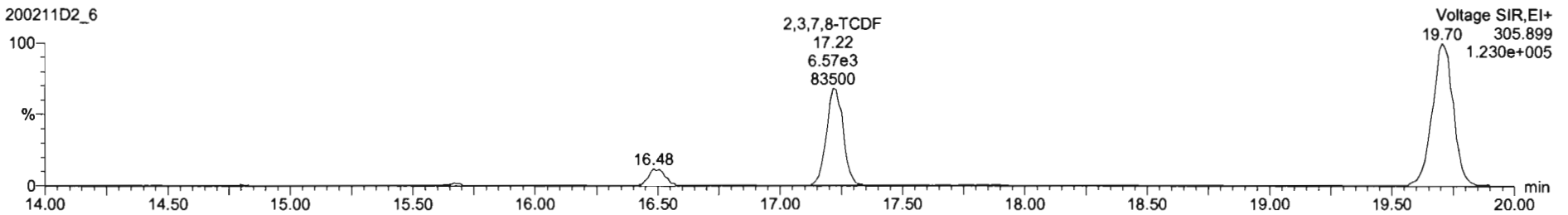
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200211D2_6

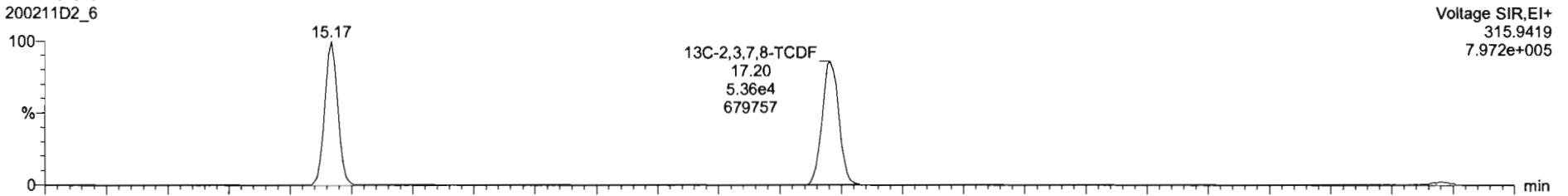


200211D2_6

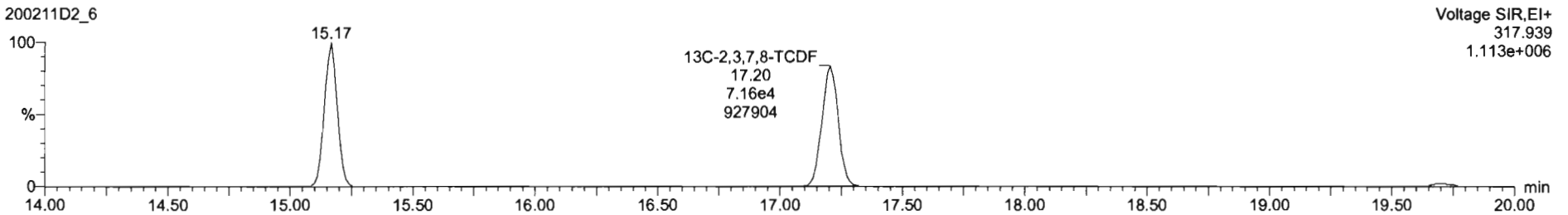


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



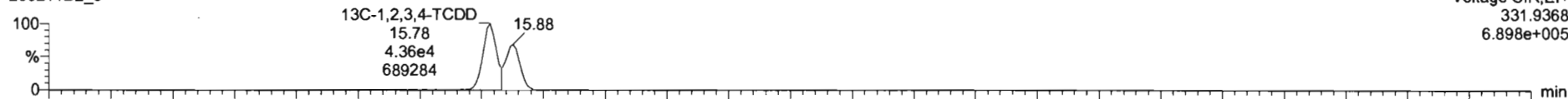
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

