

December 27, 2019

Vista Work Order No. 1903648

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 October 15, 2019 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. 1903648

Case Narrative

Sample Condition on Receipt:

Seven 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.

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

These 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-073SC-A-11-12-191013". The Duplicate RPD was out of the acceptance criteria for OCDD.

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
1903648-01	PDI-073SC-A-11-12-191013	DUP13-Oct-19 10:41	15-Oct-19 08:51	Amber Glass, 120 mL Amber Glass, 120 mL
1903648-02	PDI-073SC-A-12-12.6-191013	13-Oct-19 10:41	15-Oct-19 08:51	Amber Glass, 120 mL
1903648-03	PDI-1073SC-A-12-12.6-191013	13-Oct-19 00:00	15-Oct-19 08:51	Amber Glass, 120 mL
1903648-04	PDI-075SC-A-14-15-191013	13-Oct-19 07:32	15-Oct-19 08:51	Amber Glass, 120 mL
1903648-05	PDI-075SC-A-15-16-191013	13-Oct-19 07:32	15-Oct-19 08:51	Amber Glass, 120 mL
1903648-06	PDI-076SC-A-10-11-191013	13-Oct-19 13:08	15-Oct-19 08:51	Amber Glass, 120 mL
1903648-07	PDI-076SC-A-11-11.9-191013	13-Oct-19 13:13	15-Oct-19 08:51	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B9J0322 Date Extracted: 30-Oct-2019 11:02		Lab Sample: B9J0322-BLK1 Date Analyzed: 17-Dec-19 16:16 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.117			IS 13C-2,3,7,8-TCDD	90.4	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0712			13C-1,2,3,7,8-PeCDD	98.5	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0889			13C-1,2,3,4,7,8-HxCDD	78.4	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0866			13C-1,2,3,6,7,8-HxCDD	77.7	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0978			13C-1,2,3,7,8,9-HxCDD	85.4	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.124			13C-1,2,3,4,6,7,8-HpCDD	88.1	23 - 140		
OCDD	ND	0.172			13C-OCDD	70.8	17 - 157		
2,3,7,8-TCDF	ND	0.0613			13C-2,3,7,8-TCDF	91.7	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0447			13C-1,2,3,7,8-PeCDF	88.5	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0454			13C-2,3,4,7,8-PeCDF	91.7	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0298			13C-1,2,3,4,7,8-HxCDF	86.1	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0288			13C-1,2,3,6,7,8-HxCDF	85.9	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0304			13C-2,3,4,6,7,8-HxCDF	91.2	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0440			13C-1,2,3,7,8,9-HxCDF	88.7	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0486			13C-1,2,3,4,6,7,8-HpCDF	89.1	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0605			13C-1,2,3,4,7,8,9-HpCDF	83.5	26 - 138		
OCDF	ND	0.134			13C-OCDF	75.7	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	84.1	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.117							
Total PeCDD	ND	0.0712							
Total HxCDD	ND	0.0978							
Total HpCDD	ND	0.124							
Total TCDF	ND	0.0613							
Total PeCDF	ND	0.0454							
Total HxCDF	ND	0.0440							
Total HpCDF	ND	0.0605							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B9J0322 Date Extracted: 30-Oct-2019 11:02		Lab Sample: B9J0322-BS1 Date Analyzed: 17-Dec-19 14:39 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	20.6	20.0	103	67 - 158	IS 13C-2,3,7,8-TCDD	88.0	20 - 175
1,2,3,7,8-PeCDD	104	100	104	70 - 142	13C-1,2,3,7,8-PeCDD	89.1	21 - 227
1,2,3,4,7,8-HxCDD	109	100	109	70 - 164	13C-1,2,3,4,7,8-HxCDD	76.0	21 - 193
1,2,3,6,7,8-HxCDD	113	100	113	76 - 134	13C-1,2,3,6,7,8-HxCDD	75.1	25 - 163
1,2,3,7,8,9-HxCDD	109	100	109	64 - 162	13C-1,2,3,7,8,9-HxCDD	80.4	21 - 193
1,2,3,4,6,7,8-HpCDD	101	100	101	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	77.9	26 - 166
OCDD	215	200	107	78 - 144	13C-OCDD	68.6	13 - 199
2,3,7,8-TCDF	22.2	20.0	111	75 - 158	13C-2,3,7,8-TCDF	87.7	22 - 152
1,2,3,7,8-PeCDF	107	100	107	80 - 134	13C-1,2,3,7,8-PeCDF	82.7	21 - 192
2,3,4,7,8-PeCDF	111	100	111	68 - 160	13C-2,3,4,7,8-PeCDF	81.5	13 - 328
1,2,3,4,7,8-HxCDF	107	100	107	72 - 134	13C-1,2,3,4,7,8-HxCDF	82.1	19 - 202
1,2,3,6,7,8-HxCDF	115	100	115	84 - 130	13C-1,2,3,6,7,8-HxCDF	78.2	21 - 159
2,3,4,6,7,8-HxCDF	110	100	110	70 - 156	13C-2,3,4,6,7,8-HxCDF	84.7	22 - 176
1,2,3,7,8,9-HxCDF	109	100	109	78 - 130	13C-1,2,3,7,8,9-HxCDF	88.9	17 - 205
1,2,3,4,6,7,8-HpCDF	116	100	116	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	77.6	21 - 158
1,2,3,4,7,8,9-HpCDF	110	100	110	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	78.8	20 - 186
OCDF	197	200	98.6	63 - 170	13C-OCDF	75.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	75.9	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-073SC-A-11-12-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903648-01 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 15.3 g	QC Batch: B9J0322 Date Extracted: 30-Oct-2019 11:02
Date Collected: 13-Oct-2019 10:41	% Solids: 65.6	Date Analyzed: 17-Dec-19 20:18 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.140			IS 13C-2,3,7,8-TCDD	97.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.114			13C-1,2,3,7,8-PeCDD	99.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.141			13C-1,2,3,4,7,8-HxCDD	78.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.149			13C-1,2,3,6,7,8-HxCDD	79.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.166			13C-1,2,3,7,8,9-HxCDD	81.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.86			J	13C-1,2,3,4,6,7,8-HpCDD	83.5	23 - 140	
OCDD	14.9				13C-OCDD	54.0	17 - 157	
2,3,7,8-TCDF	ND	0.123			13C-2,3,7,8-TCDF	99.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0698			13C-1,2,3,7,8-PeCDF	92.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0658			13C-2,3,4,7,8-PeCDF	95.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0630			13C-1,2,3,4,7,8-HxCDF	86.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0637			13C-1,2,3,6,7,8-HxCDF	83.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0712			13C-2,3,4,6,7,8-HxCDF	83.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0941			13C-1,2,3,7,8,9-HxCDF	94.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.171		13C-1,2,3,4,6,7,8-HpCDF	78.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0914			13C-1,2,3,4,7,8,9-HpCDF	81.4	26 - 138	
OCDF	ND	0.170			13C-OCDF	66.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.2	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0231

TOTALS			
Total TCDD	ND		0.273
Total PeCDD	0.240		0.388
Total HxCDD	1.41		2.11
Total HpCDD	4.78		
Total TCDF	1.51		1.72
Total PeCDF	0.0775		
Total HxCDF	0.120		
Total HpCDF	ND		0.171

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-073SC-A-11-12-191013		QC Batch: B9J0322		Lab Sample: B9J0322-DUP1				
Source LabNumber: 1903648-01		Date Extracted: 30-Oct-2019 11:02		Date Analyzed: 17-Dec-19 19:30 Column: ZB-5MS				
Matrix: Solid								
Sample Size: 15.3 g								
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.128			IS 13C-2,3,7,8-TCDD	95.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.145			13C-1,2,3,7,8-PeCDD	95.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.171			13C-1,2,3,4,7,8-HxCDD	80.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.174			13C-1,2,3,6,7,8-HxCDD	78.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.200			13C-1,2,3,7,8,9-HxCDD	85.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.83			J	13C-1,2,3,4,6,7,8-HpCDD	78.1	23 - 140	
OCDD	11.1				13C-OCDD	63.4	17 - 157	
2,3,7,8-TCDF	ND	0.124			13C-2,3,7,8-TCDF	96.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0867			13C-1,2,3,7,8-PeCDF	91.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0855			13C-2,3,4,7,8-PeCDF	87.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0657			13C-1,2,3,4,7,8-HxCDF	86.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0674			13C-1,2,3,6,7,8-HxCDF	84.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0695			13C-2,3,4,6,7,8-HxCDF	88.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.103			13C-1,2,3,7,8,9-HxCDF	94.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.191			J	13C-1,2,3,4,6,7,8-HpCDF	81.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.123			13C-1,2,3,4,7,8,9-HpCDF	78.5	26 - 138	
OCDF	ND	0.183			13C-OCDF	71.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	80.0	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.0235			
TOTALS								
Total TCDD	0.362		0.960					
Total PeCDD	ND		0.431					
Total HxCDD	1.58		2.59					
Total HpCDD	1.83		4.48					
Total TCDF	1.29							
Total PeCDF	ND	0.0867						
Total HxCDF	0.115							
Total HpCDF	0.191							

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-073SC-A-11-12-191013					Duplicate Lab Sample: B9J0322-DUP1				
Source LabNumber: 1903648-01									
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	95.7	97.9	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	25	13C-1,2,3,7,8-PeCDD	95.0	99.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	80.8	78.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDD	78.3	79.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDD	85.8	81.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.83	1.86	1.74	25	13C-1,2,3,4,6,7,8-HpCDD	78.1	83.5	23 - 140	
OCDD	11.1	14.9	29.2	25	13C-OCDD	63.4	54.0	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	25	13C-2,3,7,8-TCDF	96.0	99.9	24 - 169	
1,2,3,7,8-PeCDF	ND	ND	NA	25	13C-1,2,3,7,8-PeCDF	91.3	92.3	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	25	13C-2,3,4,7,8-PeCDF	87.4	95.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDF	86.2	86.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDF	84.4	83.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	ND	NA	25	13C-2,3,4,6,7,8-HxCDF	88.5	83.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDF	94.7	94.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.191	ND	#	25	13C-1,2,3,4,6,7,8-HpCDF	81.4	78.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25	13C-1,2,3,4,7,8,9-HpCDF	78.5	81.4	26 - 138	
OCDF	ND	ND	NA	25	13C-OCDF	71.1	66.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	80.0	94.2	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-073SC-A-12-12.6-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903648-02 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 14.1 g	QC Batch: B9J0322 Date Extracted: 30-Oct-2019 11:02
Date Collected: 13-Oct-2019 10:41	% Solids: 70.7	Date Analyzed: 17-Dec-19 21:06 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.156			IS 13C-2,3,7,8-TCDD	90.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0989			13C-1,2,3,7,8-PeCDD	97.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.141			13C-1,2,3,4,7,8-HxCDD	76.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.146			13C-1,2,3,6,7,8-HxCDD	75.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.166			13C-1,2,3,7,8,9-HxCDD	80.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		1.39		13C-1,2,3,4,6,7,8-HpCDD	86.1	23 - 140	
OCDD	12.8				13C-OCDD	71.9	17 - 157	
2,3,7,8-TCDF	ND	0.120			13C-2,3,7,8-TCDF	89.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0848			13C-1,2,3,7,8-PeCDF	81.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0832			13C-2,3,4,7,8-PeCDF	83.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0531			13C-1,2,3,4,7,8-HxCDF	82.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0529			13C-1,2,3,6,7,8-HxCDF	81.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0555			13C-2,3,4,6,7,8-HxCDF	84.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0802			13C-1,2,3,7,8,9-HxCDF	90.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.108			J	13C-1,2,3,4,6,7,8-HpCDF	79.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0859			13C-1,2,3,4,7,8,9-HpCDF	82.1	26 - 138	
OCDF	ND	0.166			13C-OCDF	79.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.5	35 - 197	

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

TEQMinWHO2005Dioxin 0.00492

TOTALS								
Total TCDD	ND	0.156						
Total PeCDD	ND		0.352					
Total HxCDD	0.800		1.88					
Total HpCDD	2.24		3.63					
Total TCDF	0.181		0.624					
Total PeCDF	ND	0.0848						
Total HxCDF	ND		0.0765					
Total HpCDF	0.108							

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-1073SC-A-12-12.6-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903648-03 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 14.3 g	QC Batch: B9J0322 Date Extracted: 30-Oct-2019 11:02
Date Collected: 13-Oct-2019 0:00	% Solids: 69.8	Date Analyzed: 17-Dec-19 21:54 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.170			IS 13C-2,3,7,8-TCDD	77.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.114			13C-1,2,3,7,8-PeCDD	79.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.196			13C-1,2,3,4,7,8-HxCDD	64.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.177			13C-1,2,3,6,7,8-HxCDD	68.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.216			13C-1,2,3,7,8,9-HxCDD	68.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.30			J	13C-1,2,3,4,6,7,8-HpCDD	74.6	23 - 140	
OCDD	8.37				13C-OCDD	61.6	17 - 157	
2,3,7,8-TCDF	ND		0.200		13C-2,3,7,8-TCDF	81.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0772			13C-1,2,3,7,8-PeCDF	70.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0786			13C-2,3,4,7,8-PeCDF	73.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0814			13C-1,2,3,4,7,8-HxCDF	72.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0794			13C-1,2,3,6,7,8-HxCDF	73.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0849			13C-2,3,4,6,7,8-HxCDF	74.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.120			13C-1,2,3,7,8,9-HxCDF	74.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0746			13C-1,2,3,4,6,7,8-HpCDF	73.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0863			13C-1,2,3,4,7,8,9-HpCDF	71.6	26 - 138	
OCDF	ND	0.179			13C-OCDF	69.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	79.2	35 - 197	

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

TEQMinWHO2005Dioxin 0.0155

TOTALS			
Total TCDD	ND		0.605
Total PeCDD	ND	0.114	
Total HxCDD	1.05		
Total HpCDD	3.28		
Total TCDF	0.759		0.959
Total PeCDF	0.229		0.309
Total HxCDF	ND	0.120	
Total HpCDF	ND	0.0863	

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-075SC-A-14-15-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903648-04 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 16.0 g	QC Batch: B9J0322 Date Extracted: 30-Oct-2019 11:02
Date Collected: 13-Oct-2019 7:32	% Solids: 63.0	Date Analyzed : 17-Dec-19 22:43 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.167			IS 13C-2,3,7,8-TCDD	83.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.115			13C-1,2,3,7,8-PeCDD	90.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.193			13C-1,2,3,4,7,8-HxCDD	68.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.178			13C-1,2,3,6,7,8-HxCDD	73.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.207			13C-1,2,3,7,8,9-HxCDD	76.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.13			J	13C-1,2,3,4,6,7,8-HpCDD	76.0	23 - 140	
OCDD	8.85				13C-OCDD	64.5	17 - 157	
2,3,7,8-TCDF	ND	0.146			13C-2,3,7,8-TCDF	85.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0856			13C-1,2,3,7,8-PeCDF	80.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0741			13C-2,3,4,7,8-PeCDF	81.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.0654		13C-1,2,3,4,7,8-HxCDF	79.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0827			13C-1,2,3,6,7,8-HxCDF	78.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0888			13C-2,3,4,6,7,8-HxCDF	78.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.124			13C-1,2,3,7,8,9-HxCDF	82.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.153			J	13C-1,2,3,4,6,7,8-HpCDF	78.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.105			13C-1,2,3,4,7,8,9-HpCDF	77.0	26 - 138	
OCDF	ND	0.170			13C-OCDF	73.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.9	35 - 197	

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

TEQMinWHO2005Dioxin 0.0155

TOTALS								
Total TCDD	ND	0.167						
Total PeCDD	ND		0.110					
Total HxCDD	ND		0.773					
Total HpCDD	2.84							
Total TCDF	0.592							
Total PeCDF	0.271							
Total HxCDF	0.168		0.281					
Total HpCDF	0.153							

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-075SC-A-15-16-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903648-05 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 15.4 g	QC Batch: B9J0322 Date Extracted: 30-Oct-2019 11:02
Date Collected: 13-Oct-2019 7:32	% Solids: 65.2	Date Analyzed : 17-Dec-19 23:32 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.158			IS 13C-2,3,7,8-TCDD	96.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.107			13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.157			13C-1,2,3,4,7,8-HxCDD	75.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.156			13C-1,2,3,6,7,8-HxCDD	82.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.178			13C-1,2,3,7,8,9-HxCDD	80.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	4.23				13C-1,2,3,4,6,7,8-HpCDD	87.9	23 - 140	
OCDD	45.6				13C-OCDD	80.9	17 - 157	
2,3,7,8-TCDF	ND		0.546		13C-2,3,7,8-TCDF	93.0	24 - 169	
1,2,3,7,8-PeCDF	ND		0.638		13C-1,2,3,7,8-PeCDF	89.0	24 - 185	
2,3,4,7,8-PeCDF	ND		0.225		13C-2,3,4,7,8-PeCDF	89.8	21 - 178	
1,2,3,4,7,8-HxCDF	0.971			J	13C-1,2,3,4,7,8-HxCDF	85.3	26 - 152	
1,2,3,6,7,8-HxCDF	0.268			J	13C-1,2,3,6,7,8-HxCDF	86.1	26 - 123	
2,3,4,6,7,8-HxCDF	0.150			J	13C-2,3,4,6,7,8-HxCDF	89.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0859			13C-1,2,3,7,8,9-HxCDF	92.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.31			J	13C-1,2,3,4,6,7,8-HpCDF	90.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0999			13C-1,2,3,4,7,8,9-HpCDF	88.6	26 - 138	
OCDF	1.80			J	13C-OCDF	85.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.209

TOTALS								
Total TCDD	ND	0.158						
Total PeCDD	ND	0.107						
Total HxCDD	1.34		1.88					
Total HpCDD	10.6							
Total TCDF	1.29		1.84					
Total PeCDF	0.737		2.20					
Total HxCDF	2.51							
Total HpCDF	2.94							

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

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

Sample ID: PDI-076SC-A-10-11-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903648-06 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 13.6 g	QC Batch: B9J0322 Date Extracted: 30-Oct-2019 11:02
Date Collected: 13-Oct-2019 13:08	% Solids: 73.8	Date Analyzed : 18-Dec-19 00:19 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.144			IS 13C-2,3,7,8-TCDD	95.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.102			13C-1,2,3,7,8-PeCDD	104	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.145			13C-1,2,3,4,7,8-HxCDD	80.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.129			13C-1,2,3,6,7,8-HxCDD	87.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.157			13C-1,2,3,7,8,9-HxCDD	89.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.202			13C-1,2,3,4,6,7,8-HpCDD	84.6	23 - 140	
OCDD	1.75			J	13C-OCDD	80.0	17 - 157	
2,3,7,8-TCDF	ND	0.0924			13C-2,3,7,8-TCDF	93.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0541			13C-1,2,3,7,8-PeCDF	87.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0439			13C-2,3,4,7,8-PeCDF	90.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0415			13C-1,2,3,4,7,8-HxCDF	89.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0426			13C-1,2,3,6,7,8-HxCDF	90.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0440			13C-2,3,4,6,7,8-HxCDF	92.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0593			13C-1,2,3,7,8,9-HxCDF	99.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0302			13C-1,2,3,4,6,7,8-HpCDF	93.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0405			13C-1,2,3,4,7,8,9-HpCDF	86.2	26 - 138	
OCDF	ND	0.140			13C-OCDF	89.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

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

TEQMinWHO2005Dioxin 0.000525

TOTALS								
Total TCDD	ND	0.144						
Total PeCDD	ND	0.102						
Total HxCDD	ND		0.178					
Total HpCDD	0.452							
Total TCDF	ND	0.0924						
Total PeCDF	ND	0.0541						
Total HxCDF	ND	0.0593						
Total HpCDF	ND	0.0405						

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

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

Sample ID: PDI-076SC-A-11-11.9-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903648-07 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 14.2 g	QC Batch: B9J0322 Date Extracted: 30-Oct-2019 11:02
Date Collected: 13-Oct-2019 13:13	% Solids: 71.2	Date Analyzed : 18-Dec-19 01:09 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.168			IS 13C-2,3,7,8-TCDD	96.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0972			13C-1,2,3,7,8-PeCDD	110	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.145			13C-1,2,3,4,7,8-HxCDD	73.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.128			13C-1,2,3,6,7,8-HxCDD	83.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.157			13C-1,2,3,7,8,9-HxCDD	82.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.318			J	13C-1,2,3,4,6,7,8-HpCDD	74.5	23 - 140	
OCDD	2.86			J	13C-OCDD	73.7	17 - 157	
2,3,7,8-TCDF	ND	0.0806			13C-2,3,7,8-TCDF	92.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0660			13C-1,2,3,7,8-PeCDF	92.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0544			13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0548			13C-1,2,3,4,7,8-HxCDF	87.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0524			13C-1,2,3,6,7,8-HxCDF	87.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0545			13C-2,3,4,6,7,8-HxCDF	89.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0838			13C-1,2,3,7,8,9-HxCDF	87.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0694			13C-1,2,3,4,6,7,8-HpCDF	80.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0925			13C-1,2,3,4,7,8,9-HpCDF	74.7	26 - 138	
OCDF	ND	0.199			13C-OCDF	80.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00404

TOTALS								
Total TCDD	ND	0.168						
Total PeCDD	ND	0.0972						
Total HxCDD	0.251							
Total HpCDD	0.318		0.759					
Total TCDF	ND	0.0806						
Total PeCDF	ND	0.0660						
Total HxCDF	ND	0.0838						
Total HpCDF	ND	0.0925						

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

1903648 3.6°C, 3.8°C

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

Project: Gasco PDI
Client: NW Natural

COC ID: VISTA-20191013-143451
Sample Custodian: SN
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-073SC-A-11-12-191013	N	SE	10/13/2019	10:41	2	<input checked="" type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
002	PDI-073SC-A-12-12.6-191013	N	SE	10/13/2019	10:41	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
003	PDI-1073SC-A-12-12.6-191013	FD	SE	10/13/2019		1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
004	PDI-075SC-A-14-15-191013	N	SE	10/13/2019	7:32	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
005	PDI-075SC-A-15-16-191013	N	SE	10/13/2019	7:32	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
006	PDI-076SC-A-10-11-191013	N	SE	10/13/2019	13:08	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
007	PDI-076SC-A-11-11.9-191013	N	SE	10/13/2019	13:13	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C

Comment:

Relinquished By: Signature: <i>[Signature]</i>	Received By: Signature: <i>[Signature]</i>	Relinquished By: Signature:	Received By: Signature:	Relinquished By: Signature:	Received By: Signature:
Print Name: C. ORZARO	Print Name: Hayden Gama	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: VAL	Company:	Company:	Company:	Company:
Date/Time: 10/14/19 0755	Date/Time: 10/15/19	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903648 TAT std

Samples Arrival:	Date/Time		Initials:		Location: <u>WR-2</u>		
	<u>10/15/19 08:51</u>		<u>HOG</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"/> GSO	<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>3.8</u>	(uncorrected)	Probe used: <u>Y</u> <input checked="" type="checkbox"/> <u>N</u>		Thermometer ID: <u>IR-4</u>		
Temp °C:	<u>3.8</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 4</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trk # <u>7767 1463 7378</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"/>	<input checked="" 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	Initials:	Location: <u>WR-2</u>
	<u>10/16/19 0954</u>	<u>ajm</u>	Shelf/Rack: <u>A-1</u>
COC Anomaly/Sample Acceptance Form completed?		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 1903648

 TAT Std

Samples Arrival:	Date/Time: 10/15/19 0851	Initials: VWS	Location: WR-2
			Shelf/Rack: N/A
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> GSO	<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: 3.6 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N	Thermometer ID: IR-3	
Temp °C: 3.6 (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>4 of 4</u> Trk # <u>7767 1463 8021</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 checked="" type="checkbox"/> Return
		<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present? <u>COC present in other codes</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Holding Time Acceptable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Logged In:	Date/Time: 10/16/19 0954	Initials: ajm	Location: WR-2
			Shelf/Rack: A-1
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 1903648

LabNumber	CoC Sample ID	Label ID matches COCID	Label ID doesn't match COCID	SampleAlias	Sampled	Label Sampled matches	Sampled doesn't match	Container	Container Correct	BaseMatrix	Sample Comments
4	1903648-01 A PDI-073SC-A-11-12-191013	<input checked="" type="checkbox"/>		001	13-Oct-19 10:41	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903648-01 B PDI-073SC-A-11-12-191013	<input checked="" type="checkbox"/>		001	13-Oct-19 10:41	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903648-02 A PDI-073SC-A-12-12.6-191013	<input checked="" type="checkbox"/>		002	13-Oct-19 10:41	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903648-03 A PDI-1073SC-A-12-12.6-191013	<input checked="" type="checkbox"/>		003	* 13-Oct-19 00:00	<input type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
2	1903648-04 A PDI-075SC-A-14-15-191013	<input checked="" type="checkbox"/>		004	13-Oct-19 07:32	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
2	1903648-05 A PDI-075SC-A-15-16-191013	<input checked="" type="checkbox"/>		005	13-Oct-19 07:32	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903648-06 A PDI-076SC-A-10-11-191013	<input checked="" type="checkbox"/>		006	13-Oct-19 13:08	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903648-07 A PDI-076SC-A-11-11.9-191013	<input checked="" type="checkbox"/>		007	13-Oct-19 13:13	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preservation Documented: Na2S2O3 Trizma <u>None</u> Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
If Chlorinated or Drinking Water Samples, Acceptable Preservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

* 10:42 is on label time

"4" = cooler 4
"2" = cooler 2

Verified by/Date: HDC 10/17/19

EXTRACTION INFORMATION

Process Sheet

Workorder: 1903648

05-NOV-19

Prep Expiration: 2020-10-12
Client: Anchor QEA, LLC

Workorder Due: ~~12-Nov-19 00:00~~

TAT: ~~28~~ 21 @ 10/18/19

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

Prep Batch: 8930322

Prep Data Entered: BA AO 11/01/19
Date and Initials

Initial Sequence: 5920037

LabSampleID	Recon ClientSampleID	Date Received	Location	Comments
1903648-01	<input checked="" type="checkbox"/> PDI-073SC-A-11-12-191013	15-Oct-19 08:51	WR-2 A-1	DUP
1903648-02	<input checked="" type="checkbox"/> PDI-073SC-A-12-12.6-191013	15-Oct-19 08:51	WR-2 A-1	
1903648-03	<input checked="" type="checkbox"/> PDI-1073SC-A-12-12.6-191013	15-Oct-19 08:51	WR-2 A-1	
1903648-04	<input checked="" type="checkbox"/> PDI-075SC-A-14-15-191013	15-Oct-19 08:51	WR-2 A-1	
1903648-05	<input checked="" type="checkbox"/> PDI-075SC-A-15-16-191013	15-Oct-19 08:51	WR-2 A-1	
1903648-06	<input checked="" type="checkbox"/> PDI-076SC-A-10-11-191013	15-Oct-19 08:51	WR-2 A-1	
1903648-07	<input checked="" type="checkbox"/> PDI-076SC-A-11-11.9-191013	15-Oct-19 08:51	WR-2 A-1	

WO Comments: ~~PCB - 5g extraction (dry weight)~~
Dioxin - 10g (dry weight)
~~PCB - 5g extraction (dry weight)~~

Pre-Prep Check Out: 90 10/29/19
Pre-Prep Check In: 90 10/29/19

Prep Check Out: 22 10/30/19
Prep Check In: 22 10/30/19

Prep Reconciled Initials/Date: 90 10/29/19
Spike Reconciled Initials/Date: 22 10/30/19
VialBoxID: Dragon Ball
AZ 12/10/19
Kachimura

PREPARATION BENCH SHEET

Matrix: Solid

B9J0322

Chemist: K

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 30-Oct-19 11:02

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B9J0322-BLK1	NA	(10.00)	<u>K</u> 10/30/19	<u>AO</u> <u>K</u> 10/31/19	<u>K</u> 10/31/19	<u>K</u> 10/31/19	<u>K</u> 10/31/19	<u>AO</u> 11/01/19	<u>AO</u> <u>AZ</u> 11/01/19
<input type="checkbox"/>	B9J0322-BS1	NA	(10.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	B9J0322-DUP1 1903648-01	15.25	15.31	↓	↓	NA	↓	↓	↓	↓
<input type="checkbox"/>	1903648-01	15.25	15.27	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903648-02	14.15	14.14	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903648-03	14.32	14.33	↓	↓	<u>K</u> 10/31/19	↓	↓	↓	↓
<input type="checkbox"/>	1903648-04	15.88	15.95	↓	↓	NA	↓	↓	↓	↓
<input type="checkbox"/>	1903648-05	15.34	15.40	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903648-06 <u>K</u>	<u>K</u> 15.35	13.86	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903648-07	14.04	14.20	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-01	12.21	12.22	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-02	11.46	11.52	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-03	14.00	14.00	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-06	15.90	15.92	↓	↓	<u>K</u> 10/31/19	↓	↓	↓	↓
<input type="checkbox"/>	1903655-07	11.88	11.88	↓	↓	NA	↓	↓	↓	↓

IS Name <u>V1</u>	NS Name <u>U5</u>	CRS Name <u>V4</u>	RS Name <u>V7</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>K</u> 10/30/19
PCDD/F <u>19C902</u>	PCDD/F <u>18F913</u>	PCDD/F <u>19I1602</u>	PCDD/F <u>19I1603</u>	Start Date/Time 10/30/19 14:28	SOLV: <u>tol</u>	Check In: Chemist/Date: <u>K</u> 10/30/19
PCB	PCB	PCB	PCB	Stop Date/Time 10/31/19 6:28	Other <u>NA</u>	Balance ID: <u>HRMS6</u>
PAH	PAH	PAH	PAH	Final Volume(s) <u>C14</u> <u>20</u>		

Comments:

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

PREPARATION BENCH SHEET

Matrix: Solid

B9J0322

Chemist: RL

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 30-Oct-19 11:02

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	1903655-08	13.40	13.41	<u>RL</u> <u>10/30/19</u>	<u>RL</u> <u>10/31/19</u>	NA	<u>RL</u> <u>10/31/19</u>	<u>RL</u> <u>10/31/19</u>	<u>RL</u> <u>10/31/19</u>	<u>RL</u> <u>10/31/19</u>
<input type="checkbox"/>	1903655-09	11.80	11.80	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-10	14.36	14.47	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-11	13.17	13.17	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-12	13.94	13.98	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-13	14.56	14.56	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903655-14	14.66	14.67	↓	↓	↓	↓	↓	↓	↓

IS Name <u>V2</u>	NS Name <u>V3</u>	CRS Name <u>V7</u>	RS Name <u>V7</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RL 10/30/19</u>
PCDD/F <u>19C1902, 10 µL</u>	PCDD/F <u>18F1913, 10 µL</u>	PCDD/F <u>19I1607, 10 µL</u>	PCDD/F <u>19T1603, 10 µL</u>	Start Date/Time <u>10/30/19</u> <u>14:29</u>	SOLV: <u>tol</u>	Check In: Chemist/Date: <u>RL 10/30/19</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>10/31/19</u> <u>10:28</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14</u> <u>20 µL</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

Batch: B9J0322

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903648-01	15.27	65.58659	10.0151	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-02	14.14	70.68965	9.9955	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-03	14.33	69.82544	10.0060	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-04	15.95	62.95399	10.0412	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-05	15.4	65.18608	10.0387	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-06	13.56	73.81465	10.0093	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903648-07	14.2	71.24999	10.1175	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-01	12.22	81.86813	10.0043	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-02	11.52	87.24428	10.0505	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-03	14	71.42857	10.0000	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-06	15.92	62.88783	10.0117	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-07	11.88	84.17367	9.9998	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-08	13.41	74.64455	10.0098	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-09	11.8	84.77367	10.0033	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-10	14.47	69.64091	10.0770	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-11	13.17	75.94936	10.0025	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-12	13.98	71.71718	10.0261	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-13	14.56	68.69774	10.0024	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
1903655-14	14.67	68.21367	10.0069	20	30-Oct-19 11:02	JJC			Sediment	1613 Full List
B9J0322-BLK1	10			20	30-Oct-19 11:02	JJC				QC
B9J0322-BS1	10			20	30-Oct-19 11:02	JJC	18F1913	10		QC
B9J0322-DUPI	15.31			20	30-Oct-19 11:02	JJC				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 11/01/19

Printed: 11/1/2019 1:07:40PM
Page 1 of 1

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9J0195

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

Inst HRMS-10
 Date/Time IN: 10/29/19 9:30
 Date/Time OUT: 10/29/19 9:53

B		C	D	E		F	G	H	I	K	L	M	N	O	P
Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*	
			Pan Tare Wt. (gms)	10/29/19											10/30/19
		<u>A</u>	Sample	1.27	10.27	7.14				<u>Mxd</u>					X
		<u>I</u>	Sample	1.29	6.51	4.98									X
		<u>I</u>	Sample	1.26	9.28	6.86									X
		<u>I</u>	Sample	1.28	9.54	6.48									X
		<u>I</u>	Sample	1.28	9.61	6.71									X
		<u>I</u>	Sample	1.27	10.55	8.12									X
		<u>I</u>	Sample	1.27	9.27	6.97									X

*Sample homogenized in sample container unless otherwise noted.

SAMPLE DATA – EPA METHOD 1613

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-4.qld

Last Altered: Wednesday, December 18, 2019 18:01:46 Pacific Standard Time

Printed: Friday, December 20, 2019 12:12:07 Pacific Standard Time

HC 12-20-19

QT 12/27/19

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD		6.18e5	10.0000				1.001		26.18					0.117
2	2 1,2,3,7,8-PeCDD		4.77e5	10.0000				1.001		31.31					0.0712
3	3 1,2,3,4,7,8-HxCDD		3.14e5	10.0000				1.000		34.65					0.0889
4	4 1,2,3,6,7,8-HxCDD		3.74e5	10.0000				1.000		34.75					0.0866
5	5 1,2,3,7,8,9-HxCDD		3.49e5	10.0000				1.001		35.06					0.0978
6	6 1,2,3,4,6,7,8-HpCDD		2.92e5	10.0000				1.000		38.53					0.124
7	7 OCDD		4.13e5	10.0000				1.000		41.77					0.172
8	8 2,3,7,8-TCDF		8.60e5	10.0000				1.001		25.20					0.0613
9	9 1,2,3,7,8-PeCDF		6.61e5	10.0000				1.001		30.00					0.0447
10	10 2,3,4,7,8-PeCDF		6.60e5	10.0000				1.001		31.00					0.0454
11	11 1,2,3,4,7,8-HxCDF		4.51e5	10.0000				1.000		33.78					0.0298
12	12 1,2,3,6,7,8-HxCDF		5.47e5	10.0000				1.000		33.91					0.0288
13	13 2,3,4,6,7,8-HxCDF		5.05e5	10.0000				1.001		34.51					0.0304
14	14 1,2,3,7,8,9-HxCDF		4.04e5	10.0000				1.000		35.35					0.0440
15	15 1,2,3,4,6,7,8-HpCDF		4.17e5	10.0000				1.001		37.14					0.0486
16	16 1,2,3,4,7,8,9-HpCDF		2.79e5	10.0000				1.000		39.13					0.0605
17	17 OCDF		5.56e5	10.0000				1.000		41.97					0.134
18	18 13C-2,3,7,8-TCDD	6.18e5	6.52e5	10.0000		0.785	NO	1.027	1.028	26.15	26.15	180.84	90.4		0.476
19	19 13C-1,2,3,7,8-PeCDD	4.77e5	6.52e5	10.0000		0.628	NO	1.230	1.230	31.29	31.29	196.92	98.5		0.300
20	20 13C-1,2,3,4,7,8-Hx...	3.14e5	6.20e5	10.0000		1.253	NO	1.014	1.014	34.64	34.64	156.88	78.4		0.689
21	21 13C-1,2,3,6,7,8-Hx...	3.74e5	6.20e5	10.0000		1.222	NO	1.017	1.017	34.74	34.75	155.37	77.7		0.573
22	22 13C-1,2,3,7,8,9-Hx...	3.49e5	6.20e5	10.0000		1.187	NO	1.025	1.025	35.01	35.02	170.71	85.4		0.675
23	23 13C-1,2,3,4,6,7,8-H...	2.92e5	6.20e5	10.0000		1.041	NO	1.127	1.128	38.51	38.52	176.24	88.1		0.682
24	24 13C-OCDD	4.13e5	6.20e5	10.0000		0.888	NO	1.223	1.223	41.79	41.77	283.06	70.8		0.894
25	25 13C-2,3,7,8-TCDF	8.60e5	9.60e5	10.0000		0.727	NO	0.989	0.989	25.16	25.17	183.30	91.7		0.566
26	26 13C-1,2,3,7,8-PeCDF	6.61e5	9.60e5	10.0000		1.510	NO	1.178	1.178	29.98	29.98	177.00	88.5		0.675
27	27 13C-2,3,4,7,8-PeCDF	6.60e5	9.60e5	10.0000		1.483	NO	1.217	1.217	30.97	30.97	183.38	91.7		0.700
28	28 13C-1,2,3,4,7,8-Hx...	4.51e5	6.20e5	10.0000		0.530	NO	0.989	0.989	33.78	33.78	172.19	86.1		0.612
29	29 13C-1,2,3,6,7,8-Hx...	5.47e5	6.20e5	10.0000		0.523	NO	0.992	0.992	33.89	33.90	171.84	85.9		0.503
30	30 13C-2,3,4,6,7,8-Hx...	5.05e5	6.20e5	10.0000		0.529	NO	1.009	1.009	34.47	34.47	182.32	91.2		0.579
31	31 13C-1,2,3,7,8,9-Hx...	4.04e5	6.20e5	10.0000		0.561	NO	1.035	1.035	35.37	35.35	177.32	88.7		0.704
32	32 13C-1,2,3,4,6,7,8-H...	4.17e5	6.20e5	10.0000		0.434	NO	1.085	1.086	37.08	37.10	178.22	89.1		0.731

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-4.qld

Last Altered: Wednesday, December 18, 2019 18:01:46 Pacific Standard Time

Printed: Friday, December 20, 2019 12:12:07 Pacific Standard Time

Name: 191217K2_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
33	33 13C-1,2,3,4,7,8,9-H...	2.79e5	6.20e5	10.0000		0.449	NO	1.145	1.145	39.11	39.13	166.97	83.5		1.02
34	34 13C-OCDF	5.56e5	6.20e5	10.0000		0.908	NO	1.229	1.228	41.97	41.97	302.87	75.7		0.629
35	35 37Cl-2,3,7,8-TCDD	2.34e5	6.52e5	10.0000				1.028	1.028	26.17	26.17	67.245	84.1		0.0908
36	36 13C-1,2,3,4-TCDD	6.52e5	6.52e5	10.0000		0.790	NO	1.000	1.000	25.45	25.45	200.00	100.0		0.499
37	37 13C-1,2,3,4-TCDF	9.60e5	9.60e5	10.0000		0.743	NO	1.000	1.000	23.55	23.57	200.00	100.0		0.554
38	38 13C-1,2,3,4,6,9-Hx...	6.20e5	6.20e5	10.0000		0.538	NO	1.000	1.000	34.16	34.16	200.00	100.0		0.517
39	39 Total Tetra-Dioxins		6.18e5	10.0000				0.000		24.62					0.0746
40	40 Total Penta-Dioxins		4.77e5	10.0000				0.000		29.96					0.0250
41	41 Total Hexa-Dioxins		0.00e0	10.0000				0.000		33.63					0.0408
42	42 Total Hepta-Dioxins		2.92e5	10.0000				0.000		38.80					0.0682
43	43 Total Tetra-Furans		8.60e5	10.0000				0.000		23.61					0.0232
44	44 1st Func. Penta-Fur...		0.00e0	10.0000				0.000		27.04					0.0135
45	45 Total Penta-Furans		0.00e0	10.0000				0.000		29.27					0.0210
46	46 Total Hexa-Furans		0.00e0	10.0000				0.000		33.56					0.0191
47	47 Total Hepta-Furans		0.00e0	10.0000				0.000		37.83					0.0299

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-4.qld

Last Altered: Wednesday, December 18, 2019 18:01:46 Pacific Standard Time

Printed: Friday, December 20, 2019 12:12:07 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hepta-Dioxins

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Tetra-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Furans function 1

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Penta-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-4.qld
Last Altered: Wednesday, December 18, 2019 18:01:46 Pacific Standard Time
Printed: Friday, December 20, 2019 12:12:07 Pacific Standard Time

Name: 191217K2_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

Hexa-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Hepta-Furans

#	Name	N/Y	RT	Area	IS Area	Response	Primary Flags	Conc.	EMPC
1									

Dataset: Untitled

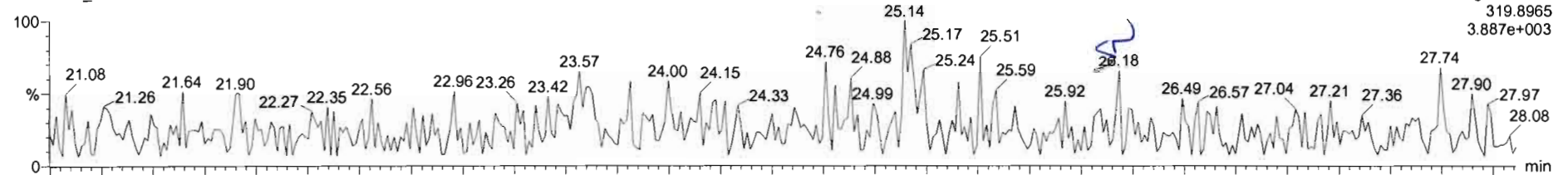
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

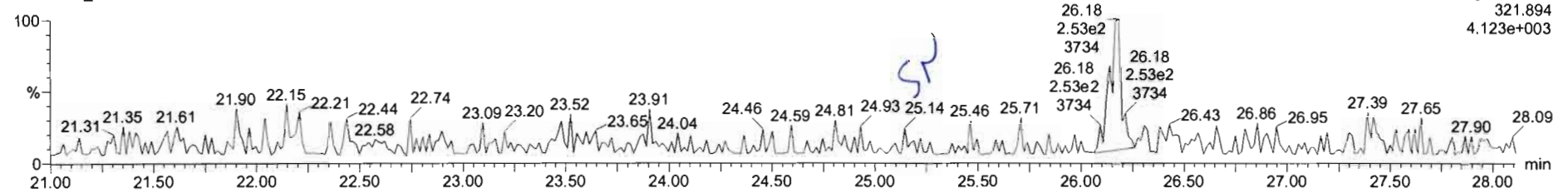
Name: 191217K2_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

191217K2_4

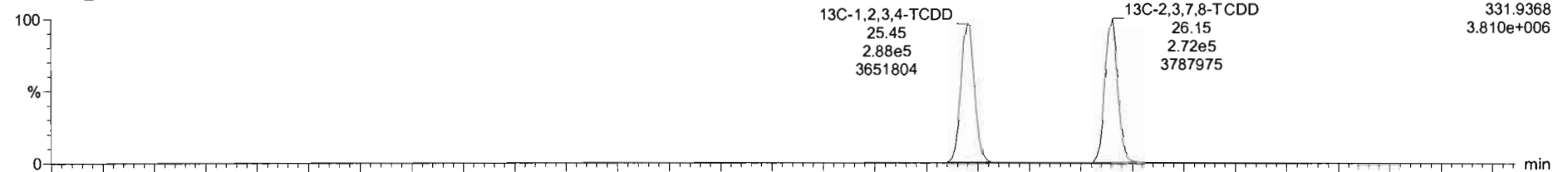


191217K2_4

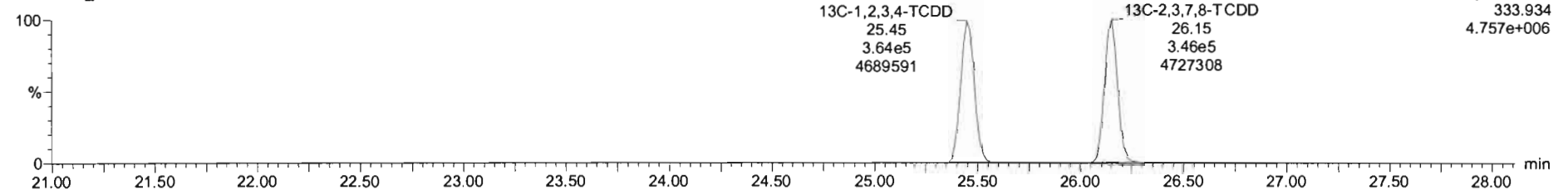


13C-2,3,7,8-TCDD

191217K2_4



191217K2_4



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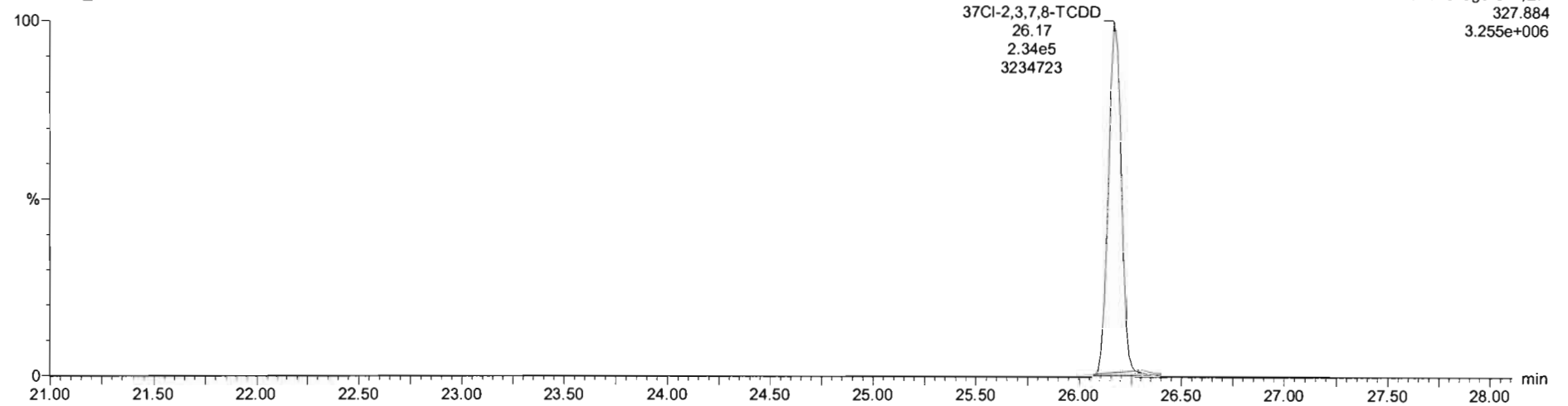
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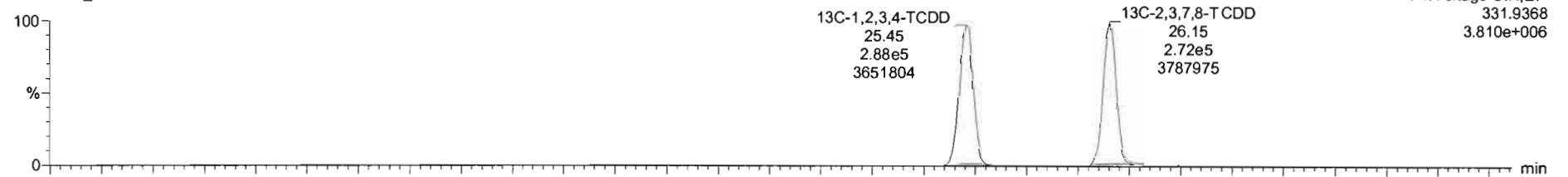
37Cl-2,3,7,8-TCDD

191217K2_4

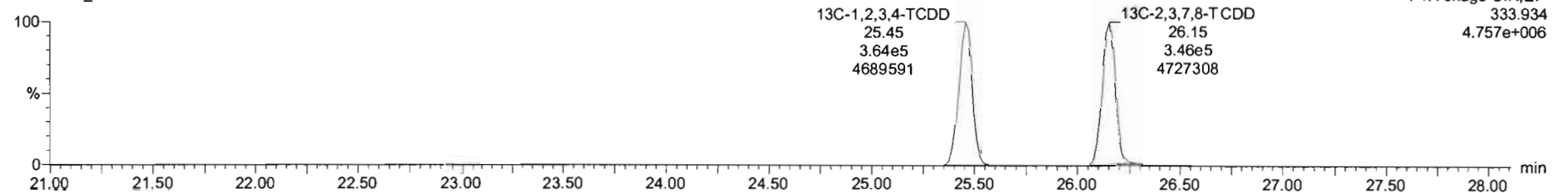


13C-1,2,3,4-TCDD

191217K2_4



191217K2_4



Dataset: Untitled

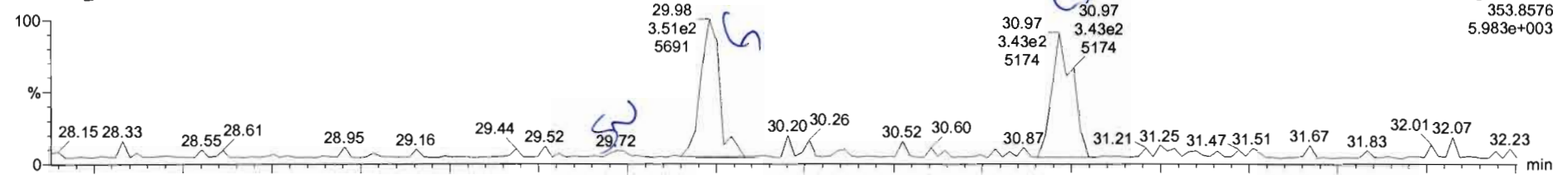
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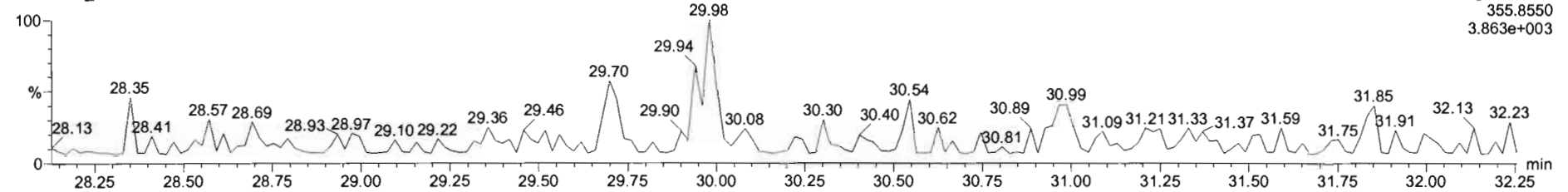
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1,2,3,7,8-PeCDD

191217K2_4

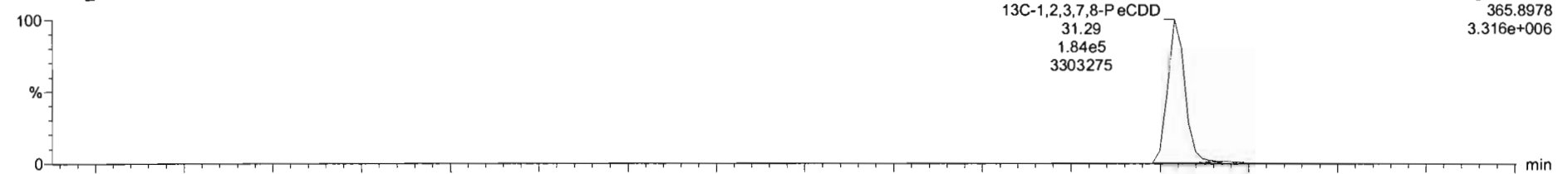


191217K2_4

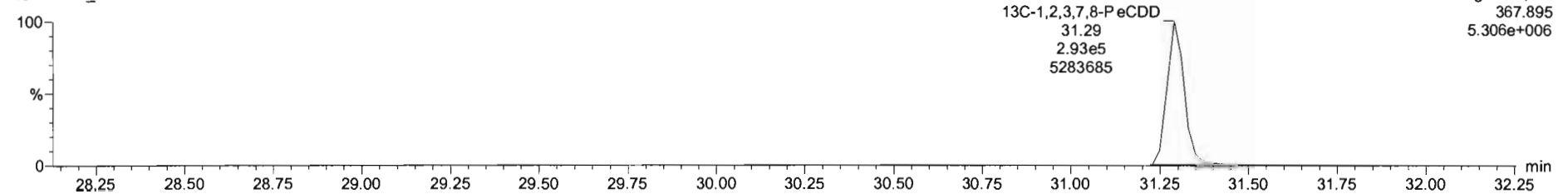


13C-1,2,3,7,8-PeCDD

191217K2_4



191217K2_4



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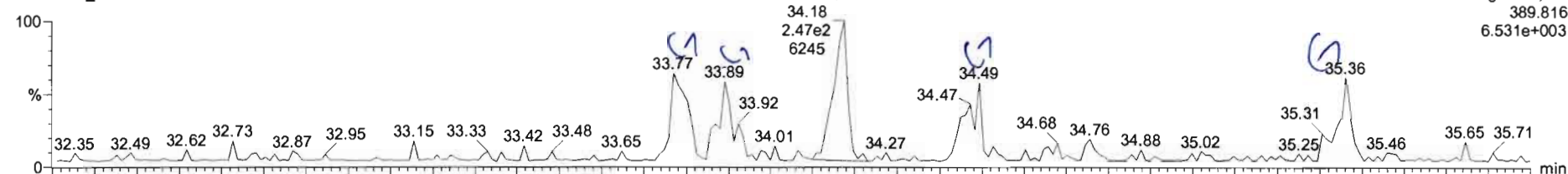
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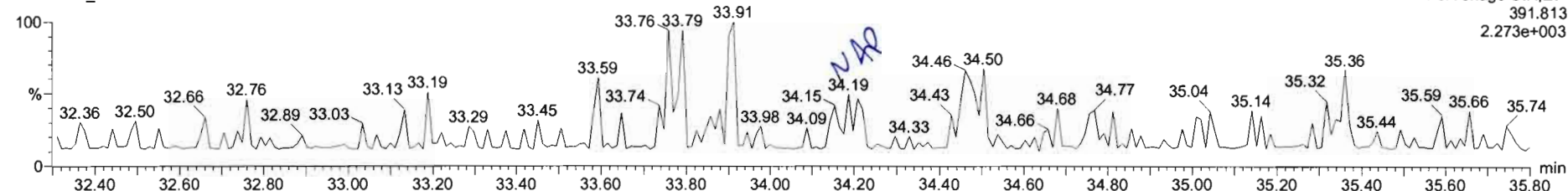
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1,2,3,4,7,8-HxCDD

191217K2_4

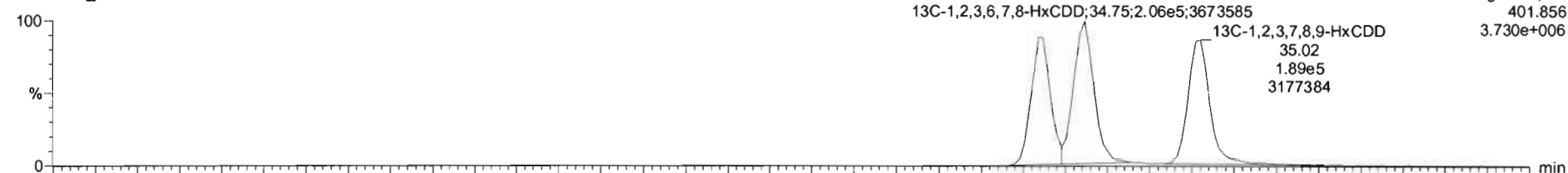


191217K2_4

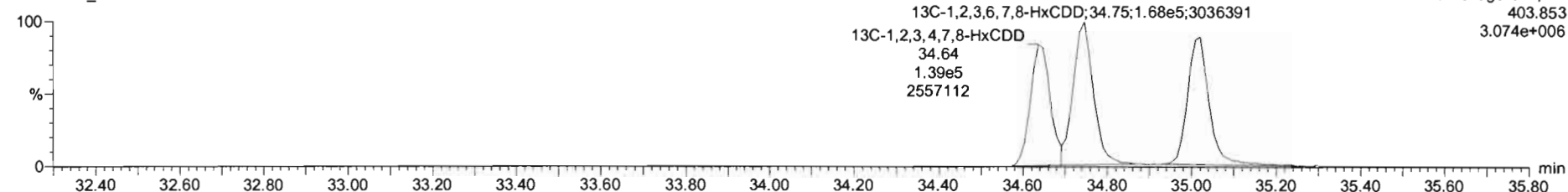


13C-1,2,3,4,7,8-HxCDD

191217K2_4



191217K2_4



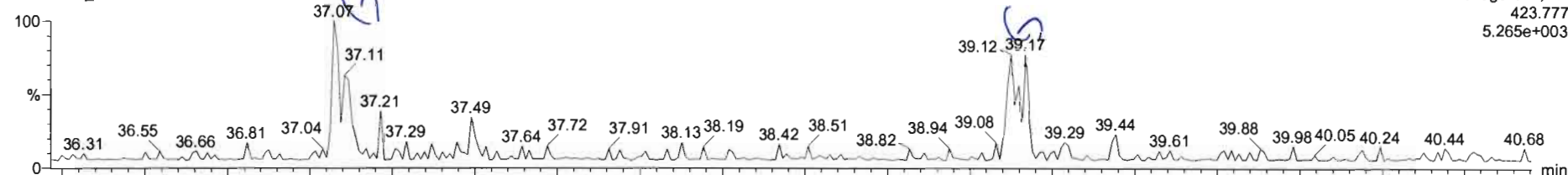
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

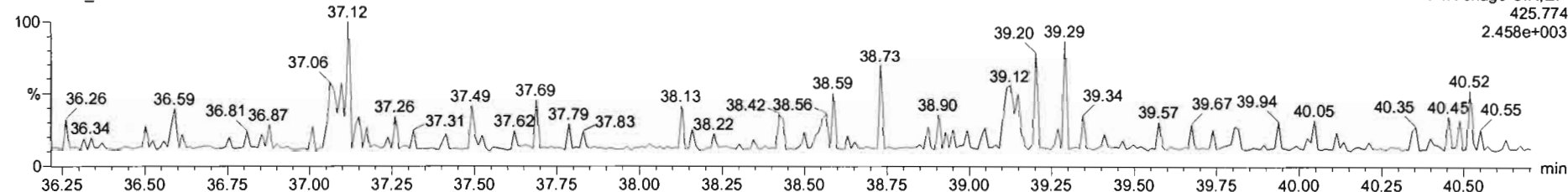
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1,2,3,4,6,7,8-HpCDD

191217K2_4

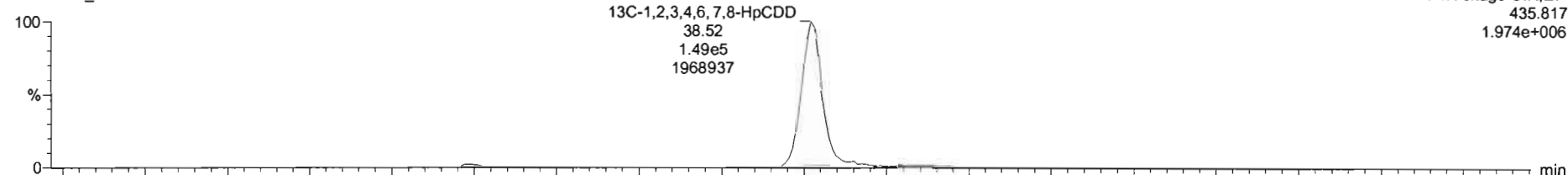


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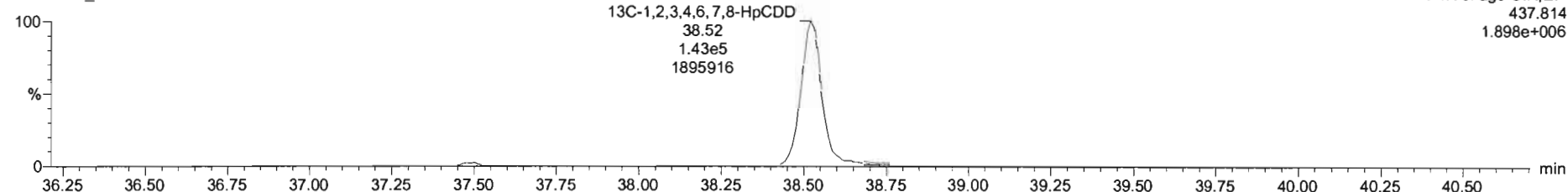


13C-1,2,3,4,6,7,8-HpCDD

191217K2_4



191217K2_4



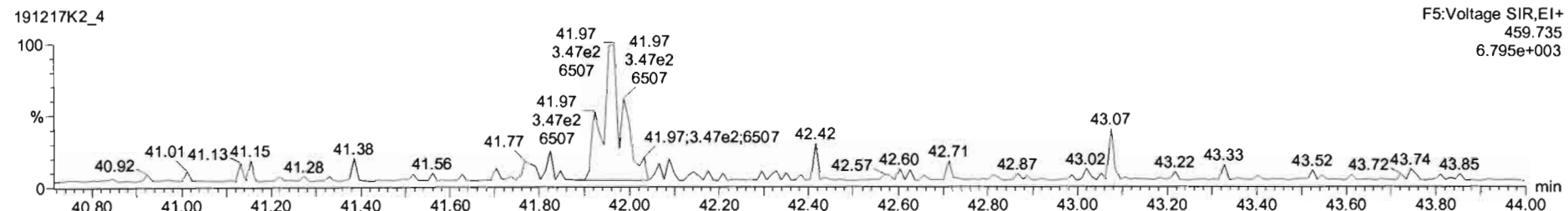
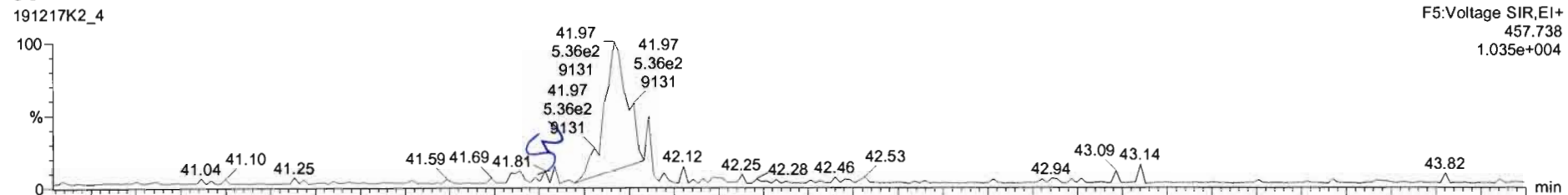
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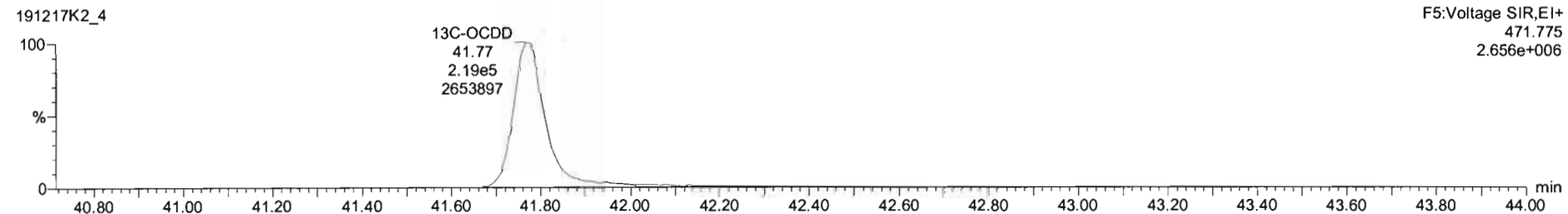
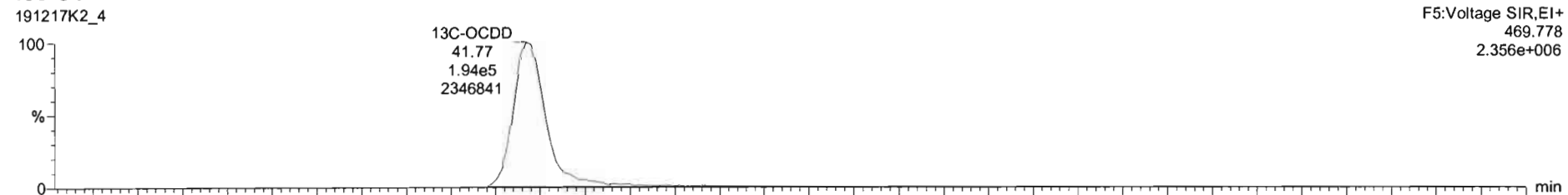
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Name: 191217K2_4, Date: 17-Dec-2019, Time: 16:16:19, ID: B9J0322-BLK1 Method Blank 10, Description: Method Blank

OCDD



13C-OCDD

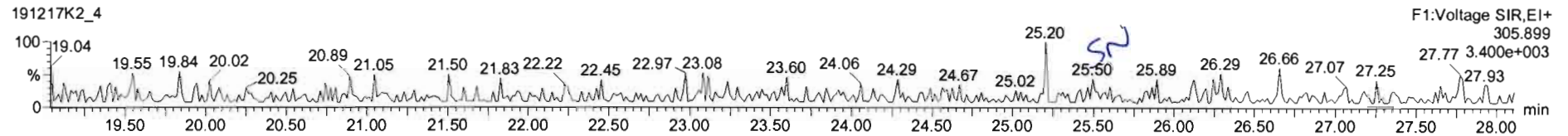
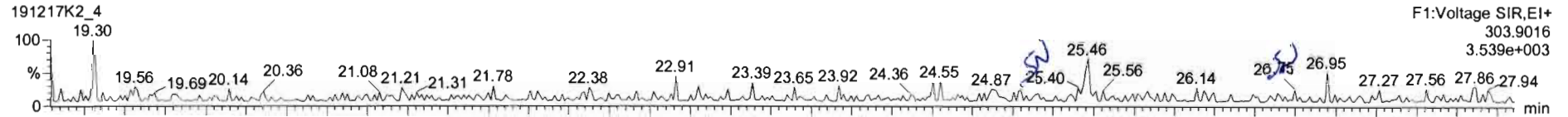


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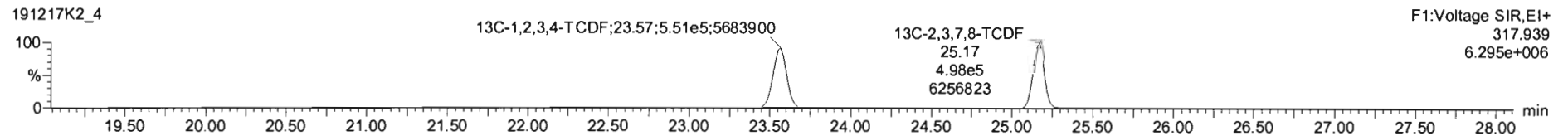
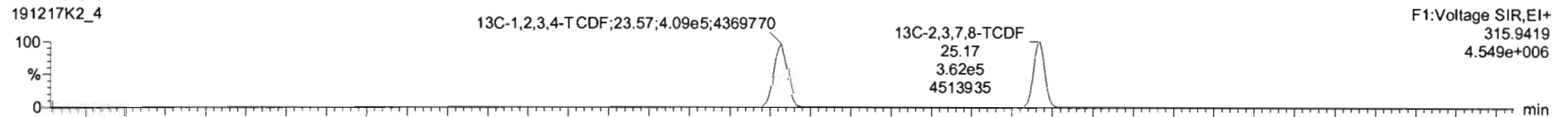
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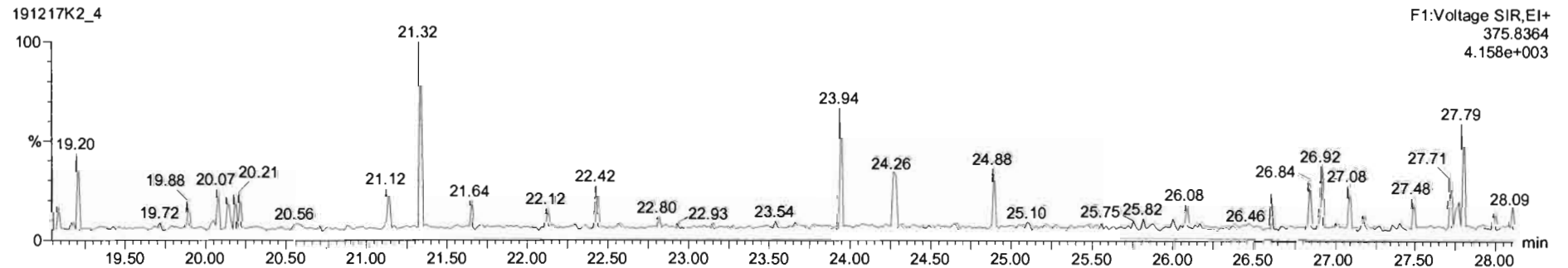
2,3,7,8-TCDF



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



DPE1



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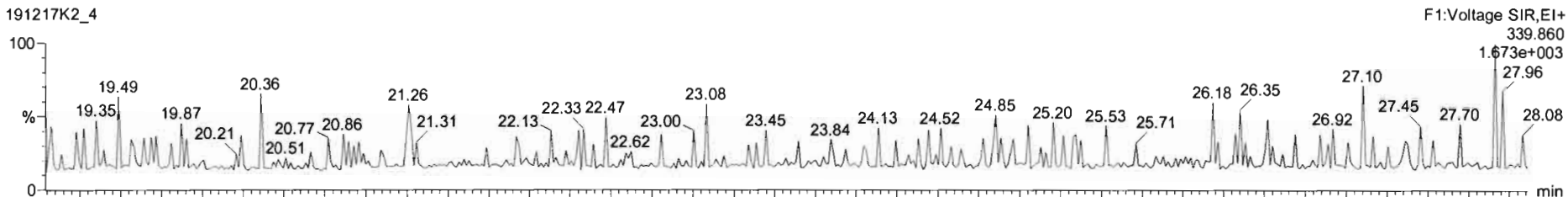
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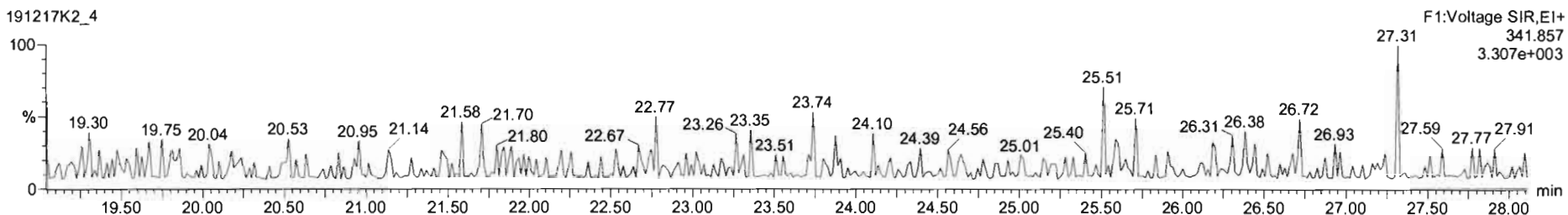
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1st Func. Penta-Furans

191217K2_4

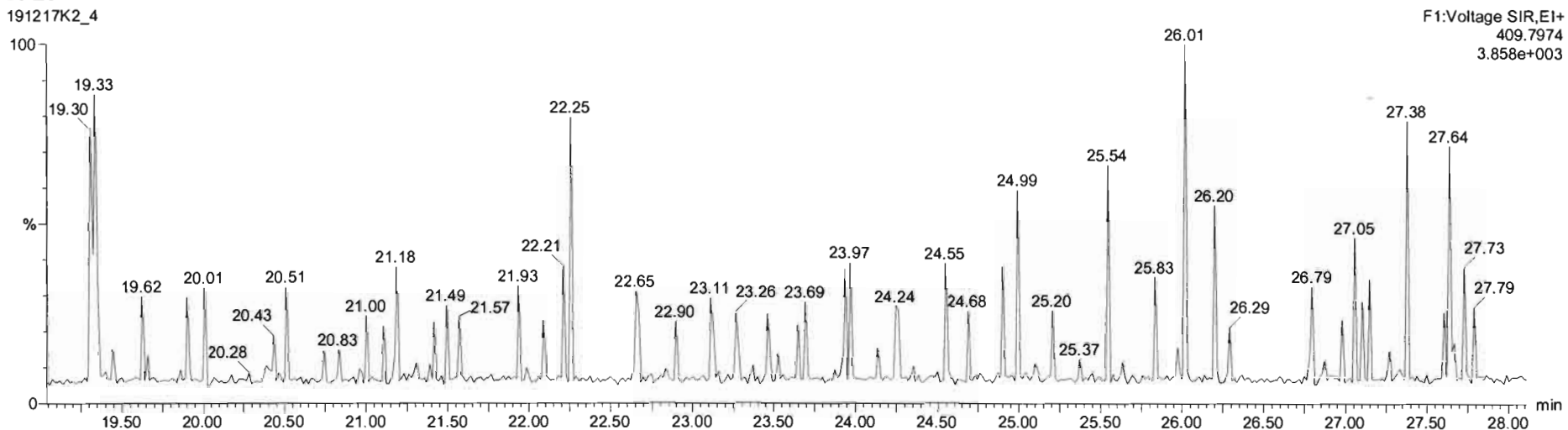


191217K2_4



DPE6

191217K2_4



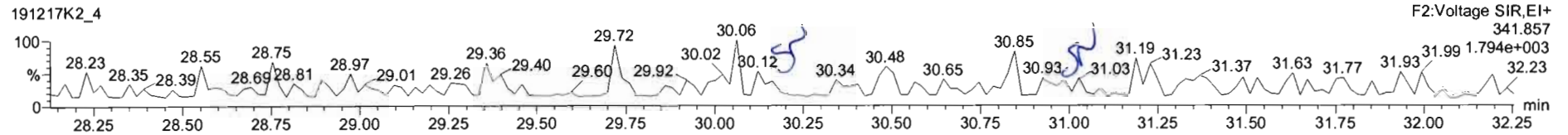
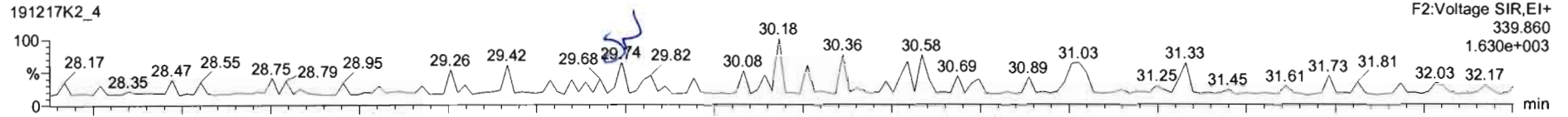
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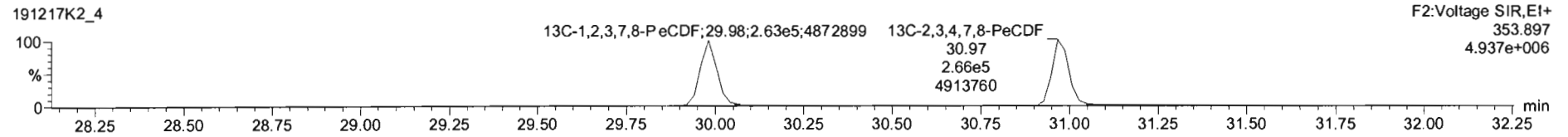
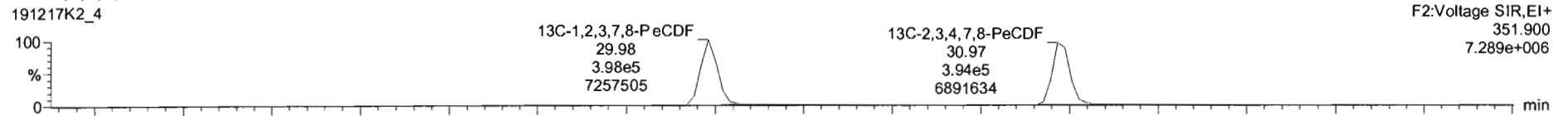
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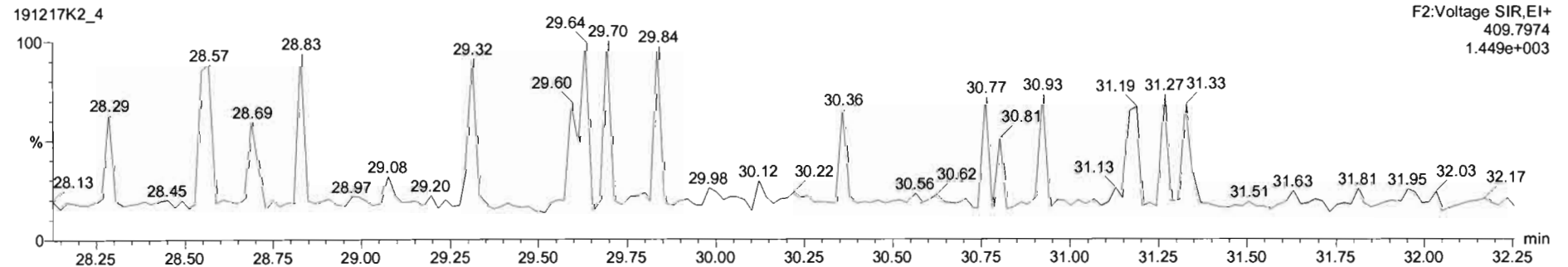
1,2,3,7,8-PeCDF



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



DPE2



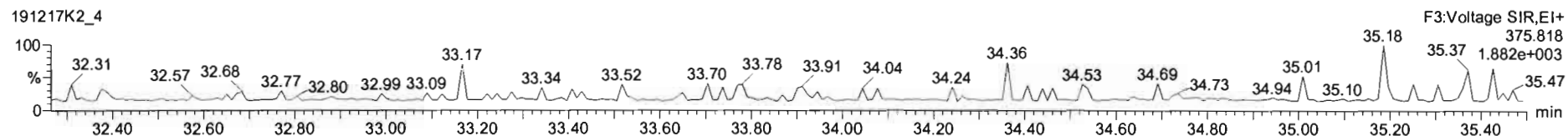
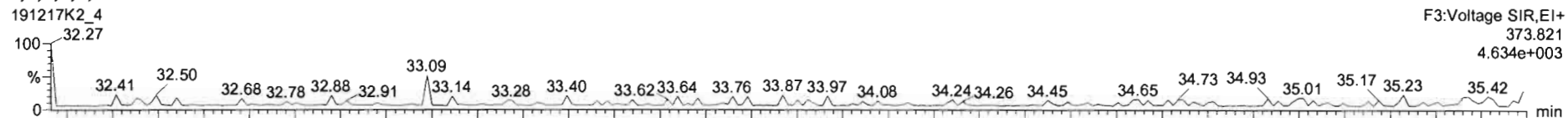
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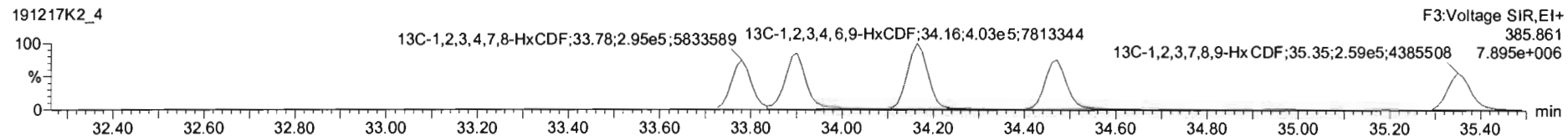
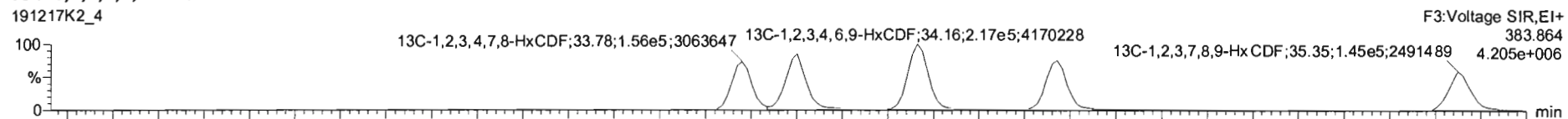
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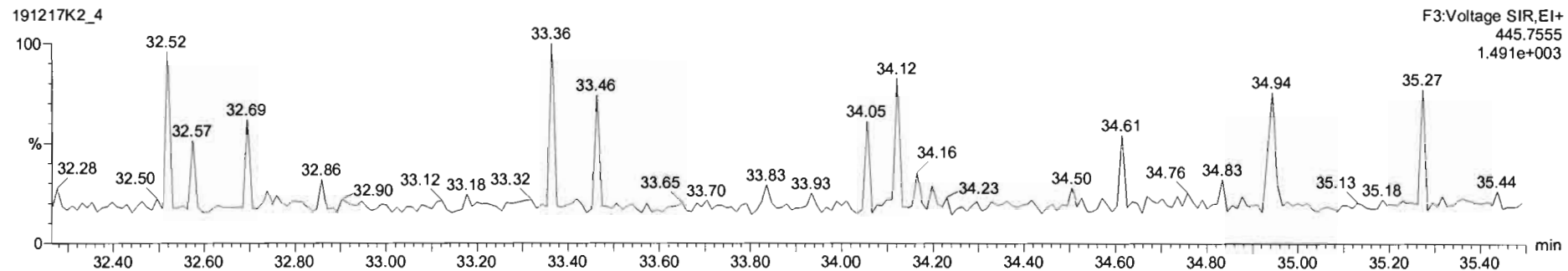
1,2,3,4,7,8-HxCDF



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



DPE3



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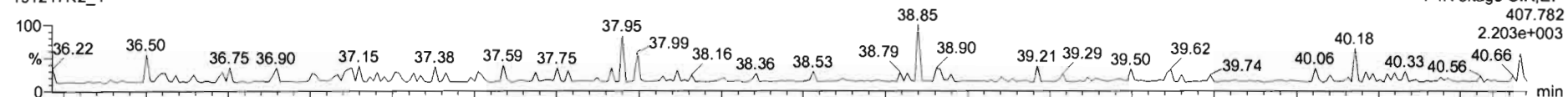
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

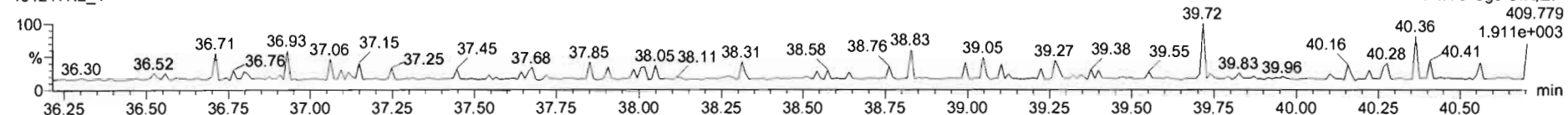
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1,2,3,4,6,7,8-HpCDF

191217K2_4

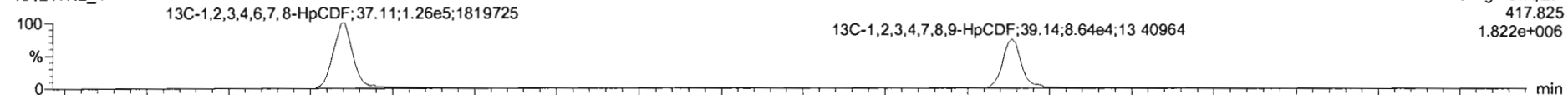


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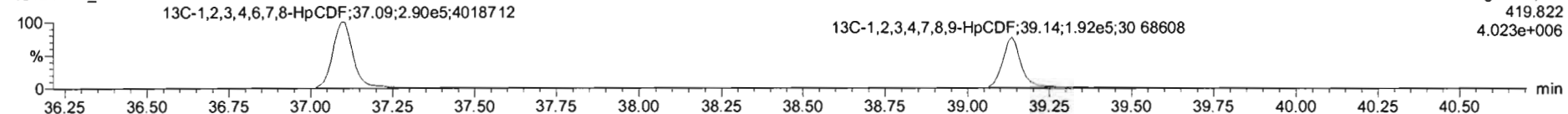


13C-1,2,3,4,6,7,8-HpCDF

191217K2_4

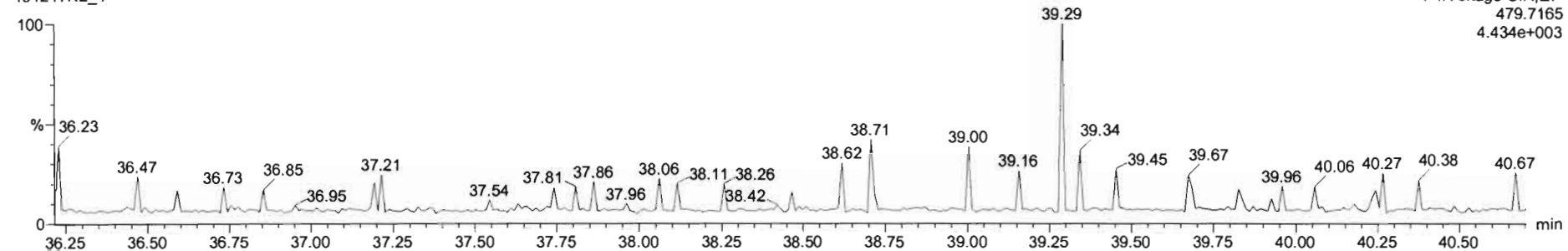


191217K2_4



DPE4

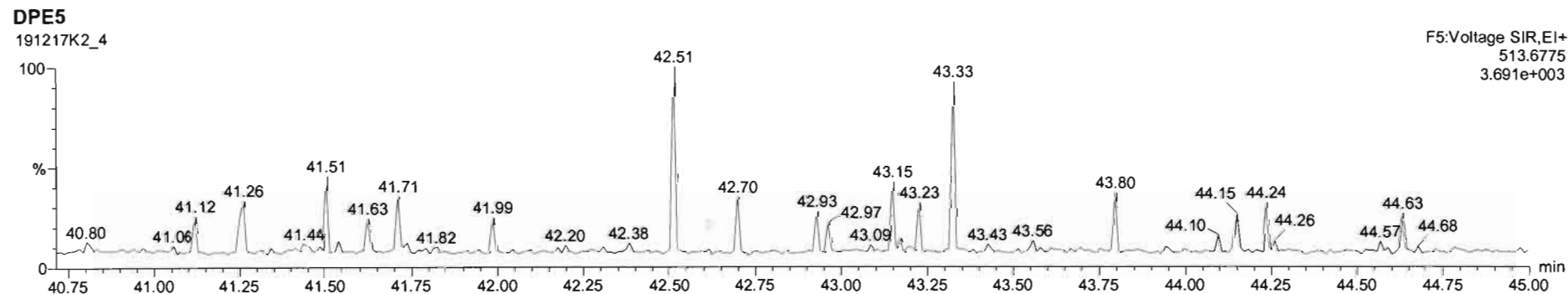
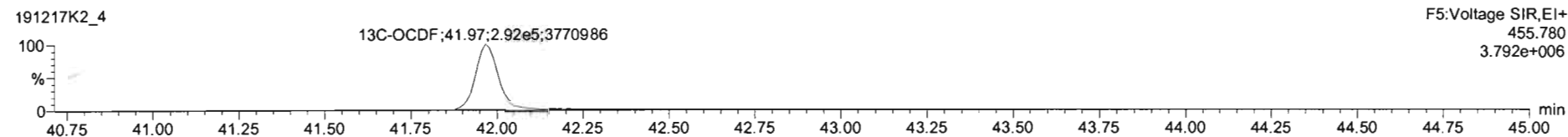
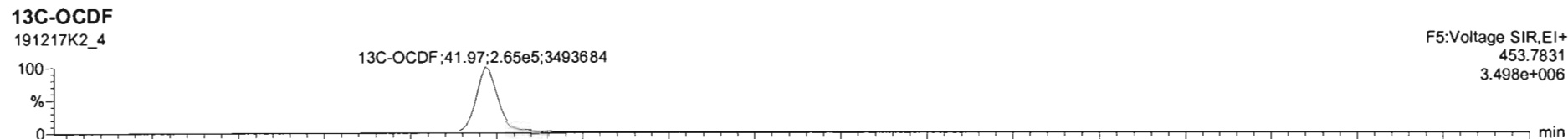
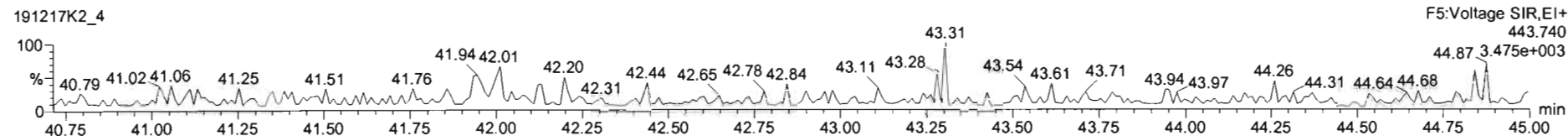
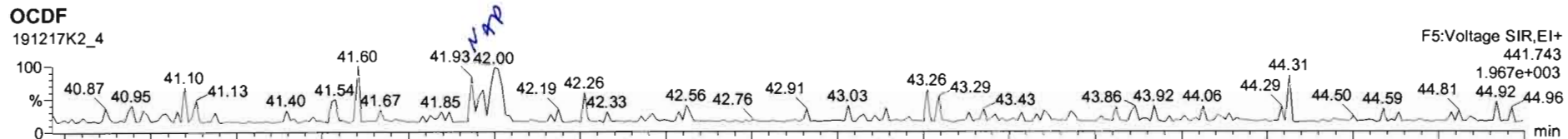
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

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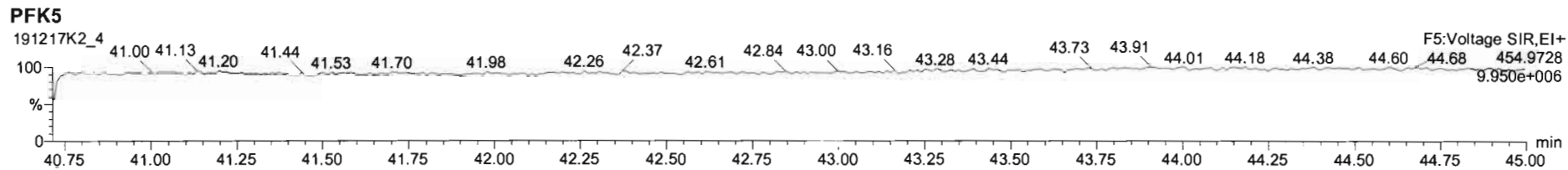
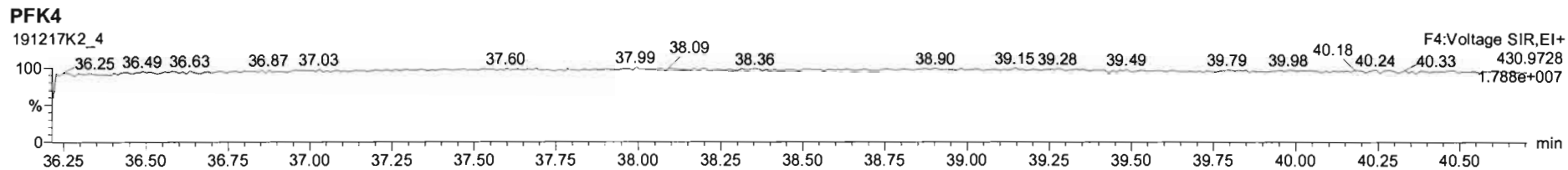
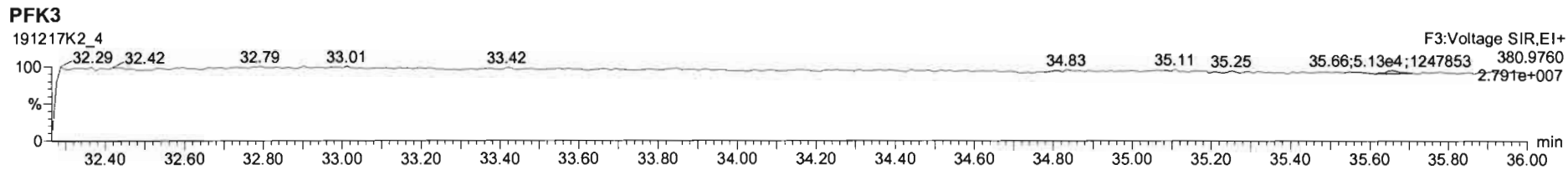
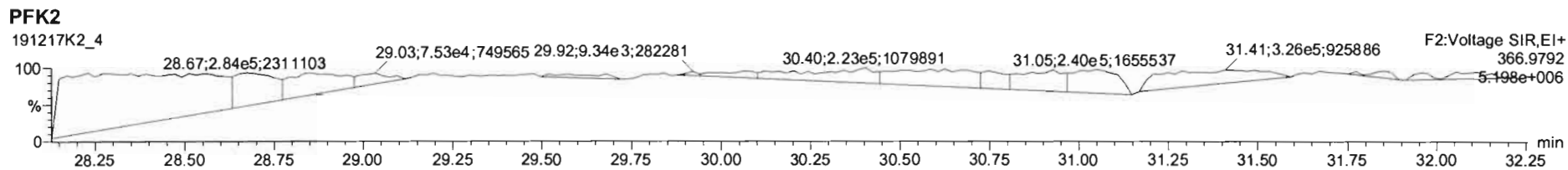
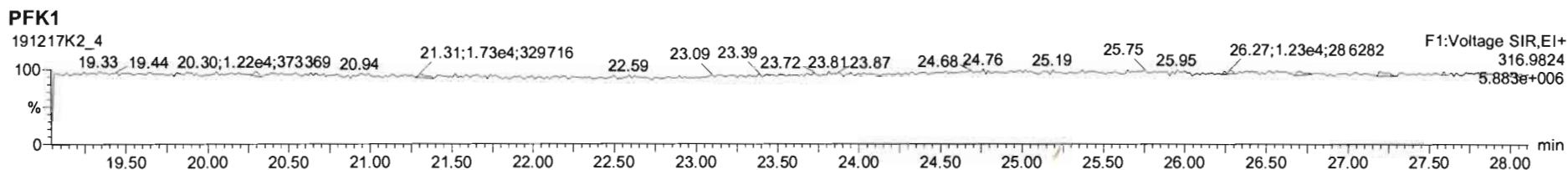


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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

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Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-2.qld

Last Altered: Friday, December 20, 2019 12:13:02 Pacific Standard Time

Printed: Friday, December 20, 2019 12:14:03 Pacific Standard Time

Hc 12-20-19

C7 12/27/19

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Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_2, Date: 17-Dec-2019, Time: 14:39:35, ID: B9J0322-BS1 OPR 10, Description: OPR

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
1	1 2,3,7,8-TCDD	4.73e4	4.97e5	10.0000	0.805	NO	1.001	1.001	26.17	26.17	20.569	20.6	0.190		
2	2 1,2,3,7,8-PeCDD	1.67e5	3.57e5	10.0000	0.635	NO	1.001	1.001	31.31	31.31	103.84	104	0.213		
3	3 1,2,3,4,7,8-HxCDD	1.50e5	2.59e5	10.0000	1.303	NO	1.000	1.000	34.65	34.65	108.70	109	0.462		
4	4 1,2,3,6,7,8-HxCDD	1.68e5	3.07e5	10.0000	1.304	NO	1.000	1.000	34.74	34.75	113.21	113	0.465		
5	5 1,2,3,7,8,9-HxCDD	1.49e5	2.79e5	10.0000	1.290	NO	1.001	1.000	35.04	35.02	109.19	109	0.525		
6	6 1,2,3,4,6,7,8-HpCDD	1.15e5	2.19e5	10.0000	1.052	NO	1.000	1.000	38.53	38.53	100.91	101	0.521		
7	7 OCDD	1.77e5	3.40e5	10.0000	0.901	NO	1.000	1.000	41.77	41.78	214.99	215	0.663		
8	8 2,3,7,8-TCDF	7.06e4	6.79e5	10.0000	0.790	NO	1.001	1.001	25.18	25.19	22.185	22.2	0.118		
9	9 1,2,3,7,8-PeCDF	2.67e5	5.09e5	10.0000	1.607	NO	1.001	1.001	30.00	30.00	107.30	107	0.238		
10	10 2,3,4,7,8-PeCDF	2.69e5	4.84e5	10.0000	1.556	NO	1.001	1.001	31.00	30.99	110.86	111	0.212		
11	11 1,2,3,4,7,8-HxCDF	2.42e5	3.66e5	10.0000	1.244	NO	1.000	1.000	33.77	33.78	106.59	107	0.356		
12	12 1,2,3,6,7,8-HxCDF	2.66e5	4.23e5	10.0000	1.198	NO	1.000	1.000	33.90	33.90	114.76	115	0.356		
13	13 2,3,4,6,7,8-HxCDF	2.58e5	3.98e5	10.0000	1.188	NO	1.001	1.000	34.49	34.47	109.96	110	0.376		
14	14 1,2,3,7,8,9-HxCDF	2.01e5	3.44e5	10.0000	1.248	NO	1.000	1.001	35.34	35.36	109.05	109	0.563		
15	15 1,2,3,4,6,7,8-HpCDF	2.01e5	3.08e5	10.0000	1.072	NO	1.001	1.001	37.12	37.10	115.60	116	0.458		
16	16 1,2,3,4,7,8,9-HpCDF	1.56e5	2.24e5	10.0000	1.060	NO	1.000	1.001	39.12	39.15	110.39	110	0.587		
17	17 OCDF	2.55e5	4.70e5	10.0000	0.877	NO	1.000	1.000	41.97	41.98	197.12	197	0.602		
18	18 13C-2,3,7,8-TCDD	4.97e5	5.39e5	10.0000	0.767	NO	1.027	1.027	26.15	26.14	176.01	88.0	0.521		
19	19 13C-1,2,3,7,8-PeCDD	3.57e5	5.39e5	10.0000	0.636	NO	1.230	1.229	31.29	31.29	178.19	89.1	0.537		
20	20 13C-1,2,3,4,7,8-Hx...	2.59e5	5.27e5	10.0000	1.236	NO	1.014	1.014	34.64	34.64	152.02	76.0	0.555		
21	21 13C-1,2,3,6,7,8-Hx...	3.07e5	5.27e5	10.0000	1.255	NO	1.017	1.017	34.73	34.74	150.26	75.1	0.462		
22	22 13C-1,2,3,7,8,9-Hx...	2.79e5	5.27e5	10.0000	1.242	NO	1.025	1.025	35.01	35.01	160.86	80.4	0.544		
23	23 13C-1,2,3,4,6,7,8-H...	2.19e5	5.27e5	10.0000	1.041	NO	1.127	1.128	38.51	38.52	155.78	77.9	0.605		
24	24 13C-OCDD	3.40e5	5.27e5	10.0000	0.888	NO	1.223	1.223	41.79	41.77	274.21	68.6	0.775		
25	25 13C-2,3,7,8-TCDF	6.79e5	7.92e5	10.0000	0.726	NO	0.989	0.989	25.16	25.16	175.39	87.7	0.695		
26	26 13C-1,2,3,7,8-PeCDF	5.09e5	7.92e5	10.0000	1.521	NO	1.178	1.178	29.98	29.98	165.44	82.7	0.899		
27	27 13C-2,3,4,7,8-PeCDF	4.84e5	7.92e5	10.0000	1.493	NO	1.217	1.217	30.97	30.97	162.99	81.5	0.933		
28	28 13C-1,2,3,4,7,8-Hx...	3.66e5	5.27e5	10.0000	0.518	NO	0.989	0.988	33.77	33.77	164.22	82.1	0.841		
29	29 13C-1,2,3,6,7,8-Hx...	4.23e5	5.27e5	10.0000	0.523	NO	0.992	0.992	33.89	33.89	156.43	78.2	0.692		
30	30 13C-2,3,4,6,7,8-Hx...	3.98e5	5.27e5	10.0000	0.535	NO	1.009	1.009	34.46	34.46	169.30	84.7	0.796		
31	31 13C-1,2,3,7,8,9-Hx...	3.44e5	5.27e5	10.0000	0.513	NO	1.035	1.034	35.37	35.34	177.81	88.9	0.968		
32	32 13C-1,2,3,4,6,7,8-H...	3.08e5	5.27e5	10.0000	0.438	NO	1.085	1.085	37.08	37.08	155.15	77.6	0.612		

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-2.qld

Last Altered: Friday, December 20, 2019 12:13:02 Pacific Standard Time

Printed: Friday, December 20, 2019 12:14:03 Pacific Standard Time

Name: 191217K2_2, Date: 17-Dec-2019, Time: 14:39:35, ID: B9J0322-BS1 OPR 10, Description: OPR

#	Name	Area	IS Area	Wt./Vol.	RRF	RA	Y/N	Pred...	RRT	Pred.RT	RT	Conc.	%Rec	EMPC	DL
33	33 13C-1,2,3,4,7,8,9-H...	2.24e5	5.27e5	10.0000		0.435	NO	1.145	1.145	39.11	39.12	157.56	78.8		0.856
34	34 13C-OCDF	4.70e5	5.27e5	10.0000		0.892	NO	1.229	1.228	41.97	41.97	301.16	75.3		0.545
35	35 37Cl-2,3,7,8-TCDD	1.75e5	5.39e5	10.0000				1.028	1.028	26.17	26.17	60.727	75.9		0.0893
36	36 13C-1,2,3,4-TCDD	5.39e5	5.39e5	10.0000		0.795	NO	1.000	1.000	25.45	25.45	200.00	100.0		0.547
37	37 13C-1,2,3,4-TCDF	7.92e5	7.92e5	10.0000		0.726	NO	1.000	1.000	23.55	23.55	200.00	100.0		0.679
38	38 13C-1,2,3,4,6,9-Hx...	5.27e5	5.27e5	10.0000		0.520	NO	1.000	1.000	34.16	34.16	200.00	100.0		0.711

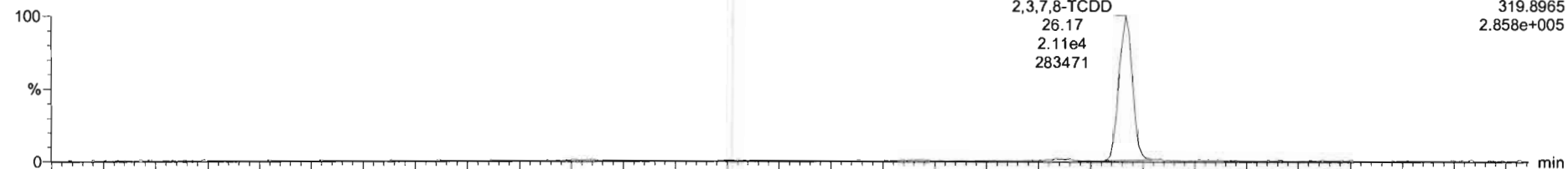
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

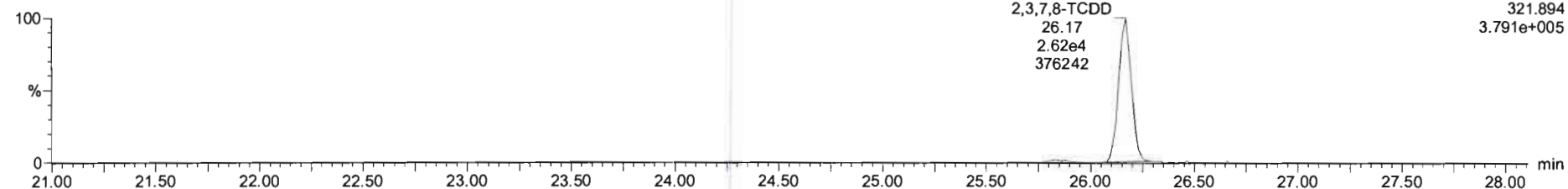
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2,3,7,8-TCDD

191217K2_2

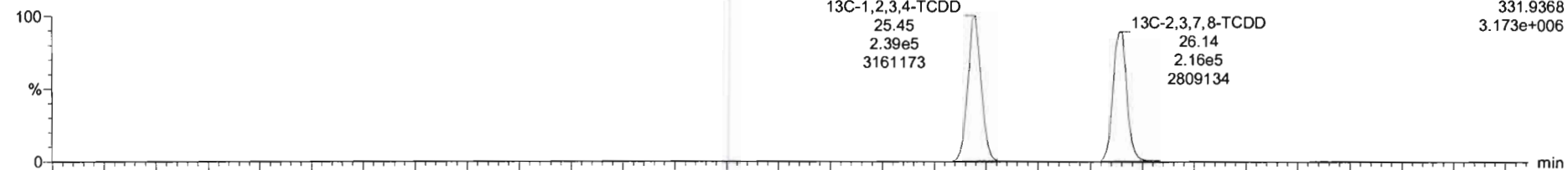


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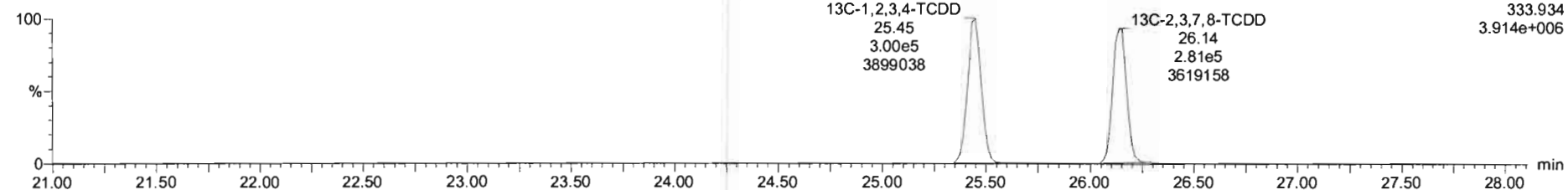


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191217K2_2



191217K2_2



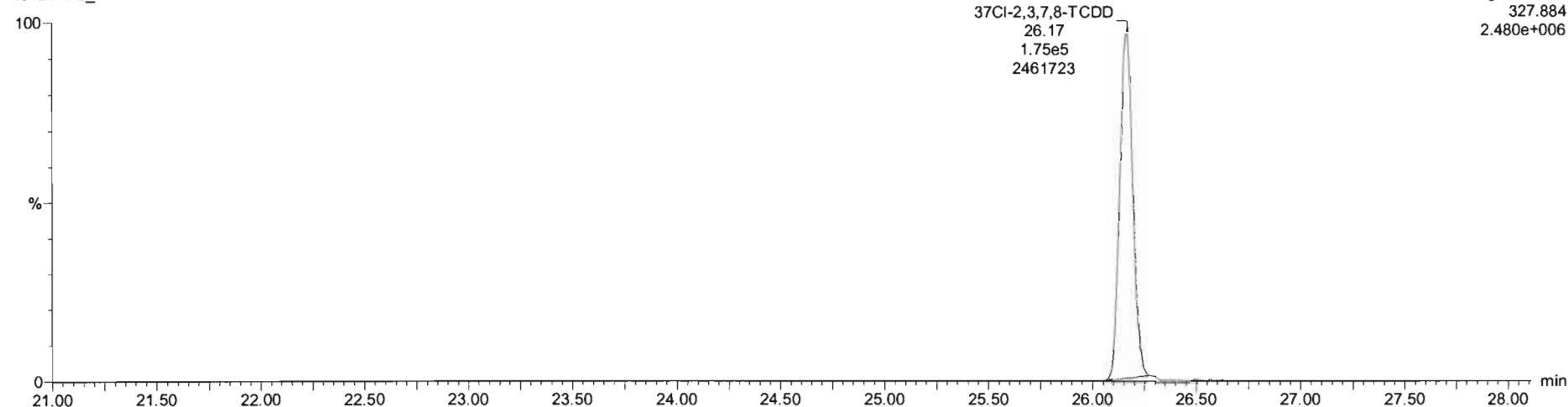
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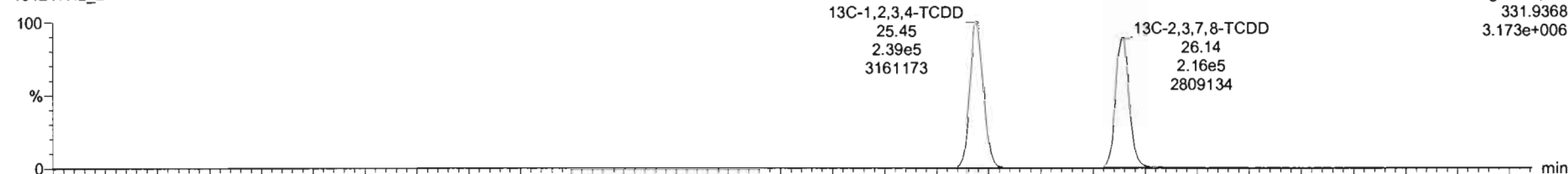
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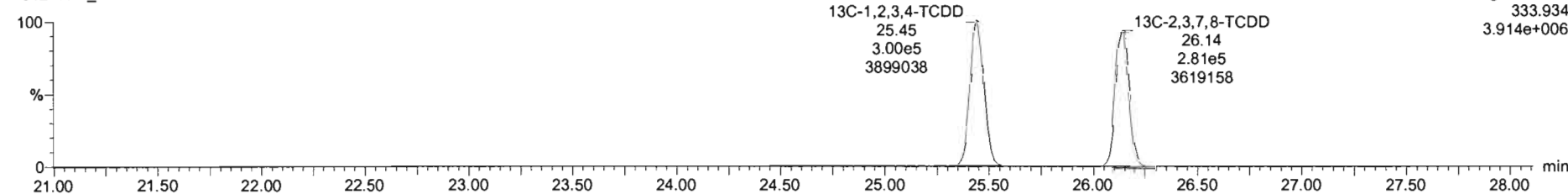


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191217K2_2



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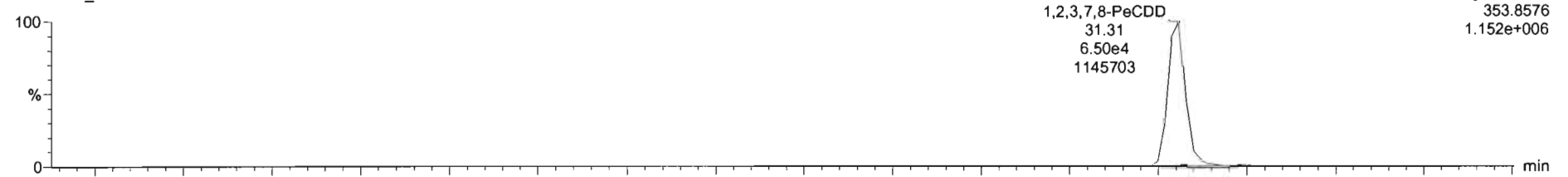
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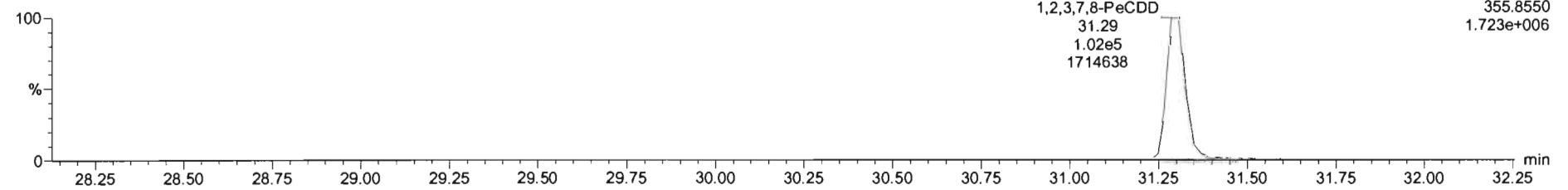
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1,2,3,7,8-PeCDD

191217K2_2

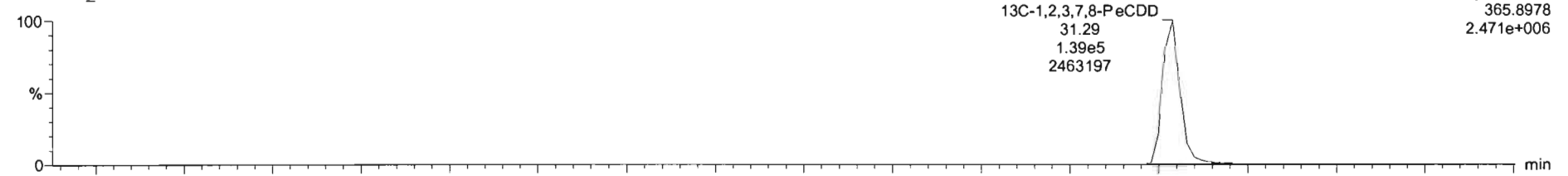


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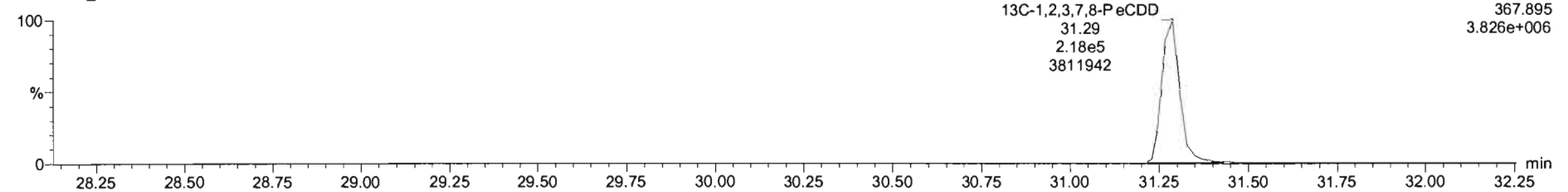


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191217K2_2



191217K2_2



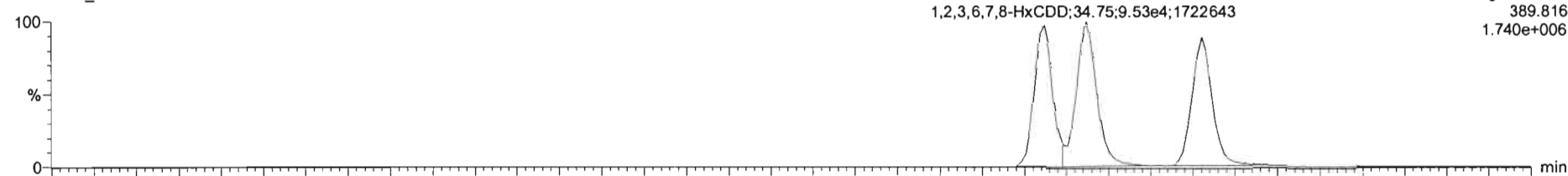
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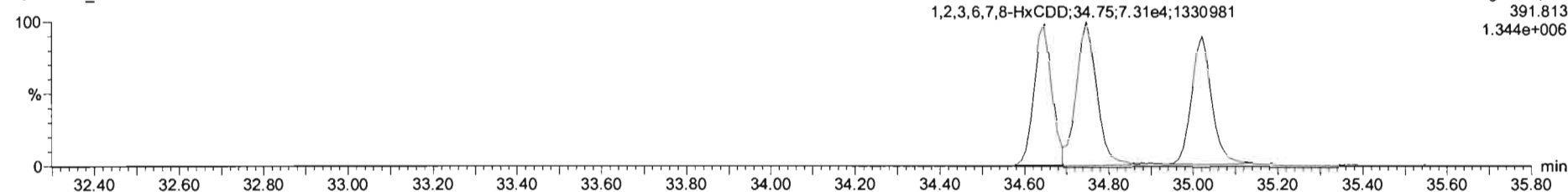
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1,2,3,4,7,8-HxCDD

191217K2_2



191217K2_2

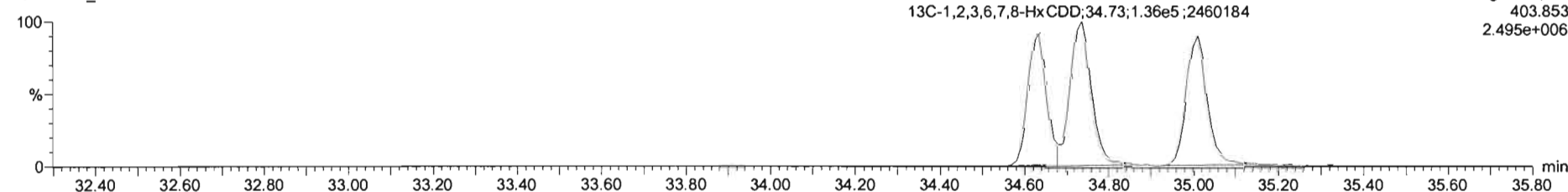


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191217K2_2



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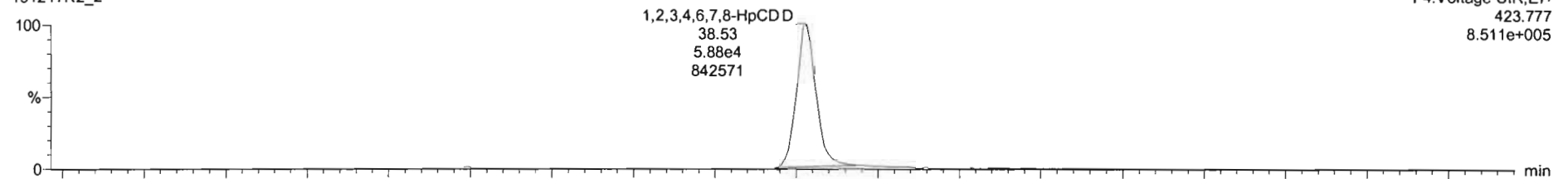
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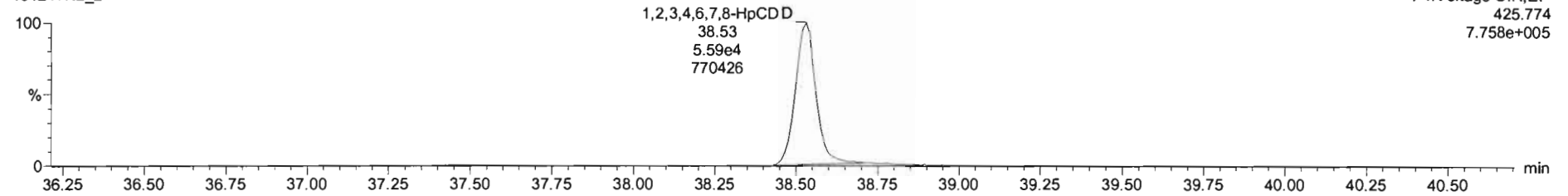
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1,2,3,4,6,7,8-HpCDD

191217K2_2

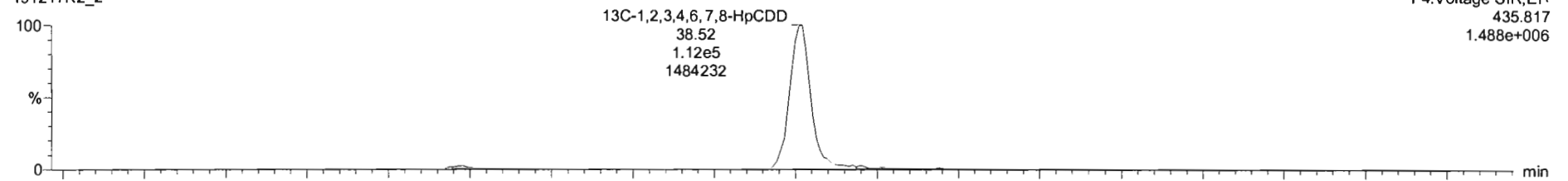


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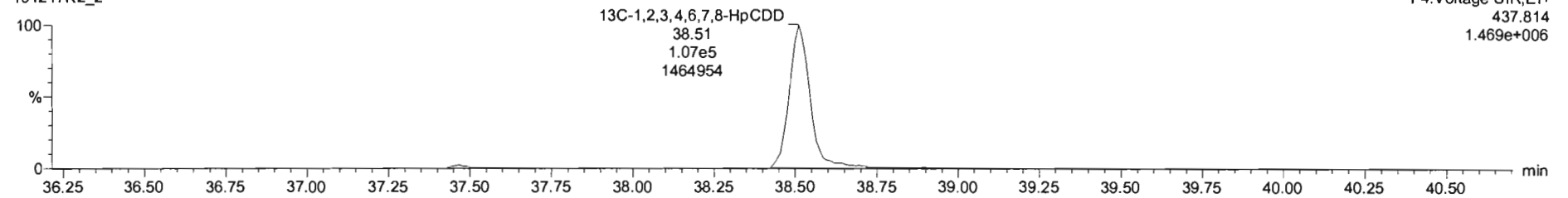


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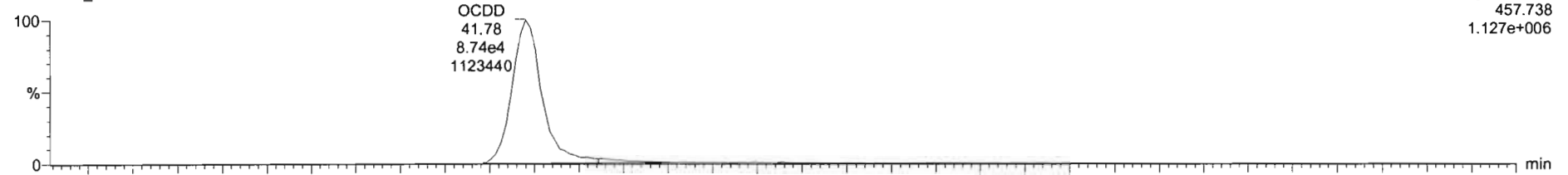
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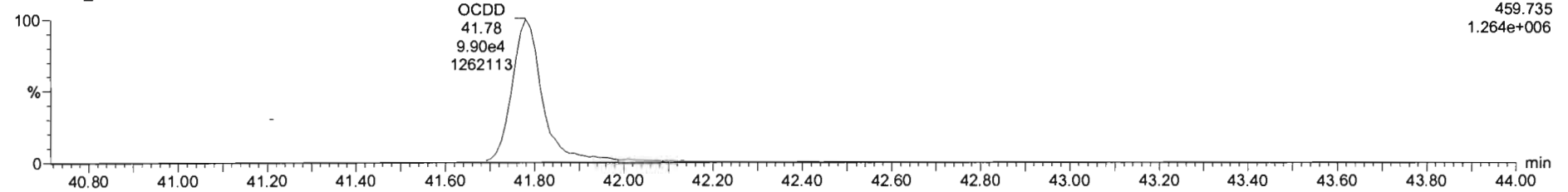
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OCDD

191217K2_2

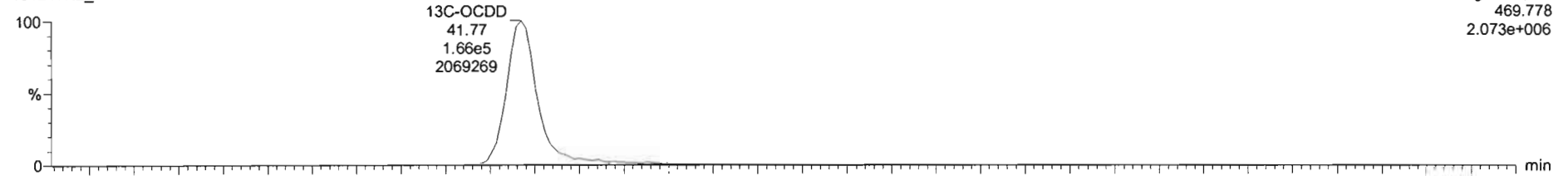


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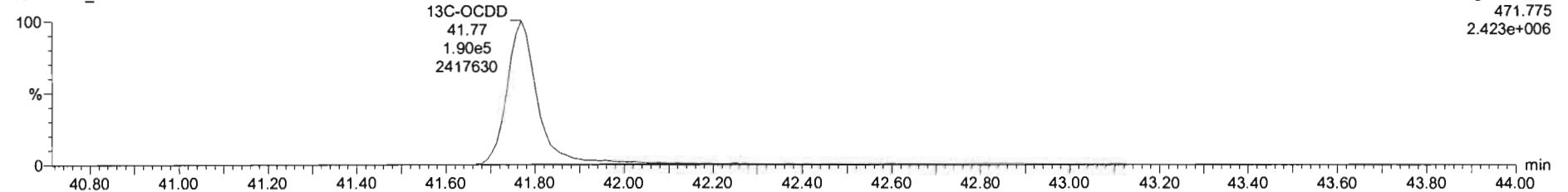


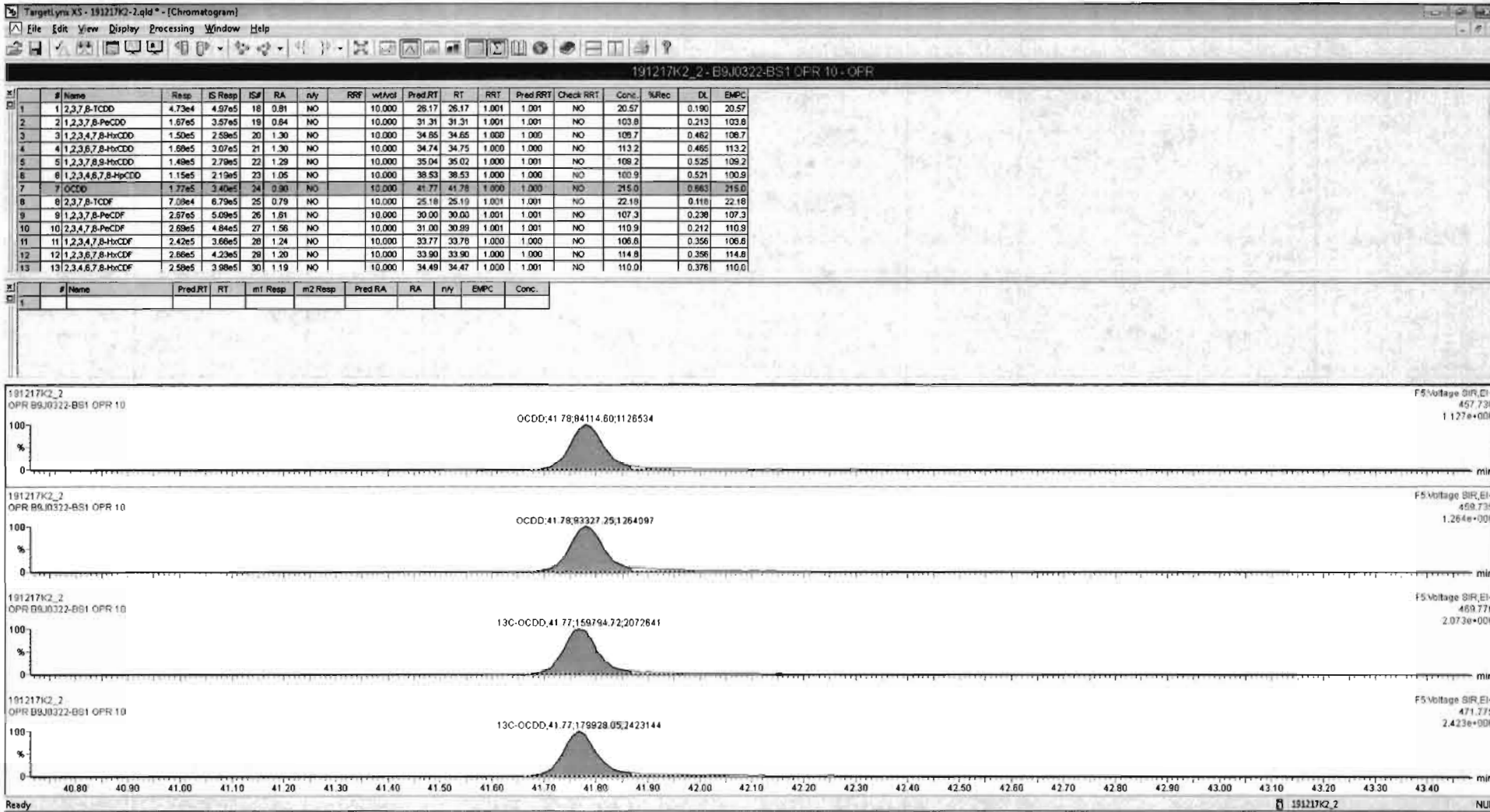
13C-OCDD

191217K2_2



191217K2_2





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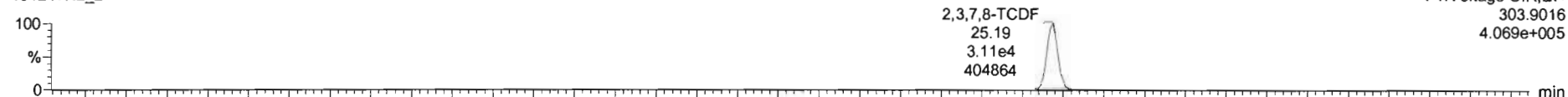
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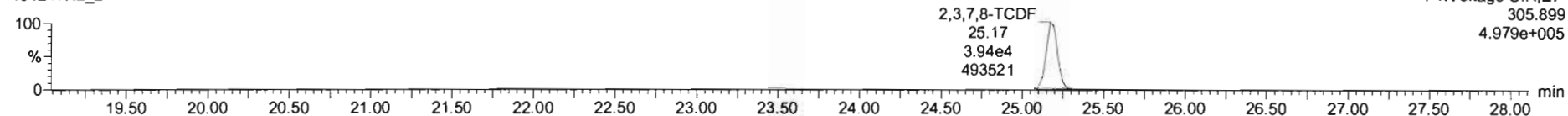
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2,3,7,8-TCDF

191217K2_2

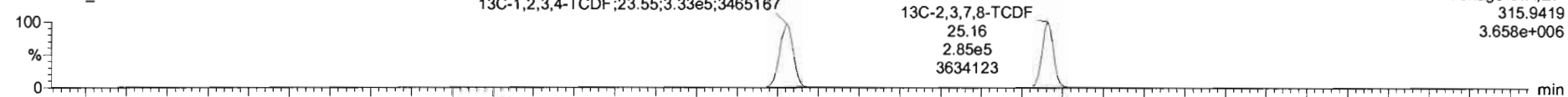


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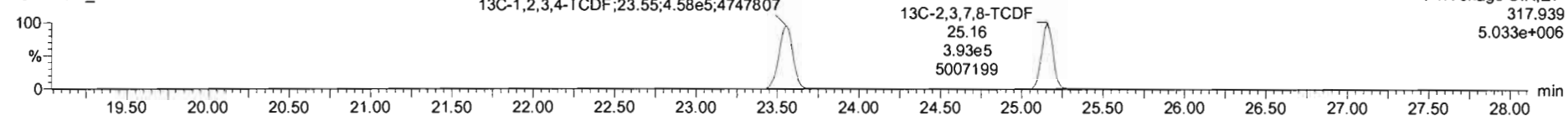


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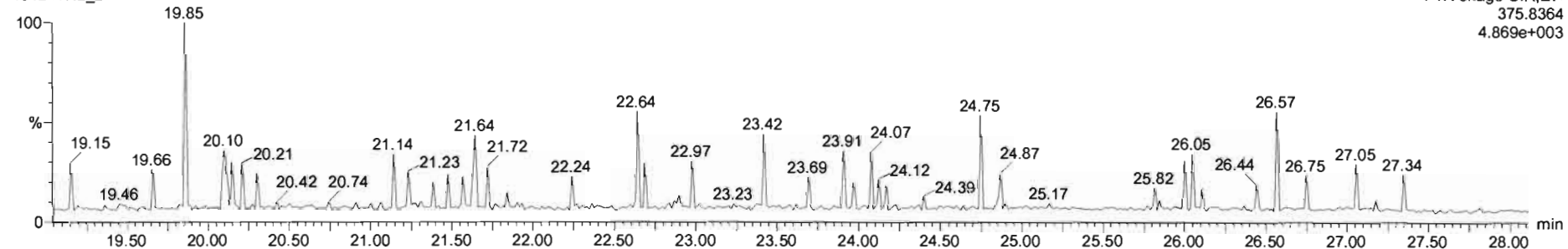


191217K2_2



DPE1

191217K2_2



Dataset: Untitled

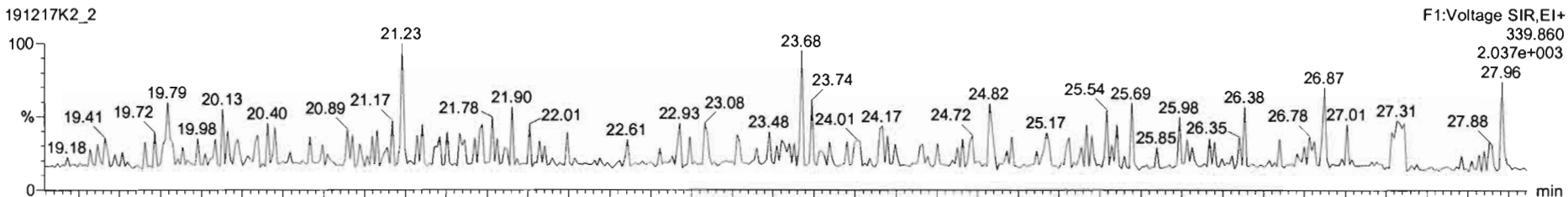
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

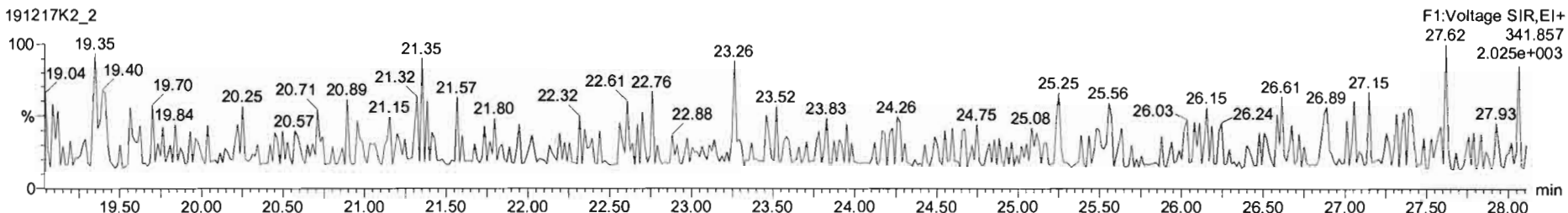
Name: 191217K2_2, Date: 17-Dec-2019, Time: 14:39:35, ID: B9J0322-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans

191217K2_2

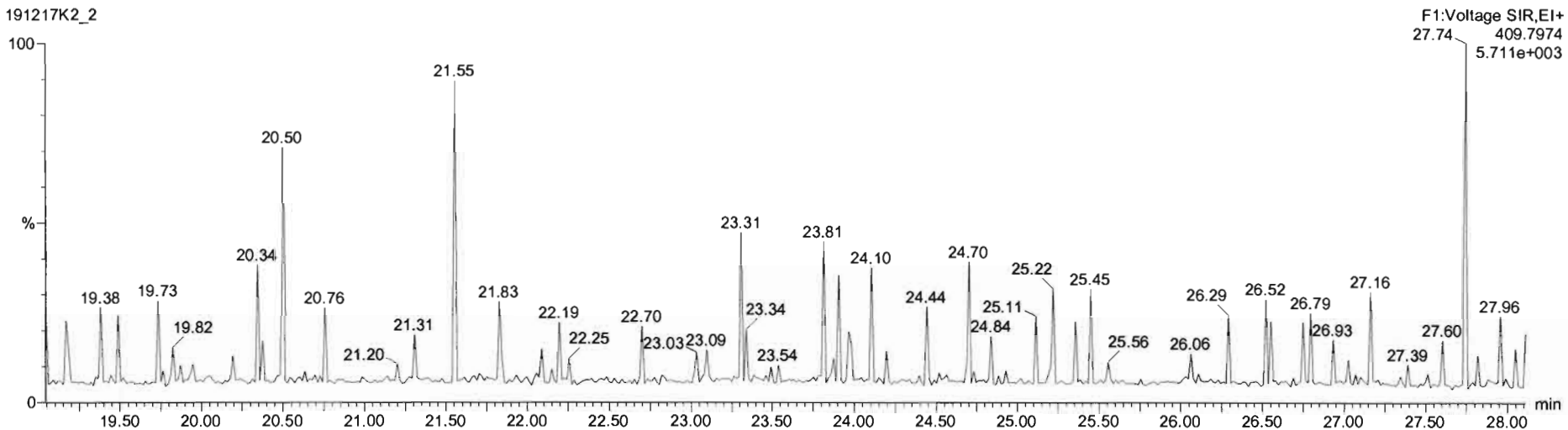


191217K2_2



DPE6

191217K2_2



Dataset: Untitled

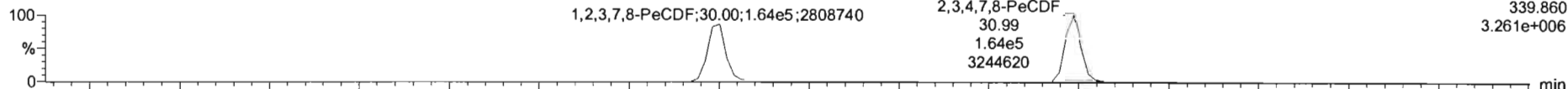
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

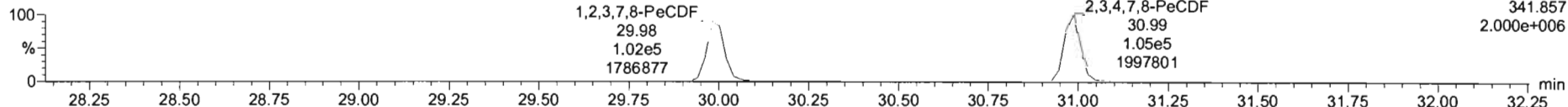
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1,2,3,7,8-PeCDF

191217K2_2

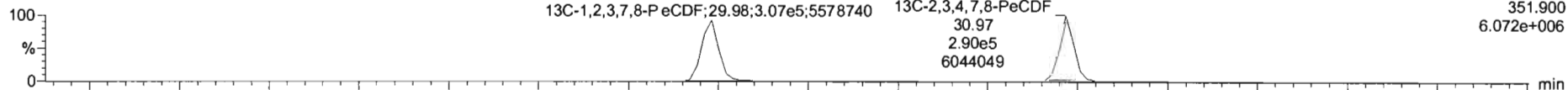


191217K2_2

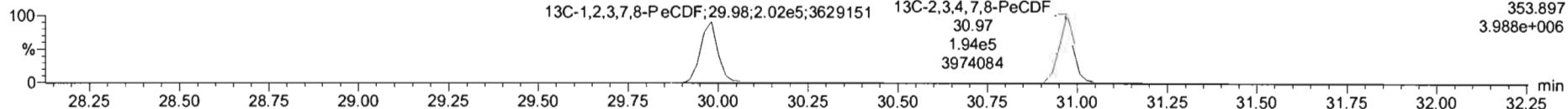


13C-1,2,3,7,8-PeCDF

191217K2_2

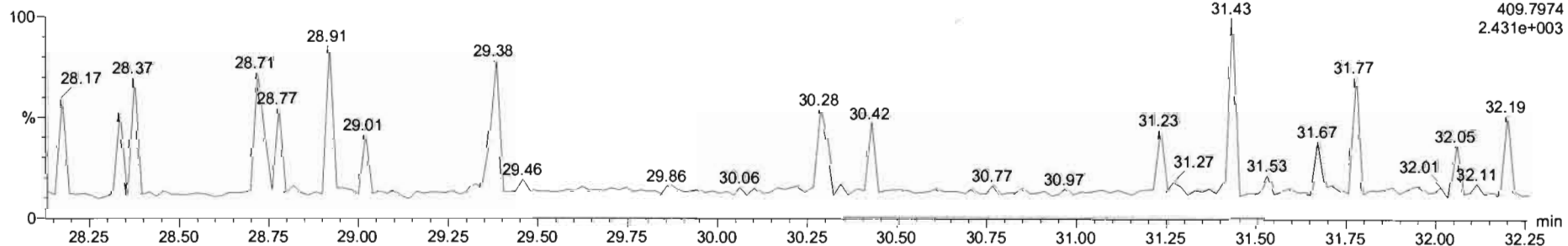


191217K2_2



DPE2

191217K2_2



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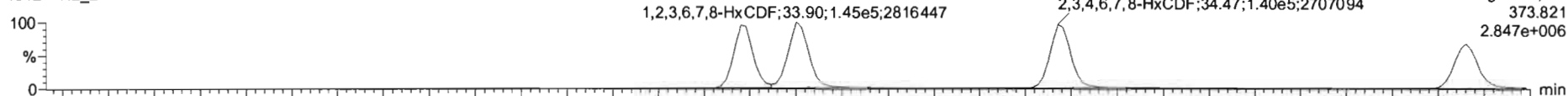
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

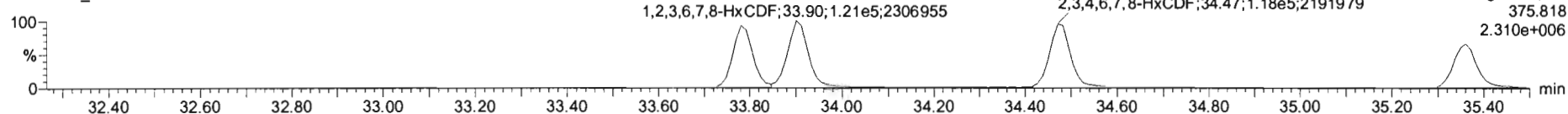
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1,2,3,4,7,8-HxCDF

191217K2_2

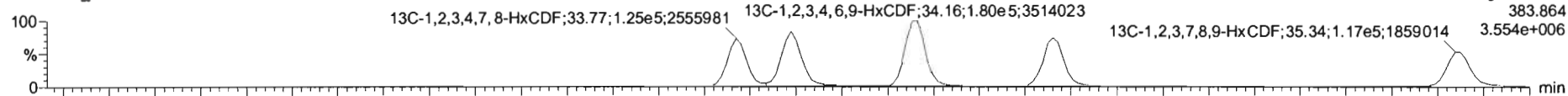


191217K2_2

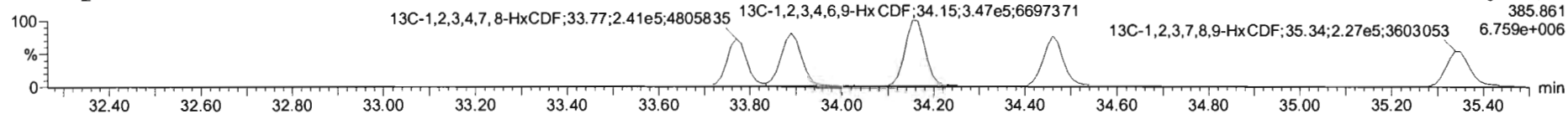


13C-1,2,3,4,7,8-HxCDF

191217K2_2

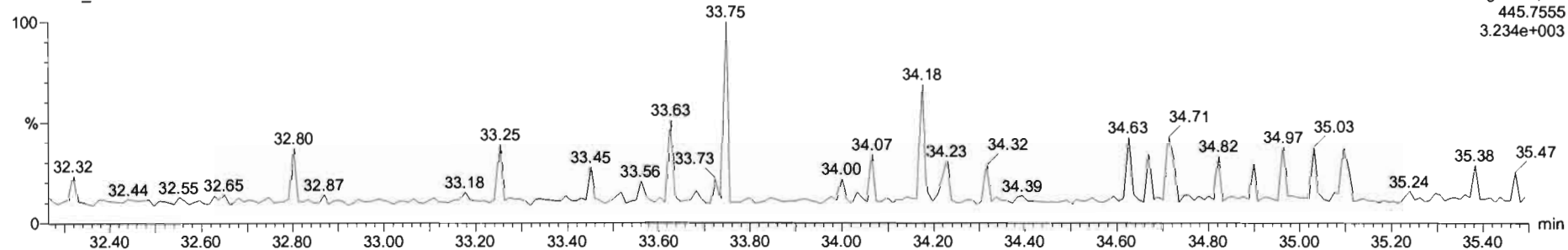


191217K2_2



DPE3

191217K2_2



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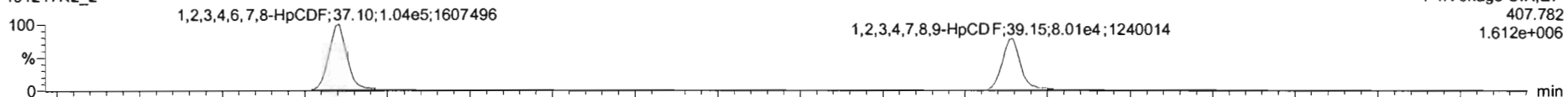
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_2, Date: 17-Dec-2019, Time: 14:39:35, ID: B9J0322-BS1 OPR 10, Description: OPR

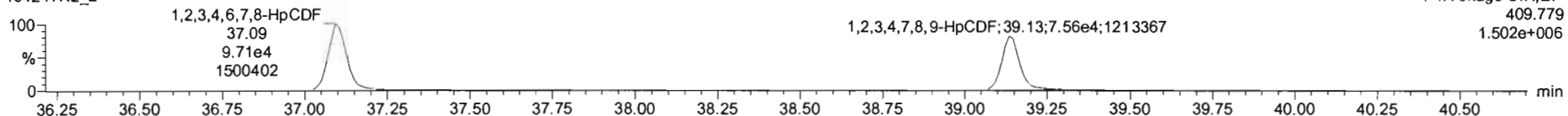
1,2,3,4,6,7,8-HpCDF

191217K2_2



F4:Voltage SIR,EI+
407.782
1.612e+006

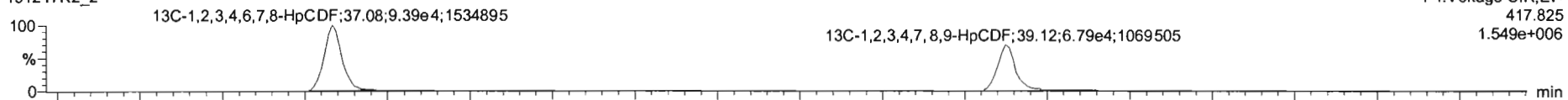
191217K2_2



F4:Voltage SIR,EI+
409.779
1.502e+006

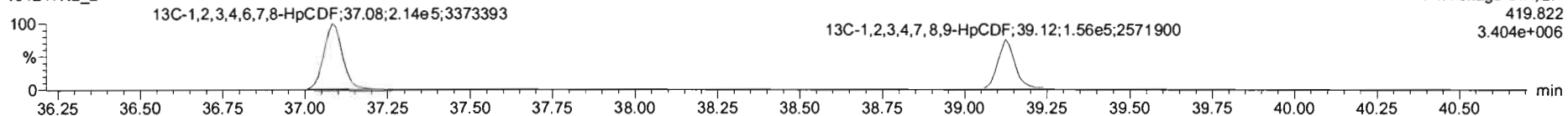
13C-1,2,3,4,6,7,8-HpCDF

191217K2_2



F4:Voltage SIR,EI+
417.825
1.549e+006

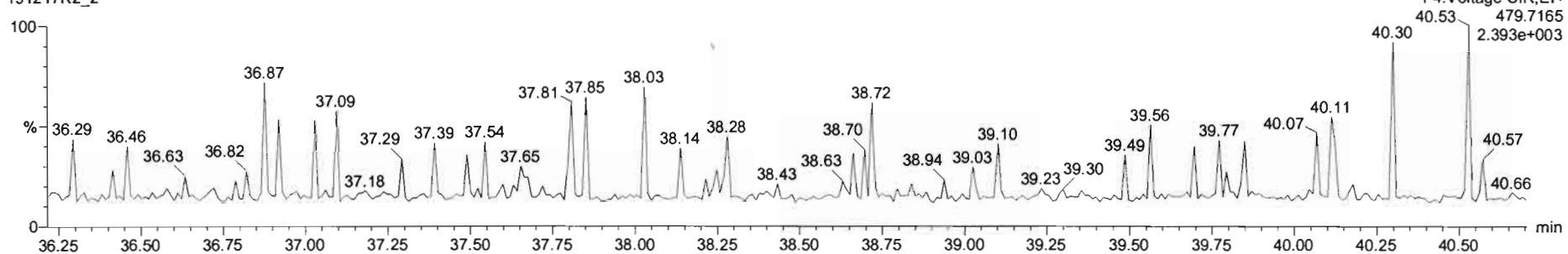
191217K2_2



F4:Voltage SIR,EI+
419.822
3.404e+006

DPE4

191217K2_2



F4:Voltage SIR,EI+
479.7165
2.393e+003

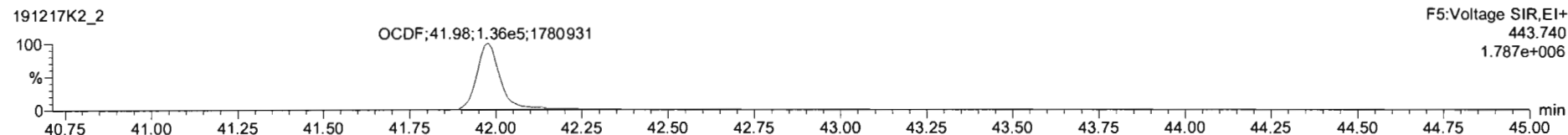
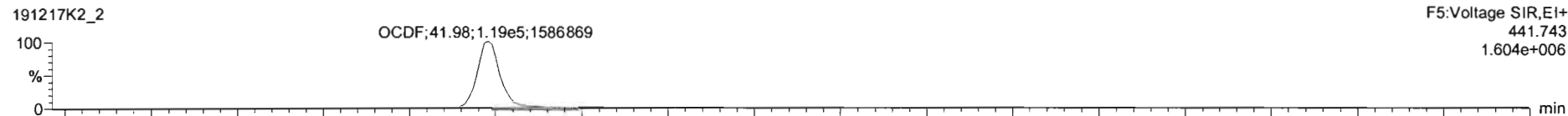
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

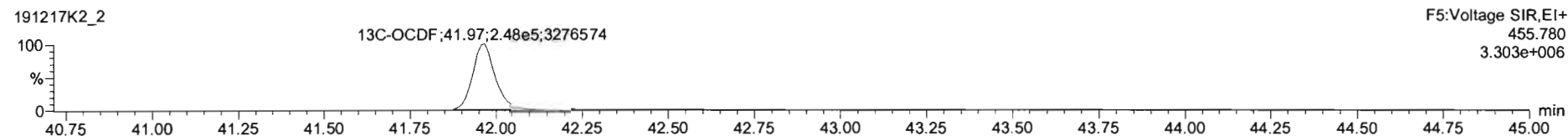
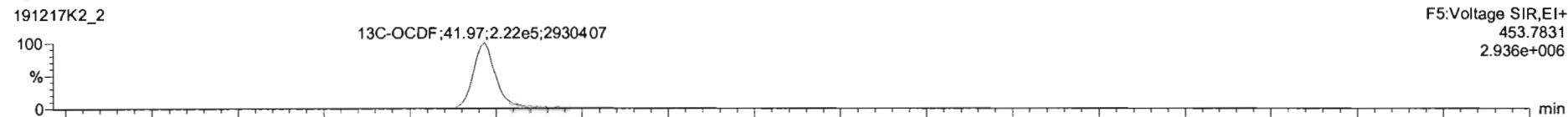
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_2, Date: 17-Dec-2019, Time: 14:39:35, ID: B9J0322-BS1 OPR 10, Description: OPR

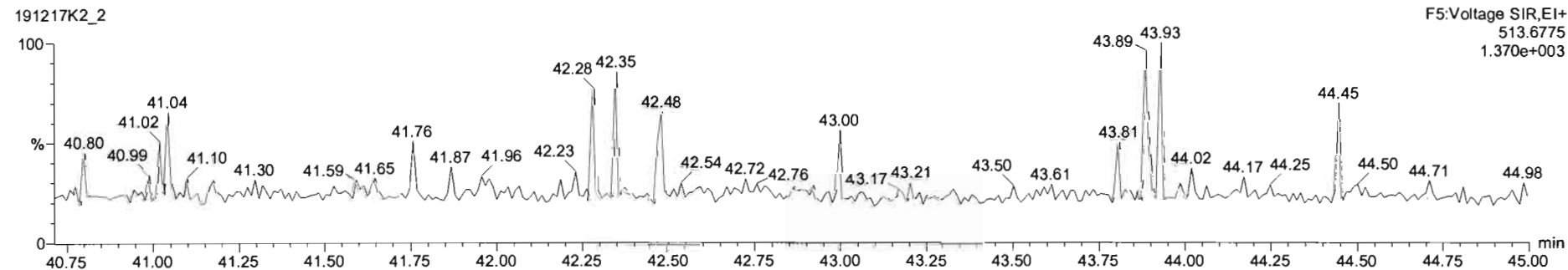
OCDF



13C-OCDF



DPE5

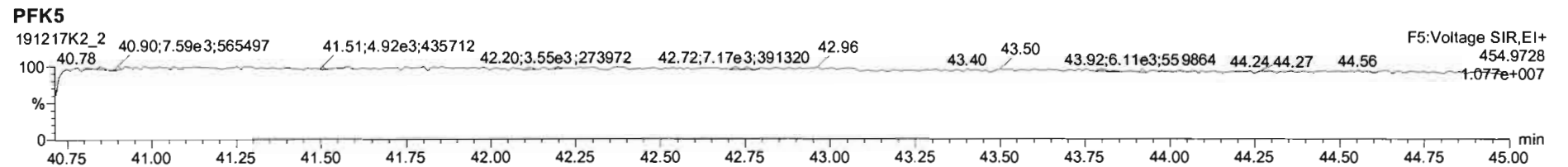
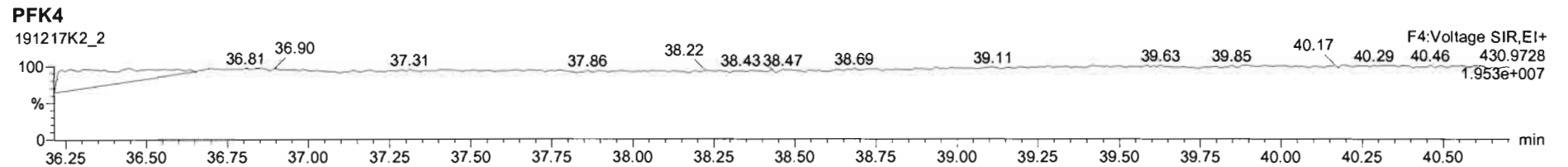
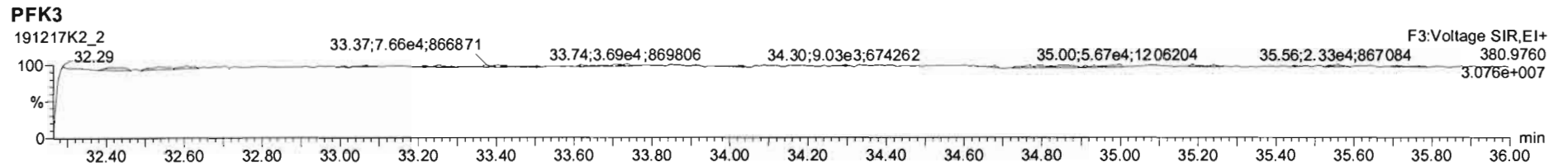
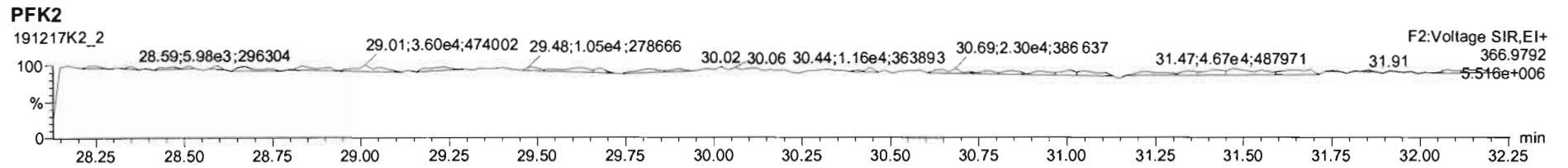
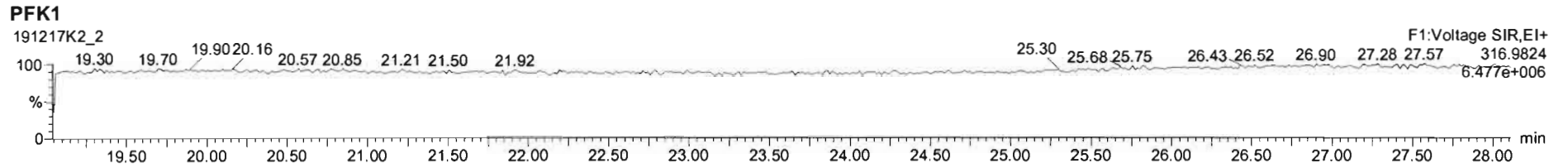


Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_2, Date: 17-Dec-2019, Time: 14:39:35, ID: B9J0322-BS1 OPR 10, Description: OPR



Dataset: U:\VG11.PRO\Results\191217K2\191217K2-9.qld

Last Altered: Thursday, December 26, 2019 16:44:03 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:27:12 Pacific Standard Time

EL 12/26/19

GT 12/27/19

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.925	10.015	26.18		1.00		YES			0.140	
2	2 1,2,3,7,8-PeCDD				0.905	10.015	31.31		1.00		YES			0.114	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.015	34.66		1.00		YES			0.141	
4	4 1,2,3,6,7,8-HxCDD				0.967	10.015	34.75		1.00		YES			0.149	
5	5 1,2,3,7,8,9-HxCDD				0.978	10.015	35.06		1.00		YES			0.166	
6	6 1,2,3,4,6,7,8-HpCDD	2975.235	1.021	NO	1.04	10.015	38.54	38.54	1.00	1.00	NO	1.862		0.215	1.862
7	7 OCDD	12680.389	0.861	NO	0.972	10.015	41.80	41.81	1.00	1.00	NO	14.88		0.415	14.88
8	8 2,3,7,8-TCDF				0.938	10.015	25.20		1.00		YES			0.123	
9	9 1,2,3,7,8-PeCDF				0.976	10.015	30.00		1.00		YES			0.0698	
10	10 2,3,4,7,8-PeCDF				1.00	10.015	31.02		1.00		YES			0.0658	
11	11 1,2,3,4,7,8-HxCDF				1.24	10.015	33.78		1.00		YES			0.0630	
12	12 1,2,3,6,7,8-HxCDF				1.10	10.015	33.91		1.00		YES			0.0637	
13	13 2,3,4,6,7,8-HxCDF				1.18	10.015	34.51		1.00		YES			0.0712	
14	14 1,2,3,7,8,9-HxCDF				1.07	10.015	35.35		1.00		YES			0.0941	
15	15 1,2,3,4,6,7,8-HpCDF	517.924	1.681	YES	1.13	10.015	37.14	37.12	1.00	1.00	NO	0.2247		0.0765	0.1710
16	16 1,2,3,4,7,8,9-HpCDF				1.26	10.015	39.15		1.00		YES			0.0914	
17	17 OCDF				1.10	10.015	42.00		1.00		YES			0.170	
18	18 13C-2,3,7,8-TCDD	676482.501	0.799	NO	1.05	10.015	26.15	26.15	1.03	1.03	NO	195.5	97.9	0.437	
19	19 13C-1,2,3,7,8-PeCDD	486277.266	0.615	NO	0.743	10.015	31.29	31.29	1.23	1.23	NO	198.4	99.4	0.613	
20	20 13C-1,2,3,4,7,8-HxCDD	348431.063	1.234	NO	0.646	10.015	34.64	34.65	1.01	1.01	NO	156.2	78.2	0.508	
21	21 13C-1,2,3,6,7,8-HxCDD	427607.281	1.222	NO	0.777	10.015	34.73	34.75	1.02	1.02	NO	159.5	79.9	0.423	
22	22 13C-1,2,3,7,8,9-HxCDD	368886.531	1.181	NO	0.659	10.015	35.01	35.02	1.02	1.03	NO	162.0	81.1	0.498	
23	23 13C-1,2,3,4,6,7,8-HpCDD	307602.172	1.062	NO	0.534	10.015	38.51	38.53	1.13	1.13	NO	166.8	83.5	0.643	
24	24 13C-OCDD	350236.328	0.901	NO	0.470	10.015	41.79	41.80	1.22	1.22	NO	215.7	54.0	0.681	
25	25 13C-2,3,7,8-TCDF	919094.844	0.719	NO	0.977	10.015	25.16	25.17	0.99	0.99	NO	199.5	99.9	0.580	
26	26 13C-1,2,3,7,8-PeCDF	675347.938	1.513	NO	0.778	10.015	29.98	29.98	1.18	1.18	NO	184.3	92.3	0.659	
27	27 13C-2,3,4,7,8-PeCDF	672575.751	1.508	NO	0.750	10.015	30.97	30.99	1.22	1.22	NO	190.3	95.3	0.683	
28	28 13C-1,2,3,4,7,8-HxCDF	502405.578	0.514	NO	0.845	10.015	33.77	33.78	0.99	0.99	NO	172.2	86.2	0.824	
29	29 13C-1,2,3,6,7,8-HxCDF	589544.875	0.520	NO	1.03	10.015	33.89	33.90	0.99	0.99	NO	166.3	83.3	0.678	
30	30 13C-2,3,4,6,7,8-HxCDF	510784.719	0.526	NO	0.893	10.015	34.46	34.47	1.01	1.01	NO	165.7	83.0	0.780	

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-9.qld

Last Altered: Thursday, December 26, 2019 16:44:03 Pacific Standard Time
Printed: Thursday, December 26, 2019 17:27:12 Pacific Standard Time

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	480035.812	0.515	NO	0.734	10.015	35.37	35.35	1.04	1.03	NO	189.4	94.8	0.948	
32	13C-1,2,3,4,6,7,8-HpCDF	407418.461	0.414	NO	0.754	10.015	37.08	37.10	1.09	1.09	NO	156.5	78.4	0.657	
33	13C-1,2,3,4,7,8,9-HpCDF	302623.125	0.430	NO	0.539	10.015	39.11	39.15	1.14	1.15	NO	162.6	81.4	0.920	
34	13C-OCDF	541407.391	0.866	NO	0.593	10.015	41.97	42.00	1.23	1.23	NO	264.7	66.3	0.590	
35	37Cl-2,3,7,8-TCDD	265355.594			1.07	10.015	26.17	26.18	1.03	1.03	NO	75.22	94.2	0.0818	
36	13C-1,2,3,4-TCDD	658739.594	0.791	NO	1.00	10.015	25.45	25.45	1.00	1.00	NO	199.7	100	0.458	
37	13C-1,2,3,4-TCDF	941030.751	0.725	NO	1.00	10.015	23.55	23.57	1.00	1.00	NO	199.7	100	0.567	
38	13C-1,2,3,4,6,9-HxCDF	689470.719	0.530	NO	1.00	10.015	34.16	34.16	1.00	1.00	NO	199.7	100	0.696	
39	Total Tetra-Dioxins				0.925	10.015	24.62		0.00		NO	0.0000		0.140	0.2730
40	Total Penta-Dioxins				0.905	10.015	29.96		0.00		NO	0.2403		0.0618	0.3880
41	Total Hexa-Dioxins				0.967	10.015	33.63		0.00		NO	1.411		0.157	2.110
42	Total Hepta-Dioxins				1.04	10.015	38.80		0.00		NO	4.777		0.215	4.777
43	Total Tetra-Furans				0.938	10.015	23.61		0.00		NO	1.515		0.123	1.723
44	1st Func. Penta-Furans				0.976	10.015	27.04		0.00		NO	0.07754		0.0132	0.07800
45	Total Penta-Furans				0.976	10.015	29.27		0.00		NO			0.0275	
46	Total Hexa-Furans				1.18	10.015	33.56		0.00		NO	0.1199		0.0401	0.1200
47	Total Hepta-Furans				1.13	10.015	37.83		0.00		NO	0.0000		0.0445	0.1710

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-9.qld

Last Altered: Thursday, December 26, 2019 16:44:03 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:27:03 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	0.00e0	6.76e5	0.766	NO	24.62	21.87	0.0000	0.2730

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	5.29e2	4.86e5	0.543	NO	29.96	29.54	0.2403	0.2400
2	40 Total Penta-Dioxins	0.00e0	4.86e5	0.369	YES	29.96	29.06	0.0000	0.1470

Hexa-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.037	YES	33.63	34.00	0.0000	0.6990
2	41 Total Hexa-Dioxins	2.61e3	0.00e0	1.335	NO	33.63	33.19	1.411	1.411

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.98e3	3.08e5	1.021	NO	38.54	38.54	1.862	1.862
2	42 Total Hepta-Dioxins	4.66e3	3.08e5	1.002	NO	38.80	37.51	2.916	2.916

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	0.00e0	9.19e5	0.896	YES	23.61	24.13	0.0000	0.2080
2	43 Total Tetra-Furans	1.47e3	9.19e5	0.727	NO	23.61	21.41	0.3400	0.3400
3	43 Total Tetra-Furans	3.42e3	9.19e5	0.836	NO	23.61	20.91	0.7919	0.7920
4	43 Total Tetra-Furans	6.85e2	9.19e5	0.754	NO	23.61	19.79	0.1587	0.1590
5	43 Total Tetra-Furans	9.68e2	9.19e5	0.698	NO	23.61	25.62	0.2243	0.2240

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-9.qld

Last Altered: Thursday, December 26, 2019 16:44:03 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:27:03 Pacific Standard Time

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	2.55e2	0.00e0	1.699	NO	27.04	27.33	0.07754	0.07800

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	3.69e2	0.00e0	1.316	NO	33.56	32.85	0.1199	0.1200

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	5.18e2	4.07e5	1.681	YES	37.14	37.12	0.0000	0.1710

Dataset: Untitled

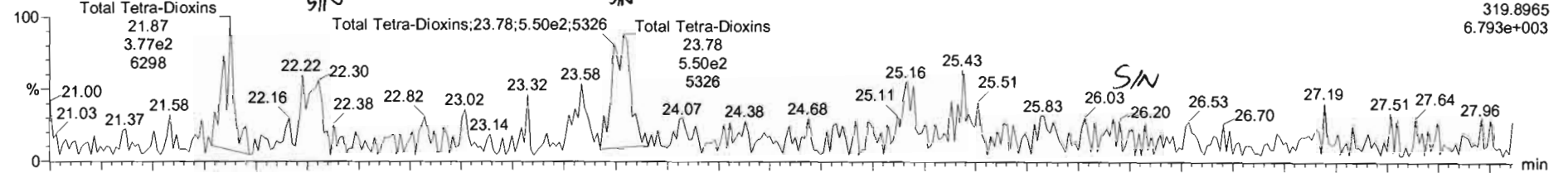
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

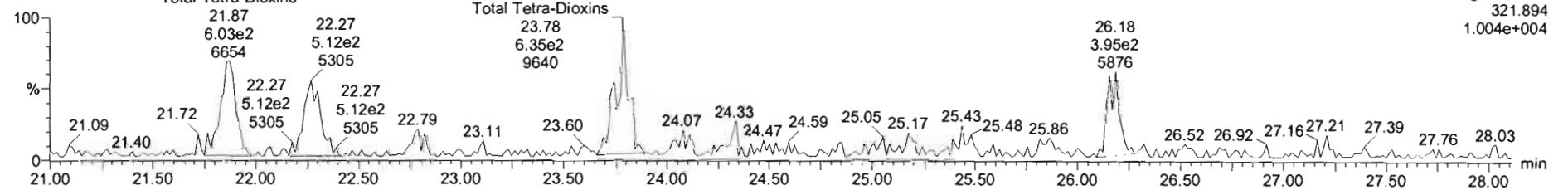
Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

2,3,7,8-TCDD

191217K2_9

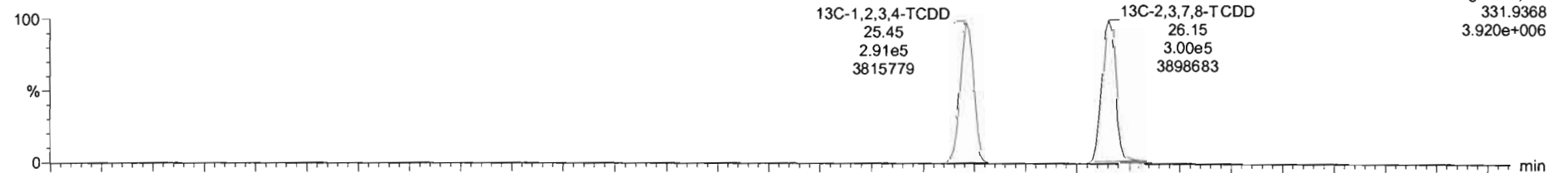


191217K2_9

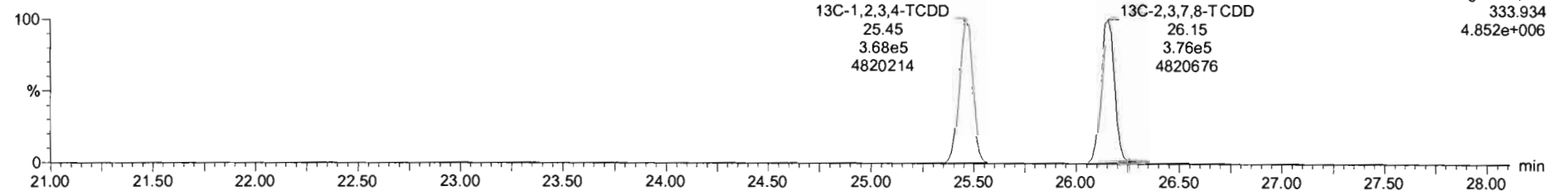


13C-2,3,7,8-TCDD

191217K2_9



191217K2_9

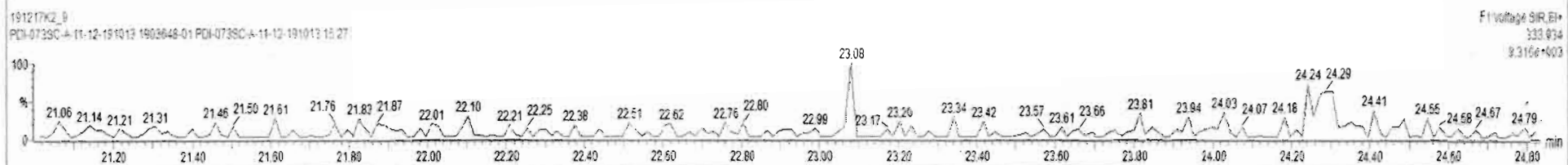
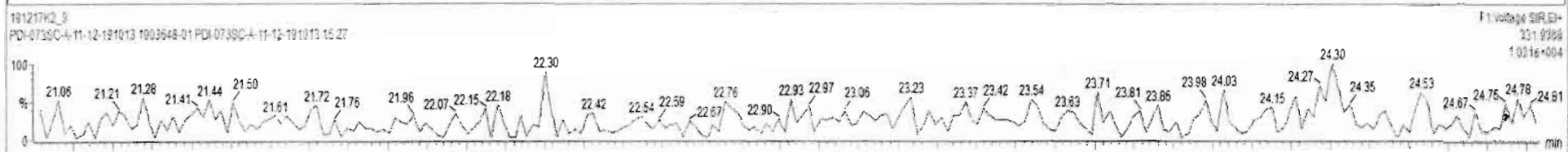
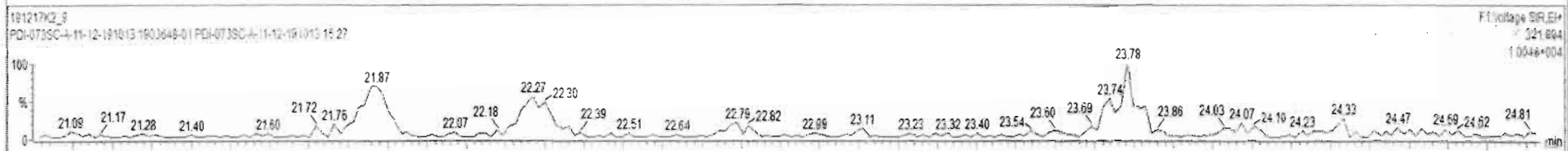
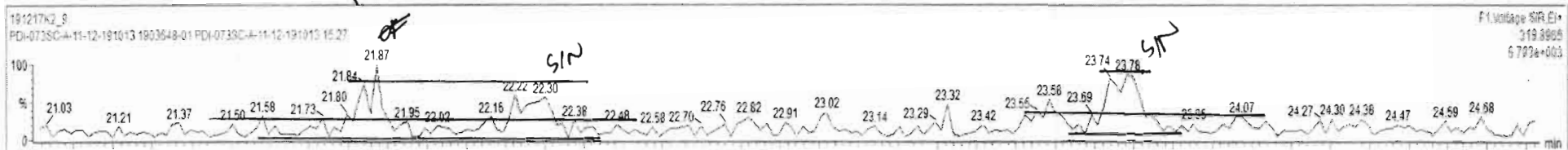


191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15:27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred.R	RRT	RRT Fa	Conc	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD				0.9249	10.015	26.18		1.001		YES			0.140	
2	1,2,3,7,8-PeCDD				0.9046	10.015	21.31		1.001		YES			0.114	
3	1,2,3,4,7,8-HxCDD				1.0691	10.015	34.66		1.000		YES			0.141	
4	1,2,3,6,7,8-HxCDD				0.9675	10.015	24.75		1.000		YES			0.149	
5	1,2,3,7,8,9-HxCDD				0.9779	10.015	35.06		1.001		YES			0.166	
6	1,2,3,4,6,7,8-HpCDD	3.16e3	0.98	NO	1.0375	10.015	38.54	38.54	1.000	1.000	NO	1.979		0.215	1.979
7	OCDD	1.31e4	0.83	NO	0.9718	10.015	41.80	41.81	1.000	1.000	NO	14.46		0.425	14.46
8	2,3,7,8-TCDF	6.88e2	0.58	YES	0.9078	10.015	25.20	25.19	1.001	1.001	NO	0.1618		0.123	0.1310
9	1,2,3,7,8-PeCDF				0.9762	10.015	30.00		1.001		YES			0.0998	
10	2,3,4,7,8-PeCDF				1.0649	10.015	31.02		1.001		YES			0.0658	
11	1,2,3,4,7,8-HxCDF				1.2434	10.015	33.78		1.000		YES			0.0830	
12	1,2,3,6,7,8-HxCDF				1.0960	10.015	33.91		1.000		YES			0.0637	
13	2,3,4,6,7,8-HxCDF				1.1808	10.015	34.51		1.001		YES			0.0712	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc
1										

RI ok



Dataset: Untitled

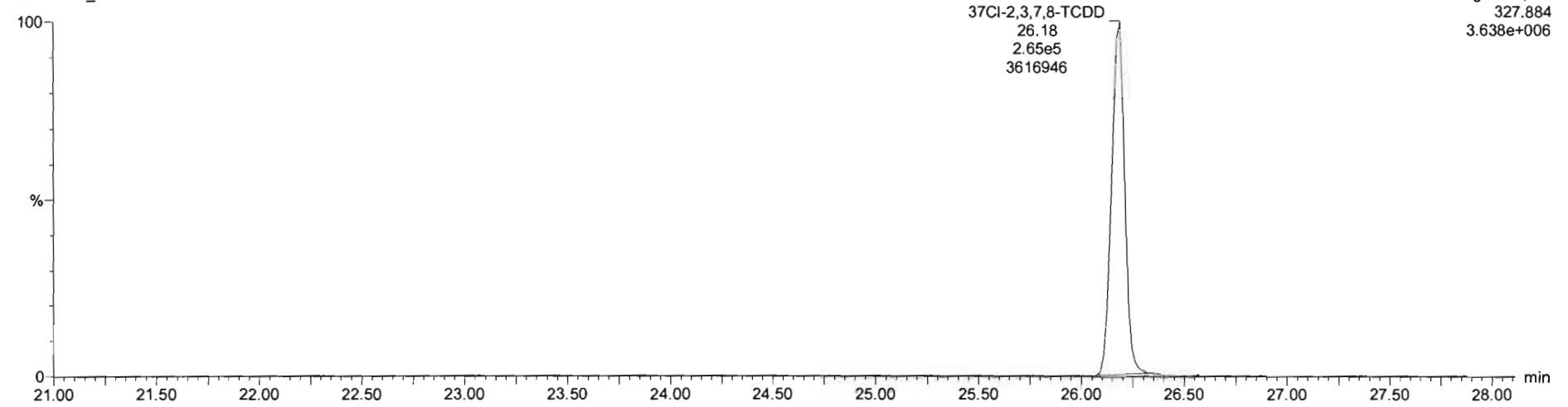
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

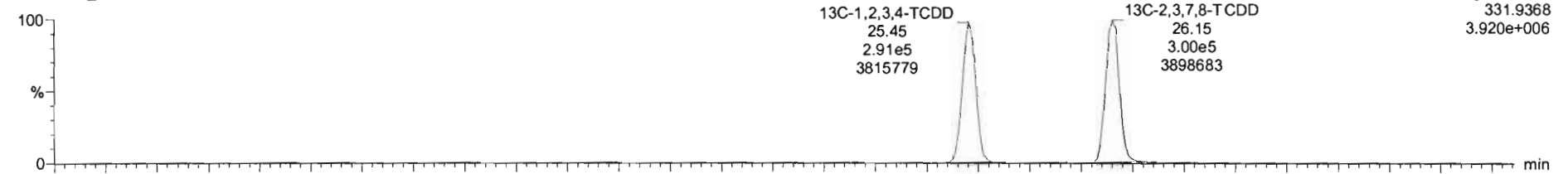
37Cl-2,3,7,8-TCDD

191217K2_9

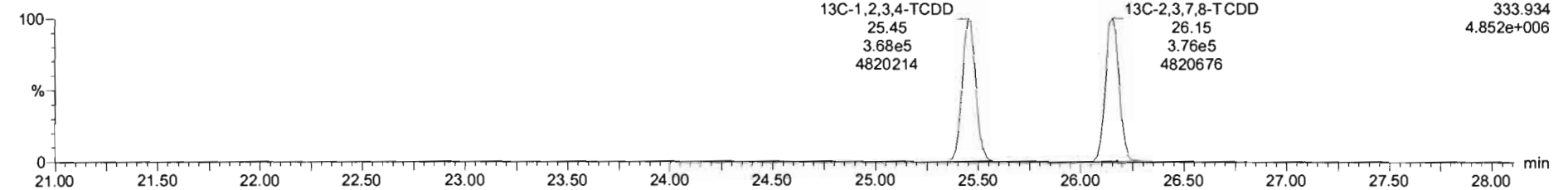


13C-1,2,3,4-TCDD

191217K2_9



191217K2_9



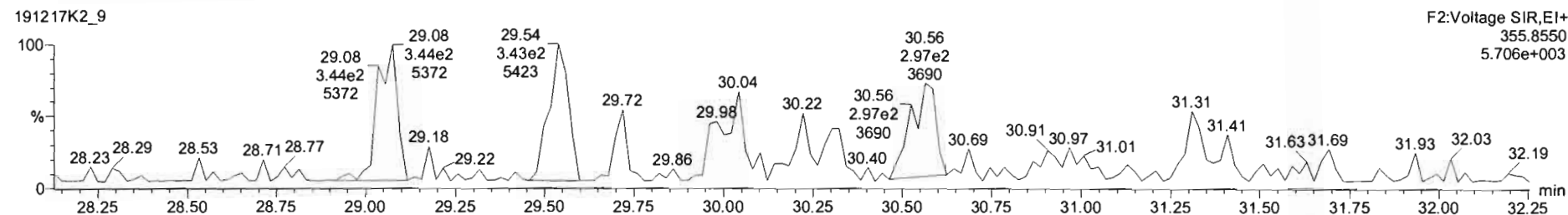
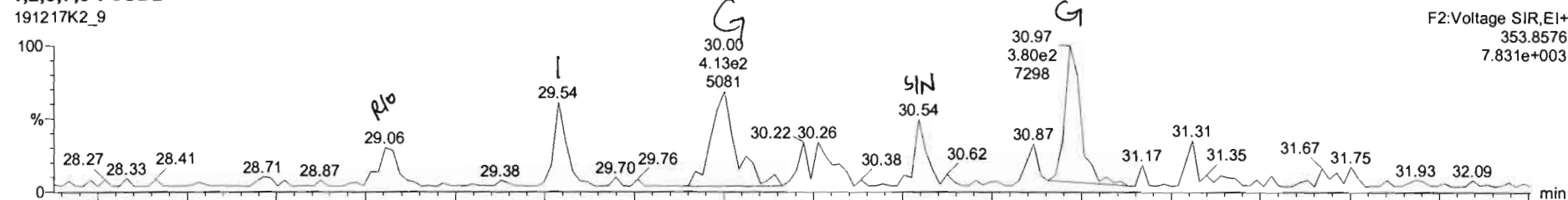
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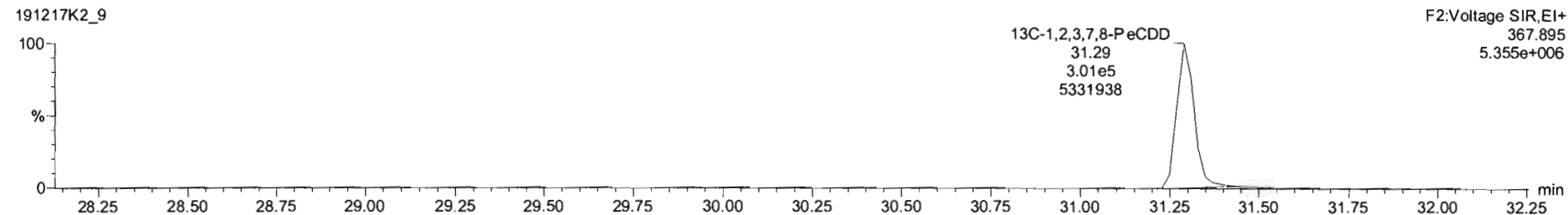
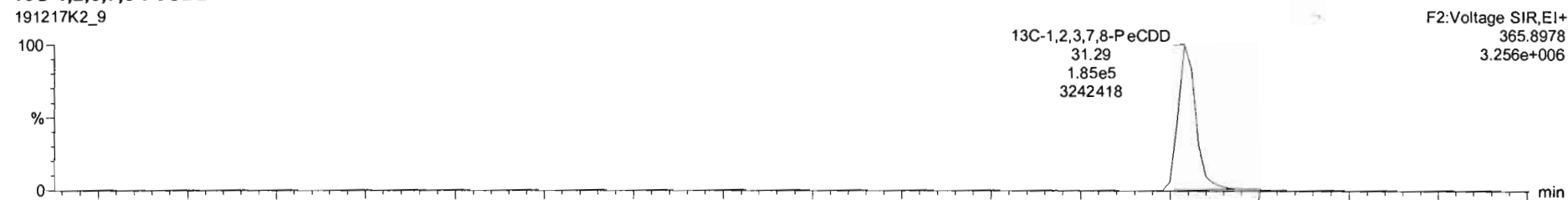
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Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

1,2,3,7,8-PeCDD



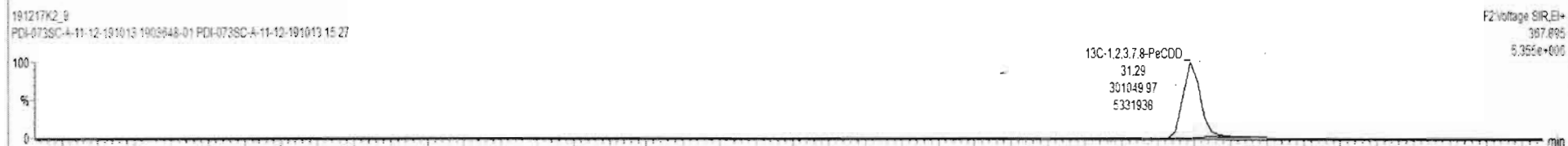
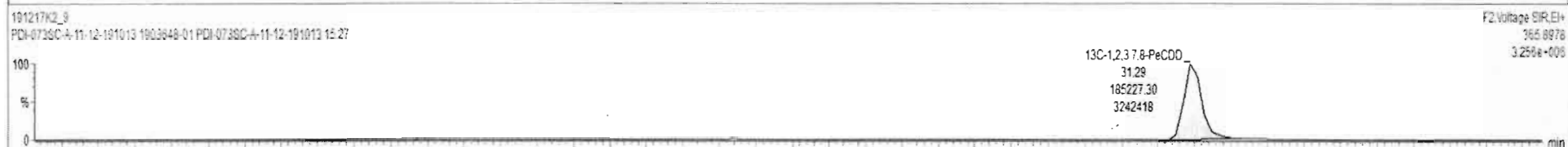
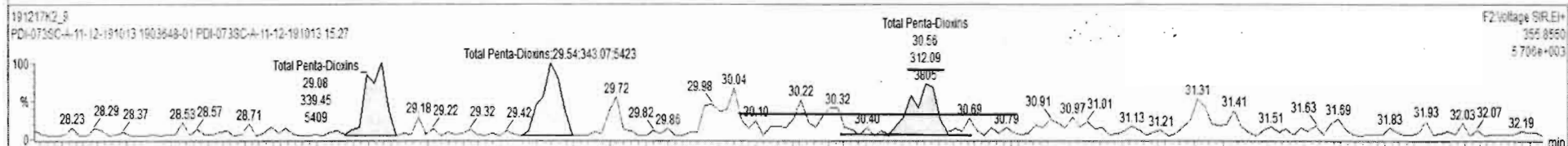
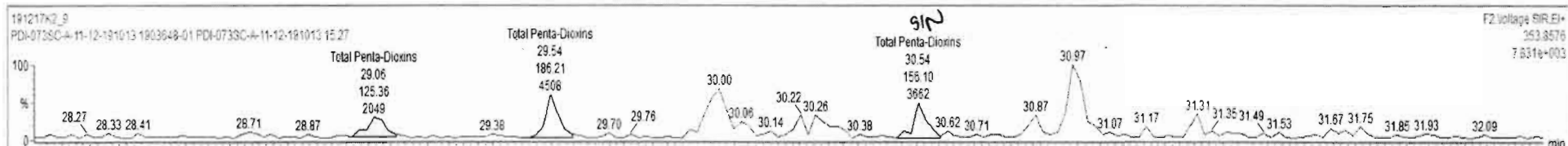
13C-1,2,3,7,8-PeCDD



191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15:27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
35	37C1-2,3,7,8-TCDD	2.65e5			1.0095	10.015	26.17	26.18	1.028	1.029	NO	75.22	94.2	0.0618	
36	13C-1,2,3,4-TCDD	6.59e5	0.79	NO	1.0000	10.015	25.45	25.45	1.000	1.000	NO	199.7	100	0.458	
37	13C-1,2,3,4-TCDF	9.41e5	0.73	NO	1.0000	10.015	23.55	23.57	1.000	1.000	NO	199.7	100	0.567	
38	13C-1,2,3,4,6,9-HxCDF	6.89e5	0.53	NO	1.0000	10.015	34.16	34.16	1.000	1.000	NO	199.7	100	0.696	
39	Total Tetra-Dioxins				0.9249	10.015	24.62		0.000		NO	0.0000		0.140	0.2727
40	Total Penta-Dioxins				0.9046	10.015	29.96		0.000		NO	0.2403		0.0618	0.5709
41	Total Hexa-Dioxins				0.9675	10.015	33.63		0.000		NO	2.138		0.157	2.647
42	Total Hepta-Dioxins				1.0375	10.015	38.80		0.000		NO	5.010		0.215	5.010
43	Total Tetra-Furans				0.9376	10.015	23.61		0.000		NO	1.525		0.123	2.327
44	1st Func. Penta-Furans				0.9762	10.015	27.04		0.000		NO			0.0132	
45	Total Penta-Furans				0.9762	10.015	29.27		0.000		NO	0.0000		0.0275	0.1580
46	Total Hexa-Furans				1.1806	10.015	33.56		0.000		NO			0.0401	
47	Total Hepta-Furans				1.1300	10.015	37.63		0.000		NO	0.0000		0.0445	0.1827

#	Name	Pred RT	RT	m1 Resp	m2 Resp	I ² Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.96	29.06	1.254e2	3.395e2	0.630	0.37	YES	0.14724	0.00000
2	Total Penta-Dioxins	29.96	30.54	1.561e2	3.121e2	0.630	0.50	YES	0.18235	0.00000
3	Total Penta-Dioxins	29.96	29.54	1.862e2	3.431e2	0.630	0.54	NO	0.24027	0.24027

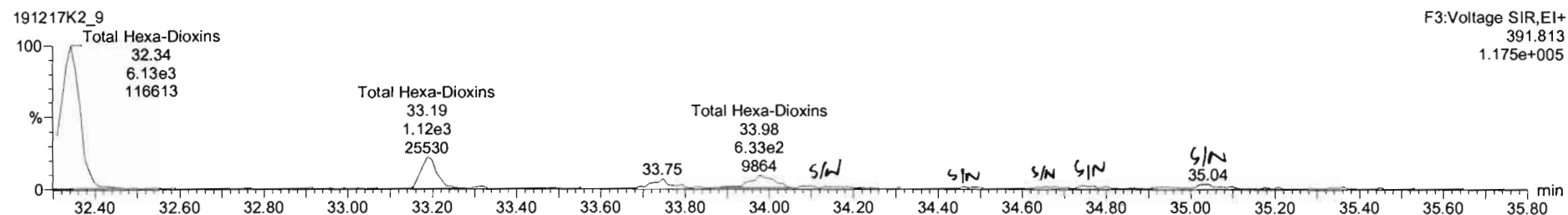
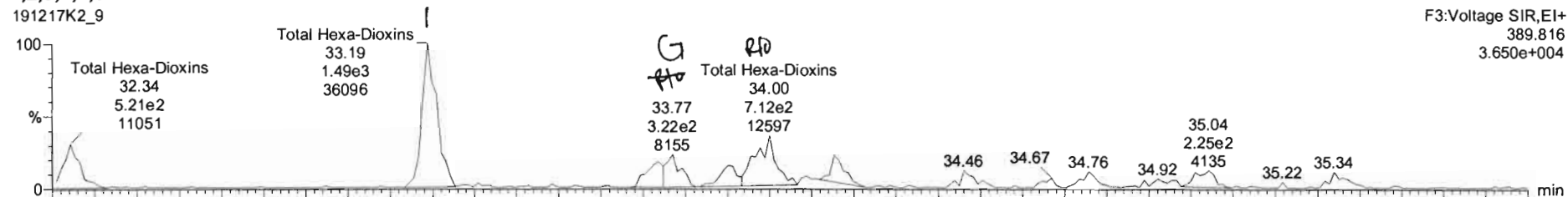


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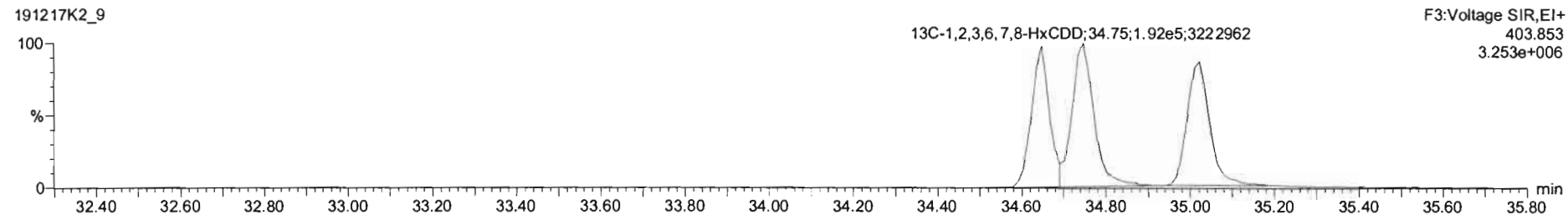
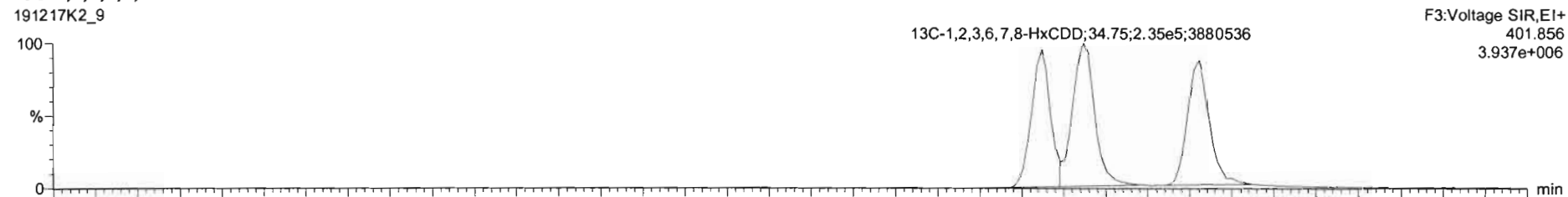
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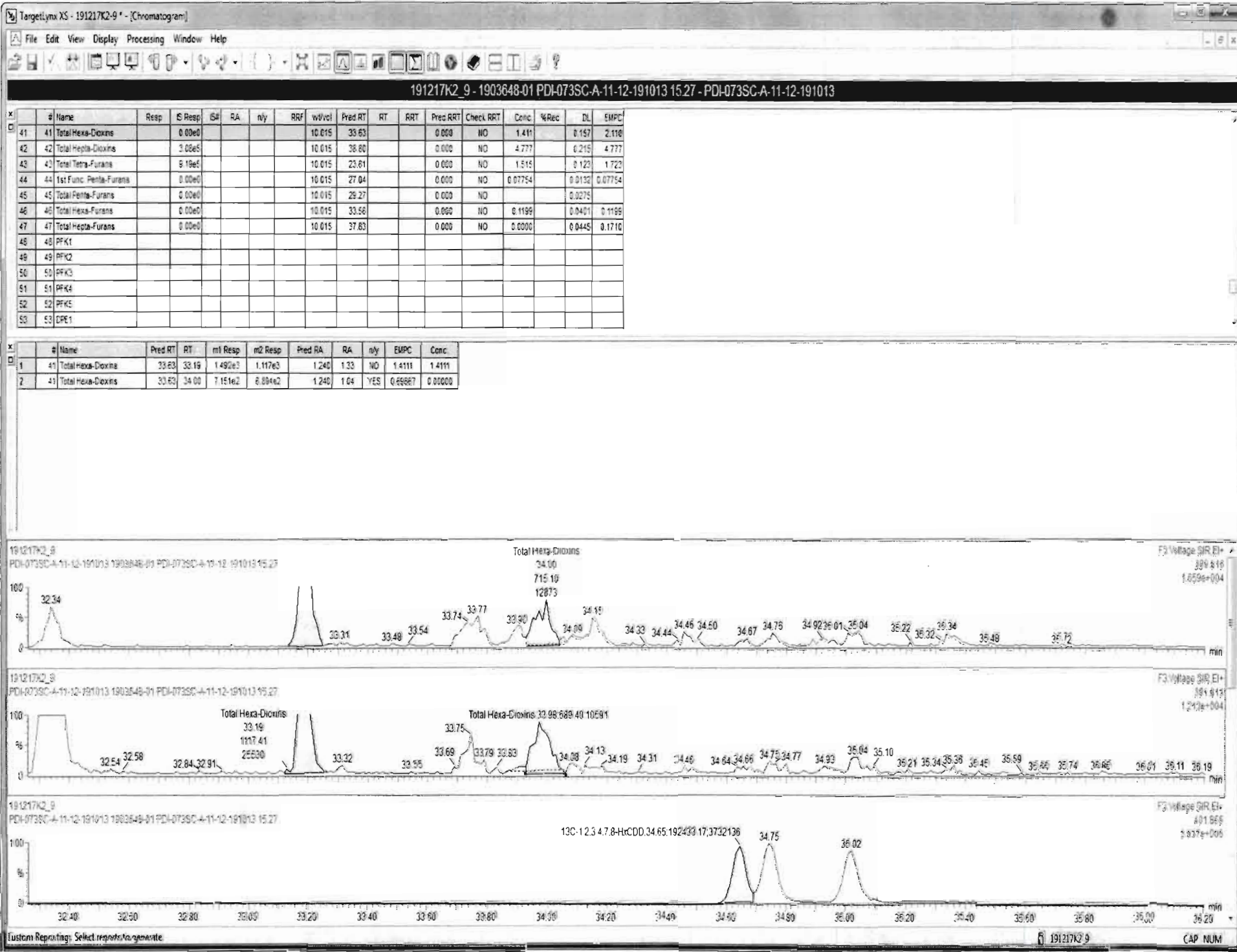
Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

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



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



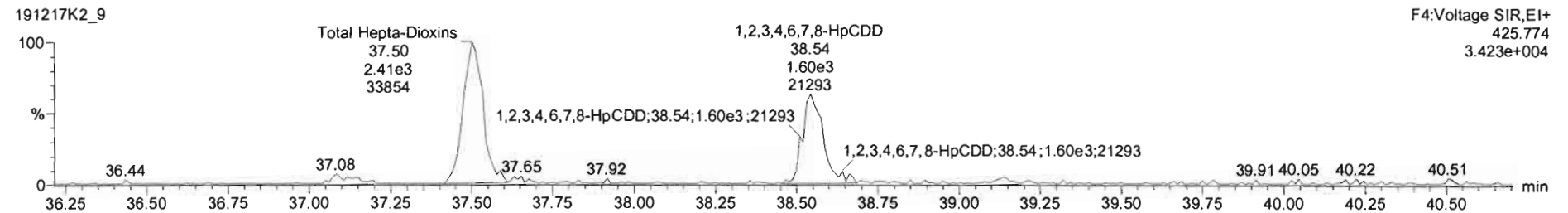
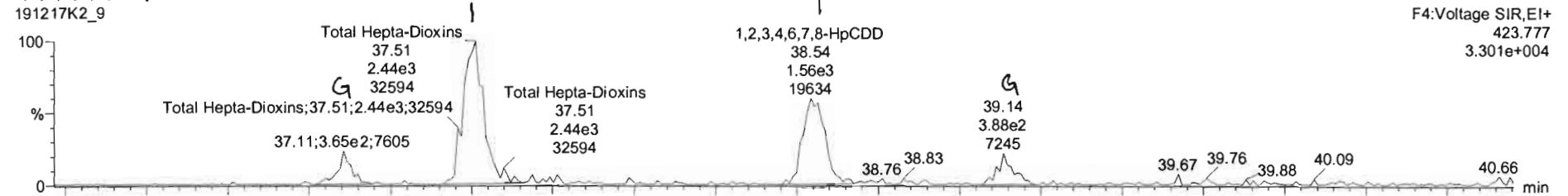


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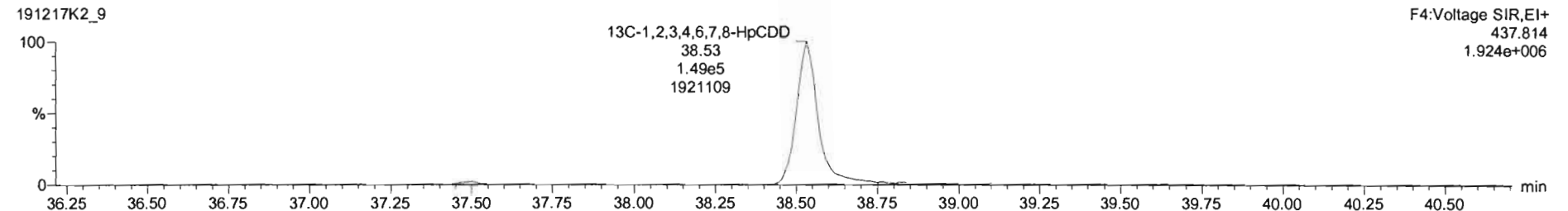
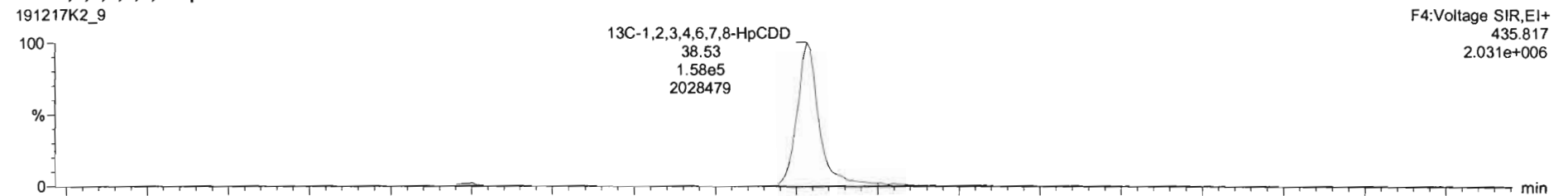
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Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

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



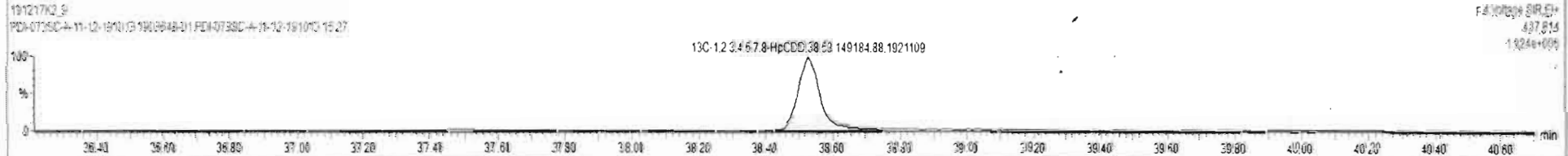
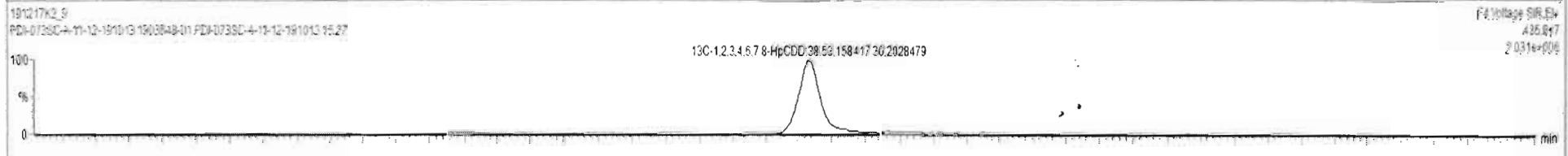
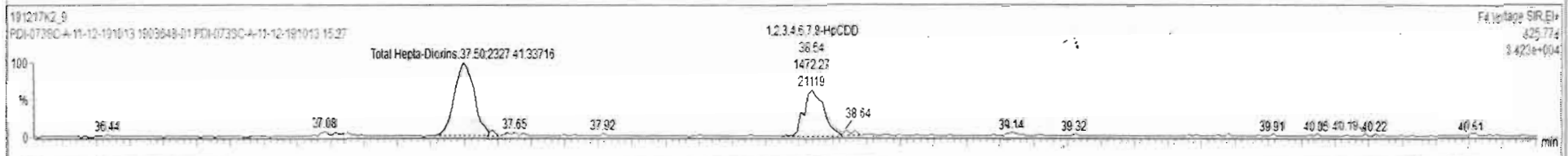
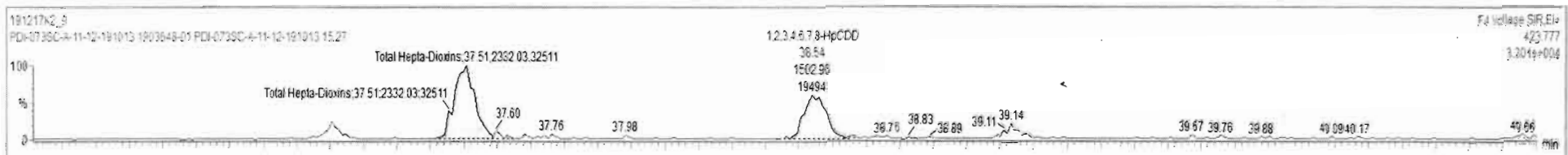
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191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15.27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred.R	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
35	35 37C-1,2,3,7,8-TCDD	2.65e5			1.0295	10.015	26.17	26.18	1.028	1.029	NO	75.22	94.2	0.0618	
36	36 13C-1,2,3,4-TCDD	6.59e5	0.79	NO	1.0000	10.015	25.45	25.45	1.000	1.000	NO	199.7	100	0.458	
37	37 13C-1,2,3,4-TDDF	9.41e5	0.73	NO	1.0000	10.015	23.55	23.57	1.000	1.000	NO	199.7	100	0.567	
38	38 13C-1,2,3,4,6,9-HxCDF	6.89e5	0.53	NO	1.0000	10.015	34.16	34.16	1.000	1.000	NO	199.7	100	0.896	
39	39 Total Tetra-Dioxins				0.9249	10.015	24.62		0.000		NO	0.0000		0.140	0.2727
40	40 Total Penta-Dioxins				0.9046	10.015	29.96		0.000		NO	0.2453		0.0618	0.3875
41	41 Total Hexa-Dioxins				0.9875	10.015	33.63		0.000		NO	1.411		0.157	2.558
42	42 Total Hepta-Dioxins				1.0375	10.015	38.80		0.000		NO	4.777		0.215	4.777
43	43 Total Tetra-Furans				0.9276	10.015	23.61		0.000		NO	1.525		0.123	2.327
44	44 1st Func. Penta-Furans				0.9762	10.015	27.04		0.000		NO			0.0132	
45	45 Total Penta-Furans				0.9702	10.015	29.27		0.000		NO	0.0000		0.0275	0.1560
46	46 Total Hexa-Furans				1.1808	10.015	33.56		0.000		NO			0.0401	
47	47 Total Hepta-Furans				1.1300	10.015	37.83		0.000		NO	0.0000		0.0445	0.1827

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Prec)	RA	nly	EMPC	Conc.
1	6 1,2,3,4,6,7,8-HpCDD	38.54	38.54	1.503e3	1.472e3	1.040	1.02	NO	1.8617	1.8617
2	42 Total Hepta-Dioxins	38.80	37.51	2.332e3	2.327e3	1.040	1.00	NO	2.9156	2.9156



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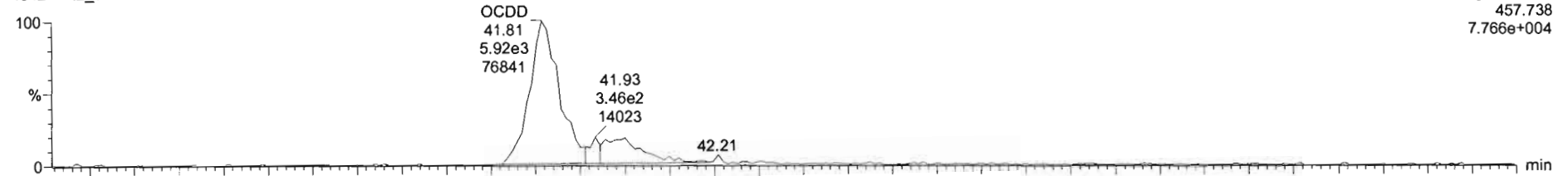
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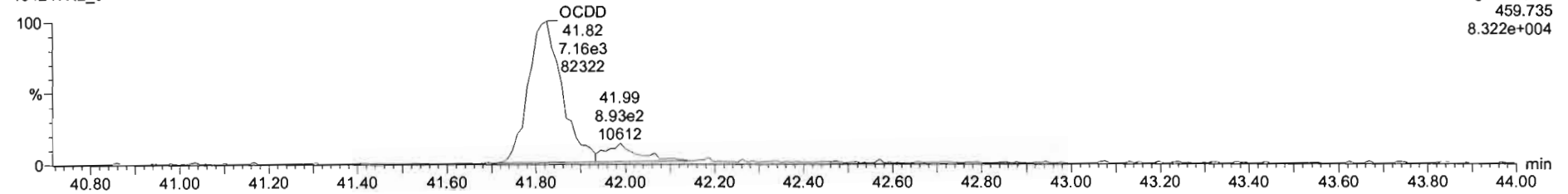
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OCDD

191217K2_9

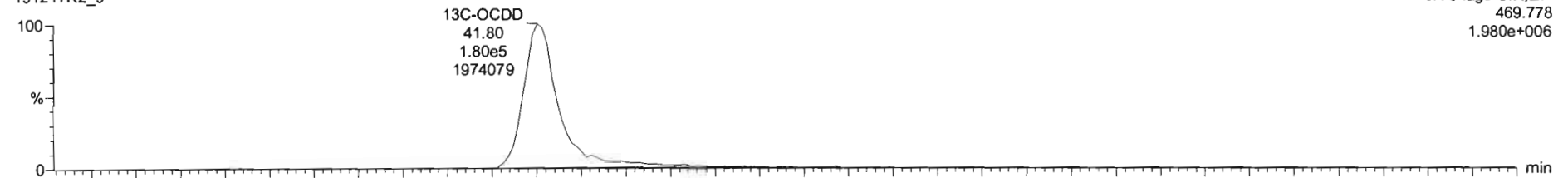


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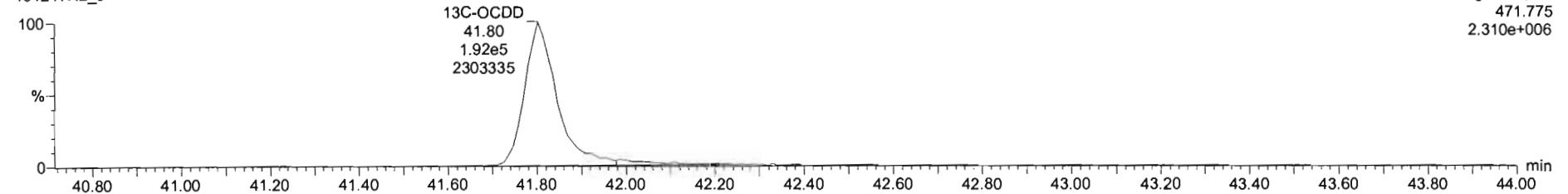


13C-OCDD

191217K2_9



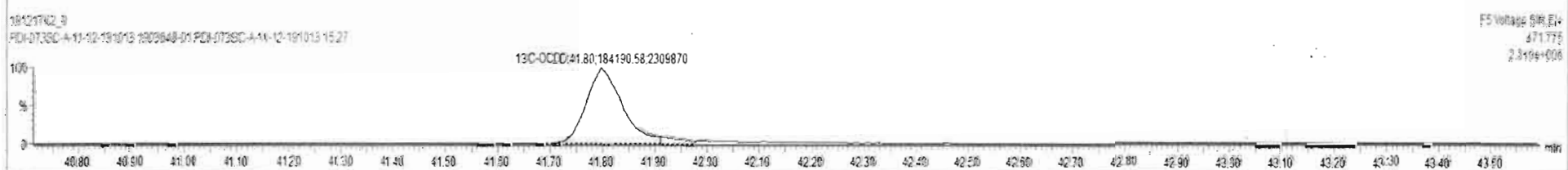
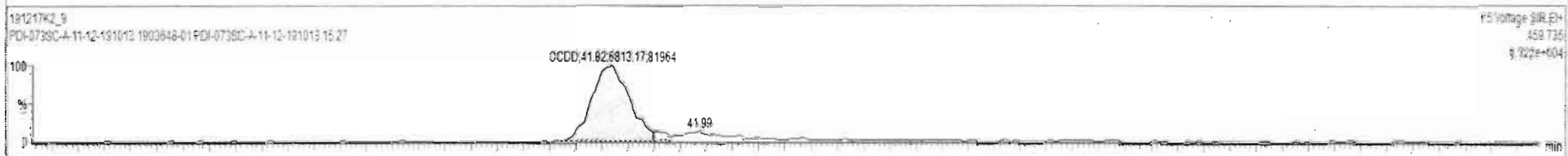
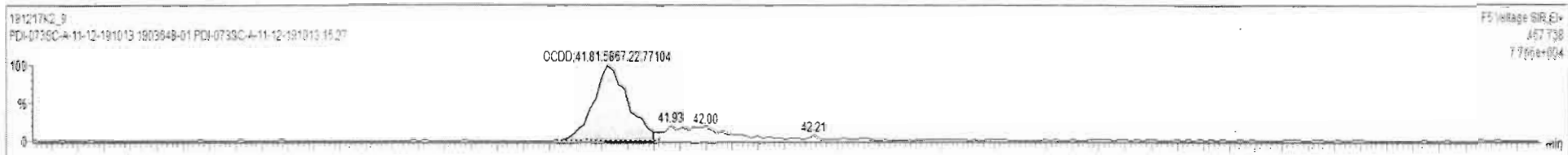
191217K2_9



191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15.27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
7	OCDD	1.27e4	0.86	NO	0.9718	10.015	41.80	41.81	1.000	1.000	NO	14.88		0.415	14.88
8	2,3,7,8-TCDF	6.96e2	0.58	YES	0.9378	10.015	26.20	25.19	1.001	1.001	NO	0.1618		0.123	0.1369
9	1,2,3,7,8-PeCDF				0.9762	10.015	30.00		1.001		YES			0.0658	
10	2,3,4,7,8-PeCDF				1.0049	10.015	31.02		1.001		YES			0.0658	
11	1,2,3,4,7,8-HxCDF				1.2434	10.015	33.78		1.000		YES			0.0630	
12	1,2,3,6,7,8-HxCDF				1.0950	10.015	33.91		1.000		YES			0.0637	
13	2,3,4,6,7,8-HxCDF				1.1806	10.015	34.51		1.001		YES			0.0712	
14	1,2,3,7,8,9-HxCDF				1.0728	10.015	35.55		1.000		YES			0.0941	
15	1,2,3,4,6,7,8-HpCDF	5.32e2	1.58	YES	1.1300	10.015	37.14	37.12	1.001	1.000	NO	0.2307		0.0765	0.1827
16	1,2,3,4,7,8,9-HpCDF				1.2699	10.015	39.15		1.000		YES			0.0914	
17	OCDF				1.1025	10.015	42.00		1.000		YES			0.170	
18	13C-2,3,7,8-TCDD	6.76e5	0.80	NO	1.0489	10.015	26.15	26.15	1.027	1.028	NO	195.5	97.9	0.437	
19	13C-1,2,3,7,8-PeCDD	4.86e5	0.62	NO	0.7429	10.015	31.29	31.29	1.230	1.229	NO	198.4	99.4	0.613	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc
1										

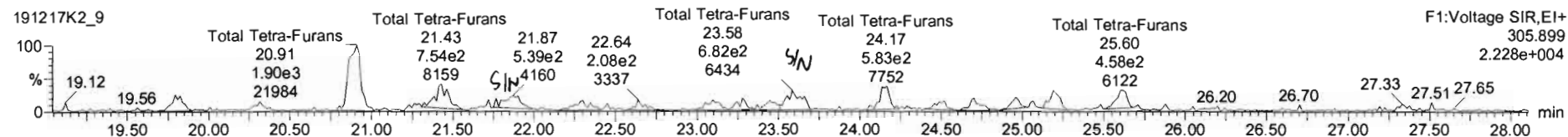
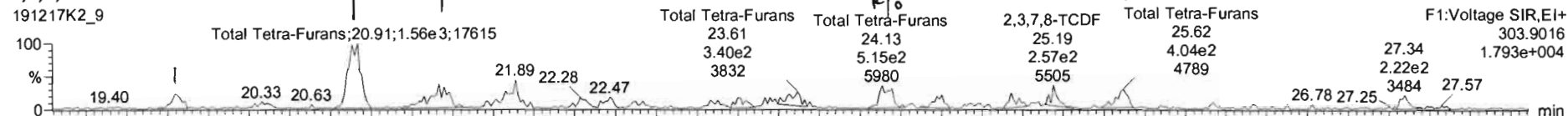


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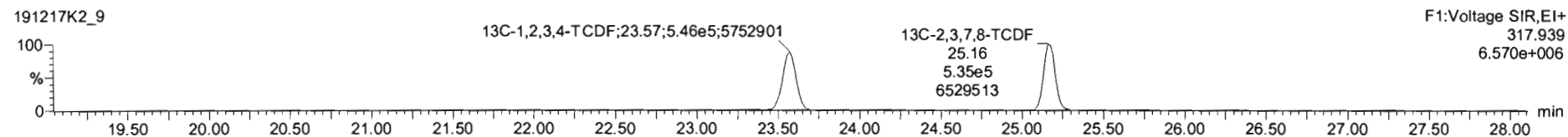
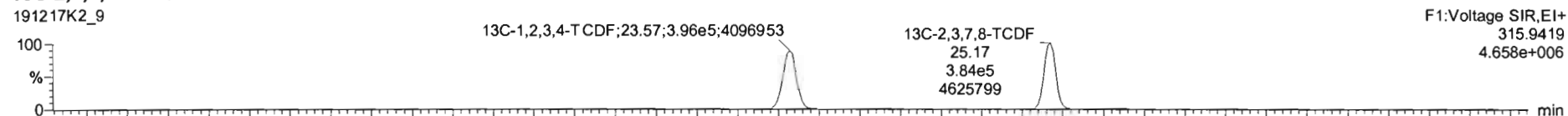
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