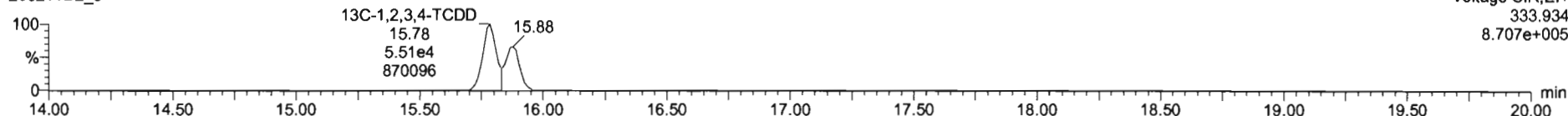
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13C-1,2,3,4-TCDD

200211D2_6

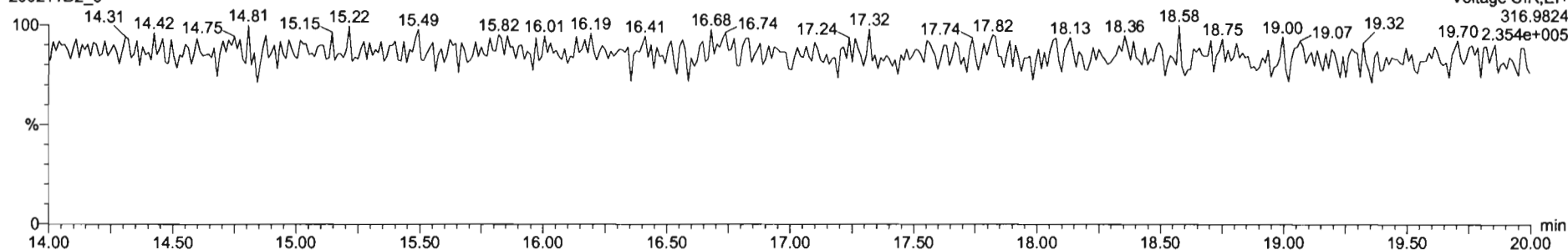


200211D2_6



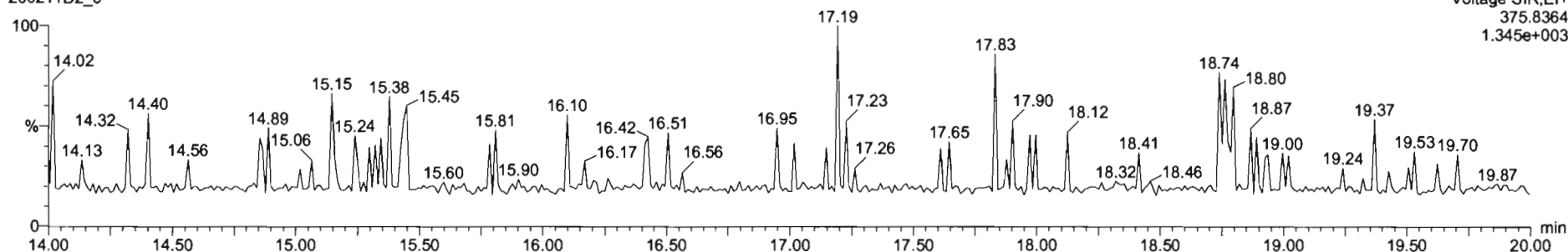
PFK1

200211D2_6



DPE1

200211D2_6



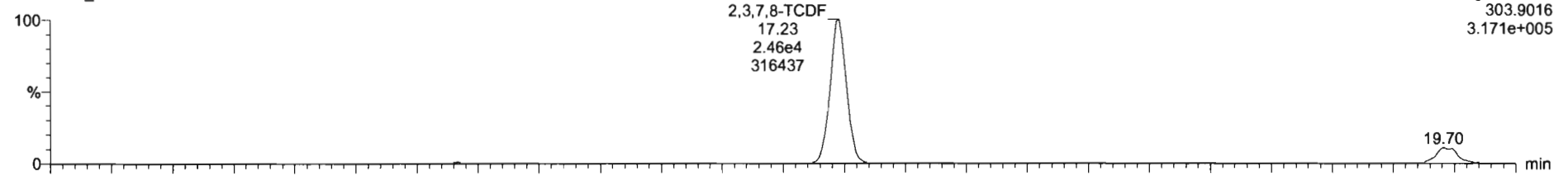
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

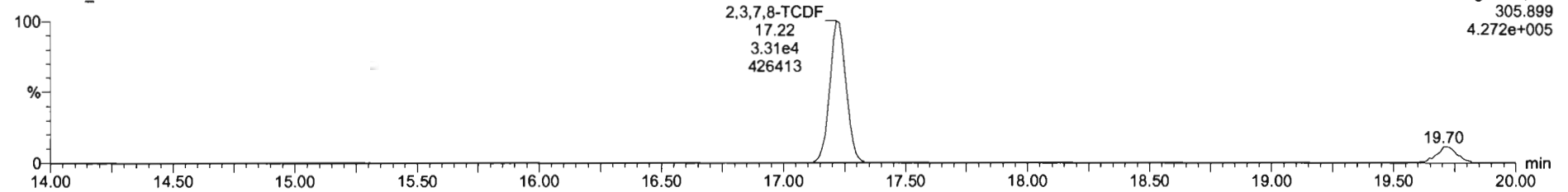
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2,3,7,8-TCDF

200211D2_7

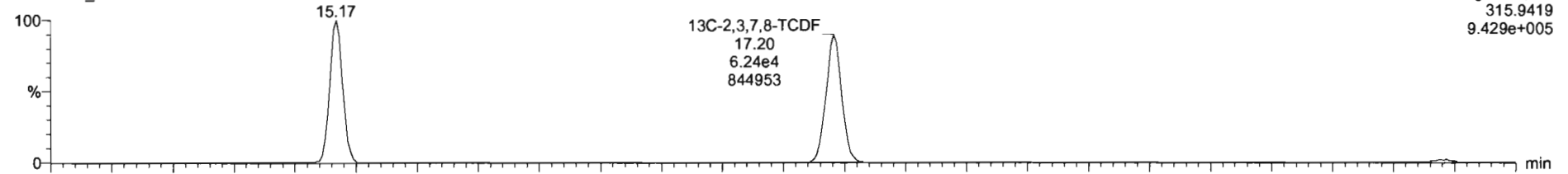


200211D2_7

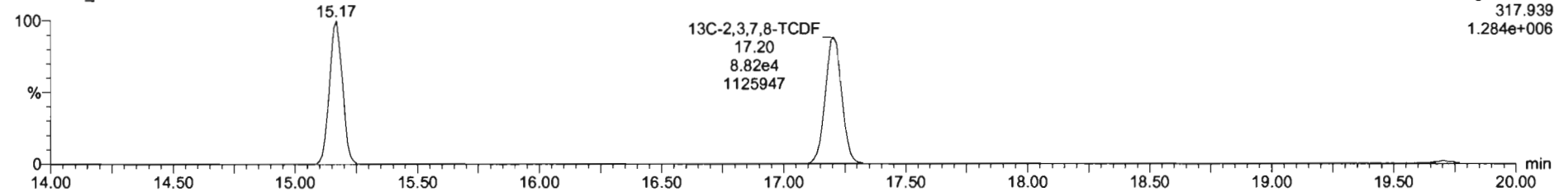


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



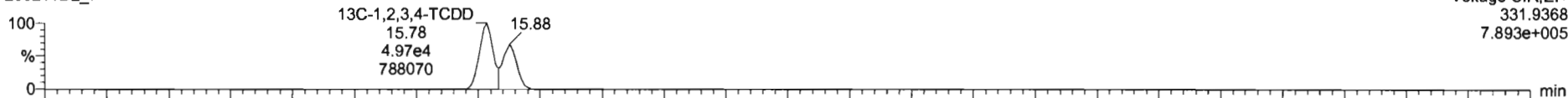
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

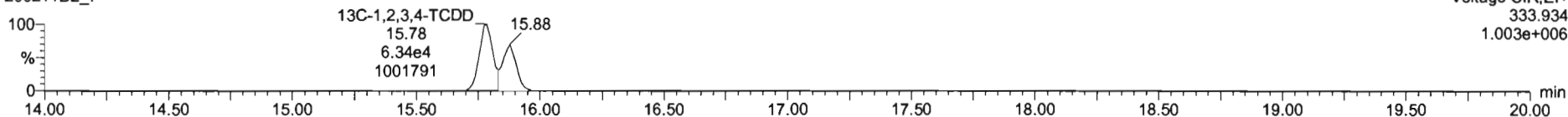
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13C-1,2,3,4-TCDD