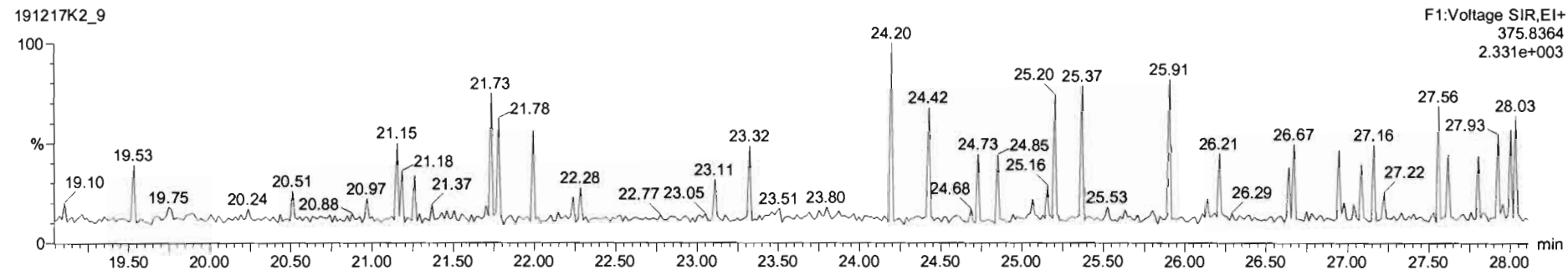
2,3,7,8-TCDF



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



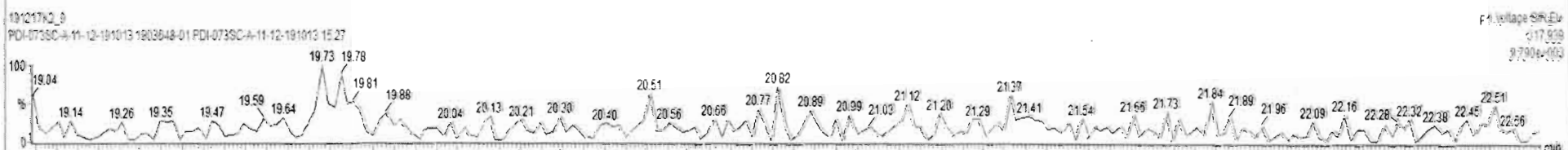
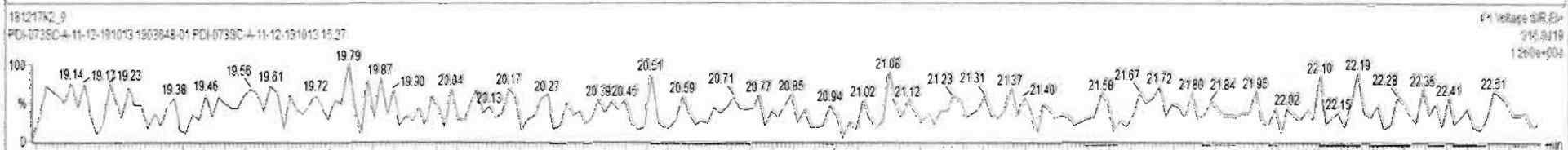
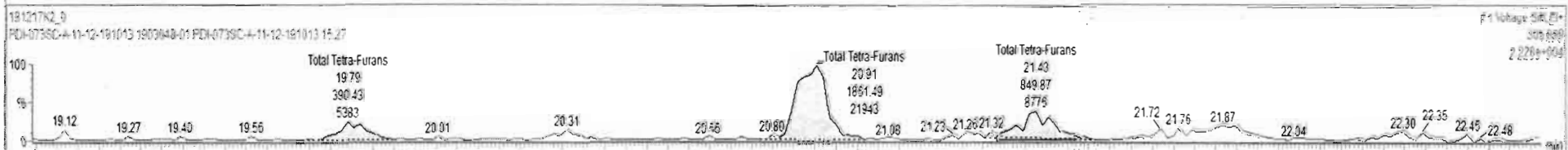
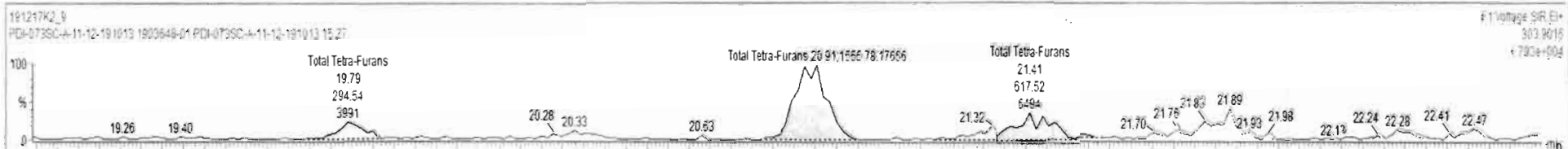
DPE1



191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15:27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	nly	RRF	wt/wt	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
35	37Cl-2,3,7,8-TCDD	2.66e5			1.0895	10.015	26.17	26.18	1.028	1.029	NO	75.22	94.2	0.0818	
36	13C-1,2,3,4-TCDD	6.59e5	0.79	NO	1.0000	10.015	25.45	25.45	1.000	1.000	NO	199.7	100	0.458	
37	13C-1,2,3,4-TCDF	9.41e5	0.73	NO	1.0000	10.015	23.55	23.57	1.000	1.000	NO	199.7	100	0.567	
38	13C-1,2,3,4,8,9-HxCDF	6.89e5	0.53	NO	1.0000	10.015	34.16	34.16	1.000	1.000	NO	199.7	100	0.696	
39	Total Tetra-Dioxins				0.9249	10.015	24.62		0.000		NO	0.0000		0.140	0.2727
40	Total Penta-Dioxins				0.9046	10.015	29.96		0.000		NO	0.2403		0.0618	0.3975
41	Total Hexa-Dioxins				0.9675	10.015	33.63		0.000		NO	1.411		0.157	2.558
42	Total Hepta-Dioxins				1.0375	10.015	38.00		0.000		NO	4.777		0.215	4.777
43	Total Tetra-Furans				0.9376	10.015	23.61		0.000		NO	1.428		0.123	1.632
44	1st Func. Penta-Furans				0.9762	10.015	27.04		0.000		NO			0.0132	
45	Total Penta-Furans				0.9762	10.015	29.27		0.000		NO	0.0000		0.0275	0.1568
46	Total Hexa-Furans				1.1896	10.015	33.56		0.000		NO			0.0401	
47	Total Hepta-Furans				1.1300	10.015	37.63		0.000		NO	0.0000		0.0445	0.1827

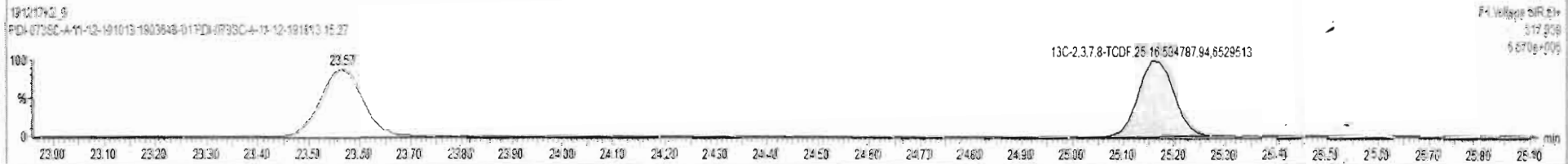
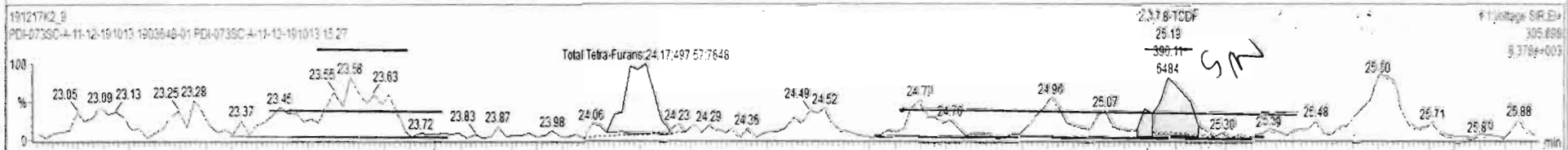
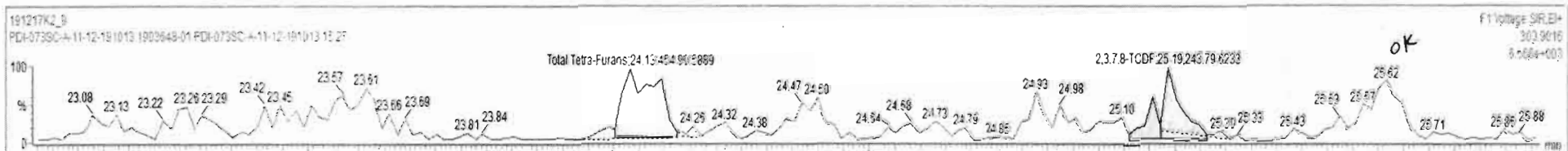
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1	2,3,7,8-TCDF	25.20	25.15	2.439e2	3.467e2	0.770	0.79	NO	0.13680	0.13680
2	Total Tetra-Furans	23.61	19.79	2.945e2	3.904e2	0.770	0.75	NO	0.15873	0.15873
3	Total Tetra-Furans	23.61	20.91	1.555e3	1.861e3	0.770	0.84	NO	0.79191	0.79191
4	Total Tetra-Furans	23.61	21.41	6.175e2	8.459e2	0.770	0.73	NO	0.34005	0.34005



191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15:27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R	RRT	RRT Fax	Conc.	%Rec	DL	EMPC
35	37C-2,3,7,8-TCDD	2.85e5			1.0095	10.015	26.17	26.18	1.028	1.029	NO	75.22	94.2	0.0618	
36	13C-1,2,3,4-TCDD	6.59e5	0.79	NO	1.0000	10.015	25.45	25.45	1.000	1.000	NO	199.7	100	0.458	
37	37C-1,2,3,4-TCDF	9.41e5	0.73	NO	1.0000	10.015	23.55	23.57	1.000	1.000	NO	199.7	100	0.567	
38	38C-1,2,3,4,6,9-HxCDF	6.89e5	0.53	NO	1.0000	10.015	34.16	34.16	1.000	1.000	NO	199.7	100	0.698	
39	Total Tetra-Dioxins				0.9249	10.015	24.82		0.000		NO	0.0000		0.140	0.2727
40	Total Penta-Dioxins				0.9046	10.015	29.96		0.000		NO	0.2403		0.0618	0.3876
41	Total Hexa-Dioxins				0.9675	10.015	33.83		0.000		NO	1.411		0.157	2.558
42	Total Hepta-Dioxins				1.0375	10.015	36.80		0.000		NO	4.777		0.215	4.777
43	Total Tetra-Furans				0.9076	10.015	23.61		0.000		NO	1.291		0.123	1.654
44	1st Func. Penta-Furans				0.9762	10.015	27.04		0.000		NO			0.0132	
45	Total Penta-Furans				0.9762	10.015	29.27		0.000		NO	0.0000		0.0275	0.1580
46	Total Hexa-Furans				1.1808	10.015	33.56		0.000		NO			0.0401	
47	Total Hepta-Furans				1.1100	10.015	37.83		0.000		NO	0.0000		0.0445	0.1827

#	Name	Pred RT	RT	m1 Resp	m2 Resp	I ² Ratio (Pred)	RA	n/y	EMPC	Conc.
1	37C-2,3,7,8-TCDF	25.20	25.19	2.438e2	3.981e2	0.770	0.62	YES	0.12587	0.00000
2	43 Total Tetra-Furans	23.61	19.79	2.945e2	3.504e2	0.770	0.75	NO	0.15673	0.15873
3	43 Total Tetra-Furans	23.61	20.91	1.556e3	1.881e3	0.770	0.84	NO	0.79191	0.79191
4	43 Total Tetra-Furans	23.61	21.41	6.175e2	8.499e2	0.770	0.73	NO	0.34005	0.34005

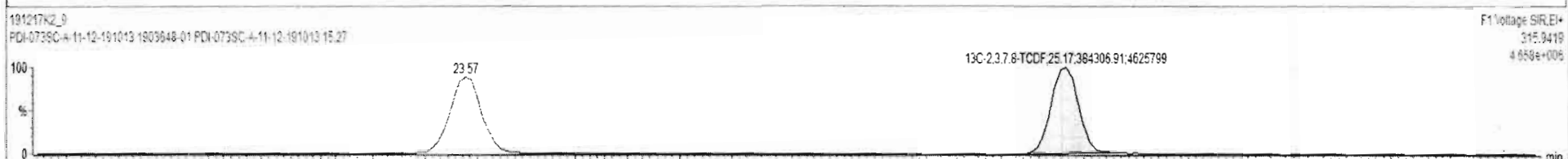
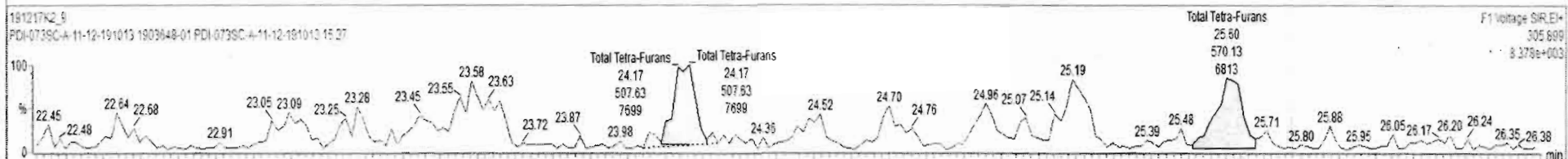
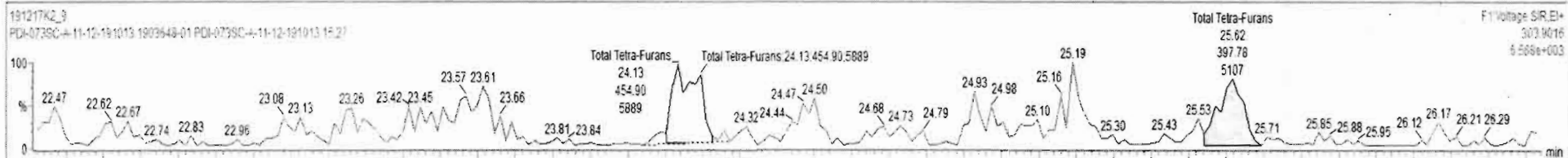




191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15.27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
34	13C-OCDF	5.41e5	0.87	NO	0.5925	10.015	41.97	42.00	1.229	1.229	NO	264.7	66.2	0.690	
35	37Cl-2,3,7,8-TCDD	2.65e5			1.0695	10.015	26.17	26.18	1.028	1.029	NO	75.22	94.2	0.0818	
36	13C-1,2,3,4-TCDD	6.65e5	0.79	NO	1.0000	10.015	25.45	25.45	1.000	1.000	NO	199.7	100	0.456	
37	13C-1,2,3,4-TCDF	9.41e5	0.73	NO	1.0000	10.015	23.55	23.57	1.000	1.000	NO	199.7	100	0.567	
38	13C-1,2,3,4,6,9-HxCDF	6.65e5	0.53	NO	1.0000	10.015	34.16	34.16	1.000	1.000	NO	199.7	100	0.690	
39	Total Tetra-Dioxins				0.9249	10.015	24.92		0.000		NO	8.0000		0.140	0.2727
40	Total Penta-Dioxins				0.9046	10.015	29.96		0.000		NO	0.2403		0.0618	0.3675
41	Total Hexa-Dioxins				0.9675	10.015	33.63		0.000		NO	1.411		0.157	2.568
42	Total Hepta-Dioxins				1.0375	10.015	36.80		0.000		NO	4.777		0.215	4.777
43	Total Tetra-Furans				0.9378	10.015	23.61		0.000		NO	1.515		0.123	1.723
44	1st Func. Penta-Furans				0.9762	10.015	27.04		0.000		NO			0.0132	
45	Total Penta-Furans				0.9762	10.015	26.27		0.000		NO	0.0000		0.0275	0.1560
46	Total Hexa-Furans				1.1800	10.015	33.56		0.000		NO			0.0401	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	I ^o Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.79	2.945e2	3.904e2	0.770	0.75	NO	0.15873	0.15873
2	43 Total Tetra-Furans	23.61	20.91	1.556e3	1.861e3	0.770	0.84	NO	0.79191	0.79191

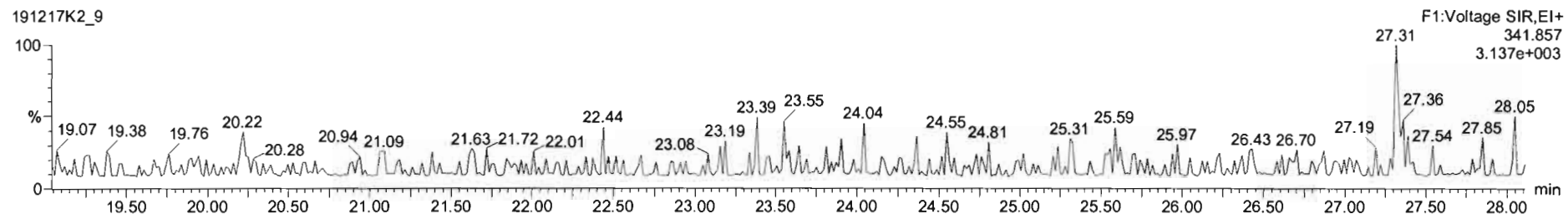
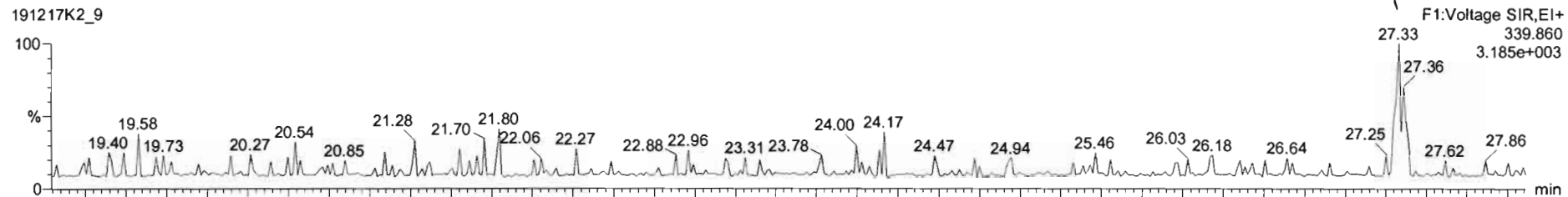


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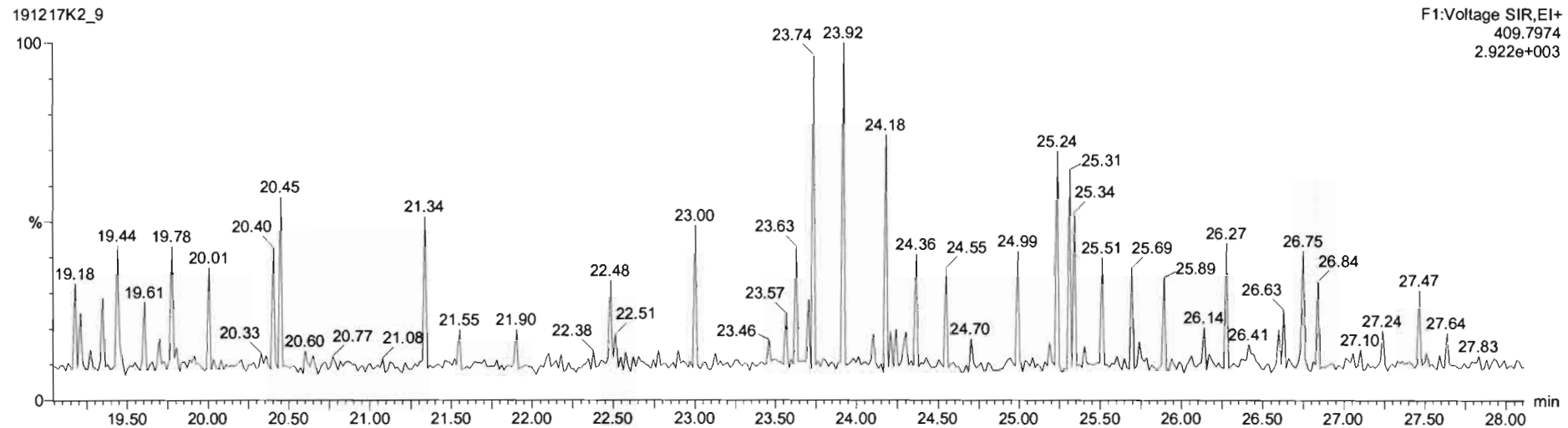
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

1st Func. Penta-Furans



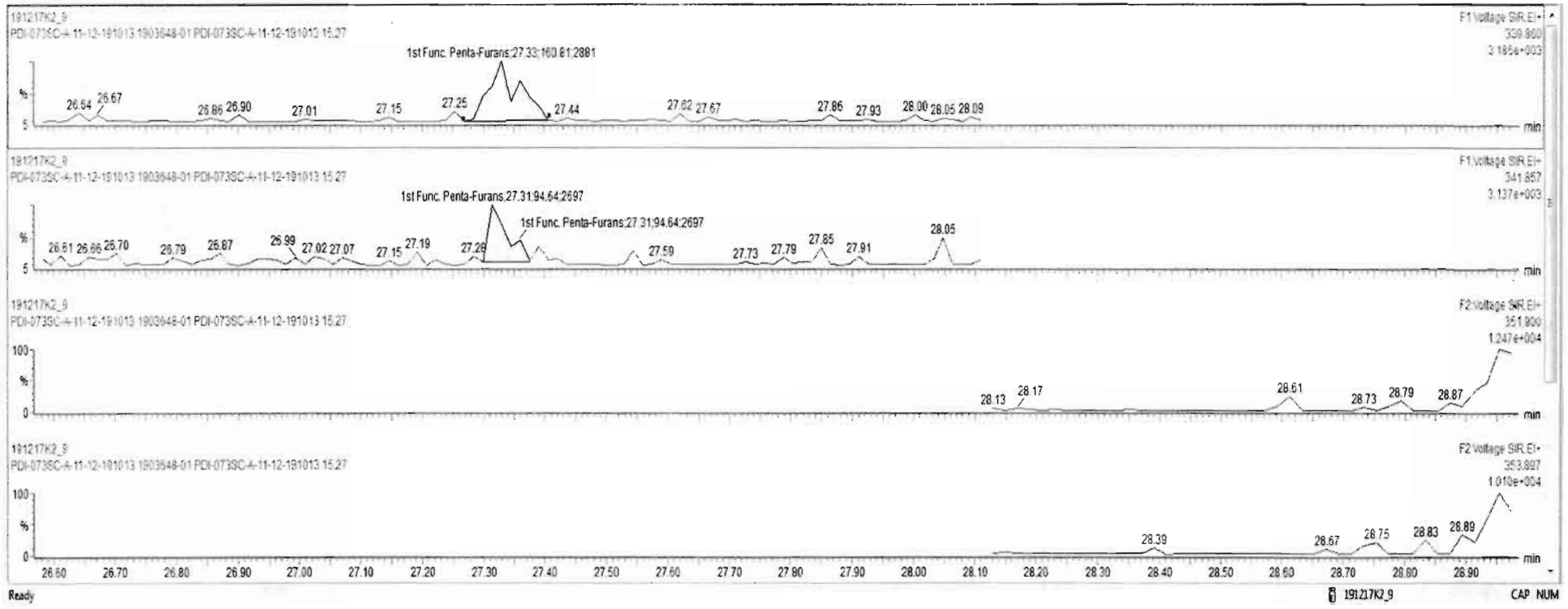
DPE6



191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15.27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	n/y	RF	wt%	Pred RT	RT	Pred R	RRT	RRT For	Conc	%Rec	DL	EMPC
34	13C-OCDF	5.41e5	0.87	NO	0.5925	10.015	41.97	42.00	1.229	1.228	NO	264.7	89.3	0.590	
35	37D-2,3,7,8-TCDD	2.65e5			1.0695	10.015	26.17	26.18	1.028	1.029	NO	75.22	94.2	0.0018	
36	13C-1,2,3,4-TCDD	6.59e5	0.79	NO	1.0000	10.015	25.45	25.45	1.000	1.000	NO	189.7	100	0.458	
37	13C-1,2,3,4-TCDF	9.41e5	0.73	NO	1.0000	10.015	23.55	23.57	1.000	1.000	NO	199.7	100	0.567	
38	13C-1,2,3,4,6,9-HxCDF	6.89e5	0.53	NO	1.0000	10.015	34.15	34.16	1.000	1.000	NO	199.7	100	0.696	
39	Total Tetra-Dioxins				0.9249	10.015	24.82		0.000		NO	0.0000		0.140	0.2727
40	Total Penta-Dioxins				0.9048	10.015	29.96		0.000		NO	0.2403		0.0618	0.3875
41	Total Hexa-Dioxins				0.9675	10.015	33.83		0.000		NO	1.411		0.157	2.558
42	Total Hepta-Dioxins				1.0275	10.015	38.80		0.000		NO	4.777		0.215	4.777
43	Total Tetra-Furans				0.9276	10.015	23.61		0.000		NO	1.515		0.123	1.723
44	1st Func. Penta-Furans				0.9762	10.015	27.04		0.000		NO	0.07754		0.0132	0.07754
45	Total Penta-Furans				0.9762	10.015	29.27		0.000		NO	0.0000		0.0275	0.1580
46	Total Hexa-Furans				1.1808	10.015	33.56		0.000		NO			0.0401	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 ^o Ratio (Pred)	RA	n/y	EMPC	Conc.
1	44 1st Func. Penta-Furans	27.04	27.33	1.608e2	9.464e1	1.550	1.70	NO	0.077536	6.077536

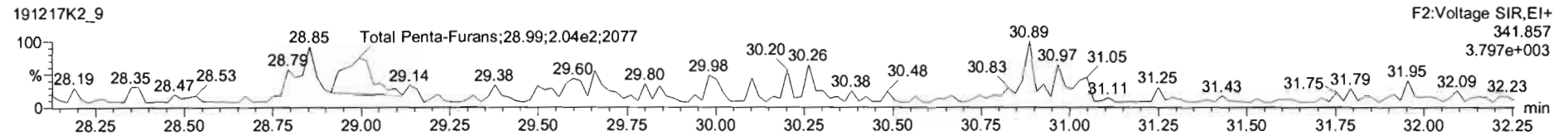
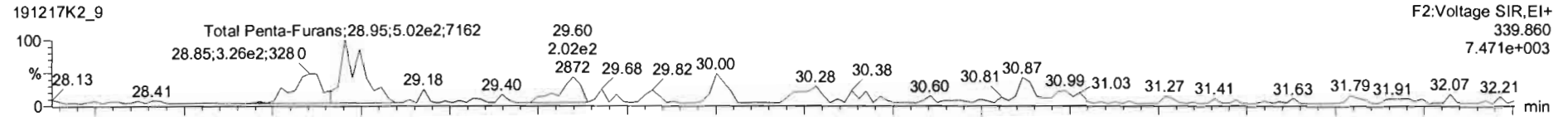


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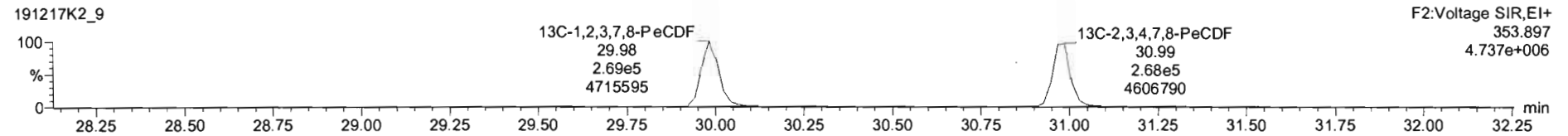
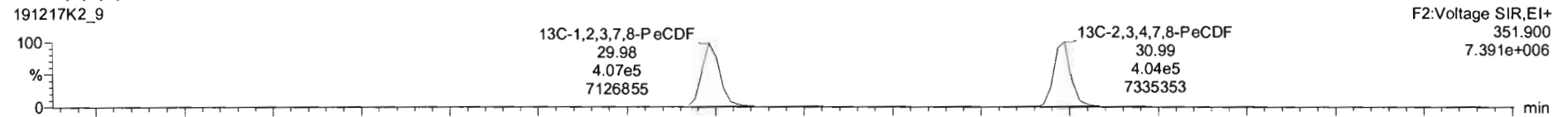
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

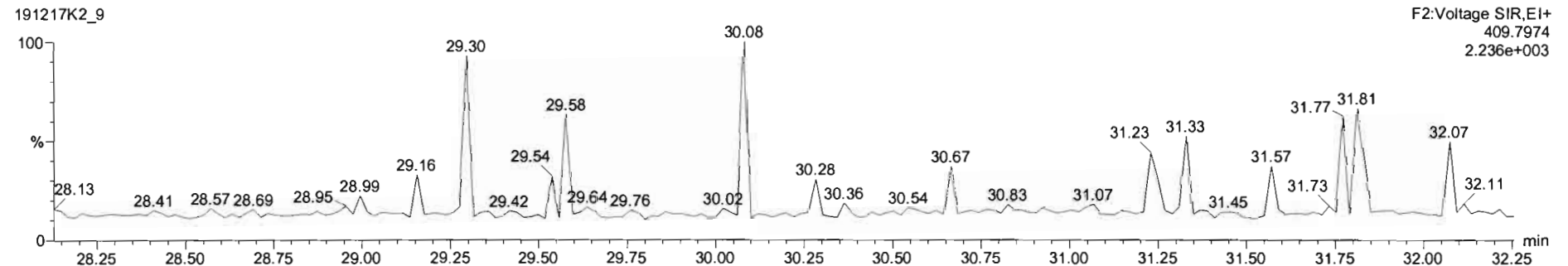
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13C-1,2,3,7,8-PeCDF



DPE2

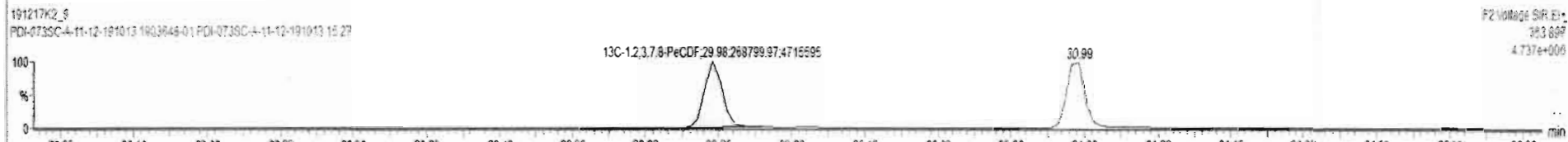
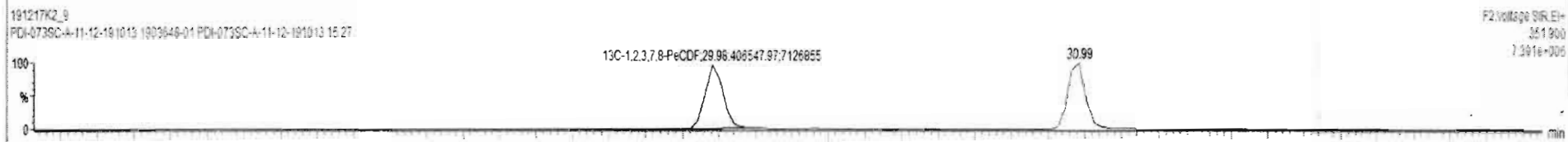
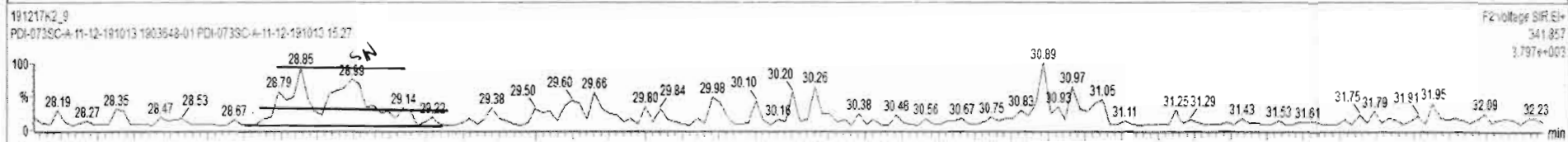
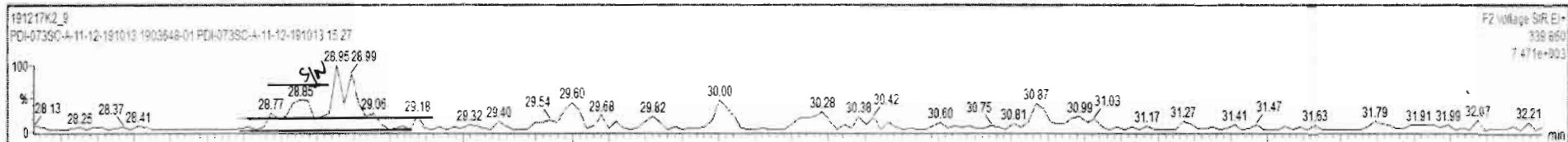




191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15.27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	n/y	RRF	wt/wt	Pred.RT	RT	Pred.R.	RRT	RRT Fax	Conc.	%Rec	DL	EMPC
34	13C-OCDF	5.41e5	0.87	NO	0.5925	10.015	41.97	42.00	1.229	1.229	NO	284.7	66.3	0.590	
35	37C-2,3,7,8-TCDD	2.65e5			1.0695	10.015	26.17	26.18	1.028	1.029	NO	75.22	94.2	0.0818	
36	13C-1,2,3,4-TCDD	6.59e5	0.79	NO	1.0000	10.015	25.45	25.45	1.000	1.000	NO	199.7	100	0.458	
37	13C-1,2,3,4-TCDF	9.41e5	0.73	NO	1.0000	10.015	23.55	23.57	1.000	1.000	NO	199.7	100	0.567	
38	13C-1,2,3,4,6,8-HwCDF	6.89e5	0.53	NO	1.0000	10.015	24.16	24.16	1.000	1.000	NO	199.7	100	0.698	
39	Total Tetra-Dioxins				0.9249	10.015	24.62		0.000		NO	0.0000		0.140	0.2729
40	Total Penta-Dioxins				0.9046	10.015	29.96		0.000		NO	0.2403		0.0618	0.3875
41	Total Hexa-Dioxins				0.9675	10.015	33.83		0.000		NO	1.411		0.157	2.558
42	Total Hepta-Dioxins				1.0375	10.015	36.80		0.000		NO	4.777		0.215	4.777
43	Total Tetra-Furans				0.9376	10.015	23.61		0.000		NO	1.515		0.123	1.723
44	1st Func. Penta-Furans				0.9762	10.015	27.04		0.000		NO	0.07754		0.0132	0.07754
45	Total Penta-Furans				0.9762	10.015	29.27		0.000		NO			0.0275	
46	Total Hexa-Furans				1.1806	10.015	33.56		0.000		NO			0.0401	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



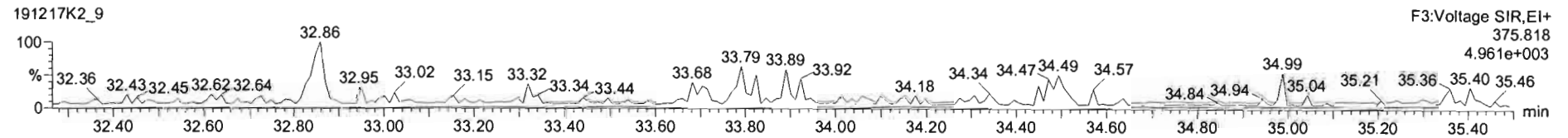
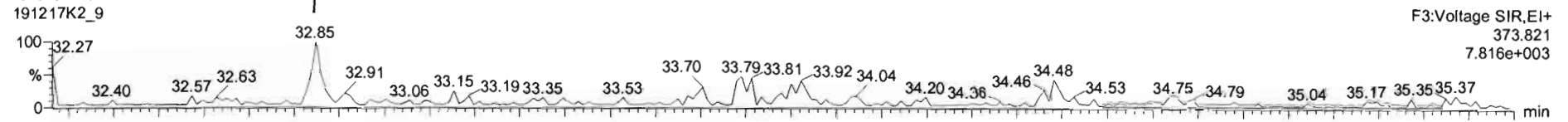
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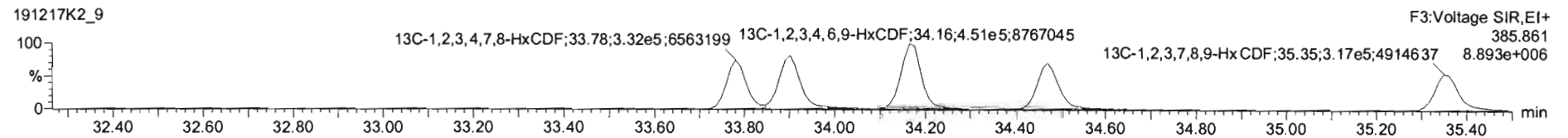
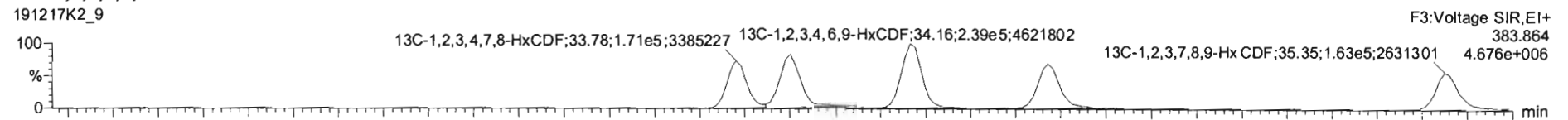
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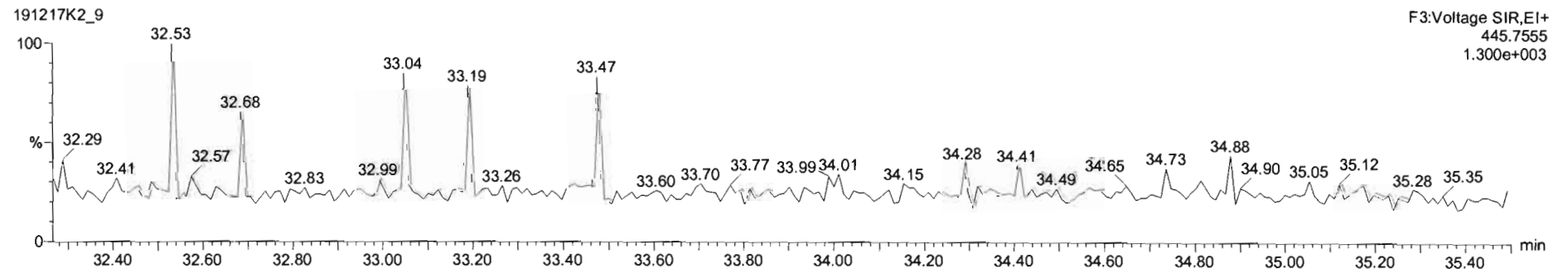
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13C-1,2,3,4,7,8-HxCDF



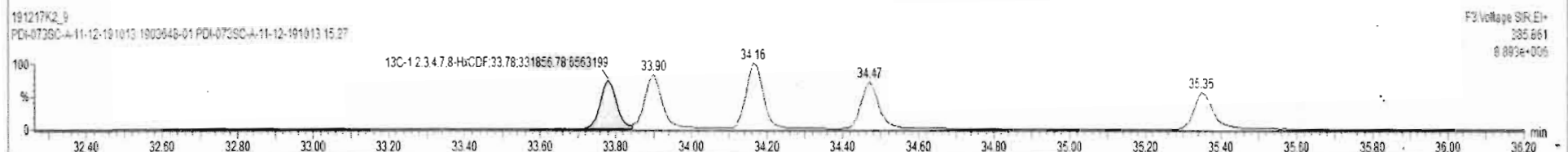
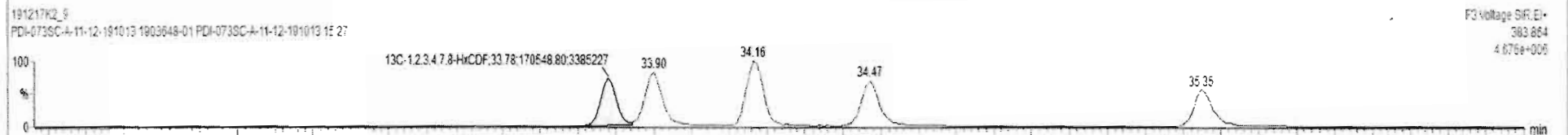
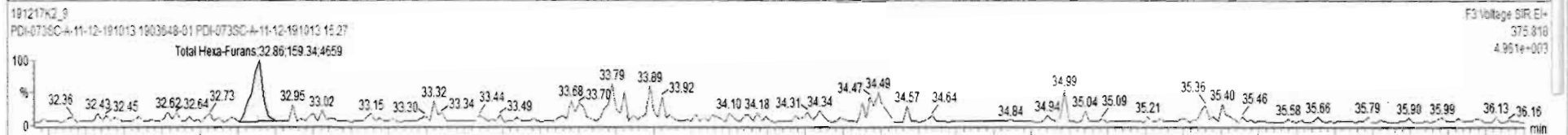
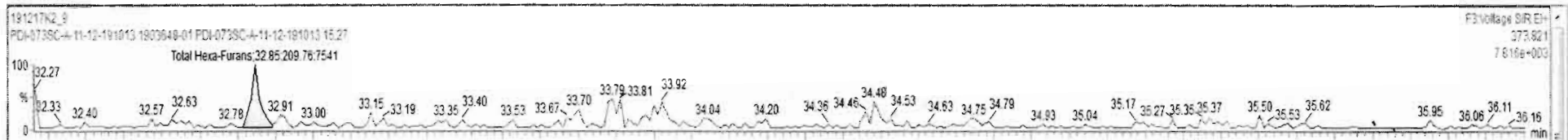
DPE3



191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15.27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
38	38 13C-1,2,3,4,6,9-HxCDF	6.88e5	0.53	NO	1.0000	10.015	34.16	34.16	1.000	1.000	NO	199.7	100	0.096	
39	39 Total Tetra-Dioxins				0.9249	10.015	24.62		0.000		NO	0.0000		0.140	0.2727
40	40 Total Penta-Dioxins				0.9046	10.015	29.96		0.000		NO	0.2403		0.0618	0.3875
41	41 Total Hexa-Dioxins				0.9675	10.015	33.63		0.000		NO	1.411		0.157	2.558
42	42 Total Hepta-Dioxins				1.0375	10.015	36.80		0.000		NO	4.777		0.215	4.777
43	43 Total Tetra-Furans				0.9376	10.015	23.61		0.000		NO	1.515		0.123	1.723
44	44 1st Func. Penta-Furans				0.9762	10.015	27.04		0.000		NO	0.07754		0.0132	0.07754
45	45 Total Penta-Furans				0.9762	10.015	29.27		0.000		NO			0.0275	
46	46 Total Hexa-Furans				1.1806	10.015	33.56		0.000		NO	0.1199		0.0401	0.1199
47	47 Total Hepta-Furans				1.1300	10.015	37.83		0.000		NO	0.0000		0.0445	0.1827
48	48 PFK1														
49	49 PFK2														
50	50 PFK3														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.85	2.098e2	1.593e2	1.240	1.32	NO	0.11591	0.11591

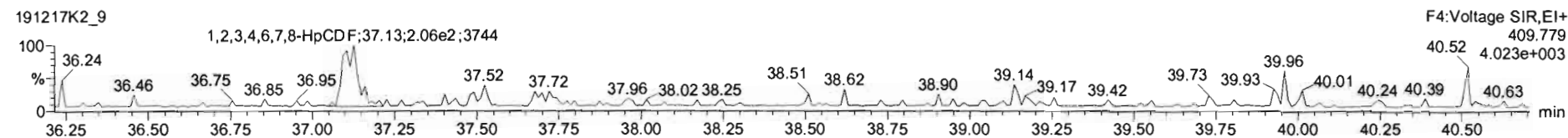
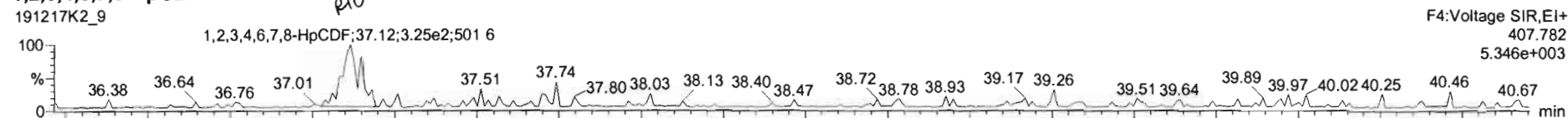


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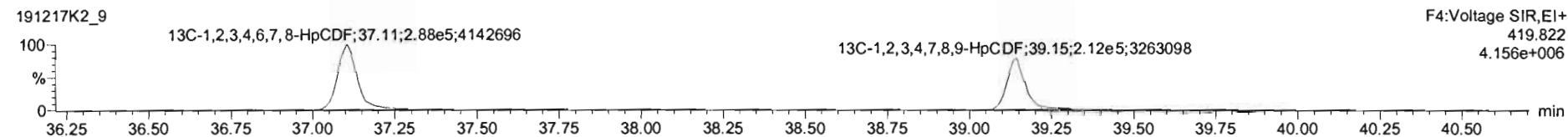
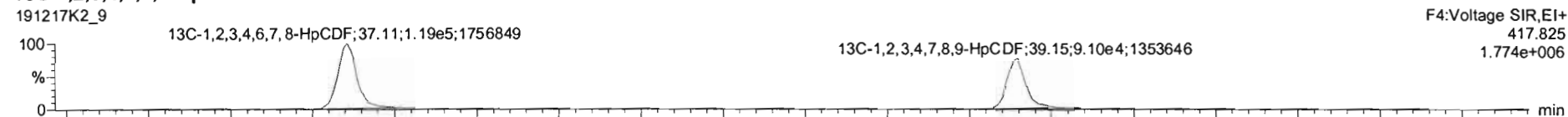
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

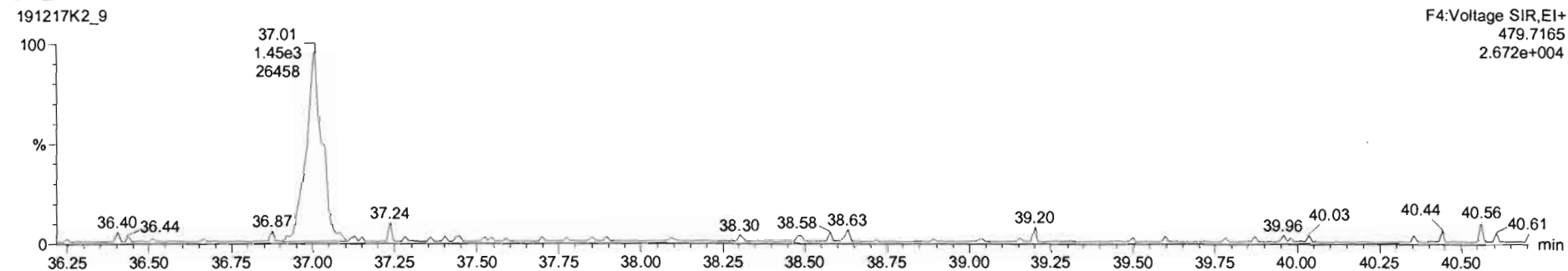
1,2,3,4,6,7,8-HpCDF



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



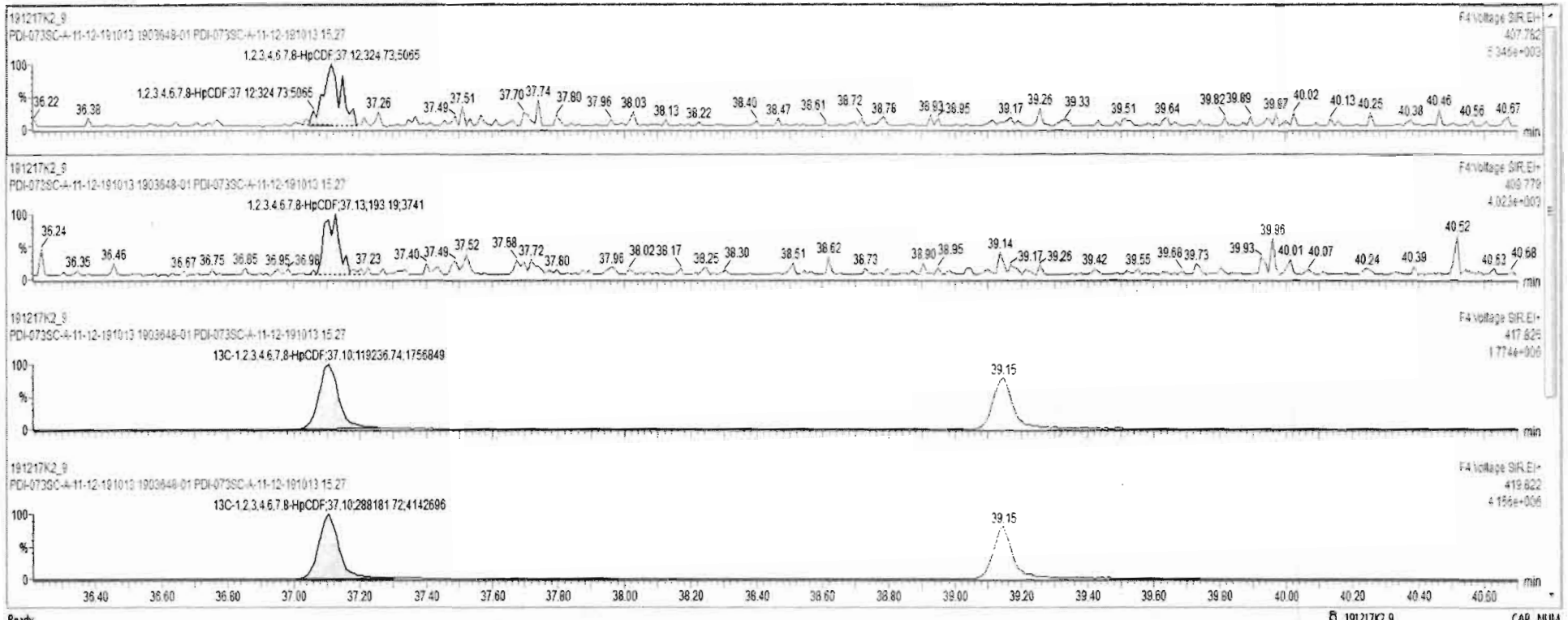
DPE4



191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15.27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	6.89e5	0.53	NO	1.0000	10.015	34.16	34.16	1.000	1.000	NO	199.7	100	0.696	
39	Total Tetra-Dioxins				0.9249	10.015	24.62		0.000		NO	0.0000		0.140	0.2727
40	Total Penta-Dioxins				0.9048	10.015	29.96		0.000		NO	0.2403		0.0618	0.3875
41	Total Hexa-Dioxins				0.9675	10.015	33.63		0.000		NO	1.411		0.157	2.558
42	Total Hepta-Dioxins				1.0375	10.015	38.80		0.000		NO	4.777		0.215	4.777
43	Total Tetra-Furans				0.9376	10.015	23.21		0.000		NO	1.515		0.123	1.723
44	1st Func. Penta-Furans				0.9762	10.015	27.04		0.000		NO	0.07754		0.0132	0.07754
45	Total Penta-Furans				0.9762	10.015	29.27		0.000		NO			0.0275	
46	Total Hexa-Furans				1.1608	10.015	33.56		0.000		NO	0.1199		0.0401	0.1199
47	Total Hepta-Furans				1.1300	10.015	37.83		0.000		NO	0.0000		0.0445	0.1710
48	PFK1														
49	PFK2														
50	PFK3														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.14	37.12	3.247e2	1.932e2	1.040	1.66	YES	0.17096	0.00000



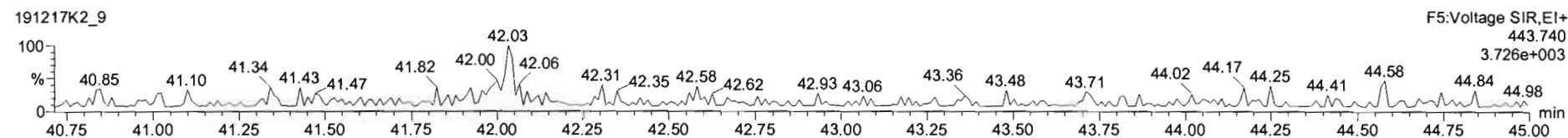
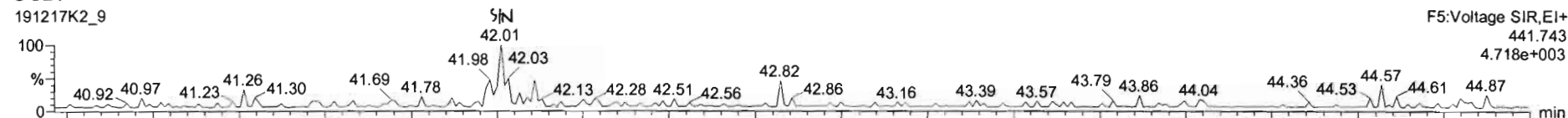
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

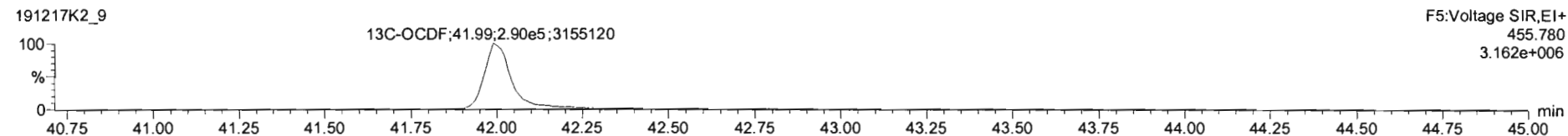
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013

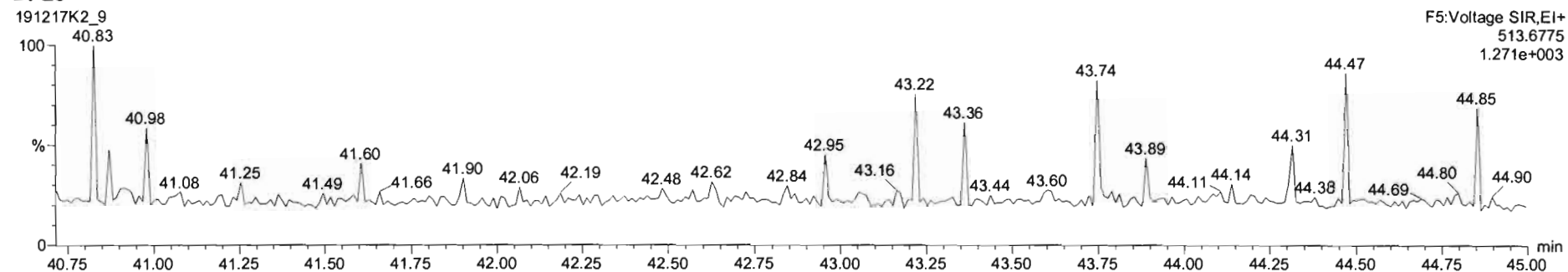
OCDF



13C-OCDF



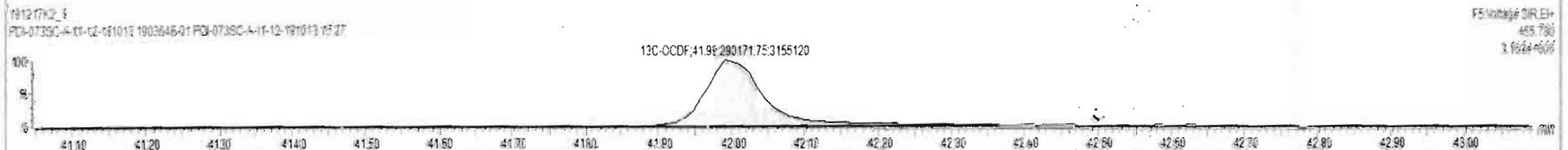
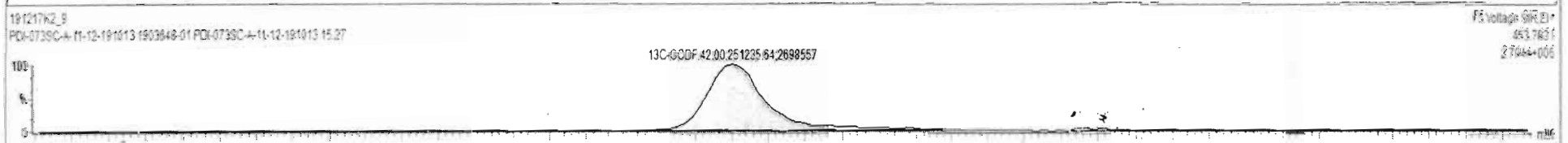
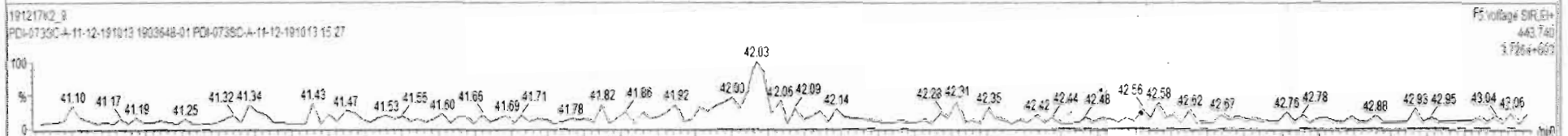
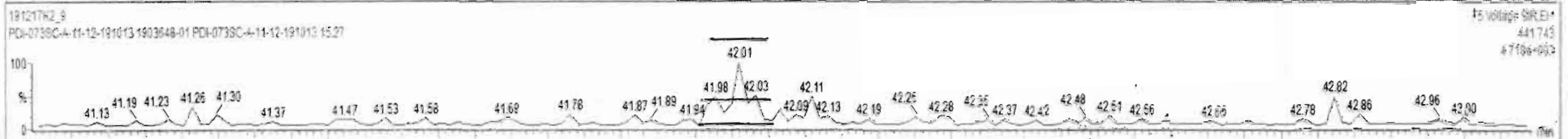
DPE5



191217K2_9 - 1903648-01 PDI-073SC-A-11-12-191013 15:27 - PDI-073SC-A-11-12-191013

#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
10	10 2,3,4,7,8-PeCDF				1.0049	10.015	31.02		1.001		YES			0.0650	
11	11 1,2,3,4,7,8-HxCDF				1.2434	10.015	33.76		1.000		YES			0.0630	
12	12 1,2,3,6,7,8-HxCDF				1.0850	10.015	33.91		1.000		YES			0.0637	
13	13 2,3,4,6,7,8-HxCDF				1.1008	10.015	34.51		1.001		YES			0.0712	
14	14 1,2,3,7,8,9-HxCDF				1.0728	10.015	35.35		1.000		YES			0.0941	
15	15 1,2,3,4,6,7,8-HpCDF	5.18e2	1.66	YES	1.1300	10.015	37.14	37.12	1.001	1.000	NO	0.2247		0.0765	0.1710
16	16 1,2,3,4,7,8,9-HpCDF				1.2609	10.015	39.15		1.000		YES			0.0914	
17	17 OCDF				1.1025	10.015	42.00		1.000		YES			0.170	
18	18 13C-2,3,7,8-TCDD	6.76e5	0.80	NO	1.0489	10.015	26.15	26.15	1.027	1.028	NO	195.5	97.9	0.437	
19	19 13C-1,2,3,7,8-PeCDD	4.86e5	0.62	NO	0.7429	10.015	31.29	31.29	1.230	1.229	NO	160.4	99.4	0.613	
20	20 13C-1,2,3,4,7,8-HxCDD	3.45e5	1.23	NO	0.6463	10.015	34.64	34.65	1.014	1.014	NO	156.2	78.2	0.508	
21	21 13C-1,2,3,6,7,8-HxCDD	4.28e5	1.22	NO	0.7767	10.015	34.73	34.75	1.017	1.017	NO	159.5	79.9	0.423	
22	22 13C-1,2,3,7,8,9-HxCDD	3.69e5	1.18	NO	0.8595	10.015	35.01	35.02	1.025	1.025	NO	162.0	81.1	0.498	

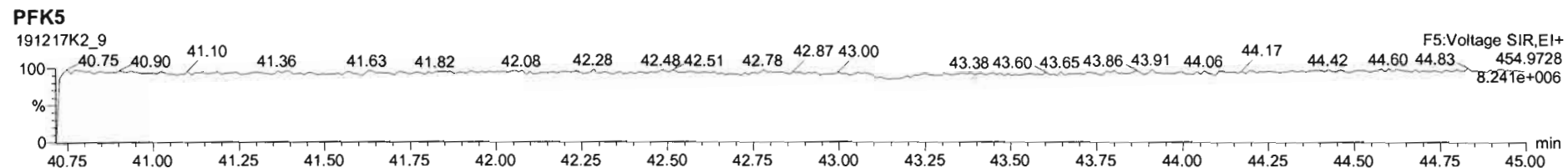
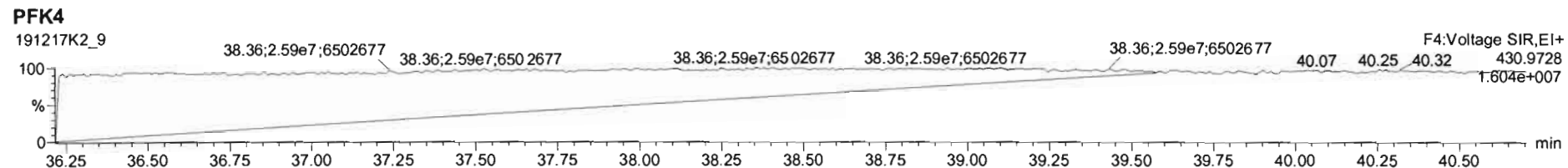
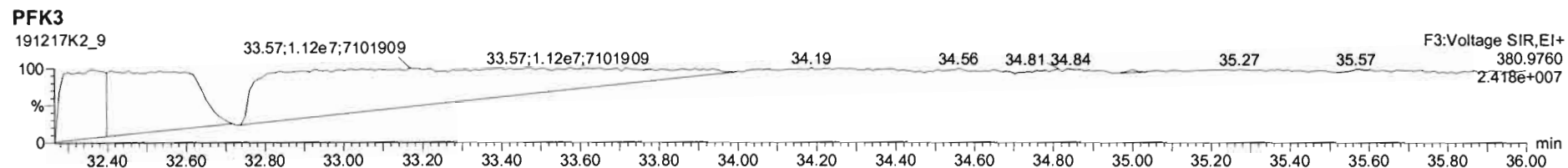
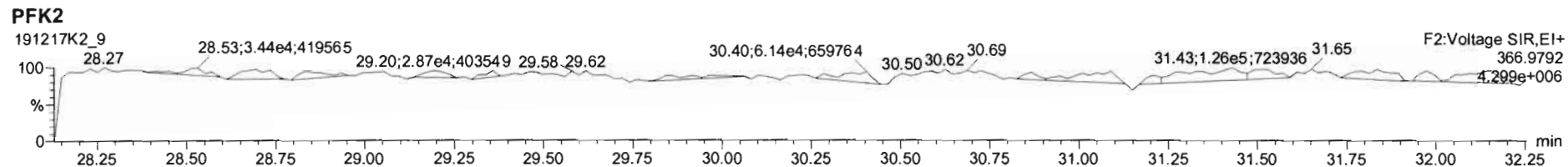
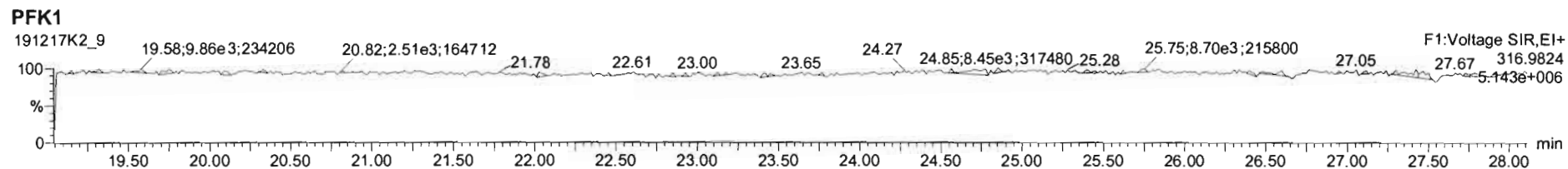
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1										



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_9, Date: 17-Dec-2019, Time: 20:18:05, ID: 1903648-01 PDI-073SC-A-11-12-191013 15.27, Description: PDI-073SC-A-11-12-191013



Dataset: U:\VG11.PRO\Results\191217K2\191217K2-8.qld

Last Altered: Friday, December 20, 2019 11:10:10 Pacific Standard Time

Printed: Friday, December 20, 2019 11:20:15 Pacific Standard Time

EL 12/20/19

C 12/26/19

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.925	10.041	✓ 26.20		1.00		YES			0.128	
2	2 1,2,3,7,8-PeCDD				0.905	10.041	31.33		1.00		YES			0.145	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.041	34.67		1.00		YES			0.171	
4	4 1,2,3,6,7,8-HxCDD				0.967	10.041	34.76		1.00		YES			0.174	
5	5 1,2,3,7,8,9-HxCDD				0.978	10.041	35.07		1.00		YES			0.200	
6	6 1,2,3,4,6,7,8-HpCDD	2292.732	1.148	NO	1.04	10.041	38.55	38.58	1.00	1.00	NO	1.830		0.257	1,830
7	7 OCDD	9309.317	0.949	NO	0.972	10.041	41.81	41.83	1.00	1.00	NO	11.09		0.492	11.09
8	8 2,3,7,8-TCDF				0.938	10.041	25.20		1.00		YES			0.124	
9	9 1,2,3,7,8-PeCDF				0.976	10.041	30.02		1.00		YES			0.0867	
10	10 2,3,4,7,8-PeCDF				1.00	10.041	31.02		1.00		YES			0.0855	
11	11 1,2,3,4,7,8-HxCDF				1.24	10.041	33.79		1.00		YES			0.0657	
12	12 1,2,3,6,7,8-HxCDF				1.10	10.041	33.92		1.00		YES			0.0674	
13	13 2,3,4,6,7,8-HxCDF				1.18	10.041	34.52		1.00		YES			0.0695	
14	14 1,2,3,7,8,9-HxCDF				1.07	10.041	35.38		1.00		YES			0.103	
15	15 1,2,3,4,6,7,8-HpCDF	384.214	1.145	NO	1.13	10.041	37.15	37.11	1.00	1.00	NO	0.1912		0.0685	0.1912
16	16 1,2,3,4,7,8,9-HpCDF				1.26	10.041	39.16		1.00		YES			0.123	
17	17 OCDF				1.10	10.041	42.01		1.00		YES			0.183	
18	18 13C-2,3,7,8-TCDD	574829.750	0.793	NO	1.05	10.041	26.16	26.17	1.03	1.03	NO	190.7	95.7	0.505	
19	19 13C-1,2,3,7,8-PeCDD	404217.266	0.615	NO	0.743	10.041	31.31	31.31	1.23	1.23	NO	189.3	95.0	0.403	
20	20 13C-1,2,3,4,7,8-HxCDD	301265.594	1.214	NO	0.646	10.041	34.66	34.66	1.01	1.01	NO	161.0	80.8	0.611	
21	21 13C-1,2,3,6,7,8-HxCDD	350737.156	1.220	NO	0.777	10.041	34.76	34.76	1.02	1.02	NO	156.0	78.3	0.509	
22	22 13C-1,2,3,7,8,9-HxCDD	326164.547	1.225	NO	0.659	10.041	35.03	35.03	1.02	1.02	NO	170.8	85.8	0.599	
23	23 13C-1,2,3,4,6,7,8-HpCDD	240569.164	1.094	NO	0.534	10.041	38.53	38.54	1.13	1.13	NO	155.6	78.1	0.594	
24	24 13C-OCDD	344078.281	0.883	NO	0.470	10.041	41.81	41.81	1.22	1.22	NO	252.7	63.4	0.819	
25	25 13C-2,3,7,8-TCDF	786967.031	0.718	NO	0.977	10.041	25.17	25.17	0.99	0.99	NO	191.2	96.0	0.604	
26	26 13C-1,2,3,7,8-PeCDF	595775.735	1.506	NO	0.778	10.041	30.00	30.00	1.18	1.18	NO	181.9	91.3	0.748	
27	27 13C-2,3,4,7,8-PeCDF	549730.157	1.477	NO	0.750	10.041	30.99	30.99	1.22	1.22	NO	174.1	87.4	0.776	
28	28 13C-1,2,3,4,7,8-HxCDF	420290.703	0.517	NO	0.845	10.041	33.80	33.79	0.99	0.99	NO	171.8	86.2	0.781	
29	29 13C-1,2,3,6,7,8-HxCDF	499489.594	0.514	NO	1.03	10.041	33.91	33.91	0.99	0.99	NO	168.0	84.4	0.643	
30	30 13C-2,3,4,6,7,8-HxCDF	455399.047	0.523	NO	0.893	10.041	34.49	34.48	1.01	1.01	NO	176.2	88.5	0.739	

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-8.qld

Last Altered: Friday, December 20, 2019 11:10:10 Pacific Standard Time

Printed: Friday, December 20, 2019 11:20:15 Pacific Standard Time

Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	401140.391	0.519	NO	0.734	10.041	35.39	35.38	1.04	1.03	NO	188.7	94.7	0.899	
32	32 13C-1,2,3,4,6,7,8-HpCDF	354170.226	0.416	NO	0.754	10.041	37.11	37.12	1.09	1.09	NO	162.2	81.4	0.641	
33	33 13C-1,2,3,4,7,8,9-HpCDF	243844.742	0.451	NO	0.539	10.041	39.13	39.16	1.14	1.15	NO	156.3	78.5	0.897	
34	34 13C-OCDF	485762.532	0.914	NO	0.593	10.041	42.00	42.01	1.23	1.23	NO	283.2	71.1	0.780	
35	35 37Cl-2,3,7,8-TCDD	195826.422			1.07	10.041	26.18	26.18	1.03	1.03	NO	63.71	80.0	0.110	
36	36 13C-1,2,3,4-TCDD	572446.969	0.769	NO	1.00	10.041	25.45	25.47	1.00	1.00	NO	199.2	100	0.530	
37	37 13C-1,2,3,4-TCDF	838675.281	0.739	NO	1.00	10.041	23.55	23.58	1.00	1.00	NO	199.2	100	0.591	
38	38 13C-1,2,3,4,6,9-HxCDF	576633.765	0.536	NO	1.00	10.041	34.16	34.19	1.00	1.00	NO	199.2	100	0.660	
39	39 Total Tetra-Dioxins				0.925	10.041	24.62		0.00		NO	0.3621		0.128	0.9604
40	40 Total Penta-Dioxins				0.905	10.041	29.96		0.00		NO	0.0000		0.0683	0.4314
41	41 Total Hexa-Dioxins				0.967	10.041	33.63		0.00		NO	1.579		0.188	2.591
42	42 Total Hepta-Dioxins				1.04	10.041	38.80		0.00		NO	1.830		0.257	4.478
43	43 Total Tetra-Furans				0.938	10.041	23.61		0.00		NO	1.293		0.124	1.293
44	44 1st Func. Penta-Furans				0.976	10.041	27.04		0.00		NO			0.0159	
45	45 Total Penta-Furans				0.976	10.041	29.27		0.00		NO			0.0466	
46	46 Total Hexa-Furans				1.18	10.041	33.56		0.00		NO	0.1155		0.0378	0.1155
47	47 Total Hepta-Furans				1.13	10.041	37.83		0.00		NO	0.1912		0.0799	0.1912

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-8.qld

Last Altered: Friday, December 20, 2019 11:10:10 Pacific Standard Time

Printed: Friday, December 20, 2019 11:20:40 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	9.67e2	5.75e5	0.728	NO	24.62	23.80	0.3621	0.3621
2	39 Total Tetra-Dioxins	0.00e0	5.75e5	1.125	YES	24.62	22.28	0.0000	0.2913
3	39 Total Tetra-Dioxins	0.00e0	5.75e5	0.955	YES	24.62	21.89	0.0000	0.3070

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	4.04e5	0.559	NO	29.96	29.03	0.0000	0.2288
2	40 Total Penta-Dioxins	0.00e0	4.04e5	0.494	YES	29.96	29.56	0.0000	0.2025

Hexa-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.024	YES	33.63	34.00	0.0000	0.5984
2	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.841	YES	33.63	33.75	0.0000	0.4141
3	41 Total Hexa-Dioxins	2.50e3	0.00e0	1.314	NO	33.63	33.21	1.579	1.579

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.29e3	2.41e5	1.148	NO	38.55	38.58	1.830	1.830
2	42 Total Hepta-Dioxins	0.00e0	2.41e5	1.208	YES	38.80	37.52	0.0000	2.648

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	8.38e2	7.87e5	0.797	NO	23.61	25.62	0.2263	0.2263
2	43 Total Tetra-Furans	3.21e3	7.87e5	0.791	NO	23.61	20.91	0.8672	0.8672
3	43 Total Tetra-Furans	7.40e2	7.87e5	0.839	NO	23.61	19.81	0.1997	0.1997

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-8.qld

Last Altered: Friday, December 20, 2019 11:10:10 Pacific Standard Time

Printed: Friday, December 20, 2019 11:20:40 Pacific Standard Time

Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	3.04e2	0.00e0	1.149	NO	33.56	32.85	0.1155	0.1155

Hepta-Furans

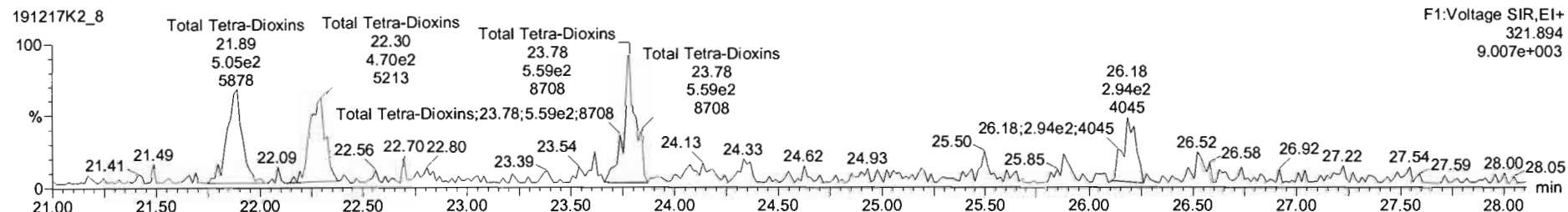
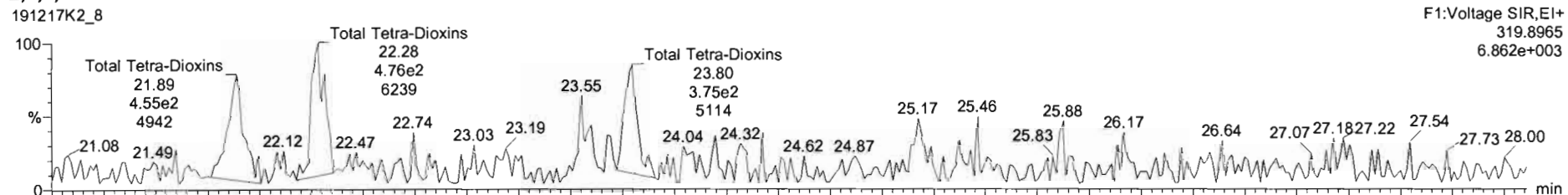
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1	15 1,2,3,4,6,7,8-HpCDF	3.84e2	3.54e5	1.145	NO	37.15	37.11	0.1912	0.1912

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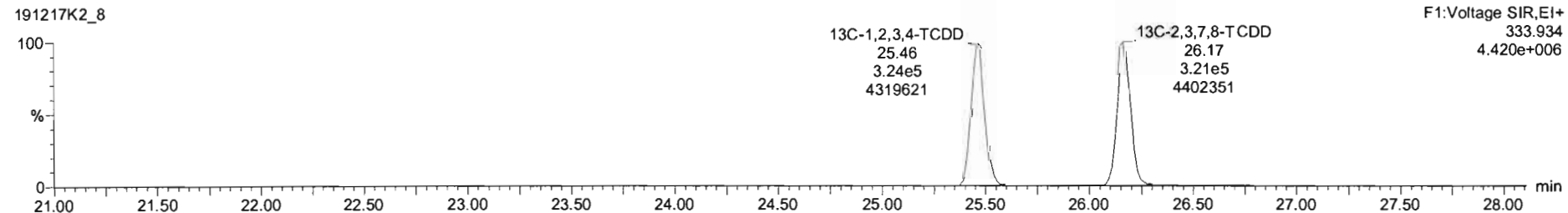
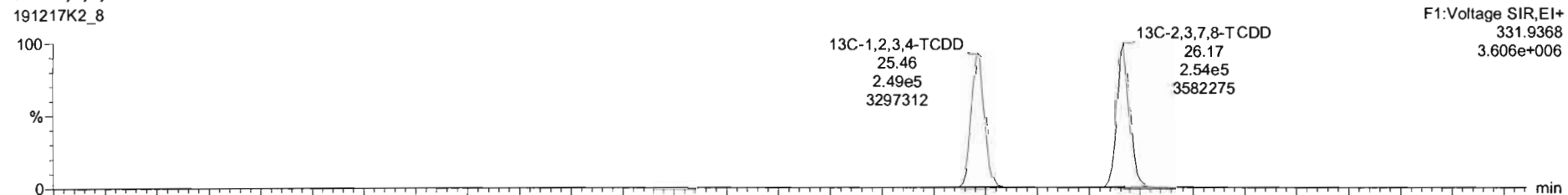
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2,3,7,8-TCDD



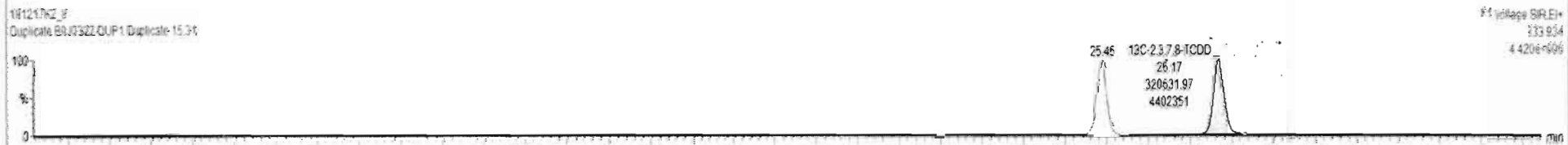
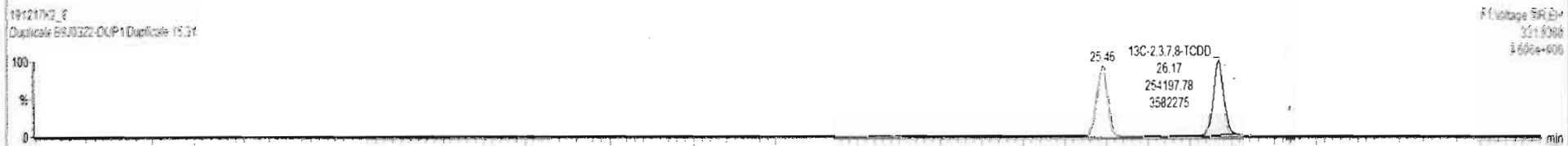
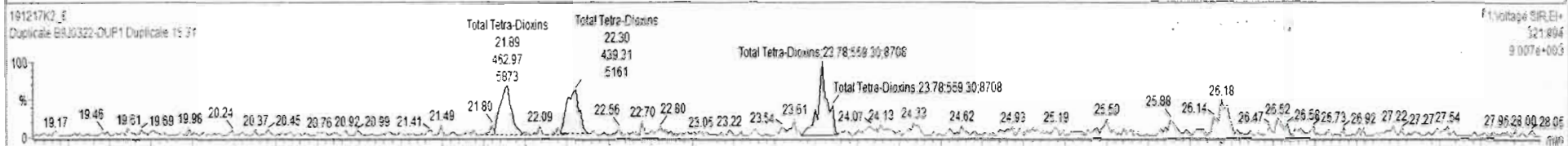
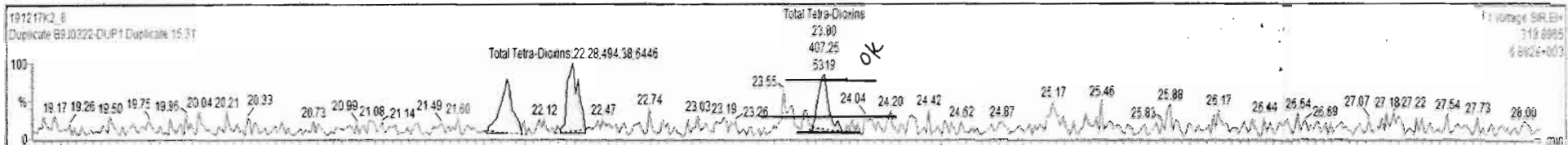
13C-2,3,7,8-TCDD



191217K2_8 - B9J0322-DUP1 Duplicate 15.31 - Duplicate

#	Name	Resp	IS Reso	IS#	RA	n/y	RRF	w/dvol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flags	No Sci	Feats
37	13C-1,2,3,4-TCDF	8.39e5	8.39e5	37	0.74	NO		10.041	23.55	23.58	1.000	1.000	NO	199.2	100	0.591		bb	NO	
38	13C-1,2,3,4,6,8-HxCDF	5.77e5	5.77e5	38	0.54	NO		10.041	34.16	34.19	1.000	1.000	NO	199.2	100	0.660		bb	NO	
39	Total Tetra-Dioxins	5.75e5						10.041	24.62			0.000	NO	0.3621		0.128	0.9604		NO	1
40	Total Penta-Dioxins	4.04e5						10.041	29.96			0.000	NO			0.0682			NO	
41	Total Hexa-Dioxins	0.00e0						10.041	33.63			0.000	NO	2.206		0.188	2.620		NO	2
42	Total Hepta-Dioxins	2.41e5						10.041	38.80			0.000	NO	1.848		0.257	4.418		NO	1
43	Total Tetra-Furans	7.87e5						10.041	23.61			0.000	NO	1.513		0.124	2.055		NO	4
44	1st Func. Penta-Furans	0.00e0						10.041	27.04			0.000	NO			0.0159			NO	
45	Total Penta-Furans	0.00e0						10.041	29.27			0.000	NO			0.0468			NO	
46	Total Hexa-Furans	0.00e0						10.041	33.56			0.000	NO			0.0376			NO	
47	Total Hepta-Furans	0.00e0						10.041	37.83			0.000	NO			0.0799			NO	
48	PFK1																			
49	PFK2																			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primar...	I* Det...
1	39 Total Tetra-Dioxins	24.62	21.89	4.423e2	4.630e2	0.770	0.95	YES	0.30699	0.00000	MM	MM
2	39 Total Tetra-Dioxins	24.62	22.28	4.944e2	4.393e2	0.770	1.13	YES	0.29129	0.00000	MM	MM
3	39 Total Tetra-Dioxins	24.62	23.80	4.073e2	5.593e2	0.770	0.73	NO	0.36206	0.36206	MM	bb

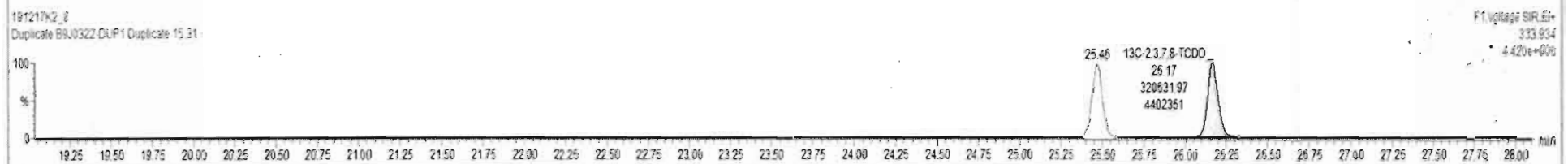
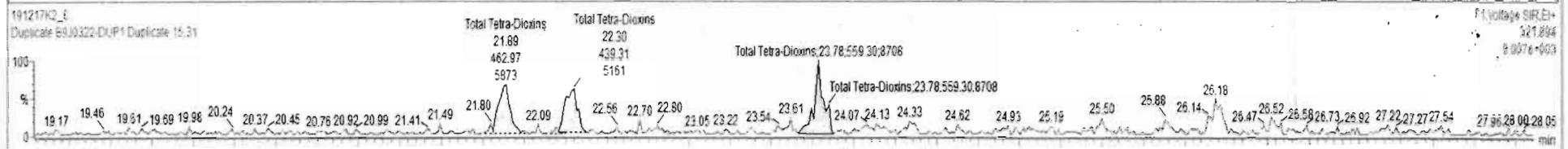
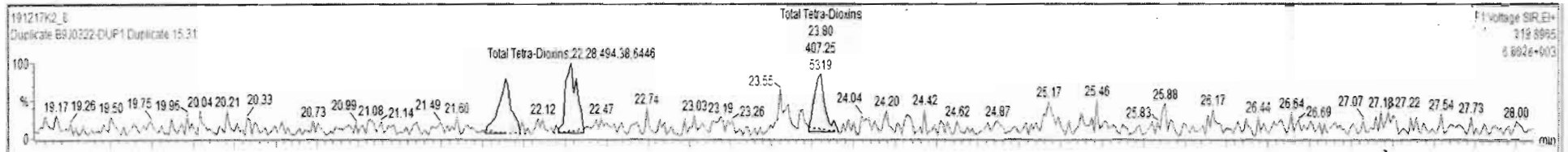




191217K2_8 - B9J0322-DUP1 Duplicate 15.31 - Duplicate

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flags	No Sci.	Peaks
37	13C-1,2,3,4-TCDF	6.39e5	6.39e5	37	0.74	NO		10.041	23.55	23.58	1.000	1.000	NO	199.2	100	0.591		bb	NO	
38	13C-1,2,3,4,6,8-HxCDF	5.77e5	5.77e5	38	0.54	NO		10.041	34.16	34.19	1.000	1.000	NO	199.2	100	0.660		bb	NO	
39	Total Tetra-Dioxins	6.75e5						10.041	24.62			0.000	NO	0.3621		0.128	0.9604		NO	1
40	Total Penta-Dioxins	4.04e5						10.041	29.96			0.000	NO			0.0663			NO	
41	Total Hexa-Dioxins	0.00e0						10.041	33.63			0.000	NO	2.236		0.168	2.620		NO	2
42	Total Hepta-Dioxins	2.41e5						10.041	38.80			0.000	NO	1.848		0.257	4.418		NO	1
43	Total Tetra-Furans	7.67e5						10.041	23.61			0.000	NO	1.513		0.124	2.055		NO	4
44	1st Func. Penta-Furans	0.00e0						10.041	27.04			0.000	NO			0.0159			NO	
45	Total Penta-Furans	0.00e0						10.041	29.27			0.000	NO			0.0466			NO	
46	Total Hexa-Furans	0.00e0						10.041	33.56			0.000	NO			0.0378			NO	
47	Total Hepta-Furans	0.00e0						10.041	37.83			0.000	NO			0.0799			NO	
48	PFK1																			
49	PFK2																			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primar.	1° Det.
1	39 Total Tetra-Dioxins	24.62	21.89	4.423e2	4.630e2	0.770	0.96	YES	0.30698	0.00000	MM	MM
2	39 Total Tetra-Dioxins	24.62	22.28	4.944e2	4.393e2	0.770	1.13	YES	0.29129	0.00000	MM	MM
3	39 Total Tetra-Dioxins	24.62	23.60	4.079e2	5.592e2	0.770	0.73	NO	0.36208	0.36208	MM	bb



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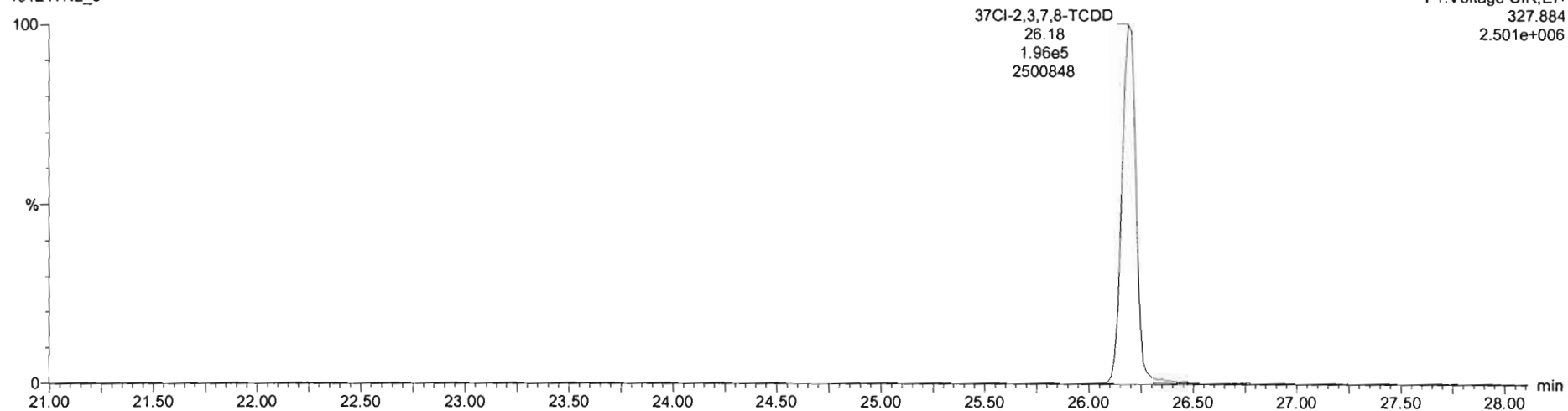
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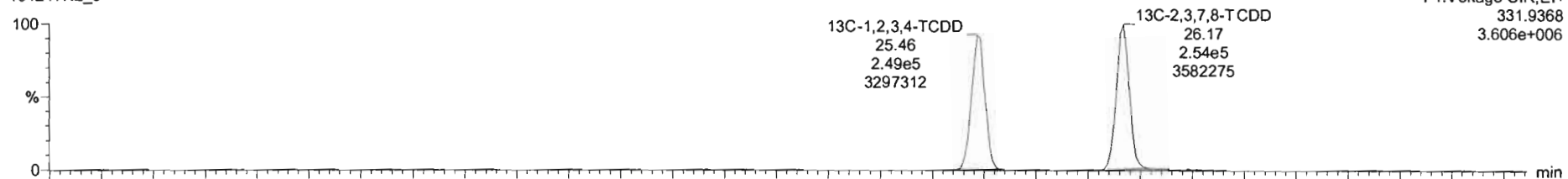
37Cl-2,3,7,8-TCDD

191217K2_8

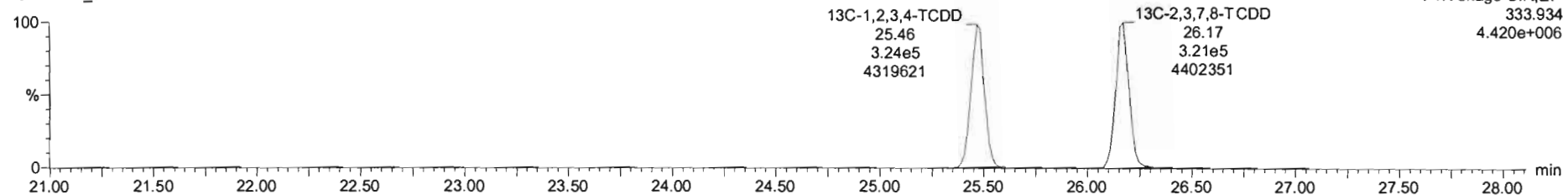


13C-1,2,3,4-TCDD

191217K2_8



191217K2_8



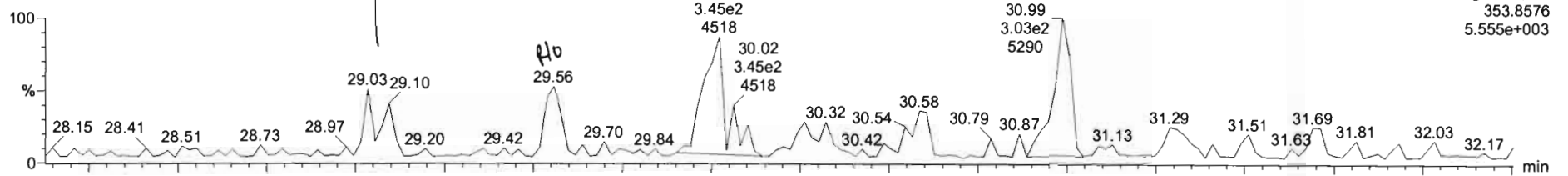
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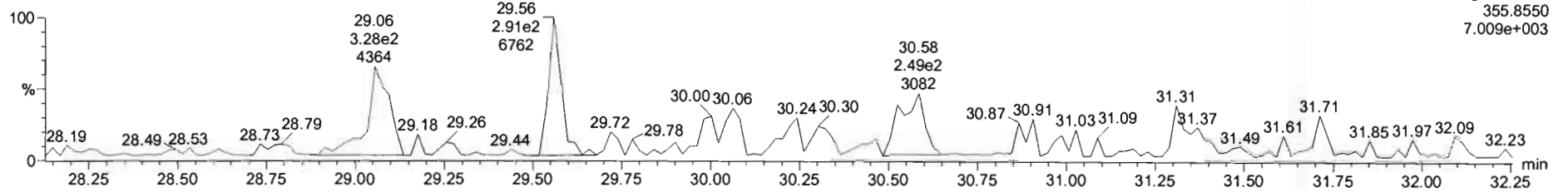
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1,2,3,7,8-PeCDD

191217K2_8

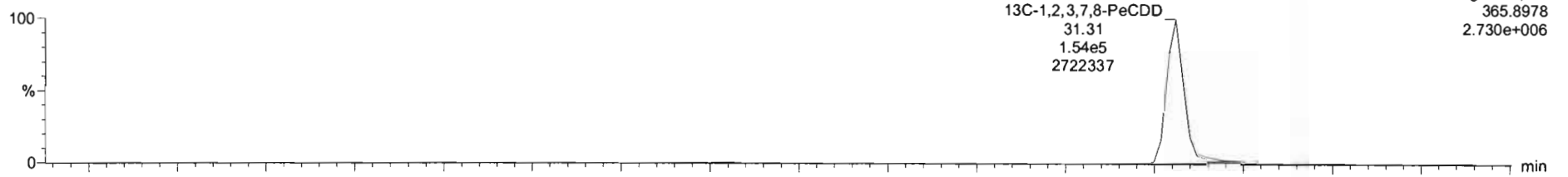


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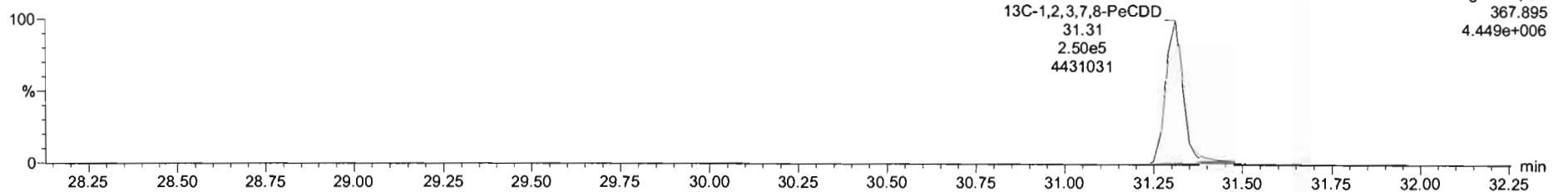


13C-1,2,3,7,8-PeCDD

191217K2_8



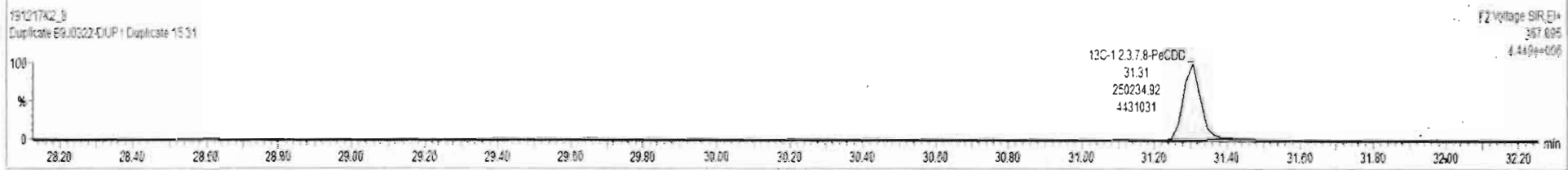
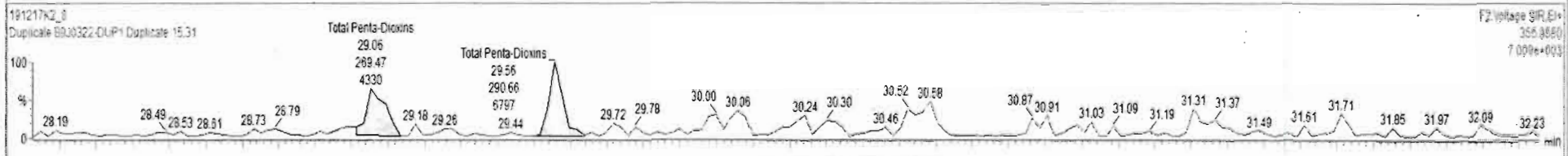
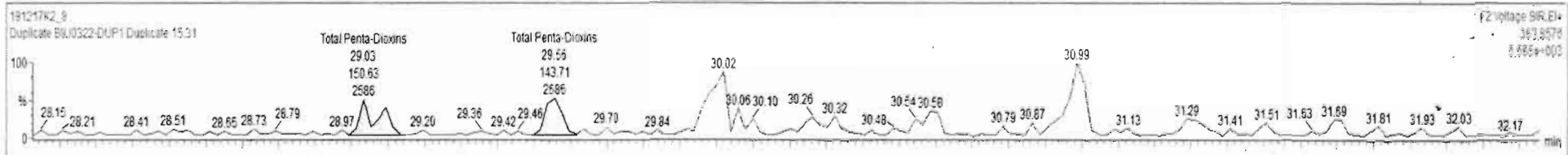
191217K2_8



191217K2_8-B9J0322-DUP1 Duplicate 15.31 - Duplicate

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	w/Vol	Pred RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	% Rec	DL	EMPC	Primary Flags	No Sol.	Peaks
37	13C-1,2,3,4-TCDF	8.36e5	6.39e5	37	0.74	NO		10.041	22.55	23.58	1.000	1.000	NO	199.2	100	0.591		bb	NO	
38	13C-1,2,3,4,6,9-HxCDF	5.77e5	5.77e5	38	0.54	NO		10.041	24.16	34.19	1.000	1.000	NO	199.2	100	0.600		bb	NO	
39	Total Tetra-Dioxins	5.75e5						10.041	24.62			0.000	NO	0.0021		0.128	0.9604		NO	1
40	Total Penta-Dioxins	4.04e5						10.041	29.96			0.000	NO	0.0000		0.0683	0.4314		NO	1
41	Total Hexa-Dioxins	0.00e0						10.041	33.63			0.000	NO	2.206		0.180	2.620		NO	2
42	Total Hepta-Dioxins	2.41e5						10.041	36.80			0.000	NO	1.848		0.257	4.418		NO	1
43	Total Tetra-Furans	7.67e5						10.041	23.81			0.000	NO	1.513		0.124	2.098		NO	4
44	1st Func. Penta-Furans	0.00e0						10.041	27.04			0.000	NO	0.0159					NO	
45	Total Penta-Furans	0.00e0						10.041	29.27			0.000	NO	0.0466					NO	
46	Total Hexa-Furans	0.00e0						10.041	33.56			0.000	NO	0.0378					NO	
47	Total Hepta-Furans	0.00e0						10.041	37.83			0.000	NO	0.0799					NO	
48	PFK1																			
49	PFK2																			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primar	1 st Det.
1	40 Total Penta-Dioxins	29.96	29.03	1.509e2	2.695e2	0.630	0.56	NO	0.22882	0.00000	MM	MM
2	40 Total Penta-Dioxins	29.96	29.56	1.437e2	2.907e2	0.630	0.48	YES	0.20253	0.00000	MM	MM

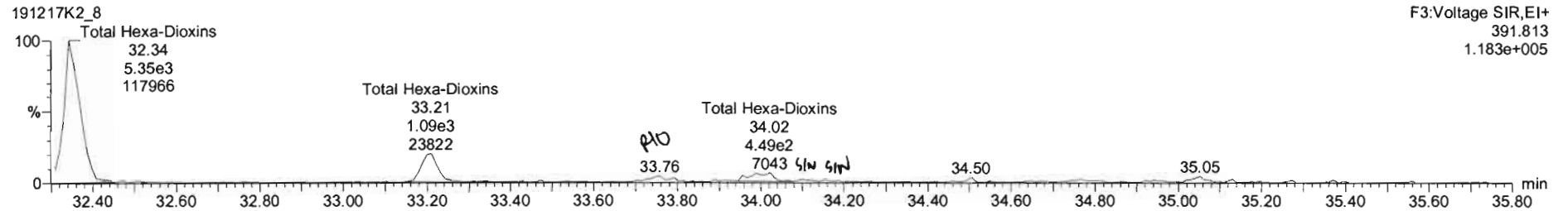
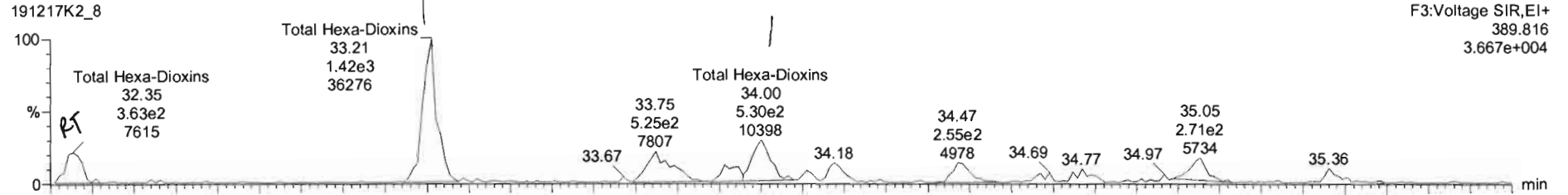


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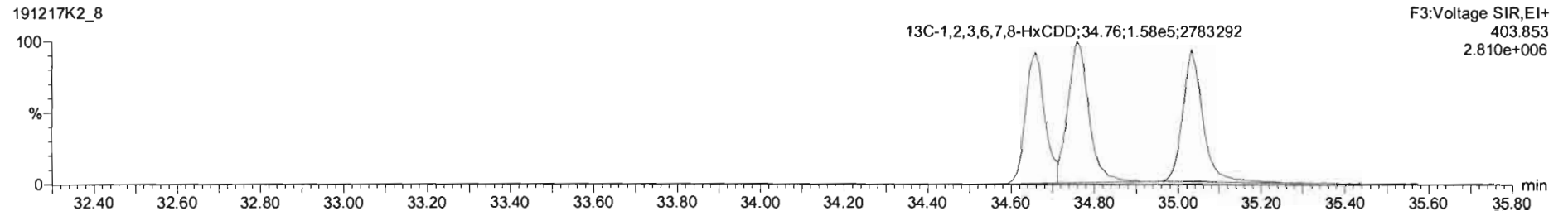
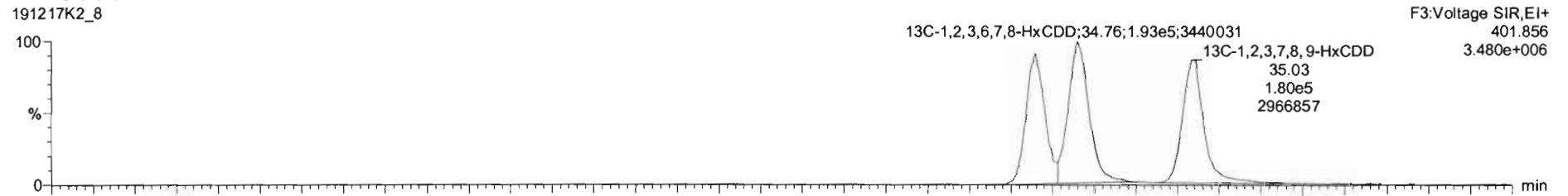
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1,2,3,4,7,8-HxCDD



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



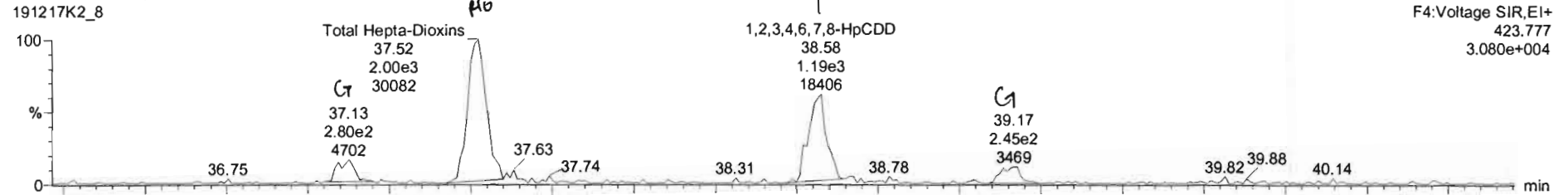
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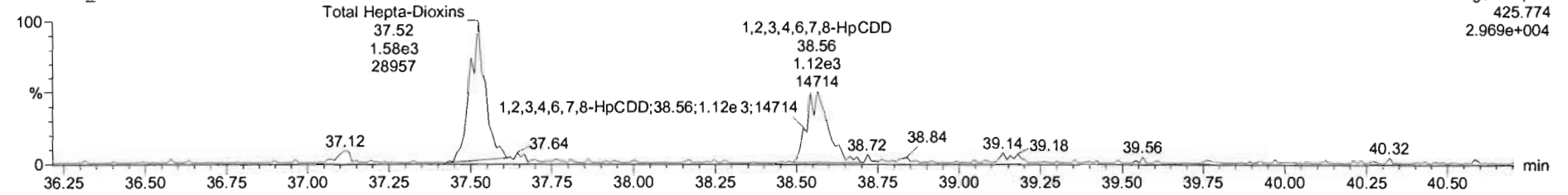
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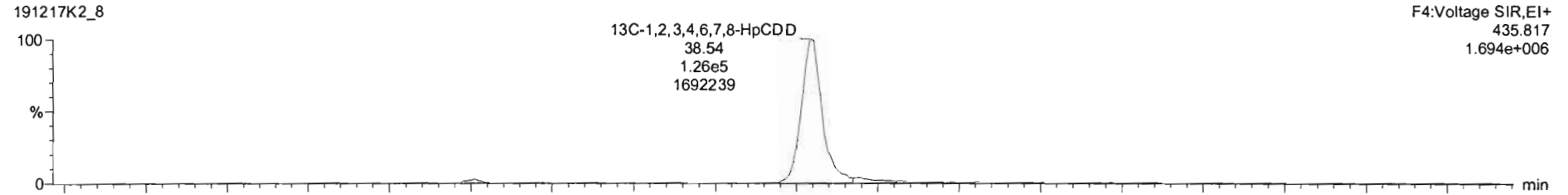
1,2,3,4,6,7,8-HpCDD



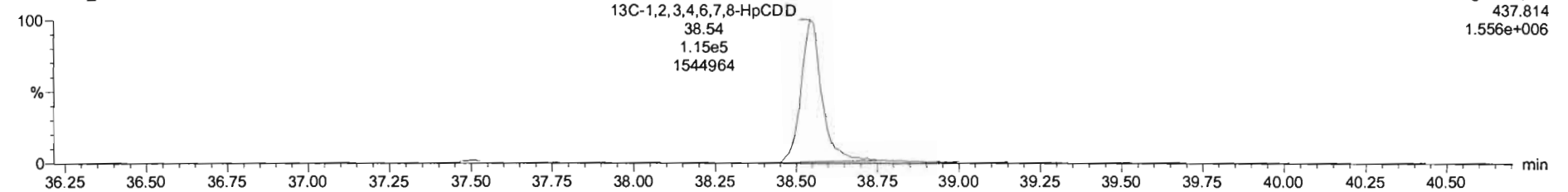
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13C-1,2,3,4,6,7,8-HpCDD



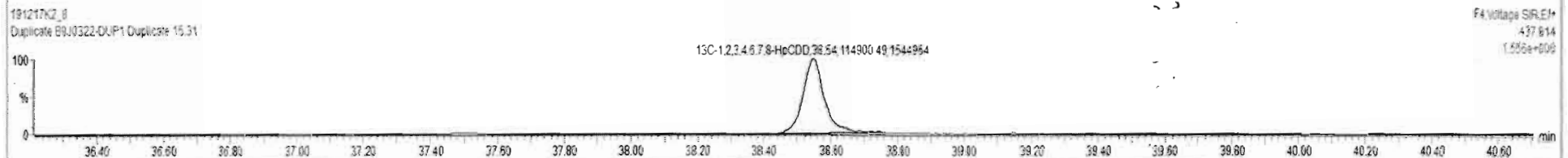
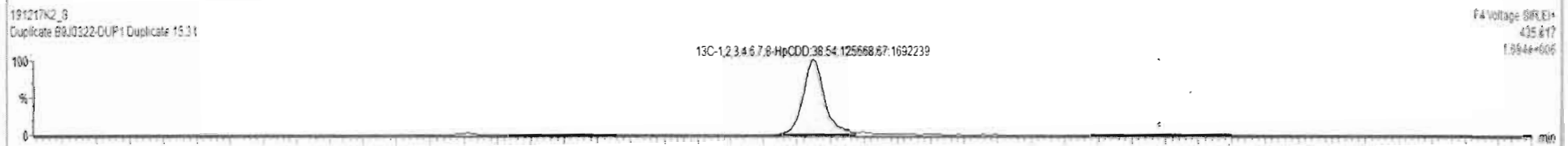
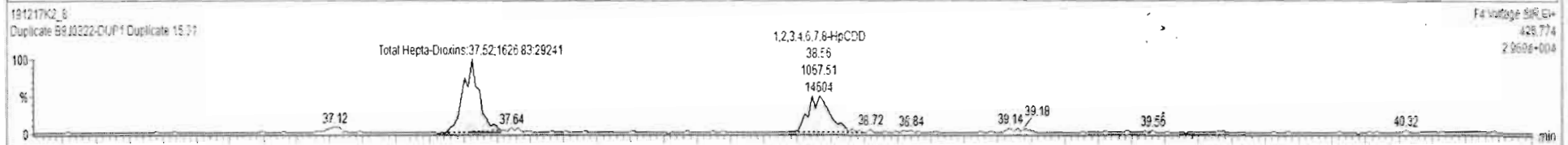
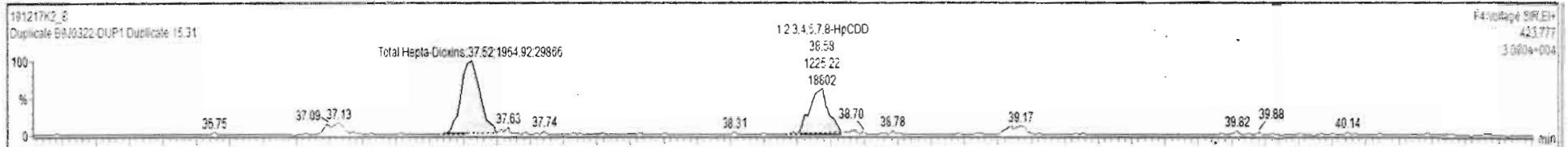
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191217K2_8-B9J0322-DUP1 Duplicate 15.31 - Duplicate

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wtVol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	% Rec	DL	EMPC	Primary Flags	No Sol.	Peaks
37	37	13C-1,2,3,4-TCDF	8.39e5	6.39e5	37	0.74	NO	10.041	23.55	23.58	1.000	1.000	NO	199.2	100	0.591		bb	NO	
38	38	13C-1,2,3,4,6,8-HxCDF	5.77e5	5.77e5	38	0.54	NO	10.041	34.16	34.19	1.000	1.000	NO	199.2	100	0.660		bb	NO	
39	39	Total Tetra-Dioxins	5.75e5					10.041	24.62		0.000	0.000	NO	0.3621		0.126	0.3604		NO	1
40	40	Total Penta-Dioxins	4.04e5					10.041	29.96		0.000	0.000	NO	0.0000		0.0683	0.4314		NO	1
41	41	Total Hexa-Dioxins	0.00e0					10.041	32.63		0.000	0.000	NO	1.579		0.188	2.591		NO	1
42	42	Total Hepta-Dioxins	2.41e5					10.041	38.80		0.000	0.000	NO	1.830		0.257	4.478		NO	1
43	43	Total Tetra-Furans	7.87e5					10.041	23.61		0.000	0.000	NO	1.513		0.124	2.059		NO	4
44	44	1st Func. Penta-Furans	0.00e0					10.041	27.04		0.000	0.000	NO			0.0159			NO	
45	45	Total Penta-Furans	0.00e0					10.041	29.27		0.000	0.000	NO			0.0466			NO	
46	46	Total Hexa-Furans	0.00e0					10.041	33.56		0.000	0.000	NO			0.0278			NO	
47	47	Total Hepta-Furans	0.00e0					10.041	37.83		0.000	0.000	NO			0.0796			NO	
48	48	PFK1																		
49	49	PFK2																		

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.	Prmer.	1 st Det.
1	42 Total Hepta-Dioxins	38.80	37.52	1.965e3	1.621e3	1.040	1.21	YES	2.6484	0.09000	MM	MM
2	8 1,2,3,4,6,7,8-HpCDD	38.55	38.56	1.225e3	1.060e3	1.040	1.15	NO	1.8296	1.8296	MM	MM



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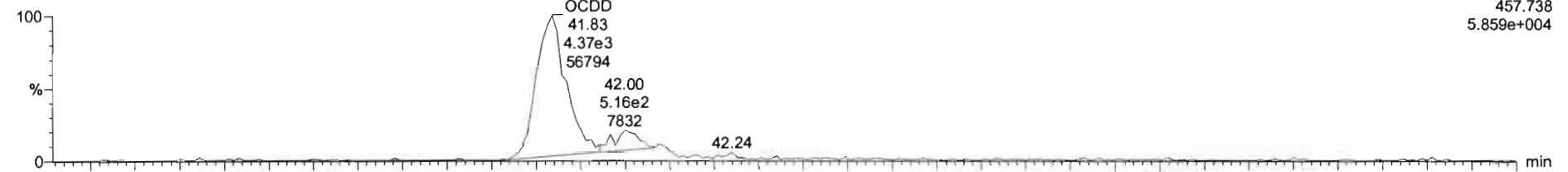
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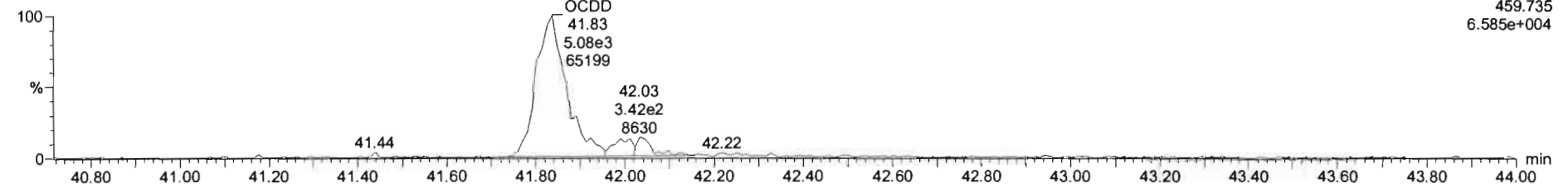
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OCDD

191217K2_8

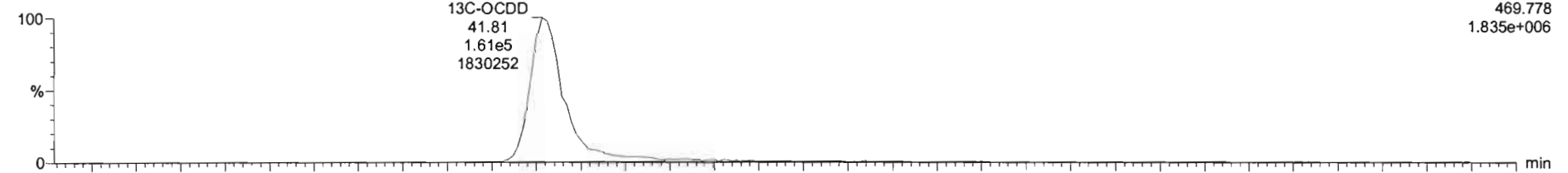


191217K2_8

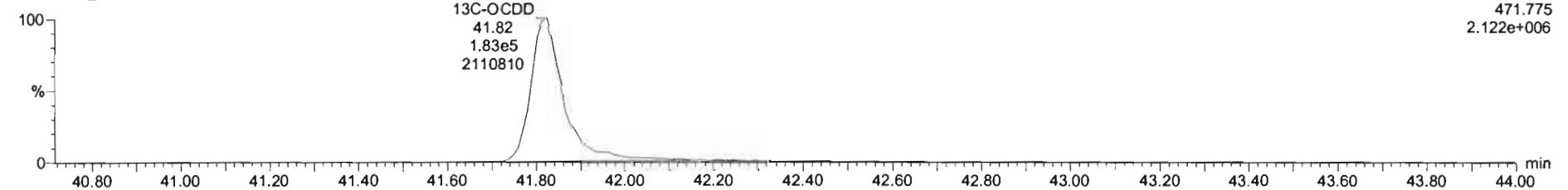


13C-OCDD

191217K2_8



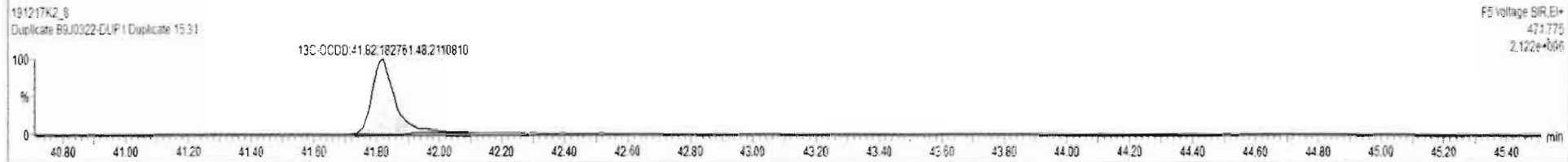
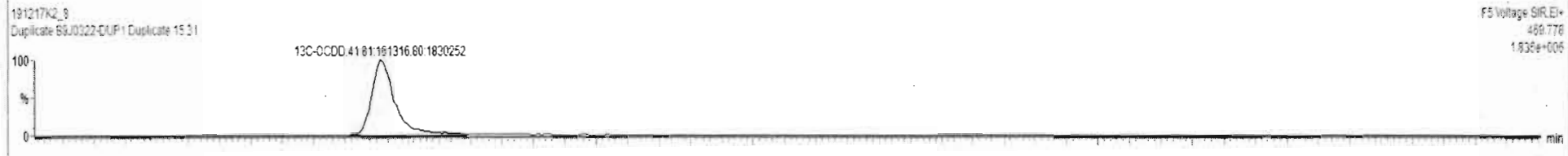
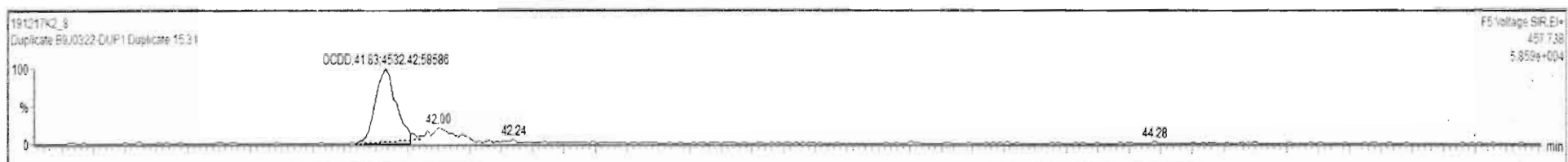
191217K2_8



191217K2_8 - B9J0322-DUP1 Duplicate 15.31 - Duplicate

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flags	No Sol.	Peaks
3	1,2,3,4,7,8-HxCDD		3.01e5	20				10.041	34.67			1.000	YES			0.171			NO	
4	1,2,3,6,7,8-HxCDD		3.51e5	21				10.041	34.76			1.000	YES			0.174			NO	
5	1,2,3,7,8,9-HxCDD		3.26e5	22				10.041	35.07			1.001	YES			0.200			NO	
6	1,2,3,4,6,7,8-HpCDD	2.29e3	2.41e5	23	1.15	NO		10.041	38.55	38.58	1.001	1.000	NO	1.830		0.257	1.830	MM	NO	
7	OCDD	9.31e3	3.44e5	24	0.95	NO		10.041	41.81	41.83	1.001	1.000	NO	11.09		0.492	11.09	MM	NO	
8	2,3,7,8-TCDF	8.16e2	7.67e5	25	0.82	YES		10.041	25.20	25.19	1.001	1.001	NO	0.2202		0.124	0.1930	bb	NO	
9	1,2,3,7,8-PeCDF		5.96e5	26				10.041	30.02			1.001	YES			0.0867			NO	
10	2,3,4,7,8-PeCDF		5.50e5	27				10.041	31.02			1.001	YES			0.0855			NO	
11	1,2,3,4,7,8-HxCDF		4.20e5	28				10.041	33.79			1.000	YES			0.0657			NO	
12	1,2,3,6,7,8-HxCDF		4.99e5	29				10.041	33.92			1.000	YES			0.0674			NO	
13	2,3,4,6,7,8-HxCDF		4.56e5	30				10.041	34.52			1.001	YES			0.0695			NO	
14	1,2,3,7,8,9-HxCDF		4.01e5	31				10.041	35.38			1.000	YES			0.103			NO	
15	1,2,3,4,6,7,8-HpCDF		3.54e5	32				10.041	37.15			1.001	YES			0.0976			NO	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primar...	1 st Det...
1												



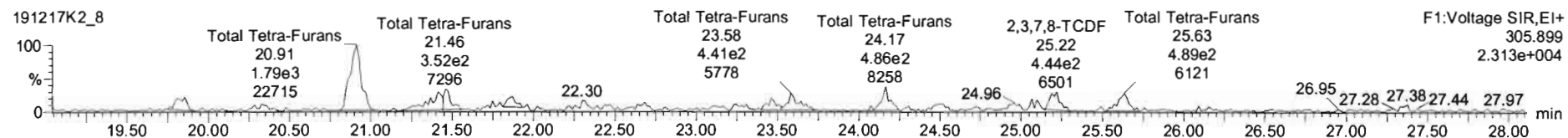
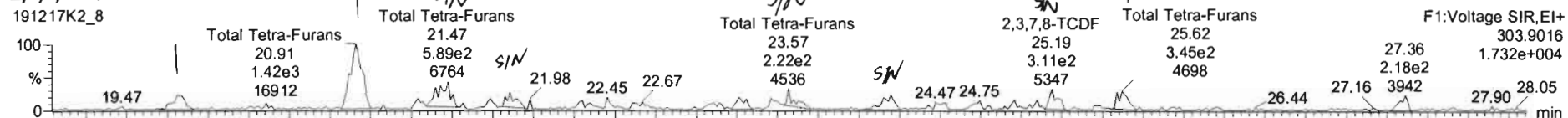
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

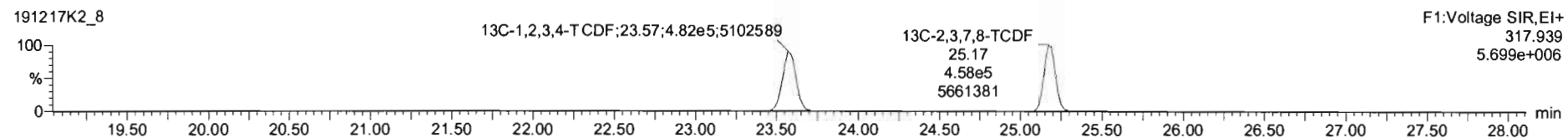
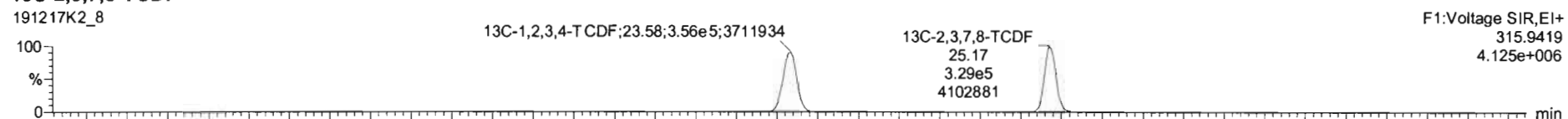
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate

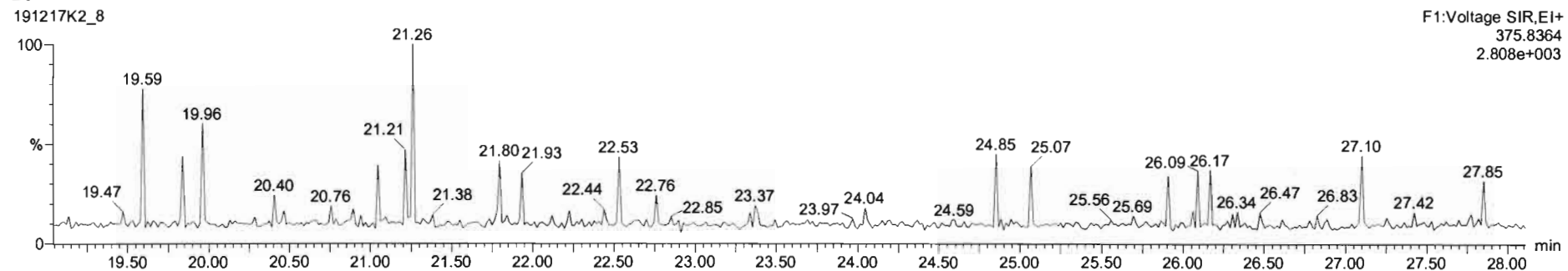
2,3,7,8-TCDF

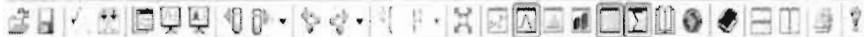


13C-2,3,7,8-TCDF



DPE1

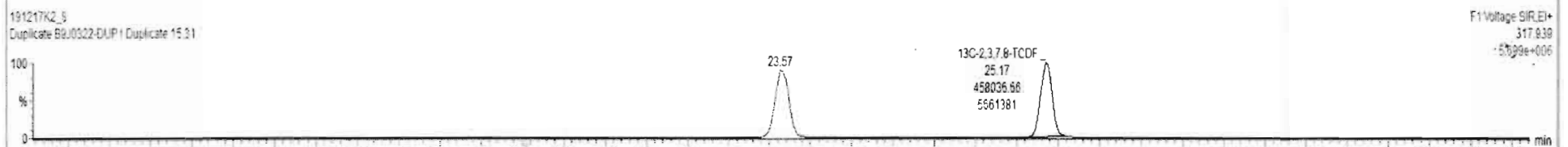
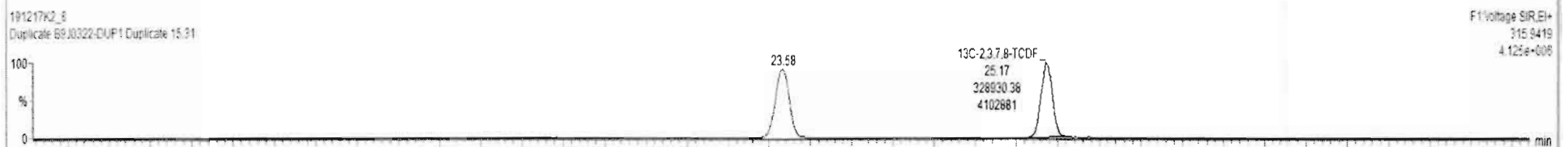
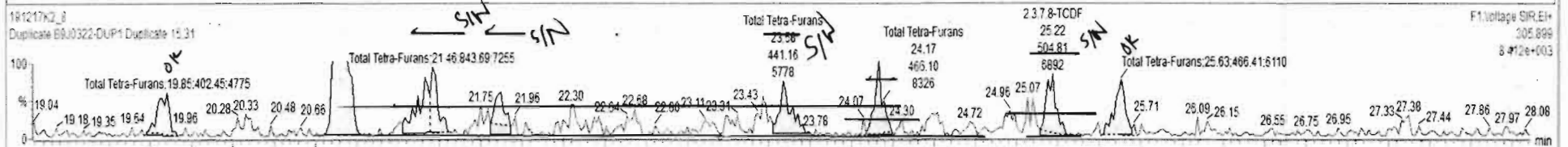
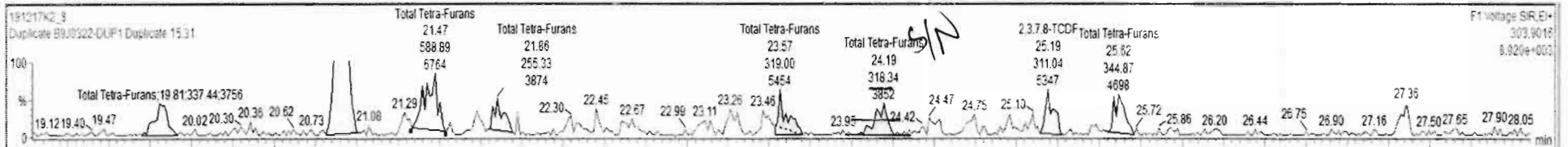




191217K2_8 - B9J0322-DUP1 Duplicate 15.31 - Duplicate

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flag	No Sol.	Peaks
38	13C-1,2,3,4,6,8-HxCDF	5.77e5	5.77e5	38	0.54	NO		10.041	24.16	24.19	1.000	1.000	NO	199.2	100	0.000		bb	NO	
39	Total Tetra-Dioxins	5.75e5						10.041	24.02			0.000	NO	0.3621		0.128	0.9604		NO	1
40	Total Penta-Dioxins	4.04e5						10.041	29.95			0.000	NO	0.0000		0.0663	0.4314		NO	1
41	Total Hexa-Dioxins	0.00e0						10.041	33.83			0.000	NO	1.579		0.188	2.591		NO	1
42	Total Hepta-Dioxins	2.41e5						10.041	38.80			0.000	NO	1.830		0.257	4.478		NO	1
43	Total Tetra-Furans	7.87e5						10.041	23.61			0.060	NO	2.254		0.124	2.447		NO	7
44	1st Furic. Penta-Furans	0.00e0						10.041	27.04			0.000	NO			0.0159			NO	
45	Total Penta-Furans	0.00e0						10.041	29.27			0.000	NO			0.0466			NO	
46	Total Hexa-Furans	0.00e0						10.041	33.56			0.000	NO			0.0378			NO	
47	Total Hepta-Furans	0.00e0						10.041	37.83			0.000	NO			0.0799			NO	
48	PFK1																			
49	PFK2																			
50	PFK3																			

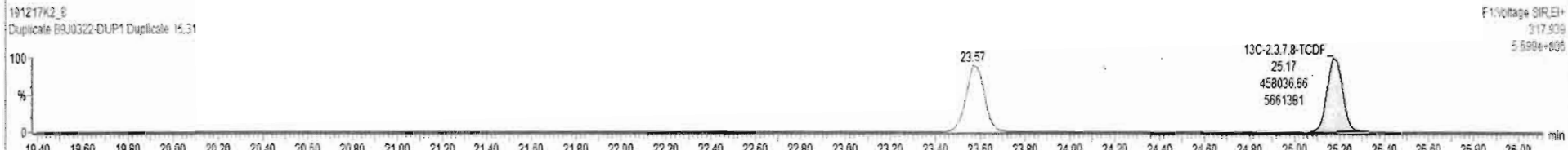
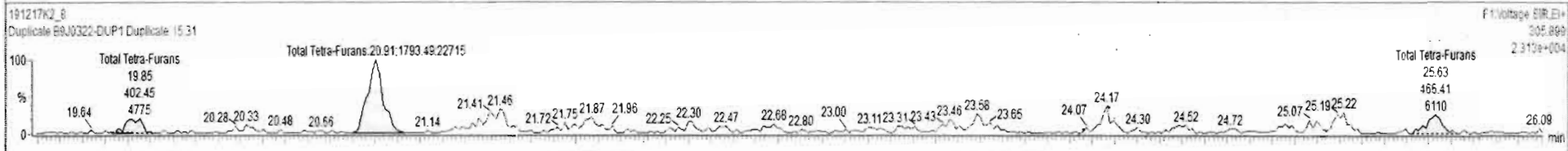
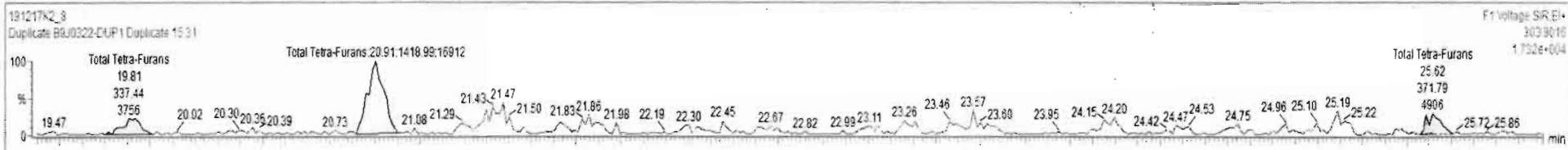
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primar	I st Det.
1	43 Total Tetra-Furans	23.61	19.81	3.374e2	4.025e2	0.770	0.64	NO	0.19972	0.19972	bb	MM
2	43 Total Tetra-Furans	23.61	20.91	1.419e3	1.793e3	0.770	0.75	NO	0.86716	0.86716	bb	bb
3	43 Total Tetra-Furans	23.61	21.47	5.889e2	8.437e2	0.770	0.70	NO	0.38670	0.38670	bb	MM
4	43 Total Tetra-Furans	23.61	21.86	2.553e2	3.541e2	0.770	0.72	NO	0.16449	0.16449	bb	MM



191217K2_8 - B9J0322-DUP1 Duplicate 15.31 - Duplicate

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wtVal	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flags	No Sol.	Peaks
36	13C-1,2,3,4-TCDD	5.72e5	5.72e5	36	0.77	NO		10.041	25.45	25.47	1.000	1.000	NO	199.2	100	0.530		bb	NO	
37	13C-1,2,3,4-TCDF	8.38e5	8.38e5	37	0.74	NO		10.041	23.55	23.58	1.000	1.000	NO	199.2	100	0.591		bb	NO	
38	13C-1,2,3,4,6,9-HxCDF	5.77e5	5.77e5	38	0.54	NO		10.041	34.16	34.19	1.000	1.000	NO	199.2	100	0.660		bb	NO	
39	Total Tetra-Dioxins	5.75e5						10.041	24.62		0.000	NO	0.3621		0.128	0.9604			NO	1
40	Total Penta-Dioxins	4.04e5						10.041	29.96		0.000	NO	0.0000		0.0683	0.4314			NO	1
41	Total Hexa-Dioxins	0.00e0						10.041	33.63		0.000	NO	1.579		0.138	2.591			NO	1
42	Total Hepta-Dioxins	2.41e5						10.041	38.20		0.000	NO	1.830		0.257	4.478			NO	1
43	Total Tetra-Furans	7.67e5						10.041	23.61		0.000	NO	1.293		0.124	1.293			NO	3
44	1st Func. Penta-Furans	0.00e0						10.041	27.04		0.000	NO			0.0159				NO	
45	Total Penta-Furans	0.00e0						10.041	29.27		0.000	NO			0.0466				NO	
46	Total Hexa-Furans	0.00e0						10.041	33.56		0.000	NO			0.0378				NO	
47	Total Hepta-Furans	0.00e0						10.041	37.83		0.000	NO			0.0799				NO	
48	PFK1																			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.	Primer	1° Det.
1	43 Total Tetra-Furans	23.61	19.81	3.37e2	4.02e2	0.770	0.84	NO	0.19972	0.19972	bb	MM
2	43 Total Tetra-Furans	23.61	20.91	1.419e2	1.793e2	0.770	0.79	NO	0.86716	0.86716	bb	bb
3	43 Total Tetra-Furans	23.61	25.62	3.718e2	4.664e2	0.770	0.80	NO	0.22626	0.22626	MM	MM

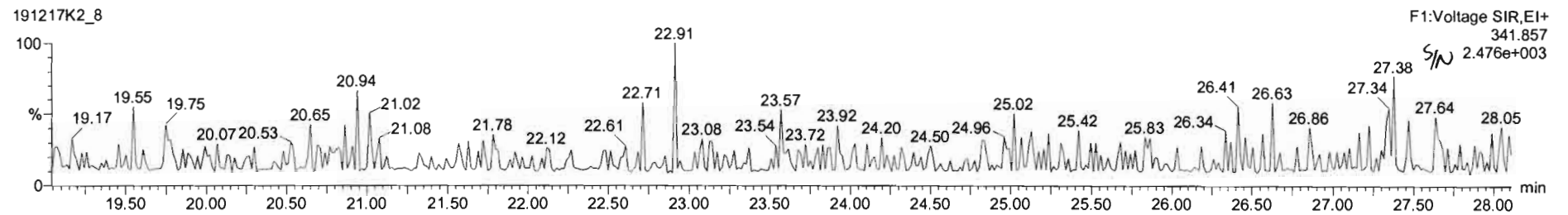
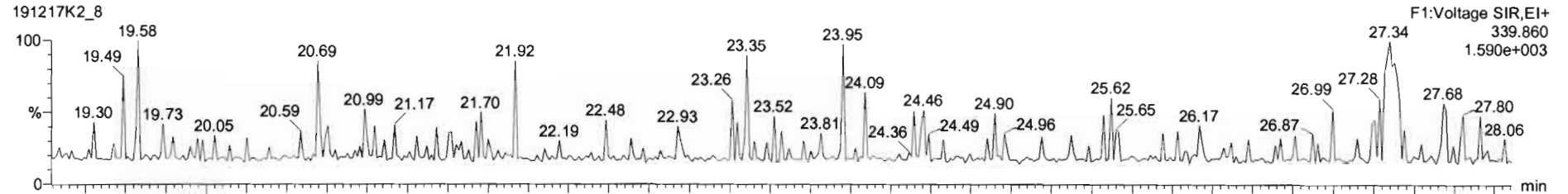


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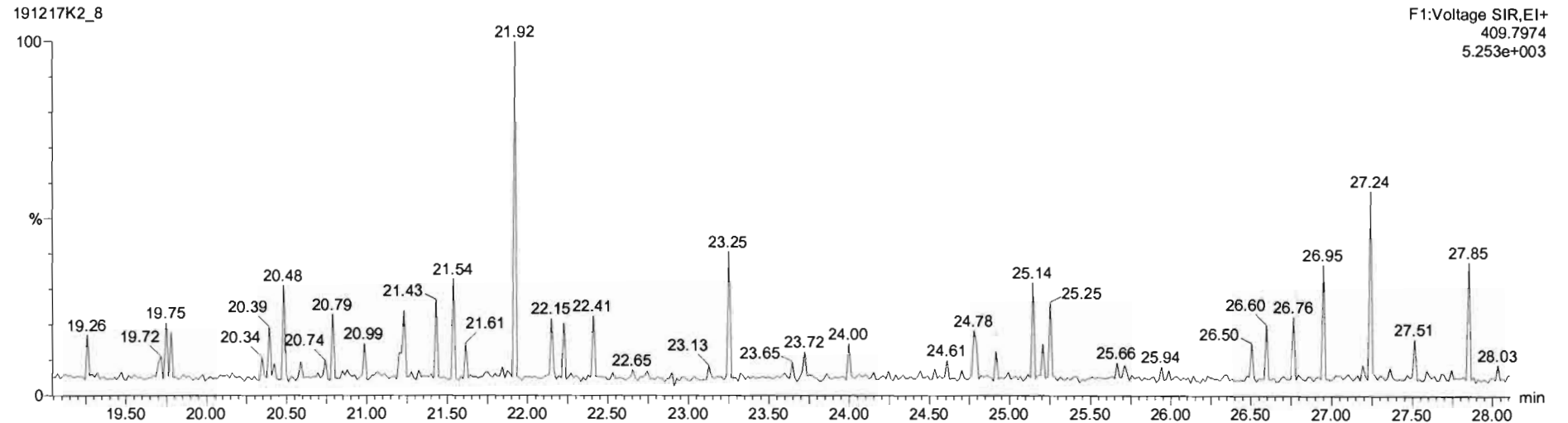
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate

1st Func. Penta-Furans



DPE6



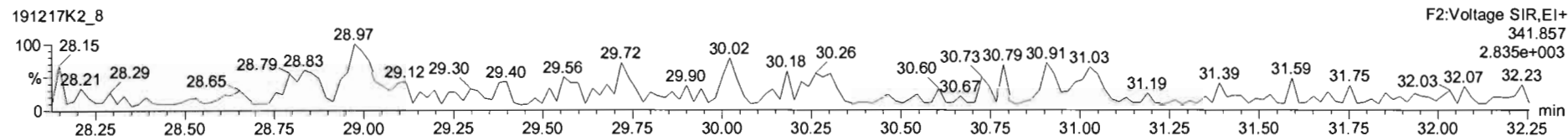
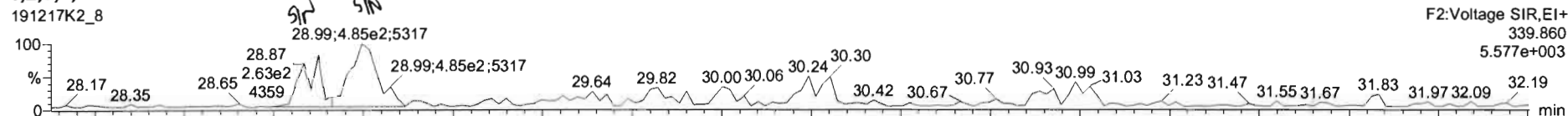
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

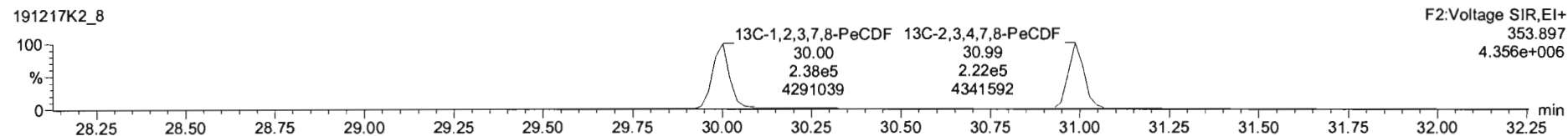
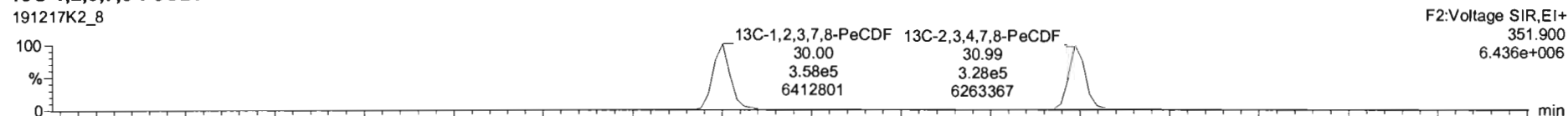
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate

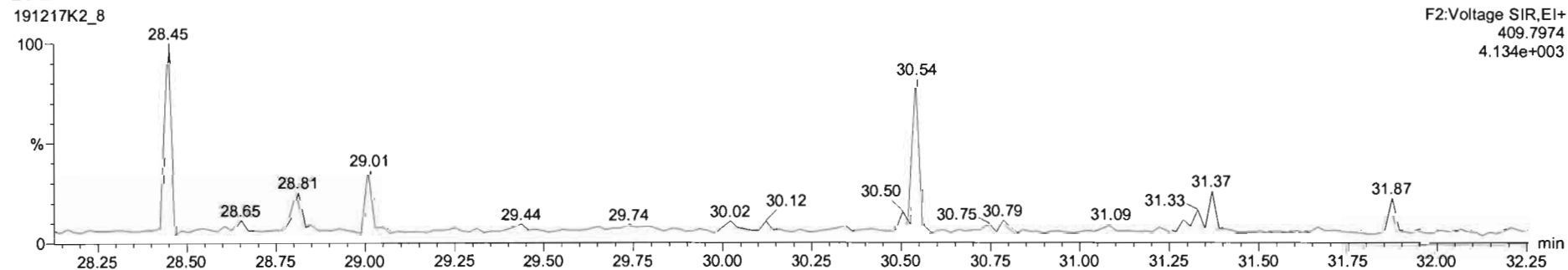
1,2,3,7,8-PeCDF



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



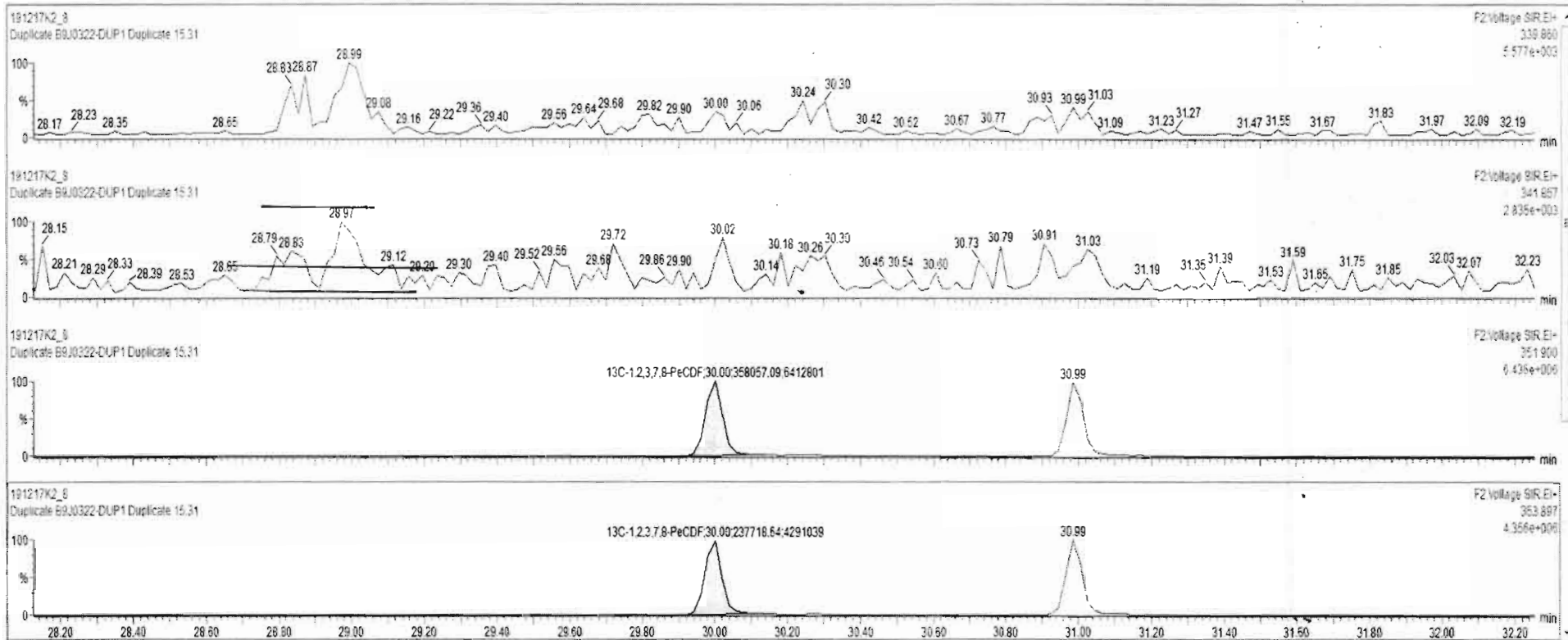
DPE2



191217K2_8 - B9J0322-DUP1 Duplicate 15.31 - Duplicate

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Facs	No Scl.	Peaks
36	13C-1,2,3,4-TCDD	5.72e5	5.72e5	36	0.77	NO		10.041	25.45	25.47	1.000	1.000	NO	199.2	100	0.530		bb	NO	
37	13C-1,2,3,4-TCDF	8.36e5	8.36e5	37	0.74	NO		10.041	23.55	23.58	1.000	1.000	NO	199.2	100	0.591		bb	NO	
38	13C-1,2,3,4,6,8-HxCDF	5.77e5	5.77e5	38	0.54	NO		10.041	34.16	34.19	1.000	1.000	NO	199.2	100	0.660		bb	NO	
39	Total Tetra-Dioxins	5.75e5						10.041	24.82			0.000	NO	0.3621		0.128	0.9604		NO	1
40	Total Penta-Dioxins	4.04e5						10.041	29.96			0.000	NO	0.0000		0.0663	0.4314		NO	1
41	Total Hexa-Dioxins	0.00e0						10.041	33.63			0.000	NO	1.576		0.188	2.591		NO	1
42	Total Hepta-Dioxins	2.41e5						10.041	38.80			0.000	NO	1.830		0.257	4.478		NO	1
43	Total Tetra-Furans	7.87e5						10.041	23.61			0.000	NO	1.293		0.124	1.293		NO	3
44	1st Func. Penta-Furans	0.00e0						10.041	27.04			0.000	NO			0.0159			NO	
45	Total Penta-Furans	0.00e0						10.041	29.27			0.000	NO			0.0466			NO	
46	Total Hexa-Furans	0.00e0						10.041	33.56			0.000	NO			0.0278			NO	
47	Total Hepta-Furans	0.00e0						10.041	37.83			0.000	NO			0.0799			NO	
48	PFK1																			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primer	1° Det...
1												

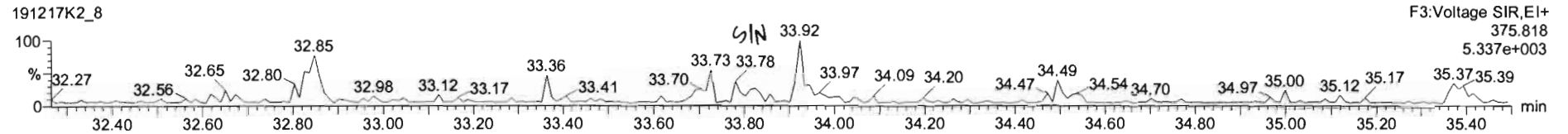
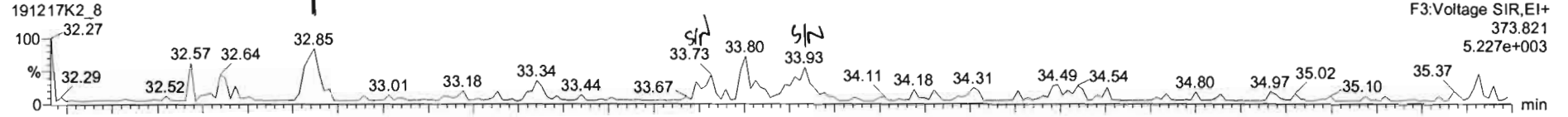


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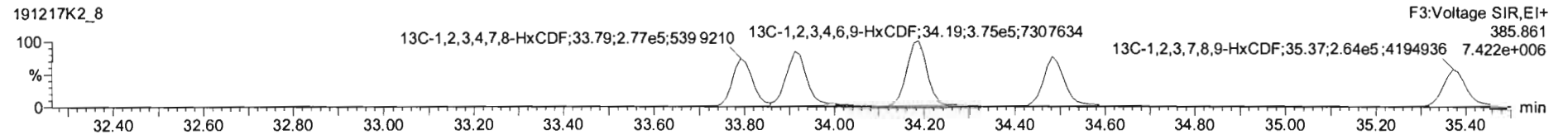
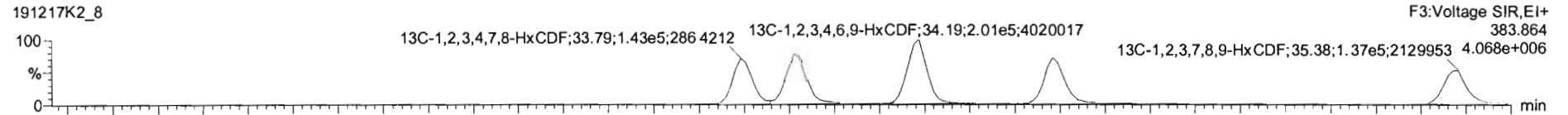
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate

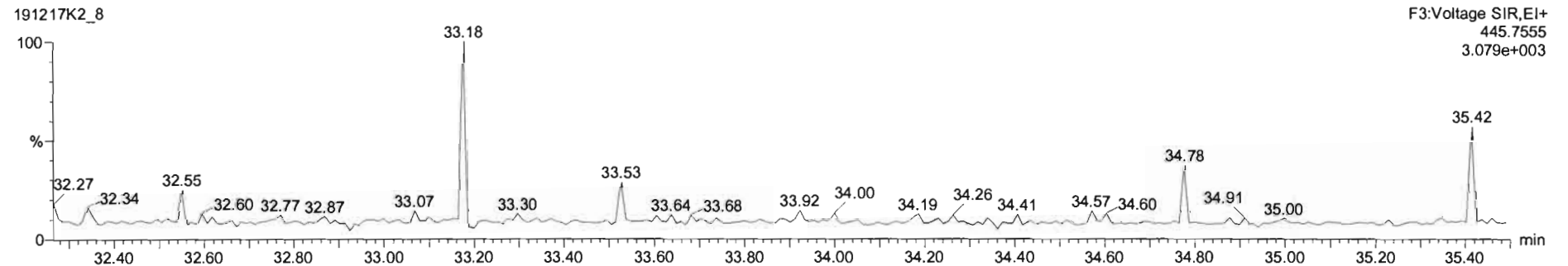
1,2,3,4,7,8-HxCDF



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



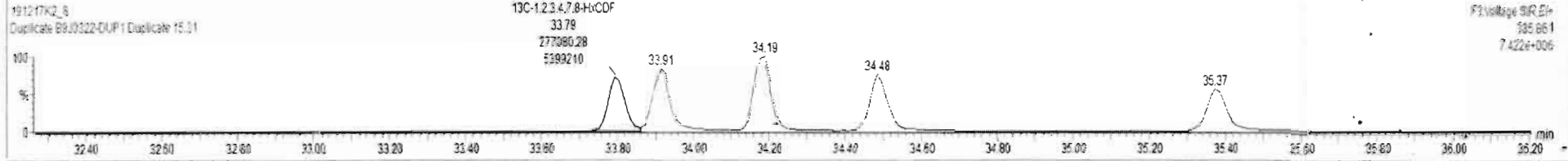
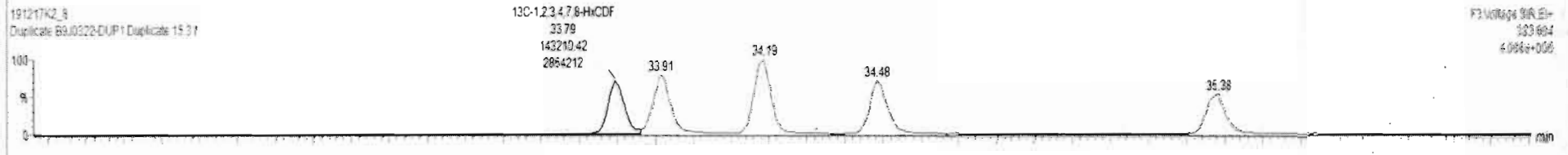
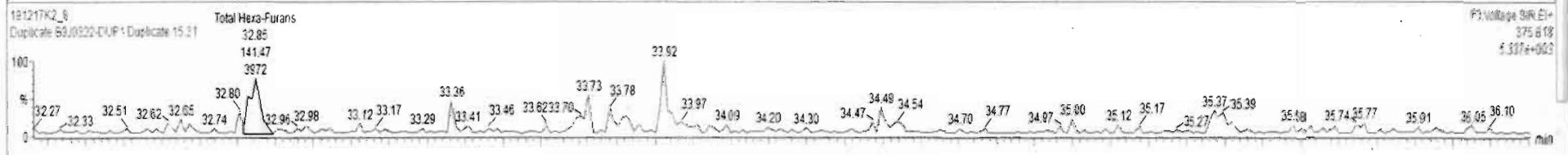
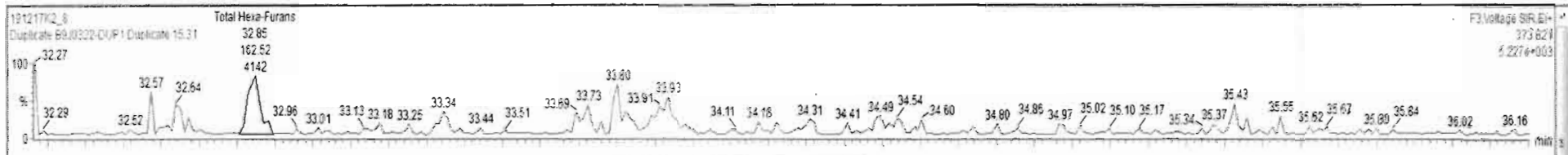
DPE3



191217K2_8 - B9J0322-DUP1 Duplicate 15.31 - Duplicate

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC	Primary Flags	No. Sol.	Peaks
36	13C-1,2,3,4-TCDD	5.72e5	5.72e5	36	0.77	NO	10.041	25.45	25.47	1.000	1.000	NO	NO	199.2	100	0.530		bb	NO	
37	13C-1,2,3,4-TCDF	8.38e5	8.38e5	37	0.74	NO	10.041	23.55	23.58	1.000	1.000	NO	NO	199.2	100	0.591		bb	NO	
38	13C-1,2,3,4,6,9-HxCDF	5.77e5	5.77e5	38	0.54	NO	10.041	34.16	34.19	1.000	1.000	NO	NO	199.2	100	0.660		bb	NO	
39	Total Tetra-Dioxins	5.75e5	5.75e5				10.041	24.62			0.000	NO	NO	0.3621		0.128	0.9804		NO	1
40	Total Penta-Dioxins	4.04e5					10.041	29.96			0.000	NO	NO	0.0000		0.0683	0.4314		NO	1
41	Total Hexa-Dioxins	0.00e0					10.041	33.63			0.000	NO	NO	1.579		0.188	2.581		NO	1
42	Total Hepta-Dioxins	2.41e5					10.041	38.80			0.000	NO	NO	1.830		0.257	4.478		NO	1
43	Total Tetra-Furans	7.87e5					10.041	23.61			0.000	NO	NO	1.293		0.124	1.293		NO	3
44	1st Func. Penta-Furans	0.00e0					10.041	27.04			0.000	NO	NO			0.0159			NO	
45	Total Penta-Furans	0.00e0					10.041	29.27			0.000	NO	NO			0.0468			NO	
46	Total Hexa-Furans	0.00e0					10.041	33.58			0.000	NO	NO	0.1155		0.0378	0.1155		NO	1
47	Total Hepta-Furans	0.00e0					10.041	37.83			0.000	NO	NO			0.0709			NO	
48	PFK1																			

#	Name	Pred RT	RT	m1 Reso	m2 Reso	Pred RA	RA	nly	EMPC	Conc	Primar.	1° Det.
1	46 Total Hexa-Furans	33.56	32.85	1.625e2	1.415e2	1.240	1.15	NO	0.11549	0.11549	MM	MM

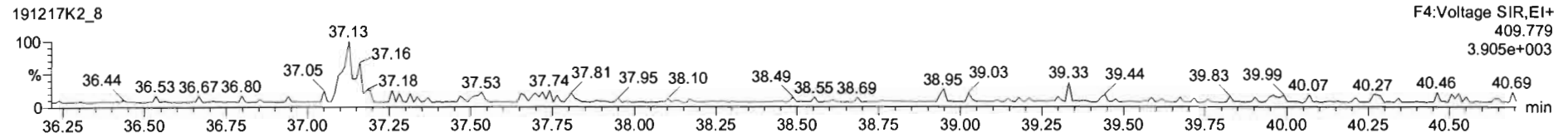
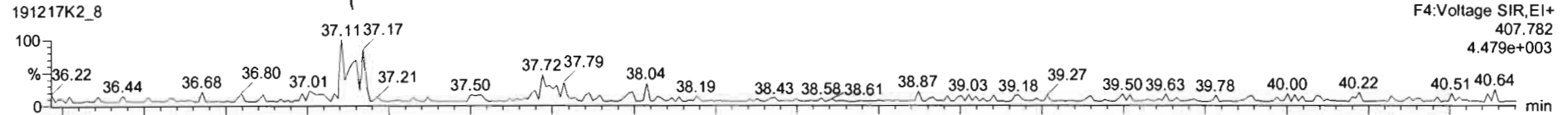


Dataset: Untitled

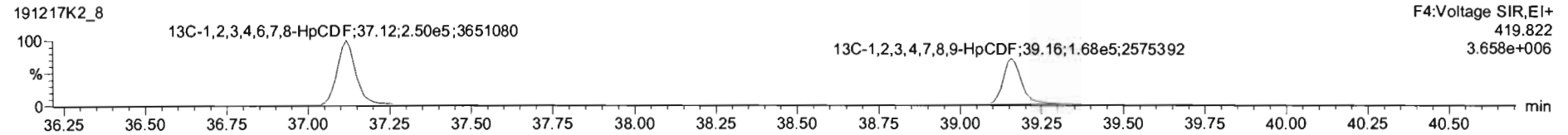
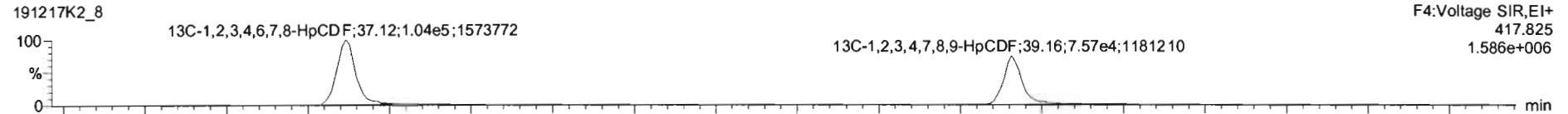
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate

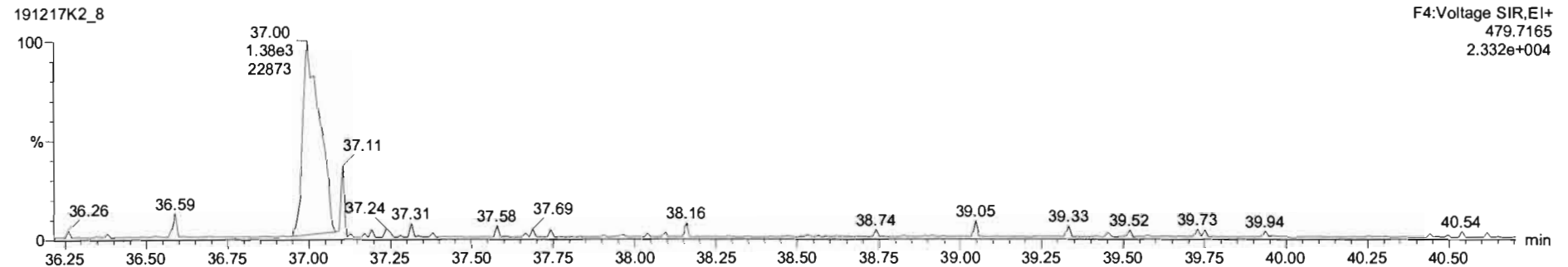
1,2,3,4,6,7,8-HpCDF



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



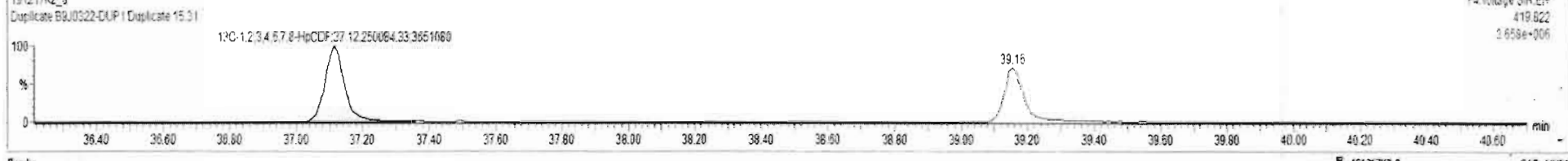
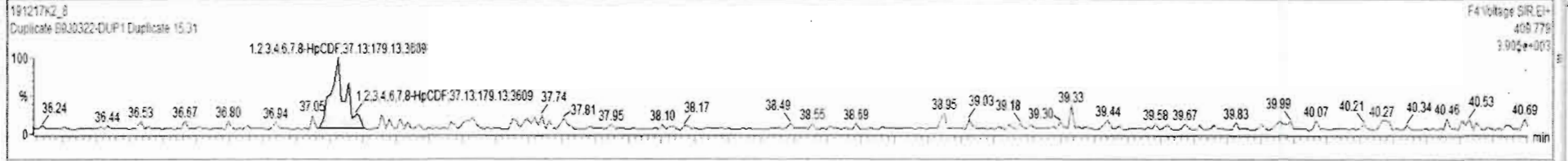
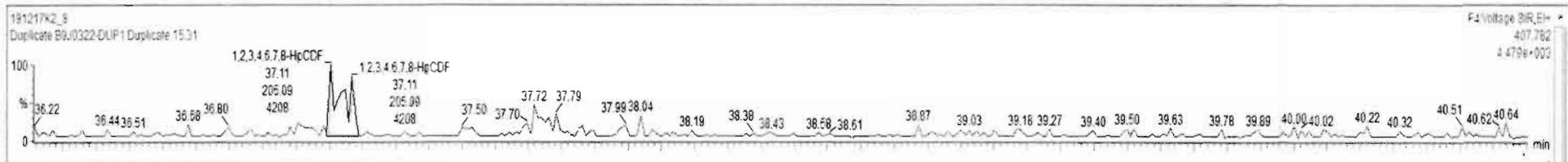
DPE4



191217K2_8 - B9J0322-DUP1 Duplicate 15.31 - Duplicate

#	Name	Resp	IS Resp	ISA	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Fags	No Sol.	Peaks
36	13C-1,2,3,4-TCDD	5.72e5	5.72e5	36	0.77	NO		10.041	25.45	25.47	1.000	1.000	NO	199.2	100	0.530		bc	NO	
37	13C-1,2,3,4-TCDF	6.36e5	6.36e5	37	0.74	NO		10.041	23.55	23.58	1.000	1.000	NO	199.2	100	0.591		bc	NO	
38	13C-1,2,3,4,6,8-HxCDF	5.77e5	5.77e5	38	0.54	NO		10.041	34.16	34.19	1.000	1.000	NO	199.2	100	0.660		bc	NO	
39	Total Tetra-Dioxins	5.75e5						10.041	24.62			0.000	NO	0.3621		0.128	0.9604		NO	1
40	Total Penta-Dioxins	4.04e5						10.041	29.96			0.000	NO	0.0000		0.0683	0.4314		NO	1
41	Total Hexa-Dioxins	0.00e0						10.041	33.83			0.000	NO	1.579		0.188	2.561		NO	1
42	Total Hepta-Dioxins	2.41e5						10.041	38.80			0.000	NO	1.830		0.257	4.478		NO	1
43	Total Tetra-Furans	7.87e5						10.041	23.61			0.000	NO	1.293		0.124	1.293		NO	3
44	1st Func. Penta-Furans	0.00e0						10.041	27.04			0.000	NO			0.0159			NO	
45	Total Penta-Furans	0.00e0						10.041	29.27			0.000	NO			0.0486			NO	
46	Total Hexa-Furans	0.00e0						10.041	33.56			0.000	NO	0.1155		0.0370	0.1155		NO	1
47	Total Hepta-Furans	0.00e0						10.041	37.83			0.000	NO	0.1912		0.0799	0.1912		NO	1
48	PFK1																			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primer	1° Det.
1	1,2,3,4,6,7,8-HpCDF	37.15	37.11	2.051e2	1.791e2	1.040	1.14	NO	0.19122	0.19122	MM	MM



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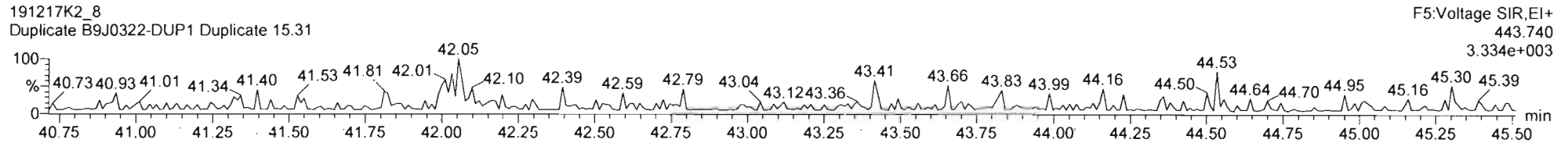
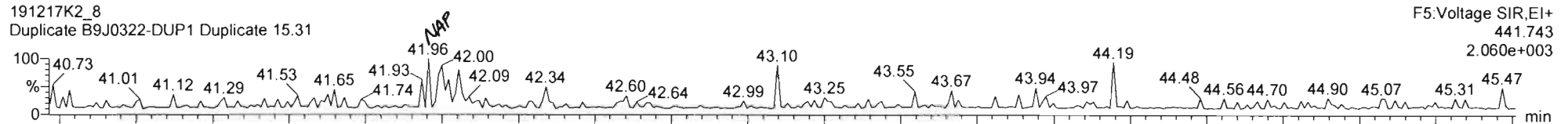
Dataset: U:\VG11.PRO\Results\191217K2\191217K2-8.qld

Last Altered: Friday, December 20, 2019 11:10:10 Pacific Standard Time

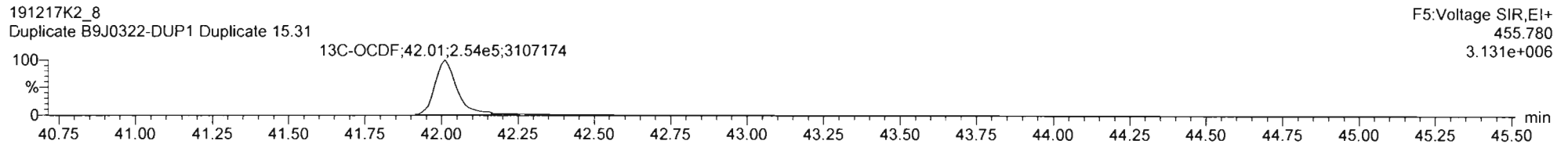
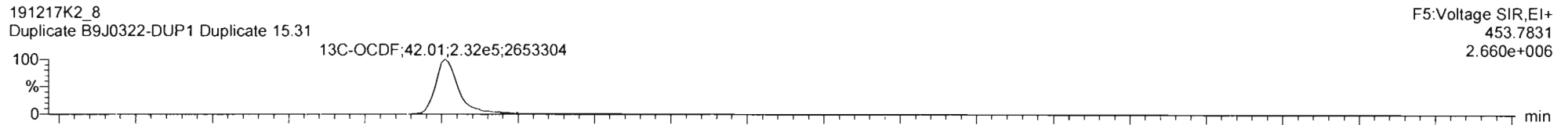
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Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate

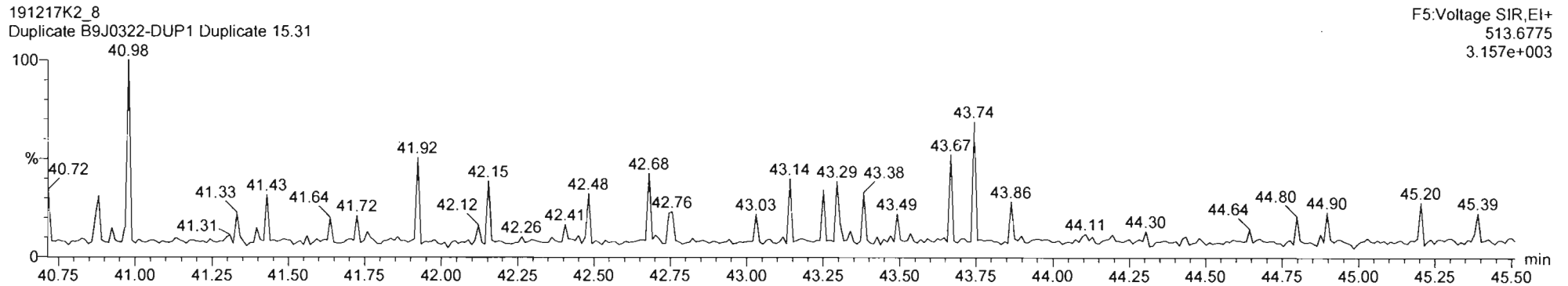
OCDF



13C-OCDF



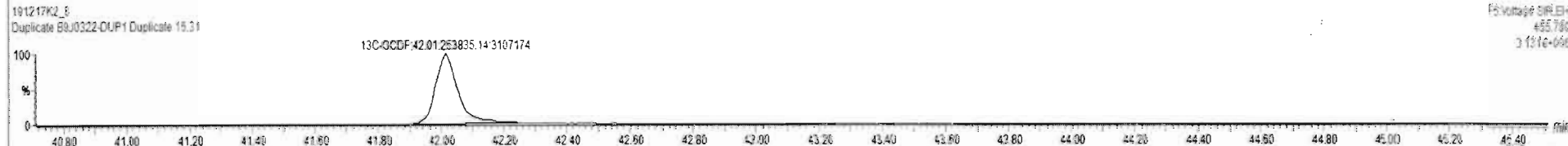
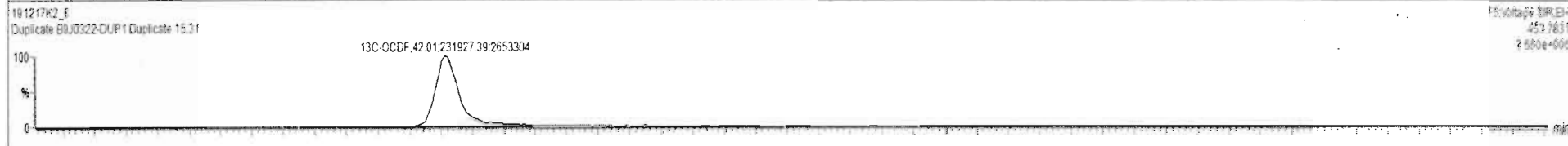
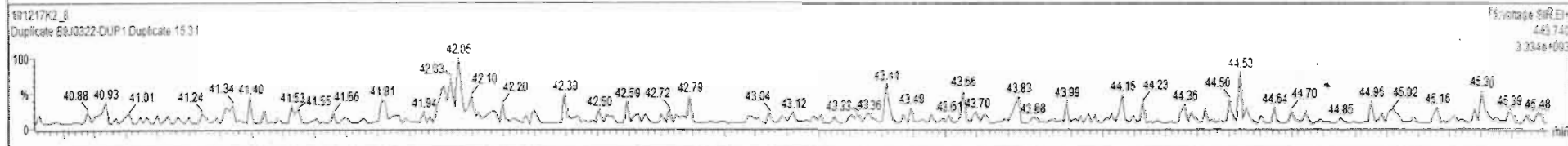
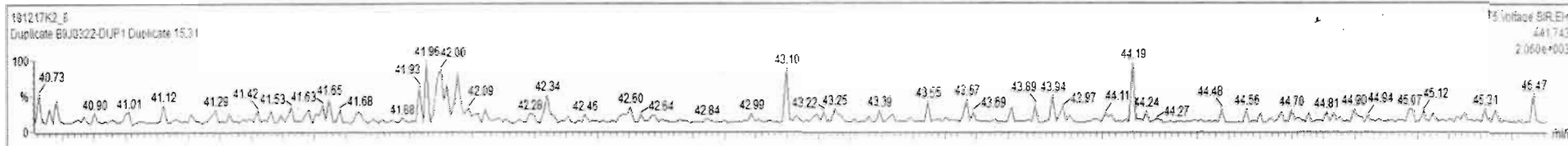
DPE5



191217K2_8 - B9J0322-DUP1 Duplicate 15.31 - Duplicate

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			0.92	10.041					0.128	
2	1,2,3,7,8-PeCDD			0.90	10.041					0.145	
3	1,2,3,4,7,8-HxCDD			1.07	10.041					0.171	
4	1,2,3,6,7,8-HxCDD			0.97	10.041					0.174	
5	1,2,3,7,8,9-HxCDD			0.98	10.041					6.200	
6	1,2,3,4,6,7,8-HpCDD	2.29e3	1.15	NO	1.04	10.041	38.58	1.001	1.83	0.257	1.83
7	OCDD	9.31e3	0.95	NO	0.97	10.041	41.83	1.001	11.1	0.492	11.1
8	2,3,7,8-TCDF			0.94	10.041					0.124	
9	1,2,3,7,8-PeCDF			0.95	10.041					0.0897	
10	2,3,4,7,8-HxCDF			1.00	10.041					0.0655	
11	1,2,3,4,7,8-HxCDF			1.24	10.041					0.0657	
12	1,2,3,6,7,8-HxCDF			1.10	10.041					0.0674	
13	2,3,4,6,7,8-HxCDF			1.18	10.041					0.0698	

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

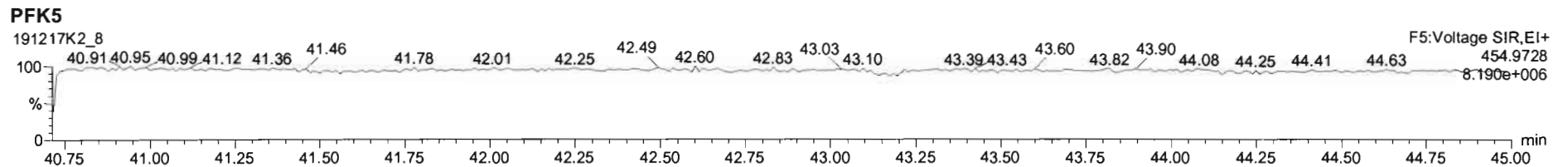
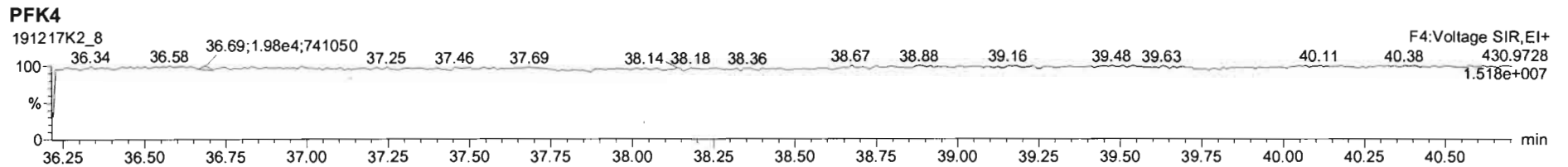
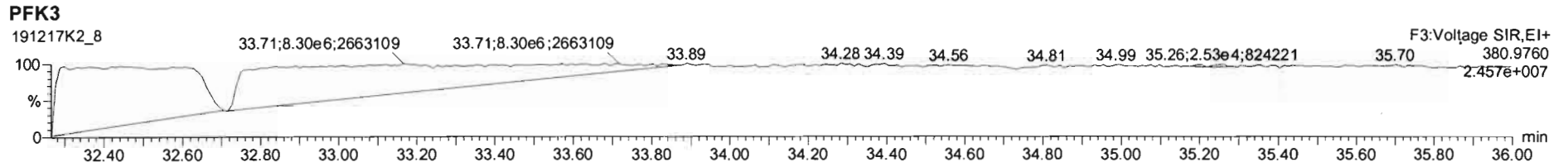
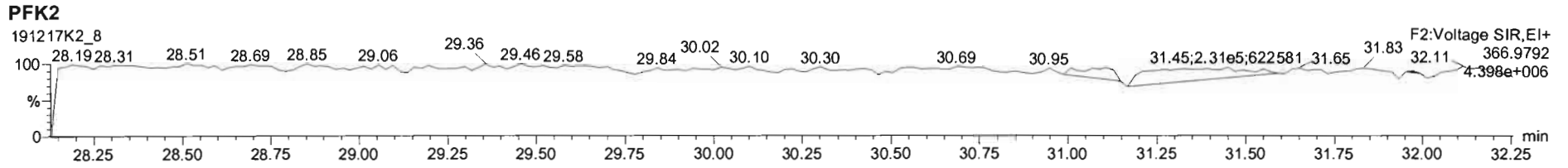
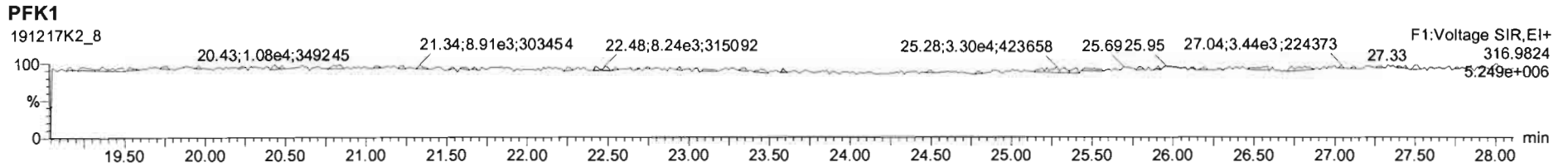


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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_8, Date: 17-Dec-2019, Time: 19:30:44, ID: B9J0322-DUP1 Duplicate 15.31, Description: Duplicate



Dataset: U:\VG11.PRO\Results\191217K2\191217K2-10.qld

Last Altered: Friday, December 20, 2019 14:12:59 Pacific Standard Time

Printed: Friday, December 20, 2019 14:16:58 Pacific Standard Time

EL 12/20/19

CT 12/26/19

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_10, Date: 17-Dec-2019, Time: 21:06:27, ID: 1903648-02 PDI-073SC-A-12-12.6-191013 14.14, Description: PDI-073SC-A-12-12.6-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.925	9.996	26.18		1.00		YES			0.156	
2	2 1,2,3,7,8-PeCDD				0.905	9.996	31.31		1.00		YES			0.0989	
3	3 1,2,3,4,7,8-HxCDD				1.07	9.996	34.66		1.00		YES			0.141	
4	4 1,2,3,6,7,8-HxCDD				0.967	9.996	34.75		1.00		YES			0.146	
5	5 1,2,3,7,8,9-HxCDD				0.978	9.996	35.06		1.00		YES			0.166	
6	6 1,2,3,4,6,7,8-HpCDD	2201.278	1.219	YES	1.04	9.996	38.54	38.56	1.00	1.00	NO	1.511		0.276	1.389
7	7 OCDD	12886.961	0.968	NO	0.972	9.996	41.80	41.81	1.00	1.00	NO	12.84		0.433	12.84
8	8 2,3,7,8-TCDF				0.938	9.996	25.20		1.00		YES			0.120	
9	9 1,2,3,7,8-PeCDF				0.976	9.996	30.00		1.00		YES			0.0848	
10	10 2,3,4,7,8-PeCDF				1.00	9.996	31.00		1.00		YES			0.0832	
11	11 1,2,3,4,7,8-HxCDF				1.24	9.996	33.78		1.00		YES			0.0531	
12	12 1,2,3,6,7,8-HxCDF				1.10	9.996	33.91		1.00		YES			0.0529	
13	13 2,3,4,6,7,8-HxCDF				1.18	9.996	34.51		1.00		YES			0.0555	
14	14 1,2,3,7,8,9-HxCDF				1.07	9.996	35.35		1.00		YES			0.0802	
15	15 1,2,3,4,6,7,8-HpCDF	221.908	1.011	NO	1.13	9.996	37.14	37.09	1.00	1.00	NO	0.1079		0.0440	0.1079
16	16 1,2,3,4,7,8,9-HpCDF				1.26	9.996	39.13		1.00		YES			0.0859	
17	17 OCDF				1.10	9.996	41.99		1.00		YES			0.166	
18	18 13C-2,3,7,8-TCDD	557559.453	0.772	NO	1.05	9.996	26.16	26.15	1.03	1.03	NO	181.6	90.8	0.407	
19	19 13C-1,2,3,7,8-PeCDD	424847.875	0.640	NO	0.743	9.996	31.31	31.29	1.23	1.23	NO	195.4	97.7	0.516	
20	20 13C-1,2,3,4,7,8-HxCDD	302720.032	1.225	NO	0.646	9.996	34.64	34.65	1.01	1.01	NO	153.4	76.7	0.631	
21	21 13C-1,2,3,6,7,8-HxCDD	356369.750	1.243	NO	0.777	9.996	34.73	34.75	1.02	1.02	NO	150.3	75.1	0.525	
22	22 13C-1,2,3,7,8,9-HxCDD	326095.203	1.205	NO	0.659	9.996	35.01	35.02	1.02	1.03	NO	161.9	80.9	0.619	
23	23 13C-1,2,3,4,6,7,8-HpCDD	280968.156	1.071	NO	0.534	9.996	38.51	38.53	1.13	1.13	NO	172.3	86.1	0.825	
24	24 13C-OCDD	413350.781	0.887	NO	0.470	9.996	41.79	41.80	1.22	1.22	NO	287.8	71.9	0.991	
25	25 13C-2,3,7,8-TCDF	809982.875	0.729	NO	0.977	9.996	25.17	25.17	0.99	0.99	NO	179.5	89.7	0.547	
26	26 13C-1,2,3,7,8-PeCDF	582487.734	1.554	NO	0.778	9.996	30.00	29.98	1.18	1.18	NO	162.2	81.1	0.572	
27	27 13C-2,3,4,7,8-PeCDF	576005.532	1.466	NO	0.750	9.996	30.99	30.97	1.22	1.22	NO	166.4	83.1	0.593	
28	28 13C-1,2,3,4,7,8-HxCDF	427256.563	0.527	NO	0.845	9.996	33.77	33.78	0.99	0.99	NO	165.6	82.7	0.827	
29	29 13C-1,2,3,6,7,8-HxCDF	508275.156	0.530	NO	1.03	9.996	33.89	33.90	0.99	0.99	NO	162.1	81.0	0.681	
30	30 13C-2,3,4,6,7,8-HxCDF	462191.250	0.527	NO	0.893	9.996	34.46	34.47	1.01	1.01	NO	169.5	84.7	0.783	

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-10.qld

Last Altered: Friday, December 20, 2019 14:12:59 Pacific Standard Time

Printed: Friday, December 20, 2019 14:16:58 Pacific Standard Time

Name: 191217K2_10, Date: 17-Dec-2019, Time: 21:06:27, ID: 1903648-02 PDI-073SC-A-12-12.6-191013 14.14, Description: PDI-073SC-A-12-12.6-191013

	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	403728.532	0.524	NO	0.734	9.996	35.37	35.35	1.04	1.03	NO	180.1	90.0	0.952	
32	32 13C-1,2,3,4,6,7,8-HpCDF	364038.890	0.453	NO	0.754	9.996	37.08	37.10	1.09	1.09	NO	158.1	79.0	1.17	
33	33 13C-1,2,3,4,7,8,9-HpCDF	270518.172	0.452	NO	0.539	9.996	39.11	39.13	1.14	1.15	NO	164.4	82.1	1.63	
34	34 13C-OCDF	576870.813	0.851	NO	0.593	9.996	41.97	41.99	1.23	1.23	NO	318.8	79.7	0.782	
35	35 37Cl-2,3,7,8-TCDD	231714.828			1.07	9.996	26.18	26.17	1.03	1.03	NO	74.03	92.5	0.0969	
36	36 13C-1,2,3,4-TCDD	585575.922	0.779	NO	1.00	9.996	25.45	25.47	1.00	1.00	NO	200.1	100	0.427	
37	37 13C-1,2,3,4-TCDF	923787.625	0.731	NO	1.00	9.996	23.55	23.57	1.00	1.00	NO	200.1	100	0.535	
38	38 13C-1,2,3,4,6,9-HxCDF	610987.687	0.529	NO	1.00	9.996	34.16	34.16	1.00	1.00	NO	200.1	100	0.699	
39	39 Total Tetra-Dioxins				0.925	9.996	24.62		0.00		NO			0.0880	
40	40 Total Penta-Dioxins				0.905	9.996	29.96		0.00		NO	0.0000		0.0342	0.3524
41	41 Total Hexa-Dioxins				0.967	9.996	33.63		0.00		NO	0.7996		0.156	1.885
42	42 Total Hepta-Dioxins				1.04	9.996	38.80		0.00		NO	2.239		0.276	3.628
43	43 Total Tetra-Furans				0.938	9.996	23.61		0.00		NO	0.1815		0.120	0.6237
44	44 1st Func. Penta-Furans				0.976	9.996	27.04		0.00		NO			0.0151	
45	45 Total Penta-Furans				0.976	9.996	29.27		0.00		NO			0.0421	
46	46 Total Hexa-Furans				1.18	9.996	33.56		0.00		NO	0.0000		0.0320	0.07653
47	47 Total Hepta-Furans				1.13	9.996	37.83		0.00		NO	0.1079		0.0478	0.1079

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Dataset: U:\VG11.PRO\Results\191217K2\191217K2-10.qld

Last Altered: Friday, December 20, 2019 14:12:59 Pacific Standard Time

Printed: Friday, December 20, 2019 14:17:07 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_10, Date: 17-Dec-2019, Time: 21:06:27, ID: 1903648-02 PDI-073SC-A-12-12.6-191013 14.14, Description: PDI-073SC-A-12-12.6-191013

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	4.25e5	0.799	YES	29.96	29.08	0.0000	0.1927
2	40 Total Penta-Dioxins	0.00e0	4.25e5	0.562	NO	29.96	29.54	0.0000	0.1597

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	1.27e3	0.00e0	1.272	NO	33.63	33.99	0.7996	0.7996
2	41 Total Hexa-Dioxins	0.00e0	0.00e0	0.986	YES	33.63	33.19	0.0000	1.085

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.20e3	2.81e5	1.219	YES	38.54	38.56	0.0000	1.389
2	42 Total Hepta-Dioxins	3.26e3	2.81e5	1.041	NO	38.80	37.50	2.239	2.239

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	6.89e2	8.10e5	0.773	NO	23.61	19.81	0.1815	0.1815
2	43 Total Tetra-Furans	0.00e0	8.10e5	0.579	YES	23.61	20.88	0.0000	0.4422

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-10.qld

Last Altered: Friday, December 20, 2019 14:12:59 Pacific Standard Time

Printed: Friday, December 20, 2019 14:17:07 Pacific Standard Time

Name: 191217K2_10, Date: 17-Dec-2019, Time: 21:06:27, ID: 1903648-02 PDI-073SC-A-12-12.6-191013 14.14, Description: PDI-073SC-A-12-12.6-191013

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	0.00e0	0.00e0	2.173	YES	33.56	32.63	0.0000	0.02456
2	46 Total Hexa-Furans	0.00e0	0.00e0	0.744	YES	33.56	32.80	0.0000	0.05196

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	2.22e2	3.64e5	1.011	NO	37.14	37.09	0.1079	0.1079

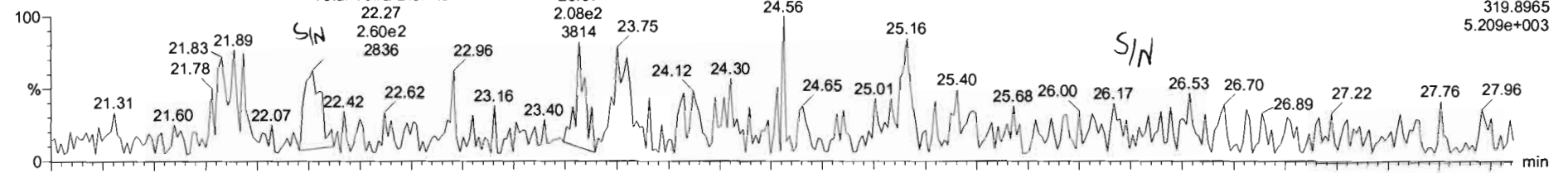
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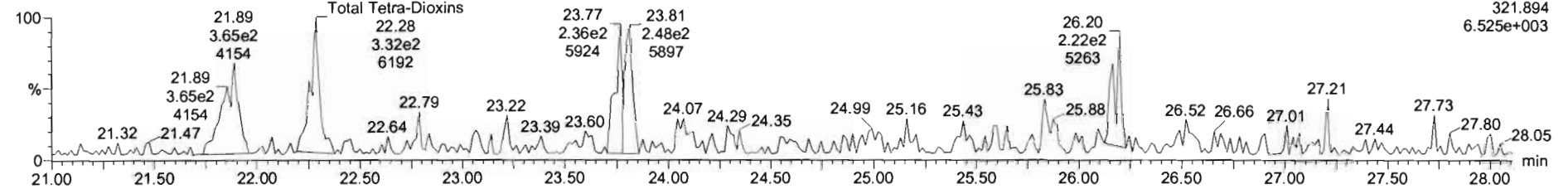
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2,3,7,8-TCDD

191217K2_10

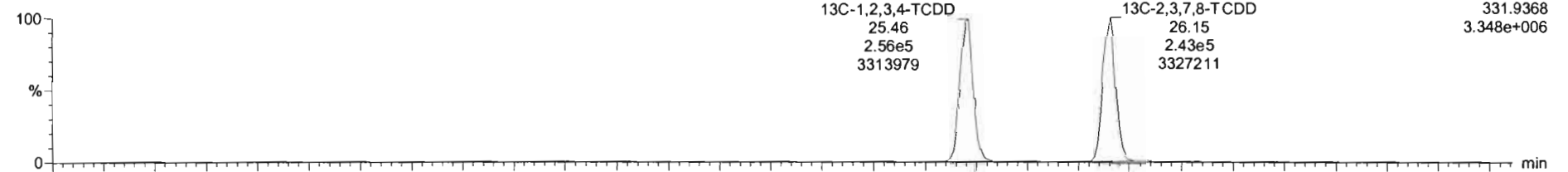


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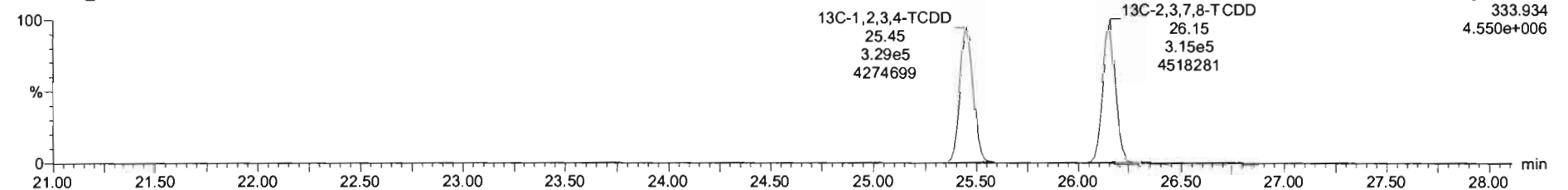


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191217K2_10



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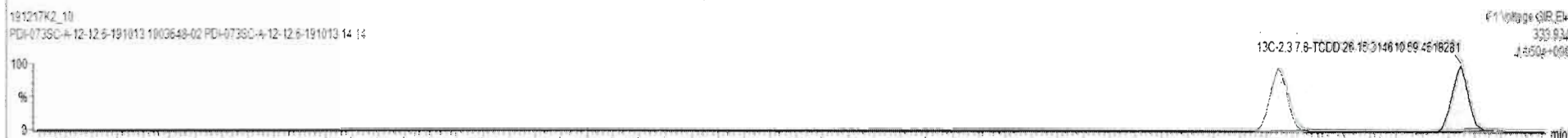
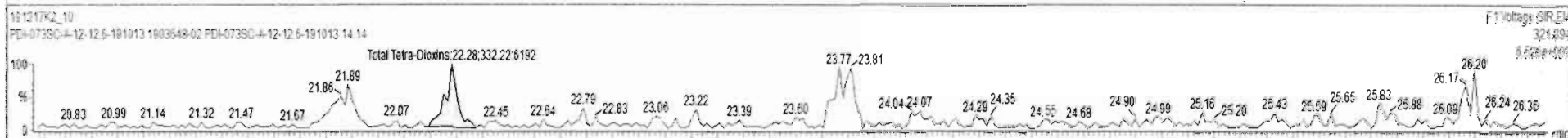
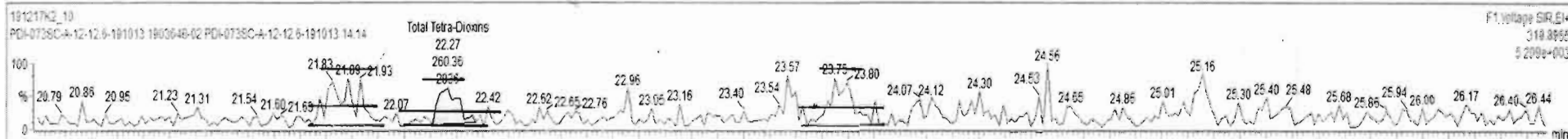




191217K2_10 - 1903648-02 PDI-073SC-A-12-12.6-191013 14.14 - PDI-073SC-A-12-12.6-191013

#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fw	Conc	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	4.04e5	0.52	NO	0.7343	9.996	35.37	35.36	1.035	1.035	NO	180.1	90.0	0.952	
32	13C-1,2,3,4,6,7,8-HpCDF	3.64e5	0.45	NO	0.7542	9.996	37.06	37.10	1.065	1.066	NO	159.1	79.0	1.17	
33	13C-1,2,3,4,7,8,9-HpCDF	2.71e5	0.45	NO	0.5390	9.996	39.11	39.13	1.145	1.145	NO	164.4	82.1	1.63	
34	13C-OCDF	5.77e5	0.85	NO	0.5925	9.996	41.97	41.99	1.229	1.229	NO	318.8	79.7	0.782	
35	37Cl-2,3,7,8-TCDD	2.32e5			1.9695	9.996	26.18	26.17	1.028	1.028	NO	74.03	92.5	0.9969	
36	13C-1,2,3,4-TCDD	5.86e5	0.78	NO	1.9000	9.996	25.45	25.47	1.000	1.000	NO	200.1	100	0.427	
37	37Cl-1,2,3,4-TCDF	9.24e5	0.73	NO	1.9000	9.996	23.55	23.57	1.000	1.000	NO	200.1	100	0.535	
38	13C-1,2,3,4,6,9-HxCDF	6.11e5	0.50	NO	1.9000	9.996	34.16	34.16	1.000	1.000	NO	200.1	100	0.659	
39	Total Tetra-Dioxins				0.9249	9.996	24.62		0.000		NO	0.2299		0.156	0.2300
40	Total Penta-Dioxins				0.9046	9.996	29.96		0.000		NO				0.0342
41	Total Hexa-Dioxins				0.9675	9.996	33.63		0.000		NO	0.7315		0.156	1.849
42	Total Hepta-Dioxins				1.0375	9.996	38.00		0.000		NO	2.275		0.276	3.241
43	Total Tetra-Furans				0.9376	9.996	23.61		0.000		NO	0.1615		0.120	1.068

#	Name	Pred RT	RT	m1 Resp	m2 Resp	I ² Ratio (Pred)	RA	nly	EMPC	Conc
1	Total Tetra-Dioxins	24.62	22.27	2.604e2	3.322e2	0.770	0.76	NO	0.23000	0.22991



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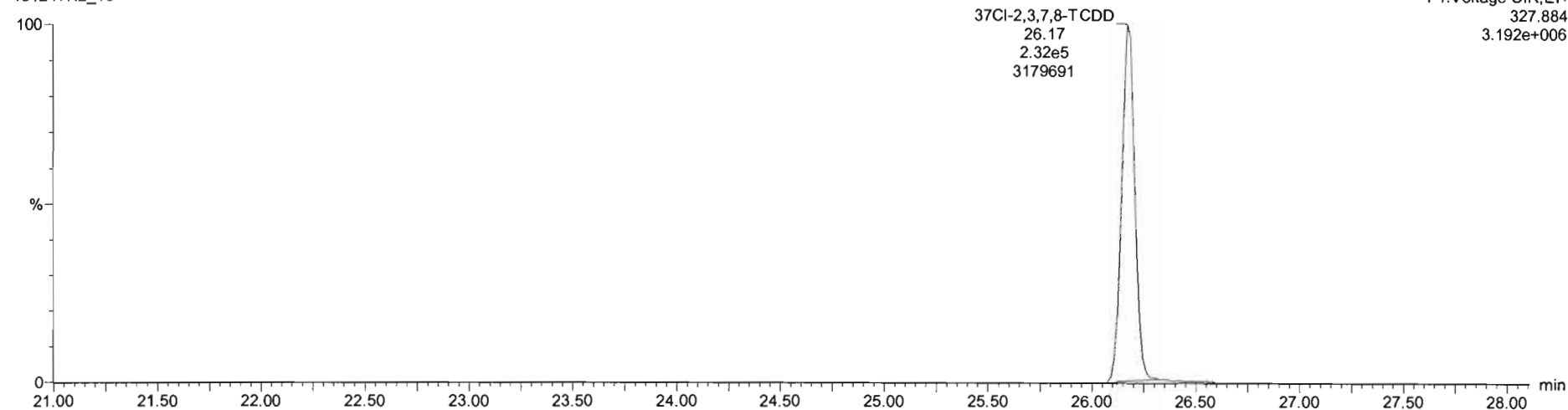
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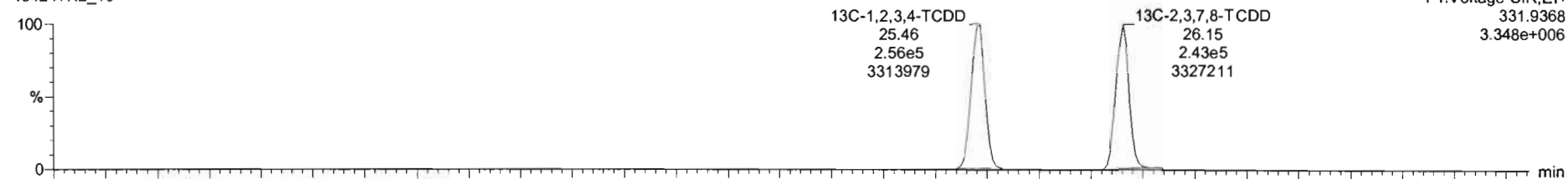
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191217K2_10

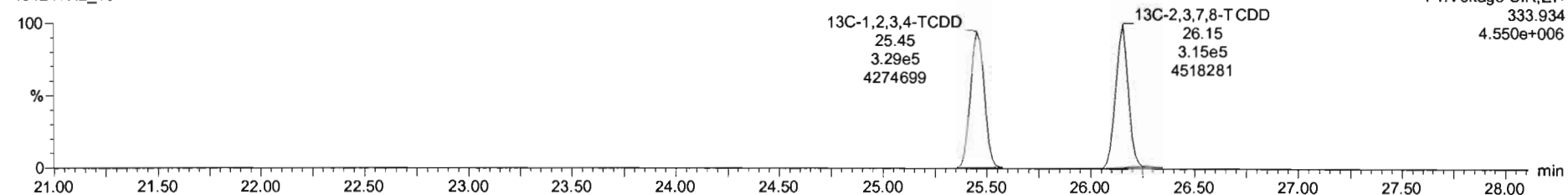


13C-1,2,3,4-TCDD

191217K2_10



191217K2_10



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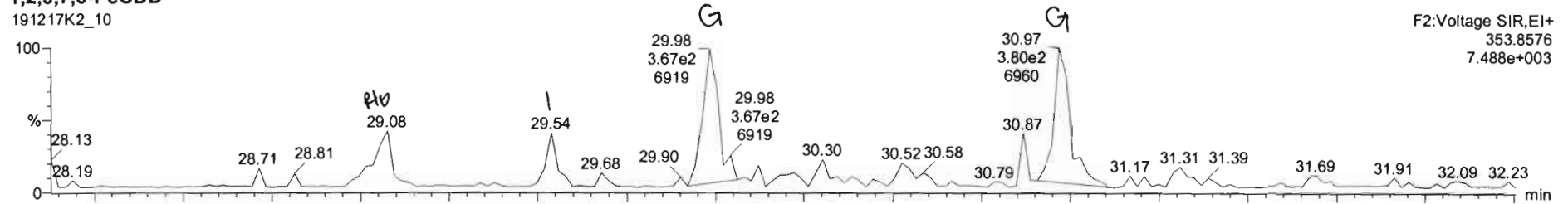
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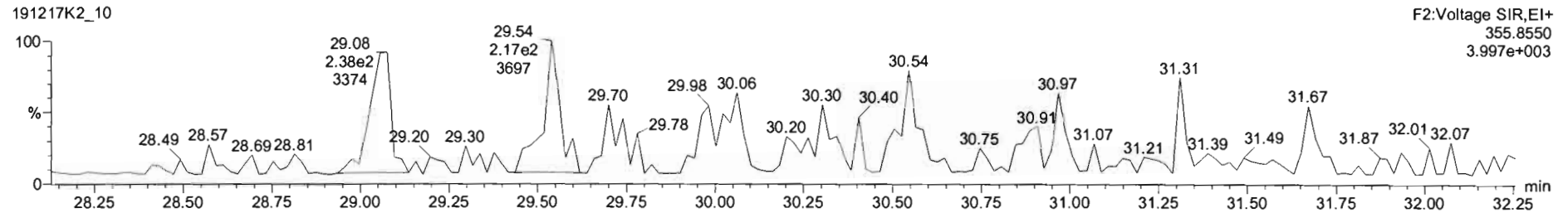
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1,2,3,7,8-PeCDD

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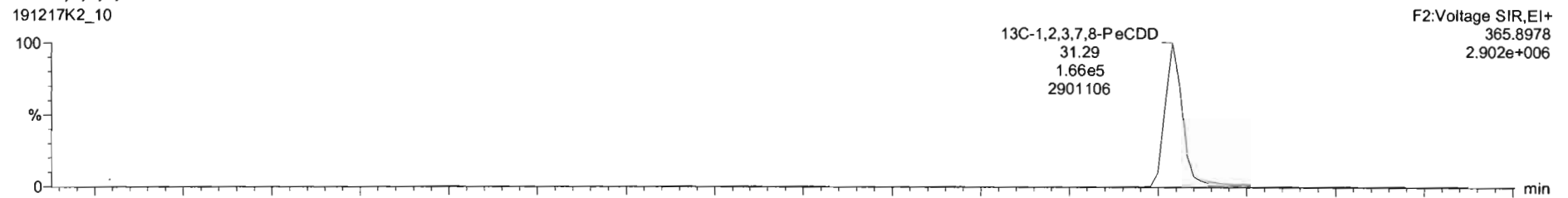


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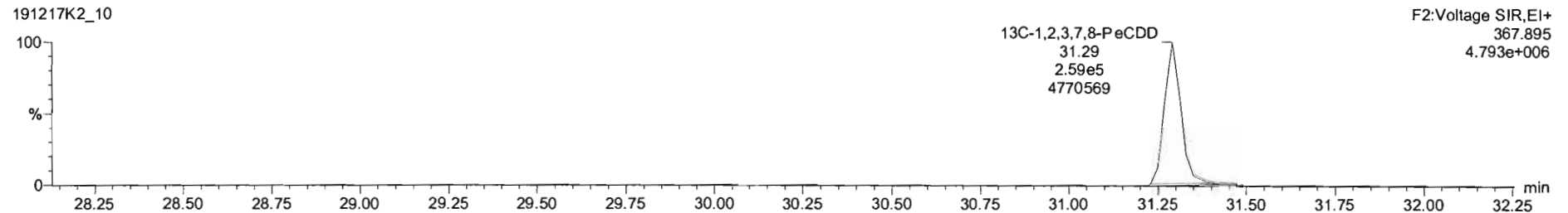


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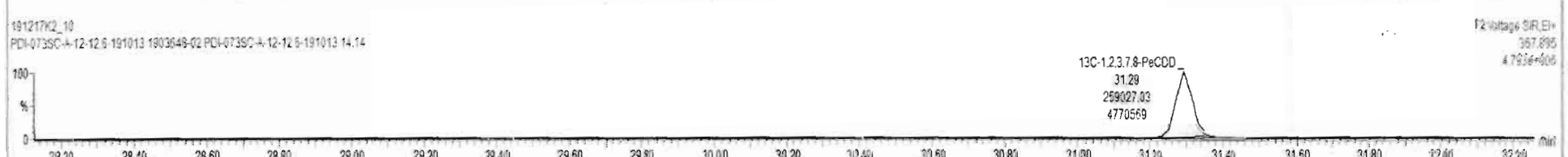
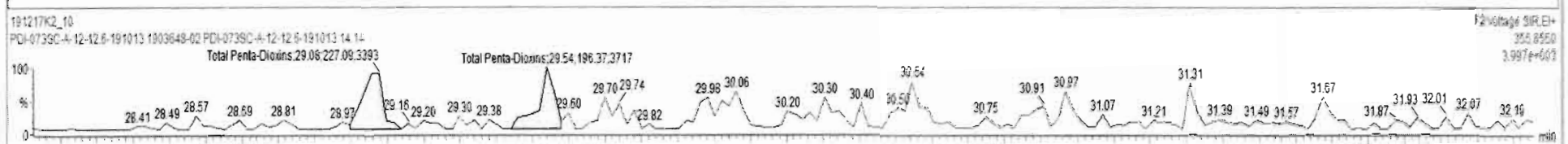
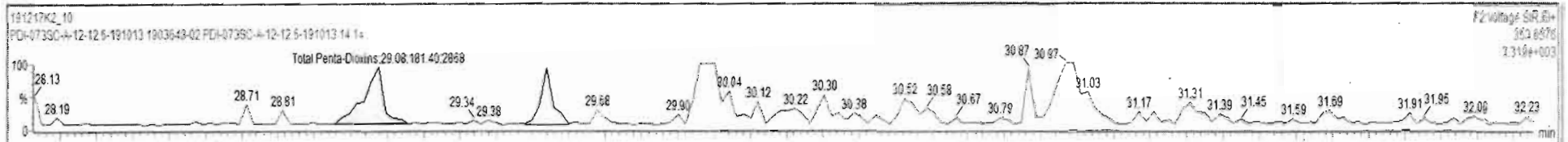


191217K2_10



#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
31	31	13C-1,2,3,7,8,9-HxCDF	4.04e5	0.52	NO	0.7343	9.996	35.37	35.35	1.035	1.035	NO	180.1	90.0	0.952
32	32	13C-1,2,3,4,6,7,8-HpCDF	3.64e5	0.45	NO	0.7542	9.996	37.08	37.10	1.085	1.086	NO	156.1	79.0	1.17
33	33	13C-1,2,3,4,7,8,9-HpCDF	2.71e5	0.45	NO	0.5390	9.996	39.11	39.13	1.145	1.146	NO	164.4	82.1	1.63
34	34	13C-OCDF	5.77e5	0.85	NO	0.5925	9.996	41.57	41.59	1.229	1.229	NO	316.8	76.7	0.762
35	35	37Cl-2,3,7,8-TCDD	2.32e5			1.0695	9.996	26.16	26.17	1.026	1.026	NO	74.03	82.5	0.0669
36	36	13C-1,2,3,4-TCDD	5.86e5	0.78	NO	1.0000	9.996	25.45	25.47	1.000	1.000	NO	200.1	100	0.427
37	37	13C-1,2,3,4-TCDF	9.24e5	0.73	NO	1.0000	9.996	23.55	23.57	1.000	1.000	NO	200.1	100	0.535
38	38	13C-1,2,3,4,6,9-HxCDF	8.11e5	0.53	NO	1.0000	9.996	34.16	34.16	1.000	1.000	NO	200.1	100	0.699
39	39	Total Tetra-Dioxins				0.9248	9.996	24.62		0.000		NO			0.0880
40	40	Total Penta-Dioxins				0.9046	9.996	29.96		0.000		NO	0.0000	0.0342	0.3524
41	41	Total Hexa-Dioxins				0.9675	9.996	33.63		0.000		NO	0.7315	0.156	1.849
42	42	Total Hepta-Dioxins				1.0375	9.996	38.80		0.000		NO	2.275	0.276	1.241
43	43	Total Tetra-Furans				0.9376	9.996	23.61		0.000		NO	0.1615	0.120	1.068

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 ^o Ratio (Pred)	RA	nly	EMPC	Conc.	
1	40	Total Penta-Dioxins	29.96	29.54	1.104e2	1.994e2	0.630	0.56	NO	0.15999	0.00000
2	40	Total Penta-Dioxins	29.96	29.08	1.614e2	2.271e2	0.630	0.86	YES	0.19271	0.00000

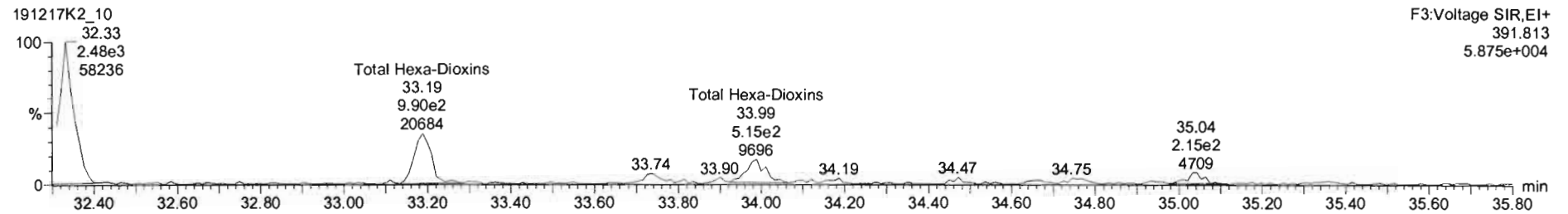
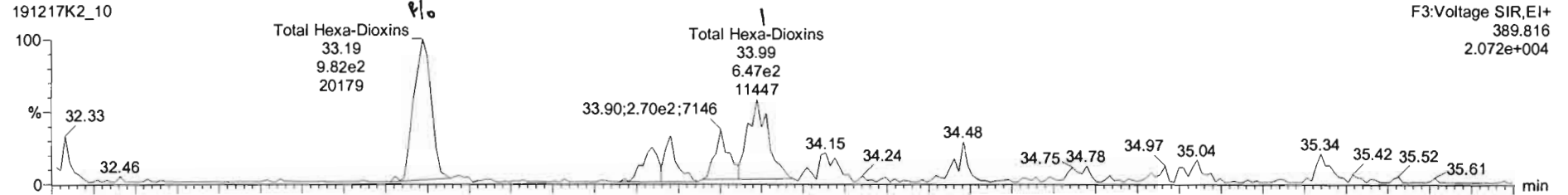


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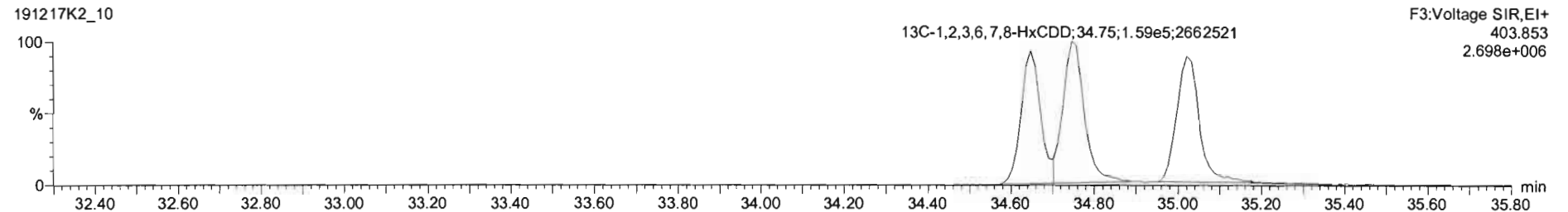
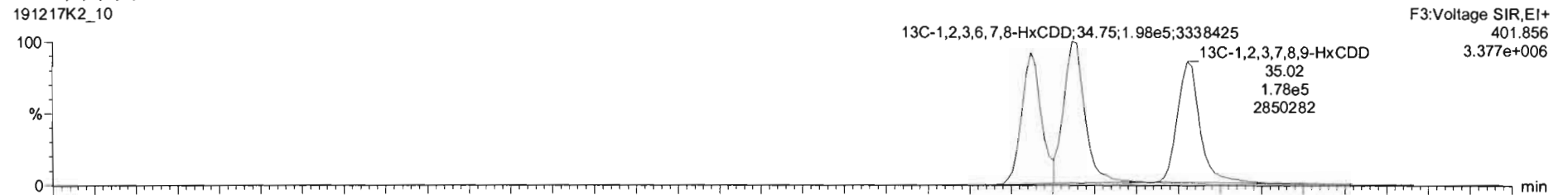
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1,2,3,4,7,8-HxCDD



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

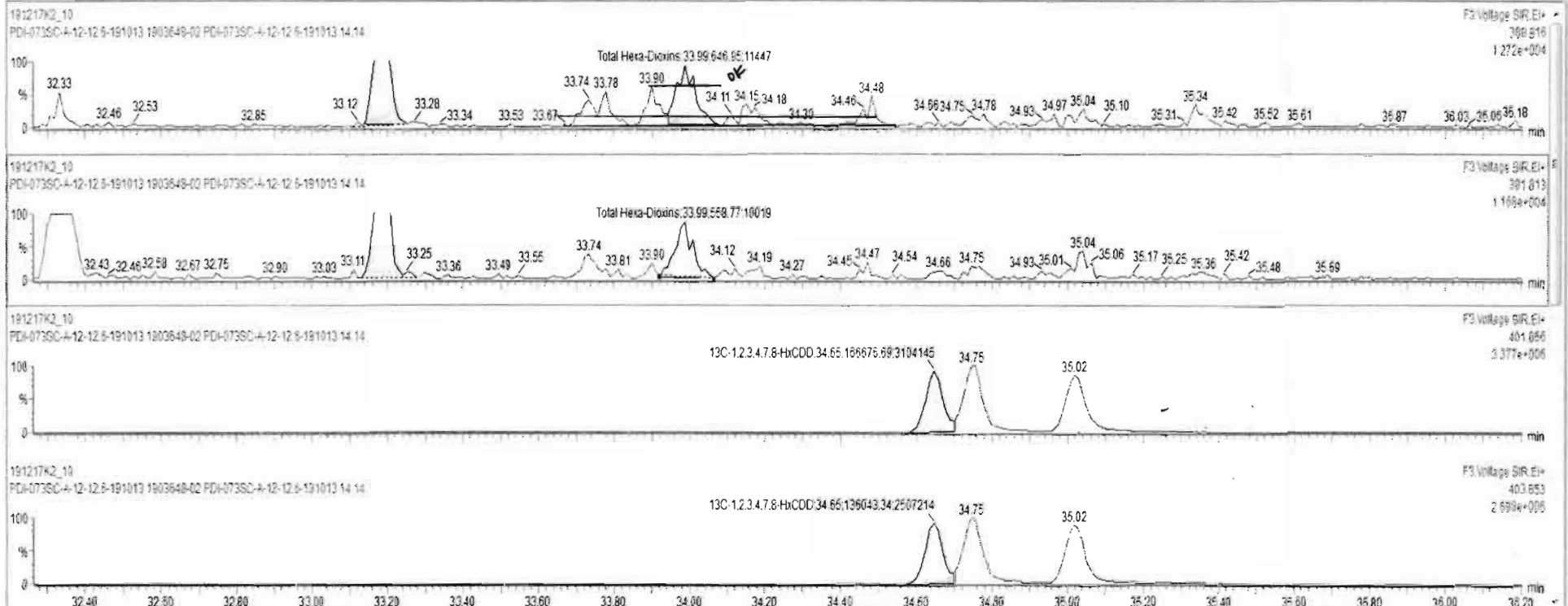




191217K2_10 - 1903648-02.PDI-073SC-A-12-12.6-191013 14.14 - PDI-073SC-A-12-12.6-191013

#	Name	Resp	RA	n/y	RRF	wVcl	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	4.04e5	0.52	NO	0.7343	9.996	35.37	35.35	1.035	1.035	NO	160.1	90.0	0.952	
32	13C-1,2,3,4,6,7,8-HpCDF	3.64e5	0.45	NO	0.7542	9.996	37.06	37.10	1.085	1.086	NO	158.1	79.0	1.17	
33	13C-1,2,3,4,7,8,9-HpCDF	2.71e5	0.45	NO	0.5390	9.996	39.11	39.13	1.145	1.146	NO	164.4	82.1	1.63	
34	13C-OCDF	5.77e5	0.85	NO	0.5925	9.996	41.97	41.99	1.229	1.229	NO	316.8	79.7	0.782	
35	3PCD-2,3,7,8-TCDD	2.32e5			1.0695	9.996	26.16	26.17	1.028	1.028	NO	74.03	92.5	0.0969	
36	13C-1,2,3,4-TCDD	5.86e5	0.78	NO	1.0000	9.996	25.45	25.47	1.000	1.000	NO	200.1	100	0.427	
37	13C-1,2,3,4-TCDF	9.24e5	0.73	NO	1.0000	9.996	23.55	23.57	1.000	1.000	NO	200.1	100	0.535	
38	13C-1,2,3,4,6,9-HxCDF	6.11e5	0.53	NO	1.0000	9.996	34.16	34.18	1.000	1.000	NO	200.1	100	0.899	
39	Total Tetra-Dioxins				0.9249	9.996	24.62		0.000		NO			0.0600	
40	Total Penta-Dioxins				0.9046	9.996	25.96		0.000		NO	0.0000		0.0342	0.3524
41	Total Hexa-Dioxins				0.9675	9.996	33.63		0.000		NO	0.7593		0.156	1.845
42	Total Hepta-Dioxins				1.0375	9.996	38.80		0.000		NO	2.275		0.276	3.241
43	Total Tetra-Furans				0.9376	9.996	23.61		0.000		NO	0.1615		0.120	1.068