200211D2_7

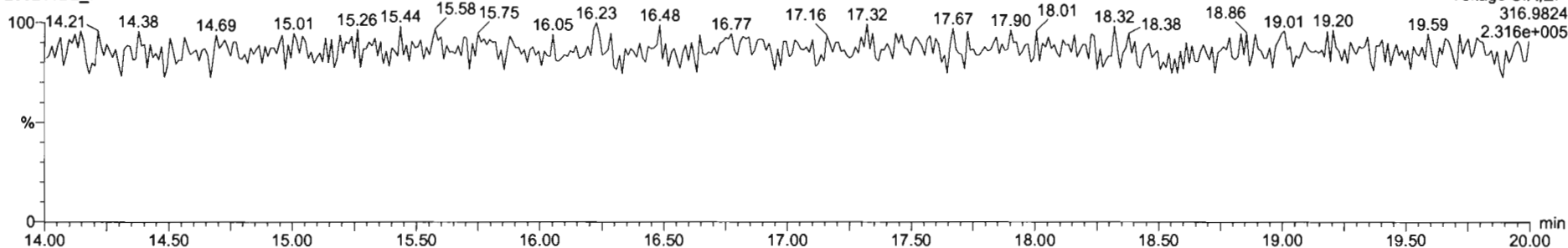


200211D2_7



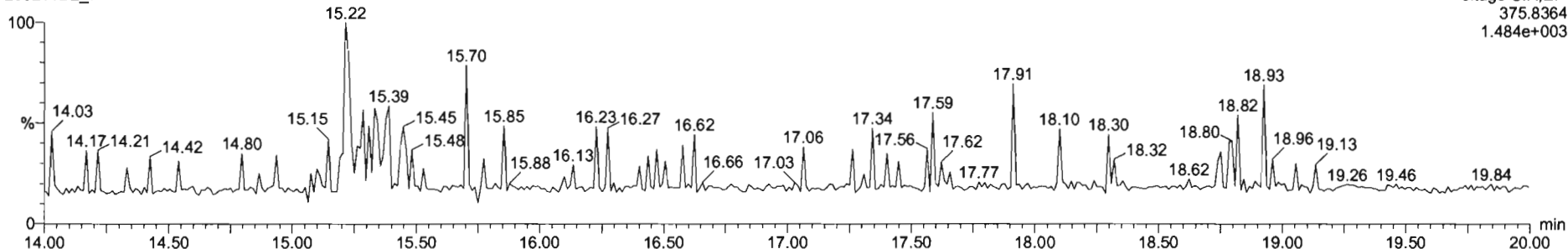
PFK1

200211D2_7



DPE1

200211D2_7



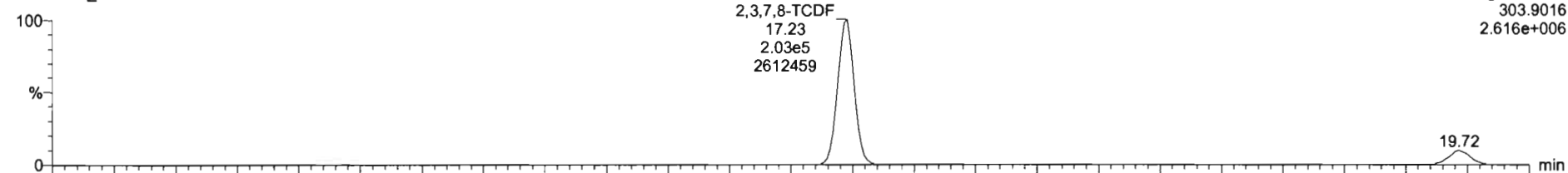
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

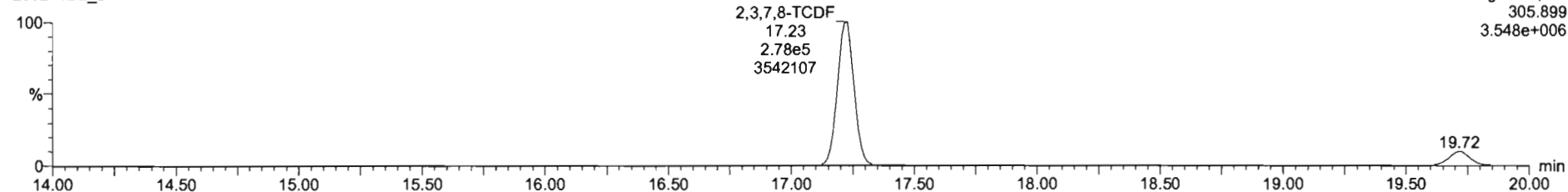
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

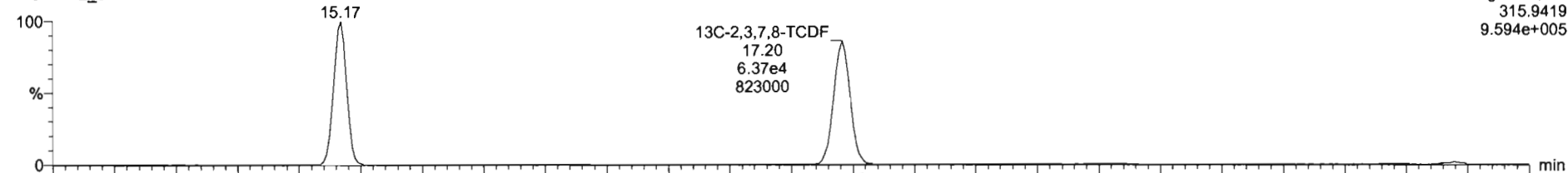
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

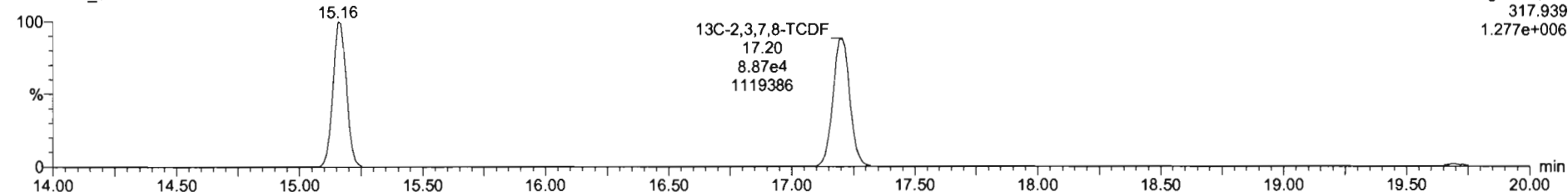
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

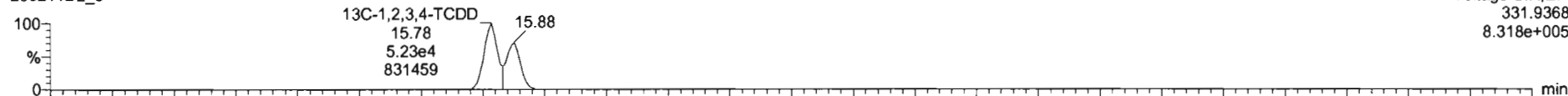
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
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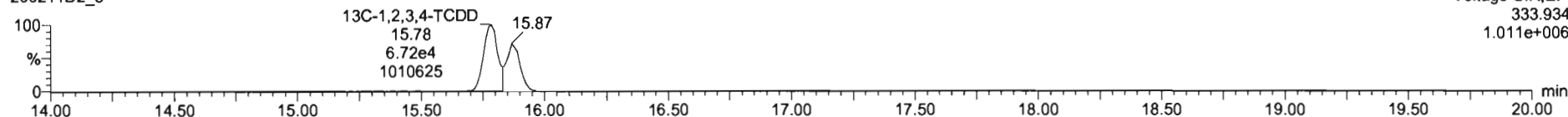
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13C-1,2,3,4-TCDD