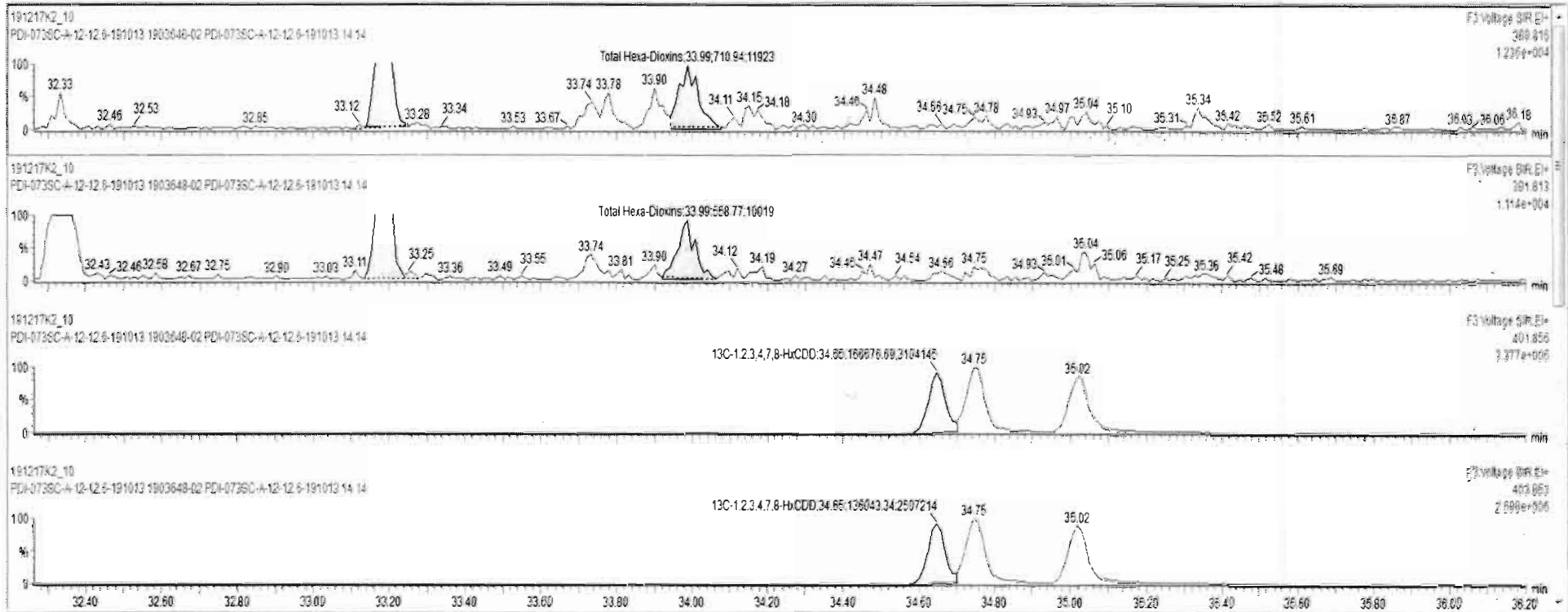
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	33.19	9.539e2	9.671e2	1.240	0.99	YES	1.0852	0.00000
2	41 Total Hexa-Dioxins	33.63	33.99	6.469e2	5.588e2	1.240	1.16	NO	0.75934	0.75934



191217K2_10 - 1903648-02 PDI-073SC-A-12-12.6-191013 14 14 - PDI-073SC-A-12-12.6-191013

#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R	ART	ART Fat	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	4.04e5	0.52	NO	0.7343	9.996	35.37	36.36	1.035	1.035	NO	180.1	90.0	0.952	
32	13C-1,2,3,4,6,7,8-HpCDF	3.64e5	0.45	NO	0.7542	9.996	37.06	37.10	1.066	1.066	NO	158.1	79.0	1.17	
33	13C-1,2,3,4,7,8,9-HpCDF	2.71e5	0.45	NO	0.5360	9.996	39.11	39.13	1.145	1.146	NO	164.4	82.1	1.63	
34	13C-OCDF	5.77e5	0.85	NO	0.5925	9.996	41.87	41.99	1.229	1.229	NO	318.2	79.7	0.782	
35	37Cl-2,3,7,8-TCDD	2.32e5			1.0695	9.996	26.18	26.17	1.028	1.028	NO	74.03	52.5	0.9969	
36	13C-1,2,3,4-TCDD	5.86e5	0.78	NO	1.0000	9.996	25.45	25.47	1.000	1.000	NO	200.1	100	0.427	
37	13C-1,2,3,4-TCDF	9.24e5	0.73	NO	1.0000	9.996	23.55	23.57	1.000	1.000	NO	200.1	100	0.535	
38	13C-1,2,3,4,6,9-HxCDF	6.11e5	0.53	NO	1.0000	9.996	34.16	34.16	1.000	1.000	NO	200.1	100	0.699	
39	Total Tetra-Dioxins				0.9249	9.996	24.62		0.600		NO			0.0860	
40	Total Penta-Dioxins				0.9046	9.996	29.96		0.000		NO	0.0000		0.0342	0.3524
41	Total Hexa-Dioxins				0.9675	9.996	33.63		0.600		NO	0.7996		0.156	1.865
42	Total Hepta-Dioxins				1.0275	9.996	38.80		0.000		NO	2.275		0.276	3.241
43	Total Tetra-Furans				0.9376	9.996	23.81		0.000		NO	0.1815		0.120	1.068

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	33.18	9.530e2	9.671e2	1.240	0.99	YES	1.0652	0.00000
2	41 Total Hexa-Dioxins	33.63	33.99	7.109e2	5.688e2	1.240	1.27	NO	0.79963	0.79963



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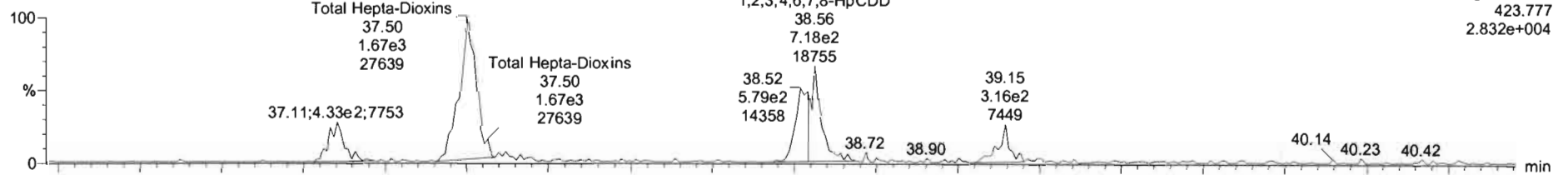
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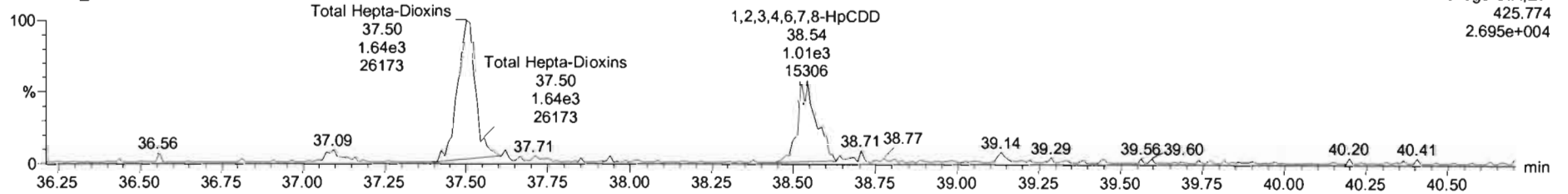
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1,2,3,4,6,7,8-HpCDD

191217K2_10

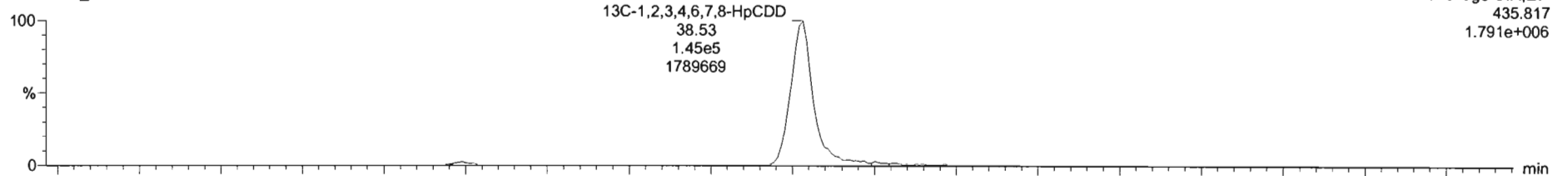


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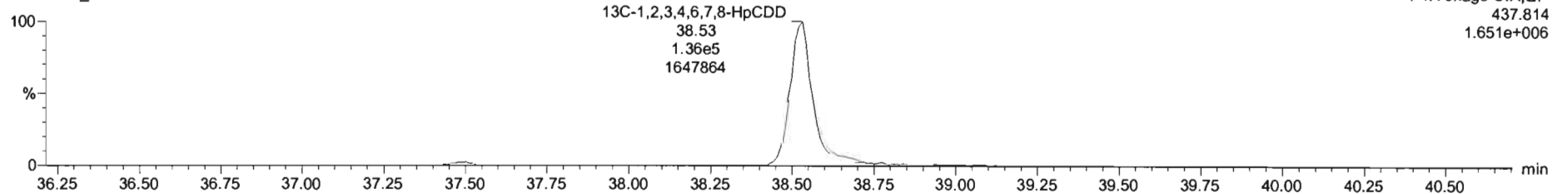


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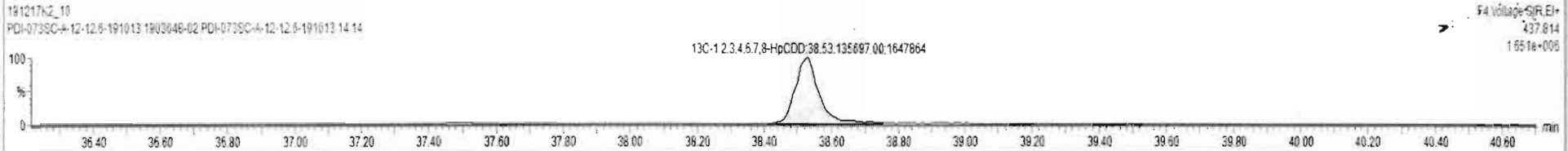
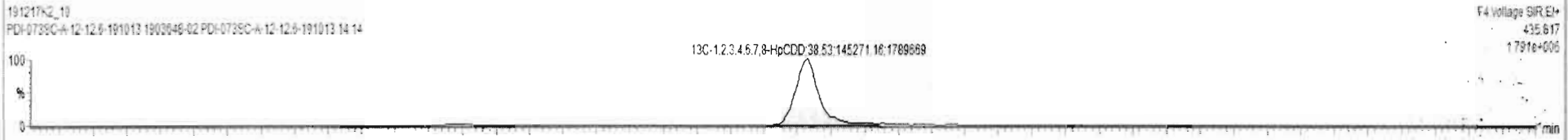
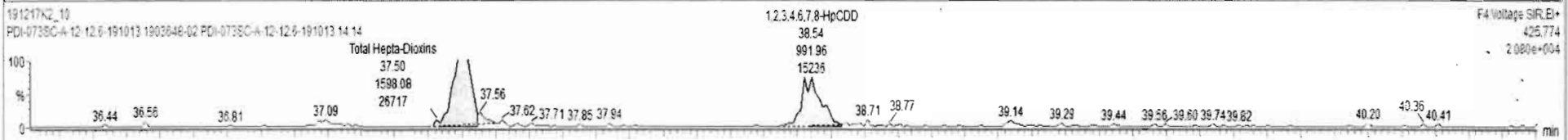
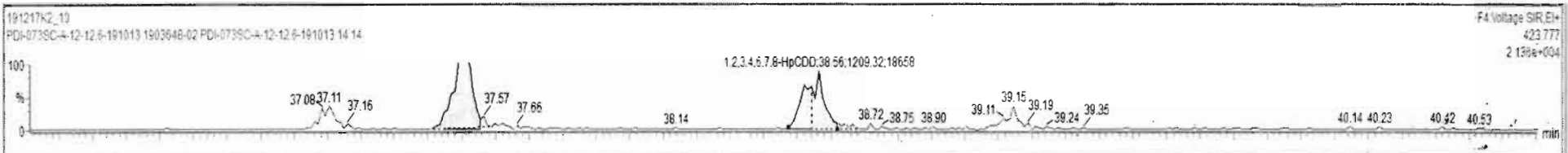
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191217K2_10 - 1903648-02 PDI-073SC-A-12-12.6-191013 14.14 - PDI-073SC-A-12-12.6-191013

#	Name	Resp	RA	n/y	RRF	w/vol	Pred RT	RT	Pred.R.	RRT	RRT Fai	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	4.04e5	0.52	NO	0.7343	9.996	36.37	36.25	1.035	1.035	NO	160.1	90.0	0.552	
32	13C-1,2,3,4,6,7,8-HpCDF	3.64e5	0.45	NO	0.7542	9.996	37.08	37.10	1.085	1.086	NO	156.1	78.0	1.17	
33	13C-1,2,3,4,7,8,9-HpCDF	2.71e5	0.45	NO	0.5390	9.996	39.11	39.13	1.145	1.146	NO	164.4	82.1	1.03	
34	13C-OCDF	5.77e5	0.85	NO	0.5925	9.996	41.97	41.99	1.229	1.229	NO	313.8	79.7	0.782	
35	37Cl-2,3,7,8-TCDD	2.32e5			1.0695	9.996	26.16	26.17	1.026	1.026	NO	74.03	92.5	0.0009	
36	13C-1,2,3,4-TCDD	5.88e5	0.76	NO	1.0000	9.996	25.45	25.47	1.000	1.000	NO	200.1	100	0.427	
37	13C-1,2,3,4-TCDF	9.24e5	0.73	NO	1.0000	9.996	23.55	23.57	1.000	1.000	NO	200.1	100	0.535	
38	13C-1,2,3,4,6,9-HxCDF	6.11e5	0.53	NO	1.0000	9.996	34.16	34.16	1.000	1.000	NO	200.1	100	0.896	
39	Total Tetra-Dioxins				0.9249	9.996	24.62		0.000		NO			0.0800	
40	Total Penta-Dioxins				0.9046	9.996	29.96		0.000		NO	0.0000		0.0342	0.3524
41	Total Hexa-Dioxins				0.9675	9.996	33.63		0.000		NO	0.7996		0.156	1.885
42	Total Hepta-Dioxins				1.0375	9.996	38.80		0.000		NO	2.239		0.276	3.628
43	Total Tetra-Furans				0.9376	9.996	23.61		0.000		NO	0.1815		0.120	1.068

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	42 Total Hepta-Dioxins	38.80	37.50	1.663e3	1.598e3	1.040	1.04	NO	2.2396	2.2386
2	6 1,2,3,4,6,7,8-HpCDD	38.54	38.56	1.209e3	9.920e2	1.040	1.22	YES	1.3696	0.00000



Ready

191217K2_10

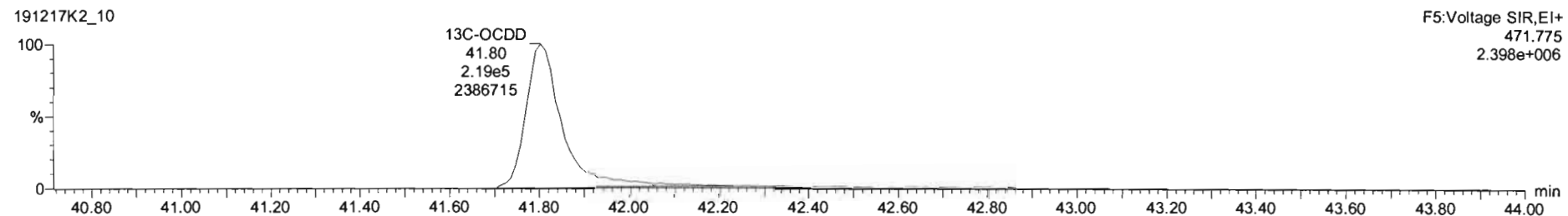
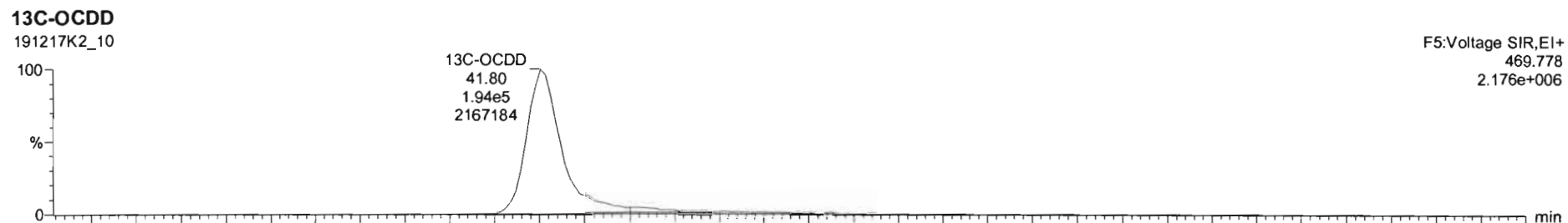
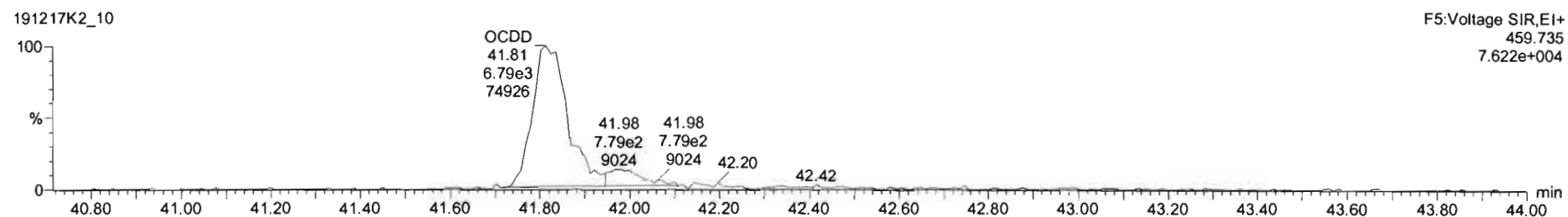
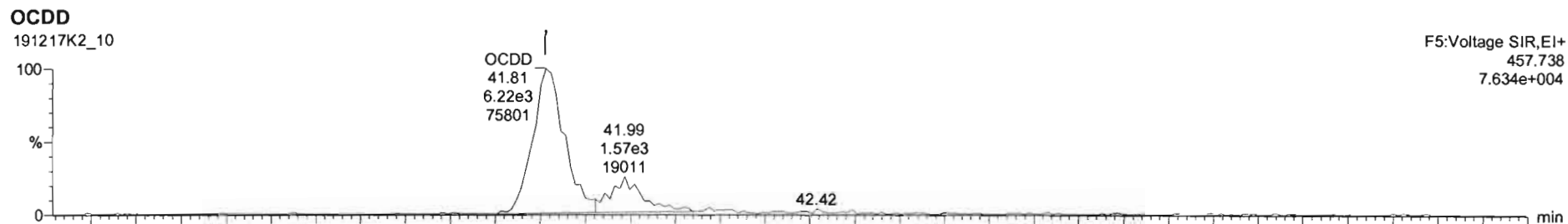
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

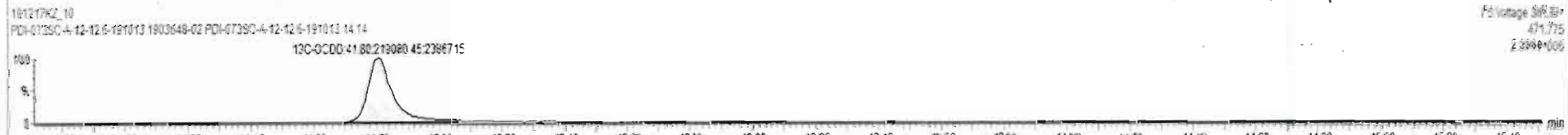
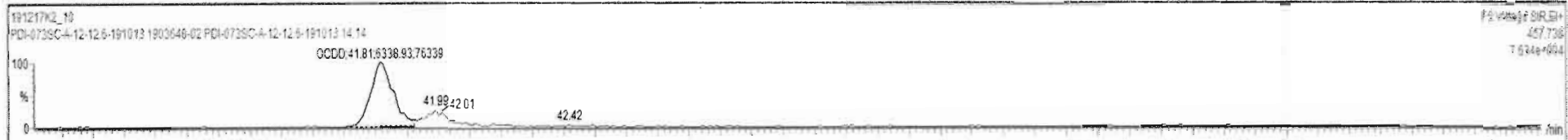
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191217K2_10 - 1903648-02 PDI-073SC-A-12-12-6-191013 14.14 - PDI-073SC-A-12-12-6-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT fail	Conc.	%Rec	DL	EMPC
4	1,2,3,6,7,8-HxCDD				0.9675	9.996	34.75		1.000		YES			0.148	
5	1,2,3,7,8,9-HxCDD				0.9776	9.996	35.06		1.001		YES			0.160	
6	1,2,3,4,6,7,8-HpCDD	2.20e3	1.22	YES	1.0375	9.996	38.54	38.56	1.000	1.001	NO	1.511		0.276	1.389
7	OCDD	1.29e4	0.97	NO	0.9716	9.996	41.80	41.81	1.000	1.000	NO	12.64		0.433	12.64
8	2,3,7,8-TCDF	6.67e2	1.12	YES	0.9376	9.996	25.20	25.19	1.001	1.001	NO	9.1810		0.120	0.1514
9	1,2,3,7,8-PeCDF				0.9762	9.996	30.00		1.001		YES			0.0840	
10	2,3,4,7,8-PeCDF				1.0249	9.996	21.00		1.001		YES			0.0832	
11	1,2,3,4,7,8-HxCDF				1.2434	9.996	33.78		1.000		YES			0.0531	
12	1,2,3,6,7,8-HxCDF				1.0850	9.996	33.91		1.000		YES			0.0529	
13	2,3,4,6,7,8-HxCDF				1.1806	9.996	34.51		1.001		YES			0.0555	
14	1,2,3,7,8,9-HxCDF				1.0726	9.996	35.35		1.000		YES			0.0502	
15	1,2,3,4,6,7,8-HpCDF				1.1300	9.996	37.14		1.001		YES			0.0790	
16	1,2,3,4,7,8,9-HpCDF				1.2609	9.996	39.13		1.000		YES			0.0659	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	I ^o Ratio (Pred)	RA	n/y	EMPC	Conc.
1										

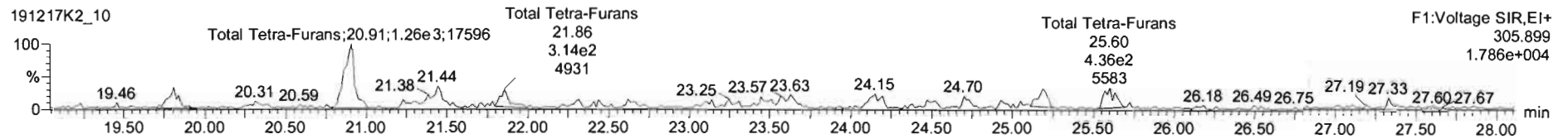
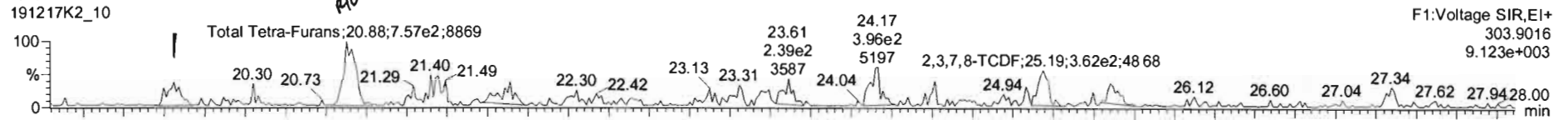


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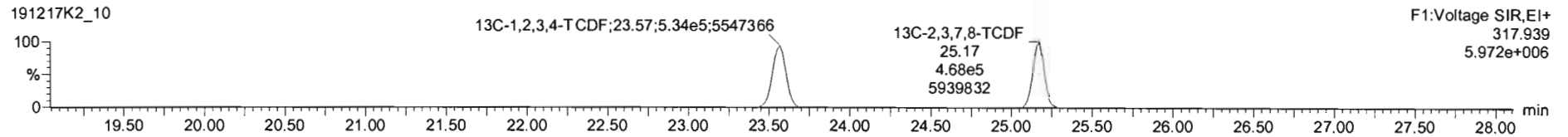
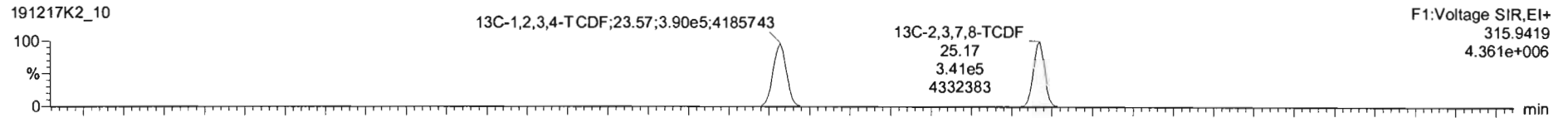
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Name: 191217K2_10, Date: 17-Dec-2019, Time: 21:06:27, ID: 1903648-02 PDI-073SC-A-12-12.6-191013 14.14, Description: PDI-073SC-A-12-12.6-191013

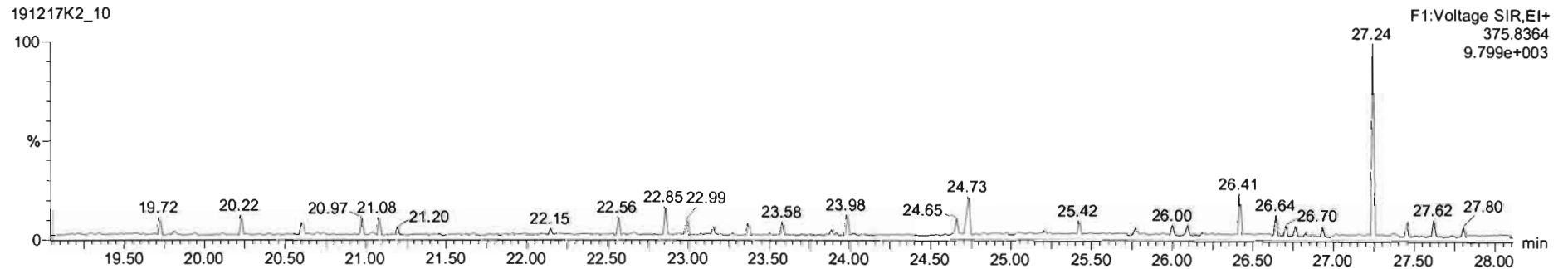
2,3,7,8-TCDF



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



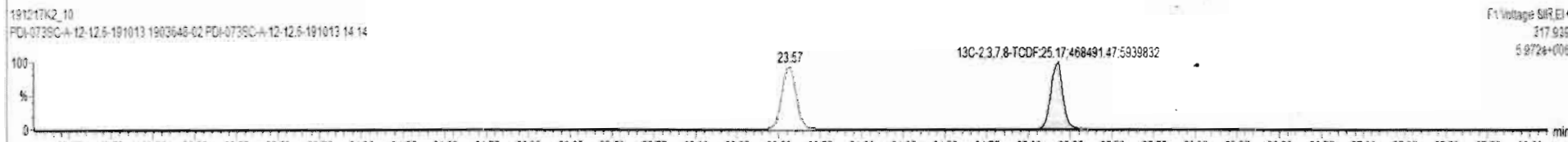
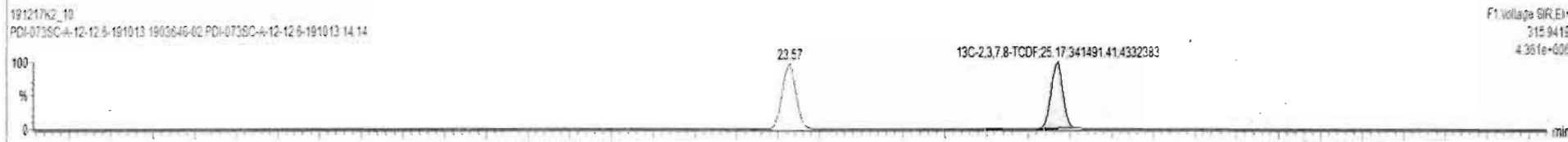
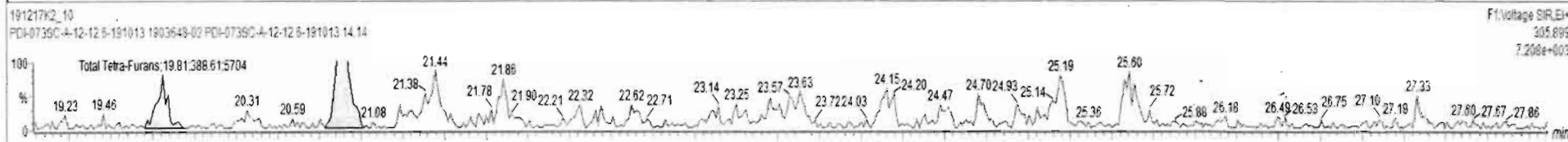
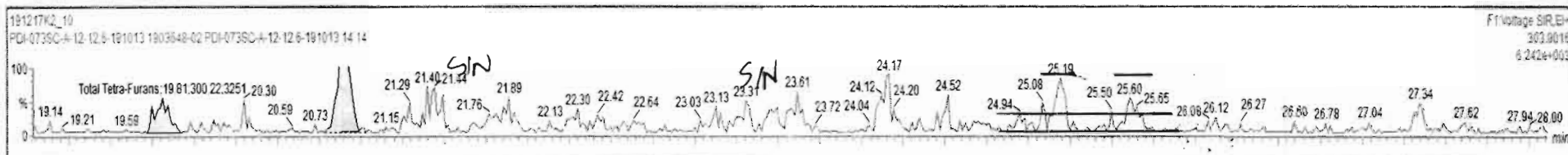
DPE1



191217K2_10 - 1903648-02 PDI-073SC-A-12-12.6-191013 14.14 - PDI-073SC-A-12-12.6-191013

#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	9.24e5	0.73	NO	1.0000	9.996	23.55	23.57	1.000	1.000	NO	200.1	100	0.536	
38	13C-1,2,3,4,6,9-HxCDF	6.11e5	0.53	NO	1.0000	9.996	34.16	34.16	1.000	1.000	NO	200.1	100	0.999	
39	Total Tetra-Dioxins				0.9249	9.996	24.62		0.000		NO			0.0860	
40	Total Penta-Dioxins				0.9046	9.996	29.96		0.000		NO	0.0000		0.0342	0.3524
41	Total Hexa-Dioxins				0.9675	9.996	33.63		0.000		NO	0.7596		0.156	1.885
42	Total Hepta-Dioxins				1.0375	9.996	36.80		0.000		NO	2.239		0.276	3.628
43	Total Tetra-Furans				0.9376	9.996	23.61		0.000		NO	0.1615		0.120	0.6237
44	1st Func. Penta-Furans				0.9762	9.996	27.04		0.000		NO			0.0151	
45	Total Penta-Furans				0.9762	9.996	29.27		0.000		NO			0.0421	
46	Total Hexa-Furans				1.1806	9.996	33.56		0.000		NO			0.0320	
47	Total Hepta-Furans				1.1300	9.996	37.63		0.000		NO			0.0478	
48	PFK1														
49	PFK2														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.81	3.002e2	3.686e2	0.770	0.77	NO	0.18145	0.18148
2	43 Total Tetra-Furans	23.61	20.68	7.302e2	1.260e3	0.770	0.56	YES	0.44223	0.00000



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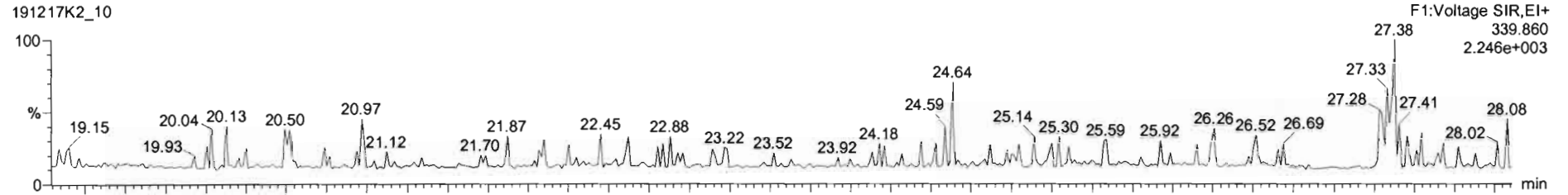
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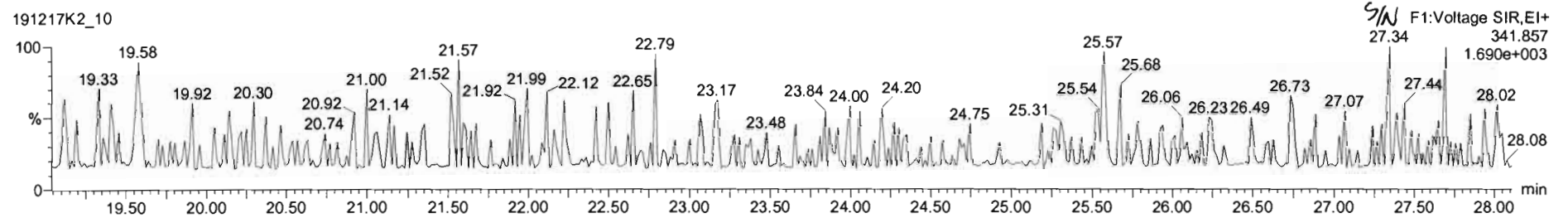
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1st Func. Penta-Furans

191217K2_10

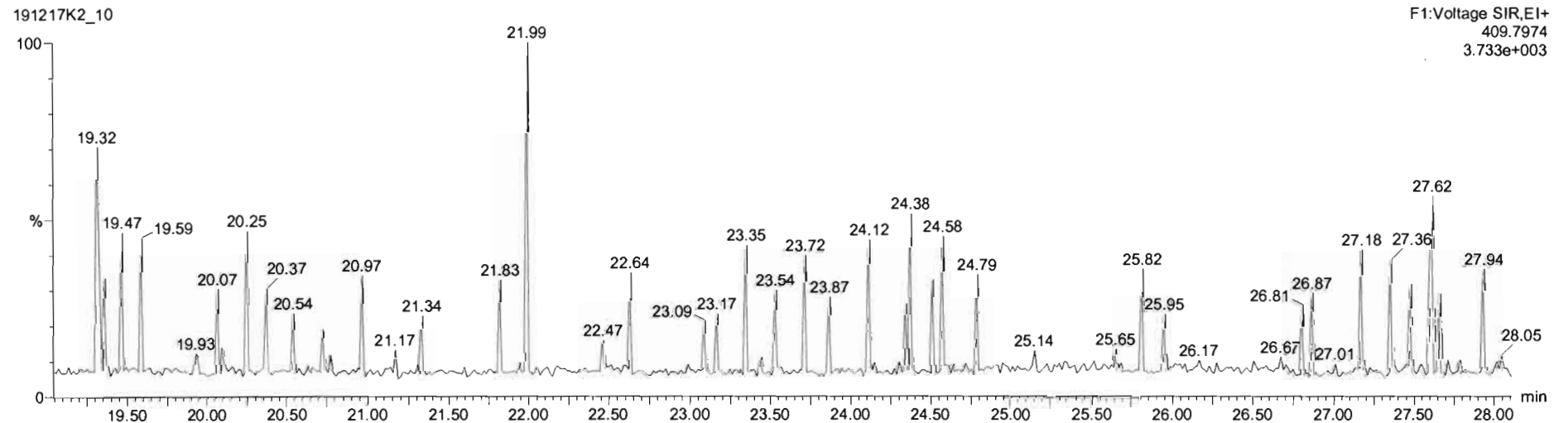


191217K2_10



DPE6

191217K2_10



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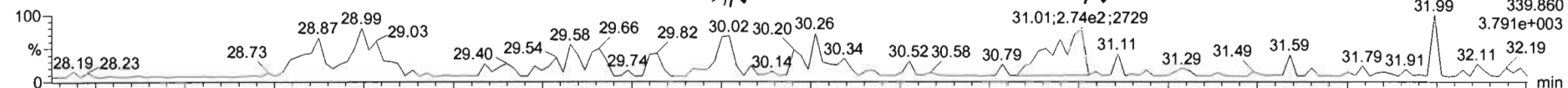
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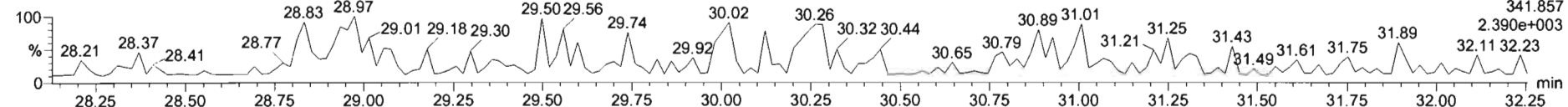
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1,2,3,7,8-PeCDF

191217K2_10

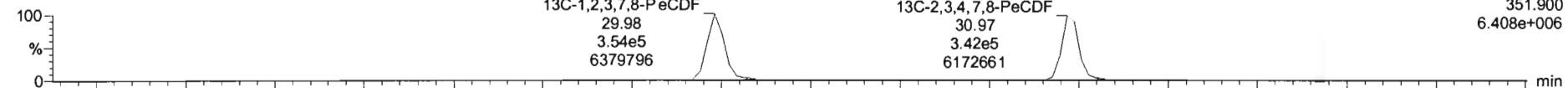


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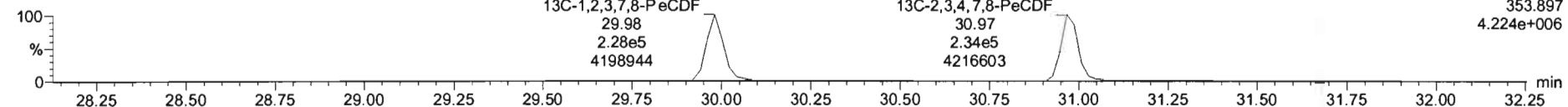


13C-1,2,3,7,8-PeCDF

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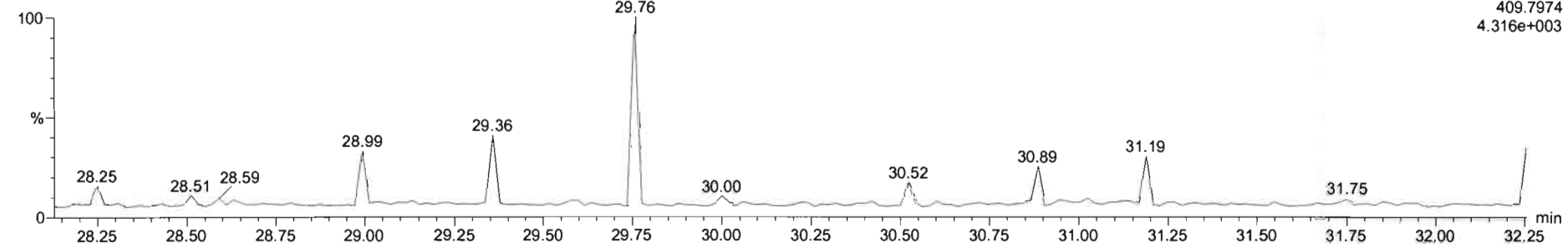


191217K2_10



DPE2

191217K2_10



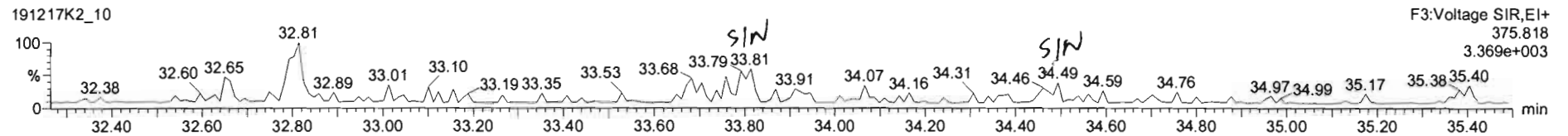
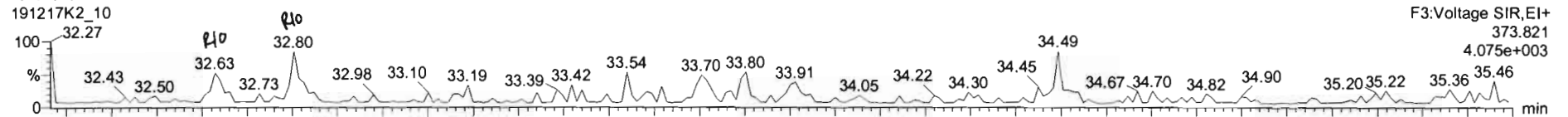
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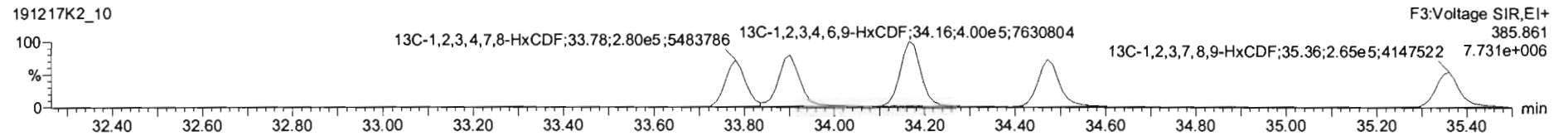
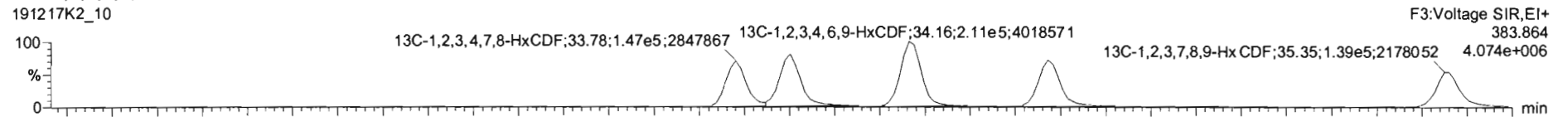
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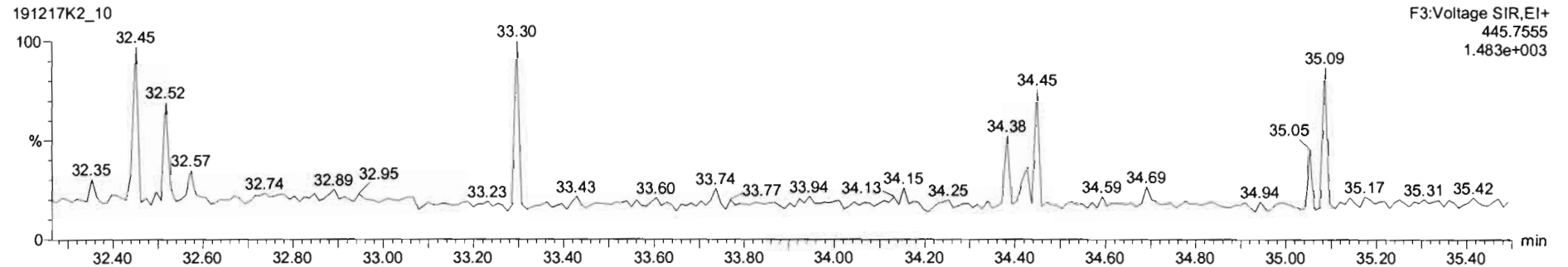
1,2,3,4,7,8-HxCDF



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



DPE3

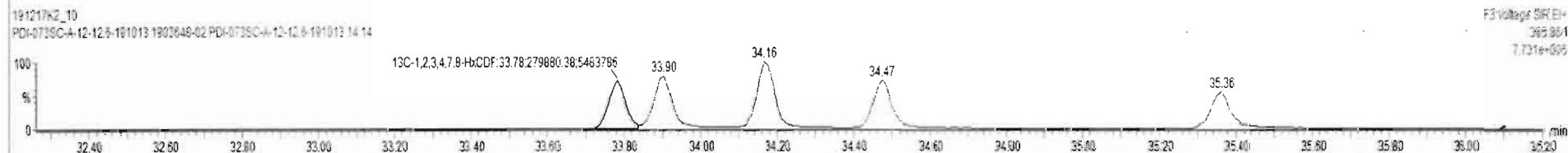
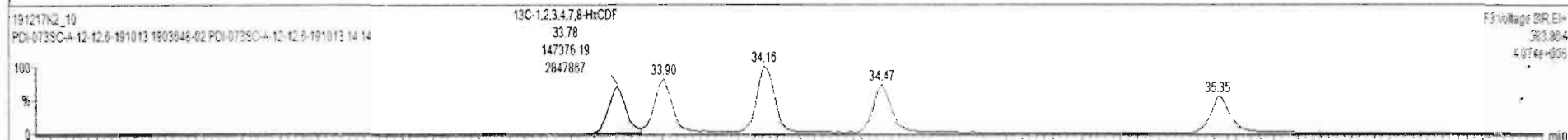
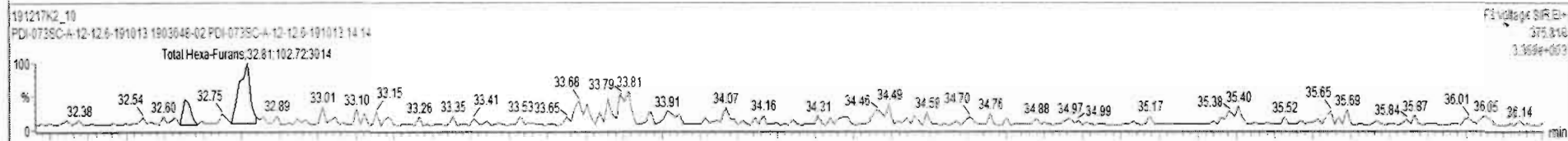
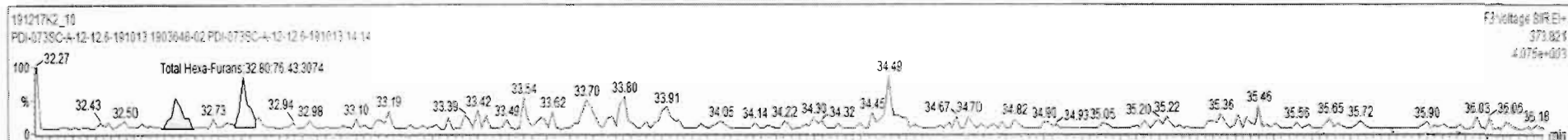




191217K2_10 - 1903648-02 PDI-073SC-A-12-12.6-191013 14.14 - PDI-073SC-A-12-12.6-191013

#	Name	Resp	RA	nly	RRF	wfVol	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	9.24e5	0.73	NO	1.0000	9.996	23.55	23.57	1.000	1.000	NO	200.1	100	0.536	
38	13C-1,2,3,4,6,8-HxCDF	6.11e5	0.53	NO	1.0000	9.996	34.16	34.16	1.000	1.000	NO	200.1	100	0.869	
39	Total Tetra-Dioxins				0.9249	9.996	24.62		0.000		NO			0.0880	
40	Total Penta-Dioxins				0.9048	9.996	29.96		0.000		NO	0.0000		0.0342	0.3524
41	Total Hexa-Dioxins				0.9675	9.996	33.63		0.000		NO	0.7596		0.156	1.685
42	Total Hepta-Dioxins				1.0375	9.996	38.20		0.000		NO	2.239		0.278	3.628
43	Total Tetra-Furans				0.9376	9.996	23.61		0.000		NO	0.1815		0.120	0.6237
44	1st Func. Penta-Furans				0.9762	9.996	27.04		0.000		NO			0.0151	
45	Total Penta-Furans				0.9762	9.996	29.27		0.000		NO			0.0421	
46	Total Hexa-Furans				1.1806	9.996	33.56		0.000		NO	0.0000		0.0320	0.07653
47	Total Hepta-Furans				1.1300	9.996	37.83		0.000		NO			0.0478	
48	PFK1														
49	PFK2														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc
1	Total Hexa-Furans	33.56	32.63	6.333e1	2.914e1	1.240	2.17	YES	0.024565	0.00000
2	Total Hexa-Furans	33.56	32.60	7.643e1	1.027e2	1.240	0.74	YES	0.051961	0.00000



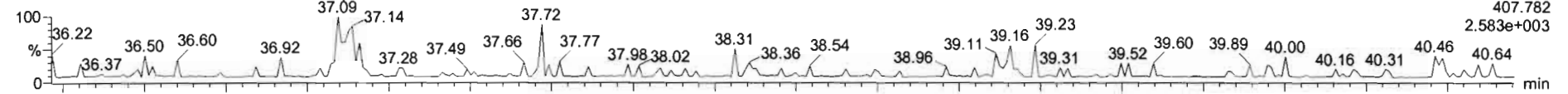
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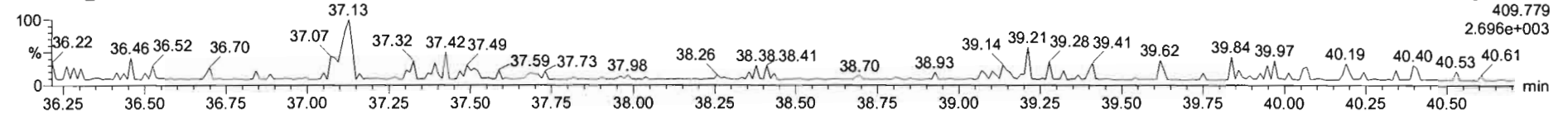
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1,2,3,4,6,7,8-HpCDF

191217K2_10

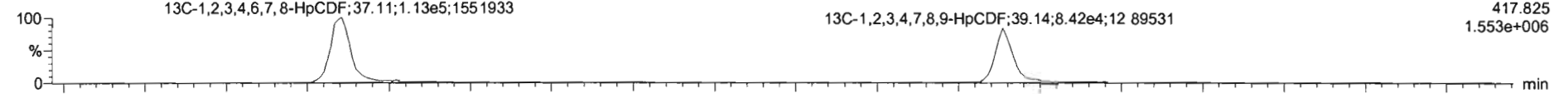


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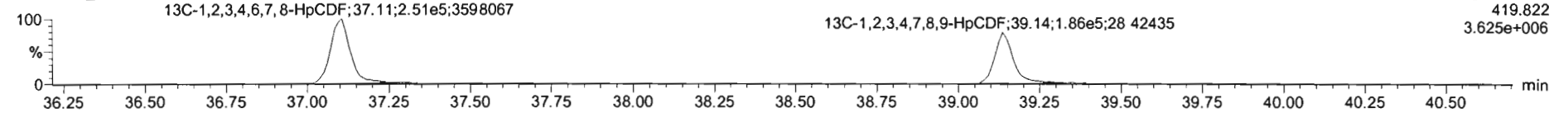


13C-1,2,3,4,6,7,8-HpCDF

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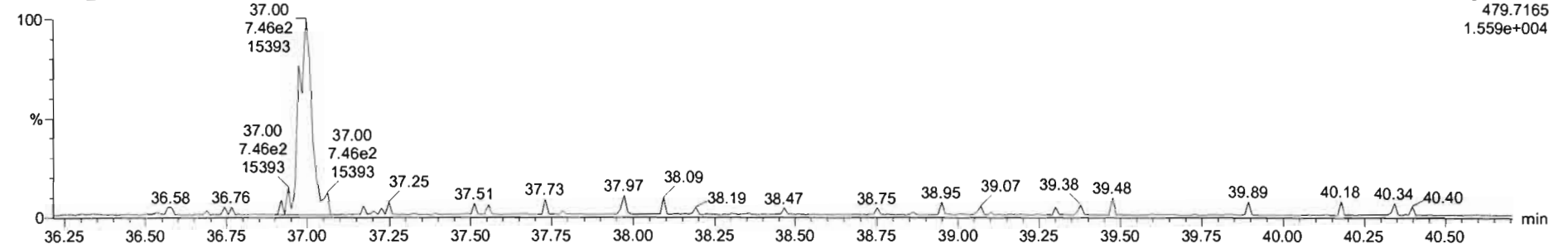


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DPE4

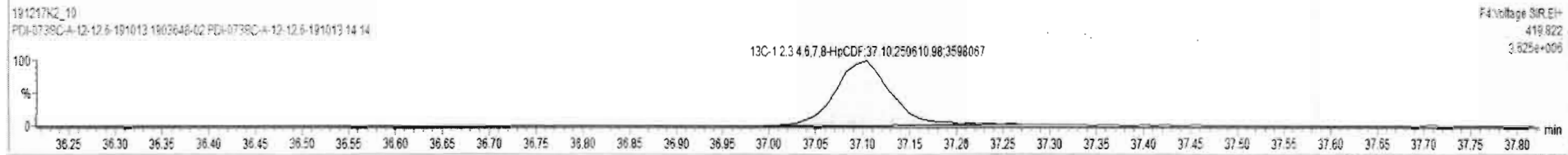
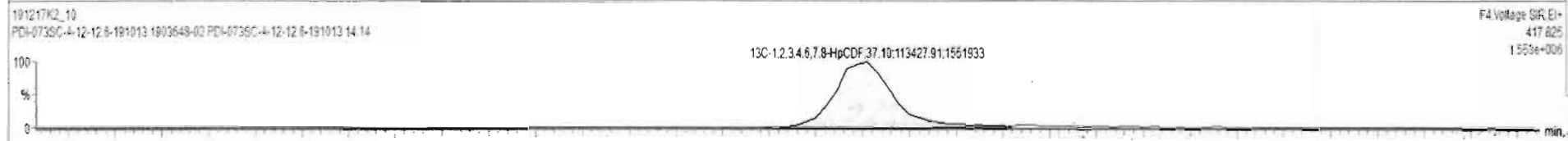
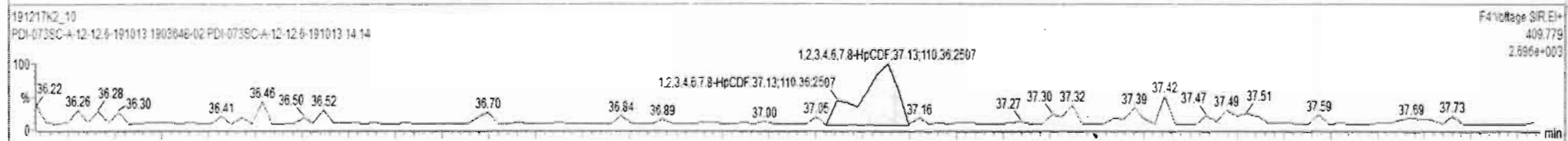
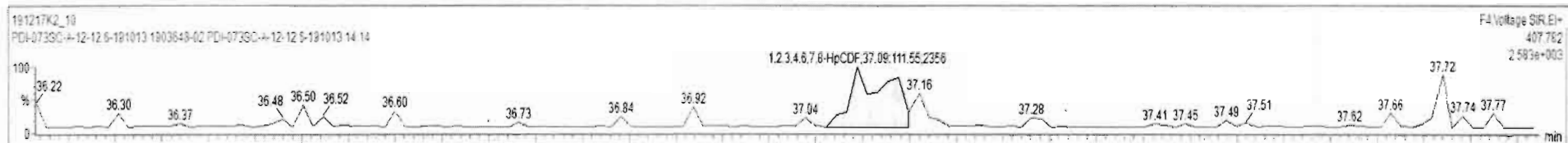
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191217K2_10 - 1903648-02 PDI-073SC-A-12-12.6-191013 14.14 - PDI-073SC-A-12-12.6-191013

#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT fac	Conc	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	9.24e5	0.73	NO	1.0000	9.996	23.55	23.57	1.000	1.000	NO	200.1	100	0.538	
38	13C-1,2,3,4,6,8-HxCDF	6.11e5	0.53	NO	1.0000	9.996	34.16	34.16	1.000	1.000	NO	200.1	100	0.895	
39	Total Tetra-Dioxins				0.9248	9.996	24.62		0.000		NO			0.0860	
40	Total Penta-Dioxins				0.9046	9.996	29.96		0.000		NO	0.0000		0.0342	0.3524
41	Total Hexa-Dioxins				0.9875	9.996	33.63		0.000		NO	0.7598		0.158	1.865
42	Total Hepta-Dioxins				1.0375	9.996	38.00		0.000		NO	2.239		0.276	3.628
43	Total Tetra-Furans				0.9376	9.996	23.61		0.000		NO	0.1815		0.120	0.6237
44	1st Func. Penta-Furans				0.9762	9.996	27.04		0.000		NO			0.0151	
45	Total Penta-Furans				0.9762	9.996	29.27		0.000		NO			0.0421	
46	Total Hexa-Furans				1.1806	9.996	33.56		0.000		NO	0.0000		0.0320	0.07653
47	Total Hepta-Furans				1.1300	9.996	37.83		0.000		NO	0.1079		0.0478	0.1079
48	PFK1														
49	PFK2														

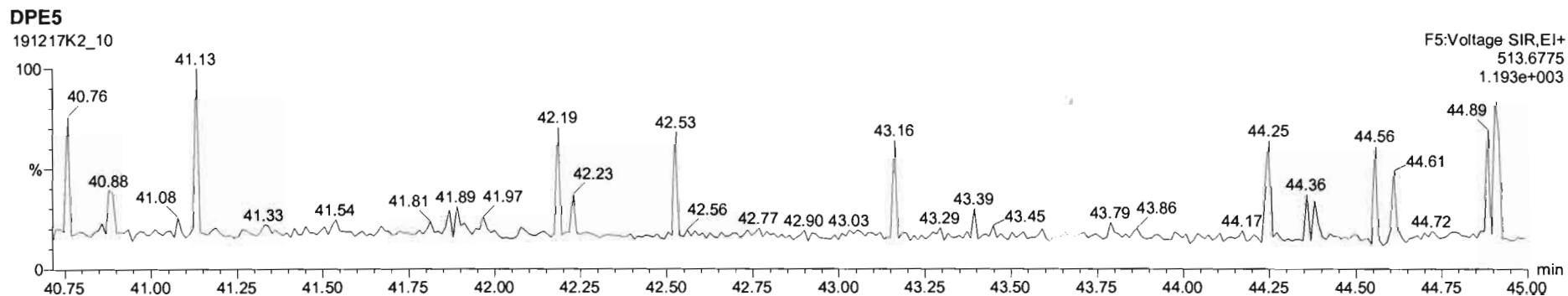
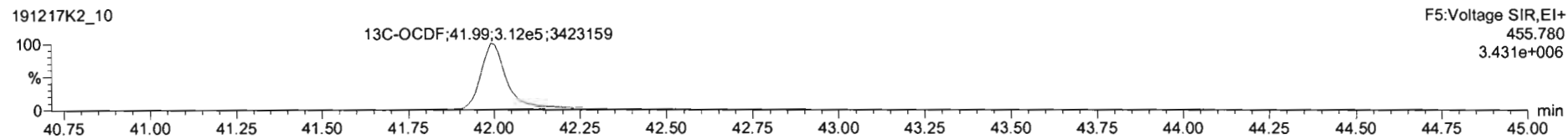
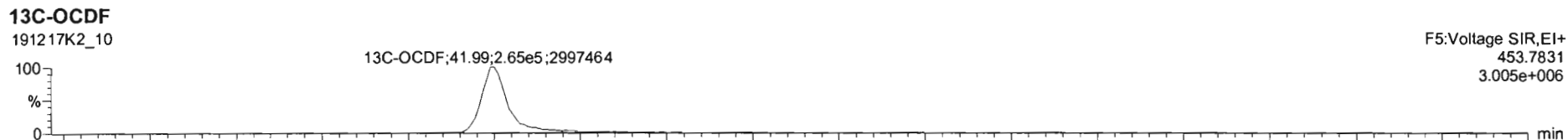
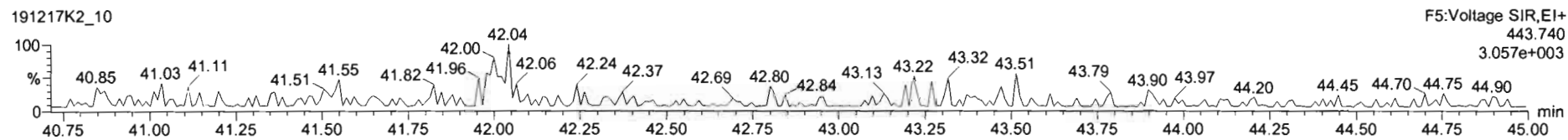
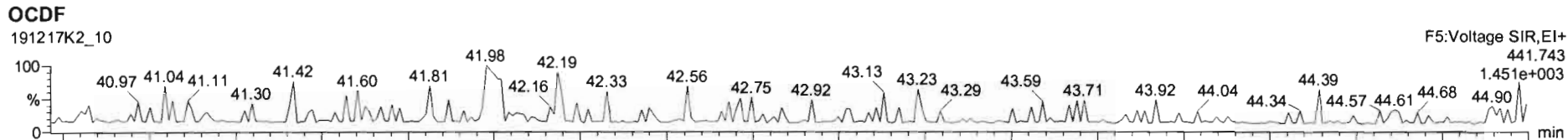
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.14	37.09	1.116e2	1.104e2	1.040	1.01	NO	0.10794	0.10794



Dataset: Untitled

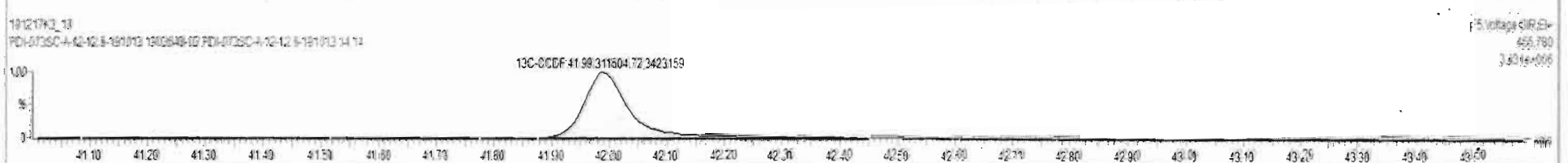
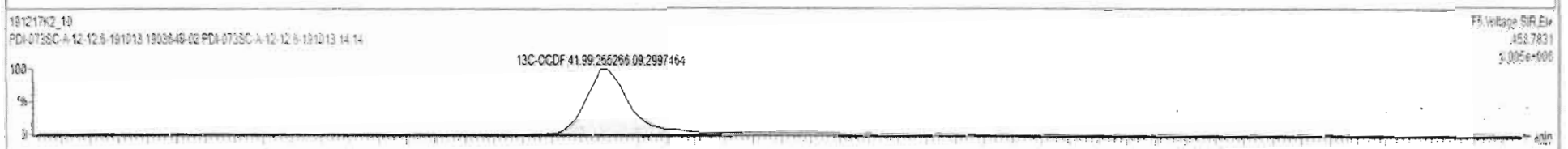
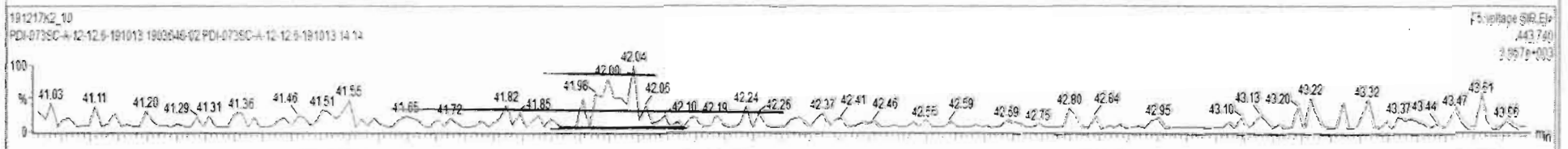
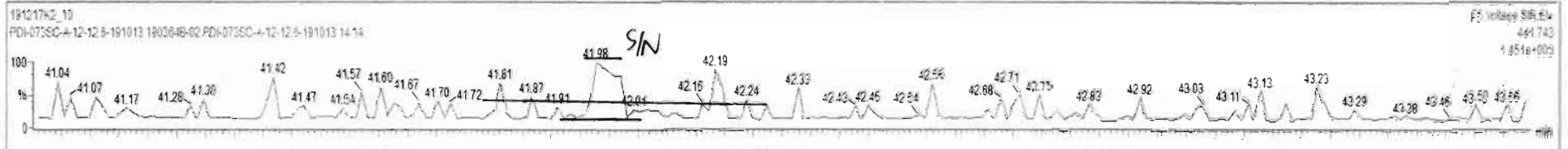
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_10, Date: 17-Dec-2019, Time: 21:06:27, ID: 1903648-02 PDI-073SC-A-12-12.6-191013 14.14, Description: PDI-073SC-A-12-12.6-191013



#	Name	Resp	RA	ny	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
9	1,2,3,7,8-PeCDF				0.9762	9.996	30.00		1.001		YES			0.0348	
10	2,3,4,7,8-PeCDF				1.0849	9.996	31.00		1.001		YES			0.0832	
11	1,2,3,4,7,8-HxCDF				1.2434	9.996	33.78		1.000		YES			0.0531	
12	1,2,3,6,7,8-HxCDF				1.0550	9.996	33.91		1.000		YES			0.0529	
13	2,3,4,6,7,8-HxCDF				1.1806	9.996	34.51		1.001		YES			0.0255	
14	1,2,3,7,8,9-HxCDF				1.0728	9.996	35.35		1.000		YES			0.0802	
15	1,2,3,4,6,7,8-HpCDF	2.22e2	1.01	NO	1.1300	9.996	37.14	37.09	1.001	1.000	NO	0.1078		0.0440	0.1078
16	1,2,3,4,7,8,9-HpCDF				1.2609	9.996	39.13		1.000		YES			0.0259	
17	OCDF				1.1825	9.996	41.99		1.000		YES			0.196	
18	13C-2,3,7,8-TCDD	5.58e5	0.77	NO	1.0489	9.996	26.16	26.15	1.027	1.027	NO	181.6	80.8	0.407	
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.64	NO	0.7429	9.996	31.31	31.29	1.236	1.229	NO	195.4	97.7	0.516	
20	13C-1,2,3,4,7,8-HxCDD	1.03e5	1.23	NO	0.8483	9.996	34.64	34.65	1.014	1.014	NO	153.4	76.7	0.631	
21	13C-1,2,3,6,7,8-HxCDD	3.56e5	1.24	NO	0.7797	9.996	34.73	34.75	1.017	1.017	NO	150.3	75.1	0.525	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	ny	EMPC	Conc.
1										

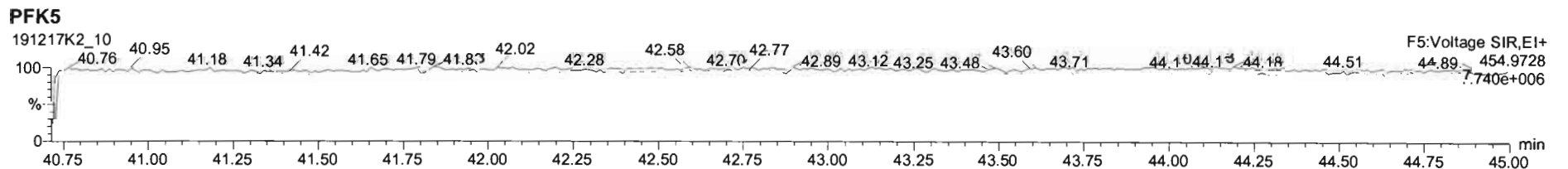
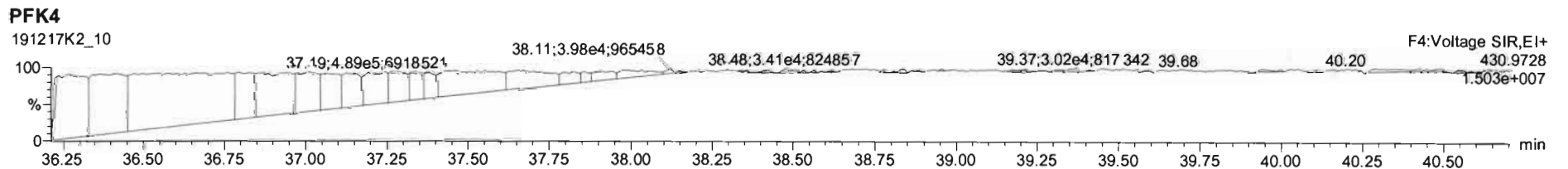
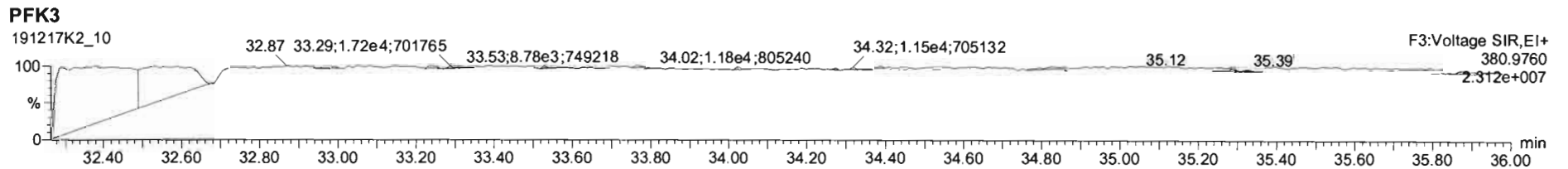
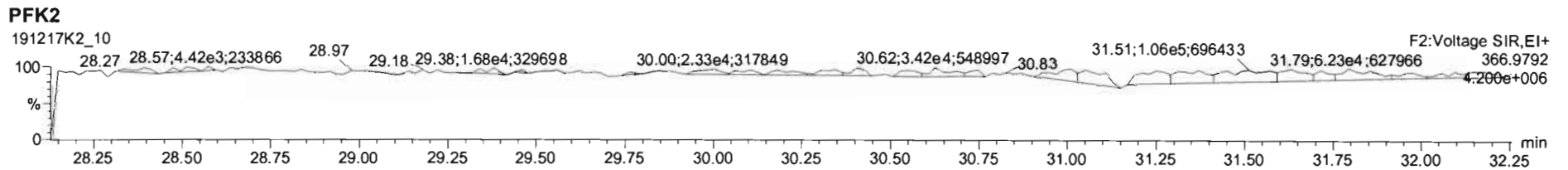
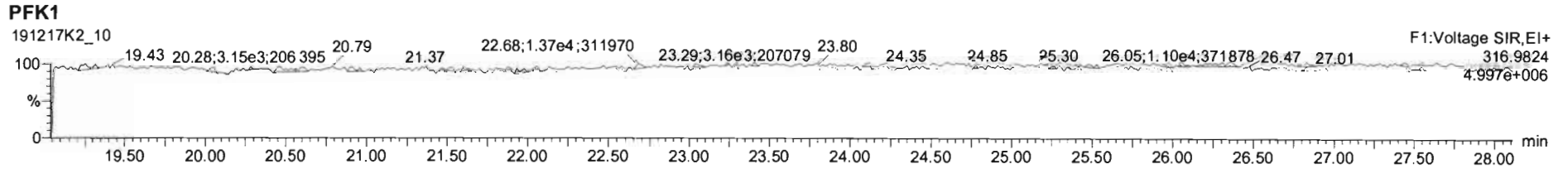


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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_10, Date: 17-Dec-2019, Time: 21:06:27, ID: 1903648-02 PDI-073SC-A-12-12.6-191013 14.14, Description: PDI-073SC-A-12-12.6-191013



Dataset: U:\VG11.PRO\Results\191217K2\191217K2-11.qld

Last Altered: Friday, December 20, 2019 15:25:23 Pacific Standard Time

Printed: Friday, December 20, 2019 15:27:49 Pacific Standard Time

EL 12/20/19

C1 12/20/19

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.925	10.006	26.18		1.00		YES			0.170	
2	2 1,2,3,7,8-PeCDD				0.905	10.006	31.31		1.00		YES			0.114	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.006	34.66		1.00		YES			0.196	
4	4 1,2,3,6,7,8-HxCDD				0.967	10.006	34.75		1.00		YES			0.177	
5	5 1,2,3,7,8,9-HxCDD				0.978	10.006	35.06		1.00		YES			0.216	
6	6 1,2,3,4,6,7,8-HpCDD	1487.005	0.944	NO	1.04	10.006	38.54	38.56	1.00	1.00	NO	1.300		0.236	1.300
7	7 OCDD	6522.171	0.932	NO	0.972	10.006	41.80	41.82	1.00	1.00	NO	8.366		0.742	8.366
8	8 2,3,7,8-TCDF	677.316	0.897	YES	0.938	10.006	25.18	25.17	1.00	1.00	NO	0.2148		0.128	0.2004
9	9 1,2,3,7,8-PeCDF				0.976	10.006	30.00		1.00		YES			0.0772	
10	10 2,3,4,7,8-PeCDF				1.00	10.006	31.00		1.00		YES			0.0786	
11	11 1,2,3,4,7,8-HxCDF				1.24	10.006	33.78		1.00		YES			0.0814	
12	12 1,2,3,6,7,8-HxCDF				1.10	10.006	33.91		1.00		YES			0.0794	
13	13 2,3,4,6,7,8-HxCDF				1.18	10.006	34.51		1.00		YES			0.0849	
14	14 1,2,3,7,8,9-HxCDF				1.07	10.006	35.36		1.00		YES			0.120	
15	15 1,2,3,4,6,7,8-HpCDF				1.13	10.006	37.14		1.00		YES			0.0746	
16	16 1,2,3,4,7,8,9-HpCDF				1.26	10.006	39.15		1.00		YES			0.0863	
17	17 OCDF				1.10	10.006	42.00		1.00		YES			0.179	
18	18 13C-2,3,7,8-TCDD	453483.422	0.773	NO	1.05	10.006	26.15	26.15	1.03	1.03	NO	154.0	77.0	0.398	
19	19 13C-1,2,3,7,8-PeCDD	330884.680	0.610	NO	0.743	10.006	31.29	31.29	1.23	1.23	NO	158.6	79.4	0.408	
20	20 13C-1,2,3,4,7,8-HxCDD	229736.617	1.212	NO	0.646	10.006	34.64	34.65	1.01	1.01	NO	128.5	64.3	0.751	
21	21 13C-1,2,3,6,7,8-HxCDD	295038.359	1.168	NO	0.777	10.006	34.73	34.75	1.02	1.02	NO	137.3	68.7	0.625	
22	22 13C-1,2,3,7,8,9-HxCDD	248887.055	1.147	NO	0.659	10.006	35.01	35.02	1.02	1.03	NO	136.4	68.2	0.735	
23	23 13C-1,2,3,4,6,7,8-HpCDD	220288.579	1.073	NO	0.534	10.006	38.51	38.53	1.13	1.13	NO	149.1	74.6	0.690	
24	24 13C-OCDD	320702.062	0.866	NO	0.470	10.006	41.79	41.80	1.22	1.22	NO	246.4	61.6	0.879	
25	25 13C-2,3,7,8-TCDF	672119.156	0.719	NO	0.977	10.006	25.16	25.16	0.99	0.99	NO	162.6	81.3	0.639	
26	26 13C-1,2,3,7,8-PeCDF	466279.751	1.484	NO	0.778	10.006	29.98	29.98	1.18	1.18	NO	141.8	70.9	0.740	
27	27 13C-2,3,4,7,8-PeCDF	462734.204	1.465	NO	0.750	10.006	30.97	30.97	1.22	1.22	NO	145.9	73.0	0.768	
28	28 13C-1,2,3,4,7,8-HxCDF	337289.984	0.539	NO	0.845	10.006	33.77	33.78	0.99	0.99	NO	144.2	72.2	0.833	
29	29 13C-1,2,3,6,7,8-HxCDF	415052.047	0.552	NO	1.03	10.006	33.89	33.90	0.99	0.99	NO	146.1	73.1	0.686	
30	30 13C-2,3,4,6,7,8-HxCDF	369494.555	0.533	NO	0.893	10.006	34.46	34.47	1.01	1.01	NO	149.6	74.8	0.788	

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-11.qld

Last Altered: Friday, December 20, 2019 15:25:23 Pacific Standard Time

Printed: Friday, December 20, 2019 15:27:49 Pacific Standard Time

Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	302661.633	0.549	NO	0.734	10.006	35.37	35.36	1.04	1.04	NO	149.0	74.5	0.959	
32	32 13C-1,2,3,4,6,7,8-HpCDF	305691.399	0.424	NO	0.754	10.006	37.08	37.10	1.09	1.09	NO	146.5	73.3	0.764	
33	33 13C-1,2,3,4,7,8,9-HpCDF	213409.578	0.418	NO	0.539	10.006	39.11	39.15	1.14	1.15	NO	143.1	71.6	1.07	
34	34 13C-OCDF	458078.922	0.889	NO	0.593	10.006	41.97	42.00	1.23	1.23	NO	279.4	69.9	0.815	
35	35 37Cl-2,3,7,8-TCDD	190214.156			1.07	10.006	26.17	26.17	1.03	1.03	NO	63.35	79.2	0.0834	
36	36 13C-1,2,3,4-TCDD	561181.766	0.797	NO	1.00	10.006	25.45	25.45	1.00	1.00	NO	199.9	100	0.418	
37	37 13C-1,2,3,4-TCDF	845251.126	0.738	NO	1.00	10.006	23.55	23.57	1.00	1.00	NO	199.9	100	0.625	
38	38 13C-1,2,3,4,6,9-HxCDF	553024.703	0.538	NO	1.00	10.006	34.16	34.16	1.00	1.00	NO	199.9	100	0.704	
39	39 Total Tetra-Dioxins				0.925	10.006	24.62		0.00		NO	0.0000		0.0970	0.6052
40	40 Total Penta-Dioxins				0.905	10.006	29.96		0.00		NO			0.0497	
41	41 Total Hexa-Dioxins				0.967	10.006	33.63		0.00		NO	1.045		0.202	1.045
42	42 Total Hepta-Dioxins				1.04	10.006	38.80		0.00		NO	3.285		0.236	3.285
43	43 Total Tetra-Furans				0.938	10.006	23.61		0.00		NO	0.7589		0.128	0.9593
44	44 1st Func. Penta-Furans				0.976	10.006	27.04		0.00		NO			0.0242	
45	45 Total Penta-Furans				0.976	10.006	29.27		0.00		NO	0.2291		0.0791	0.3094
46	46 Total Hexa-Furans				1.18	10.006	33.56		0.00		NO			0.0503	
47	47 Total Hepta-Furans				1.13	10.006	37.83		0.00		NO			0.0472	

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-11.qld

Last Altered: Friday, December 20, 2019 15:25:23 Pacific Standard Time

Printed: Friday, December 20, 2019 15:27:57 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	0.00e0	4.53e5	0.981	YES	24.62	21.87	0.0000	0.3270
2	39 Total Tetra-Dioxins	0.00e0	4.53e5	0.935	YES	24.62	22.25	0.0000	0.2782

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	1.30e3	0.00e0	1.255	NO	33.63	33.19	1.045	1.045

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	1.49e3	2.20e5	0.944	NO	38.54	38.56	1.300	1.300
2	42 Total Hepta-Dioxins	2.27e3	2.20e5	1.056	NO	38.80	37.50	1.984	1.984

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	8 2,3,7,8-TCDF	6.77e2	6.72e5	0.897	YES	25.18	25.17	0.0000	0.2004
2	43 Total Tetra-Furans	1.72e3	6.72e5	0.821	NO	23.61	20.89	0.5455	0.5455
3	43 Total Tetra-Furans	6.73e2	6.72e5	0.660	NO	23.61	19.78	0.2134	0.2134

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-11.qld

Last Altered: Friday, December 20, 2019 15:25:23 Pacific Standard Time

Printed: Friday, December 20, 2019 15:27:57 Pacific Standard Time

Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	5.20e2	0.00e0	1.522	NO	29.27	28.97	0.2291	0.2291
2	45 Total Penta-Furans	0.00e0	0.00e0	0.964	YES	29.27	28.83	0.0000	0.08032

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hepta-Furans

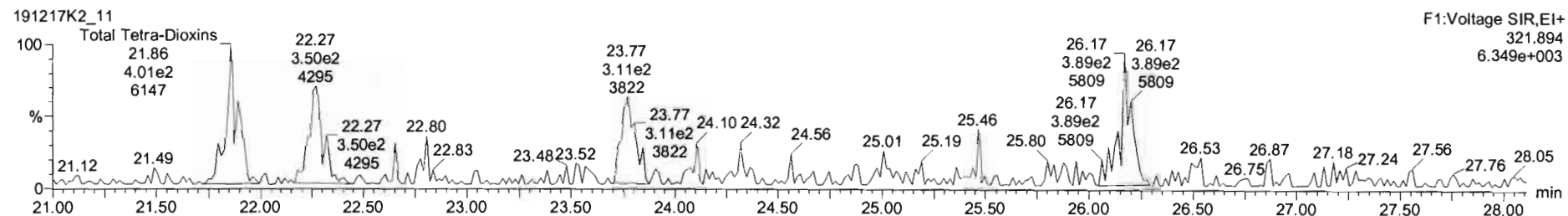
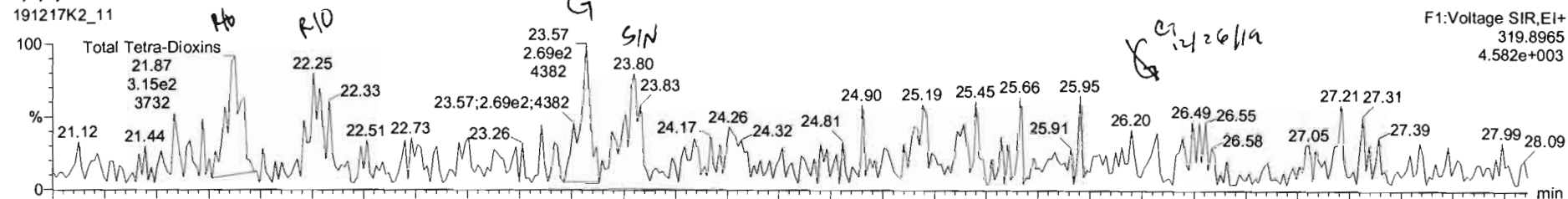
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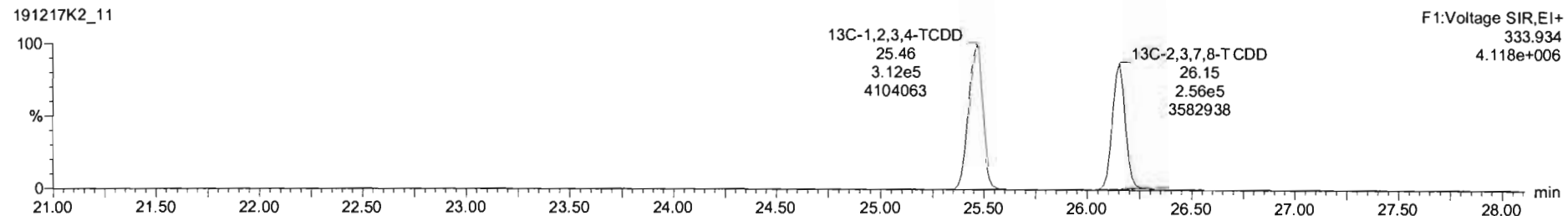
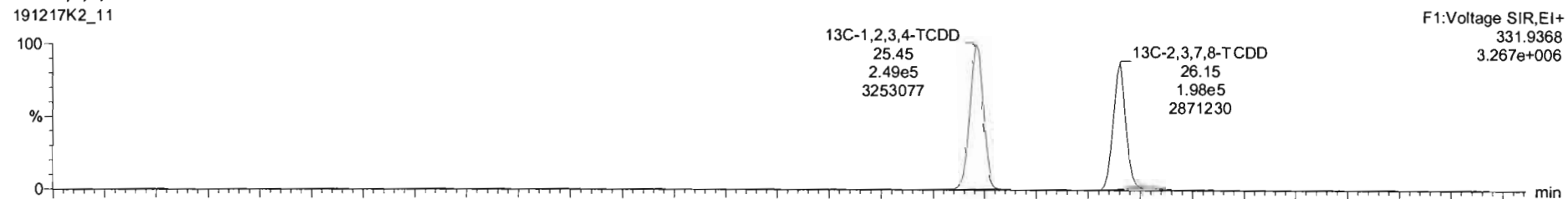
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013

2,3,7,8-TCDD



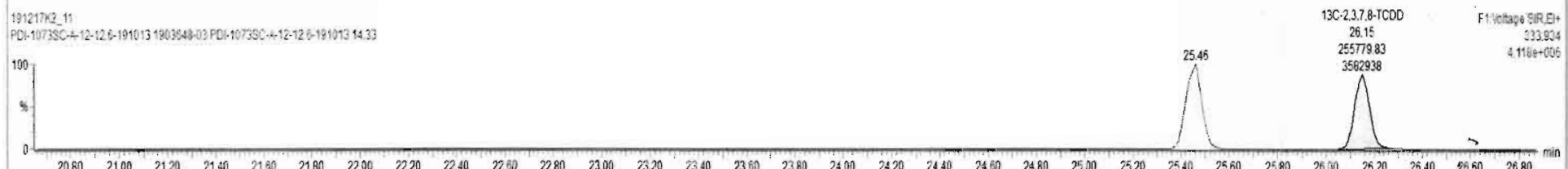
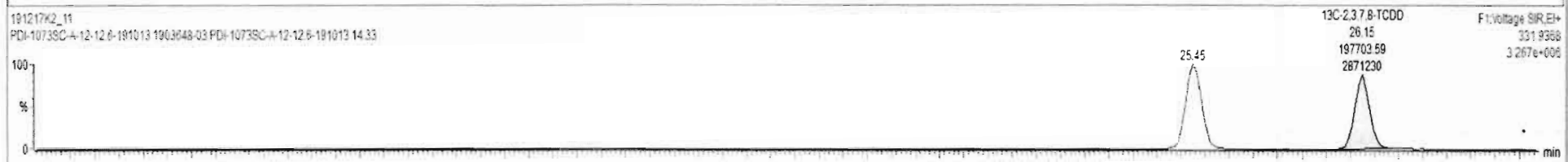
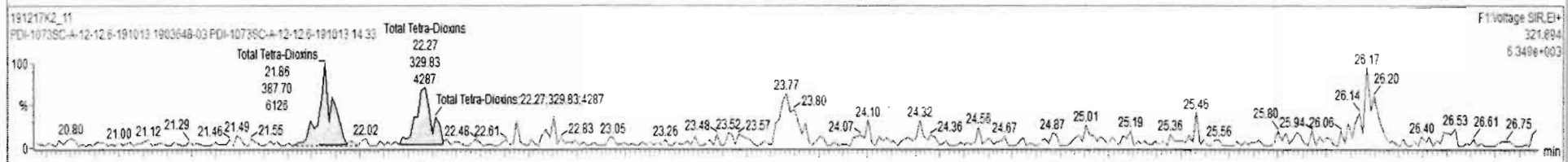
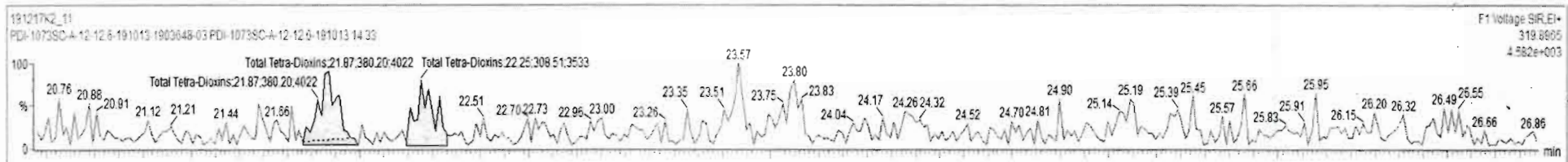
13C-2,3,7,8-TCDD



191217K2_11 - 1903648-03 PDI-1073SC-A-12-12-6-191013 14.33 - PDI-1073SC-A-12-12-6-191013

#	Name	Resp	RA	n/y	RSF	wIvol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	2.13e5	0.42	NO	0.5390	10.006	39.11	39.15	1.145	1.148	NO	143.1	71.6	1.07	
34	13C-OCDF	4.58e5	0.89	NO	0.5925	10.006	41.97	42.00	1.229	1.229	NO	279.4	89.9	0.815	
35	37Cl-2,3,7,8-TCDD	1.90e5			1.0895	10.006	26.17	26.17	1.028	1.028	NO	63.35	79.2	0.8834	
36	13C-1,2,3,4-TCDD	5.61e5	0.80	NO	1.0000	10.006	25.45	25.45	1.000	1.000	NO	199.9	100	0.418	
37	37Cl-1,2,3,4-TCDF	6.45e5	0.74	NO	1.0000	10.006	23.55	23.57	1.000	1.000	NO	199.9	100	0.625	
38	13C-1,2,3,4,6,9-HxCDF	5.53e5	0.54	NO	1.0000	10.006	34.16	34.16	1.000	1.000	NO	199.9	100	0.784	
39	Total Tetra-Dioxins				0.8249	10.006	24.62		0.696		NO	0.0000		0.0970	0.6952
40	Total Penta-Dioxins				0.9046	10.006	29.96		0.800		NO			0.0497	
41	Total Hexa-Dioxins				0.9675	10.006	33.63		0.800		NO	1.534		0.202	1.534
42	Total Hepta-Dioxins				1.0375	10.006	38.80		0.800		NO	2.049		0.236	2.011
43	Total Tetra-Furans				0.9376	10.006	23.61		0.800		NO	1.015		0.128	1.015
44	1st Func. Penta-Furans				0.9762	10.006	27.04		0.800		NO			0.0242	
45	Total Penta-Furans				0.9762	10.006	29.27		0.800		NO	0.0000		0.0368	0.1932

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	24.62	21.87	3.602e2	3.677e2	0.770	0.96	YES	0.32701	0.00000
2	Total Tetra-Dioxins	24.62	22.25	3.085e2	3.298e2	0.770	0.94	YES	0.27620	0.00000



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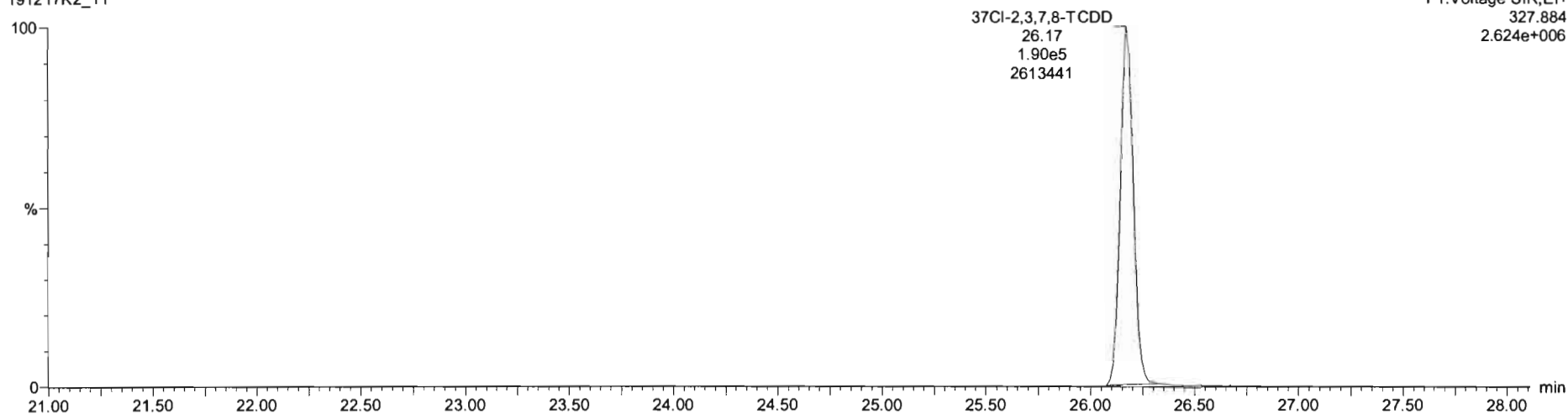
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013

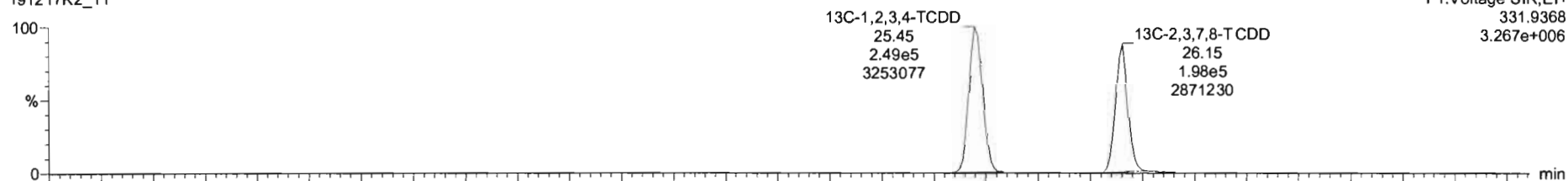
37Cl-2,3,7,8-TCDD

191217K2_11

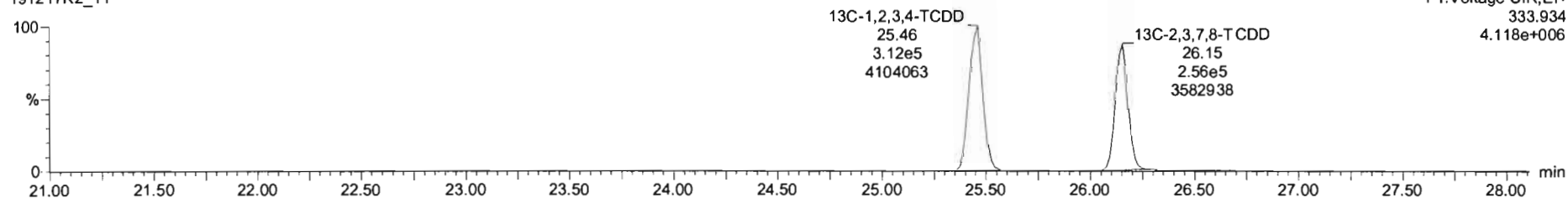


13C-1,2,3,4-TCDD

191217K2_11



191217K2_11



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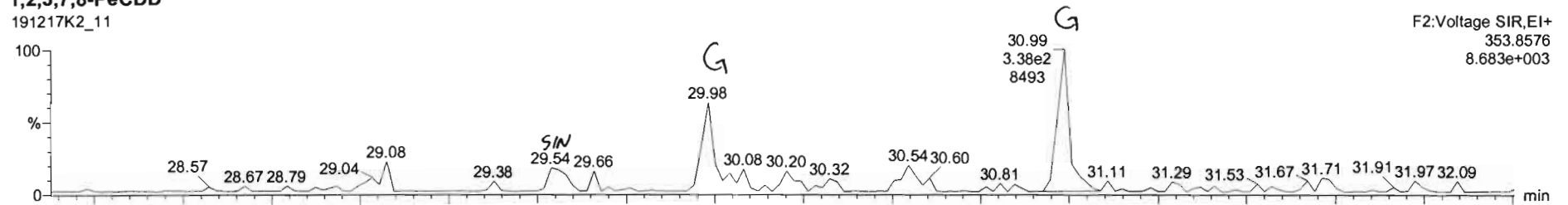
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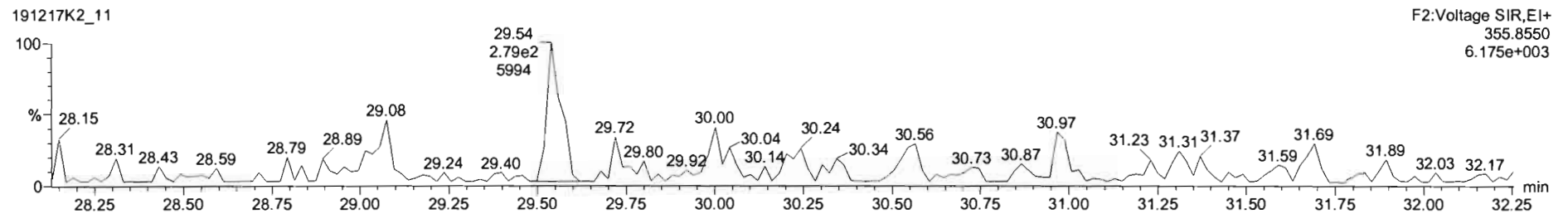
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1,2,3,7,8-PeCDD

191217K2_11

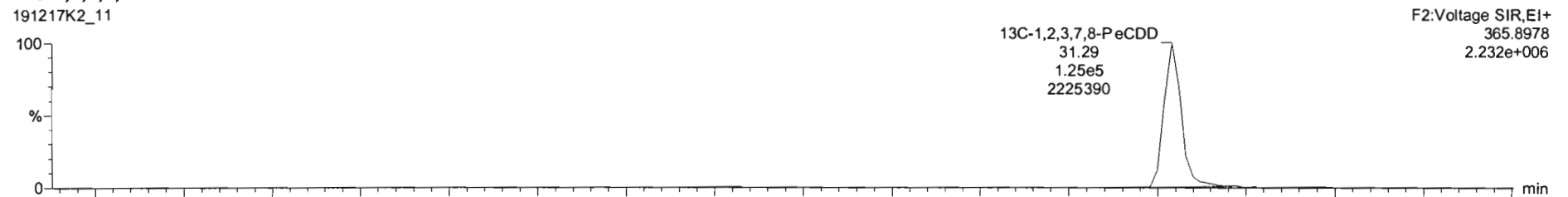


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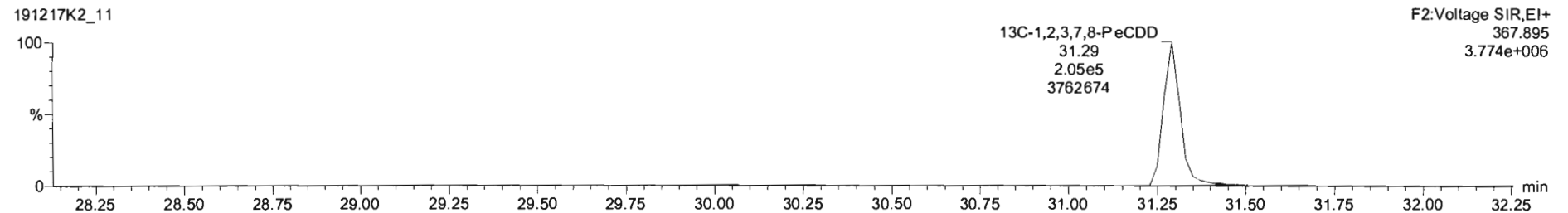


13C-1,2,3,7,8-PeCDD

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191217K2_11



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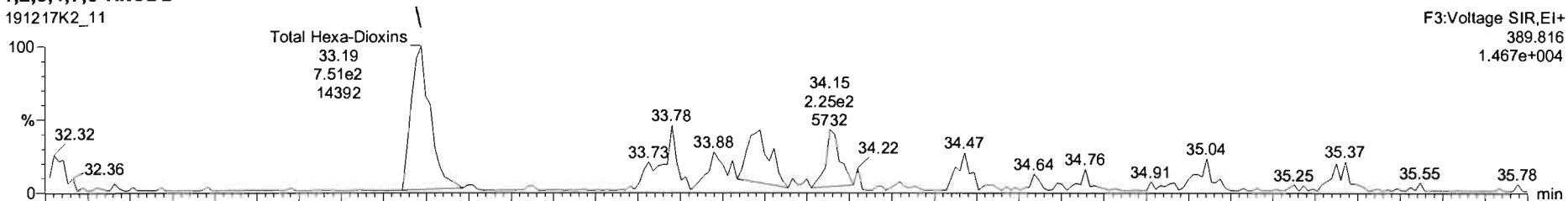
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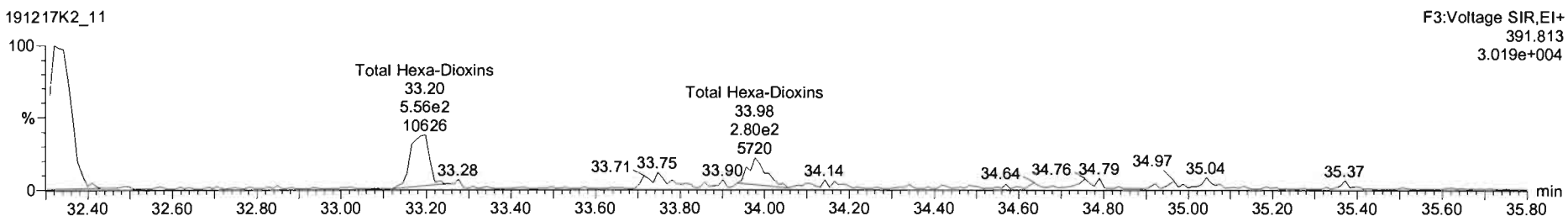
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1,2,3,4,7,8-HxCDD

191217K2_11

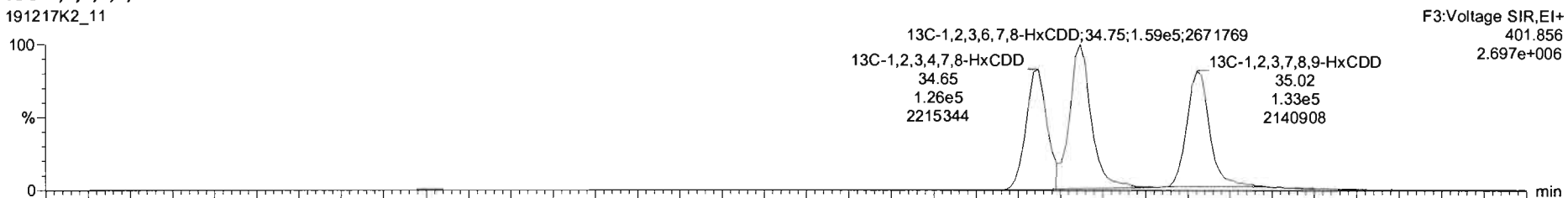


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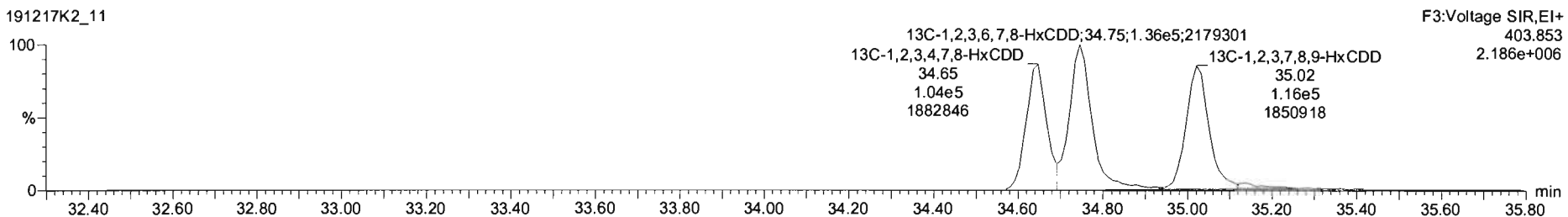


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191217K2_11



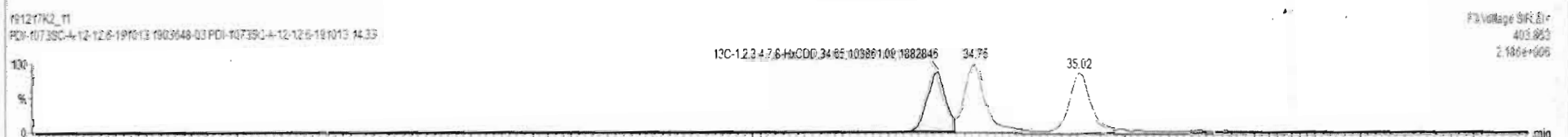
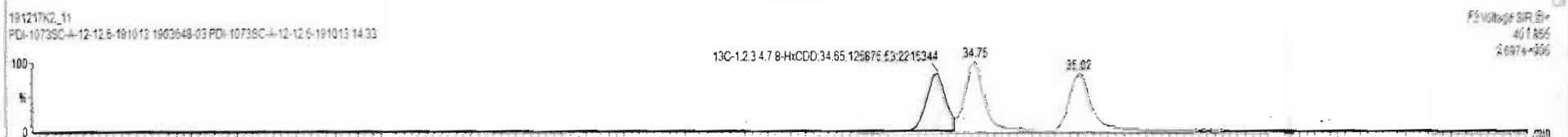
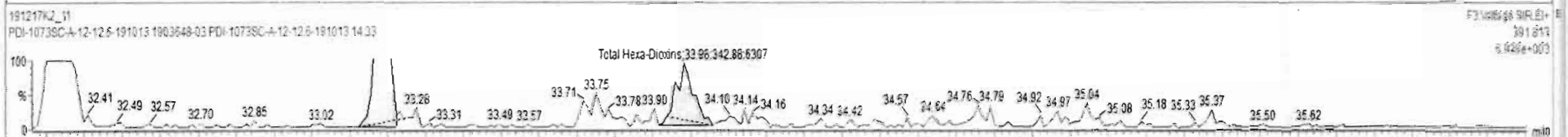
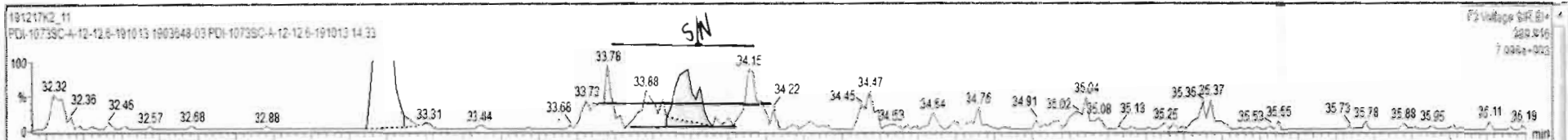
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191217K2_11 - 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33 - PDI-1073SC-A-12-12.6-191013

#	Name	Resp	RA	nly	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fac	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8-HpCDF	2.13e5	0.42	NO	0.5390	10.006	39.11	39.15	1.145	1.146	NO	143.1	71.6	1.07	
34	13C-OCDF	4.58e5	0.89	NO	0.5925	10.006	41.97	42.00	1.229	1.229	NO	279.4	69.9	0.515	
35	37Cl-2,3,7,8-TCDD	1.90e5			1.0695	10.006	26.17	26.17	1.028	1.028	NO	63.75	79.2	0.0834	
36	13C-1,2,3,4-TCDD	5.61e5	0.80	NO	1.0000	10.006	25.45	25.45	1.000	1.000	NO	199.9	100	0.418	
37	13C-1,2,3,4-TCDF	8.45e5	0.74	NO	1.0000	10.006	23.55	23.57	1.000	1.000	NO	199.9	100	0.625	
38	13C-1,2,3,4,6,8-HxCDF	5.53e5	0.54	NO	1.0000	10.006	34.16	34.16	1.000	1.000	NO	199.9	100	0.704	
39	Total Tetra-Dioxins				0.9249	10.006	24.42		0.000		NO	0.0000		0.0970	0.6052
40	Total Penta-Dioxins				0.9048	10.006	29.96		0.000		NO			0.0457	
41	Total Hexa-Dioxins				0.9675	10.006	33.63		0.000		NO	1.630		0.202	1.630
42	Total Hepta-Dioxins				1.0375	10.006	38.80		0.000		NO	2.049		0.238	2.011
43	Total Tetra-Furans				0.9376	10.006	23.61		0.000		NO	1.015		0.126	1.015
44	1st Func. Penta-Furans				0.9762	10.006	27.04		0.000		NO			0.0242	
45	Total Penta-Furans				0.9762	10.006	29.27		0.000		NO	0.0000		0.0396	0.1632

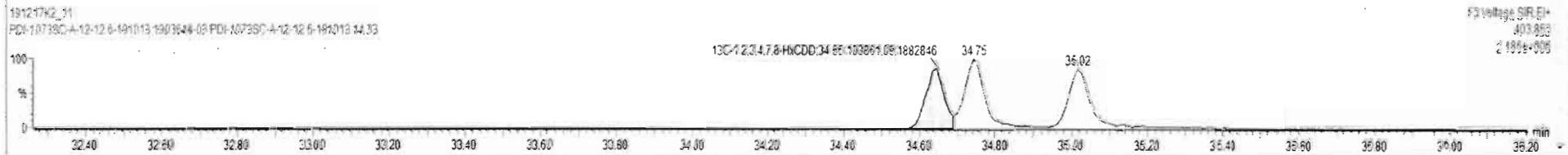
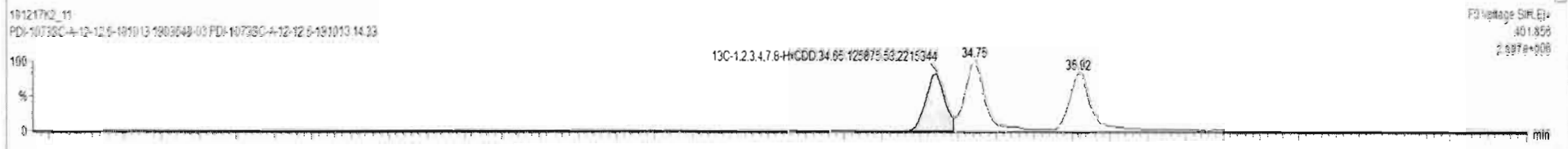
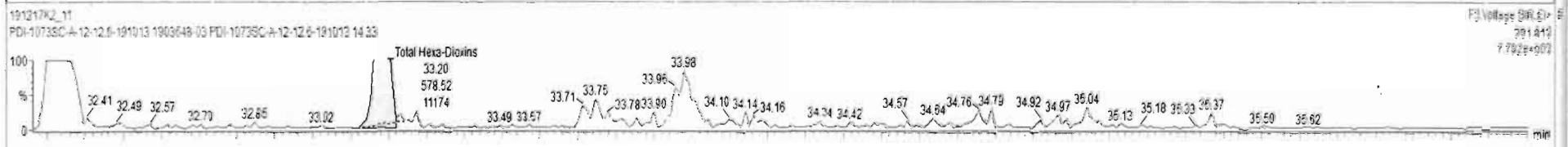
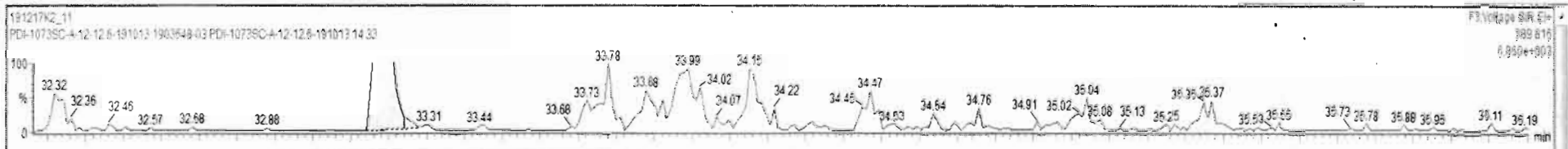
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	33.19	7.262e2	5.785e2	1.240	1.26	NO	1.0452	1.0452
2	41 Total Hexa-Dioxins	33.63	33.99	3.872e2	3.429e2	1.240	1.13	NO	0.58496	0.58486



191217K2_11 - 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33 - PDI-1073SC-A-12-12.6-191013

#	Name	Resp	RA	nly	RRF	wt/vol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	2.13e5	0.42	NO	0.5390	10.000	39.11	38.15	1.145	1.148	NO	143.1	71.6	1.07	
34	13C-OCDF	4.50e5	0.89	NO	0.5925	10.000	41.97	42.00	1.229	1.229	NO	279.4	89.9	0.810	
35	37Cl-2,3,7,8-TCDD	1.90e5			1.0696	10.000	26.17	26.17	1.028	1.028	NO	83.35	79.2	0.0834	
36	13C-1,2,3,4-TCDD	5.61e5	0.80	NO	1.0000	10.000	25.45	25.45	1.000	1.000	NO	199.9	100	0.418	
37	13C-1,2,3,4-TCDF	8.45e5	0.74	NO	1.0000	10.000	23.55	23.57	1.000	1.000	NO	199.9	100	0.625	
38	13C-1,2,3,4,6,9-HxCDF	5.53e5	0.54	NO	1.0000	10.000	34.16	34.16	1.000	1.000	NO	199.9	100	0.704	
39	Total Tetra-Dioxins				0.9249	10.000	24.62		0.000		NO	0.0000		0.0970	0.6052
40	Total Penta-Dioxins				0.9048	10.000	29.96		0.000		NO			0.0497	
41	Total Hexa-Dioxins				0.9675	10.000	33.63		0.000		NO	1.045		0.202	1.045
42	Total Hepta-Dioxins				1.0375	10.000	36.80		0.000		NO	2.049		0.238	2.811
43	Total Tetra-Furans				0.9376	10.000	23.81		0.000		NO	1.015		0.128	1.015
44	1st Func. Penta-Furans				0.9762	10.000	27.04		0.000		NO			0.9242	
45	Total Penta-Furans				0.9762	10.000	29.27		0.000		NO	0.0000		0.0398	0.1932

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	33.19	7.262e2	5.785e2	1.240	1.26	NO	1.0452	1.0452



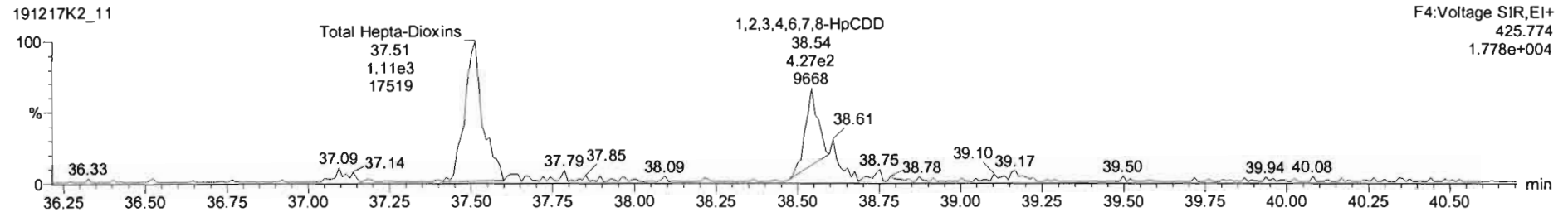
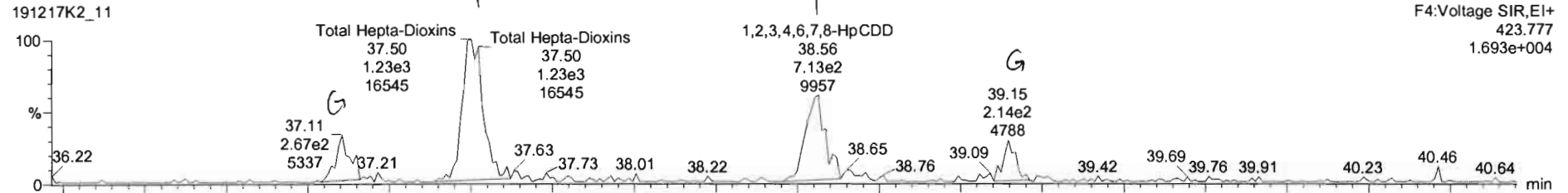
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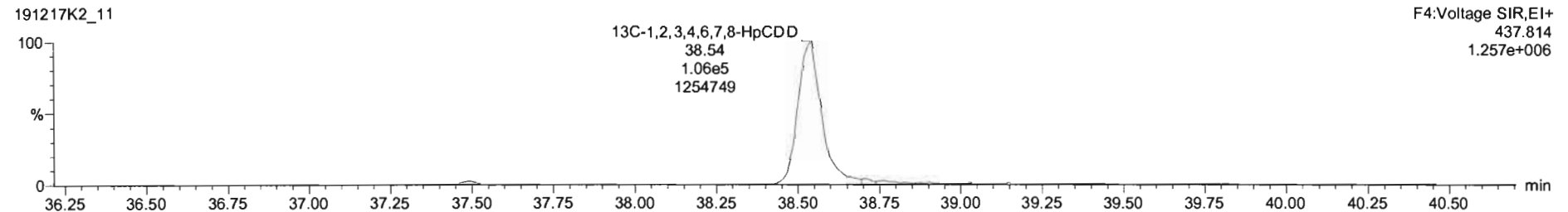
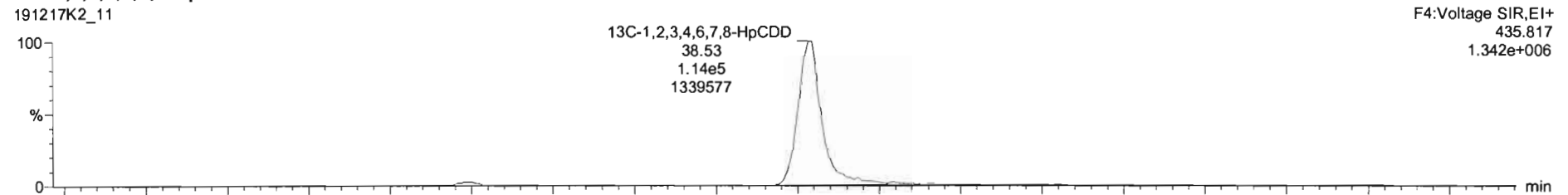
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Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013

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



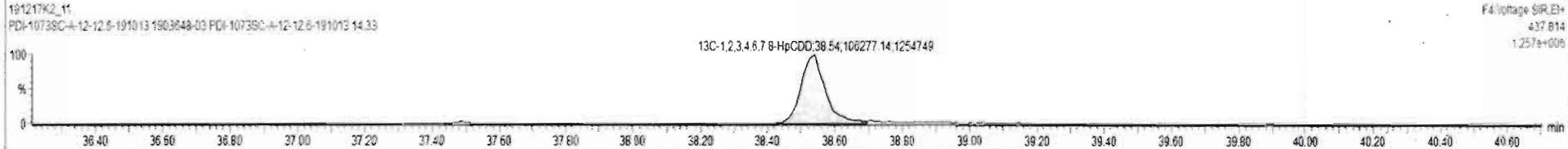
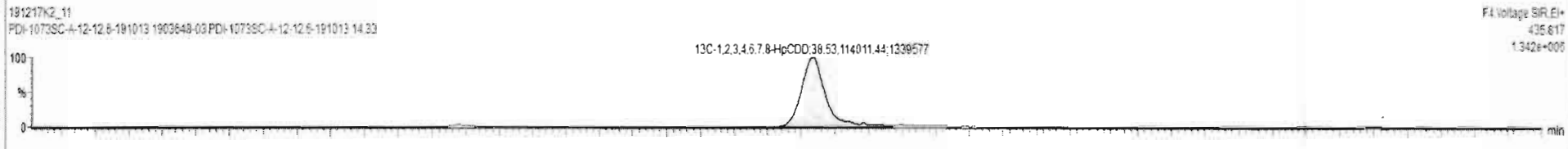
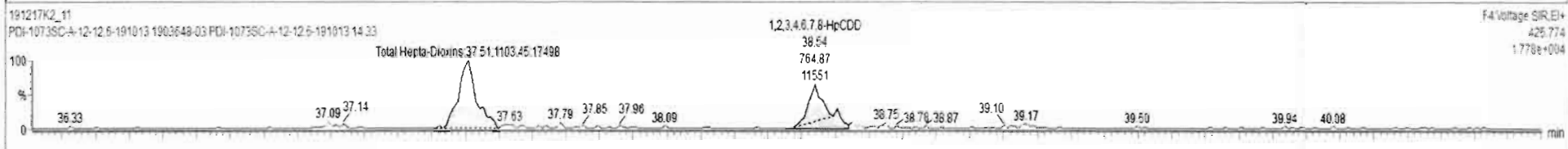
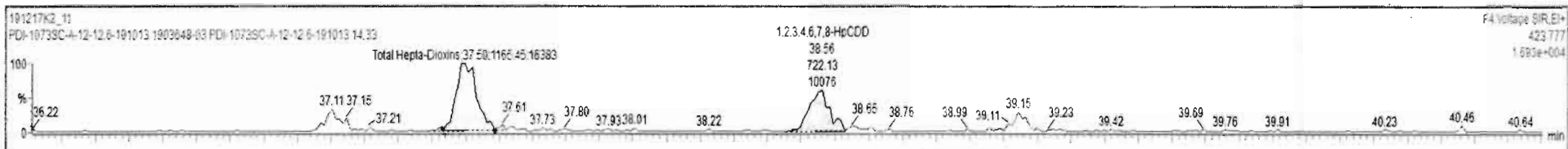
13C-1,2,3,4,6,7,8-HpCDD



191217K2_11 - 1903648-03 PDI-1073SC-A-12-12-6-191013 14.33 - PDI-1073SC-A-12-12-6-191013

#	Name	Resp	RA	n/y	RRF	wVol	Pred RT	RT	Pred R	RRT	RRT Err	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	2.13e5	0.42	NO	0.5390	10.006	39.11	39.15	1.145	1.148	NO	143.1	71.2	1.07	
34	13C-OCDF	4.58e5	0.89	NO	0.5925	10.006	41.97	42.00	1.229	1.229	NO	279.4	69.9	0.815	
35	37C1-2,3,7,8-TCDD	1.90e5			1.0695	10.006	26.17	26.17	1.026	1.028	NO	63.35	79.2	0.0034	
36	13C-1,2,3,4-TCDD	5.61e5	0.80	NO	1.0000	10.006	25.45	25.45	1.000	1.000	NO	199.9	100	0.418	
37	13C-1,2,3,4-TCDF	8.45e5	0.74	NO	1.0000	10.006	23.55	23.57	1.000	1.000	NO	199.9	100	0.625	
38	13C-1,2,3,4,8,9-HxCDF	5.53e5	0.54	NO	1.0000	10.006	34.16	34.16	1.000	1.000	NO	199.9	100	0.704	
39	Total Tetra-Dioxins				0.9249	10.006	24.62		0.000		NO	0.0000		0.0970	0.6052
40	Total Penta-Dioxins				0.9046	10.006	29.96		0.000		NO			0.0497	
41	Total Hexa-Dioxins				0.9675	10.006	33.63		0.000		NO	1.045		0.202	1.045
42	Total Hepta-Dioxins				1.0375	10.006	38.80		0.000		NO	3.285		0.236	3.285
43	Total Tetra-Furans				0.9376	10.006	23.61		0.000		NO	1.815		0.128	1.815
44	1st Func. Penta-Furans				0.9762	10.006	27.04		0.000		NO			0.0242	
45	Total Penta-Furans				0.9762	10.006	29.27		0.000		NO	0.0000		0.0398	0.1932

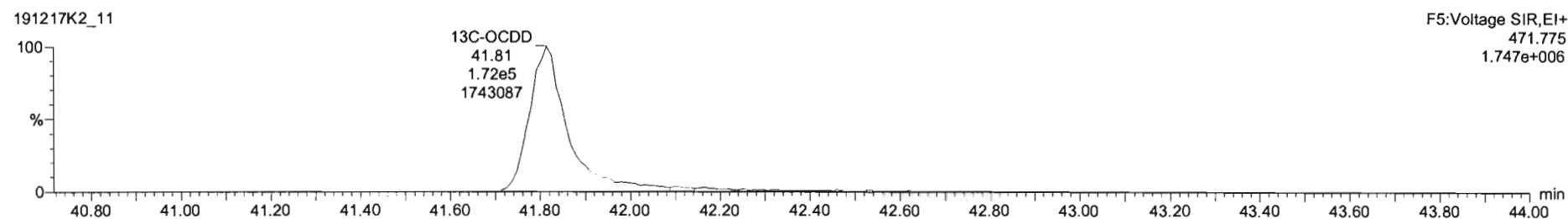
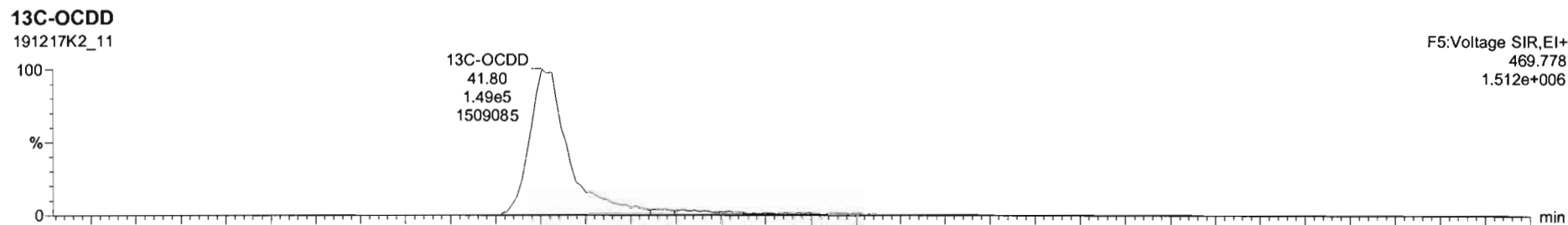
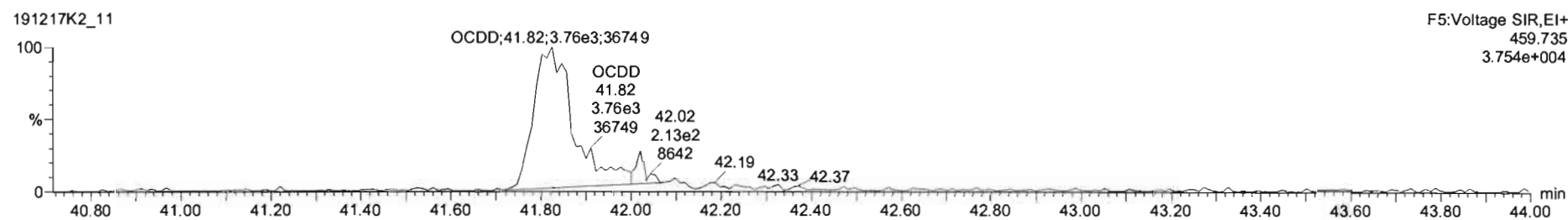
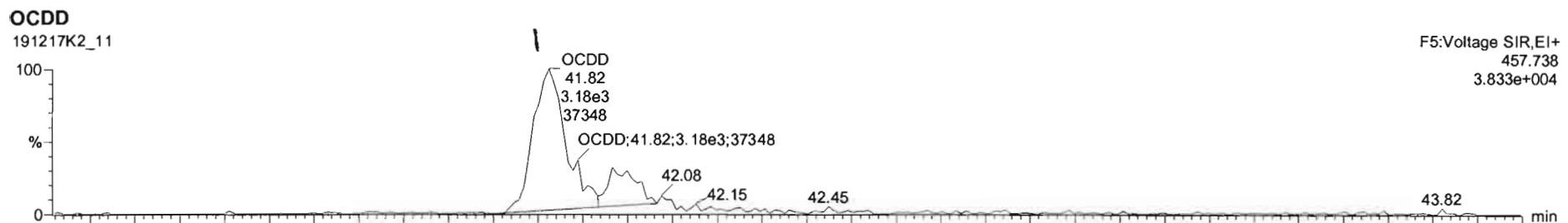
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDD	38.54	38.58	7.221e2	7.649e2	1.040	0.94	NO	1.3005	1.3005
2	Total Hepta-Dioxins	38.80	37.50	1.165e2	1.103e2	1.040	1.06	NO	1.9843	1.9843



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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
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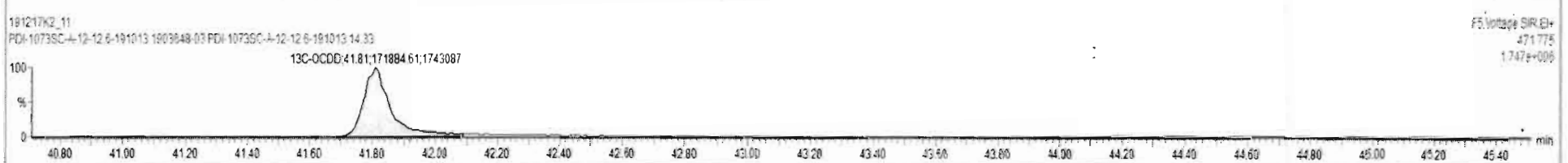
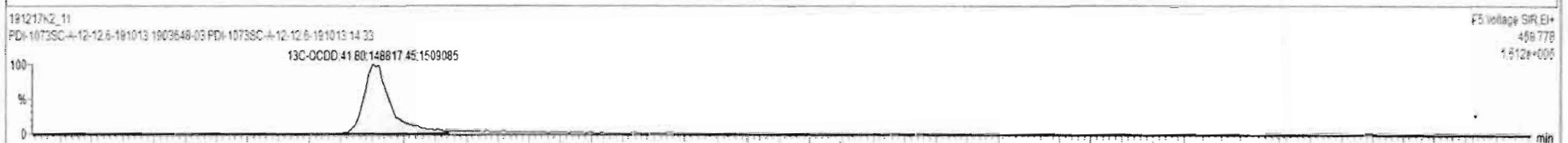
Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013



191217K2_11 - 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33 - PDI-1073SC-A-12-12.6-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R.L.	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
4	1,2,3,6,7,8-HxCDD				0.9675	10.006	34.75		1.000		YES			0.177	
5	1,2,3,7,8,9-HxCDD				0.9778	10.006	35.06		1.001		YES			0.216	
6	1,2,3,4,6,7,8-HpCDD	1.49e3	0.94	NO	1.0375	10.006	38.54	38.56	1.000	1.001	NO	1.300		0.236	1.300
7	OCDD	6.52e3	0.93	NO	0.9718	10.006	41.88	41.82	1.000	1.001	NO	6.366		0.742	8.368
8	2,3,7,8-TCDF	6.34e2	0.87	NO	0.9376	10.006	25.18	25.17	1.001	1.001	NO	0.2012		0.126	0.2012
9	1,2,3,7,8-PeCDF				0.9762	10.006	30.00		1.001		YES			0.0772	
10	2,3,4,7,8-PeCDF				1.0049	10.006	31.00		1.001		YES			0.0786	
11	1,2,3,4,7,8-HxCDF				1.2434	10.006	33.76		1.000		YES			0.0814	
12	1,2,3,6,7,8-HxCDF				1.0850	10.006	33.91		1.000		YES			0.0794	
13	2,3,4,6,7,8-HxCDF				1.1806	10.006	34.51		1.001		YES			0.0849	
14	1,2,3,7,8,9-HxCDF				1.0728	10.006	35.36		1.000		YES			0.120	
15	1,2,3,4,6,7,8-HpCDF				1.1300	10.006	37.14		1.001		YES			0.0746	
16	1,2,3,4,7,8,9-HpCDF				1.2609	10.006	39.15		1.000		YES			0.0863	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 ^o Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



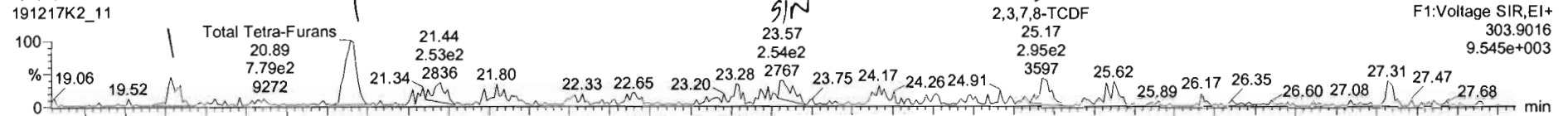
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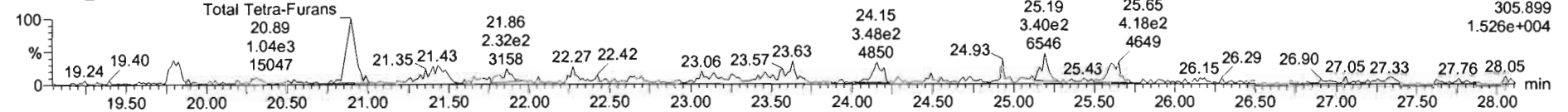
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Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013

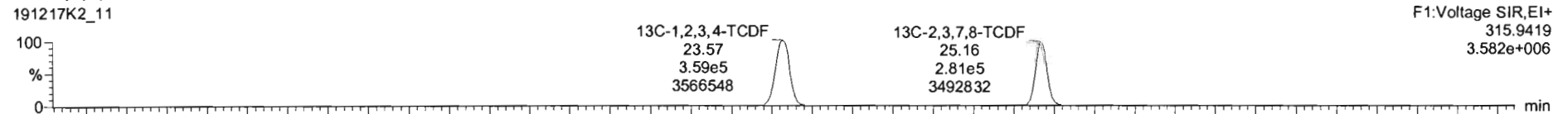
2,3,7,8-TCDF



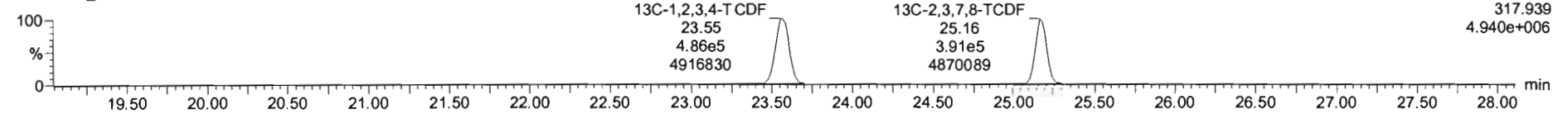
191217K2_11



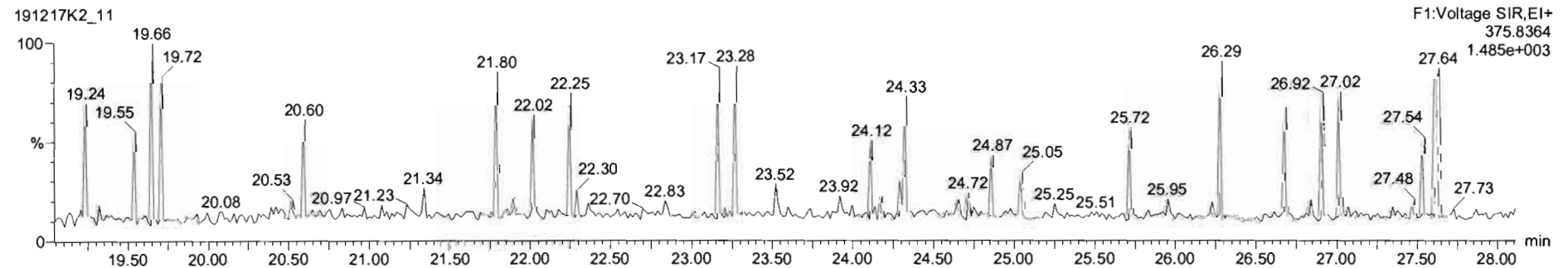
13C-2,3,7,8-TCDF



191217K2_11



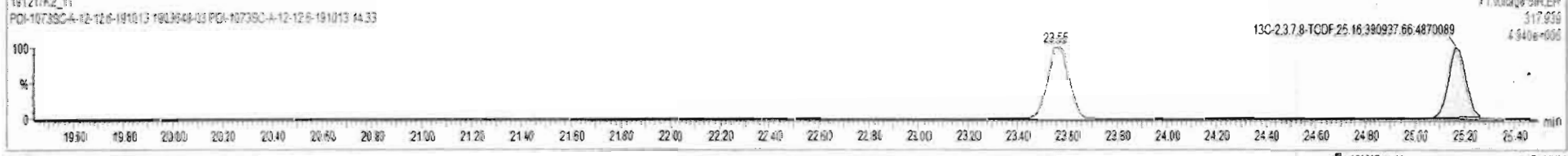
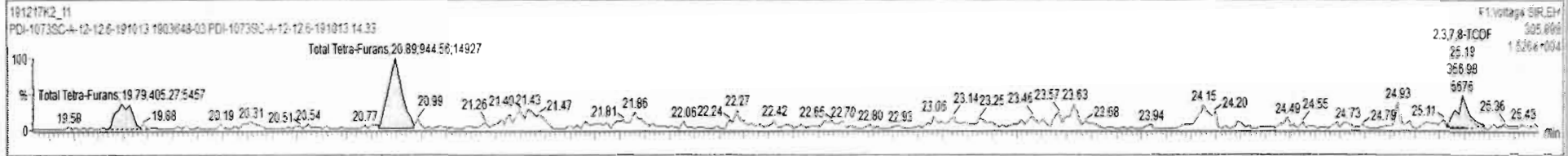
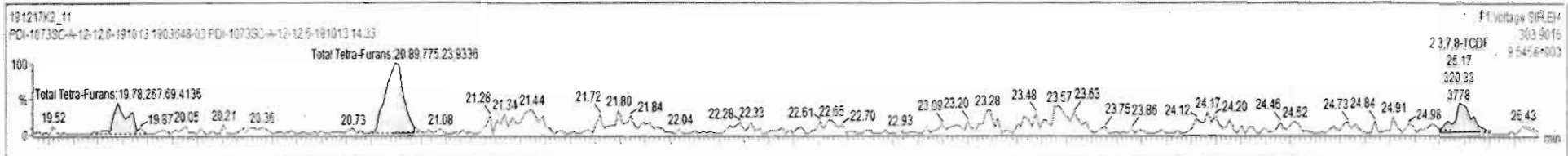
DPE1



191217K2_11 - 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33 - PDI-1073SC-A-12-12.6-191013

#	Name	Resp	RA	n/y	RRF	wVol	Pred RT	RT	Pred R	RRT	RRT F01	Conc	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.06e5	0.42	NO	0.7542	10.006	37.06	37.10	1.005	1.006	NO	148.5	73.3	0.764	
33	13C-1,2,3,4,7,8,9-HpCDF	2.13e5	0.42	NO	0.5390	10.006	36.11	39.15	1.145	1.146	NO	143.1	71.6	1.07	
34	13C-OCDF	4.58e5	0.89	NO	0.5925	10.006	41.97	42.00	1.229	1.229	NO	279.4	66.9	0.815	
35	37Cl-2,3,7,8-TCDF	1.90e5			1.0696	10.006	26.17	26.17	1.026	1.026	NO	63.26	79.2	0.0634	
36	13C-1,2,3,4-TCDF	5.61e5	0.80	NO	1.0000	10.006	25.45	25.45	1.000	1.000	NO	199.9	100	0.418	
37	13C-1,2,3,4-TCDF	8.45e5	0.74	NO	1.0000	10.006	23.55	23.57	1.000	1.000	NO	199.9	100	0.625	
38	13C-1,2,3,4,6,9-HxCDF	5.53e5	0.54	NO	1.0000	10.006	34.16	34.16	1.000	1.000	NO	199.9	100	0.704	
39	Total Tetra-Dioxins				0.9249	10.006	24.82		0.000		NO	0.0000		0.0970	0.6052
40	Total Penta-Dioxins				0.9046	10.006	29.96		0.000		NO			0.0497	
41	Total Hexa-Dioxins				0.9675	10.006	33.83		0.000		NO	1.045		0.202	1.045
42	Total Hepta-Dioxins				1.0375	10.006	38.80		0.000		NO	3.285		0.236	3.285
43	Total Tetra-Furans				0.9376	10.006	23.61		0.000		NO	0.7589		0.128	0.9593
44	1st Func. Penta-Furans				0.9762	10.006	27.04		0.000		NO			0.0242	

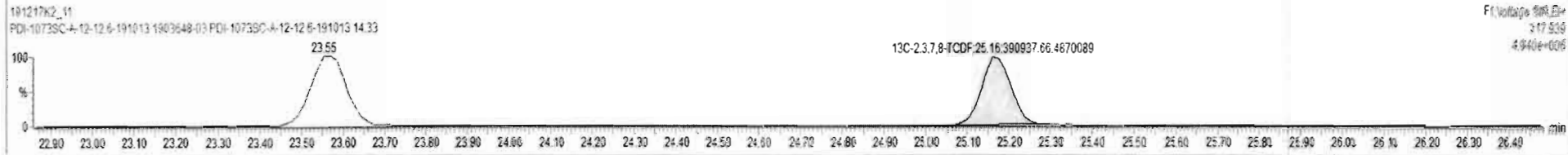
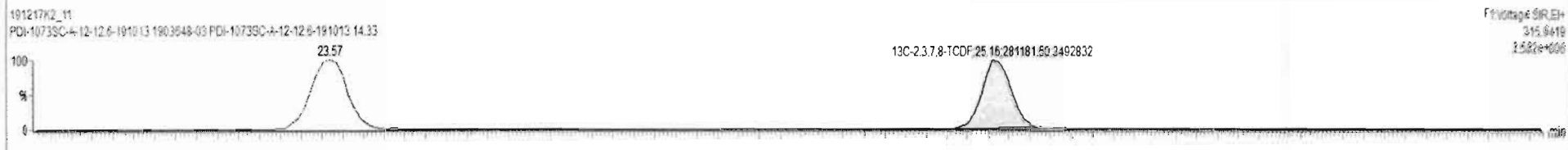
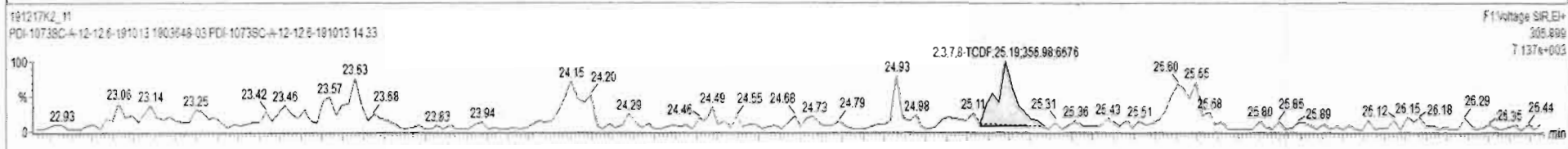
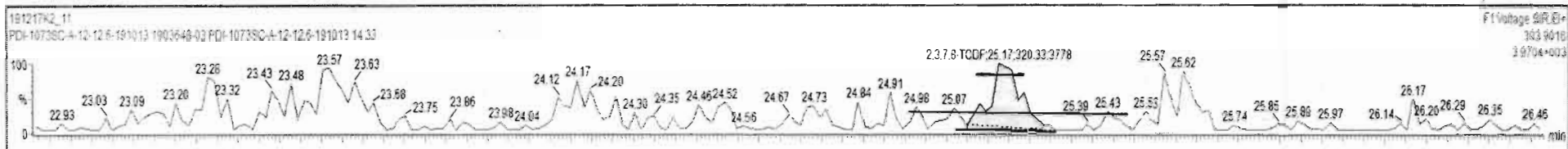
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.78	2.677e2	4.053e2	0.770	0.66	NO	0.21345	0.21345
2	43 Total Tetra-Furans	23.61	20.98	7.752e2	9.446e2	0.770	0.82	NO	0.54548	0.54548
3	8 2,3,7,8-TCDF	25.18	25.17	3.283e2	3.570e2	0.770	0.90	YES	0.20041	0.00000



191217K2_11 - 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33 - PDI-1073SC-A-12-12.6-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred.R.	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.05e5	0.42	NO	0.7542	10.006	37.08	37.10	1.005	1.006	NO	146.5	73.3	0.764	
33	13C-1,2,3,4,7,8,9-HpCDF	2.13e5	0.42	NO	0.5390	10.006	39.11	39.15	1.145	1.146	NO	143.1	71.6	1.07	
34	13C-OCDF	4.58e5	0.86	NO	0.5925	10.006	41.97	42.00	1.229	1.229	NO	279.4	89.9	0.815	
35	37Cl-2,3,7,8-TCDF	1.90e5			1.0695	10.006	26.17	26.17	1.028	1.028	NO	63.35	79.2	0.8634	
36	13C-1,2,3,4-TCDF	5.61e5	0.80	NO	1.0000	10.006	25.45	25.45	1.000	1.000	NO	199.9	100	0.418	
37	13C-1,2,3,4-TCDF	8.45e5	0.74	NO	1.0000	10.006	23.55	23.57	1.000	1.000	NO	199.9	100	0.625	
38	13C-1,2,3,4,6,9-HxCDF	5.53e5	0.54	NO	1.0000	10.006	34.16	34.16	1.000	1.000	NO	199.9	100	0.704	
39	Total Tetra-Dioxins				0.9249	10.006	24.62		0.000		NO	0.0600		0.9970	0.6052
40	Total Penta-Dioxins				0.9046	10.006	25.96		0.000		NO				0.0497
41	Total Hexa-Dioxins				0.9675	10.006	33.63		0.000		NO	1.645		0.262	1.645
42	Total Hepta-Dioxins				1.0375	10.006	38.80		0.000		NO	3.285		0.236	3.285
43	Total Tetra-Furans				0.9376	10.006	23.61		0.000		NO	0.7792		0.128	0.9796
44	1st Func. Penta-Furans				0.9762	10.006	27.04		0.000		NO				0.0242

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	2,3,7,8-TCDF	25.18	25.17	3.203e2	3.570e2	0.770	0.96	YES	0.20041	0.00000
2	Total Tetra-Furans	23.61	19.78	3.028e2	4.341e2	0.770	0.70	NO	0.23373	0.23373
3	Total Tetra-Furans	23.61	20.89	7.752e2	9.446e2	0.770	0.82	NO	0.54548	0.54548



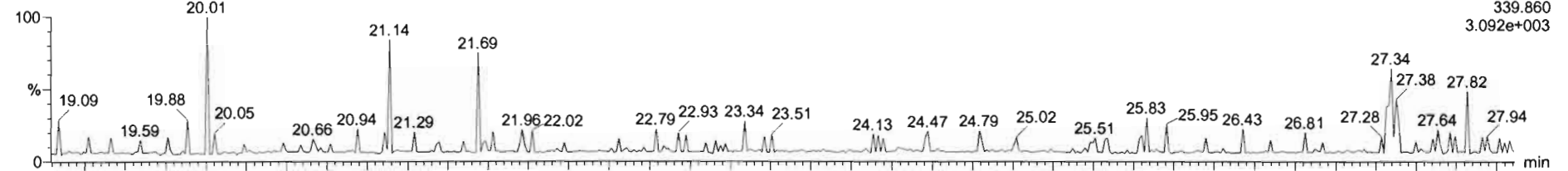
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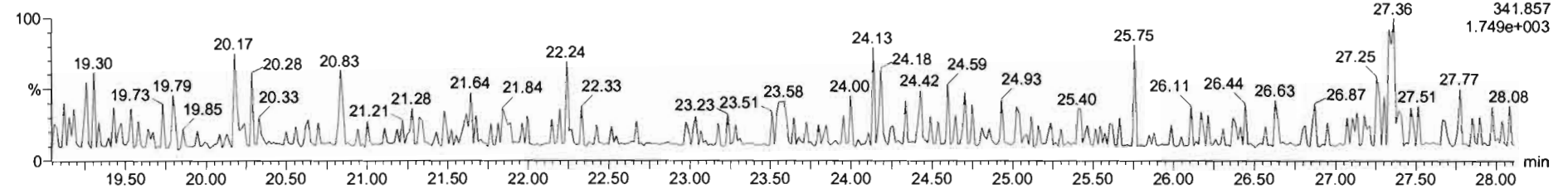
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1st Func. Penta-Furans

191217K2_11

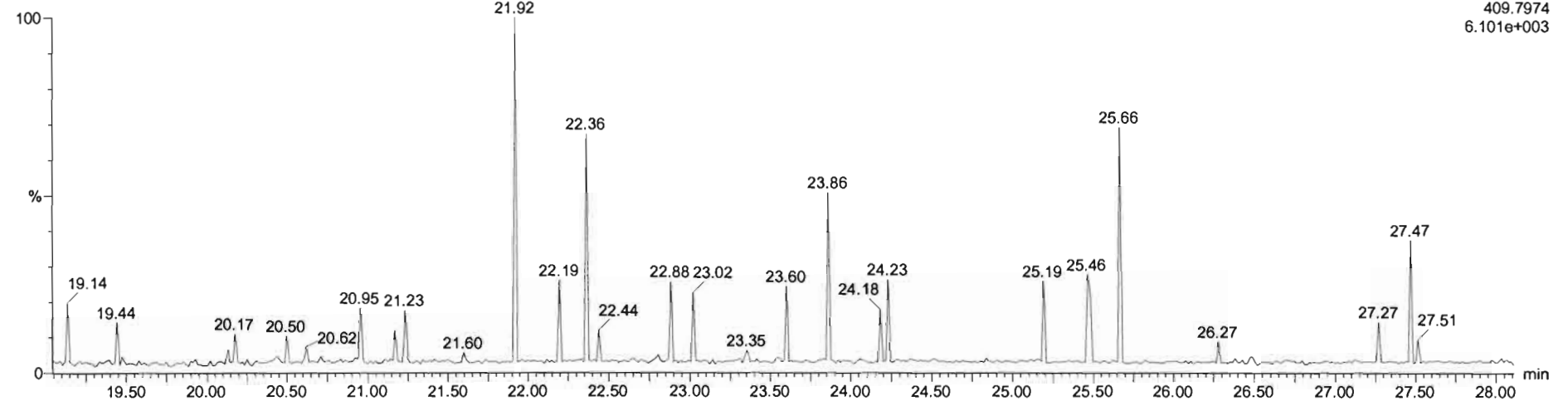


191217K2_11



DPE6

191217K2_11

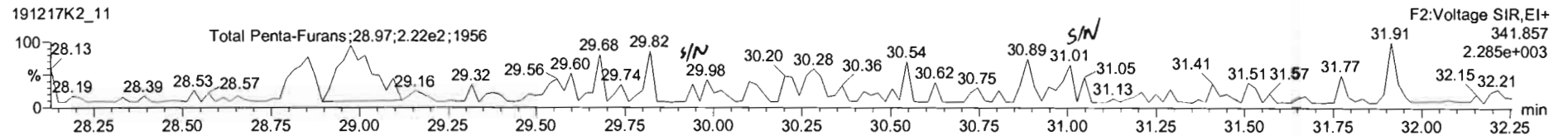
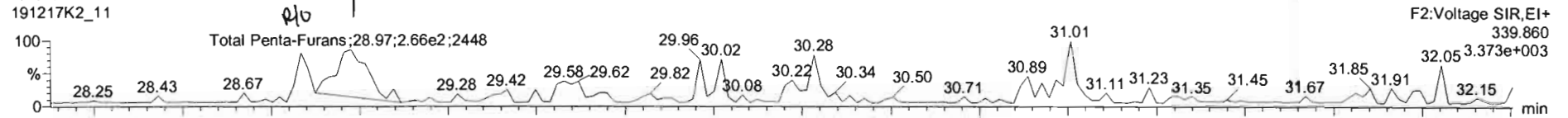


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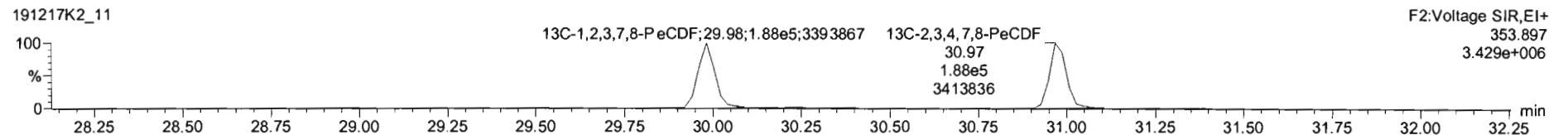
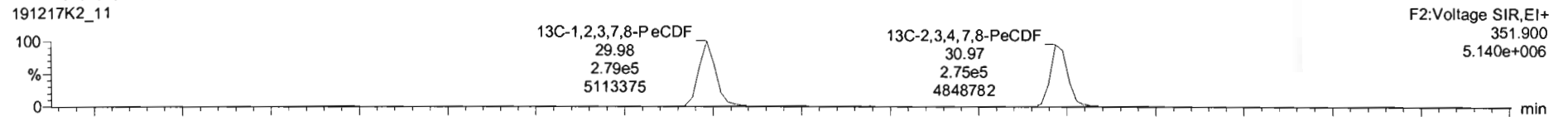
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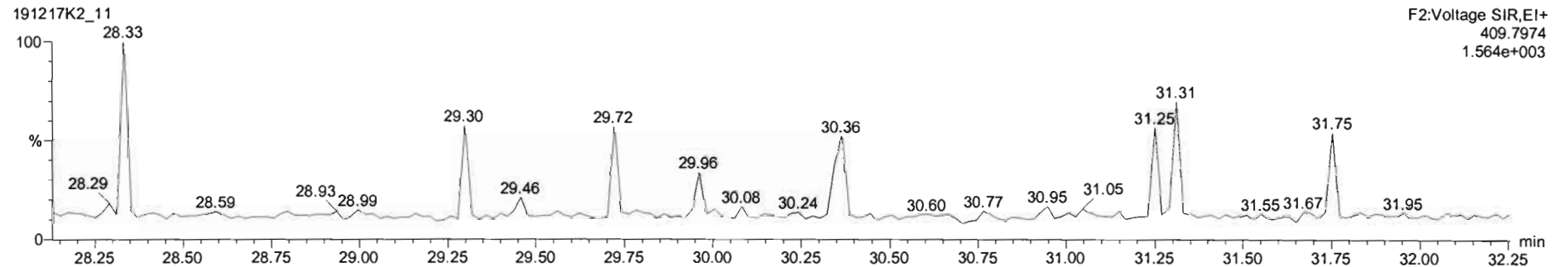
1,2,3,7,8-PeCDF



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



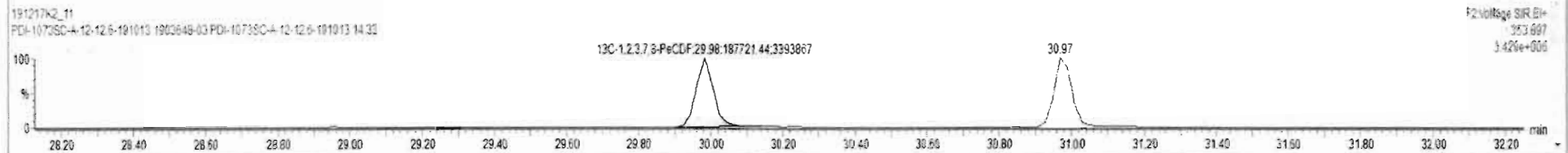
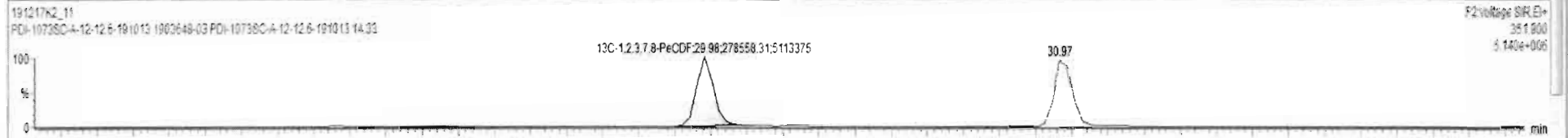
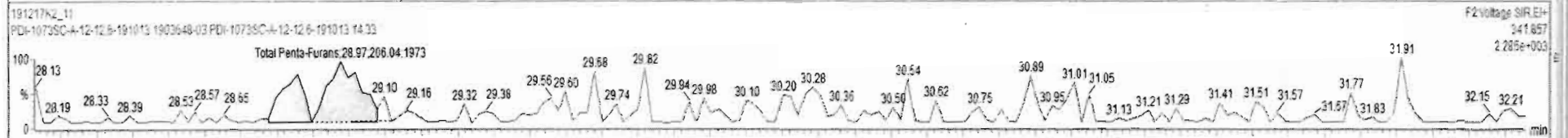
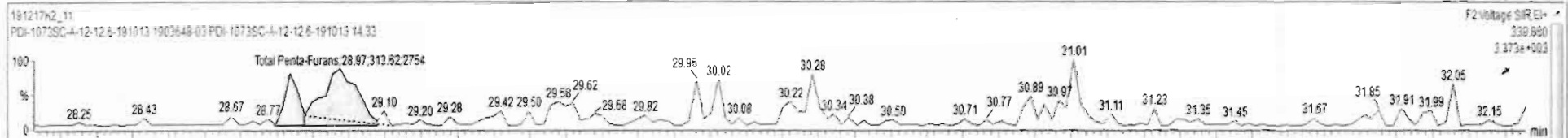
DPE2



191217K2_11 - 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33 - PDI-1073SC-A-12-12.6-191013

#	Name	Resp	RA	n/y	RF	wt/vol	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	44 1st Func Penta-Furans				0.9762	10.006	27.04		0.000		NO			0.0242	
45	45 Total Penta-Furans				0.9762	10.006	29.27		0.000		NO	0.2291	0.6791	0.3094	
46	46 Total Hexa-Furans				1.1806	10.006	33.56		0.000		NO			0.0503	
47	47 Total Hepta-Furans				1.1200	10.006	37.83		0.000		NO			0.0472	
48	48 PFK1														
49	49 PFK2														
50	50 PFK3														
51	51 PFK4														
52	52 PFK5														
53	53 DPE1														
54	54 DPE2														
55	55 DPE3														
56	56 DPE4														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	I* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.83	1.108e2	1.149e2	1.550	0.96	YES	0.060317	0.00006
2	45 Total Penta-Furans	29.27	28.97	3.136e2	2.080e2	1.550	1.52	NO	0.22607	0.22607



Custom Reporting: Select reports to generate

191217K2_11

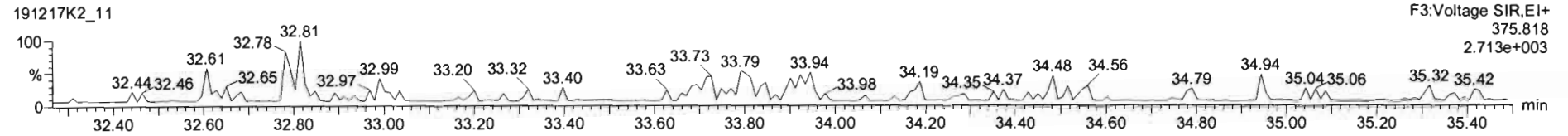
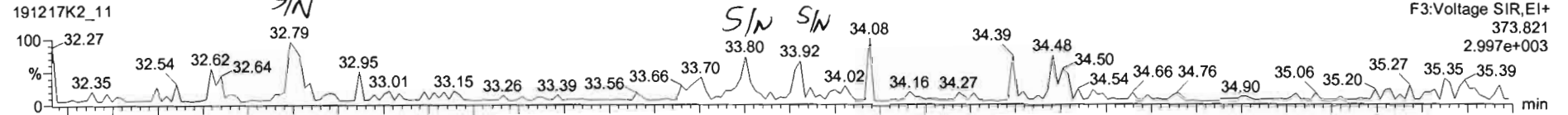
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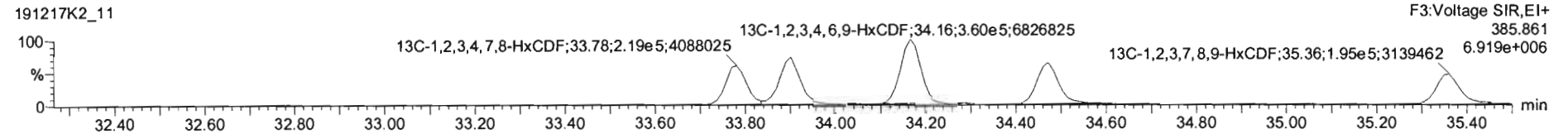
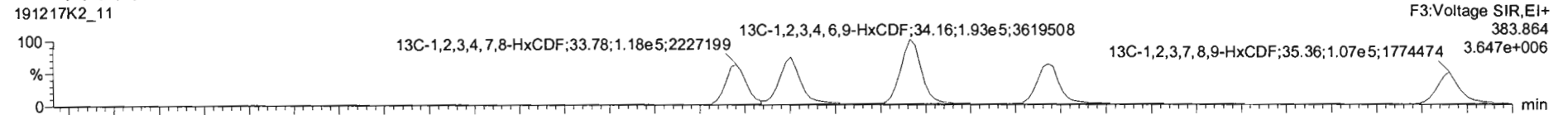
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

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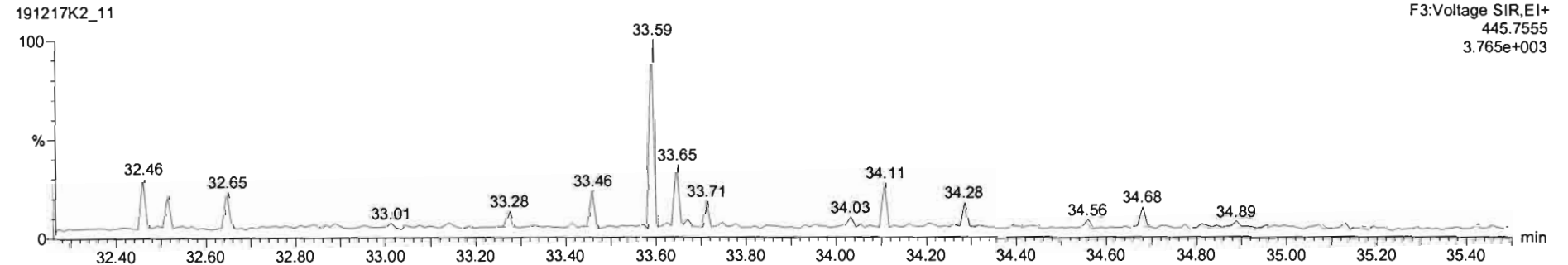
1,2,3,4,7,8-HxCDF



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



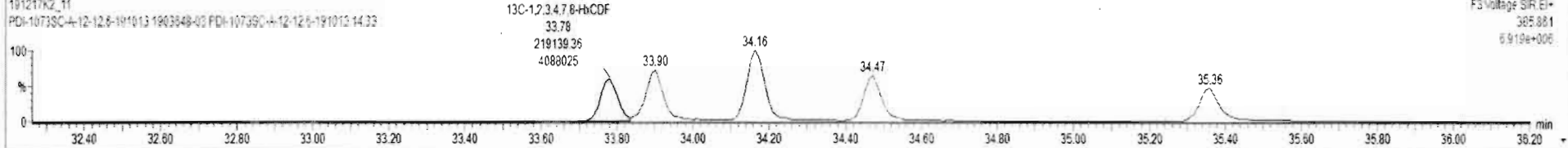
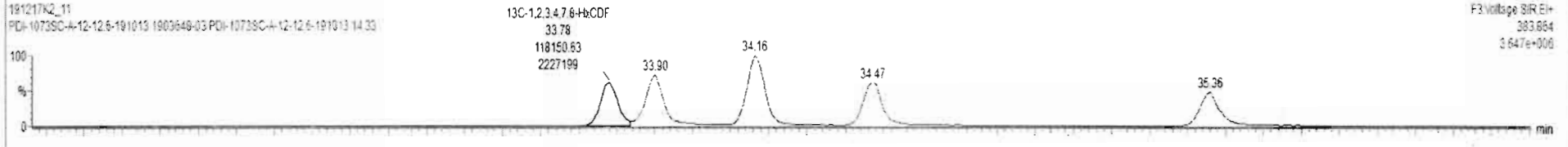
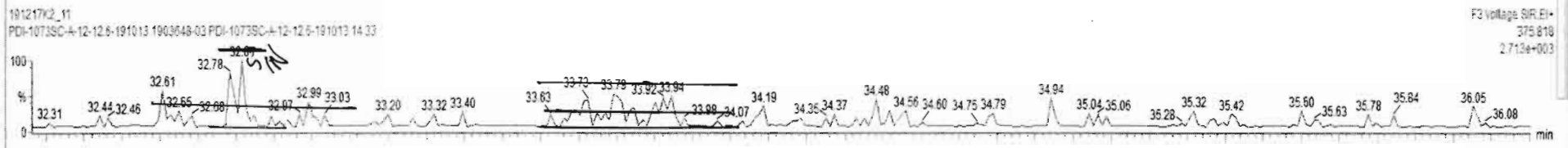
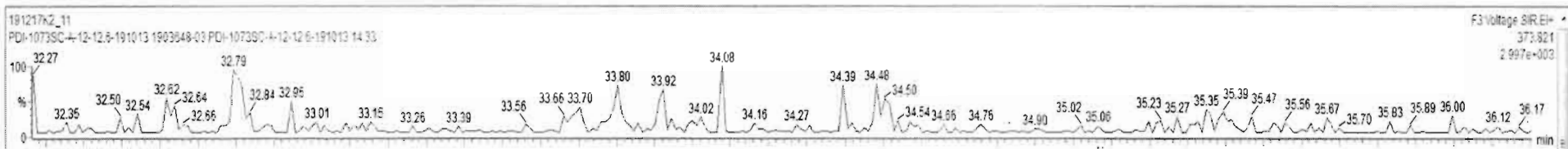
DPE3



191217K2_11 - 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33 - PDI-1073SC-A-12-12.6-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9762	10.006	27.04		0.000		NO			0.0242	
45	Total Penta-Furans				0.9762	10.006	26.27		0.000		NO	0.2291		0.0791	0.3064
46	Total Hexa-Furans				1.1896	10.006	33.56		0.000		NO			0.0503	
47	Total Hepta-Furans				1.1200	10.006	37.83		0.000		NO			0.0472	
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	PFK5														
53	DPE1														
54	DPE2														
55	DPE3														
56	DPE4														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1										

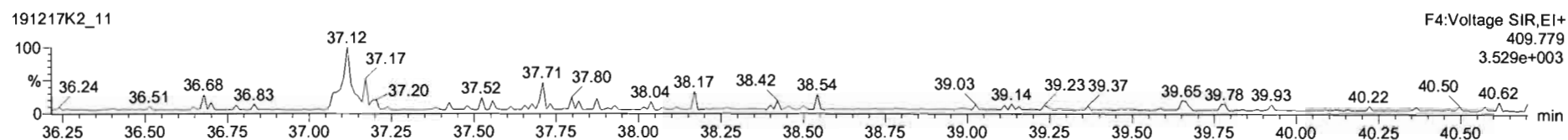
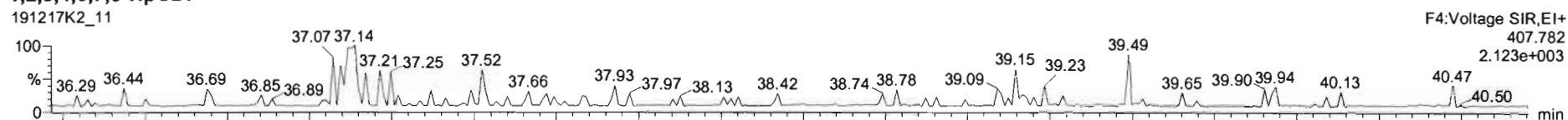


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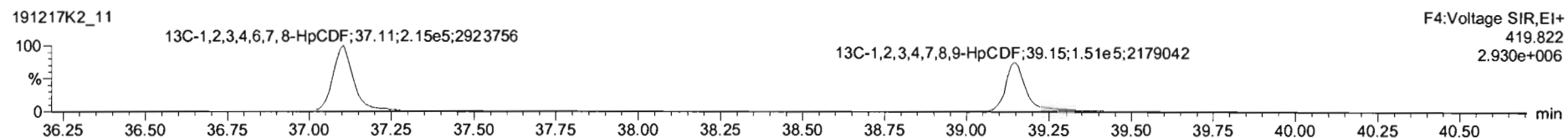
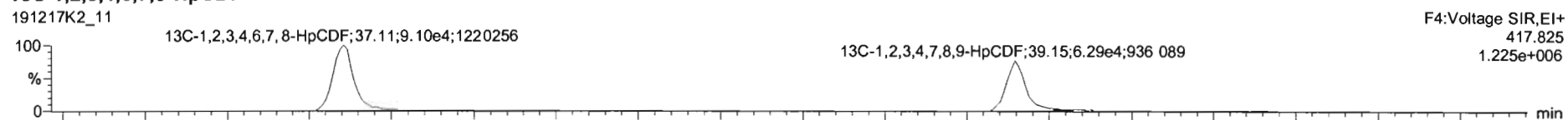
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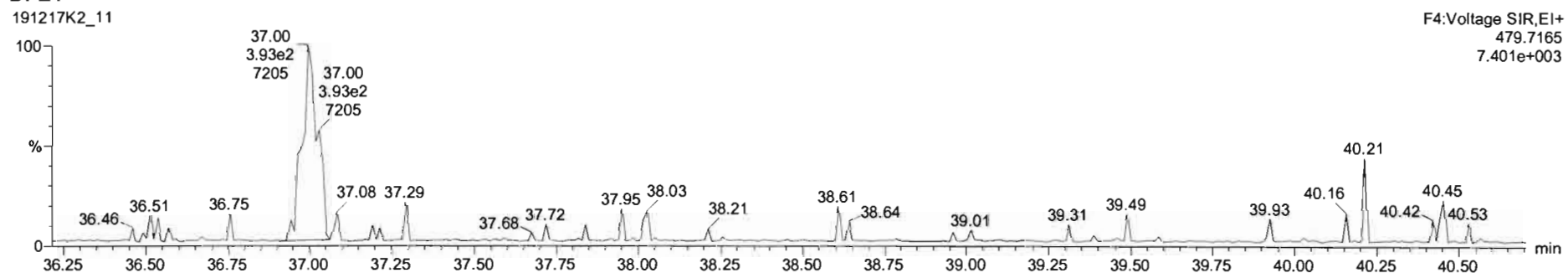
1,2,3,4,6,7,8-HpCDF



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



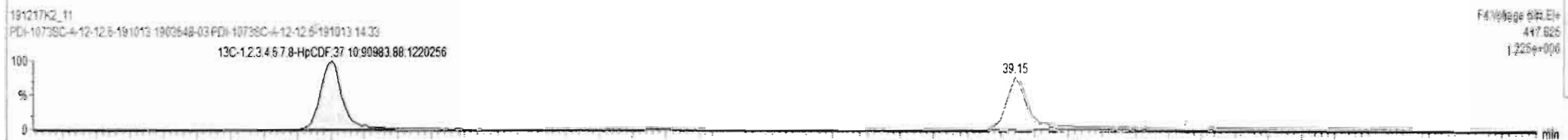
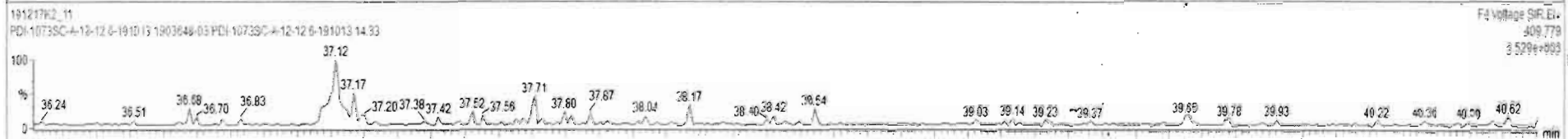
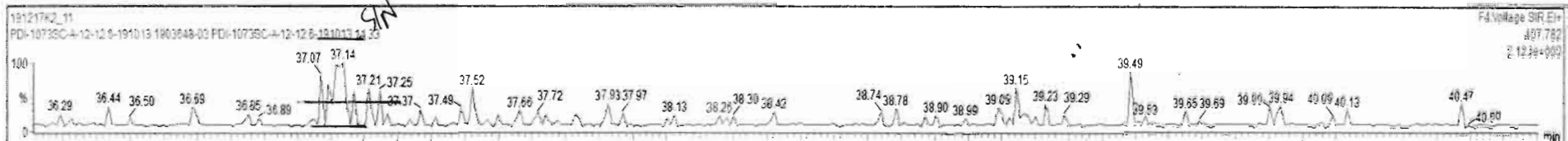
DPE4



191217K2_11 - 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33 - PDI-1073SC-A-12-12.6-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred.R...	RRT	RRT Fai	Conc.	%Rec	DL	EMPC
44	44 Tel Func. Penta-Furans				0.9762	10.006	27.04		0.006		NO			0.0242	
45	45 Total Penta-Furans				0.9762	10.006	29.27		0.000		NO	0.2291		0.0791	0.3064
46	46 Total Hexa-Furans				1.1806	10.006	33.56		0.000		NO			0.0503	
47	47 Total Hepta-Furans				1.1300	10.006	37.83		0.000		NO			0.0472	
48	48 PFK1														
49	49 PFK2														
50	50 PFK3														
51	51 PFK4														
52	52 PFK5														
53	53 DPE1														
54	54 DPE2														
55	55 DPE3														
56	56 DPE4														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



Ready

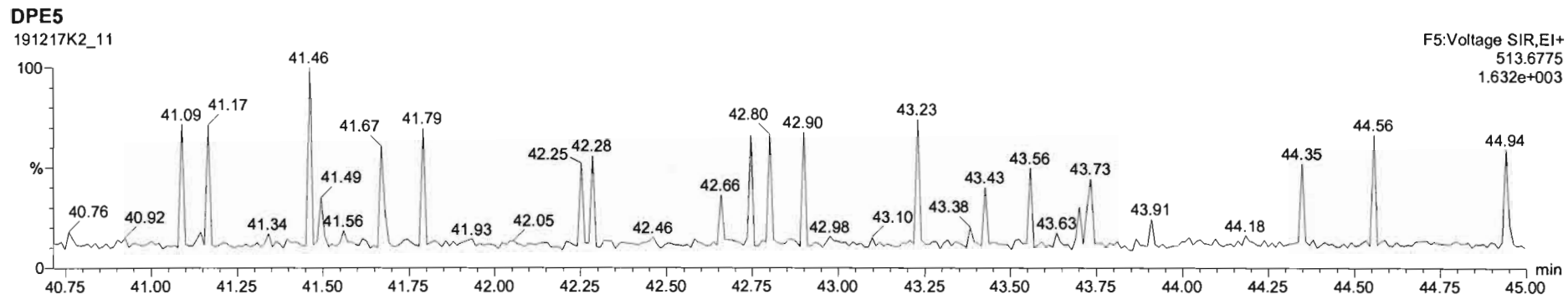
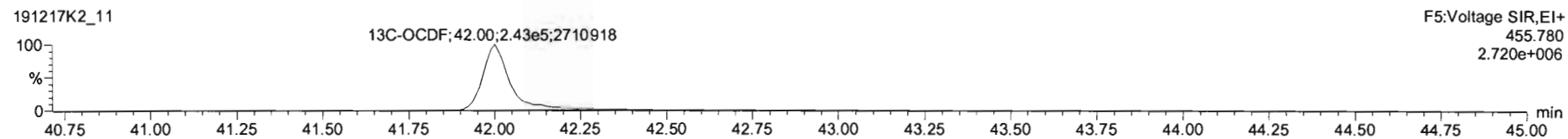
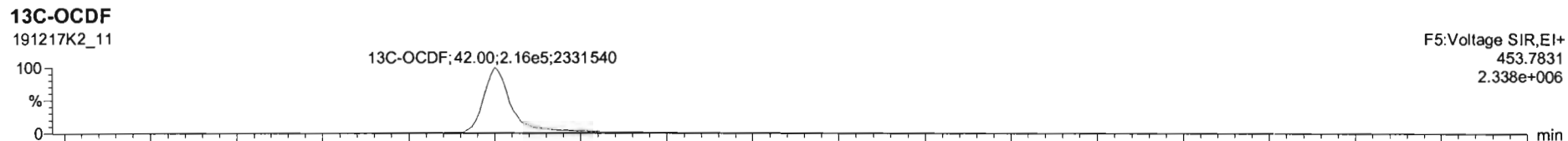
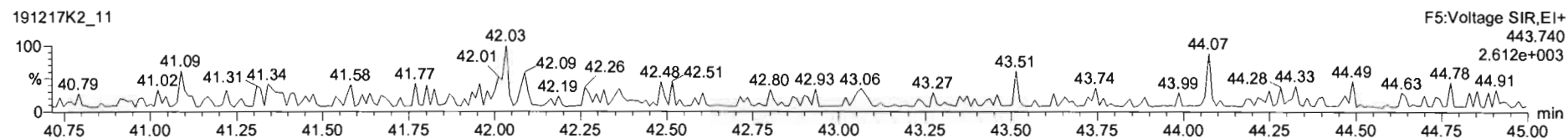
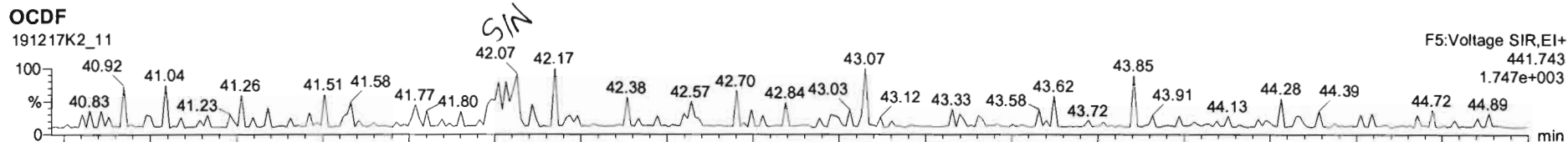
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013

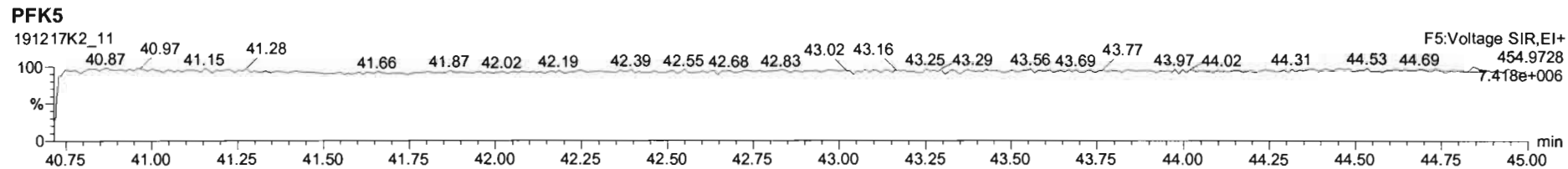
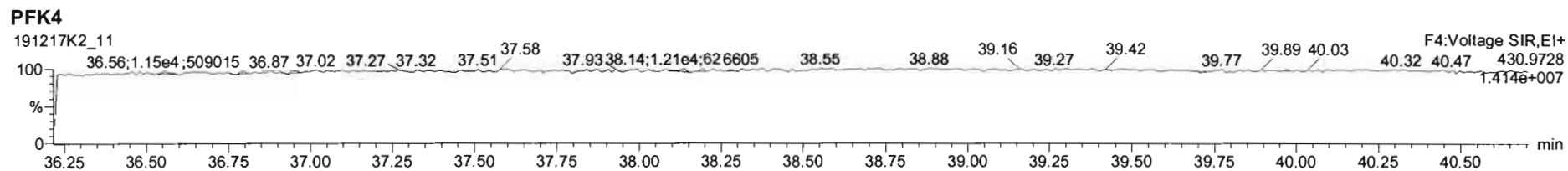
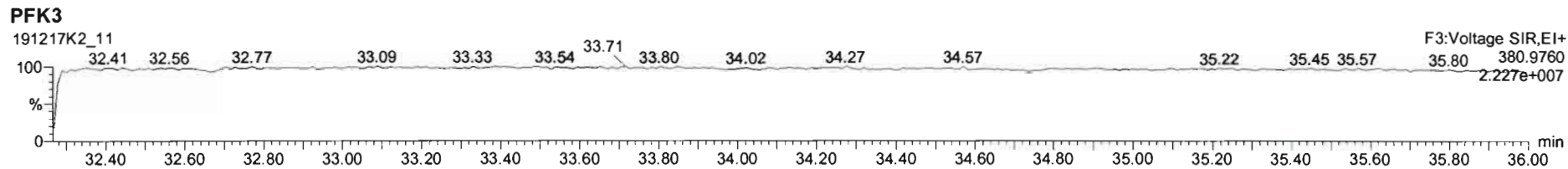
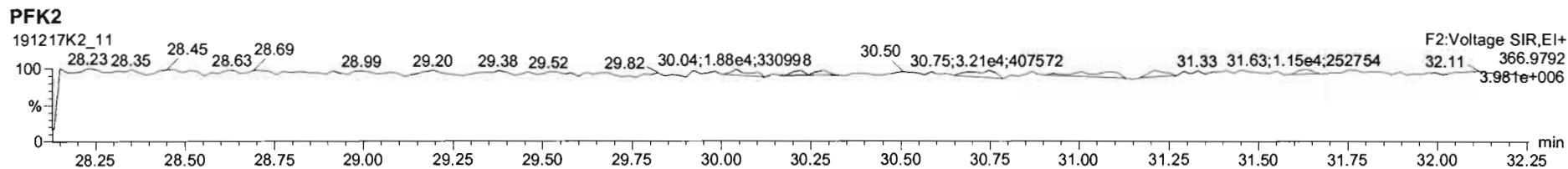
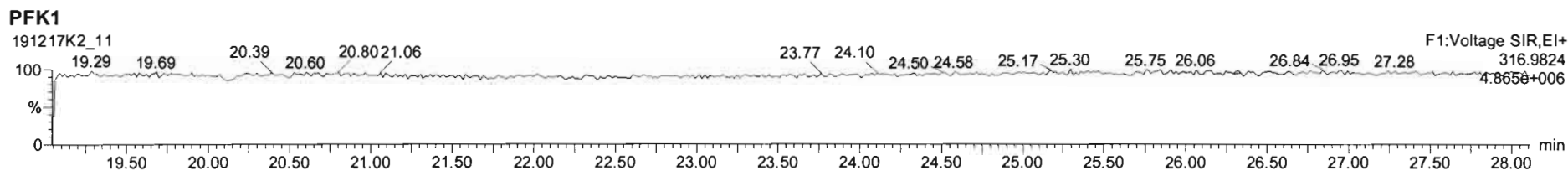


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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_11, Date: 17-Dec-2019, Time: 21:54:47, ID: 1903648-03 PDI-1073SC-A-12-12.6-191013 14.33, Description: PDI-1073SC-A-12-12.6-191013



Dataset: U:\VG11.PRO\Results\191217K2\191217K2-12.qld

Last Altered: Thursday, December 26, 2019 16:50:08 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:24:57 Pacific Standard Time

Et 12/26/19

Ct 12/27/19

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.925	10.041	26.18		1.00		YES			0.167	
2	2 1,2,3,7,8-PeCDD				0.905	10.041	31.33		1.00		YES			0.115	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.041	34.67		1.00		YES			0.193	
4	4 1,2,3,6,7,8-HxCDD				0.967	10.041	34.76		1.00		YES			0.178	
5	5 1,2,3,7,8,9-HxCDD				0.978	10.041	35.07		1.00		YES			0.207	
6	6 1,2,3,4,6,7,8-HpCDD	1190.911	1.023	NO	1.04	10.041	38.57	38.55	1.00	1.00	NO	1.131		0.262	1.131
7	7 OCDD	6517.330	0.867	NO	0.972	10.041	41.83	41.86	1.00	1.00	NO	8.853		0.506	8.853
8	8 2,3,7,8-TCDF				0.938	10.041	25.20		1.00		YES			0.146	
9	9 1,2,3,7,8-PeCDF				0.976	10.041	30.02		1.00		YES			0.0856	
10	10 2,3,4,7,8-PeCDF				1.00	10.041	31.02		1.00		YES			0.0741	
11	11 1,2,3,4,7,8-HxCDF	149.887	1.455	YES	1.24	10.041	33.79	33.81	1.00	1.00	NO	0.07169		0.0300	0.06500
12	12 1,2,3,6,7,8-HxCDF				1.10	10.041	33.92		1.00		YES			0.0827	
13	13 2,3,4,6,7,8-HxCDF				1.18	10.041	34.53		1.00		YES			0.0888	
14	14 1,2,3,7,8,9-HxCDF				1.07	10.041	35.37		1.00		YES			0.124	
15	15 1,2,3,4,6,7,8-HpCDF	255.391	0.958	NO	1.13	10.041	37.15	37.13	1.00	1.00	NO	0.1530		0.0391	0.1530
16	16 1,2,3,4,7,8,9-HpCDF				1.26	10.041	39.16		1.00		YES			0.105	
17	17 OCDF				1.10	10.041	42.02		1.00		YES			0.170	
18	18 13C-2,3,7,8-TCDD	429369.047	0.778	NO	1.05	10.041	26.16	26.15	1.03	1.03	NO	166.4	83.5	0.447	
19	19 13C-1,2,3,7,8-PeCDD	329887.883	0.605	NO	0.743	10.041	31.31	31.31	1.23	1.23	NO	180.5	90.6	0.448	
20	20 13C-1,2,3,4,7,8-HxCDD	220650.265	1.238	NO	0.646	10.041	34.65	34.66	1.01	1.01	NO	136.6	68.6	0.737	
21	21 13C-1,2,3,6,7,8-HxCDD	284217.797	1.180	NO	0.777	10.041	34.75	34.76	1.02	1.02	NO	146.4	73.5	0.613	
22	22 13C-1,2,3,7,8,9-HxCDD	249804.102	1.162	NO	0.659	10.041	35.02	35.03	1.02	1.02	NO	151.6	76.1	0.722	
23	23 13C-1,2,3,4,6,7,8-HpCDD	202162.632	1.080	NO	0.534	10.041	38.52	38.55	1.13	1.13	NO	151.4	76.0	0.784	
24	24 13C-OCDD	301791.062	0.900	NO	0.470	10.041	41.80	41.83	1.22	1.22	NO	256.8	64.5	1.15	
25	25 13C-2,3,7,8-TCDF	642138.375	0.736	NO	0.977	10.041	25.17	25.17	0.99	0.99	NO	169.9	85.3	0.618	
26	26 13C-1,2,3,7,8-PeCDF	482626.969	1.563	NO	0.778	10.041	30.00	30.00	1.18	1.18	NO	160.5	80.6	0.911	
27	27 13C-2,3,4,7,8-PeCDF	470617.734	1.475	NO	0.750	10.041	30.99	30.99	1.22	1.22	NO	162.3	81.5	0.945	
28	28 13C-1,2,3,4,7,8-HxCDF	334886.781	0.525	NO	0.845	10.041	33.79	33.79	0.99	0.99	NO	158.6	79.6	1.04	
29	29 13C-1,2,3,6,7,8-HxCDF	403362.438	0.518	NO	1.03	10.041	33.90	33.91	0.99	0.99	NO	157.2	78.9	0.852	
30	30 13C-2,3,4,6,7,8-HxCDF	347968.390	0.515	NO	0.893	10.041	34.48	34.49	1.01	1.01	NO	156.0	78.3	0.980	

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-12.qld

Last Altered: Thursday, December 26, 2019 16:50:08 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:24:57 Pacific Standard Time

Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	299907.305	0.492	NO	0.734	10.041	35.38	35.37	1.04	1.03	NO	163.4	82.1	1.19	
32	32 13C-1,2,3,4,6,7,8-HpCDF	294172.258	0.425	NO	0.754	10.041	37.09	37.12	1.09	1.09	NO	156.1	78.4	0.722	
33	33 13C-1,2,3,4,7,8,9-HpCDF	206565.895	0.433	NO	0.539	10.041	39.12	39.16	1.14	1.15	NO	153.4	77.0	1.01	
34	34 13C-OCDF	432818.047	0.881	NO	0.593	10.041	41.99	42.02	1.23	1.23	NO	292.3	73.4	0.716	
35	35 37Cl-2,3,7,8-TCDD	194743.219			1.07	10.041	26.18	26.18	1.03	1.03	NO	74.02	92.9	0.101	
36	36 13C-1,2,3,4-TCDD	490003.719	0.795	NO	1.00	10.041	25.45	25.47	1.00	1.00	NO	199.2	100	0.469	
37	37 13C-1,2,3,4-TCDF	770104.500	0.734	NO	1.00	10.041	23.55	23.58	1.00	1.00	NO	199.2	100	0.604	
38	38 13C-1,2,3,4,6,9-HxCDF	497740.657	0.512	NO	1.00	10.041	34.16	34.17	1.00	1.00	NO	199.2	100	0.875	
39	39 Total Tetra-Dioxins				0.925	10.041	24.62		0.00		NO			0.104	
40	40 Total Penta-Dioxins				0.905	10.041	29.96		0.00		NO	0.0000		0.0431	0.1100
41	41 Total Hexa-Dioxins				0.967	10.041	33.63		0.00		NO	0.0000		0.108	0.7730
42	42 Total Hepta-Dioxins				1.04	10.041	38.80		0.00		NO	2.842		0.262	2.842
43	43 Total Tetra-Furans				0.938	10.041	23.61		0.00		NO	0.5920		0.146	0.5920
44	44 1st Func. Penta-Furans				0.976	10.041	27.04		0.00		NO			0.0127	
45	45 Total Penta-Furans				0.976	10.041	29.27		0.00		NO	0.2707		0.0440	0.2710
46	46 Total Hexa-Furans				1.18	10.041	33.56		0.00		NO	0.1683		0.0439	0.2810
47	47 Total Hepta-Furans				1.13	10.041	37.83		0.00		NO	0.1530		0.0450	0.1530

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-12.qld

Last Altered: Thursday, December 26, 2019 16:50:08 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:26:44 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	3.30e5	0.763	YES	29.96	29.56	0.0000	0.1100

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.027	YES	33.63	33.21	0.0000	0.7730

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	1.19e3	2.02e5	1.023	NO	38.57	38.55	1.131	1.131
2	42 Total Hepta-Dioxins	1.80e3	2.02e5	1.065	NO	38.80	37.53	1.711	1.711

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	1.79e3	6.42e5	0.768	NO	23.61	20.89	0.5920	0.5920

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-12.qld

Last Altered: Thursday, December 26, 2019 16:50:08 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:26:44 Pacific Standard Time

Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	4.08e2	0.00e0	1.758	NO	29.27	28.99	0.1746	0.1750
2	45 Total Penta-Furans	2.24e2	0.00e0	1.351	NO	29.27	28.83	0.09607	0.09600

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	11 1,2,3,4,7,8-HxCDF	1.50e2	3.35e5	1.455	YES	33.79	33.81	0.0000	0.06500
2	46 Total Hexa-Furans	0.00e0	0.00e0	1.852	YES	33.56	32.67	0.0000	0.04700
3	46 Total Hexa-Furans	2.29e2	0.00e0	1.371	NO	33.56	32.83	0.1117	0.1120
4	46 Total Hexa-Furans	1.16e2	0.00e0	1.149	NO	33.56	33.69	0.05656	0.05700

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	2.55e2	2.94e5	0.958	NO	37.15	37.13	0.1530	0.1530

Dataset: Untitled

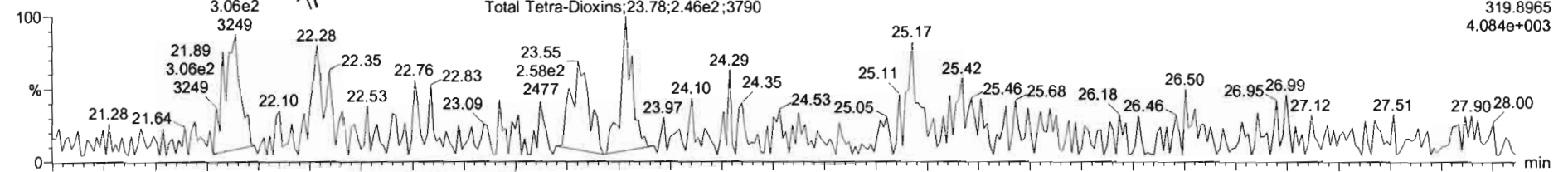
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

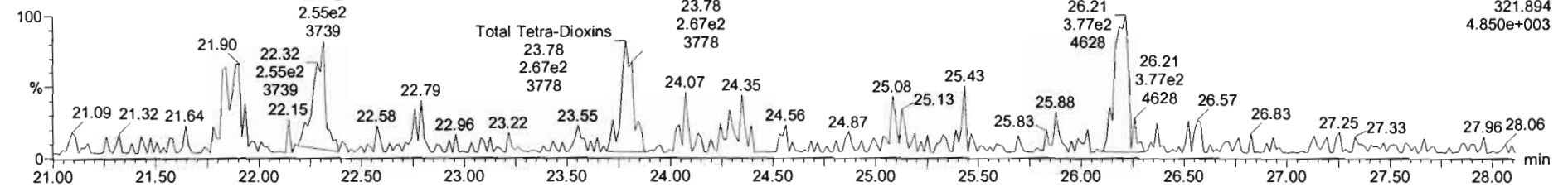
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2,3,7,8-TCDD

191217K2_12

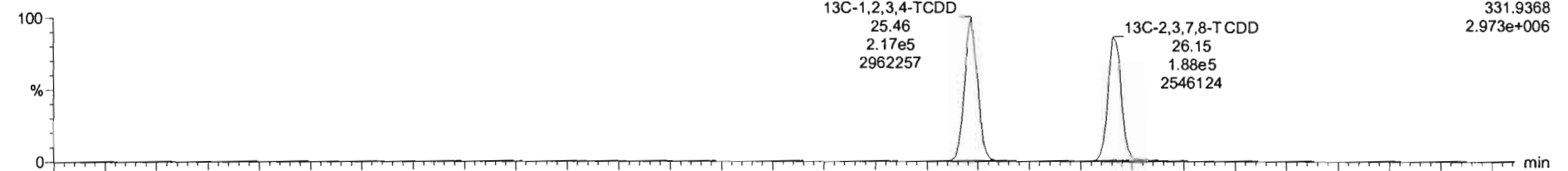


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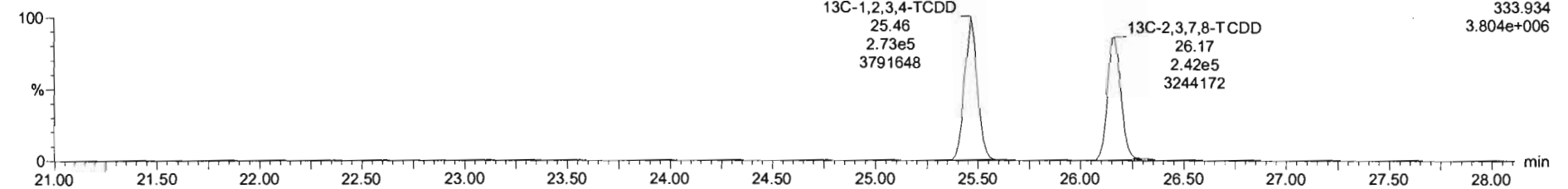


13C-2,3,7,8-TCDD

191217K2_12



191217K2_12



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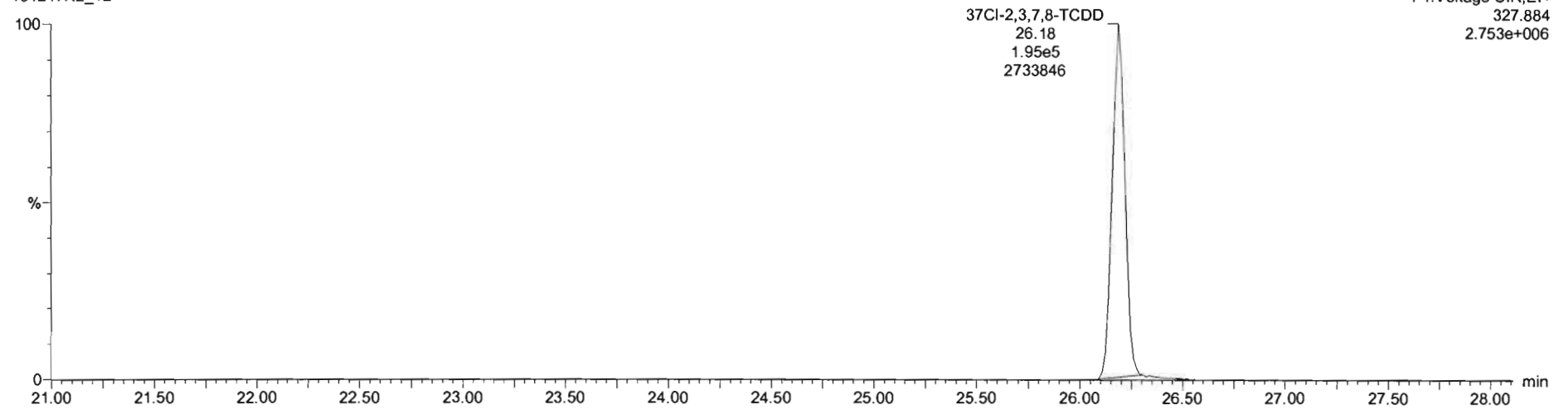
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Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013

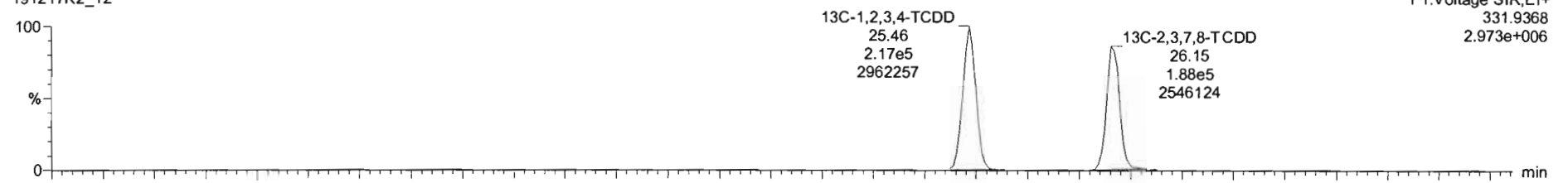
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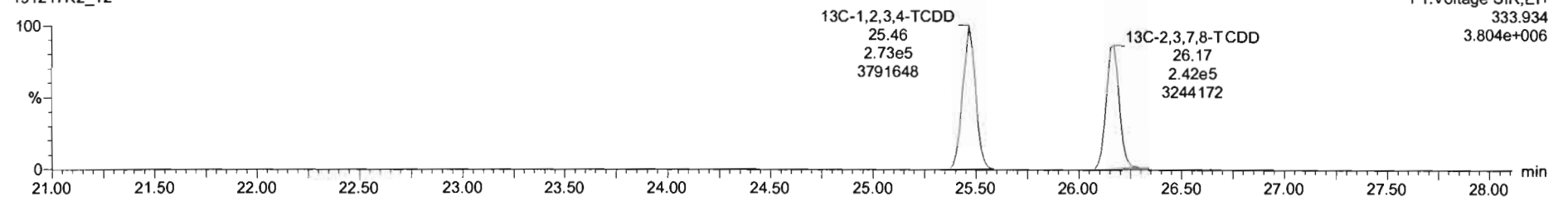


13C-1,2,3,4-TCDD

191217K2_12



191217K2_12



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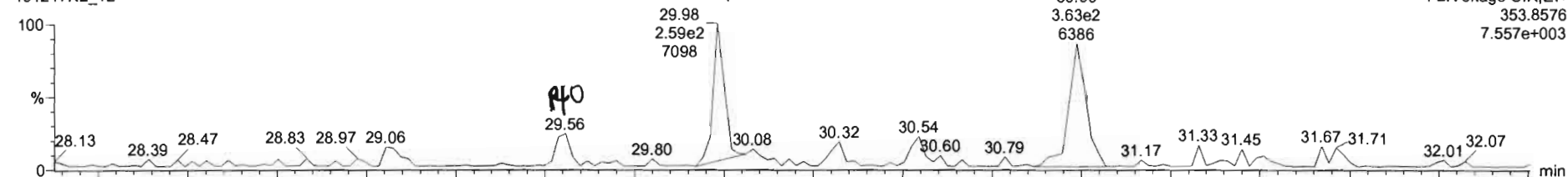
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

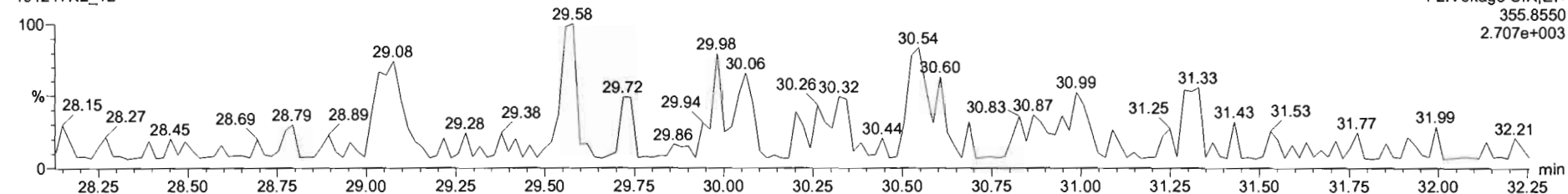
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1,2,3,7,8-PeCDD

191217K2_12

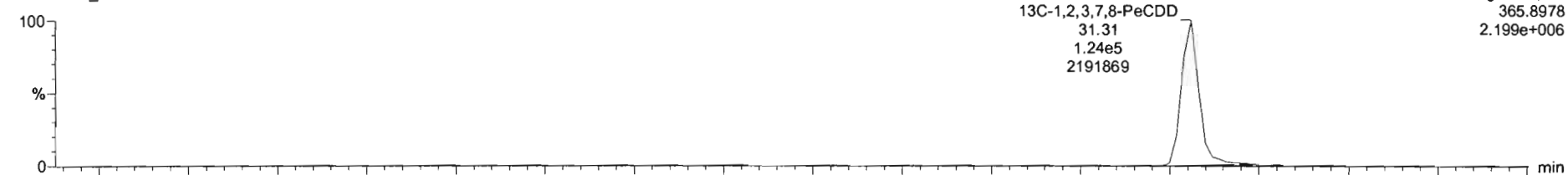


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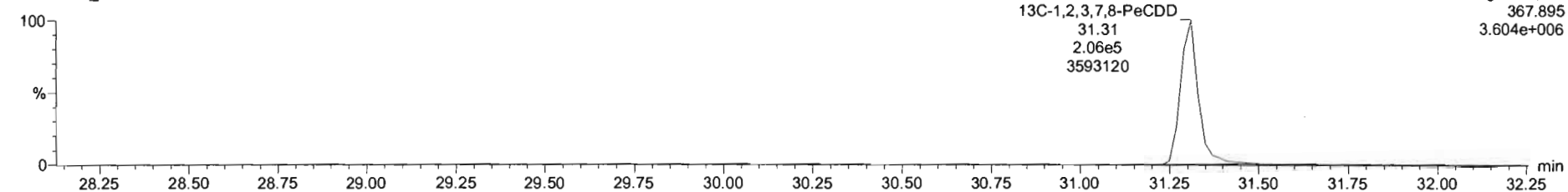


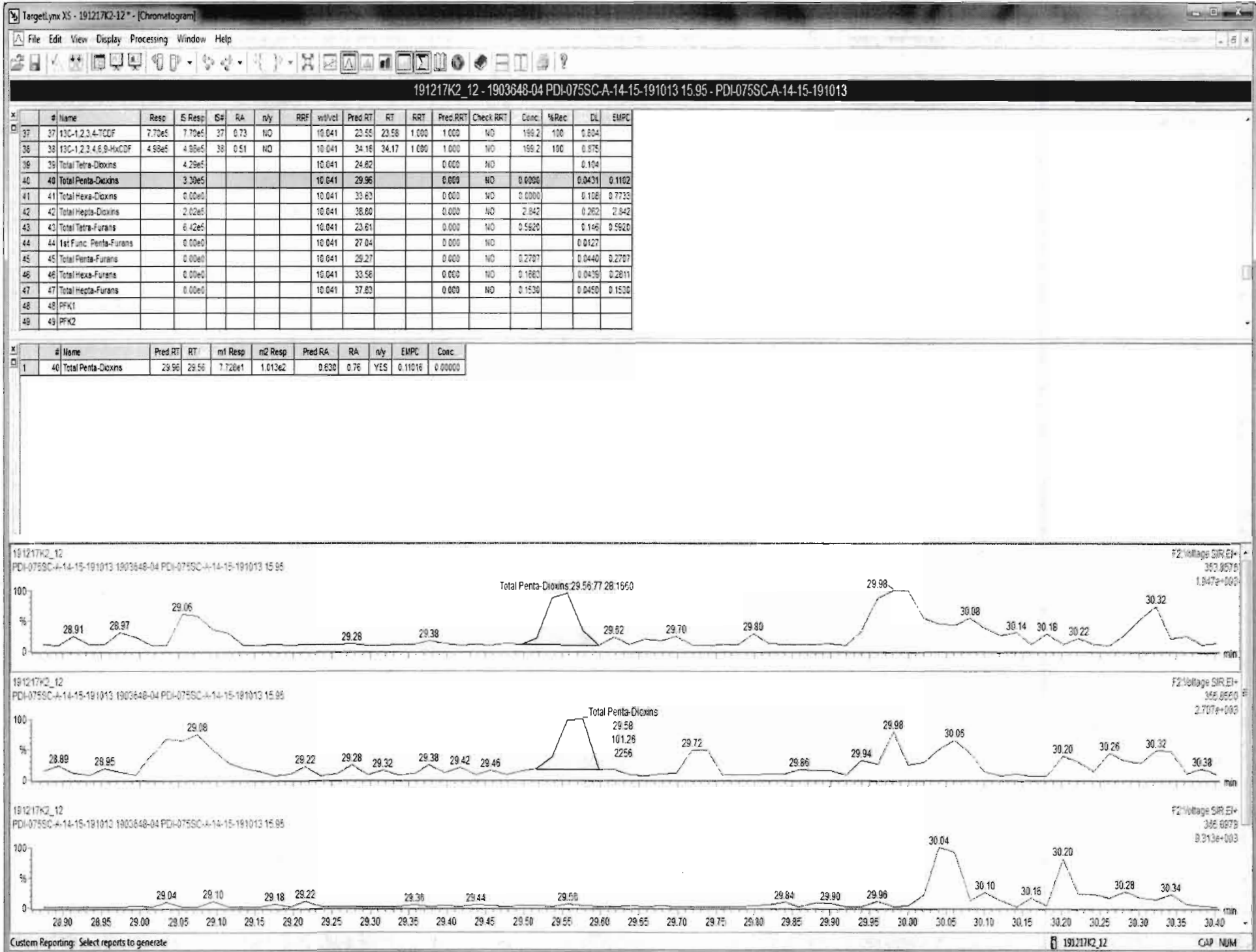
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191217K2_12



191217K2_12





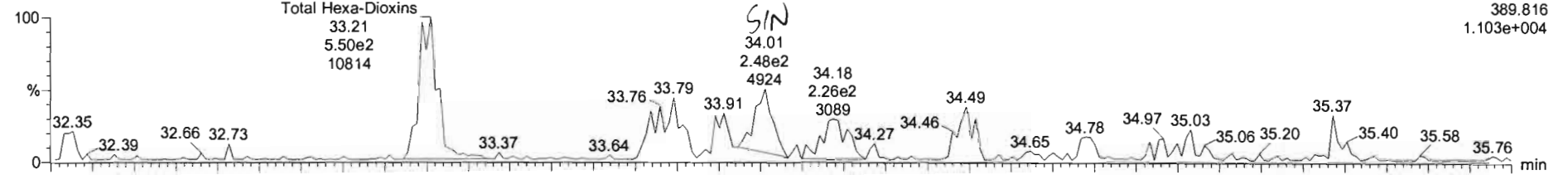
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

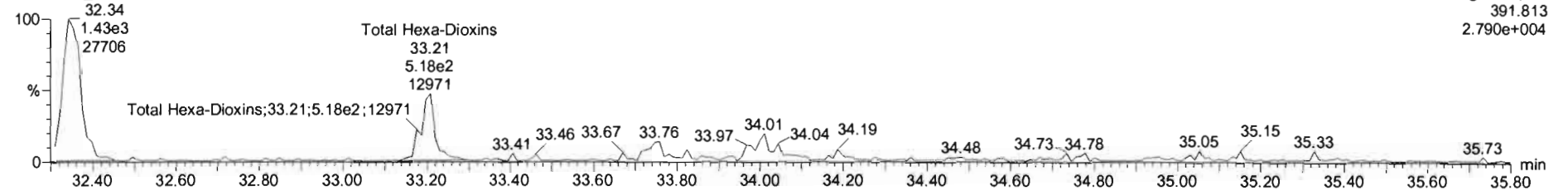
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1,2,3,4,7,8-HxCDD

191217K2_12

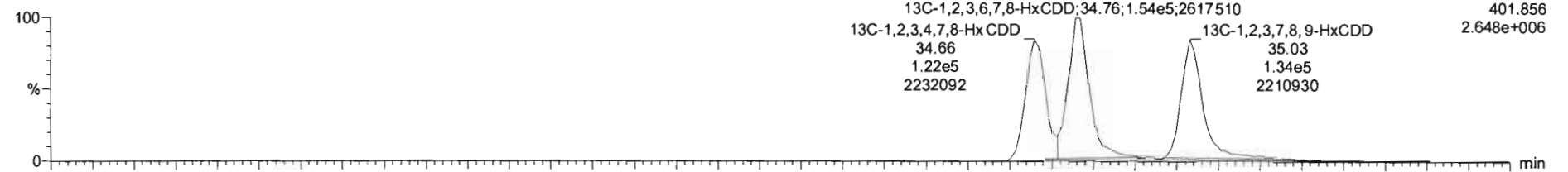


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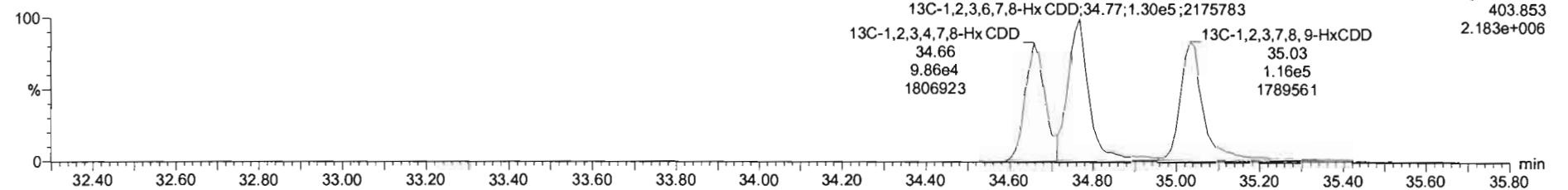


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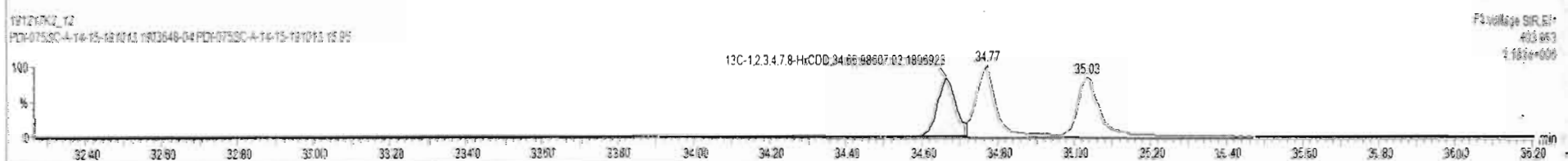
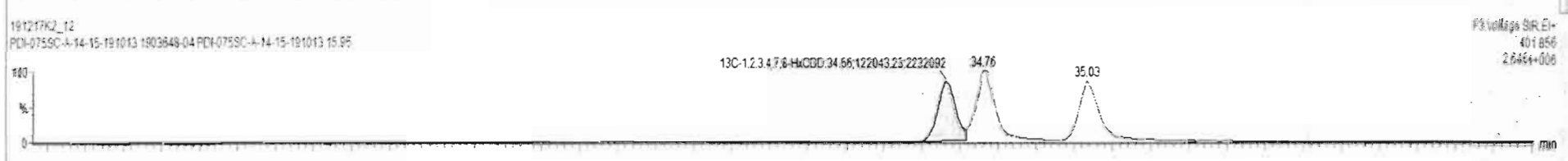
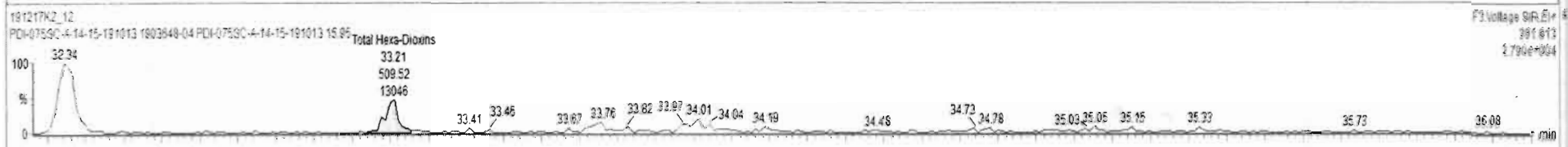
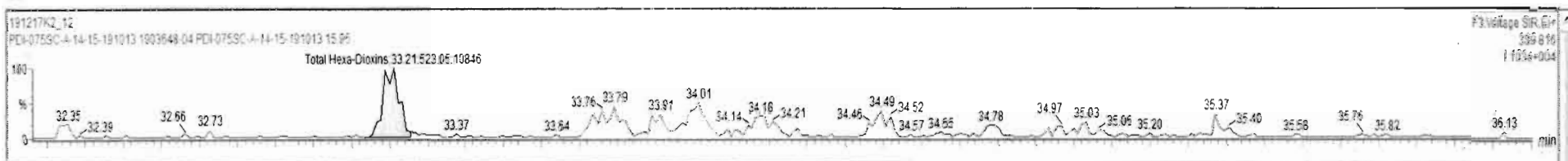
191217K2_12



191217K2_12 - 1903648-04 PDI-075SC-A-14-15-191013 15.95 - PDI-075SC-A-14-15-191013

#	Name	Resp	RA	n/y	RF	wVol	Pred RT	RT	Pred.R.	RRT	RRT Fax	Conc.	%Rec	DL	EMPC
34	13C-OCDF	4.33e5	0.88	NO	0.5925	10.041	41.99	42.02	1.229	1.230	NO	292.3	73.4	0.716	
35	3TCI-2,3,7,8-TCDD	1.95e5			1.0895	10.041	26.16	26.18	1.028	1.028	NO	74.02	92.9	0.101	
36	13C-1,2,3,4-TCDD	4.90e5	0.80	NO	1.0000	10.041	25.45	25.47	1.000	1.000	NO	199.2	100	0.469	
37	13C-1,2,3,4-TCDF	7.70e5	0.73	NO	1.0000	10.041	23.55	23.58	1.000	1.000	NO	199.2	100	0.604	
38	13C-1,2,3,4,6,9-HxCDF	4.88e5	0.51	NO	1.0000	10.041	34.16	34.17	1.000	1.000	NO	199.2	100	0.875	
39	Total Tetra-Dioxins				0.9249	10.041	24.62		0.000		NO			0.104	
40	Total Penta-Dioxins				0.9046	10.041	29.96		0.000		NO			0.0431	
41	Total Hexa-Dioxins				0.9675	10.041	33.63		0.000		NO	0.0000		0.108	0.7733
42	Total Hepta-Dioxins				1.0375	10.041	38.80		0.000		NO	2.796		0.262	2.796
43	Total Tetra-Furans				0.9376	10.041	23.81		0.000		NO	0.8130		0.145	1.359
44	1st Func. Penta-Furans				0.9762	10.041	27.04		0.000		NO			0.0127	
45	Total Penta-Furans				0.9762	10.041	29.27		0.000		NO			0.0440	
46	Total Hexa-Furans				1.1806	10.041	33.56		0.000		NO			0.0439	