200211D2_8

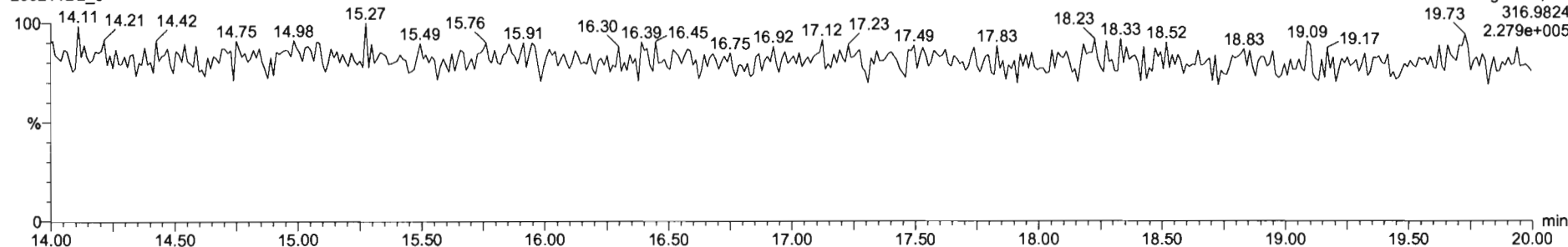


200211D2_8



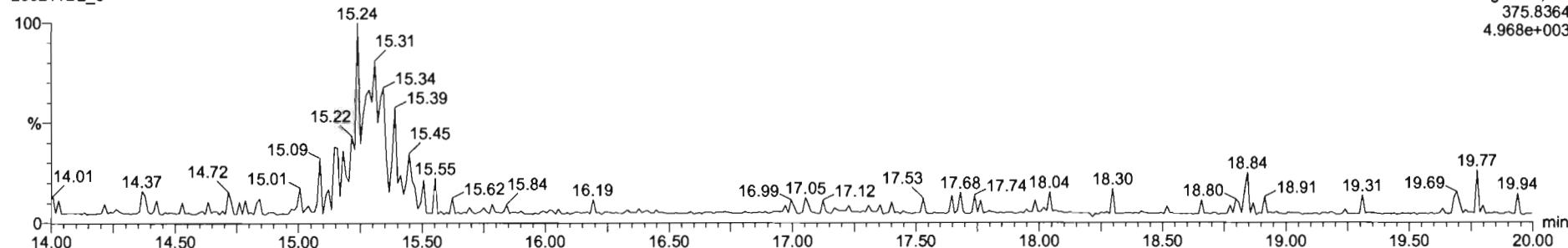
PFK1

200211D2_8

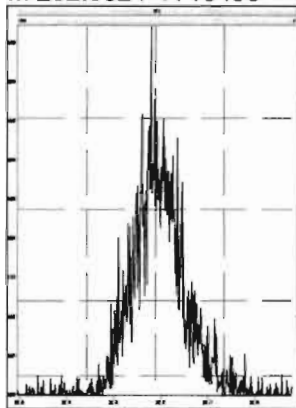


DPE1

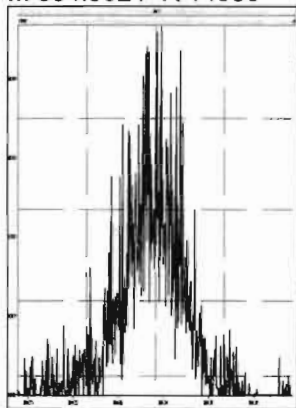
200211D2_8



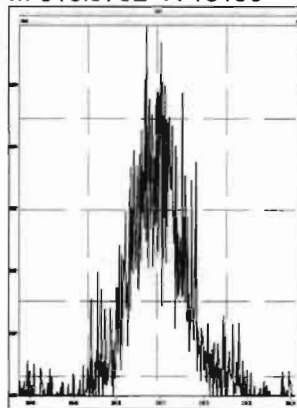
M 292.9824 R 13493



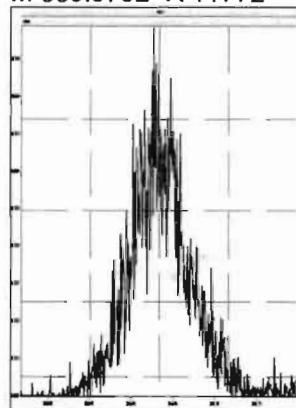
M 304.9824 R 14983



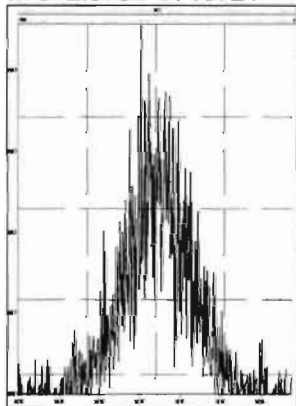
M 318.9792 R 15196