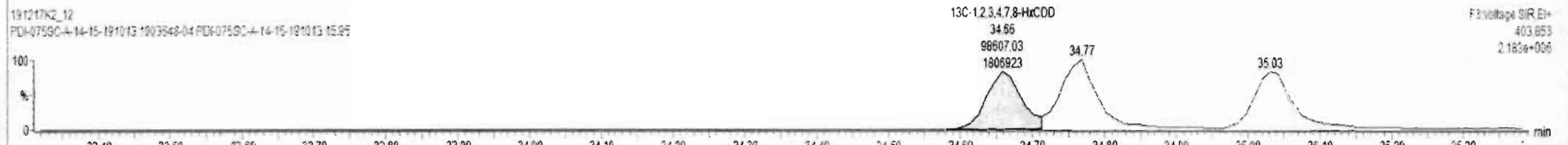
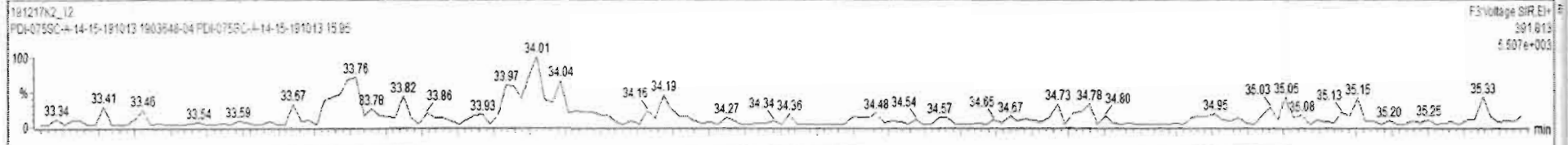
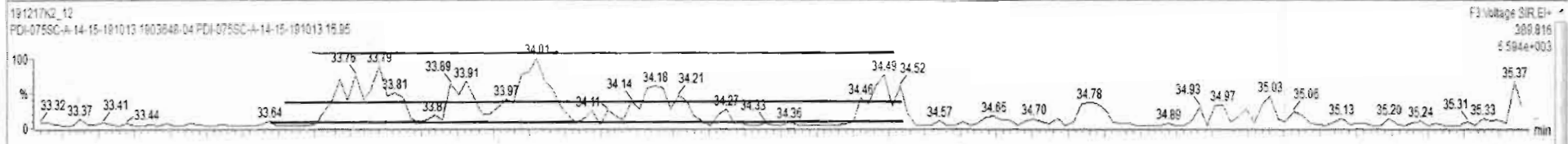
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
41	Total Hexa-Dioxins	33.63	33.21	5.231e2	5.095e2	1.240	1.03	YES	0.77328	0.00000



191217K2_12 - 1903648-04 PDI-075SC-A-14-15-191013 15.95 - PDI-075SC-A-14-15-191013

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
34	13C-OCDF	4.93e5	0.86	NO	0.5925	10.041	41.99	42.02	1.229	1.230	NO	292.3	72.4	0.716	
35	37Cl-2,3,7,8-TCDD	1.95e5			1.0695	10.041	26.18	26.18	1.028	1.028	NO	74.02	92.9	0.101	
36	13C-1,2,3,4-TCDD	4.99e5	0.80	NO	1.0000	10.041	25.45	25.47	1.000	1.000	NO	199.2	100	0.469	
37	37Cl-1,2,3,4-TCDF	7.70e5	0.73	NO	1.0000	10.041	23.55	23.58	1.000	1.000	NO	199.2	100	0.604	
38	13C-1,2,3,4,6,8-HxCDF	4.98e5	0.51	NO	1.0000	10.041	34.16	34.17	1.000	1.000	NO	199.2	100	0.875	
39	Total Tetra-Dioxins				0.9249	10.041	24.62		0.000		NO			0.194	
40	Total Penta-Dioxins				0.9046	10.041	29.96		0.000		NO			0.0431	
41	Total Hexa-Dioxins				0.9675	10.041	33.63		0.000		NO	0.0000		0.108	0.7733
42	Total Hepta-Dioxins				1.0375	10.041	38.80		0.000		NO	2.799		0.262	2.799
43	Total Tetra-Furans				0.9376	10.041	23.61		0.000		NO	0.6138		0.146	1.359
44	1st Func. Penta-Furans				0.9762	10.041	27.94		0.000		NO			0.0122	
45	Total Penta-Furans				0.9762	10.041	29.27		0.000		NO			0.0440	
46	Total Hexa-Furans				1.1806	10.041	33.56		0.000		NO			0.0436	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	33.21	5.231e2	5.095e2	1.240	1.03	YES	0.77326	0.00000



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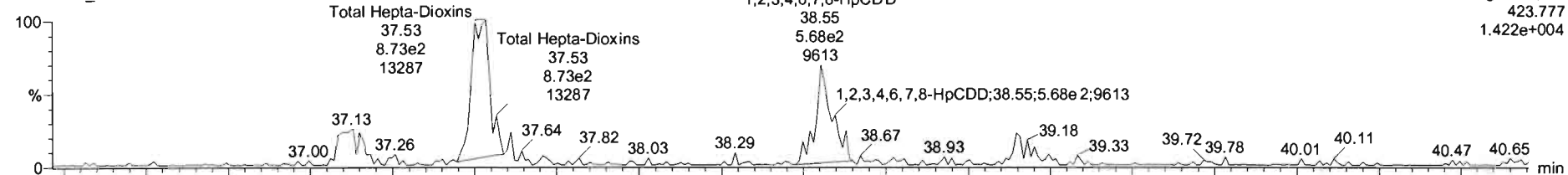
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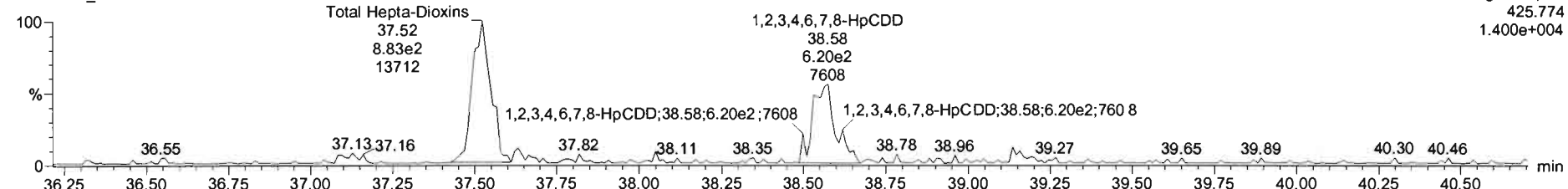
Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013

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

191217K2_12

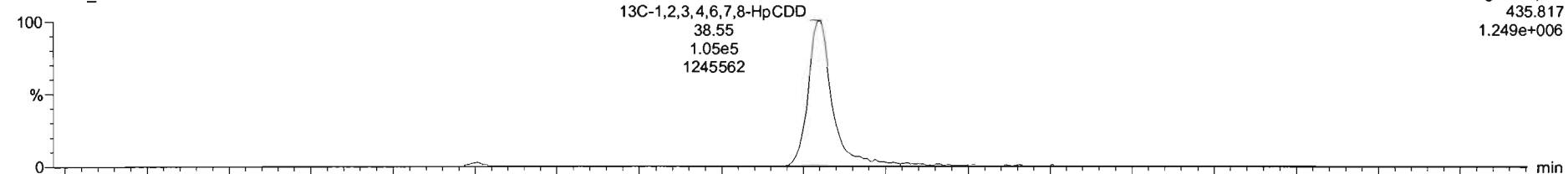


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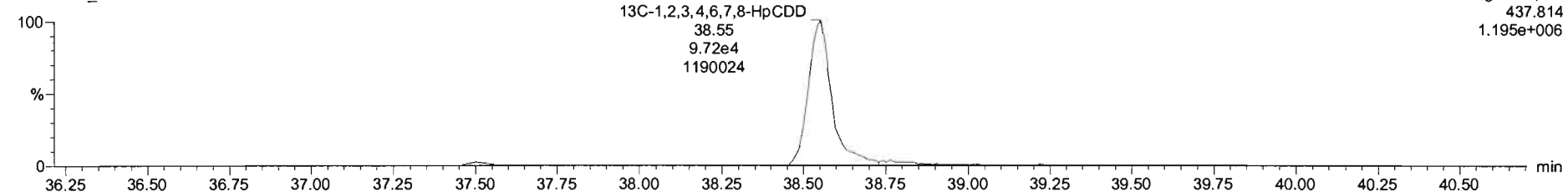


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191217K2_12



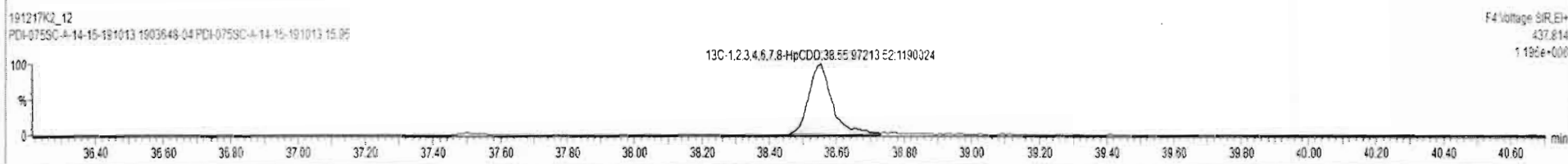
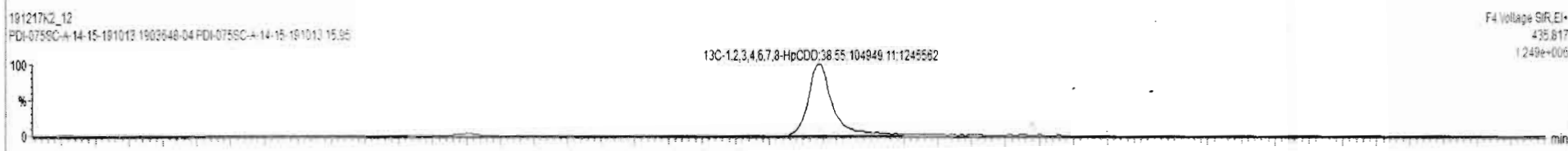
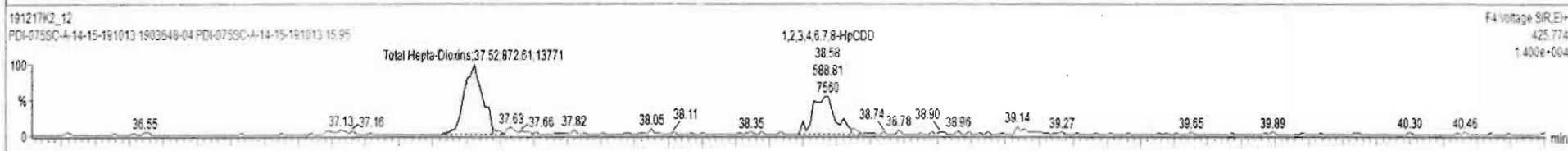
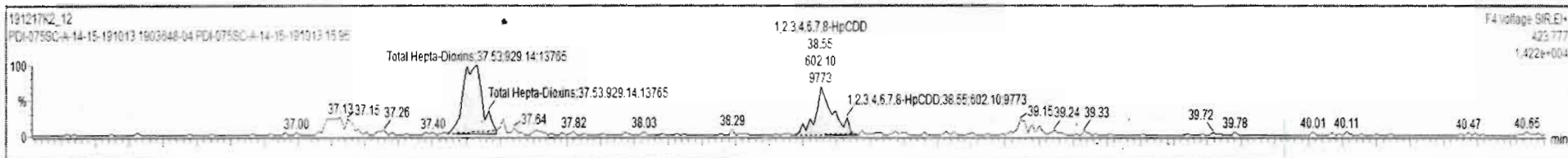
191217K2_12



191217K2_12 - 1903648-04 PDI-075SC-A-14-15-191013 15.95 - PDI-075SC-A-14-15-191013

#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fed	Conc.	%Rec	DL	EMPC
34	13C-OCDF	4.33e6	0.80	NO	0.5925	10.041	41.99	42.02	1.229	1.230	NO	292.3	73.4	0.716	
35	37C12.3.7.8-TCDD	1.95e6			1.0696	10.041	26.18	26.18	1.028	1.028	NO	74.02	92.9	0.101	
36	13C-1.2.3.4-TCDD	4.90e6	0.80	NO	1.0000	10.041	25.45	25.47	1.000	1.000	NO	199.2	100	0.469	
37	37C13C-1.2.3.4-TCDF	7.70e6	0.73	NO	1.0000	10.041	23.55	23.58	1.000	1.000	NO	199.2	100	0.604	
38	13C-1.2.3.4.6.9-HxCDF	4.98e6	0.51	NO	1.0000	10.041	34.16	34.17	1.000	1.000	NO	199.2	100	0.875	
39	Total Tetra-Dioxins				0.9249	10.041	24.62		0.000		NO			0.104	
40	Total Penta-Dioxins				0.9048	10.041	29.96		0.000		NO			0.0431	
41	Total Hexa-Dioxins				0.9675	10.041	33.63		0.000		NO	0.0000		0.106	0.7733
42	Total Hepta-Dioxins				1.0375	10.041	38.80		0.000		NO	2.842		0.262	2.942
43	Total Tetra-Furans				0.9376	10.041	23.61		0.000		NO	0.6138		0.148	1.359
44	1st Func. Penta-Furans				0.9762	10.041	27.04		0.000		NO			0.0127	
45	Total Penta-Furans				0.9762	10.041	29.27		0.000		NO			0.0440	
46	Total Hexa-Furans				1.1806	10.041	33.56		0.000		NO			0.0439	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	I ² Ratio (Pred)	RA	nly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDD	38.57	38.55	6.021e2	5.888e2	1.040	1.02	NO	1.1309	1.1309
2	Total Hepta-Dioxins	38.60	37.53	9.291e2	6.726e2	1.040	1.06	NO	1.7110	1.7110



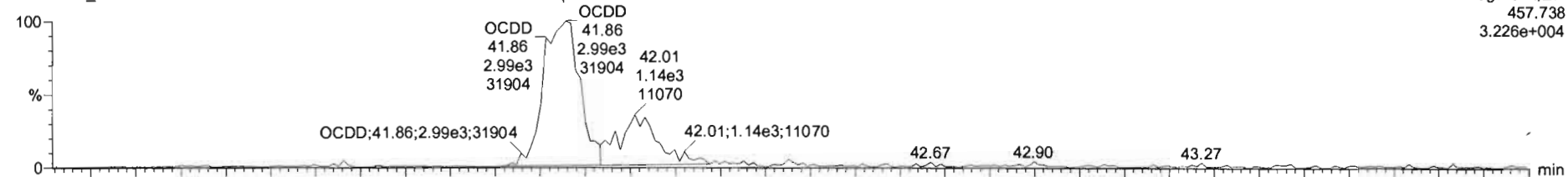
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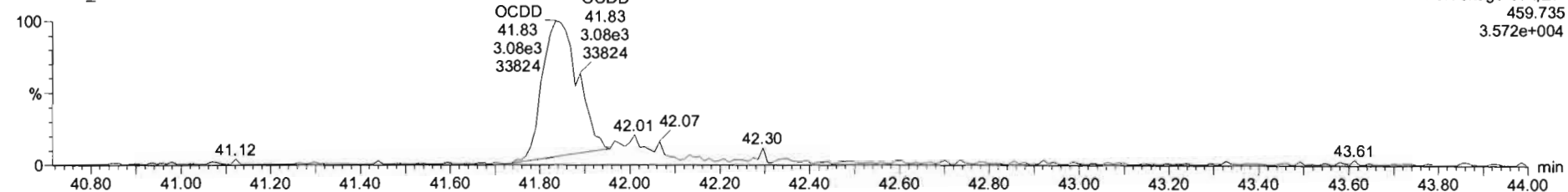
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OCDD

191217K2_12



191217K2_12

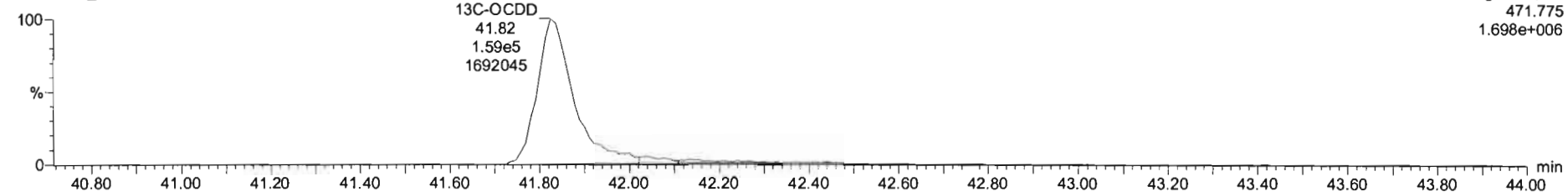


13C-OCDD

191217K2_12



191217K2_12





191217K2_12 - 1903648-04 PDI-075SC-A-14-15-191013 15.95 - PDI-075SC-A-14-15-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rep	DL	EMPC
4	1,2,3,6,7,8-HxCDD				0.9675	10.041	34.76		1.000		YES			0.178	
5	1,2,3,7,8,9-HxCDD				0.9778	10.041	35.07		1.001		YES			0.207	
6	1,2,3,4,6,7,8-HxCDD	1.19e3	1.02	NO	1.0375	10.041	38.57	38.55	1.000	1.000	NO	1.121		0.262	1.131
7	OCDD	6.52e3	0.67	NO	0.9718	10.041	41.83	41.86	1.000	1.001	NO	8.653		0.506	8.653
8	2,3,7,8-TCDF	5.31e2	1.00	YES	0.9370	10.041	25.20	25.22	1.001	1.002	NO	0.1756		0.146	0.1498
9	1,2,3,7,8-PeCDF				0.9702	10.041	30.02		1.001		YES			0.0858	
10	2,3,4,7,8-PeCDF				1.0049	10.041	31.02		1.001		YES			0.0741	
11	1,2,3,4,7,8-HxCDF				1.2434	10.041	33.75		1.000		YES			0.0793	
12	1,2,3,6,7,8-HxCDF				1.0950	10.041	33.92		1.000		YES			0.0827	
13	2,3,4,6,7,8-HxCDF				1.1806	10.041	34.53		1.001		YES			0.0889	
14	1,2,3,7,8,9-HxCDF				1.0728	10.041	35.27		1.000		YES			0.124	
15	1,2,3,4,6,7,8-HpCDF				1.1300	10.041	37.15		1.001		YES			0.0852	
16	1,2,3,4,7,8,9-HpCDF				1.2609	10.041	39.16		1.000		YES			0.105	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 ^o Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



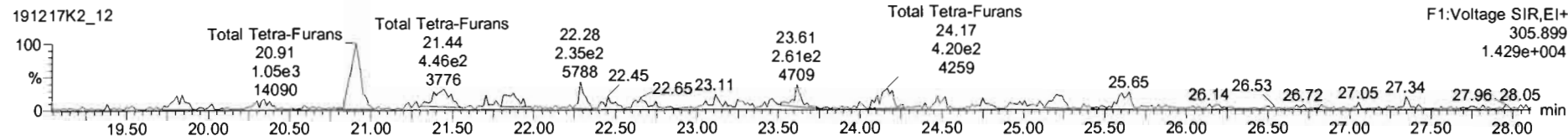
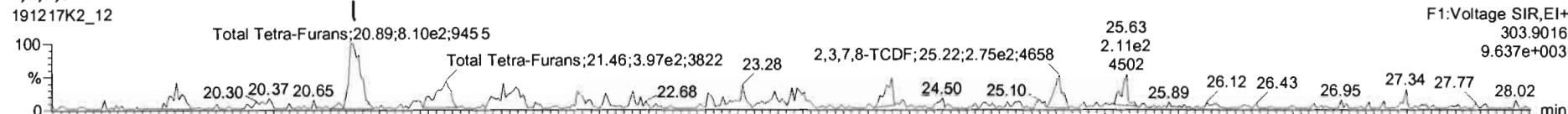
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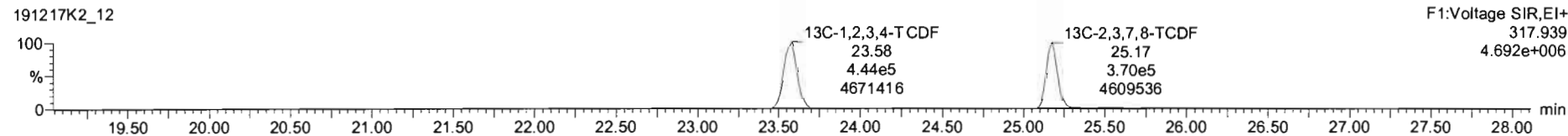
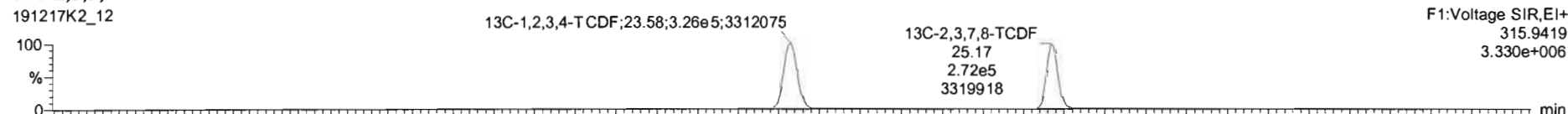
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Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013

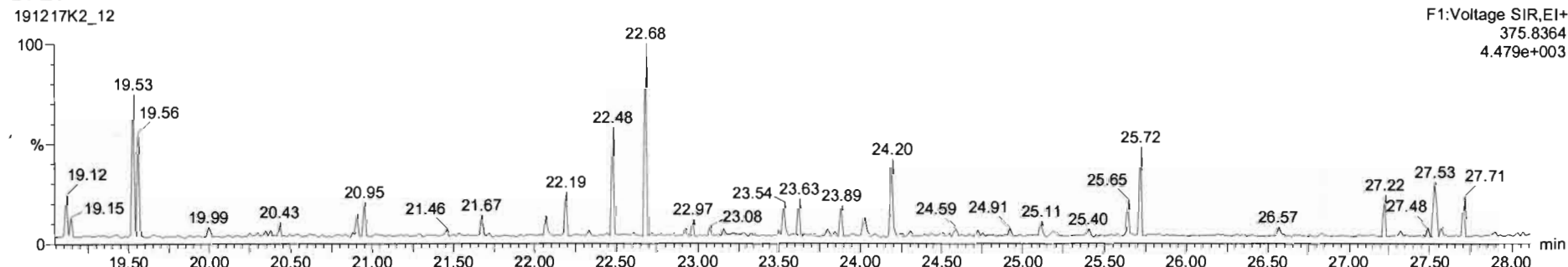
2,3,7,8-TCDF



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



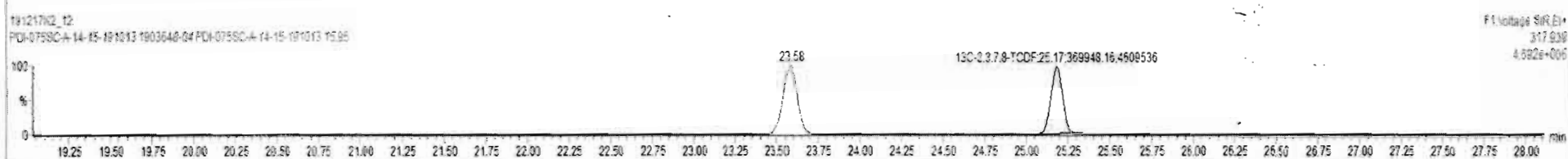
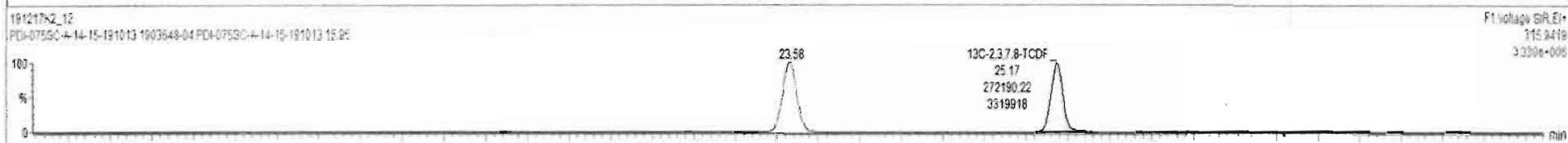
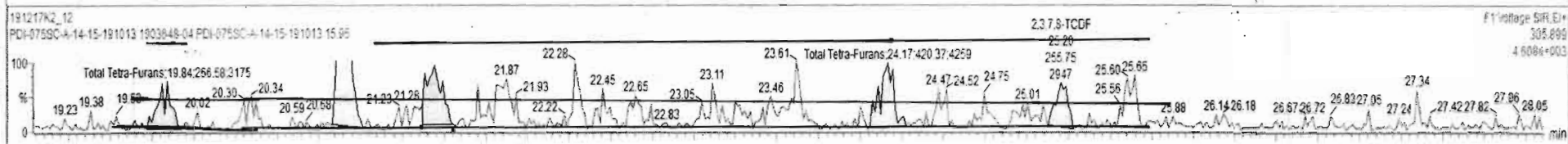
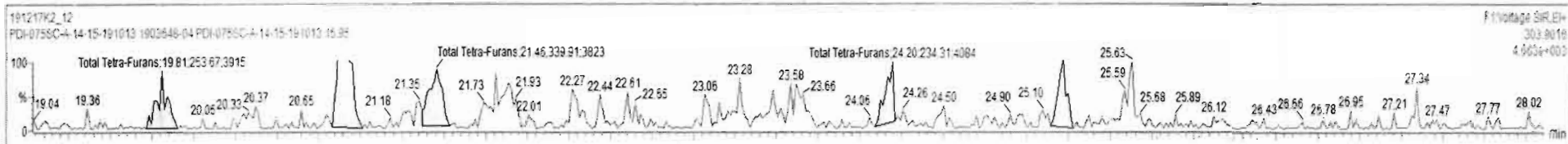
DPE1



191217K2_12 - 1903648-04 PDI-075SC-A-14-15-191013 15.95 - PDI-075SC-A-14-15-191013

#	Name	Resp	RA	nly	RRF	wt%val	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	4.88e5	0.51	NO	1.0000	10.041	34.16	34.17	1.000	1.000	NO	199.2	100	0.875	
39	Total Tetra-Dioxins				0.9249	10.041	24.62		0.000		NO			0.104	
40	Total Penta-Dioxins				0.9046	10.041	29.96		0.000		NO			0.0431	
41	Total Hexa-Dioxins				0.9075	10.041	33.83		0.000		NO	0.0000		0.198	0.7733
42	Total Hepta-Dioxins				1.0075	10.041	38.80		0.000		NO	2.842		0.262	2.842
43	Total Tetra-Furans				0.9376	10.041	23.61		0.000		NO	0.8445		0.146	1.329
44	1st Func. Penta-Furans				0.9762	10.041	27.04		0.000		NO			0.0127	
45	Total Penta-Furans				0.9762	10.041	29.27		0.000		NO			0.0440	
46	Total Hexa-Furans				1.1096	10.041	33.66		0.000		NO			0.0439	
47	Total Hepta-Furans				1.1300	10.041	37.83		0.000		NO			0.0450	
48	PFK1														
49	PFK2														
50	PFK2														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	2,3,7,8-TCDF	25.20	25.22	2.752e2	2.557e2	0.770	1.06	YES	0.14675	0.00000
2	Total Tetra-Furans	23.61	19.61	2.537e2	2.688e2	0.770	0.96	YES	0.15610	0.00000
3	Total Tetra-Furans	23.61	24.20	2.343e2	4.204e2	0.770	0.56	YES	0.17616	0.00000
4	Total Tetra-Furans	23.61	20.86	7.175e2	1.012e2	0.770	0.77	NO	0.59204	0.58204
5	Total Tetra-Furans	23.61	21.46	3.399e2	4.233e2	0.770	0.80	NO	0.25249	0.25249



Custom Reporting: Select reports to generate

191217K2_12

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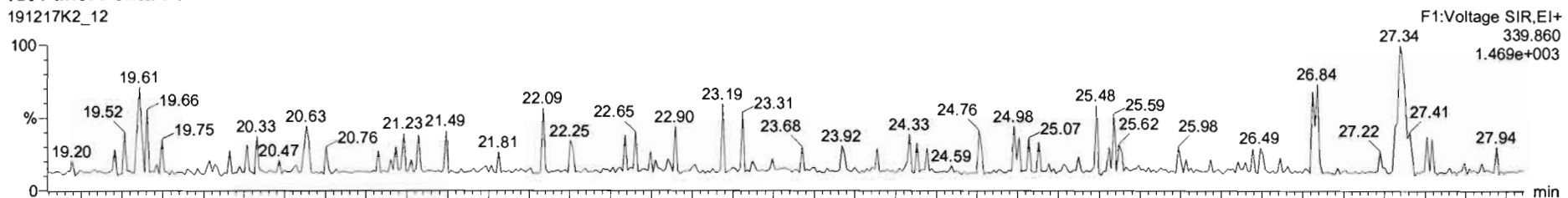
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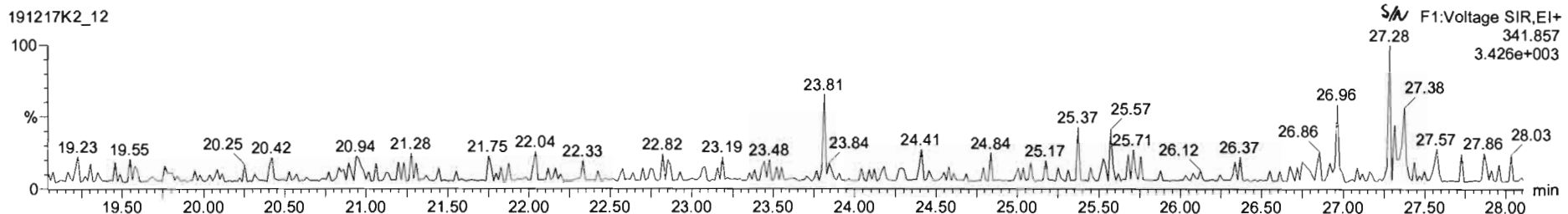
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1st Func. Penta-Furans

191217K2_12

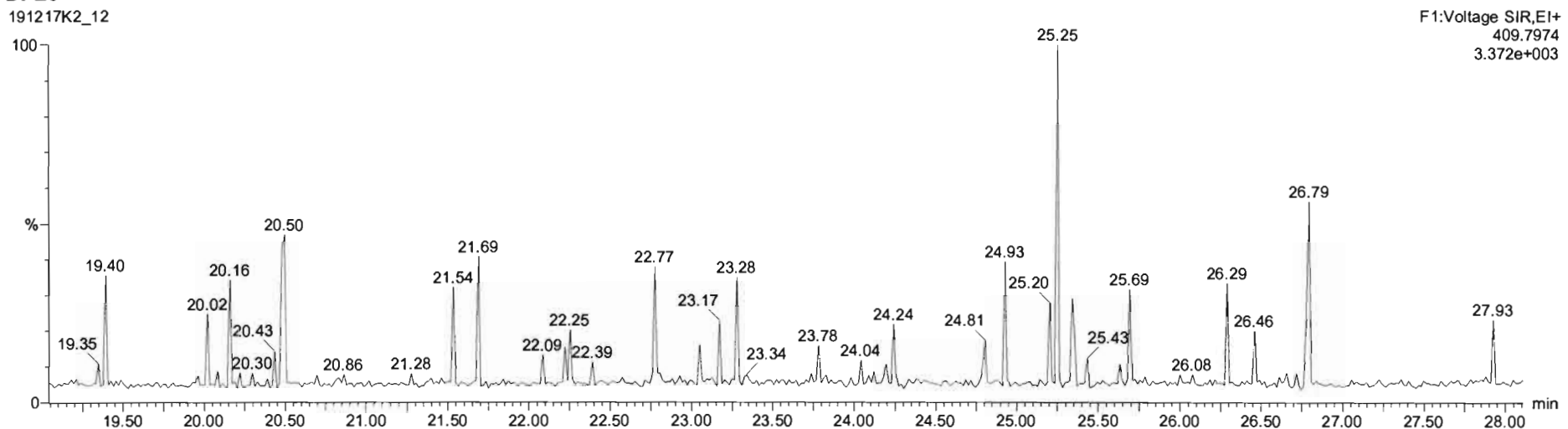


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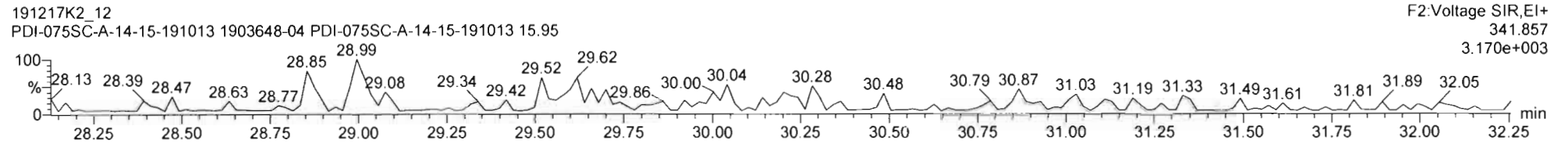
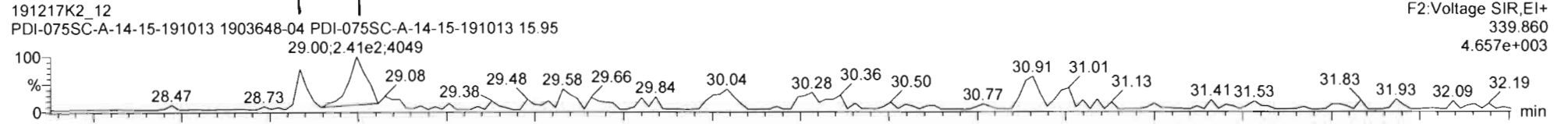
DPE6

191217K2_12

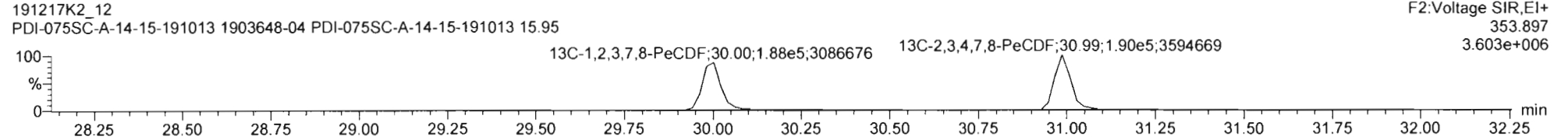
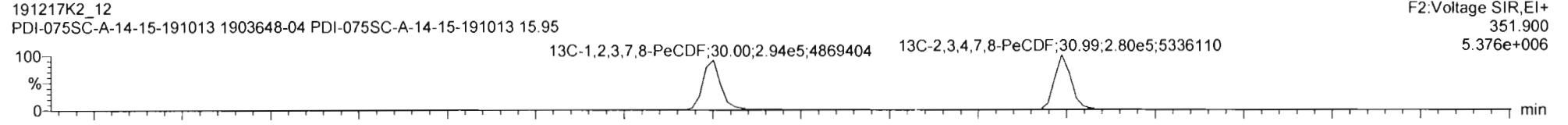


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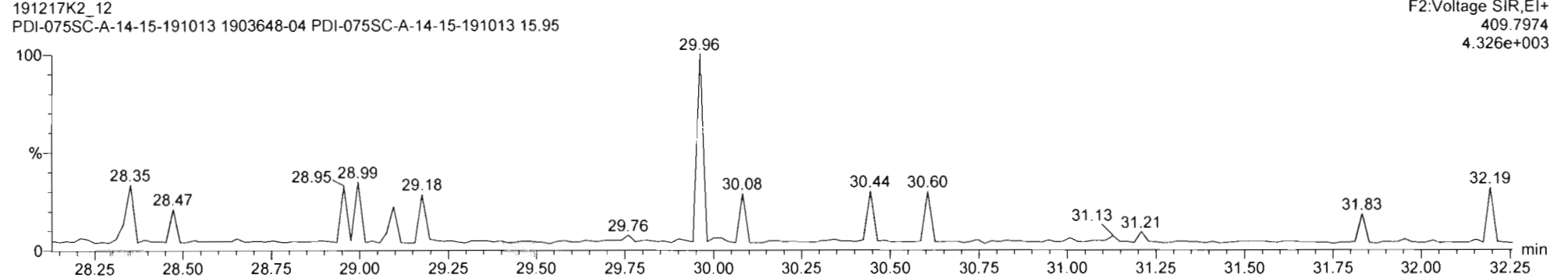
Total Penta-Furans



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

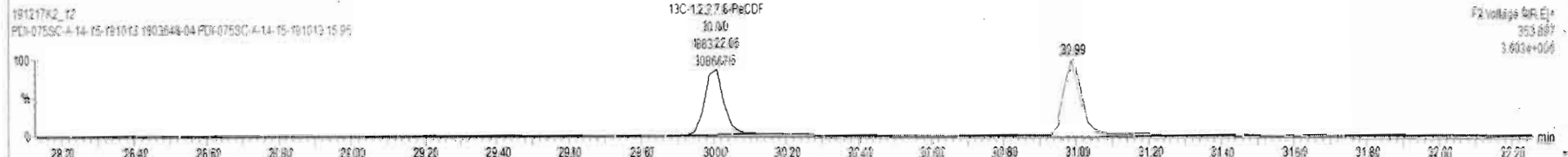
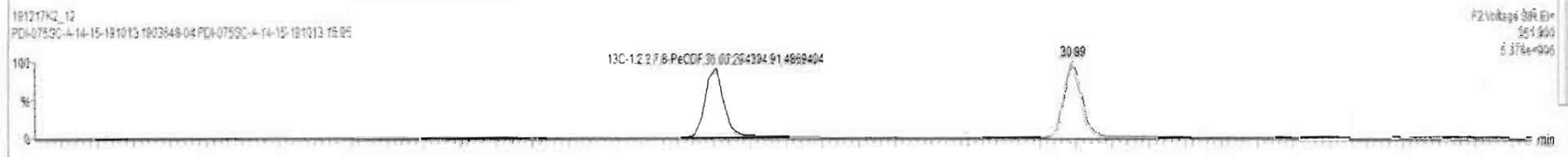
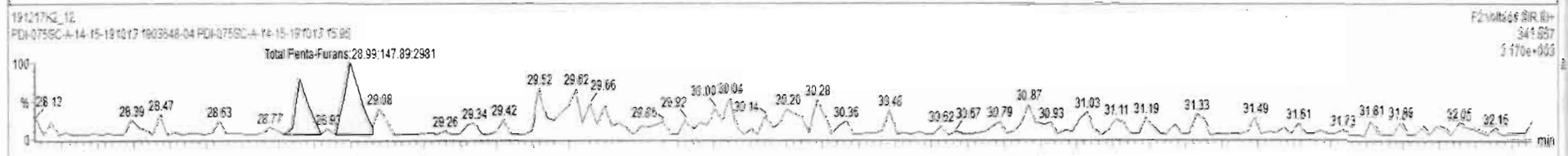
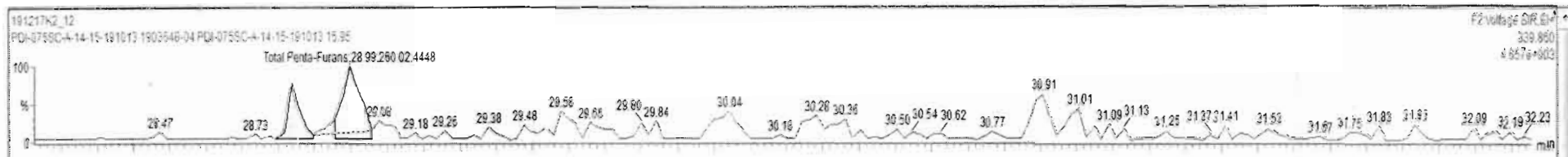


DPE2



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDF	4.90e5	0.80	NO	1.00	10.041	25.47	1.000	199	100	0.469
37	13C-1,2,3,4-TCDF	7.70e5	0.73	NO	1.00	10.041	23.56	1.000	199	100	0.684
38	13C-1,2,3,4,8,9-HxCDF	4.98e5	0.51	NO	1.00	10.041	34.17	1.000	199	100	0.875
39	Total Tetra-Dioxins				0.92	10.041					0.104
40	Total Penta-Dioxins				0.90	10.041					0.0431
41	Total Hexa-Dioxins				0.97	10.041		0.000			0.108
42	Total Hepta-Dioxins				1.04	10.041		2.04			0.282
43	Total Tetra-Furans				0.94	10.041		0.592			0.148
44	1st Func. Penta-Furans				0.98	10.041					0.0127
45	Total Penta-Furans				0.98	10.041		0.271			0.0440
46	Total Hexa-Furans				1.13	10.041					0.0439
47	Total Hepta-Furans				1.13	10.041					0.0450
48	PFK1										

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.99	2.600e2	1.479e2	1.75	NO	0.17482
2	Total Penta-Furans	28.83	1.296e2	9.546e1	1.35	NO	0.096069



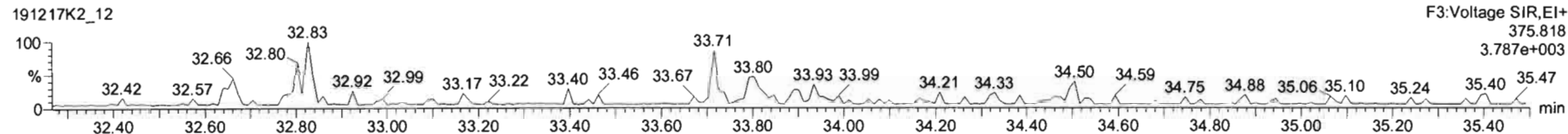
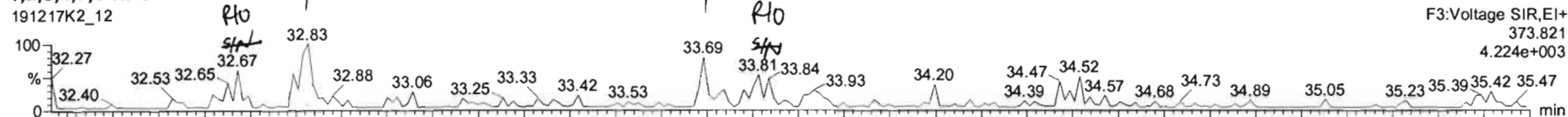
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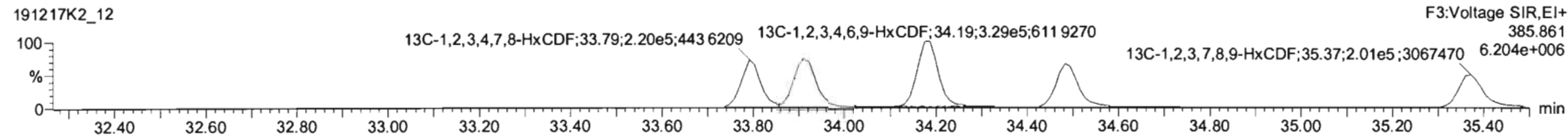
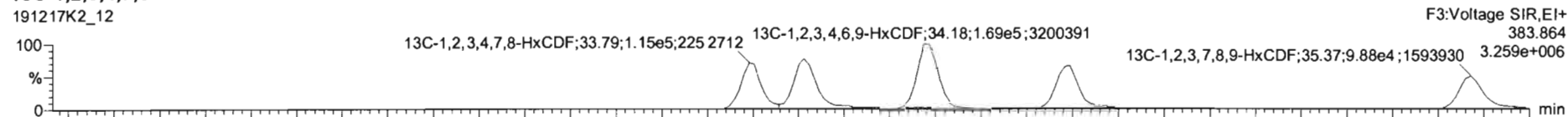
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Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013

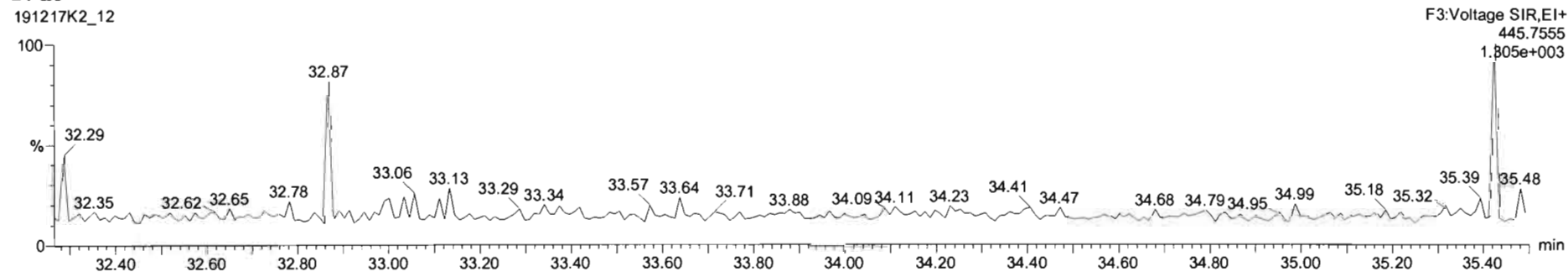
1,2,3,4,7,8-HxCDF



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



DPE3

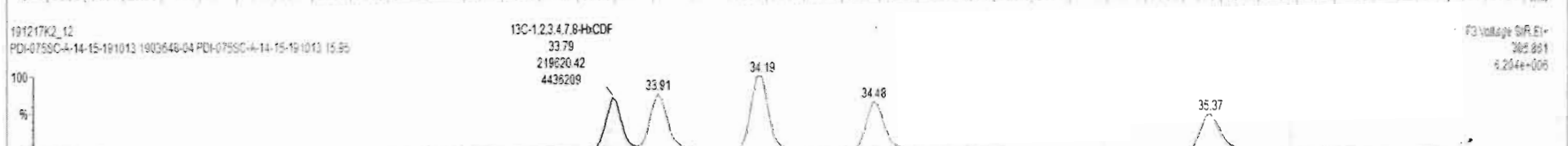
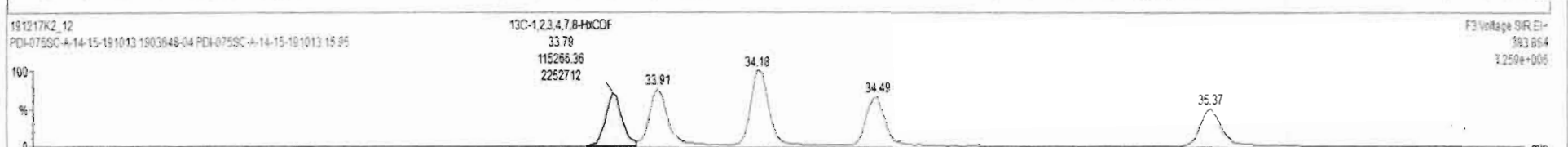
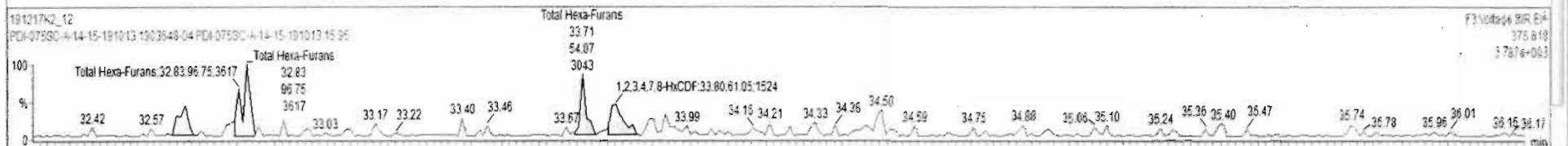
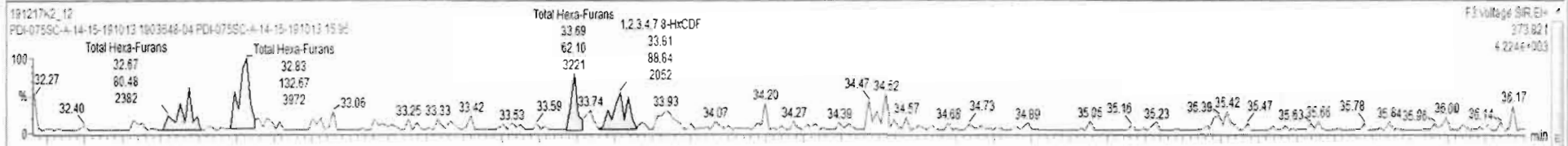




191217K2_12 - 1903648-04 PDI-075SC-A-14-15-191013 15.95 - PDI-075SC-A-14-15-191013

Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	4.90e5	0.89	NO	1.00	10.041	25.47	1.000	199	100	0.489
37	13C-1,2,3,4-TCDF	7.70e5	0.73	NO	1.00	10.041	23.58	1.000	199	100	0.604
38	13C-1,2,3,4,6,8-HxCDF	4.98e5	0.51	NO	1.00	10.041	34.17	1.000	199	100	0.875
39	Total Tetra-Dioxins				0.92	10.041					0.104
40	Total Penta-Dioxins				0.90	10.041					0.0431
41	Total Hexa-Dioxins				0.97	10.041		0.000		0.108	0.773
42	Total Hepta-Dioxins				1.04	10.041		2.84		0.282	2.84
43	Total Tetra-Furans				0.94	10.041		0.592		0.146	0.582
44	1st Func. Penta-Furans				0.98	10.041					0.0127
45	Total Penta-Furans				0.98	10.041		0.271		0.0440	0.271
46	Total Hexa-Furans				1.18	10.041		0.188		0.0439	0.281
47	Total Hepta-Furans				1.13	10.041					0.0450
48	PFK1										

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	1,2,3,4,7,8-HxCDF	33.61	8.884e1	6.195e1	1.48	YES	0.085411 0.00000
2	Total Hexa-Furans	32.87	8.048e1	4.347e1	1.85	YES	0.047496 0.00000
3	Total Hexa-Furans	32.83	1.327e2	5.675e1	1.37	NO	0.11170 0.11170
4	Total Hexa-Furans	33.88	6.210e1	5.407e1	1.15	NO	0.056561 0.056561



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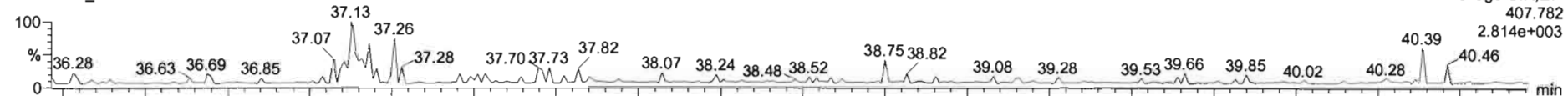
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

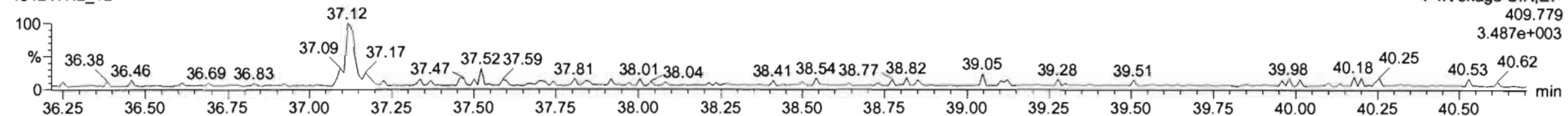
Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013

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

191217K2_12

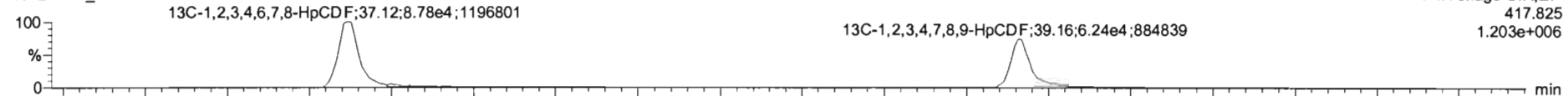


191217K2_12

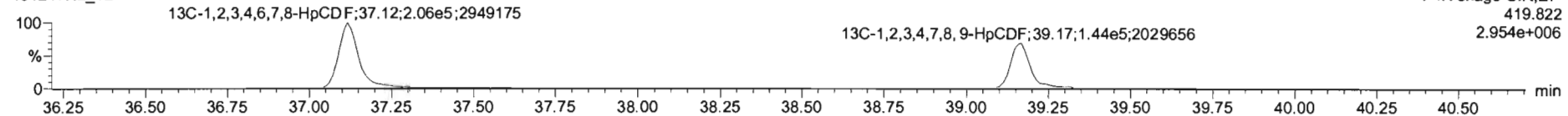


13C-1,2,3,4,6,7,8-HpCDF

191217K2_12

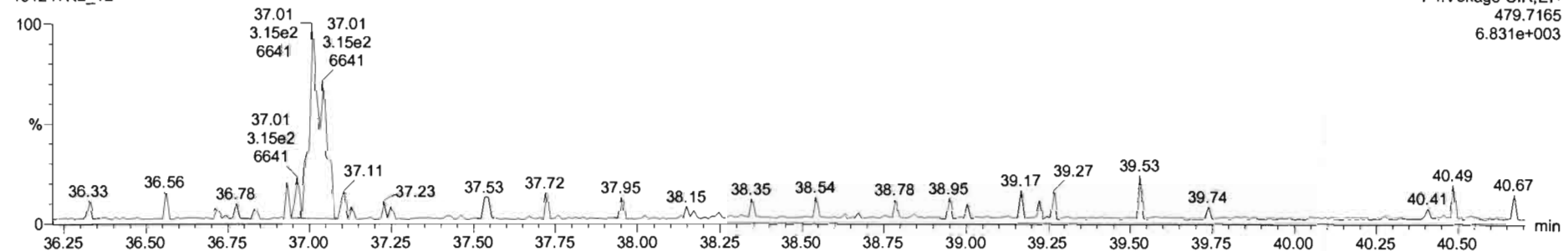


191217K2_12



DPE4

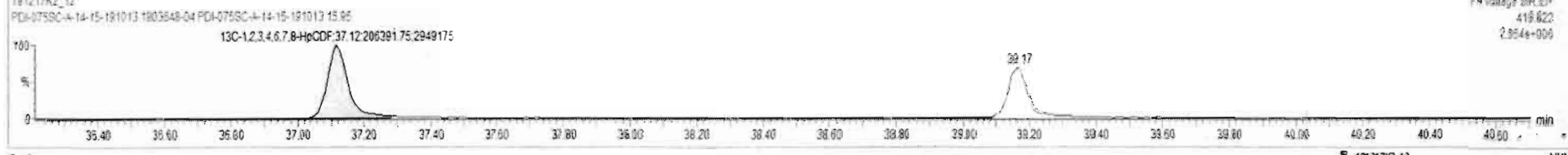
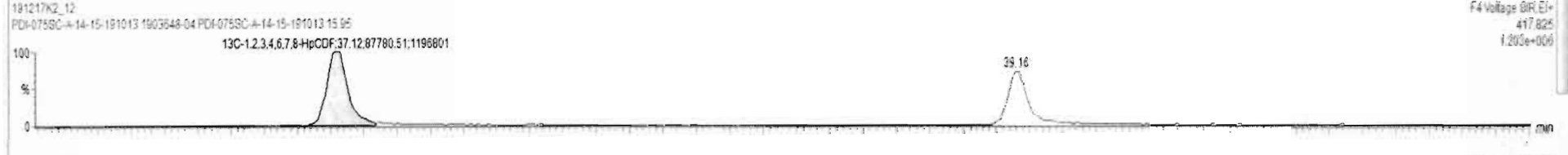
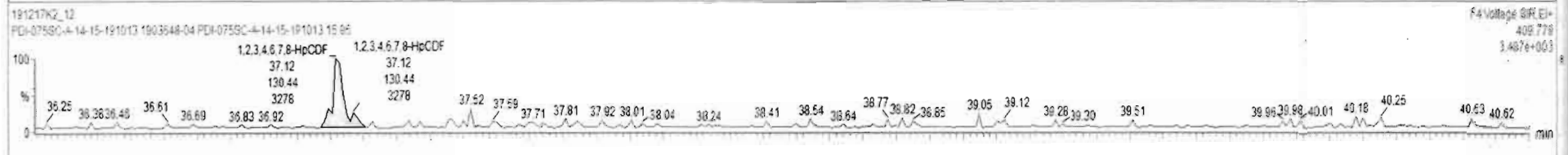
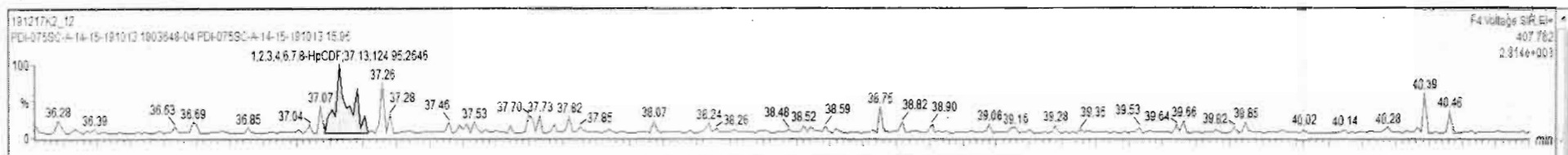
191217K2_12



191217K2_12 - 1903648-04 PDI-075SC-A-14-15-191013 15.95 - PDI-075SC-A-14-15-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
36 13C-1,2,3,4-TCDF	4.96e5	0.86	NO	1.00	10.041	25.47	1.000	199	100	0.469	
37 13C-1,2,3,4-TCDF	7.70e5	0.73	NO	1.00	10.041	23.58	1.000	199	100	0.604	
38 13C-1,2,3,4,6,8-HxCDF	4.96e5	0.51	NO	1.00	10.041	34.17	1.000	199	100	0.875	
39 Total Tetra-Dioxins				0.92	10.041					0.104	
40 Total Penta-Dioxins				0.90	10.041					0.0431	
41 Total Hexa-Dioxins				0.97	10.041			0.090		0.108	0.773
42 Total Hepta-Dioxins				1.04	10.041			2.84		0.262	2.64
43 Total Tetra-Furans				0.94	10.041			0.592		0.148	0.592
44 1st Func. Penta-Furans				0.98	10.041					0.0127	
45 Total Penta-Furans				0.98	10.041			0.271		0.0440	0.271
46 Total Hexa-Furans				1.18	10.041			0.168		0.0439	0.281
47 Total Hepta-Furans				1.12	10.041			0.153		0.0450	0.153
48 PPK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.12	1.249e2	1.304e2	0.95	NO	0.15303	0.15303



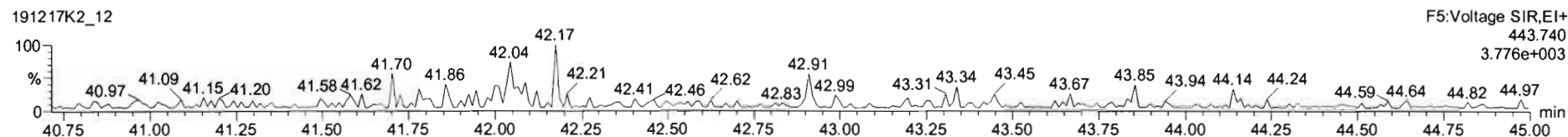
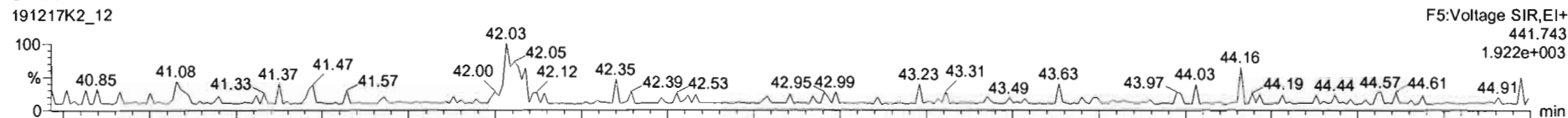
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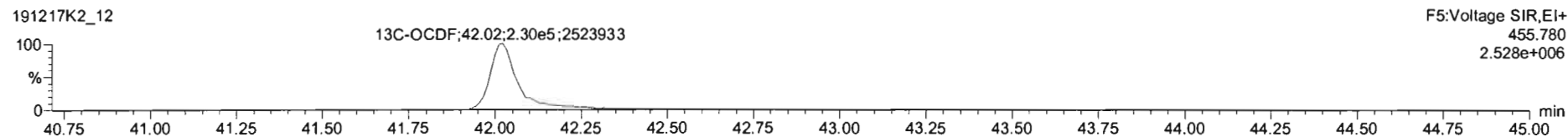
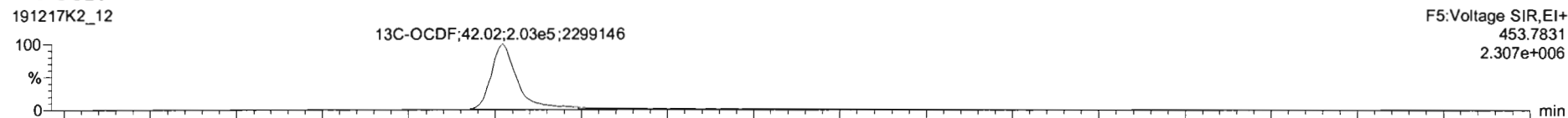
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013

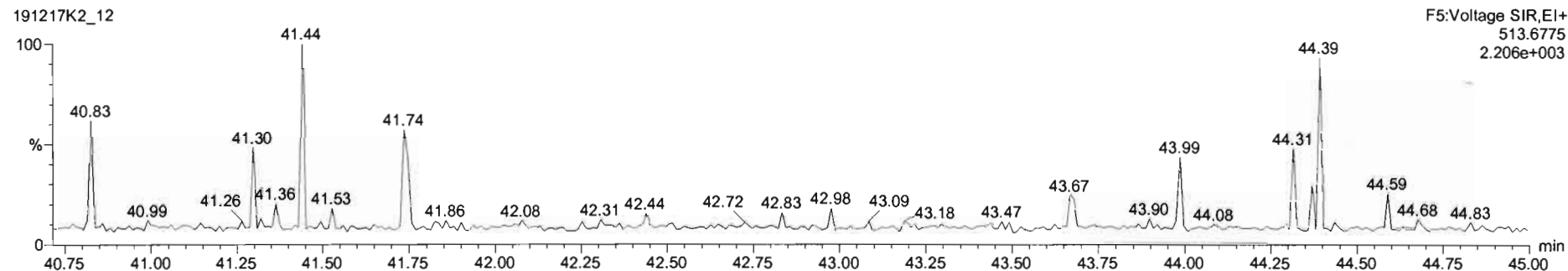
OCDF



13C-OCDF



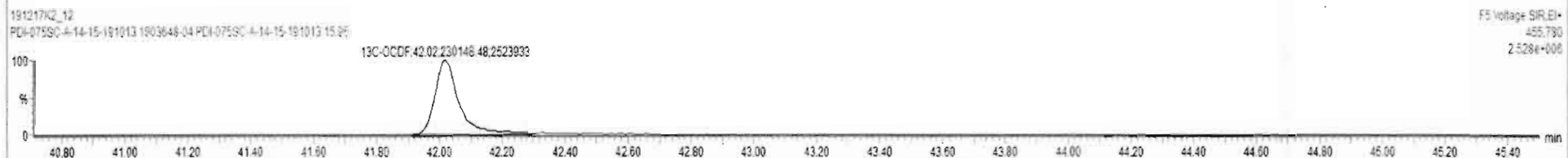
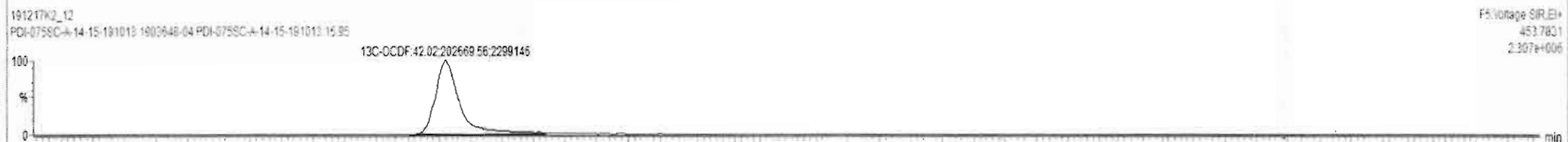
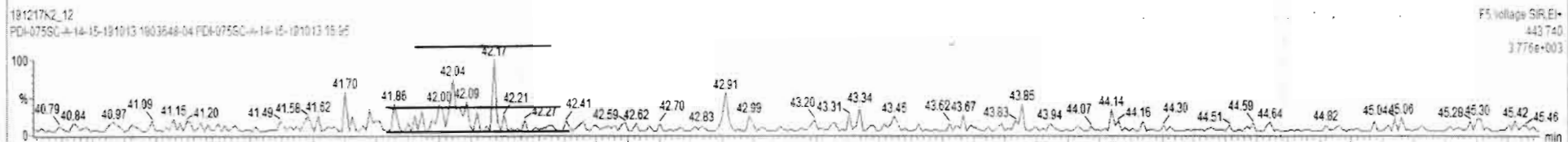
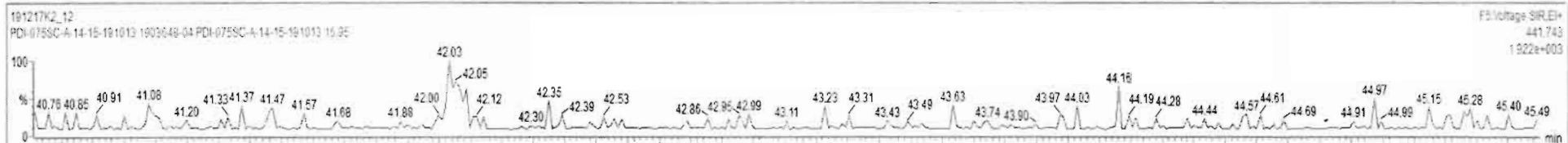
DPE5



191217K2_12 - 1903648-04 PDI-075SC-A-14-15-191013 15.95 - PDI-075SC-A-14-15-191013

Name	Resp	RA	nly	RRF	wt/wot	RT	RRT	Conc	%Rec	DL	EMPC
8	2,3,7,8-TCDF			0.94	10.041					0.148	
9	1,2,3,7,8-PeCDF			0.98	10.041					0.0858	
10	2,3,4,7,8-PeCDF			1.00	10.041					0.0741	
11	1,2,3,4,7,8-HxCDF	1.50e2	1.46	YES	1.24	10.041	33.81	1.001	0.0717	0.0390	0.0854
12	1,2,3,6,7,8-HxCDF				1.10	10.041				0.0827	
13	2,3,4,6,7,8-HxCDF				1.18	10.041				0.0888	
14	1,2,3,7,8,9-HxCDF				1.07	10.041				0.124	
15	1,2,3,4,6,7,8-HpCDF	2.55e2	0.96	NO	1.13	10.041	37.13	1.000	0.153	0.0391	0.163
16	1,2,3,4,7,8,9-HpCDF				1.26	10.041				0.105	
17	OCDF				1.10	10.041				0.170	
18	13C-2,3,7,8-TCDD	4.26e5	0.78	NO	1.05	10.041	26.15	1.027	166	83.5	0.447
19	13C-1,2,3,7,8-PeCDD	3.30e5	0.60	NO	0.74	10.041	31.31	1.229	181	90.6	0.448
20	13C-1,2,3,4,7,8-HxCDD	2.21e5	1.24	NO	0.65	10.041	34.66	1.014	137	88.6	0.737

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1							

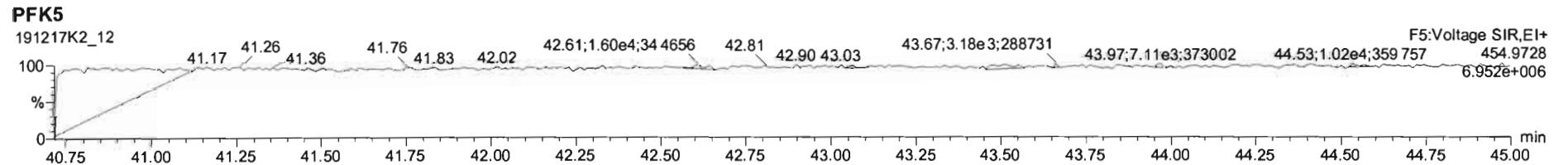
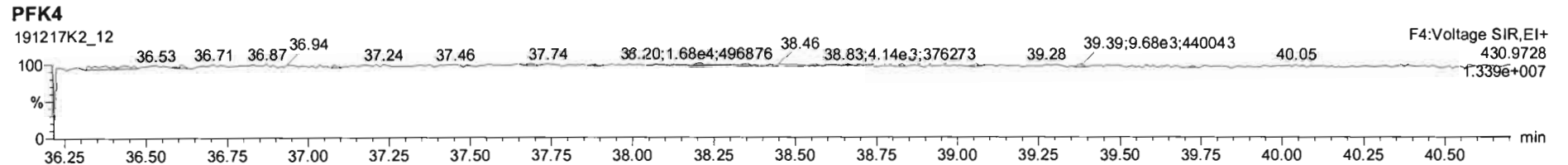
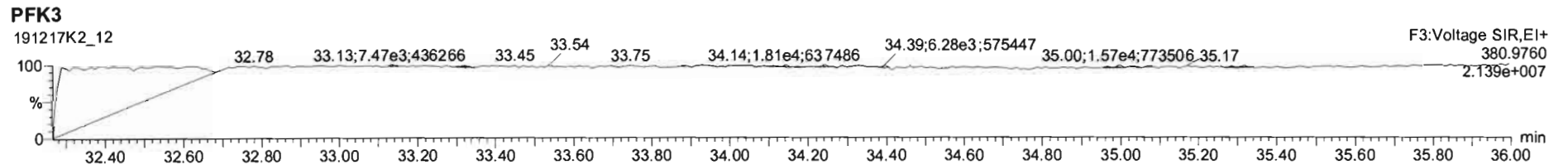
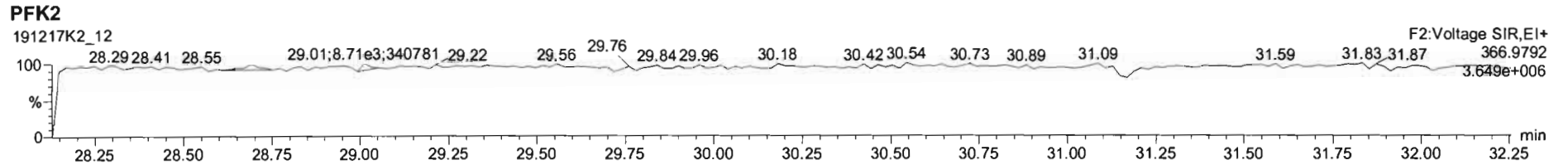
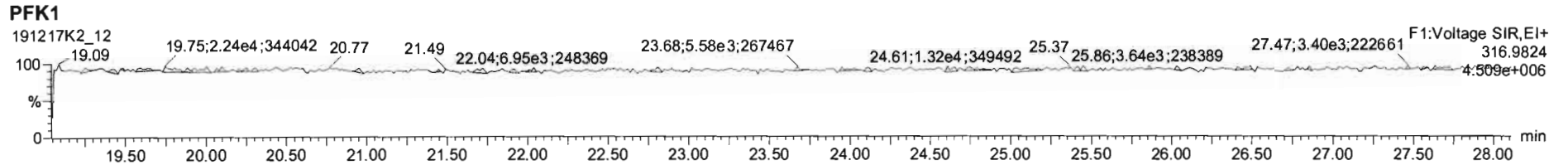


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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_12, Date: 17-Dec-2019, Time: 22:43:08, ID: 1903648-04 PDI-075SC-A-14-15-191013 15.95, Description: PDI-075SC-A-14-15-191013



Dataset: U:\VG11.PRO\Results\191217K2\191217K2-13.qld

Last Altered: Thursday, December 26, 2019 17:17:35 Pacific Standard Time
Printed: Thursday, December 26, 2019 17:19:41 Pacific Standard Time

EL 12/26/19

CT 12/27/19

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57
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Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.925	10.039	26.18		1.00		YES			0.158	
2	2 1,2,3,7,8-PeCDD				0.905	10.039	31.33		1.00		YES			0.107	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.039	34.67		1.00		YES			0.157	
4	4 1,2,3,6,7,8-HxCDD				0.967	10.039	34.76		1.00		YES			0.156	
5	5 1,2,3,7,8,9-HxCDD				0.978	10.039	35.07		1.00		YES			0.178	
6	6 1,2,3,4,6,7,8-HpCDD	6173.484	1.005	NO	1.04	10.039	38.55	38.56	1.00	1.00	NO	4.232		0.252	4.232
7	7 OCDD	50522.912	0.866	NO	0.972	10.039	41.81	41.82	1.00	1.00	NO	45.63		0.849	45.63
8	8 2,3,7,8-TCDF	2315.966	0.897	YES	0.938	10.039	25.20	25.20	1.00	1.00	NO	0.5852		0.148	0.5460
9	9 1,2,3,7,8-PeCDF	2256.237	1.875	YES	0.976	10.039	30.02	30.02	1.00	1.00	NO	0.7185		0.116	0.6382
10	10 2,3,4,7,8-PeCDF	871.567	2.150	YES	1.00	10.039	31.00	31.01	1.00	1.00	NO	0.2775		0.0985	0.2247
11	11 1,2,3,4,7,8-HxCDF	2605.353	1.188	NO	1.24	10.039	33.79	33.81	1.00	1.00	NO	0.9706		0.0557	0.9706
12	12 1,2,3,6,7,8-HxCDF	776.061	1.384	NO	1.10	10.039	33.92	33.93	1.00	1.00	NO	0.2677		0.0591	0.2677
13	13 2,3,4,6,7,8-HxCDF	420.722	1.090	NO	1.18	10.039	34.52	34.48	1.00	1.00	NO	0.1496		0.0601	0.1496
14	14 1,2,3,7,8,9-HxCDF				1.07	10.039	35.37		1.00		YES			0.0859	
15	15 1,2,3,4,6,7,8-HpCDF	3024.938	1.112	NO	1.13	10.039	37.15	37.13	1.00	1.00	NO	1.308		0.0748	1.308
16	16 1,2,3,4,7,8,9-HpCDF				1.26	10.039	39.16		1.00		YES			0.0999	
17	17 OCDF	2997.454	0.957	NO	1.10	10.039	42.01	42.04	1.00	1.00	NO	1.800		0.161	1.800
18	18 13C-2,3,7,8-TCDD	574036.141	0.815	NO	1.05	10.039	26.16	26.15	1.03	1.03	NO	192.0	96.4	0.406	
19	19 13C-1,2,3,7,8-PeCDD	441303.813	0.608	NO	0.743	10.039	31.31	31.31	1.23	1.23	NO	208.4	105	0.532	
20	20 13C-1,2,3,4,7,8-HxCDD	292752.399	1.291	NO	0.646	10.039	34.65	34.66	1.01	1.01	NO	151.2	75.9	0.665	
21	21 13C-1,2,3,6,7,8-HxCDD	381691.672	1.307	NO	0.777	10.039	34.75	34.76	1.02	1.02	NO	164.0	82.3	0.553	
22	22 13C-1,2,3,7,8,9-HxCDD	316278.625	1.239	NO	0.659	10.039	35.02	35.03	1.02	1.03	NO	160.1	80.3	0.652	
23	23 13C-1,2,3,4,6,7,8-HpCDD	280152.797	1.048	NO	0.534	10.039	38.52	38.54	1.13	1.13	NO	175.1	87.9	1.02	
24	24 13C-OCDD	453977.766	0.878	NO	0.470	10.039	41.80	41.81	1.22	1.22	NO	322.2	80.9	0.992	
25	25 13C-2,3,7,8-TCDF	840966.625	0.722	NO	0.977	10.039	25.17	25.17	0.99	0.99	NO	185.4	93.0	0.515	
26	26 13C-1,2,3,7,8-PeCDF	639949.376	1.580	NO	0.778	10.039	30.00	30.00	1.18	1.18	NO	177.3	89.0	0.875	
27	27 13C-2,3,4,7,8-PeCDF	622690.172	1.520	NO	0.750	10.039	30.99	30.99	1.22	1.22	NO	178.9	89.8	0.908	
28	28 13C-1,2,3,4,7,8-HxCDF	430099.594	0.533	NO	0.845	10.039	33.79	33.79	0.99	0.99	NO	169.9	85.3	0.889	
29	29 13C-1,2,3,6,7,8-HxCDF	527380.672	0.535	NO	1.03	10.039	33.90	33.91	0.99	0.99	NO	171.5	86.1	0.732	
30	30 13C-2,3,4,6,7,8-HxCDF	474511.734	0.547	NO	0.893	10.039	34.48	34.48	1.01	1.01	NO	177.4	89.0	0.841	
31	31 13C-1,2,3,7,8,9-HxCDF	404070.390	0.506	NO	0.734	10.039	35.38	35.37	1.04	1.03	NO	183.7	92.2	1.02	

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-13.qld

Last Altered: Thursday, December 26, 2019 17:17:35 Pacific Standard Time
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Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	407675.438	0.431	NO	0.754	10.039	37.09	37.12	1.09	1.09	NO	180.4	90.6	0.750	
33	33 13C-1,2,3,4,7,8,9-HpCDF	284911.875	0.416	NO	0.539	10.039	39.12	39.16	1.14	1.15	NO	176.4	88.6	1.05	
34	34 13C-OCDF	601927.813	0.914	NO	0.593	10.039	41.99	42.01	1.23	1.23	NO	339.1	85.1	0.807	
35	35 37Cl-2,3,7,8-TCDD	246360.250			1.07	10.039	26.18	26.18	1.03	1.03	NO	80.81	101	0.109	
36	36 13C-1,2,3,4-TCDD	567924.938	0.789	NO	1.00	10.039	25.45	25.47	1.00	1.00	NO	199.2	100	0.425	
37	37 13C-1,2,3,4-TCDF	924699.126	0.724	NO	1.00	10.039	23.55	23.57	1.00	1.00	NO	199.2	100	0.503	
38	38 13C-1,2,3,4,6,9-HxCDF	596876.672	0.517	NO	1.00	10.039	34.16	34.17	1.00	1.00	NO	199.2	100	0.751	
39	39 Total Tetra-Dioxins				0.925	10.039	24.62		0.00		NO			0.102	
40	40 Total Penta-Dioxins				0.905	10.039	29.96		0.00		NO			0.0390	
41	41 Total Hexa-Dioxins				0.967	10.039	33.63		0.00		NO	1.339		0.169	1.881
42	42 Total Hepta-Dioxins				1.04	10.039	38.80		0.00		NO	10.58		0.252	10.58
43	43 Total Tetra-Furans				0.938	10.039	23.61		0.00		NO	1.291		0.148	1.837
44	44 1st Func. Penta-Furans				0.976	10.039	27.04		0.00		NO	0.3936		0.0342	0.3936
45	45 Total Penta-Furans				0.976	10.039	29.27		0.00		NO	0.3430		0.107	1.810
46	46 Total Hexa-Furans				1.18	10.039	33.56		0.00		NO	2.511		0.0622	2.511
47	47 Total Hepta-Furans				1.13	10.039	37.83		0.00		NO	2.938		0.0899	2.938

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-13.qld

Last Altered: Thursday, December 26, 2019 17:17:35 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:19:50 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	2.15e3	0.00e0	1.161	NO	33.63	33.20	1.339	1.339
2	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.635	YES	33.63	33.99	0.0000	0.5413

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	9.26e3	2.80e5	1.005	NO	38.80	37.52	6.348	6.348
2	6 1,2,3,4,6,7,8-HpCDD	6.17e3	2.80e5	1.005	NO	38.55	38.56	4.232	4.232

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	2.55e3	8.41e5	0.800	NO	23.61	20.91	0.6434	0.6434
2	8 2,3,7,8-TCDF	2.32e3	8.41e5	0.897	YES	25.20	25.20	0.0000	0.5460
3	43 Total Tetra-Furans	2.56e3	8.41e5	0.691	NO	23.61	24.15	0.6472	0.6472

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	1.22e3	0.00e0	1.754	NO	27.04	27.34	0.3936	0.3936

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-13.qld

Last Altered: Thursday, December 26, 2019 17:17:35 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:19:50 Pacific Standard Time

Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	8.72e2	6.23e5	2.150	YES	31.00	31.01	0.0000	0.2247
2	45 Total Penta-Furans	1.06e3	0.00e0	1.723	NO	29.27	30.28	0.3430	0.3430
3	9 1,2,3,7,8-PeCDF	2.26e3	6.40e5	1.875	YES	30.02	30.02	0.0000	0.6382
4	45 Total Penta-Furans	0.00e0	0.00e0	1.238	YES	29.27	29.00	0.0000	0.4954
5	45 Total Penta-Furans	0.00e0	0.00e0	0.828	YES	29.27	31.03	0.0000	0.1084

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	4.25e2	0.00e0	1.375	NO	33.56	32.65	0.1563	0.1563
2	13 2,3,4,6,7,8-HxCDF	4.21e2	4.75e5	1.090	NO	34.52	34.48	0.1496	0.1496
3	12 1,2,3,6,7,8-HxCDF	7.76e2	5.27e5	1.384	NO	33.92	33.93	0.2677	0.2677
4	11 1,2,3,4,7,8-HxCDF	2.61e3	4.30e5	1.188	NO	33.79	33.81	0.9706	0.9706
5	46 Total Hexa-Furans	1.36e3	0.00e0	1.175	NO	33.56	33.35	0.4992	0.4992
6	46 Total Hexa-Furans	1.27e3	0.00e0	1.085	NO	33.56	32.80	0.4681	0.4681

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	47 Total Hepta-Furans	3.20e3	0.00e0	1.056	NO	37.83	37.73	1.630	1.630
2	15 1,2,3,4,6,7,8-HpCDF	3.02e3	4.08e5	1.112	NO	37.15	37.13	1.308	1.308

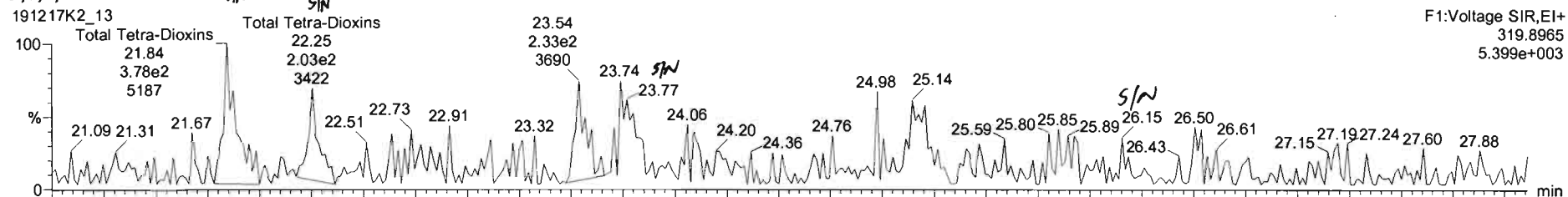
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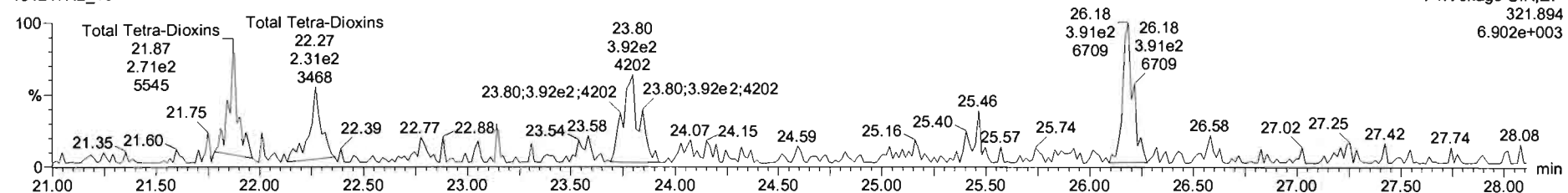
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Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

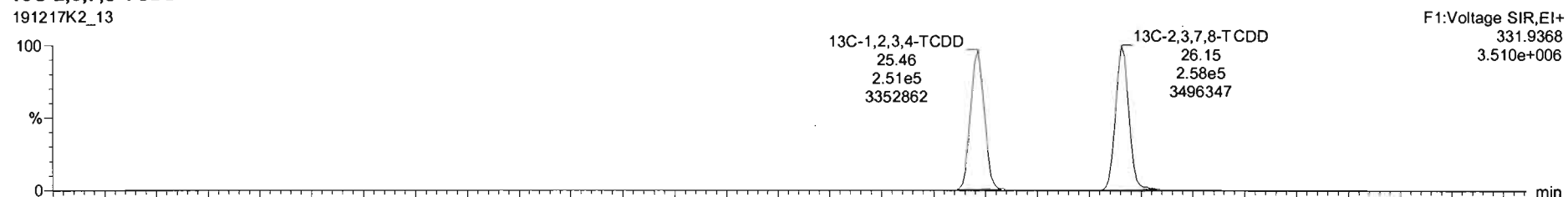
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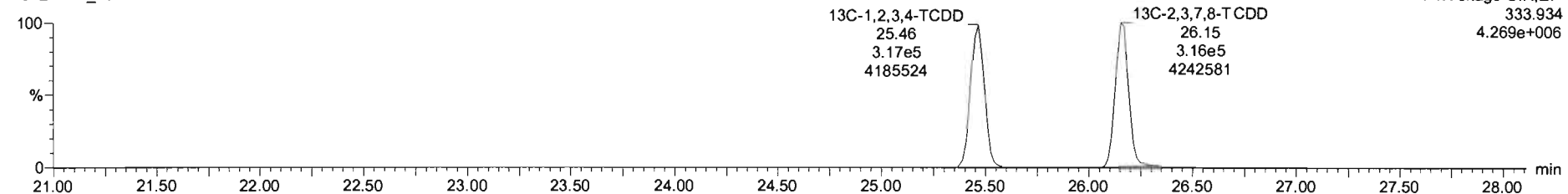
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13C-2,3,7,8-TCDD

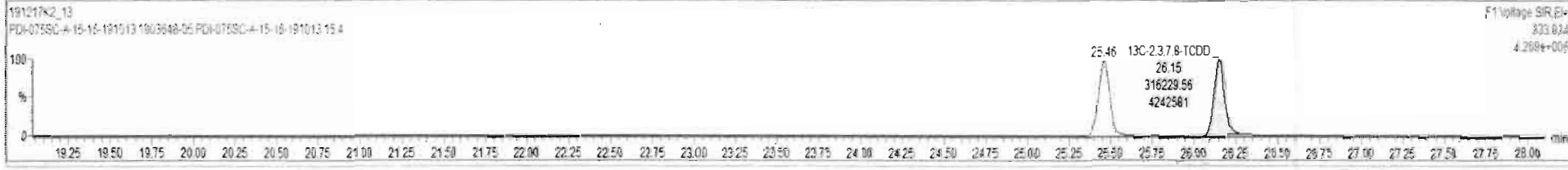
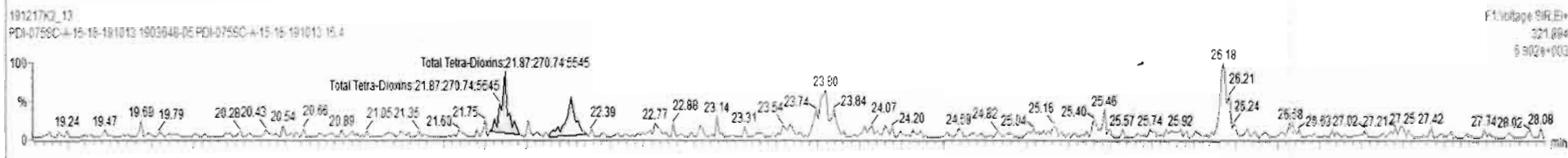
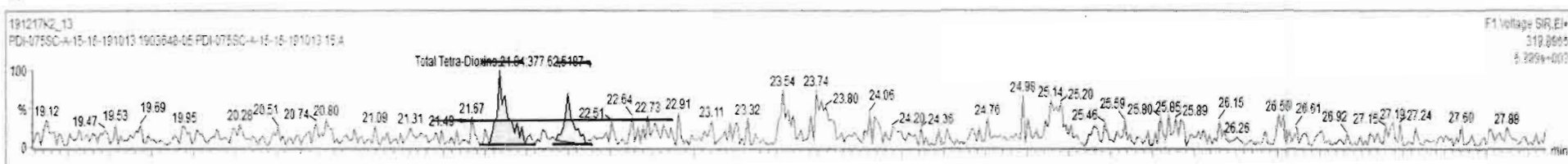


191217K2_13



#	Name	Resp	IS Resp	ISA	RA	n/y	RRF	wt/wt	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flags	No. Sci.	Peaks
36	13C-1,2,3,4-TCDD	5.66e5	5.66e5	36	0.79	NO		10.039	25.45	25.47	1.000	1.000	NO	199.2	100	0.425		bb	NO	
37	13C-1,2,3,4-TCDF	9.25e5	9.25e5	37	0.72	NO		10.039	23.55	23.57	1.000	1.000	NO	199.2	100	0.503		bb	NO	
38	13C-1,2,3,4,6,8-HxCDF	5.97e5	5.97e5	38	0.52	NO		10.039	34.16	34.17	1.000	1.000	NO	199.2	100	0.751		bb	NO	
39	Total Tetra-Dioxins		5.74e5					10.039	24.62			0.000	NO	0.158		0.3438			NO	2
40	Total Penta-Dioxins		4.41e5					10.039	29.96			0.000	NO	0.0000		0.0390	0.1930		NO	1
41	Total Hexa-Dioxins		0.00e0					10.039	33.63			0.000	NO	2.343		0.199	2.043		NO	2
42	Total Hepta-Dioxins		2.90e5					10.039	38.80			0.000	NO	10.65		0.252	16.65		NO	2
43	Total Tetra-Furans		8.41e5					10.039	23.81			0.000	NO	1.317		0.148	2.554		NO	8
44	1st Func. Penta-Furans		0.00e0					10.039	27.04			0.000	NO	0.4613		0.0342	0.4010		NO	1
45	Total Penta-Furans		0.00e0					10.039	29.27			0.000	NO	1.273		0.107	1.919		NO	4
46	Total Hexa-Furans		0.00e0					10.039	33.56			0.000	NO	1.999		0.0622	2.317		NO	5
47	Total Hepta-Furans		0.00e0					10.039	37.83			0.000	NO	2.930		0.0899	2.930		NO	2
48	PK1																			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primer	I ² Det.
1	39 Total Tetra-Dioxins	24.82	21.84	3.77e2	2.707e2	0.770	1.29	YES	0.18000	0.00000	bb	bb
2	39 Total Tetra-Dioxins	24.82	22.25	2.020e2	2.311e2	0.770	0.86	NO	0.16300	0.16288	bb	bb



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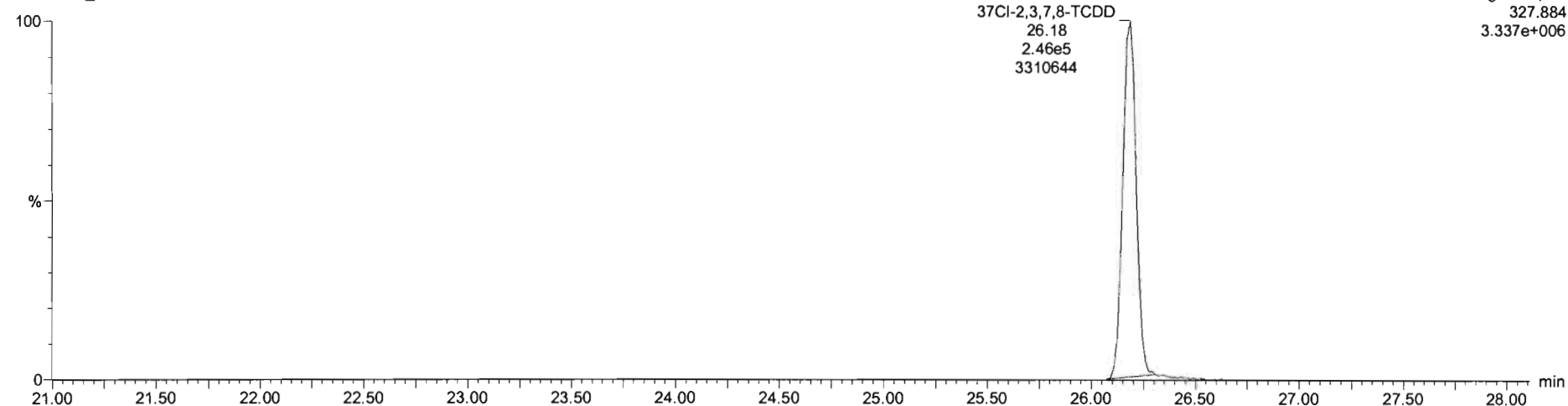
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Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

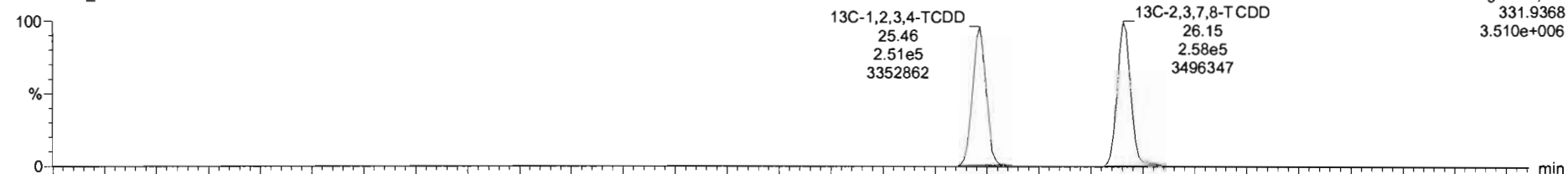
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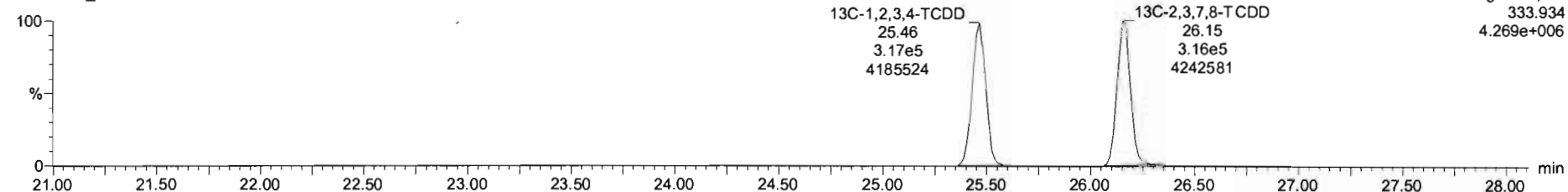


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191217K2_13



191217K2_13

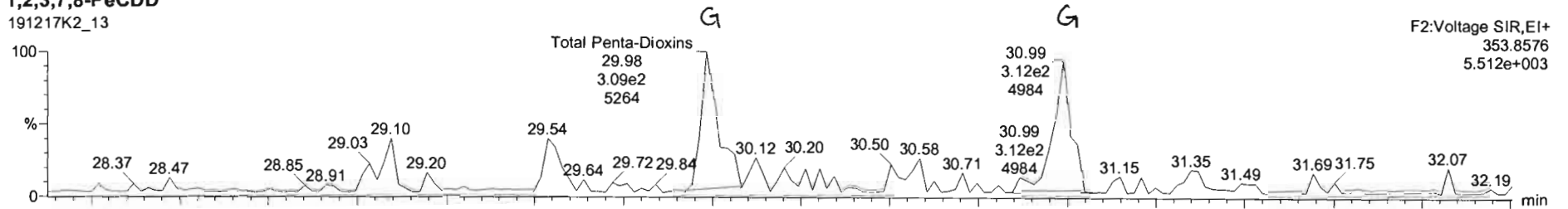


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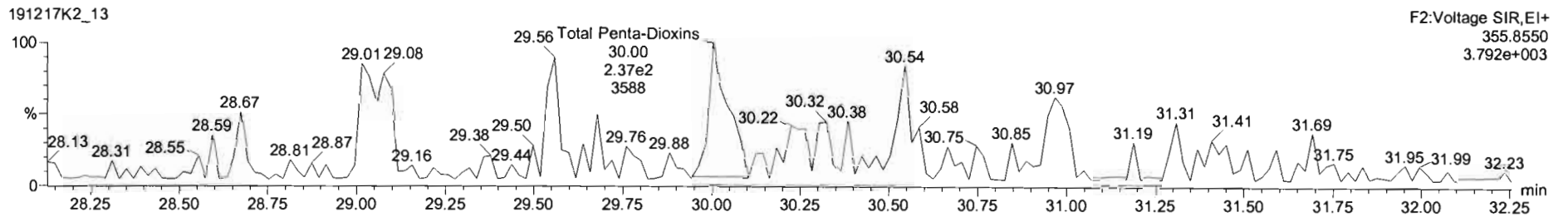
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1,2,3,7,8-PeCDD
191217K2_13



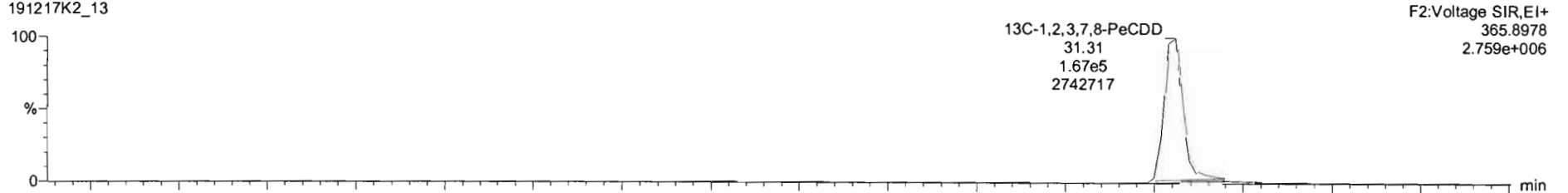
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5.512e+003

191217K2_13



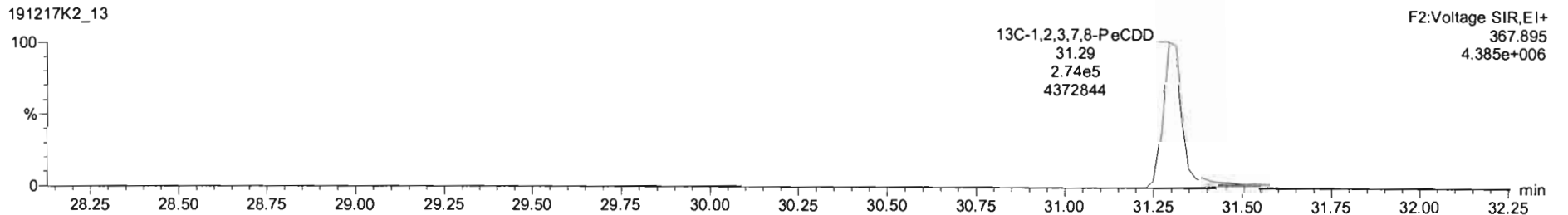
F2:Voltage SIR,EI+
355.8550
3.792e+003

13C-1,2,3,7,8-PeCDD
191217K2_13



F2:Voltage SIR,EI+
365.8978
2.759e+006

191217K2_13



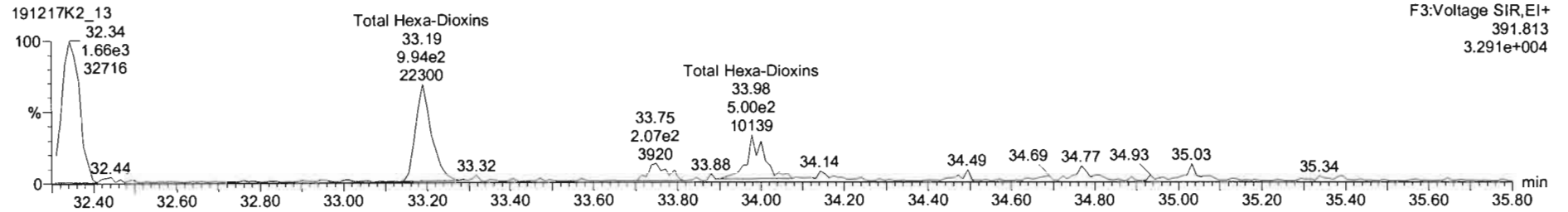
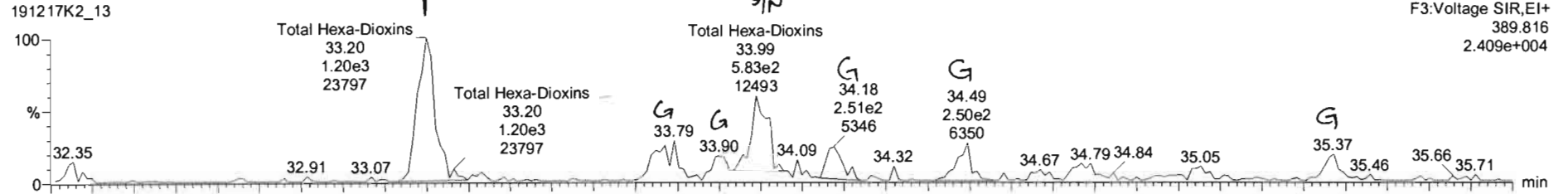
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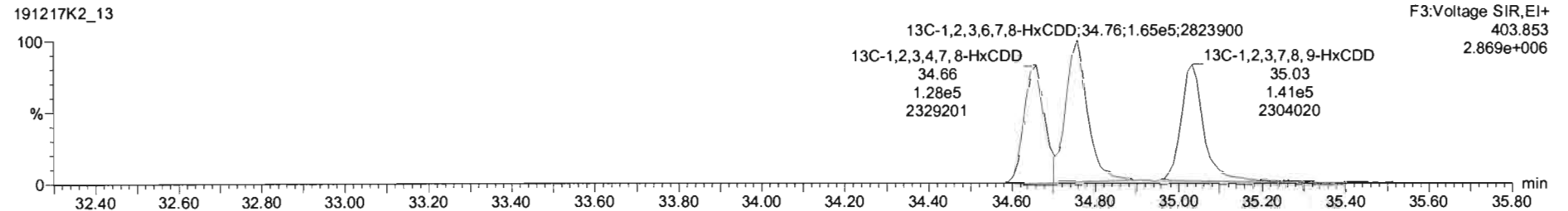
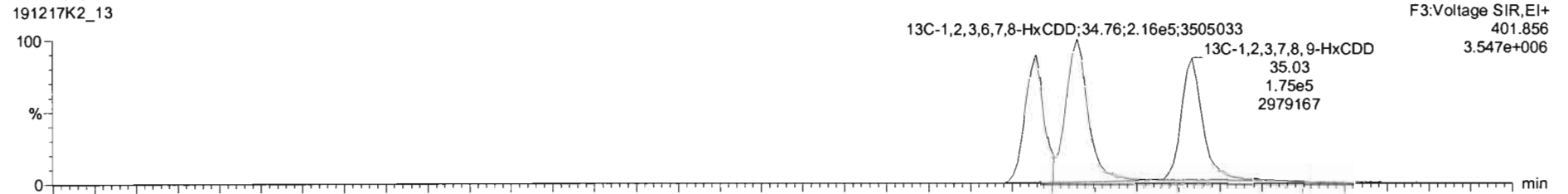
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Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

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



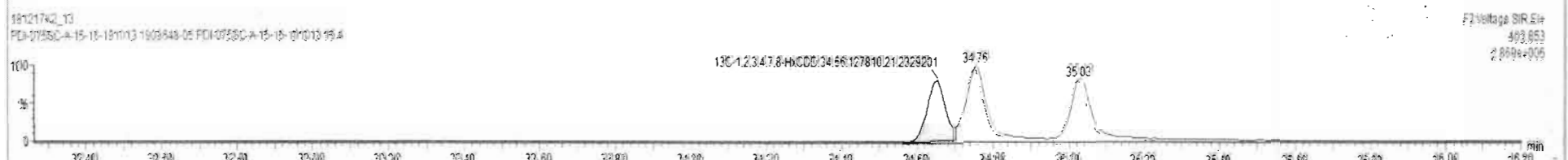
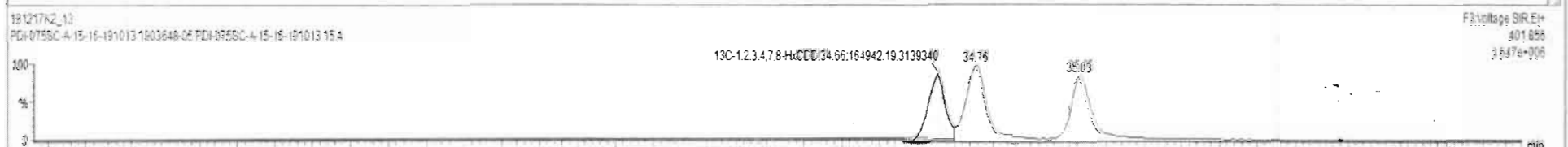
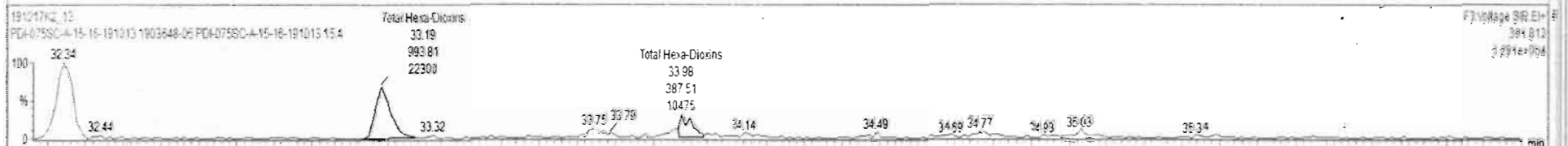
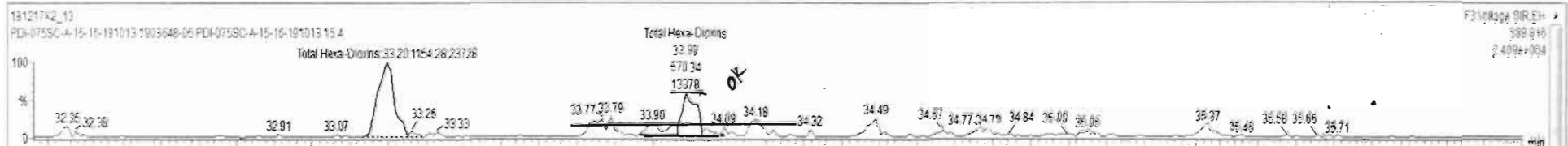
13C-1,2,3,4,7,8-HxCDD



191217K2_13 - 1903648-05 PDI-075SC-A-15-16-191013 15.4 - PDI-075SC-A-15-16-191013

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	w/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	% Rec	DL	EMPC	Primary Flags	No Scl.	Peaks
36	13C-1,2,3,4-TCDD	5.68e5	5.68e5	36	0.79	NO		10.039	25.45	25.47	1.000	1.000	NO	199.2	100	0.425		ab	NO	
37	13C-1,2,3,4-TCDF	9.25e5	9.25e5	37	0.72	NO		10.039	23.55	23.57	1.000	1.000	NO	199.2	100	0.603		ab	NO	
38	13C-1,2,3,4,6,8-HxCDF	5.97e5	5.97e5	38	0.52	NO		10.039	34.16	34.17	1.000	1.000	NO	199.2	100	0.751		ab	NO	
39	Total Tetra-Dioxins	5.74e5						10.039	24.62			0.000	NO			0.102			NO	
40	Total Penta-Dioxins	4.41e5						10.039	29.98			0.000	NO			0.0390			NO	
41	Total Hexa-Dioxins	0.00e0						10.039	33.65			0.000	NO	1.339		0.169	1.881		NO	1
42	Total Hepta-Dioxins	2.80e5						10.039	38.80			0.000	NO	10.85		0.252	10.65		NO	2
43	Total Tetra-Furans	8.41e5						10.039	23.61			0.000	NO	1.317		0.148	2.954		NO	2
44	1st Func. Penta-Furans	0.00e0						10.039	27.04			0.000	NO	0.4013		0.0342	0.4013		NO	1
45	Total Penta-Furans	0.00e0						10.039	29.27			0.000	NO	1.273		0.107	1.619		NO	3
46	Total Hexa-Furans	0.00e0						10.039	33.95			0.000	NO	1.969		0.0922	2.317		NO	3
47	Total Hepta-Furans	0.00e0						10.039	37.83			0.000	NO	2.930		0.0899	2.930		NO	2
48	PFK1																			

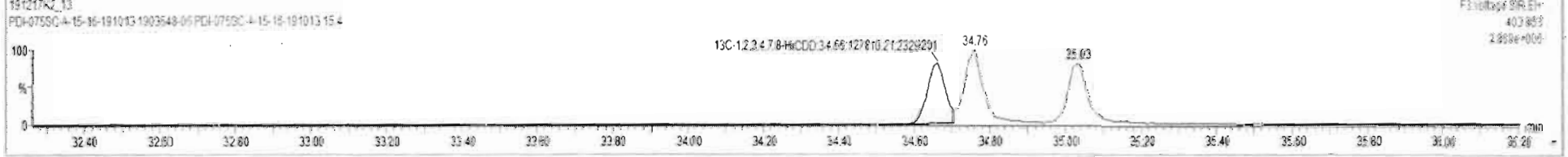
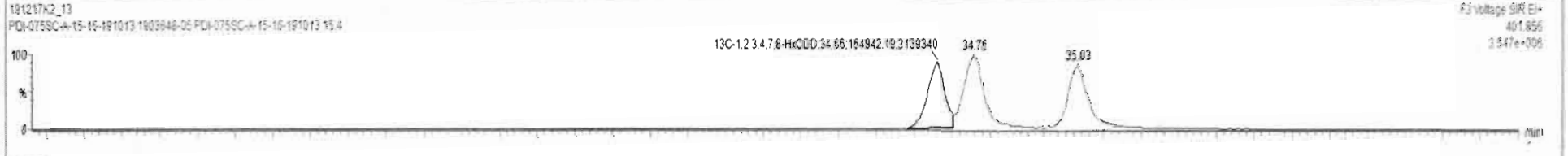
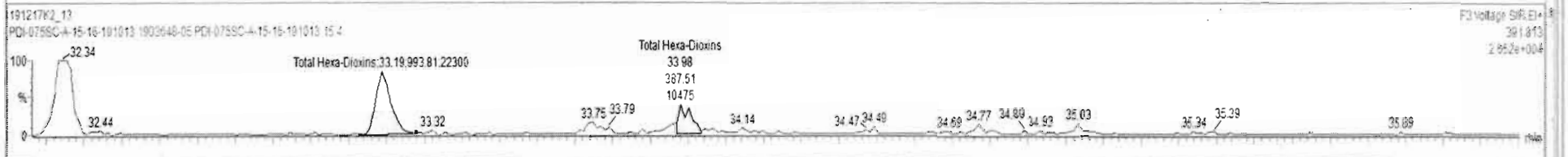
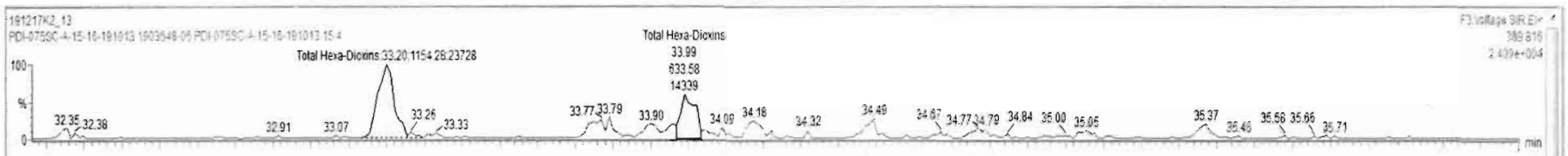
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Prmar	1 st Det.
1	41 Total Hexa-Dioxins	33.63	33.20	1.154e3	9.929e2	1.240	1.16	NO	1.3295	1.3295	100	da
2	41 Total Hexa-Dioxins	33.63	33.89	5.703e2	3.875e2	1.240	1.47	YES	0.54126	0.63000	100	100



191217K2_13 - 1903648-05 PDI-075SC-A-15-16-191013 15.4 - PDI-075SC-A-15-16-191013

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/Vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flags	No Sol.	Peaks
36	13C-1,2,3,4-TCDD	5.88e5	5.88e5	36	0.79	NO	10.039	25.45	25.47	1.000	1.000	NO	NO	199.2	100	0.425		bb	NO	
37	13C-1,2,3,4-TCDF	9.25e5	9.25e5	37	0.72	NO	10.039	23.55	23.57	1.000	1.000	NO	NO	199.2	100	0.503		bb	NO	
38	13C-1,2,3,4,6,9-HxCDF	5.97e5	5.97e5	38	0.52	NO	10.039	34.16	34.17	1.000	1.000	NO	NO	199.2	100	0.751		bb	NO	
39	Total Tetra-Dioxins		5.74e5				10.039	24.62				0.000	NO			0.102			NO	
40	Total Penta-Dioxins		4.41e5				10.039	29.96				0.000	NO			0.0390			NO	
41	Total Hexa-Dioxins		0.00e0				10.039	33.63				0.000	NO	1.339		0.169	1.881		NO	1
42	Total Hepta-Dioxins		2.80e5				10.039	38.80				0.000	NO	10.85		0.262	10.85		NO	2
43	Total Tetra-Furans		8.41e5				10.039	23.61				0.000	NO	1.317		0.148	2.554		NO	2
44	1st Func. Penta-Furans		0.00e0				10.039	27.04				0.000	NO	0.4013		0.0342	0.4013		NO	1
45	Total Penta-Furans		0.00e0				10.039	29.27				0.000	NO	1.273		0.107	1.919		NO	3
46	Total Hexa-Furans		0.00e0				10.039	33.56				0.000	NO	1.969		0.0622	2.317		NO	3
47	Total Hepta-Furans		0.00e0				10.039	37.83				0.000	NO	2.930		0.0890	2.930		NO	2
48	PFK1																			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc	Primer	1° Det.
1	Total Hexa-Dioxins	33.63	33.20	1.154e3	8.938e2	1.240	1.16	NO	1.3395	1.3395	MM	bb
2	Total Hexa-Dioxins	33.63	33.99	6.336e2	3.875e2	1.240	1.63	YES	0.54126	0.00000	MM	MM



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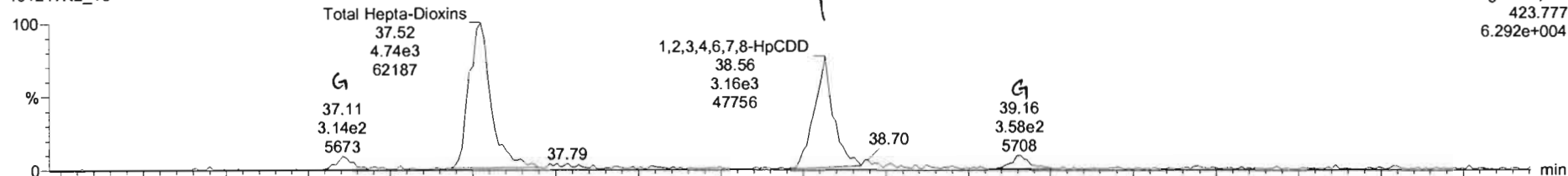
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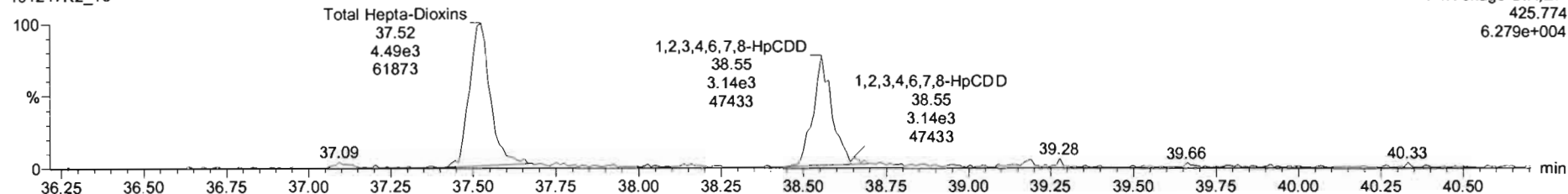
Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

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

191217K2_13

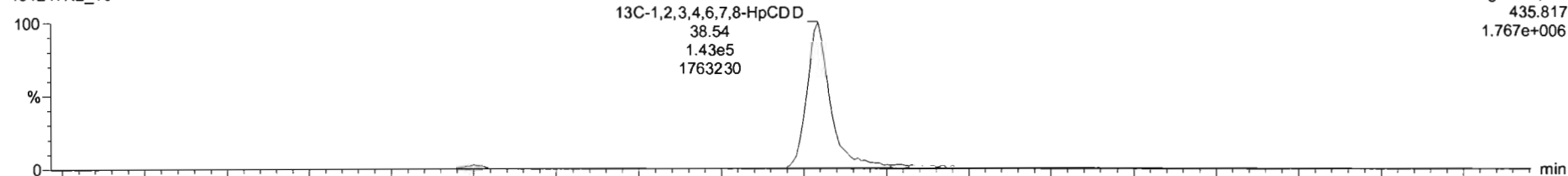


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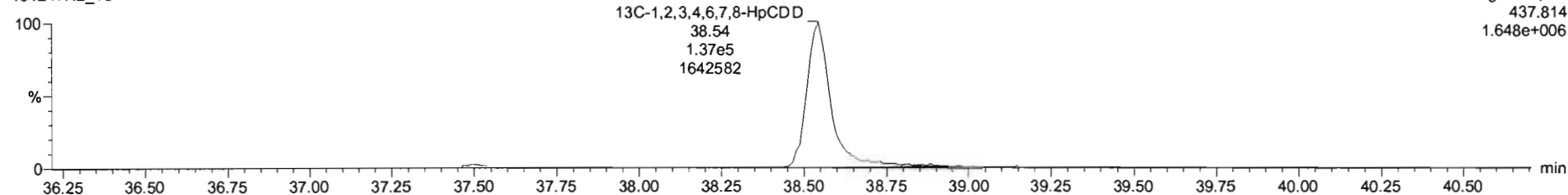


13C-1,2,3,4,6,7,8-HpCDD

191217K2_13

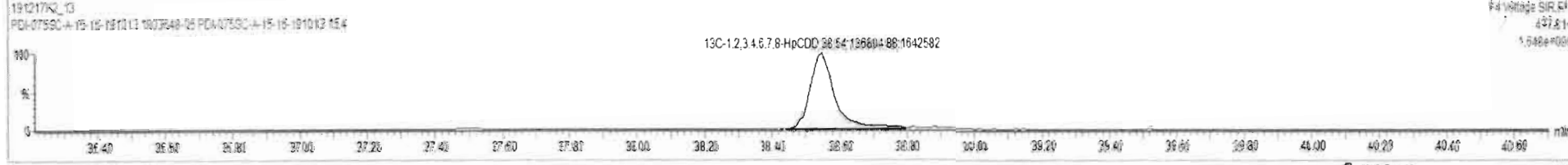
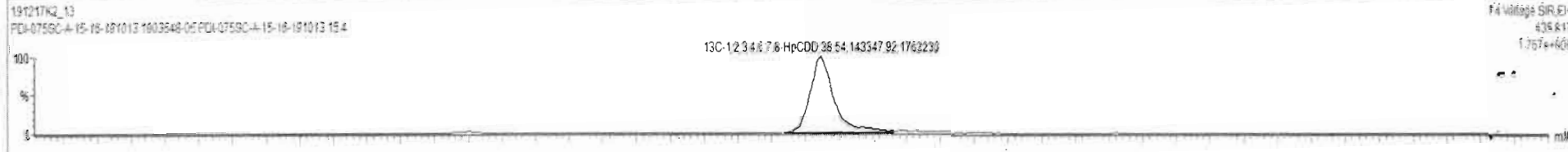
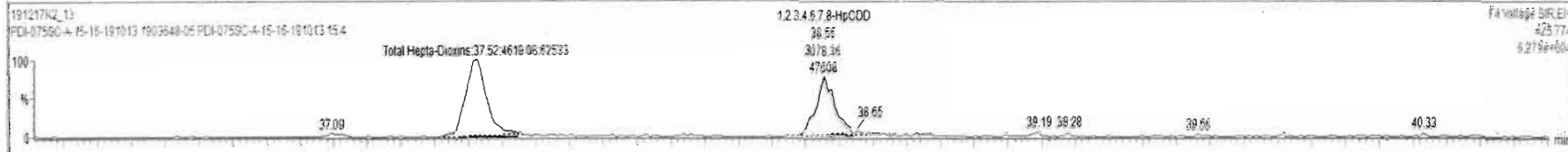
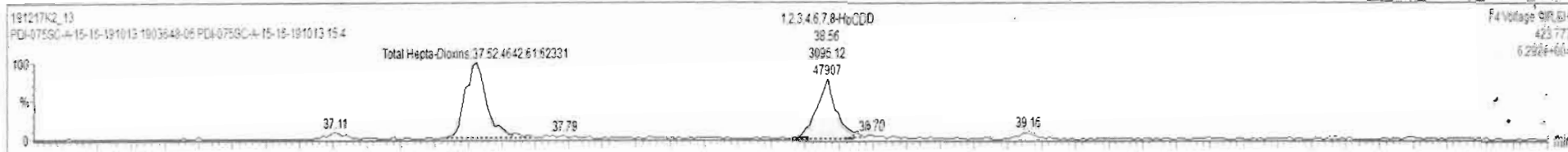


191217K2_13



#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wbVol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC	Primary Flags	No Sel	Peaks
36	36 13C-1,2,3,4-TCDD	5.88e5	5.88e5	36	0.79	NO		10.039	25.45	25.47	1.000	1.000	NO	199.2	100	0.426		ob	NO	
37	37 13C-1,2,3,4-TCDF	9.25e5	9.25e5	37	0.72	NO		10.039	23.55	23.57	1.000	1.000	NO	199.2	100	0.503		ob	NO	
38	38 13C-1,2,3,4,6,8-HxCDF	5.97e5	5.97e5	38	0.52	NO		10.039	34.16	34.17	1.000	1.000	NO	199.2	100	0.751		ob	NO	
39	39 Total Tetra-Dioxins		5.74e5					10.039	24.62			0.000	NO			0.102			NO	
40	40 Total Penta-Dioxins		4.41e5					10.039	29.99			0.000	NO			0.0390			NO	
41	41 Total Hexa-Dioxins		0.00e0					10.039	33.83			0.000	NO	1.339		0.169	1.861		NO	1
42	42 Total Hepta-Dioxins		2.80e5					10.039	38.80			0.000	NO	10.58		0.252	16.58		NO	2
43	43 Total Tetra-Furans		8.41e5					10.039	23.61			0.000	NO	1.317		0.148	2.554		NO	2
44	44 1st Func. Penta-Furans		0.00e0					10.039	27.04			0.000	NO	0.4013		0.0342	0.4013		NO	1
45	45 Total Penta-Furans		0.00e0					10.039	29.27			0.000	NO	1.273		0.107	1.919		NO	3
46	46 Total Hexa-Furans		0.00e0					10.039	33.56			0.000	NO	1.969		0.0822	2.317		NO	3
47	47 Total Hepta-Furans		0.00e0					10.039	37.83			0.000	NO	2.930		0.0899	2.930		NO	2
48	48 PPK1																			

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.	Primar.	1st Det.
1	42 Total Hepta-Dioxins	38.80	37.52	4.643e3	4.619e3	1.040	1.01	NO	6.3483	6.3483	MM	MM
2	6 1,2,3,4,6,7,8-HpCDD	38.55	38.56	3.095e3	3.078e3	1.040	1.01	NO	4.2315	4.2315	MM	MM



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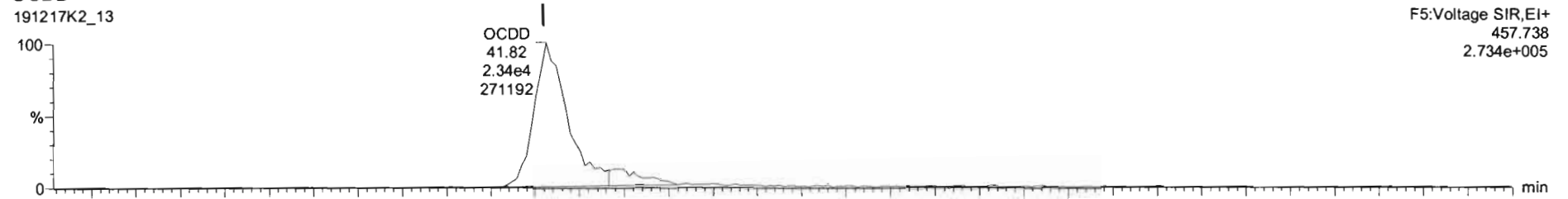
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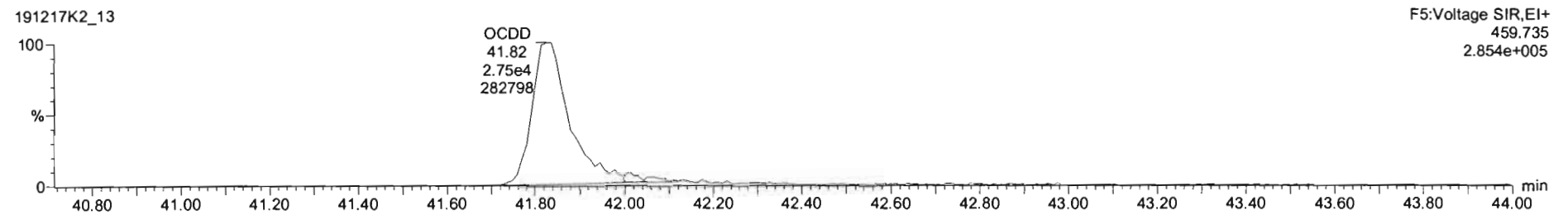
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OCDD

191217K2_13



191217K2_13

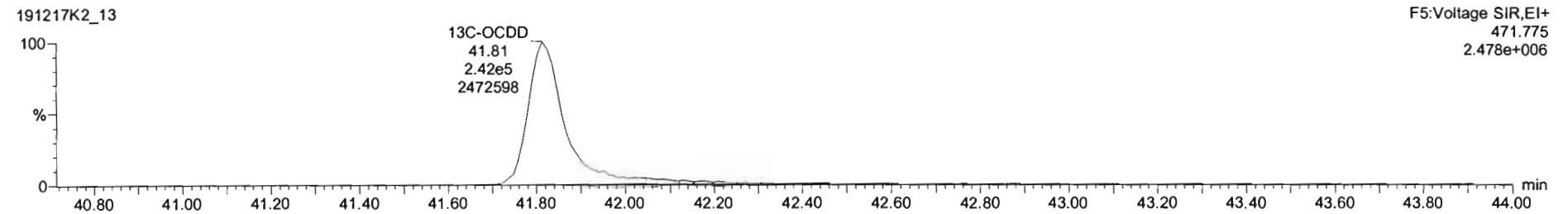


13C-OCDD

191217K2_13



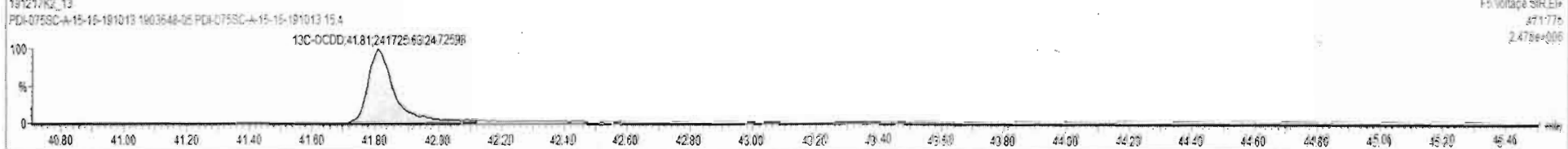
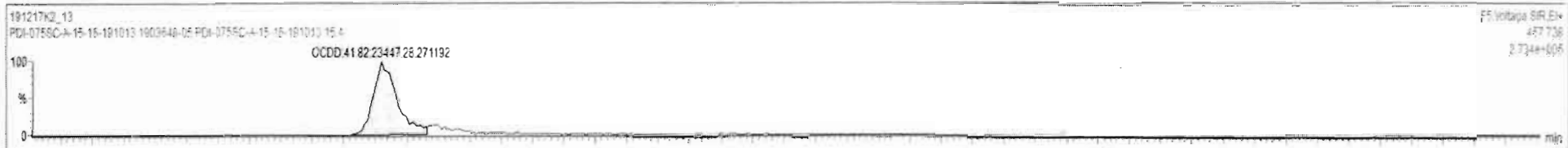
191217K2_13



191217K2_13 - 1903648-05 PDI-075SC-A-15-16-191013 15.4 - PDI-075SC-A-15-16-191013

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flags	No Sol.	Peak#
4	1,2,3,6,7,8-HxCDD		3.82e5	21				10.039	34.76			1.000	YES			0.158				NO
5	1,2,3,7,8,9-HxCDD		3.16e5	22				10.039	35.07			1.001	YES			0.178				NO
6	1,2,3,4,6,7,8-HpCDD	6.17e3	2.80e5	23	1.01	NO		10.039	38.55	38.56	1.001	1.000	NO	4.232		0.252	4.232	MM		NO
7	OCDD	5.05e4	4.54e5	24	0.87	NO		10.039	41.81	41.82	1.000	1.000	NO	45.63		0.849	45.63	bd		NO
8	2,3,7,8-TCDF	2.12e3	8.41e5	25	0.99	YES		10.039	25.20	25.20	1.001	1.001	NO	0.5351		0.148	0.4748	bb		NO
9	1,2,3,7,8-PeCDF	2.28e3	6.40e5	26	1.85	YES		10.039	30.02	30.02	1.001	1.001	NO	0.7218		0.116	0.6463	bb		NO
10	2,3,4,7,8-PeCDF	1.31e3	6.23e5	27	1.60	NO		10.039	31.02	31.01	1.001	1.001	NO	0.4181		0.0955	0.4181	bb		NO
11	1,2,3,4,7,8-HxCDF	2.84e3	4.30e5	28	1.20	NO		10.039	33.75	33.81	1.001	1.000	NO	0.9024		0.0557	0.9024	bd		NO
12	1,2,3,6,7,8-HxCDF	7.64e2	5.27e5	29	1.84	YES		10.039	33.92	33.93	1.001	1.000	NO	0.2635		0.0591	0.2078	db		NO
13	2,3,4,6,7,8-HxCDF	4.37e2	4.75e5	30	1.06	YES		10.039	34.52	34.48	1.000	1.001	NO	0.1556		0.0601	0.1407	bb		NO
14	1,2,3,7,8,9-HxCDF		4.04e5	31				10.039	35.37			1.000	YES			0.0859				NO
15	1,2,3,4,6,7,8-HpCDF	2.87e3	4.08e5	32	1.11	NO		10.039	37.15	37.13	1.000	1.001	NO	1.241		0.0748	1.241	bb		NO
16	1,2,3,4,7,8,9-HpCDF		2.85e5	33				10.039	39.16			1.000	YES			0.0999				NO

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primar.	I° Det.
1												



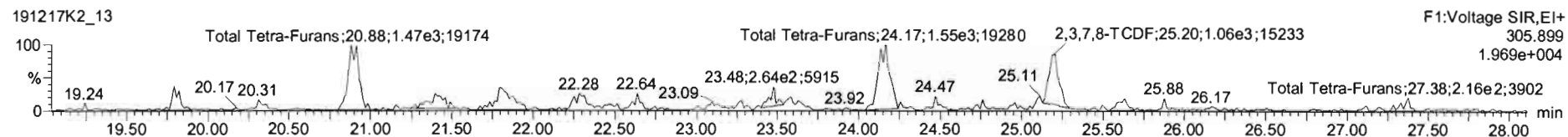
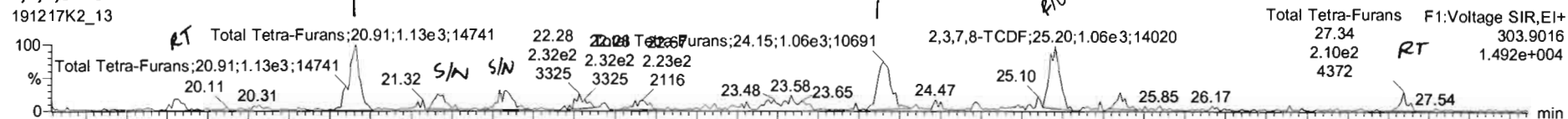
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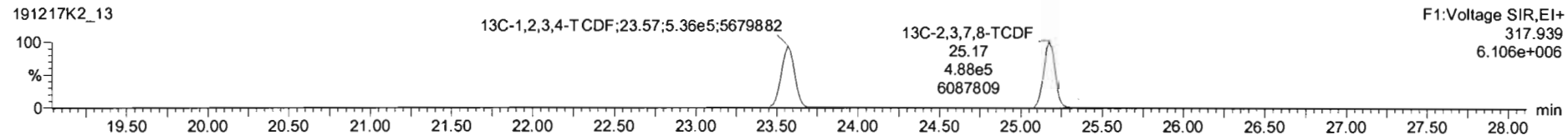
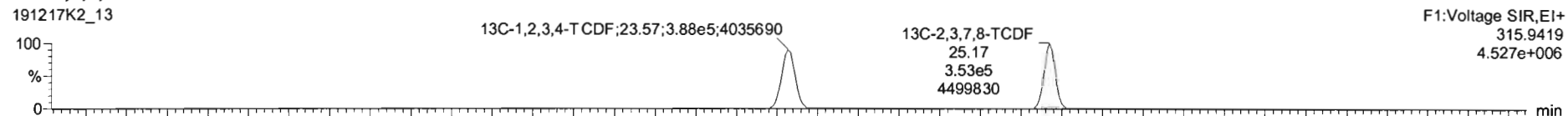
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Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

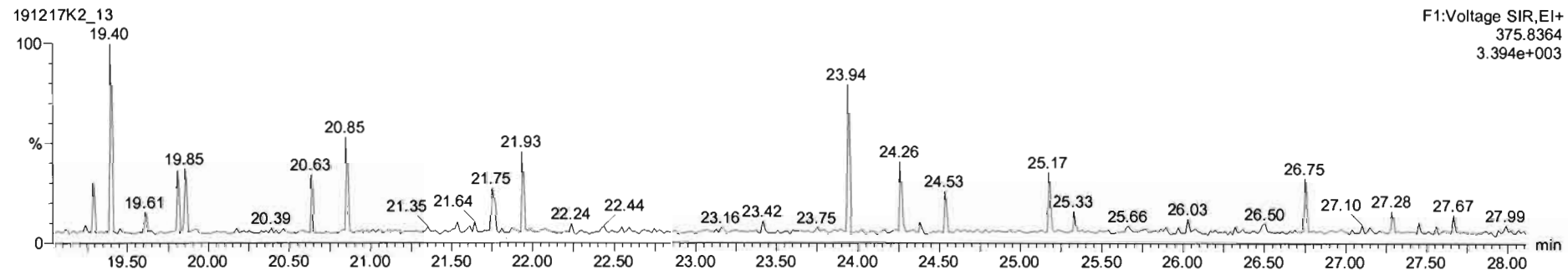
2,3,7,8-TCDF



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



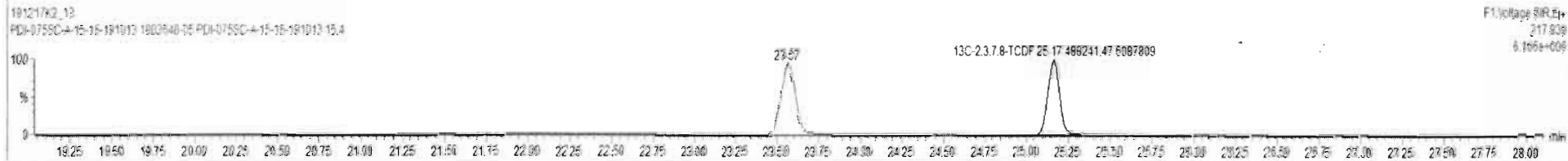
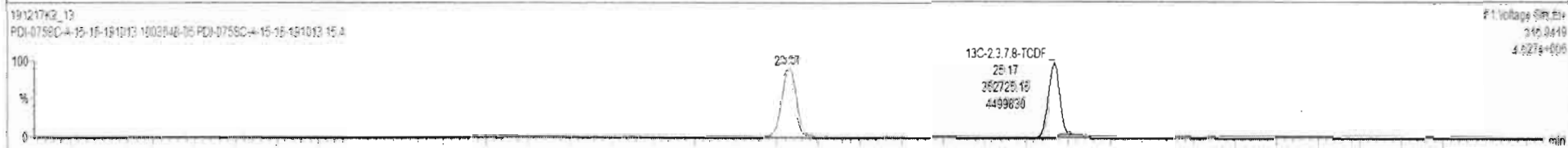
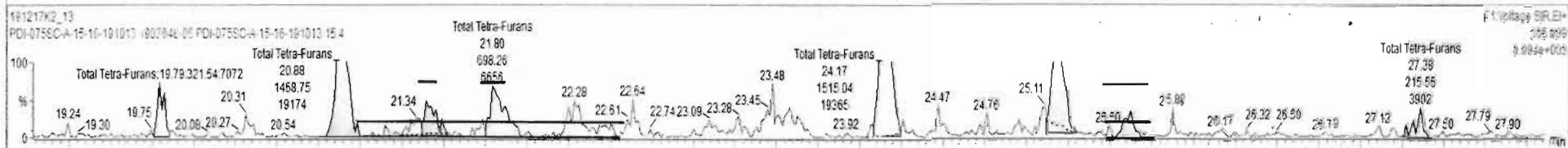
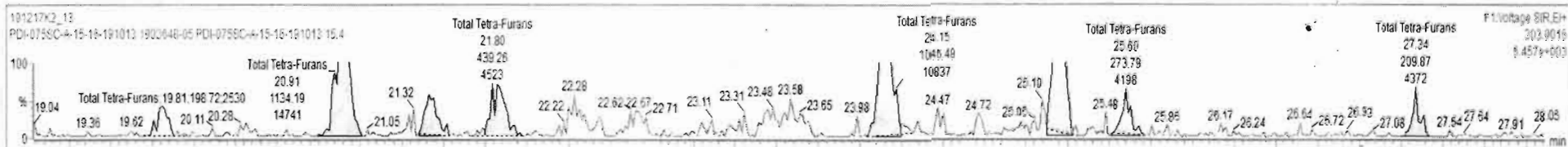
DPE1



191217K2_13 - 1903648-05 PDI-075SC-A-15-16-191013 15.4 - PDI-075SC-A-15-16-191013

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wVvol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC	Primary Flag	No Sol.	Peaks
36	13C-1,2,3,4-TCDD	5.68e5	5.68e5	36	0.79	NO			10.039	25.45	2.545	1.000	1.000	NO	199.2	100	0.425	bb	NO	
37	13C-1,2,3,4-TCDF	9.25e5	9.25e5	37	0.72	NO			10.039	23.55	2.355	1.000	1.000	NO	199.2	100	0.503	bb	NO	
38	13C-1,2,3,4,6,8-HxCDF	5.97e5	5.97e5	38	0.52	NO			10.039	34.16	3.416	1.000	1.000	NO	199.2	100	0.751	bb	NO	
39	Total Tetra-Dioxins	5.74e5							10.039	24.62		0.000	NO			0.102			NO	
40	Total Penta-Dioxins	4.41e5							10.039	29.96		0.000	NO			0.0290			NO	
41	Total Hexa-Dioxins	0.00e0							10.039	33.63		0.000	NO	1.338	0.169	1.881			NO	1
42	Total Hepta-Dioxins	2.80e5							10.039	38.00		0.000	NO	10.56	0.252	10.58			NO	2
43	Total Tetra-Furans	8.41e5							10.039	23.61		0.000	NO	1.477	0.148	2.595			NO	3
44	1st Func. Penta-Furans	0.00e0							10.039	27.04		0.000	NO	0.4913	0.0342	0.4013			NO	1
45	Total Penta-Furans	0.00e0							10.039	29.27		0.000	NO	1.273	0.107	1.919			NO	3
46	Total Hexa-Furans	0.00e0							10.039	33.56		0.000	NO	1.969	0.0622	2.317			NO	3
47	Total Hepta-Furans	0.00e0							10.039	37.83		0.000	NO	2.930	0.0099	2.930			NO	2
48	PFK1																			

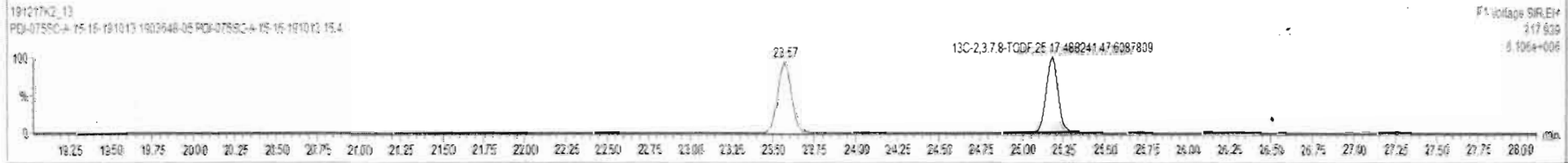
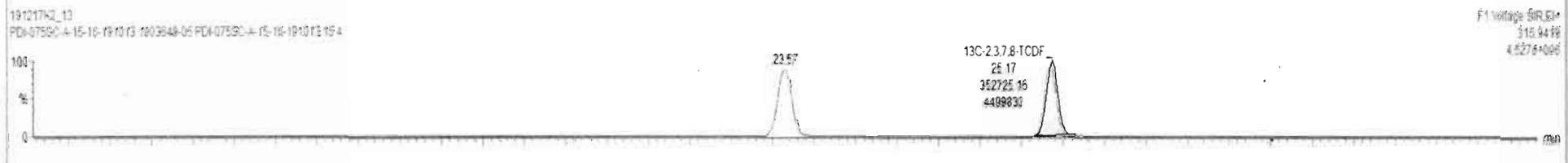
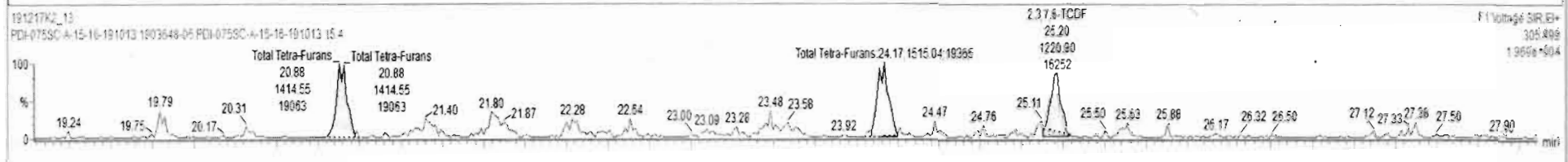
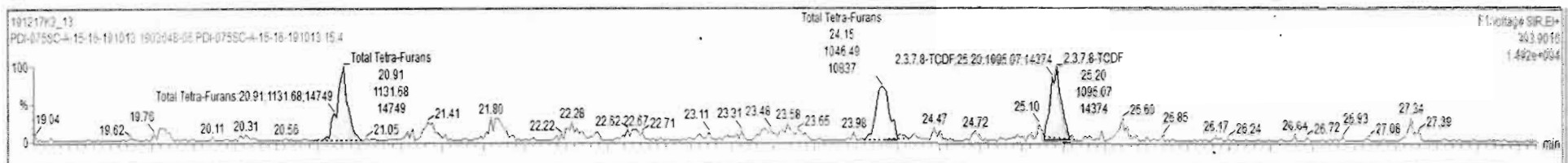
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.	Prmer	1 st Det.
1	43 Total Tetra-Furans	23.61	19.81	1.967e2	3.215e2	0.770	0.62	YES	0.11542	0.00000	MM	MM
2	43 Total Tetra-Furans	23.61	20.91	1.124e3	1.469e3	0.770	0.77	NO	0.85766	0.65766	bb	bb
3	43 Total Tetra-Furans	23.61	21.41	3.102e2	3.729e2	0.770	0.83	NO	0.17258	0.17258	MM	MM
4	43 Total Tetra-Furans	23.61	21.80	4.309e2	6.963e2	0.770	0.63	YES	0.25513	0.00000	MM	MM



191217K2_13 - 1903648-05 PDI-075SC-A-15-16-191013 15.4 - PDI-075SC-A-15-16-191013

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flag	No Sol.	Peaks
36	13C-1,2,3,4-TCDF	5.58e5	5.86e5	36	0.79	NO		10.039	25.45	25.47	1.000	1.000	NO	199.2	100	0.425		bb	NO	
37	13C-1,2,3,4-TCDF	9.25e5	9.25e5	37	0.72	NO		10.039	23.55	23.57	1.000	1.000	NO	199.2	100	0.503		bb	NO	
38	13C-1,2,3,4,6,9-HxCDF	5.97e5	5.97e5	38	0.52	NO		10.039	34.16	34.17	1.000	1.000	NO	199.2	100	0.751		bb	NO	
39	Total Tetra-Dioxins	5.74e5						10.039	24.82		0.000	0.000	NO			0.102			NO	
40	Total Penta-Dioxins	4.41e5						10.039	29.96		0.000	0.000	NO			0.0390			NO	
41	Total Hexa-Dioxins	0.00e0						10.039	33.83		0.000	0.000	NO	1.339		0.169	1.881		NO	1
42	Total Hepta-Dioxins	2.80e5						10.039	38.80		0.000	0.000	NO	10.58		0.252	10.58		NO	2
43	Total Tetra-Furans	8.41e5						10.039	23.81		0.000	0.000	NO	1.291		0.148	1.837		NO	2
44	1st Func. Penta-Furans	0.00e0						10.039	27.04		0.000	0.000	NO	0.4013		0.0342	0.4013		NO	1
45	Total Penta-Furans	0.00e0						10.039	29.27		0.000	0.000	NO	1.273		0.107	1.919		NO	3
46	Total Hexa-Furans	0.00e0						10.039	33.58		0.000	0.000	NO	1.969		0.0822	2.317		NO	3
47	Total Hepta-Furans	0.00e0						10.039	37.83		0.000	0.000	NO	2.930		0.0896	2.930		NO	2
48	PFK1																			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primar.	1° Det.
1	43 Total Tetra-Furans	23.81	20.91	1.132e3	1.415e3	0.770	0.80	NO	0.64305	0.64305	MM	MM
2	43 Total Tetra-Furans	23.81	24.15	1.046e3	1.515e3	0.770	0.86	NO	0.64722	0.64722	MM	MM
3	8 2,3,7,8-TCDF	25.20	25.20	1.095e3	1.221e3	0.770	0.90	YES	0.54601	0.00000	MM	MM



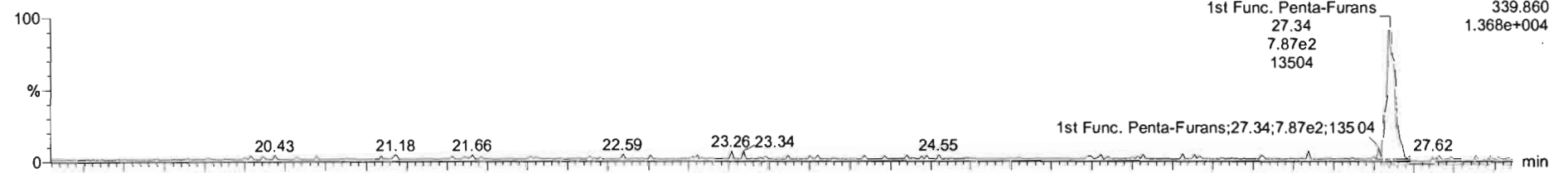
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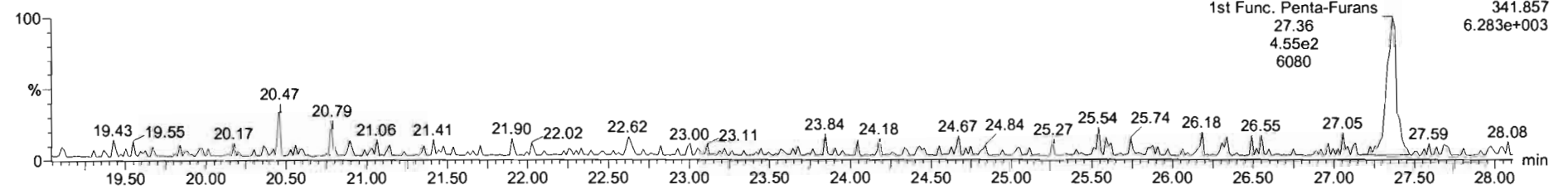
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1st Func. Penta-Furans

191217K2_13

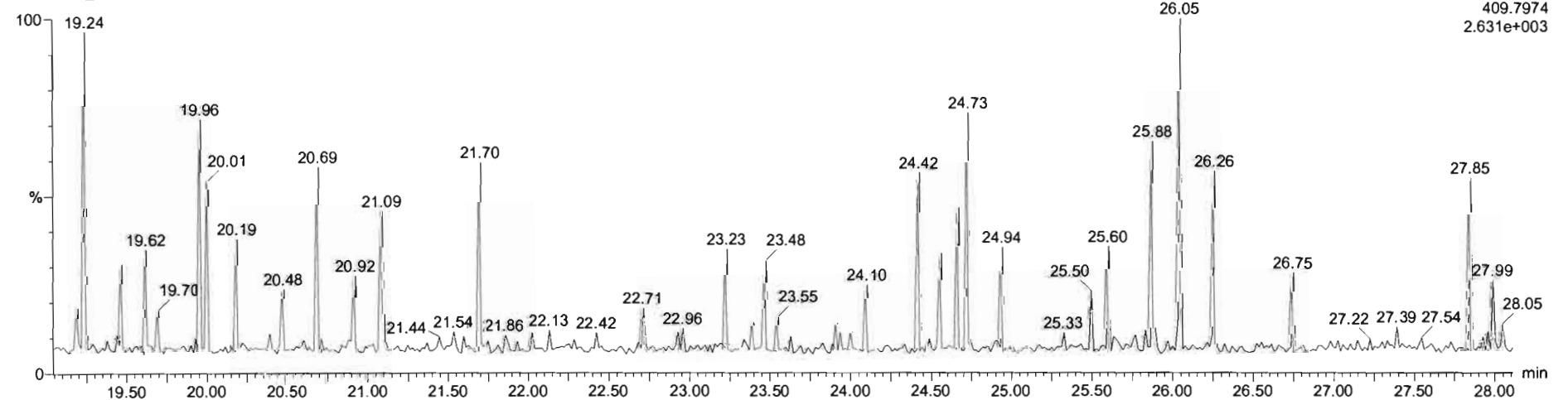


191217K2_13



DPE6

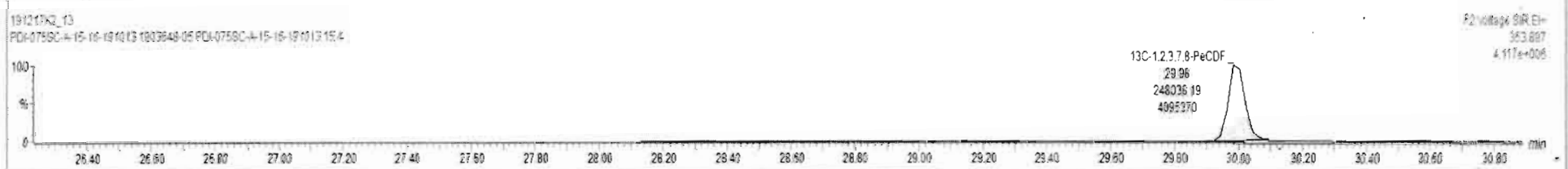
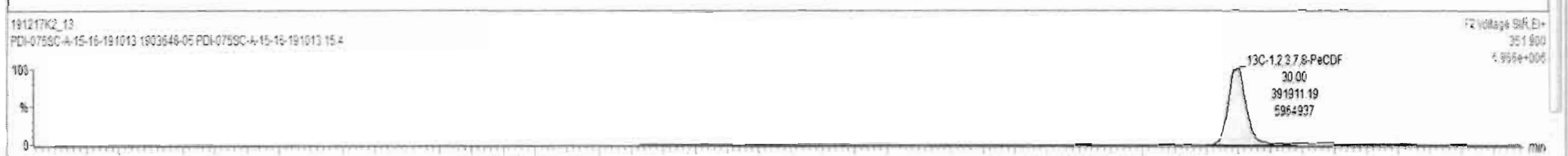
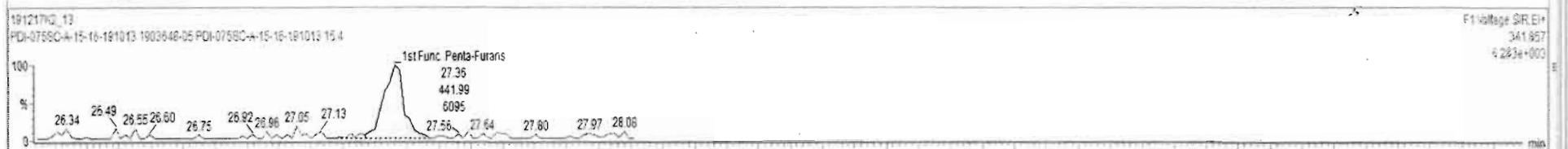
191217K2_13



191217K2_13 - 1903648-05 PDI-075SC-A-15-16-191013 15.4 - PDI-075SC-A-15-16-191013

#	Name	Resp	IS Resp	IS#	RA	n/y	RRT	wtVal	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMFC	Primary	Flags	No Sci	Peaks
36	13C-1,2,3,4-TCDD	5.66e5	5.66e5	36	0.79	NO		10.039	25.45	25.47	1.000	1.000	NO	199.2	100	0.425		ob		NO	
37	13C-1,2,3,4-TCDF	9.25e5	9.25e5	37	0.72	NO		10.039	23.55	23.57	1.000	1.000	NO	199.2	100	0.503		ob		NO	
38	13C-1,2,3,4,6,8-HxCDF	5.97e5	5.97e5	38	0.52	NO		10.039	34.16	34.17	1.000	1.000	NO	199.2	100	0.751		ob		NO	
39	Total Tetra-Dioxins		5.74e5					10.039	24.62			0.000	NO			0.102				NO	
40	Total Penta-Dioxins		4.41e5					10.039	29.96			0.000	NO			0.0350				NO	
41	Total Hexa-Dioxins		0.00e0					10.039	33.63			0.000	NO	1.339		0.169	1.061			NO	1
42	Total Hepta-Dioxins		2.80e5					10.039	38.80			0.000	NO	10.56		0.252	10.56			NO	2
43	Total Tetra-Furans		8.41e5					10.039	23.61			0.000	NO	1.291		0.146	1.837			NO	2
44	1st Func. Penta-Furans		0.00e0					10.039	27.04			0.000	NO	0.3936		0.0342	0.3936			NO	1
45	Total Penta-Furans		0.00e0					10.039	29.27			0.000	NO	1.273		0.107	1.919			NO	3
46	Total Hexa-Furans		6.00e0					10.039	33.56			0.000	NO	1.969		0.0622	2.317			NO	3
47	Total Hepta-Furans		0.00e0					10.039	37.83			0.000	NO	2.930		0.0095	2.930			NO	2
48	PFK1																				

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Prmar.	1 st Det.
1	44 1st Func. Penta-Furans	27.04	27.34	7.754e2	4.420e2	1.550	1.75	NO	0.39356	0.39356	MM	MM



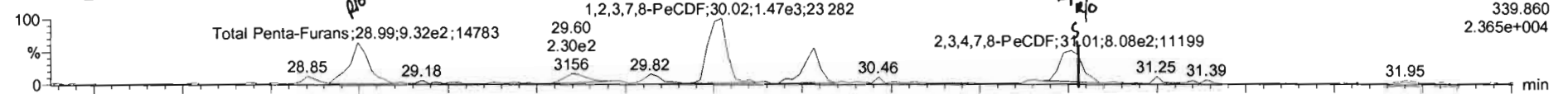
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

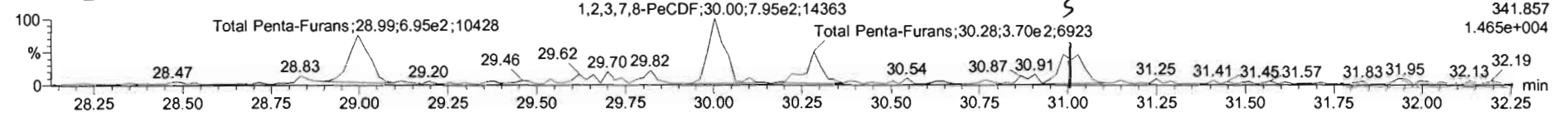
Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

1,2,3,7,8-PeCDF

191217K2_13

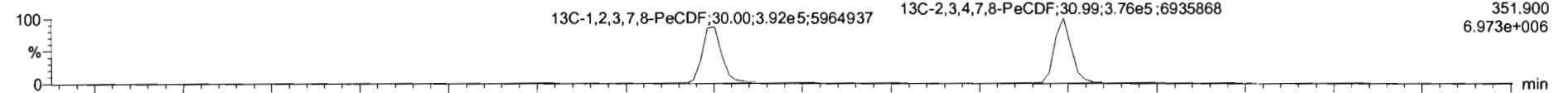


191217K2_13

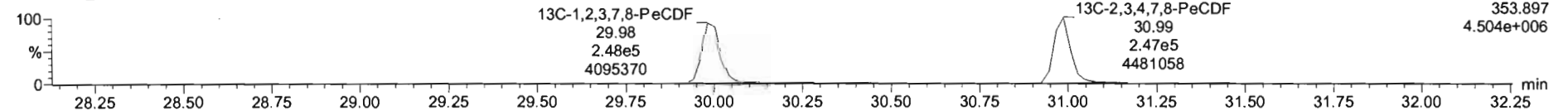


13C-1,2,3,7,8-PeCDF

191217K2_13

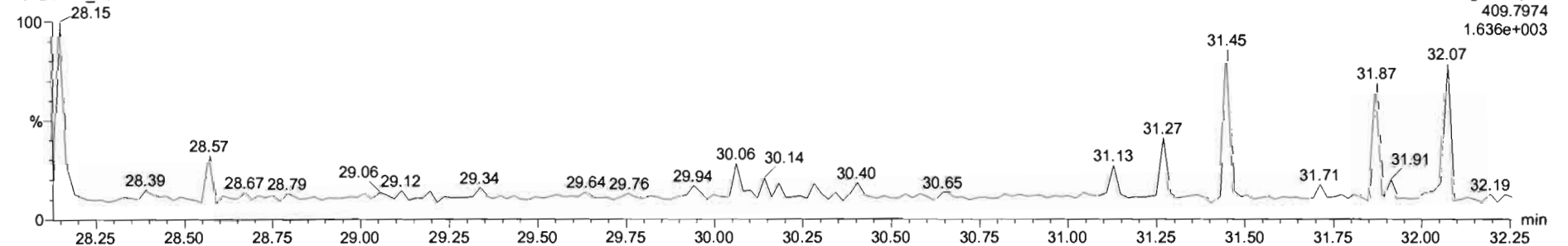


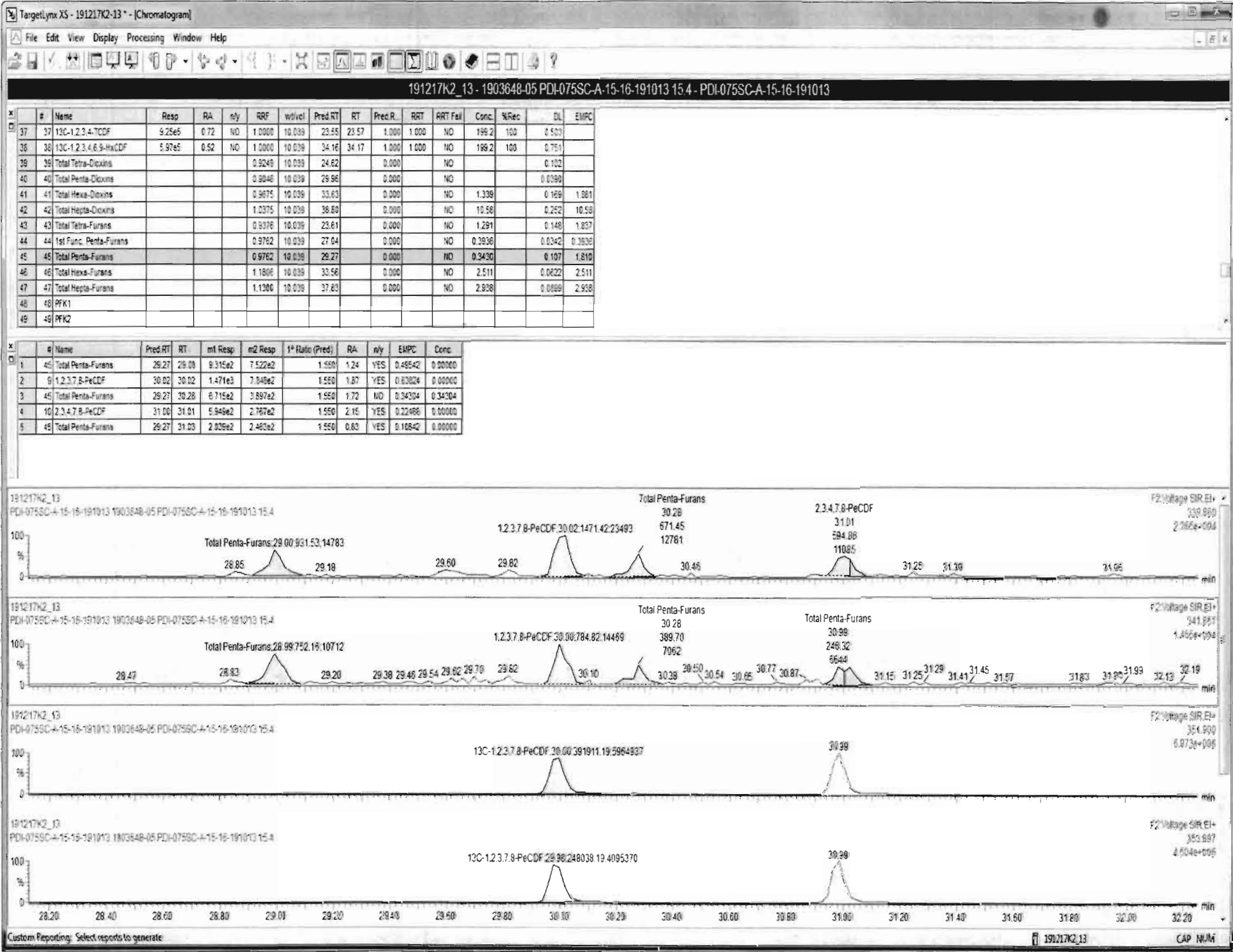
191217K2_13



DPE2

191217K2_13





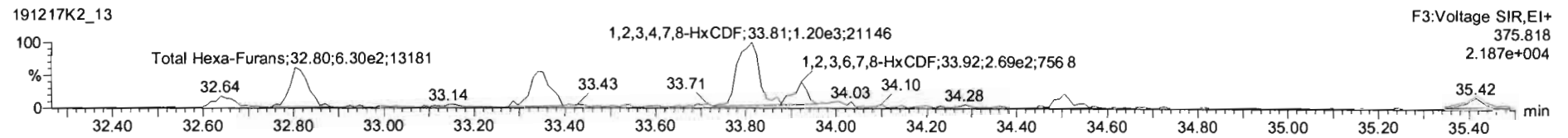
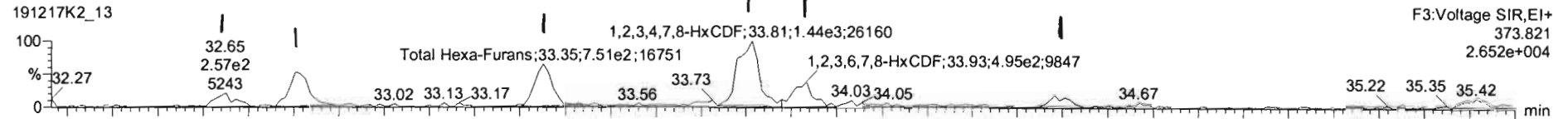
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

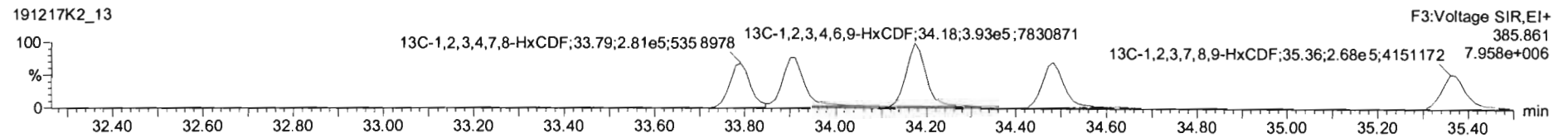
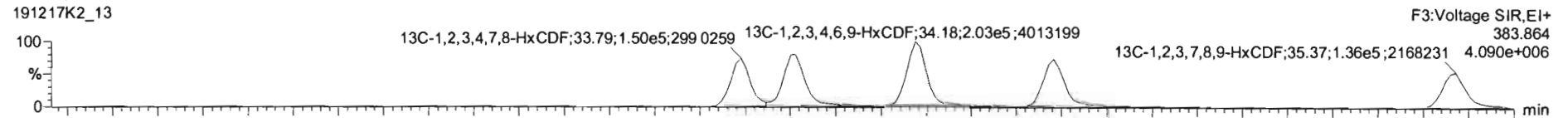
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

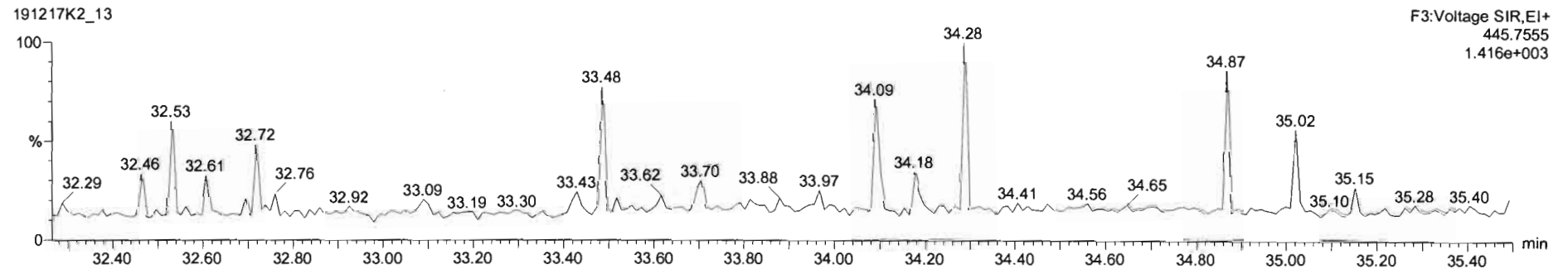
1,2,3,4,7,8-HxCDF



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



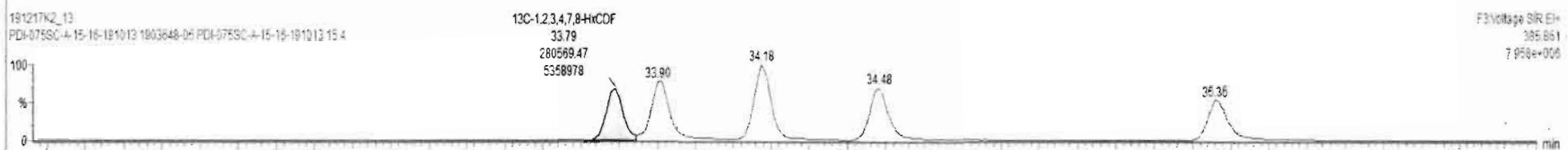
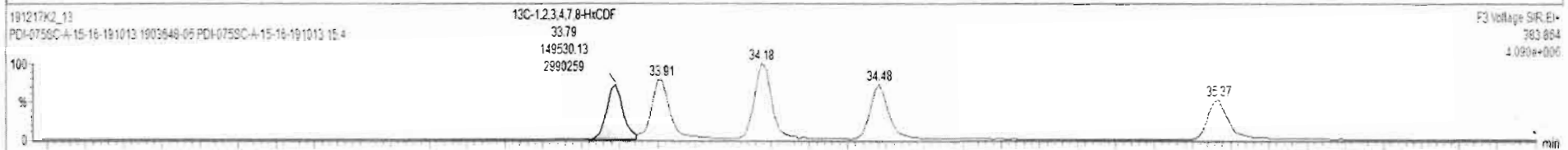
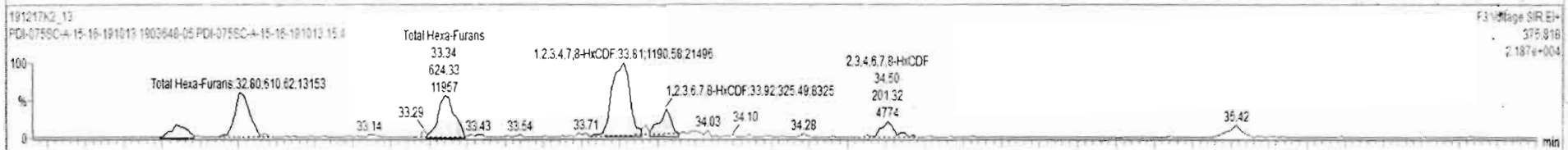
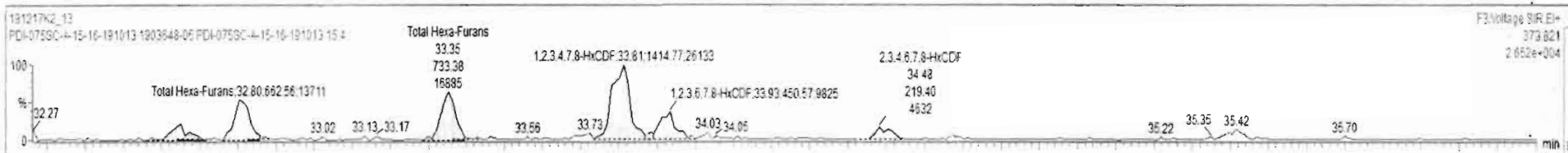
DPE3



191217K2_13 - 1903648-05 PDI-075SC-A-15-16-191013 15.4 - PDI-075SC-A-15-16-191013

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flags	No Sol.	Peaks
36	13C-1,2,3,4-TCDD	5.88e5	5.88e5	36	0.79	NO		10.039	25.45	25.47	1.000	1.000	NO	199.2	100	0.428		bb	NO	
37	13C-1,2,3,4-TCDF	9.25e5	9.25e5	37	0.72	NO		10.039	23.55	23.57	1.000	1.000	NO	199.2	100	0.503		bb	NO	
38	13C-1,2,3,4,6,8-HxCDF	5.97e5	5.97e5	38	0.52	NO		10.039	34.16	34.17	1.000	1.000	NO	199.2	100	0.751		bb	NO	
39	Total Tetra-Dioxins	5.74e5						10.039	24.62		0.000	NO				0.102			NO	
40	Total Penta-Dioxins	4.41e5						10.039	29.96		0.000	NO				0.0390			NO	
41	Total Hexa-Dioxins	0.00e0						10.039	33.63		0.000	NO		1.339		0.169	1.661		NO	1
42	Total Hepta-Dioxins	2.80e5						10.039	36.80		0.000	NO		10.58		0.252	10.58		NO	2
43	Total Tetra-Furans	8.41e5						10.039	23.61		0.000	NO		1.291		0.146	1.637		NO	2
44	1st Func. Penta-Furans	0.00e0						10.039	27.04		0.000	NO		0.3936		0.0342	0.3936		NO	1
45	Total Penta-Furans	0.00e0						10.039	29.27		0.000	NO		0.7772		0.107	1.911		NO	2
46	Total Hexa-Furans	0.00e0						10.039	33.58		0.000	NO		2.511		0.0622	2.511		NO	6
47	Total Hepta-Furans	0.00e0						10.039	37.63		0.000	NO		2.930		0.0696	2.930		NO	2
48	PFK1																			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primar.	1° Det.
1	Total Hexa-Furans	33.56	32.85	2.461e2	1.760e2	1.240	1.36	NO	0.15629	0.15628	MM	MM
2	Total Hexa-Furans	33.56	32.80	6.626e2	6.106e2	1.240	1.09	NO	0.46807	0.46807	MM	MM
3	Total Hexa-Furans	33.56	33.35	7.304e2	6.243e2	1.240	1.17	NO	0.49915	0.49915	MM	MM
4	1,2,3,4,7,8-HxCDF	33.79	33.81	1.415e3	1.181e3	1.240	1.19	NO	0.97057	6.97057	MM	MM

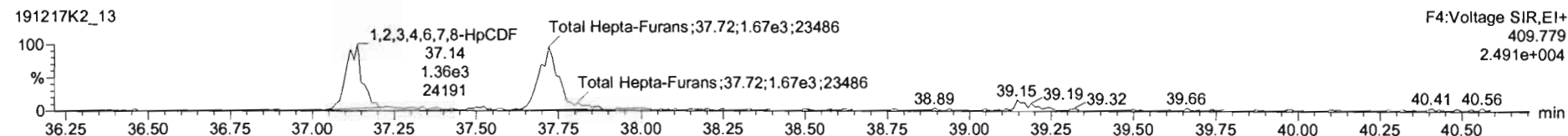


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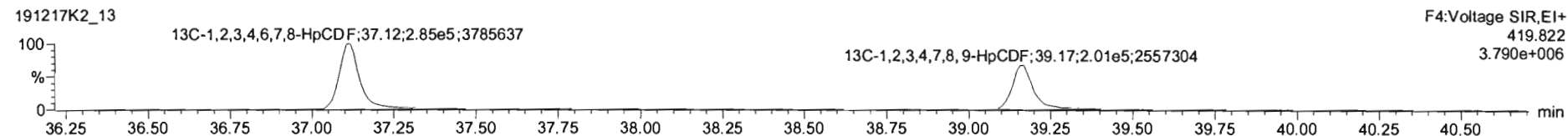
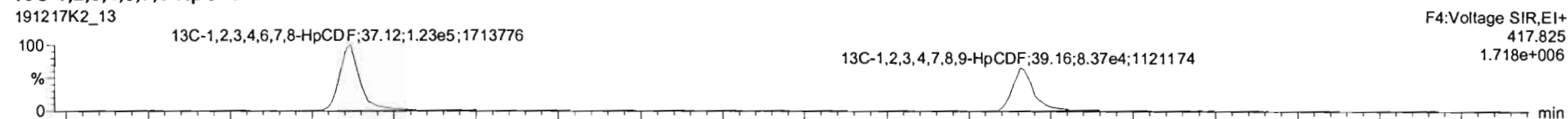
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

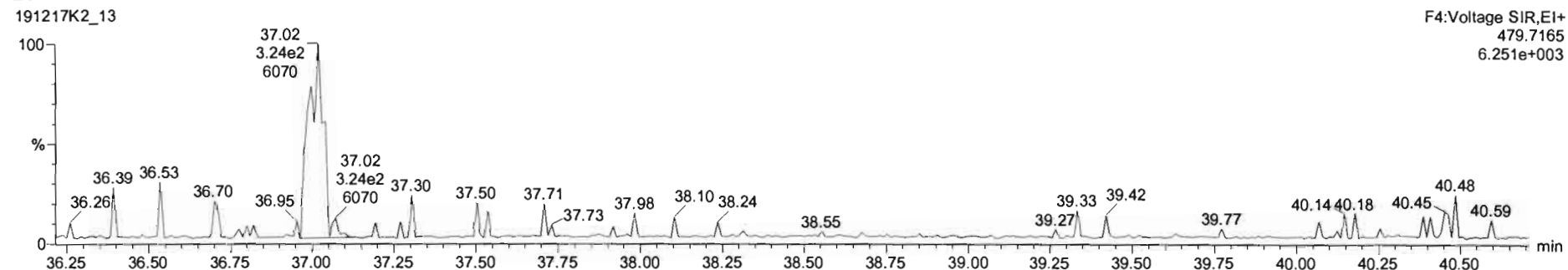
1,2,3,4,6,7,8-HpCDF



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



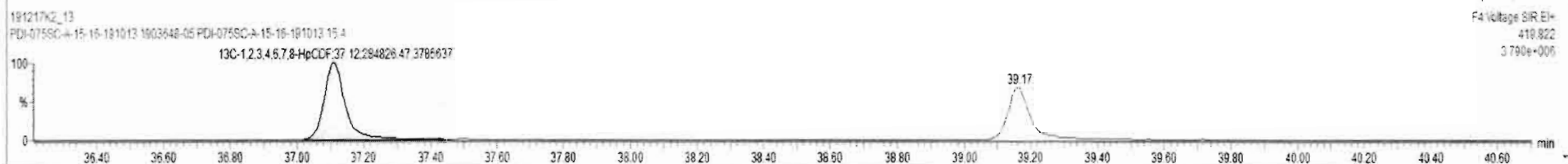
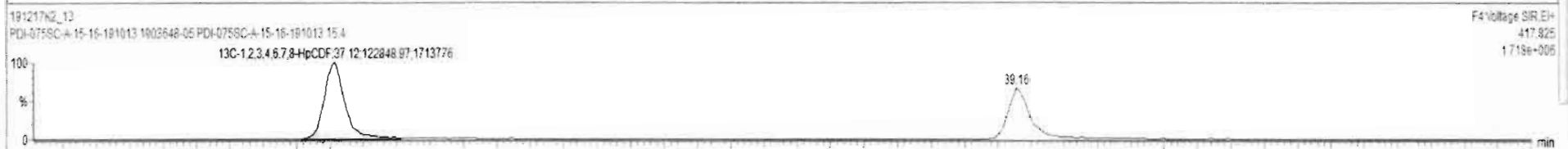
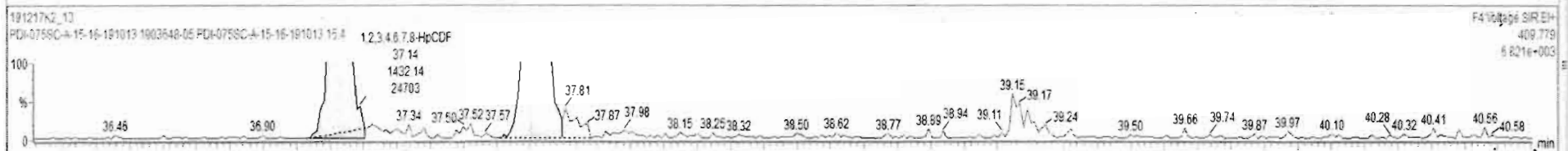
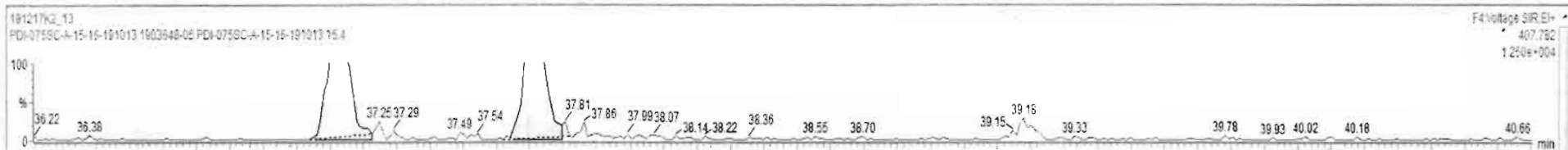
DPE4



191217K2_13 - 1903648-05 PDI-075SC-A-15-16-191013 15.4 - PDI-075SC-A-15-16-191013

#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flags	No Sol.	Peaks
36	36	13C-1,2,3,4-TCDD	5.68e5	5.68e5	36	0.79	NO	10.039	26.45	26.47	1.000	1.000	NO	199.2	100	0.425		bb	NO	
37	37	13C-1,2,3,4-TCDF	9.25e5	9.25e5	37	0.72	NO	10.039	23.55	23.57	1.000	1.000	NO	199.2	100	0.503		bb	NO	
38	38	13C-1,2,3,4,6,8-HxCDF	5.97e5	5.97e5	38	0.52	NO	10.039	34.16	34.17	1.000	1.000	NO	199.2	100	0.751		bb	NO	
39	39	Total Tetra-Dioxins		5.74e5				10.039	24.62			0.000	NO			0.102			NO	
40	40	Total Penta-Dioxins		4.41e5				10.039	29.96			0.000	NO			0.0390			NO	
41	41	Total Hexa-Dioxins		0.00e0				10.039	33.63			0.000	NO	1.339		0.169	1.881		NO	1
42	42	Total Hepta-Dioxins		2.00e5				10.039	38.00			0.000	NO	10.58		0.252	10.58		NO	2
43	43	Total Tetra-Furans		8.41e5				10.039	23.61			0.000	NO	1.291		0.148	1.837		NO	2
44	44	1st Func. Penta-Furans		0.00e0				10.039	27.04			0.000	NO	0.3636		0.0342	0.3636		NO	1
45	45	Total Penta-Furans		0.00e0				10.039	29.27			0.000	NO	0.7772		0.107	1.911		NO	2
46	46	Total Hexa-Furans		0.00e0				10.039	33.56			0.000	NO	2.511		0.0622	2.511		NO	6
47	47	Total Hepta-Furans		0.00e0				10.039	37.83			0.000	NO	2.938		0.0899	2.938		NO	2
48	48	PFK1																		

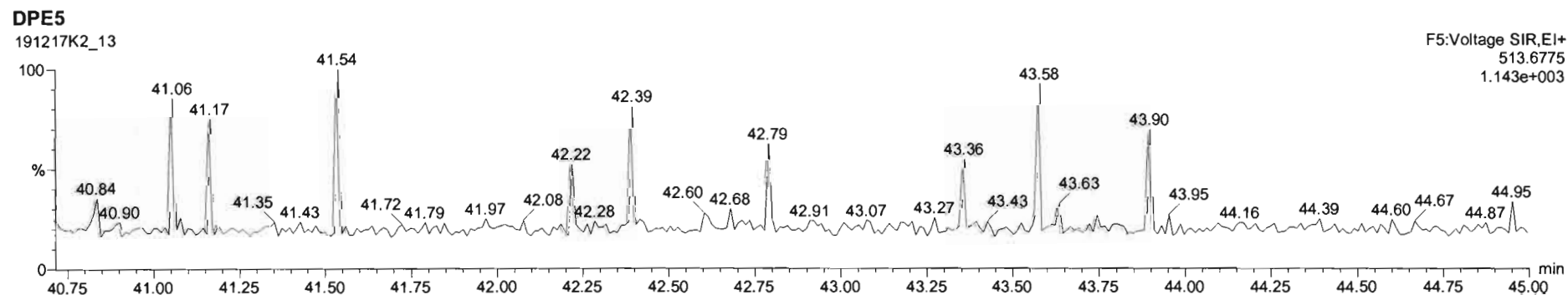
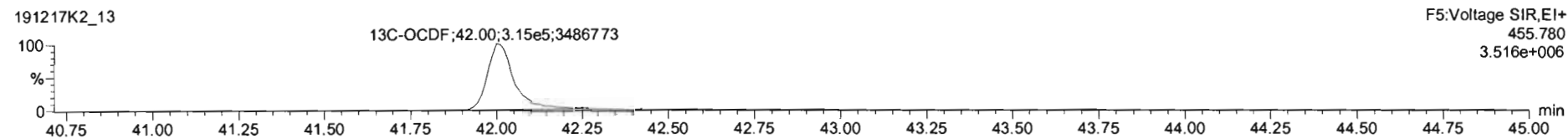
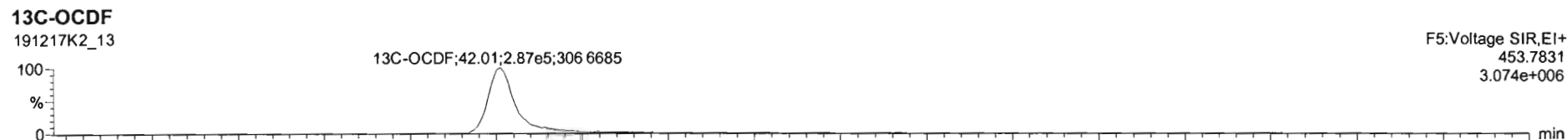
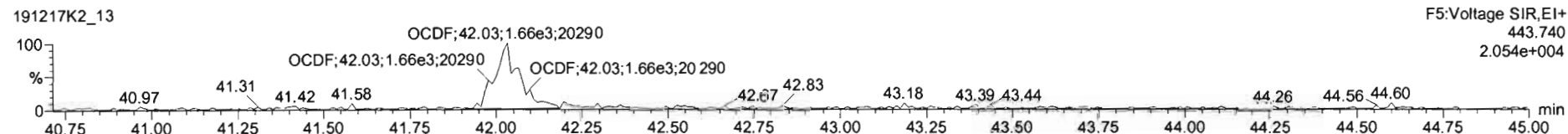
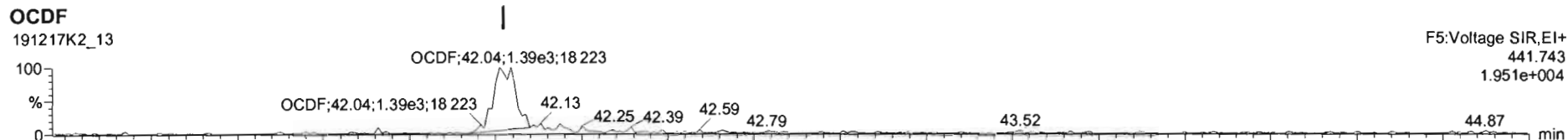
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.	Primer	1° Det.
1	15 1,2,3,4,6,7,8-HpCDF	37.15	37.13	1.593e3	1.432e3	1.040	1.11	NO	1.3082	1.3082	MM	MM
2	47 Total Hepta-Furans	37.83	37.73	1.644e3	1.557e3	1.040	1.06	NO	1.6297	1.6297	MM	MM



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013

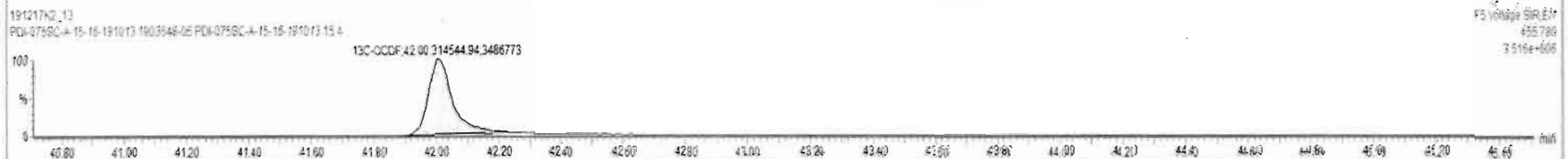




191217K2_13 - 1903648-05 PDI-075SC-A-15-16-191013 15.4 - PDI-075SC-A-15-16-191013

#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC	Primary Flags	No Sol.	Peaks
7	OCDF	5.06e4	4.54e5	24	0.87	NO		10.039	41.81	41.82	1.000	1.001	NO	45.83		0.849	45.83	bd	NO	
8	2,3,7,8-TCDF	2.32e3	8.41e5	25	0.90	YES		10.039	25.20	25.20	1.001	1.001	NO	0.5952		0.148	0.5460	MM	NO	
9	1,2,3,7,8-PeCDF	2.26e3	6.40e5	26	1.87	YES		10.039	30.02	30.02	1.001	1.001	NO	0.7195		0.116	0.6382	MM	NO	
10	2,3,4,7,8-PeCDF	1.36e3	6.20e5	27	1.61	NO		10.039	31.02	31.01	1.001	1.001	NO	0.4342		0.0955	0.4342	MM	NO	
11	1,2,3,4,7,8-HxCDF	2.61e3	4.30e5	28	1.19	NO		10.039	33.79	33.81	1.001	1.000	NO	0.8706		0.0557	0.9706	MM	NO	
12	1,2,3,6,7,8-HxCDF	7.76e2	5.27e5	29	1.38	NO		10.039	33.92	33.93	1.001	1.000	NO	0.2677		0.0591	0.2677	MM	NO	
13	1,2,3,4,6,7,8-HxCDF	4.21e2	4.75e5	30	1.05	NO		10.039	34.52	34.48	1.000	1.001	NO	0.1496		0.0601	0.1496	MM	NO	
14	1,2,3,7,8,9-HxCDF		4.04e5	31				10.039	35.37			1.000	YES			0.0859			NO	
15	1,2,3,4,6,7,8-HpCDF	3.02e3	4.08e5	32	1.11	NO		10.039	37.15	37.13	1.000	1.001	NO	1.308		0.0746	1.308	MM	NO	
16	1,2,3,4,7,8,9-HpCDF		2.85e5	33				10.039	39.16			1.000	YES			0.0999			NO	
17	OCDF	3.00e3	6.02e5	34	0.96	NO		10.039	42.01	42.04	1.001	1.000	NO	1.800		0.161	1.800	MM	NO	
18	13C-2,3,7,8-TCDD	5.74e5	5.68e5	36	0.82	NO		10.039	26.16	26.15	1.027	1.027	NO	192.0	96.4	0.406		bd	NO	
19	13C-1,2,3,7,8-PeCDD	4.41e5	5.68e5	36	0.61	NO		10.039	31.31	31.31	1.229	1.230	NO	208.4	106	0.532		bd	NO	

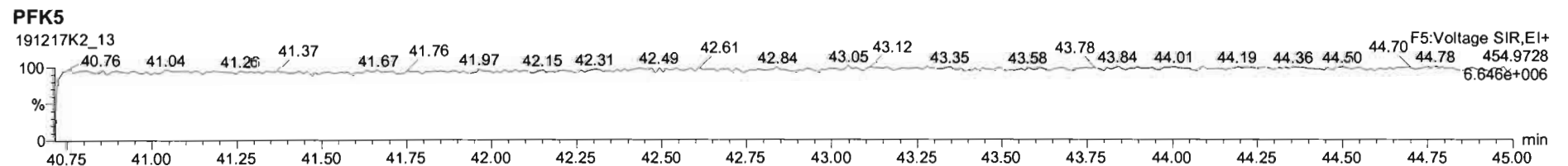
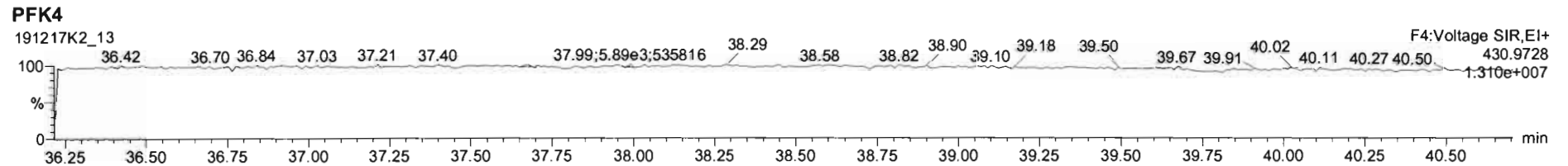
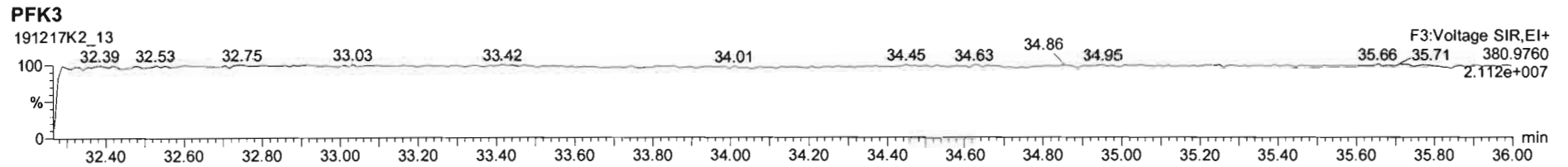
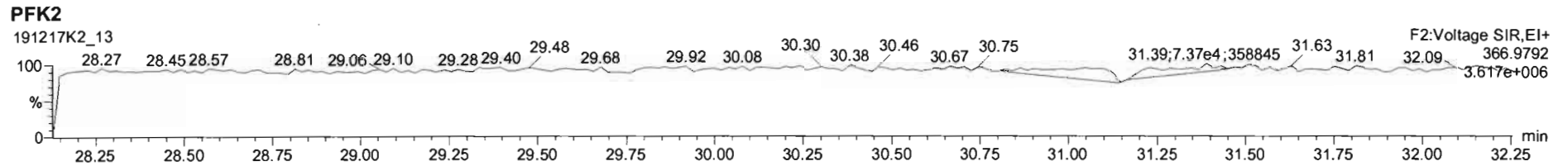
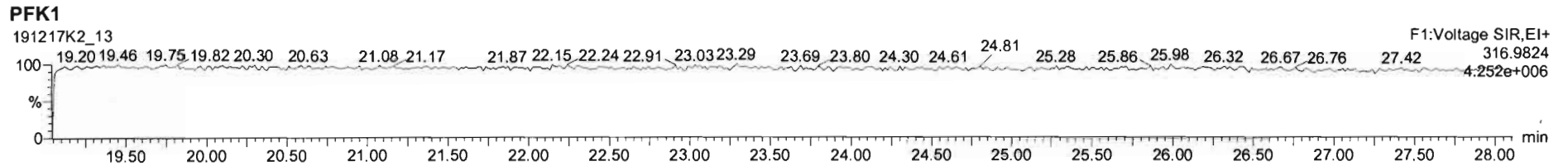
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Prmar.	1° Det.
1												



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_13, Date: 17-Dec-2019, Time: 23:32:25, ID: 1903648-05 PDI-075SC-A-15-16-191013 15.4, Description: PDI-075SC-A-15-16-191013



Dataset: U:\VG11.PRO\Results\191217K2\191217K2-14.qld

Last Altered: Monday, December 23, 2019 09:43:37 Pacific Standard Time
Printed: Monday, December 23, 2019 09:46:07 Pacific Standard Time

EL 12/23/19

C7 12/26/19

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57
Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.925	10.009	26.18		1.00		YES			0.144	
2	2 1,2,3,7,8-PeCDD				0.905	10.009	31.33		1.00		YES			0.102	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.009	34.67		1.00		YES			0.145	
4	4 1,2,3,6,7,8-HxCDD				0.967	10.009	34.75		1.00		YES			0.129	
5	5 1,2,3,7,8,9-HxCDD				0.978	10.009	35.06		1.00		YES			0.157	
6	6 1,2,3,4,6,7,8-HpCDD				1.04	10.009	38.55		1.00		YES			0.202	
7	7 OCDD	1436.777	0.970	NO	0.972	10.009	41.81	41.81	1.00	1.00	NO	1.753		0.376	1.753
8	8 2,3,7,8-TCDF				0.938	10.009	25.18		1.00		YES			0.0924	
9	9 1,2,3,7,8-PeCDF				0.976	10.009	30.00		1.00		YES			0.0541	
10	10 2,3,4,7,8-PeCDF				1.00	10.009	31.02		1.00		YES			0.0439	
11	11 1,2,3,4,7,8-HxCDF				1.24	10.009	33.79		1.00		YES			0.0415	
12	12 1,2,3,6,7,8-HxCDF				1.10	10.009	33.91		1.00		YES			0.0426	
13	13 2,3,4,6,7,8-HxCDF				1.18	10.009	34.52		1.00		YES			0.0440	
14	14 1,2,3,7,8,9-HxCDF				1.07	10.009	35.36		1.00		YES			0.0593	
15	15 1,2,3,4,6,7,8-HpCDF				1.13	10.009	37.14		1.00		YES			0.0302	
16	16 1,2,3,4,7,8,9-HpCDF				1.26	10.009	39.15		1.00		YES			0.0405	
17	17 OCDF				1.10	10.009	42.01		1.00		YES			0.140	
18	18 13C-2,3,7,8-TCDD	426819.922	0.774	NO	1.05	10.009	26.15	26.15	1.03	1.03	NO	190.5	95.3	0.460	
19	19 13C-1,2,3,7,8-PeCDD	329506.812	0.612	NO	0.743	10.009	31.29	31.31	1.23	1.23	NO	207.7	104	0.710	
20	20 13C-1,2,3,4,7,8-HxCDD	234328.641	1.250	NO	0.646	10.009	34.65	34.66	1.01	1.01	NO	161.7	80.9	0.984	
21	21 13C-1,2,3,6,7,8-HxCDD	305415.594	1.177	NO	0.777	10.009	34.75	34.75	1.02	1.02	NO	175.4	87.8	0.819	
22	22 13C-1,2,3,7,8,9-HxCDD	265181.860	1.130	NO	0.659	10.009	35.02	35.02	1.02	1.02	NO	179.3	89.8	0.964	
23	23 13C-1,2,3,4,6,7,8-HpCDD	202552.165	1.096	NO	0.534	10.009	38.52	38.54	1.13	1.13	NO	169.1	84.6	0.930	
24	24 13C-OCDD	337100.626	0.858	NO	0.470	10.009	41.80	41.81	1.22	1.22	NO	319.6	80.0	1.44	
25	25 13C-2,3,7,8-TCDF	643252.032	0.732	NO	0.977	10.009	25.16	25.16	0.99	0.99	NO	186.4	93.3	0.693	
26	26 13C-1,2,3,7,8-PeCDF	478182.891	1.548	NO	0.778	10.009	29.98	29.98	1.18	1.18	NO	174.1	87.1	0.918	
27	27 13C-2,3,4,7,8-PeCDF	478370.313	1.509	NO	0.750	10.009	30.97	30.99	1.22	1.22	NO	180.7	90.4	0.952	
28	28 13C-1,2,3,4,7,8-HxCDF	338557.141	0.518	NO	0.845	10.009	33.79	33.79	0.99	0.99	NO	178.7	89.4	1.27	
29	29 13C-1,2,3,6,7,8-HxCDF	416727.484	0.525	NO	1.03	10.009	33.90	33.90	0.99	0.99	NO	181.0	90.6	1.05	
30	30 13C-2,3,4,6,7,8-HxCDF	369408.883	0.528	NO	0.893	10.009	34.48	34.46	1.01	1.01	NO	184.5	92.4	1.20	

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-14.qld

Last Altered: Monday, December 23, 2019 09:43:37 Pacific Standard Time

Printed: Monday, December 23, 2019 09:46:07 Pacific Standard Time

Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	328513.469	0.493	NO	0.734	10.009	35.38	35.36	1.04	1.03	NO	199.5	99.9	1.46	
32	32 13C-1,2,3,4,6,7,8-HpCDF	315807.305	0.439	NO	0.754	10.009	37.09	37.10	1.09	1.09	NO	186.8	93.5	0.880	
33	33 13C-1,2,3,4,7,8,9-HpCDF	208152.847	0.411	NO	0.539	10.009	39.12	39.15	1.14	1.15	NO	172.2	86.2	1.23	
34	34 13C-OCDF	473791.406	0.911	NO	0.593	10.009	41.99	42.01	1.23	1.23	NO	356.6	89.2	1.01	
35	35 37Cl-2,3,7,8-TCDD	184293.359			1.07	10.009	26.17	26.17	1.03	1.03	NO	80.68	101	0.0996	
36	36 13C-1,2,3,4-TCDD	426790.203	0.780	NO	1.00	10.009	25.45	25.45	1.00	1.00	NO	199.8	100	0.482	
37	37 13C-1,2,3,4-TCDF	705513.250	0.723	NO	1.00	10.009	23.55	23.55	1.00	1.00	NO	199.8	100	0.678	
38	38 13C-1,2,3,4,6,9-HxCDF	448001.453	0.536	NO	1.00	10.009	34.16	34.17	1.00	1.00	NO	199.8	100	1.08	
39	39 Total Tetra-Dioxins				0.925	10.009	24.62		0.00		NO			0.0907	
40	40 Total Penta-Dioxins				0.905	10.009	29.96		0.00		NO			0.0393	
41	41 Total Hexa-Dioxins				0.967	10.009	33.63		0.00		NO	0.0000		0.0806	0.1782
42	42 Total Hepta-Dioxins				1.04	10.009	38.80		0.00		NO	0.4516		0.202	0.4516
43	43 Total Tetra-Furans				0.938	10.009	23.61		0.00		NO			0.0311	
44	44 1st Func. Penta-Furans				0.976	10.009	27.04		0.00		NO			0.0180	
45	45 Total Penta-Furans				0.976	10.009	29.27		0.00		NO			0.0184	
46	46 Total Hexa-Furans				1.18	10.009	33.56		0.00		NO			0.0251	
47	47 Total Hepta-Furans				1.13	10.009	37.83		0.00		NO			0.0195	

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-14.qld

Last Altered: Monday, December 23, 2019 09:43:37 Pacific Standard Time

Printed: Monday, December 23, 2019 09:46:19 Pacific Standard Time

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Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.751	YES	33.63	33.19	0.0000	0.1782

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	4.75e2	2.03e5	0.946	NO	38.80	37.50	0.4516	0.4516

Tetra-Furans

#	Name	Area	IS Area	IRA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Penta-Furans function 1

#	Name	Area	IS Area	IRA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-14.qld

Last Altered: Monday, December 23, 2019 09:43:37 Pacific Standard Time

Printed: Monday, December 23, 2019 09:46:19 Pacific Standard Time

Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hepta-Furans

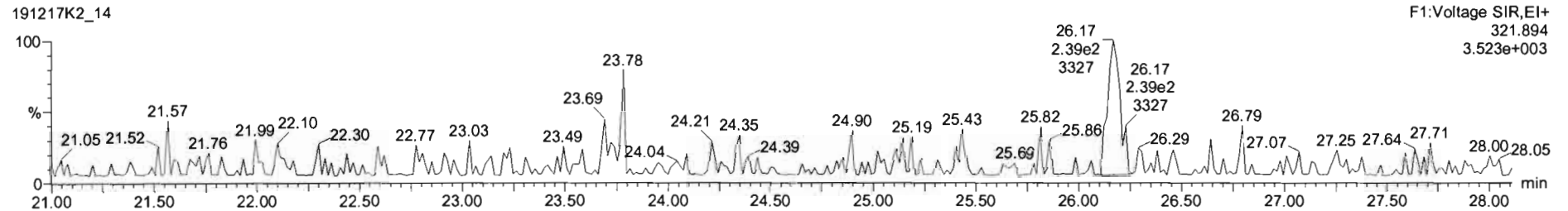
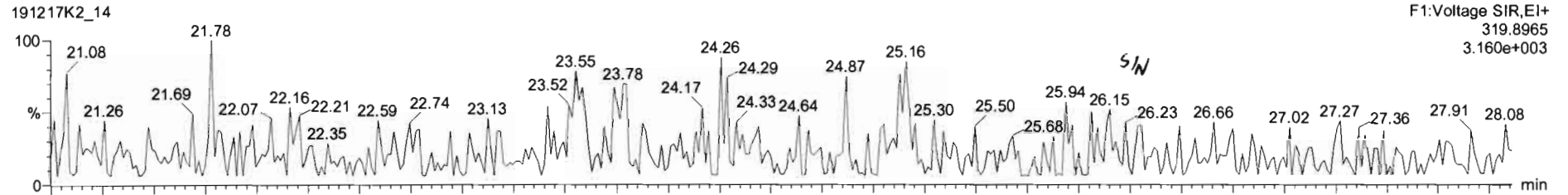
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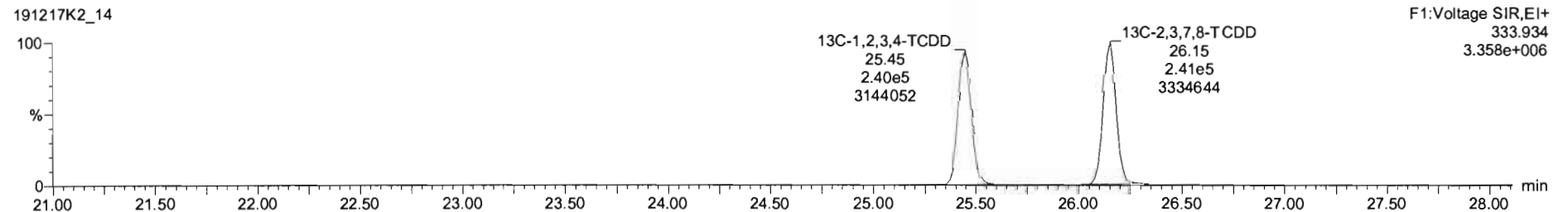
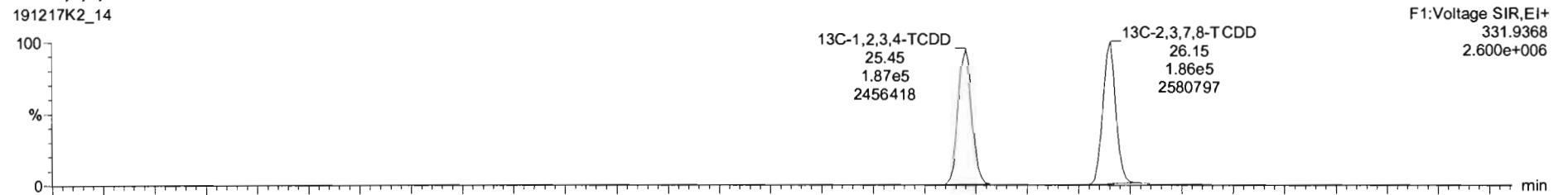
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2,3,7,8-TCDD



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



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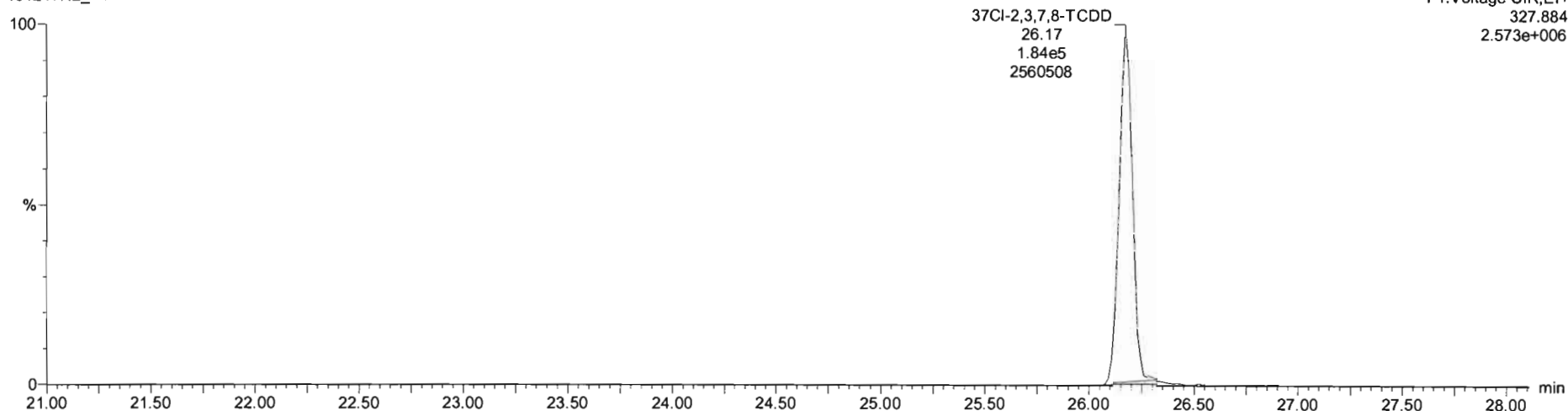
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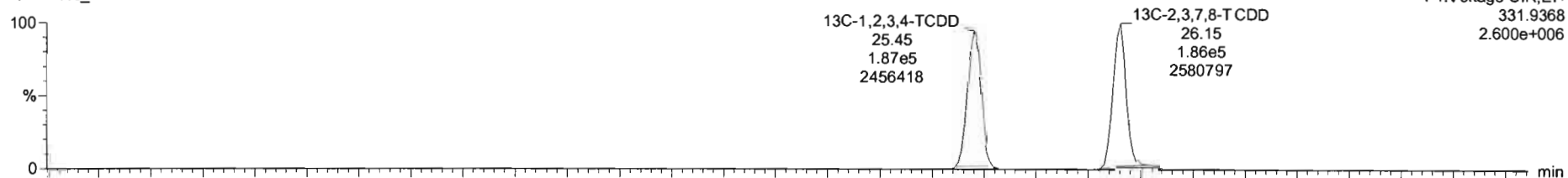
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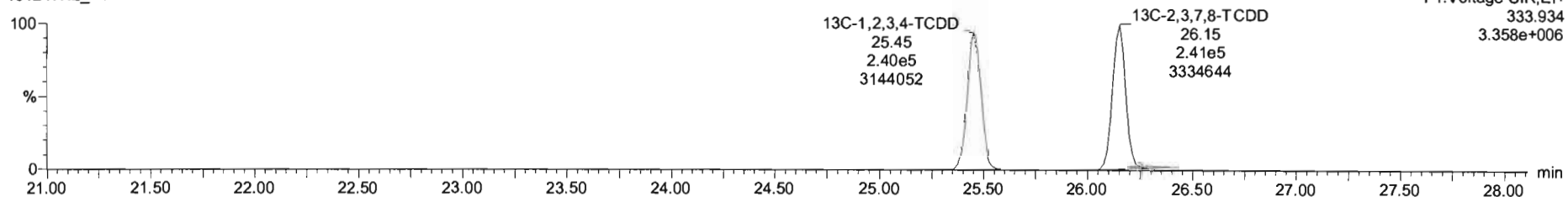


13C-1,2,3,4-TCDD

191217K2_14



191217K2_14



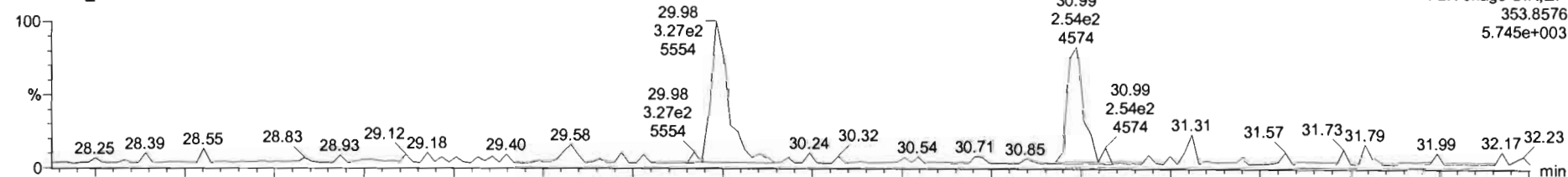
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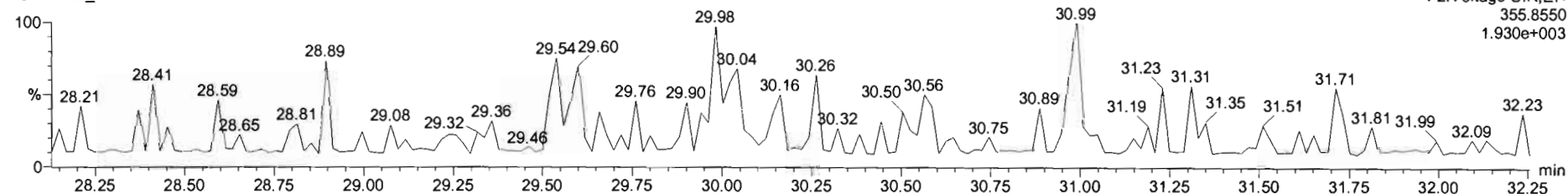
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1,2,3,7,8-PeCDD

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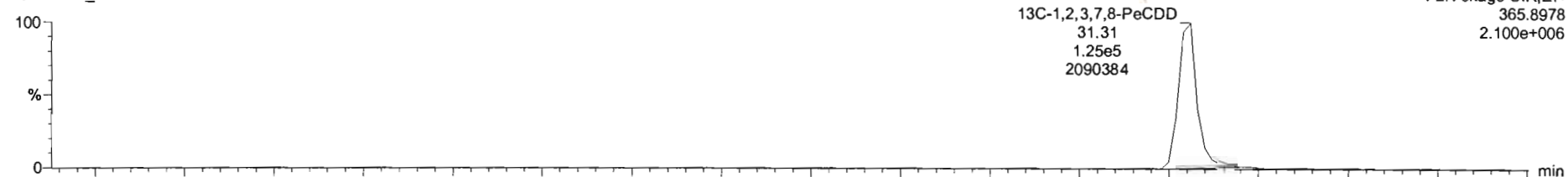


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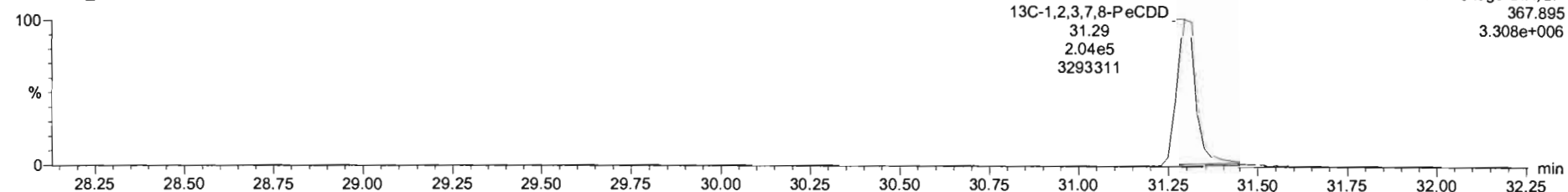


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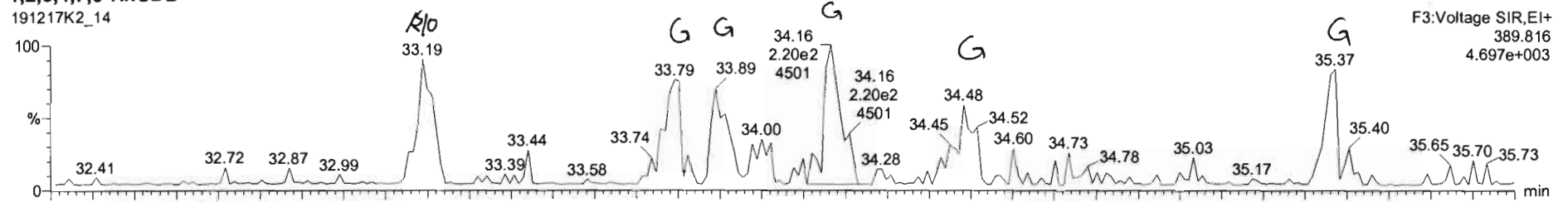
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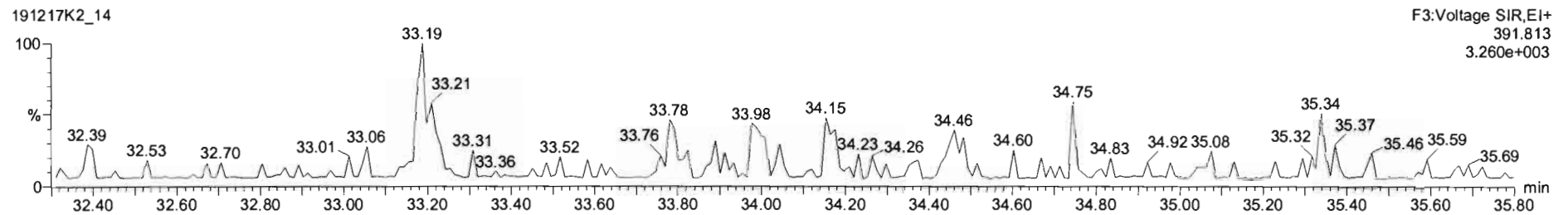
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1,2,3,4,7,8-HxCDD

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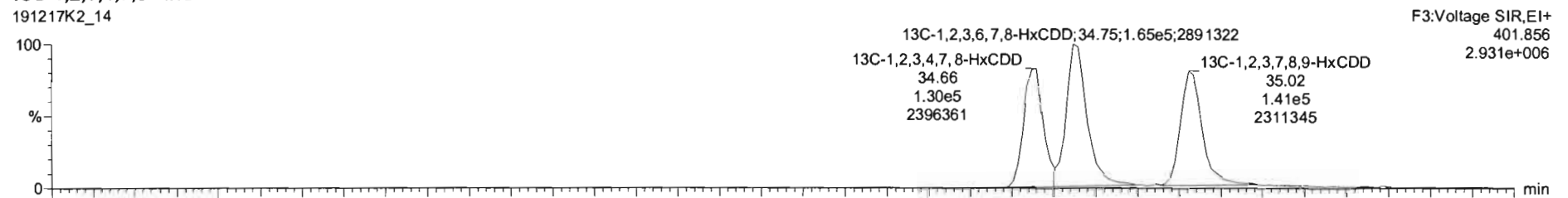


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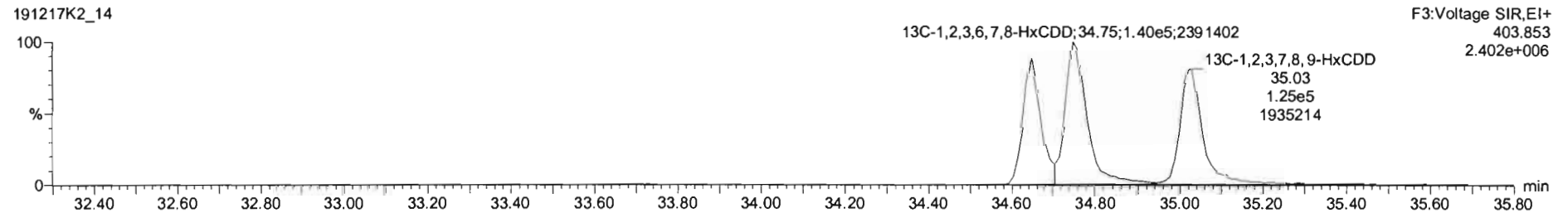