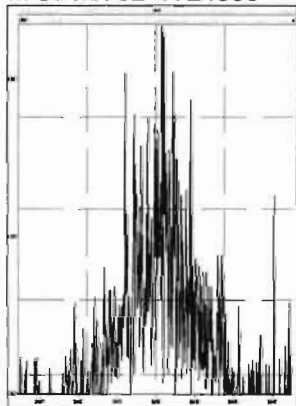
M 330.9792 R 11772



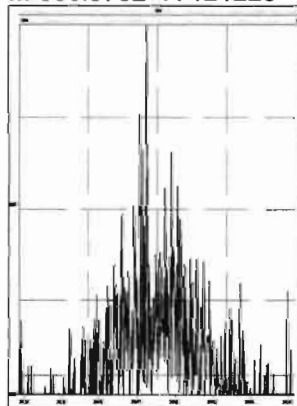
M 342.9792 R 13721



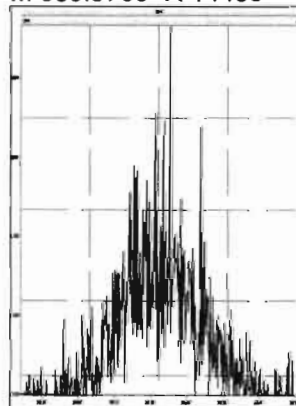
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

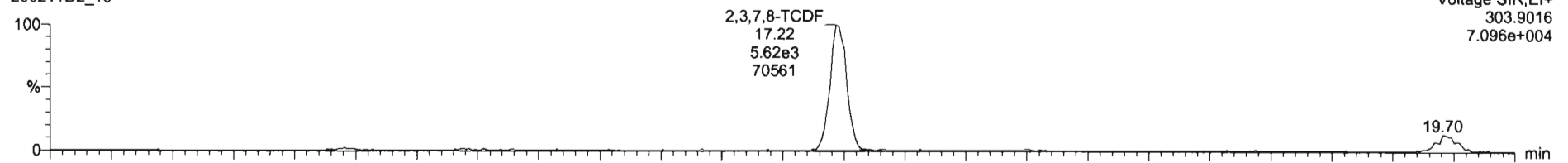
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

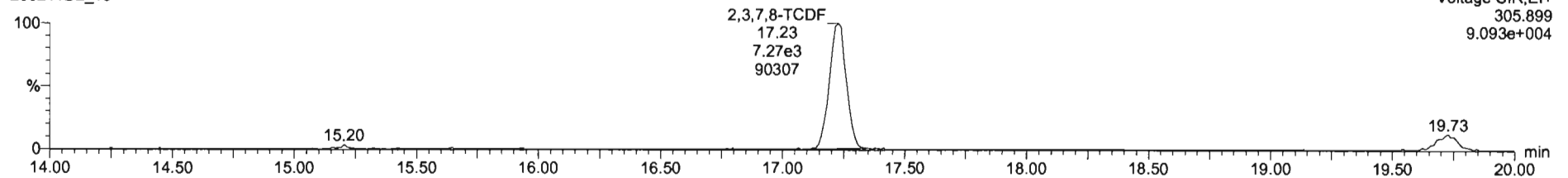
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