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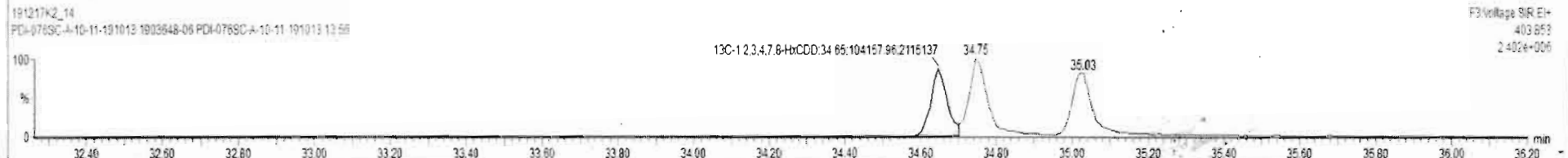
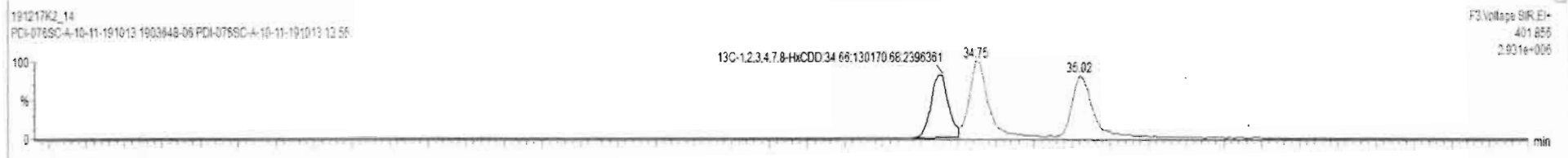
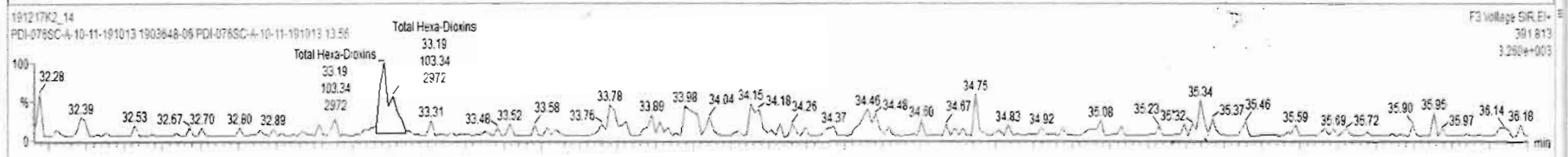
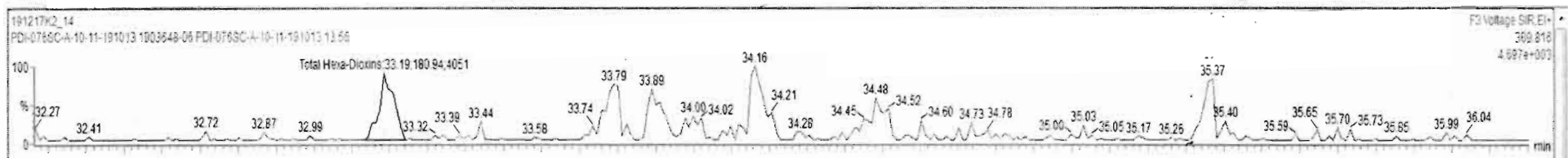
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191217K2_14 - 1903648-06 PDI-076SC-A-10-11-191013 13.56 - PDI-076SC-A-10-11-191013

#	Name	Resp	RA	n/y	RRF	w/Vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.16e5	0.44	NO	0.7542	10.009	37.09	37.10	1.085	1.086	NO	186.8	93.5	0.080	
33	13C-1,2,3,4,7,8,9-HpCDF	2.08e5	0.41	NO	0.5390	10.009	39.12	39.15	1.145	1.145	NO	172.2	86.2	1.23	
34	13C-OCDF	4.74e5	0.91	NO	0.5925	10.009	41.99	42.01	1.229	1.229	NO	266.6	89.2	1.01	
35	37Cl-2,3,7,8-TCDD	1.84e5			1.9895	10.009	26.17	26.17	1.028	1.028	NO	80.68	101	0.0996	
36	13C-1,2,3,4,7,8-TCDD	4.27e5	0.79	NO	1.0000	10.009	25.45	25.45	1.000	1.000	NO	199.8	100	0.482	
37	13C-1,2,3,4,7,8-TCDF	7.06e5	0.72	NO	1.0000	10.009	23.55	23.55	1.000	1.000	NO	199.8	100	0.678	
38	13C-1,2,3,4,6,9-HxCDF	4.48e5	0.54	NO	1.0000	10.009	34.16	34.17	1.000	1.000	NO	199.8	100	1.08	
39	Total Tetra-Dioxins				0.9249	10.009	24.62		0.000		NO			0.0907	
40	Total Penta-Dioxins				0.9048	10.009	25.96		0.000		NO			0.0393	
41	Total Hexa-Dioxins				0.9675	10.009	33.63		0.000		NO	0.0000		0.0806	0.1782
42	Total Hepta-Dioxins				1.0375	10.009	36.80		0.000		NO	0.4291		0.262	0.4291
43	Total Tetra-Furans				0.9276	10.009	23.61		0.000		NO			0.0311	
44	1st Func. Penta-Furans				0.9762	10.009	27.04		0.000		NO			0.0180	

#	Name	Pred. RT	RT	nt Resp	nt2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	33.19	1.609e2	1.033e2	1.240	1.75	YES	0.17618	0.00000



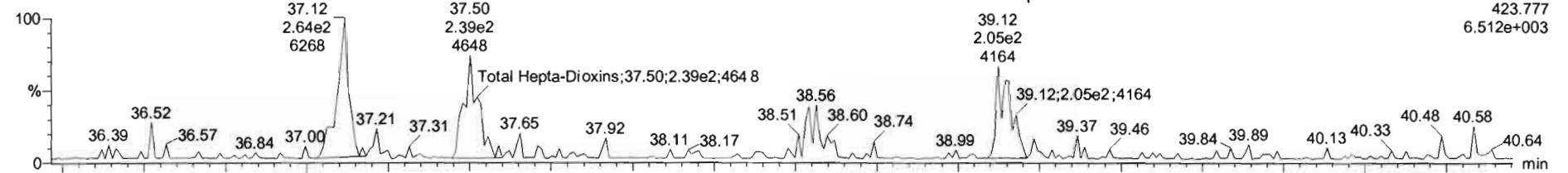
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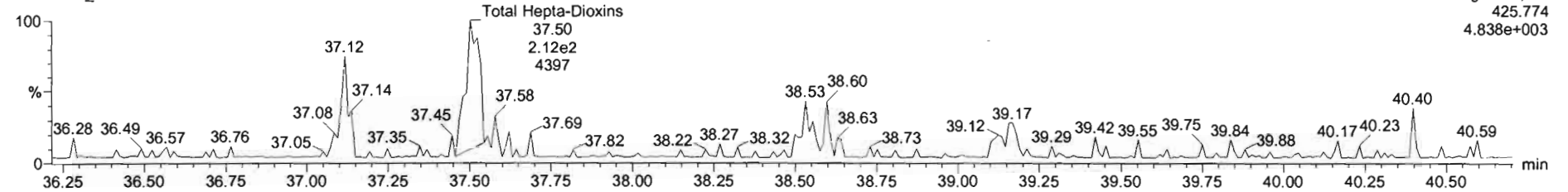
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1,2,3,4,6,7,8-HpCDD

191217K2_14

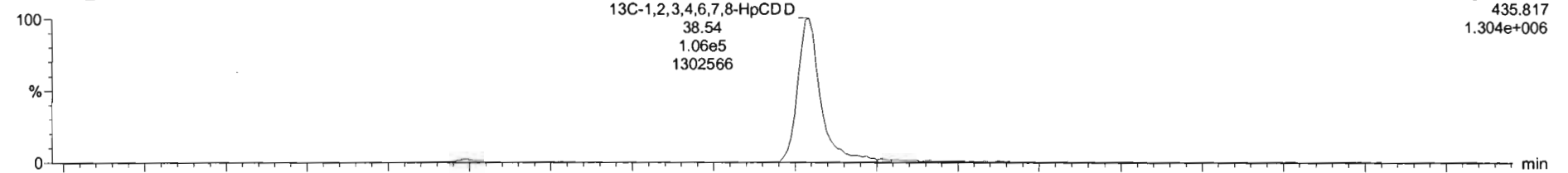


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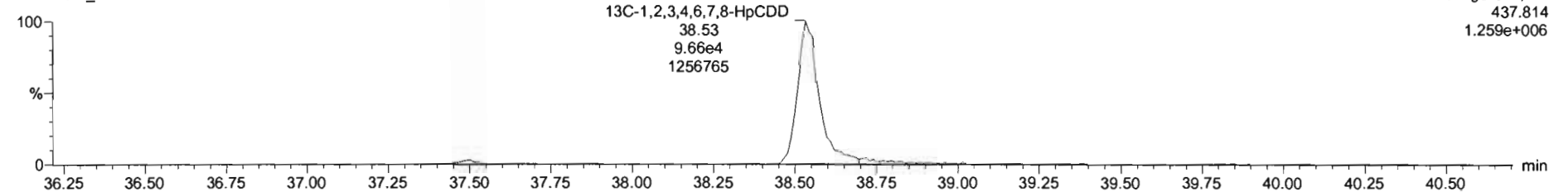


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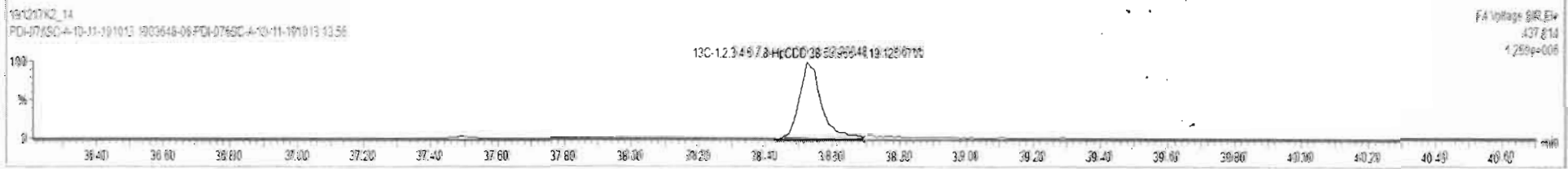
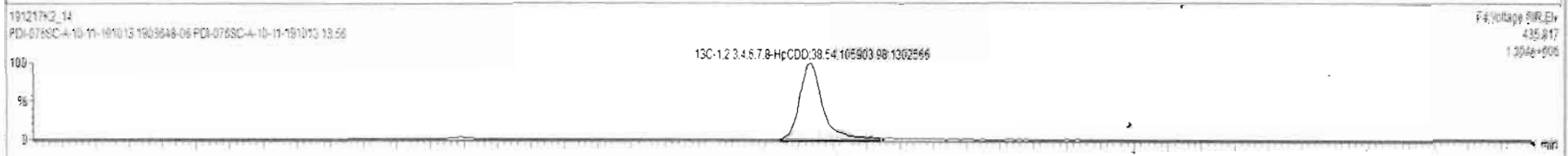
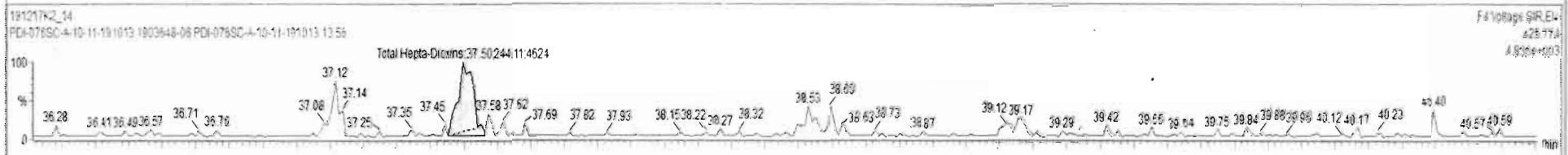
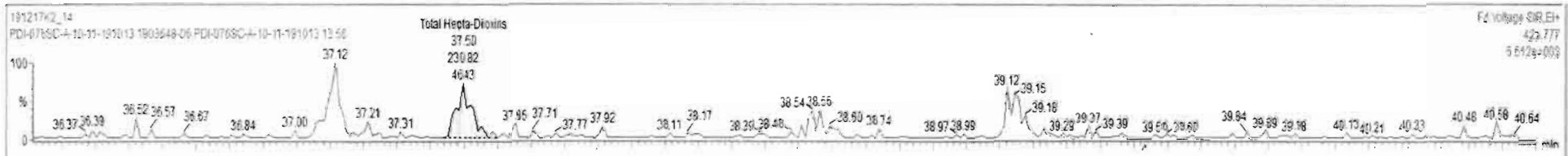
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191217K2_14 - 1903648-06-PDI-076SC-A-10-11-191013 13:56 - PDI-076SC-A-10-11-191013

#	Name	Resp	RA	nly	RF	wt/vol	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.19e5	0.44	NO	0.7542	10.009	37.09	37.10	1.085	1.086	NO	186.8	93.5	0.810	
33	13C-1,2,3,4,7,8,9-HpCDF	2.08e5	0.41	NO	0.5390	10.009	39.12	39.15	1.145	1.145	NO	172.2	86.2	1.23	
34	13C-OCDF	4.74e5	0.91	NO	0.5925	10.009	41.99	42.01	1.229	1.229	NO	396.6	99.2	1.01	
35	37C-2,3,7,8-TCDD	1.84e5			1.0095	10.009	26.17	26.17	1.028	1.028	NO	80.88	101	0.0999	
36	13C-1,2,3,4-TCDD	4.27e5	0.78	NO	1.0000	10.009	25.45	25.45	1.000	1.000	NO	199.8	100	0.482	
37	13C-1,2,3,4-TCDF	7.06e5	0.72	NO	1.0000	10.009	23.55	23.55	1.000	1.000	NO	199.8	100	0.678	
38	13C-1,2,3,4,6,8,9-HxCDF	4.48e5	0.54	NO	1.0000	10.009	34.16	34.17	1.000	1.000	NO	199.8	100	1.08	
39	Total Tetra-Dioxins				0.9249	10.009	24.82		0.000		NO			0.0907	
40	Total Penta-Dioxins				0.9046	10.009	29.96		0.000		NO			0.0793	
41	Total Hexa-Dioxins				0.9675	10.009	33.83		0.000		NO	0.0000		0.0806	0.1762
42	Total Hepta-Dioxins				1.0375	10.009	38.86		0.000		NO	0.4516		0.202	0.4516
43	Total Tetra-Furans				0.9376	10.009	23.61		0.000		NO			0.0311	
44	1st Func. Penta-Furans				0.9762	10.009	27.04		0.000		NO			0.0180	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	42 Total Hepta-Dioxins	38.80	37.50	2.308e2	2.441e2	1.040	0.95	NO	0.45158	0.45158



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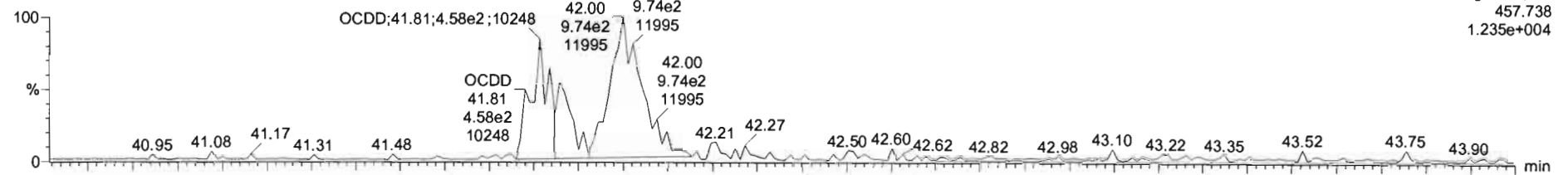
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

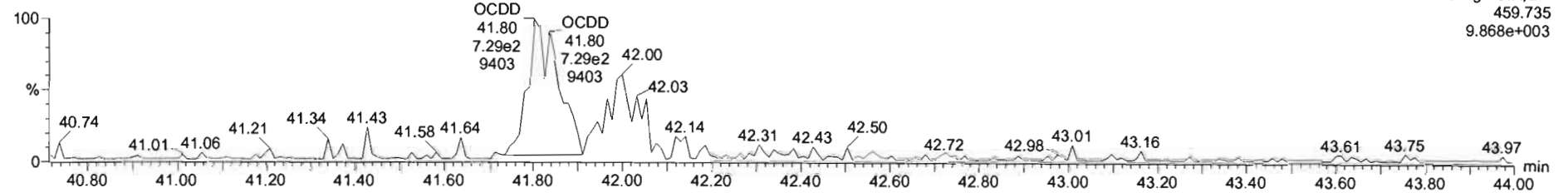
Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

OCDD

191217K2_14

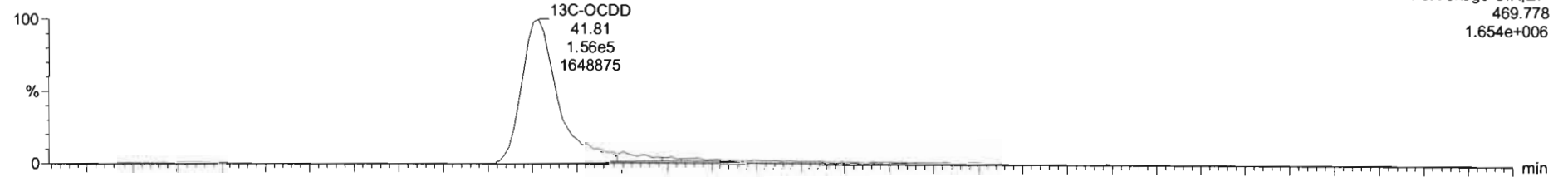


191217K2_14

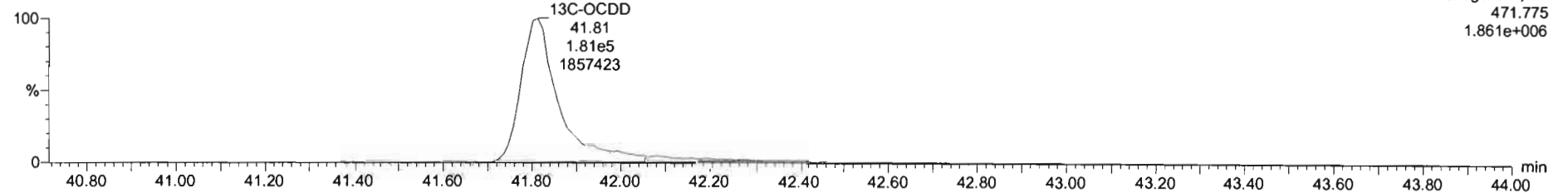


13C-OCDD

191217K2_14



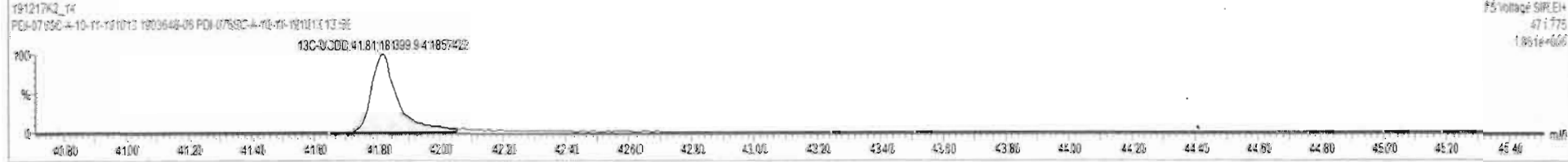
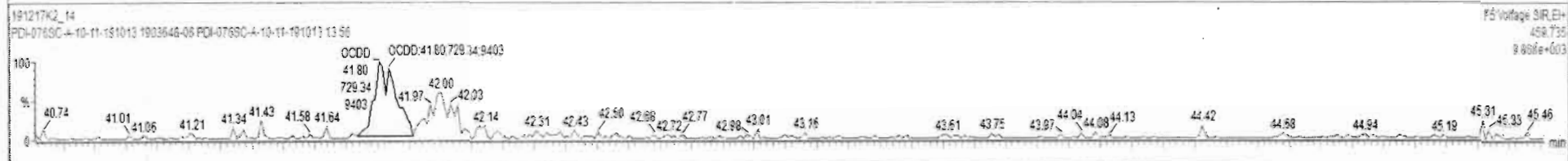
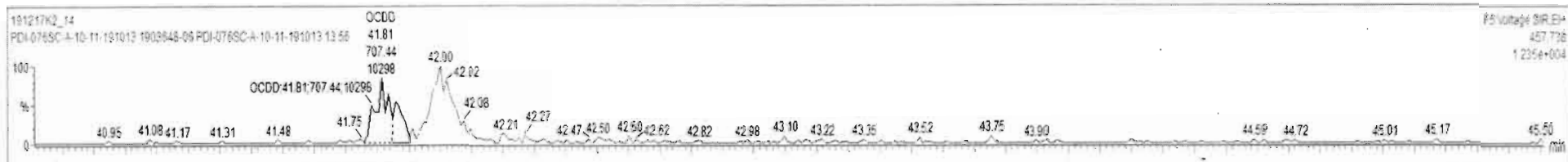
191217K2_14



191217K2_14 - 1903648-06 PDI-076SC-A-10-11-191013 13.56 - PDI-076SC-A-10-11-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
3	1,2,3,4,7,8-HxCDD				1.0691	10.009	34.67		1.000		YES			0.146	
4	1,2,3,6,7,8-HxCDD				0.9675	10.009	34.75		1.000		YES			0.129	
5	1,2,3,7,8,9-HxCDD				0.9778	10.009	35.06		1.001		YES			0.157	
6	1,2,3,4,6,7,8-HpCDD				1.0375	10.009	38.55		1.000		YES			0.292	
7	OCDD	1.44e3	0.97	NO	0.9718	10.009	41.81	41.81	1.000	1.000	NO	1.753		0.376	1.753
8	2,3,7,8-TCDF				0.9278	10.009	25.18		1.001		YES			0.0924	
9	1,2,3,7,8-PeCDF				0.9762	10.009	30.00		1.001		YES			0.0541	
10	2,3,4,7,8-PeCDF				1.0049	10.009	31.02		1.001		YES			0.0439	
11	1,2,3,4,7,8-HxCDF				1.2434	10.009	33.79		1.000		YES			0.0419	
12	1,2,3,6,7,8-HxCDF				1.0950	10.009	33.91		1.000		YES			0.0428	
13	2,3,4,6,7,8-HxCDF				1.1895	10.009	34.52		1.001		YES			0.0440	
14	1,2,3,7,8,9-HxCDF				1.0728	10.009	35.36		1.000		YES			0.0593	
15	1,2,3,4,6,7,8-HpCDF				1.1300	10.009	37.14		1.001		YES			0.0322	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc
1										



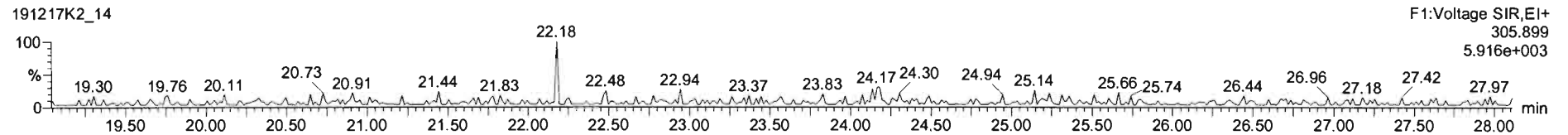
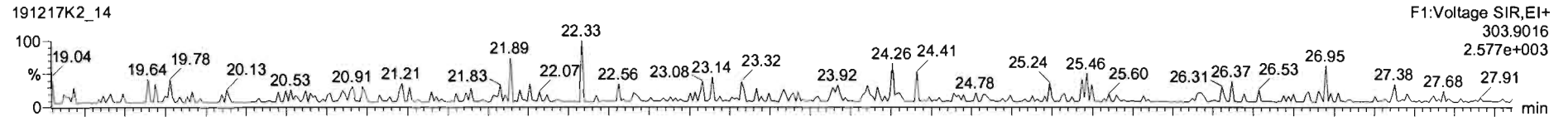
Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

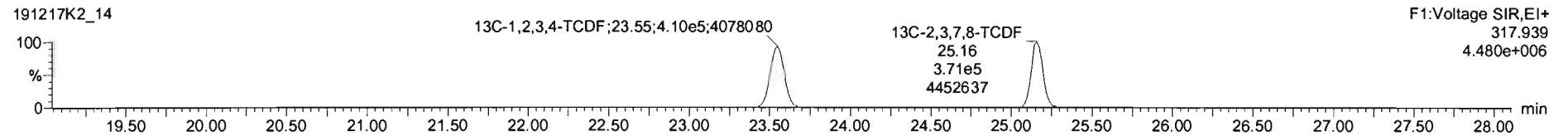
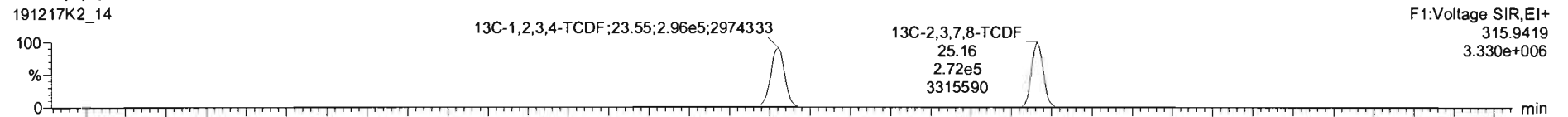
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

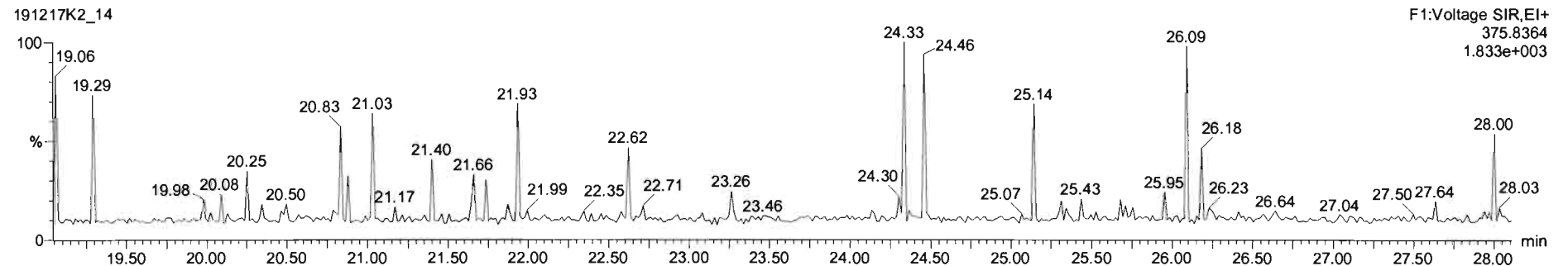
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

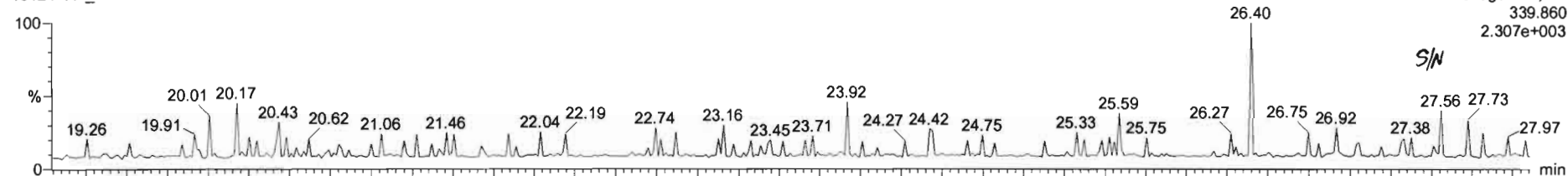
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

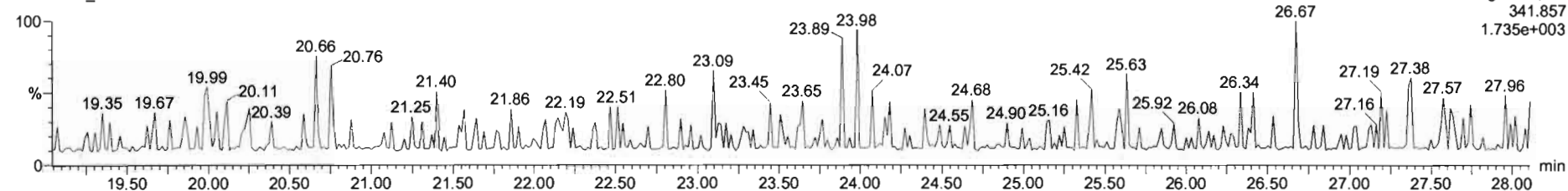
Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

1st Func. Penta-Furans

191217K2_14

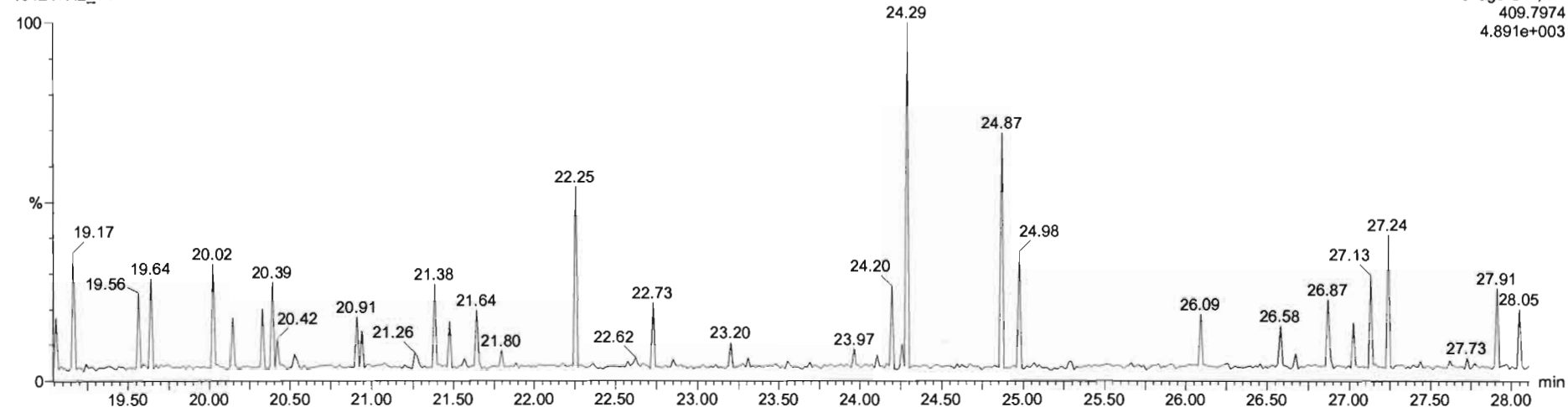


191217K2_14



DPE6

191217K2_14



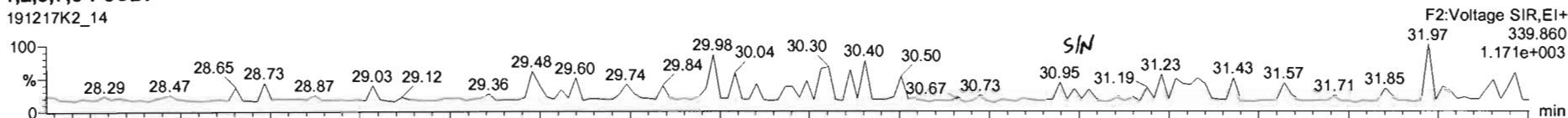
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

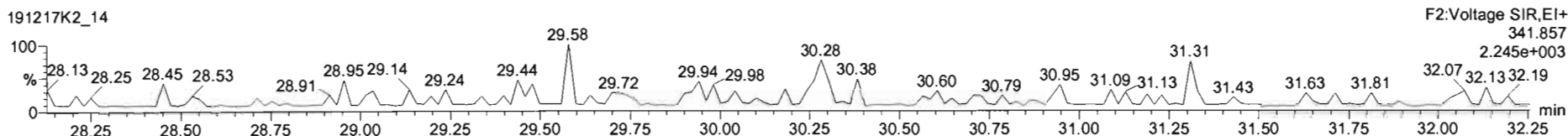
Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

1,2,3,7,8-PeCDF

191217K2_14

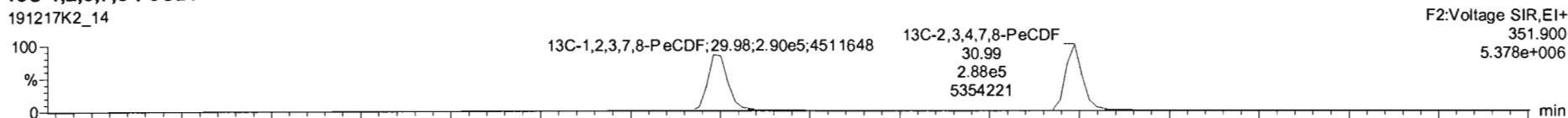


191217K2_14

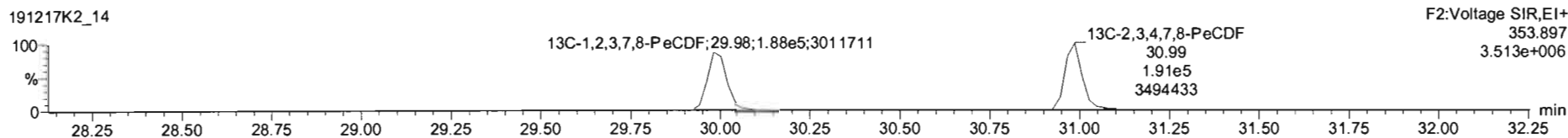


13C-1,2,3,7,8-PeCDF

191217K2_14

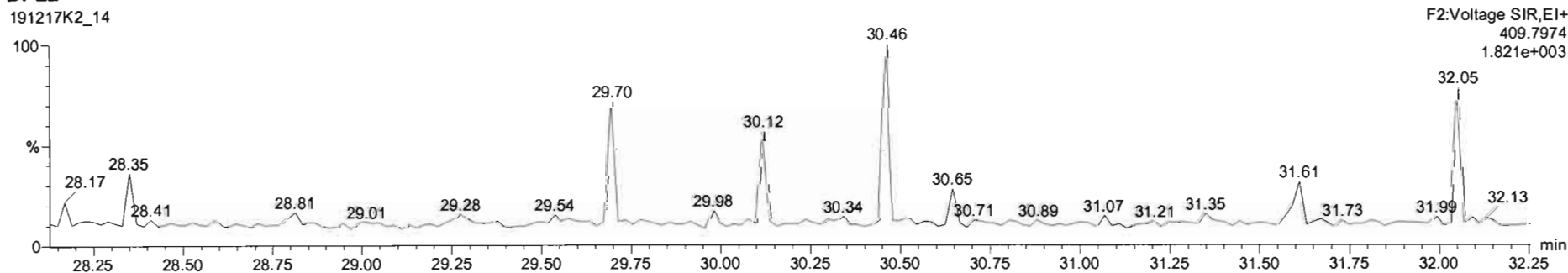


191217K2_14



DPE2

191217K2_14

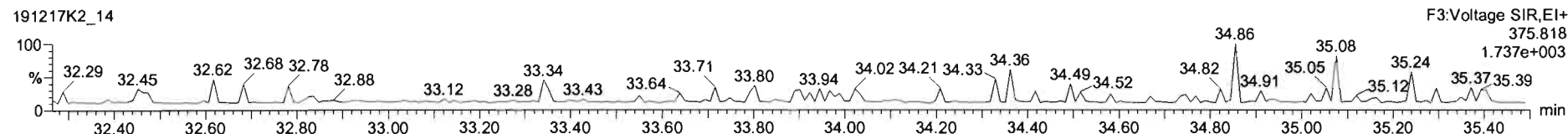
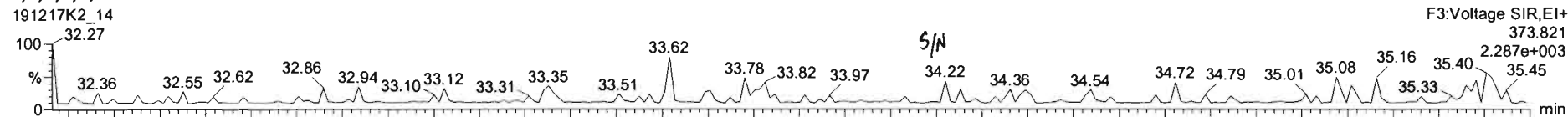


Dataset: Untitled

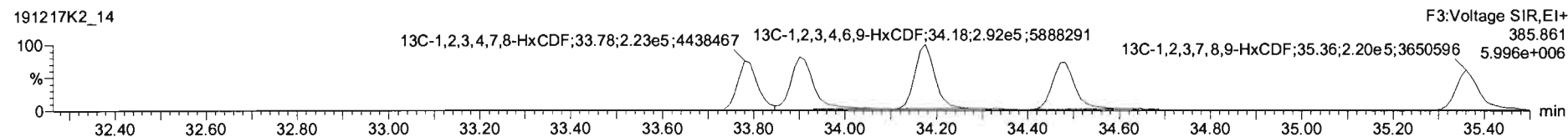
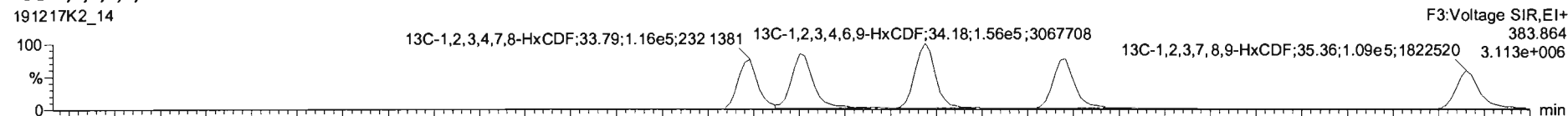
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

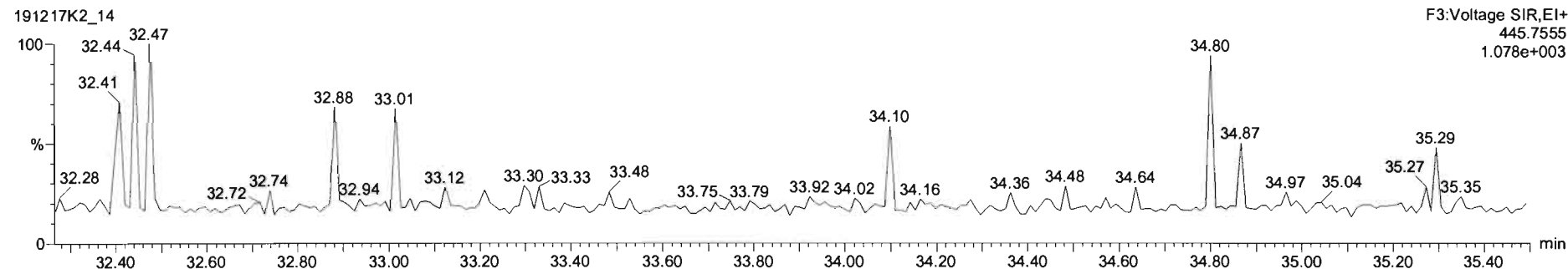
1,2,3,4,7,8-HxCDF



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



DPE3



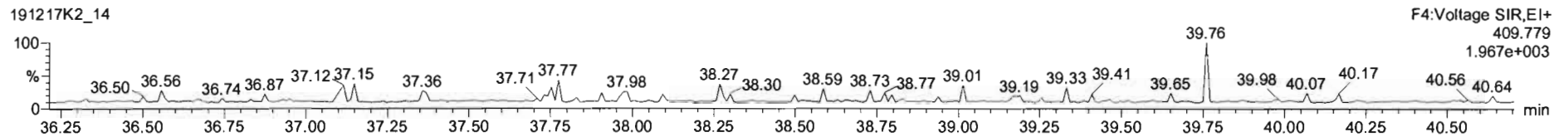
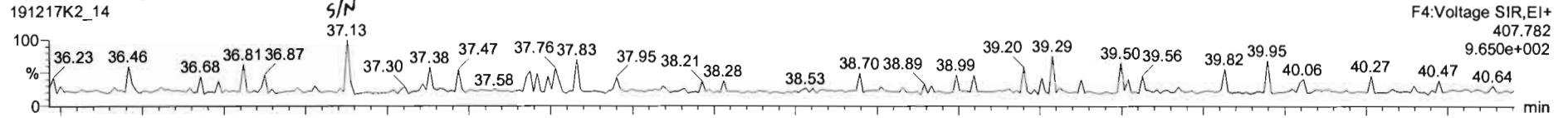
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

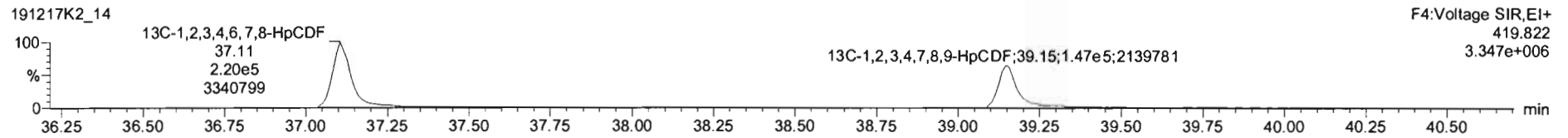
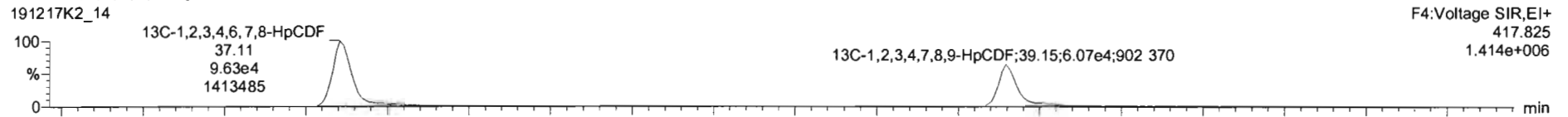
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

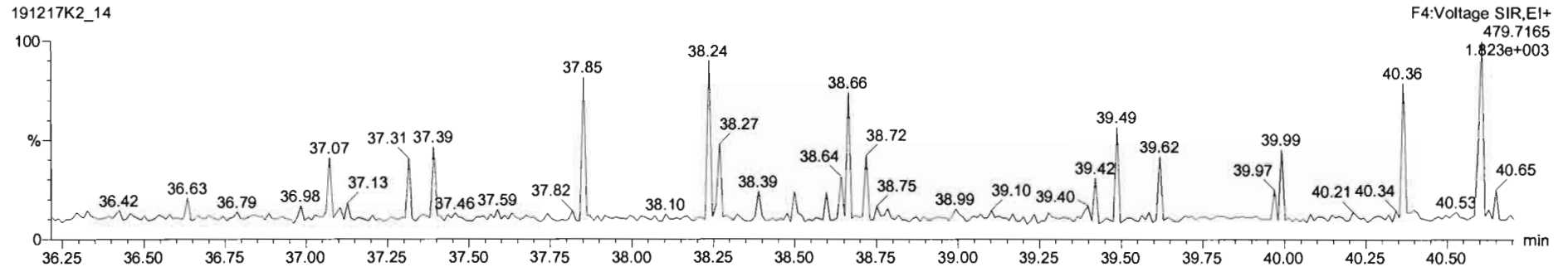
1,2,3,4,6,7,8-HpCDF



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



DPE4

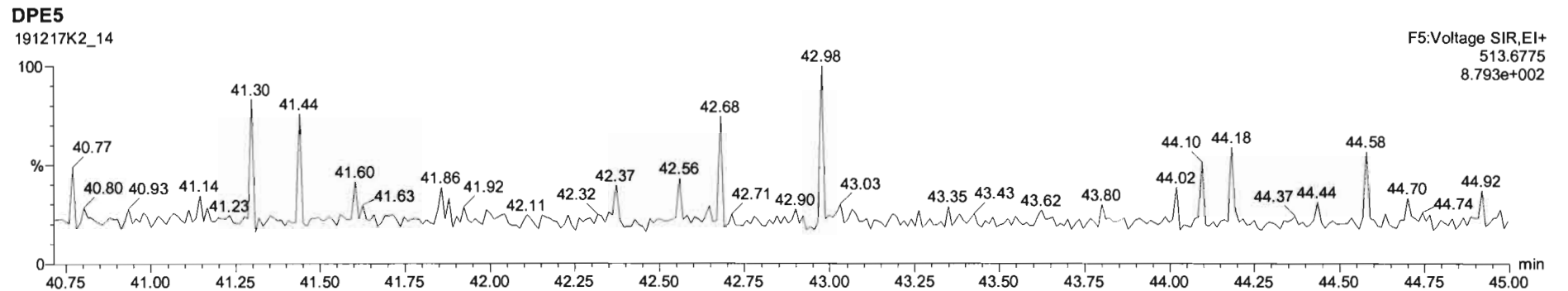
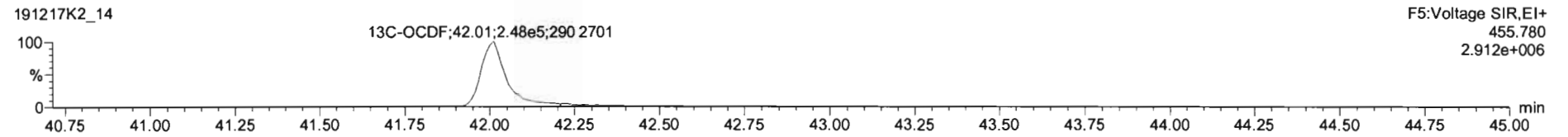
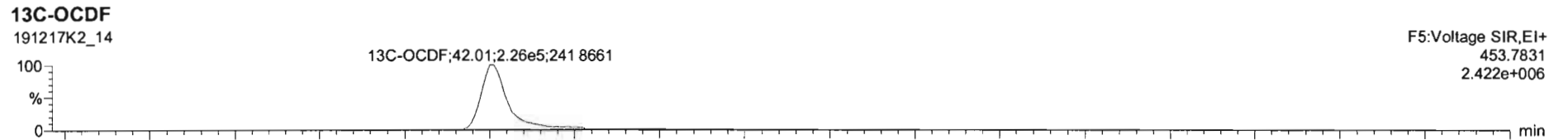
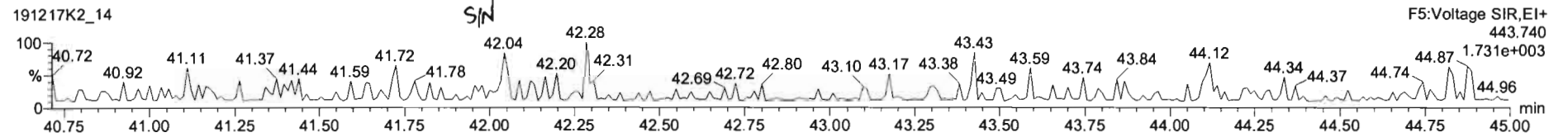
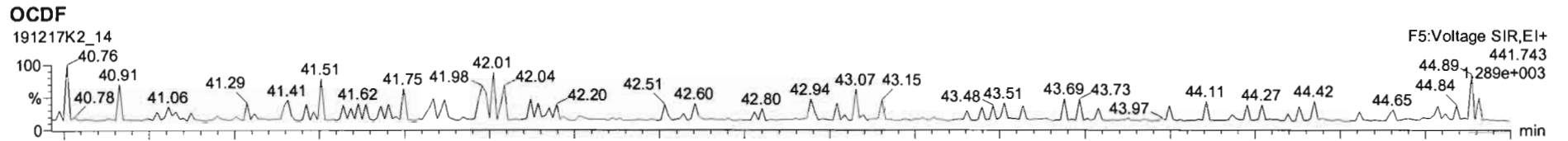


Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013

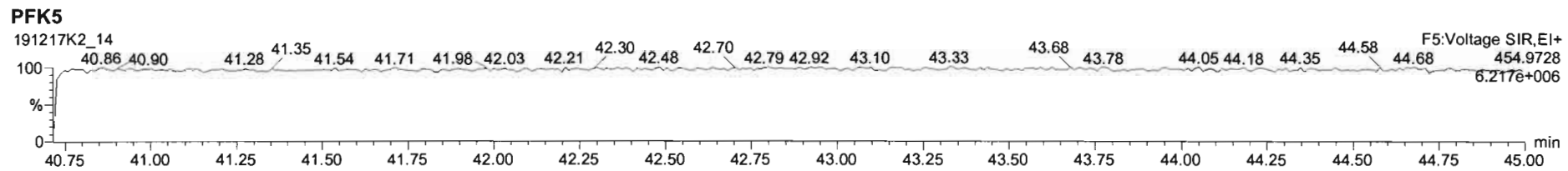
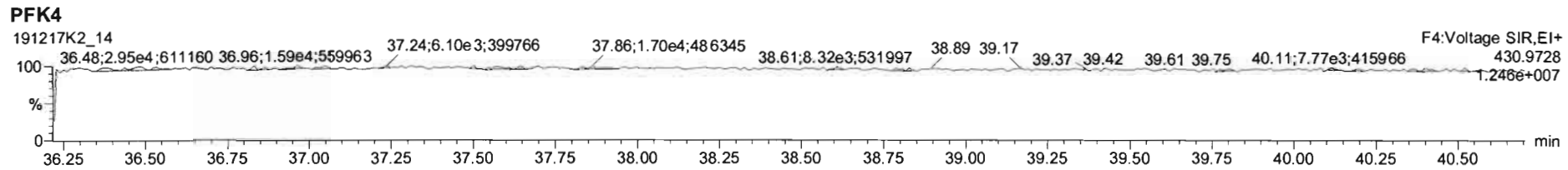
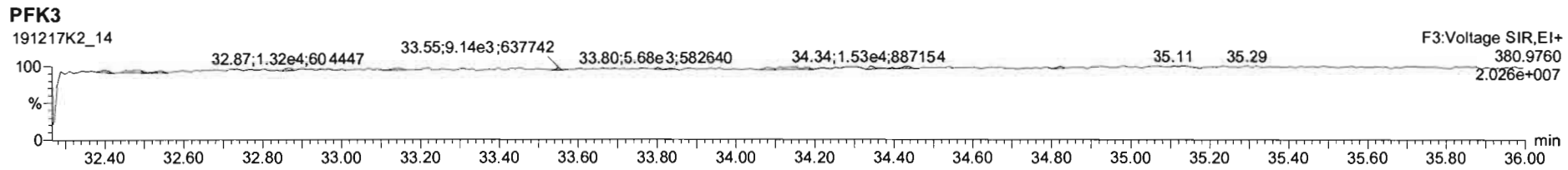
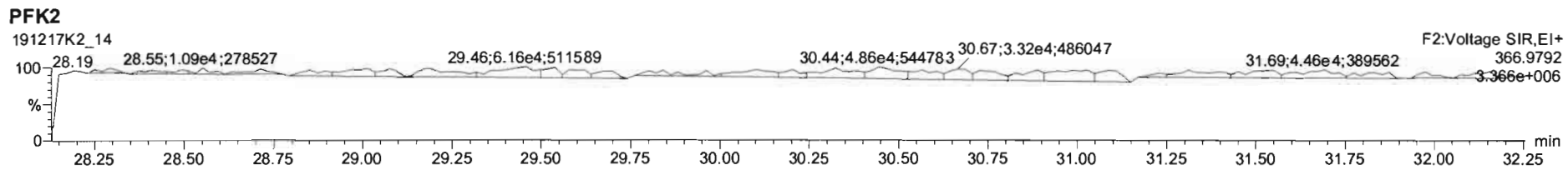
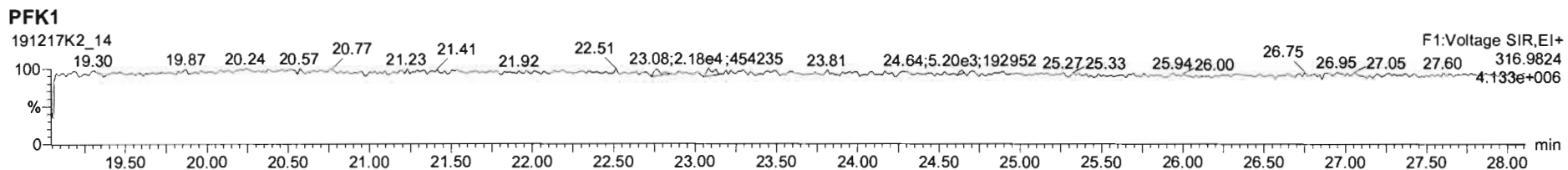


Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_14, Date: 18-Dec-2019, Time: 00:19:49, ID: 1903648-06 PDI-076SC-A-10-11-191013 13.56, Description: PDI-076SC-A-10-11-191013



Dataset: U:\VG11.PRO\Results\191217K2\191217K2-15.qld

Last Altered: Thursday, December 26, 2019 17:22:38 Pacific Standard Time

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EL 12/26/19

07/12/27/19

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.925	10.117	26.18		1.00		YES			0.168	
2	2 1,2,3,7,8-PeCDD				0.905	10.117	31.31		1.00		YES			0.0972	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.117	34.66		1.00		YES			0.145	
4	4 1,2,3,6,7,8-HxCDD				0.967	10.117	34.75		1.00		YES			0.128	
5	5 1,2,3,7,8,9-HxCDD				0.978	10.117	35.06		1.00		YES			0.157	
6	6 1,2,3,4,6,7,8-HpCDD	265.417	1.020	NO	1.04	10.117	38.55	38.59	1.00	1.00	NO	0.3183		0.155	0.3183
7	7 OCDD	1946.315	0.795	NO	0.972	10.117	41.80	41.80	1.00	1.00	NO	2.861		0.458	2.861
8	8 2,3,7,8-TCDF				0.938	10.117	25.20		1.00		YES			0.0806	
9	9 1,2,3,7,8-PeCDF				0.976	10.117	30.00		1.00		YES			0.0660	
10	10 2,3,4,7,8-PeCDF				1.00	10.117	31.02		1.00		YES			0.0544	
11	11 1,2,3,4,7,8-HxCDF				1.24	10.117	33.78		1.00		YES			0.0548	
12	12 1,2,3,6,7,8-HxCDF				1.10	10.117	33.91		1.00		YES			0.0524	
13	13 2,3,4,6,7,8-HxCDF				1.18	10.117	34.51		1.00		YES			0.0545	
14	14 1,2,3,7,8,9-HxCDF				1.07	10.117	35.36		1.00		YES			0.0838	
15	15 1,2,3,4,6,7,8-HpCDF				1.13	10.117	37.14		1.00		YES			0.0694	
16	16 1,2,3,4,7,8,9-HpCDF				1.26	10.117	39.15		1.00		YES			0.0925	
17	17 OCDF				1.10	10.117	42.00		1.00		YES			0.199	
18	18 13C-2,3,7,8-TCDD	349249.657	0.775	NO	1.05	10.117	26.16	26.15	1.03	1.03	NO	189.8	96.0	0.704	
19	19 13C-1,2,3,7,8-PeCDD	283371.789	0.621	NO	0.743	10.117	31.31	31.29	1.23	1.23	NO	217.4	110	0.812	
20	20 13C-1,2,3,4,7,8-HxCDD	189973.047	1.313	NO	0.646	10.117	34.65	34.65	1.01	1.01	NO	145.6	73.6	0.827	
21	21 13C-1,2,3,6,7,8-HxCDD	257990.328	1.095	NO	0.777	10.117	34.75	34.75	1.02	1.02	NO	164.5	83.2	0.688	
22	22 13C-1,2,3,7,8,9-HxCDD	216312.899	1.162	NO	0.659	10.117	35.02	35.02	1.02	1.02	NO	162.4	82.2	0.810	
23	23 13C-1,2,3,4,6,7,8-HpCDD	158892.890	1.048	NO	0.534	10.117	38.52	38.54	1.13	1.13	NO	147.3	74.5	0.908	
24	24 13C-OCDD	276810.782	0.881	NO	0.470	10.117	41.80	41.80	1.22	1.22	NO	291.4	73.7	1.33	
25	25 13C-2,3,7,8-TCDF	522906.250	0.735	NO	0.977	10.117	25.17	25.17	0.99	0.99	NO	183.3	92.7	0.724	
26	26 13C-1,2,3,7,8-PeCDF	412640.704	1.567	NO	0.778	10.117	30.00	29.98	1.18	1.18	NO	181.8	92.0	1.09	
27	27 13C-2,3,4,7,8-PeCDF	435955.922	1.496	NO	0.750	10.117	30.99	30.99	1.22	1.22	NO	199.2	101	1.13	
28	28 13C-1,2,3,4,7,8-HxCDF	294010.727	0.525	NO	0.845	10.117	33.79	33.78	0.99	0.99	NO	172.3	87.2	1.36	
29	29 13C-1,2,3,6,7,8-HxCDF	359231.657	0.514	NO	1.03	10.117	33.90	33.90	0.99	0.99	NO	173.3	87.7	1.12	
30	30 13C-2,3,4,6,7,8-HxCDF	319497.579	0.503	NO	0.893	10.117	34.48	34.47	1.01	1.01	NO	177.2	89.6	1.29	

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-15.qld

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Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	256078.484	0.528	NO	0.734	10.117	35.38	35.36	1.04	1.03	NO	172.7	87.4	1.57	
32	13C-1,2,3,4,6,7,8-HpCDF	243006.719	0.440	NO	0.754	10.117	37.09	37.10	1.09	1.09	NO	159.6	80.7	1.02	
33	13C-1,2,3,4,7,8,9-HpCDF	160619.234	0.433	NO	0.539	10.117	39.12	39.15	1.14	1.15	NO	147.6	74.7	1.42	
34	13C-OCDF	381831.516	0.909	NO	0.593	10.117	41.99	42.00	1.23	1.23	NO	319.1	80.7	1.13	
35	37Cl-2,3,7,8-TCDD	152828.125			1.07	10.117	26.18	26.18	1.03	1.03	NO	81.44	103	0.158	
36	13C-1,2,3,4-TCDD	346852.172	0.794	NO	1.00	10.117	25.45	25.47	1.00	1.00	NO	197.7	100	0.738	
37	13C-1,2,3,4-TCDF	576909.515	0.749	NO	1.00	10.117	23.55	23.57	1.00	1.00	NO	197.7	100	0.708	
38	13C-1,2,3,4,6,9-HxCDF	399170.828	0.530	NO	1.00	10.117	34.16	34.17	1.00	1.00	NO	197.7	100	1.15	
39	Total Tetra-Dioxins				0.925	10.117	24.62		0.00		NO			0.105	
40	Total Penta-Dioxins				0.905	10.117	29.96		0.00		NO			0.0415	
41	Total Hexa-Dioxins				0.967	10.117	33.63		0.00		NO	0.2513		0.0643	0.2513
42	Total Hepta-Dioxins				1.04	10.117	38.80		0.00		NO	0.3183		0.155	0.7591
43	Total Tetra-Furans				0.938	10.117	23.61		0.00		NO			0.0337	
44	1st Func. Penta-Furans				0.976	10.117	27.04		0.00		NO			0.0185	
45	Total Penta-Furans				0.976	10.117	29.27		0.00		NO			0.0258	
46	Total Hexa-Furans				1.18	10.117	33.56		0.00		NO			0.0387	
47	Total Hepta-Furans				1.13	10.117	37.83		0.00		NO			0.0432	

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-15.qld

Last Altered: Thursday, December 26, 2019 17:22:38 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:24:02 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	2.72e2	0.00e0	1.305	NO	33.63	33.20	0.2513	0.2513

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	0.00e0	1.59e5	1.442	YES	38.80	37.50	0.0000	0.4409
2	6 1,2,3,4,6,7,8-HpCDD	2.65e2	1.59e5	1.020	NO	38.55	38.59	0.3183	0.3183

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-15.qld

Last Altered: Thursday, December 26, 2019 17:22:38 Pacific Standard Time

Printed: Thursday, December 26, 2019 17:24:02 Pacific Standard Time

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

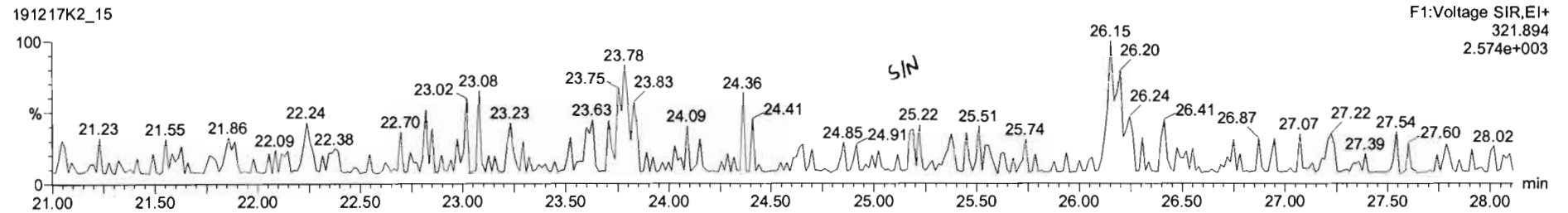
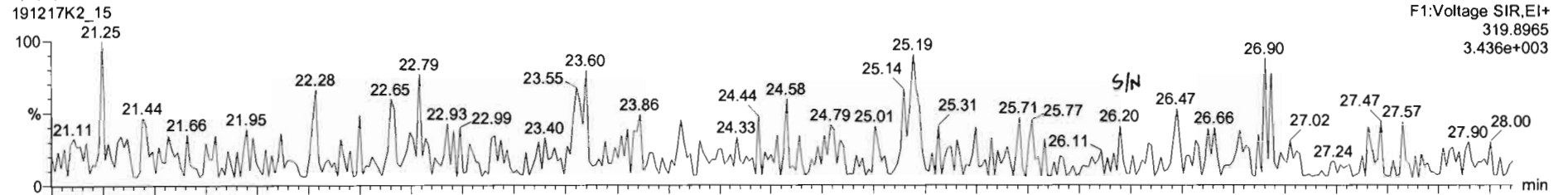
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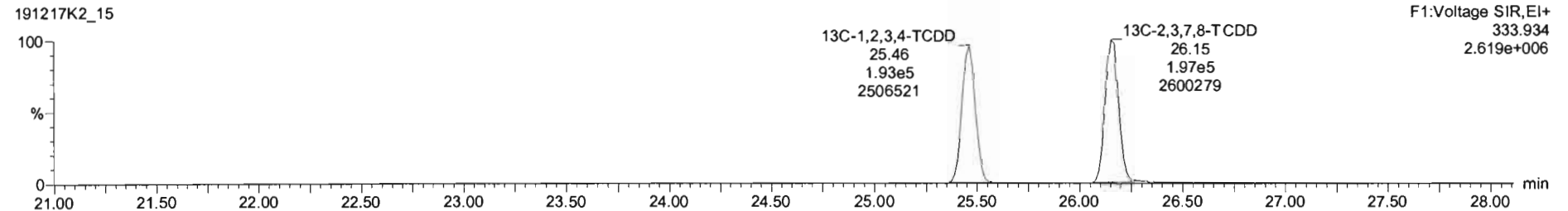
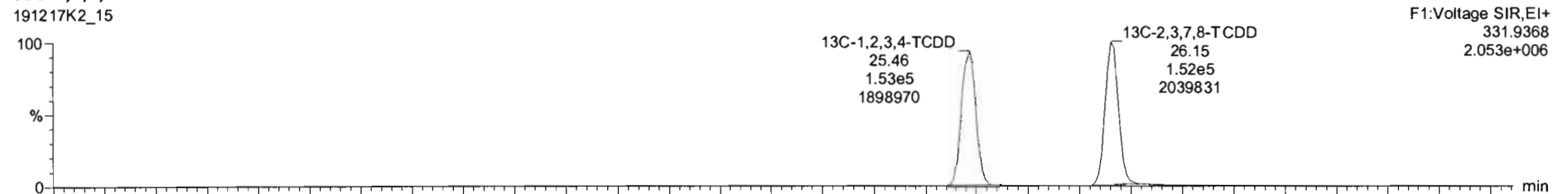
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Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

2,3,7,8-TCDD



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



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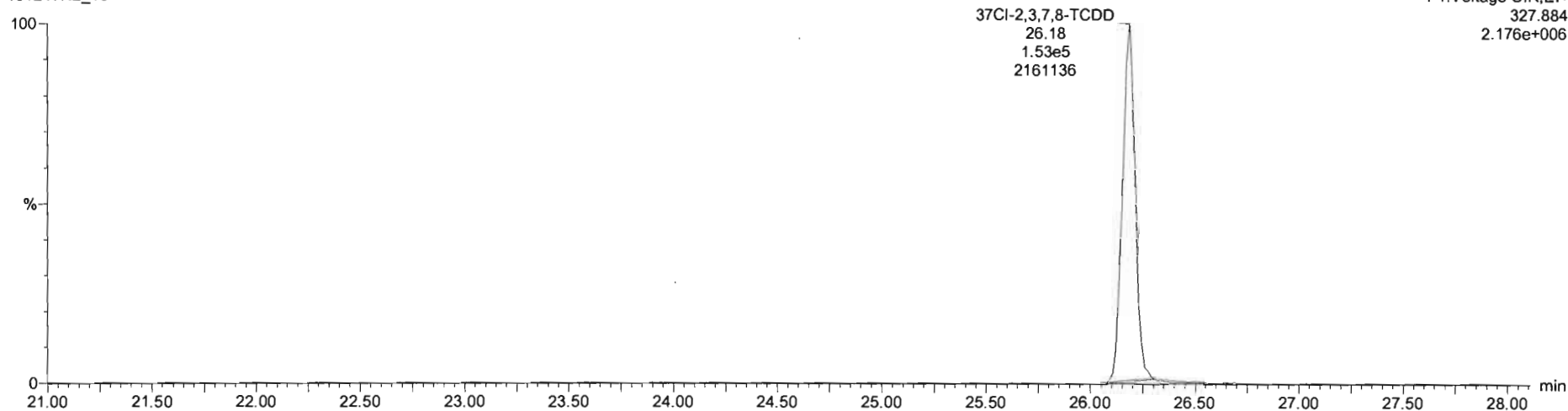
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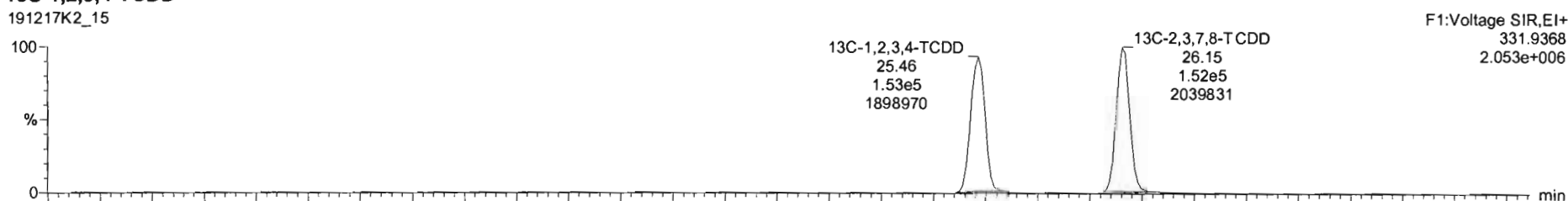
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191217K2_15

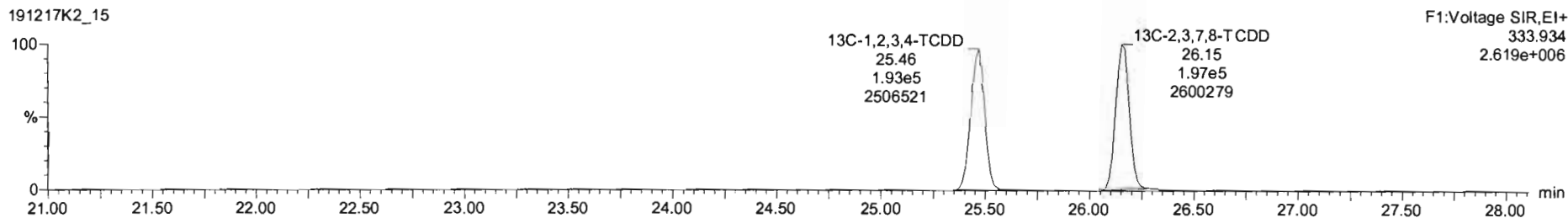


13C-1,2,3,4-TCDD

191217K2_15



191217K2_15



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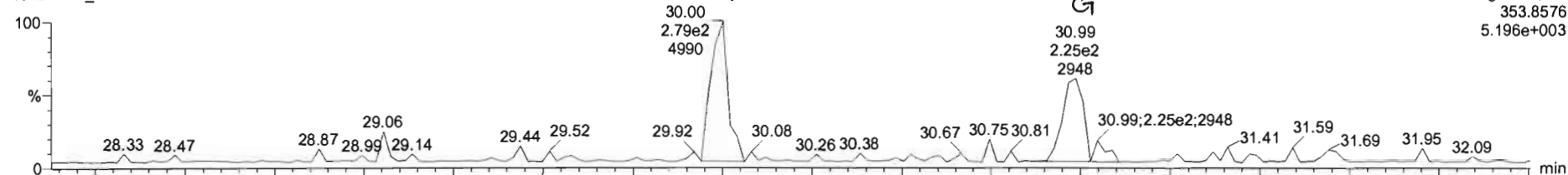
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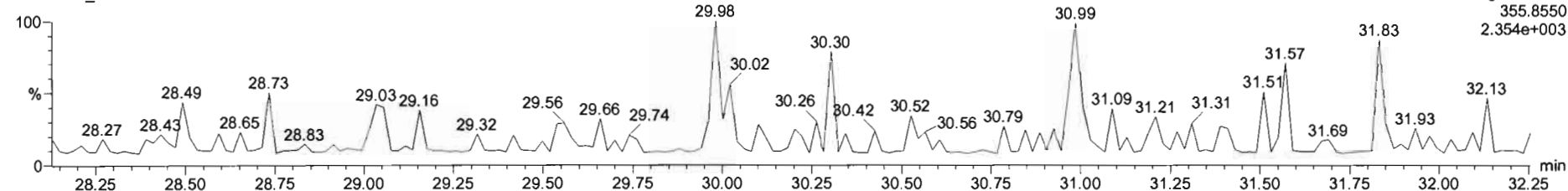
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1,2,3,7,8-PeCDD

191217K2_15

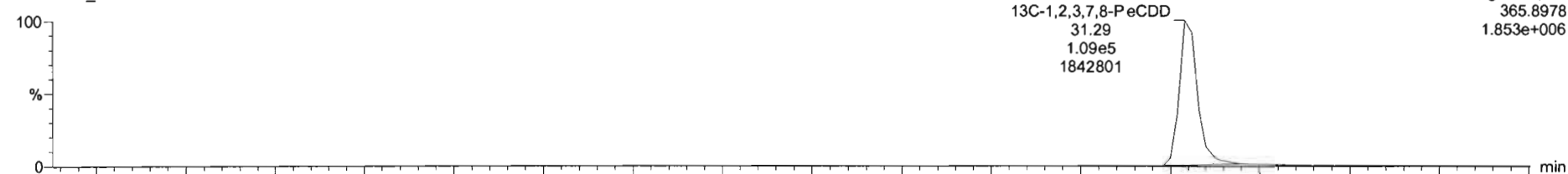


191217K2_15

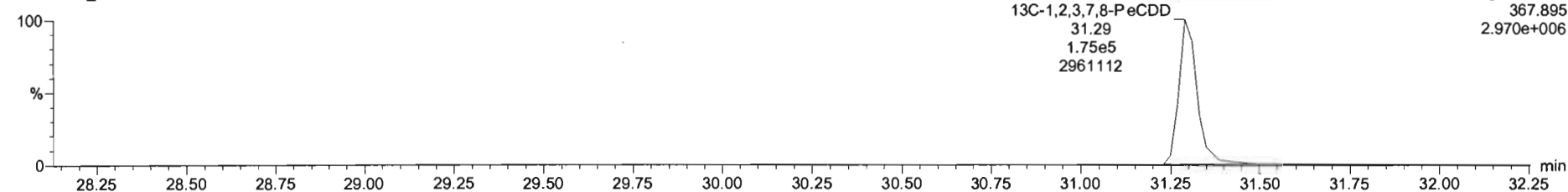


13C-1,2,3,7,8-PeCDD

191217K2_15



191217K2_15

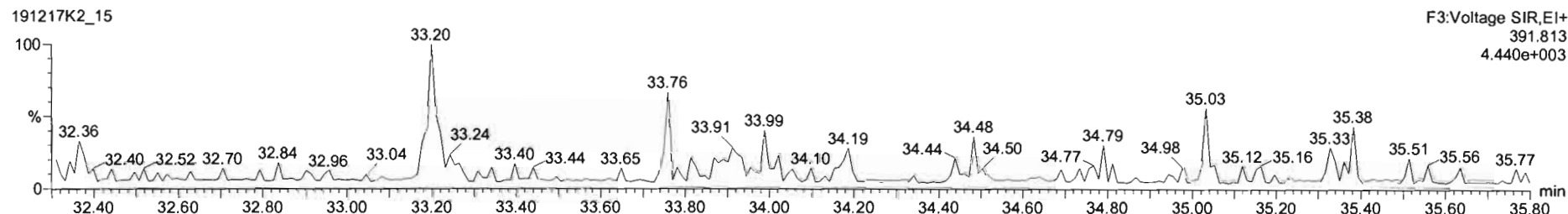
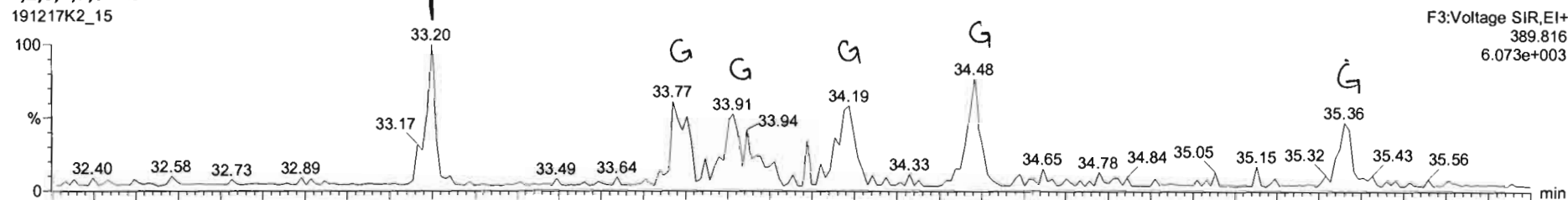


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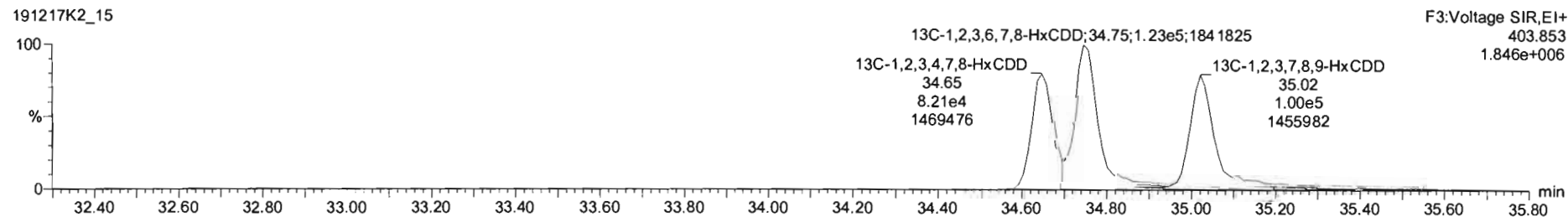
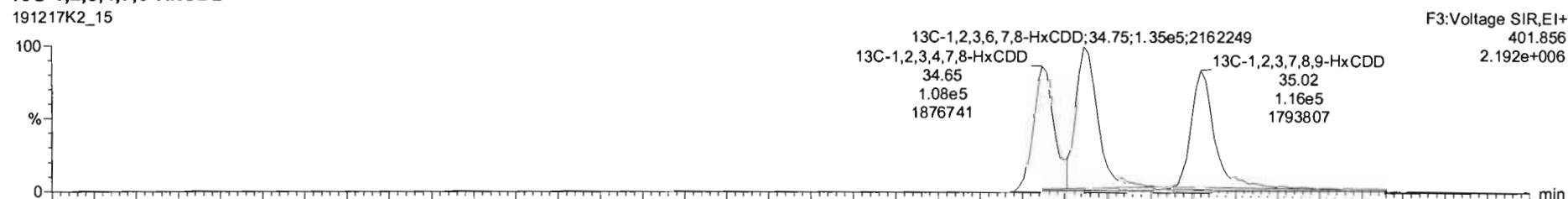
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Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

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



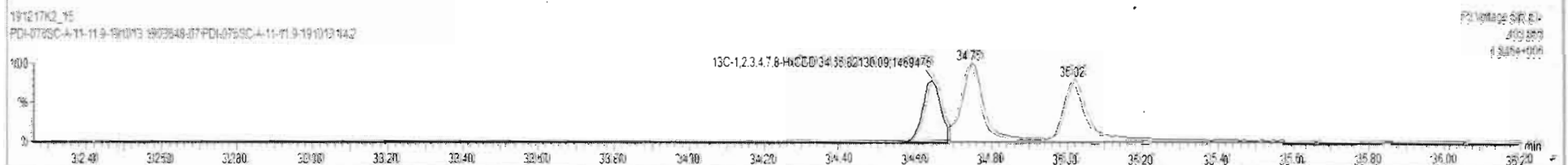
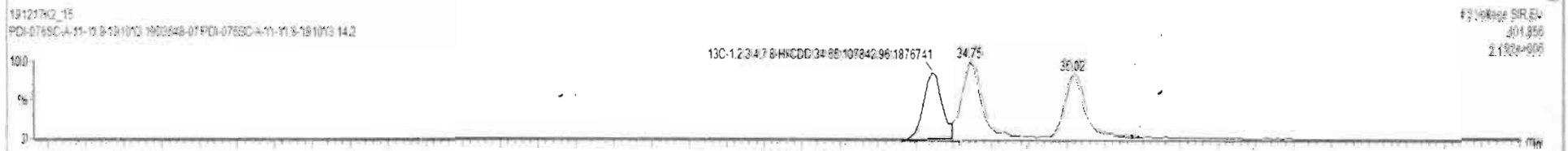
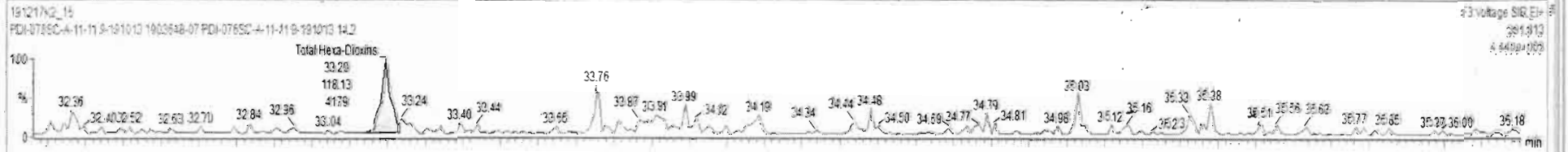
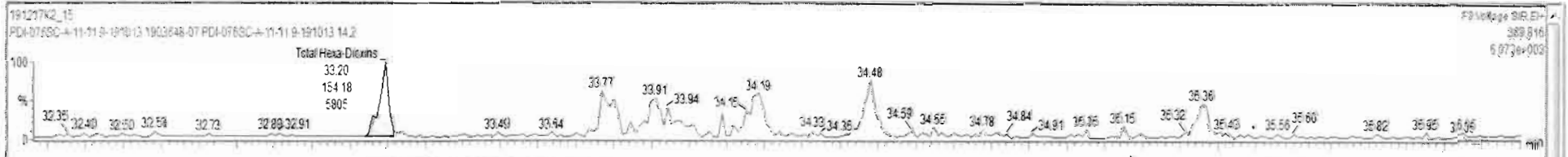
13C-1,2,3,4,7,8-HxCDD



191217K2_15 - 1903648-07 PDI-076SC-A-11-11-9-191013 14.2 - PDI-076SC-A-11-11-9-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6-SHXCDF	1.99e5	0.53	NO	1.0000	10.117	34.16	34.17	1.000	1.000	NO	197.7	100	1.15	
39	Total Tetra-Dioxins				0.9249	10.117	24.82		0.000		NO			0.105	
40	Total Penta-Dioxins				0.9046	10.117	29.96		0.000		NO			0.0415	
41	Total Hexa-Dioxins				0.9675	10.117	33.63		0.000		NO	0.2513		0.0643	0.2513
42	Total Hepta-Dioxins				1.0375	10.117	38.80		0.000		NO			0.155	
43	Total Tetra-Furans				0.9276	10.117	23.61		0.000		NO			0.0337	
44	1st Func. Penta-Furans				0.9762	10.117	27.04		0.000		NO			0.0185	
45	Total Penta-Furans				0.9762	10.117	29.27		0.000		NO			0.0252	
46	Total Hexa-Furans				1.1808	10.117	33.56		0.000		NO			0.0367	
47	Total Hepta-Furans				1.1300	10.117	37.83		0.000		NO			0.0432	
48	PFK1														
49	PFK2														
50	PFK3														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	33.20	1.542e2	1.161e2	1.240	1.31	NO	0.25127	0.25127



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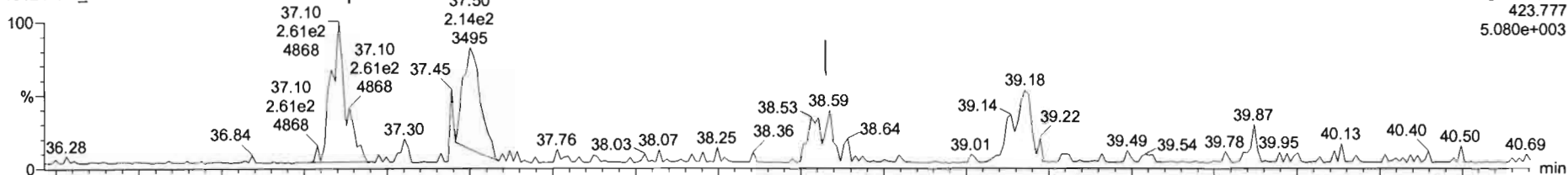
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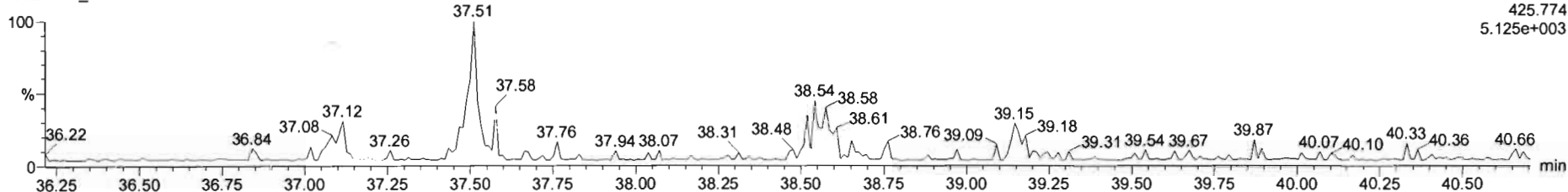
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1,2,3,4,6,7,8-HpCDD

191217K2_15

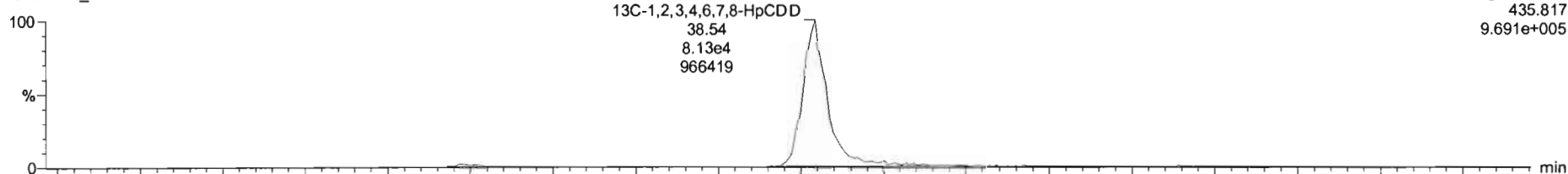


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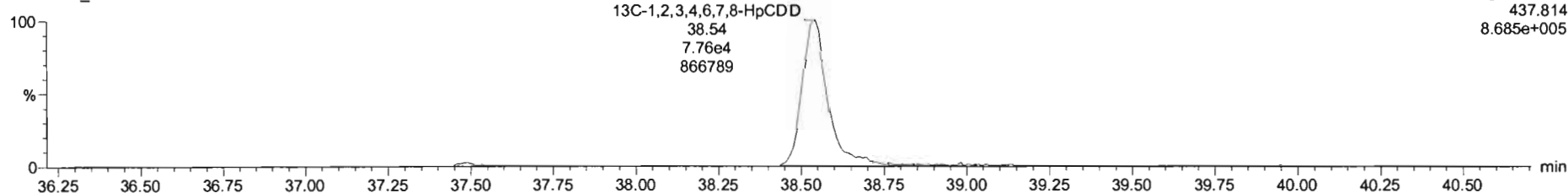


13C-1,2,3,4,6,7,8-HpCDD

191217K2_15



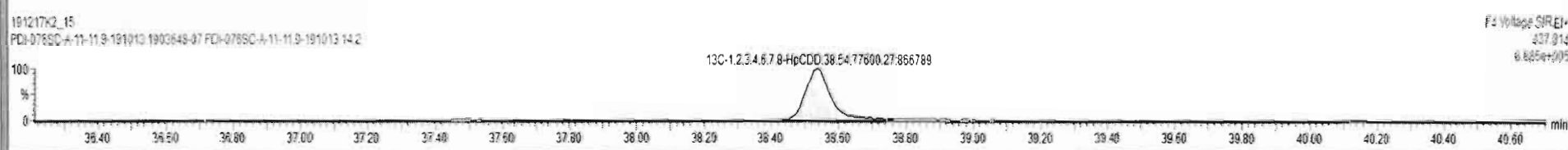
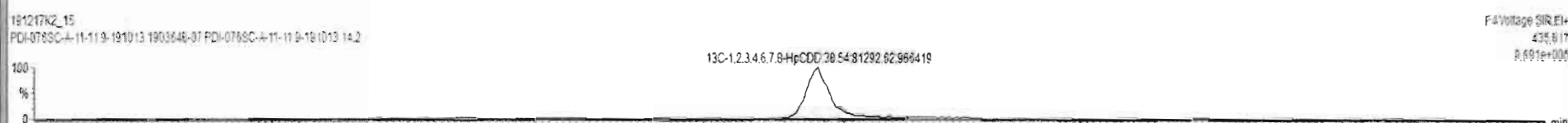
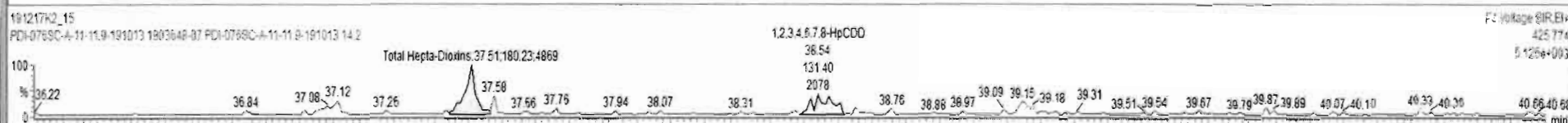
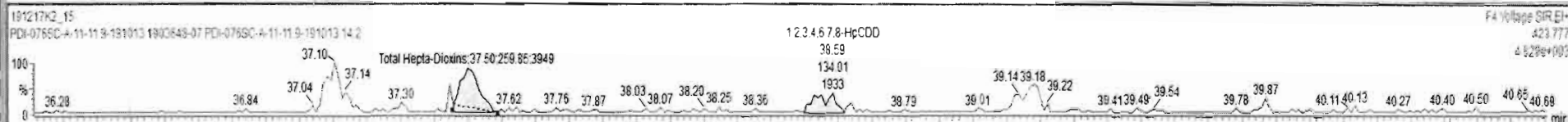
191217K2_15



191217K2_15 - 1903648-07 PDI-076SC-A-11-11.9-191013 14.2 - PDI-076SC-A-11-11.9-191013

Name	Conc	DL	%Rec	EMPC	Abs Resp	RFF	RT	#	ES	RA	Y/N	PRT	Acq Date	Acq Time	F#	Chr Noise	ID	Sample Text	Factor1	SIV1	CalFile
36 13C-1,2,3,4-TCDD	197.677	0.738	100.0		3.468e5	1.000	25.47	36	36	0.754	NO	1.000	18-Dec-19	01:09:29	2793.011	1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
37 13C-1,2,3,4-TCDF	197.677	0.708	100.0		5.769e5	1.000	23.57	37	37	0.749	NO	1.000	18-Dec-19	01:09:29	3217.719	1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
38 13C-1,2,3,4,6,8-HpCDF	197.677	1.15	100.0		3.992e5	1.000	34.17	38	38	0.530	NO	1.000	18-Dec-19	01:09:29	9411.545	1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
39 Total Tetra-Dioxins		0.105				0.925		39					18-Dec-19	01:09:29		1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
40 Total Penta-Dioxins		0.0415				0.905		40					18-Dec-19	01:09:29		1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
41 Total Hexa-Dioxins	0.251274	0.0843		0.251274		0.967		41					18-Dec-19	01:09:29		1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
42 Total Hepta-Dioxins	0.318265	0.155		0.759137		1.038		42					18-Dec-19	01:09:29		1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
43 Total Tetra-Furans		0.0337				0.935		43					18-Dec-19	01:09:29		1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
44 1st Func. Penta-Furans		0.0185				0.978		44					18-Dec-19	01:09:29		1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
45 Total Penta-Furans		0.0258				0.978		45					18-Dec-19	01:09:29		1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
46 Total Hexa-Furans		0.0387				1.181		46					18-Dec-19	01:09:29		1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
47 Total Hepta-Furans		0.0432				1.110		47					18-Dec-19	01:09:29		1903648-07	PDI-076SC-A-11...	1.0	10.1	db5_1...	
48 PFK1								48								1903648-07					

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	nty	Resp	Conc	EMPC
1 Total Hepta-Dioxins	37.50	3.949e3	4.669e3	2.598e2	1.802e2	1.44	YES	0.900e0	0.000	0.441
2 1,2,3,4,6,7,8-HpCDD	38.59	1.933e3	2.078e3	1.349e2	1.314e2	1.02	NO	2.854e2	0.318	0.318

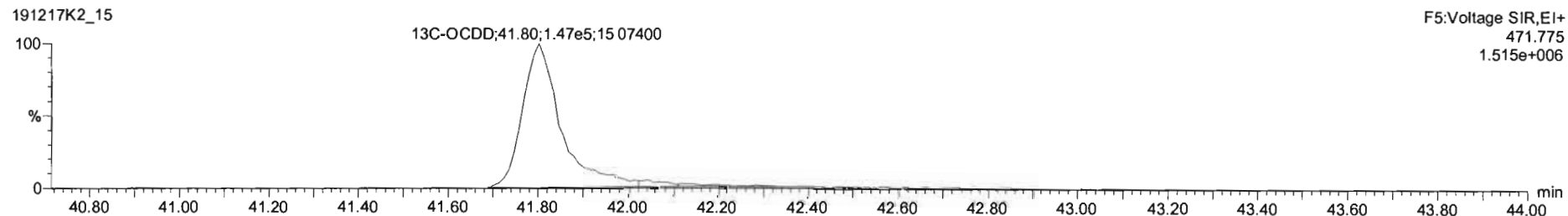
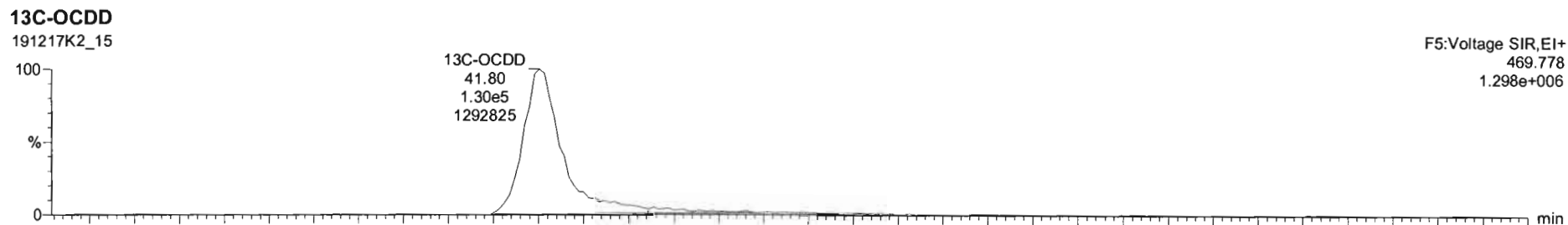
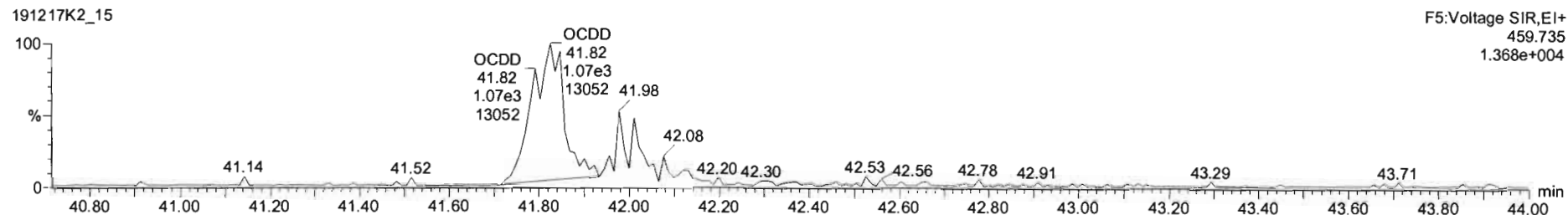
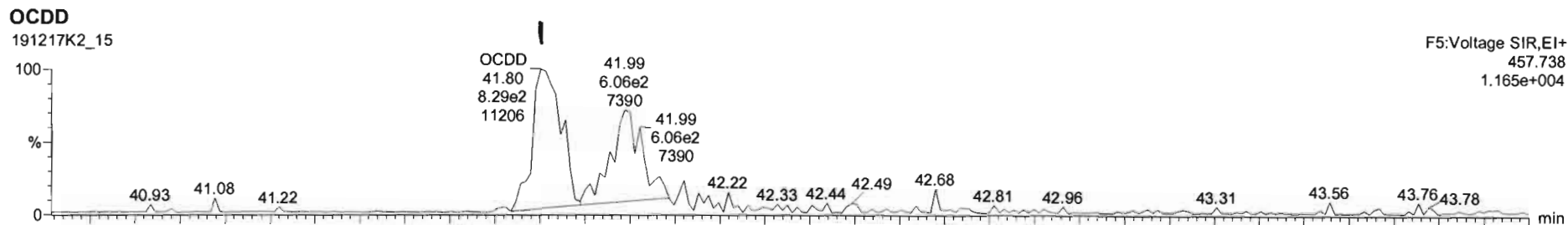


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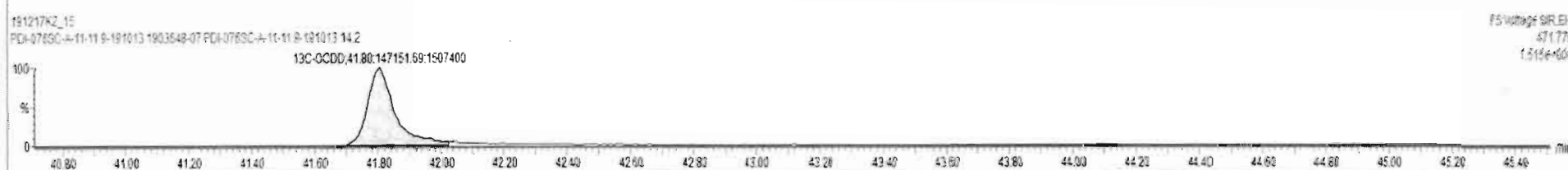
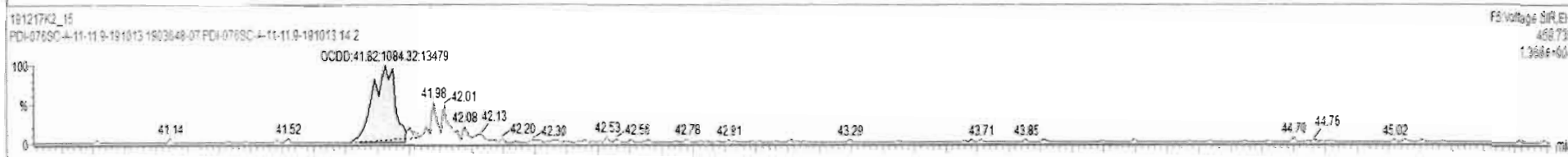
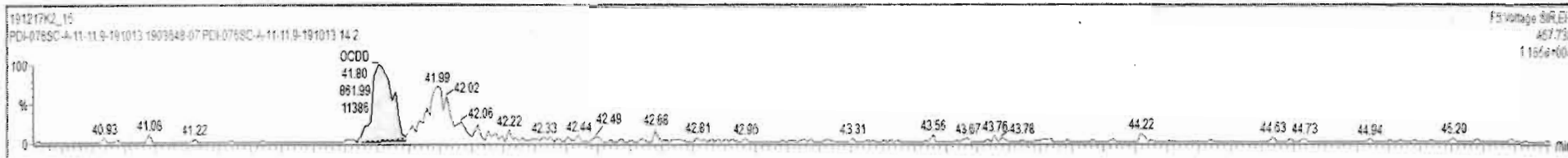
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013



#	Name	Resp	RA	n/y	RRF	w/w%	Pred RT	RT	Pred R	RRT	RRT Fal	Conc	%Rec	DL	EMPC
4	1,2,3,6,7,8-HxCDD				0.9675	10.117	34.75		1.000		YES			0.128	
5	1,2,3,7,8-HxCDD				0.9778	10.117	35.06		1.001		YES			0.157	
6	1,2,3,4,6,7,8-HpCDD				1.0375	10.117	38.55		1.000		YES			0.268	
7	OCDD	1.95e2	0.80	NO	0.9718	10.117	41.80	41.80	1.000	1.000	NO	2.061		0.458	2.061
8	2,3,7,8-TCDF				0.9376	10.117	25.20		1.001		YES			0.0606	
9	1,2,3,7,8-PeCDF				0.9782	10.117	30.00		1.001		YES			0.0680	
10	2,3,4,7,8-PeCDF				1.0049	10.117	31.02		1.001		YES			0.0544	
11	1,2,3,4,7,8-HxCDF				1.2434	10.117	23.78		1.000		YES			0.0548	
12	1,2,3,6,7,8-HxCDF				1.0950	10.117	33.91		1.000		YES			0.0624	
13	2,3,4,6,7,8-HxCDF				1.1808	10.117	34.51		1.001		YES			0.0545	
14	1,2,3,7,8,9-HxCDF				1.0728	10.117	35.36		1.000		YES			0.0838	
15	1,2,3,4,6,7,8-HpCDF				1.1300	10.117	37.14		1.001		YES			0.0694	
16	1,2,3,4,7,8,9-HpCDF				1.2609	10.117	39.15		1.000		YES			0.0925	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1										

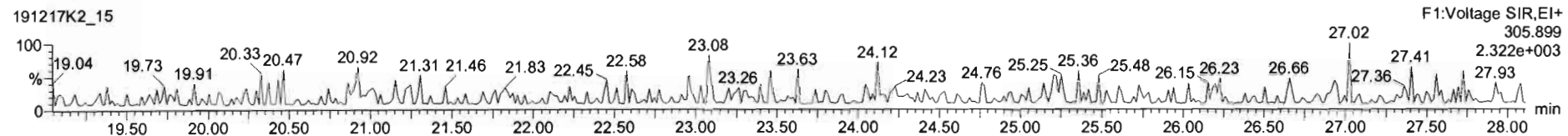
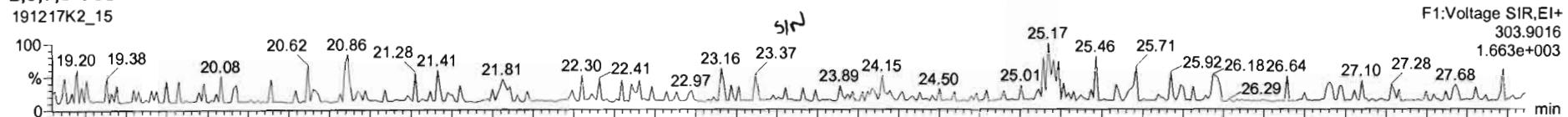


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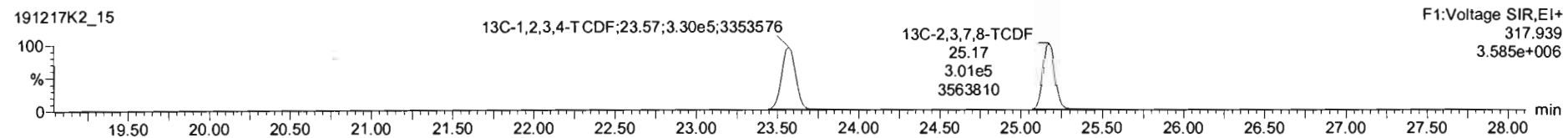
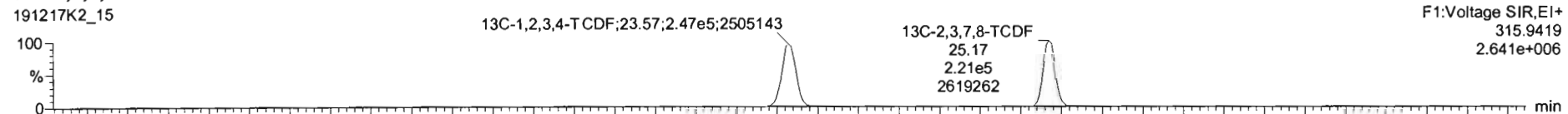
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

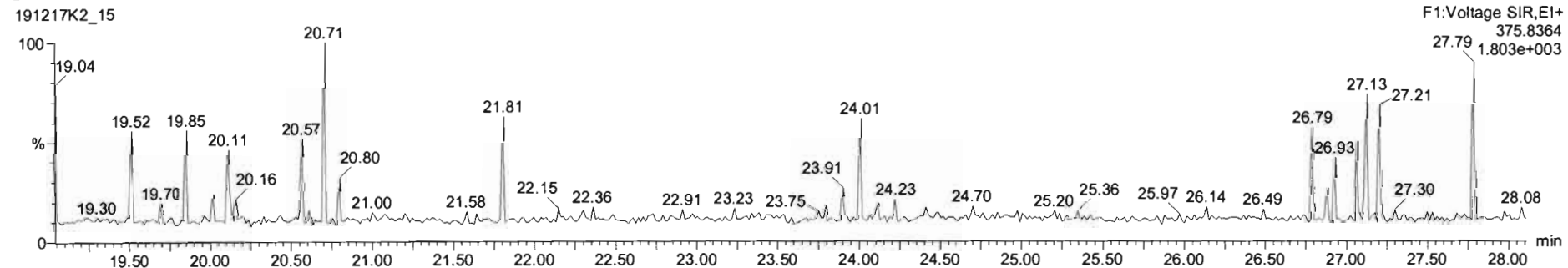
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

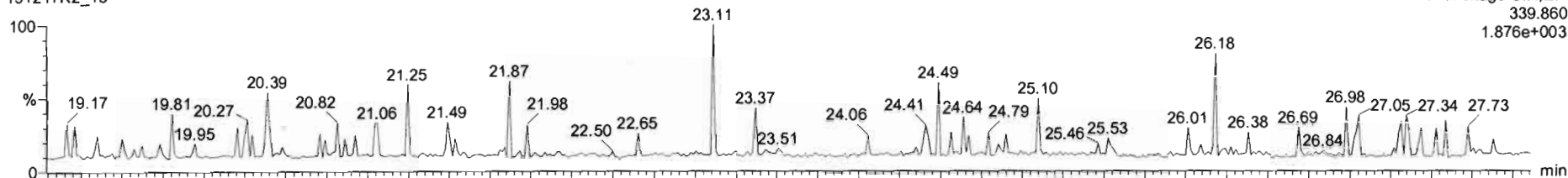
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

1st Func. Penta-Furans

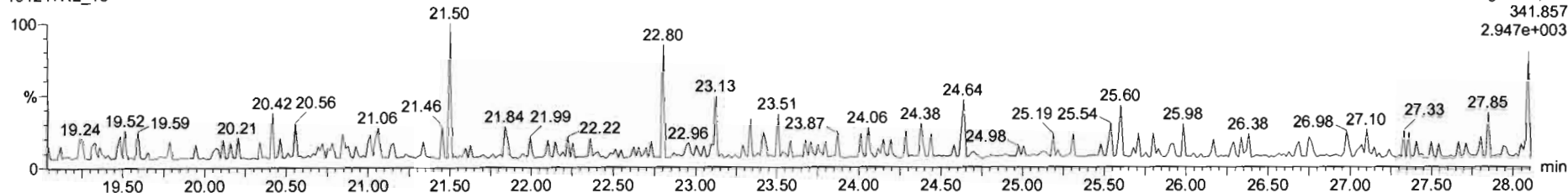
191217K2_15

F1:Voltage SIR,EI+
339.860
1.876e+003



191217K2_15

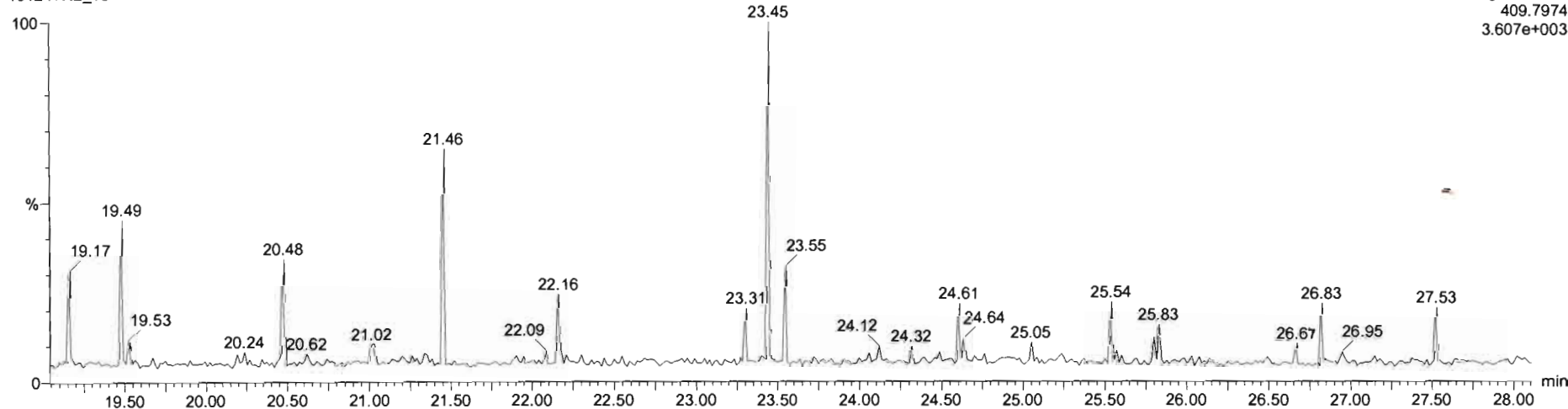
F1:Voltage SIR,EI+
341.857
2.947e+003



DPE6

191217K2_15

F1:Voltage SIR,EI+
409.7974
3.607e+003

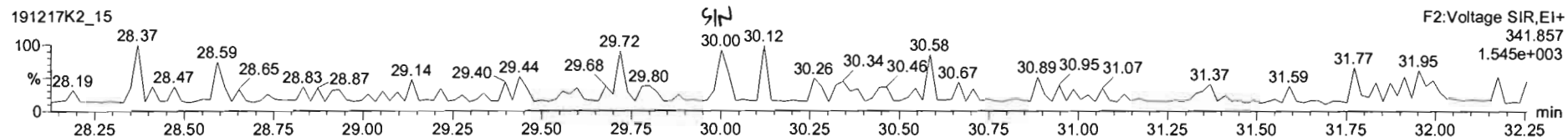
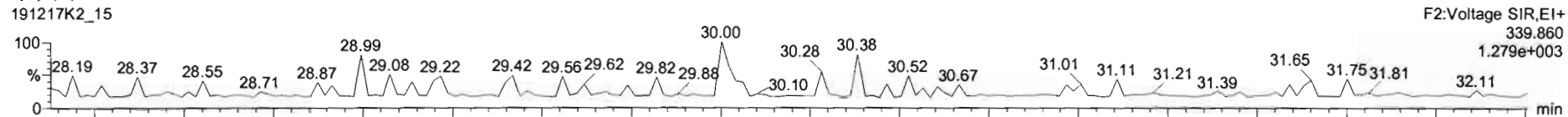


Dataset: Untitled

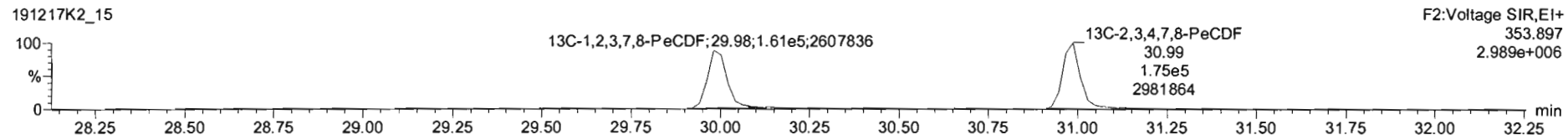
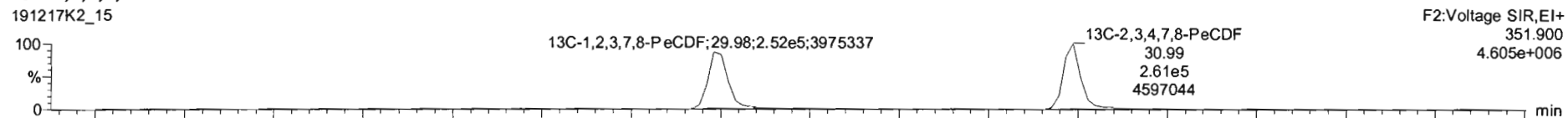
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

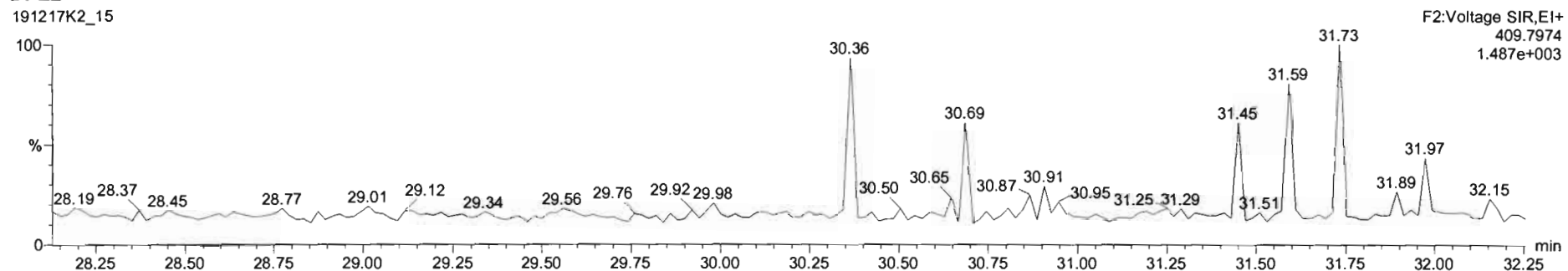
1,2,3,7,8-PeCDF



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



DPE2

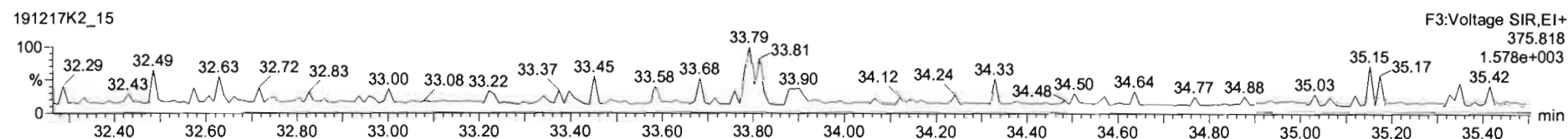
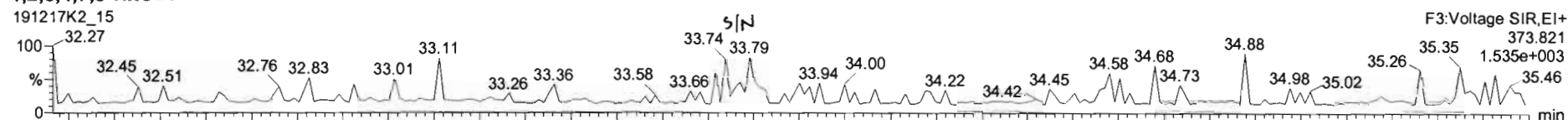


Dataset: Untitled

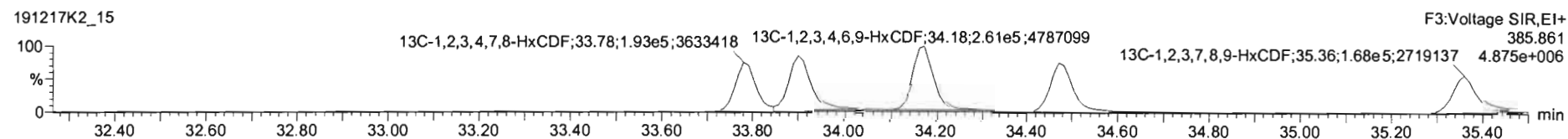
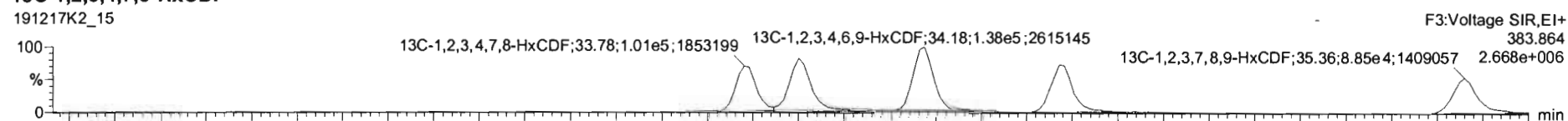
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

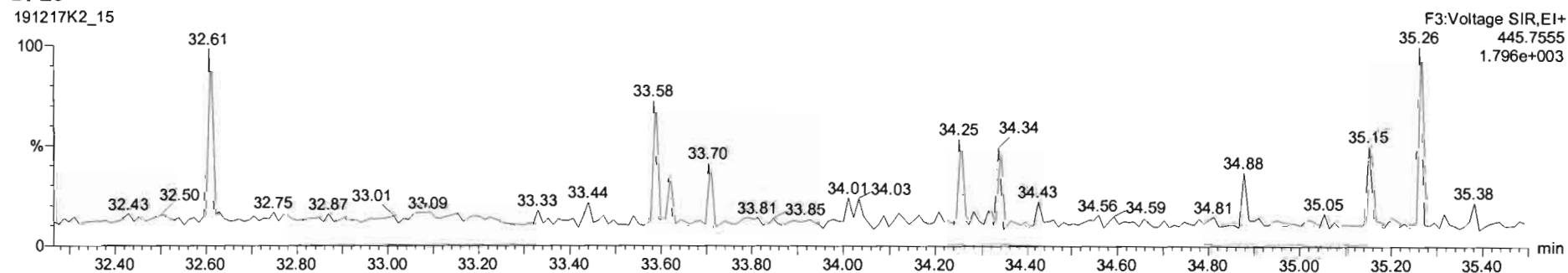
1,2,3,4,7,8-HxCDF



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



DPE3

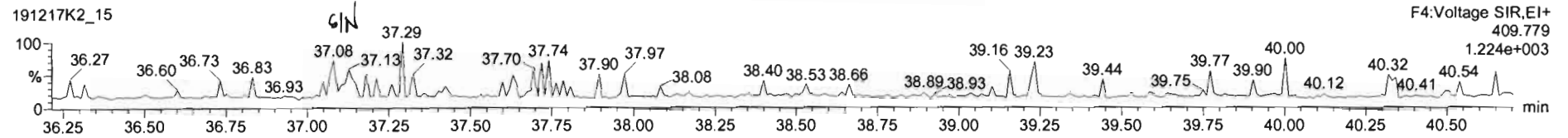
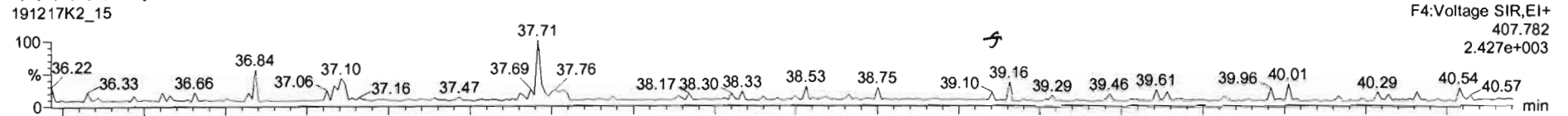


Dataset: Untitled

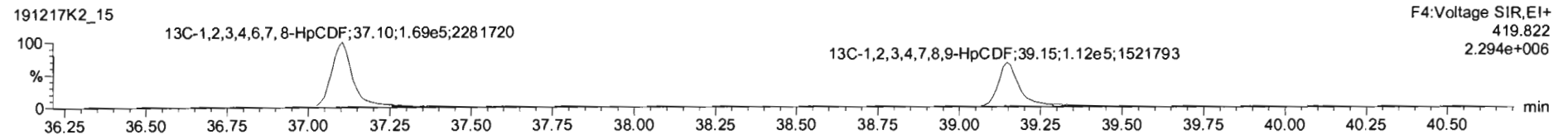
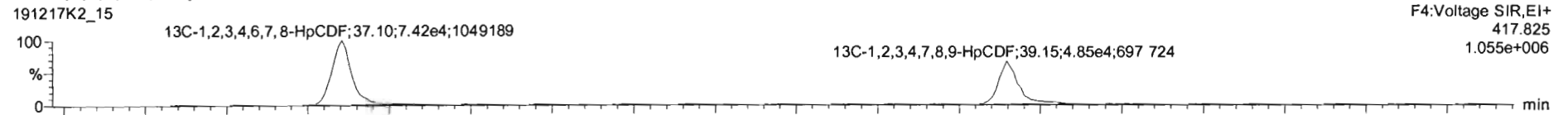
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

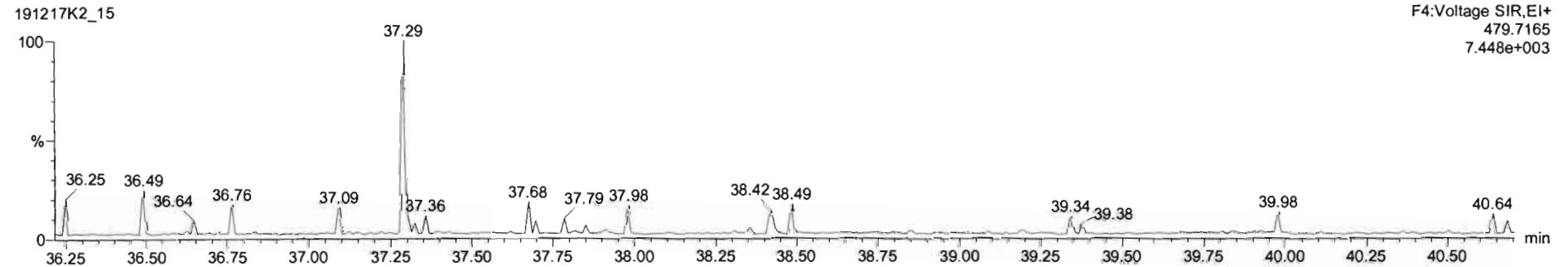
1,2,3,4,6,7,8-HpCDF



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



DPE4

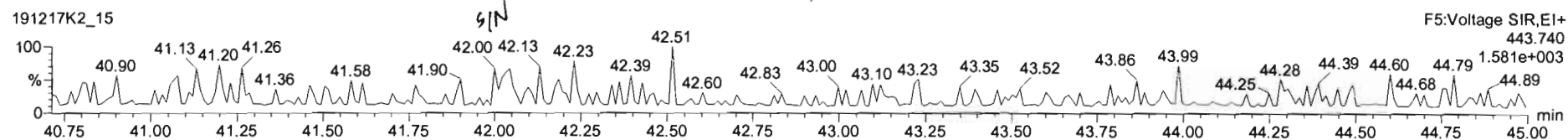
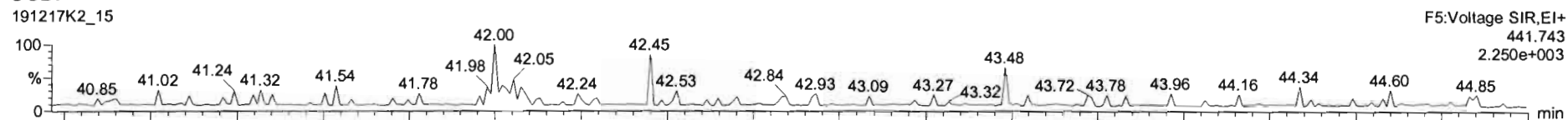


Dataset: Untitled

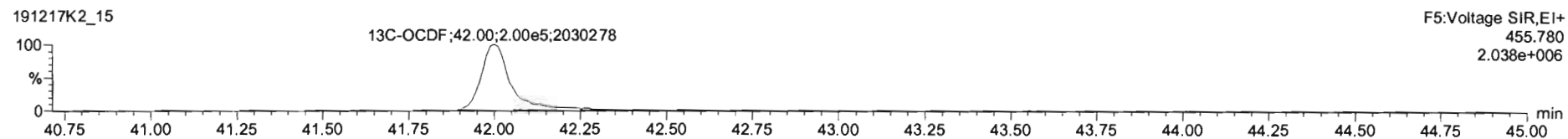
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013

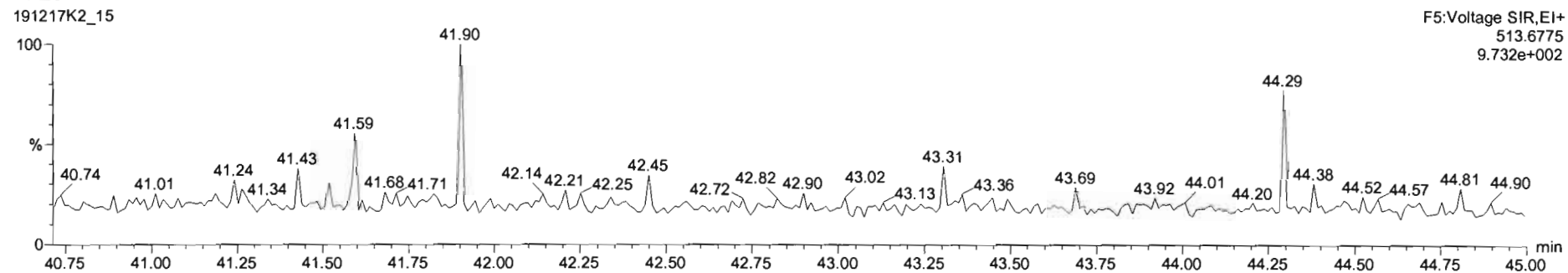
OCDF



13C-OCDF



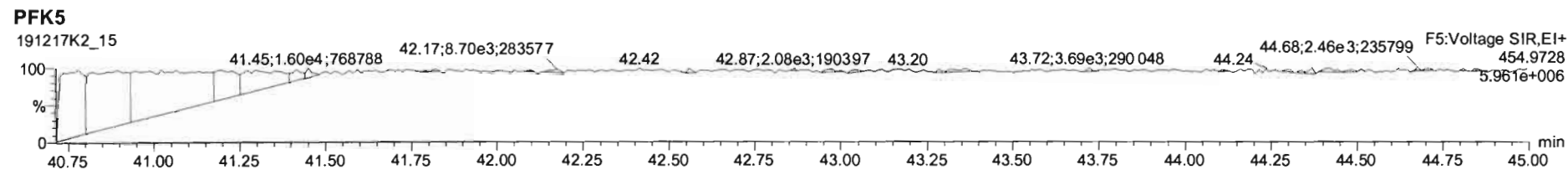
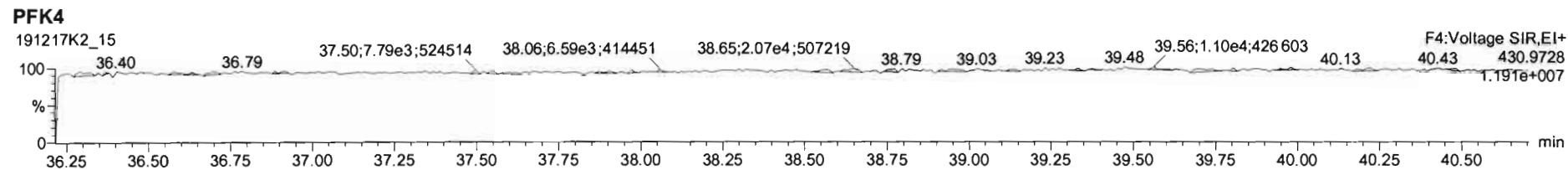
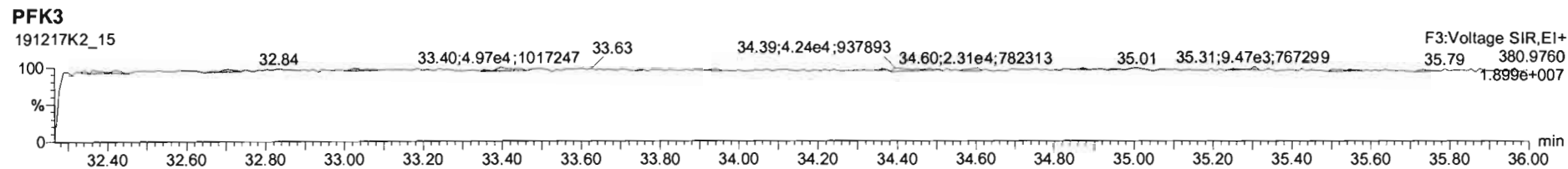
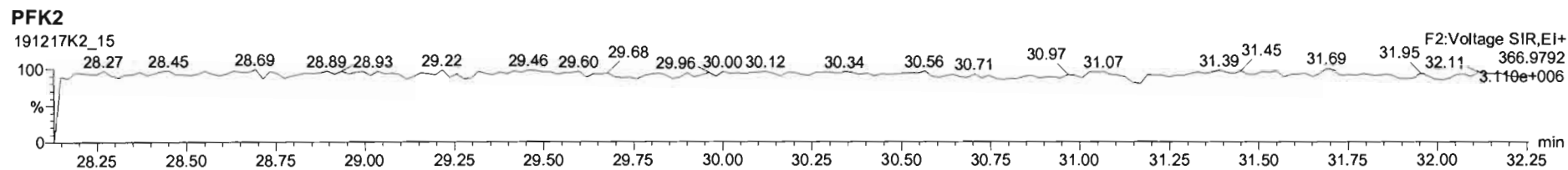
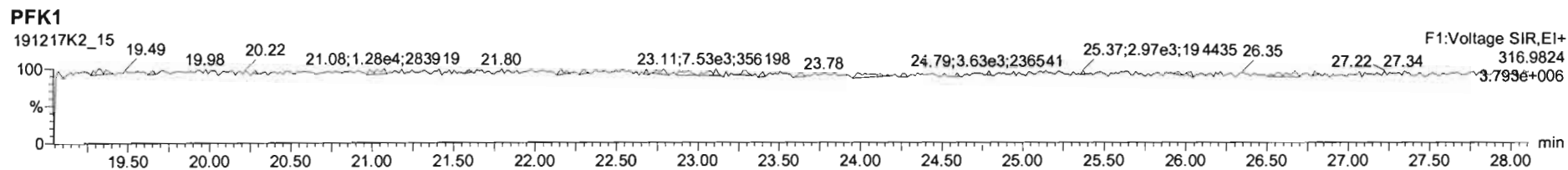
DPES



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_15, Date: 18-Dec-2019, Time: 01:09:29, ID: 1903648-07 PDI-076SC-A-11-11.9-191013 14.2, Description: PDI-076SC-A-11-11.9-191013



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST191217K21

Reviewed By: GPB 12/19/19

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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>NA HC</u>	<u>n</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Bottle position verified?	<u>HC</u>	<u>HC</u>

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:

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-1.qld

Last Altered: Wednesday, December 18, 2019 18:10:47 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:11:15 Pacific Standard Time

HC 12-18-19

GRB 12/19/19

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:36

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	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	4.66e4	5.07e5	0.74	NO	0.925	26.18	26.17	NO	1.001	1.001	9.9476	99.5	NO
2	2 1,2,3,7,8-PeCDD	1.58e5	3.40e5	0.60	NO	0.905	31.31	31.31	NO	1.001	1.001	51.251	103	NO
3	3 1,2,3,4,7,8-HxCDD	1.53e5	2.71e5	1.28	NO	1.07	34.65	34.66	NO	1.000	1.001	52.807	106	NO
4	4 1,2,3,6,7,8-HxCDD	1.66e5	3.23e5	1.27	NO	0.967	34.75	34.76	NO	1.000	1.000	52.912	106	NO
5	5 1,2,3,7,8,9-HxCDD	1.49e5	3.03e5	1.34	NO	0.978	35.04	35.03	NO	1.001	1.001	50.317	101	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.18e5	2.38e5	1.09	NO	1.04	38.53	38.53	NO	1.000	1.000	47.683	95.4	NO
7	7 OCDD	1.97e5	3.77e5	0.90	NO	0.972	41.78	41.79	NO	1.000	1.000	107.58	108	NO
8	8 2,3,7,8-TCDF	6.98e4	7.21e5	0.78	NO	0.938	25.18	25.19	NO	1.001	1.001	10.332	103	NO
9	9 1,2,3,7,8-PeCDF	2.74e5	5.15e5	1.61	NO	0.976	30.00	30.00	NO	1.001	1.001	54.361	109	NO
10	10 2,3,4,7,8-PeCDF	2.69e5	4.95e5	1.58	NO	1.00	31.00	30.99	NO	1.001	1.001	53.946	108	NO
11	11 1,2,3,4,7,8-HxCDF	2.48e5	3.81e5	1.28	NO	1.24	33.78	33.79	NO	1.000	1.000	52.299	105	NO
12	12 1,2,3,6,7,8-HxCDF	2.64e5	4.50e5	1.29	NO	1.10	33.90	33.91	NO	1.000	1.001	53.450	107	NO
13	13 2,3,4,6,7,8-HxCDF	2.64e5	4.20e5	1.29	NO	1.18	34.51	34.48	NO	1.001	1.000	53.263	107	NO
14	14 1,2,3,7,8,9-HxCDF	2.02e5	3.54e5	1.26	NO	1.07	35.35	35.37	NO	1.000	1.001	53.047	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.07e5	3.45e5	1.09	NO	1.13	37.13	37.10	NO	1.001	1.000	52.991	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.59e5	2.31e5	1.10	NO	1.26	39.12	39.15	NO	1.000	1.001	54.661	109	NO
17	17 OCDF	2.67e5	5.19e5	0.91	NO	1.10	41.97	41.98	NO	1.000	1.000	93.359	93.4	NO
18	18 13C-2,3,7,8-TCDD	5.07e5	4.69e5	0.77	NO	1.05	26.15	26.15	NO	1.027	1.028	102.98	103	NO
19	19 13C-1,2,3,7,8-PeCDD	3.40e5	4.69e5	0.61	NO	0.743	31.29	31.29	NO	1.230	1.229	97.570	97.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.71e5	4.67e5	1.23	NO	0.646	34.64	34.64	NO	1.014	1.014	89.816	89.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.23e5	4.67e5	1.23	NO	0.777	34.73	34.75	NO	1.017	1.017	89.079	89.1	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.03e5	4.67e5	1.22	NO	0.659	35.01	35.01	NO	1.025	1.025	98.202	98.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.38e5	4.67e5	1.13	NO	0.534	38.51	38.52	NO	1.127	1.128	95.286	95.3	NO
24	24 13C-OCDD	3.77e5	4.67e5	0.89	NO	0.470	41.79	41.78	NO	1.223	1.223	171.54	85.8	NO
25	25 13C-2,3,7,8-TCDF	7.21e5	7.02e5	0.73	NO	0.977	25.16	25.16	NO	0.989	0.989	105.03	105	NO
26	26 13C-1,2,3,7,8-PeCDF	5.15e5	7.02e5	1.48	NO	0.778	29.98	29.98	NO	1.178	1.178	94.370	94.4	NO
27	27 13C-2,3,4,7,8-PeCDF	4.95e5	7.02e5	1.52	NO	0.750	30.97	30.97	NO	1.217	1.217	94.069	94.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.81e5	4.67e5	0.54	NO	0.845	33.77	33.78	NO	0.989	0.989	96.398	96.4	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.50e5	4.67e5	0.54	NO	1.03	33.89	33.89	NO	0.992	0.992	93.832	93.8	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.20e5	4.67e5	0.52	NO	0.893	34.46	34.47	NO	1.009	1.009	100.62	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.54e5	4.67e5	0.55	NO	0.734	35.37	35.35	NO	1.035	1.035	103.17	103	NO

Dataset: U:\VG11.PRO\Results\191217K2\191217K2-1.qld

Last Altered: Wednesday, December 18, 2019 18:10:47 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:11:15 Pacific Standard Time

Name: 191217K2_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	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	3.45e5	4.67e5	0.44	NO	0.754	37.08	37.09	NO	1.085	1.086	97.965	98.0	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.31e5	4.67e5	0.47	NO	0.539	39.11	39.12	NO	1.145	1.145	91.735	91.7	NO
34	34 13C-OCDF	5.19e5	4.67e5	0.87	NO	0.593	41.97	41.97	NO	1.229	1.228	187.30	93.7	NO
35	35 37Cl-2,3,7,8-TCDD	5.03e4	4.69e5			1.07	26.17	26.17	NO	1.028	1.028	10.016	100	NO
36	36 13C-1,2,3,4-TCDD	4.69e5	4.69e5	0.80	NO	1.00	25.45	25.45	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	7.02e5	7.02e5	0.75	NO	1.00	23.55	23.55	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.67e5	4.67e5	0.53	NO	1.00	34.16	34.16	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time
Printed: Wednesday, December 18, 2019 18:00:16 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\1613_rrt-12-17-19.mdb 17 Dec 2019 14:52:57
Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

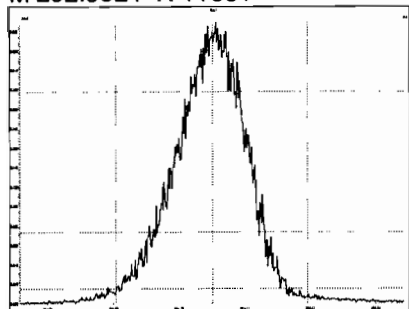
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	191217K2_1	ST191217K2-1 1613 CS3 19C2204	17-Dec-19	13:52:02
2	191217K2_2	B9J0322-BS1 OPR 10	17-Dec-19	14:39:35
3	191217K2_3	SOLVENT BLANK	17-Dec-19	15:27:59
4	191217K2_4	B9J0322-BLK1 Method Blank 10	17-Dec-19	16:16:19
5	191217K2_5	1903742-05 PDI-1069SC-A-13-14.3-191016 1...	17-Dec-19	17:04:40
6	191217K2_6	1903742-06 PDI-022SC-A-11-12-191016 11.41	17-Dec-19	17:53:02
7	191217K2_7	1903742-07 PDI-022SC-A-12-13.1-191016 13....	17-Dec-19	18:42:37
8	191217K2_8	B9J0322-DUP1 Duplicate 15.31	17-Dec-19	19:30:44
9	191217K2_9	1903648-01 PDI-073SC-A-11-12-191013 15.27	17-Dec-19	20:18:05
10	191217K2_10	1903648-02 PDI-073SC-A-12-12.6-191013 14....	17-Dec-19	21:06:27
11	191217K2_11	1903648-03 PDI-1073SC-A-12-12.6-191013 1...	17-Dec-19	21:54:47
12	191217K2_12	1903648-04 PDI-075SC-A-14-15-191013 15.95	17-Dec-19	22:43:08
13	191217K2_13	1903648-05 PDI-075SC-A-15-16-191013 15.4	17-Dec-19	23:32:25
14	191217K2_14	1903648-06 PDI-076SC-A-10-11-191013 13.56	18-Dec-19	00:19:49
15	191217K2_15	1903648-07 PDI-076SC-A-11-11.9-191013 14.2	18-Dec-19	01:09:29

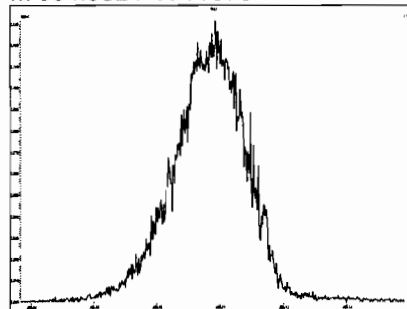
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, December 17, 2019 13:45:39 Pacific Standard Time

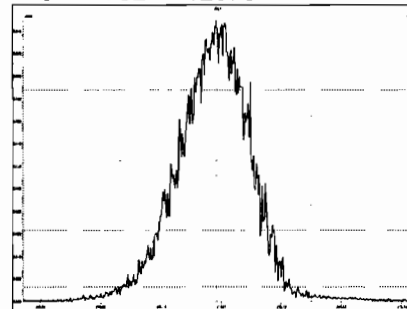
M 292.9824 R 11681



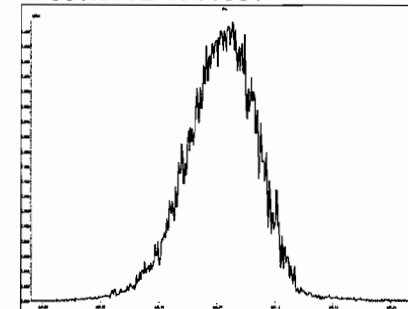
M 304.9824 R 11679



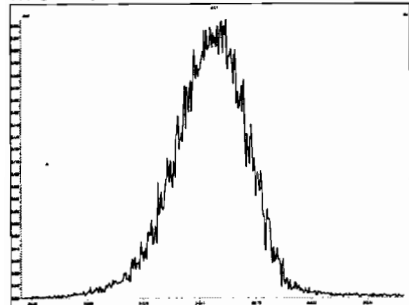
M 318.9792 R 12378



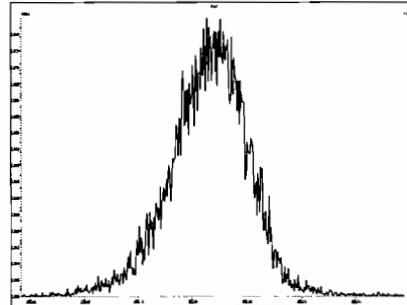
M 330.9792 R 11961



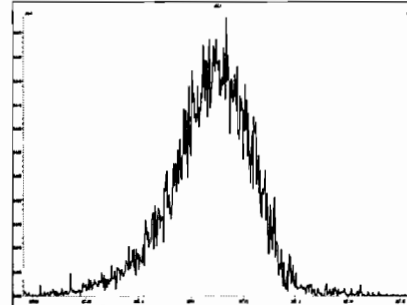
M 342.9792 R 11366



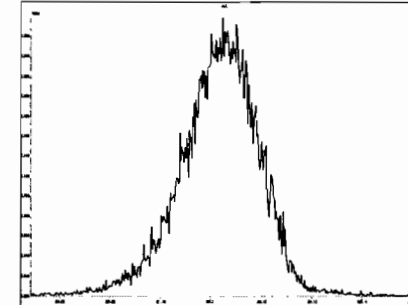
M 354.9792 R 10639



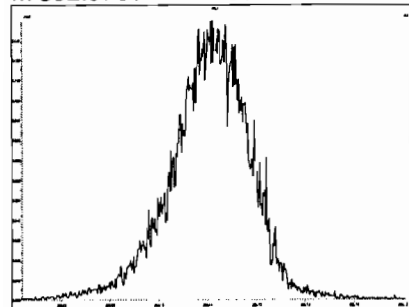
M 366.9792 R 11525



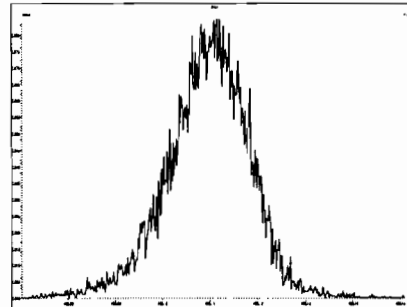
M 380.9760 R 11630



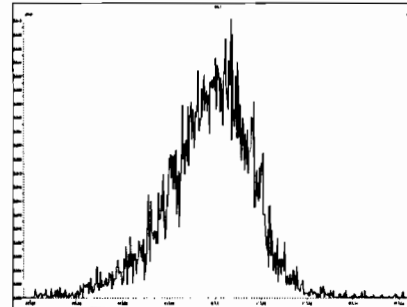
M 392.9760 R 11161



M 404.9760 R 10869



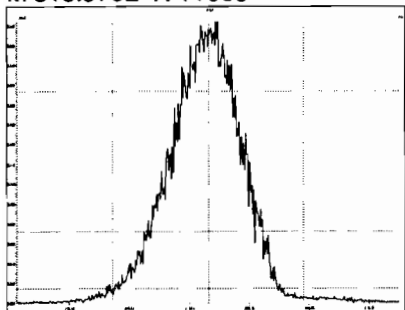
M 416.9760 R 10506



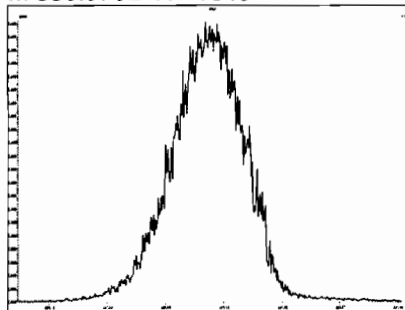
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, December 17, 2019 13:46:41 Pacific Standard Time

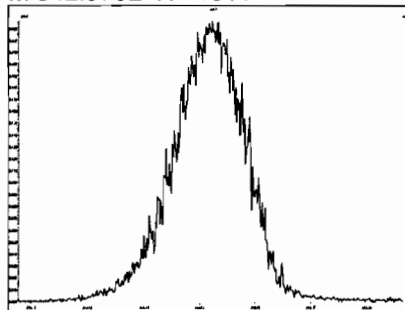
M 318.9792 R 11685



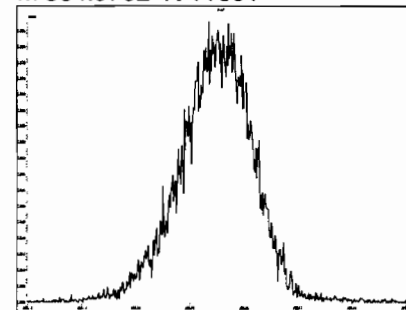
M 330.9792 R 11849



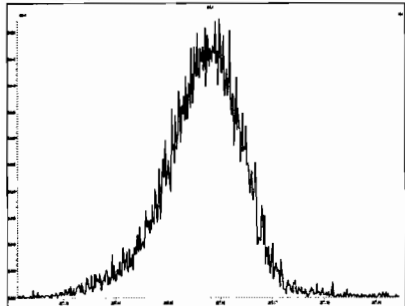
M 342.9792 R 11311



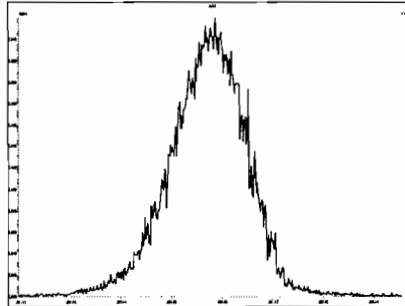
M 354.9792 R 11851



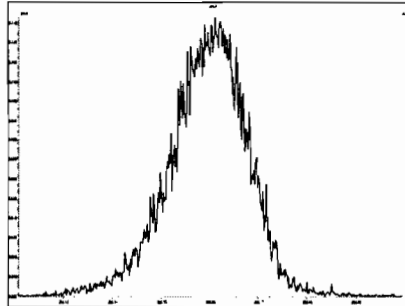
M 366.9792 R 11161



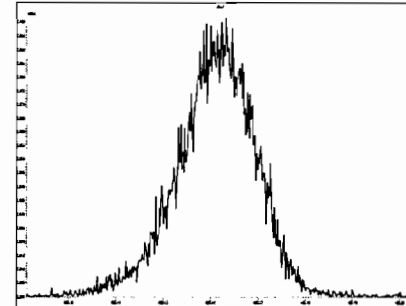
M 380.9760 R 11467



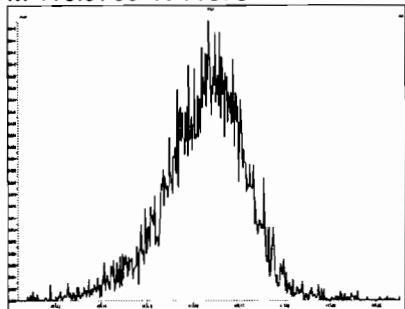
M 392.9760 R 10915



M 404.9760 R 10505



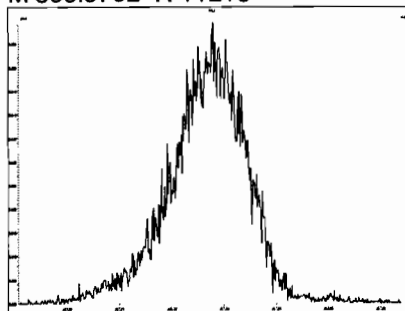
M 416.9760 R 11573



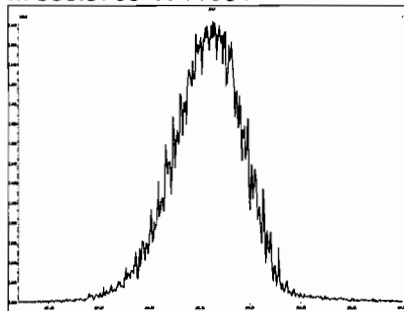
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, December 17, 2019 13:48:04 Pacific Standard Time

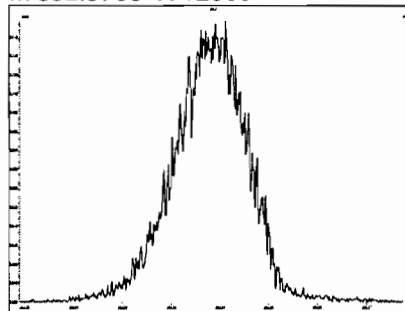
M 366.9792 R 11213



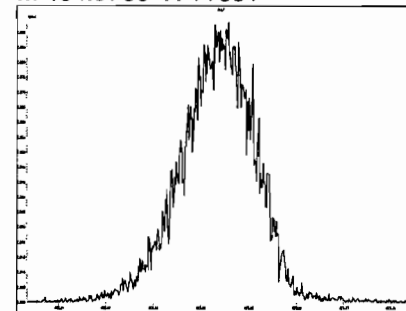
M 380.9760 R 11684



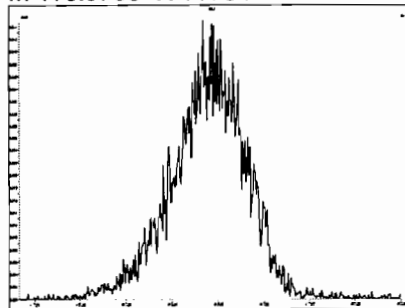
M 392.9760 R 12500



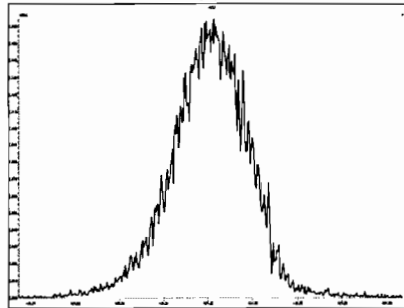
M 404.9760 R 11631



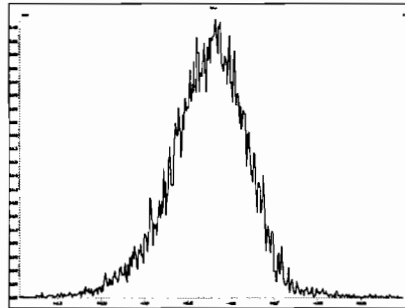
M 416.9760 R 11734



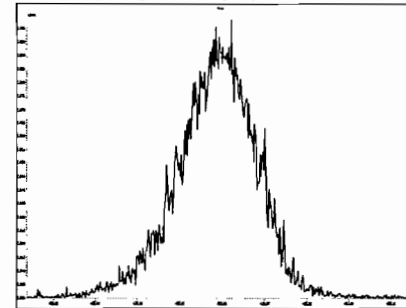
M 430.9728 R 10961



M 442.9728 R 11110



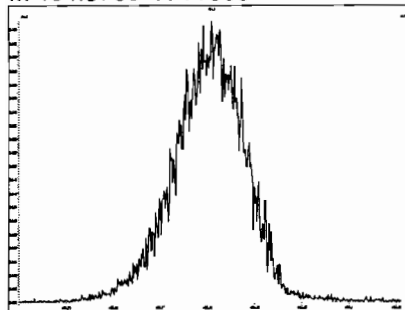
M 454.9728 R 11846



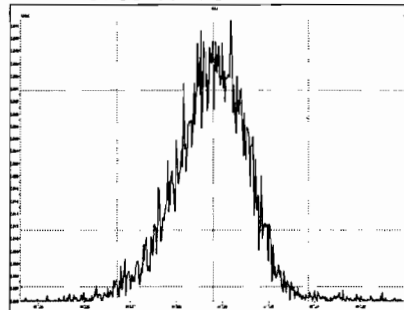
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, December 17, 2019 13:49:48 Pacific Standard Time

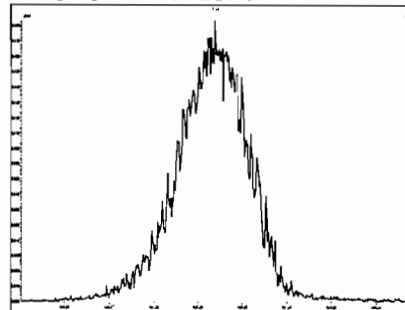
M 404.9760 R 11363



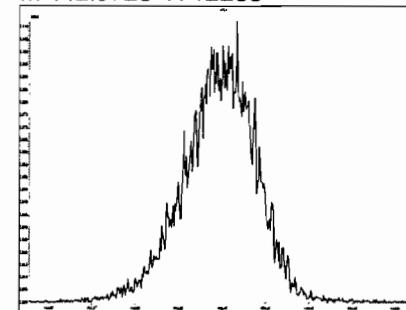
M 416.9760 R 12314



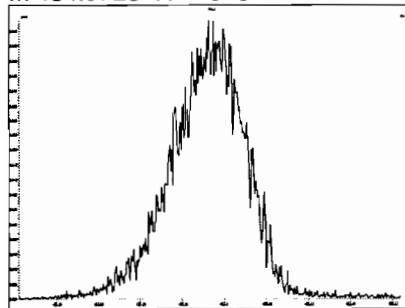
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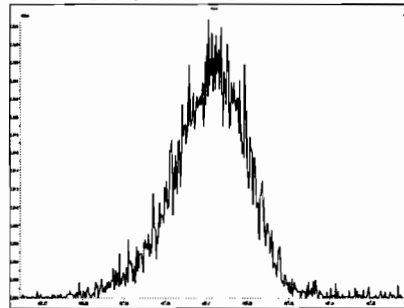
M 442.9728 R 12255



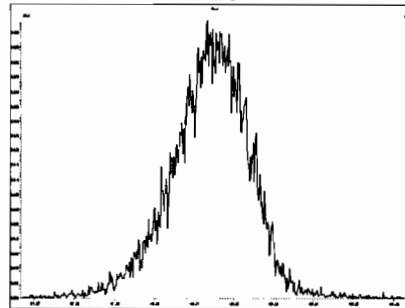
M 454.9728 R 11363



M 466.9728 R 12134

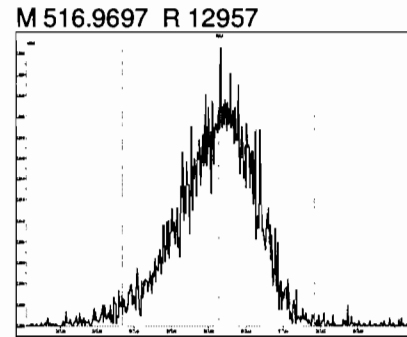
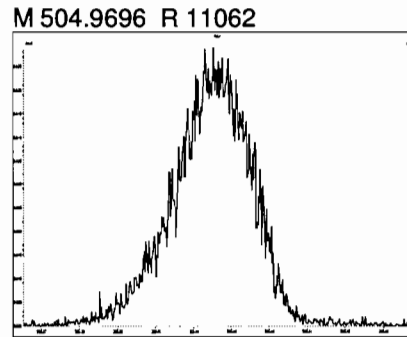
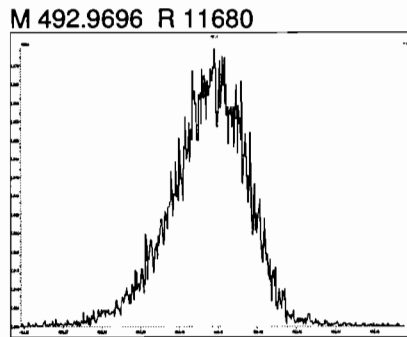
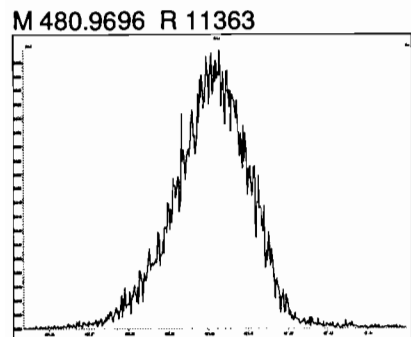
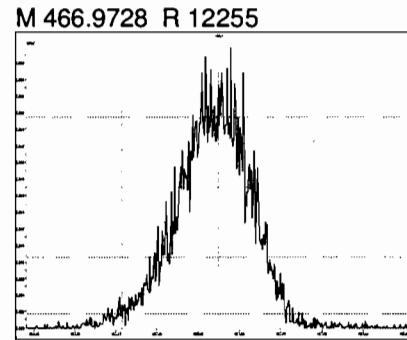
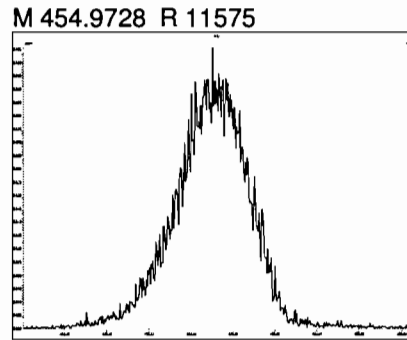
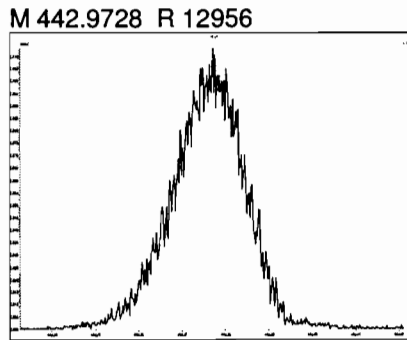
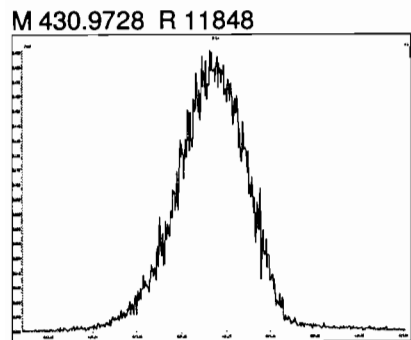


M 480.9696 R 11262



File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, December 17, 2019 13:50:29 Pacific Standard Time



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 17:56:33 Pacific Standard Time
Printed: Wednesday, December 18, 2019 17:56:46 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\CPSM.mdb 18 Dec 2019 17:57:56
Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

Name: 191217K2_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	Name	RT
1	1,3,6,8-TCDD (First)	21.84
2	1,2,8,9-TCDD (Last)	27.19
3	1,2,4,7,9-PeCDD (First)	29.08
4	1,2,3,8,9-PeCDD (Last)	31.69
5	1,2,4,6,7,9-HxCDD (First)	33.19
6	1,2,3,7,8,9-HxCDD (Last)	35.03
7	1,2,3,4,6,7,9-HpCDD (First)	37.50
8	1,2,3,4,6,7,8-HpCDD (Last)	38.53
9	1,3,6,8-TCDF (First)	19.79
10	1,2,8,9-TCDF (Last)	27.33
11	1,3,4,6,8-PeCDF (First)	27.31
12	1,2,3,8,9-PeCDF (Last)	31.93
13	1,2,3,4,6,8-HxCDF (First)	32.64
14	1,2,3,7,8,9-HxCDF (Last)	35.37
15	1,2,3,4,6,7,8-HpCDF (First)	37.11
16	1,2,3,4,7,8,9-HpCDF (Last)	39.15

Dataset: Untitled

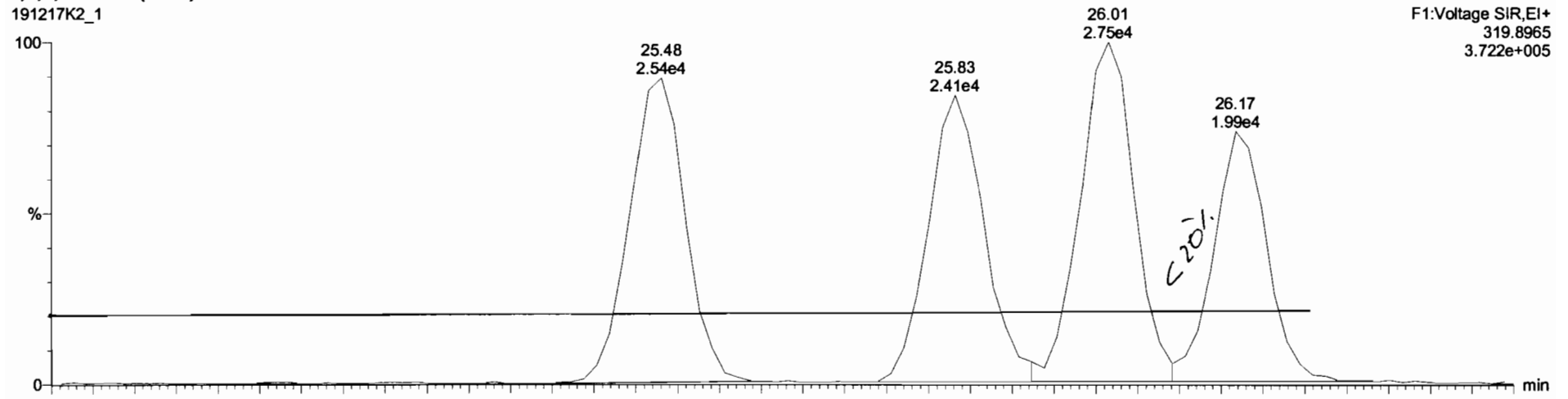
Last Altered: Wednesday, December 18, 2019 17:56:33 Pacific Standard Time
Printed: Wednesday, December 18, 2019 17:56:46 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\CPSM.mdb 18 Dec 2019 17:57:56
Calibration: U:\VG11.PRO\CurveDB\lb5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

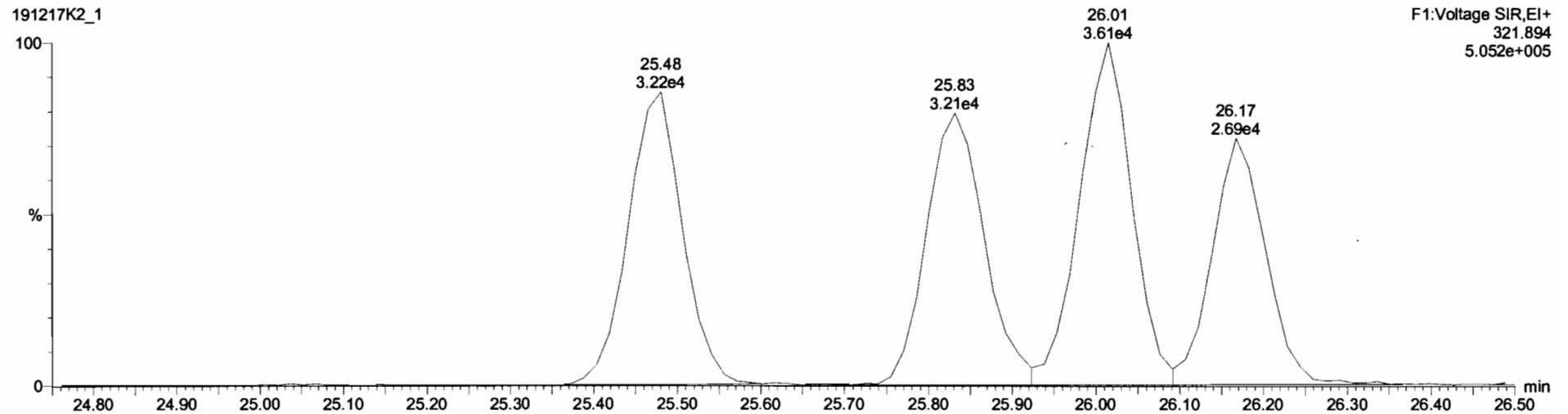
Name: 191217K2_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

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

191217K2_1



191217K2_1



Dataset: Untitled

Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

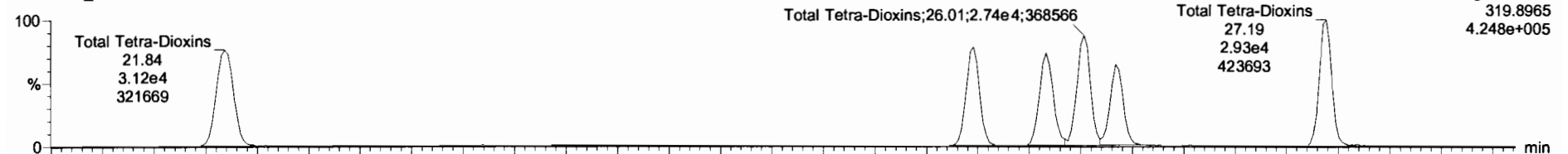
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Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 06:55:45

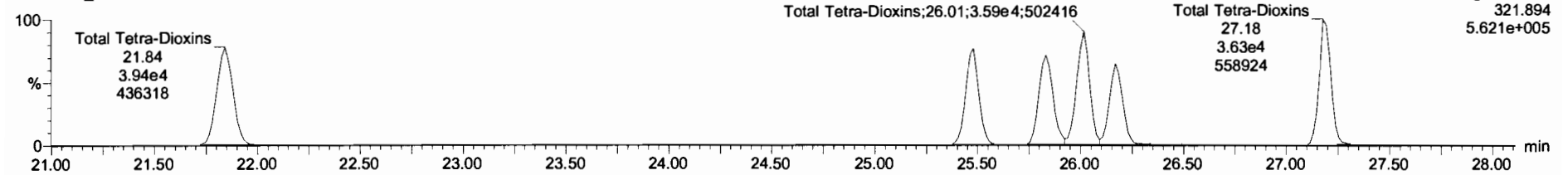
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2,3,7,8-TCDD

191217K2_1

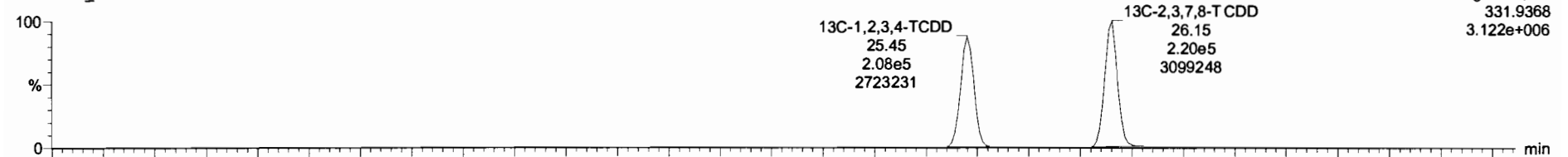


191217K2_1

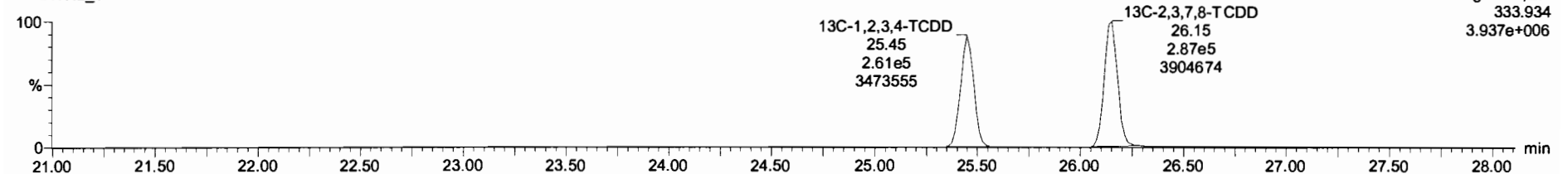


13C-2,3,7,8-TCDD

191217K2_1



191217K2_1



Dataset: Untitled

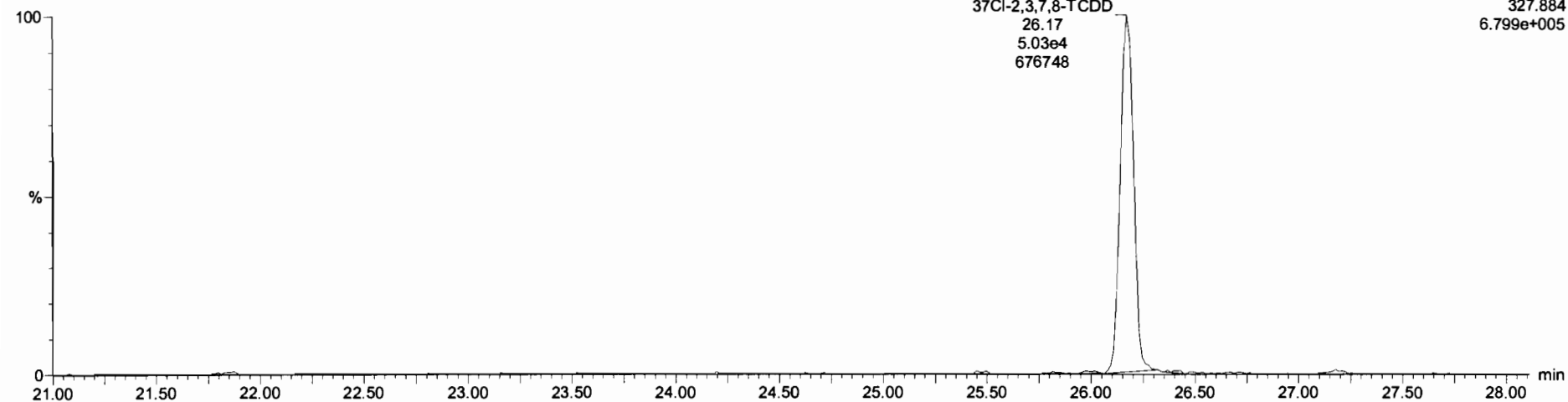
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

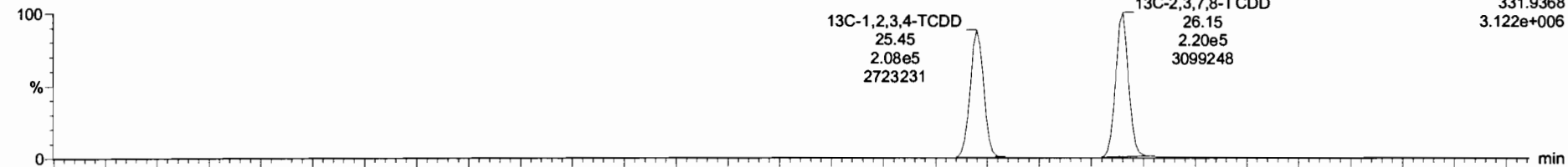
37Cl-2,3,7,8-TCDD

191217K2_1

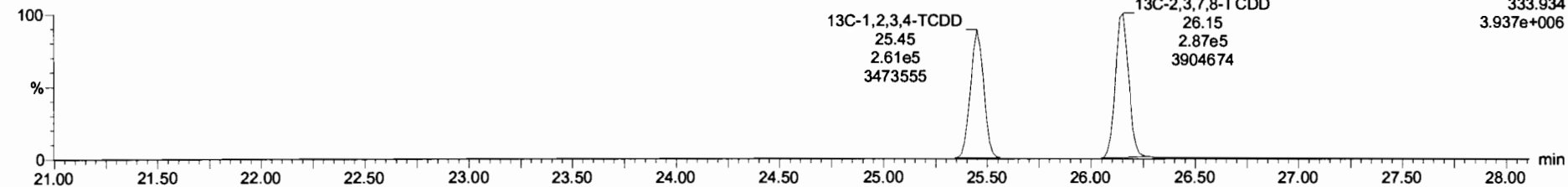


13C-1,2,3,4-TCDD

191217K2_1



191217K2_1



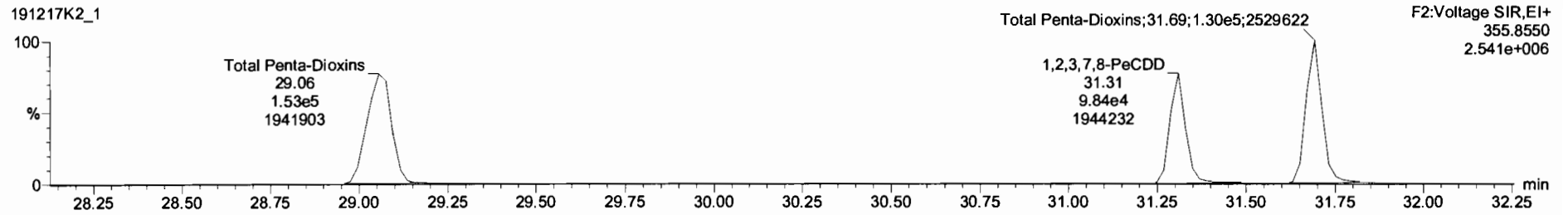
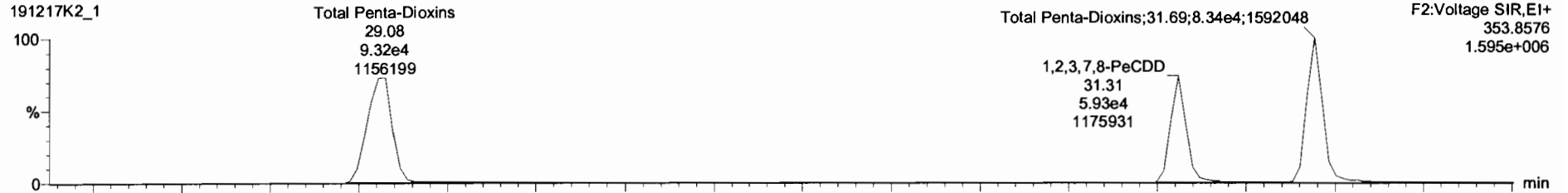
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

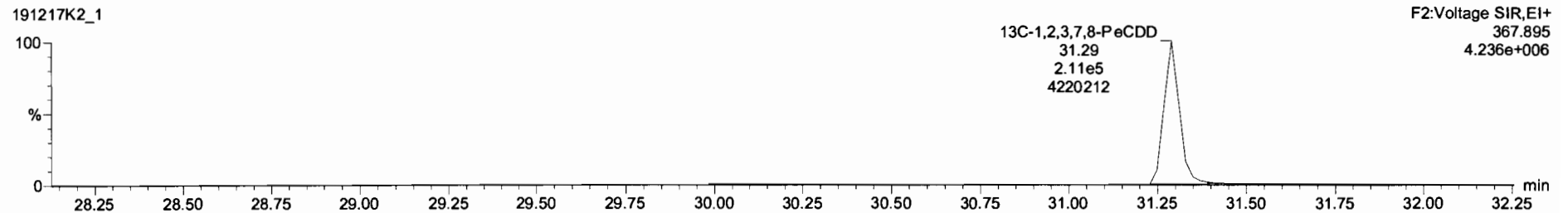
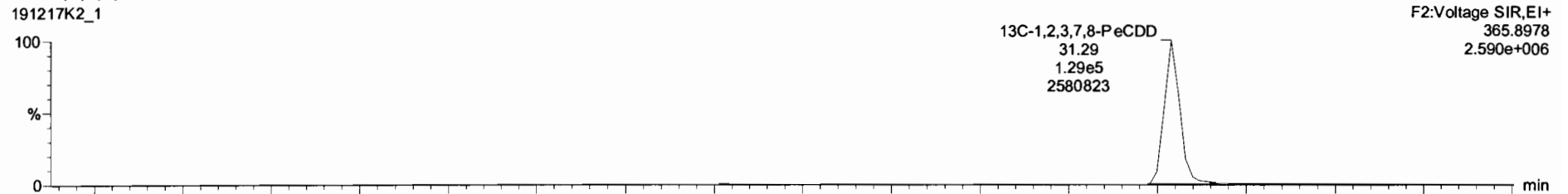
Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

1,2,3,7,8-PeCDD



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



Dataset: Untitled

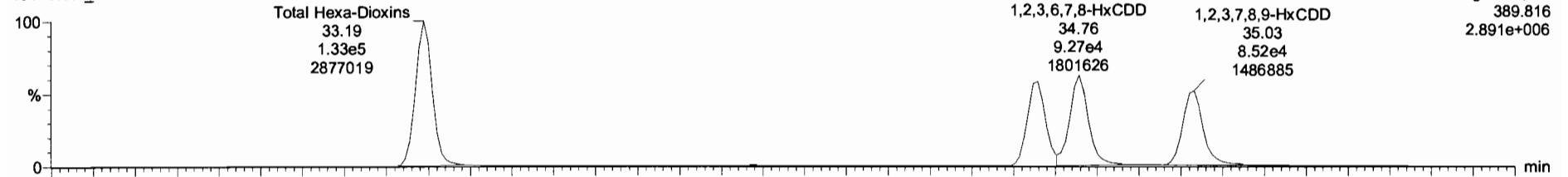
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

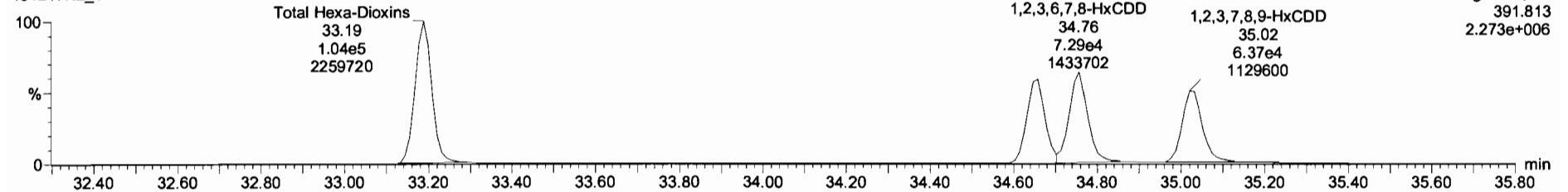
Name: 191217K2_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

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

191217K2_1

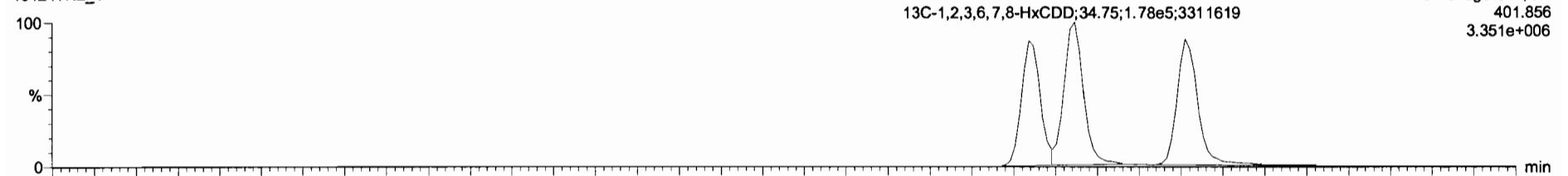


191217K2_1

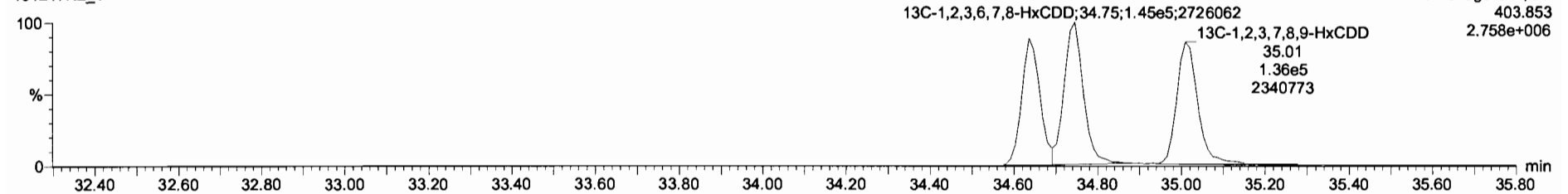


13C-1,2,3,4,7,8-HxCDD

191217K2_1



191217K2_1



Dataset: Untitled

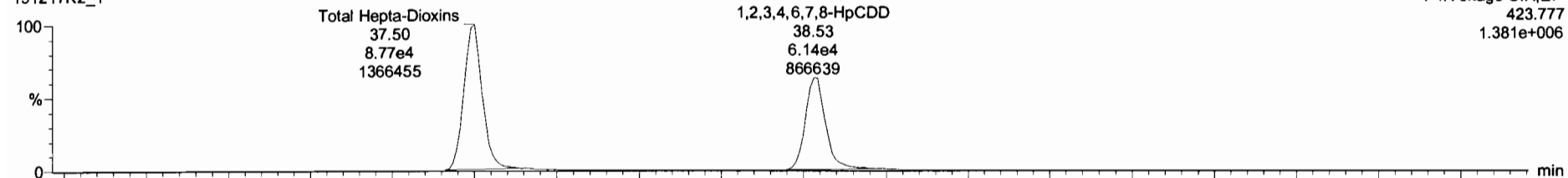
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

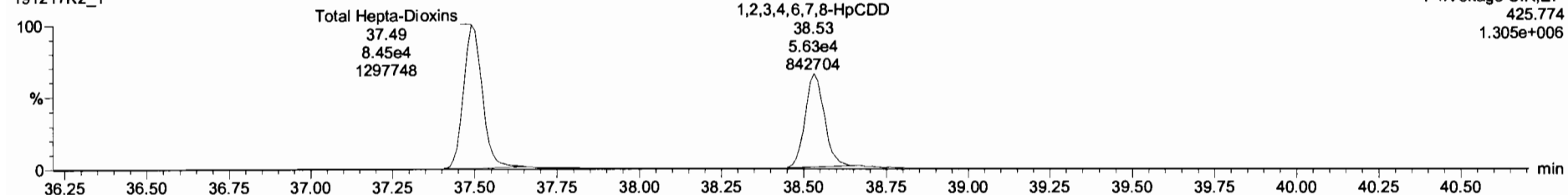
Name: 191217K2_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204

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

191217K2_1

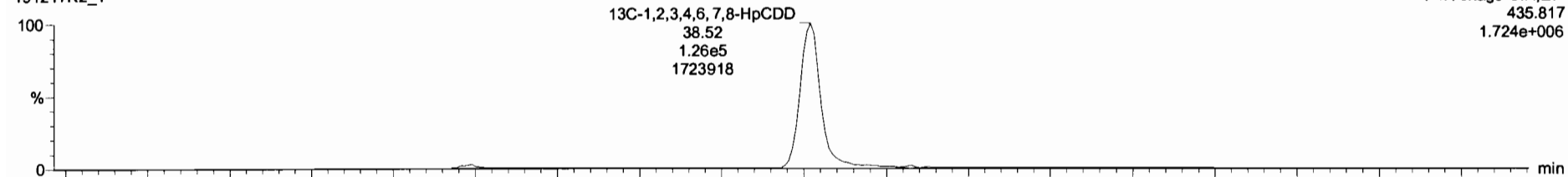


191217K2_1

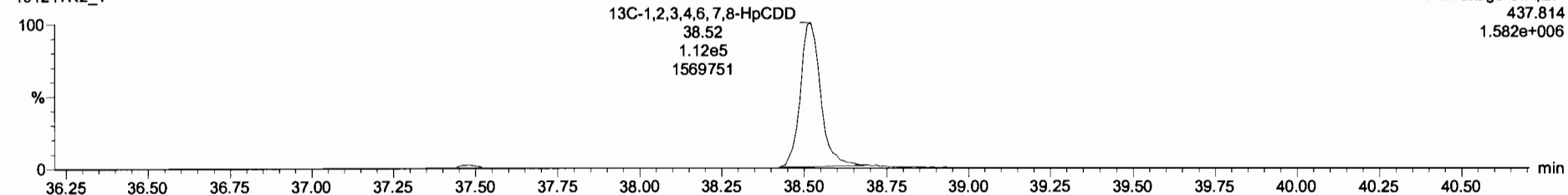


13C-1,2,3,4,6,7,8-HpCDD

191217K2_1



191217K2_1

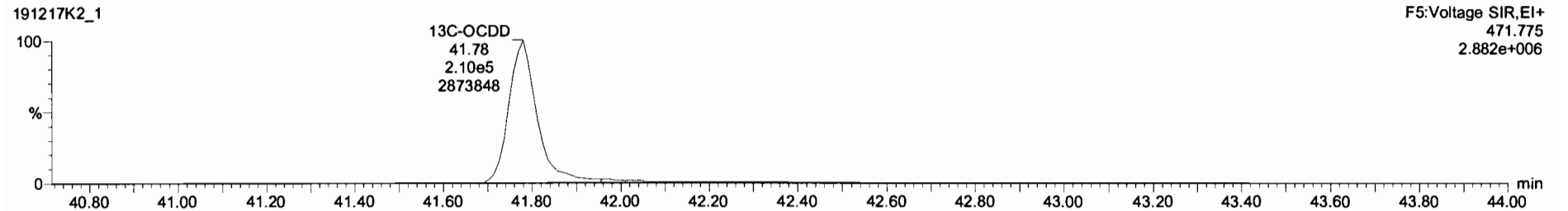
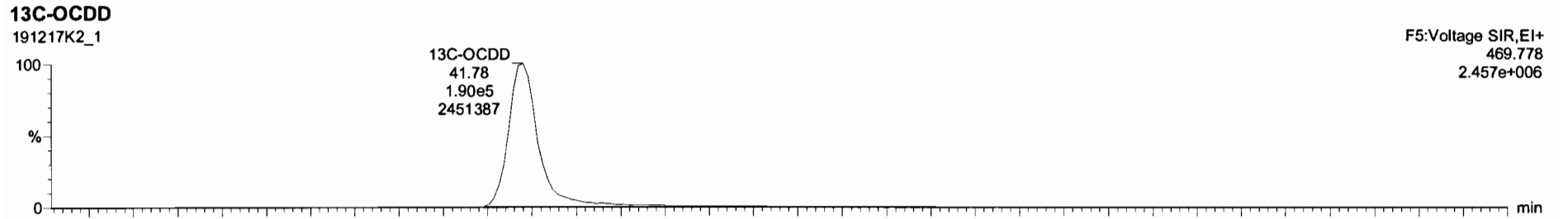
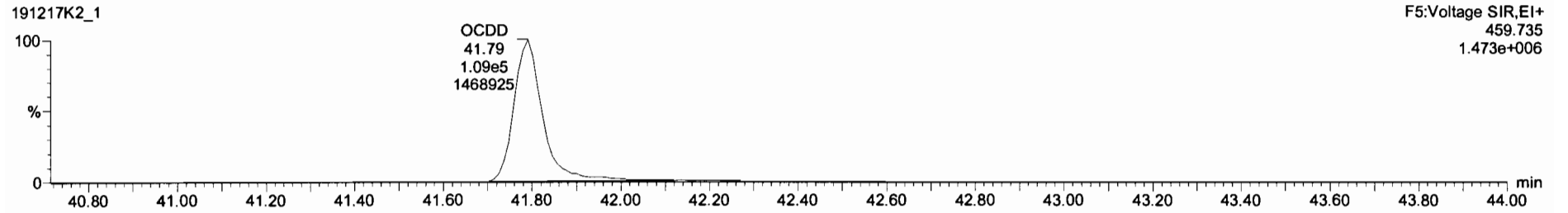
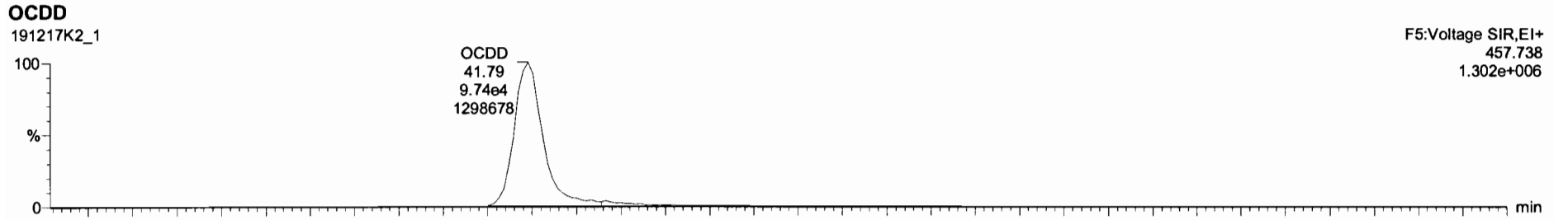


Dataset: Untitled

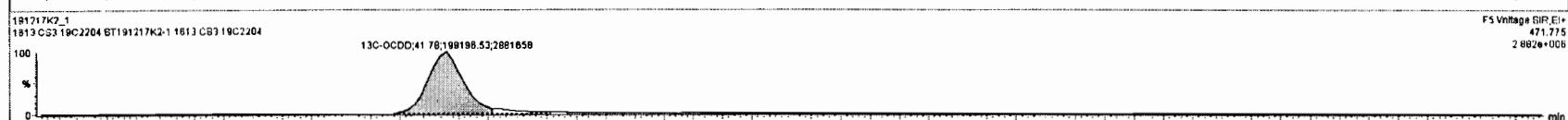
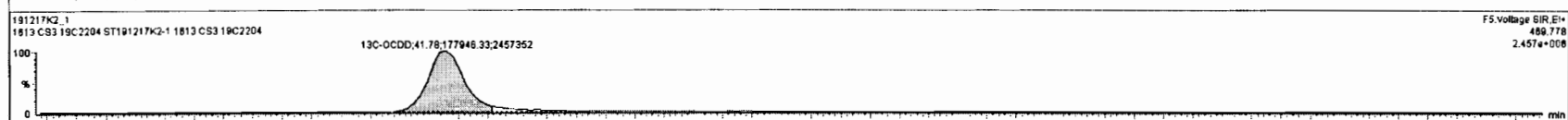
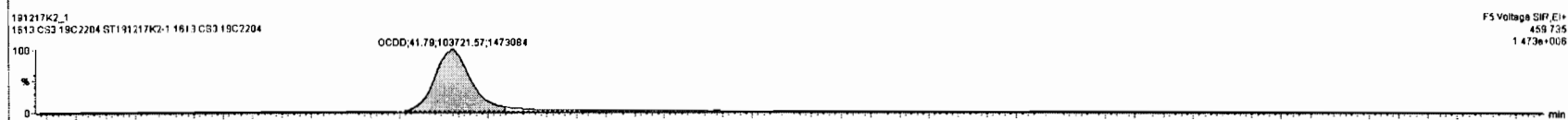
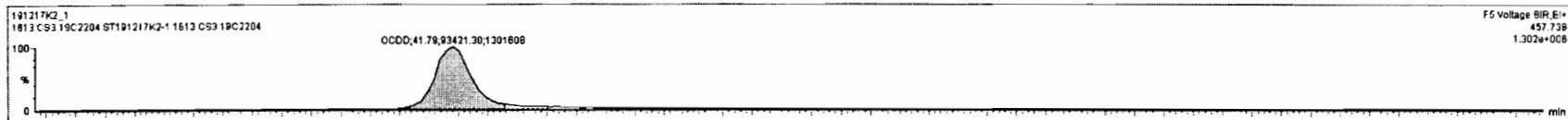
Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

Printed: Wednesday, December 18, 2019 18:00:55 Pacific Standard Time

Name: 191217K2_1, Date: 17-Dec-2019, Time: 13:52:02, ID: ST191217K2-1 1613 CS3 19C2204, Description: 1613 CS3 19C2204



#	Name	Resp	RA	Hy	RF	wt/vol	RT	RRT	Conc	%Rec	DL	RMC
1	2,3,7,8-TCDD	4.66e4	0.74	NO	0.92	1.000	26.17	1.001	9.95	99.5	0.108	9.95
2	1,2,3,7,8-PeCDD	1.58e5	0.80	NO	0.90	1.000	31.31	1.001	51.3	103	0.138	51.3
3	1,2,3,4,7,8-HxCDD	1.53e5	1.28	NO	1.07	1.000	34.86	1.001	52.8	106	0.217	52.8
4	1,2,3,6,7,8-HxCDD	1.66e5	1.27	NO	0.97	1.000	34.78	1.000	52.9	106	0.210	52.9
5	1,2,3,7,8,9-HxCDD	1.49e5	1.34	NO	0.98	1.000	35.03	1.001	50.3	101	0.235	50.3
6	1,2,3,4,6,7,8-HpCDD	1.18e5	1.09	NO	1.04	1.000	38.53	1.000	47.7	95.4	0.318	47.7
7	OCDD	1.97e5	0.98	NO	0.97	1.000	41.79	1.000	106	188	0.287	106
8	2,3,7,8-TCDF	8.99e4	0.78	NO	0.94	1.000	25.19	1.001	10.3	103	0.0938	10.3
9	1,2,3,7,8-PeCDF	2.74e5	1.51	NO	0.98	1.000	30.00	1.001	54.4	108	0.138	54.4
10	1,2,3,4,7,8-HxCDF	2.89e5	1.58	NO	1.00	1.000	30.99	1.001	53.9	108	0.131	53.9
11	1,2,3,6,7,8-HxCDF	2.48e5	1.28	NO	1.24	1.000	33.79	1.000	52.3	105	0.238	52.3
12	1,2,3,8,9-HxCDF	2.84e5	1.29	NO	1.10	1.000	33.91	1.001	53.4	107	0.238	53.4
13	2,3,4,6,7,8-HpCDF	2.84e5	1.29	NO	1.18	1.000	34.48	1.000	53.3	107	0.235	53.3
14	1,2,3,7,8,9-HxCDF	2.02e5	1.28	NO	1.07	1.000	35.37	1.001	53.0	106	0.357	53.0
15	1,2,3,4,6,7,8-HpCDF	2.07e5	1.09	NO	1.13	1.000	37.10	1.000	53.0	106	0.198	53.0
16	1,2,3,4,7,8,9-HpCDF	1.59e5	1.10	NO	1.26	1.000	38.15	1.001	54.7	108	0.282	54.7
17	OCDF	2.75e5	0.93	NO	1.10	1.000	41.98	1.000	91.7	91.7	0.220	91.7



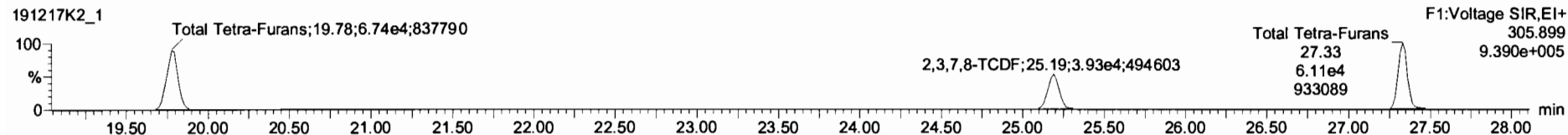
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Last Altered: Wednesday, December 18, 2019 18:00:06 Pacific Standard Time

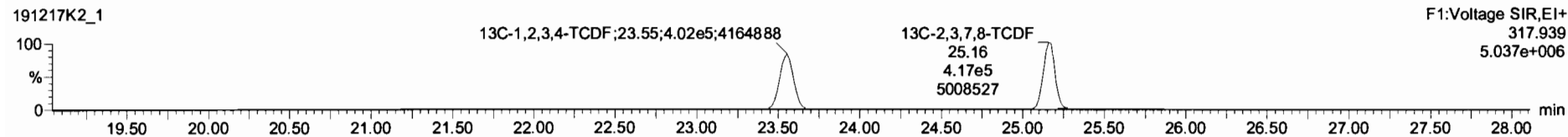
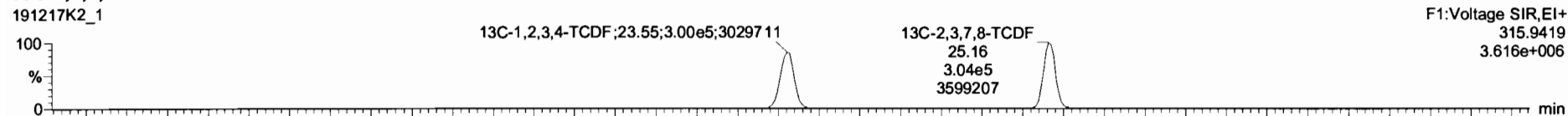
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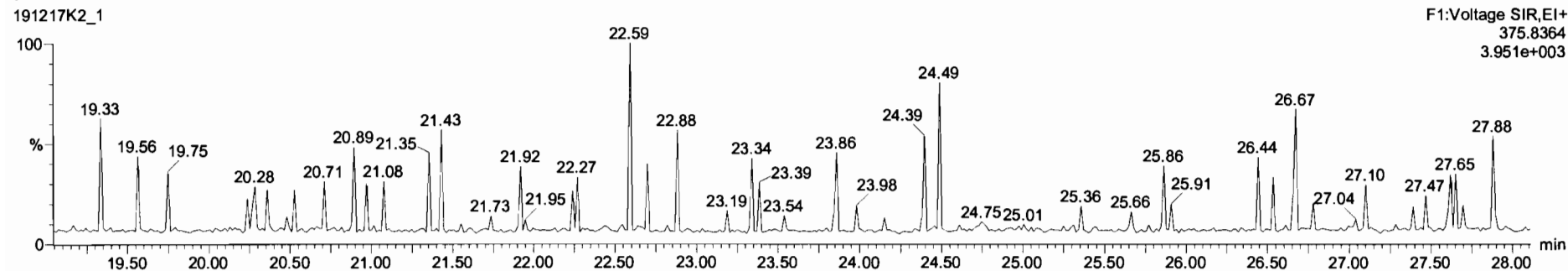
2,3,7,8-TCDF



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



DPE1



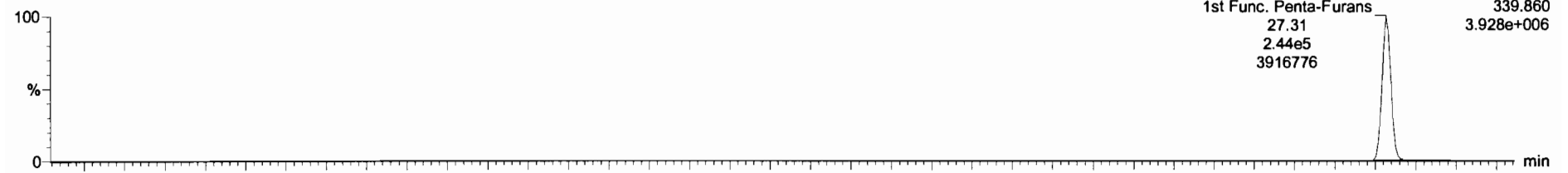
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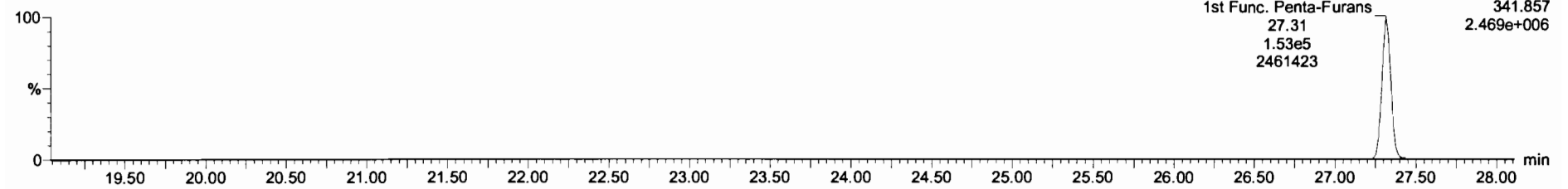
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191217K2_1

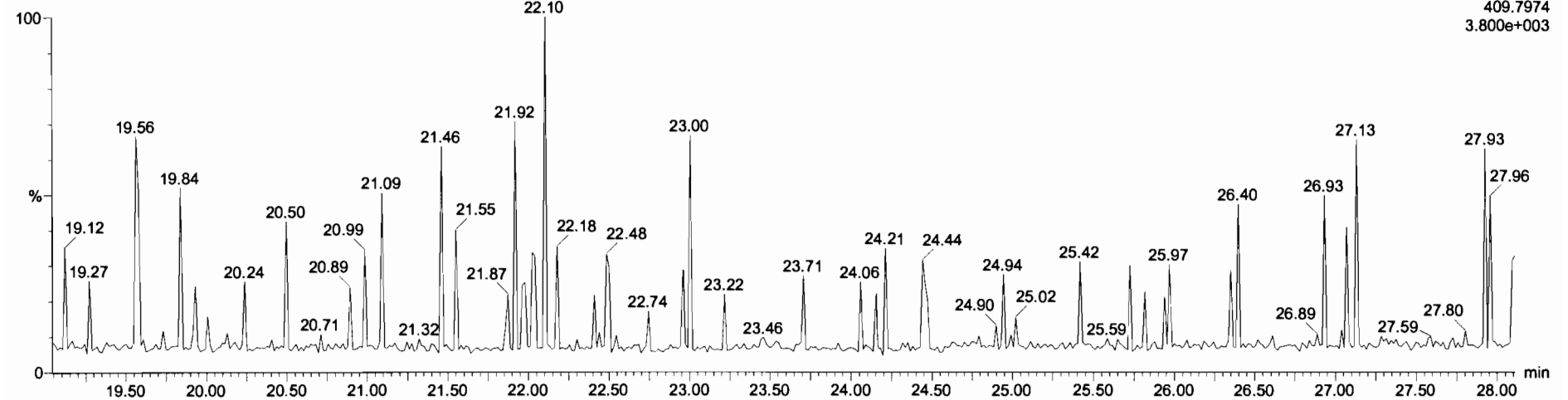


191217K2_1



DPE6

191217K2_1



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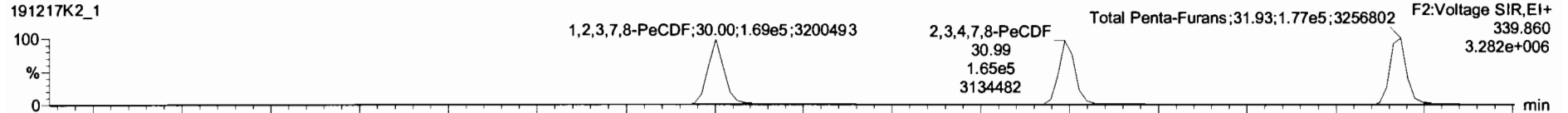
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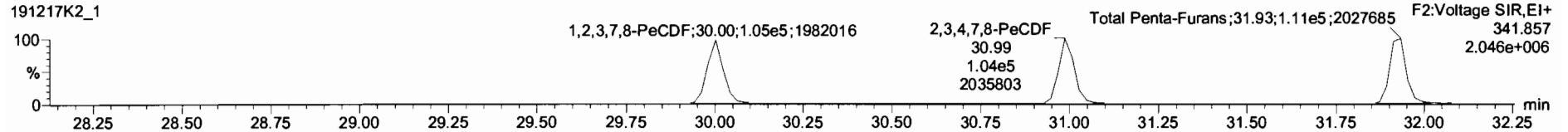
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1,2,3,7,8-PeCDF

191217K2_1

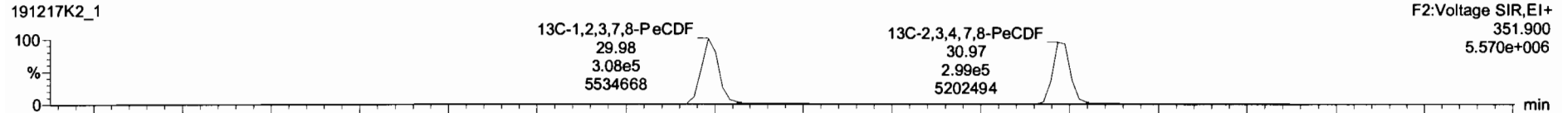


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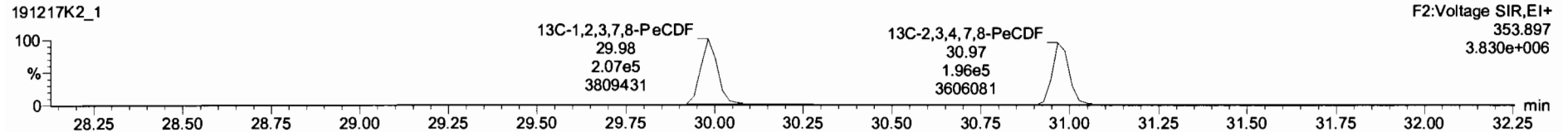


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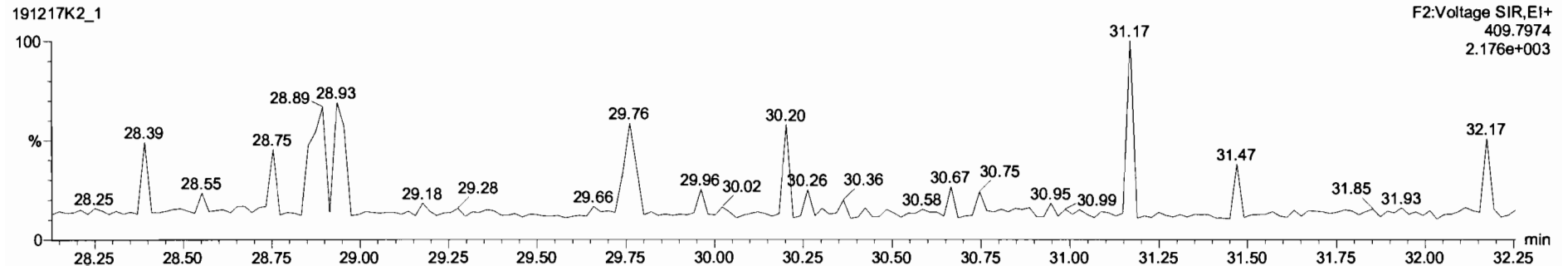


191217K2_1



DPE2

191217K2_1

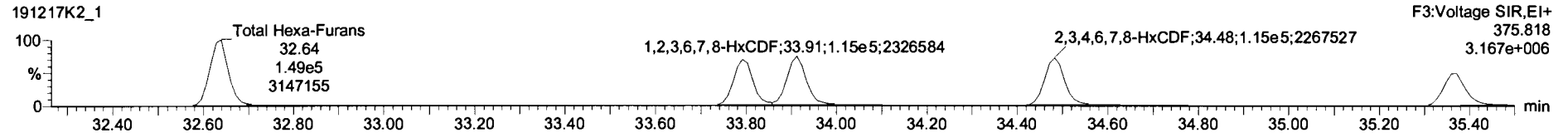
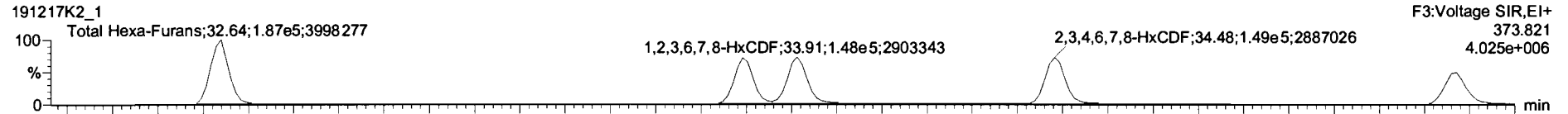


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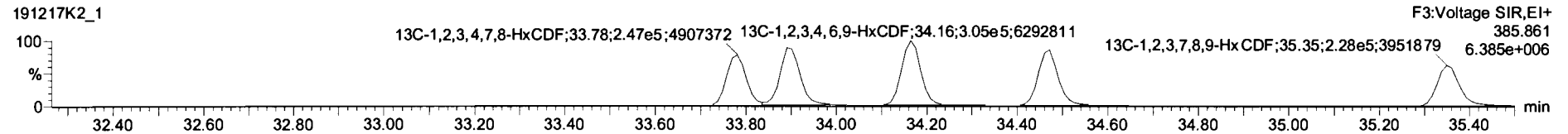
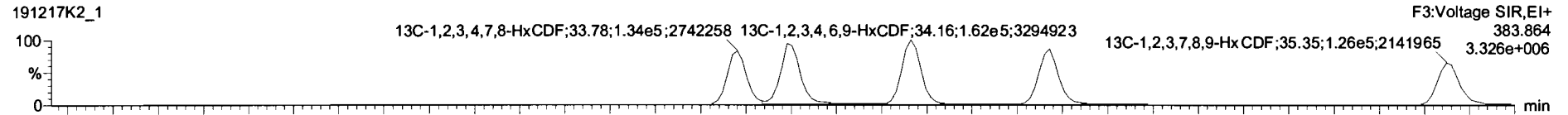
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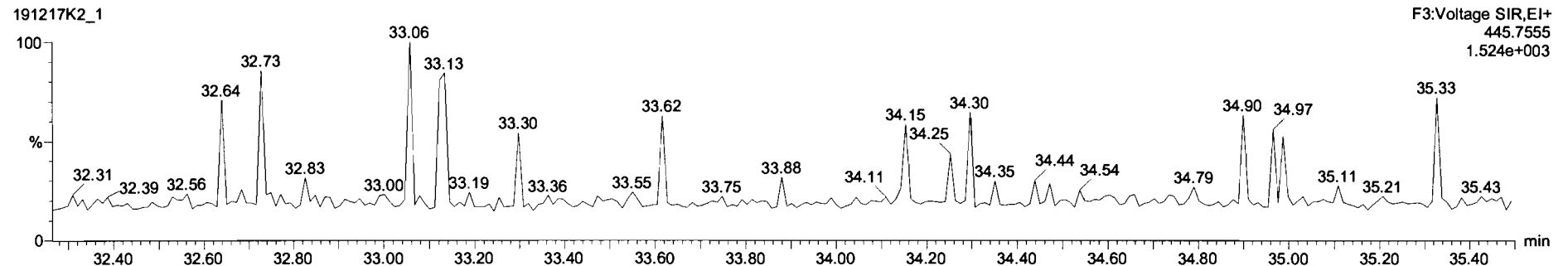
1,2,3,4,7,8-HxCDF



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



DPE3

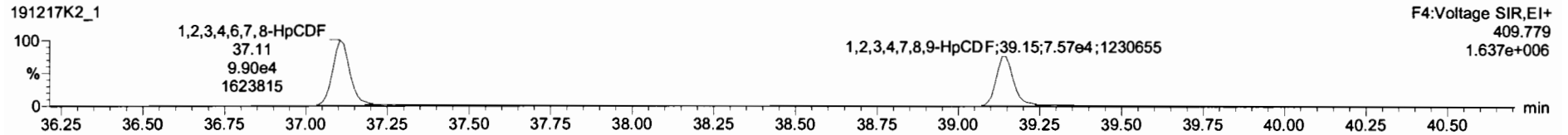
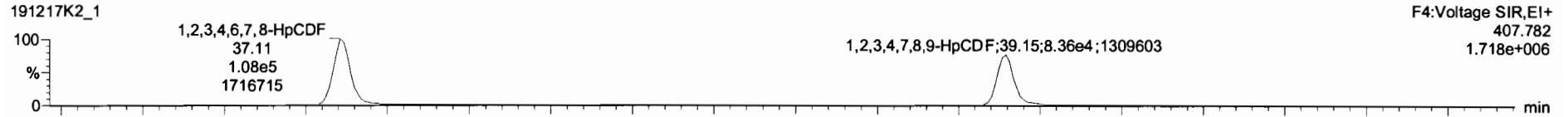


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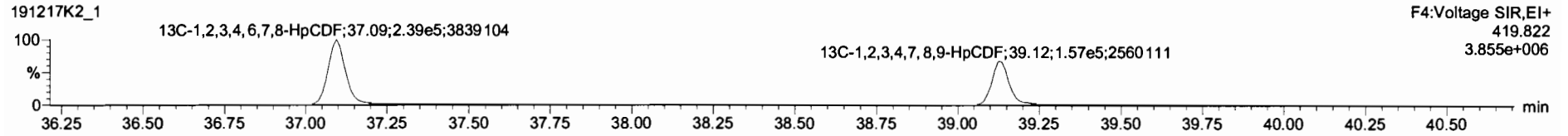
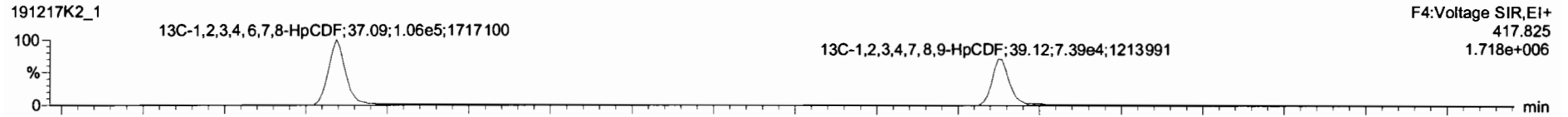
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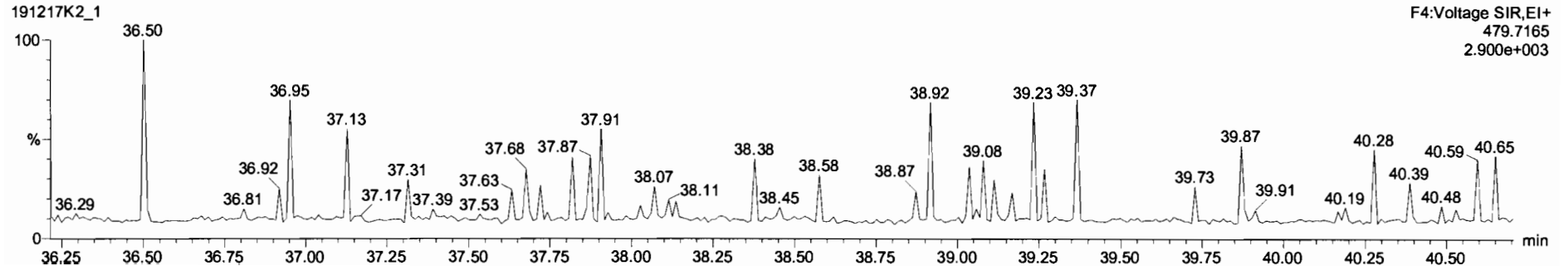
1,2,3,4,6,7,8-HpCDF



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



DPE4

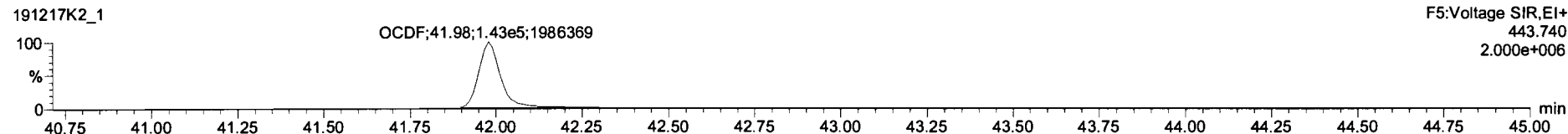
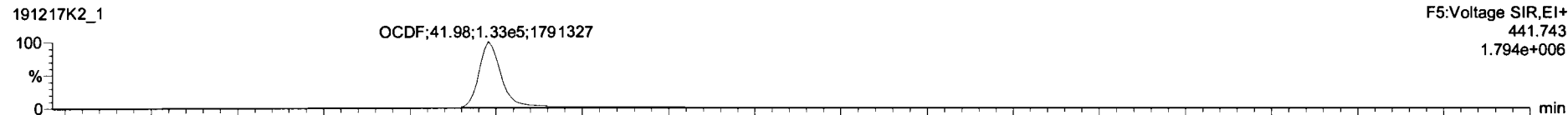


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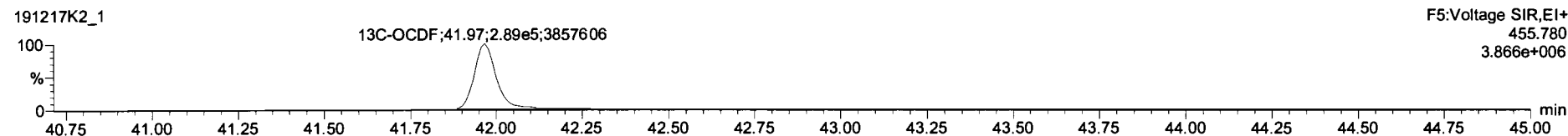
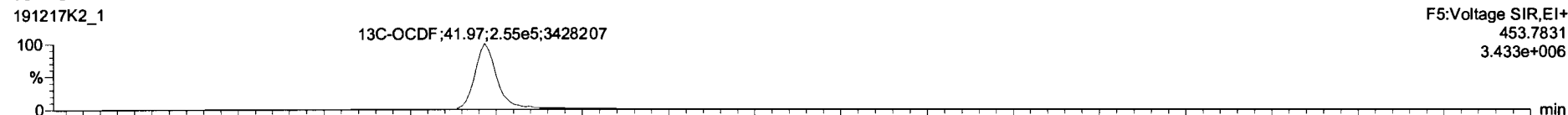
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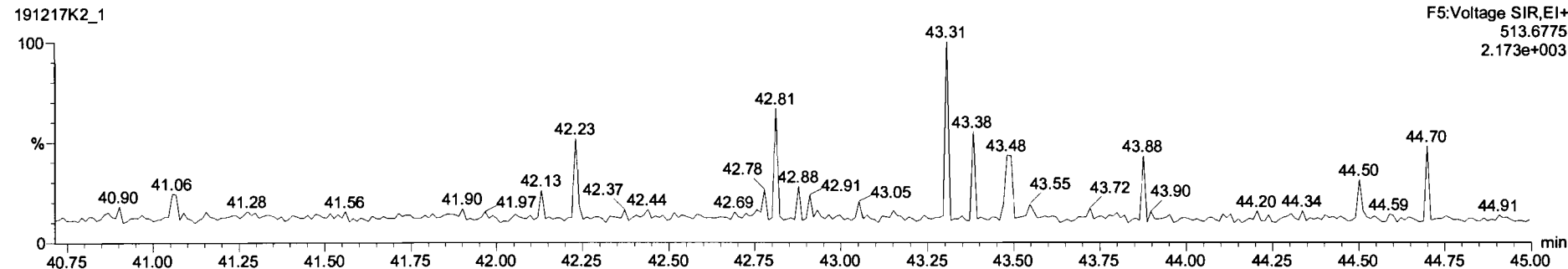
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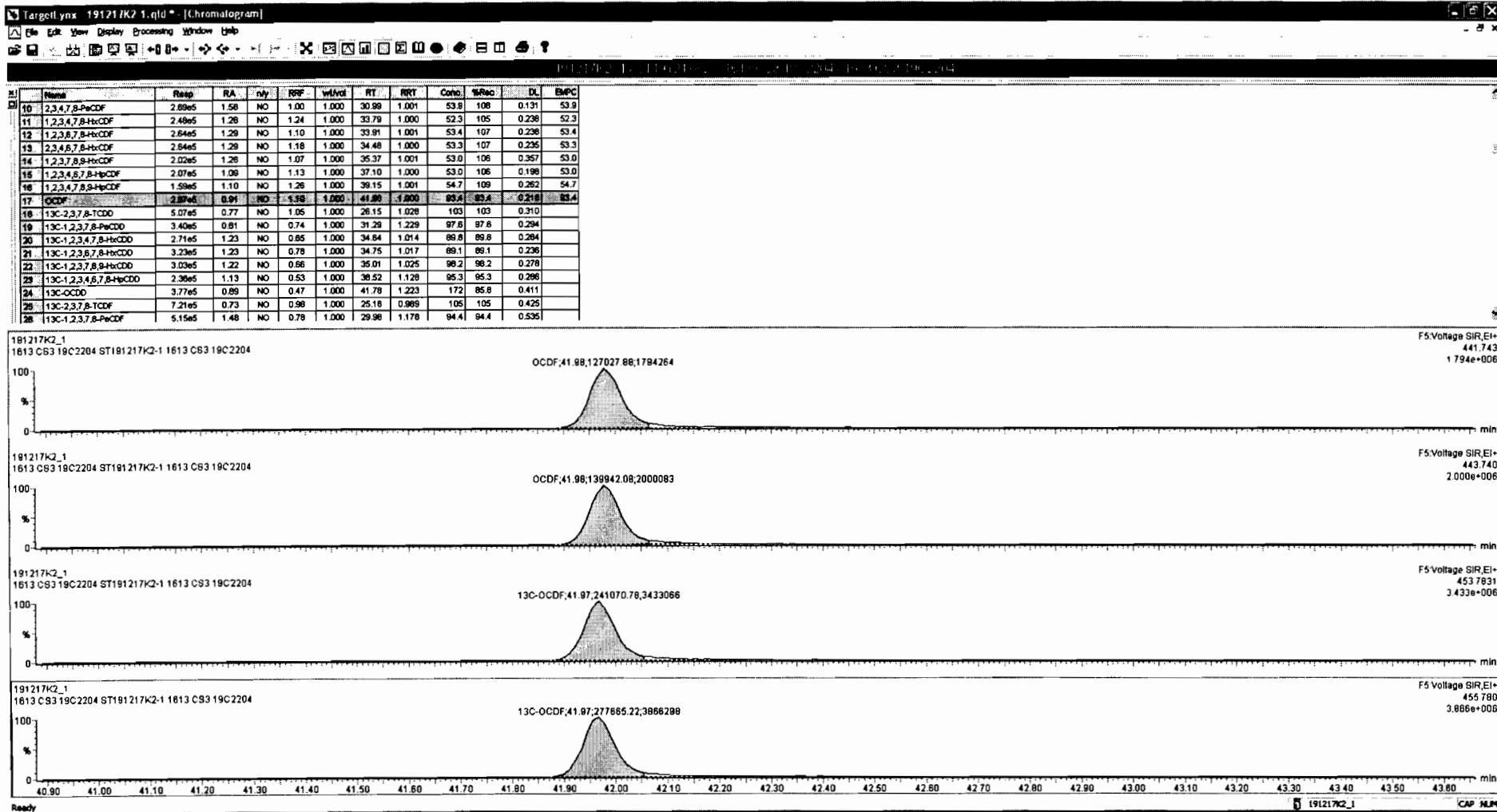


13C-OCDF



DPE5



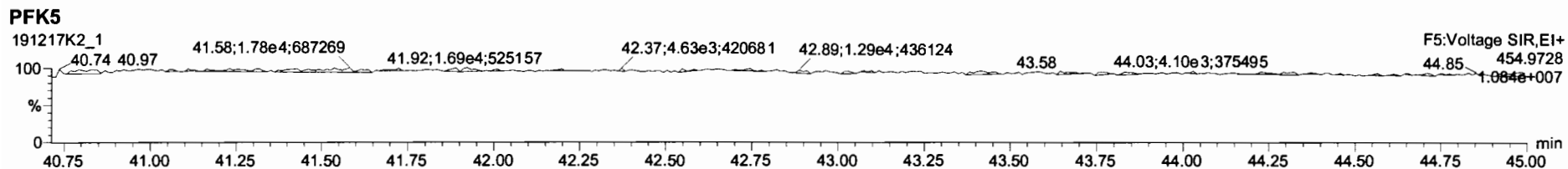
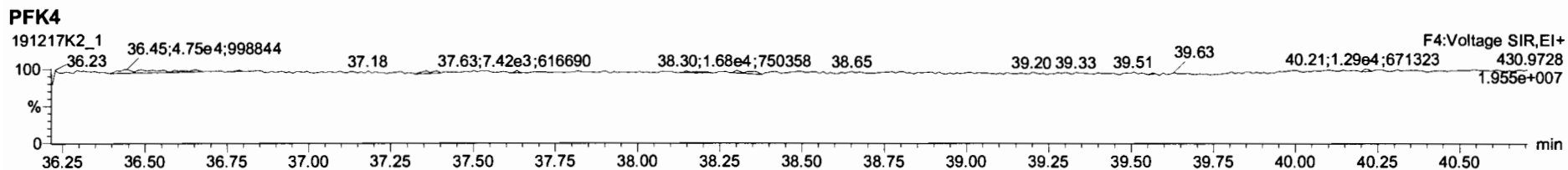
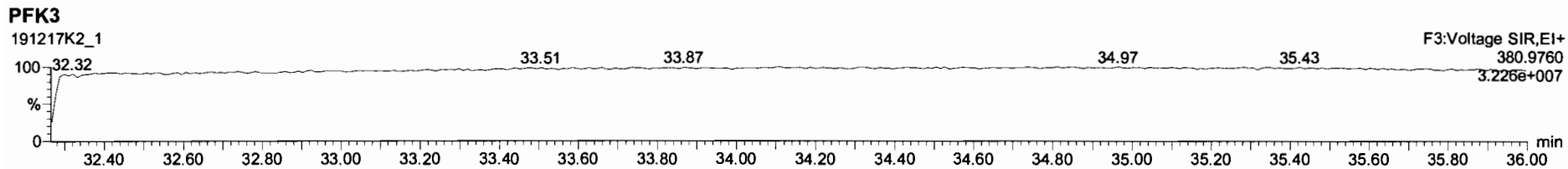
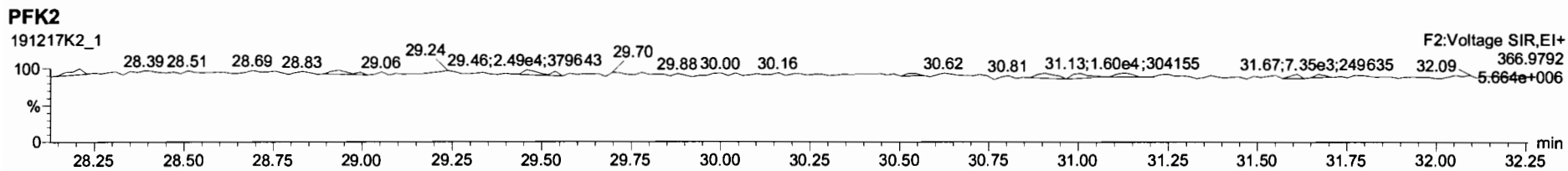
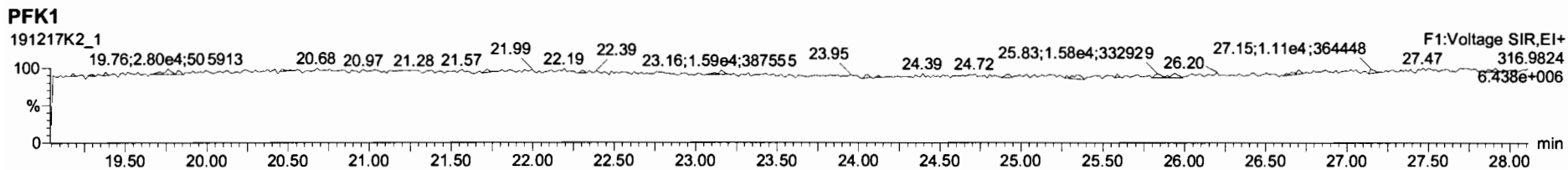


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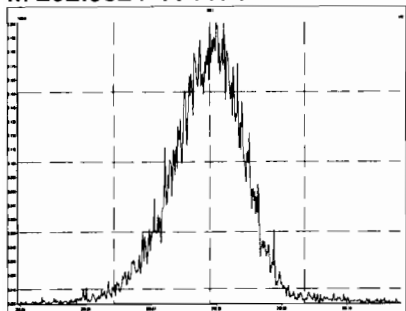
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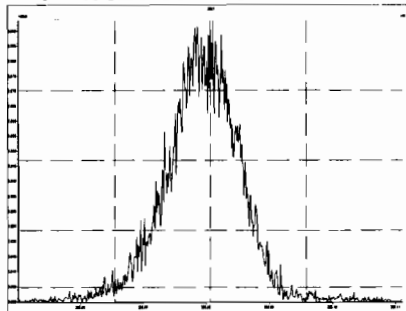


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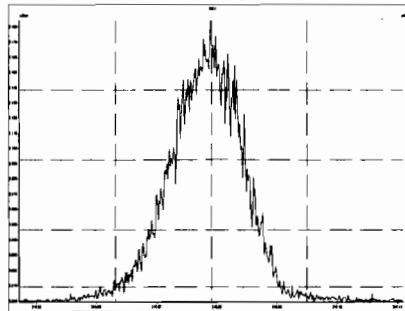
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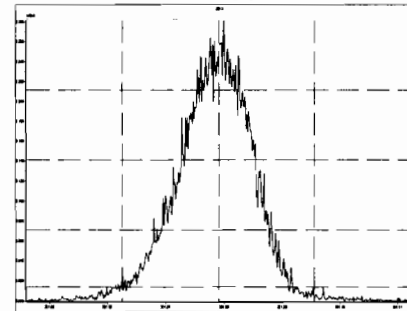
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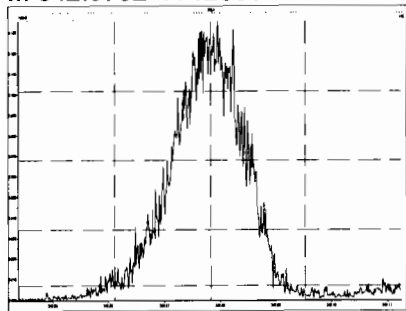
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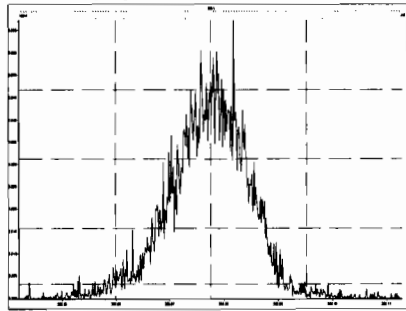
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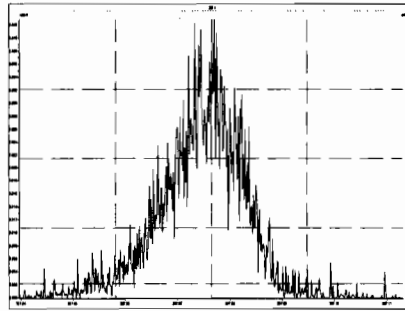
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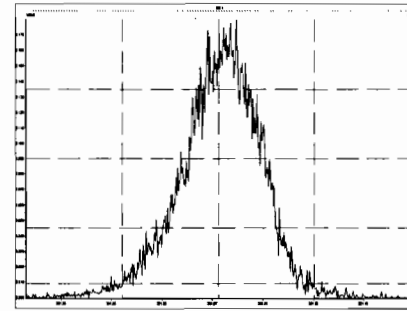
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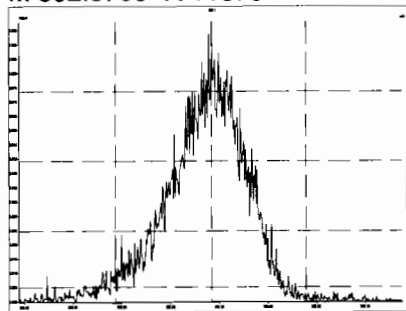
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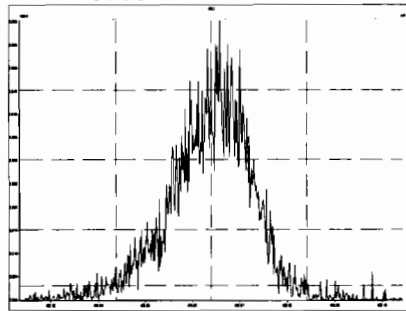
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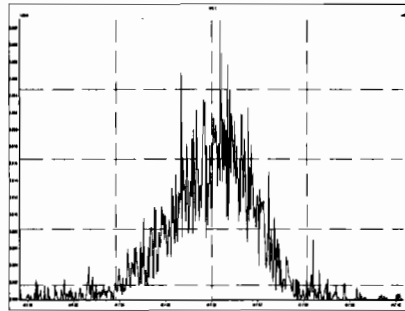
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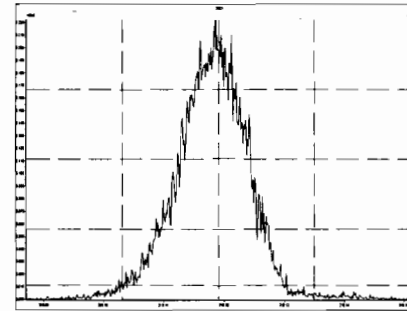
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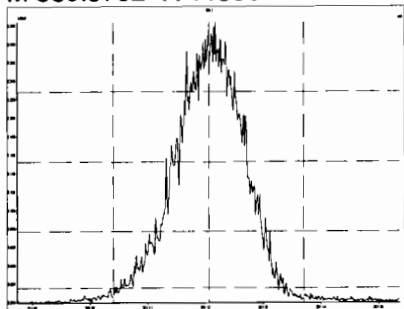


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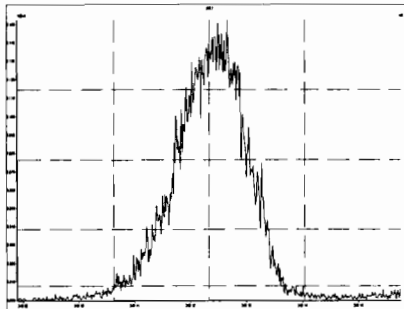


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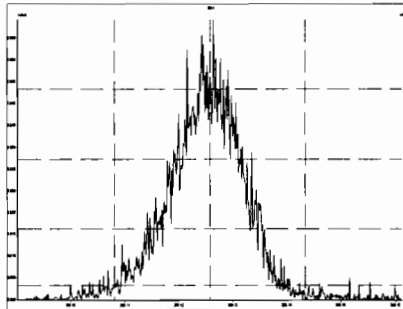
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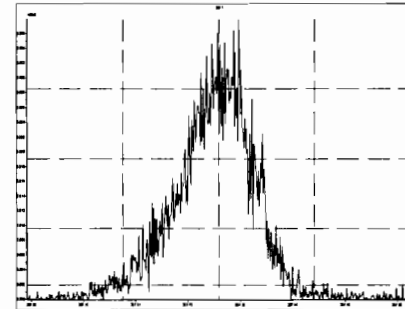
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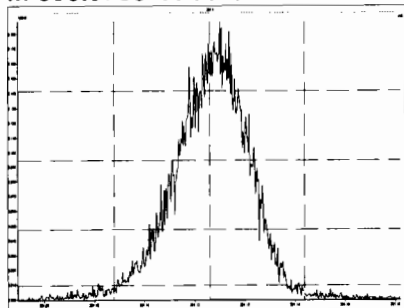
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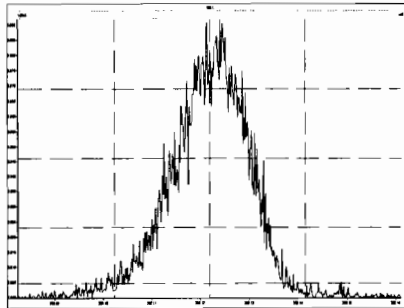
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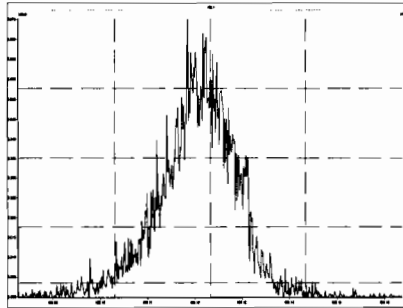
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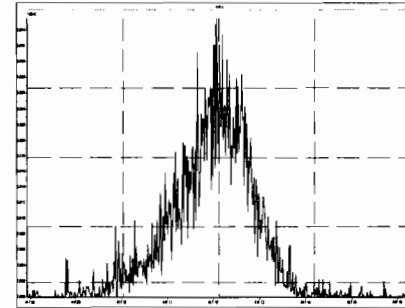
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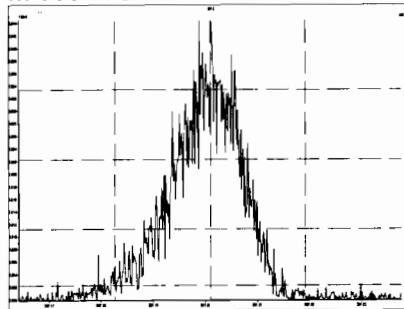
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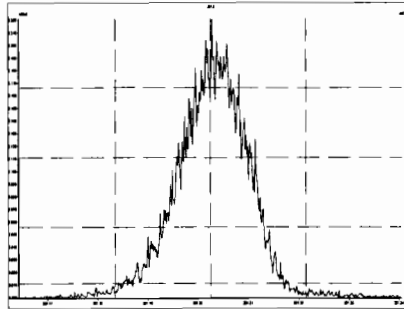
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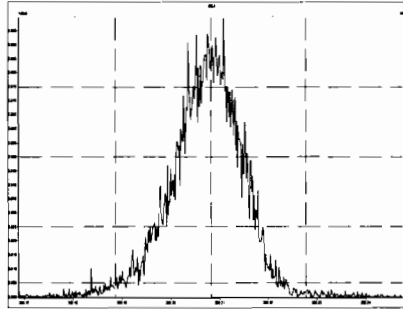
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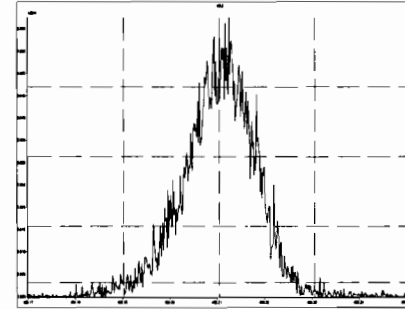
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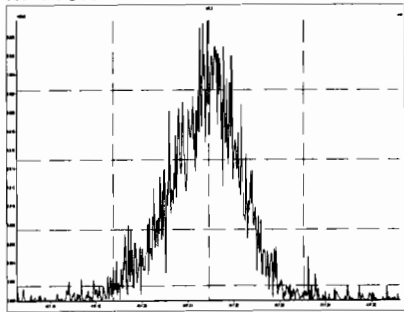


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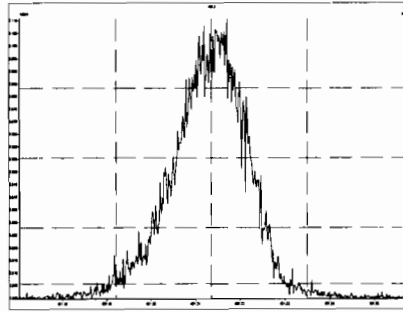


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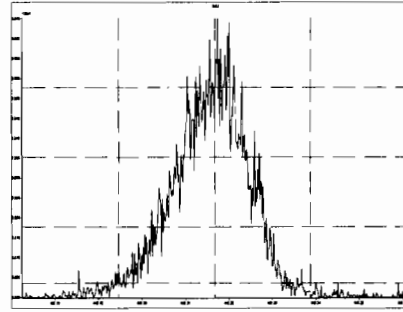
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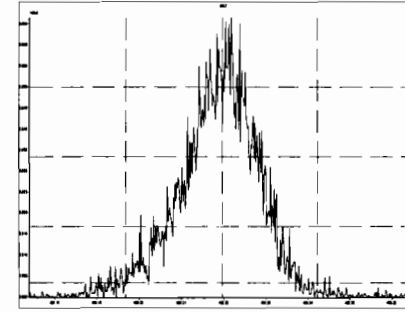
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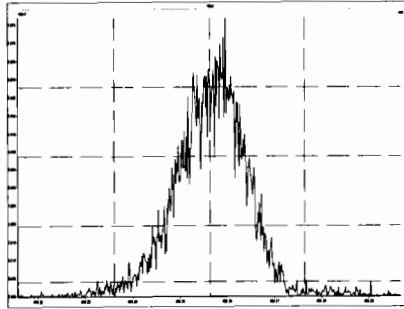
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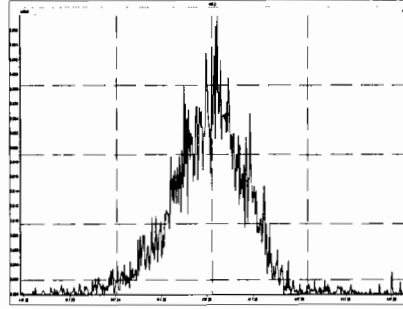
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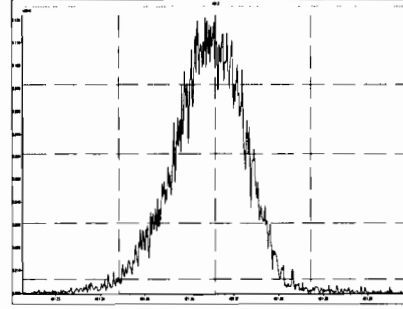
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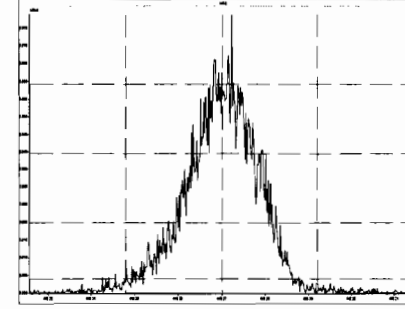
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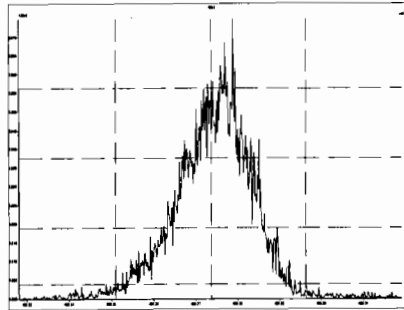
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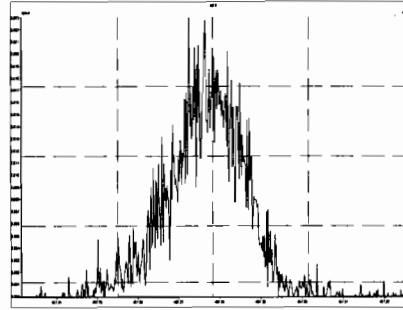
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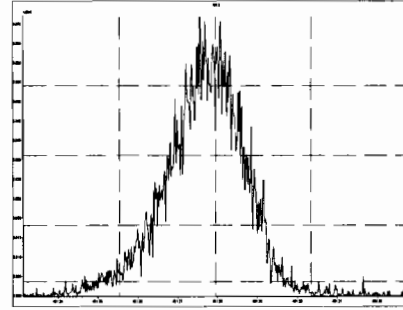
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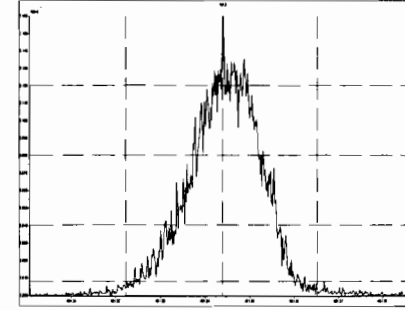
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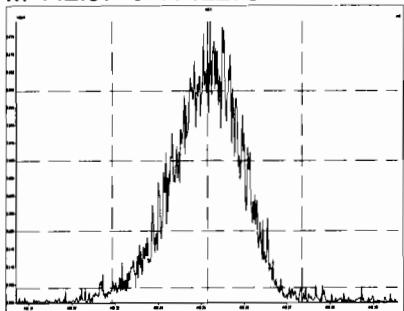


M 430.9728 R 12316

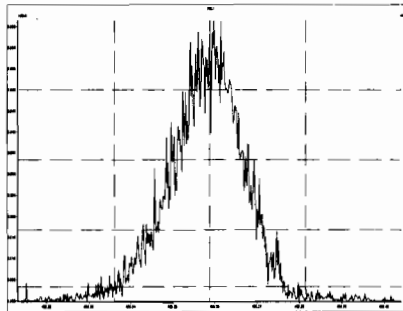


Printed: Wednesday, December 18, 2019 02:05:14 Pacific Standard Time

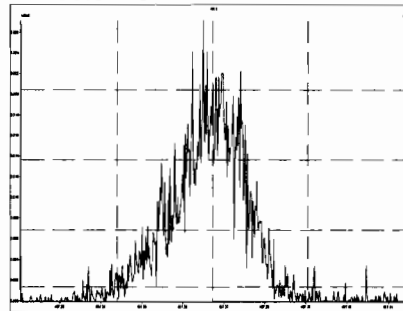
M 442.9728 R 12278



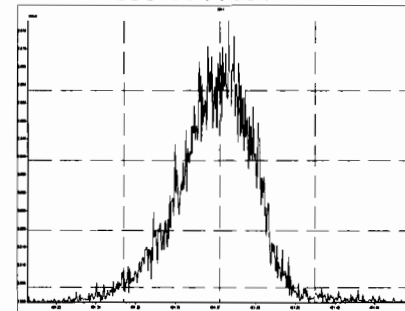
M 454.9728 R 11990



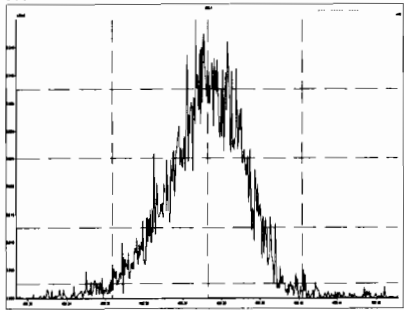
M 466.9728 R 12691



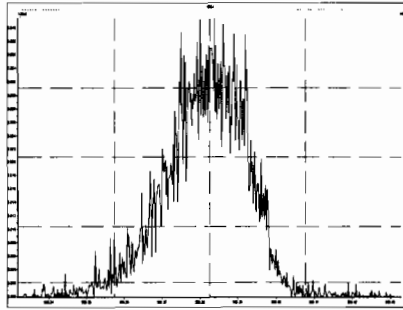
M 480.9696 R 11691



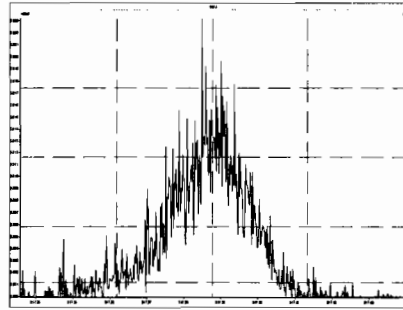
M 492.9696 R 12762



M 504.9696 R 11720



M 516.9697 R 13826



INITIAL CALIBRATION

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

Last Altered: Wednesday, May 08, 2019 7:55:45 AM Pacific Daylight Time
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He 5-8-19

DB 5/20/19

Method: U:\VG11.PRO\MethDB\1613_rrt-5-7-19.mdb 07 May 2019 12:51:47
 Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Compound name: 2,3,7,8-TCDD
 Response Factor: 0.924948
 RRF SD: 0.0405637, Relative SD: 4.38551
 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	190507K1_2	0.250	0.88	NO	26.34	1.000	1.33e3	5.80e5	0.247	-1.2	0.914	MM
2	190507K1_3	10.0	0.78	NO	26.36	1.001	5.65e4	6.19e5	9.87	-1.3	0.913	MM
3	190507K1_4	0.500	0.80	NO	26.36	1.001	3.15e3	6.64e5	0.513	2.7	0.950	MM
4	190507K1_5	2.00	0.79	NO	26.34	1.001	1.19e4	6.91e5	1.85	-7.3	0.857	MM
5	190507K1_6	40.0	0.78	NO	26.36	1.001	2.26e5	6.01e5	40.7	1.8	0.941	bb
6	190507K1_7	300	0.78	NO	26.36	1.001	2.60e6	8.87e5	316	5.4	0.975	bb

Compound name: 1,2,3,7,8-PeCDD
 Response Factor: 0.904644
 RRF SD: 0.0649505, Relative SD: 7.17968
 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	190507K1_2	1.25	0.67	NO	31.14	1.001	4.13e3	3.79e5	1.20	-3.7	0.871	MM
2	190507K1_3	50.0	0.63	NO	31.14	1.001	1.80e5	4.47e5	44.5	-11.0	0.806	MM
3	190507K1_4	2.50	0.57	NO	31.14	1.001	1.07e4	4.65e5	2.54	1.6	0.919	bb
4	190507K1_5	10.0	0.66	NO	31.14	1.001	4.19e4	4.73e5	9.78	-2.2	0.885	MM
5	190507K1_6	200	0.61	NO	31.14	1.001	8.32e5	4.25e5	216	8.1	0.978	bb
6	190507K1_7	1500	0.62	NO	31.14	1.001	1.00e7	6.89e5	1610	7.1	0.969	MM

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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

Response Factor: 1.06909

RRF SD: 0.071776, Relative SD: 6.71372

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	190507K1_2	1.25	1.38	NO	34.42	1.001	3.85e3	3.03e5	1.19	-4.8	1.02	bd
2	190507K1_3	50.0	1.28	NO	34.42	1.000	1.76e5	3.36e5	49.0	-2.0	1.05	bd
3	190507K1_4	2.50	1.25	NO	34.41	1.000	8.65e3	3.49e5	2.32	-7.4	0.990	bd
4	190507K1_5	10.0	1.24	NO	34.41	1.000	3.88e4	3.69e5	9.82	-1.8	1.05	MM
5	190507K1_6	200	1.25	NO	34.41	1.000	7.36e5	3.27e5	210	5.2	1.13	bd
6	190507K1_7	1500	1.25	NO	34.42	1.001	9.53e6	5.37e5	1660	10.7	1.18	bd

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

Response Factor: 0.967479

RRF SD: 0.0402916, Relative SD: 4.16459

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	190507K1_2	1.25	1.40	NO	34.53	1.001	4.41e3	3.71e5	1.23	-1.6	0.952	MM
2	190507K1_3	50.0	1.26	NO	34.53	1.000	1.92e5	4.10e5	48.5	-3.0	0.938	db
3	190507K1_4	2.50	1.17	NO	34.53	1.001	9.34e3	4.07e5	2.37	-5.1	0.918	MM
4	190507K1_5	10.0	1.22	NO	34.52	1.000	4.16e4	4.30e5	9.99	-0.1	0.967	db
5	190507K1_6	200	1.25	NO	34.52	1.000	7.88e5	3.86e5	211	5.5	1.02	db
6	190507K1_7	1500	1.25	NO	34.52	1.000	1.02e7	6.73e5	1560	4.3	1.01	db

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

Response Factor: 0.977795

RRF SD: 0.0369, Relative SD: 3.7738

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	190507K1_2	1.25	1.09	NO	34.81	1.000	3.66e3	2.90e5	1.29	3.2	1.01	MM
2	190507K1_3	50.0	1.35	NO	34.81	1.000	1.63e5	3.44e5	48.4	-3.2	0.947	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	190507K1_4	2.50	1.22	NO	34.80	1.000	8.28e3	3.44e5	2.46	-1.4	0.964	MM
4	190507K1_5	10.0	1.22	NO	34.80	1.000	3.65e4	3.93e5	9.51	-4.9	0.929	bb
5	190507K1_6	200	1.22	NO	34.80	1.000	6.68e5	3.27e5	209	4.6	1.02	MM
6	190507K1_7	1500	1.20	NO	34.81	1.000	8.68e6	5.82e5	1530	1.8	0.995	MM

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

Response Factor: 1.03751

RRF SD: 0.0369608, Relative SD: 3.56246

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	190507K1_2	1.25	0.97	NO	38.32	1.001	3.20e3	2.52e5	1.23	-1.9	1.02	MM
2	190507K1_3	50.0	1.03	NO	38.32	1.000	1.42e5	2.76e5	49.5	-0.9	1.03	bb
3	190507K1_4	2.50	1.16	NO	38.31	1.000	7.08e3	2.70e5	2.53	1.0	1.05	bb
4	190507K1_5	10.0	1.05	NO	38.31	1.000	2.98e4	3.04e5	9.46	-5.4	0.981	MM
5	190507K1_6	200	1.03	NO	38.31	1.000	5.83e5	2.74e5	205	2.5	1.06	MM
6	190507K1_7	1500	1.05	NO	38.31	1.000	7.58e6	4.65e5	1570	4.8	1.09	bb

Compound name: OCDD

Response Factor: 0.971773

RRF SD: 0.0504127, Relative SD: 5.1877

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	190507K1_2	2.50	0.90	NO	41.48	1.001	5.20e3	4.62e5	2.32	-7.4	0.900	MM
2	190507K1_3	100	0.90	NO	41.48	1.000	2.35e5	4.72e5	103	2.6	0.997	MM
3	190507K1_4	5.00	0.95	NO	41.46	1.000	1.13e4	4.66e5	4.97	-0.5	0.966	MM
4	190507K1_5	20.0	0.89	NO	41.47	1.000	4.71e4	5.06e5	19.2	-4.2	0.931	MM
5	190507K1_6	400	0.90	NO	41.47	1.000	9.61e5	4.83e5	410	2.4	0.995	MM
6	190507K1_7	3000	0.90	NO	41.48	1.000	1.35e7	8.65e5	3210	7.0	1.04	MM

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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

Response Factor: 0.937613
 RRF SD: 0.0427885, Relative SD: 4.56356
 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	190507K1_2	0.250	0.81	NO	25.50	1.001	1.85e3	8.07e5	0.245	-2.1	0.918	MM
2	190507K1_3	10.0	0.78	NO	25.51	1.001	7.75e4	8.61e5	9.59	-4.1	0.899	bb
3	190507K1_4	0.500	0.80	NO	25.50	1.001	4.06e3	8.97e5	0.482	-3.6	0.904	MM
4	190507K1_5	2.00	0.77	NO	25.50	1.001	1.71e4	9.28e5	1.97	-1.7	0.922	bb
5	190507K1_6	40.0	0.77	NO	25.50	1.001	3.18e5	8.09e5	42.0	5.0	0.984	bb
6	190507K1_7	300	0.78	NO	25.51	1.001	3.44e6	1.15e6	320	6.5	0.999	bb

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

Response Factor: 0.976196
 RRF SD: 0.0578773, Relative SD: 5.92886
 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	190507K1_2	1.25	1.71	NO	29.89	1.000	6.85e3	6.20e5	1.13	-9.3	0.885	MM
2	190507K1_3	50.0	1.58	NO	29.91	1.001	3.23e5	6.71e5	49.3	-1.4	0.962	bb
3	190507K1_4	2.50	1.55	NO	29.89	1.000	1.67e4	6.91e5	2.48	-0.8	0.968	MM
4	190507K1_5	10.0	1.65	NO	29.89	1.000	6.93e4	7.19e5	9.86	-1.4	0.963	bd
5	190507K1_6	200	1.63	NO	29.89	1.000	1.34e6	6.45e5	213	6.7	1.04	bd
6	190507K1_7	1500	1.57	NO	29.91	1.001	1.58e7	1.02e6	1590	6.3	1.04	bb

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

Response Factor: 1.00488
 RRF SD: 0.0625517, Relative SD: 6.22482
 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	190507K1_2	1.25	1.69	NO	30.86	1.001	6.68e3	5.77e5	1.15	-7.8	0.926	MM
2	190507K1_3	50.0	1.58	NO	30.86	1.001	3.17e5	6.35e5	49.7	-0.5	1.00	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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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	190507K1_4	2.50	1.59	NO	30.86	1.001	1.67e4	6.65e5	2.50	0.0	1.00	bb
4	190507K1_5	10.0	1.58	NO	30.86	1.001	6.82e4	7.20e5	9.42	-5.8	0.947	bb
5	190507K1_6	200	1.58	NO	30.86	1.001	1.34e6	6.22e5	214	6.9	1.07	bb
6	190507K1_7	1500	1.58	NO	30.86	1.001	1.61e7	9.94e5	1610	7.2	1.08	bb

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

Response Factor: 1.24344

RRF SD: 0.0556273, Relative SD: 4.47366

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	190507K1_2	1.25	1.34	NO	33.54	1.000	6.00e3	4.01e5	1.20	-3.7	1.20	bd
2	190507K1_3	50.0	1.25	NO	33.56	1.001	2.69e5	4.41e5	49.1	-1.8	1.22	bd
3	190507K1_4	2.50	1.24	NO	33.54	1.001	1.35e4	4.57e5	2.38	-4.9	1.18	bd
4	190507K1_5	10.0	1.26	NO	33.54	1.001	5.97e4	4.82e5	9.96	-0.4	1.24	bd
5	190507K1_6	200	1.24	NO	33.54	1.000	1.10e6	4.20e5	211	5.5	1.31	bd
6	190507K1_7	1500	1.24	NO	33.54	1.000	1.38e7	7.03e5	1580	5.4	1.31	bd

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

Response Factor: 1.09501

RRF SD: 0.0731388, Relative SD: 6.67929

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	190507K1_2	1.25	1.35	NO	33.67	1.000	6.12e3	4.90e5	1.14	-8.8	0.999	MM
2	190507K1_3	50.0	1.26	NO	33.68	1.000	3.02e5	5.46e5	50.5	1.0	1.11	MM
3	190507K1_4	2.50	1.14	NO	33.68	1.001	1.42e4	5.55e5	2.33	-6.7	1.02	MM
4	190507K1_5	10.0	1.22	NO	33.67	1.000	6.32e4	5.73e5	10.1	0.7	1.10	MM
5	190507K1_6	200	1.23	NO	33.67	1.000	1.18e6	5.09e5	211	5.5	1.16	db
6	190507K1_7	1500	1.24	NO	33.68	1.000	1.52e7	8.53e5	1620	8.3	1.19	db

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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

Response Factor: 1.1806

RRF SD: 0.0976101, Relative SD: 8.26786

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	190507K1_2	1.25	1.22	NO	34.26	1.000	5.74e3	4.48e5	1.09	-13.1	1.03	MM
2	190507K1_3	50.0	1.26	NO	34.27	1.001	2.75e5	4.57e5	51.0	2.0	1.20	bb
3	190507K1_4	2.50	1.27	NO	34.26	1.000	1.40e4	4.86e5	2.43	-2.7	1.15	bd
4	190507K1_5	10.0	1.22	NO	34.26	1.001	5.76e4	5.05e5	9.67	-3.3	1.14	MM
5	190507K1_6	200	1.25	NO	34.26	1.001	1.12e6	4.40e5	216	8.1	1.28	bb
6	190507K1_7	1500	1.24	NO	34.26	1.000	1.40e7	7.27e5	1640	9.1	1.29	MM

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

Response Factor: 1.07281

RRF SD: 0.121558, Relative SD: 11.3308

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	190507K1_2	1.25	1.19	NO	35.17	1.000	3.73e3	3.43e5	1.01	-19.1	0.868	MM
2	190507K1_3	50.0	1.25	NO	35.19	1.000	2.00e5	3.80e5	49.1	-1.8	1.05	MM
3	190507K1_4	2.50	1.26	NO	35.18	1.000	1.02e4	3.91e5	2.42	-3.1	1.04	MM
4	190507K1_5	10.0	1.25	NO	35.18	1.000	4.51e4	4.16e5	10.1	1.1	1.08	MM
5	190507K1_6	200	1.25	NO	35.18	1.001	8.63e5	3.64e5	221	10.4	1.18	MM
6	190507K1_7	1500	1.24	NO	35.19	1.001	1.15e7	6.37e5	1690	12.5	1.21	bb

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

Response Factor: 1.12998

RRF SD: 0.056055, Relative SD: 4.96072

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	190507K1_2	1.25	1.19	NO	36.92	1.001	4.83e3	3.64e5	1.18	-5.9	1.06	MM
2	190507K1_3	50.0	1.05	NO	36.94	1.001	2.21e5	3.98e5	49.3	-1.5	1.11	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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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	190507K1_4	2.50	1.03	NO	36.91	1.000	1.12e4	4.08e5	2.44	-2.4	1.10	MM
4	190507K1_5	10.0	1.01	NO	36.91	1.000	4.63e4	4.18e5	9.80	-2.0	1.11	bb
5	190507K1_6	200	1.03	NO	36.91	1.000	8.93e5	3.80e5	208	4.0	1.18	MM
6	190507K1_7	1500	1.04	NO	36.92	1.000	1.14e7	6.22e5	1620	7.7	1.22	bb

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

Response Factor: 1.26094

RRF SD: 0.121952, Relative SD: 9.67152

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	190507K1_2	1.25	1.07	NO	38.86	1.000	4.31e3	2.51e5	1.36	9.0	1.37	MM
2	190507K1_3	50.0	1.10	NO	38.87	1.000	1.69e5	2.88e5	46.4	-7.1	1.17	MM
3	190507K1_4	2.50	1.04	NO	38.86	1.000	8.36e3	2.91e5	2.28	-9.0	1.15	MM
4	190507K1_5	10.0	1.04	NO	38.86	1.000	3.47e4	3.06e5	8.99	-10.1	1.13	MM
5	190507K1_6	200	1.06	NO	38.86	1.000	7.19e5	2.58e5	221	10.3	1.39	bb
6	190507K1_7	1500	1.03	NO	38.87	1.000	9.34e6	4.62e5	1600	6.9	1.35	bb

Compound name: OCDF

Response Factor: 1.10253

RRF SD: 0.218115, Relative SD: 19.7831

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	190507K1_2	2.50	0.91	NO	41.69	1.000	1.12e4	5.83e5	3.49	39.5	1.54	MM
2	190507K1_3	100	0.90	NO	41.71	1.000	3.03e5	6.08e5	90.4	-9.6	0.997	MM
3	190507K1_4	5.00	0.89	NO	41.70	1.000	1.58e4	6.30e5	4.54	-9.2	1.00	MM
4	190507K1_5	20.0	0.93	NO	41.69	1.000	6.07e4	6.40e5	17.2	-13.9	0.950	MM
5	190507K1_6	400	0.90	NO	41.70	1.000	1.21e6	5.80e5	378	-5.5	1.04	MM
6	190507K1_7	3000	0.91	NO	41.71	1.000	1.71e7	1.05e6	2960	-1.3	1.09	MM

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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

Response Factor: 1.04889

RRF SD: 0.0285302, Relative SD: 2.72003

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	190507K1_2	100	0.78	NO	26.34	1.026	5.80e5	5.62e5	98.5	-1.5	1.03	bb
2	190507K1_3	100	0.80	NO	26.34	1.026	6.19e5	6.00e5	98.4	-1.6	1.03	bb
3	190507K1_4	100	0.78	NO	26.33	1.026	6.64e5	6.32e5	100	0.1	1.05	bb
4	190507K1_5	100	0.78	NO	26.33	1.025	6.91e5	6.60e5	99.9	-0.1	1.05	bb
5	190507K1_6	100	0.79	NO	26.34	1.026	6.01e5	5.86e5	97.8	-2.2	1.03	bb
6	190507K1_7	100	0.78	NO	26.34	1.026	8.87e5	8.04e5	105	5.3	1.10	bb

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

Response Factor: 0.7429

RRF SD: 0.0610463, Relative SD: 8.21729

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	190507K1_2	100	0.63	NO	31.12	1.212	3.79e5	5.62e5	90.9	-9.1	0.675	MM
2	190507K1_3	100	0.61	NO	31.12	1.212	4.47e5	6.00e5	100	0.4	0.746	bb
3	190507K1_4	100	0.64	NO	31.12	1.212	4.65e5	6.32e5	99.1	-0.9	0.736	bb
4	190507K1_5	100	0.59	NO	31.12	1.212	4.73e5	6.60e5	96.5	-3.5	0.717	MM
5	190507K1_6	100	0.60	NO	31.12	1.212	4.25e5	5.86e5	97.8	-2.2	0.726	MM
6	190507K1_7	100	0.63	NO	31.12	1.212	6.89e5	8.04e5	115	15.4	0.857	MM

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

Response Factor: 0.646258

RRF SD: 0.0314471, Relative SD: 4.86603

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	190507K1_2	100	1.34	NO	34.40	1.014	3.03e5	4.98e5	94.1	-5.9	0.608	bd
2	190507K1_3	100	1.24	NO	34.41	1.014	3.36e5	5.10e5	102	1.8	0.658	bd

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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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
190507K1_4	100	1.31	NO	34.40	1.014	3.49e5	5.59e5	96.7	-3.3	0.625	bd
190507K1_5	100	1.32	NO	34.40	1.014	3.69e5	5.73e5	99.7	-0.3	0.644	MM
190507K1_6	100	1.26	NO	34.40	1.014	3.27e5	5.09e5	99.5	-0.5	0.643	bd
190507K1_7	100	1.27	NO	34.40	1.014	5.37e5	7.67e5	108	8.3	0.700	bd

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

Response Factor: 0.776669

RRF SD: 0.0552613, Relative SD: 7.11516

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
190507K1_2	100	1.28	NO	34.51	1.017	3.71e5	4.98e5	95.9	-4.1	0.745	MM
190507K1_3	100	1.25	NO	34.52	1.017	4.10e5	5.10e5	103	3.3	0.802	db
190507K1_4	100	1.28	NO	34.51	1.017	4.07e5	5.59e5	93.6	-6.4	0.727	MM
190507K1_5	100	1.26	NO	34.51	1.017	4.30e5	5.73e5	96.7	-3.3	0.751	db
190507K1_6	100	1.28	NO	34.51	1.017	3.86e5	5.09e5	97.5	-2.5	0.758	db
190507K1_7	100	1.27	NO	34.51	1.017	6.73e5	7.67e5	113	12.9	0.877	db

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

Response Factor: 0.659499

RRF SD: 0.0613845, Relative SD: 9.30774

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
190507K1_2	100	1.25	NO	34.80	1.025	2.90e5	4.98e5	88.4	-11.6	0.583	MM
190507K1_3	100	1.18	NO	34.80	1.025	3.44e5	5.10e5	102	2.2	0.674	MM
190507K1_4	100	1.26	NO	34.78	1.025	3.44e5	5.59e5	93.2	-6.8	0.615	MM
190507K1_5	100	1.25	NO	34.78	1.025	3.93e5	5.73e5	104	3.9	0.685	bb
190507K1_6	100	1.32	NO	34.78	1.025	3.27e5	5.09e5	97.3	-2.7	0.642	MM
190507K1_7	100	1.25	NO	34.80	1.026	5.82e5	7.67e5	115	15.0	0.758	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

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

Response Factor: 0.534168
 RRF SD: 0.0414632, Relative SD: 7.76221
 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	190507K1_2	100	1.01	NO	38.30	1.128	2.52e5	4.98e5	94.6	-5.4	0.506	MM
2	190507K1_3	100	1.05	NO	38.31	1.129	2.76e5	5.10e5	101	1.3	0.541	MM
3	190507K1_4	100	1.06	NO	38.30	1.129	2.70e5	5.59e5	90.5	-9.5	0.484	MM
4	190507K1_5	100	1.09	NO	38.30	1.129	3.04e5	5.73e5	99.3	-0.7	0.530	MM
5	190507K1_6	100	1.06	NO	38.30	1.129	2.74e5	5.09e5	101	0.8	0.539	MM
6	190507K1_7	100	1.07	NO	38.31	1.129	4.65e5	7.67e5	113	13.4	0.606	bb

Compound name: 13C-OCDD

Response Factor: 0.470365
 RRF SD: 0.0499896, Relative SD: 10.6278
 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	190507K1_2	200	0.91	NO	41.46	1.221	4.62e5	4.98e5	198	-1.2	0.465	MM
2	190507K1_3	200	0.89	NO	41.47	1.222	4.72e5	5.10e5	196	-1.8	0.462	MM
3	190507K1_4	200	0.89	NO	41.46	1.222	4.66e5	5.59e5	177	-11.4	0.417	MM
4	190507K1_5	200	0.89	NO	41.46	1.222	5.06e5	5.73e5	188	-6.2	0.441	MM
5	190507K1_6	200	0.91	NO	41.46	1.222	4.83e5	5.09e5	202	0.8	0.474	MM
6	190507K1_7	200	0.90	NO	41.47	1.222	8.65e5	7.67e5	240	19.8	0.563	MM

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

Response Factor: 0.9775
 RRF SD: 0.00806645, Relative SD: 0.825212
 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	190507K1_2	100	0.79	NO	25.48	0.992	8.07e5	8.33e5	99.2	-0.8	0.970	bb
2	190507K1_3	100	0.76	NO	25.48	0.992	8.61e5	8.73e5	101	0.9	0.987	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-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 190507K1_4	100	0.78	NO	25.48	0.993	8.97e5	9.16e5	100	0.2	0.979	bb
4 190507K1_5	100	0.78	NO	25.48	0.992	9.28e5	9.50e5	99.9	-0.1	0.977	bb
5 190507K1_6	100	0.77	NO	25.48	0.992	8.09e5	8.36e5	98.9	-1.1	0.967	bb
6 190507K1_7	100	0.79	NO	25.48	0.992	1.15e6	1.17e6	101	0.8	0.986	bb

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

Response Factor: 0.777829

RRF SD: 0.0468157, Relative SD: 6.01876

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 190507K1_2	100	1.64	NO	29.89	1.164	6.20e5	8.33e5	95.7	-4.3	0.744	bd
2 190507K1_3	100	1.52	NO	29.89	1.164	6.71e5	8.73e5	98.8	-1.2	0.769	bb
3 190507K1_4	100	1.58	NO	29.89	1.165	6.91e5	9.16e5	97.0	-3.0	0.754	bb
4 190507K1_5	100	1.58	NO	29.89	1.164	7.19e5	9.50e5	97.4	-2.6	0.758	bb
5 190507K1_6	100	1.57	NO	29.89	1.164	6.45e5	8.36e5	99.1	-0.9	0.771	bb
6 190507K1_7	100	1.58	NO	29.89	1.164	1.02e6	1.17e6	112	12.0	0.871	bb

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

Response Factor: 0.749922

RRF SD: 0.0548586, Relative SD: 7.31524

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 190507K1_2	100	1.56	NO	30.84	1.201	5.77e5	8.33e5	92.4	-7.6	0.693	bb
2 190507K1_3	100	1.60	NO	30.84	1.201	6.35e5	8.73e5	97.0	-3.0	0.727	bb
3 190507K1_4	100	1.61	NO	30.84	1.201	6.65e5	9.16e5	96.8	-3.2	0.726	bb
4 190507K1_5	100	1.58	NO	30.84	1.201	7.20e5	9.50e5	101	1.1	0.758	bb
5 190507K1_6	100	1.58	NO	30.84	1.201	6.22e5	8.36e5	99.1	-0.9	0.743	bb
6 190507K1_7	100	1.59	NO	30.84	1.201	9.94e5	1.17e6	114	13.7	0.853	bb

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

Response Factor: 0.845154

RRF SD: 0.04026, Relative SD: 4.76363

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	190507K1_2	100	0.52	NO	33.53	0.988	4.01e5	4.98e5	95.3	-4.7	0.806	bd
2	190507K1_3	100	0.52	NO	33.53	0.988	4.41e5	5.10e5	102	2.3	0.864	bd
3	190507K1_4	100	0.51	NO	33.52	0.988	4.57e5	5.59e5	96.8	-3.2	0.818	bd
4	190507K1_5	100	0.52	NO	33.52	0.988	4.82e5	5.73e5	99.5	-0.5	0.841	bd
5	190507K1_6	100	0.52	NO	33.53	0.988	4.20e5	5.09e5	97.7	-2.3	0.826	bd
6	190507K1_7	100	0.53	NO	33.53	0.988	7.03e5	7.67e5	108	8.4	0.916	bd

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

Response Factor: 1.02668

RRF SD: 0.0516295, Relative SD: 5.02879

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	190507K1_2	100	0.53	NO	33.65	0.992	4.90e5	4.98e5	96.0	-4.0	0.986	db
2	190507K1_3	100	0.53	NO	33.67	0.992	5.46e5	5.10e5	104	4.2	1.07	db
3	190507K1_4	100	0.53	NO	33.65	0.992	5.55e5	5.59e5	96.7	-3.3	0.993	db
4	190507K1_5	100	0.54	NO	33.65	0.992	5.73e5	5.73e5	97.4	-2.6	1.00	MM
5	190507K1_6	100	0.52	NO	33.65	0.992	5.09e5	5.09e5	97.4	-2.6	1.00	db
6	190507K1_7	100	0.52	NO	33.67	0.992	8.53e5	7.67e5	108	8.3	1.11	db

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

Response Factor: 0.89286

RRF SD: 0.0303616, Relative SD: 3.40049

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	190507K1_2	100	0.50	NO	34.25	1.009	4.48e5	4.98e5	101	0.8	0.900	bb
2	190507K1_3	100	0.52	NO	34.25	1.009	4.57e5	5.10e5	100	0.2	0.895	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	190507K1_4	100	0.53	NO	34.25	1.009	4.86e5	5.59e5	97.2	-2.8	0.868	bb
4	190507K1_5	100	0.53	NO	34.24	1.009	5.05e5	5.73e5	98.7	-1.3	0.881	MM
5	190507K1_6	100	0.52	NO	34.24	1.009	4.40e5	5.09e5	96.9	-3.1	0.865	MM
6	190507K1_7	100	0.52	NO	34.25	1.009	7.27e5	7.67e5	106	6.2	0.948	bb

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

Response Factor: 0.734263

RRF SD: 0.05054, Relative SD: 6.88309

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	190507K1_2	100	0.53	NO	35.17	1.036	3.43e5	4.98e5	94.0	-6.0	0.690	MM
2	190507K1_3	100	0.51	NO	35.18	1.036	3.80e5	5.10e5	101	1.5	0.745	bb
3	190507K1_4	100	0.52	NO	35.17	1.036	3.91e5	5.59e5	95.3	-4.7	0.700	MM
4	190507K1_5	100	0.53	NO	35.17	1.037	4.16e5	5.73e5	98.8	-1.2	0.725	MM
5	190507K1_6	100	0.54	NO	35.16	1.036	3.64e5	5.09e5	97.5	-2.5	0.716	MM
6	190507K1_7	100	0.52	NO	35.17	1.036	6.37e5	7.67e5	113	13.0	0.830	MM

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

Response Factor: 0.75417

RRF SD: 0.0338797, Relative SD: 4.49232

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	190507K1_2	100	0.47	NO	36.90	1.087	3.64e5	4.98e5	96.9	-3.1	0.731	bb
2	190507K1_3	100	0.45	NO	36.91	1.088	3.98e5	5.10e5	103	3.3	0.779	bd
3	190507K1_4	100	0.43	NO	36.90	1.088	4.08e5	5.59e5	96.7	-3.3	0.729	bb
4	190507K1_5	100	0.47	NO	36.90	1.088	4.18e5	5.73e5	96.7	-3.3	0.729	bd
5	190507K1_6	100	0.45	NO	36.90	1.088	3.80e5	5.09e5	98.9	-1.1	0.746	bd
6	190507K1_7	100	0.45	NO	36.91	1.088	6.22e5	7.67e5	108	7.6	0.811	bb

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.53899

RRF SD: 0.0380601, Relative SD: 7.06137

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	190507K1_2	100	0.45	NO	38.85	1.145	2.51e5	4.98e5	93.5	-6.5	0.504	MM
2	190507K1_3	100	0.44	NO	38.86	1.145	2.88e5	5.10e5	105	4.8	0.565	bd
3	190507K1_4	100	0.42	NO	38.85	1.145	2.91e5	5.59e5	96.6	-3.4	0.521	bb
4	190507K1_5	100	0.43	NO	38.85	1.145	3.06e5	5.73e5	99.2	-0.8	0.535	bb
5	190507K1_6	100	0.43	NO	38.85	1.145	2.58e5	5.09e5	94.1	-5.9	0.507	MM
6	190507K1_7	100	0.46	NO	38.86	1.145	4.62e5	7.67e5	112	11.7	0.602	bd

Compound name: 13C-OCDF

Response Factor: 0.592524

RRF SD: 0.046422, Relative SD: 7.83462

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	190507K1_2	200	0.89	NO	41.69	1.228	5.83e5	4.98e5	198	-1.2	0.586	MM
2	190507K1_3	200	0.88	NO	41.70	1.229	6.08e5	5.10e5	201	0.6	0.596	MM
3	190507K1_4	200	0.90	NO	41.69	1.229	6.30e5	5.59e5	190	-5.0	0.563	MM
4	190507K1_5	200	0.88	NO	41.68	1.228	6.40e5	5.73e5	188	-5.8	0.558	MM
5	190507K1_6	200	0.90	NO	41.69	1.229	5.80e5	5.09e5	192	-3.8	0.570	MM
6	190507K1_7	200	0.89	NO	41.70	1.229	1.05e6	7.67e5	230	15.2	0.683	MM

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.06948

RRF SD: 0.0767834, Relative SD: 7.17951

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	190507K1_2	0.250			26.34	1.026	1.45e3	5.62e5	0.241	-3.6	1.03	bb
2	190507K1_3	10.0			26.36	1.026	6.16e4	6.00e5	9.60	-4.0	1.03	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

Last Altered: Wednesday, May 08, 2019 7:55:45 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:57:59 AM Pacific Daylight Time

Compound name: 37Cl-2,3,7,8-TCDD

Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
3 190507K1_4	0.500			26.36	1.027	3.13e3	6.32e5	0.463	-7.4	0.990	bb
4 190507K1_5	2.00			26.36	1.026	1.45e4	6.60e5	2.06	2.8	1.10	bd
5 190507K1_6	40.0			26.36	1.026	2.49e5	5.86e5	39.7	-0.6	1.06	bb
6 190507K1_7	200			26.36	1.026	1.94e6	8.04e5	226	12.9	1.21	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 4.96507e-017, Relative SD: 4.96507e-015

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 190507K1_2	100	0.79	NO	25.68	1.000	5.62e5	5.62e5	100	0.0	1.00	bb
2 190507K1_3	100	0.79	NO	25.68	1.000	6.00e5	6.00e5	100	0.0	1.00	bb
3 190507K1_4	100	0.80	NO	25.67	1.000	6.32e5	6.32e5	100	0.0	1.00	bb
4 190507K1_5	100	0.80	NO	25.68	1.000	6.60e5	6.60e5	100	0.0	1.00	bb
5 190507K1_6	100	0.80	NO	25.68	1.000	5.86e5	5.86e5	100	-0.0	1.00	bb
6 190507K1_7	100	0.77	NO	25.68	1.000	8.04e5	8.04e5	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 190507K1_2	100	0.81	NO	24.05	1.000	8.33e5	8.33e5	100	0.0	1.00	bb
2 190507K1_3	100	0.80	NO	24.05	1.000	8.73e5	8.73e5	100	0.0	1.00	bb
3 190507K1_4	100	0.79	NO	24.05	1.000	9.16e5	9.16e5	100	0.0	1.00	bb
4 190507K1_5	100	0.78	NO	24.03	1.000	9.50e5	9.50e5	100	0.0	1.00	bb
5 190507K1_6	100	0.78	NO	24.05	1.000	8.36e5	8.36e5	100	0.0	1.00	bb
6 190507K1_7	100	0.79	NO	24.05	1.000	1.17e6	1.17e6	100	0.0	1.00	bb

Dataset: U:\VG11.PRO\Results\190507K1\190507K1-CRV.qld

Last Altered: Wednesday, May 08, 2019 7:55:45 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:57:59 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	190507K1_2	100	0.53	NO	33.94	1.000	4.98e5	4.98e5	100	0.0	1.00	bd
2	190507K1_3	100	0.51	NO	33.94	1.000	5.10e5	5.10e5	100	0.0	1.00	MM
3	190507K1_4	100	0.52	NO	33.93	1.000	5.59e5	5.59e5	100	0.0	1.00	bb
4	190507K1_5	100	0.52	NO	33.93	1.000	5.73e5	5.73e5	100	0.0	1.00	bb
5	190507K1_6	100	0.52	NO	33.93	1.000	5.09e5	5.09e5	100	0.0	1.00	bb
6	190507K1_7	100	0.52	NO	33.93	1.000	7.67e5	7.67e5	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 8:06:43 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 8:06:44 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\CPSM-5-7-19.mdb 07 May 2019 13:29:19

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

#	Name	RT
1	1,3,6,8-TCDD (First)	22.43
2	1,2,8,9-TCDD (Last)	27.29
3	1,2,4,7,9-PeCDD (First)	29.01
4	1,2,3,8,9-PeCDD (Last)	31.50
5	1,2,4,6,7,9-HxCDD (First)	32.92
6	1,2,3,7,8,9-HxCDD (Last)	34.81
7	1,2,3,4,6,7,9-HpCDD (First)	37.32
8	1,2,3,4,6,7,8-HpCDD (Last)	38.32
9	1,3,6,8-TCDF (First)	20.23
10	1,2,8,9-TCDF (Last)	27.46
11	1,3,4,6,8-PeCDF (First)	27.36
12	1,2,3,8,9-PeCDF (Last)	31.76
13	1,2,3,4,6,8-HxCDF (First)	32.39
14	1,2,3,7,8,9-HxCDF (Last)	35.19
15	1,2,3,4,6,7,8-HpCDF (First)	36.94
16	1,2,3,4,7,8,9-HpCDF (Last)	38.87

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 8:00:20 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 8:00:34 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\1613_rrt-5-7-19.mdb 07 May 2019 12:51:47

Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

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

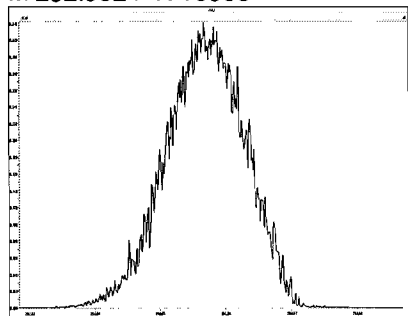
	Name	ID	Acq Date	Acq Time
1	190507K1_1 ^(A)	ST190507K1_1 1613 CS3 18J1008	07-May-19	10:05:54
2	190507K1_2	ST190507K1_2 1613 CS0 19C2201	07-May-19	11:18:22
3	190507K1_3	ST190507K1_3 1613 CS3 19C2204	07-May-19	12:16:36
4	190507K1_4	ST190507K1_4 1613 CS1 19C2202	07-May-19	13:04:59
5	190507K1_5	ST190507K1_5 1613 CS2 19C2203	07-May-19	13:51:47
6	190507K1_6	ST190507K1_6 1613 CS4 19C2205	07-May-19	14:39:24
7	190507K1_7	ST190507K1_7 1613 CS5 19C2206	07-May-19	15:27:02
8	190507K1_8	SS190507K1_1 1613 SSS 19C2207	07-May-19	16:16:59
9	190507K1_9	SOLVENT BLANK	07-May-19	17:12:35
10	190507K1_10	QC190507K1-1 1613 Method Blank 1	07-May-19	18:00:01
11	190507K2_1	ST190507K2_1 1613 CS3 18J1008	07-May-19	18:48:10

^(A) not used, used to get windows
in new column 11-5-8-19

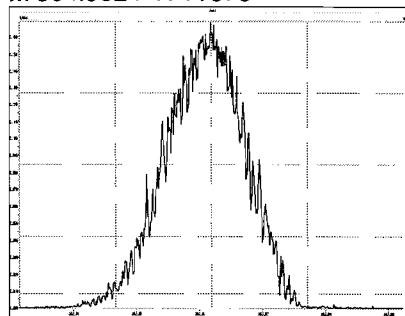
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:13:04 Pacific Daylight Time

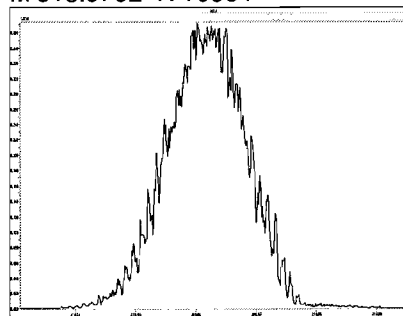
M 292.9824 R 10968



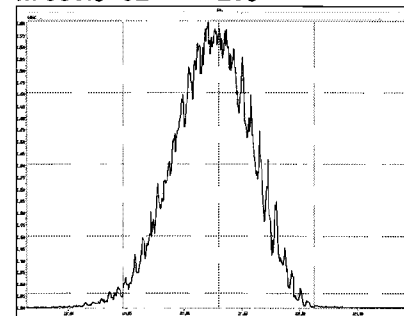
M 304.9824 R 11575



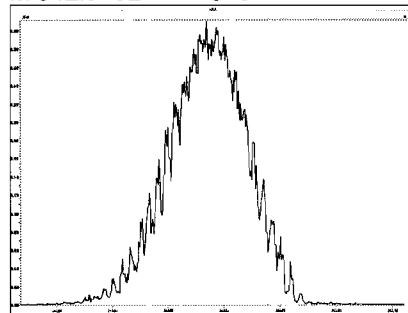
M 318.9792 R 10964



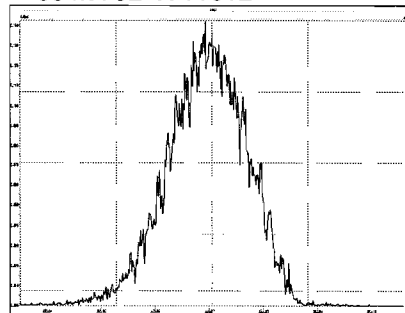
M 330.9792 R 11209



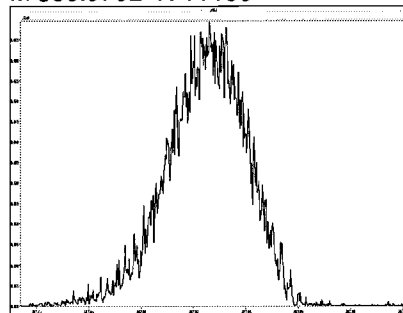
M 342.9792 R 11570



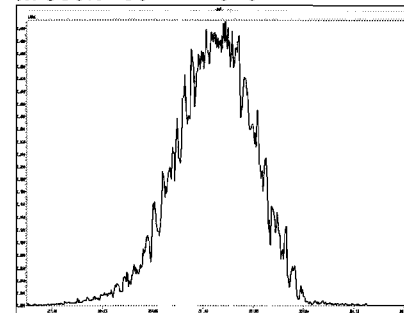
M 354.9792 R 11312



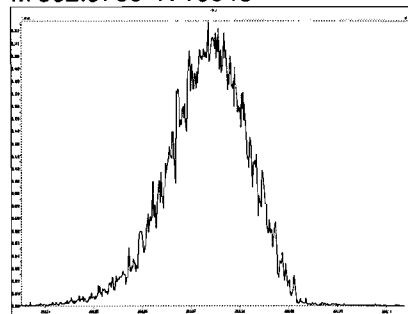
M 366.9792 R 11159



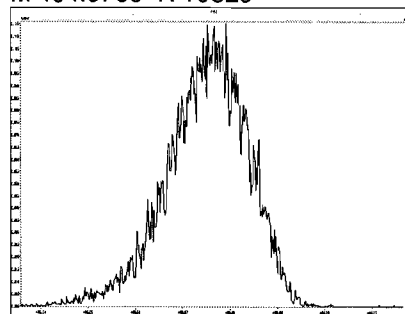
M 380.9760 R 11010



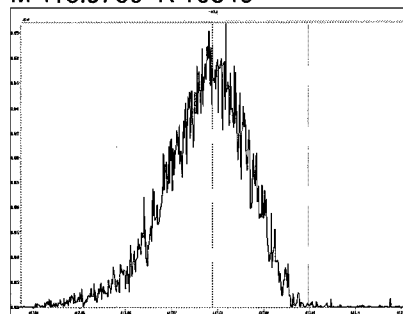
M 392.9760 R 10548



M 404.9760 R 10329



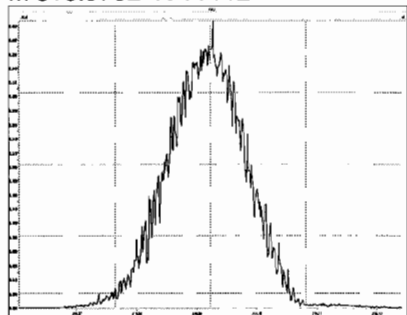
M 416.9760 R 10546



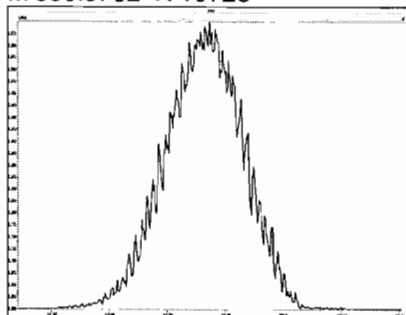
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:13:43 Pacific Daylight Time

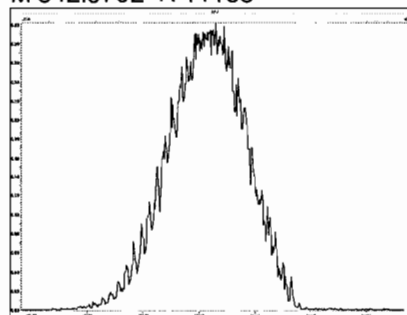
M 318.9792 R 11112



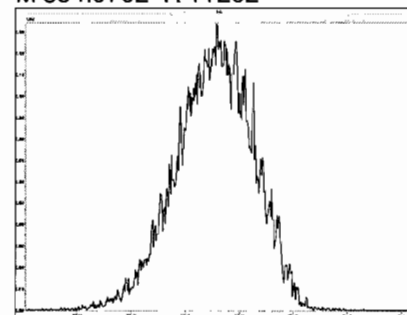
M 330.9792 R 10728



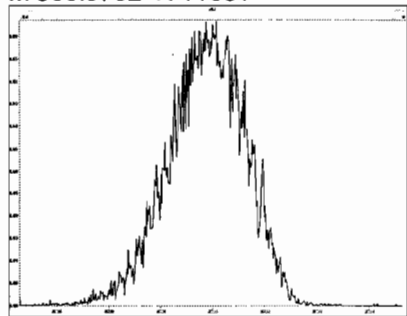
M 342.9792 R 11158



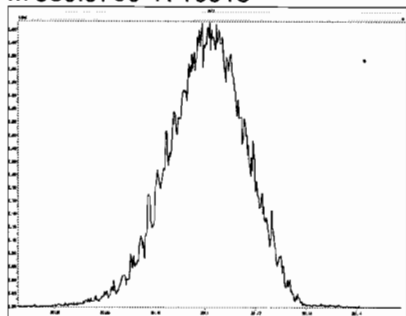
M 354.9792 R 11262



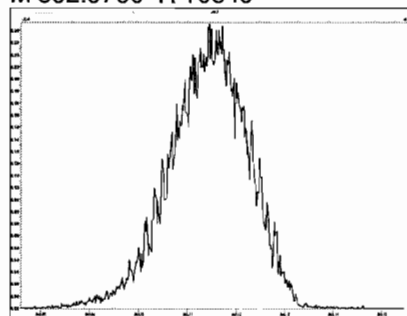
M 366.9792 R 11681



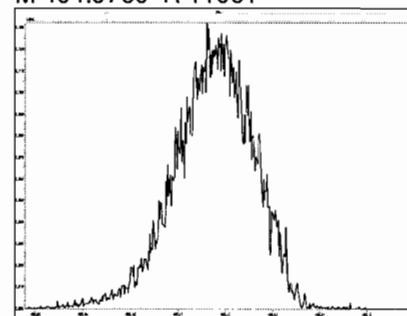
M 380.9760 R 10915



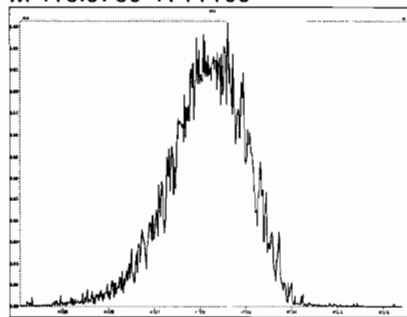
M 392.9760 R 10549



M 404.9760 R 11061



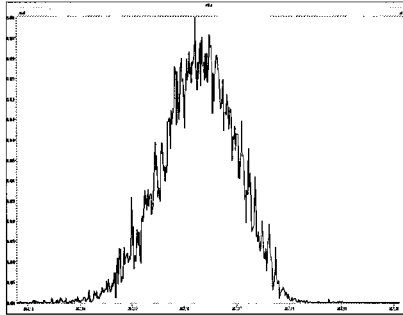
M 416.9760 R 11109



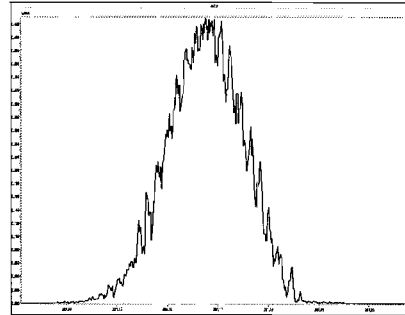
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, May 07, 2019 11:14:13 Pacific Daylight Time

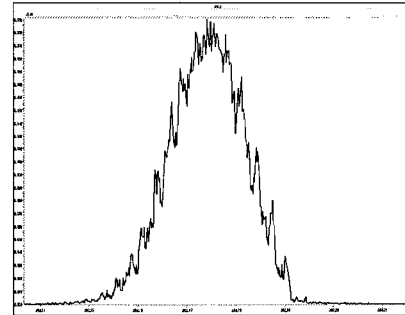
M 366.9792 R 12256



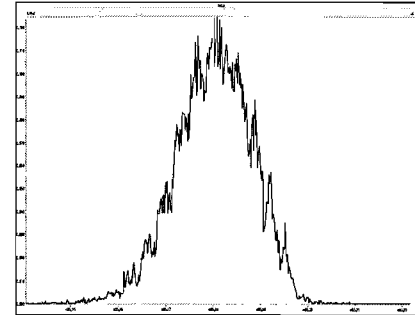
M 380.9760 R 11312



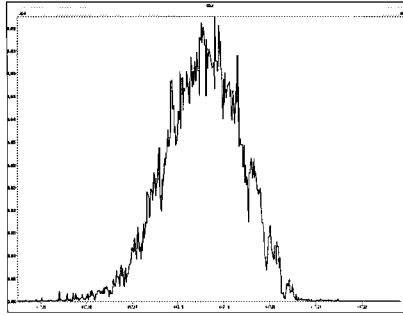
M 392.9760 R 10963



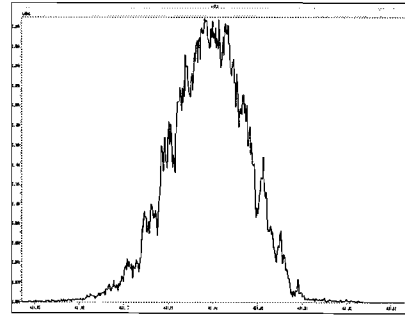
M 404.9760 R 11158



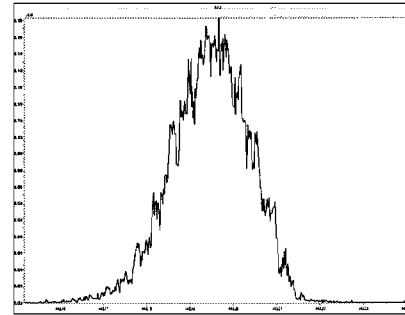
M 416.9760 R 11312



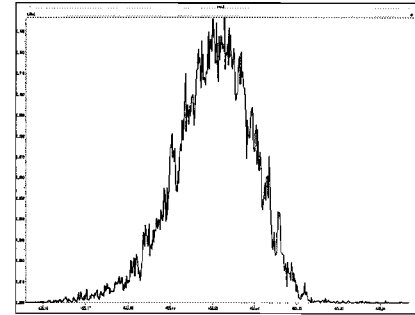
M 430.9728 R 11210



M 442.9728 R 11060



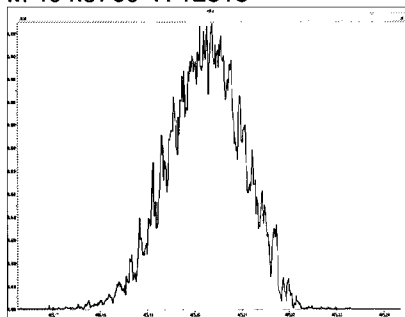
M 454.9728 R 11309



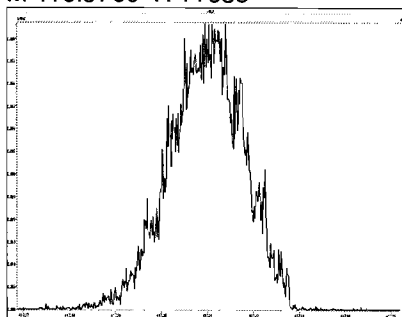
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Printed: Tuesday, May 07, 2019 11:14:57 Pacific Daylight Time

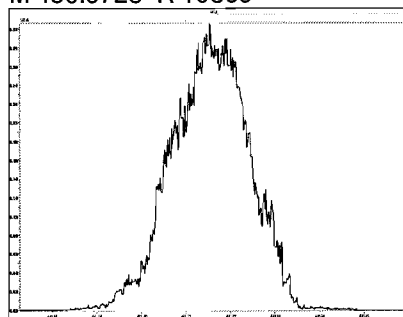
M 404.9760 R 12313



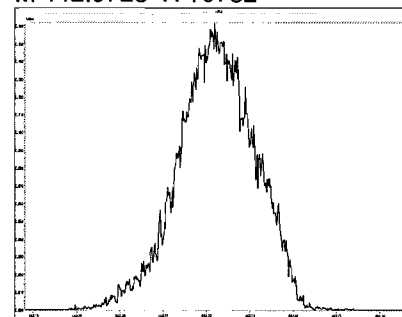
M 416.9760 R 11683



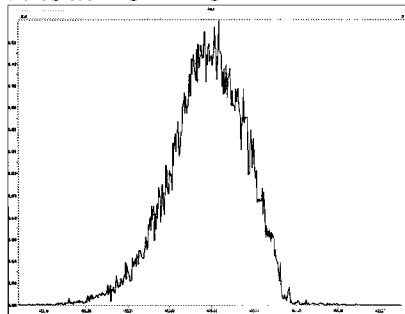
M 430.9728 R 10869



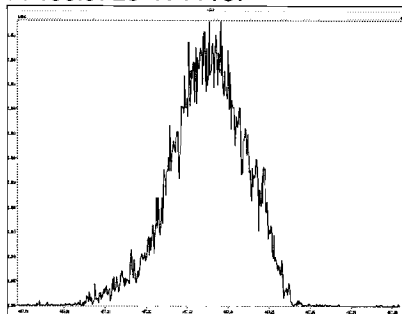
M 442.9728 R 10732



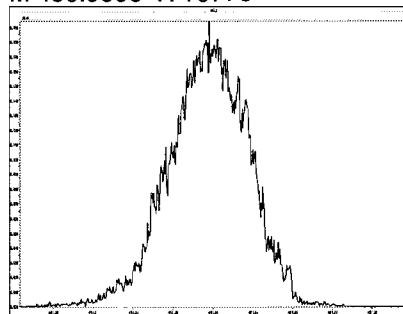
M 454.9728 R 11522



M 466.9728 R 11157



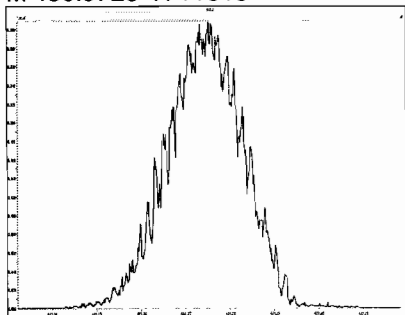
M 480.9696 R 10778



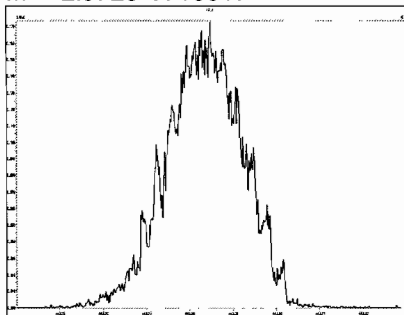
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Printed: Tuesday, May 07, 2019 11:15:30 Pacific Daylight Time

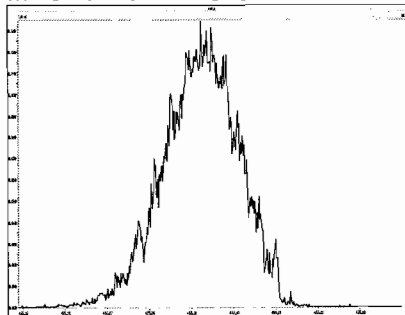
M 430.9728 R 11313



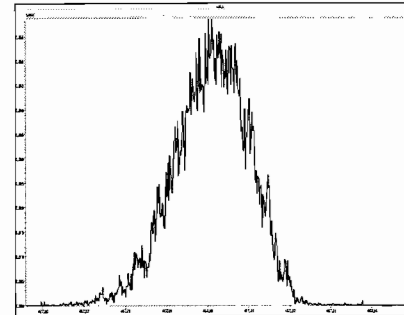
M 442.9728 R 10917



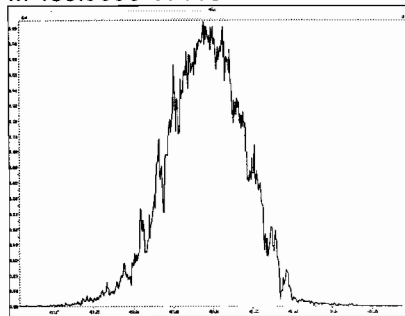
M 454.9728 R 11573



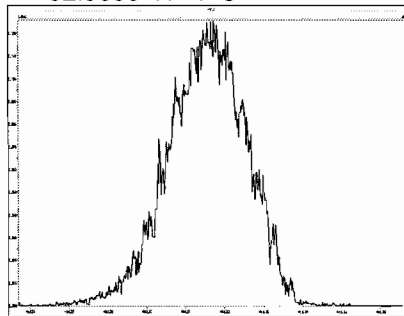
M 466.9728 R 11575



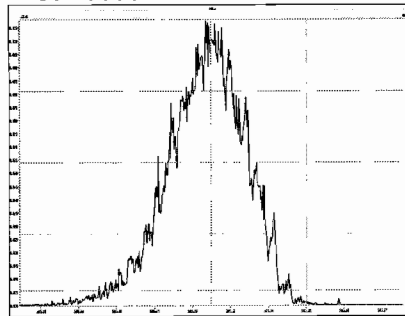
M 480.9696 R 11521



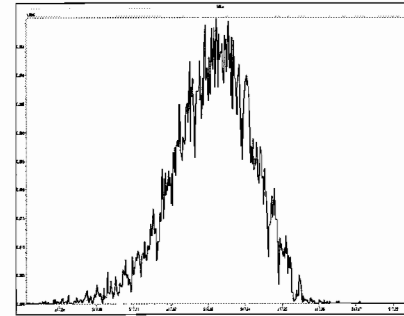
M 492.9696 R 11737



M 504.9696 R 11311



M 516.9697 R 11963



Dataset: Untitled

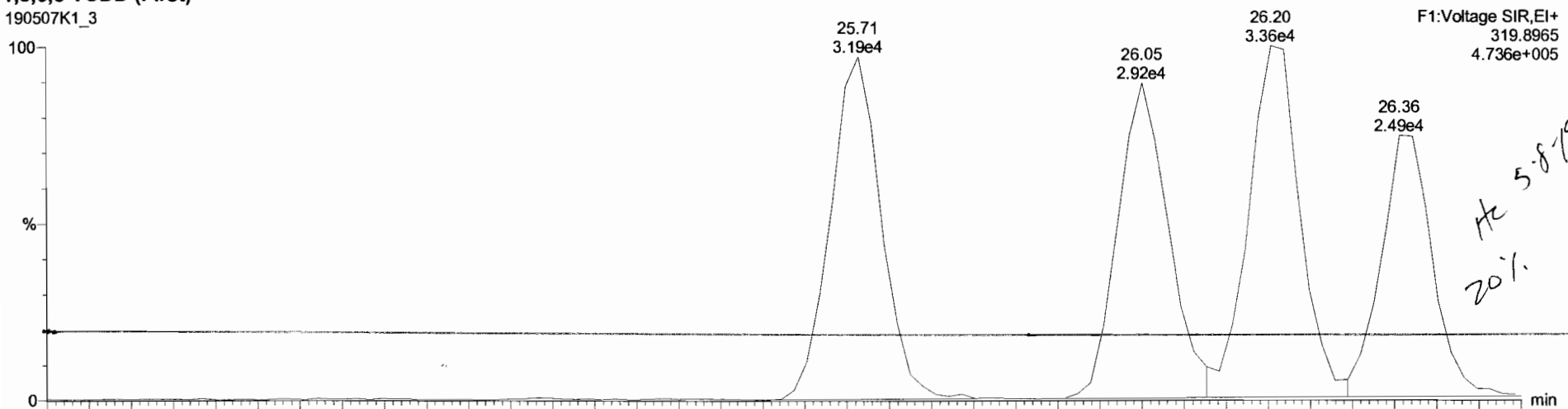
Last Altered: Wednesday, May 08, 2019 8:06:43 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 8:06:44 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\CPSM-5-7-19.mdb 07 May 2019 13:29:19
Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

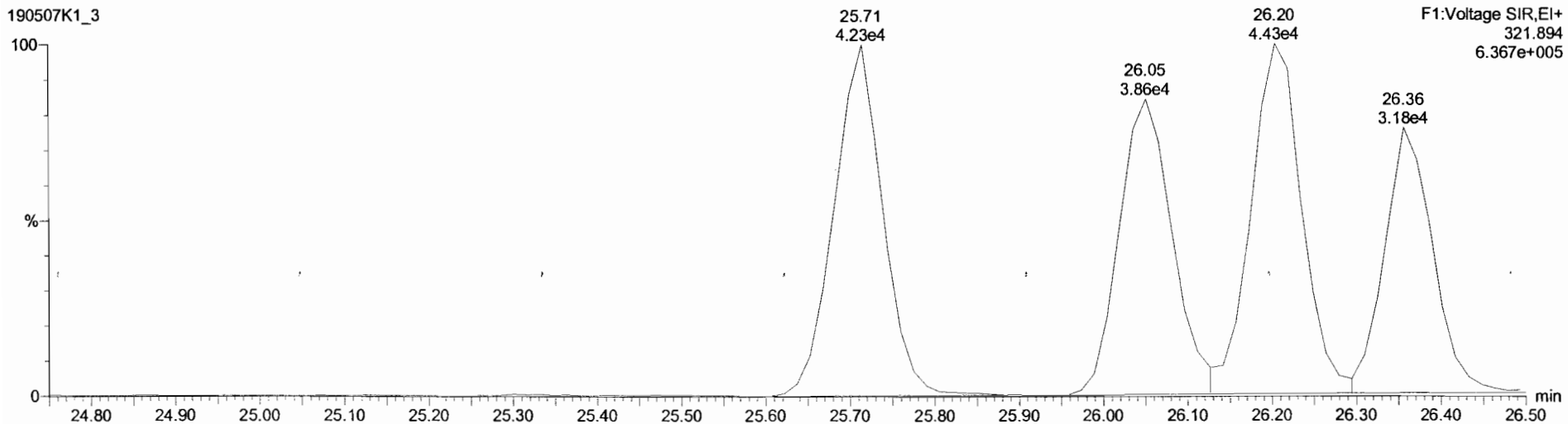
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1,3,6,8-TCDD (First)

190507K1_3



190507K1_3



Dataset: Untitled

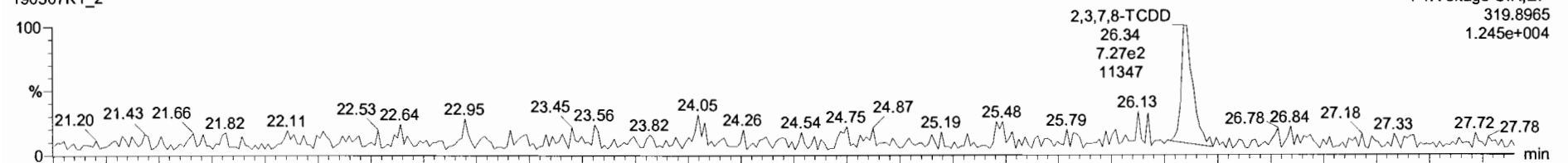
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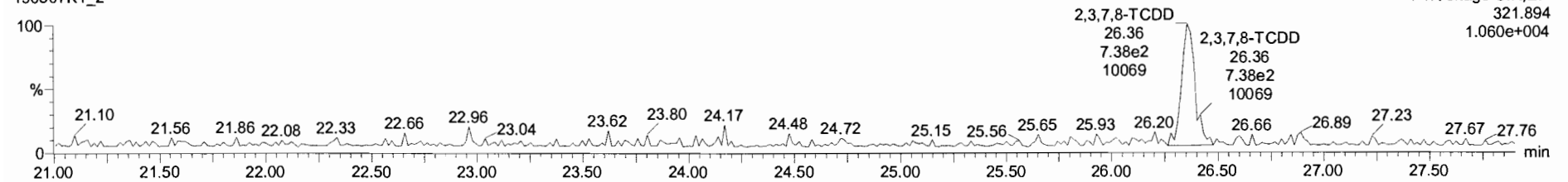
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2,3,7,8-TCDD

190507K1_2

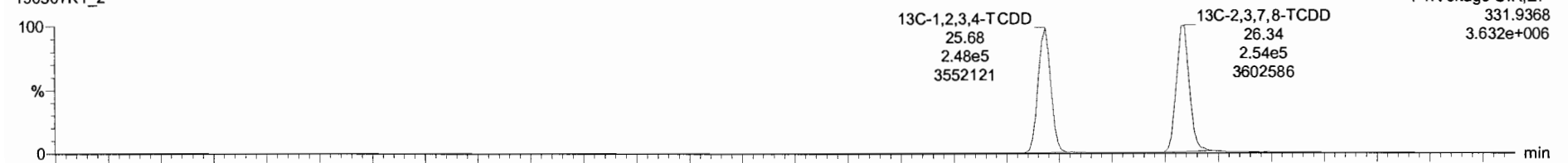


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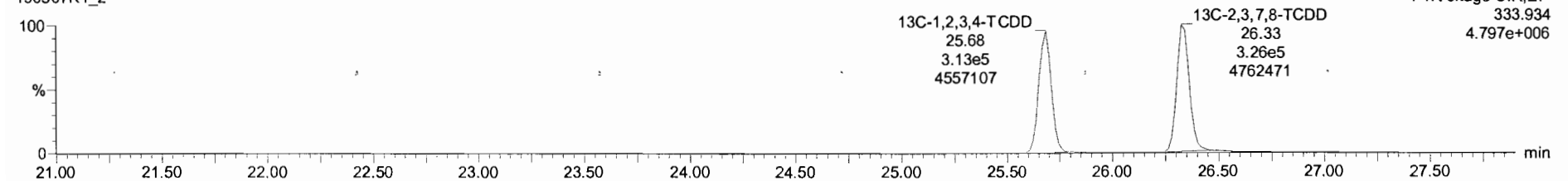


13C-2,3,7,8-TCDD

190507K1_2

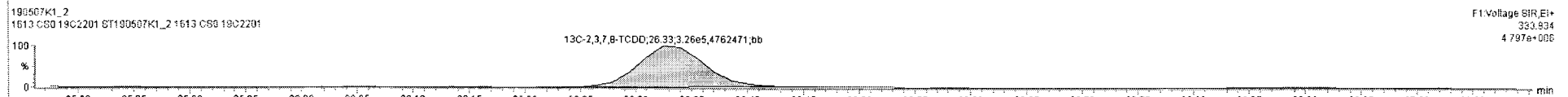
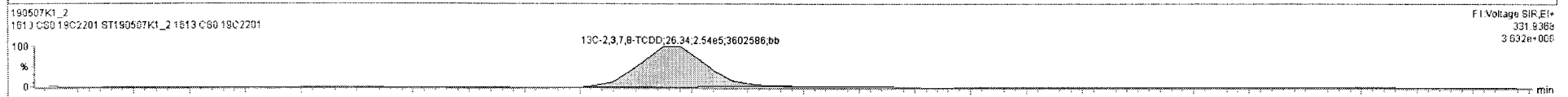
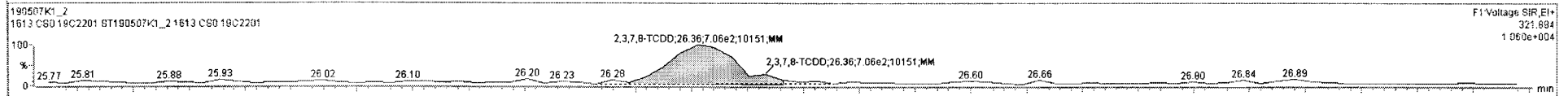
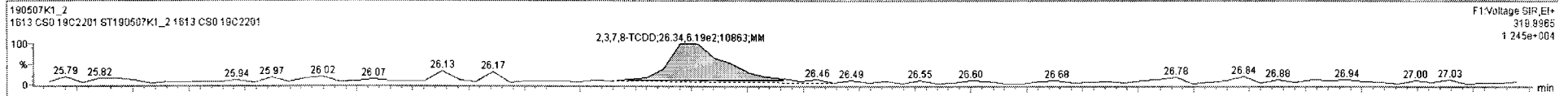


190507K1_2



190507k1_2 - ST190507K1_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Peak	Name	Resp	RA	nY	RRF	WtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.33e3	0.86	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.68e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.000	2.32	92.6	0.123	2.31
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.67	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.69e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.36	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.23	1.000	38.86	1.000	1.23	98.5	0.129	1.23
17	OCDF	1.18e4	0.86	NO	1.10	1.000	41.69	1.000	3.48	199	0.191	3.48
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.27	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	



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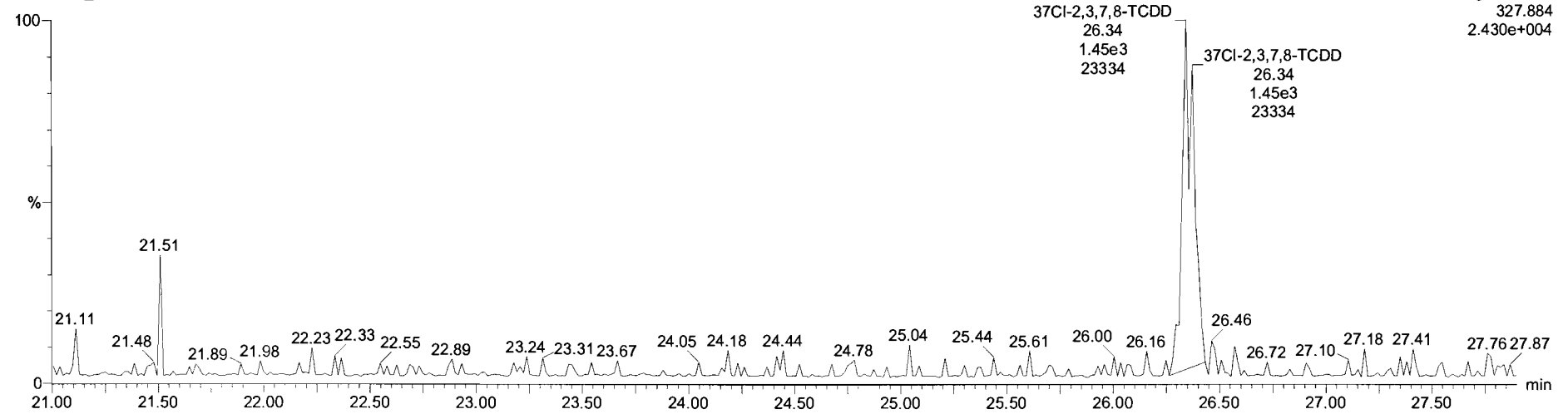
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

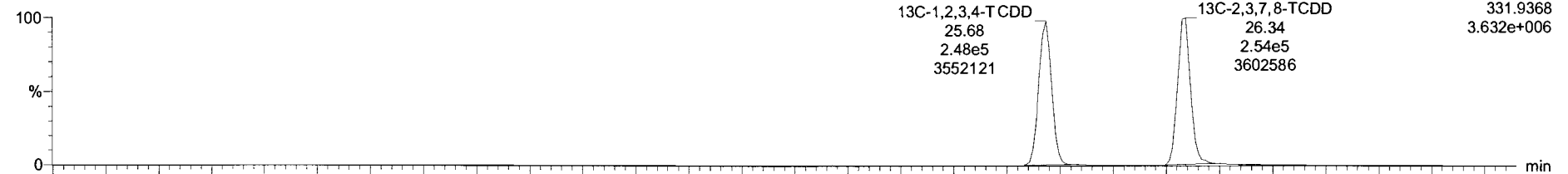
37Cl-2,3,7,8-TCDD

190507K1_2

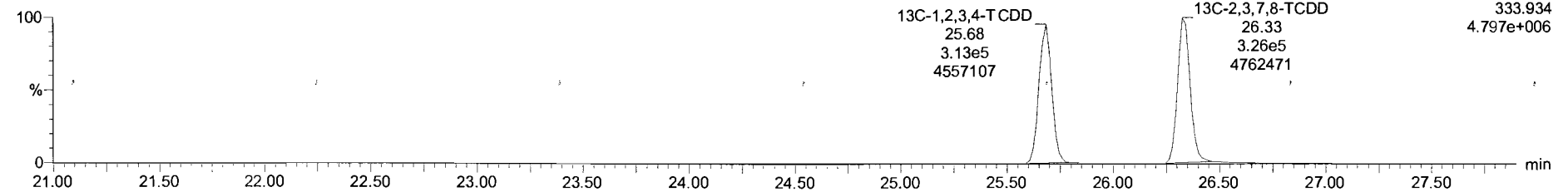


13C-1,2,3,4-TCDD

190507K1_2



190507K1_2



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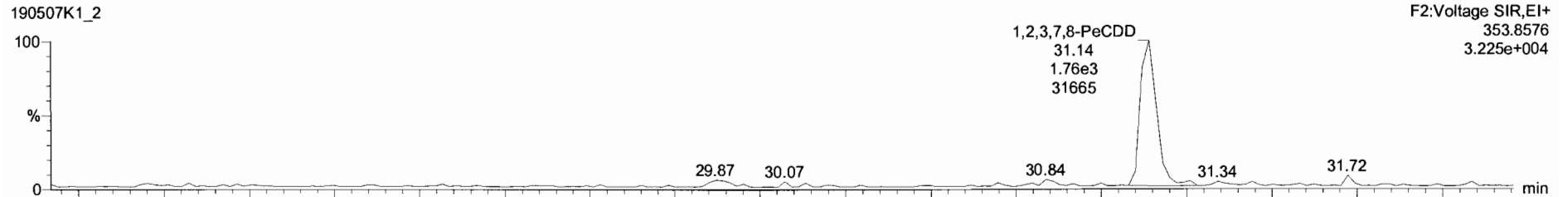
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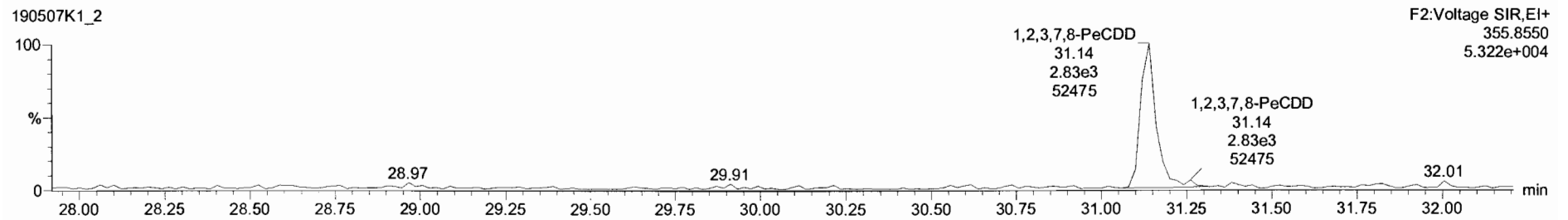
Name: 190507K1_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

1,2,3,7,8-PeCDD

190507K1_2

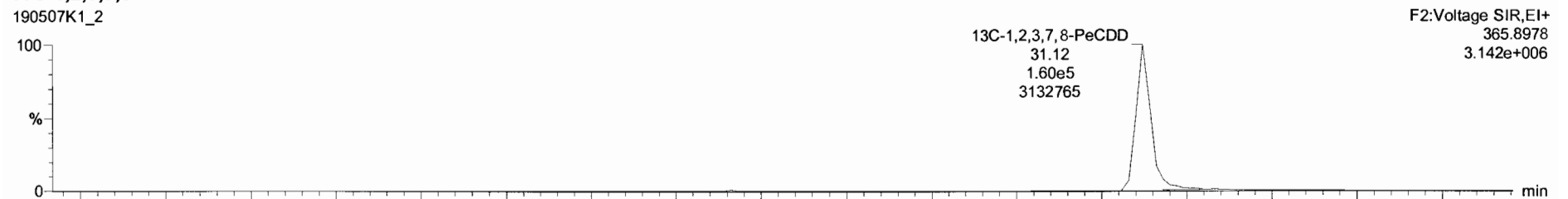


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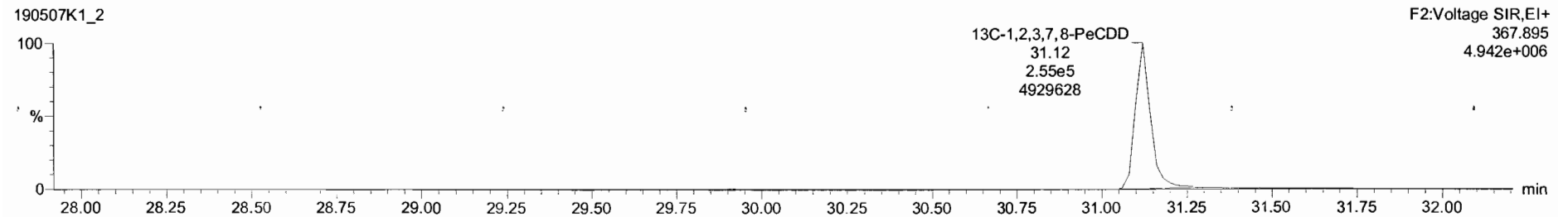


13C-1,2,3,7,8-PeCDD

190507K1_2



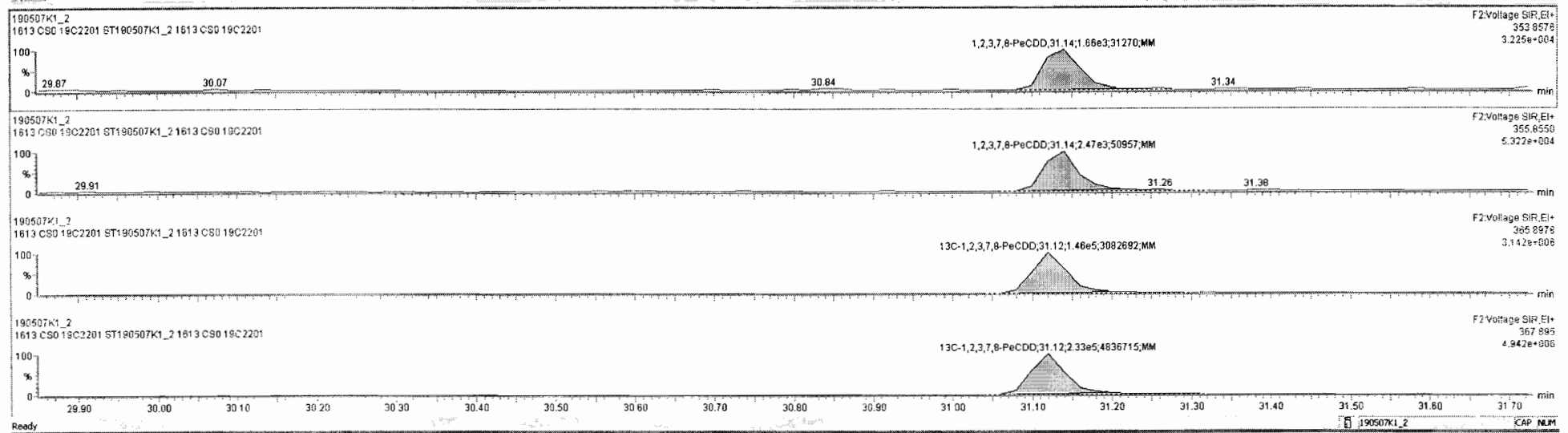
190507K1_2



Target1.ymx - 190507K1_CRY.qld - [Chromatogram]

190507K1_2 - ST190507K1_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	n/y	RF	Wt%	RT	RRT	Conc.	%Rec	DJ	EMPC
29	13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	0.470	
30	13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	0.541	
31	13C-1,2,3,7,8-HxCDF	3.43e5	0.52	NO	0.73	1.000	35.17	1.036	94.0	0.658	
32	13C-1,2,3,4,6,7,8-HpCDF	3.64e5	0.47	NO	0.75	1.000	36.90	1.067	96.9	0.489	
33	13C-1,2,3,4,7,8-HpCDF	2.85e5	0.46	NO	0.55	1.000	38.85	1.145	104	0.669	
34	13C-OCDF	6.04e5	0.89	NO	0.60	1.000	41.69	1.228	204	0.519	
35	37Cl-2,3,7,8-TCDD	1.45e3			1.07	1.000	26.34	1.026	0.241	0.0328	
36	13C-1,2,3,4-TCDD	5.62e5	0.79	NO	1.00	1.000	25.68	1.000	100	0.230	
37	13C-1,2,3,4-TCDF	8.33e5	0.81	NO	1.00	1.000	24.05	1.000	100	0.408	
38	13C-1,2,3,4,6,8-HxCDF	4.98e5	0.53	NO	1.00	1.000	33.94	1.000	100	0.483	
39	Total Tetra-Dioxins				0.92	1.000		0.247		0.247	
40	Total Penta-Dioxins				0.90	1.000		1.20		0.640	1.20
41	Total Hexa-Dioxins				0.97	1.000		3.72		0.0506	3.72
42	Total Hepta-Dioxins				1.03	1.000		1.24		0.0752	1.24
43	Total Tetra-Furans				0.94	1.000		0.245		0.0508	0.245
44	1st Func. Penta-Furans				0.98	1.000				0.0230	
45	Total Penta-Furans				0.98	1.000		2.32		0.0806	2.32
46	Total Hexa-Furans				1.18	1.000		4.44		0.0766	4.44
47	Total Hepta-Furans				1.13	1.000		2.41		0.126	2.41
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										



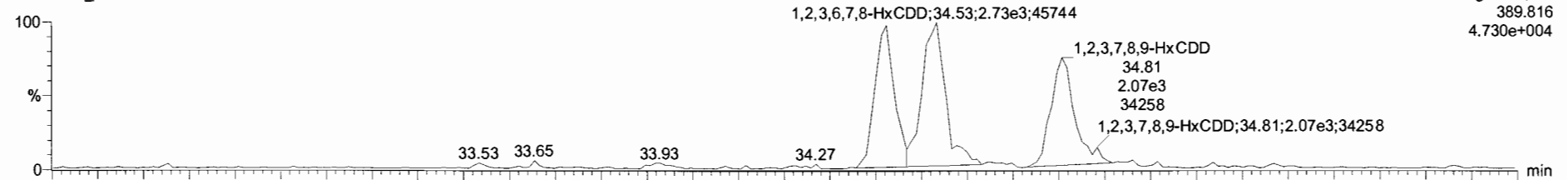
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

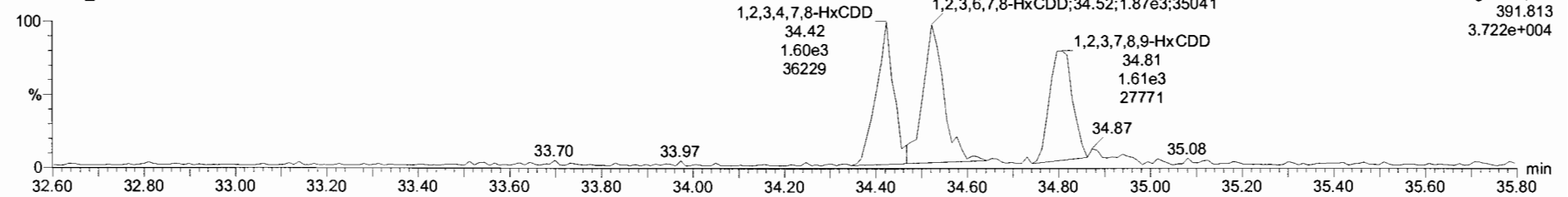
Name: 190507K1_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

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

190507K1_2

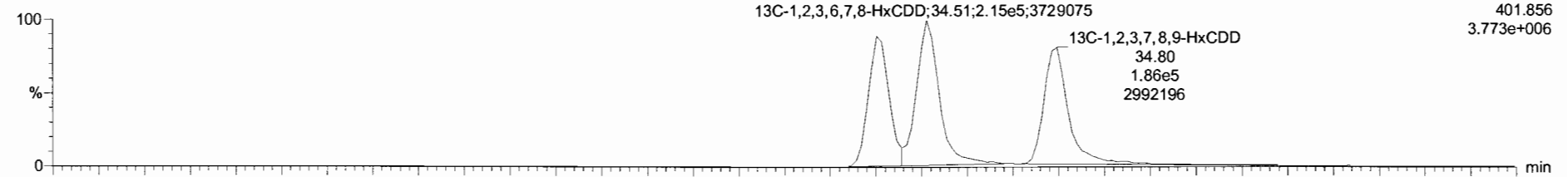


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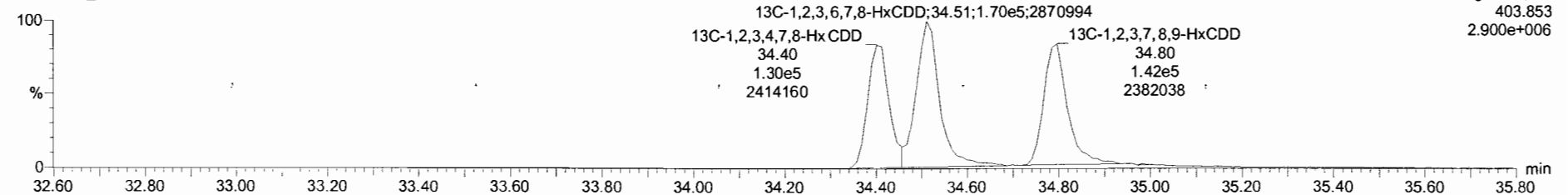


13C-1,2,3,4,7,8-HxCDD

190507K1_2



190507K1_2

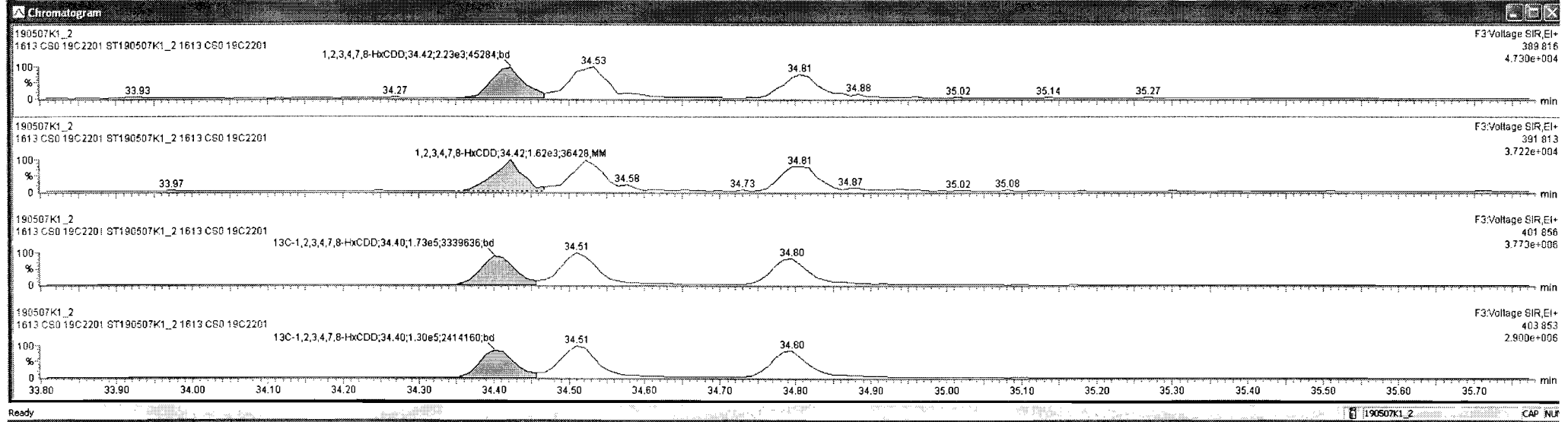


TargetLynx - 190507K1.CRV.qld

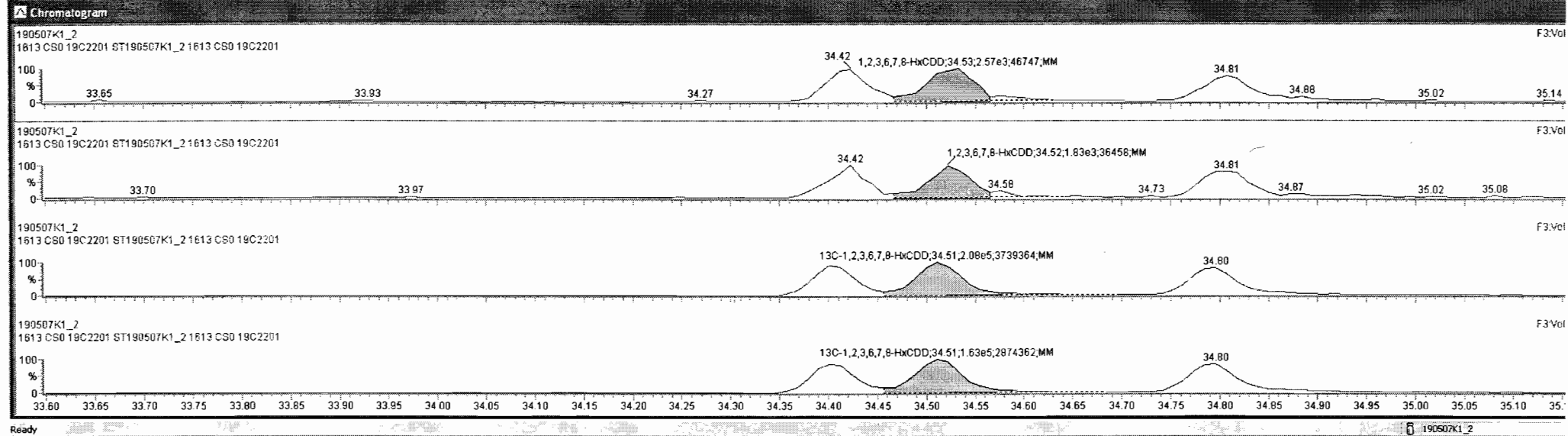
File Edit View Display Processing Window Help

190507K1_2 - ST190507K1_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	nA	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2 1,2,3,7,8-PeCDD	4.19e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3 1,2,3,4,7,8-HxCDD	3.65e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0483	1.19
4 1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5 1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6 1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.66	1.000	1.37	109	0.127	1.37
17 OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.85	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	



Name	Resp	RA	nY	RRF	wtWtd	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2 1,2,3,7,8-PeCDD	4.13e3	0.87	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3 1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4 1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0468	1.23
5 1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6 1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.69e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	8.12e3	1.35	NO	1.09	1.000	33.87	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.37	109	0.127	1.37
17 OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	96.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.85	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.86	1.000	34.80	1.025	87.9	87.9	0.598	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	

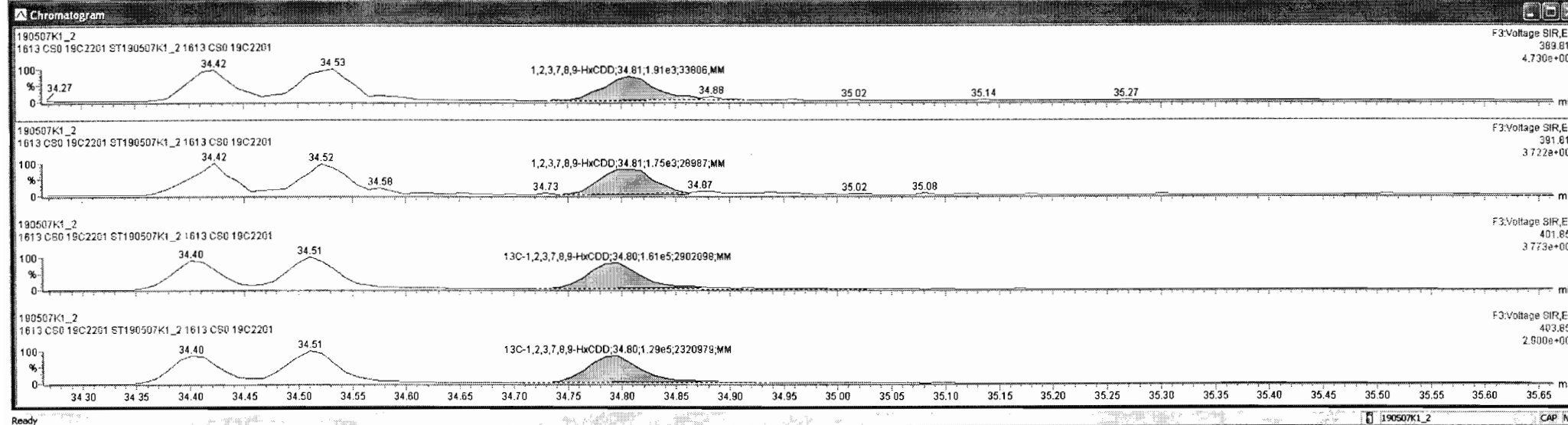


Target: lnx - 190507K1_CRV.qld

File Edit View Display Processing Window Help

190507K1_2 - ST190507K1_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	rvy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2 1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3 1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4 1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5 1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6 1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	36.32	1.001	1.24	99.2	0.0752	1.24
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8 2,3,7,8-TCDF	1.85e3	0.91	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0598	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.66e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.16	94.1	0.115	1.16
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.37	109	0.127	1.37
17 OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	36.30	1.128	93.6	93.6	0.470	



Dataset: Untitled

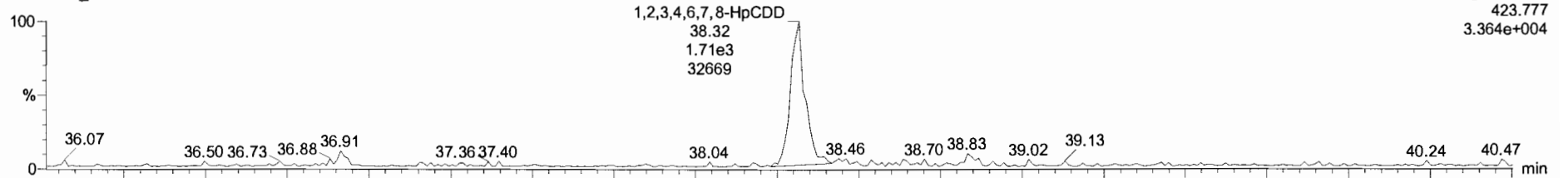
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

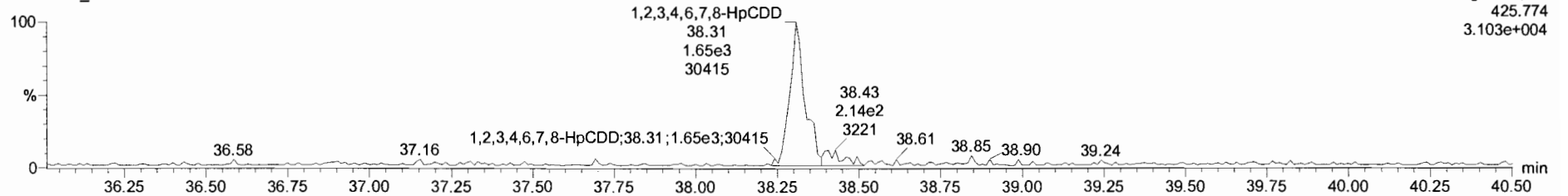
Name: 190507K1_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

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

190507K1_2

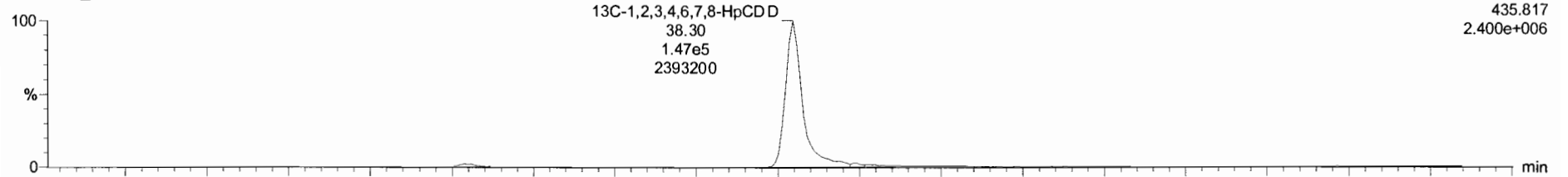


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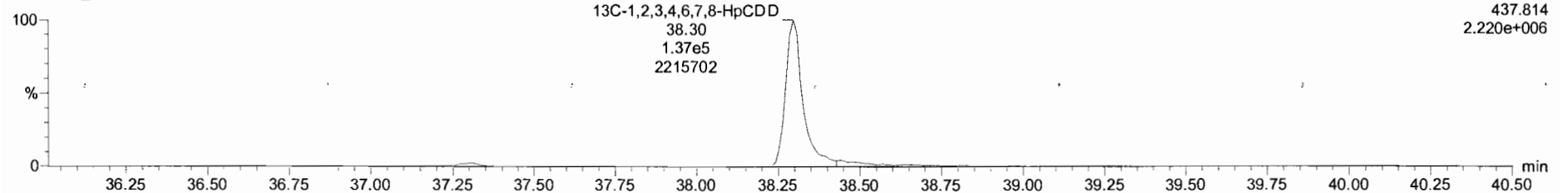


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190507K1_2



190507K1_2

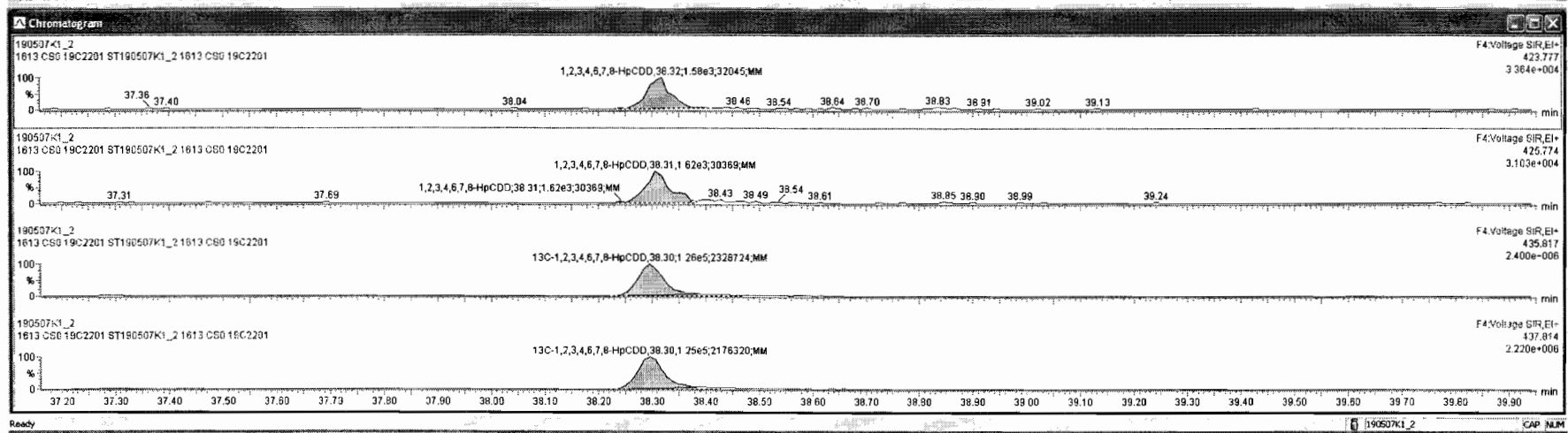


Target:lynx - 190507K1.CHV.qld

File Edit View Display Processing Window Help

190507K1_2 - ST190507K1_2 1613 CS0 19C2201 - 1613 CS0 19C2201

#	Name	Resp	RA	NY	RRF	WtVol	RT	RTI	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.88	1.000	1.37	109	0.127	1.37
17	OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	136	0.191	3.49
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	

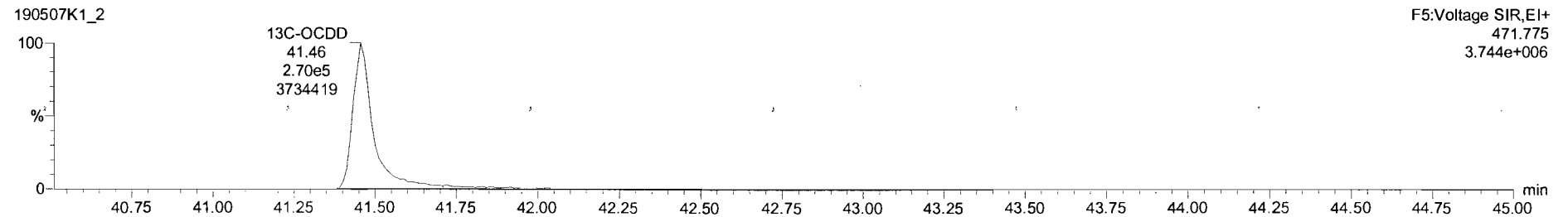
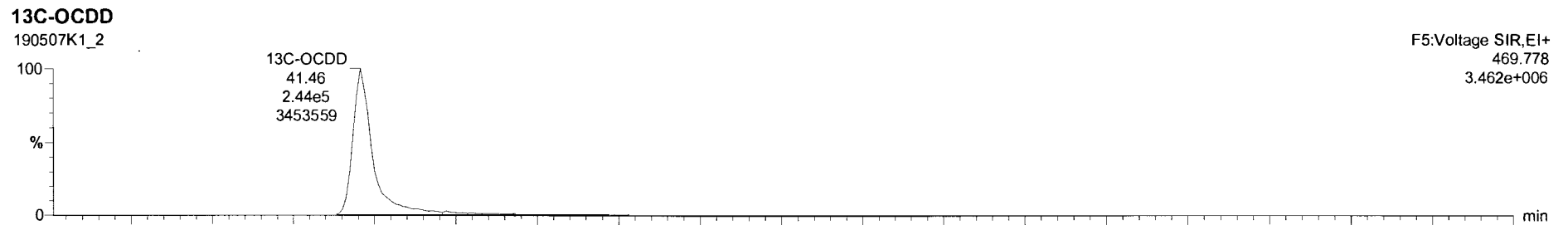
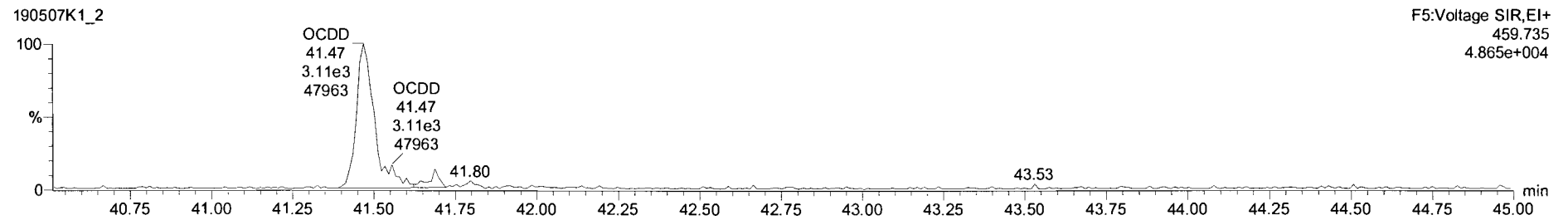
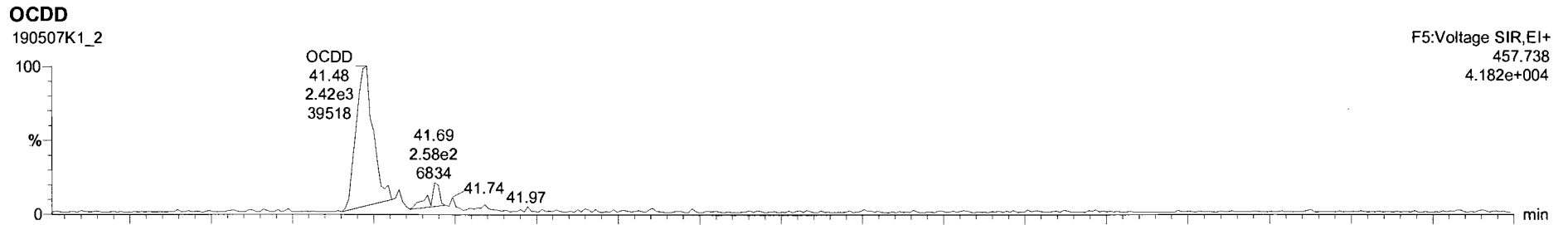


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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

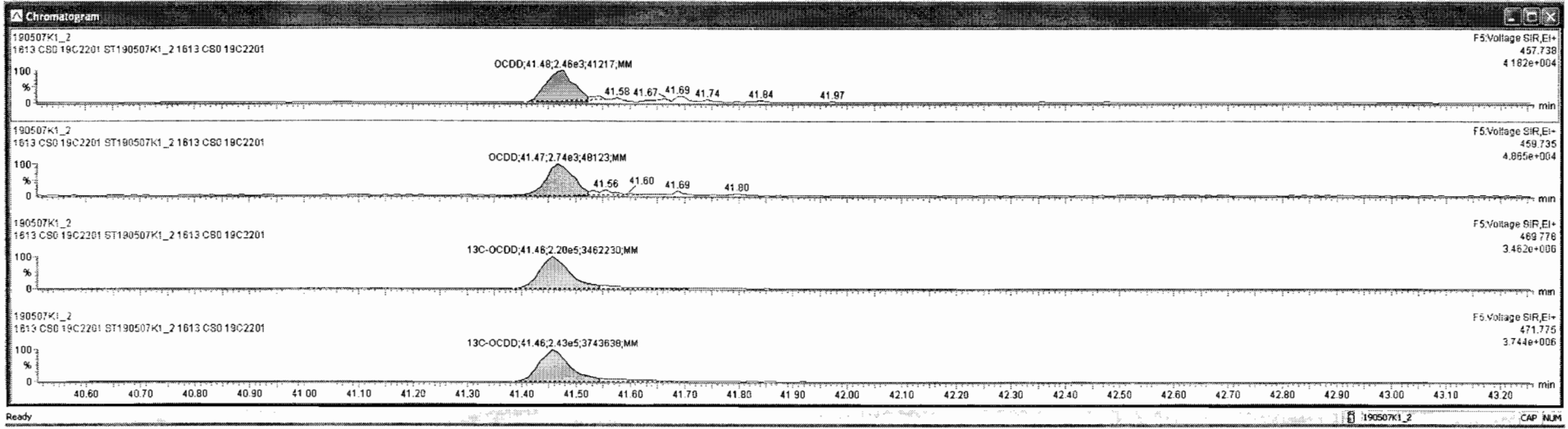
Name: 190507K1_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201



Target: ynx - 190507K1-CRY.qld

190507K1_2 - ST190507K1_2 1613 C80 19C2201 - 1613 C80 19C2201

Name	Resp	RA	Inj	RRF	wt/nd	RT	RR1	Conc.	%Rec	DL	EffC
1 2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2 1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3 1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4 1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5 1,2,3,7,8,9-HxCDD	3.86e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6 1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.88e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.37	109	0.127	1.37
17 OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.8	87.8	0.558	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	

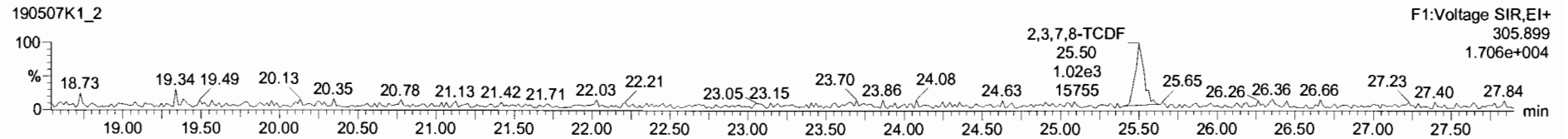
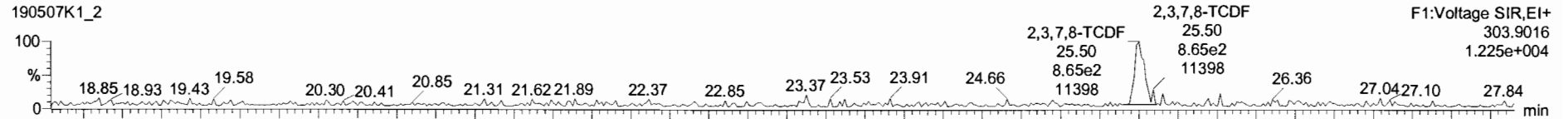


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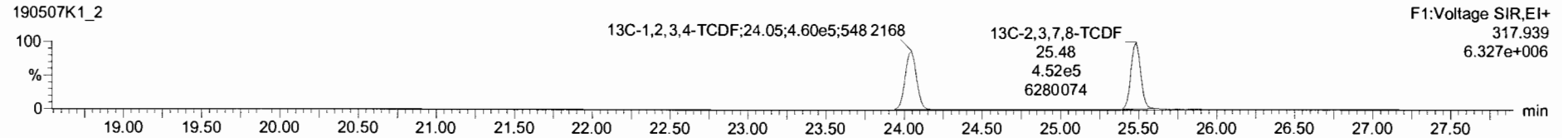
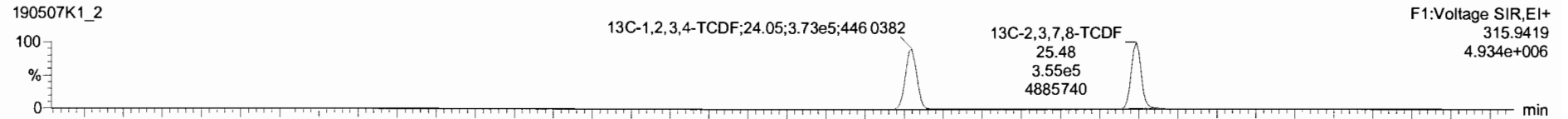
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

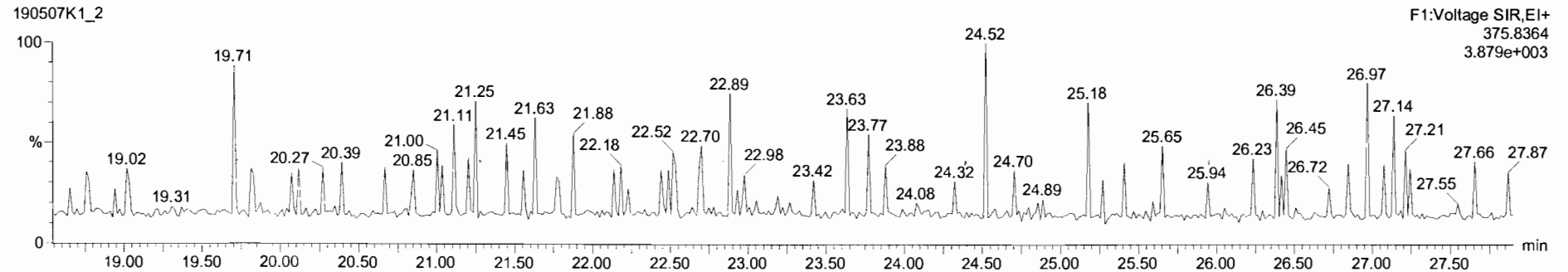
2,3,7,8-TCDF



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



DPE1

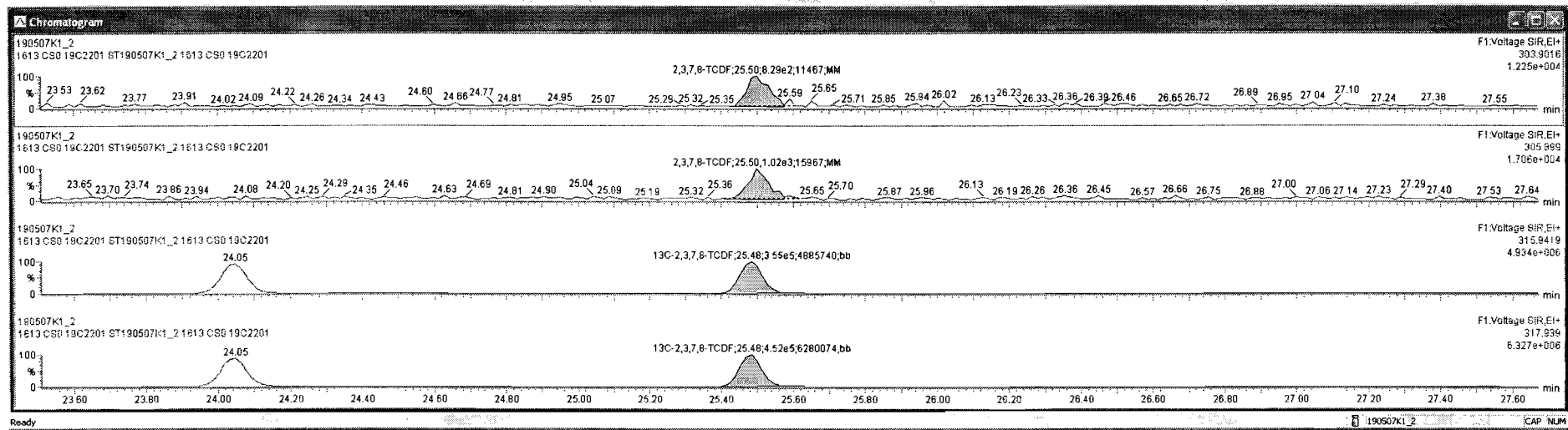


TargetLynx 190507K1_CRY.gld

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190507K1_2-ST190507K1_2 1613 CS0 19C2201 - 1613 CS0 19C2201

None	Resp	RA	riy	RRF	WtVol	RT	RRT	Conc	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	1.33e3	0.86	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.95e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.8	0.0306	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.88	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	1.89	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.8	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.37	109	0.127	1.37
17	OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	80.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	85.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	



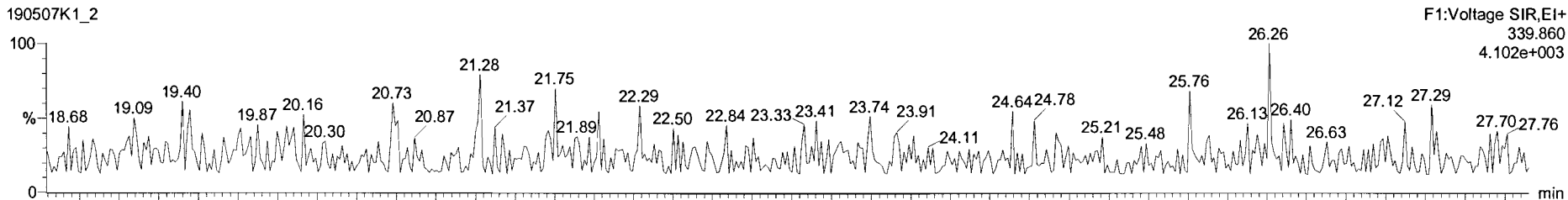
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

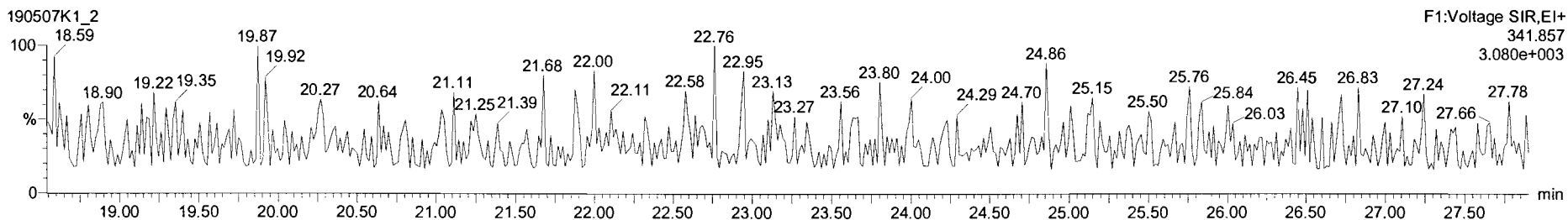
Name: 190507K1_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

1st Func. Penta-Furans

190507K1_2

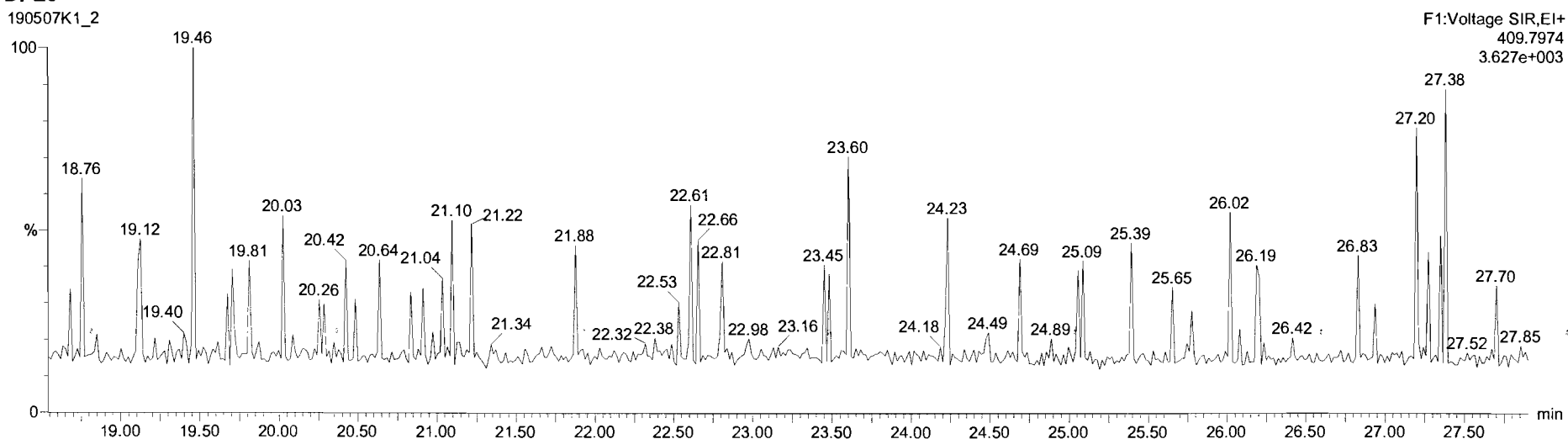


190507K1_2



DPE6

190507K1_2

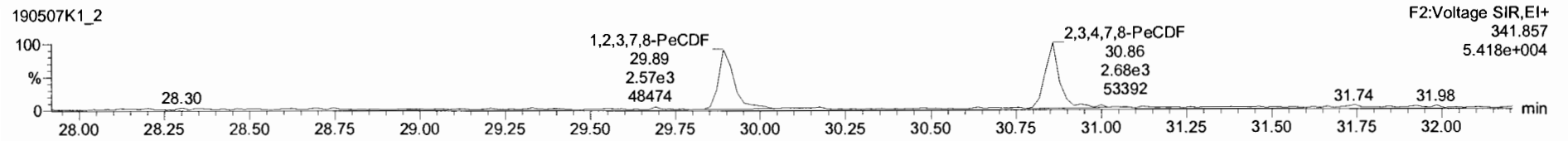
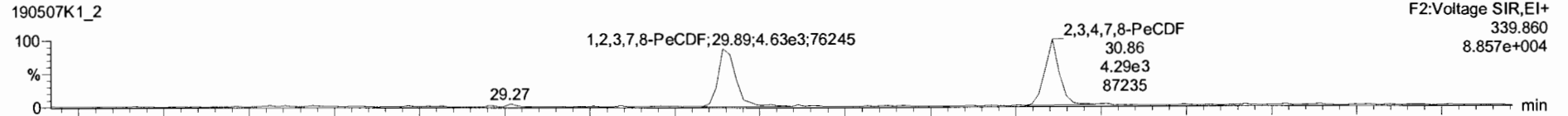


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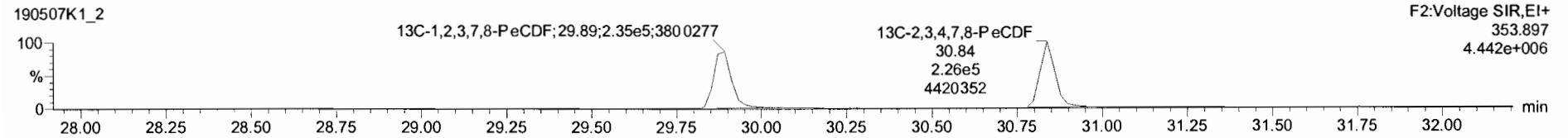
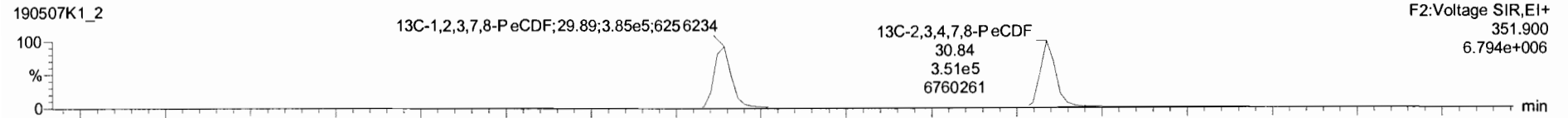
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Name: 190507K1_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

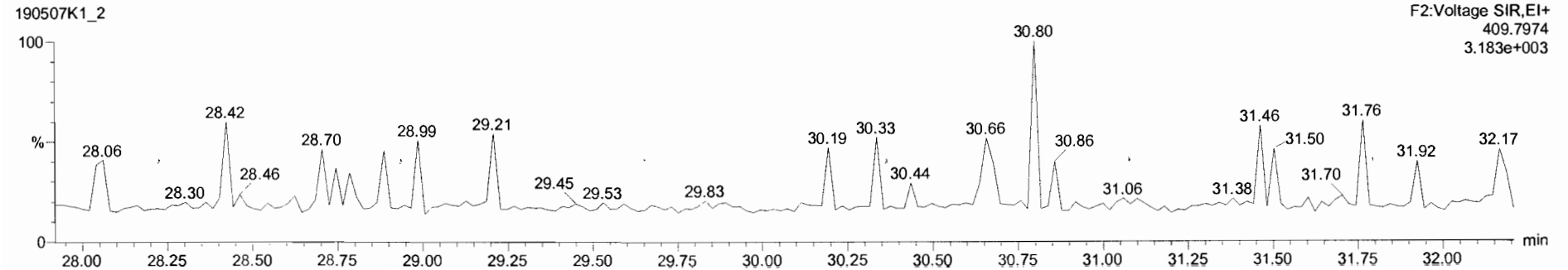
1,2,3,7,8-PeCDF



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



DPE2

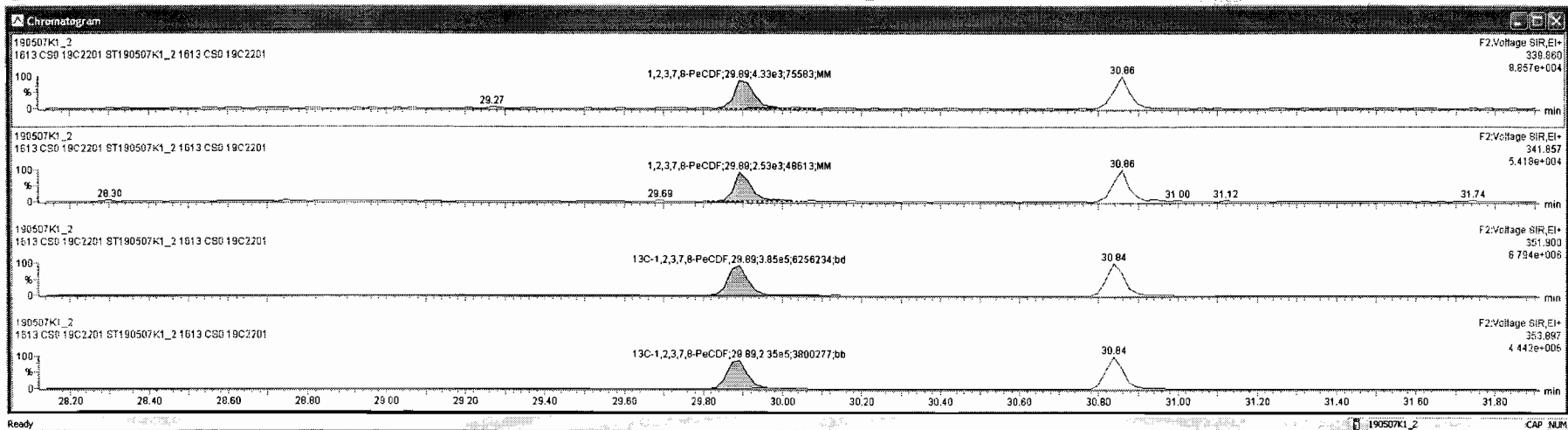


Target1.ymx - 190507K1.CHV.qld

File Edit View Display Processing Window Help

190507K1_2 - ST190507K1_2.1613.CS0.19C2201 - 1613.CS0.19C2201

1	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.87	1.000	34.53	1.001	1.23	96.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.98	1.000	34.81	1.000	1.29	103	0.0567	1.29
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.04	1.000	38.32	1.001	1.23	98.1	0.0744	1.23
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.91	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	6.85e3	1.71	NO	0.98	1.000	29.89	1.000	1.13	90.7	0.0637	1.13
10	2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.10	1.000	33.67	1.000	1.14	91.2	0.0713	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.18	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.18	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HxCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.36	109	0.127	1.36
17	OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.478	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	89.4	89.4	0.561	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.53	1.000	38.30	1.128	94.8	94.8	0.475	

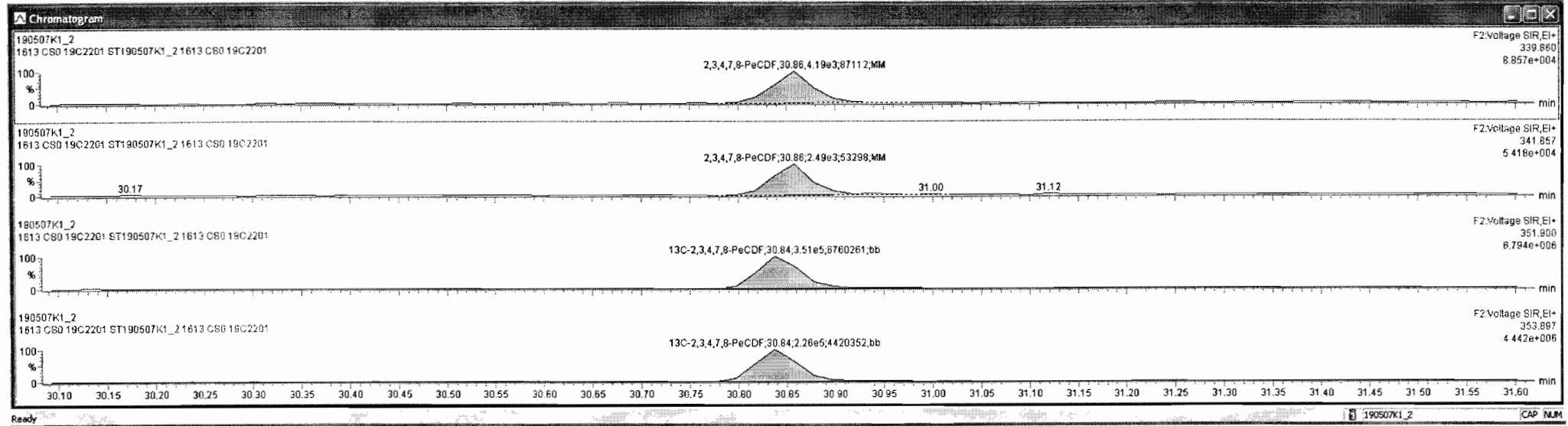


TargetLynx - 190507K1_CRV.qld

File Edit View Display Processing Window Help

190507K1_2 - ST190507K1_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	RIY	RRF	wtVol	R1	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.33e3	0.88	NO	0.52	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2 1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	96.3	0.0640	1.20
3 1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4 1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5 1,2,3,7,8,9-HxCDD	3.66e3	1.09	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6 1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	6.79e3	1.92	YES	0.97	1.000	29.89	1.000	1.12	89.9	0.0638	0.981
10 2,3,4,7,8-PeCDF	6.68e3	1.89	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.28	1.000	38.86	1.000	1.37	109	0.127	1.37
17 OCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.478	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.86	1.000	34.80	1.025	87.9	87.9	0.558	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	



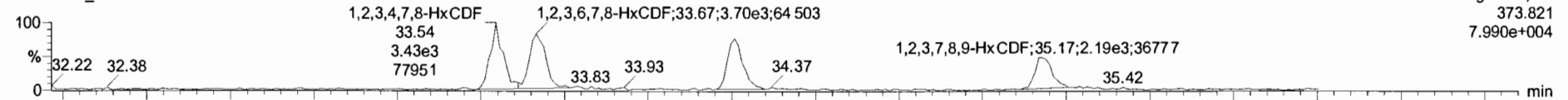
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

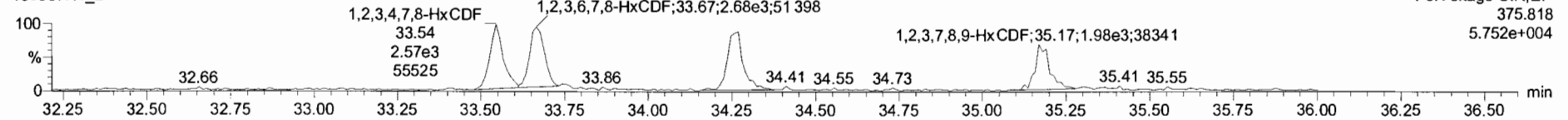
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1,2,3,4,7,8-HxCDF

190507K1_2

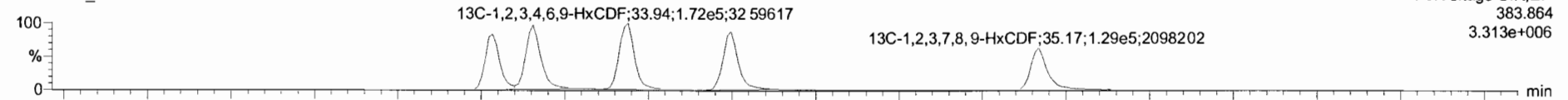


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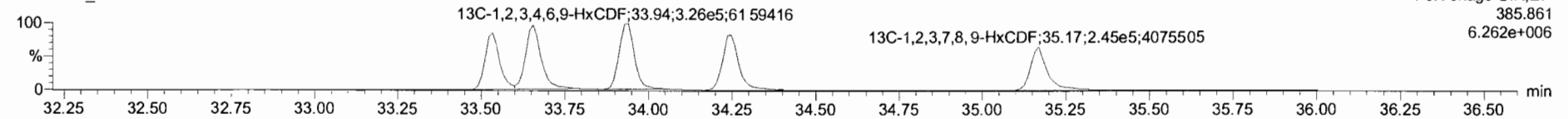


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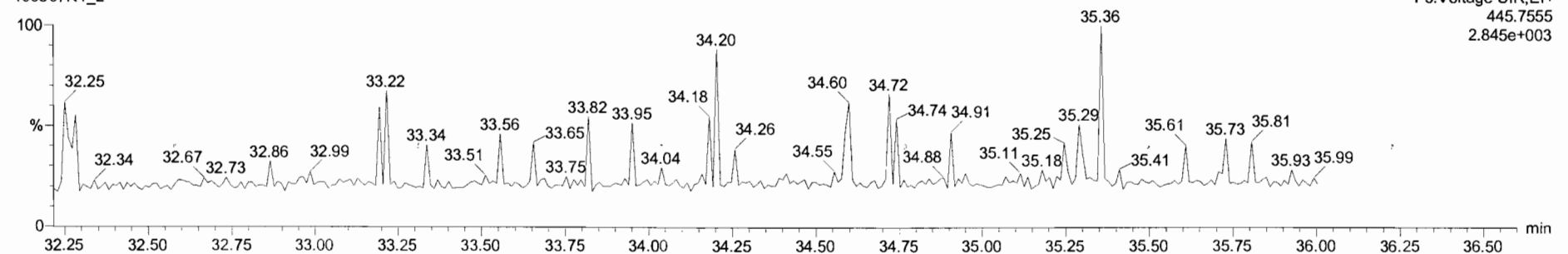


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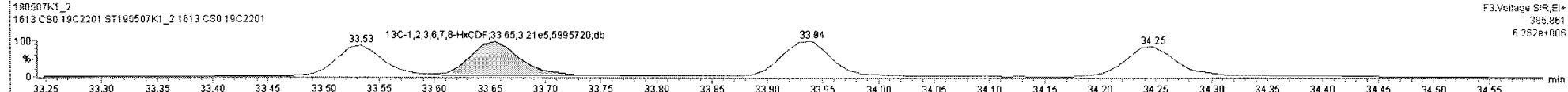
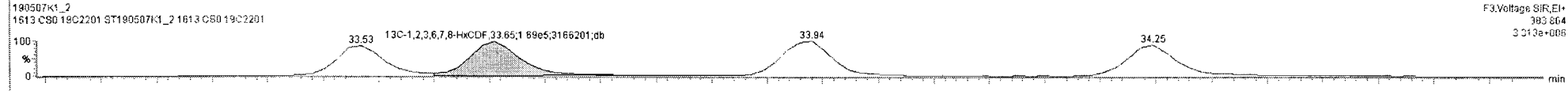
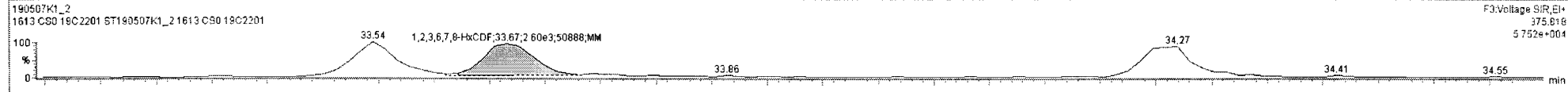
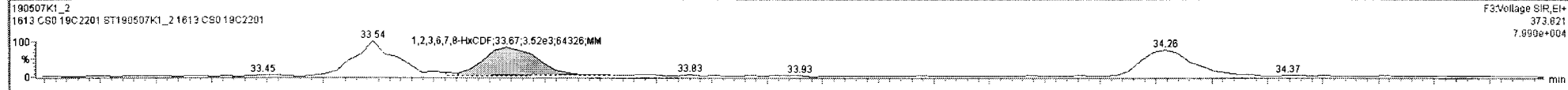
DPE3

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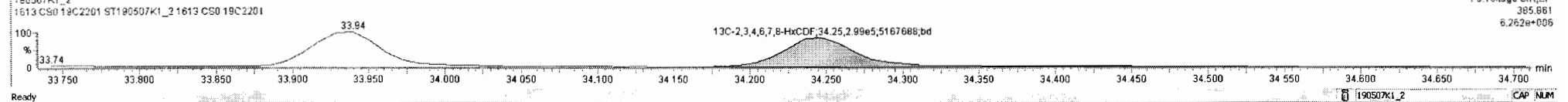
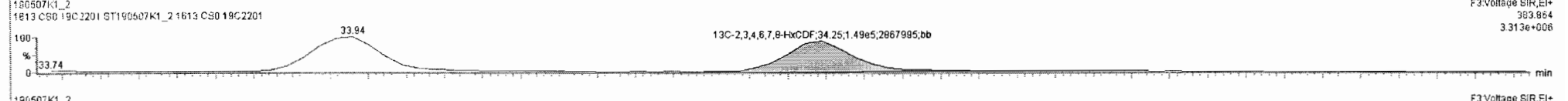
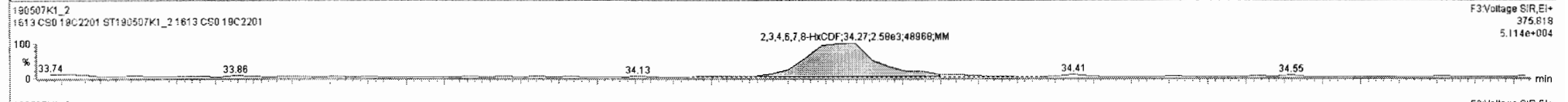
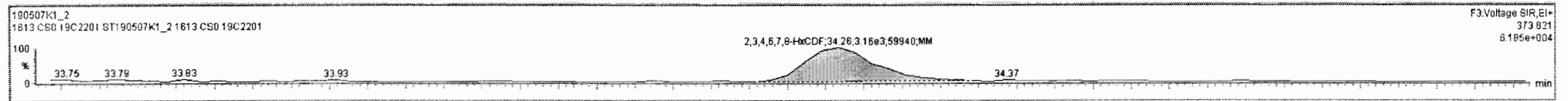


190507K1_2 - ST190507K1_2 1613 CS0 19C2201 - 1613 CS0 19C2201

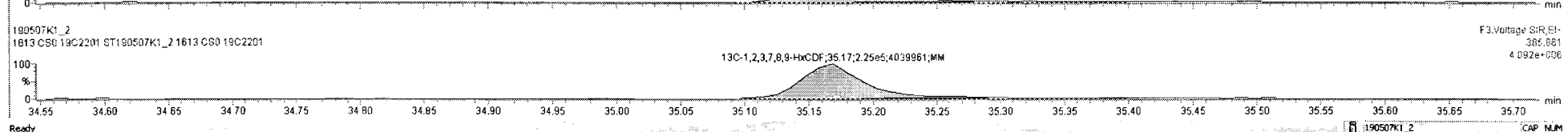
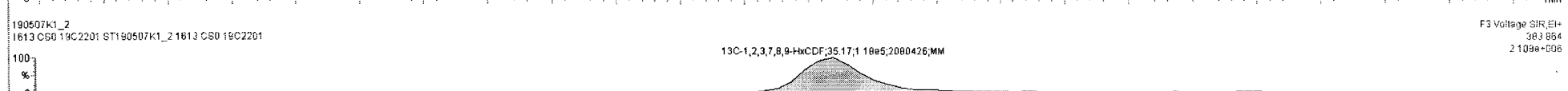
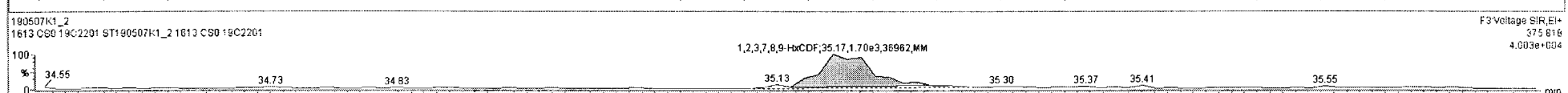
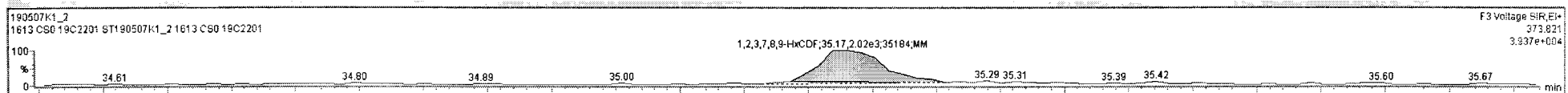
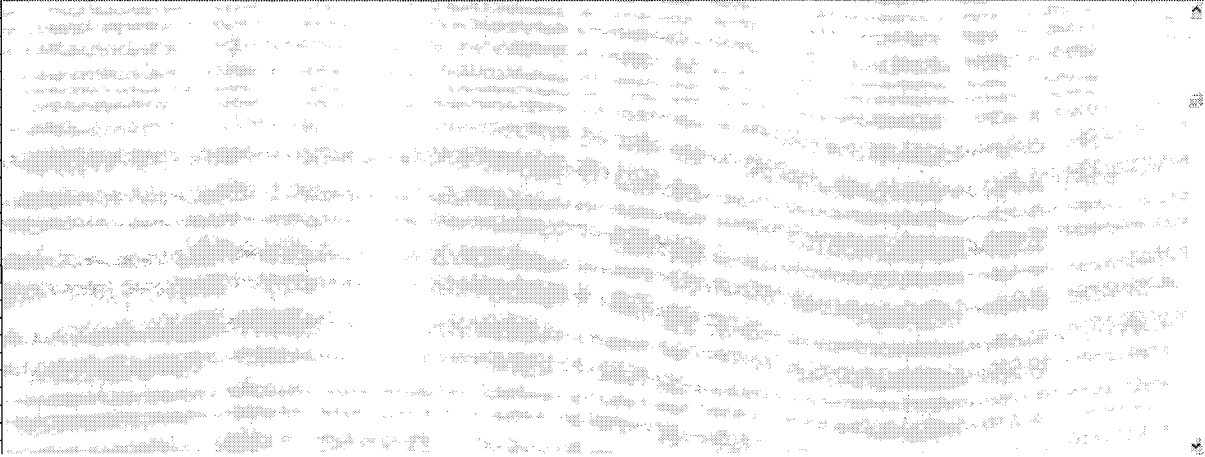
Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.000	2.32	92.6	0.123	2.31
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.67	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.38	NO	1.09	1.000	33.67	1.000	1.14	81.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.23	1.000	38.86	1.000	1.23	98.5	0.129	1.23
17 OCDF	1.16e4	0.86	NO	1.10	1.000	41.69	1.000	3.48	139	0.191	3.48
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	96.8	96.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.27	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	
24 13C-OCDD	4.62e5	0.90	NO	0.47	1.000	41.46	1.222	198	98.8	0.525	
25 13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26 13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27 13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.346	
28 13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.85	1.000	33.53	0.988	95.3	95.3	0.571	
29 13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	
30 13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541	
31 13C-1,2,3,7,8,9-HxCDF	3.43e5	0.52	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658	



Name	Resp	RA	nV	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC	
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.000	2.32	92.6	0.123	2.31
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.67	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.68e3	1.89	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	8.12e3	1.36	NO	1.09	1.000	33.87	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.23	1.000	36.86	1.000	1.23	96.5	0.129	1.23
17	OCDF	1.16e4	0.86	NO	1.10	1.000	41.89	1.000	3.48	136	0.191	3.48
18	13C-2,3,7,8-TCDD	5.80e5	0.79	NO	1.05	1.000	26.34	1.025	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.93e5	1.34	NO	0.85	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.27	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.478	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.86	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	36.90	1.128	93.6	93.6	0.470	
24	13C-OCDD	4.62e5	0.90	NO	0.47	1.000	41.46	1.222	199	96.8	0.525	
25	13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26	13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27	13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.346	
28	13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.85	1.000	33.53	0.988	95.3	95.3	0.571	
28	13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	
30	13C-2,3,4,6,7,8-HpCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541	
31	13C-1,2,3,7,8,9-HxCDF	3.43e5	0.52	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658	

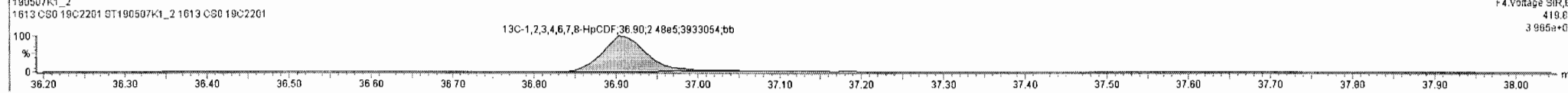
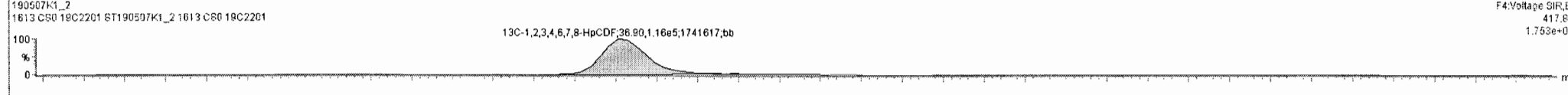
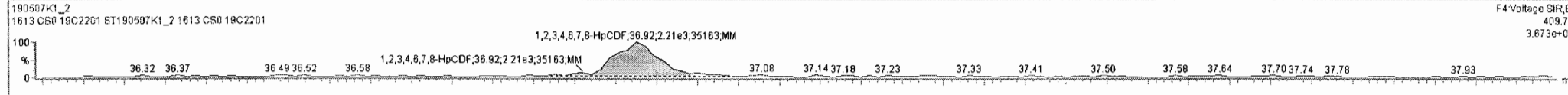
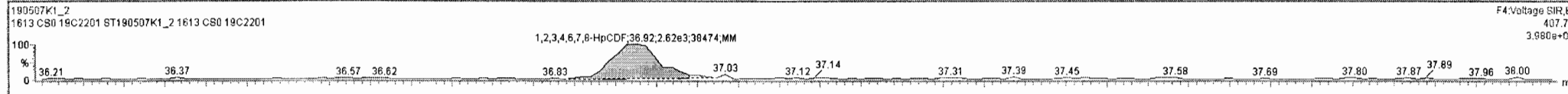


#	Name	Resp	RA	nNY	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.000	2.32	92.6	0.123	2.31
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.67	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	95.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.36	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.79e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.23	1.000	38.86	1.000	1.23	96.5	0.129	1.23
17	OCDF	1.16e4	0.86	NO	1.10	1.000	41.69	1.000	3.48	139	0.191	3.48
18	13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	96.5	96.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.27	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.478	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	36.30	1.128	93.6	93.6	0.470	
24	13C-OCDD	4.82e5	0.90	NO	0.47	1.000	41.46	1.222	198	98.8	0.525	
25	13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26	13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27	13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.346	
28	13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.85	1.000	33.53	0.988	95.3	95.3	0.571	
29	13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	
30	13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541	
31	13C-1,2,3,7,8,9-HxCDF	3.43e5	0.52	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658	



190507K1_2 - ST190507K1_2 1613 CS0 19C2201 - 1613 CS0 19C2201

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.000	2.32	92.6	0.123	2.31
8 2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9 1,2,3,7,8-PeCDF	7.12e3	1.67	NO	0.98	1.000	29.69	1.000	1.17	93.7	0.0634	1.17
10 2,3,4,7,8-PeCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11 1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12 1,2,3,6,7,8-HxCDF	6.12e3	1.36	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13 2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	96.9	0.0704	1.09
14 1,2,3,7,8,9-HxCDF	3.79e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	90.9	0.110	1.01
15 1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.16	94.1	0.115	1.16
16 1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.23	1.000	36.86	1.000	1.23	98.5	0.129	1.23
17 OCDF	1.16e4	0.86	NO	1.10	1.000	41.69	1.000	3.48	139	0.191	3.48
18 13C-2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19 13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20 13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21 13C-1,2,3,6,7,8-HxCDD	3.71e5	1.27	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22 13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23 13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	36.30	1.128	93.6	93.6	0.470	
24 13C-OCDD	4.62e5	0.90	NO	0.47	1.000	41.46	1.222	198	98.8	0.525	
25 13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26 13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27 13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.346	
28 13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.85	1.000	33.53	0.988	95.3	95.3	0.571	
29 13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	
30 13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541	
31 13C-1,2,3,7,8,9-HxCDF	3.43e5	0.52	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658	

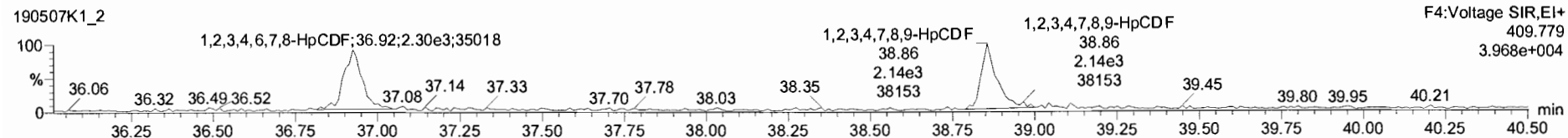
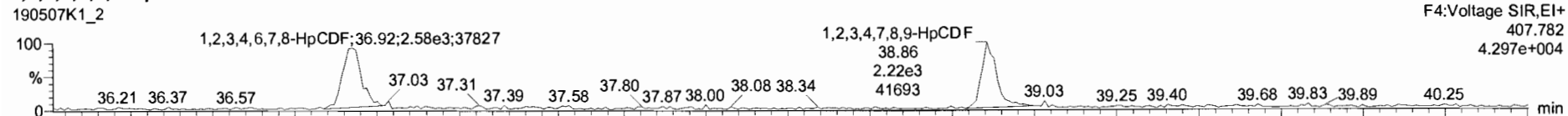


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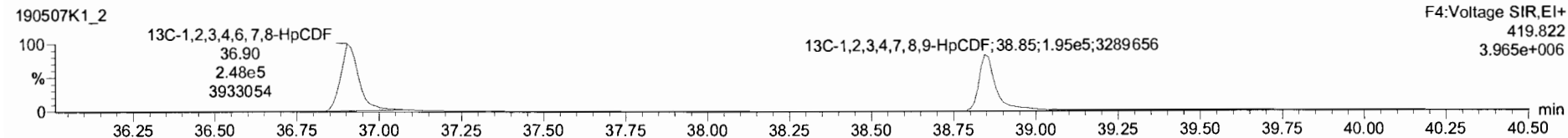
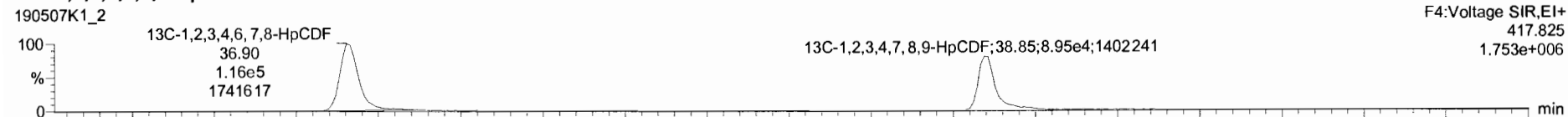
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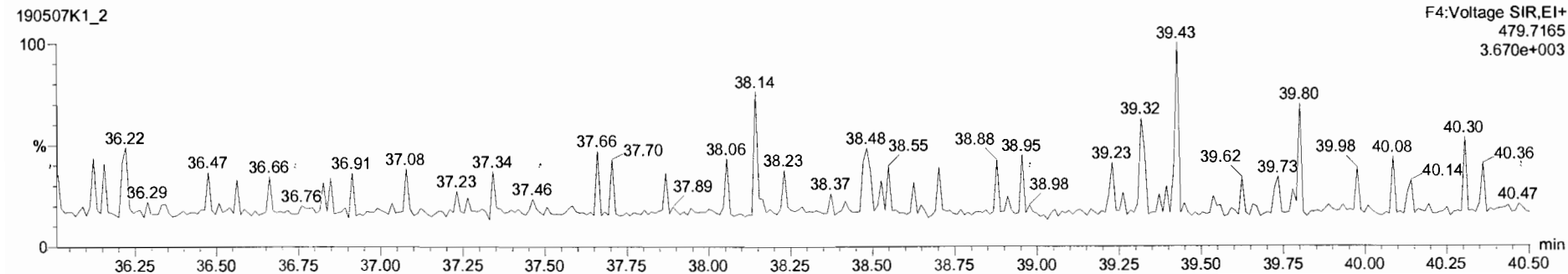
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13C-1,2,3,4,6,7,8-HpCDF

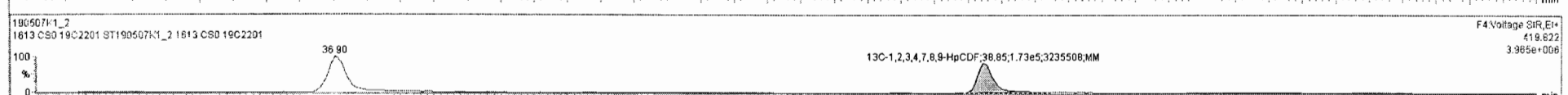
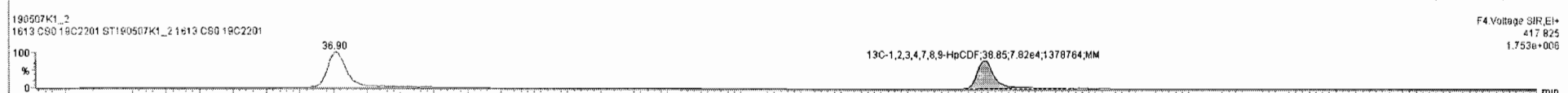
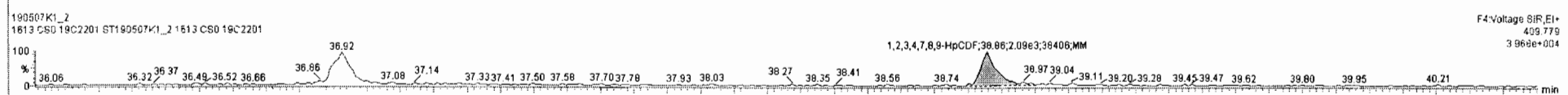
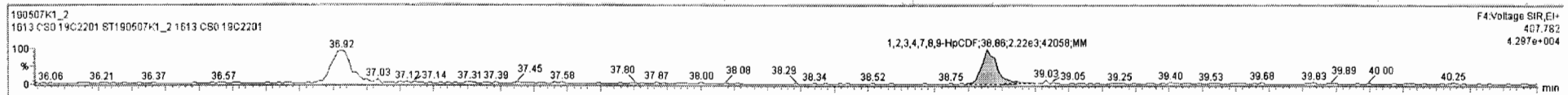
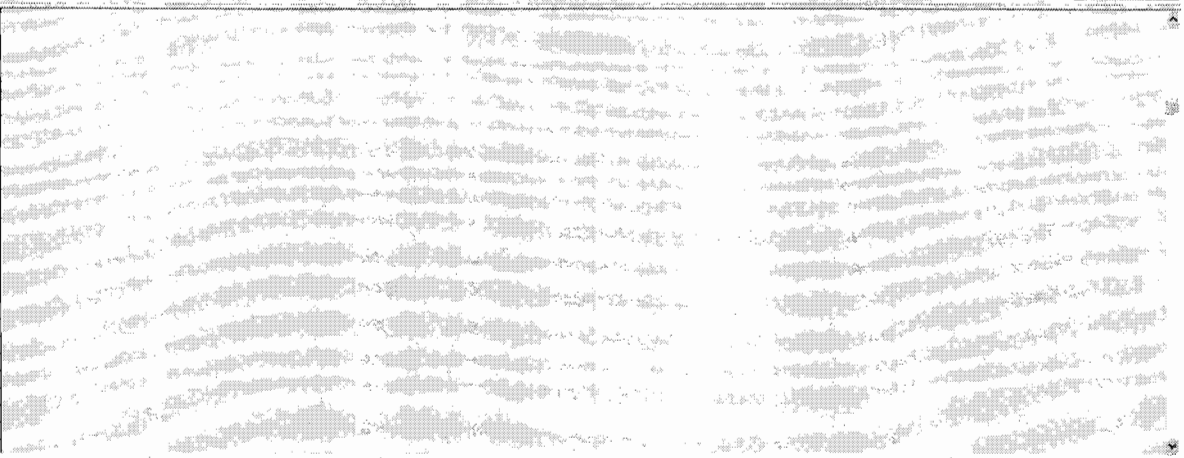


DPE4



190507K1_2 - ST190507K1_2 1613 CS0 19C2201 - 1613 CS0 19C2201

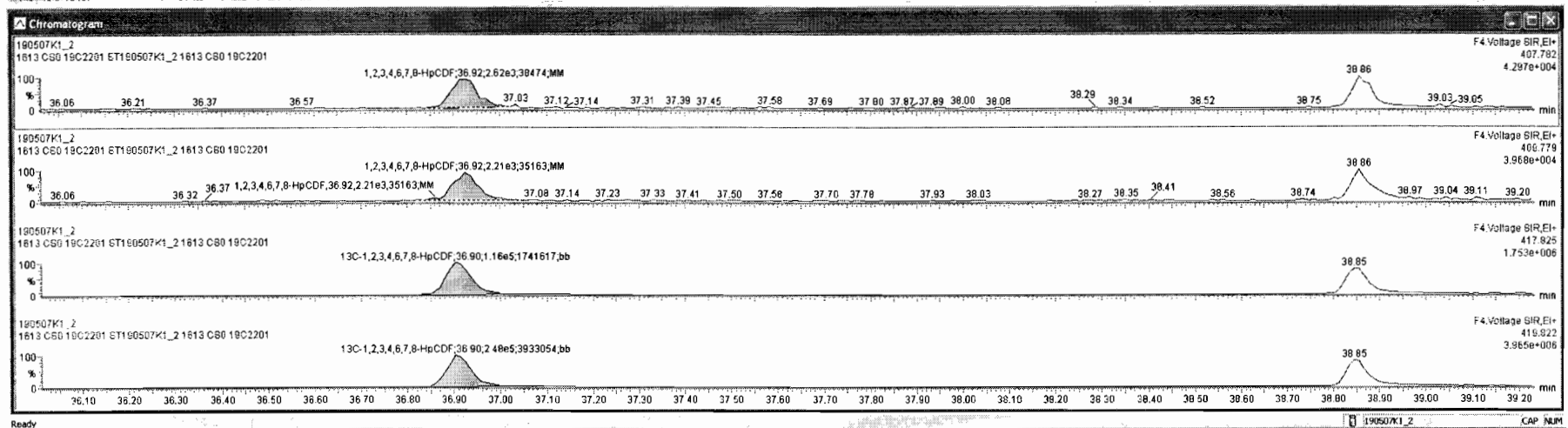
Name	Resp	RA	dy	RRF	wtAvl	RT	RRT	Conc	%Rec	DL	EMPC	
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.84	1.000	25.50	1.001	0.245	87.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.99	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.73e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	39.86	1.000	1.37	109	0.122	1.32
17	OCDF	1.16e4	0.85	NO	1.10	1.000	41.69	1.000	3.48	139	0.191	3.48
18	13C-2,3,7,8-TCDD	5.60e5	0.78	NO	1.05	1.000	26.34	1.026	89.5	99.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.85	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.86	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	
24	13C-OCDD	4.62e5	0.91	NO	0.47	1.000	41.46	1.221	198	98.8	0.525	
25	13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26	13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27	13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.346	
28	13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.95	1.000	33.53	0.988	95.3	95.3	0.571	
29	13C-1,2,3,6,7,8-HxCDF	4.50e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	
30	13C-2,3,4,6,7,8-HxCDF	4.48e5	0.50	NO	0.89	1.000	34.25	1.009	101	101	0.541	
31	13C-1,2,3,7,8,9-HxCDF	3.43e5	0.53	NO	0.73	1.000	35.17	1.036	94.0	94.0	0.658	



Target Lynx - 190507K1_CRY.qld

190507K1_2-ST190507K1_2-1613.CS0-19C2201-1613.CS0-19C2201

Name	Resp	RA	rv	REF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	1.33e3	0.88	NO	0.92	1.000	26.34	1.000	0.247	98.8	0.0640	0.247
2	1,2,3,7,8-PeCDD	4.13e3	0.67	NO	0.90	1.000	31.14	1.001	1.20	95.3	0.0640	1.20
3	1,2,3,4,7,8-HxCDD	3.85e3	1.38	NO	1.07	1.000	34.42	1.001	1.19	95.2	0.0463	1.19
4	1,2,3,6,7,8-HxCDD	4.41e3	1.40	NO	0.97	1.000	34.53	1.001	1.23	98.4	0.0448	1.23
5	1,2,3,7,8,9-HxCDD	3.68e3	1.08	NO	0.97	1.000	34.81	1.000	1.30	104	0.0570	1.30
6	1,2,3,4,6,7,8-HpCDD	3.20e3	0.97	NO	1.03	1.000	38.32	1.001	1.24	99.2	0.0752	1.24
7	OCDD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0608	0.245
9	1,2,3,7,8-PeCDF	6.79e3	1.92	YES	0.97	1.000	29.89	1.000	1.12	89.9	0.0638	0.981
10	2,3,4,7,8-HxCDF	6.68e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0562	1.15
11	1,2,3,4,6,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	95.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.09	86.9	0.0704	1.09
14	1,2,3,7,8,9-HxCDF	3.74e3	1.19	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.119	1.01
15	1,2,3,4,6,7,8-HpCDF	4.62e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	OCDF	4.31e3	1.07	NO	1.26	1.000	38.86	1.000	1.37	109	0.127	1.37
17	1,2,3,7,8-TCDF	1.12e4	0.91	NO	1.10	1.000	41.69	1.000	3.49	139	0.191	3.49
18	1,2,3,7,8-TCDD	5.80e5	0.78	NO	1.05	1.000	26.34	1.028	88.5	88.5	0.219	
19	1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.559	
23	1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	

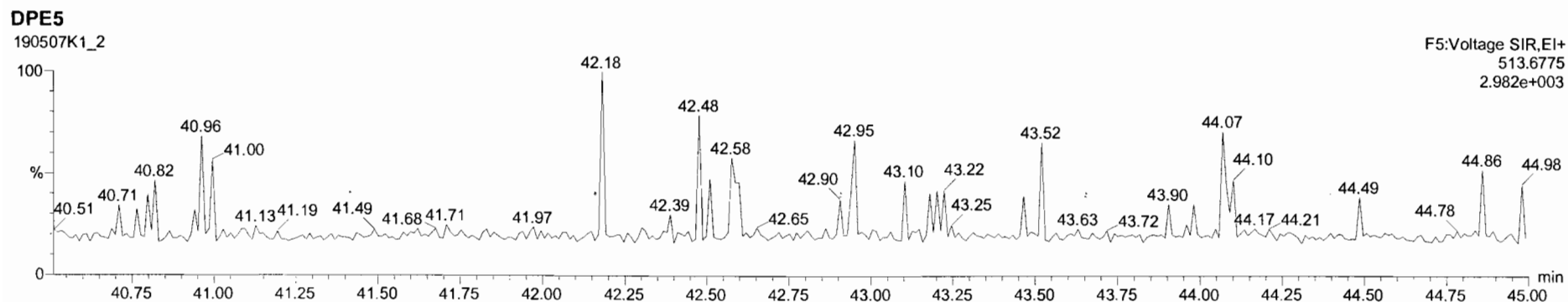
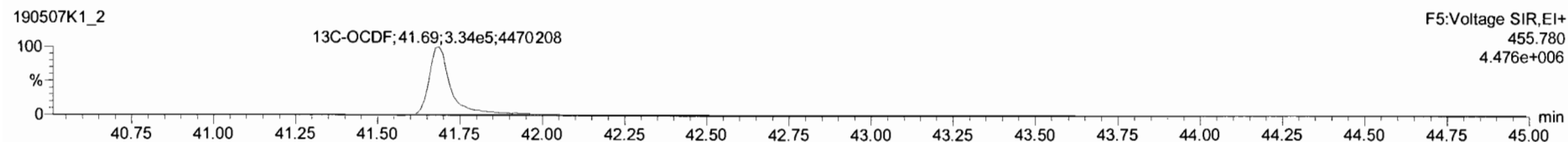
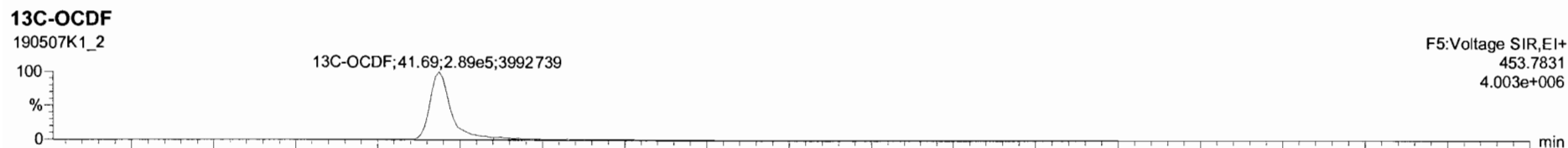
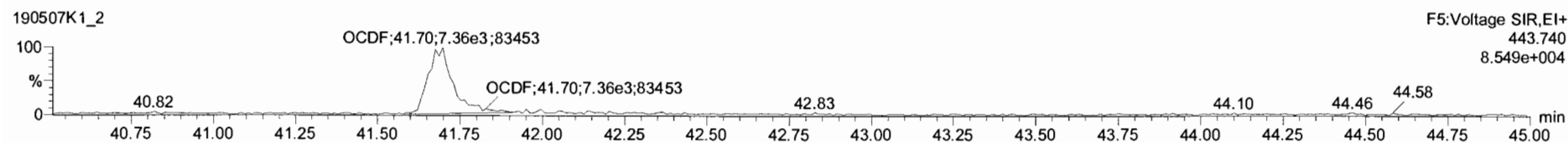
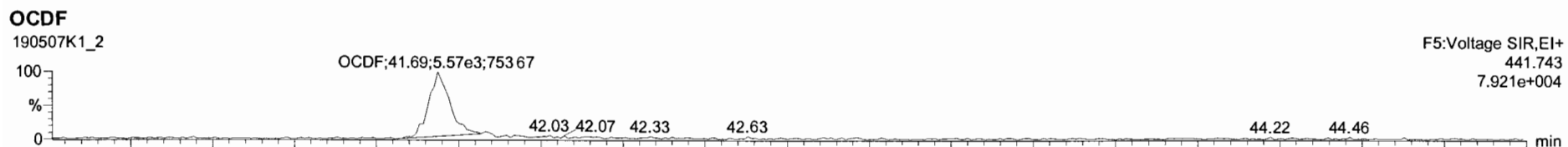


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201

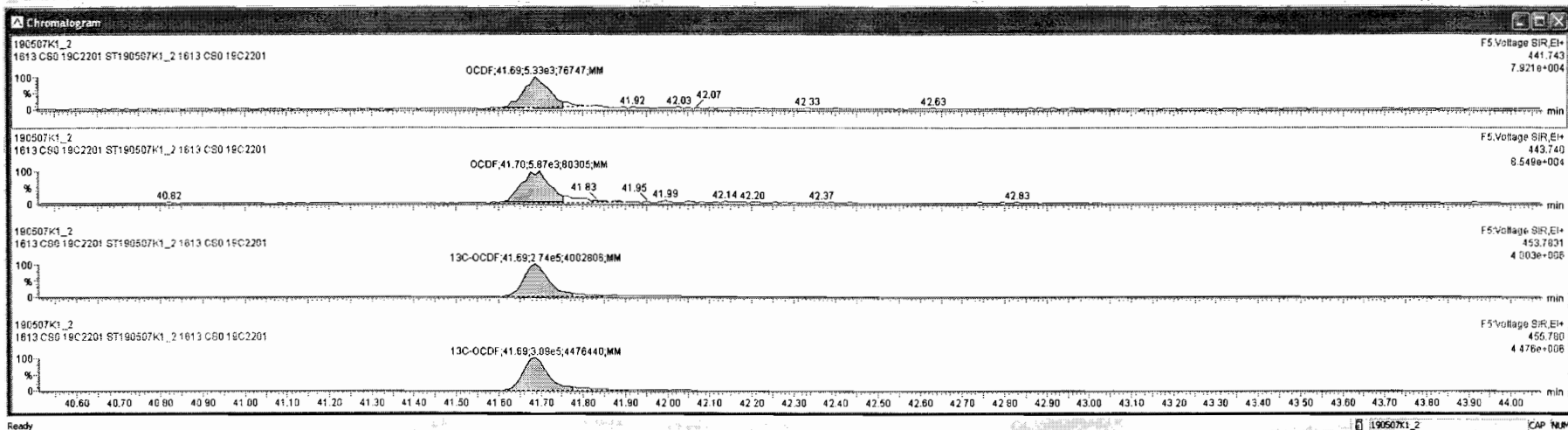


Target: lymx - 190507K1_CRV.gld

File Edit View Display Processing Window Help

190507K1_2 - ST190507K1_2-1613 CS0 19C2201 - 1613 CS0 19C2201

#	Name	Resp	RA	IIV	RRF	WtVol	RT	RRT	Conc	%Rec	DL	EMPC
7	OCD	5.20e3	0.90	NO	0.97	1.000	41.48	1.001	2.32	92.6	0.123	2.32
8	2,3,7,8-TCDF	1.85e3	0.81	NO	0.94	1.000	25.50	1.001	0.245	97.9	0.0508	0.245
9	1,2,3,7,8-PeCDF	7.12e3	1.68	NO	0.98	1.000	29.89	1.000	1.17	93.7	0.0634	1.17
10	2,3,4,7,8-PeCDF	6.88e3	1.69	NO	1.00	1.000	30.86	1.001	1.15	92.2	0.0662	1.15
11	1,2,3,4,7,8-HxCDF	6.00e3	1.34	NO	1.24	1.000	33.54	1.000	1.20	96.3	0.0720	1.20
12	1,2,3,6,7,8-HxCDF	6.12e3	1.35	NO	1.09	1.000	33.67	1.000	1.14	91.4	0.0714	1.14
13	2,3,4,6,7,8-HxCDF	5.74e3	1.22	NO	1.18	1.000	34.26	1.000	1.08	86.9	0.0704	1.08
14	1,2,3,7,8,9-HxCDF	3.73e3	1.18	NO	1.07	1.000	35.17	1.000	1.01	80.9	0.110	1.01
15	1,2,3,4,6,7,8-HpCDF	4.83e3	1.19	NO	1.13	1.000	36.92	1.001	1.18	94.1	0.115	1.18
16	1,2,3,4,7,8,9-HpCDF	4.31e3	1.07	NO	1.26	1.000	36.86	1.000	1.37	109	0.127	1.37
17	OCD	1.12e4	0.91	NO	1.10	1.000	41.60	1.000	3.48	136	0.191	3.48
18	13C-2,3,7,8-TCDD	5.90e5	0.78	NO	1.05	1.000	26.34	1.026	98.5	98.5	0.219	
19	13C-1,2,3,7,8-PeCDD	3.79e5	0.63	NO	0.74	1.000	31.12	1.212	90.9	90.9	0.224	
20	13C-1,2,3,4,7,8-HxCDD	3.03e5	1.34	NO	0.65	1.000	34.40	1.014	94.1	94.1	0.572	
21	13C-1,2,3,6,7,8-HxCDD	3.71e5	1.28	NO	0.78	1.000	34.51	1.017	95.9	95.9	0.476	
22	13C-1,2,3,7,8,9-HxCDD	2.90e5	1.25	NO	0.66	1.000	34.80	1.025	87.9	87.9	0.558	
23	13C-1,2,3,4,6,7,8-HpCDD	2.52e5	1.01	NO	0.54	1.000	38.30	1.128	93.6	93.6	0.470	
24	13C-OCD	4.62e5	0.91	NO	0.47	1.000	41.46	1.221	198	98.8	0.525	
25	13C-2,3,7,8-TCDF	8.07e5	0.79	NO	0.98	1.000	25.48	0.992	99.2	99.2	0.417	
26	13C-1,2,3,7,8-PeCDF	6.20e5	1.64	NO	0.78	1.000	29.89	1.164	95.7	95.7	0.333	
27	13C-2,3,4,7,8-PeCDF	5.77e5	1.56	NO	0.75	1.000	30.84	1.201	92.4	92.4	0.348	
28	13C-1,2,3,4,7,8-HxCDF	4.01e5	0.52	NO	0.85	1.000	33.53	0.988	95.3	95.3	0.571	
29	13C-1,2,3,6,7,8-HxCDF	4.90e5	0.53	NO	1.03	1.000	33.65	0.992	95.9	95.9	0.470	

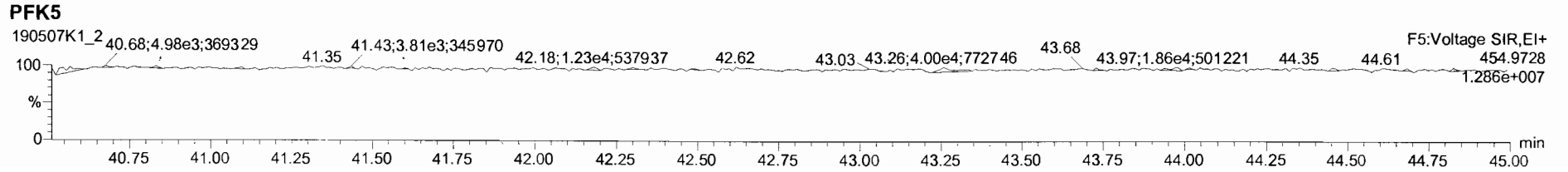
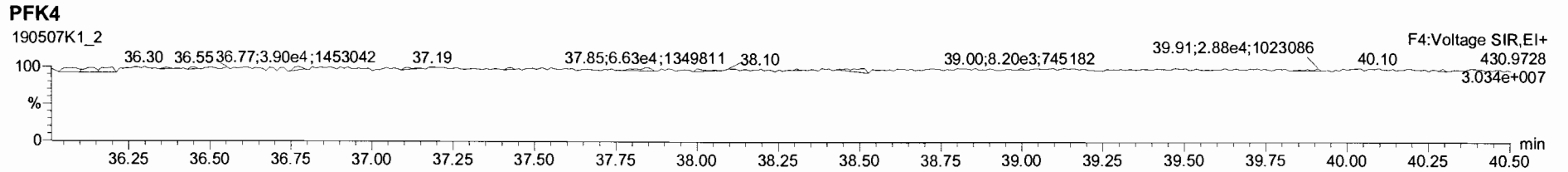
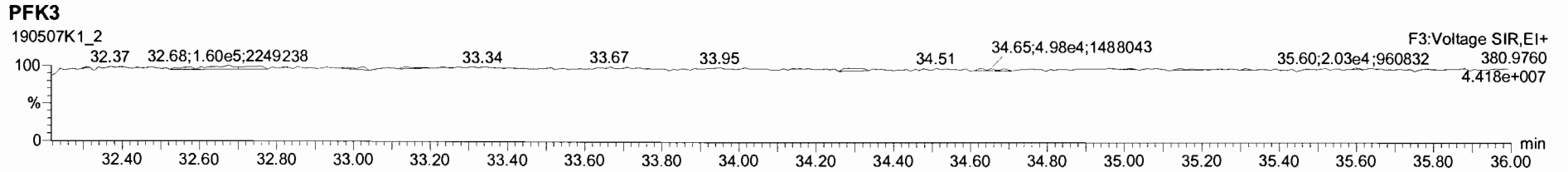
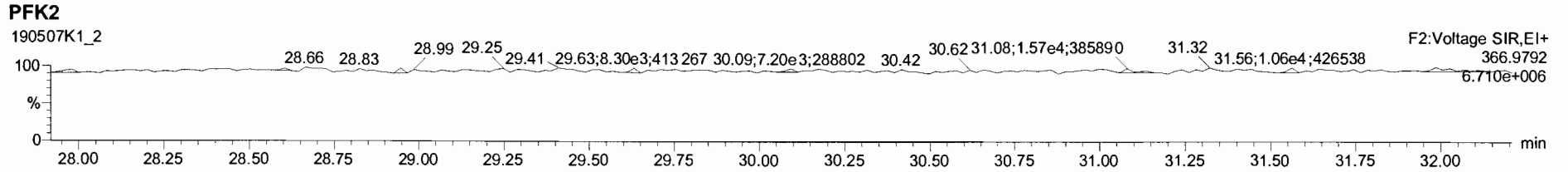
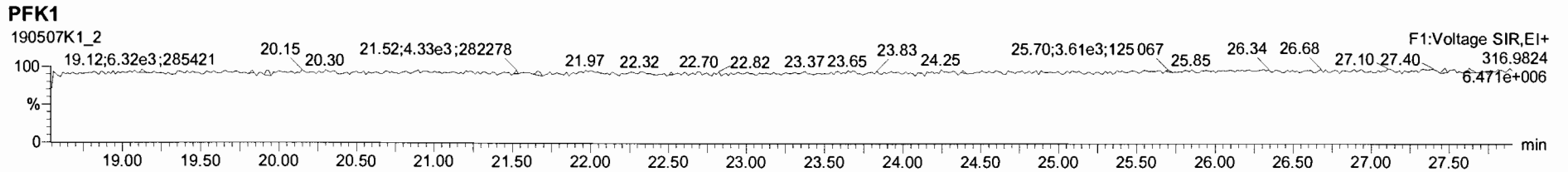


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_2, Date: 07-May-2019, Time: 11:18:22, ID: ST190507K1_2 1613 CS0 19C2201, Description: 1613 CS0 19C2201



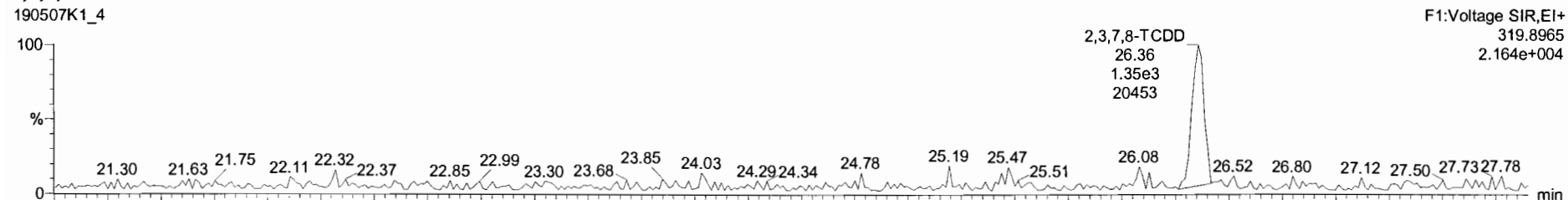
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

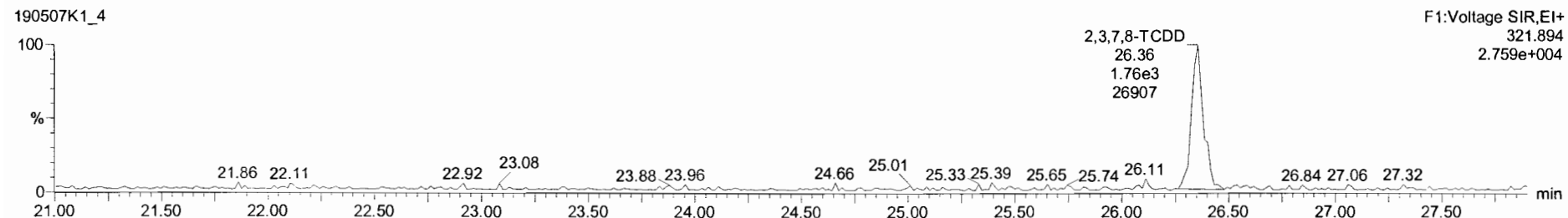
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2,3,7,8-TCDD

190507K1_4



190507K1_4

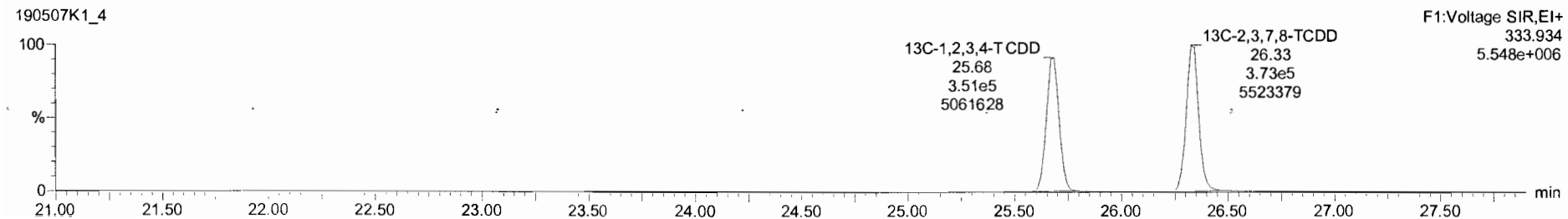


13C-2,3,7,8-TCDD

190507K1_4



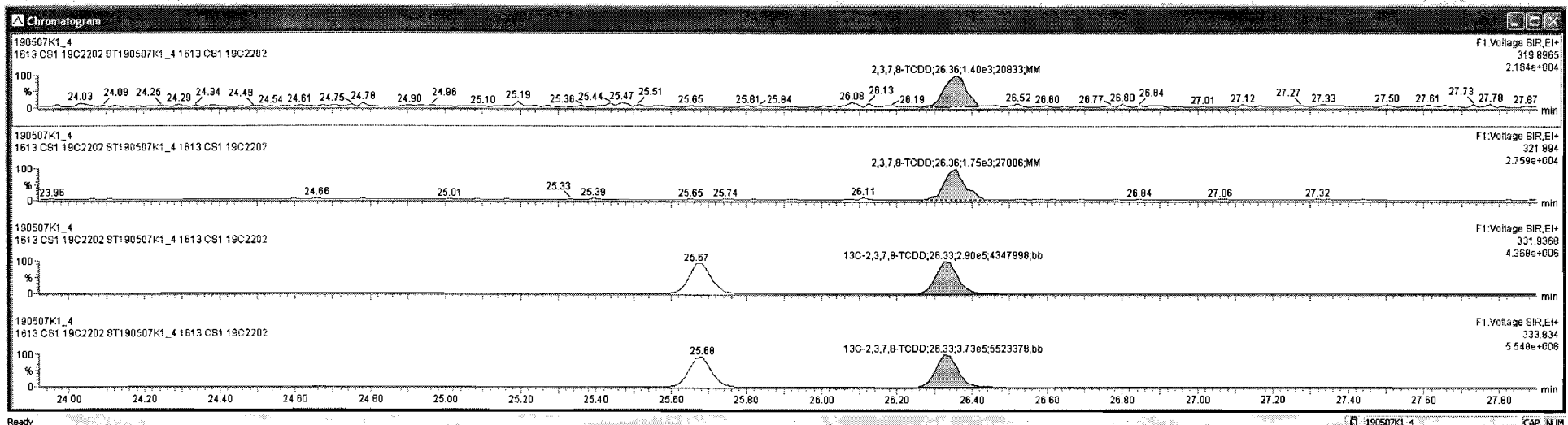
190507K1_4



TargetL.ynx 190507K1.CRV.qld

190507K1_4 - ST190507K1_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Name	Resp	RA	RY	RRF	wt/Vol	RT	RRT	Conc	%Rec	IL	EMPC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0980	2.32
4 1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.26e3	1.22	NO	0.97	1.000	34.60	1.000	2.48	99.1	0.118	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.16	1.000	2.42	96.9	0.138	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.5	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.08	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



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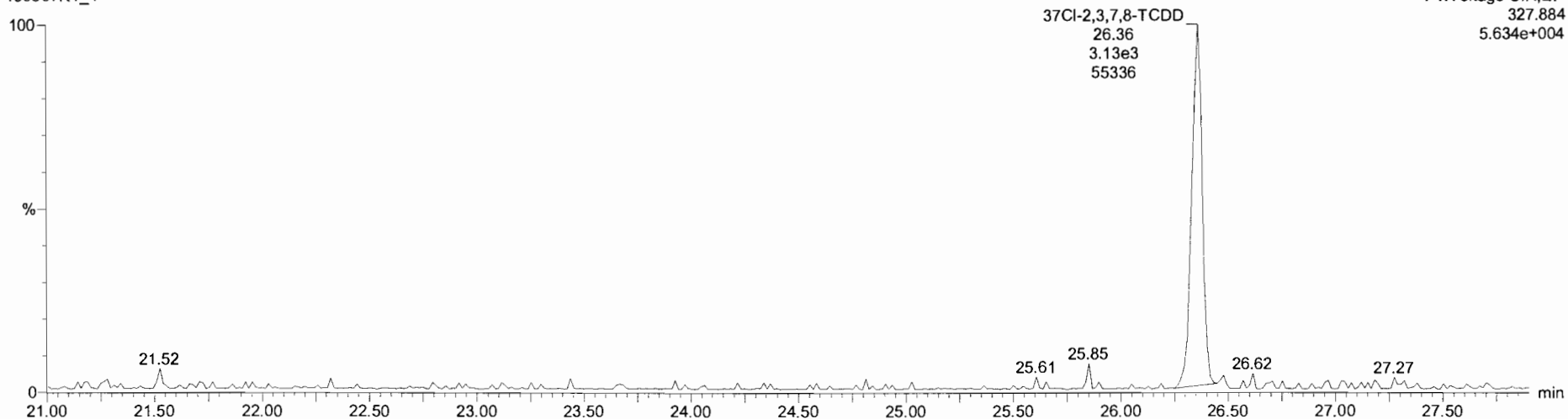
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

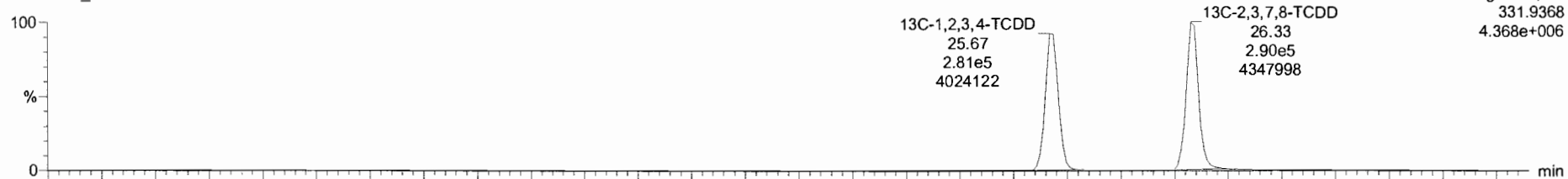
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190507K1_4

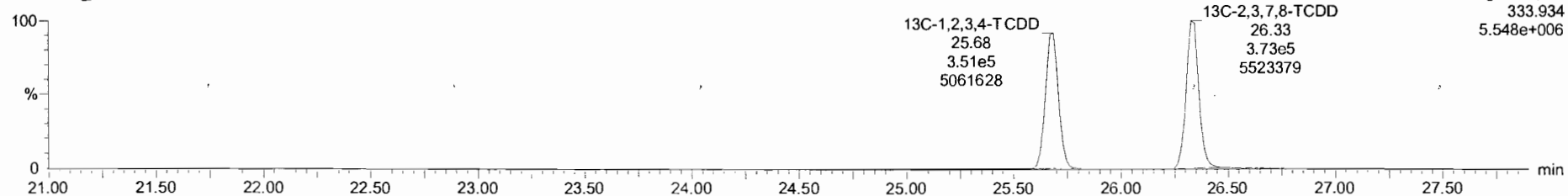


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190507K1_4



190507K1_4



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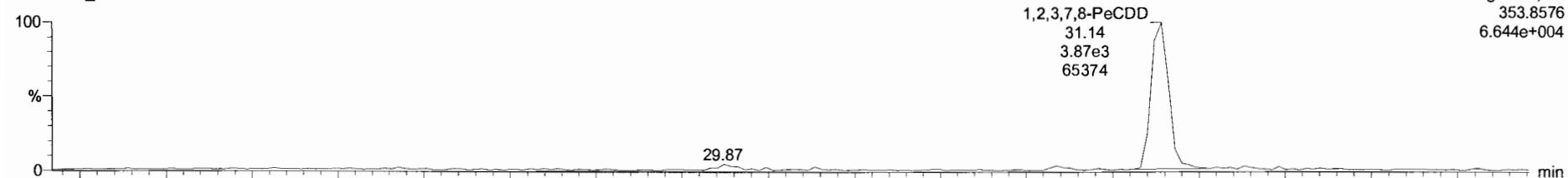
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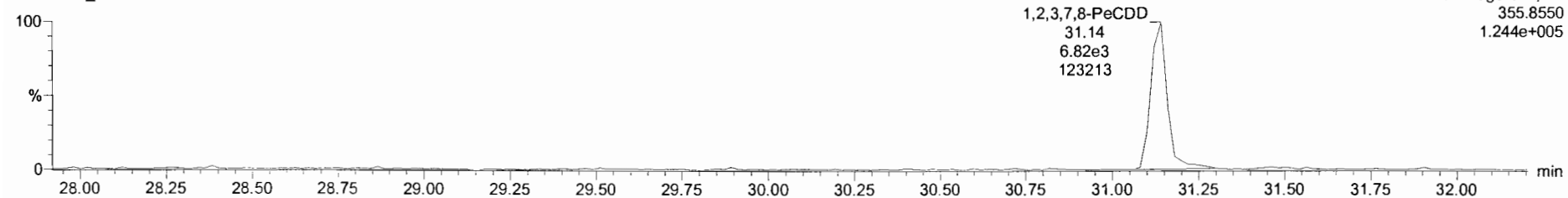
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1,2,3,7,8-PeCDD

190507K1_4

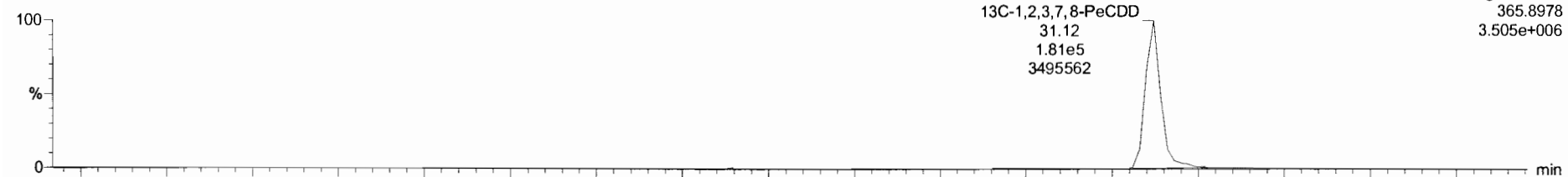


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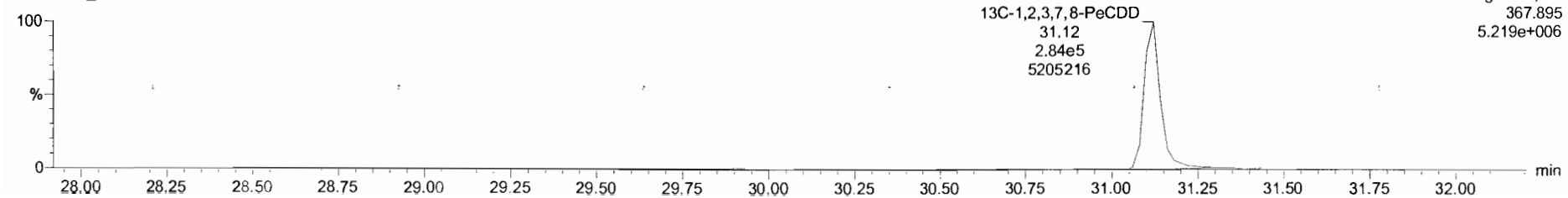


13C-1,2,3,7,8-PeCDD

190507K1_4



190507K1_4



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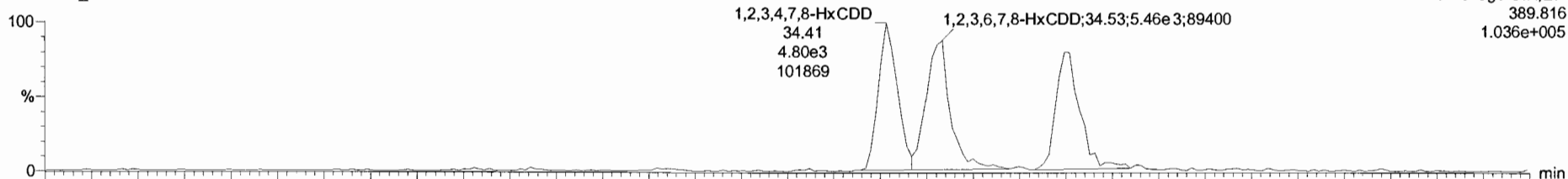
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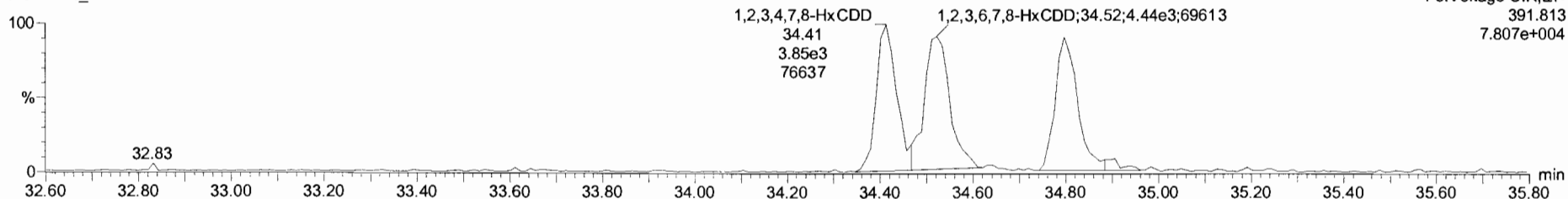
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1,2,3,4,7,8-HxCDD

190507K1_4

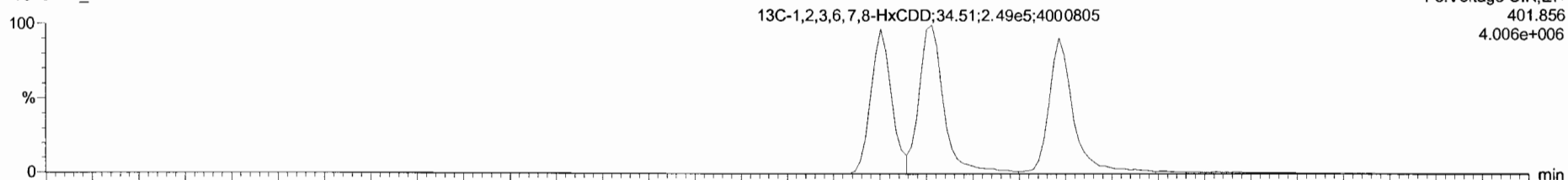


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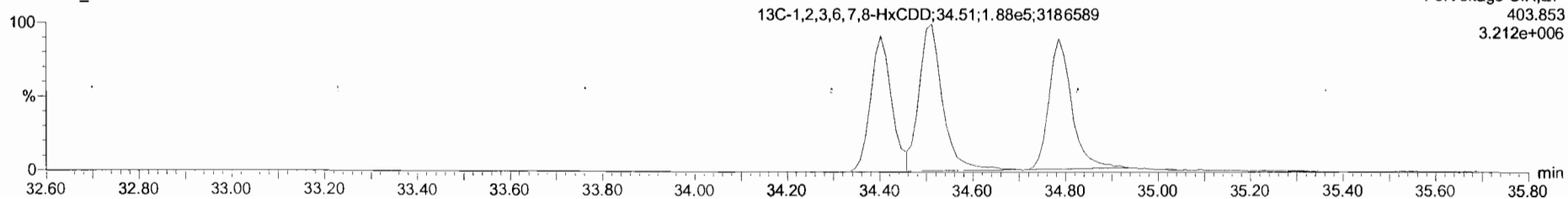