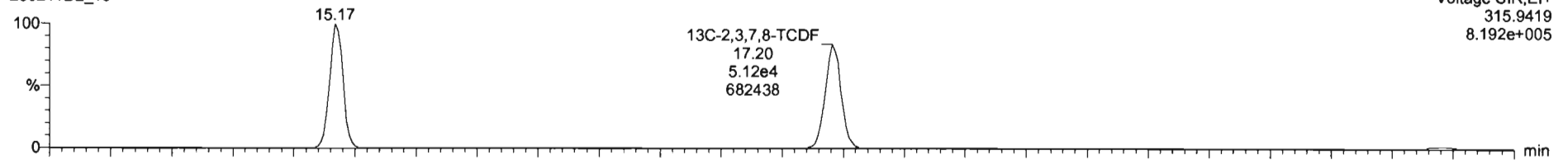


200211D2_10

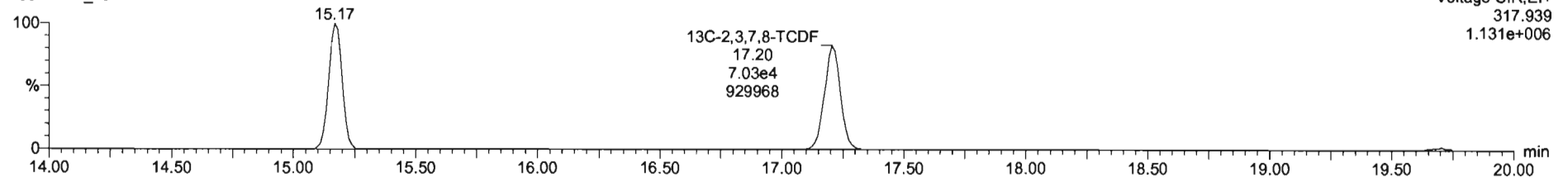


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



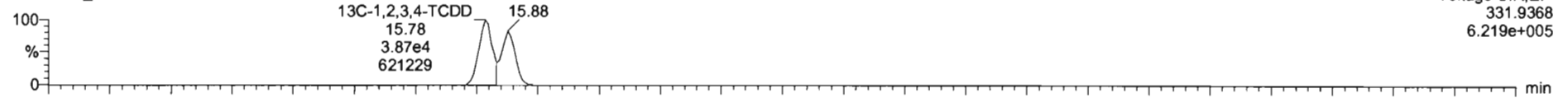
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
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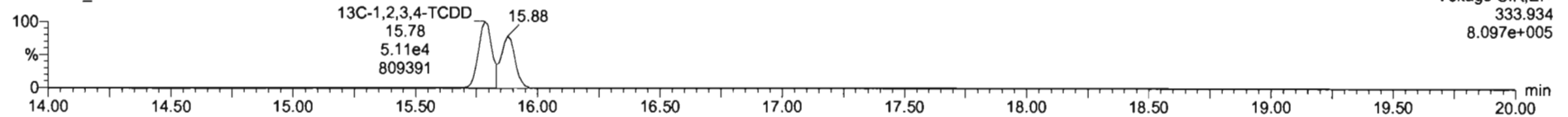
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

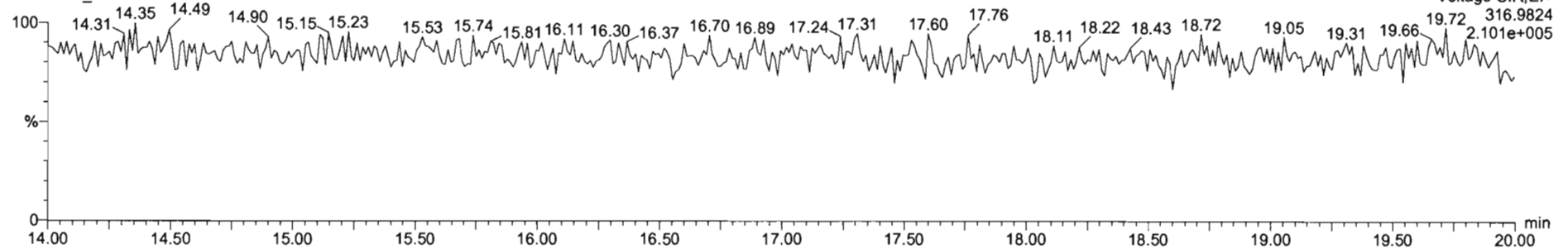


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