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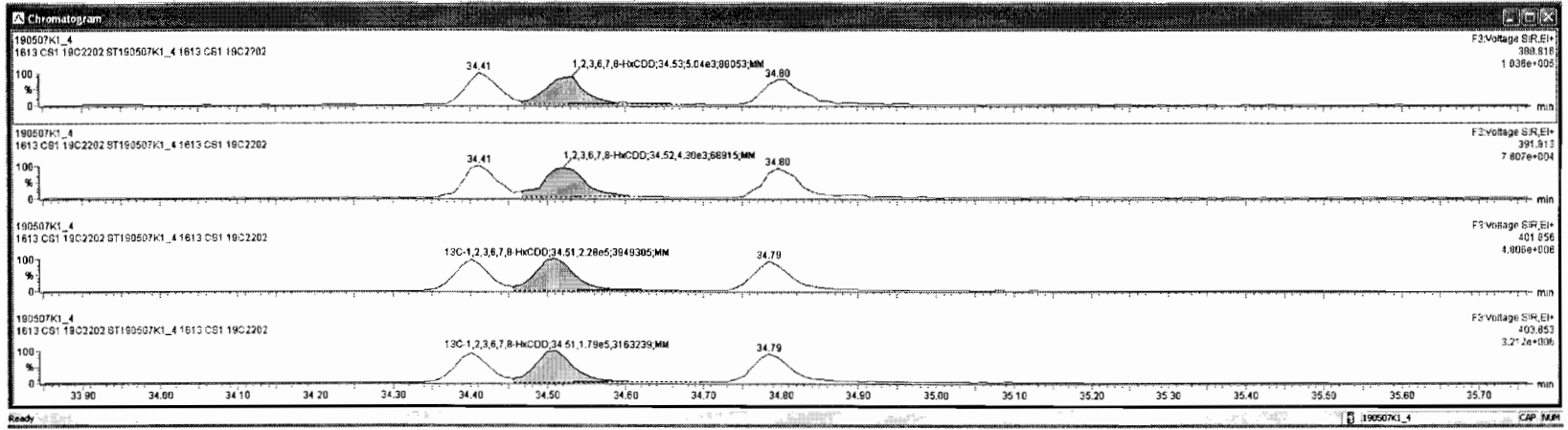
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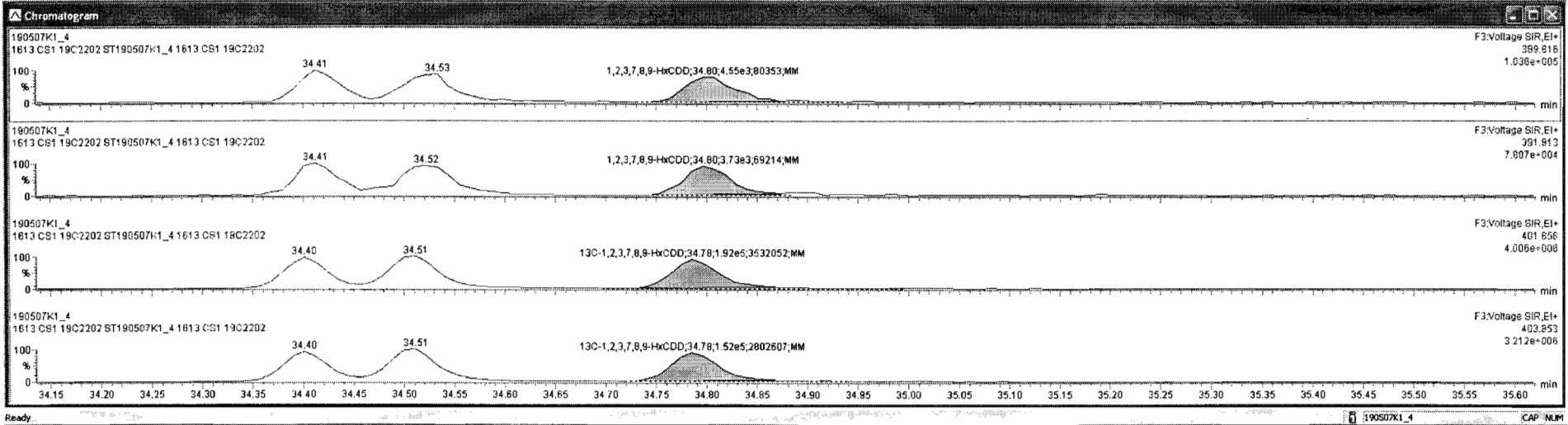


Name	Resp	RA	rv	FW	RT	RRT	Conv	%Hrs	DC	EMC	
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.38	1.001	0.513	100	0.8603	9.514
2 1,2,3,7,8-PeCDF	1.07e4	0.57	NO	0.80	1.000	37.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	3.32	92.6	0.0990	2.32
4 1,2,3,6,7,8-HxCDD	9.39e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.8	0.107	2.37
5 1,2,3,7,8-HxCDF	8.29e3	1.22	NO	0.97	1.000	34.60	1.000	2.48	99.1	0.119	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.87	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	99.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.87	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.66	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.39	99.1	0.0897	2.39
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	99.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0840	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.43	99.8	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.17e4	1.03	NO	1.13	1.000	36.51	1.000	2.44	97.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.26e3	1.04	NO	1.26	1.000	38.86	1.000	2.39	91.4	0.141	2.28
17 OCDF	1.59e4	0.88	NO	1.10	1.000	41.70	1.000	4.54	99.8	0.195	4.54
18 1,3C-2,3,7,8-TCDD	8.84e5	0.78	NO	1.05	1.000	26.33	1.025	100	100	0.249	
19 1,3C-1,2,3,7,8-PeCDD	4.85e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 1,3C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21 1,3C-1,2,3,6,7,8-HxCDD	4.07e5	1.26	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22 1,3C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23 1,3C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



190507k1_4 - ST190507k1_4 1613 CS1 19C2202 - 1613 CS1 19C2202

None	Resp	RA	Inv	RRF	WtVol	RT	RRT	Conc	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.49	99.1	0.119	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7	OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8	2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10	2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	38.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-2,3,7,8-TCDD	6.84e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.85e5	0.84	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.26	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.86	1.000	34.78	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



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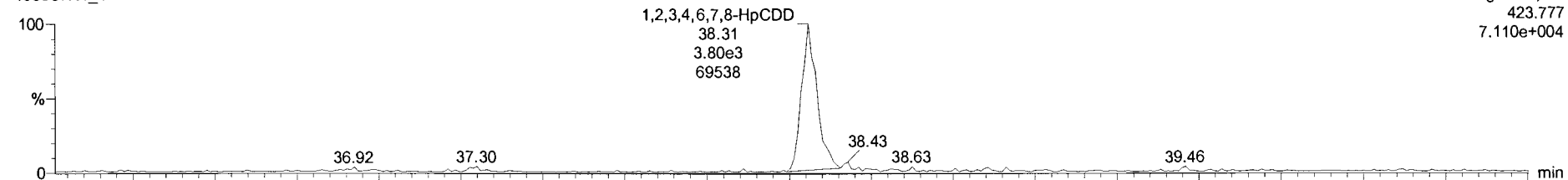
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

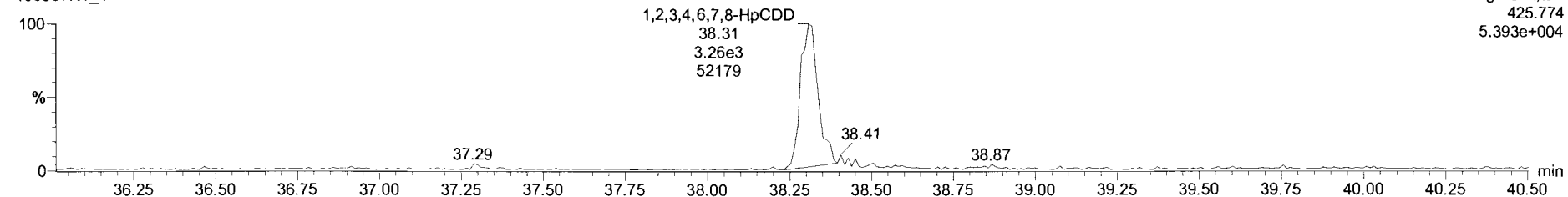
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190507K1_4

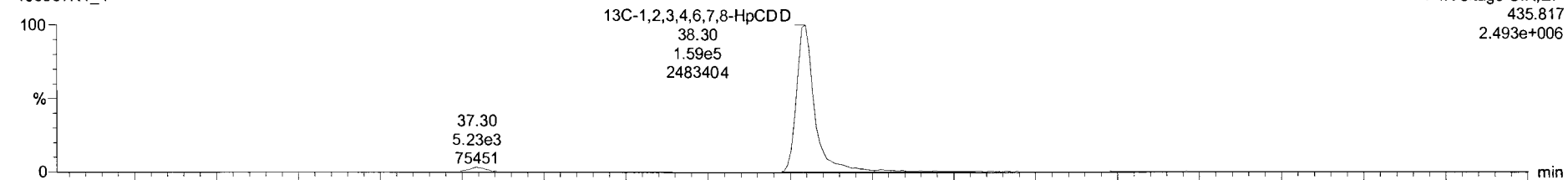


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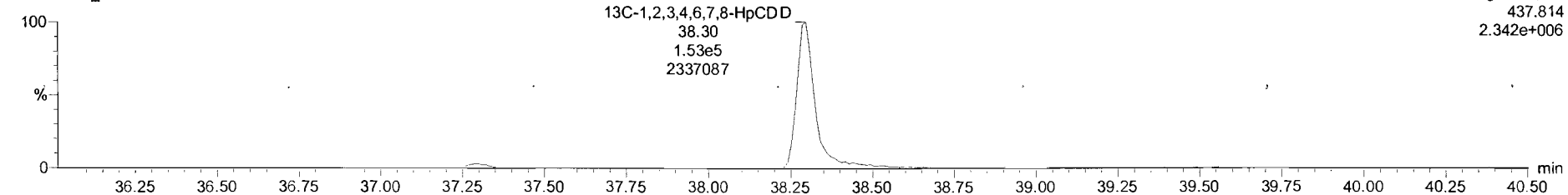


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190507K1_4



190507K1_4

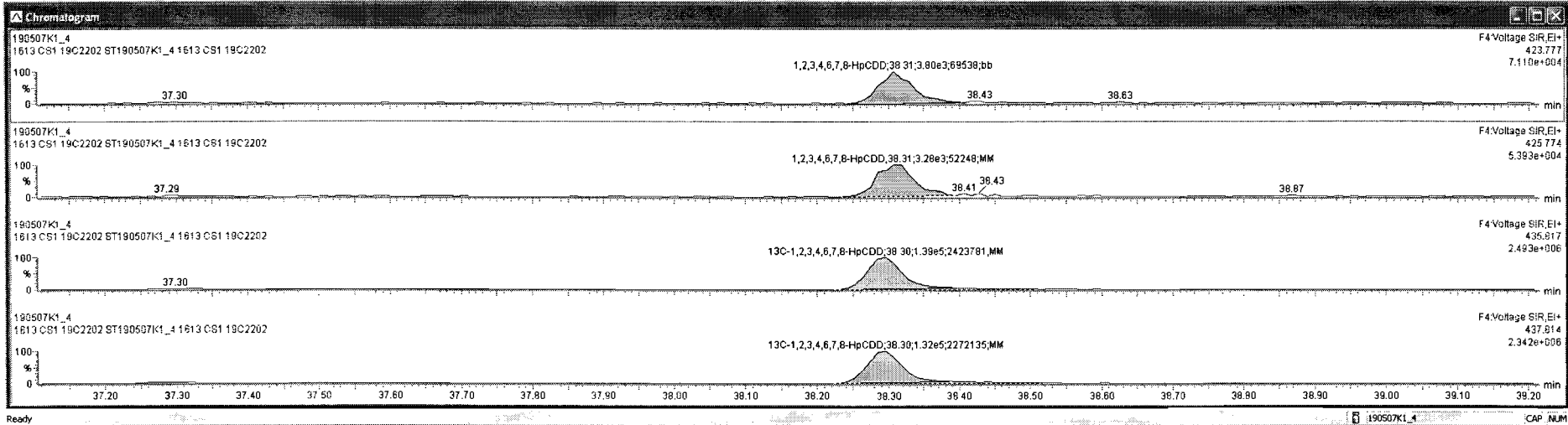


TargetLynx 190507K1.CRV.qld

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190507K1_4 - ST190507K1_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Peak	Name	Resp	RA	dy	RRF	wMol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.003	34.41	1.000	3.32	92.6	0.0980	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6	1,2,3,4,6,7,8-HpCDD	7.09e3	1.16	NO	1.03	1.000	38.31	1.000	2.56	102	0.102	2.56
7	OCDD	1.13e4	0.85	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8	2,3,7,8-TCDF	4.05e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10	2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.85e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	83.6	93.8	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.68	1.000	34.78	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	

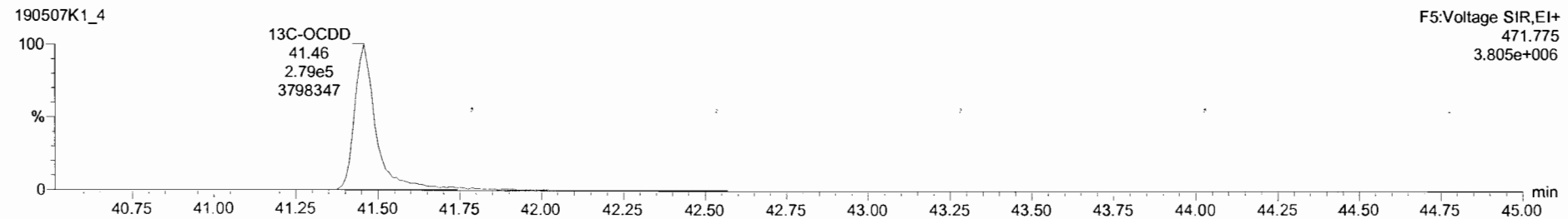
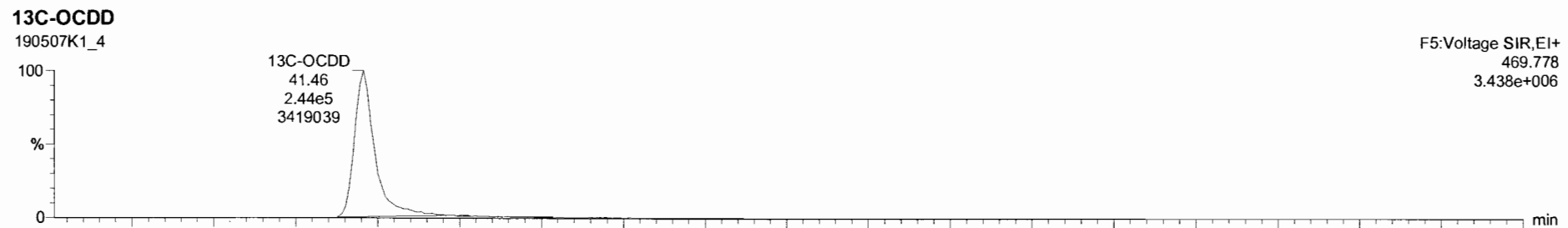
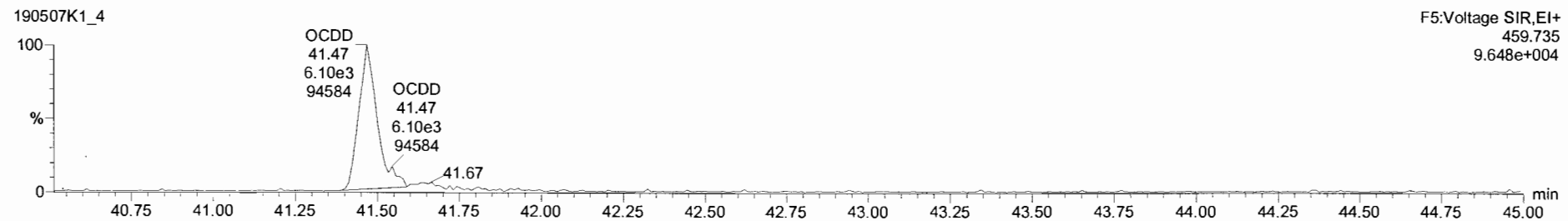
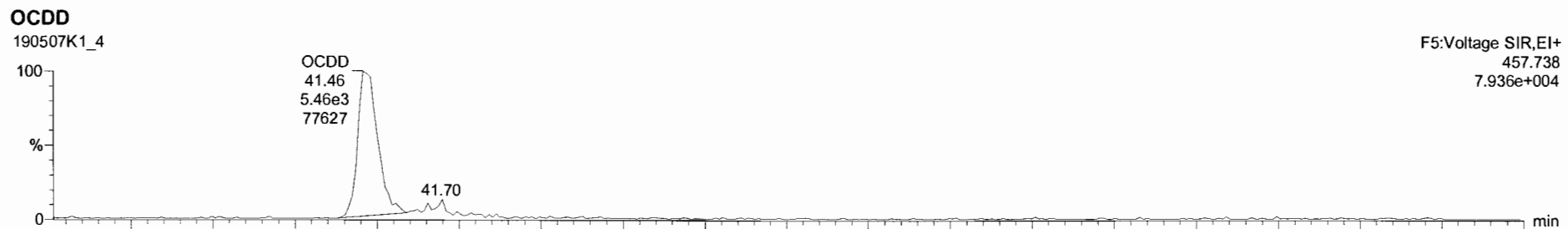


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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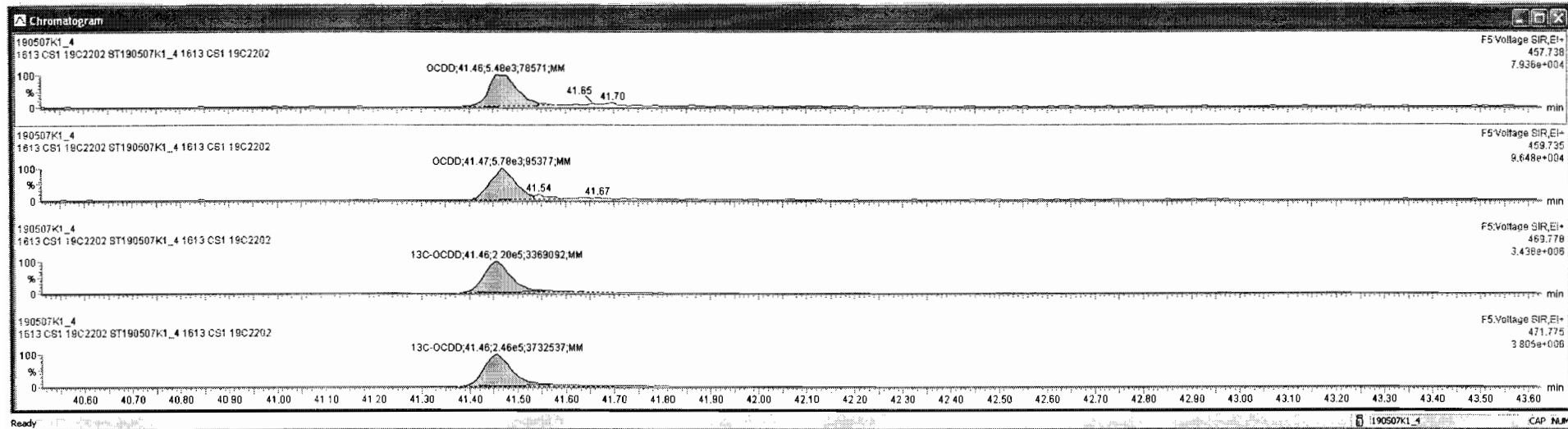


Target1.ynx - 190507K1-CRW.gld

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190507K1_4-ST190507K1_4 1613 CS1 19C2202- 1613 CS1 19C2202

Name	Resp	RA	nlv	RRF	retVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	6.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4 1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.29e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.462	96.4	0.0452	0.462
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.88	1.001	2.34	93.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.16	1.000	2.42	96.9	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	36.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.86	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.08	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



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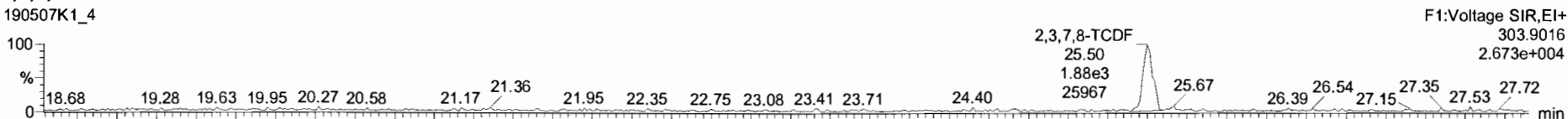
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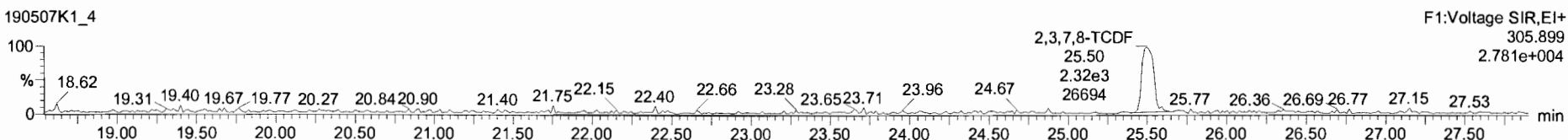
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2,3,7,8-TCDF

190507K1_4

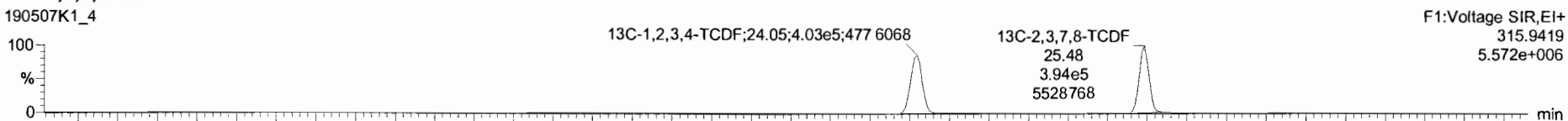


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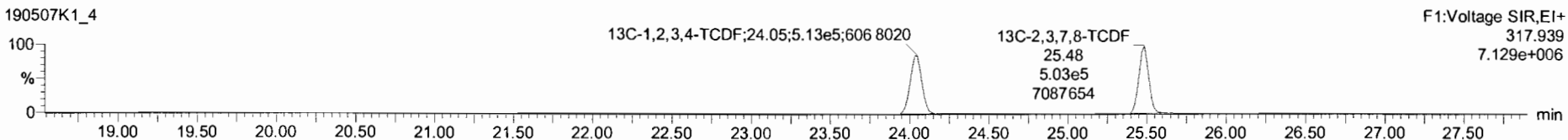


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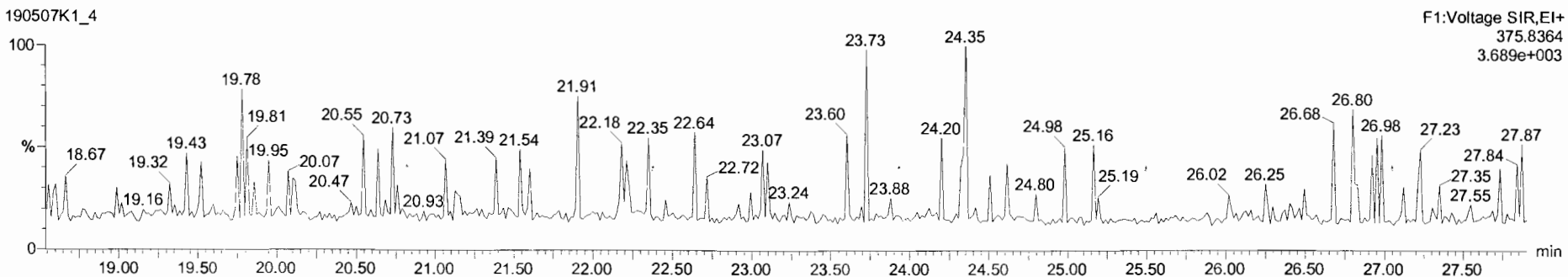


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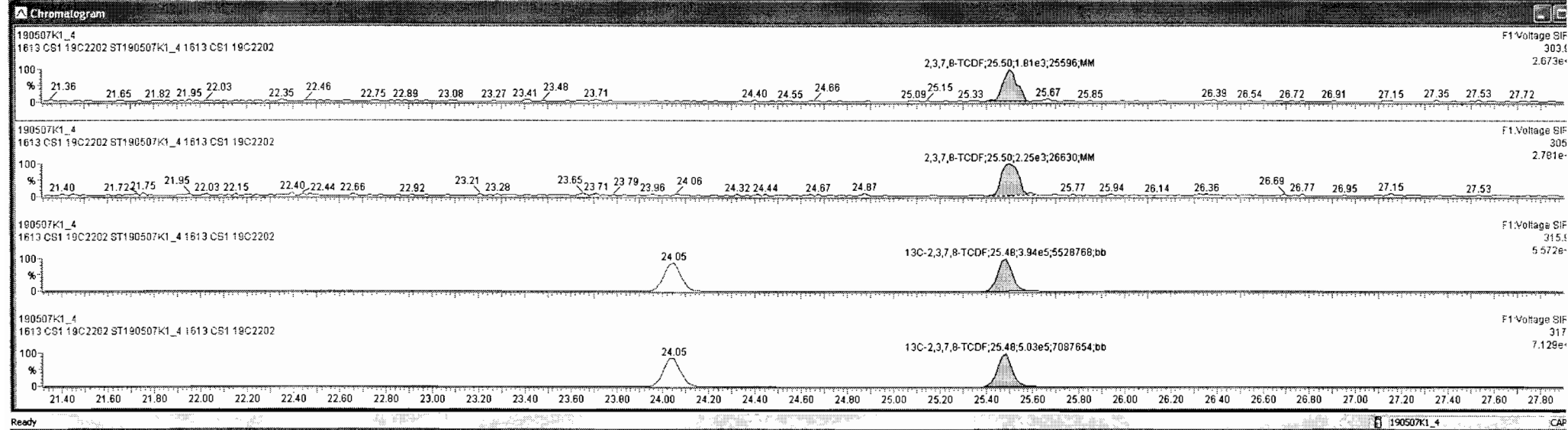


DPE1

190507K1_4



Name	Resp	RA	nY	RRF	wt/mol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0903	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0980	2.32
4 1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.46	99.1	0.118	2.46
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.16	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.38e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.84e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.85e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



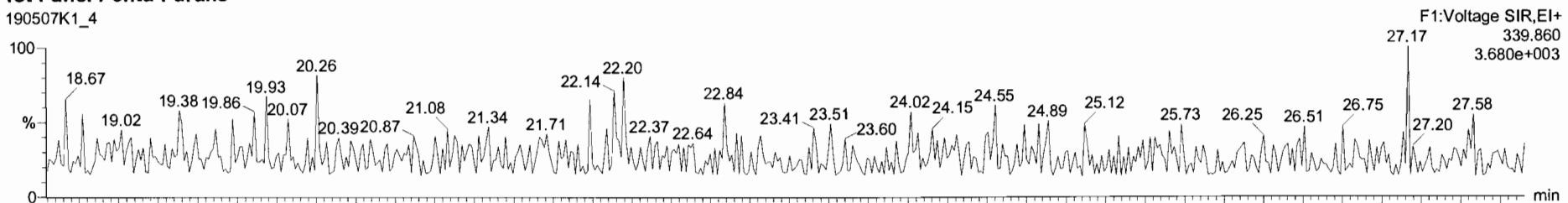
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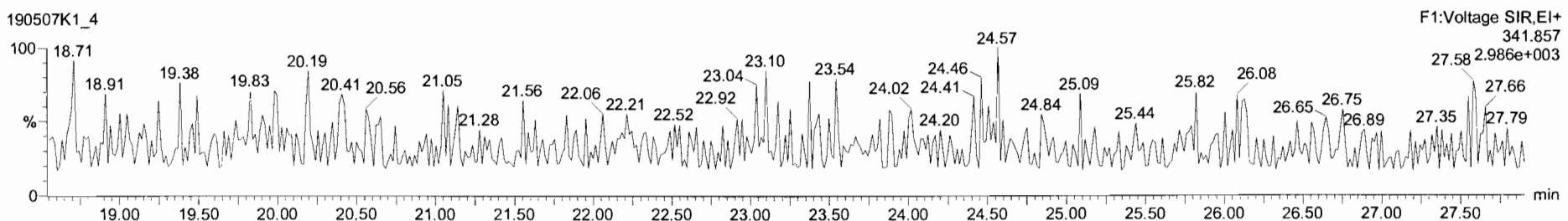
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1st Func. Penta-Furans

190507K1_4

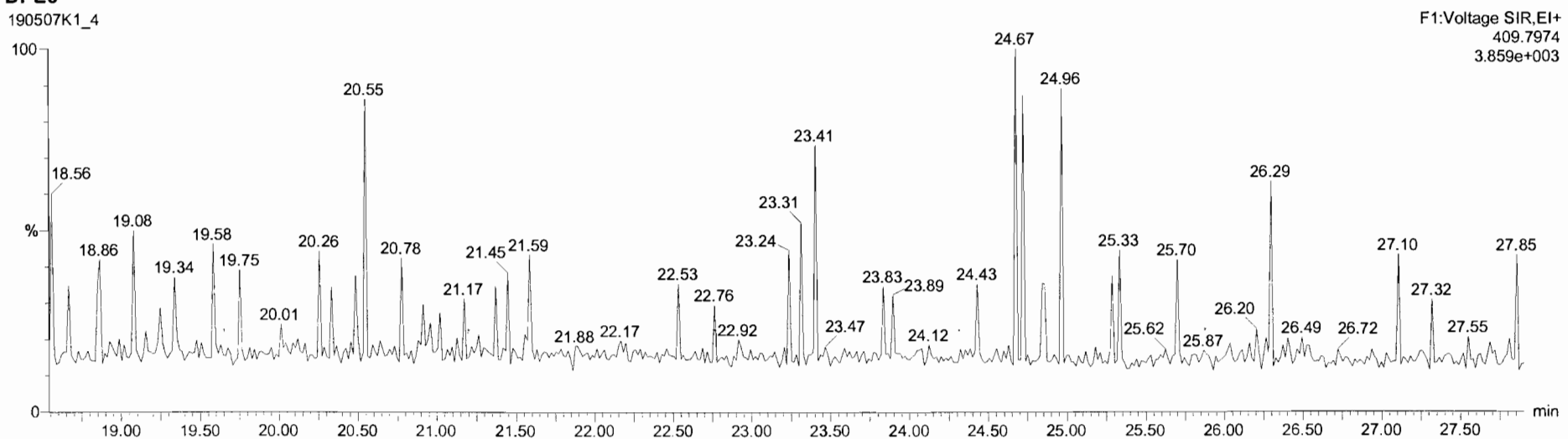


190507K1_4



DPE6

190507K1_4



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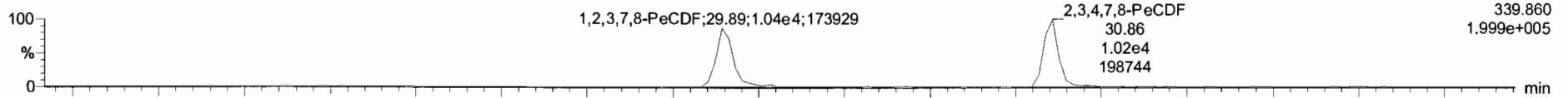
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

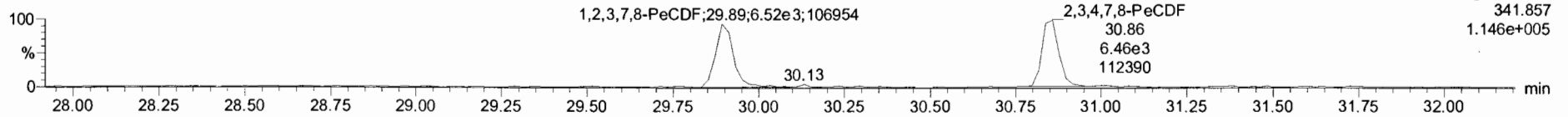
Name: 190507K1_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

1,2,3,7,8-PeCDF

190507K1_4

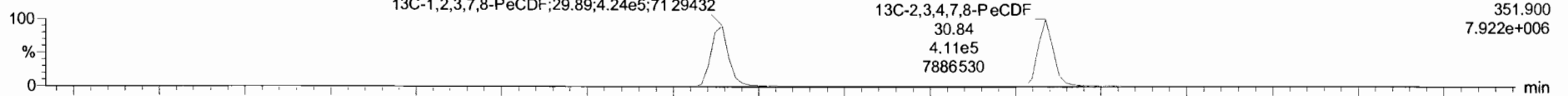


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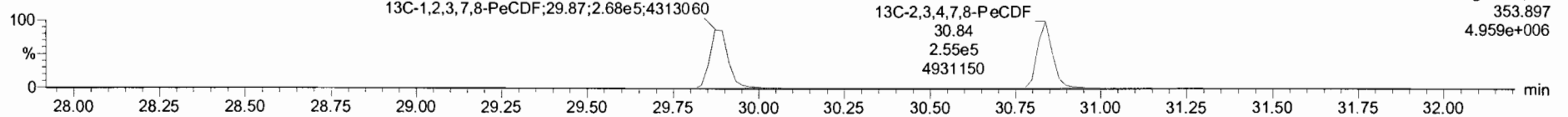


13C-1,2,3,7,8-PeCDF

190507K1_4

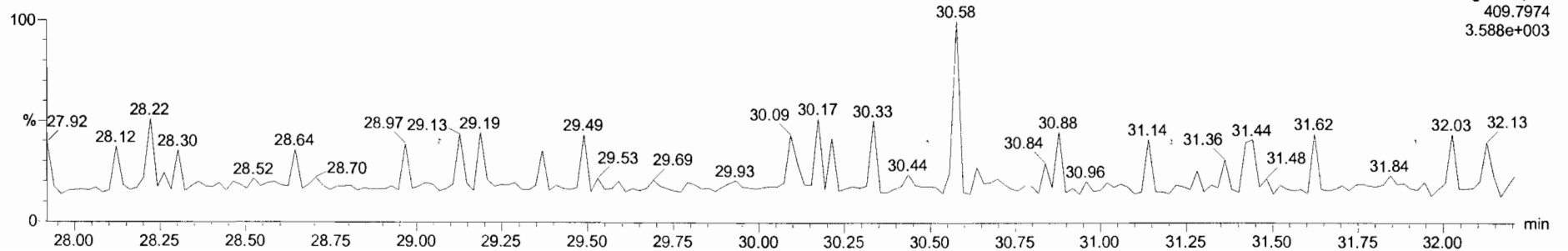


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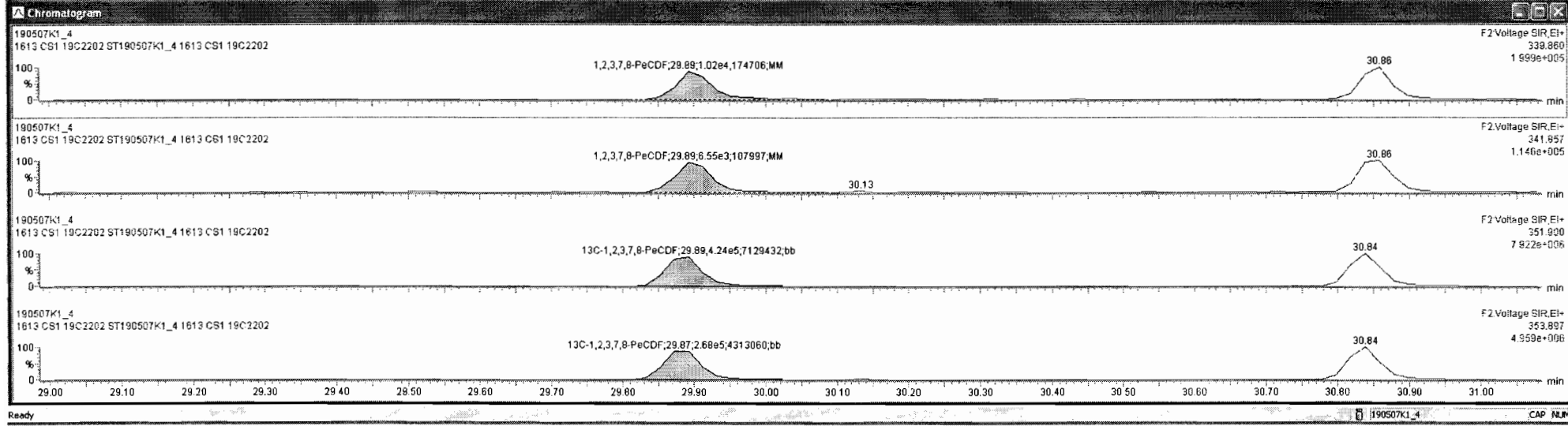
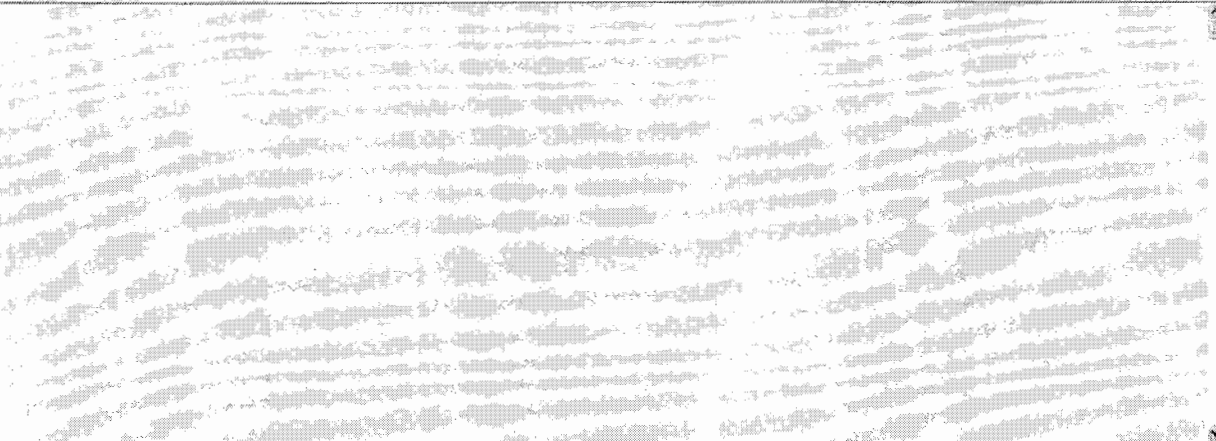
DPE2

190507K1_4



190507K1_4 - ST190507K1_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Name	Resp	RA	n/y	RRF	wi/wr	RT	RRT	Conc	%Rec	DL	EMCC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	8.85e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4 1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.26e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.87e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	98.3	0.0877	2.48
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0548	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.84e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.8	93.8	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



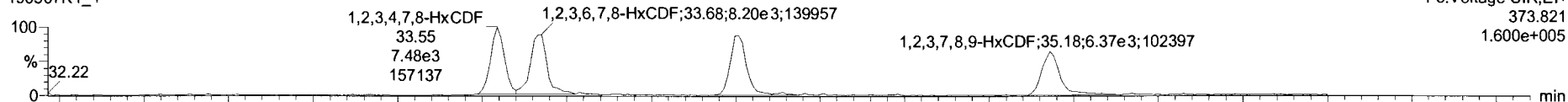
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
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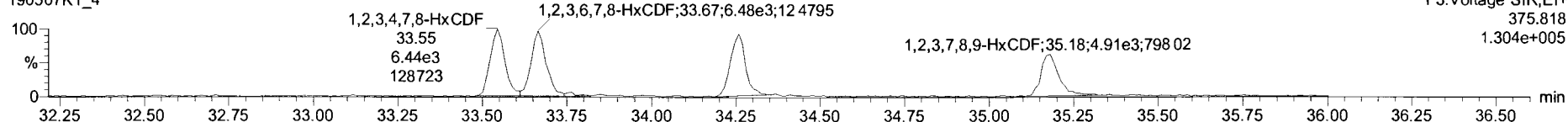
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1,2,3,4,7,8-HxCDF

190507K1_4

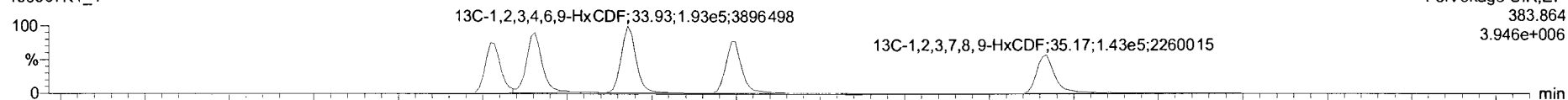


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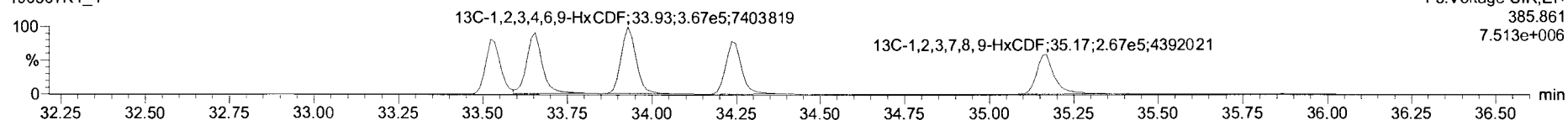


13C-1,2,3,4,7,8-HxCDF

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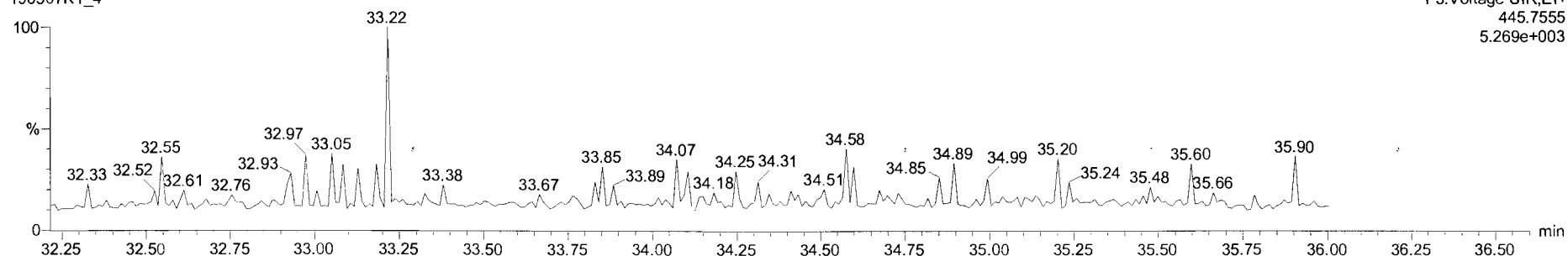


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DPE3

190507K1_4

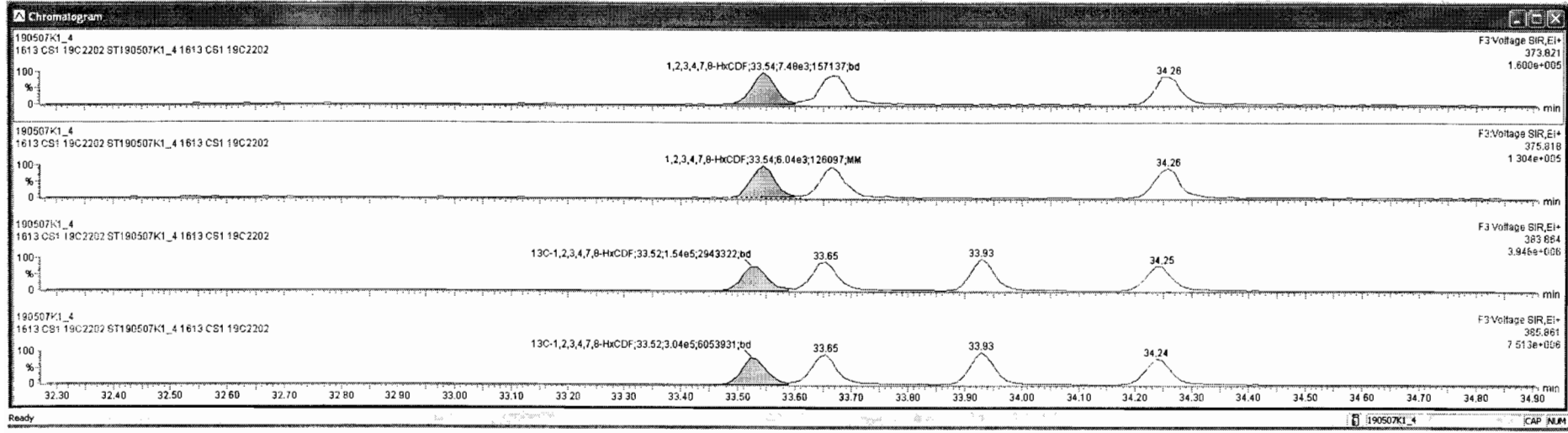


Target1.ynx - 190507K1_CRV.gld

File Edit View Display Processing Window Help

190507K1_4 - ST190507K1_4 1613 CS1 19C2202 - 1613 CS1 19C2202

KL	Name	Resp	RA	Hy	RHF	WtVol	RT	RRT	Conc	%Rec	DL	EMPG
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.26	1.001	0.513	103	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7	OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8	2,3,7,8-TCDF	4.08e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10	1,2,3,4,7,8-HxCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	1,2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HxCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.025	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	

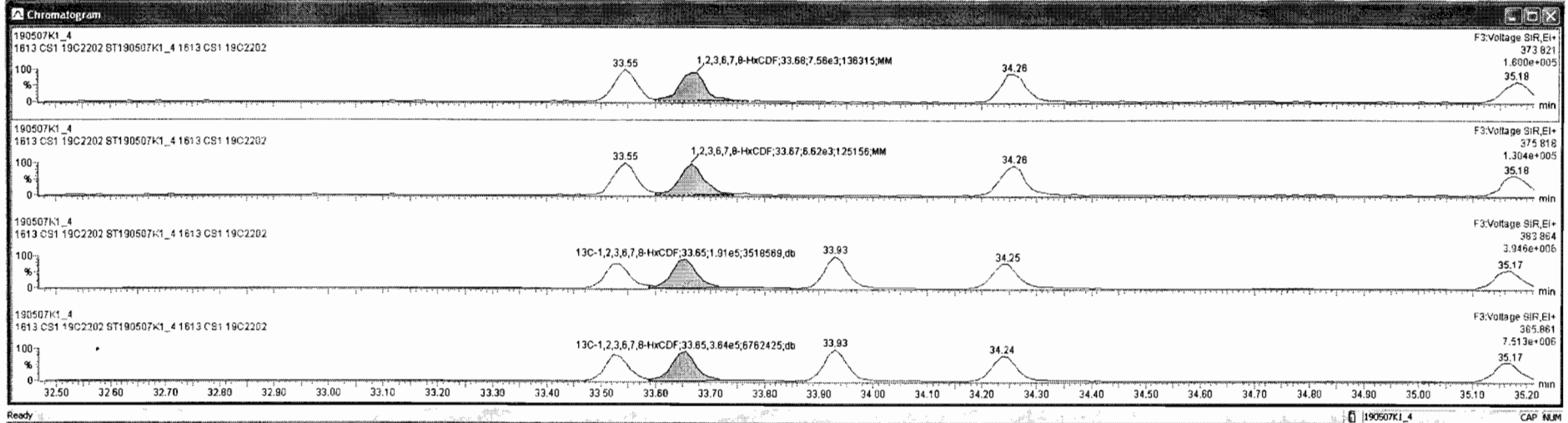


Target.ynx - 190507K1_CRV.qld

File Edit View Display Processing Window Help

190507K1_4 - ST190507K1_4 1613 CS1 19C2202 - 1613 CS1 19C2202

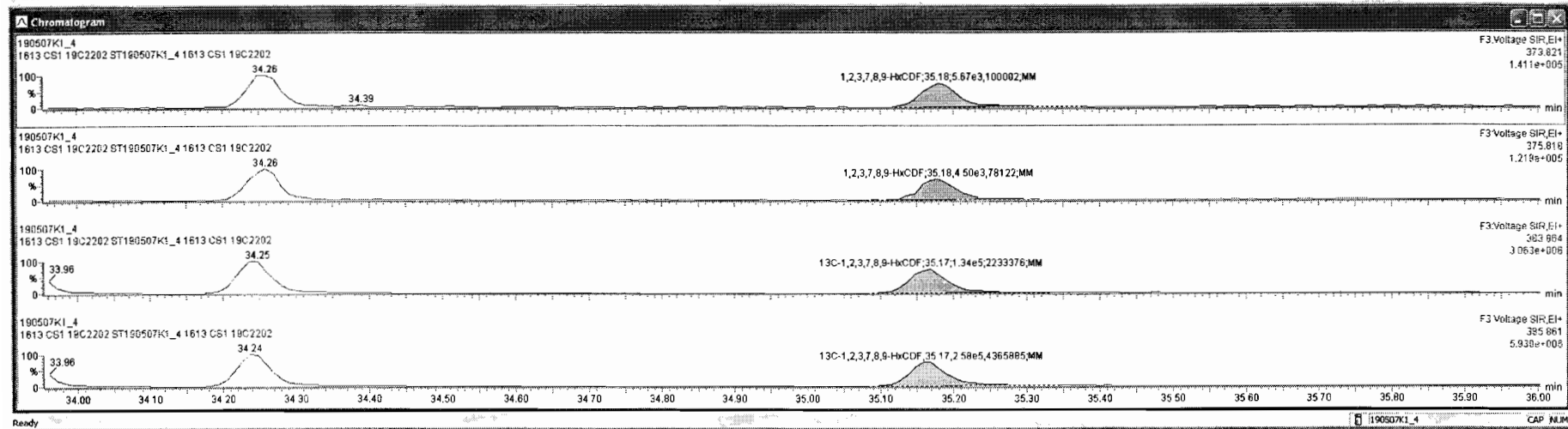
#	Name	Resp	RA	INVI	RPF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7	OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8	2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10	2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.03	1.000	33.68	1.001	2.34	93.4	0.0975	2.34
13	2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HxCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.58e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-2,3,7,8-TCDD	6.84e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.85e5	0.84	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	36.30	1.129	89.5	89.5	0.511	



TargetLynx - 190507K1_C07.gid
 File Edit View Display Processing Window Help

190507K1_4 #ST190507K1_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Peak	Name	Resp	RA	nV	RRF	WtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	28.38	1.001	0.513	100	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	100	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	100	0.102	2.55
7	OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	98.5	0.150	4.97
8	2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0877	2.48
10	2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.85	1.001	2.50	100	0.0598	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.16	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.25	NO	1.07	1.000	35.19	1.000	2.42	96.8	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.85	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.58e4	0.88	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18	13C-2,3,7,8-TCDD	6.84e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.85	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.86	1.000	34.78	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



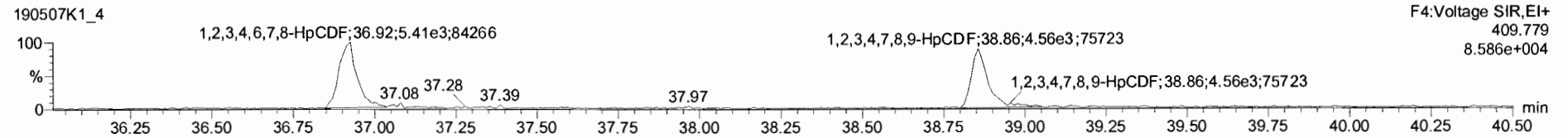
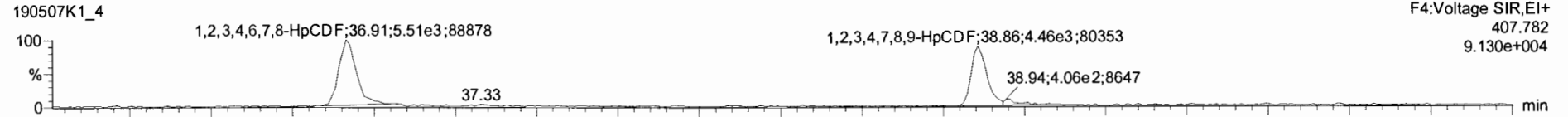
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

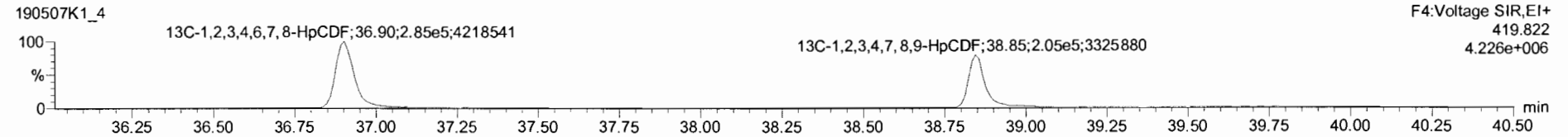
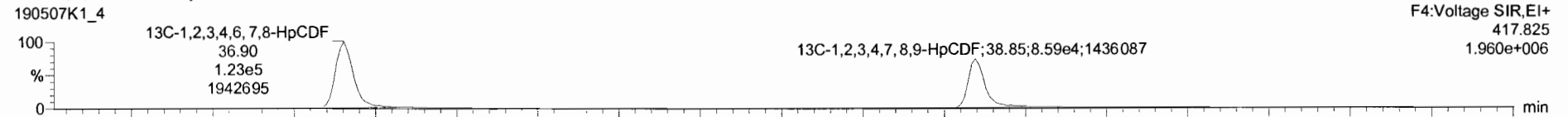
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

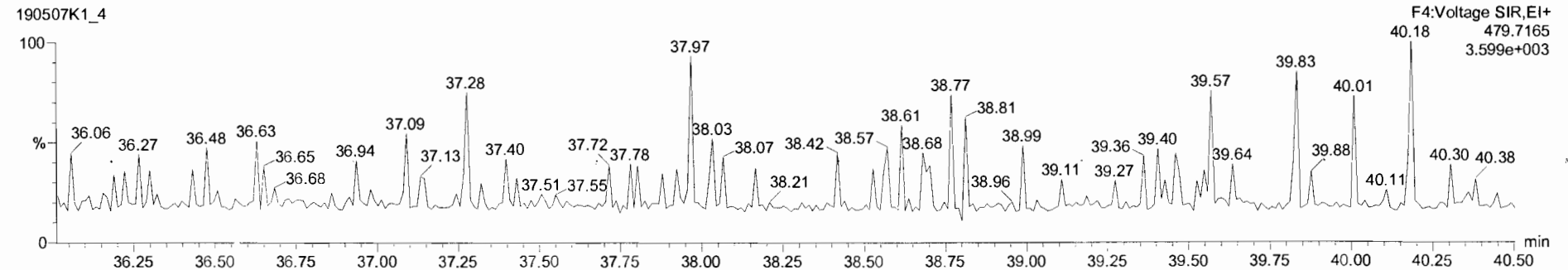
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13C-1,2,3,4,6,7,8-HpCDF



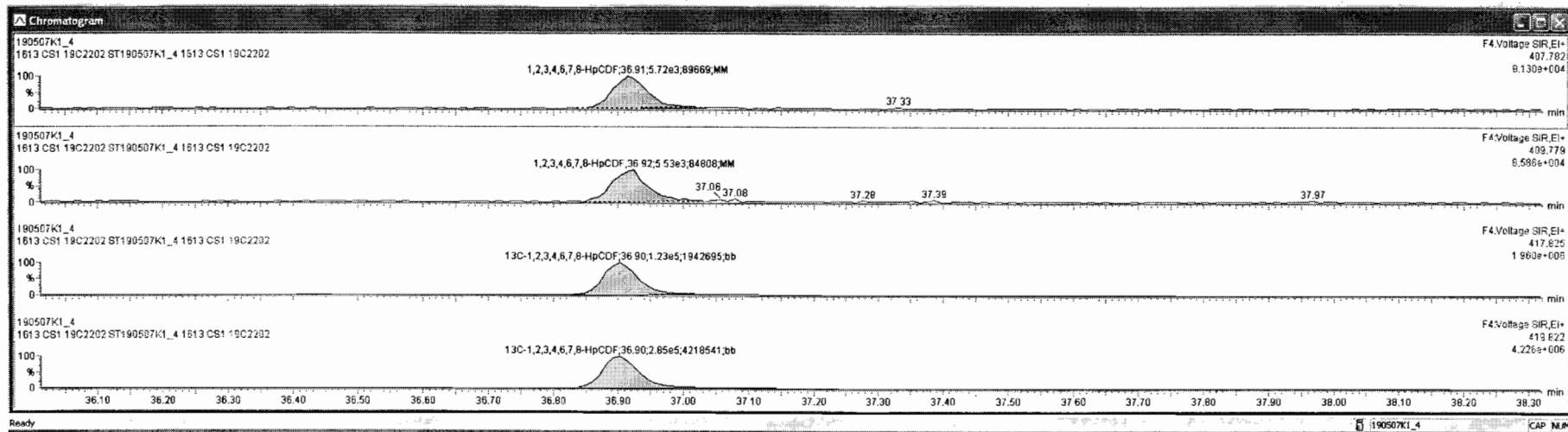
DPE4



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 File Edit View Display Processing Window Help

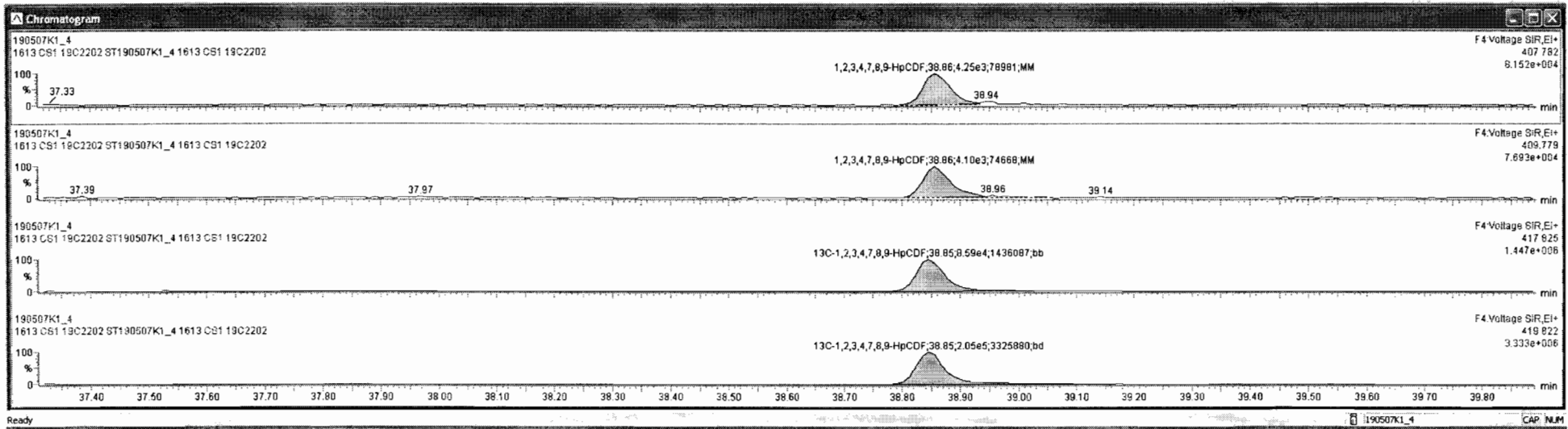
190507K1_4 - ST190507K1_4_1613 CS1 19C2202 - 1613 CS1 19C2202

Name	Resp	RA	NY	RRR	WAVG	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	8.55e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0890	2.32
4 1,2,3,6,7,8-HxCDD	8.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.26e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.36	95.1	0.0697	2.36
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0675	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.59e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.54e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19 13C-1,2,3,7,8-PeCDD	4.85e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20 13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.78	1.025	92.7	92.7	0.407	
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



190507K1_4 - ST190507K1_4 1613 CS1 19C2202 - 1613 CS1 19C2202

Name	Resp	RA	nY	RRF	wtArd	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2 1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3 1,2,3,4,7,8-HxCDD	6.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0690	2.32
4 1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5 1,2,3,7,8,9-HxCDD	8.29e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6 1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7 OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8 2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9 1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	99.3	0.0677	2.48
10 2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0598	2.50
11 1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.38	95.1	0.0897	2.38
12 1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13 2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14 1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15 1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16 1,2,3,4,7,8,9-HpCDF	8.39e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17 OCDF	1.59e4	0.89	NO	1.10	1.000	41.70	1.000	4.54	90.8	0.195	4.54
18 13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100		
19 13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1		0.391
20 13C-1,2,3,4,7,8-HxCDD	3.48e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7		0.418
21 13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6		0.348
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.28	NO	0.66	1.000	34.78	1.025	92.7	92.7		0.407
23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5		0.511

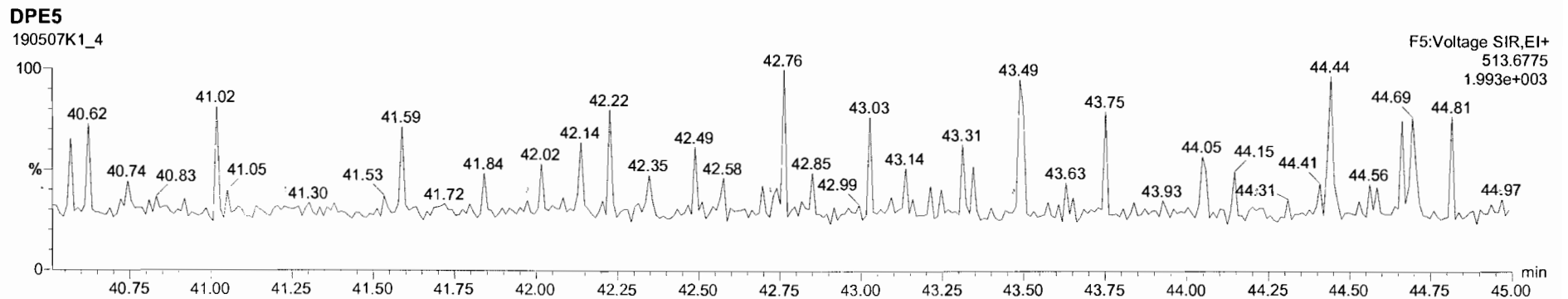
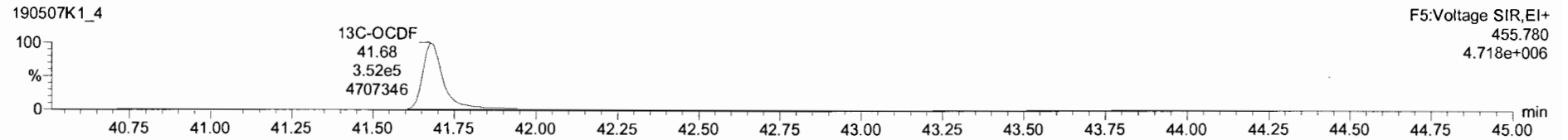
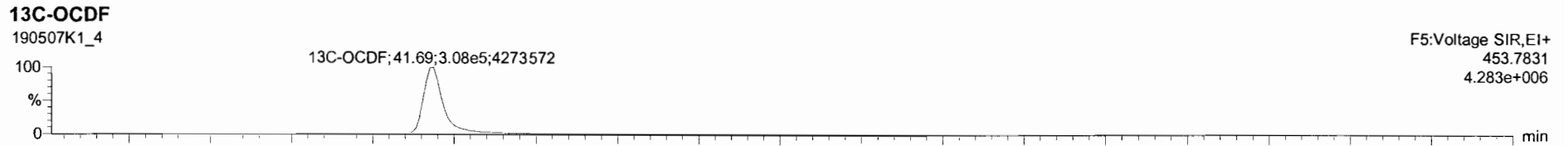
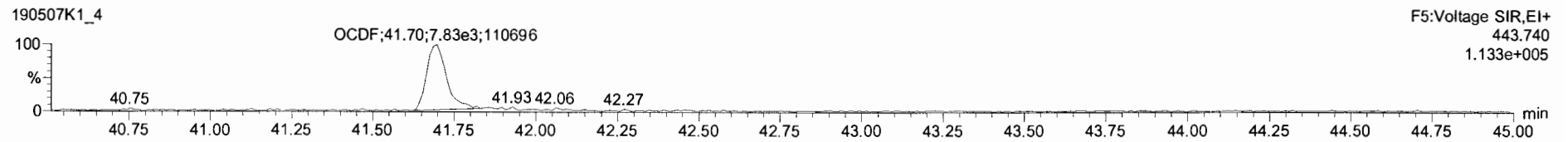
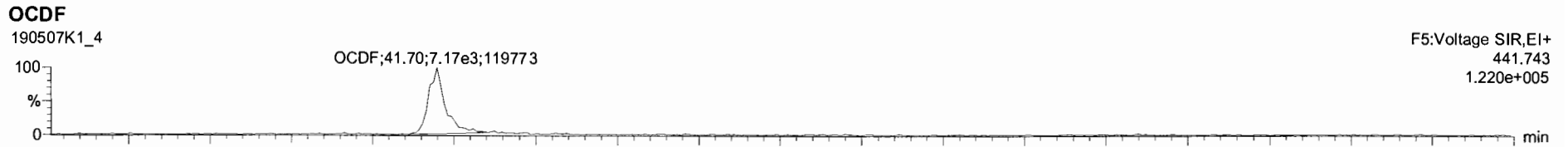


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

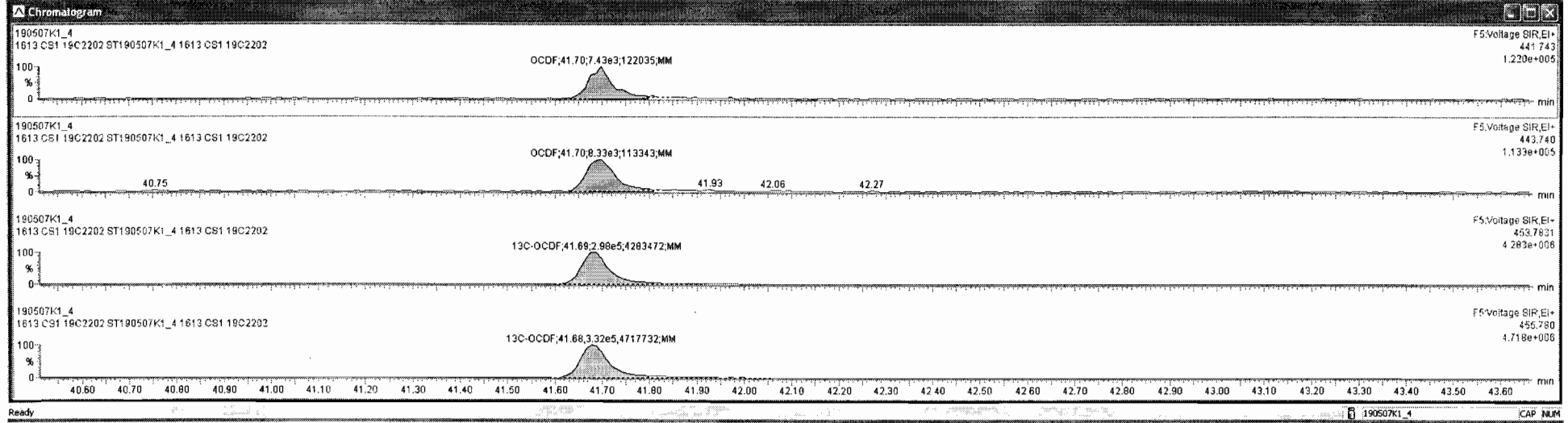
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Name: 190507K1_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202



190507K1_4 - ST190507K1_4 1613 CS1 19C2202 - 1613 CS1 19C2202

1	Name	Resp	RA	nNy	RRF	WtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.15e3	0.80	NO	0.92	1.000	26.36	1.001	0.513	103	0.0603	0.514
2	1,2,3,7,8-PeCDD	1.07e4	0.57	NO	0.90	1.000	31.14	1.001	2.54	102	0.0752	2.54
3	1,2,3,4,7,8-HxCDD	8.65e3	1.25	NO	1.07	1.000	34.41	1.000	2.32	92.6	0.0990	2.32
4	1,2,3,6,7,8-HxCDD	9.34e3	1.17	NO	0.97	1.000	34.53	1.001	2.37	94.9	0.107	2.37
5	1,2,3,7,8,9-HxCDD	8.28e3	1.22	NO	0.97	1.000	34.80	1.000	2.48	99.1	0.118	2.48
6	1,2,3,4,6,7,8-HpCDD	7.08e3	1.16	NO	1.03	1.000	38.31	1.000	2.55	102	0.102	2.55
7	OCDD	1.13e4	0.95	NO	0.97	1.000	41.46	1.000	4.97	99.5	0.150	4.97
8	2,3,7,8-TCDF	4.06e3	0.80	NO	0.94	1.000	25.50	1.001	0.482	96.4	0.0452	0.482
9	1,2,3,7,8-PeCDF	1.67e4	1.55	NO	0.97	1.000	29.89	1.000	2.48	98.3	0.0677	2.48
10	2,3,4,7,8-PeCDF	1.67e4	1.59	NO	1.00	1.000	30.86	1.001	2.50	100	0.0596	2.50
11	1,2,3,4,7,8-HxCDF	1.35e4	1.24	NO	1.24	1.000	33.54	1.001	2.36	95.1	0.0897	2.36
12	1,2,3,6,7,8-HxCDF	1.42e4	1.14	NO	1.09	1.000	33.68	1.001	2.34	93.4	0.0875	2.34
13	2,3,4,6,7,8-HxCDF	1.40e4	1.27	NO	1.18	1.000	34.26	1.000	2.43	97.3	0.0946	2.43
14	1,2,3,7,8,9-HxCDF	1.02e4	1.26	NO	1.07	1.000	35.18	1.000	2.42	96.9	0.139	2.42
15	1,2,3,4,6,7,8-HpCDF	1.12e4	1.03	NO	1.13	1.000	36.91	1.000	2.44	97.6	0.119	2.44
16	1,2,3,4,7,8,9-HpCDF	8.36e3	1.04	NO	1.26	1.000	38.86	1.000	2.28	91.4	0.141	2.28
17	OCDF	1.56e4	0.88	NO	1.10	1.000	41.70	1.000	4.54	90.6	0.195	4.54
18	13C-2,3,7,8-TCDD	6.64e5	0.78	NO	1.05	1.000	26.33	1.026	100	100	0.249	
19	13C-1,2,3,7,8-PeCDD	4.65e5	0.64	NO	0.74	1.000	31.12	1.212	99.1	99.1	0.331	
20	13C-1,2,3,4,7,8-HxCDD	3.49e5	1.31	NO	0.65	1.000	34.40	1.014	96.7	96.7	0.418	
21	13C-1,2,3,6,7,8-HxCDD	4.07e5	1.28	NO	0.78	1.000	34.51	1.017	93.6	93.6	0.348	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.26	NO	0.66	1.000	34.79	1.025	92.7	92.7	0.407	
23	13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.06	NO	0.54	1.000	38.30	1.129	89.5	89.5	0.511	



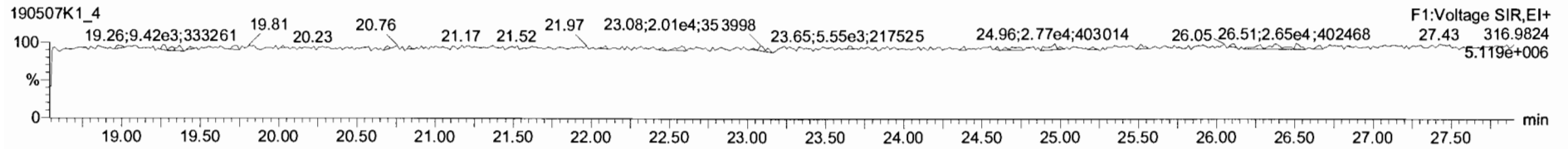
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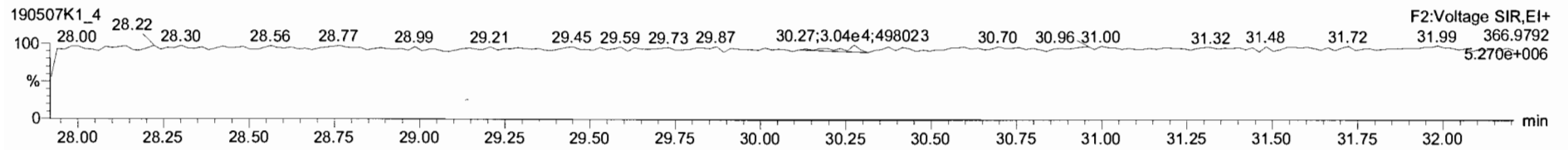
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Name: 190507K1_4, Date: 07-May-2019, Time: 13:04:59, ID: ST190507K1_4 1613 CS1 19C2202, Description: 1613 CS1 19C2202

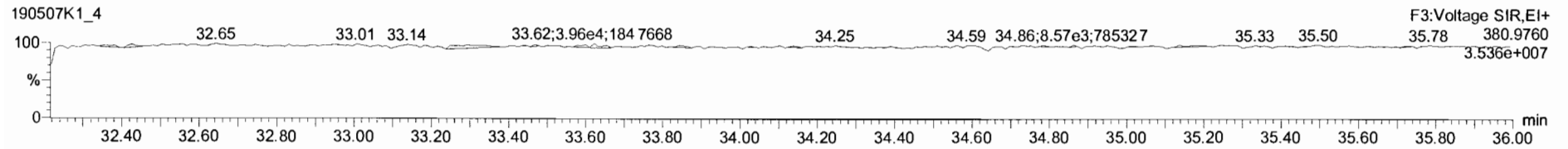
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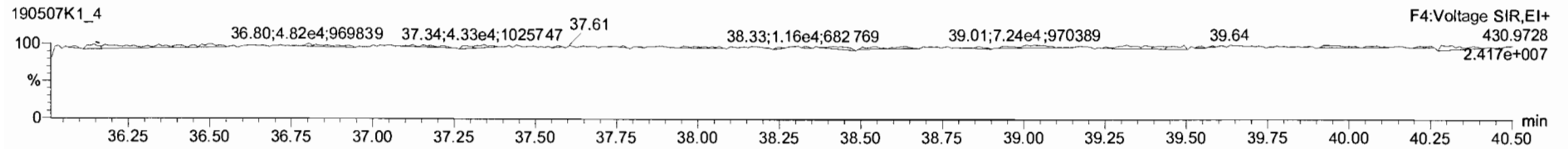
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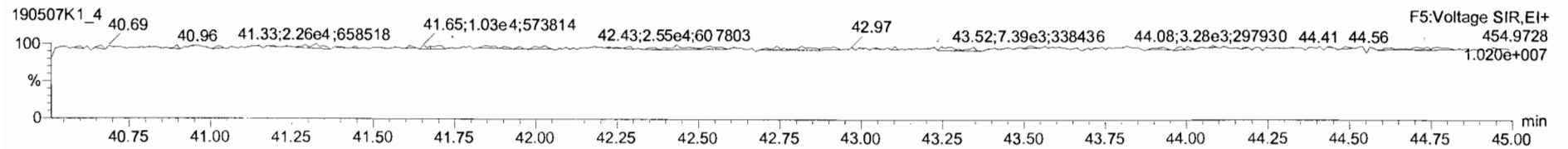
PFK3



PFK4



PFK5



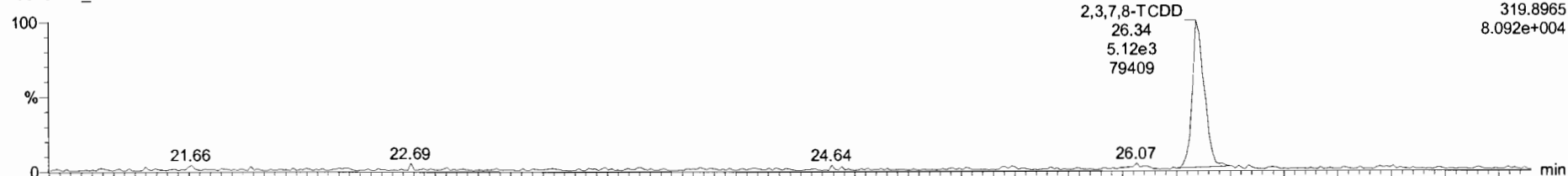
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

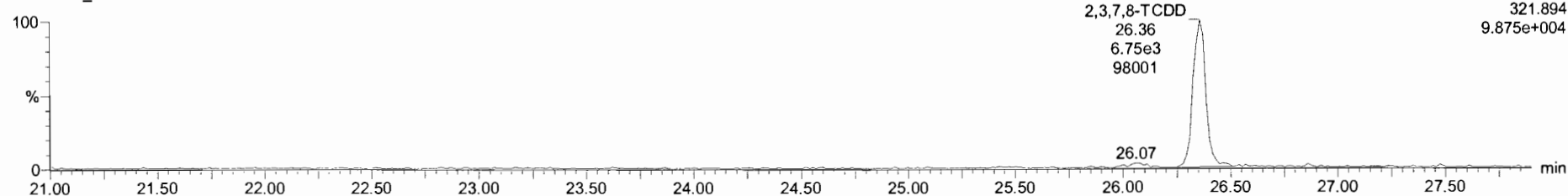
2,3,7,8-TCDD

190507K1_5



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319.8965
8.092e+004

190507K1_5



F1:Voltage SIR,EI+
321.894
9.875e+004

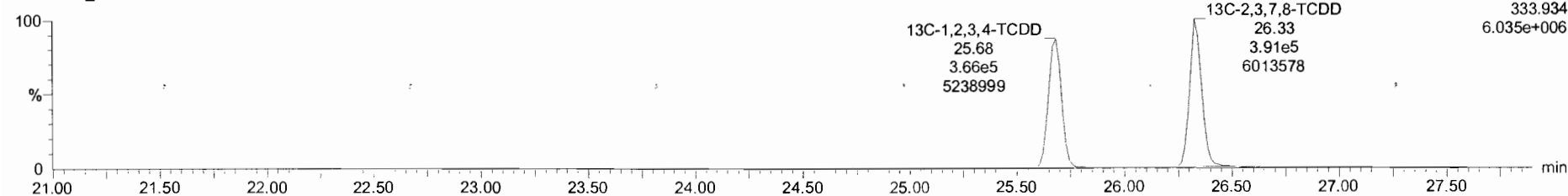
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190507K1_5



F1:Voltage SIR,EI+
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4.700e+006

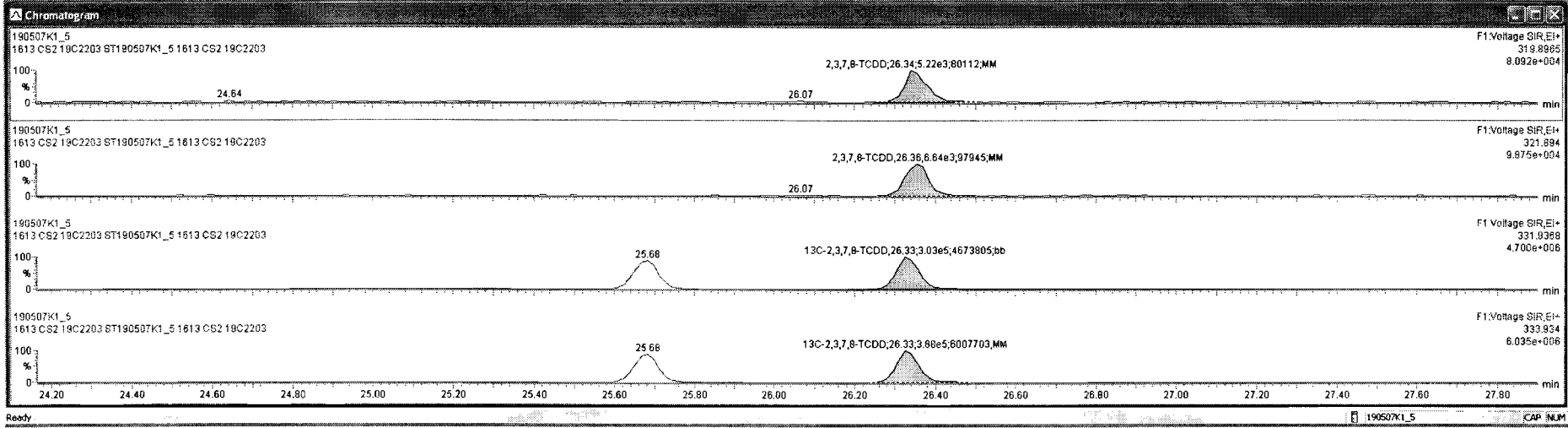
190507K1_5



F1:Voltage SIR,EI+
333.934
6.035e+006

190507K1_5 - ST190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	NY	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.00	26.34	1.001	1.85	92.7	0.0542	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.00	31.14	1.001	9.78	97.9	0.0751	9.78
3 1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.00	34.41	1.000	9.82	98.2	0.101	9.82
4 1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.00	34.52	1.000	9.99	99.9	0.101	9.99
5 1,2,3,7,8,9-HxCDD	3.85e4	1.22	NO	0.97	1.00	34.80	1.000	9.56	95.6	0.115	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.00	38.31	1.000	9.56	95.6	0.144	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.00	41.47	1.000	19.2	95.8	0.204	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.00	25.50	1.001	1.97	98.3	0.0457	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.85	NO	0.97	1.00	29.89	1.000	9.88	98.8	0.0670	9.88
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.00	30.86	1.001	9.42	94.2	0.0598	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.00	33.54	1.001	9.96	99.6	0.127	9.96
12 1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.00	33.67	1.000	9.99	99.9	0.133	9.99
13 2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.00	34.26	1.001	9.67	96.7	0.136	9.66
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.00	35.18	1.000	10.1	101	0.218	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.00	36.91	1.000	9.80	98.0	0.161	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.00	38.86	1.000	9.02	90.2	0.189	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.00	41.69	1.000	17.2	96.1	0.218	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.00	26.33	1.025	99.9	99.9	0.195	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.00	31.12	1.212	96.5	96.5	0.310	
20 13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.85	1.00	34.40	1.014	99.7	99.7	0.476	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.00	34.51	1.017	96.7	96.7	0.396	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.88	1.00	34.78	1.025	103	103	0.484	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.00	38.30	1.129	98.2	98.2	0.458	



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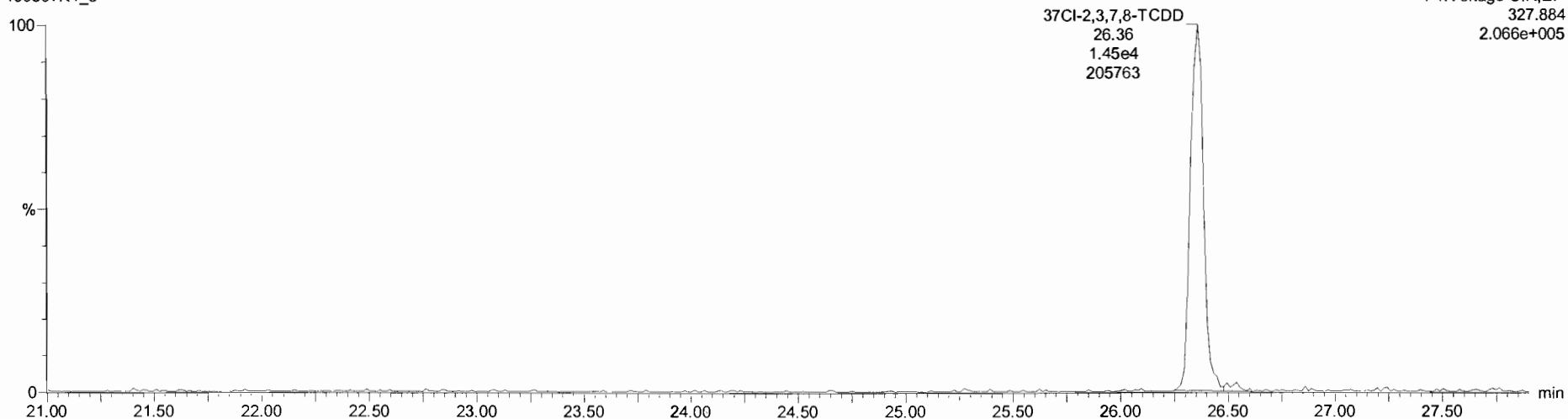
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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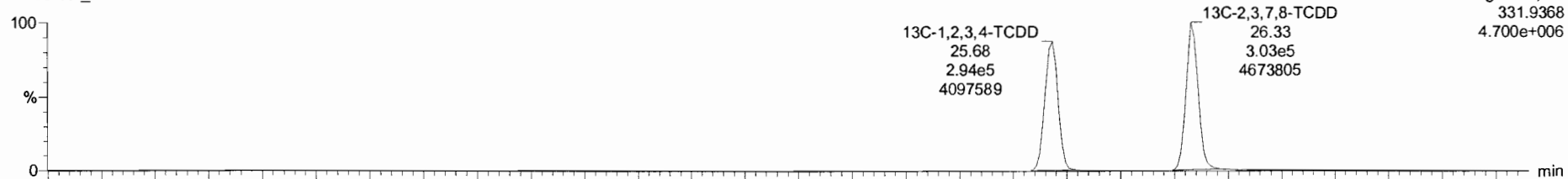
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190507K1_5

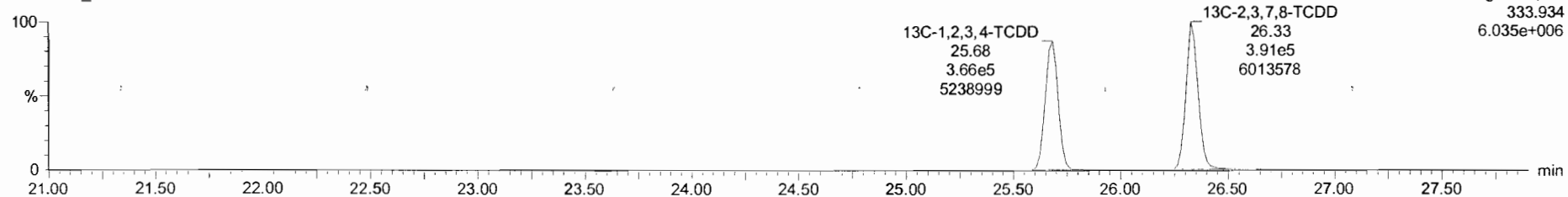


13C-1,2,3,4-TCDD

190507K1_5



190507K1_5



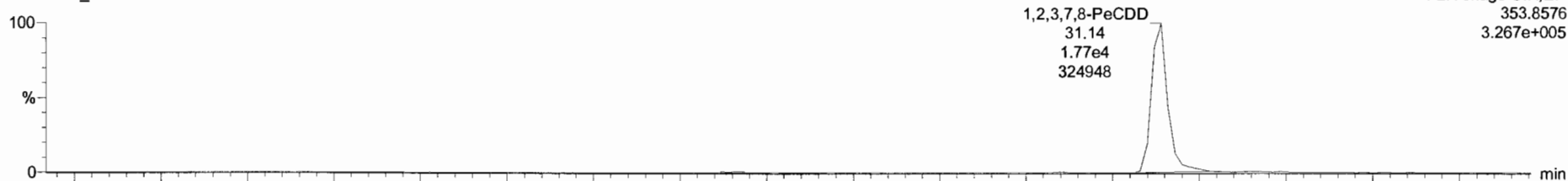
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

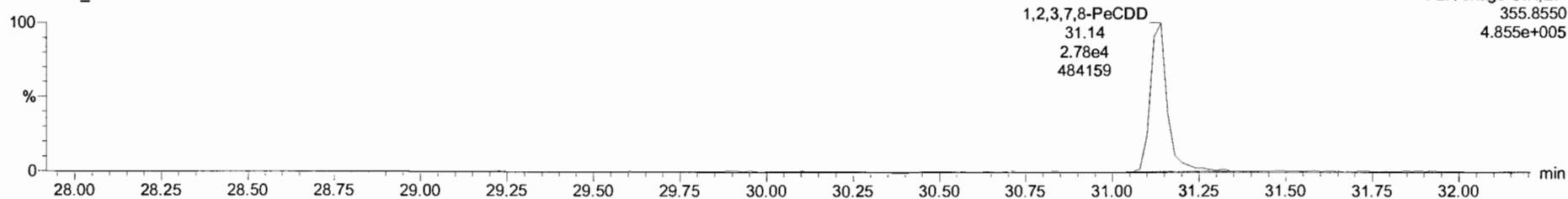
1,2,3,7,8-PeCDD

190507K1_5



F2:Voltage SIR,EI+
353.8576
3.267e+005

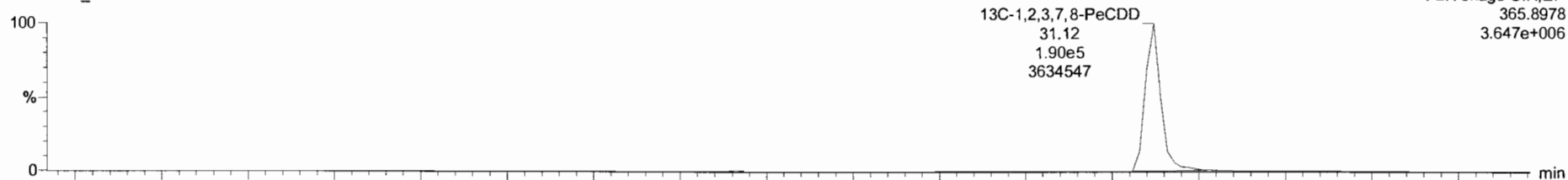
190507K1_5



F2:Voltage SIR,EI+
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4.855e+005

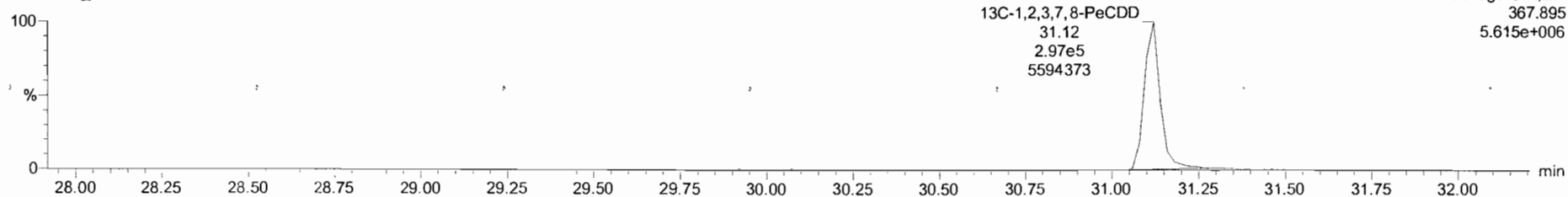
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190507K1_5



F2:Voltage SIR,EI+
365.8978
3.647e+006

190507K1_5



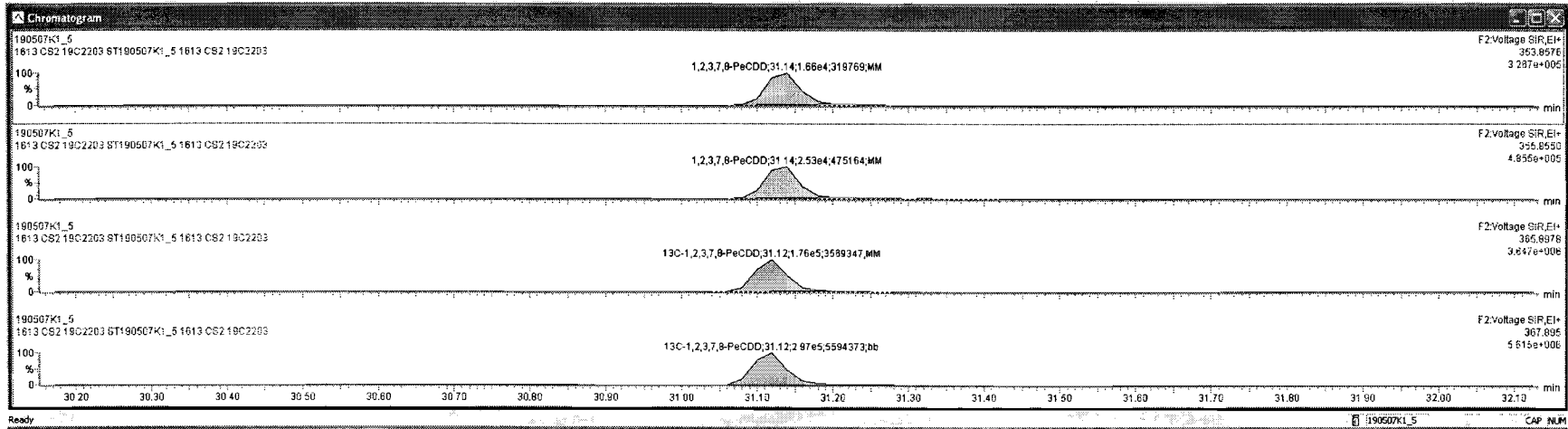
F2:Voltage SIR,EI+
367.895
5.615e+006

Target1.yqx - 190507K1-CRV.qld

File Edit View Display Processing Window Help

190507K1_5-ST190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

#	Name	Resp	RA	rvj	RPF	wfvol	RT	RRT	Conc	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0542	1.85
2	1,2,3,7,8-PeCDD	4.16e4	0.66	NO	0.96	1.000	31.34	1.001	9.79	97.9	0.0251	0.78
3	1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.101	9.82
4	1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.101	9.99
5	1,2,3,7,8,9-HxCDD	3.85e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.115	9.56
6	1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.144	9.56
7	OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.204	19.2
8	2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	99.3	0.0457	1.97
9	1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.89	99.6	0.0670	9.89
10	2,3,4,7,8-PeCDF	6.92e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0559	9.42
11	1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.127	9.96
12	1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.000	33.67	1.003	9.99	99.9	0.133	9.99
13	2,3,4,6,7,8-HxCDF	5.78e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.136	9.66
14	1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.219	10.1
15	1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.181	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.92	99.2	0.169	9.92
17	OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.002	17.2	86.1	0.218	17.2
18	13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.195	
19	13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.210	
20	13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.476	
21	13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.396	
22	13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.464	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.456	



Dataset: Untitled

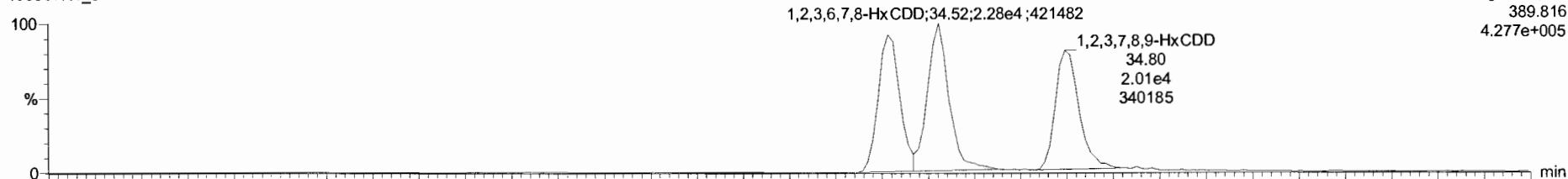
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

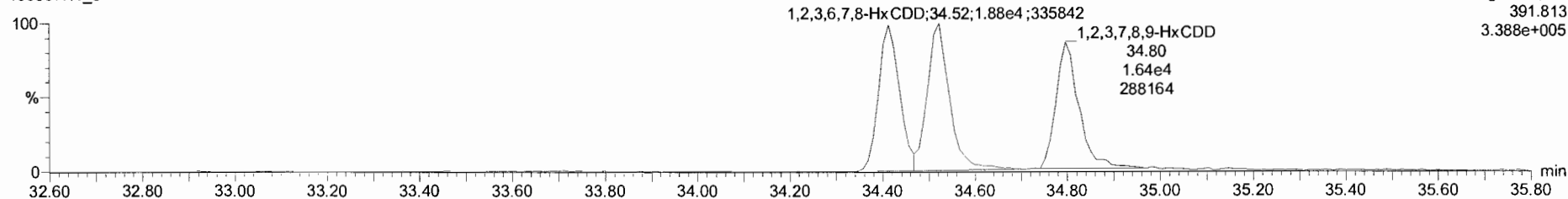
Name: 190507K1_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

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

190507K1_5

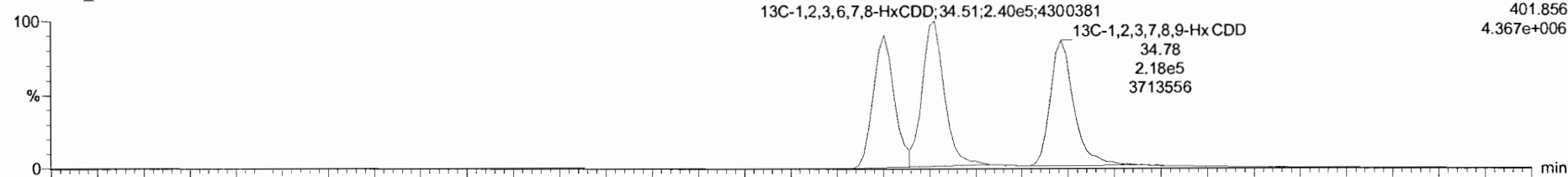


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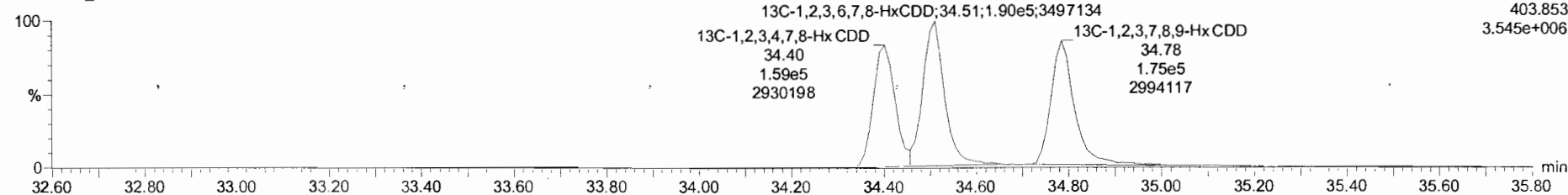


13C-1,2,3,4,7,8-HxCDD

190507K1_5



190507K1_5

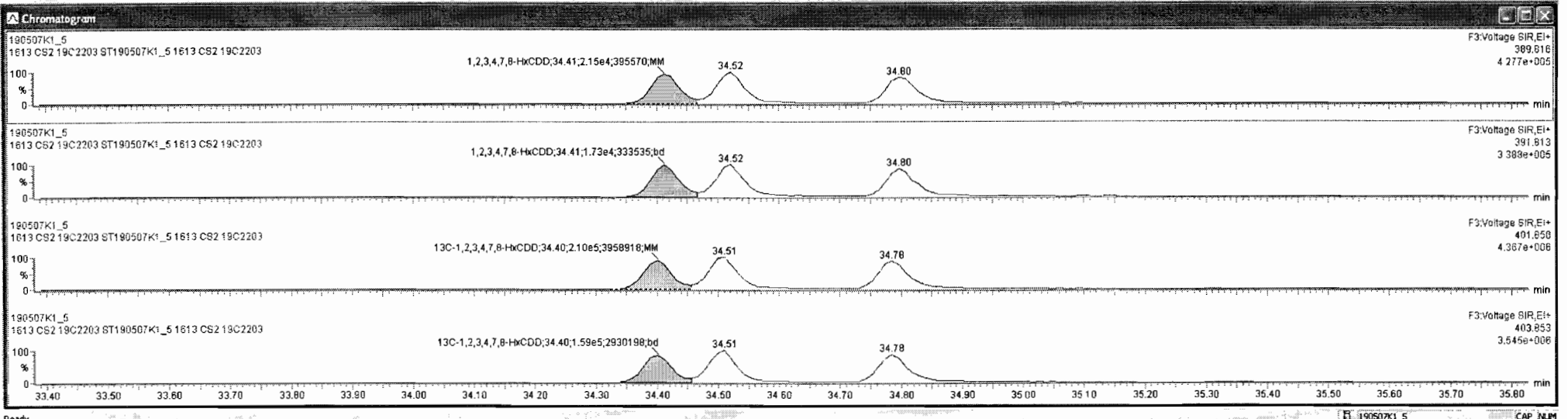


Target1.ymx - 190507K1.CRV.qld

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190507K1_5 - ST190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0542	1.85
2	1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0751	9.78
3	1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.101	9.82
4	1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.101	9.99
5	1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.115	9.56
6	1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.144	9.56
7	OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.204	19.2
8	2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0457	1.97
9	1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0670	9.88
10	2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.85	1.001	9.42	94.2	0.0558	9.42
11	1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.98	99.6	0.127	9.98
12	1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.000	33.67	1.000	9.99	99.9	0.133	9.99
13	2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.136	9.66
14	1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.218	10.1
15	1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.161	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.169	9.02
17	OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.000	17.2	96.1	0.218	17.2
18	13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.195	
19	13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.310	
20	13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.85	1.000	34.40	1.014	99.7	99.7	0.476	
21	13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.396	
22	13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.86	1.000	34.78	1.025	103	103	0.464	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.456	



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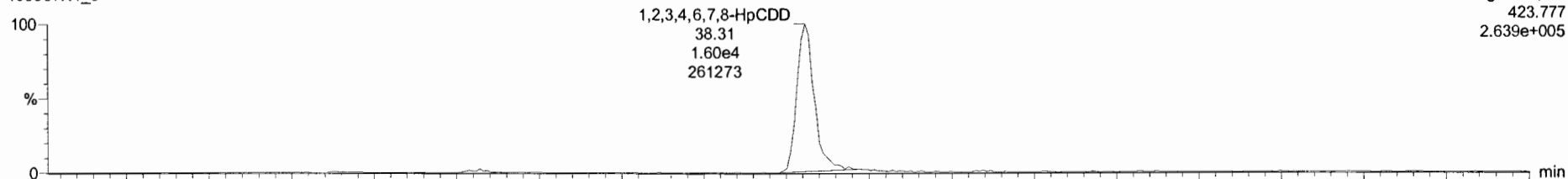
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

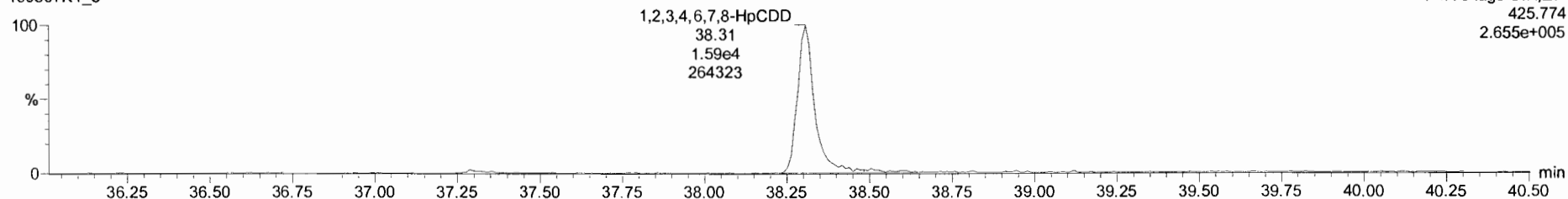
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1,2,3,4,6,7,8-HpCDD

190507K1_5

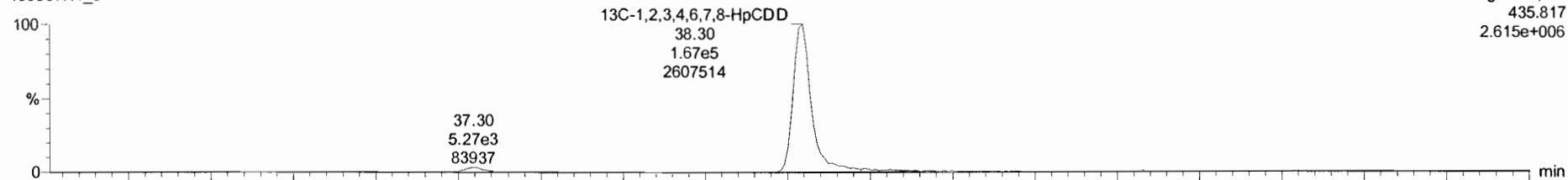


190507K1_5

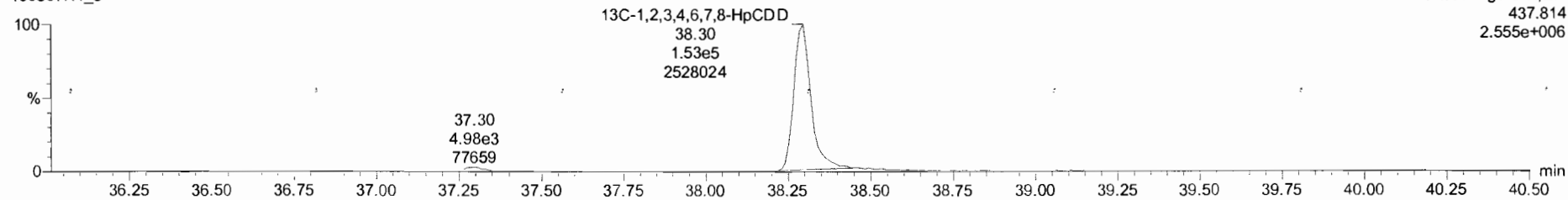


13C-1,2,3,4,6,7,8-HpCDD

190507K1_5



190507K1_5

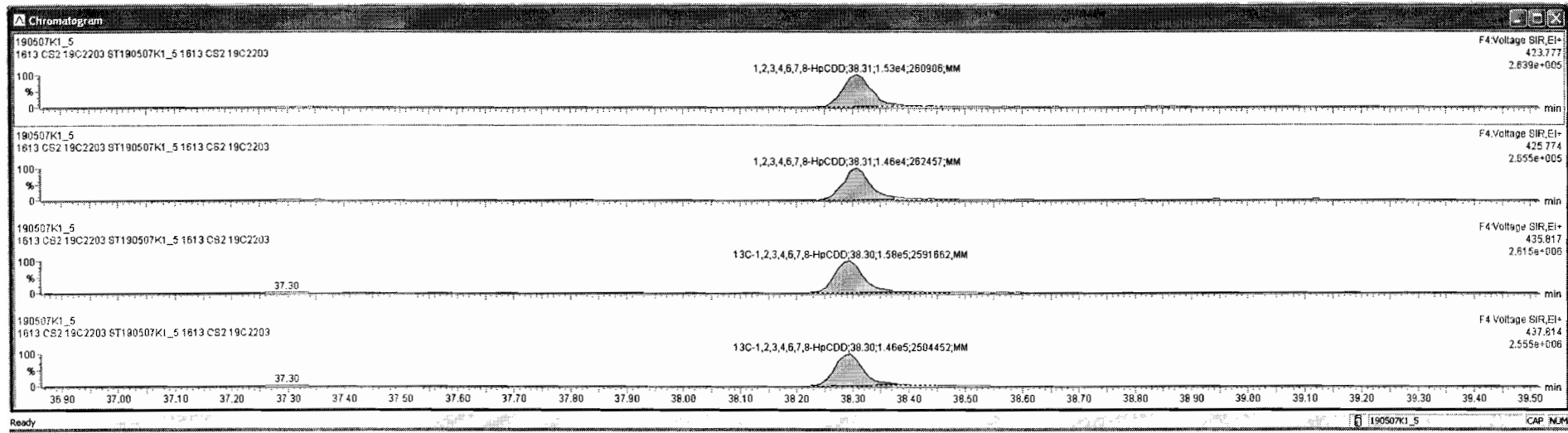


TargetLynx - 190507K1.CRV.qld

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190507K1_5 - ST190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

#	Name	Resp	PA	nV	RRF	wtVol	RT	RR1	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.19e4	0.78	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0542	1.85
2	1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0751	9.78
3	1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.101	9.82
4	1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.101	9.99
5	1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.60	1.000	9.56	95.6	0.115	9.56
6	1,2,3,4,6,7,8-HpCDD	2.28e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.144	9.56
7	OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.9	0.204	19.2
8	2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0457	1.97
9	1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0670	9.88
10	2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0559	9.42
11	1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.127	9.96
12	1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.000	33.67	1.000	9.99	99.9	0.133	9.99
13	2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.136	9.66
14	1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.218	10.1
15	1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.21	1.000	9.80	98.0	0.161	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.169	9.02
17	OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.000	17.2	86.1	0.218	17.2
18	13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.195	
19	13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.310	
20	13C-1,2,3,4,7,8-HxCDD	3.89e5	1.32	NO	0.85	1.000	34.40	1.014	99.7	99.7	0.476	
21	13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.396	
22	13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.464	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.456	



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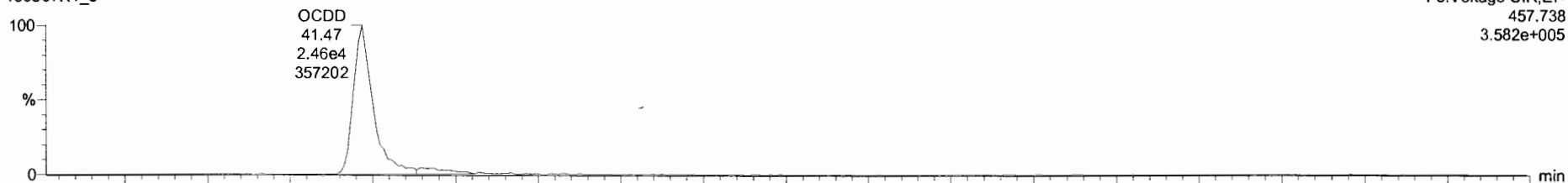
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

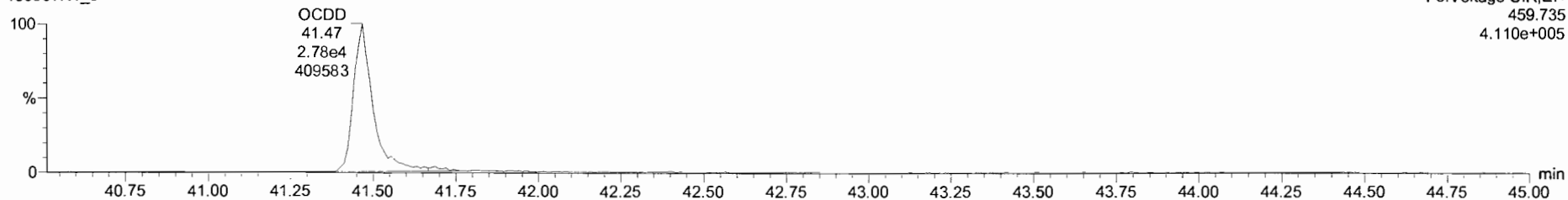
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OCDD

190507K1_5

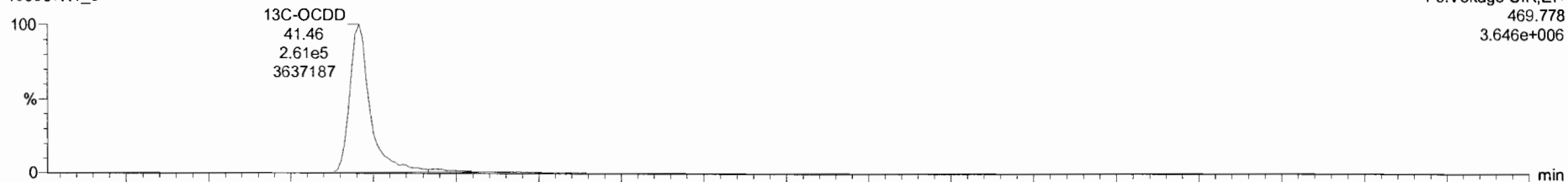


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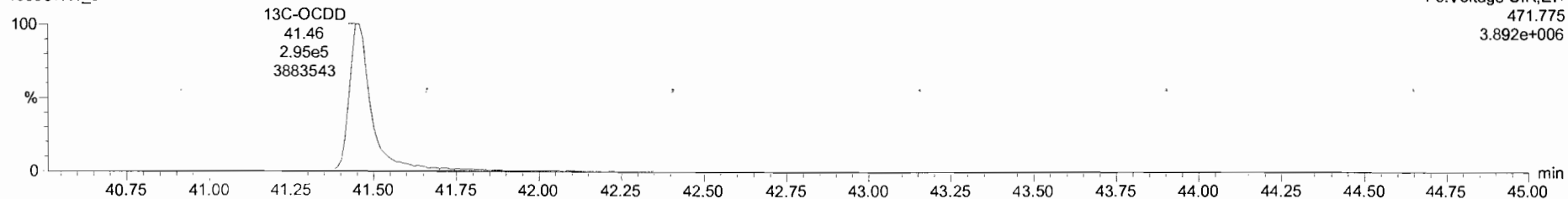


13C-OCDD

190507K1_5

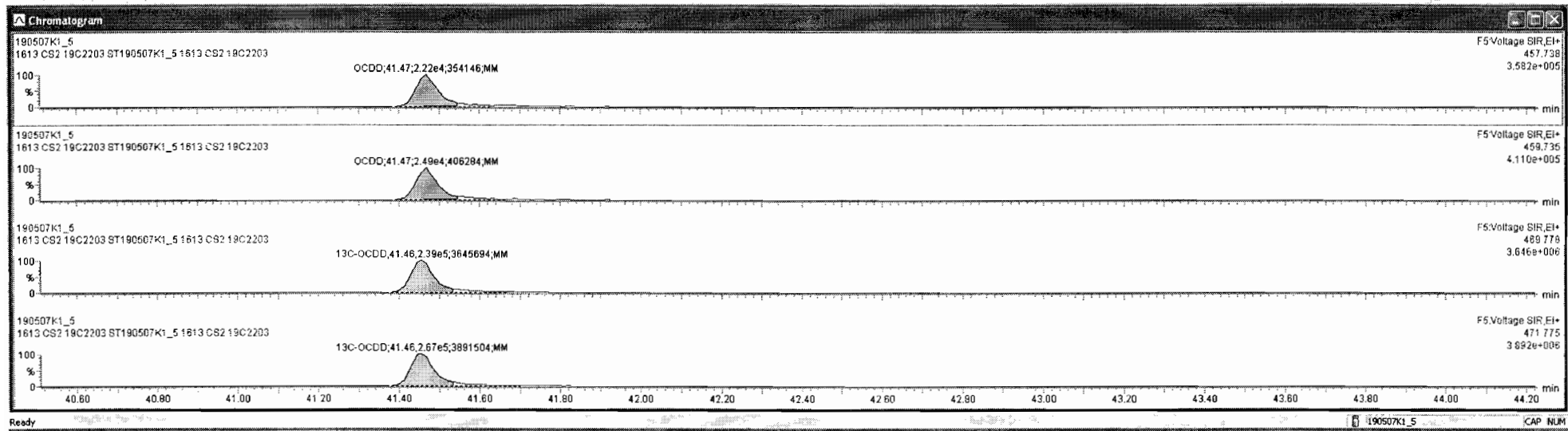


190507K1_5



190507K1_5 - ST190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	NY	RF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0542	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0751	9.78
3 1,2,3,4,7,8-HxCDD	3.69e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.101	9.82
4 1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.101	9.99
5 1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.115	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.144	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.204	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0457	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.86	98.6	0.0670	9.86
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0558	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.127	9.96
12 1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.000	33.67	1.000	9.99	99.9	0.133	9.99
13 2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.136	9.66
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.218	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.181	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.169	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.000	41.89	1.000	17.2	86.1	0.218	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.195	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.310	
20 13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.476	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.396	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.464	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	99.2	99.2	0.456	



Dataset: Untitled

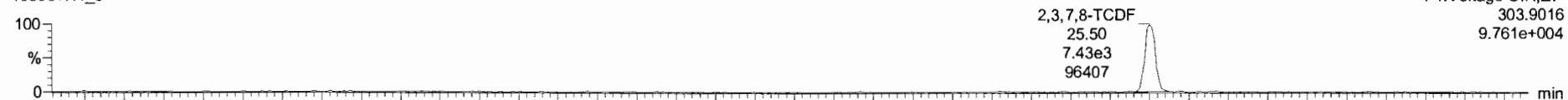
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

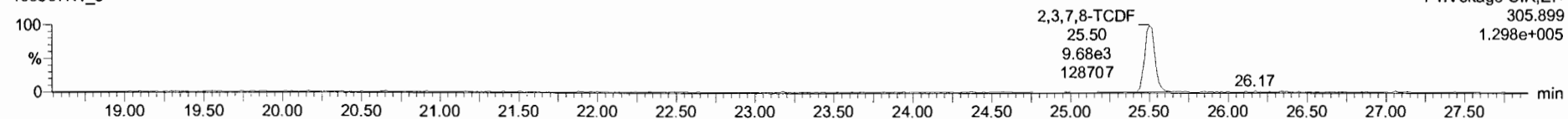
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2,3,7,8-TCDF

190507K1_5

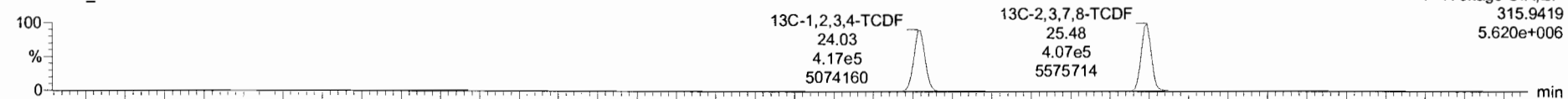


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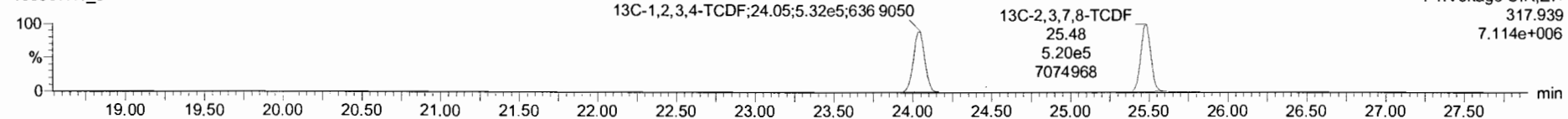


13C-2,3,7,8-TCDF

190507K1_5

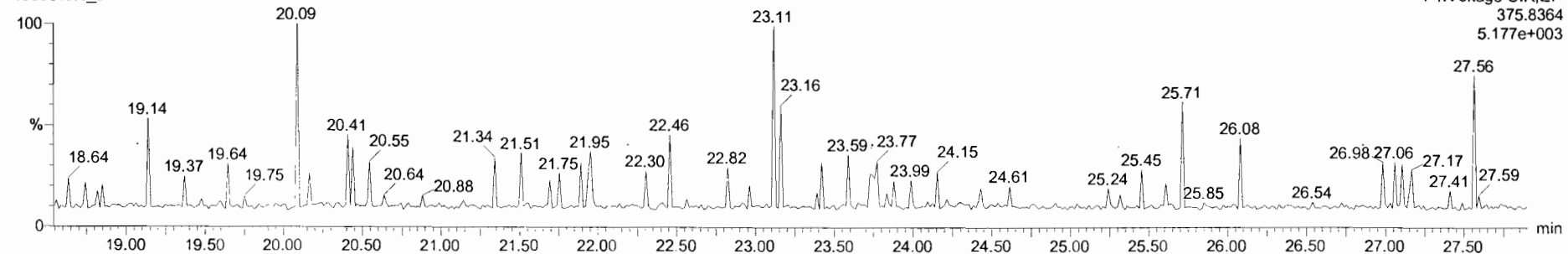


190507K1_5



DPE1

190507K1_5



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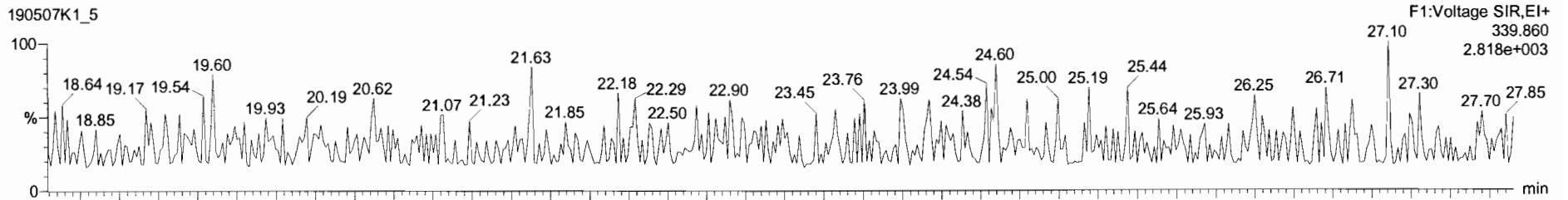
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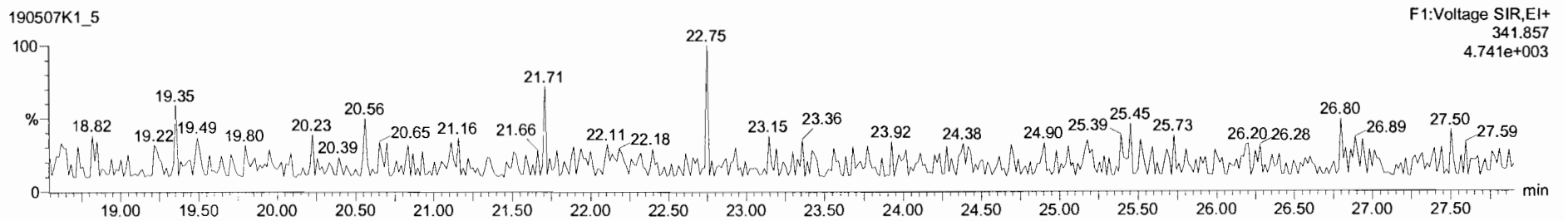
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1st Func. Penta-Furans

190507K1_5

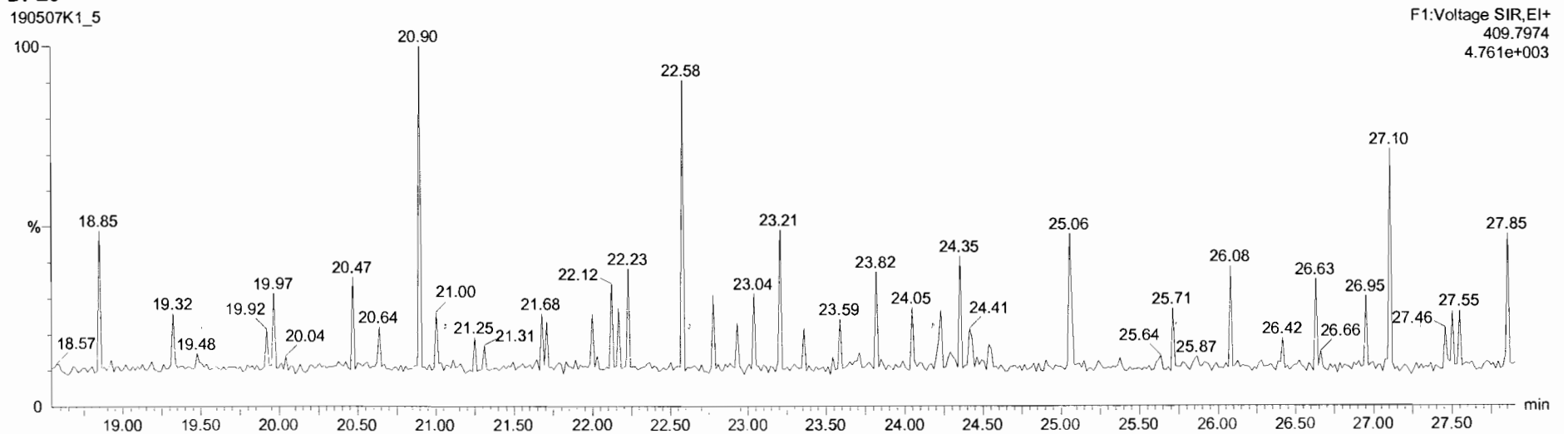


190507K1_5



DPE6

190507K1_5



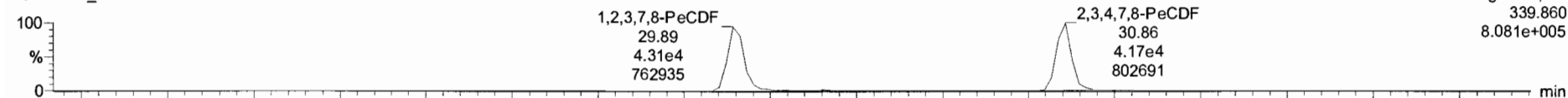
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

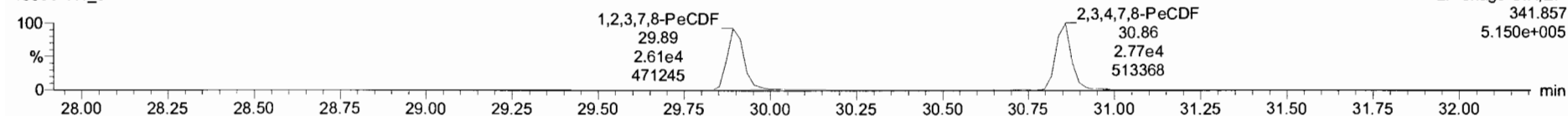
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1,2,3,7,8-PeCDF

190507K1_5

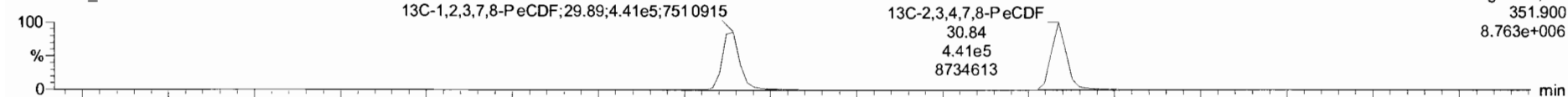


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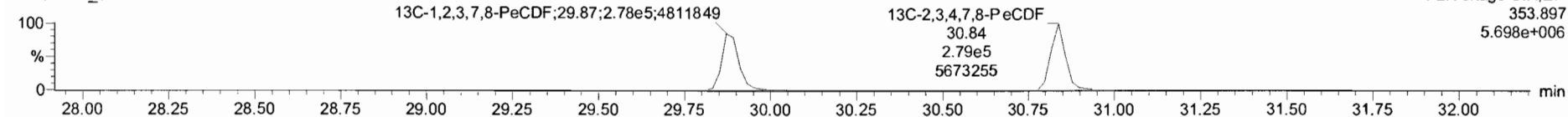


13C-1,2,3,7,8-PeCDF

190507K1_5

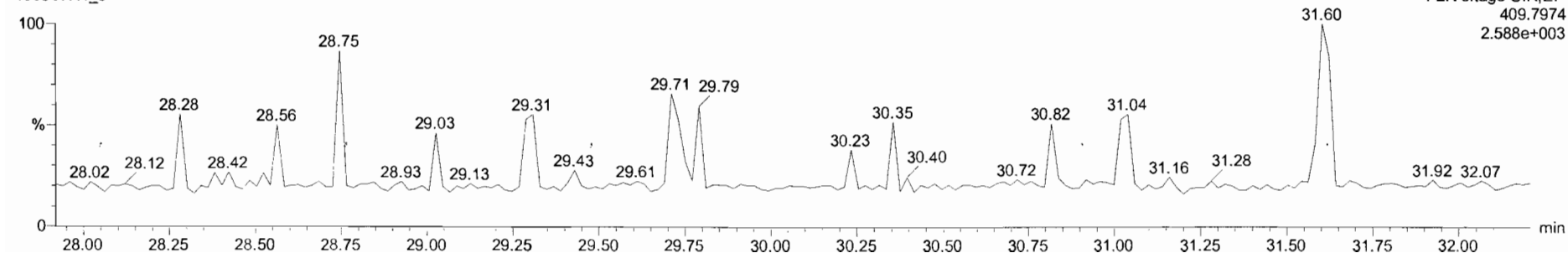


190507K1_5



DPE2

190507K1_5

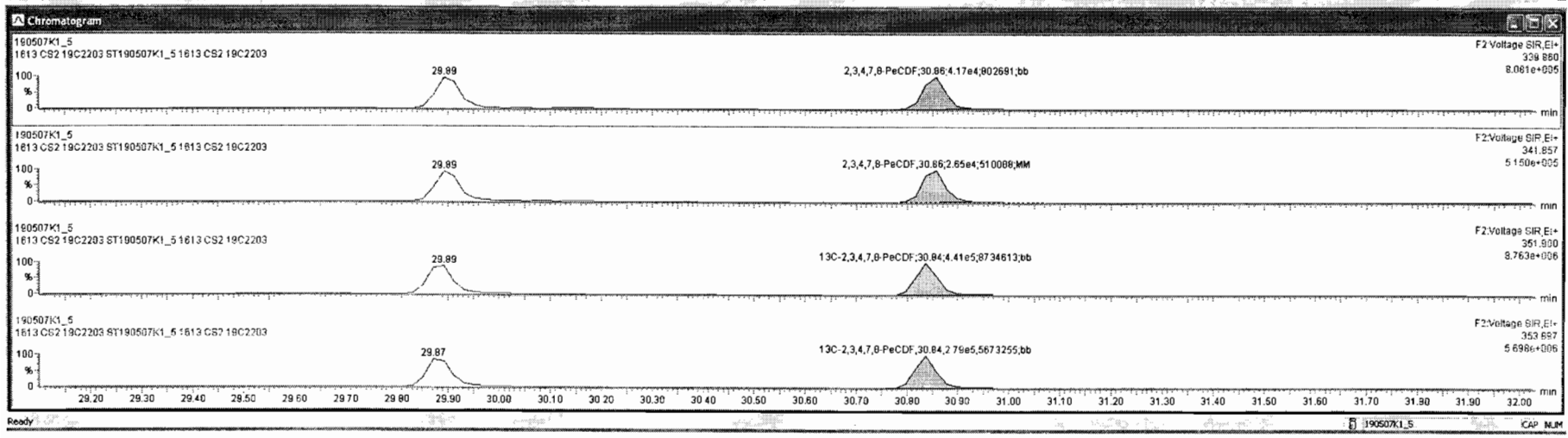


Target1.yml - 190507K1_CRV.qld

File Edit View Display Processing Window Help

190507K1_5 - ST:190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

#	Name	Resp	RA	rvj	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0542	1.85
2	1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0751	9.78
3	1,2,3,4,7,8-HxCDD	3.89e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.101	9.82
4	1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.101	9.99
5	1,2,3,7,8,9-HxCDD	3.85e4	1.22	NO	0.97	1.000	34.60	1.000	9.56	95.6	0.115	9.56
6	1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	36.31	1.000	9.56	95.6	0.144	9.56
7	OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.204	19.2
8	2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0457	1.97
9	1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	26.89	1.000	9.88	98.8	0.0670	9.88
10	2,3,4,7,8-PeCDF	8.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0558	9.42
11	1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.127	9.96
12	1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.09	1.000	33.67	1.000	9.99	99.9	0.133	9.99
13	2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.136	9.66
14	1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.218	10.1
15	1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.161	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	36.86	1.000	9.02	90.2	0.189	9.02
17	OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.000	17.2	96.1	0.218	17.2
18	13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.195	
19	13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.310	
20	13C-1,2,3,4,7,8-HxCDD	3.89e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.476	
21	13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.396	
22	13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.464	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	36.30	1.128	98.2	98.2	0.456	



Dataset: Untitled

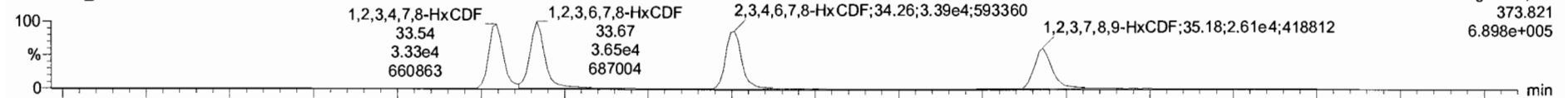
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

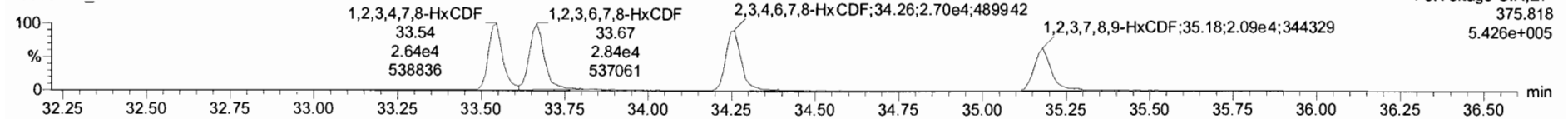
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1,2,3,4,7,8-HxCDF

190507K1_5

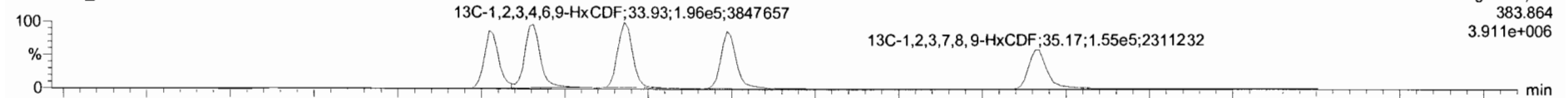


190507K1_5

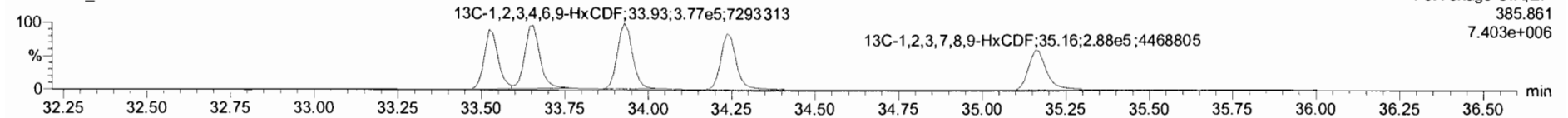


13C-1,2,3,4,7,8-HxCDF

190507K1_5

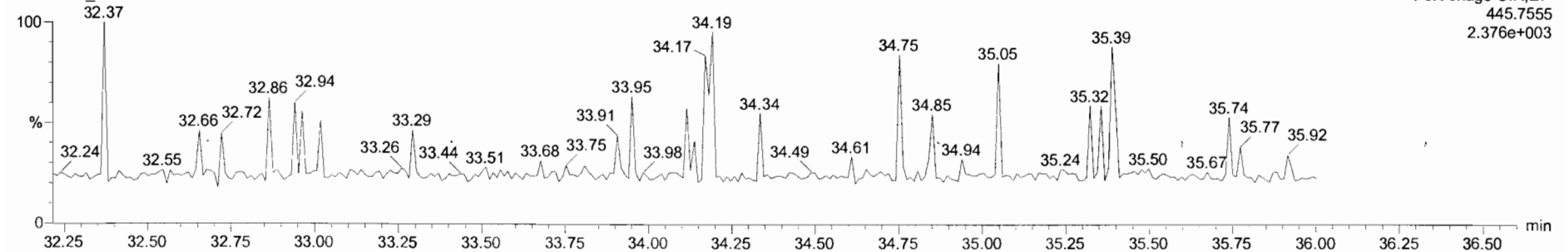


190507K1_5



DPE3

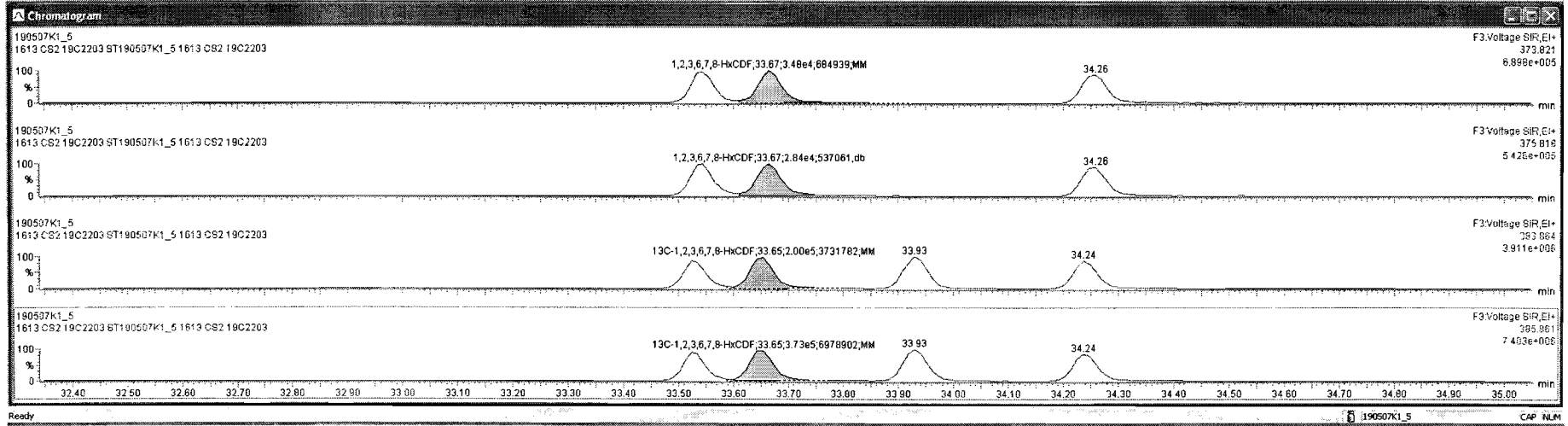
190507K1_5



Target: 190507K1_CRY.qid

190507K1_5 - ST190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	NY	RRF	StdVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0451	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3 1,2,3,4,7,8-HxCDD	3.89e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.0838	9.82
4 1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.0838	9.99
5 1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.0960	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.1120	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.6	0.170	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0361	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.87	1.000	29.89	1.000	9.88	98.8	0.0558	9.88
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0465	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.106	9.96
12 1,2,3,6,7,8-HxCDF	6.52e4	1.22	NO	1.19	1.000	33.67	1.000	10.1	101	0.1111	10.1
13 2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.113	9.67
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.182	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.134	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.140	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.000	17.2	86.1	0.182	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.162	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.258	
20 13C-1,2,3,4,7,8-HxCDD	3.89e5	1.32	NO	0.85	1.000	34.40	1.014	99.7	99.7	0.396	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.330	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.386	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.380	

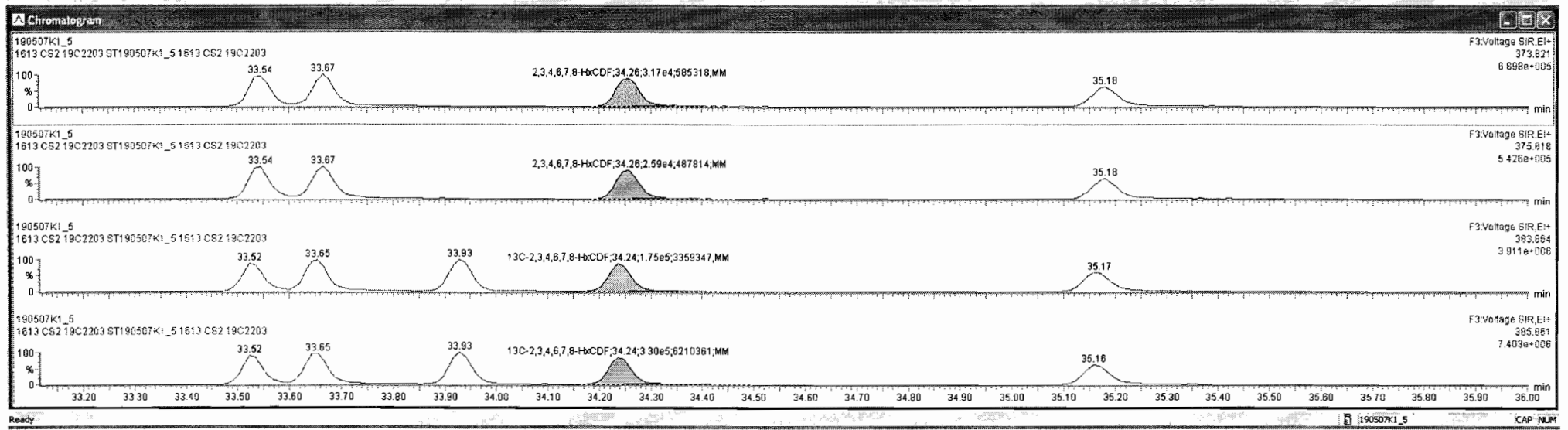


TargetLynx 190507K1_CRV.qld

File Edit View Display Processing Window Help

190507K1_5 - ST190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

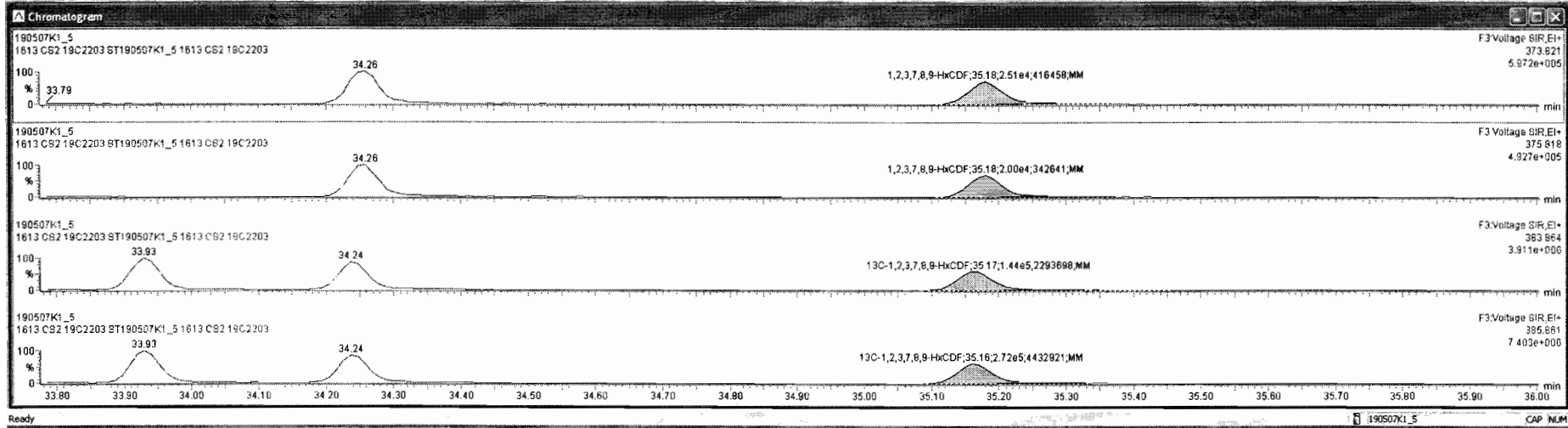
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0451	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.86	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3 1,2,3,4,7,8-HxCDD	3.89e4	1.24	NO	1.07	1.000	34.41	1.000	9.62	98.2	0.0838	9.62
4 1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.0838	9.99
5 1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.0960	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.120	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.170	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0381	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0558	9.88
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0465	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.106	9.96
12 1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.10	1.000	33.67	1.000	10.1	101	0.111	10.1
13 2,3,4,6,7,8-HxCDF	5.78e4	1.22	NO	1.18	1.000	34.26	1.001	9.97	96.7	0.113	9.67
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.16	1.000	10.1	101	0.182	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.134	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.140	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.000	41.68	1.000	17.2	86.1	0.182	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.162	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	86.5	96.5	0.258	
20 13C-1,2,3,4,7,8-HxCDD	3.89e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.396	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.330	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.386	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.380	



Target: ynx_190507K1_CRV.qld*

190507K1_5 - ST190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	n/y	RRF	wt/wd	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0451	1.85
2 1,2,3,7,8-PeCDD	4.19e4	0.86	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3 1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.0838	9.82
4 1,2,3,6,7,8-HxCDD	4.16e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.0838	9.99
5 1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	95.6	0.0960	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	38.31	1.000	9.56	95.6	0.120	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.170	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0381	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0558	9.88
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0465	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.106	9.96
12 1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.10	1.000	33.67	1.000	10.1	101	0.111	10.1
13 2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.16	1.000	34.26	1.001	9.67	96.7	0.113	9.67
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.182	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.134	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.68	1.000	9.02	90.2	0.140	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.000	41.69	1.000	17.2	86.1	0.182	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.162	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.258	
20 13C-1,2,3,4,7,8-HxCDD	3.88e5	1.32	NO	0.85	1.000	34.40	1.014	99.7	99.7	0.396	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.330	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.396	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.390	



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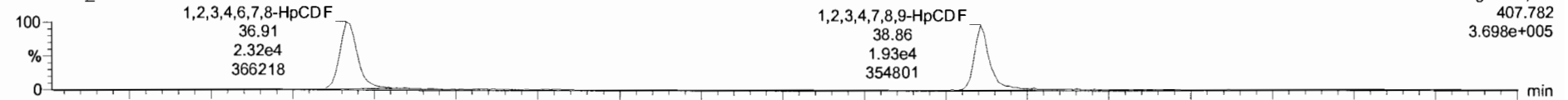
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

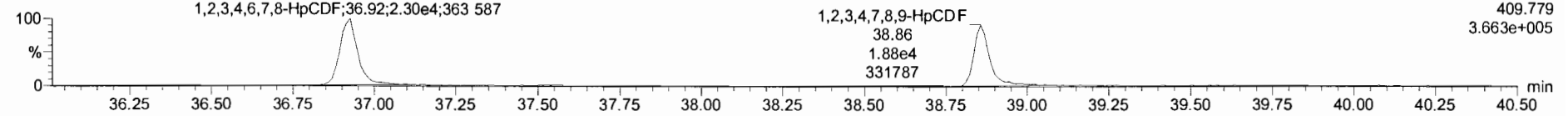
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190507K1_5



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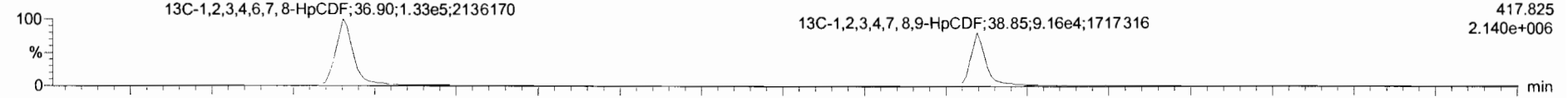
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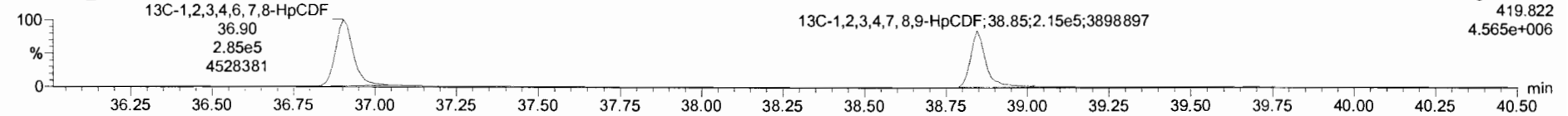
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190507K1_5



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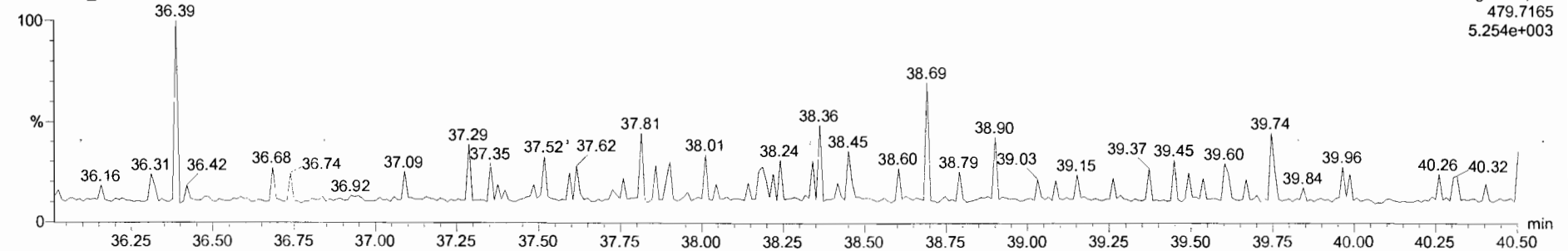
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F4:Voltage SIR,EI+
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4.565e+006

DPE4

190507K1_5



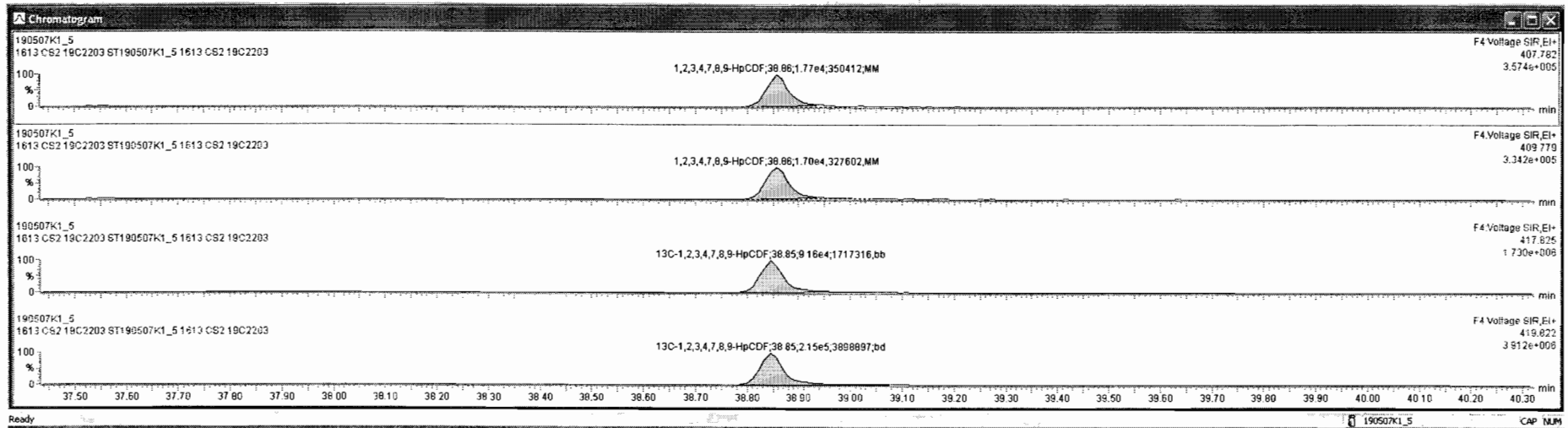
F4:Voltage SIR,EI+
479.7165
5.254e+003

Target: ymx - 190507K1_CRY.qld

File Edit View Display Processing Window Help

190507K1_5 - ST190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Line	Name	Resp	RA	FlY	RRF	wtVol	RT	RR1	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0451	1.85
2	1,2,3,7,8-PeCDD	4.19e4	0.66	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3	1,2,3,4,7,8-HxCDD	3.89e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	98.2	0.0838	9.82
4	1,2,3,6,7,8-HxCDD	4.18e4	1.22	NO	0.97	1.000	34.52	1.000	9.99	99.9	0.0838	9.99
5	1,2,3,7,8,9-HxCDD	3.65e4	1.22	NO	0.97	1.000	34.80	1.000	9.56	96.6	0.0960	9.56
6	1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	36.31	1.000	9.56	95.6	0.120	9.56
7	OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.170	19.2
8	2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0381	1.97
9	1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0558	9.88
10	2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0465	9.42
11	1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.106	9.96
12	1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.10	1.000	33.67	1.000	10.1	101	0.111	10.1
13	2,3,4,6,7,8-HxCDF	5.78e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.113	9.67
14	1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.182	10.1
15	1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.134	9.80
16	1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.140	9.02
17	OCDF	6.07e4	0.93	NO	1.10	1.000	41.89	1.000	17.2	86.1	0.182	17.2
18	13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.162	
19	13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.259	
20	13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.396	
21	13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.330	
22	13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.396	
23	13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.129	98.2	98.2	0.390	



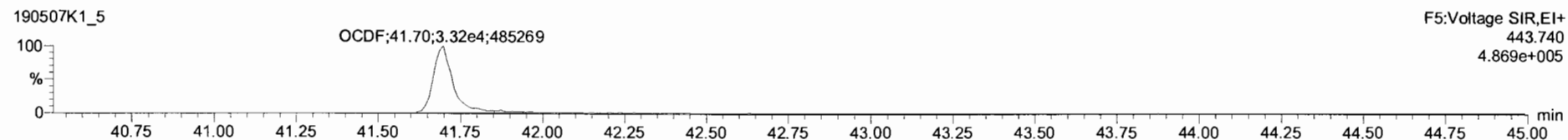
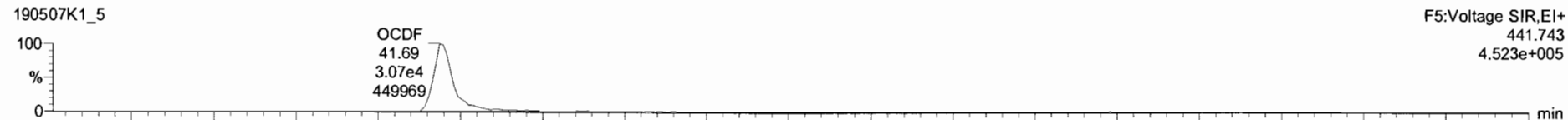
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

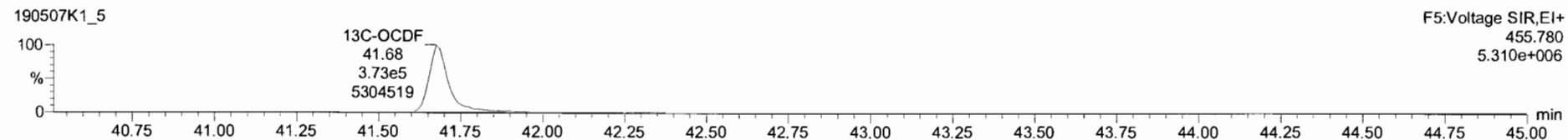
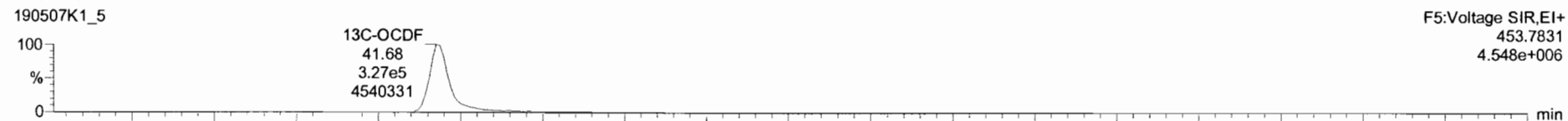
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203

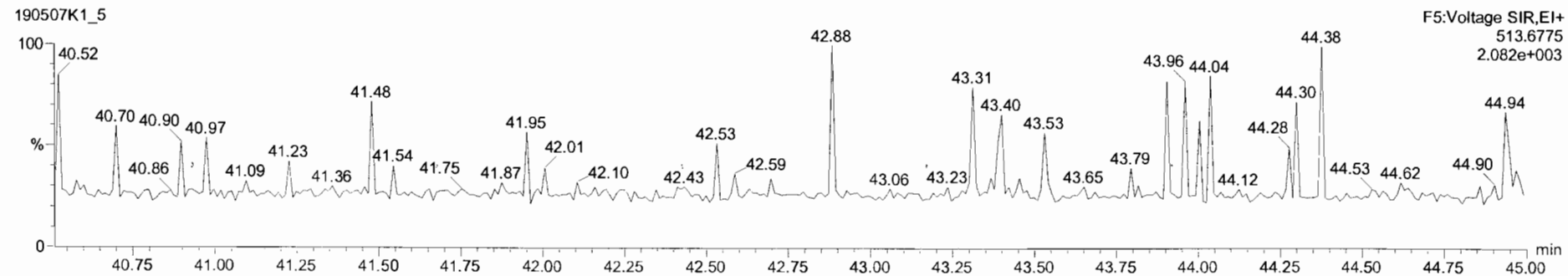
OCDF



13C-OCDF



DPE5

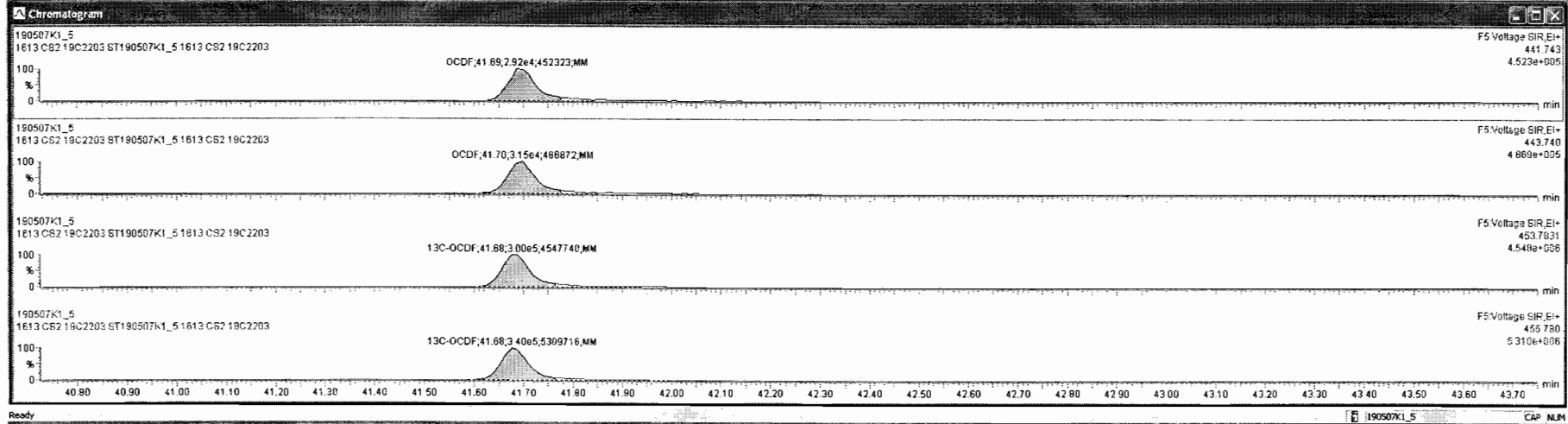


Target: ynx - 190507K1_CRY.qld

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190507K1_5 - ST190507K1_5 1613 CS2 19C2203 - 1613 CS2 19C2203

Name	Resp	RA	IFY	RFI	wt/nd	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.19e4	0.79	NO	0.92	1.000	26.34	1.001	1.85	92.7	0.0461	1.85
2 1,2,3,7,8-PeCDD	4.18e4	0.65	NO	0.90	1.000	31.14	1.001	9.78	97.8	0.0625	9.78
3 1,2,3,4,7,8-HxCDD	3.88e4	1.24	NO	1.07	1.000	34.41	1.000	9.82	88.2	0.0838	9.82
4 1,2,3,6,7,8-HxCDD	4.18e4	1.22	NO	0.97	1.000	34.52	1.000	9.89	99.9	0.0838	9.89
5 1,2,3,7,8,9-HxCDD	3.85e4	1.22	NO	0.87	1.000	34.80	1.000	9.56	95.6	0.0860	9.56
6 1,2,3,4,6,7,8-HpCDD	2.98e4	1.05	NO	1.03	1.000	36.31	1.000	9.56	95.6	0.120	9.56
7 OCDD	4.71e4	0.89	NO	0.97	1.000	41.47	1.000	19.2	95.8	0.170	19.2
8 2,3,7,8-TCDF	1.71e4	0.77	NO	0.94	1.000	25.50	1.001	1.97	98.3	0.0381	1.97
9 1,2,3,7,8-PeCDF	6.93e4	1.65	NO	0.97	1.000	29.89	1.000	9.88	98.8	0.0558	9.88
10 2,3,4,7,8-PeCDF	6.82e4	1.58	NO	1.00	1.000	30.86	1.001	9.42	94.2	0.0465	9.42
11 1,2,3,4,7,8-HxCDF	5.97e4	1.26	NO	1.24	1.000	33.54	1.001	9.96	99.6	0.106	9.96
12 1,2,3,6,7,8-HxCDF	6.32e4	1.22	NO	1.10	1.000	33.67	1.000	10.1	101	0.111	10.1
13 2,3,4,6,7,8-HxCDF	5.76e4	1.22	NO	1.18	1.000	34.26	1.001	9.67	96.7	0.113	9.67
14 1,2,3,7,8,9-HxCDF	4.51e4	1.25	NO	1.07	1.000	35.18	1.000	10.1	101	0.182	10.1
15 1,2,3,4,6,7,8-HpCDF	4.63e4	1.01	NO	1.13	1.000	36.91	1.000	9.80	98.0	0.134	9.80
16 1,2,3,4,7,8,9-HpCDF	3.47e4	1.04	NO	1.26	1.000	38.86	1.000	9.02	90.2	0.140	9.02
17 OCDF	6.07e4	0.93	NO	1.10	1.000	41.89	1.000	17.2	95.3	0.162	17.2
18 13C-2,3,7,8-TCDD	6.91e5	0.78	NO	1.05	1.000	26.33	1.025	99.9	99.9	0.162	
19 13C-1,2,3,7,8-PeCDD	4.73e5	0.59	NO	0.74	1.000	31.12	1.212	96.5	96.5	0.258	
20 13C-1,2,3,4,7,8-HxCDD	3.69e5	1.32	NO	0.65	1.000	34.40	1.014	99.7	99.7	0.306	
21 13C-1,2,3,6,7,8-HxCDD	4.30e5	1.26	NO	0.78	1.000	34.51	1.017	96.7	96.7	0.330	
22 13C-1,2,3,7,8,9-HxCDD	3.93e5	1.25	NO	0.66	1.000	34.78	1.025	103	103	0.306	
23 13C-1,2,3,4,6,7,8-HpCDD	3.04e5	1.09	NO	0.54	1.000	38.30	1.126	98.2	98.2	0.300	

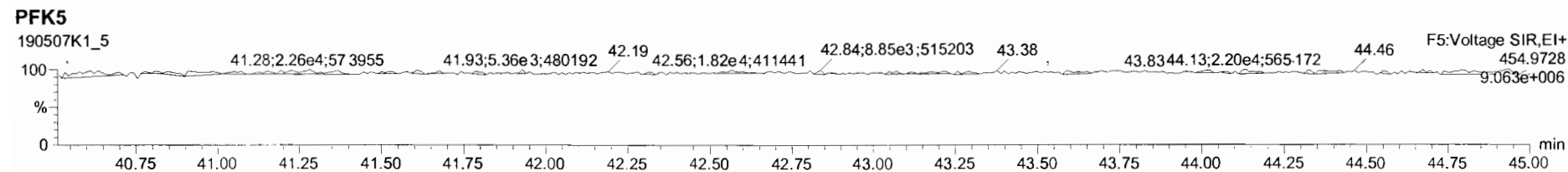
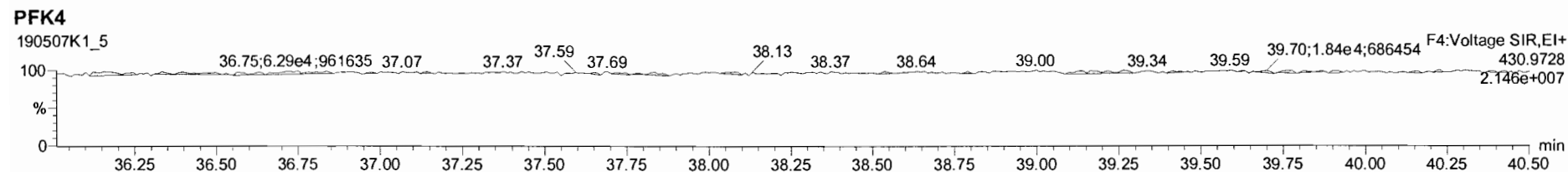
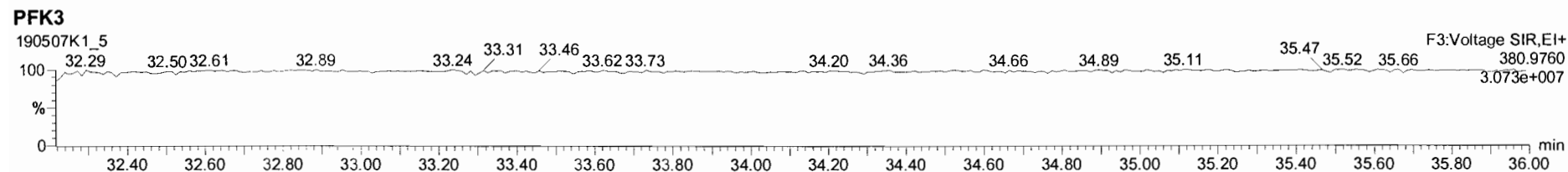
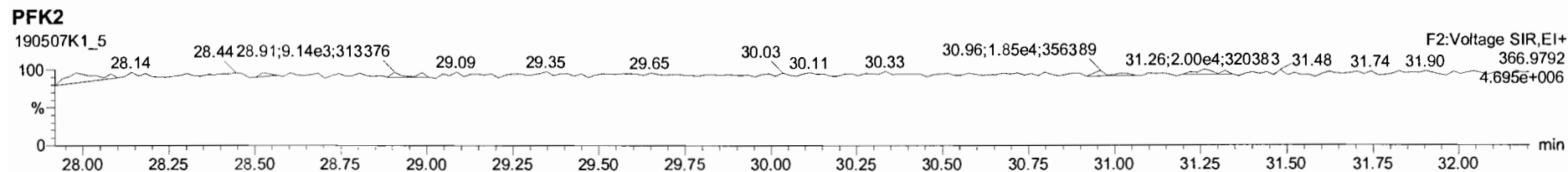
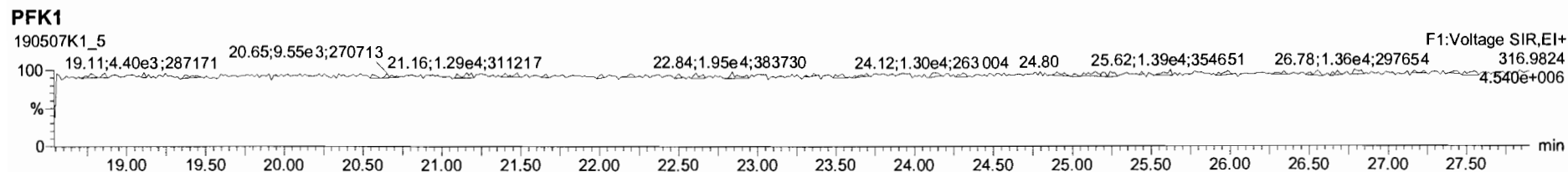


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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_5, Date: 07-May-2019, Time: 13:51:47, ID: ST190507K1_5 1613 CS2 19C2203, Description: 1613 CS2 19C2203



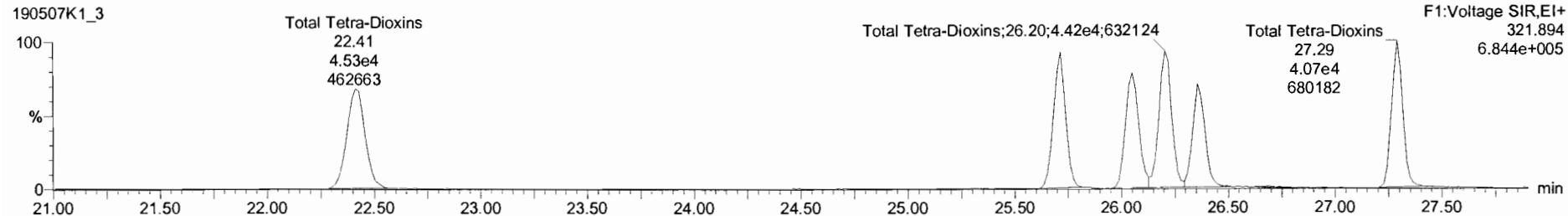
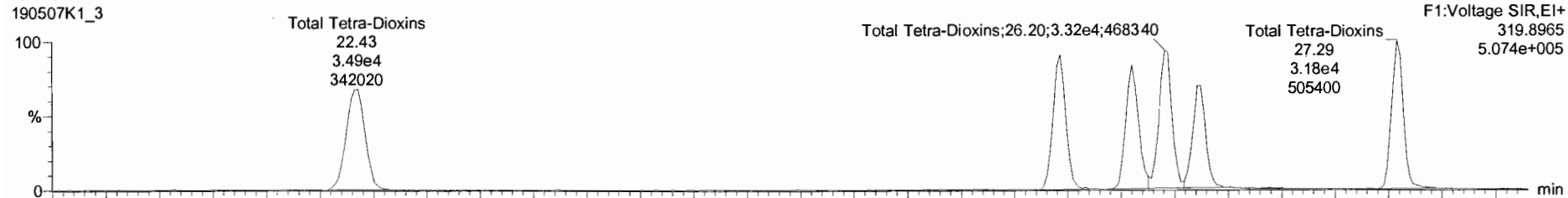
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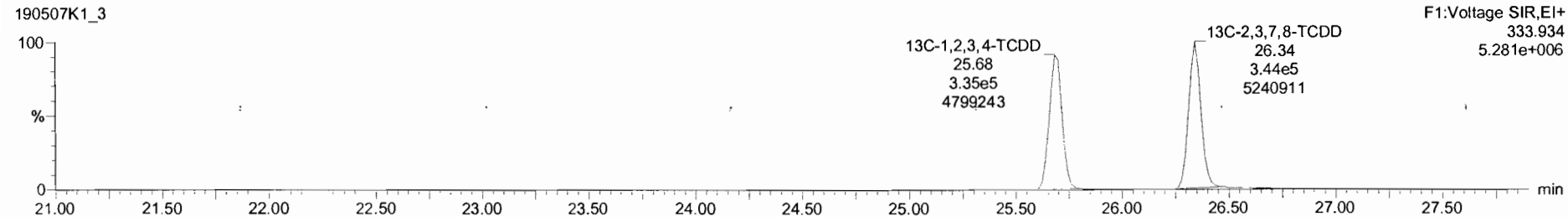
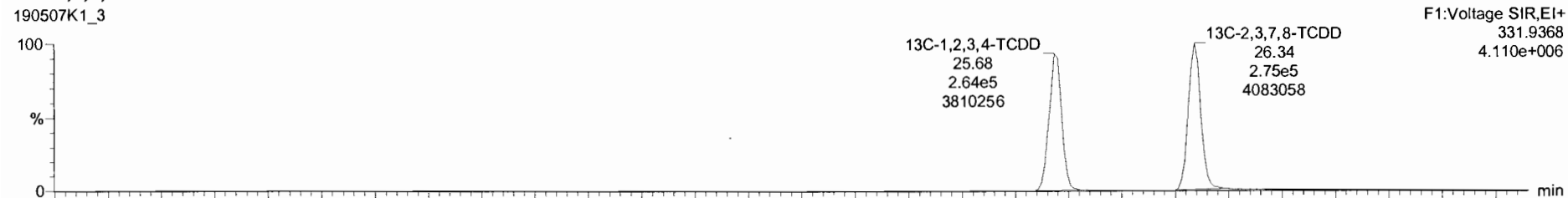
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2,3,7,8-TCDD



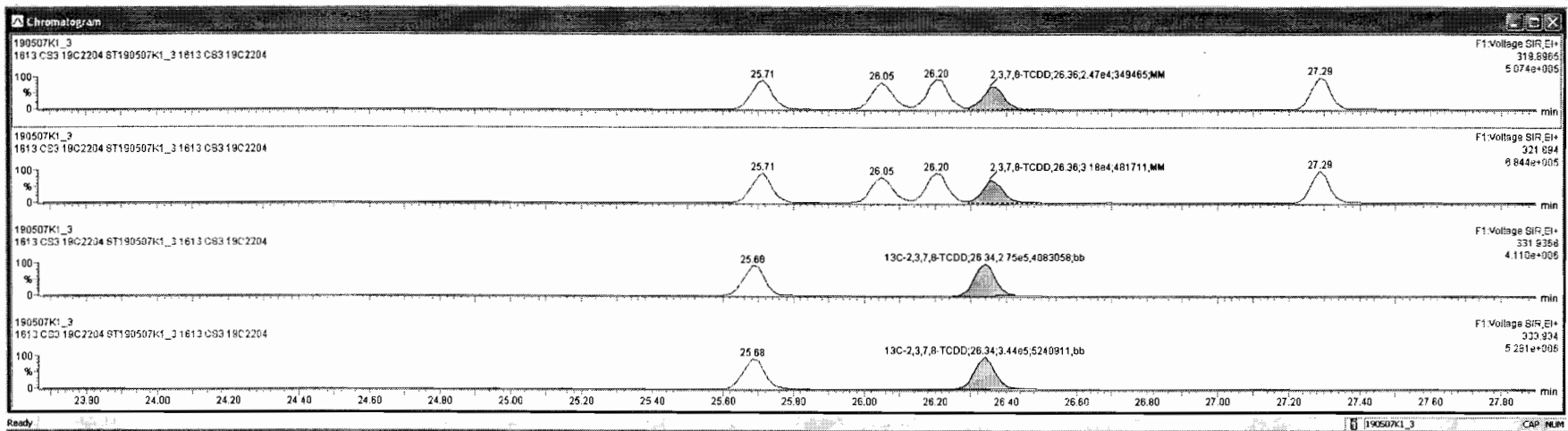
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TargetLynx - 190507K1_CRW.gld

190507K1_3 - ST190507K1_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	NV	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.65e4	0.79	NO	0.92	1.000	26.36	1.001	9.97	96.7	0.0600	9.87
2 1,2,3,7,8-PeCDD	1.80e5	0.83	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5 1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0657	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10 2,3,4,7,8-PeCDF	3.17e5	1.56	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.148	49.7
11 1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.58	1.001	48.1	98.2	0.274	48.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.267	51.0
14 1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16 1,2,3,4,7,8,9-HpCDF	1.69e5	1.10	NO	1.26	1.000	38.87	1.000	46.6	93.2	0.350	46.6
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18 13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.276	
19 13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.85	1.000	34.41	1.014	102	102	0.543	
21 13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.68	1.000	34.80	1.025	102	102	0.529	
23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	



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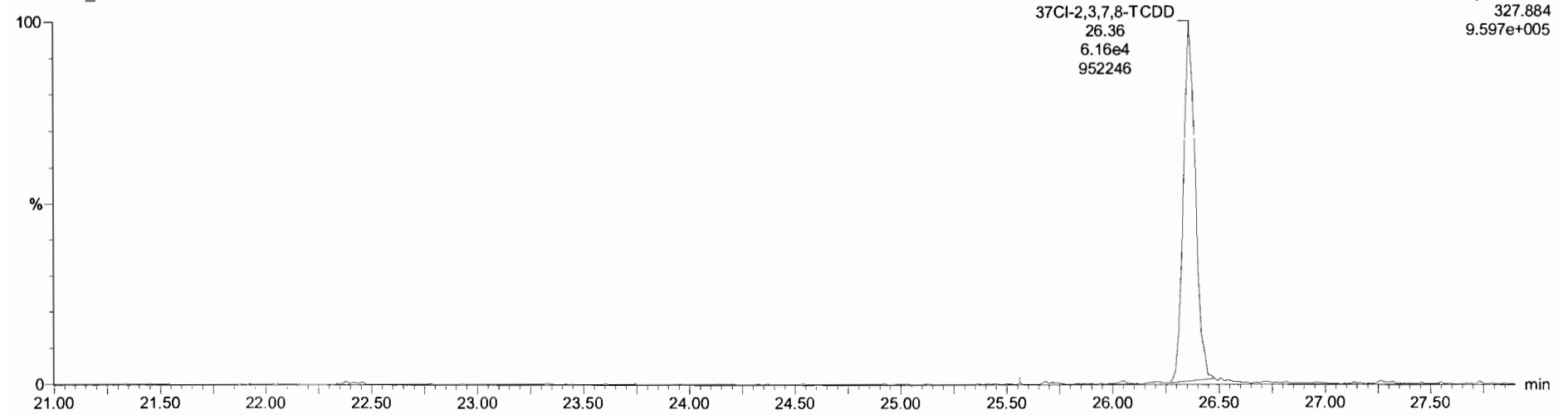
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

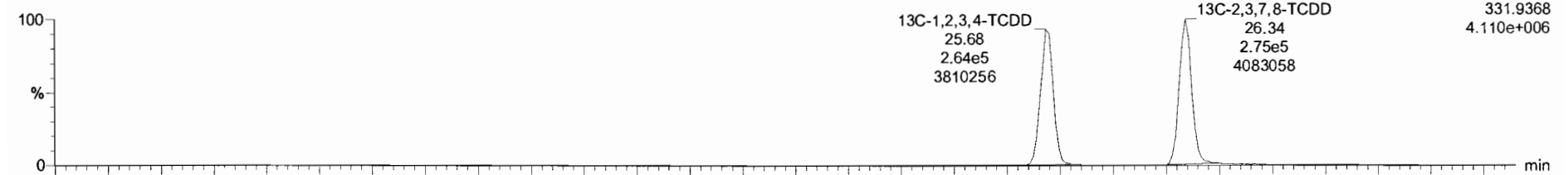
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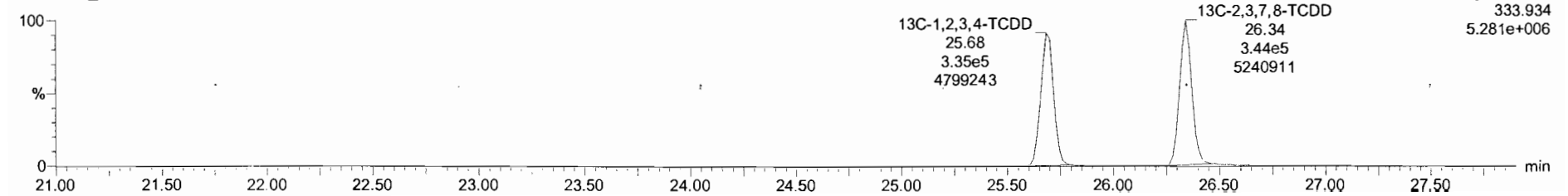


13C-1,2,3,4-TCDD

190507K1_3



190507K1_3



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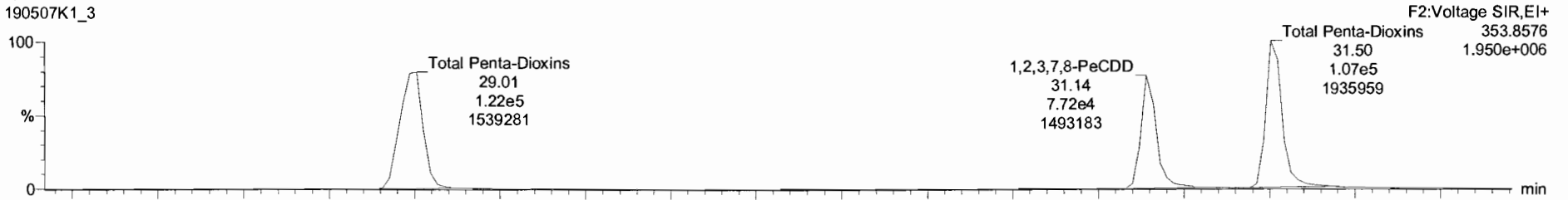
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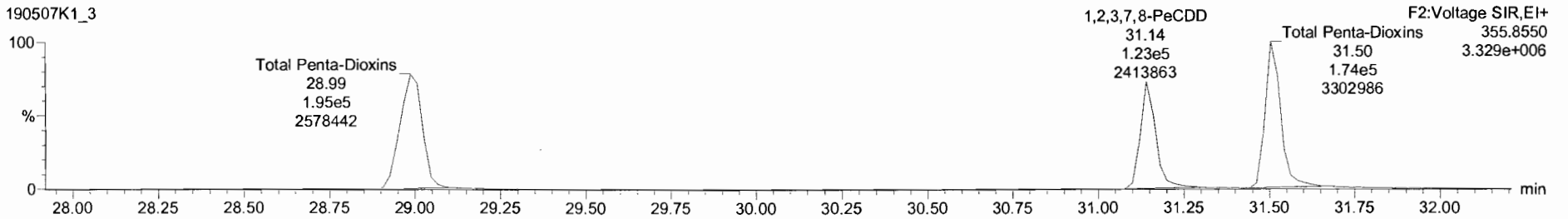
Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

1,2,3,7,8-PeCDD

190507K1_3

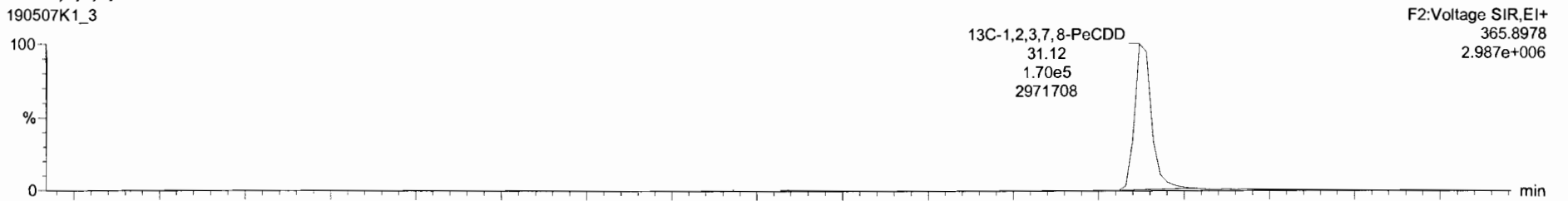


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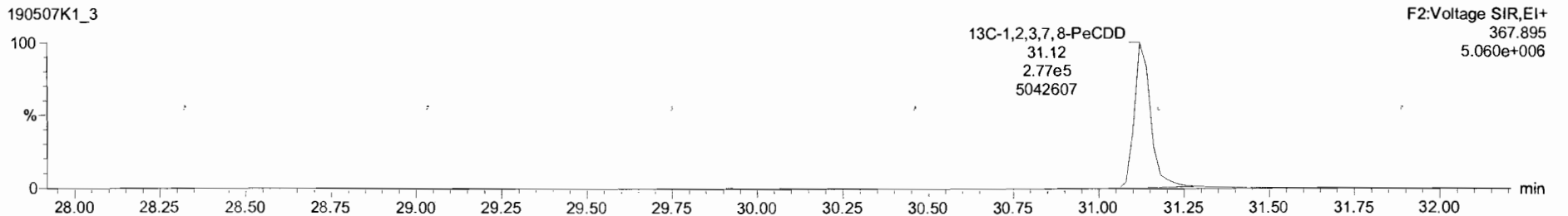


13C-1,2,3,7,8-PeCDD

190507K1_3



190507K1_3

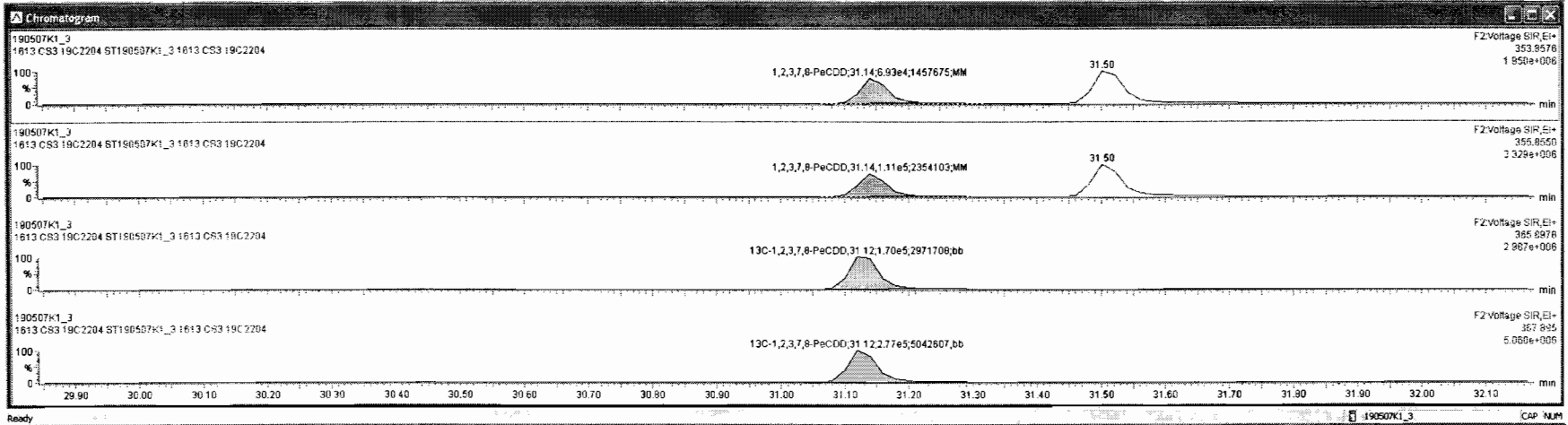


TargetLynx - 190507K1.CRV.qid

File Edit View Display Processing Window Help

190507K1_3 - ST190507K1_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	nV	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0900	9.87
2 1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.80	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.26	NO	1.07	1.000	34.42	1.000	49.0	96.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5 1,2,3,7,8-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.81	1.001	49.4	96.7	0.135	49.4
10 2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11 1,2,3,4,7,8-HxCDF	2.68e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	98.2	0.274	49.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14 1,2,3,7,8-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16 1,2,3,4,7,8-HpCDF	1.68e5	1.10	NO	1.26	1.000	38.87	1.000	46.8	93.2	0.350	46.8
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18 13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.275	
19 13C-1,2,3,7,8-PeCDD	4.47e5	0.81	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 13C-1,2,3,4,7,8-HxCDD	3.38e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21 13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 13C-1,2,3,7,8-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	



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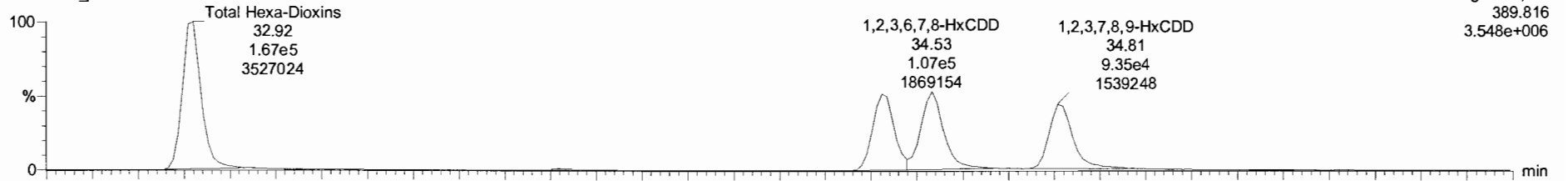
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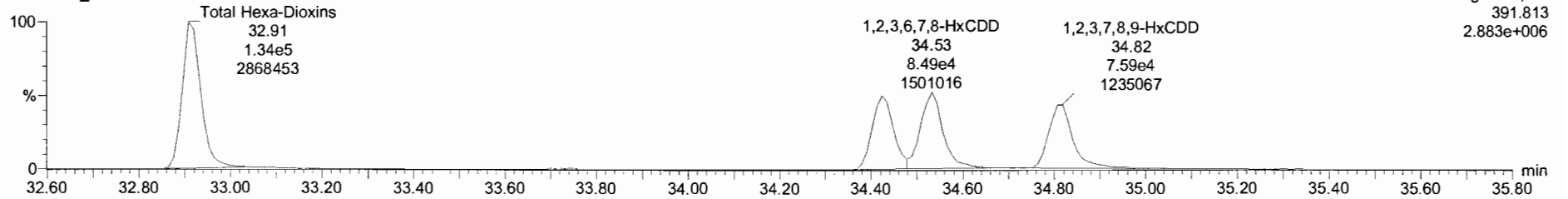
Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

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

190507K1_3

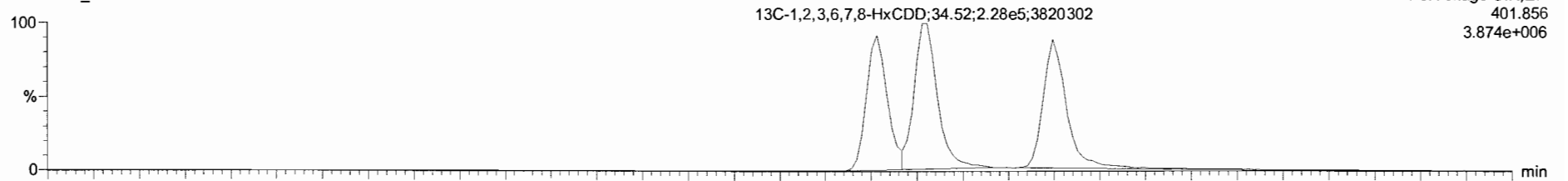


190507K1_3

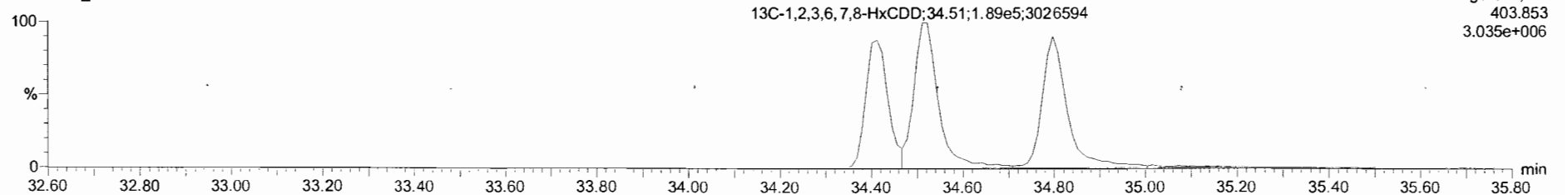


13C-1,2,3,4,7,8-HxCDD

190507K1_3



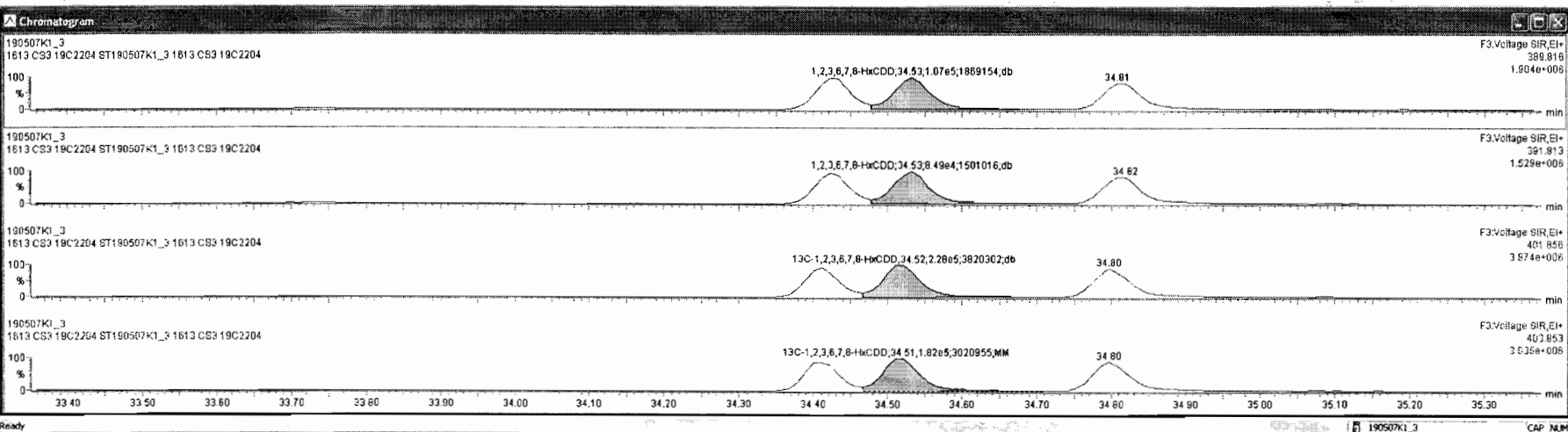
190507K1_3



Target: ymx - 190507K1_CRV.qld

190507K1_3 - ST190507K1_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Peak	Name	Resp	RA	n/y	RRF	WAcq	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	25.36	1.001	9.87	96.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.28	NO	0.97	1.000	34.53	1.006	46.5	97.0	0.308	46.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7	OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.79	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10	2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.145	49.7
11	1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	98.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.89	1.000	50.6	101	0.280	50.6
13	2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.89e5	1.10	NO	1.26	1.000	38.87	1.000	46.8	93.2	0.350	46.5
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	25.34	1.026	98.4	98.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.38e5	1.24	NO	0.85	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.86	1.000	34.80	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	36.31	1.126	100	100	0.557	

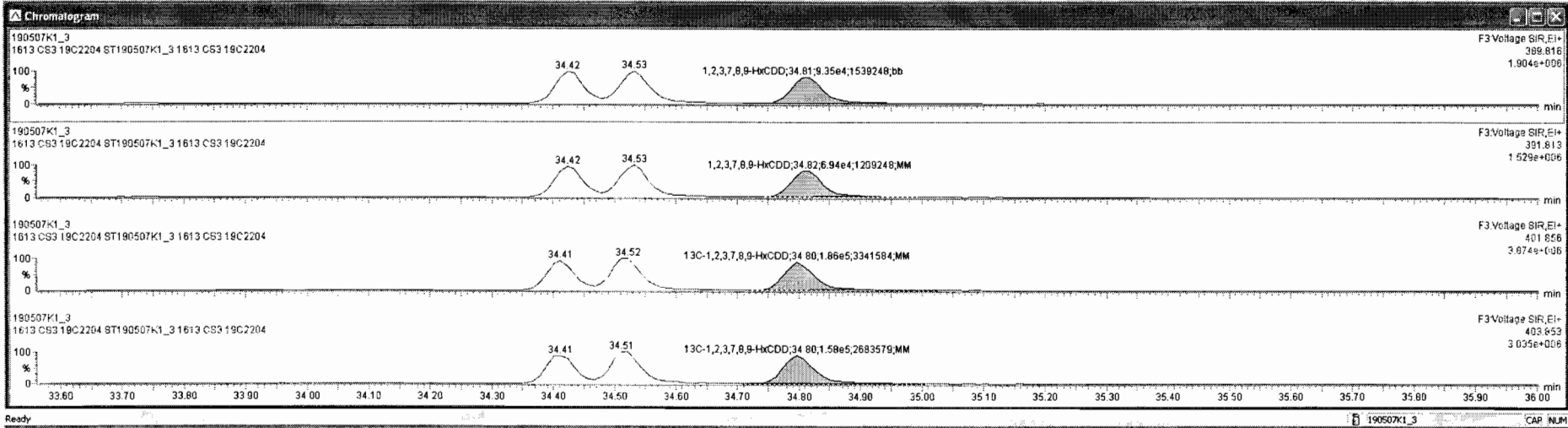


Target: ymx_190507K1_CRV.qld

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190507K1_3 - ST190507K1_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Line	Name	Resp	RA	dy	RF	WtVol	RT	PRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.76e5	1.26	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	46.5	97.0	0.308	46.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7	OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10	1,2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11	1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	98.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13	2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.69e5	1.10	NO	1.26	1.000	38.87	1.000	46.6	93.2	0.350	46.6
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	28.34	1.026	98.4	98.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.38e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.78e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	



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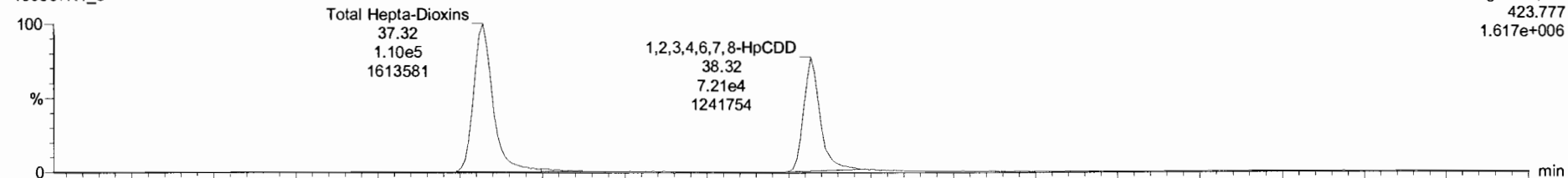
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

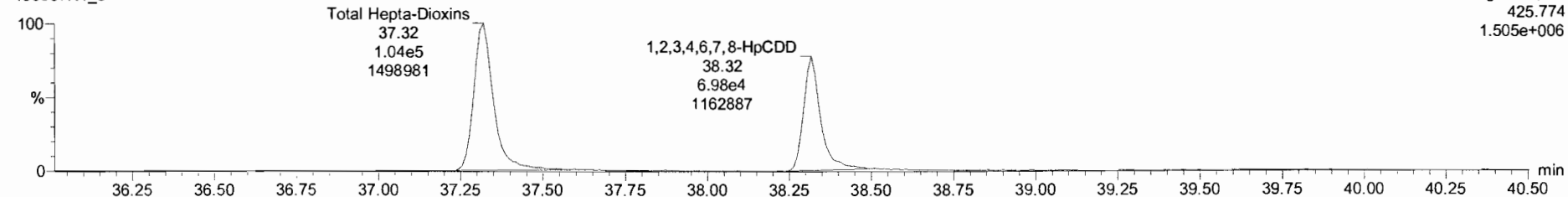
Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

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

190507K1_3

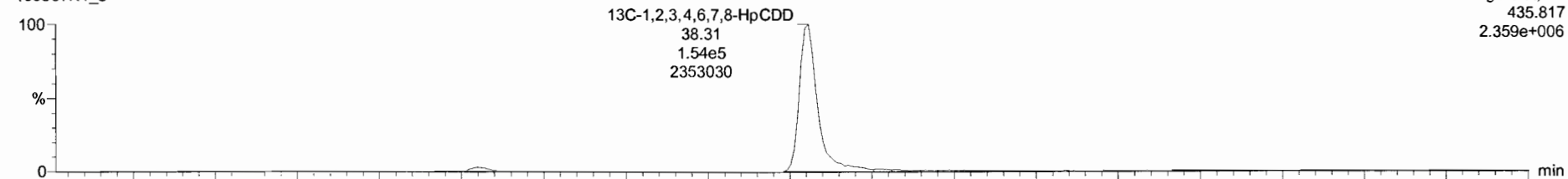


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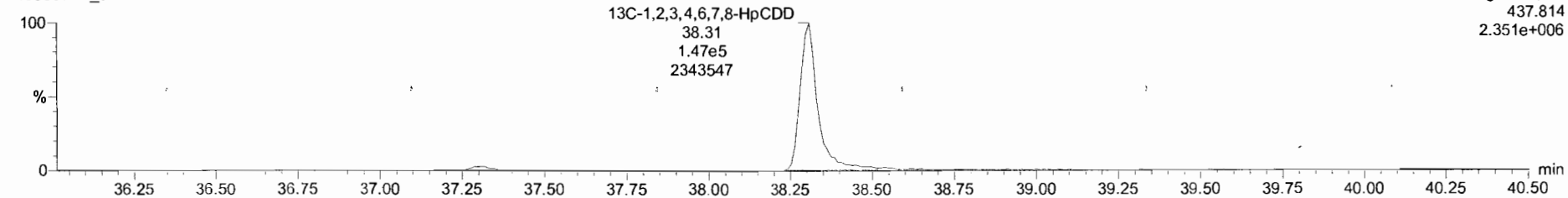


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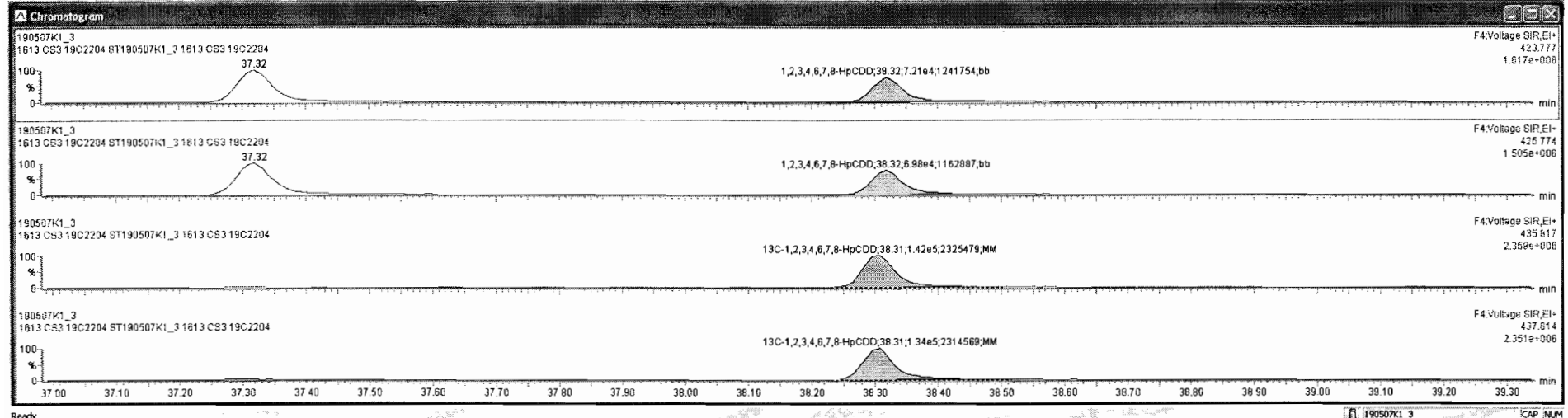
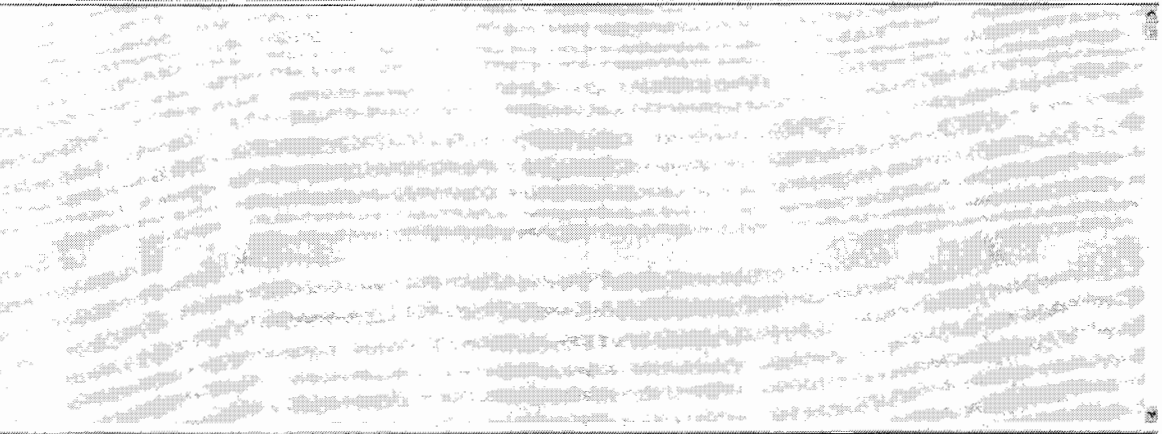


190507K1_3



190507K1_3 - ST190507K1_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	RY	RRF	wVoi	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.85e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0800	9.87
2 1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	69.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	88.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5 1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	85.9	0.0857	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10 2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11 1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.58	1.001	49.1	98.2	0.274	49.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14 1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16 1,2,3,4,7,8,9-HpCDF	1.69e5	1.10	NO	1.28	1.000	38.87	1.000	46.6	93.2	0.350	46.6
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18 13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.276	
19 13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21 13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.68	1.000	34.80	1.025	102	102	0.529	
23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	



Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

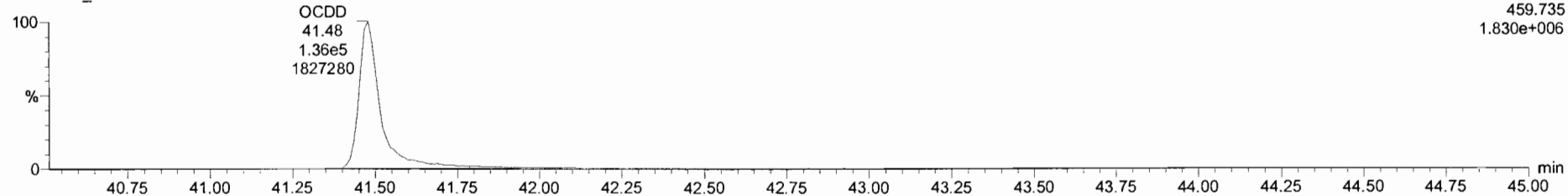
Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

OCDD

190507K1_3

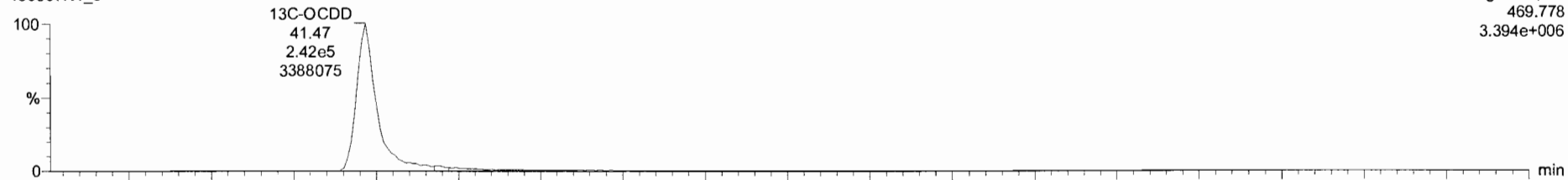


190507K1_3

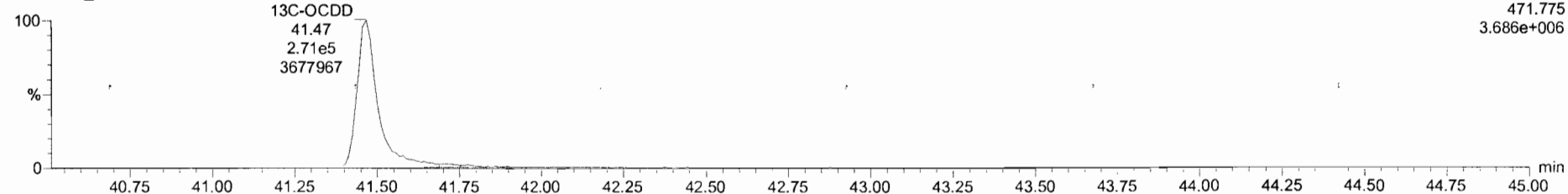


13C-OCDD

190507K1_3



190507K1_3

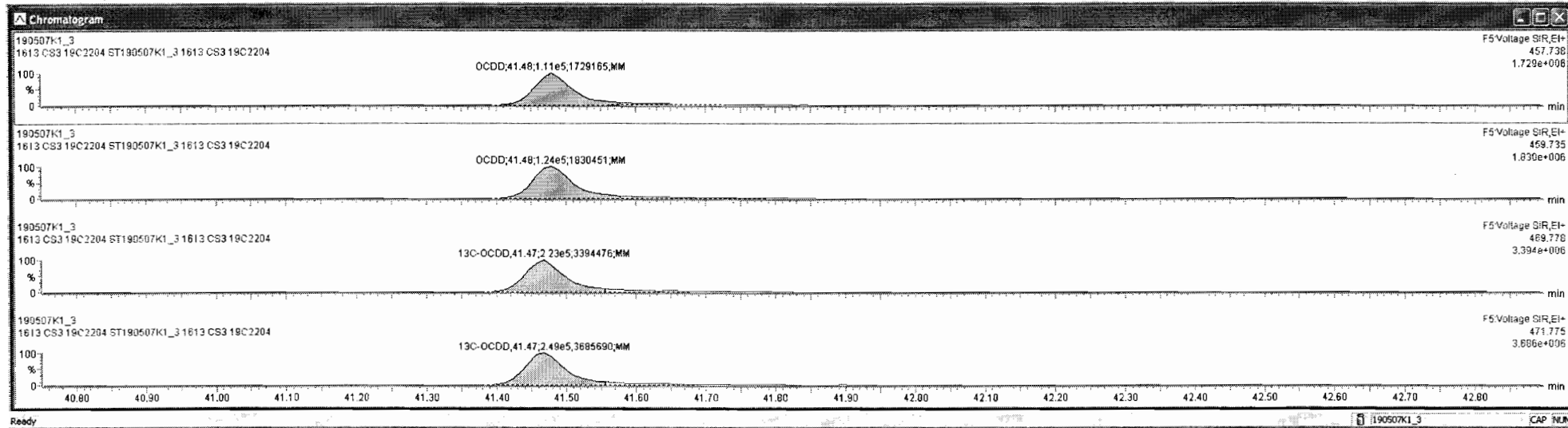


TargetLynx - 190507K1 - CRV.qld

File Edit View Display Processing Window Help

190507K1_3 - ST190507K1_3_1613_CS3_19C2204 - 1613_CS3_19C2204

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.97	96.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.83	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.306	48.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7	OCDD	2.35e5	0.80	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10	2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	98.5	0.148	49.7
11	1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	98.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.88	1.000	50.6	101	0.280	50.6
13	1,2,3,6,7,8-HxCDF	2.75e5	1.26	NO	1.16	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.89e5	1.10	NO	1.26	1.000	38.87	1.000	46.6	93.2	0.360	46.6
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	96.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.81	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.85	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.86	1.000	34.60	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	

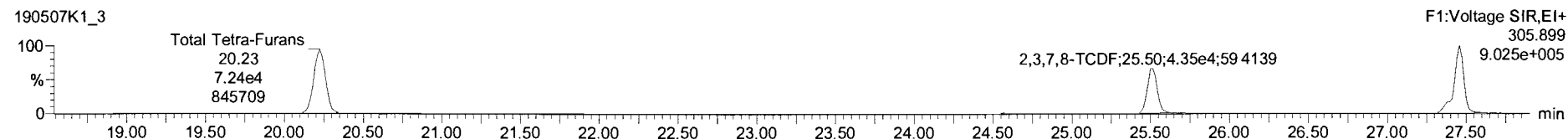


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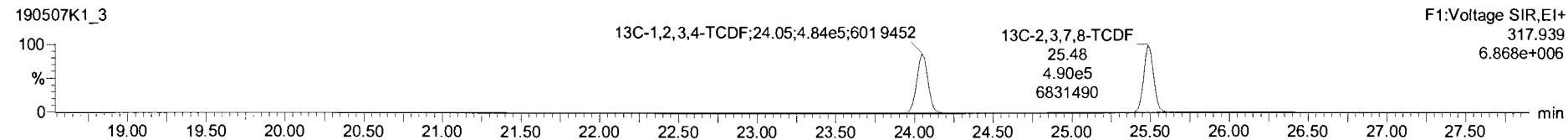
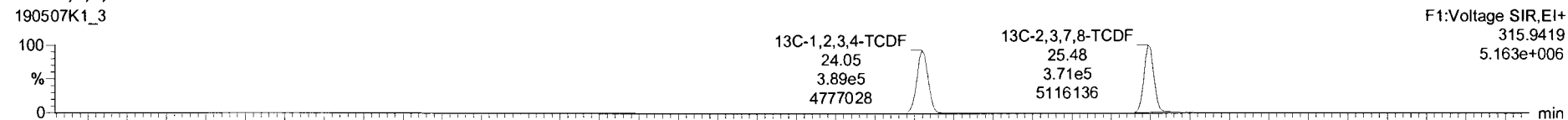
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

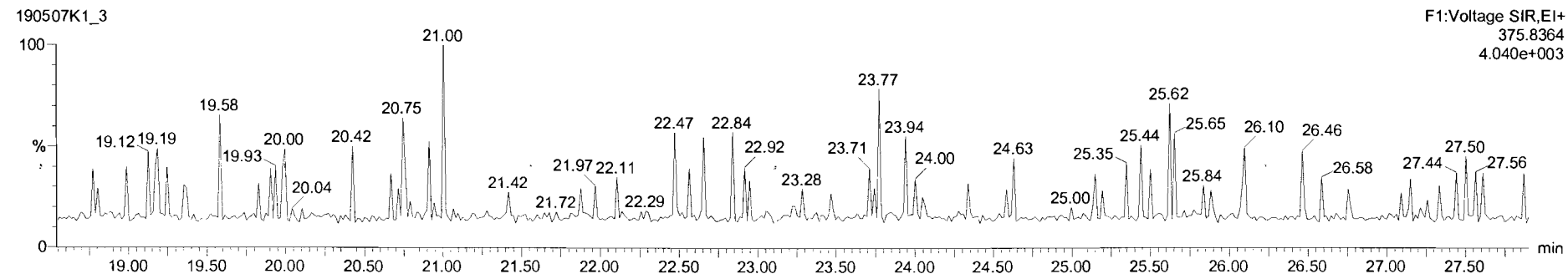
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

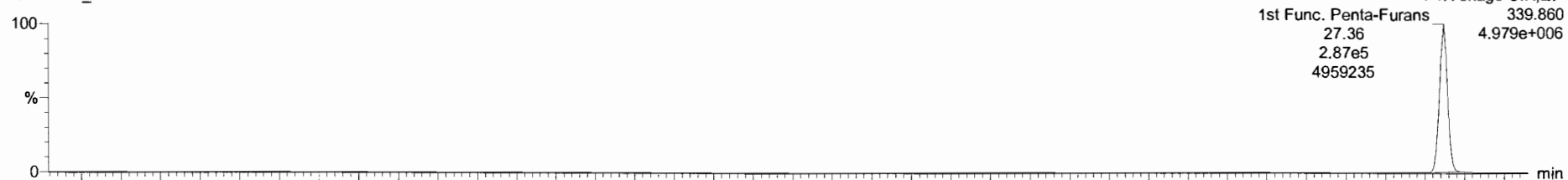
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

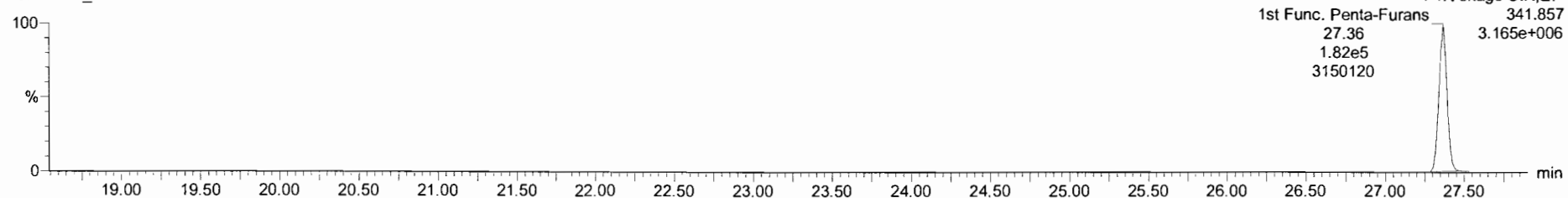
Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

1st Func. Penta-Furans

190507K1_3

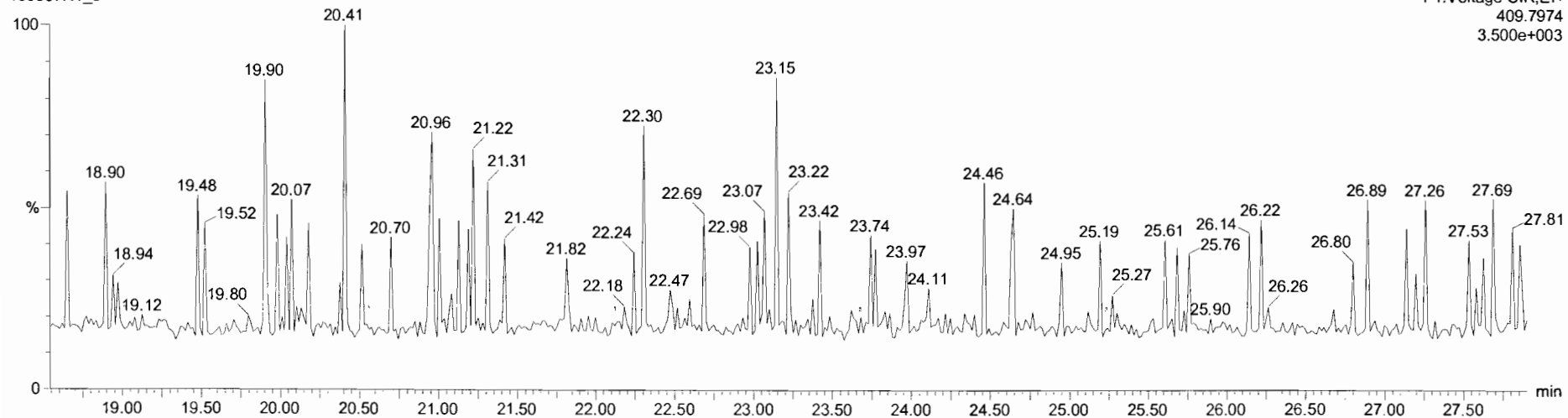


190507K1_3



DPE6

190507K1_3



Dataset: Untitled

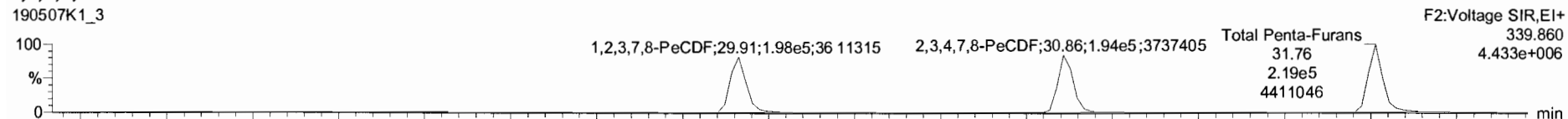
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

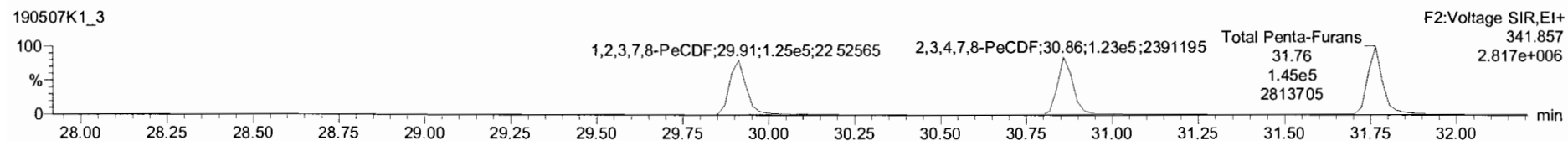
Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

1,2,3,7,8-PeCDF

190507K1_3

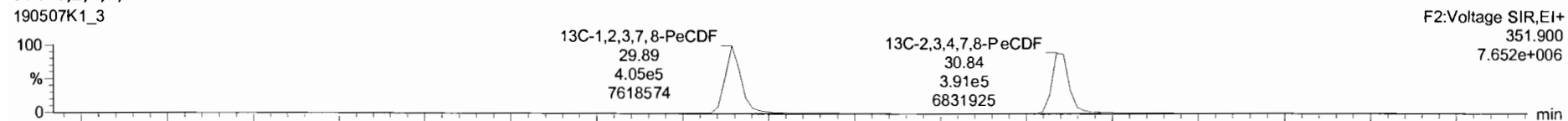


190507K1_3

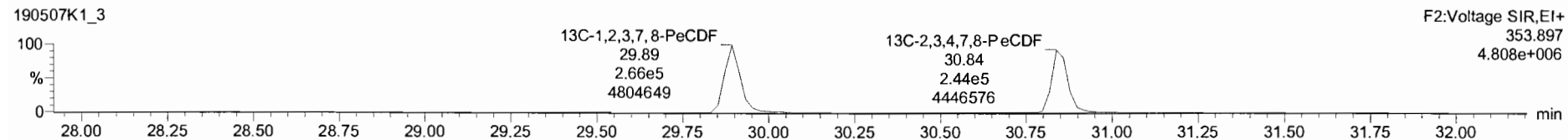


13C-1,2,3,7,8-PeCDF

190507K1_3

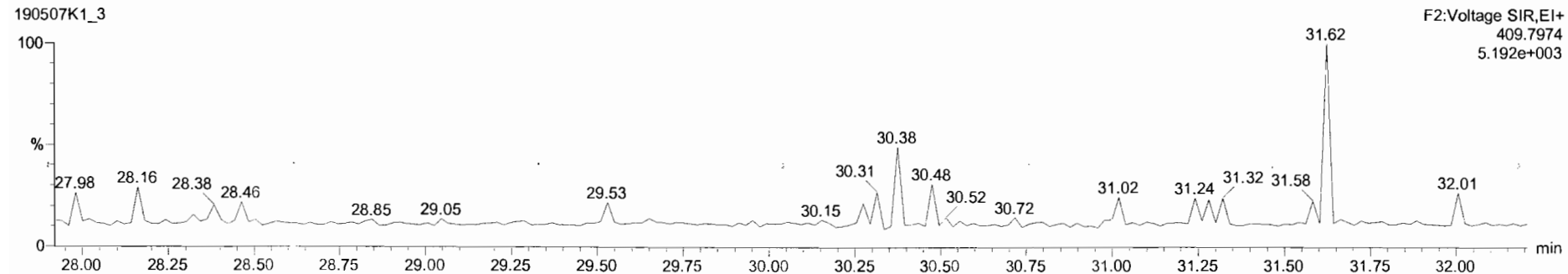


190507K1_3



DPE2

190507K1_3

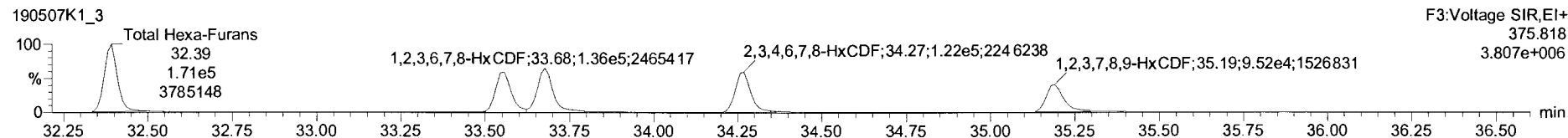
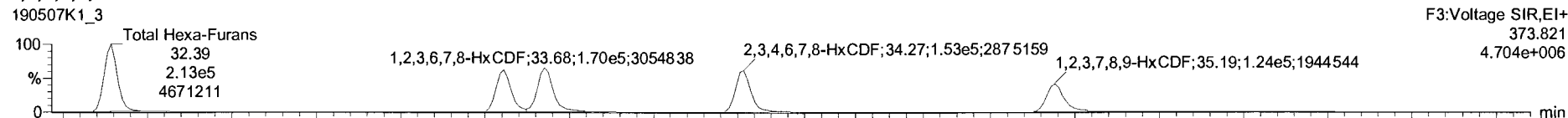


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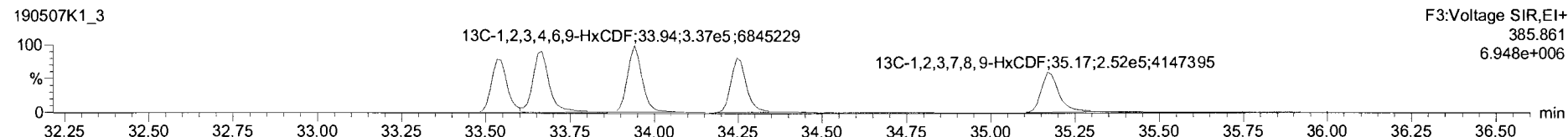
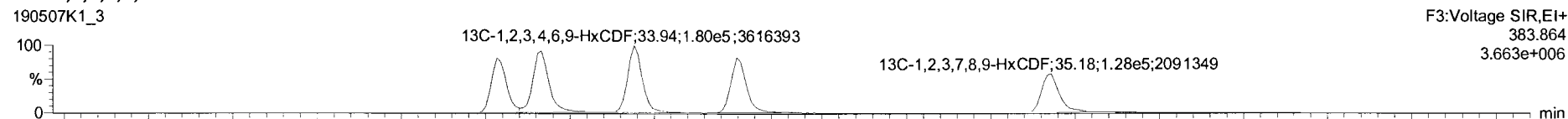
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

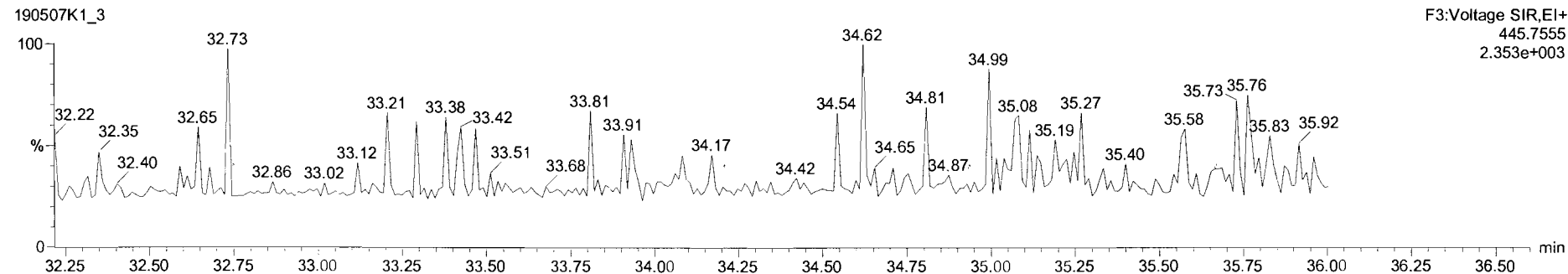
1,2,3,4,7,8-HxCDF



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



DPE3

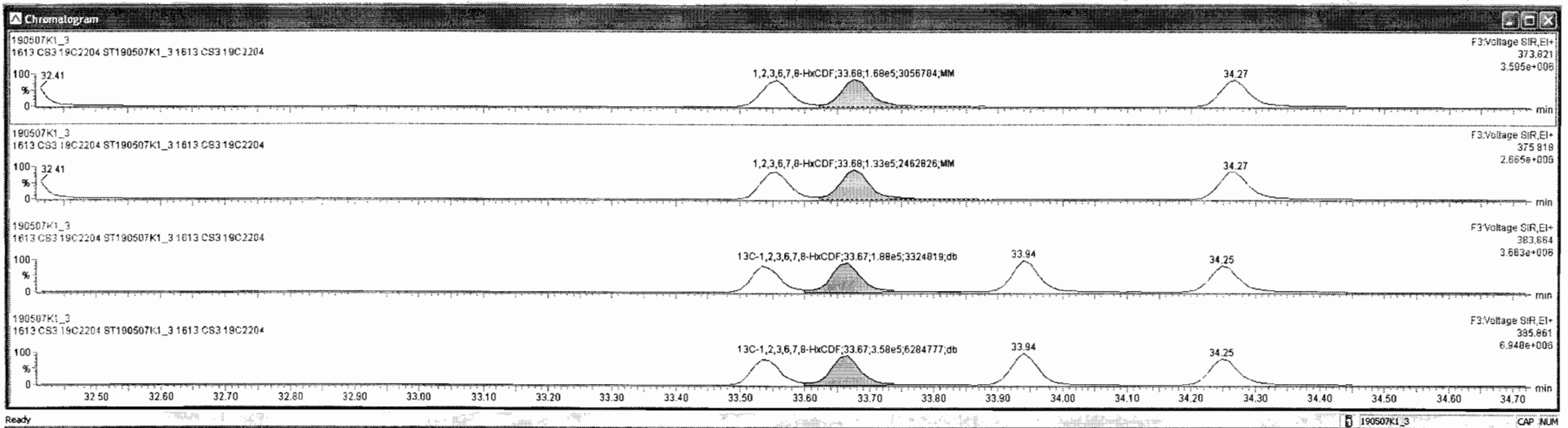


Targetlynx - 190507K1_CRV.qld

File Edit View Display Processing Window Help

190507K1_3 - ST 190507K1_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	nNy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	5.85e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	99.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	96.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.306	48.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.61	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7	OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	96.7	0.135	49.4
10	1,2,3,4,7,8-HxCDF	3.17e5	1.59	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11	1,2,3,4,7,8-HxCDF	2.69e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	98.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13	2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.69e5	1.10	NO	1.26	1.000	38.87	1.000	46.6	93.2	0.350	46.6
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.028	98.4	98.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.85	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	

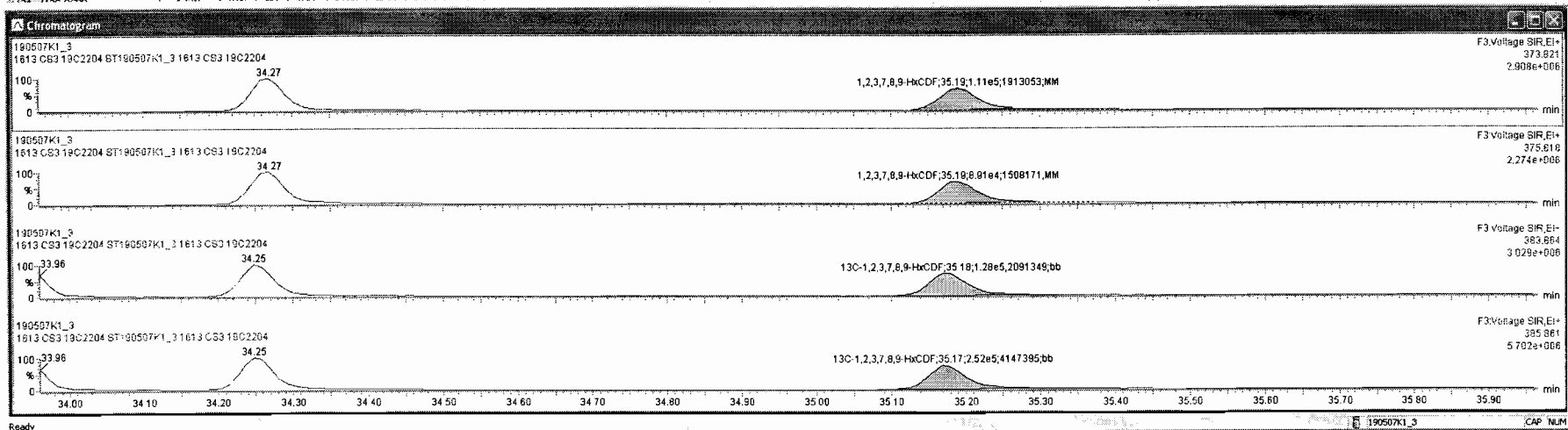


Target: ymx - 190507K1_CRV.qld

File Edit View Display Processing Window Help

190507K1_3 ST:190507K1_3 1613 CS3 19C2204 1613 CS3 19C2204

Name	Resp	RA	NY	RRF	WtVol	RT	RR1	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0900	9.87
2 1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	46.5	97.0	0.308	46.5
5 1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10 2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11 1,2,3,4,7,8-HxCDF	2.89e5	1.25	NO	1.24	1.000	33.58	1.001	49.1	98.2	0.274	49.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14 1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16 1,2,3,4,7,8,9-HpCDF	1.89e5	1.10	NO	1.26	1.000	38.87	1.000	46.6	93.2	0.350	46.6
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18 13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.276	
19 13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21 13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	

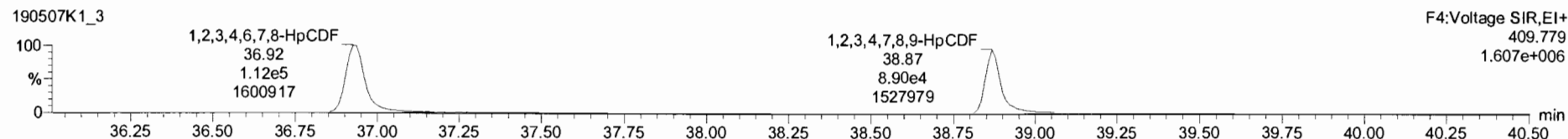
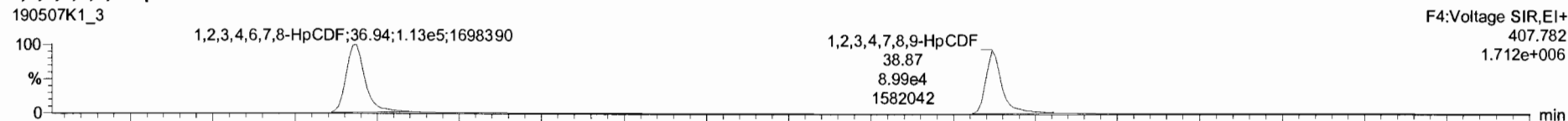


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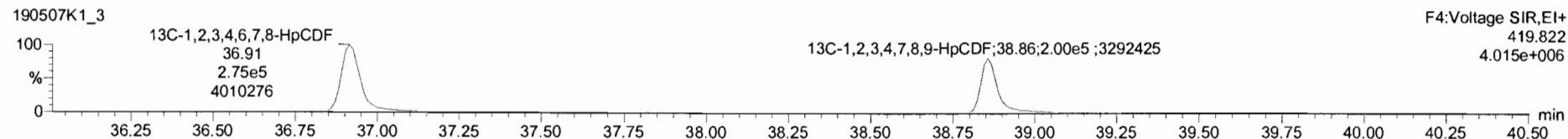
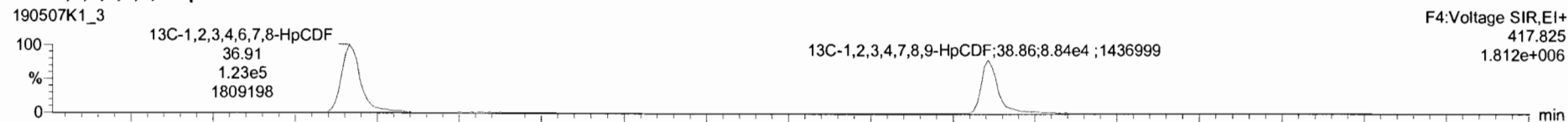
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_3, Date: 07-May-2019, Time: 12:16:36, ID: ST190507K1_3 1613 CS3 19C2204, Description: 1613 CS3 19C2204

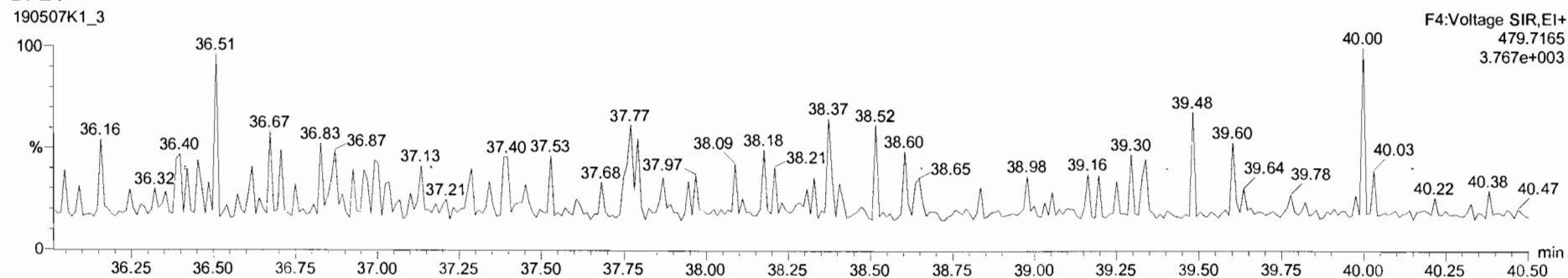
1,2,3,4,6,7,8-HpCDF



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



DPE4

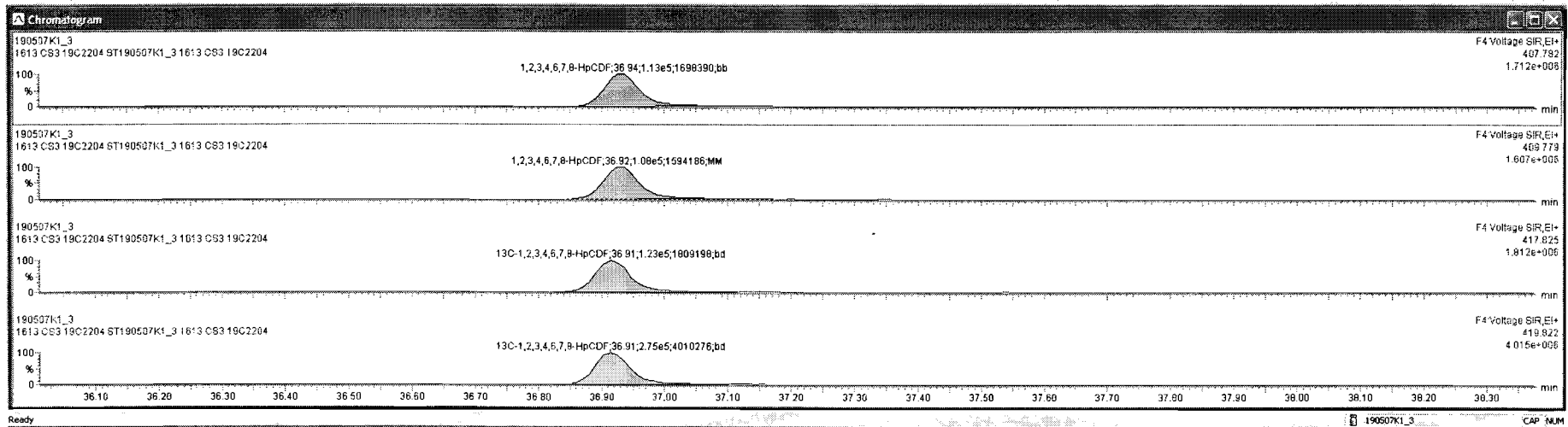


Target: ynx - 190507K1-CRV.qld

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190507K1_3-ST190507K1_3_1613 CS3 19C2204 - 1613 CS3 19C2204

SL	Name	Resp	RA	nY	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	98.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.61	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HxCDD	1.42e5	1.03	NO	1.03	1.000	36.32	1.000	50.1	100	0.364	50.1
7	OCDF	2.35e5	0.90	NO	0.97	1.000	41.46	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0657	9.59
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	98.7	0.135	49.4
10	2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11	1,2,3,4,7,8-HxCDF	2.89e5	1.25	NO	1.24	1.000	33.96	1.001	49.1	98.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13	2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.22e5	1.05	NO	1.13	1.000	36.54	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.89e5	1.10	NO	1.26	1.000	38.67	1.000	46.6	93.2	0.350	46.6
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.78e5	1.05	NO	0.54	1.000	36.31	1.129	100	100	0.557	

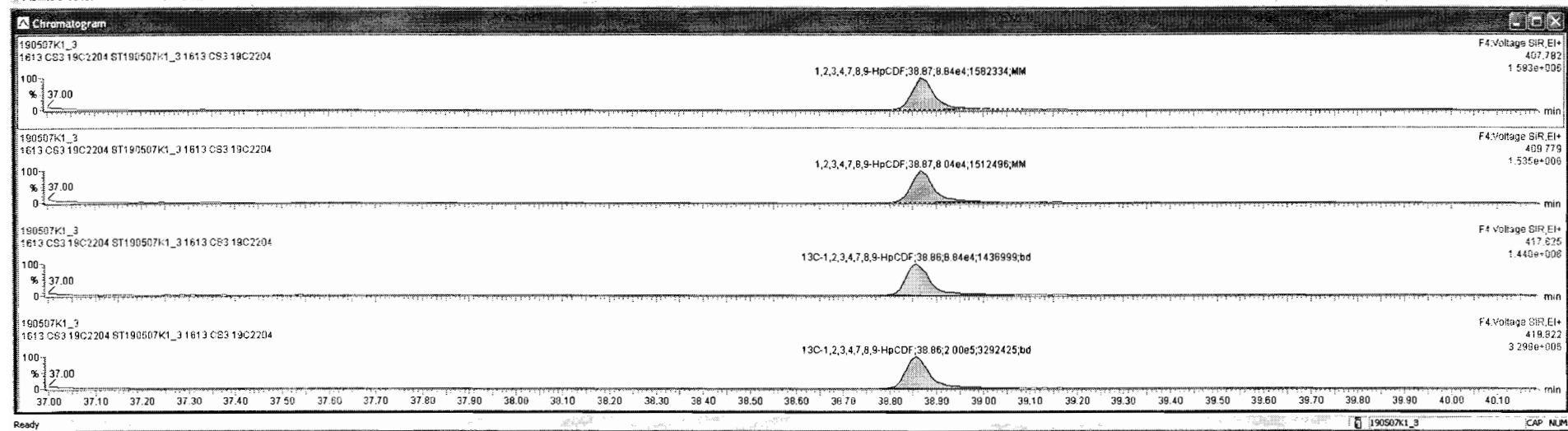


Target: ynx - 190507K1_CRV.qid

File Edit View Display Processing Window Help

190507K1_3 - ST190507K1_3 1613 CS3 19C2204 - 1613 CS3 19C2204

#	Name	Resp	RA	nly	RRF	wtVol	RT	RR1	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.87	96.7	0.0900	9.87
2	1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3	1,2,3,4,7,8-HxCDD	1.78e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4	1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5	1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6	1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	38.32	1.000	50.1	100	0.364	50.1
7	OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8	2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.58	95.9	0.0857	9.59
9	1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	99.7	0.135	49.4
10	2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11	1,2,3,4,7,8-HxCDF	2.89e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	99.2	0.274	49.1
12	1,2,3,6,7,8-HxCDF	3.02e5	1.25	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13	2,3,4,6,7,8-HxCDF	2.75e5	1.25	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14	1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	98.2	0.443	49.1
15	1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	98.5	0.311	49.3
16	1,2,3,4,7,8,9-HpCDF	1.89e5	1.10	NO	1.26	1.000	38.97	1.000	46.6	93.2	0.350	46.6
17	OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	90.4	90.4	0.372	90.4
18	13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	98.4	98.4	0.276	
19	13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20	13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.65	1.000	34.41	1.014	102	102	0.543	
21	13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22	13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.66	1.000	34.80	1.025	102	102	0.529	
23	13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	



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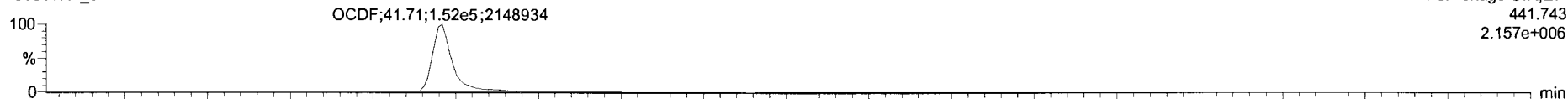
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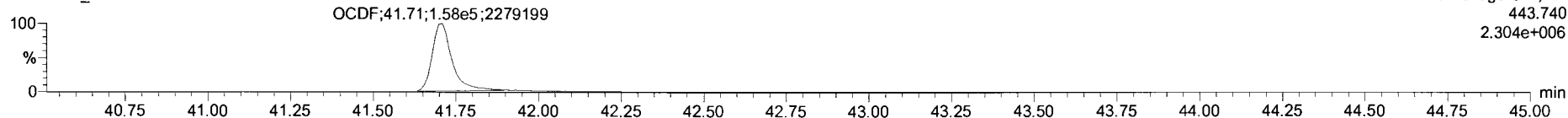
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OCDF

190507K1_3

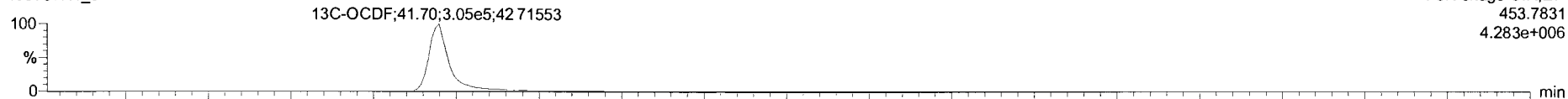


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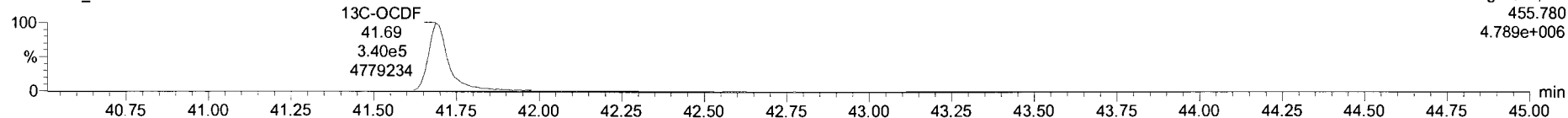


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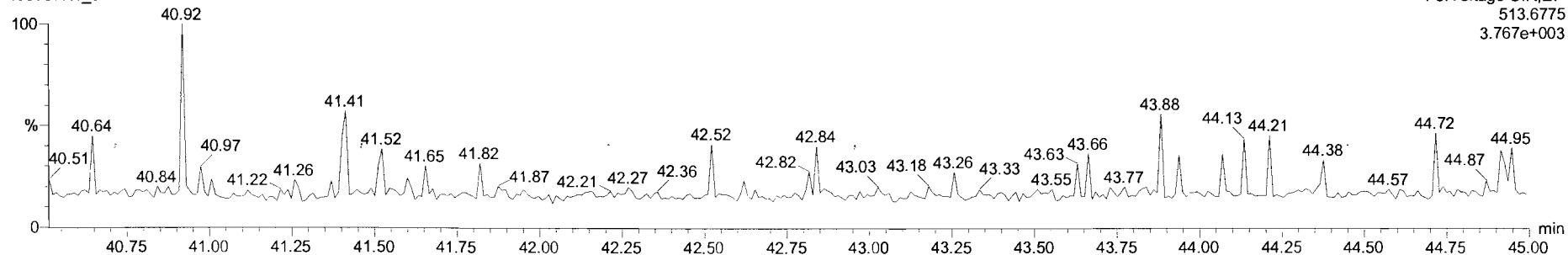


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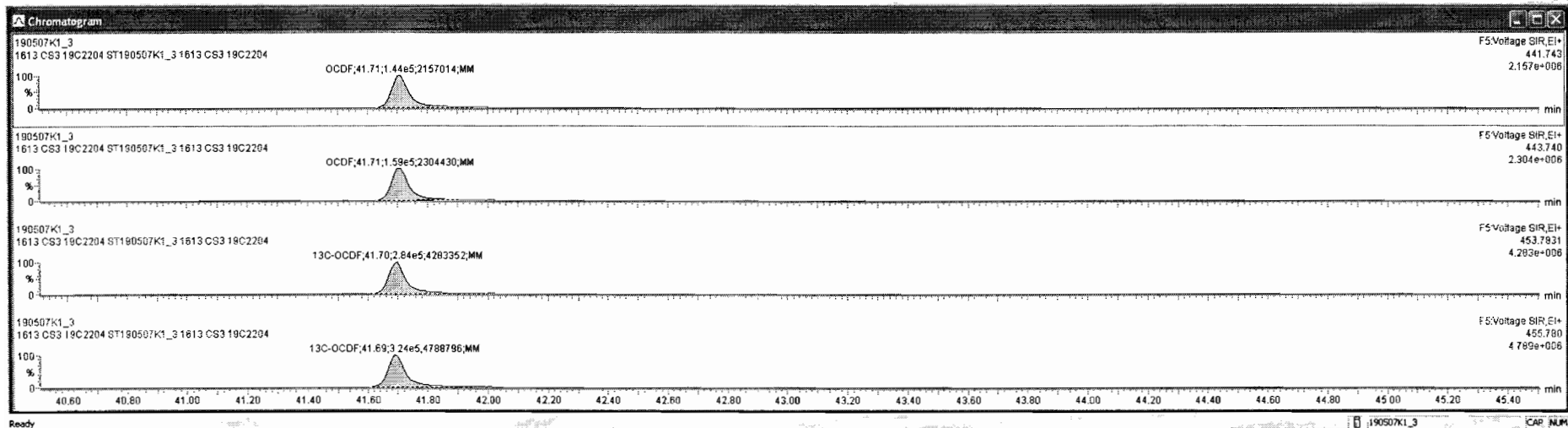
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190507K1_3 - ST190507K1_3 1613 CS3 19C2204 - 1613 CS3 19C2204

Name	Resp	RA	DV	RRF	WtWol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.65e4	0.78	NO	0.92	1.000	26.36	1.001	9.97	99.7	0.0900	9.97
2 1,2,3,7,8-PeCDD	1.80e5	0.63	NO	0.90	1.000	31.14	1.001	44.5	89.0	0.154	44.5
3 1,2,3,4,7,8-HxCDD	1.76e5	1.28	NO	1.07	1.000	34.42	1.000	49.0	98.0	0.299	49.0
4 1,2,3,6,7,8-HxCDD	1.92e5	1.26	NO	0.97	1.000	34.53	1.000	48.5	97.0	0.308	48.5
5 1,2,3,7,8,9-HxCDD	1.63e5	1.35	NO	0.97	1.000	34.81	1.000	48.7	97.3	0.340	48.7
6 1,2,3,4,6,7,8-HpCDD	1.42e5	1.03	NO	1.03	1.000	39.32	1.000	50.1	100	0.364	50.1
7 OCDD	2.35e5	0.90	NO	0.97	1.000	41.48	1.000	103	103	0.327	103
8 2,3,7,8-TCDF	7.75e4	0.78	NO	0.94	1.000	25.51	1.001	9.59	95.9	0.0857	9.59
9 1,2,3,7,8-PeCDF	3.23e5	1.58	NO	0.97	1.000	29.91	1.001	49.4	99.7	0.135	49.4
10 2,3,4,7,8-PeCDF	3.17e5	1.58	NO	1.00	1.000	30.86	1.001	49.7	99.5	0.149	49.7
11 1,2,3,4,7,8-HxCDF	2.89e5	1.25	NO	1.24	1.000	33.56	1.001	49.1	99.2	0.274	49.1
12 1,2,3,6,7,8-HxCDF	3.02e5	1.26	NO	1.09	1.000	33.68	1.000	50.6	101	0.280	50.6
13 2,3,4,6,7,8-HxCDF	2.75e5	1.26	NO	1.18	1.000	34.27	1.001	51.0	102	0.287	51.0
14 1,2,3,7,8,9-HxCDF	2.00e5	1.25	NO	1.07	1.000	35.19	1.000	49.1	99.2	0.443	49.1
15 1,2,3,4,6,7,8-HpCDF	2.21e5	1.05	NO	1.13	1.000	36.94	1.001	49.3	99.5	0.311	49.3
16 1,2,3,4,7,8,9-HpCDF	1.69e5	1.10	NO	1.26	1.000	38.67	1.000	46.8	93.2	0.350	46.8
17 OCDF	3.03e5	0.90	NO	1.10	1.000	41.71	1.000	80.4	80.4	0.372	80.4
18 13C-2,3,7,8-TCDD	6.19e5	0.80	NO	1.05	1.000	26.34	1.026	99.4	99.4	0.276	
19 13C-1,2,3,7,8-PeCDD	4.47e5	0.61	NO	0.74	1.000	31.12	1.212	100	100	0.183	
20 13C-1,2,3,4,7,8-HxCDD	3.36e5	1.24	NO	0.85	1.000	34.41	1.014	102	102	0.543	
21 13C-1,2,3,6,7,8-HxCDD	4.10e5	1.25	NO	0.78	1.000	34.52	1.017	103	103	0.452	
22 13C-1,2,3,7,8,9-HxCDD	3.44e5	1.18	NO	0.86	1.000	34.80	1.025	102	102	0.529	
23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.54	1.000	38.31	1.129	100	100	0.557	

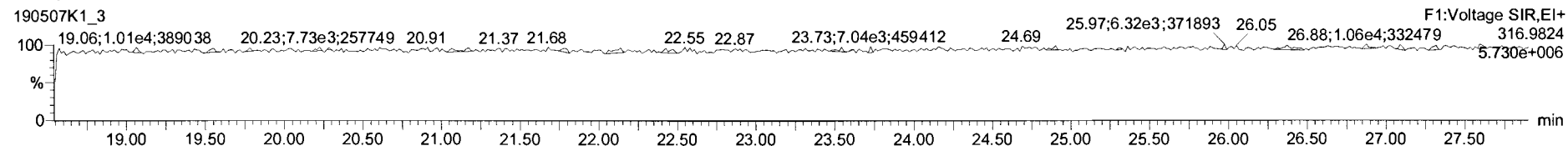


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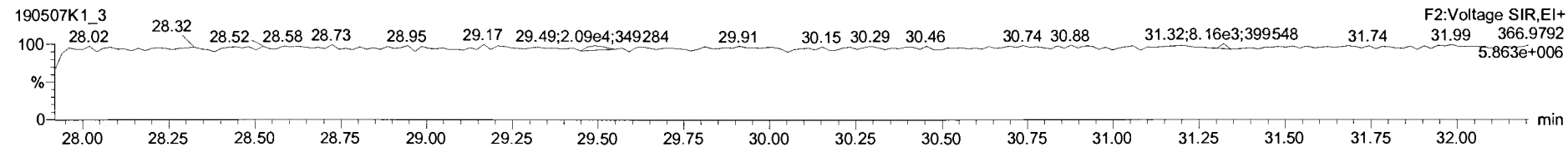
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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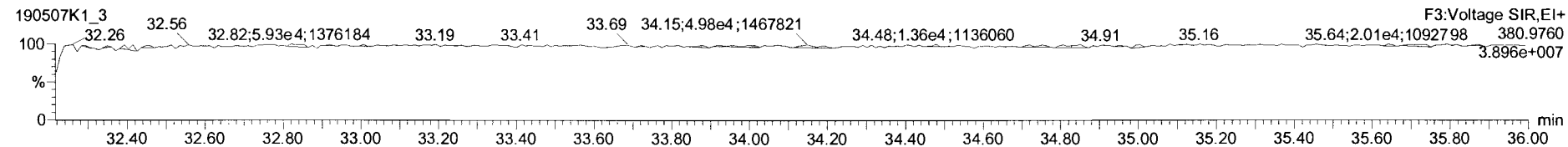
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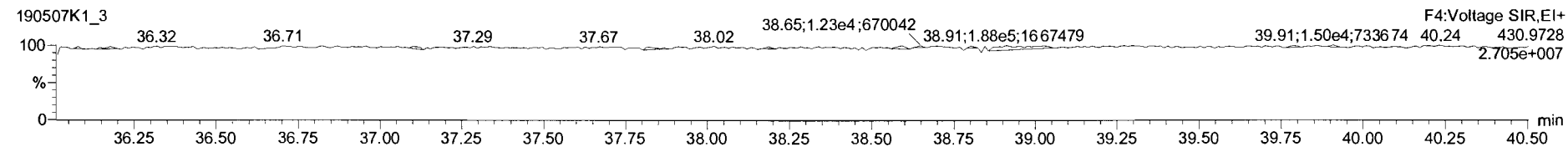
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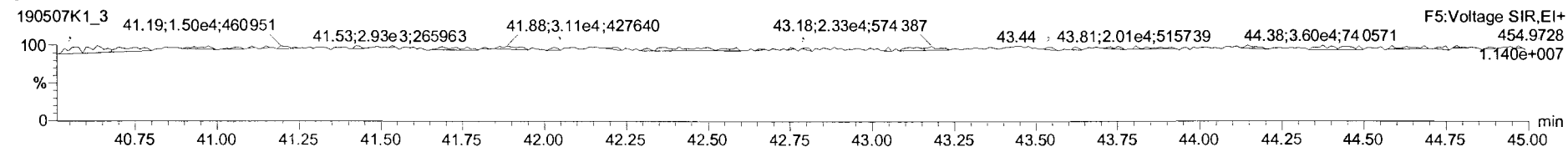
PFK3



PFK4



PFK5



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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

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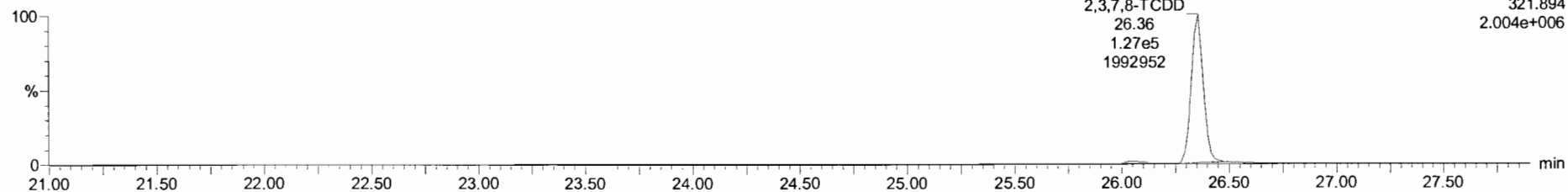
2,3,7,8-TCDD

190507K1_6



F1:Voltage SIR,EI+
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1.616e+006

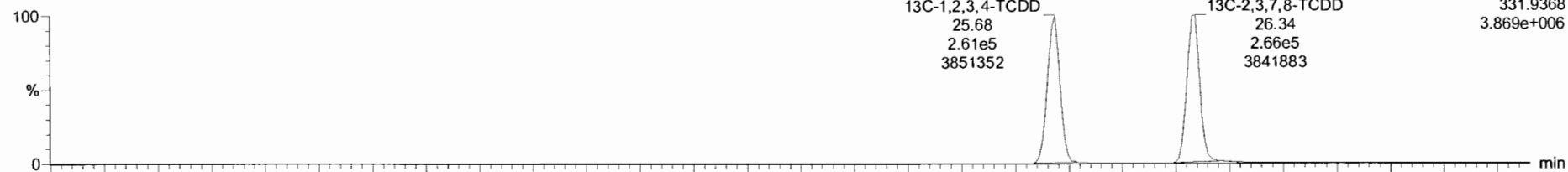
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F1:Voltage SIR,EI+
321.894
2.004e+006

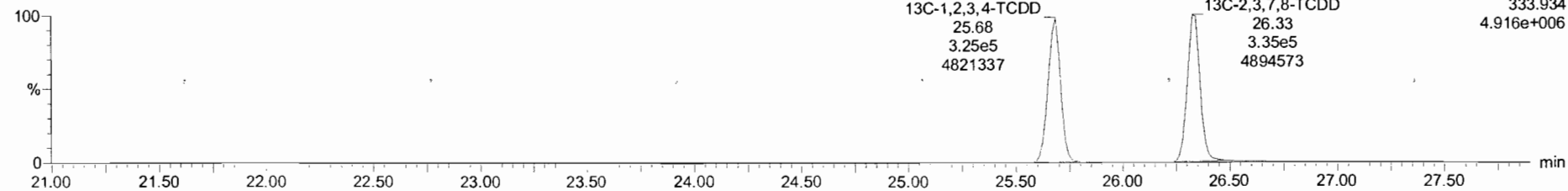
13C-2,3,7,8-TCDD

190507K1_6



F1:Voltage SIR,EI+
331.9368
3.869e+006

190507K1_6



F1:Voltage SIR,EI+
333.934
4.916e+006

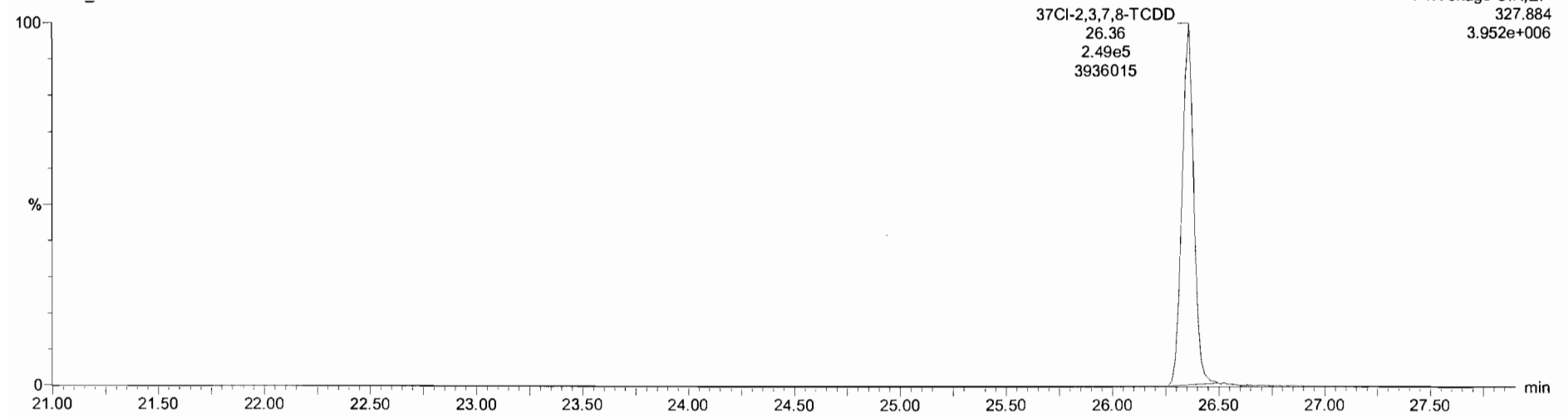
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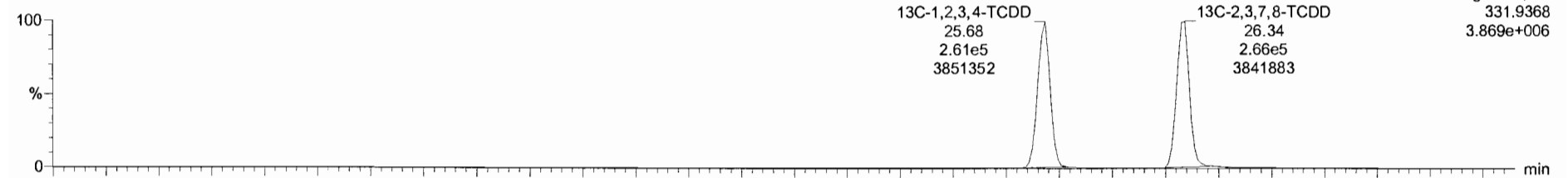
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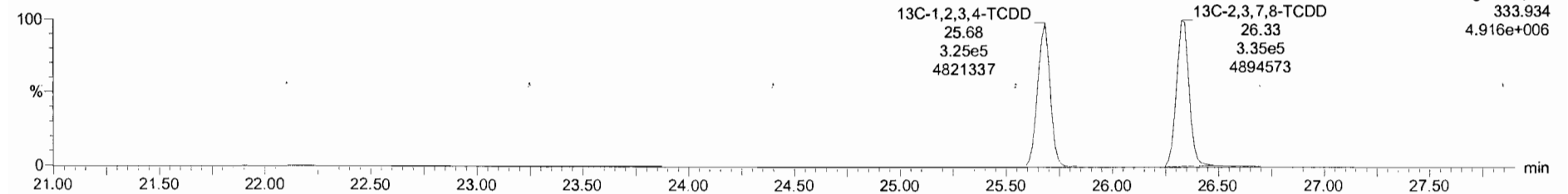


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190507K1_6



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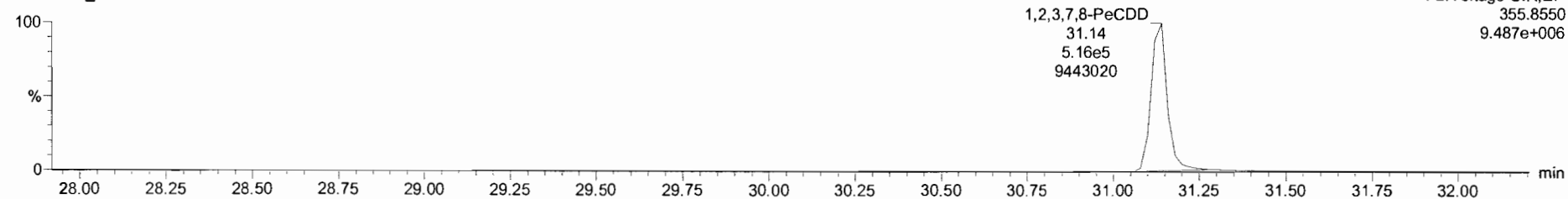
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1,2,3,7,8-PeCDD

190507K1_6

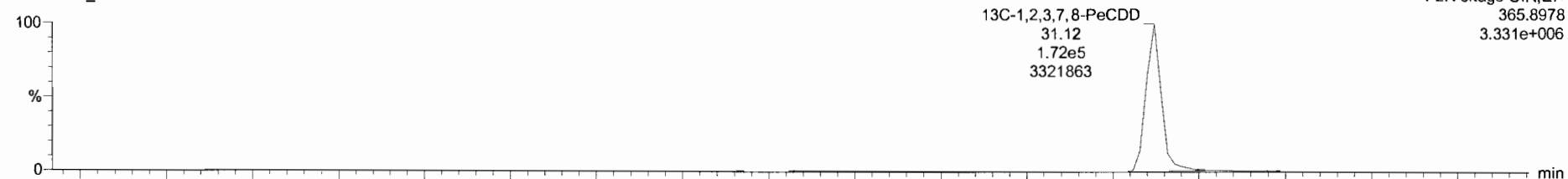


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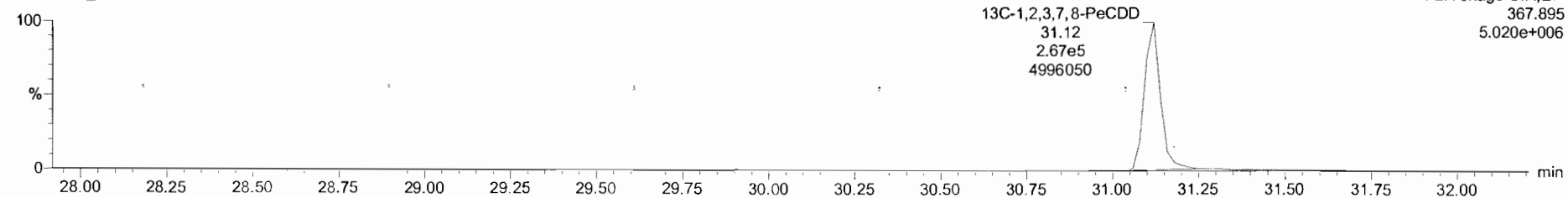


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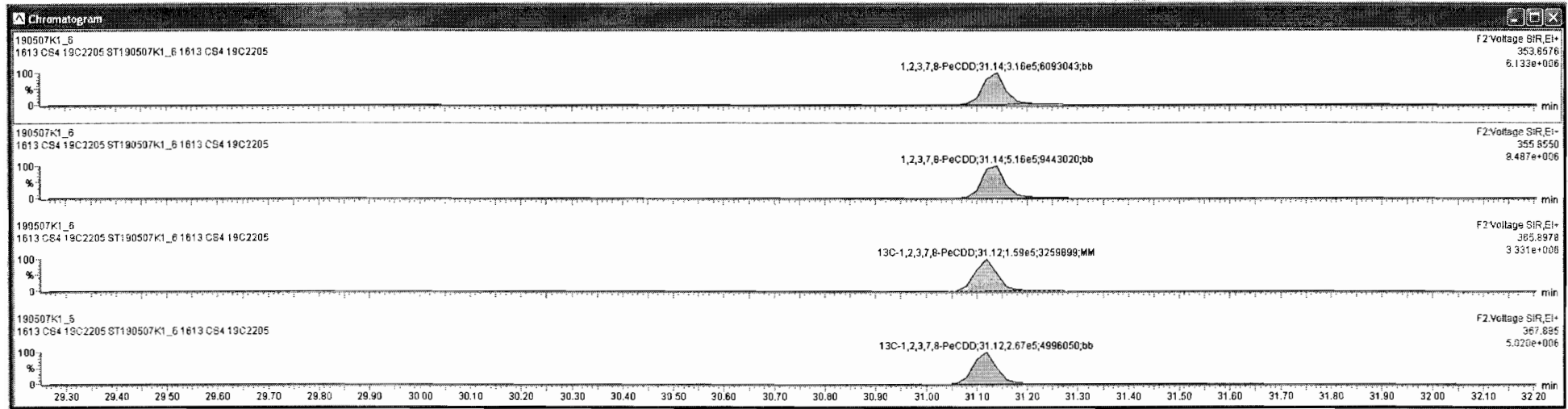


190507K1_6



190507K1_6 - ST190507K1_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0876	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	198	0.152	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.366	210
4 1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.367	211
5 1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.97	1.000	34.80	1.000	204	102	0.434	204
6 1,2,3,6,7,8-HpCDD	5.83e5	1.03	NO	1.03	1.000	38.31	1.000	194	97.0	0.503	194
7 OCDD	9.61e5	0.89	NO	0.97	1.000	41.47	1.000	410	102	0.534	410
8 2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0721	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.87	1.000	29.89	1.000	214	107	0.142	214
10 2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.124	214
11 1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.310	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.306	211
13 2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.16	1.000	34.26	1.001	216	108	0.314	216
14 1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.483	221
15 1,2,3,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.435	208
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.507	217
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.484	378
18 13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.223	
19 13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.303	
20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	98.5	98.5	0.789	
21 13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.656	
22 13C-1,2,3,7,8,9-HxCDD	3.37e5	1.40	NO	0.66	1.000	34.78	1.025	100	100	0.789	
23 13C-1,2,3,4,6,7,8-HpCDD	2.93e5	1.05	NO	0.54	1.000	38.30	1.129	106	106	0.468	



Dataset: Untitled

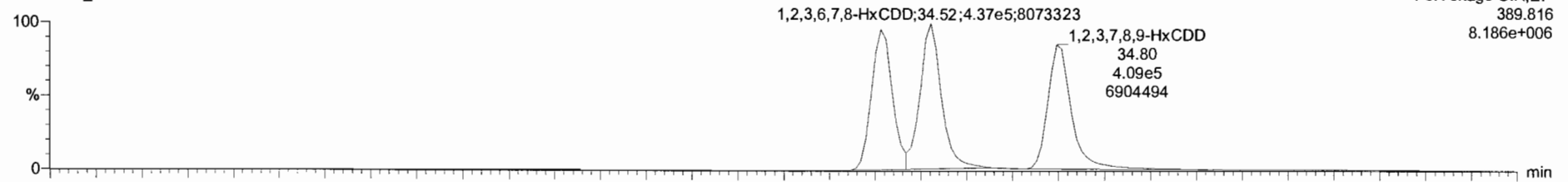
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

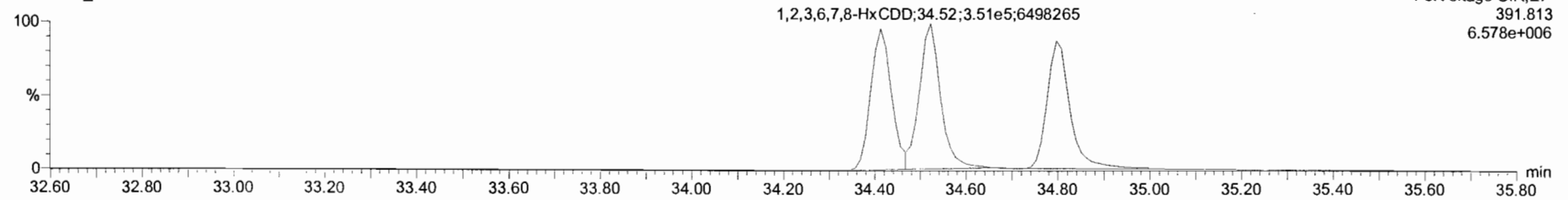
1,2,3,4,7,8-HxCDD

190507K1_6



F3: Voltage SIR, EI+
389.816
8.186e+006

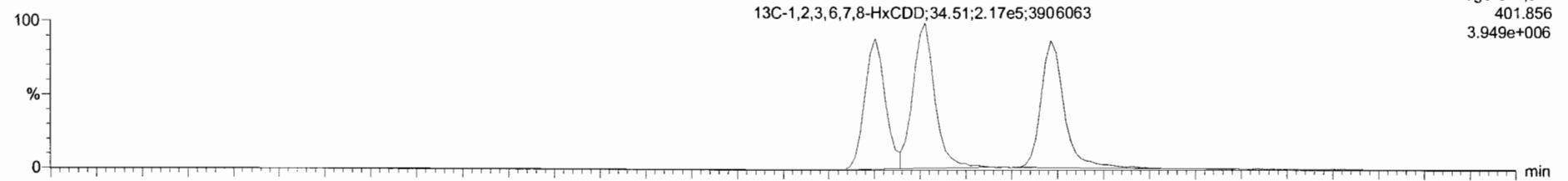
190507K1_6



F3: Voltage SIR, EI+
391.813
6.578e+006

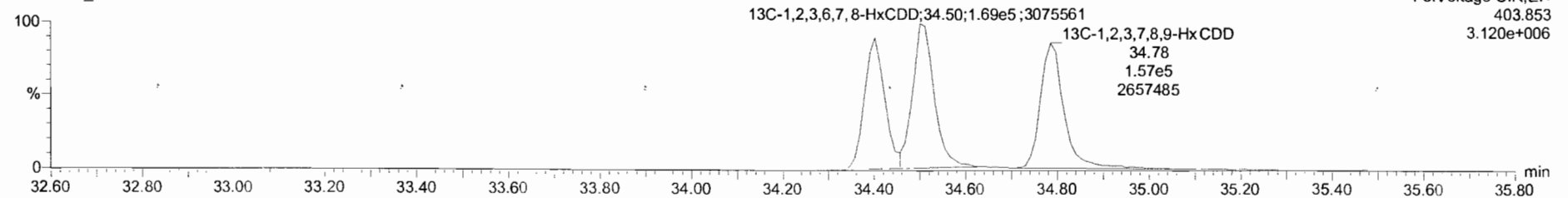
13C-1,2,3,4,7,8-HxCDD

190507K1_6



F3: Voltage SIR, EI+
401.856
3.949e+006

190507K1_6



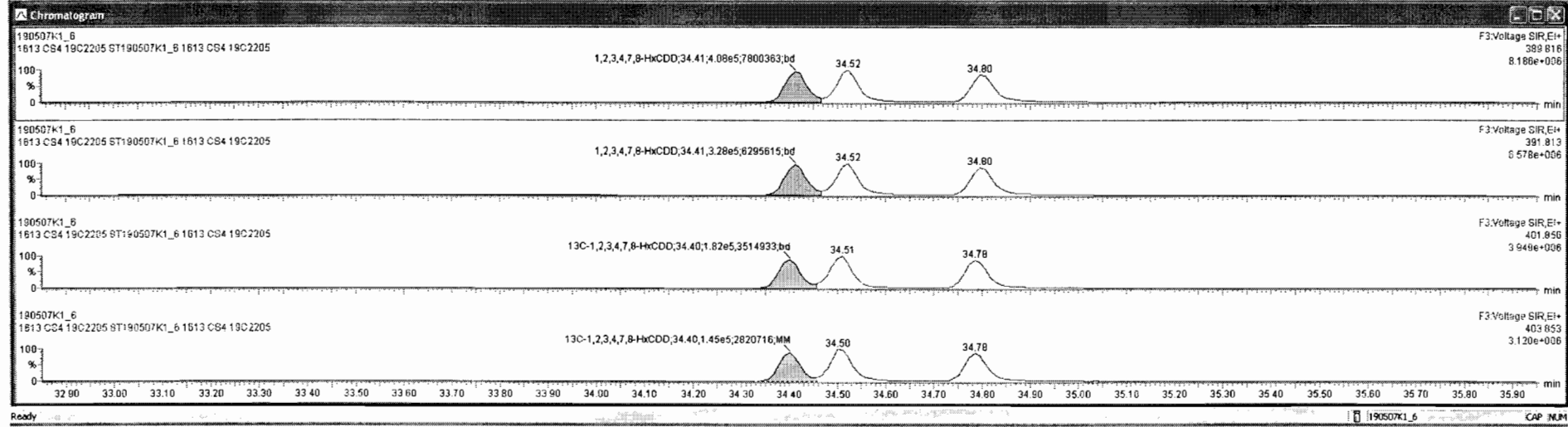
F3: Voltage SIR, EI+
403.853
3.120e+006

Target:lynx - 190507K1-CRY.qld

File Edit View Display Processing Window Help

190507K1_6 - ST190507K1_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Name	Resp	RA	nA	RRF	wtAval	RT	RRT	Conc.	%Rec	DL	EMPC	
1	2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0676	40.7
2	1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.152	216
3	1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.366	210
4	1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.367	211
5	1,2,3,7,8-HxCDD	6.68e5	1.22	NO	0.97	1.000	34.80	1.000	204	102	0.434	204
6	1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.03	1.000	38.31	1.000	194	97.0	0.503	194
7	OCDD	9.61e5	0.89	NO	0.97	1.000	41.47	1.000	410	102	0.534	410
8	2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0721	42.0
9	1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.142	214
10	2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.66	1.001	214	107	0.124	214
11	1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.310	211
12	1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.306	211
13	2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.314	216
14	1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.483	221
15	1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.435	208
16	1,2,3,4,7,8,9-HpCDF	7.13e5	1.06	NO	1.26	1.000	38.88	1.000	217	109	0.507	217
17	OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.464	378
18	13C-2,3,7,8-TCDD	5.01e5	0.78	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.223	
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.303	
20	13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.789	
21	13C-1,2,3,6,7,8-HxCDD	3.86e5	1.26	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.656	
22	13C-1,2,3,7,8-HxCDD	3.37e5	1.40	NO	0.66	1.000	34.78	1.025	100	100	0.769	
23	13C-1,2,3,4,6,7,8-HpCDD	2.93e5	1.05	NO	0.54	1.000	36.30	1.129	106	106	0.488	

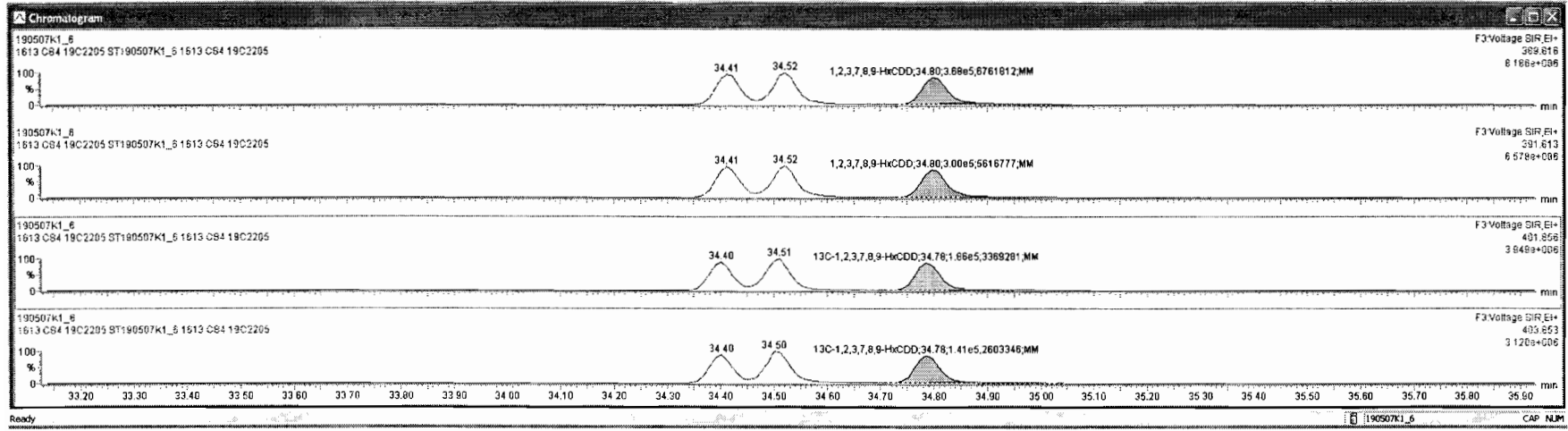


TargetLynx - 190507K1_CRY.qld

File Edit View Display Processing Window Help

190507K1_6 - ST190507K1_6 1613 CS4 19C2205 - 1613 CS4 19C2205

SL	Name	Resp	RA	inj	RRF	wtVoi	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2	1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3	1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4	1,2,3,6,7,8-HxCDD	7.89e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5	1,2,3,7,8,9-HxCDD	8.89e5	1.22	NO	0.98	1.000	34.80	1.000	208	105	0.356	208
6	1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.03	1.000	38.31	1.000	194	97.0	0.419	194
7	OCDD	9.61e5	0.80	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8	2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9	1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10	2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11	1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12	1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13	2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14	1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15	1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.363	208
16	1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17	OCDF	1.21e6	0.80	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18	13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20	13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.657	
21	13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22	13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.66	1.000	34.78	1.025	97.2	97.2	0.644	
23	13C-1,2,3,4,6,7,8-HpCDD	2.93e5	1.05	NO	0.54	1.000	38.30	1.128	106	106	0.390	



Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

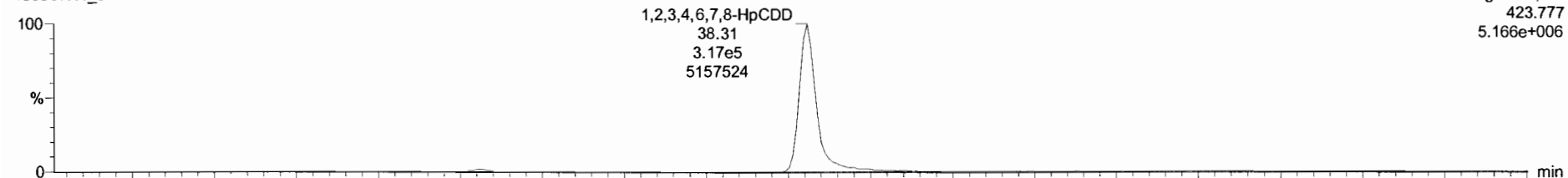
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

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

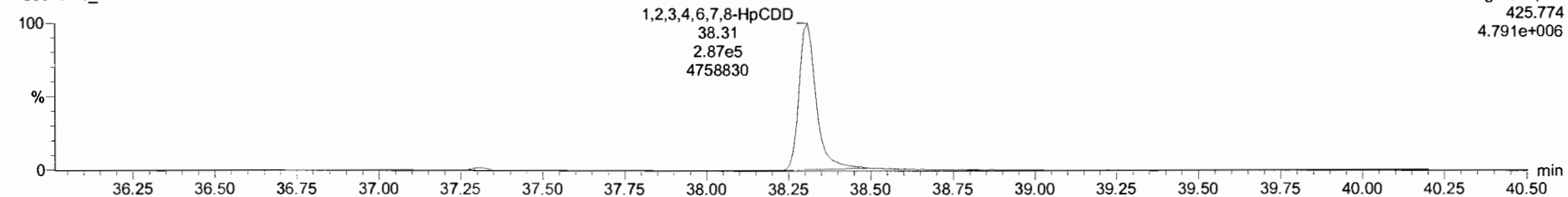
190507K1_6

F4:Voltage SIR,EI+
423.777
5.166e+006



190507K1_6

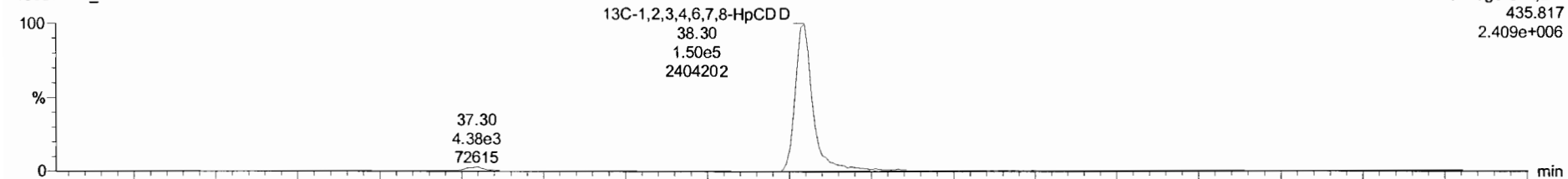
F4:Voltage SIR,EI+
425.774
4.791e+006



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

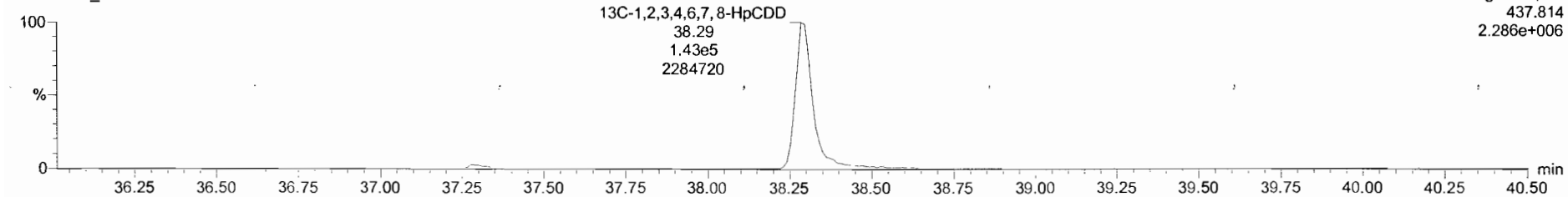
190507K1_6

F4:Voltage SIR,EI+
435.817
2.409e+006



190507K1_6

F4:Voltage SIR,EI+
437.814
2.286e+006

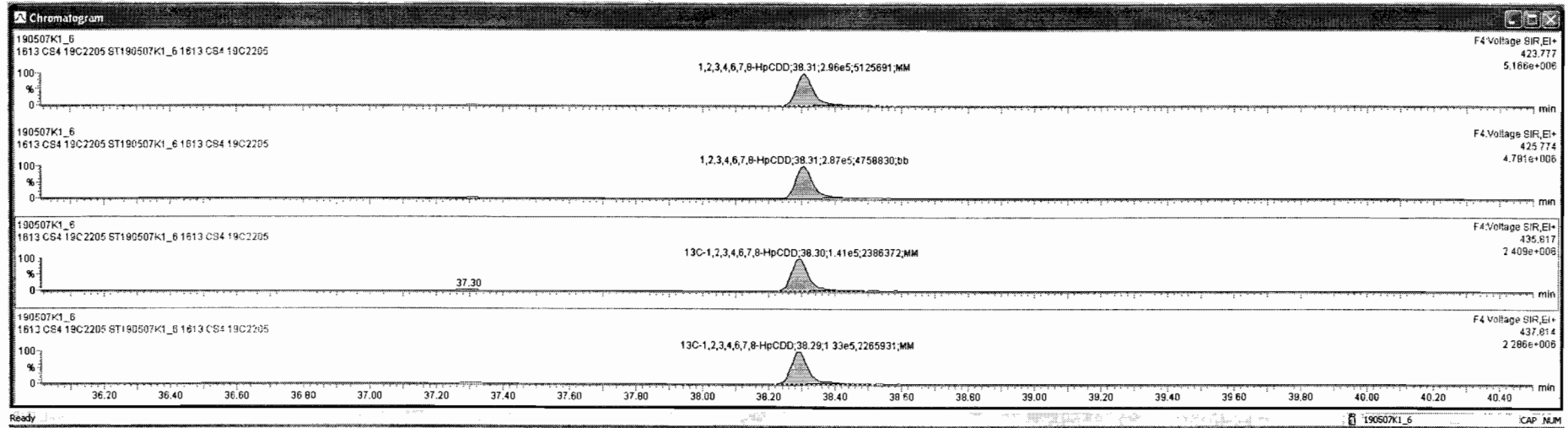


TargetLynx 190507K1_6.DRV.qld

File Edit View Display Processing Window Help

190507K1_6 - ST190507K1_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Name	Resp	RA	riy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4 1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5 1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6 1,2,3,4,6,7,8-HpCDD	5.29e5	1.03	NO	1.04	1.000	38.31	1.000	205	102	0.423	205
7 OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8 2,3,7,8-TCDF	3.19e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10 2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11 1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13 2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14 1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15 1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.363	208
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18 13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19 13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.657	
21 13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22 13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.66	1.000	34.78	1.025	97.3	97.3	0.644	
23 13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.06	NO	0.53	1.000	38.30	1.129	101	101	0.394	



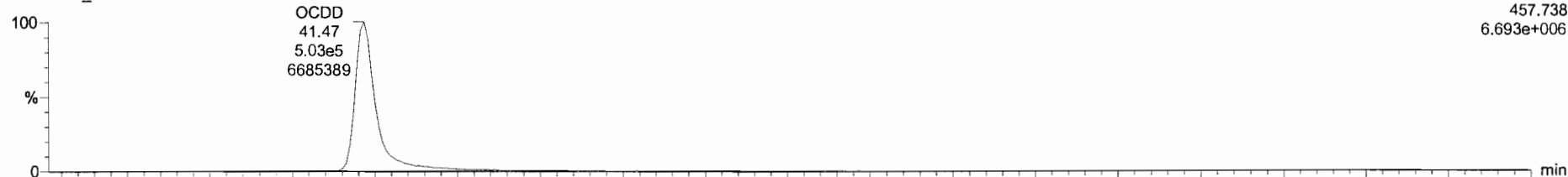
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_6, Date: 07-May-2019, Time: 14:39:24, ID: ST190507K1_6 1613 CS4 19C2205, Description: 1613 CS4 19C2205

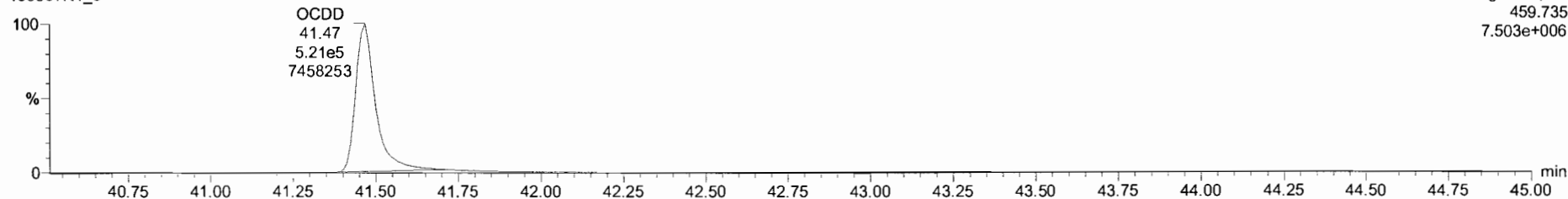
OCDD

190507K1_6



F5:Voltage SIR,EI+
457.738
6.693e+006

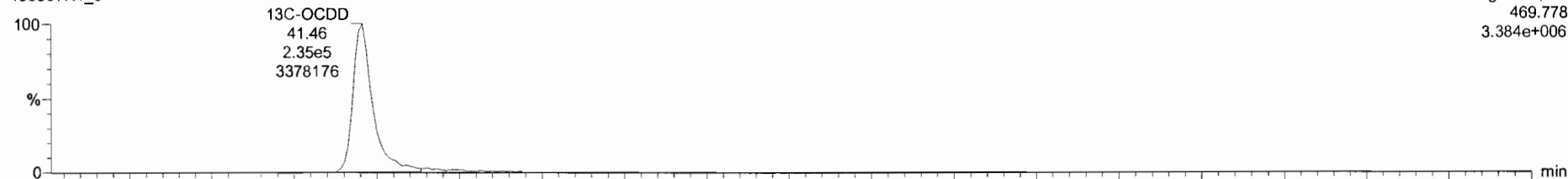
190507K1_6



F5:Voltage SIR,EI+
459.735
7.503e+006

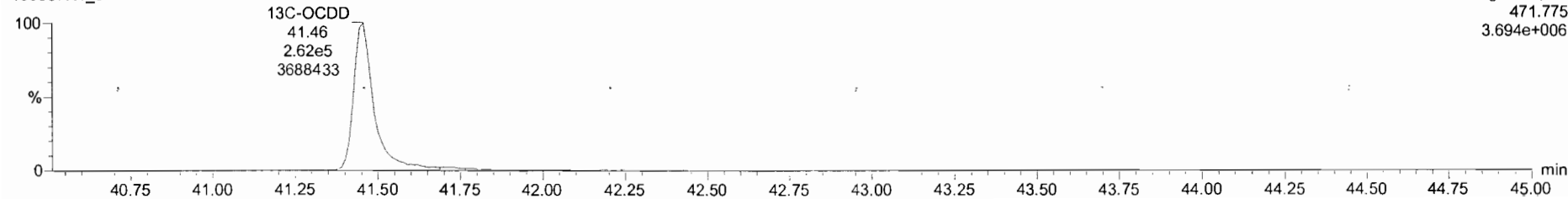
13C-OCDD

190507K1_6



F5:Voltage SIR,EI+
469.778
3.384e+006

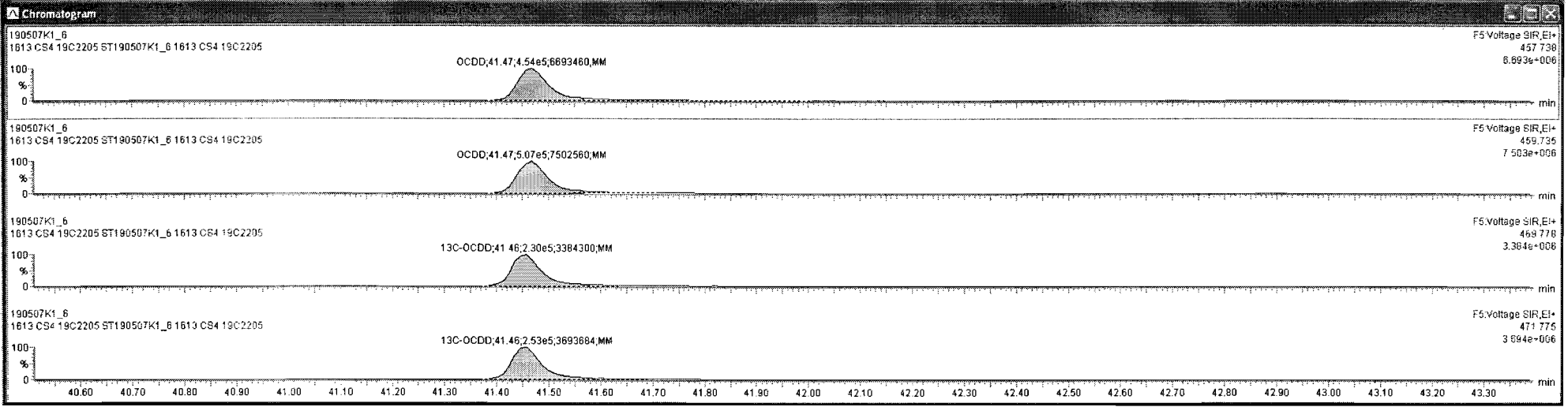
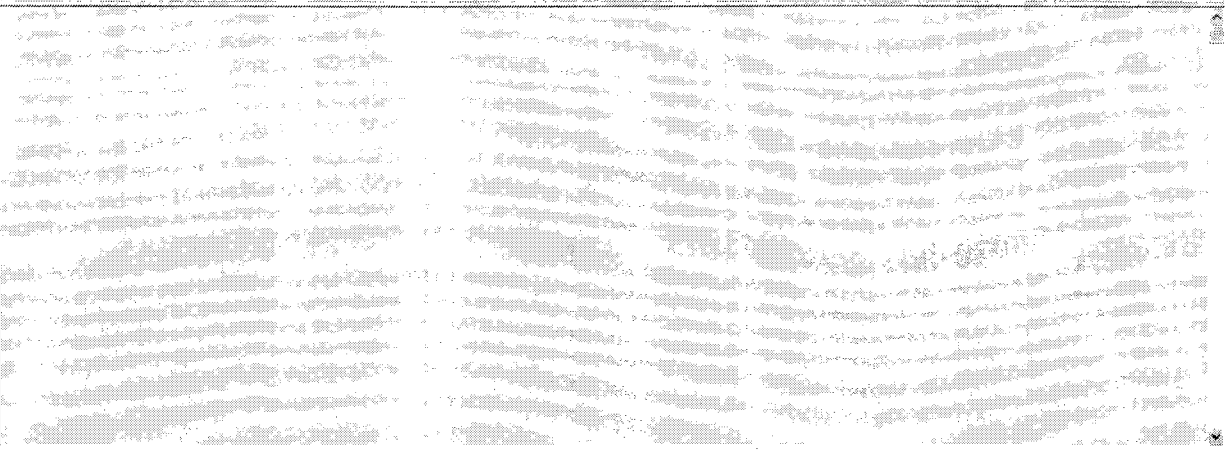
190507K1_6



F5:Voltage SIR,EI+
471.775
3.694e+006

190507K1_6 - ST190507K1_6 1613 CS4 19C2205 - 1613 CS4 19C2205

1	Name	Resp	RA	NA	RRF	wt/wt	RT	RRV	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.29e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2	1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3	1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4	1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5	1,2,3,7,8,9-HxCDD	6.69e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6	1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.04	1.000	38.31	1.000	205	102	0.421	205
7	OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8	2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9	1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10	2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11	1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12	1,2,3,6,7,8-HxCDF	1.19e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13	2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14	1,2,3,7,8,9-HxCDF	9.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15	1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	209	104	0.363	208
16	1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17	OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	376	94.5	0.367	376
18	13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20	13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.657	
21	13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22	13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.66	1.000	34.78	1.025	97.3	97.3	0.644	
23	13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.06	NO	0.53	1.000	38.30	1.129	101	101	0.394	



Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

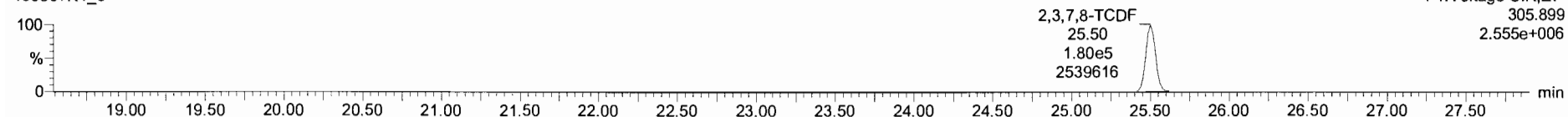
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2,3,7,8-TCDF

190507K1_6

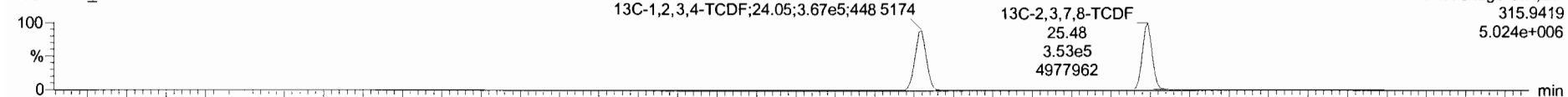


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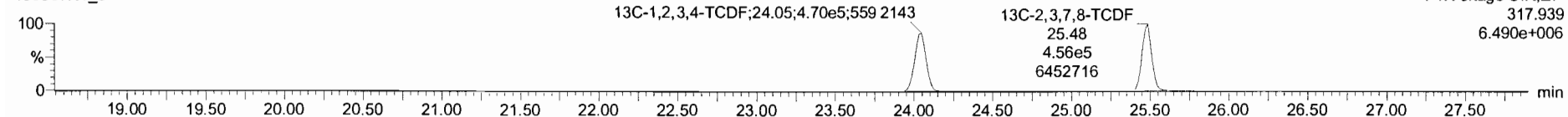


13C-2,3,7,8-TCDF

190507K1_6

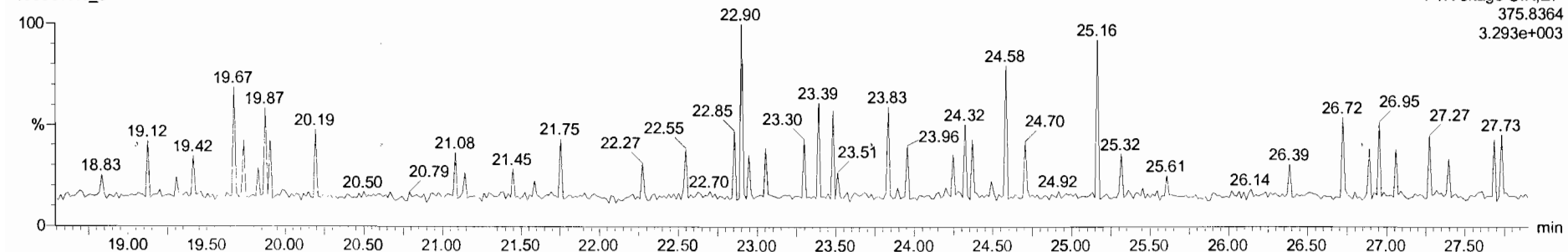


190507K1_6



DPE1

190507K1_6



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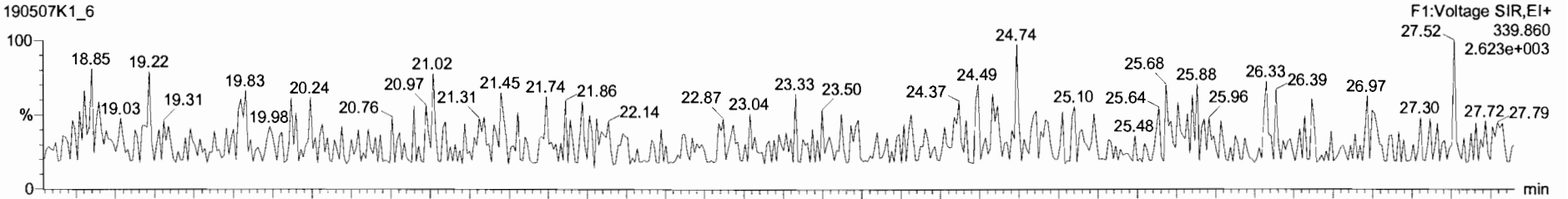
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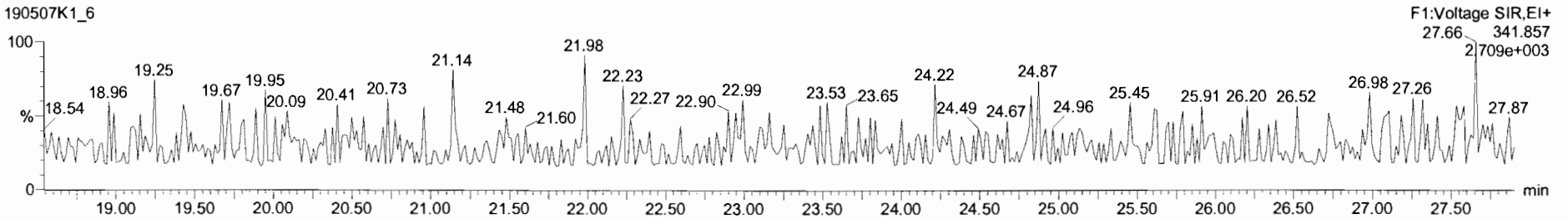
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1st Func. Penta-Furans

190507K1_6

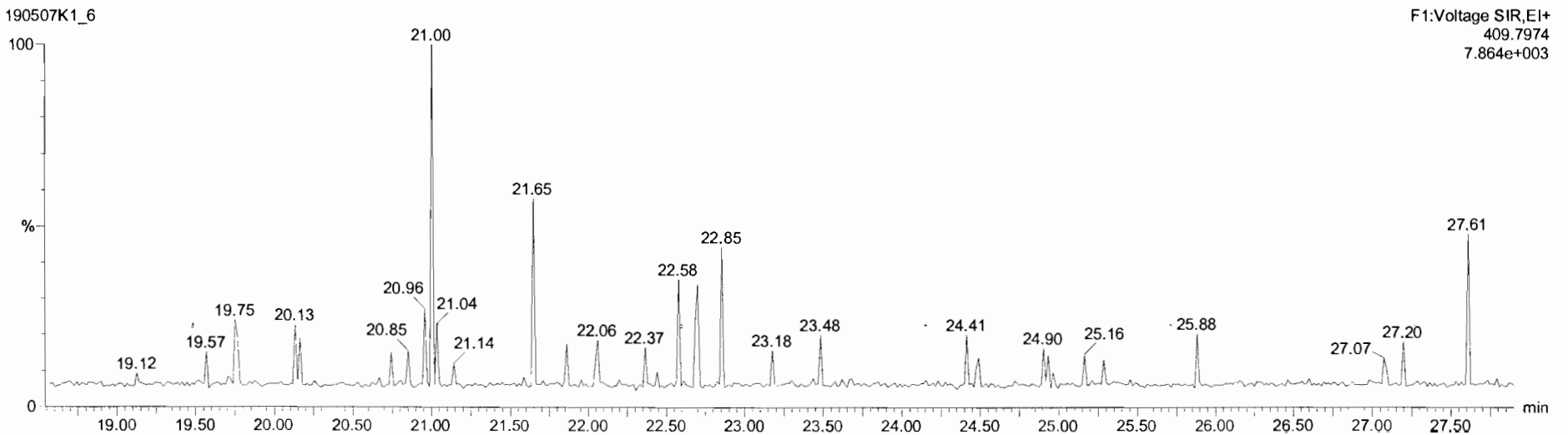


190507K1_6



DPE6

190507K1_6



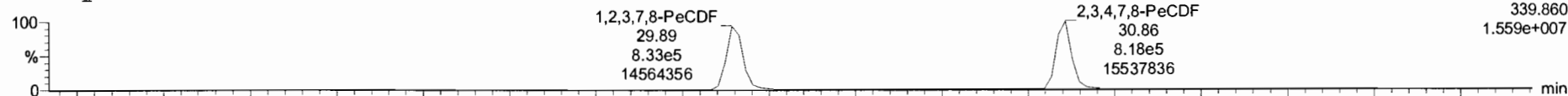
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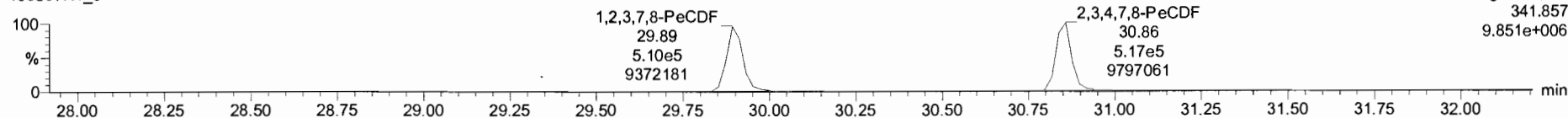
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1,2,3,7,8-PeCDF

190507K1_6

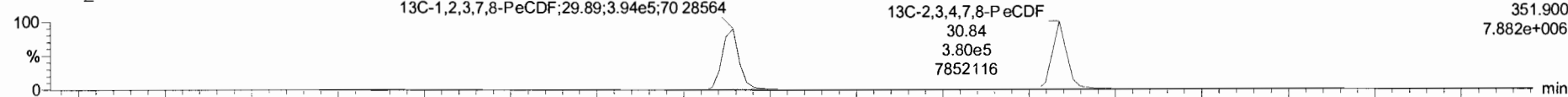


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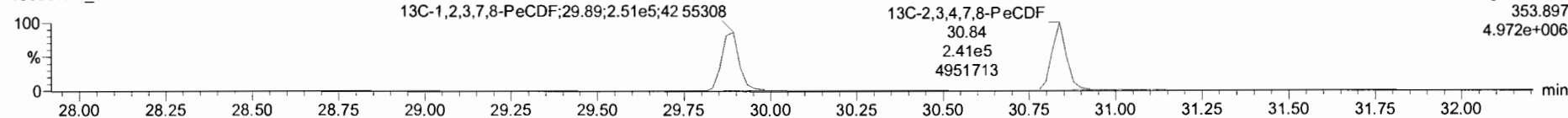


13C-1,2,3,7,8-PeCDF

190507K1_6

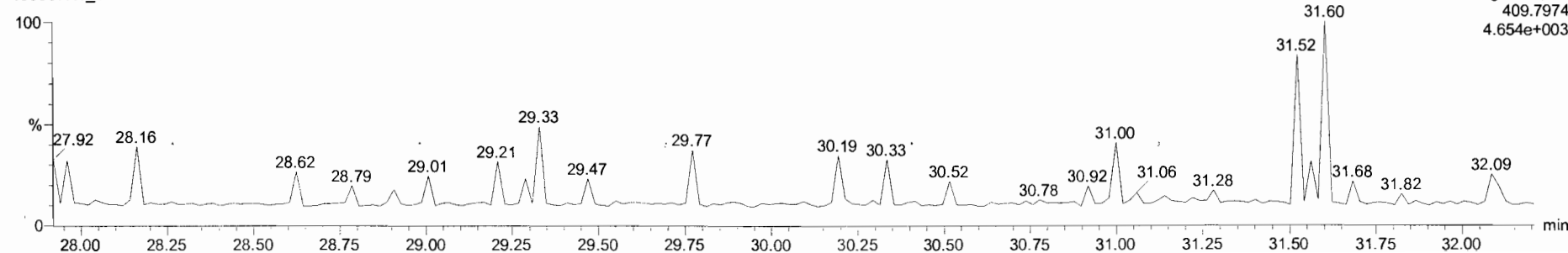


190507K1_6



DPE2

190507K1_6



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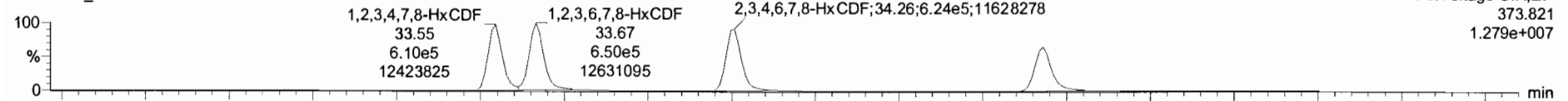
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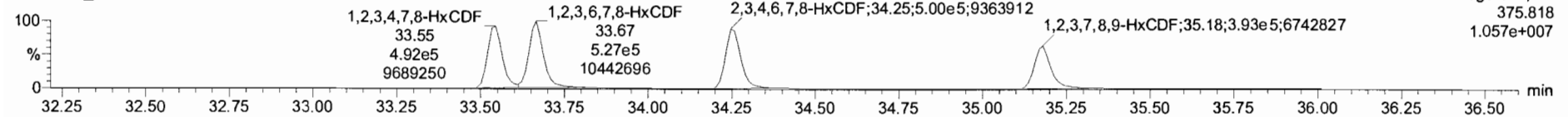
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1,2,3,4,7,8-HxCDF

190507K1_6

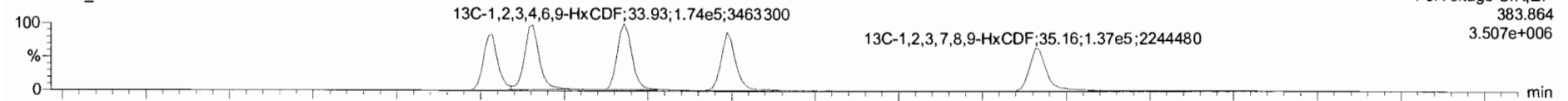


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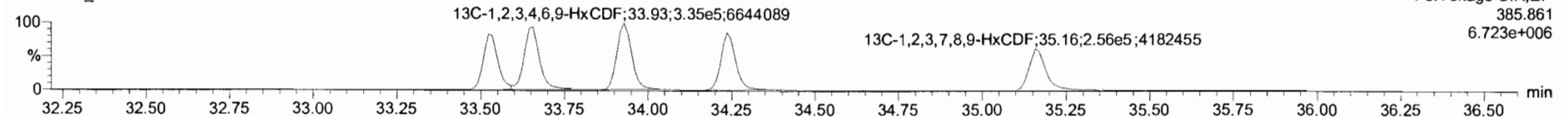


13C-1,2,3,4,7,8-HxCDF

190507K1_6

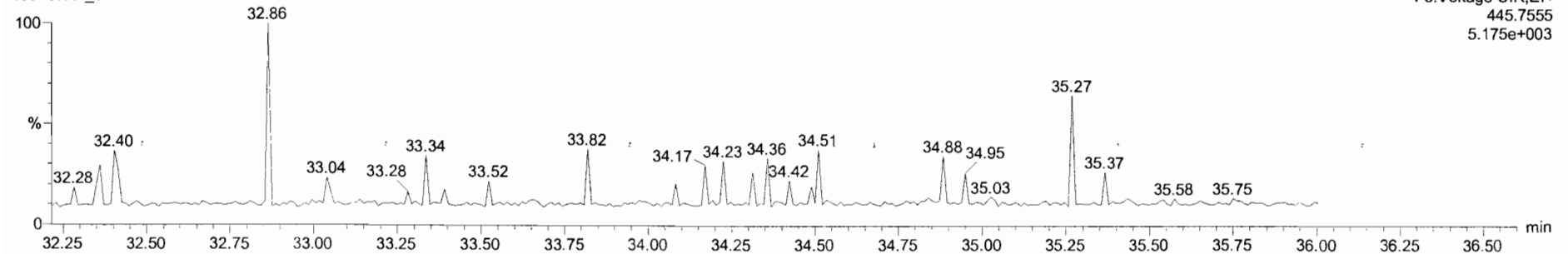


190507K1_6



DPE3

190507K1_6

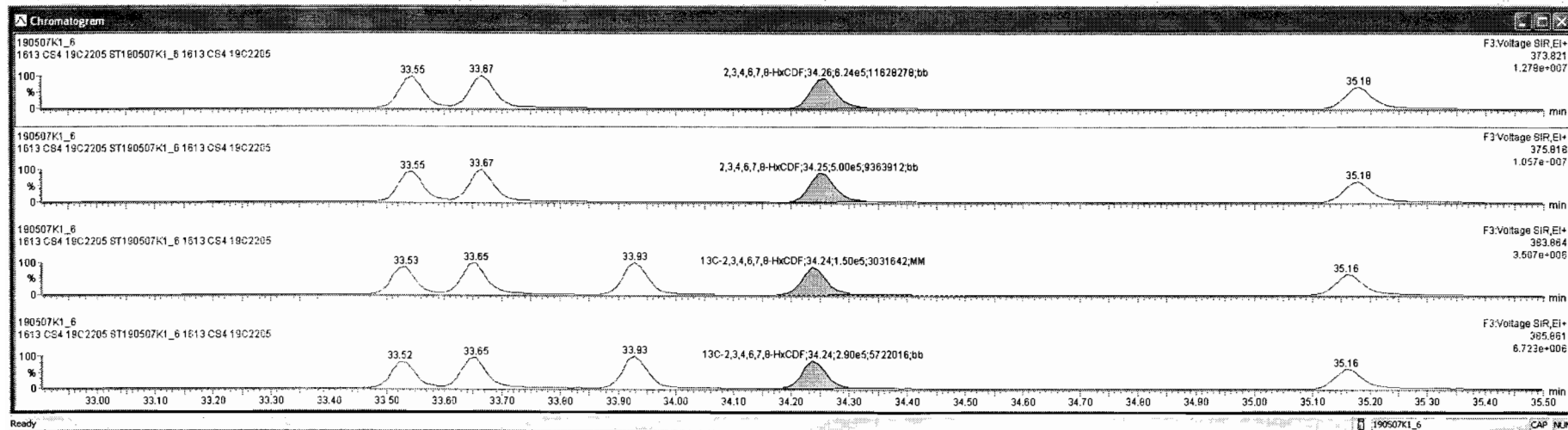


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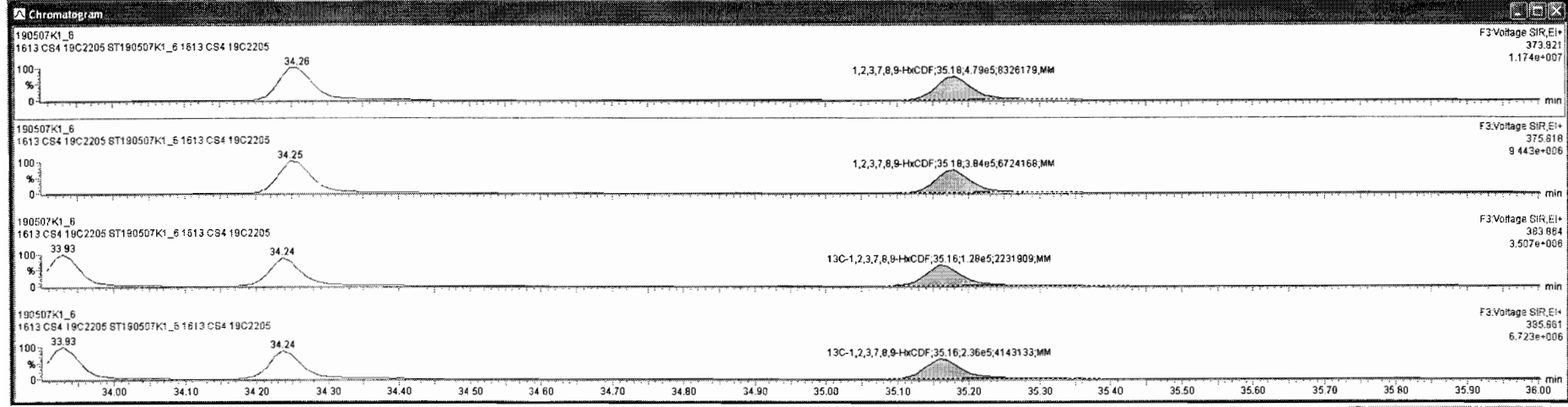
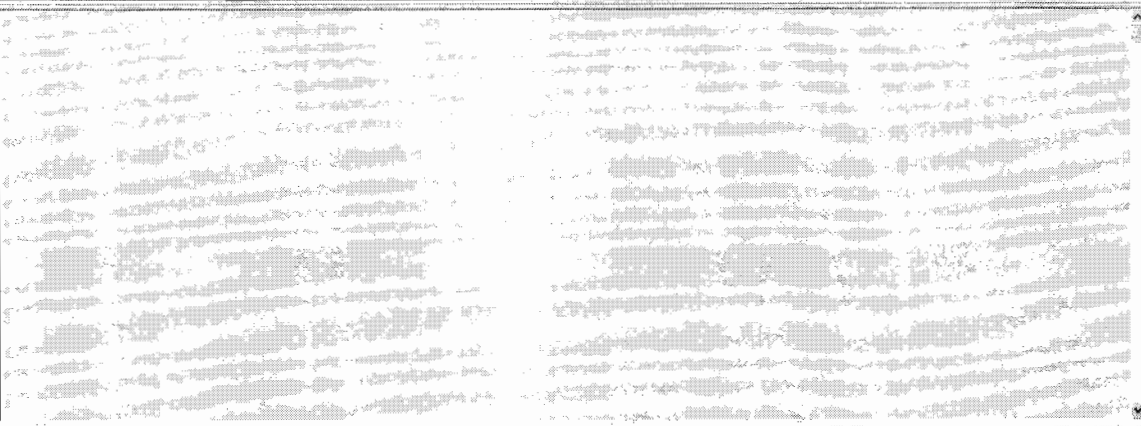
190507K1_6 - ST190507K1_6 1613 CS4 19C2205 - 1613 CS4 19C2205

#	Name	Resp	RA	oxy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2	1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	218	108	0.127	216
3	1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4	1,2,3,6,7,8-HxCDD	7.86e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5	1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.96	1.000	34.80	1.000	209	105	0.356	209
6	1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.04	1.000	38.31	1.000	205	102	0.421	205
7	OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8	2,3,7,8-TCDF	3.19e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0801	42.0
9	1,2,3,7,8-PeCDF	1.34e5	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10	2,3,4,7,8-PeCDF	1.34e5	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11	1,2,3,4,7,8-HxCDF	1.10e5	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12	1,2,3,6,7,8-HxCDF	1.18e5	1.23	NO	1.10	1.000	33.67	1.000	211	108	0.255	211
13	2,3,4,6,7,8-HxCDF	1.12e5	1.25	NO	1.10	1.000	34.26	1.001	210	108	0.262	210
14	1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.19	1.001	221	110	0.402	221
15	1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.363	208
16	1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17	OCDF	1.21e5	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18	13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20	13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.657	
21	13C-1,2,3,6,7,8-HxCDD	3.86e5	1.26	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22	13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.66	1.000	34.78	1.025	97.3	97.3	0.644	
23	13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.06	NO	0.53	1.000	38.30	1.129	101	101	0.394	



190507K1_6 - ST190507K1_6 1613 CS4 19C2205 - 1613 CS4 19C2205

Name	Resp	RA	NY	RRF	WtVol	RT	RRT	Conc.	%Rec	DL	EMEC
1 2,3,7,8-TCDD	2.29e5	0.78	NO	0.52	1.000	26.36	1.001	40.7	102	0.0730	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.51	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4 1,2,3,6,7,8-HxCDD	7.89e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5 1,2,3,7,8,9-HxCDD	6.69e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6 1,2,3,4,6,7,8-HpCDD	5.89e5	1.03	NO	1.04	1.000	38.31	1.000	205	102	0.421	205
7 OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8 2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10 2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11 1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13 2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14 1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15 1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.363	208
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18 13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19 13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.65	1.000	34.40	1.014	99.5	99.5	0.657	
21 13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22 13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.66	1.000	34.78	1.025	97.3	97.3	0.644	
23 13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.08	NO	0.53	1.000	38.30	1.129	101	101	0.394	



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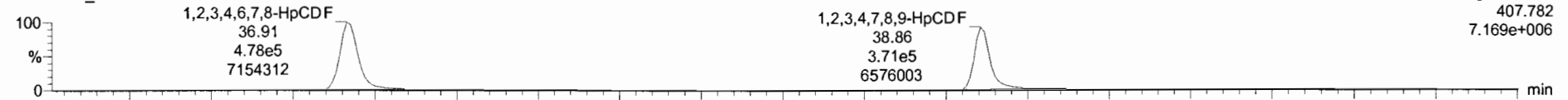
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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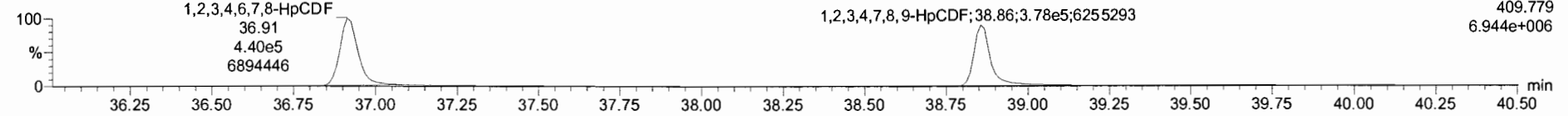
1,2,3,4,6,7,8-HpCDF

190507K1_6



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7.169e+006

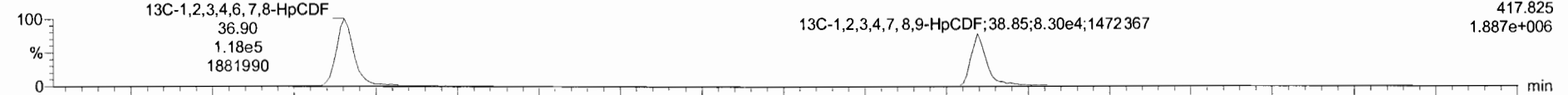
190507K1_6



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6.944e+006

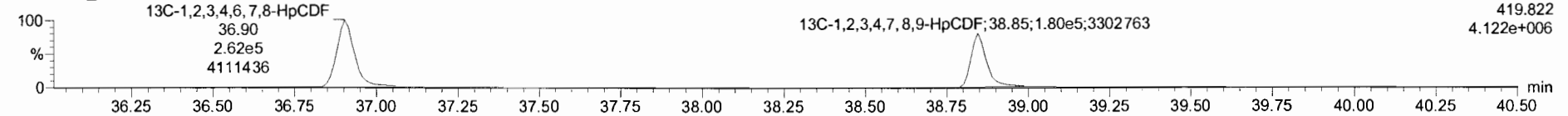
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190507K1_6



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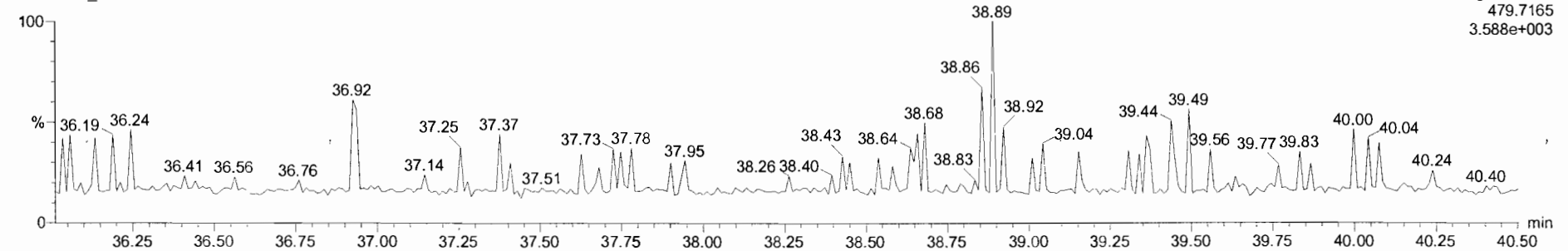
190507K1_6



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DPE4

190507K1_6

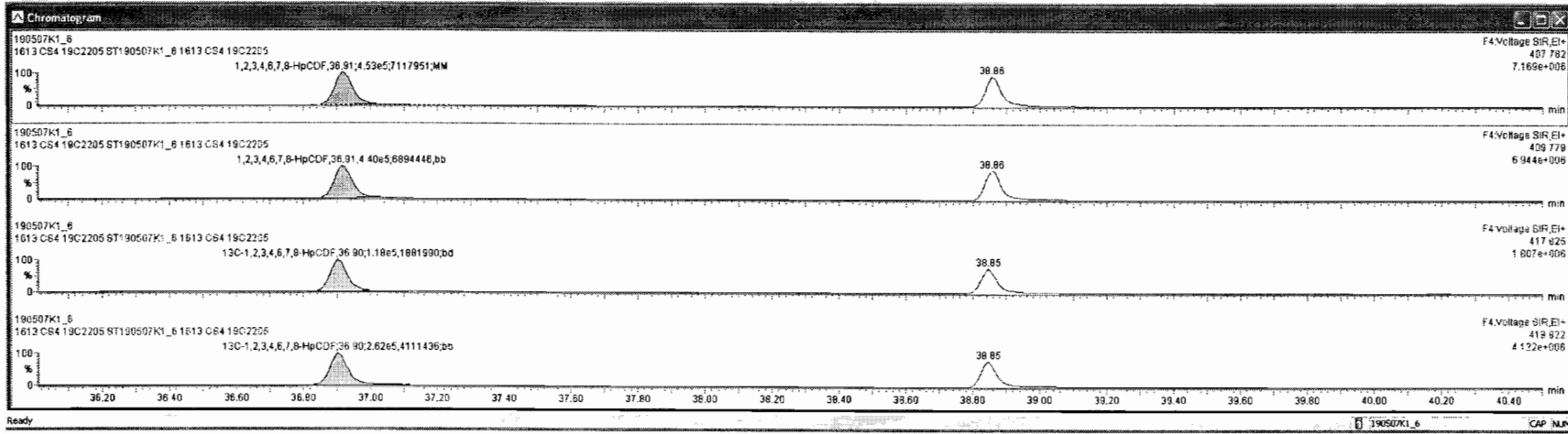


F4:Voltage SIR,EI+
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3.588e+003

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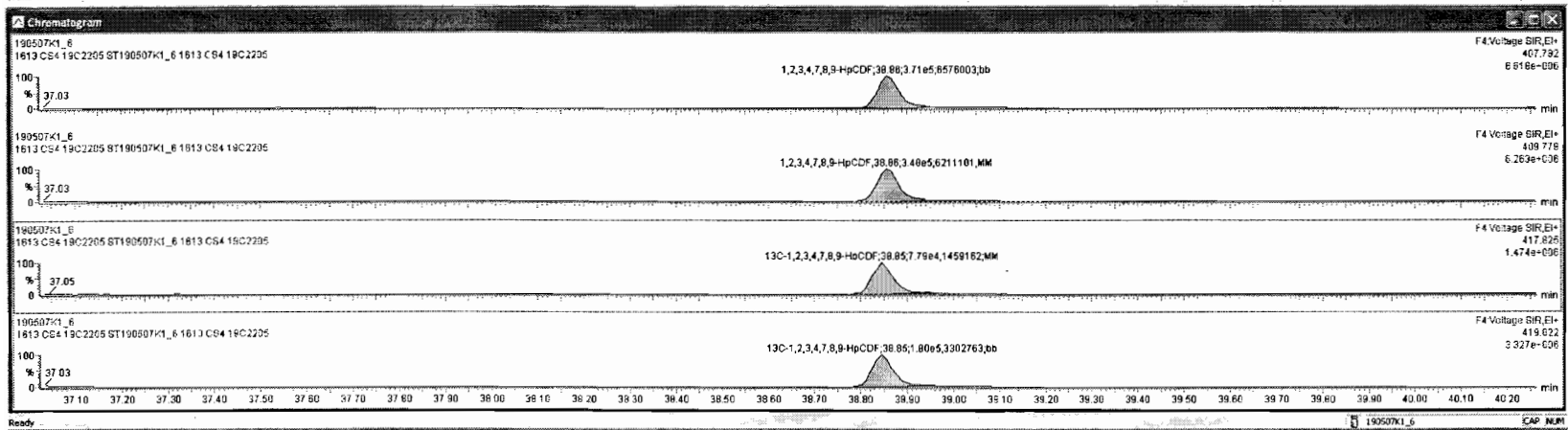
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Name	Resp	RA	rtf	RPF	Vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.26e5	0.76	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4 1,2,3,6,7,8-HxCDD	7.86e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5 1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6 1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.04	1.000	36.91	1.000	205	102	0.421	205
7 OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8 2,3,7,8-TCDF	3.10e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.85	1.000	214	107	0.118	214
10 2,3,4,7,8-HxCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11 1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.265	211
13 2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14 1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.10	1.001	221	110	0.402	221
15 1,2,3,6,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	206	104	0.363	206
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	217	109	0.423	217
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.367	378
18 1,3C-2,3,7,8-TCDF	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19 1,3C-1,2,3,7,8-PeCDF	4.25e5	0.80	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20 1,3C-1,2,3,4,7,8-HxCDF	3.27e5	1.26	NO	0.85	1.000	34.40	1.014	99.5	99.5	0.657	
21 1,3C-1,2,3,6,7,8-HxCDF	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22 1,3C-1,2,3,7,8,9-HxCDF	3.27e5	1.32	NO	0.86	1.000	34.78	1.025	97.3	97.3	0.644	
23 1,3C-1,2,3,4,6,7,8-HpCDF	2.74e5	1.06	NO	0.53	1.000	36.30	1.129	101	101	0.394	



100507K1_6 - ST190507K1_6 1613 CS4 19C 2205 - 1613 CS4 19C 2205

Name	Resp	RA	dy	RPF	wtVol	RT	RRT	Conc	S&Rec	DL	ShPC
1 2,3,7,8-TCDD	2.29e5	0.78	NO	0.82	1.000	26.36	1.001	40.7	102	0.0730	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.51	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4 1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5 1,2,3,7,8,9-HxCDD	6.68e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6 1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.04	1.000	36.21	1.000	205	102	0.421	205
7 OCDD	9.81e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8 2,3,7,8-TCDF	3.19e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0801	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.83	NO	0.97	1.000	29.89	1.000	214	107	0.116	214
10 1,2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.88	1.001	214	107	0.103	214
11 1,2,3,4,7,8-HxCDF	1.19e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.296	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13 1,2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.28	1.001	216	108	0.262	216
14 1,2,3,7,8,9-HxCDF	8.83e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15 1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	209	104	0.383	209
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.88	1.000	221	110	0.407	221
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18 13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19 13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.28	NO	0.85	1.000	34.40	1.014	99.5	99.5	0.657	
21 13C-1,2,3,6,7,8-HxCDD	3.86e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22 13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.86	1.000	34.78	1.025	97.5	97.5	0.544	
23 13C-1,2,3,4,6,7,8-HpCDD	2.24e5	1.08	NO	0.53	1.000	36.30	1.129	101	101	0.394	



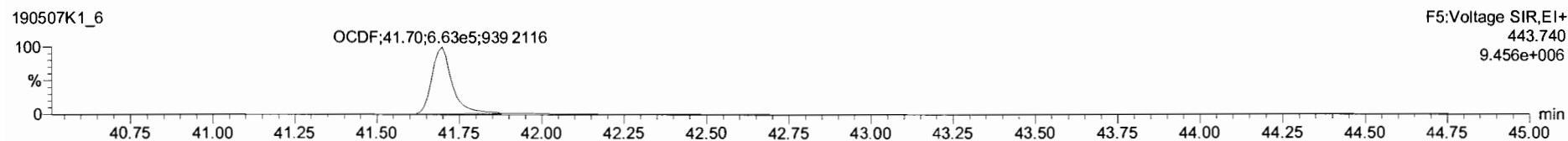
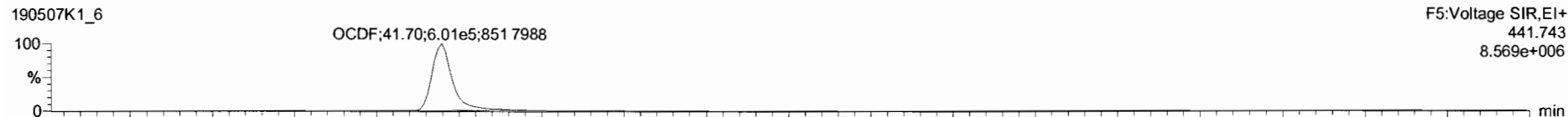
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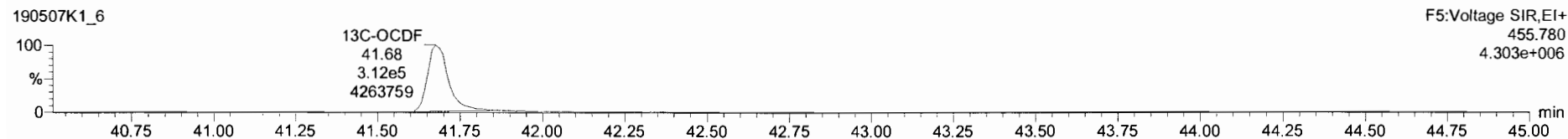
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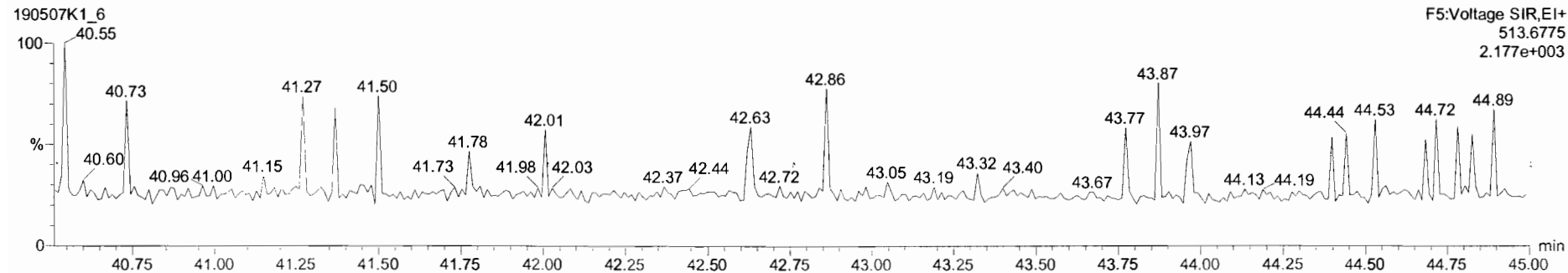
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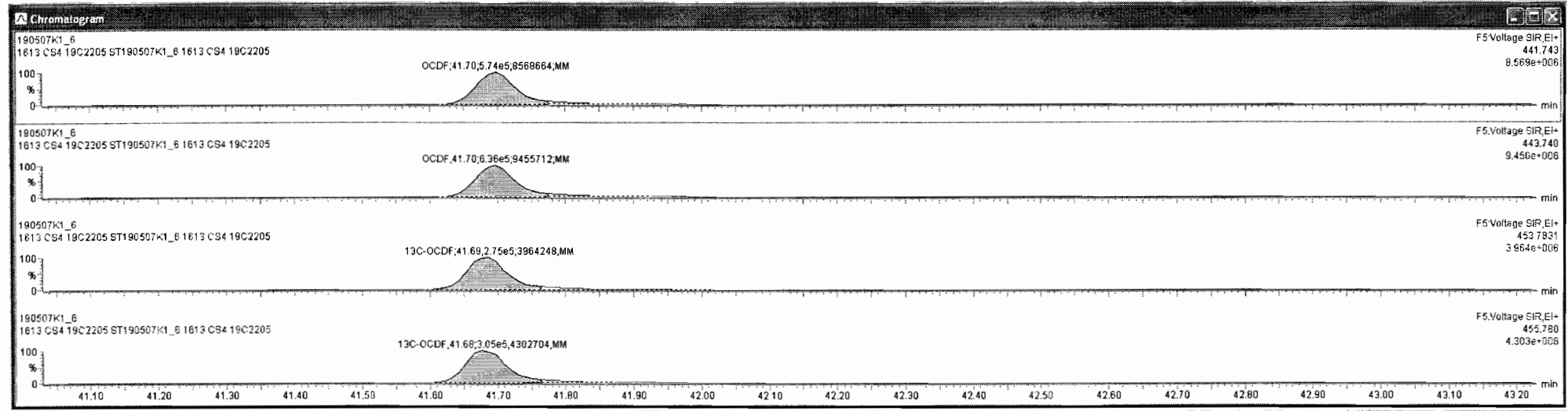
13C-OCDF



DPE5



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.26e5	0.78	NO	0.92	1.000	26.36	1.001	40.7	102	0.0730	40.7
2 1,2,3,7,8-PeCDD	8.32e5	0.61	NO	0.90	1.000	31.14	1.001	216	108	0.127	216
3 1,2,3,4,7,8-HxCDD	7.36e5	1.25	NO	1.07	1.000	34.41	1.000	210	105	0.305	210
4 1,2,3,6,7,8-HxCDD	7.88e5	1.25	NO	0.97	1.000	34.52	1.000	211	106	0.306	211
5 1,2,3,7,8,9-HxCDD	6.69e5	1.22	NO	0.98	1.000	34.80	1.000	209	105	0.356	209
6 1,2,3,4,6,7,8-HpCDD	5.83e5	1.03	NO	1.04	1.000	38.31	1.000	205	102	0.421	205
7 OCDD	9.61e5	0.90	NO	0.97	1.000	41.47	1.000	410	102	0.445	410
8 2,3,7,8-TCDF	3.18e5	0.77	NO	0.94	1.000	25.50	1.001	42.0	105	0.0601	42.0
9 1,2,3,7,8-PeCDF	1.34e6	1.63	NO	0.97	1.000	29.89	1.000	214	107	0.118	214
10 2,3,4,7,8-PeCDF	1.34e6	1.58	NO	1.00	1.000	30.86	1.001	214	107	0.103	214
11 1,2,3,4,7,8-HxCDF	1.10e6	1.24	NO	1.24	1.000	33.54	1.000	211	105	0.259	211
12 1,2,3,6,7,8-HxCDF	1.18e6	1.23	NO	1.10	1.000	33.67	1.000	211	106	0.255	211
13 2,3,4,6,7,8-HxCDF	1.12e6	1.25	NO	1.18	1.000	34.26	1.001	216	108	0.262	216
14 1,2,3,7,8,9-HxCDF	8.63e5	1.25	NO	1.07	1.000	35.18	1.001	221	110	0.402	221
15 1,2,3,4,6,7,8-HpCDF	8.93e5	1.03	NO	1.13	1.000	36.91	1.000	208	104	0.363	208
16 1,2,3,4,7,8,9-HpCDF	7.19e5	1.06	NO	1.26	1.000	38.86	1.000	221	110	0.407	221
17 OCDF	1.21e6	0.90	NO	1.10	1.000	41.70	1.000	378	94.5	0.387	378
18 13C-2,3,7,8-TCDD	6.01e5	0.79	NO	1.05	1.000	26.34	1.026	97.8	97.8	0.186	
19 13C-1,2,3,7,8-PeCDD	4.25e5	0.60	NO	0.74	1.000	31.12	1.212	97.8	97.8	0.253	
20 13C-1,2,3,4,7,8-HxCDD	3.27e5	1.26	NO	0.85	1.000	34.40	1.014	99.5	99.5	0.657	
21 13C-1,2,3,6,7,8-HxCDD	3.88e5	1.28	NO	0.78	1.000	34.51	1.017	97.5	97.5	0.547	
22 13C-1,2,3,7,8,9-HxCDD	3.27e5	1.32	NO	0.86	1.000	34.78	1.025	97.3	97.3	0.644	
23 13C-1,2,3,4,6,7,8-HpCDD	2.74e5	1.06	NO	0.53	1.000	38.30	1.129	101	101	0.394	



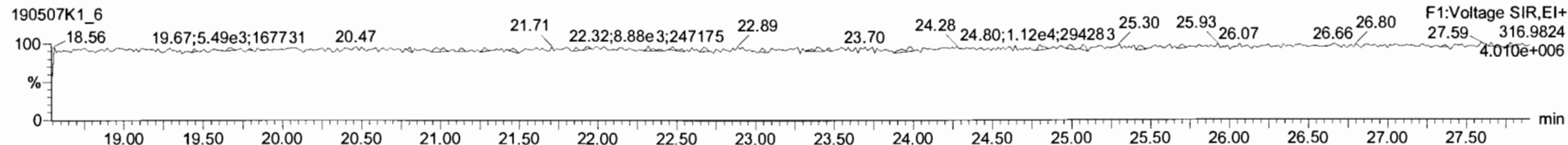
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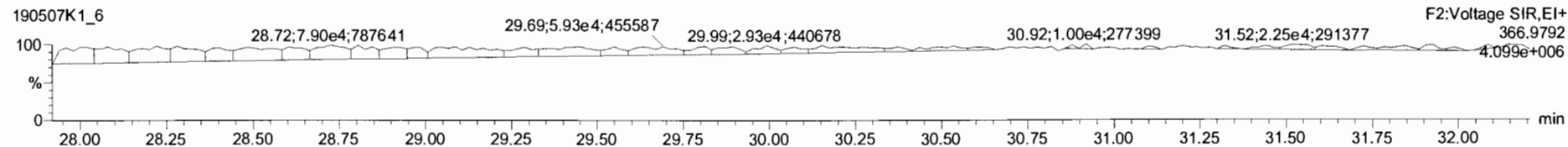
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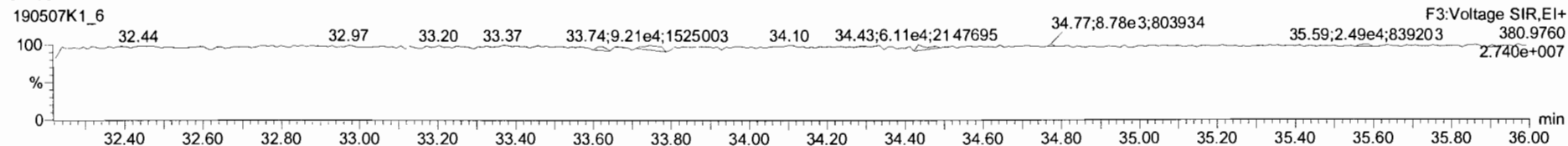
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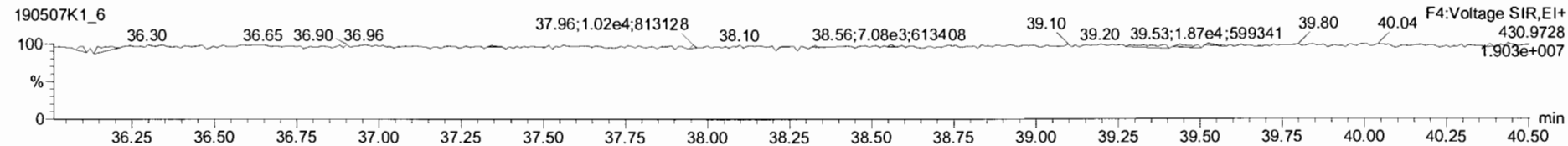
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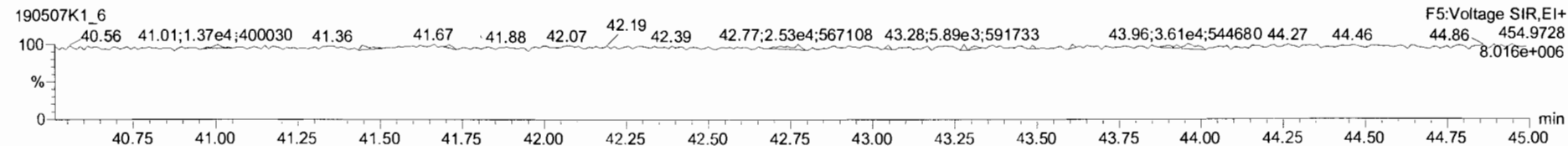
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PFK4



PFK5



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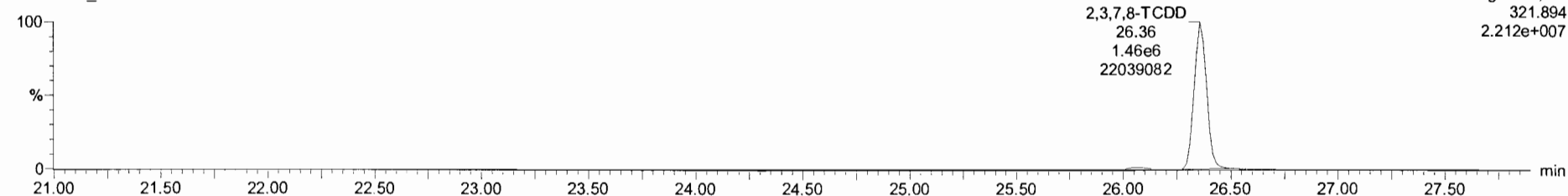
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2,3,7,8-TCDD

190507K1_7



190507K1_7

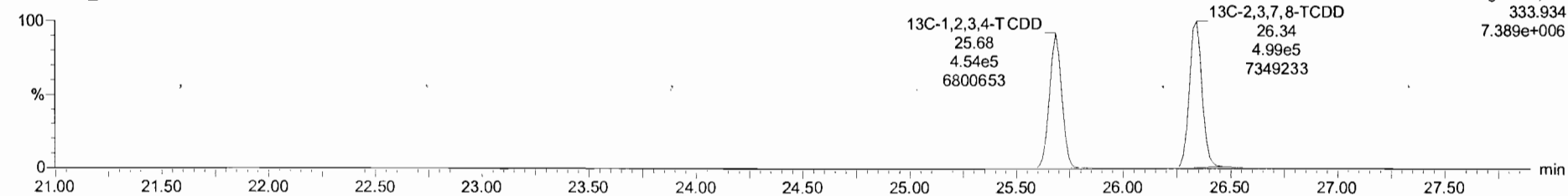


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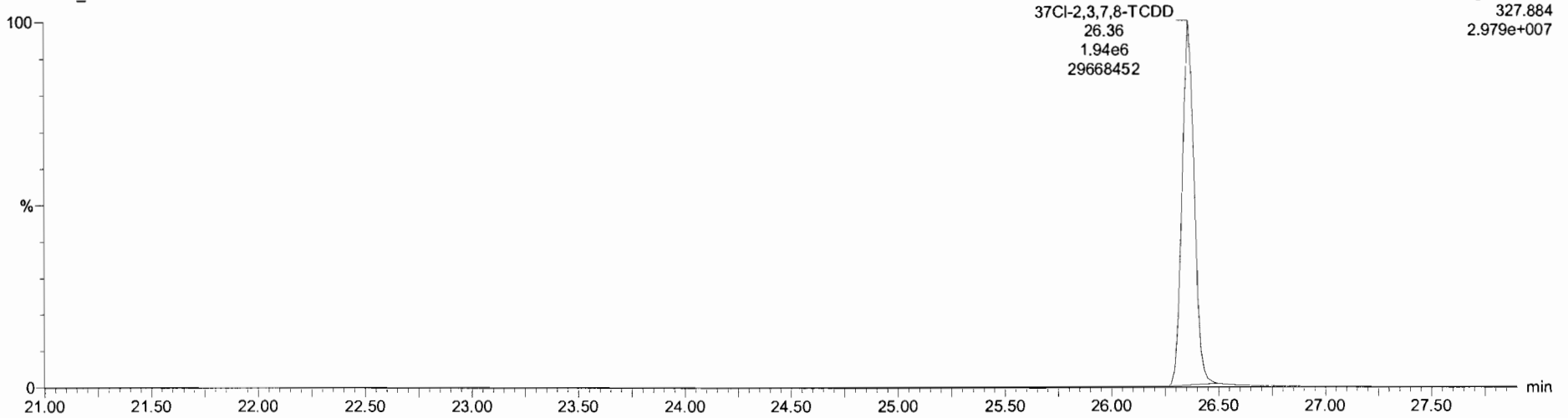
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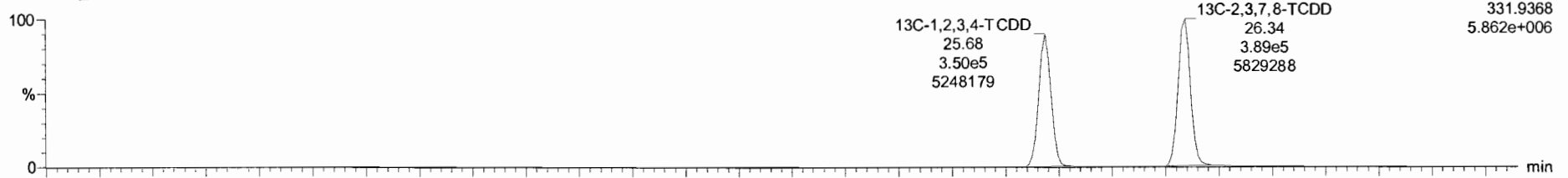
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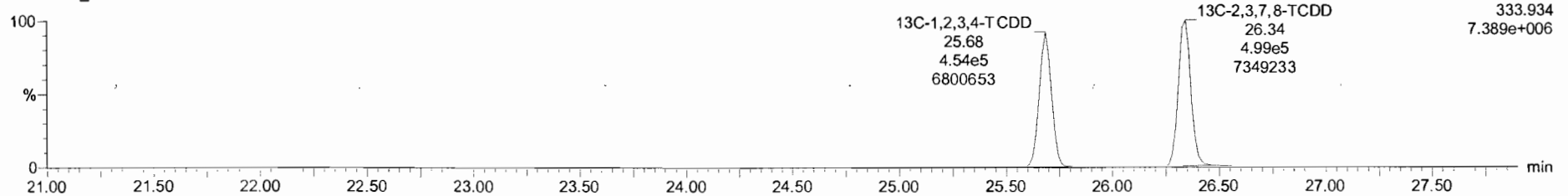


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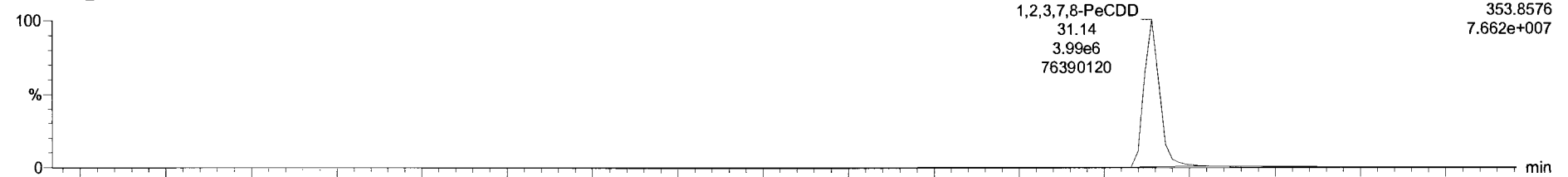
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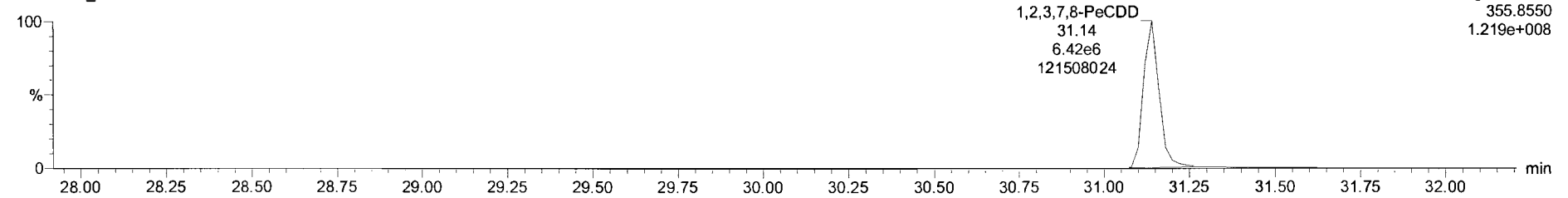
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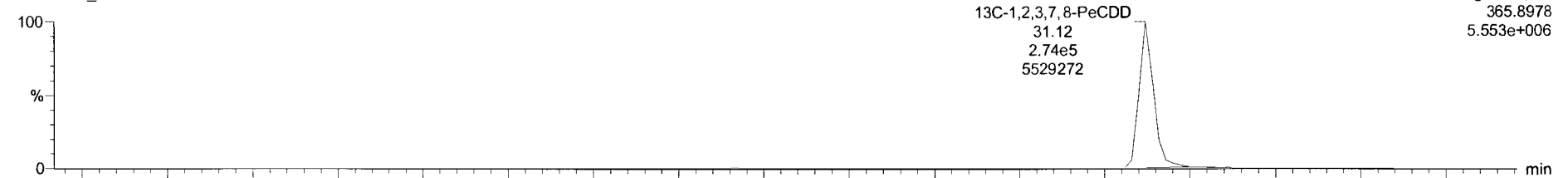


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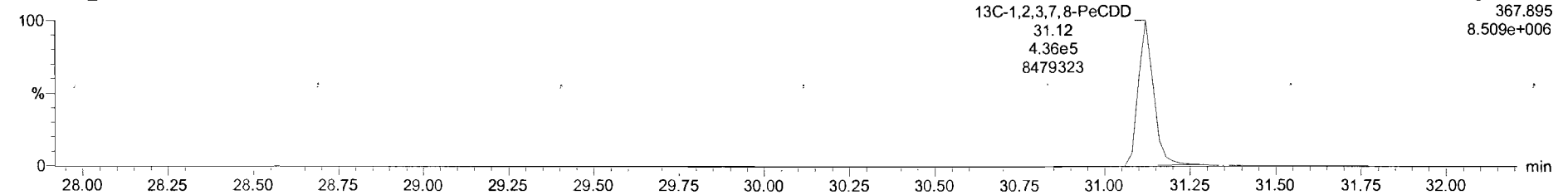


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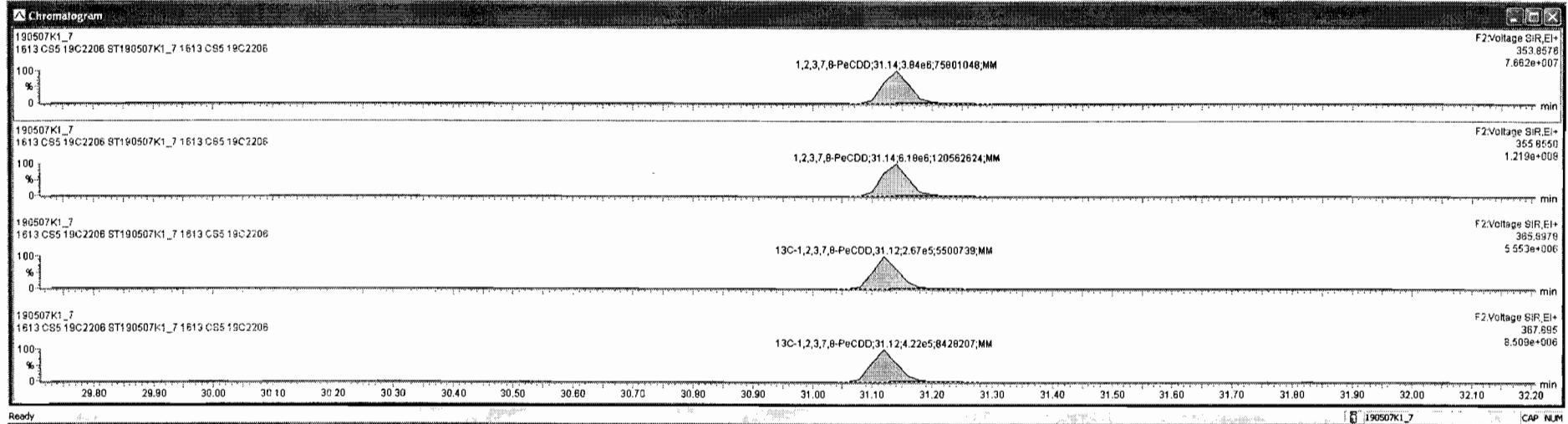
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190507K1_7



SL	Name	Resp	RA	nV	RRF	WtNol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2	1,2,3,7,8-PeCDD	1.00e7	0.52	NO	0.90	1.000	31.14	1.001	1610	107	0.0666	1610
3	1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4	1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1580	104	0.446	1580
5	1,2,3,7,8,9-HxCDD	8.89e6	1.20	NO	0.98	1.000	34.61	1.000	1530	102	0.497	1530
6	1,2,3,4,6,7,8-HpCDD	7.56e6	1.05	NO	1.04	1.000	36.31	1.000	1570	105	0.634	1570
7	OCDD	1.35e7	0.90	NO	0.97	1.000	41.48	1.000	3210	107	1.20	3210
8	2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0887	320
9	1,2,3,7,8-PeCDF	1.56e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10	2,3,4,7,8-PeCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11	1,2,3,4,7,8-HxCDF	1.36e7	1.24	NO	1.24	1.000	33.54	1.000	1580	105	0.629	1580
12	1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13	2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1640	109	0.693	1640
14	1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15	1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	106	0.892	1620
16	1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	38.67	1.000	1600	107	0.926	1600
17	OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	99.7	0.468	2960
18	13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.028	105	105	0.169	
19	13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20	13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.65	1.000	34.40	1.014	108	108	0.235	
21	13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22	13C-1,2,3,7,8,9-HxCDD	5.93e5	1.25	NO	0.66	1.000	34.60	1.026	115	115	0.231	
23	13C-1,2,3,4,6,7,8-HpCDD	4.65e5	1.07	NO	0.53	1.000	36.31	1.129	113	113	0.326	



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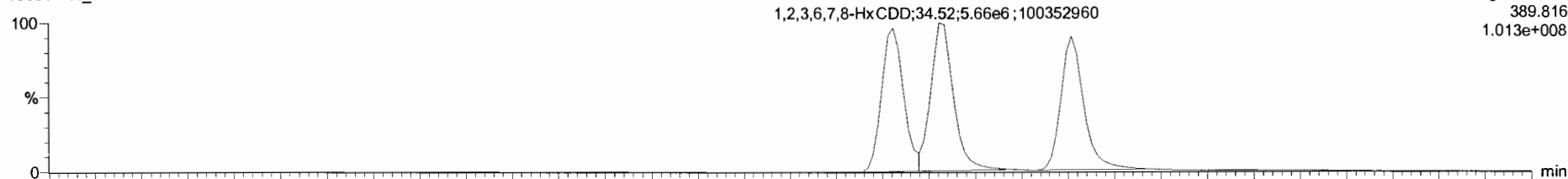
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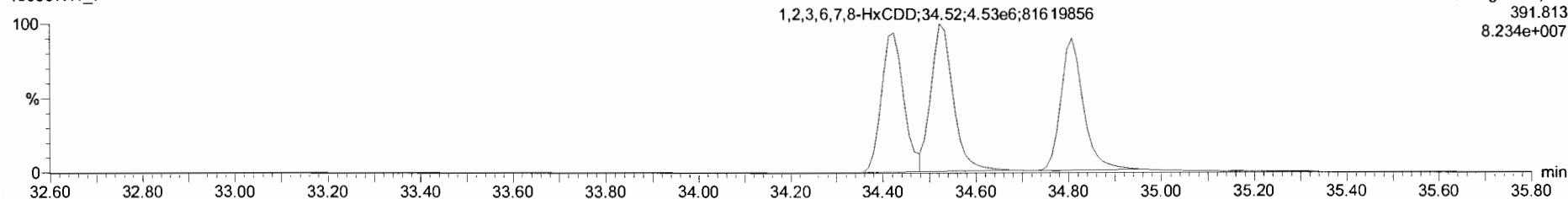
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1,2,3,4,7,8-HxCDD

190507K1_7

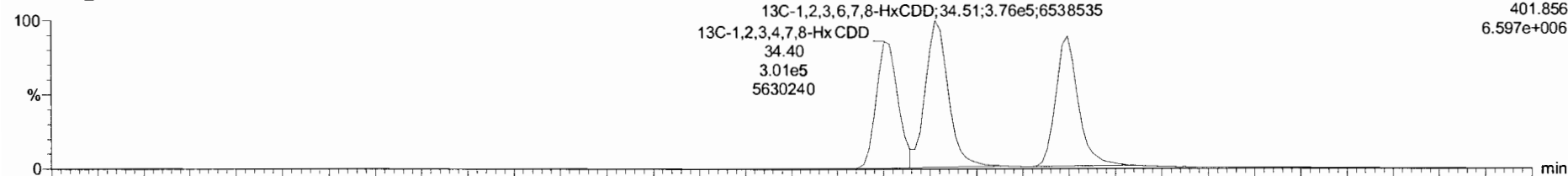


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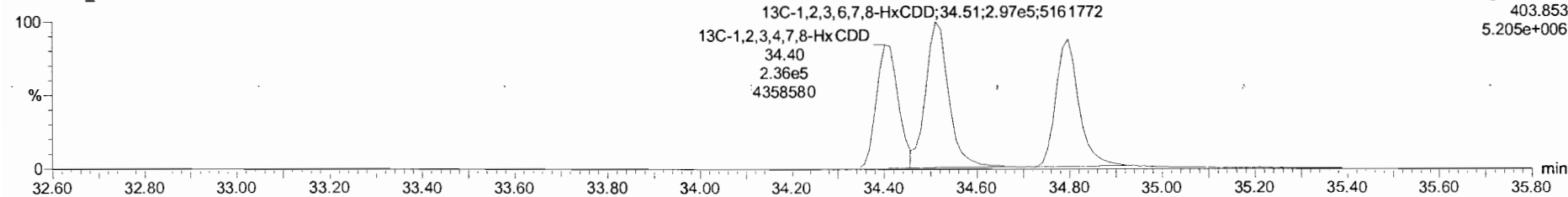


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190507K1_7



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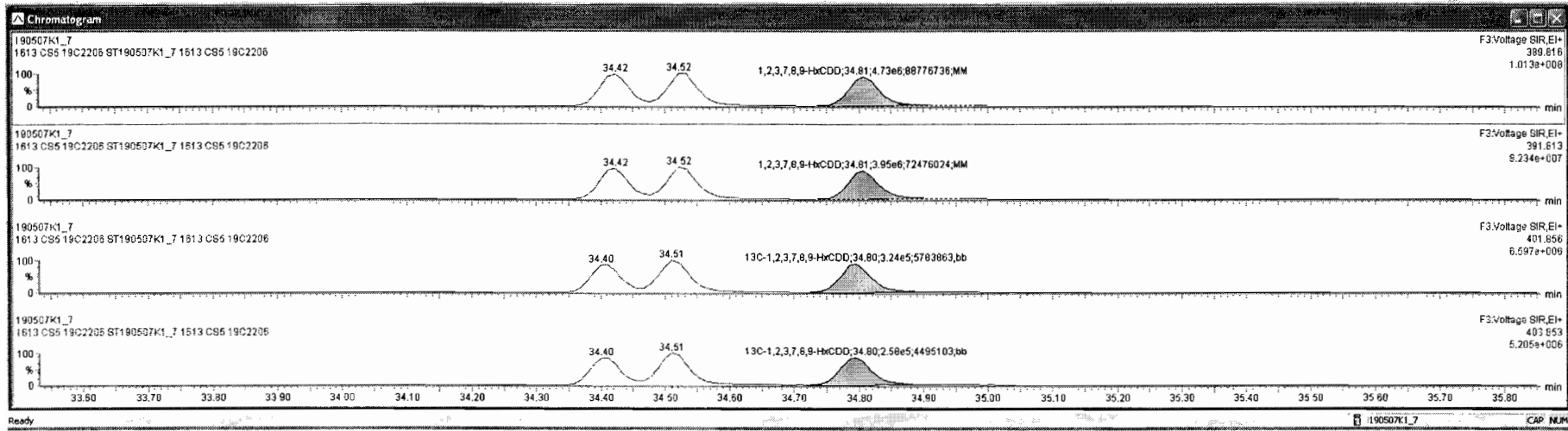


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190507K1_7 - ST190507K1_7 1613 CS5 19C2206 - 1613 CS5 19C2206

#	Name	Resp	RA	IV	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.60e6	0.76	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2	1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0869	1610
3	1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4	1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1560	104	0.446	1560
5	1,2,3,7,8,9-HxCDD	8.89e6	1.20	NO	0.96	1.000	34.81	1.000	1530	102	0.497	1530
6	1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7	OCDD	1.35e7	0.90	NO	0.97	1.000	41.48	1.000	3210	107	1.20	3210
8	2,3,7,8-TCDF	3.44e6	0.76	NO	0.94	1.000	25.51	1.001	320	107	0.0867	320
9	1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10	2,3,4,7,8-HxCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.224	1610
11	1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1580	105	0.629	1580
12	1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13	2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1640	109	0.693	1640
14	1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15	1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.52	1.000	1620	108	0.852	1620
16	1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	38.87	1.000	1600	107	0.926	1600
17	OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	99.7	0.468	2960
18	13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.169	
19	13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20	13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.65	1.000	34.40	1.014	108	108	0.235	
21	13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22	13C-1,2,3,7,8,9-HxCDD	5.82e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23	13C-1,2,3,4,6,7,8-HpCDD	4.85e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	



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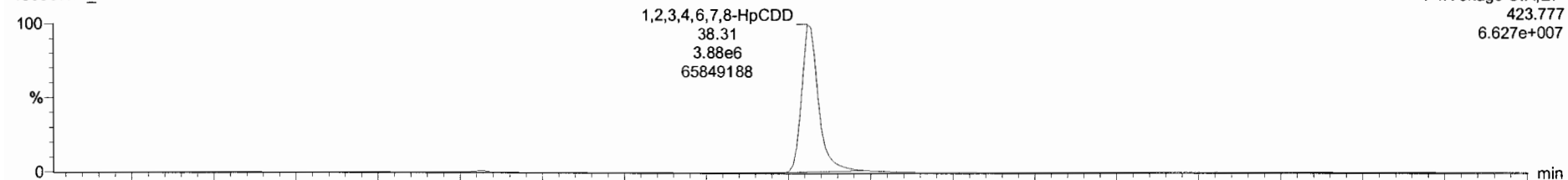
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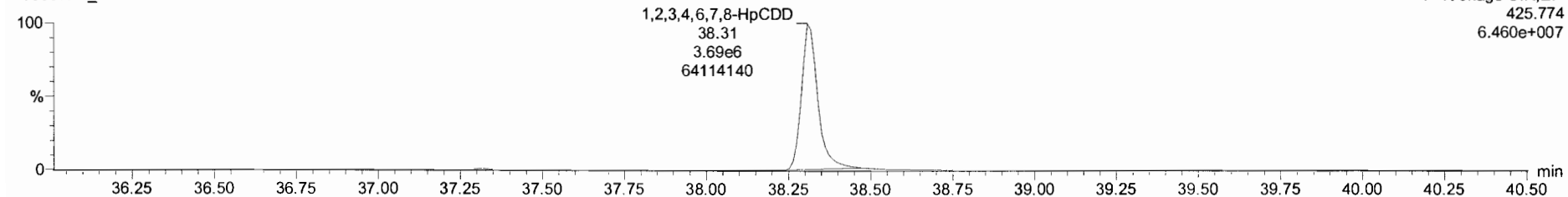
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1,2,3,4,6,7,8-HpCDD

190507K1_7

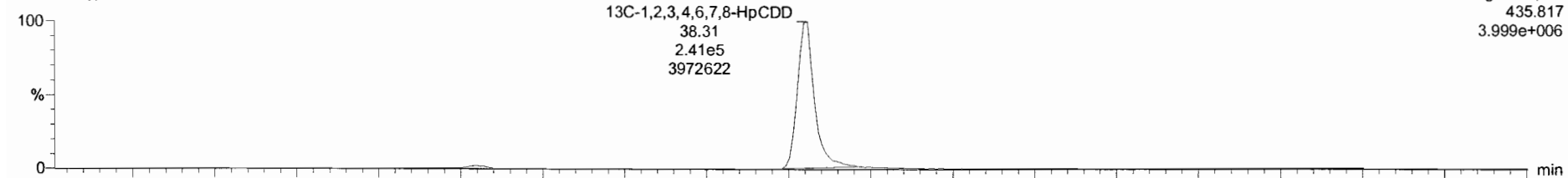


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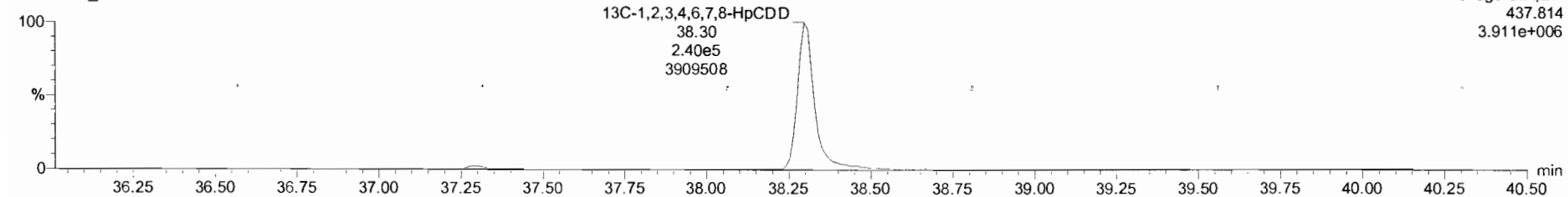


13C-1,2,3,4,6,7,8-HpCDD

190507K1_7



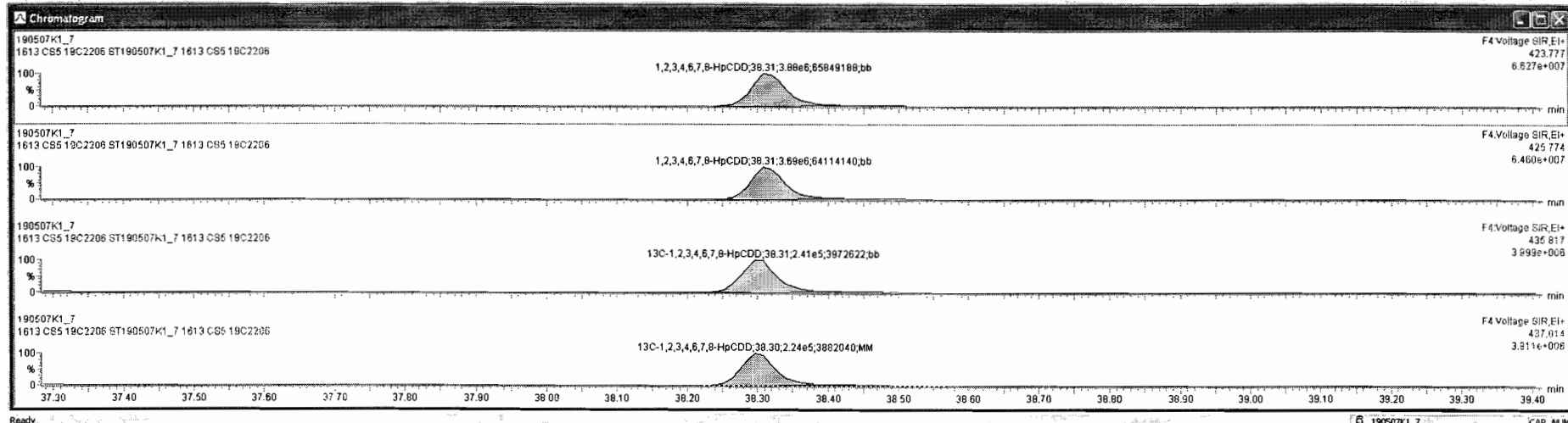
190507K1_7



TargetLynx - 190507K1_CRY.qld

190507K1_7 - ST190507K1_7 1613 CS5 19C2206 - 1613 CS5 19C2206

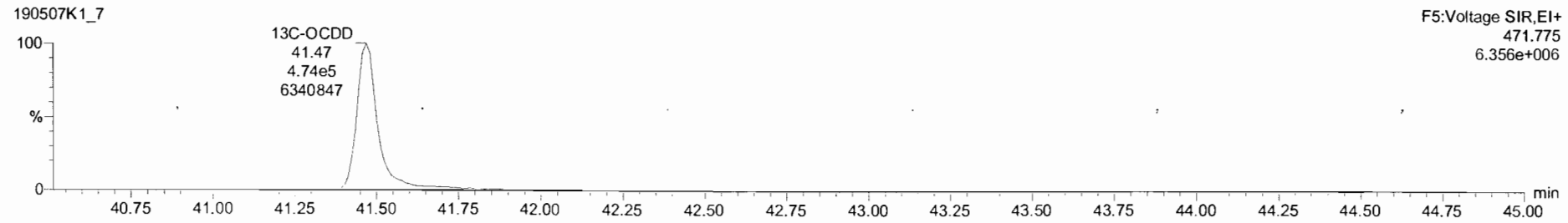
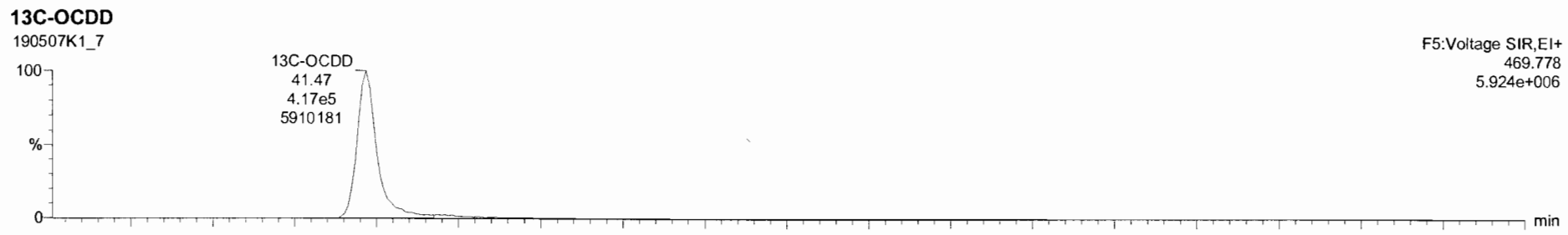
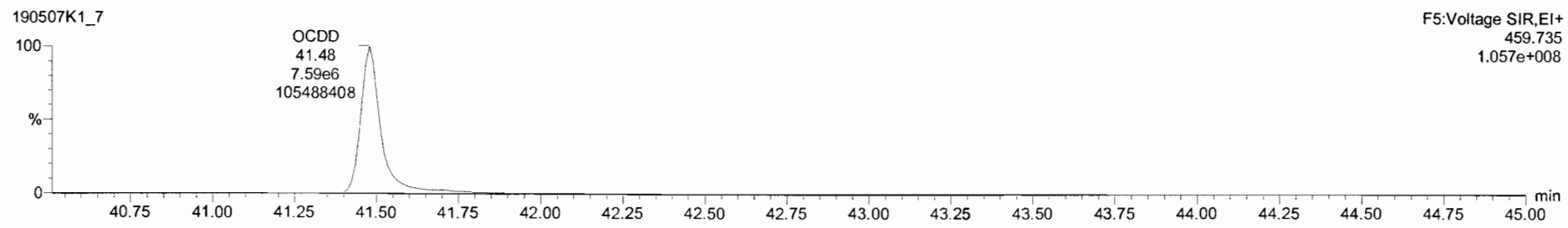
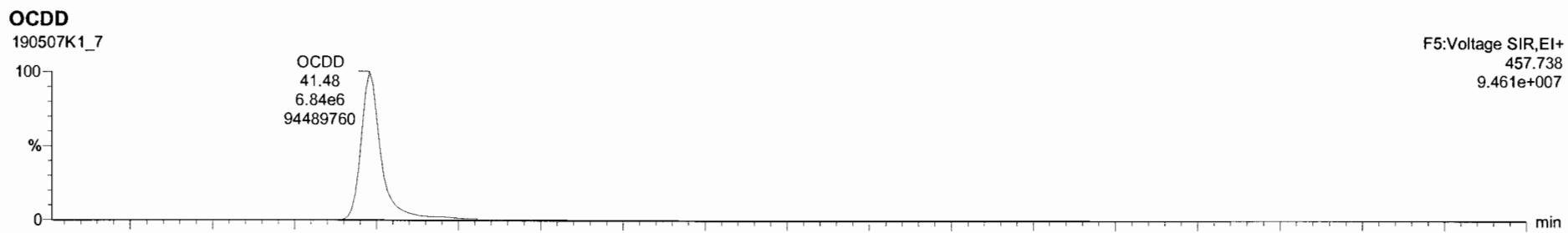
Line	Name	Resp	RA	Inv	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2	1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0868	1610
3	1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4	1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1560	104	0.446	1560
5	1,2,3,7,8-HxCDD	6.68e6	1.20	NO	0.98	1.000	34.81	1.000	1530	102	0.497	1530
6	1,2,3,4,6,7,8-HpCDD	7.59e6	1.05	NO	1.04	1.000	36.31	1.000	1570	105	0.634	1570
7	OCDD	1.35e7	0.90	NO	0.97	1.000	41.46	1.000	3210	107	1.20	3210
8	2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0997	320
9	1,2,3,7,8-PeCDF	1.59e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10	2,3,4,7,8-PeCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11	1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1580	105	0.629	1580
12	1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.66	1.000	1620	108	0.664	1620
13	2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1540	109	0.693	1540
14	1,2,3,7,8-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15	1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	108	0.892	1620
16	1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	36.87	1.000	1600	107	0.926	1600
17	OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	98.7	0.468	2960
18	13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.169	
19	13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20	13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.65	1.000	34.40	1.014	108	108	0.235	
21	13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.198	
22	13C-1,2,3,7,8-HxCDD	5.82e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23	13C-1,2,3,4,6,7,8-HpCDD	4.65e5	1.07	NO	0.53	1.000	36.31	1.129	113	113	0.326	



Dataset: Untitled

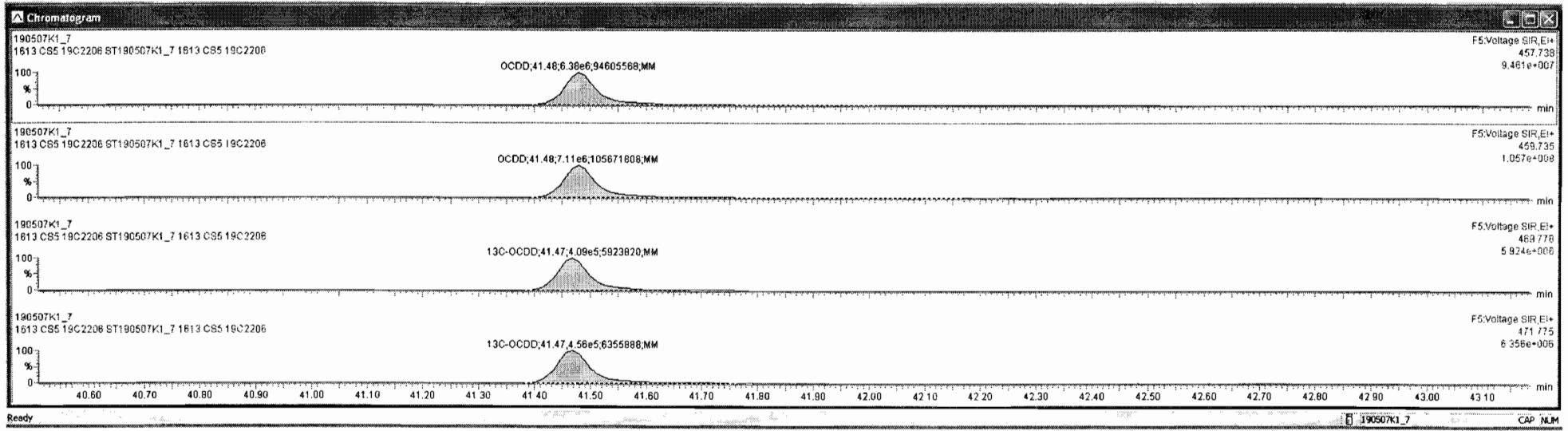
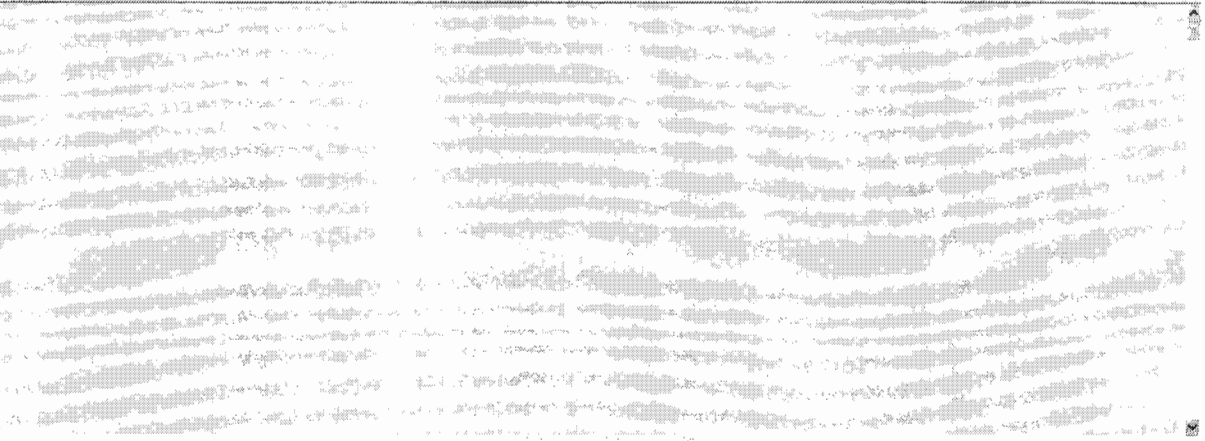
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206



190507K1_7 - ST190507K1_7 1613 CS5 19C2206 - 1613 CS5 19C2206

Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2 1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0868	1610
3 1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4 1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1590	104	0.446	1560
5 1,2,3,7,8,9-HxCDD	8.68e6	1.20	NO	0.98	1.000	34.81	1.000	1530	102	0.497	1530
6 1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7 OCDD	1.35e7	0.90	NO	0.97	1.000	41.46	1.000	3210	107	1.20	3210
8 2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0867	320
9 1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10 2,3,4,7,8-PeCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11 1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1590	105	0.629	1590
12 1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13 2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1640	109	0.693	1640
14 1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15 1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	108	0.892	1620
16 1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	36.67	1.000	1600	107	0.926	1600
17 OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	98.7	0.466	2960
18 13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.169	
19 13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20 13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.85	1.000	34.40	1.014	108	108	0.235	
21 13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22 13C-1,2,3,7,8,9-HxCDD	5.82e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23 13C-1,2,3,4,6,7,8-HpCDD	4.85e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	



Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

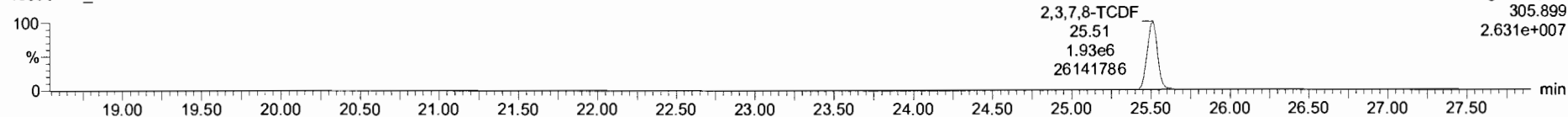
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2,3,7,8-TCDF

190507K1_7

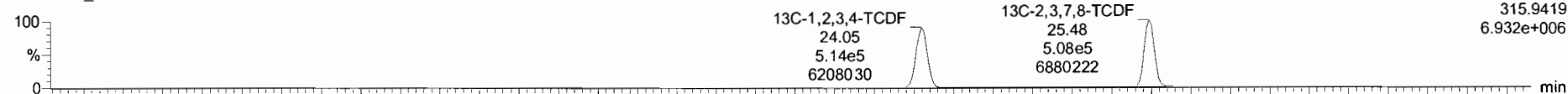


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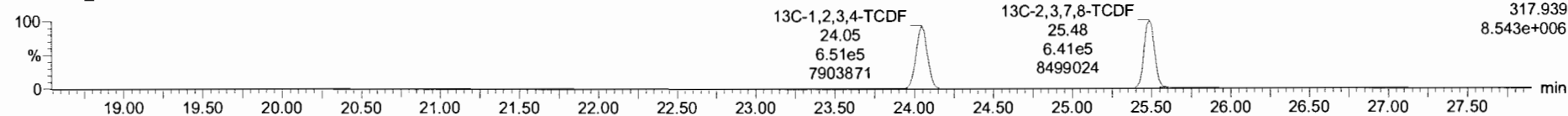


13C-2,3,7,8-TCDF

190507K1_7

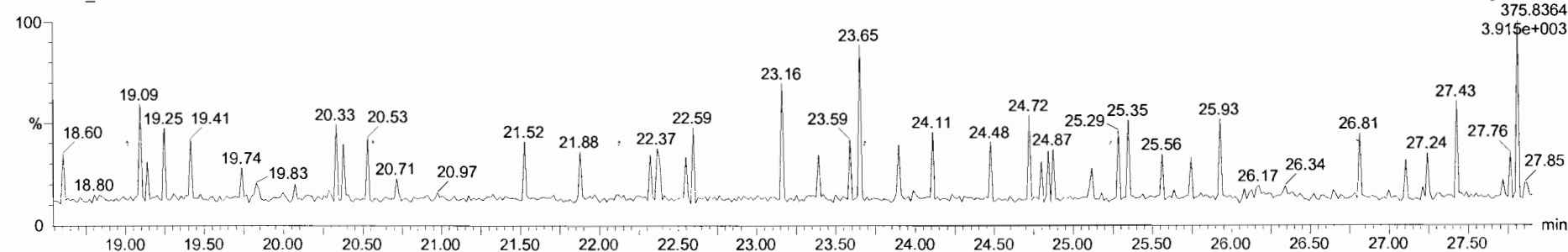


190507K1_7



DPE1

190507K1_7



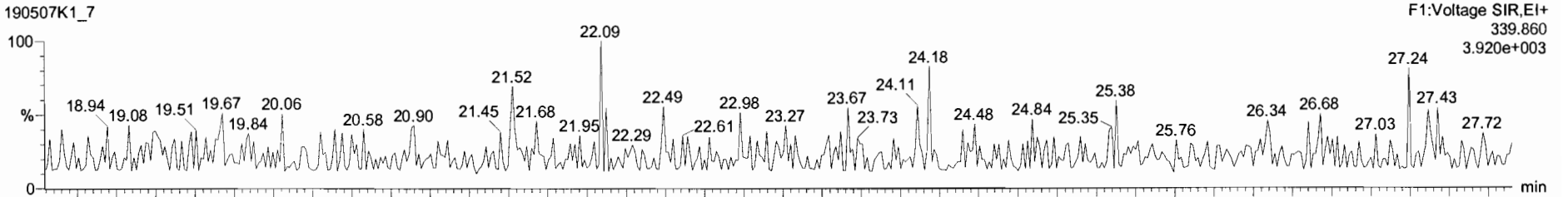
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

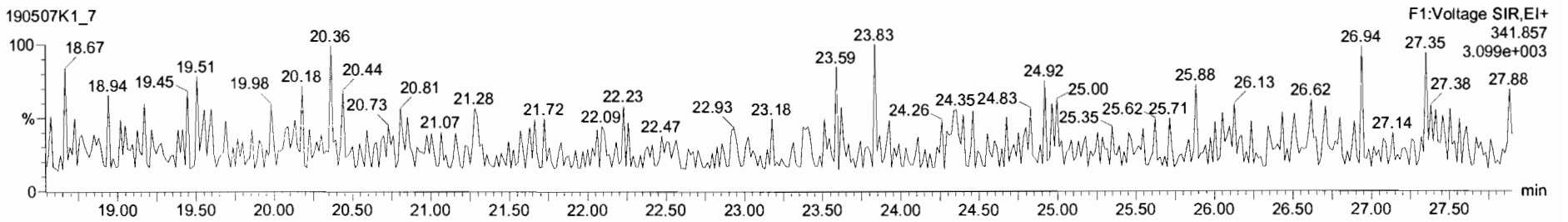
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1st Func. Penta-Furans

190507K1_7

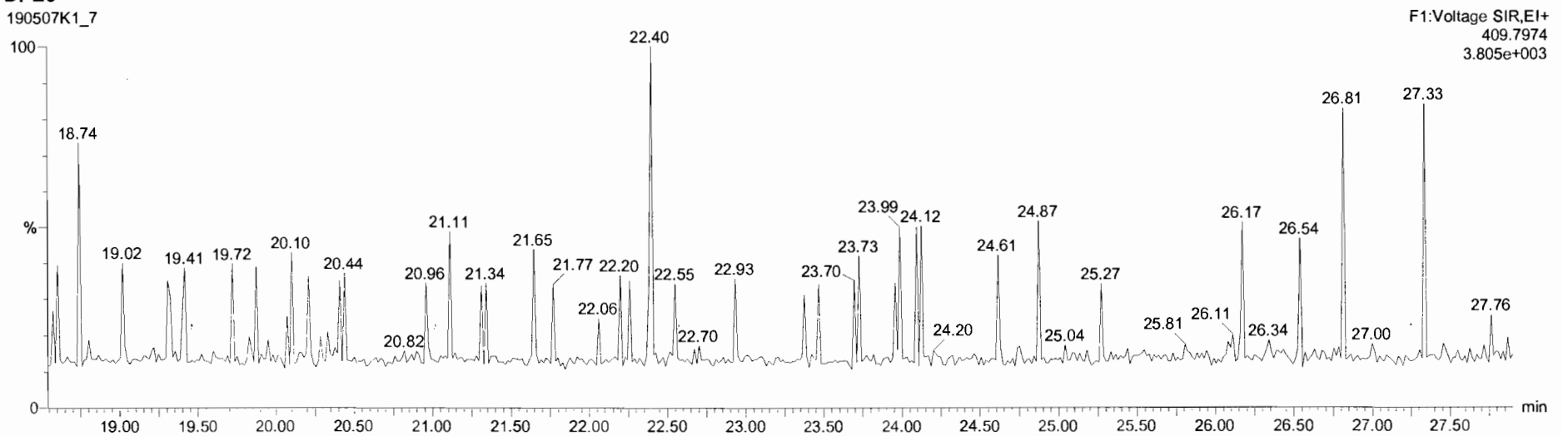


190507K1_7



DPE6

190507K1_7



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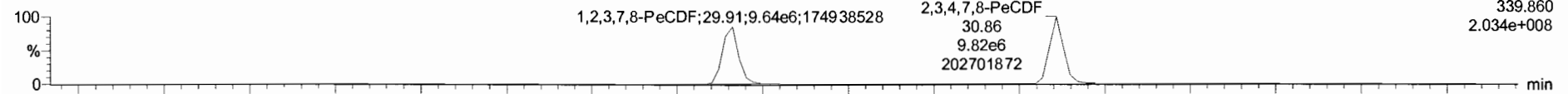
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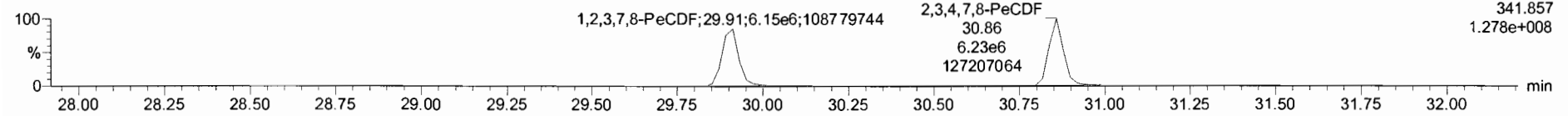
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1,2,3,7,8-PeCDF

190507K1_7

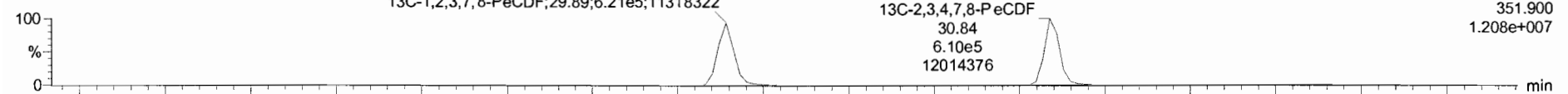


190507K1_7

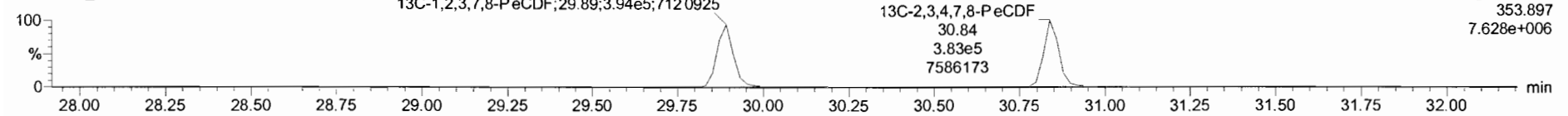


13C-1,2,3,7,8-PeCDF

190507K1_7

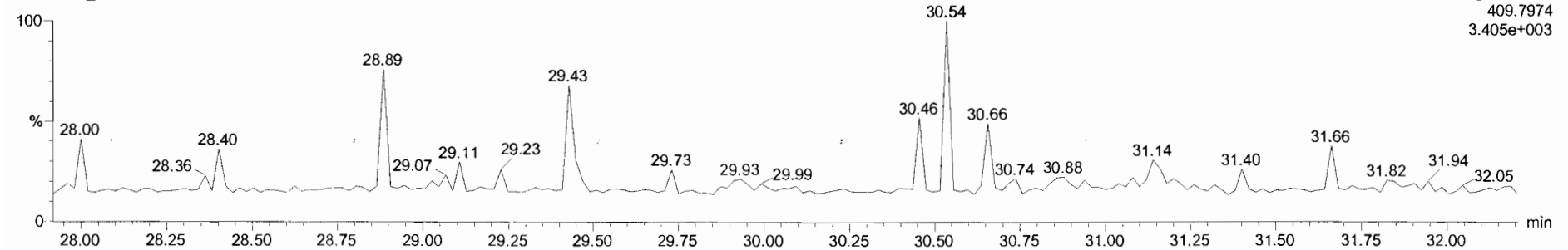


190507K1_7



DPE2

190507K1_7



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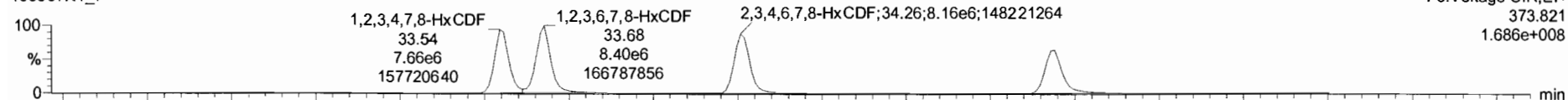
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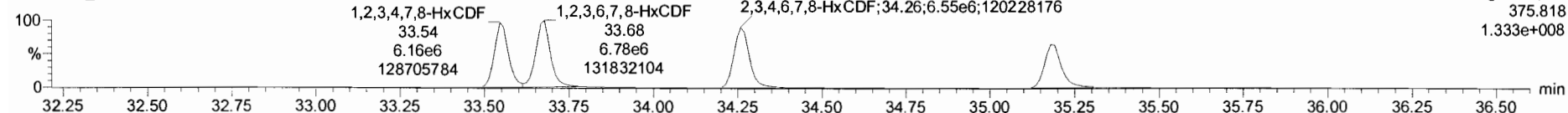
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1,2,3,4,7,8-HxCDF

190507K1_7

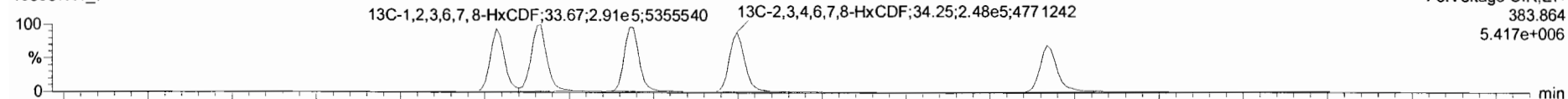


190507K1_7

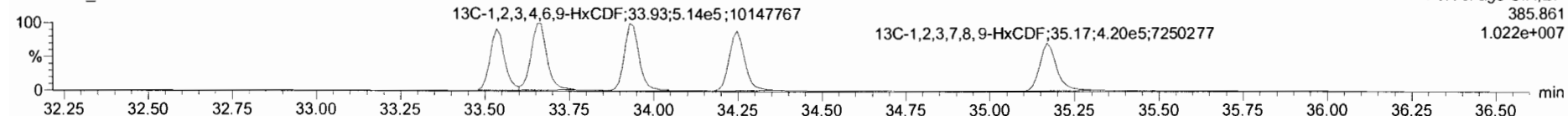


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190507K1_7

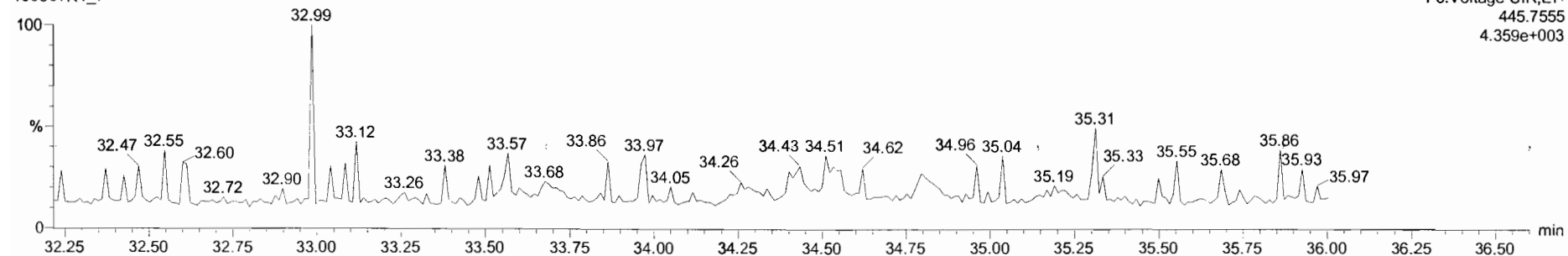


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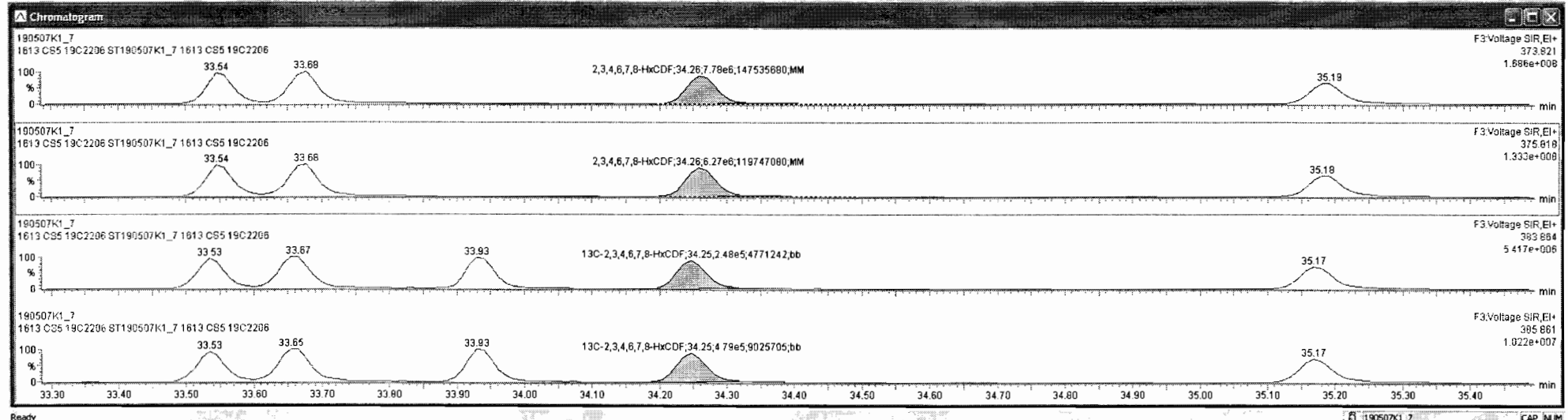
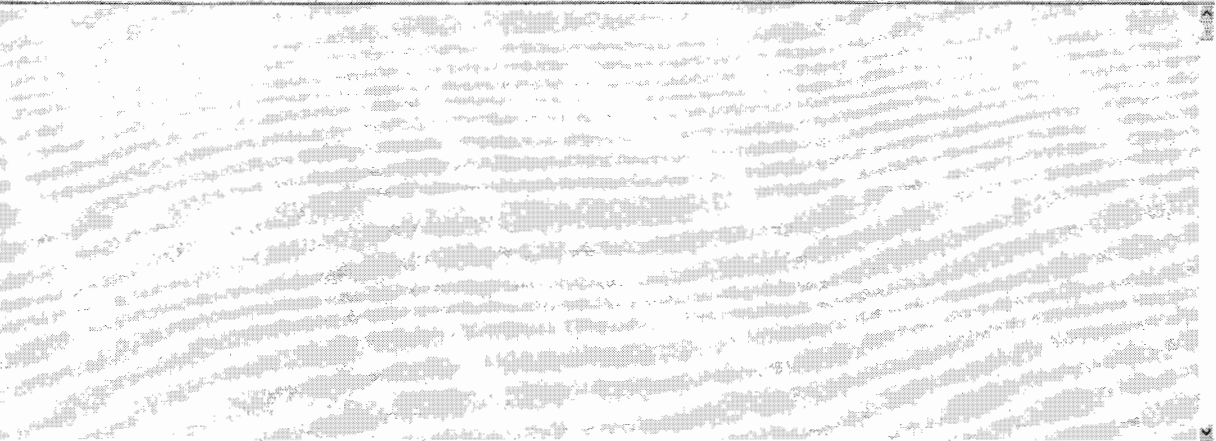


DPE3

190507K1_7

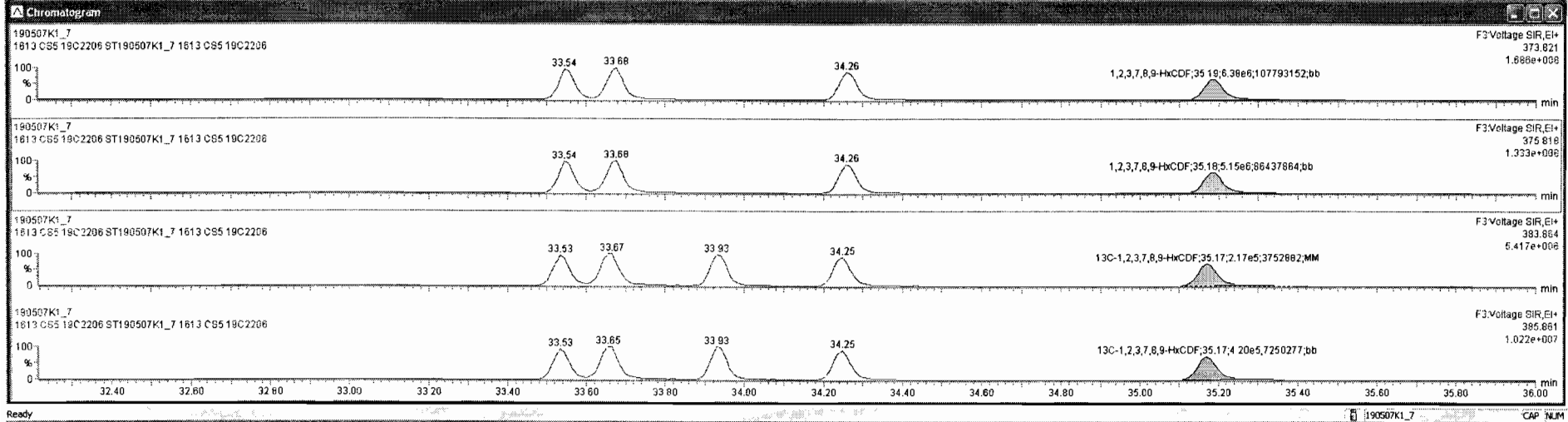


Name	Resp	RA	nAy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2 1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0868	1610
3 1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4 1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1560	104	0.446	1560
5 1,2,3,7,8,9-HxCDD	8.88e6	1.20	NO	0.98	1.000	34.81	1.000	1530	102	0.497	1530
6 1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7 OCDD	1.35e7	0.90	NO	0.97	1.000	41.48	1.000	3210	107	1.20	3210
8 2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0887	320
9 1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10 2,3,4,7,8-PeCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11 1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1580	105	0.529	1580
12 1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13 2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1490	109	0.683	1490
14 1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15 1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	108	0.852	1620
16 1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	38.87	1.000	1600	107	0.926	1600
17 OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	98.7	0.468	2960
18 13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.169	
19 13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20 13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.55	1.000	34.40	1.014	108	108	0.235	
21 13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22 13C-1,2,3,7,8,9-HxCDD	5.82e5	1.25	NO	0.86	1.000	34.80	1.026	115	115	0.231	
23 13C-1,2,3,4,6,7,8-HpCDD	4.65e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	



190507K1_7-ST190507K1_7_1613_CS5_19C2206 - 1613_CS5_19C2206

Name	Resp	RA	RY	RRT	wt/val	RT	RRT	Conc	%Rec	DL	EMPG
1 2,3,7,8-TCDD	2.60e6	0.78	NO	0.92	1.000	26.36	1.001	316	105	0.0742	316
2 1,2,3,7,8-PeCDD	1.00e7	0.62	NO	0.90	1.000	31.14	1.001	1610	107	0.0868	1610
3 1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1680	111	0.470	1680
4 1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1560	104	0.446	1560
5 1,2,3,7,8,9-HxCDD	8.68e6	1.20	NO	0.99	1.000	34.81	1.000	1530	102	0.497	1530
6 1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7 OCDD	1.35e7	0.90	NO	0.97	1.000	41.46	1.000	3210	107	1.20	3210
8 2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0887	320
9 1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10 2,3,4,7,8-PeCDF	1.81e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11 1,2,3,4,7,8-HxCDF	1.38e7	1.24	NO	1.24	1.000	33.54	1.000	1580	105	0.629	1580
12 1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13 2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1640	109	0.693	1640
14 1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.13	1.001	1690	112	0.968	1690
15 1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	108	0.892	1620
16 1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	36.87	1.000	1600	107	0.928	1600
17 OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	98.7	0.468	2960
18 13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.189	
19 13C-1,2,3,7,8-PeCDD	6.89e5	0.63	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20 13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.65	1.000	34.40	1.014	108	108	0.235	
21 13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22 13C-1,2,3,7,8,9-HxCDD	5.82e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23 13C-1,2,3,4,6,7,8-HpCDD	4.65e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	

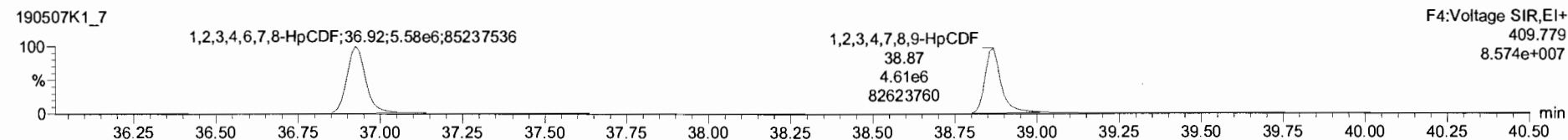
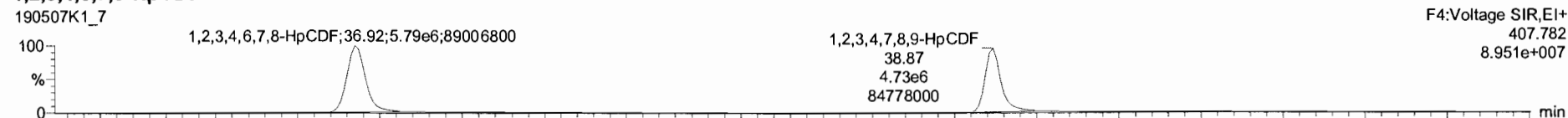


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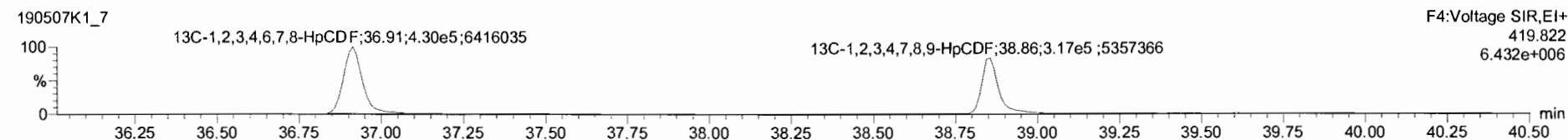
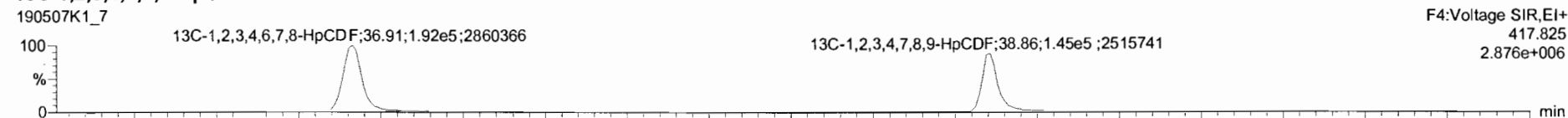
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

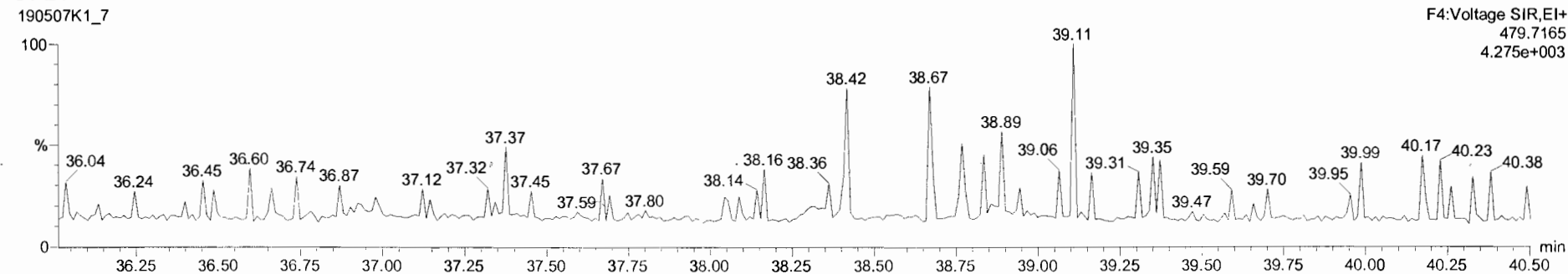
1,2,3,4,6,7,8-HpCDF



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



DPE4



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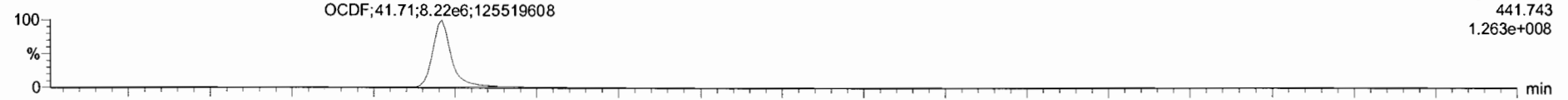
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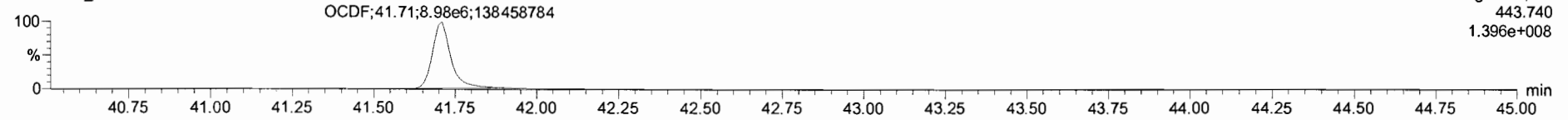
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OCDF

190507K1_7

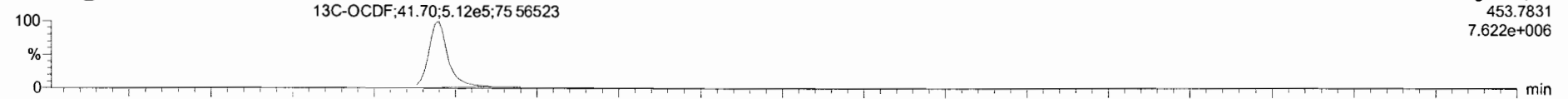


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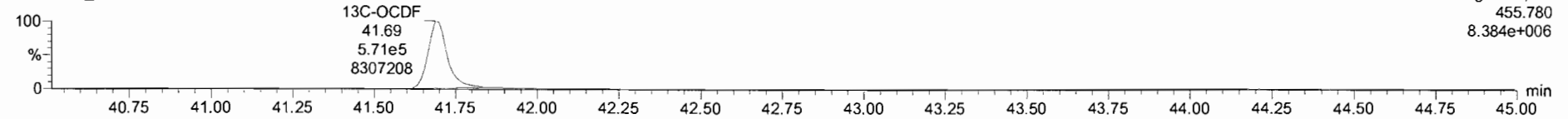


13C-OCDF

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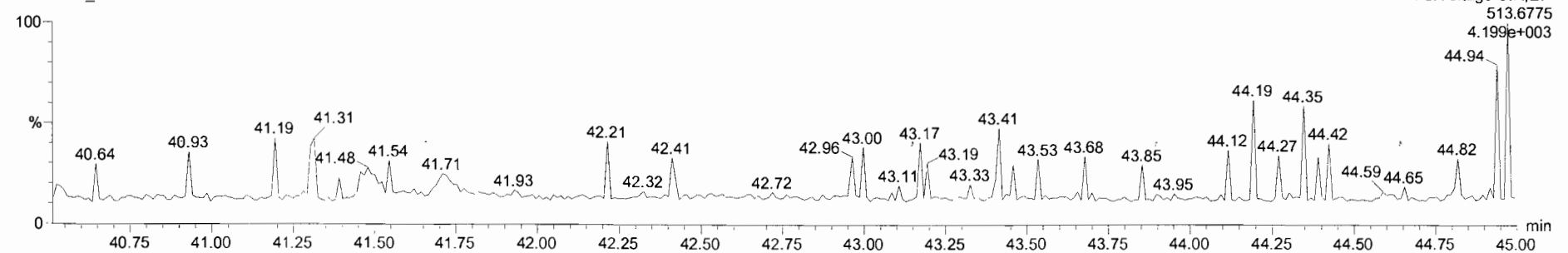


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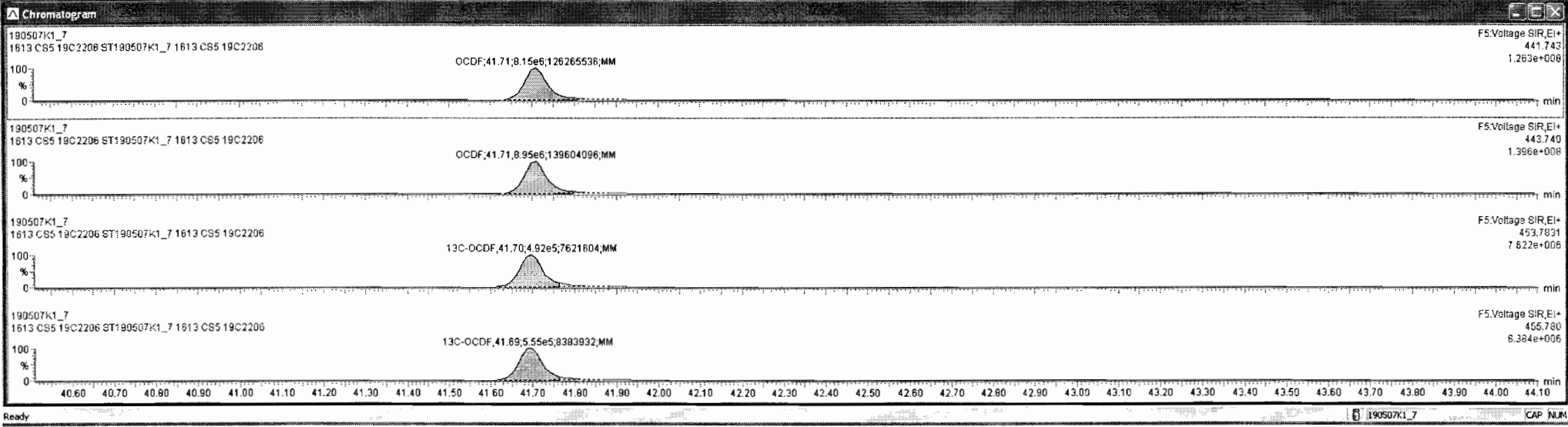


DPE5

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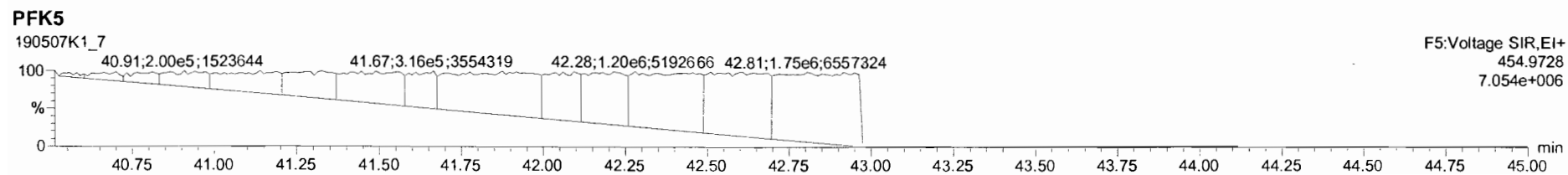
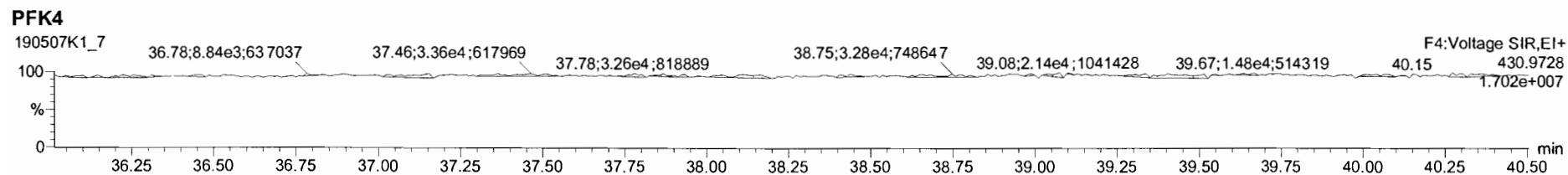
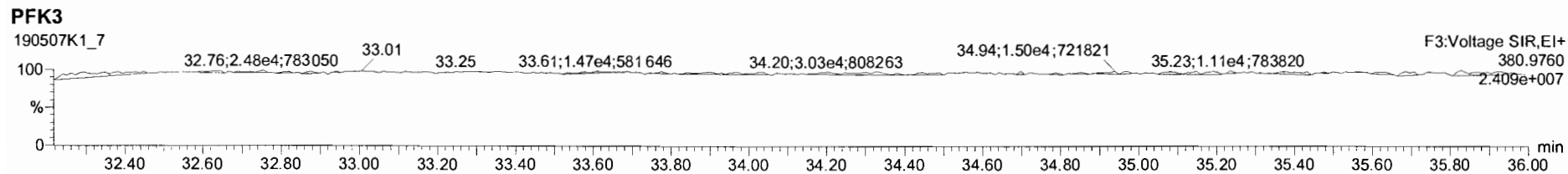
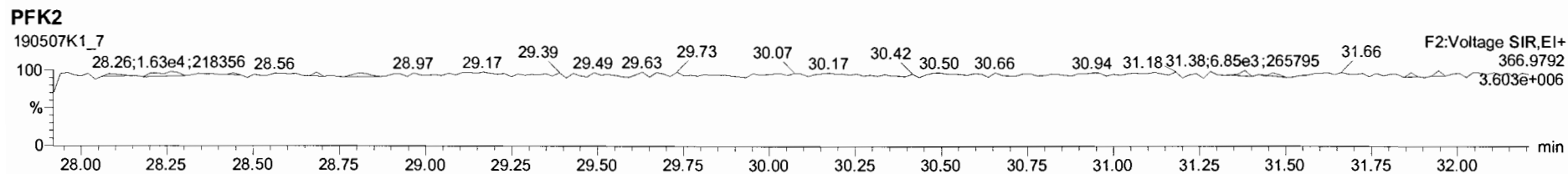
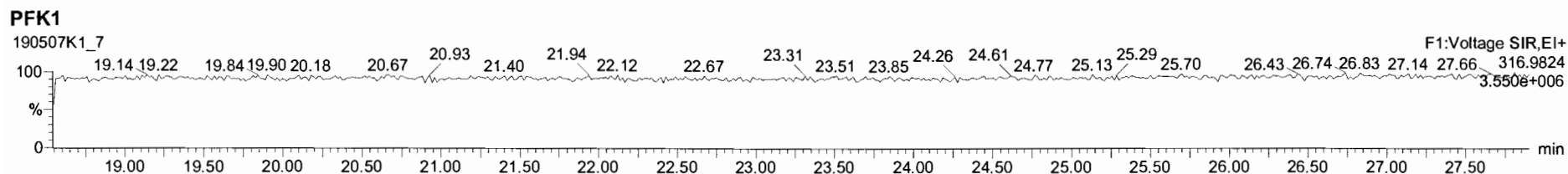
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2 1,2,3,7,8-PeCDD	1.00e7	0.82	NO	0.90	1.000	31.14	1.001	1610	107	0.0868	1610
3 1,2,3,4,7,8-HxCDD	9.53e6	1.25	NO	1.07	1.000	34.42	1.001	1660	111	0.470	1660
4 1,2,3,6,7,8-HxCDD	1.02e7	1.25	NO	0.97	1.000	34.52	1.000	1560	104	0.446	1560
5 1,2,3,7,8,9-HxCDD	8.66e6	1.20	NO	0.98	1.000	34.81	1.000	1530	102	0.497	1530
6 1,2,3,4,6,7,8-HpCDD	7.58e6	1.05	NO	1.04	1.000	38.31	1.000	1570	105	0.634	1570
7 OCDD	1.35e7	0.90	NO	0.97	1.000	41.48	1.000	3210	107	1.20	3210
8 2,3,7,8-TCDF	3.44e6	0.78	NO	0.94	1.000	25.51	1.001	320	107	0.0887	320
9 1,2,3,7,8-PeCDF	1.58e7	1.57	NO	0.97	1.000	29.91	1.001	1600	106	0.255	1600
10 2,3,4,7,8-PeCDF	1.61e7	1.58	NO	1.00	1.000	30.86	1.001	1610	107	0.234	1610
11 1,2,3,4,7,8-HxCDF	1.36e7	1.24	NO	1.24	1.000	33.54	1.000	1590	105	0.628	1590
12 1,2,3,6,7,8-HxCDF	1.52e7	1.24	NO	1.10	1.000	33.68	1.000	1620	108	0.664	1620
13 2,3,4,6,7,8-HxCDF	1.40e7	1.24	NO	1.18	1.000	34.26	1.000	1640	109	0.693	1640
14 1,2,3,7,8,9-HxCDF	1.15e7	1.24	NO	1.07	1.000	35.19	1.001	1690	112	0.966	1690
15 1,2,3,4,6,7,8-HpCDF	1.14e7	1.04	NO	1.13	1.000	36.92	1.000	1620	108	0.892	1620
16 1,2,3,4,7,8,9-HpCDF	9.34e6	1.03	NO	1.26	1.000	38.87	1.000	1600	107	0.926	1600
17 OCDF	1.71e7	0.91	NO	1.10	1.000	41.71	1.000	2960	96.7	0.468	2960
18 13C-2,3,7,8-TCDD	8.87e5	0.78	NO	1.05	1.000	26.34	1.026	105	105	0.169	
19 13C-1,2,3,7,8-PeCDD	6.89e5	0.83	NO	0.74	1.000	31.12	1.212	115	115	0.166	
20 13C-1,2,3,4,7,8-HxCDD	5.37e5	1.27	NO	0.65	1.000	34.40	1.014	108	108	0.235	
21 13C-1,2,3,6,7,8-HxCDD	6.73e5	1.27	NO	0.78	1.000	34.51	1.017	113	113	0.196	
22 13C-1,2,3,7,8,9-HxCDD	5.82e5	1.25	NO	0.66	1.000	34.80	1.026	115	115	0.231	
23 13C-1,2,3,4,6,7,8-HpCDD	4.65e5	1.07	NO	0.53	1.000	38.31	1.129	113	113	0.326	



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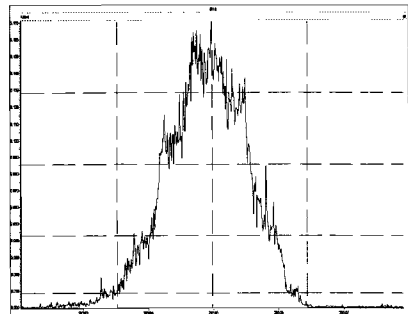
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_7, Date: 07-May-2019, Time: 15:27:02, ID: ST190507K1_7 1613 CS5 19C2206, Description: 1613 CS5 19C2206

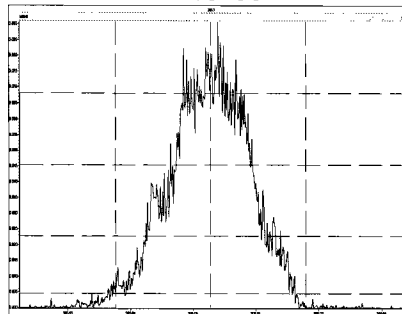


Printed: Tuesday, May 07, 2019 17:12:33 Pacific Daylight Time

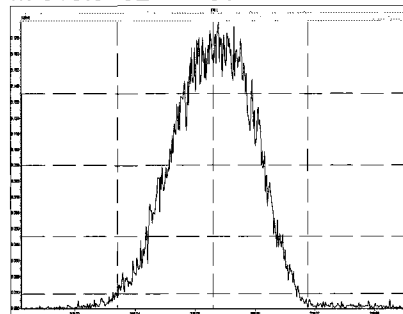
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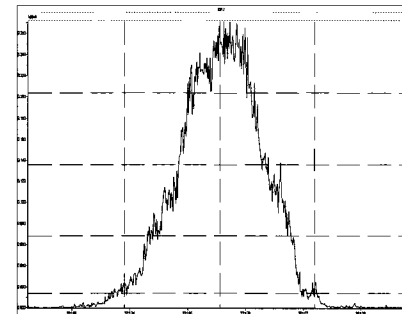
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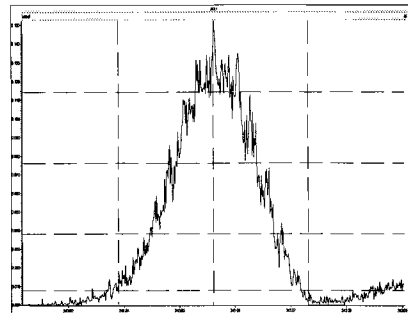
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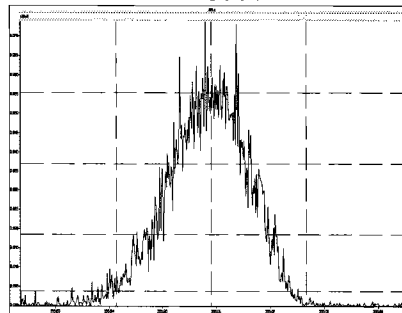
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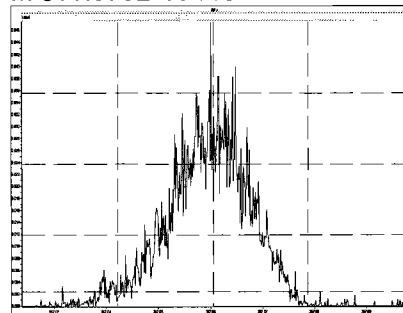
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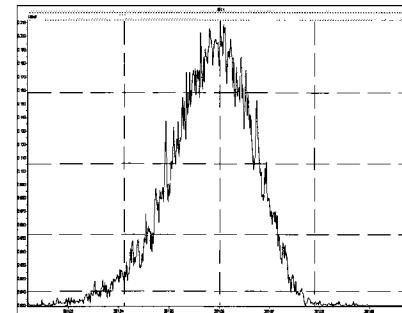
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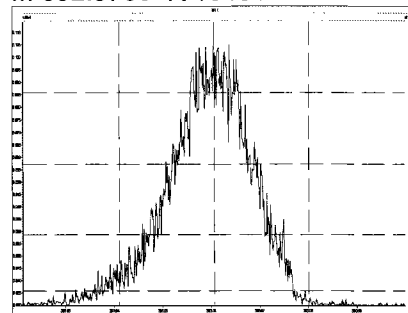
M 366.9792 R 11900



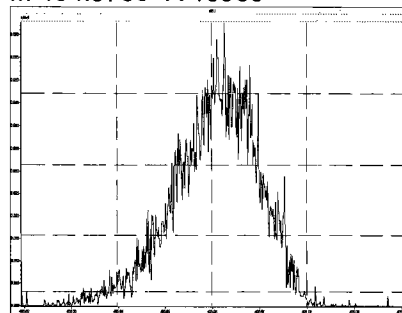
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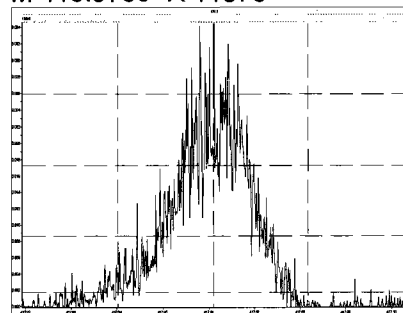
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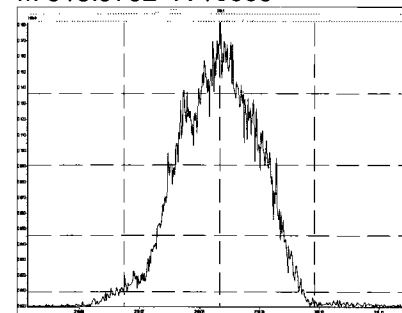
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M 416.9760 R 11876

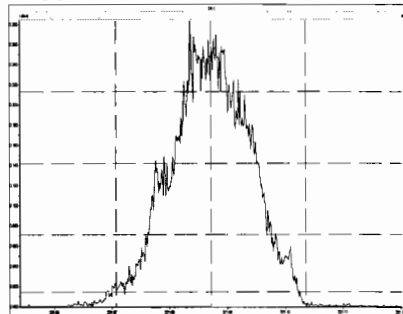


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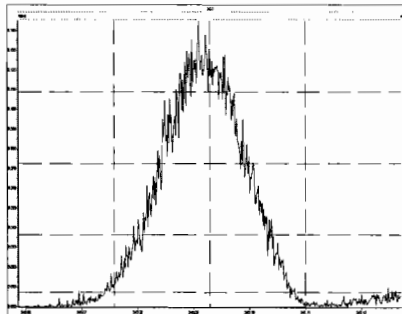


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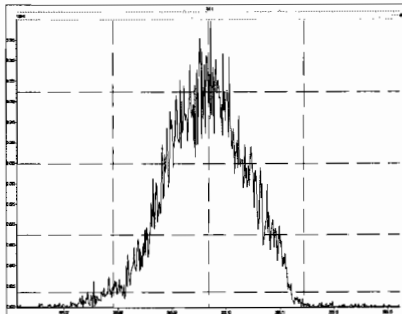
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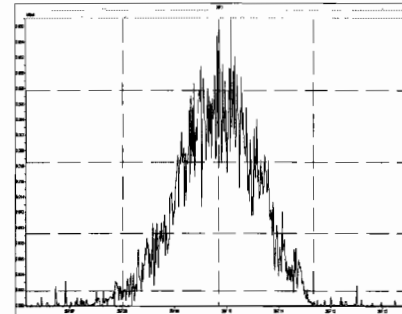
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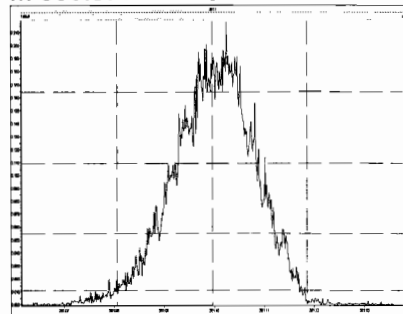
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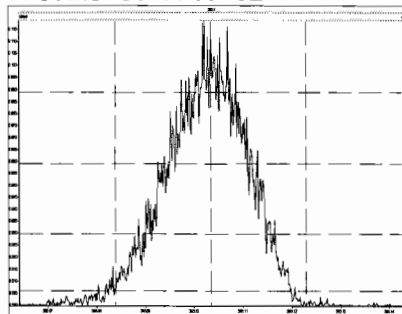
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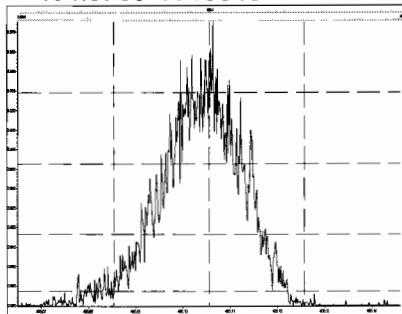
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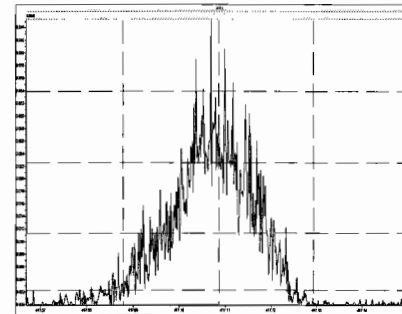
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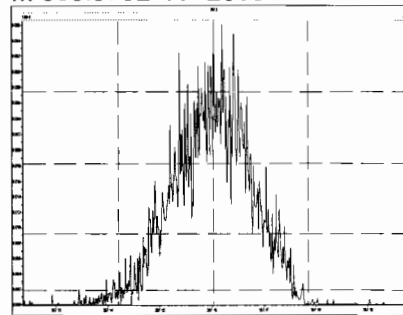
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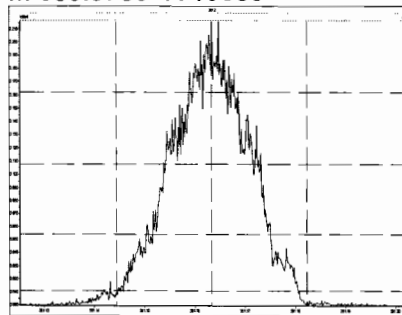
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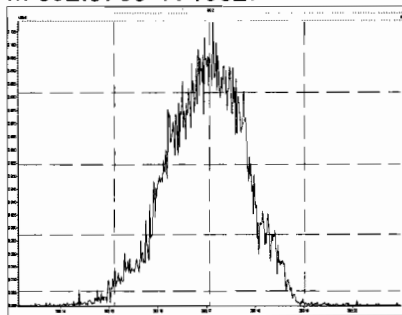
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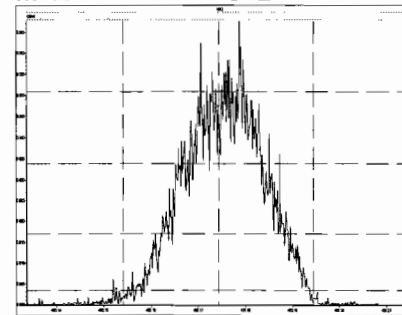
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M 392.9760 R 10827

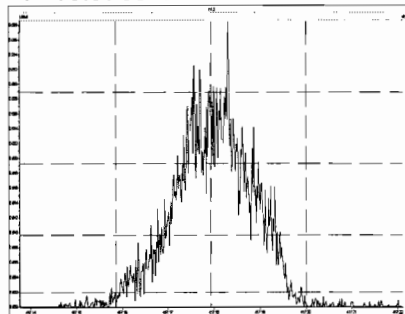


M 404.9760 R 11962

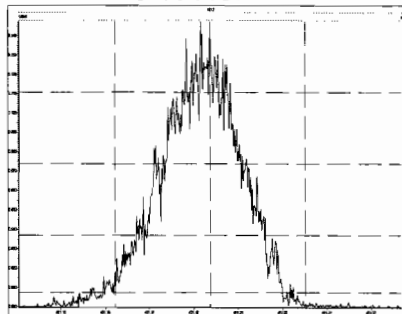


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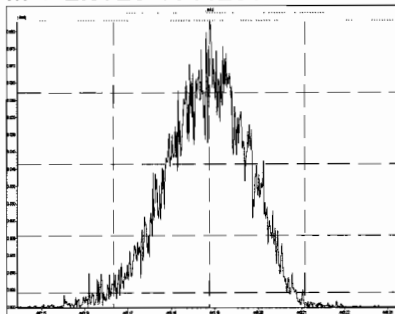
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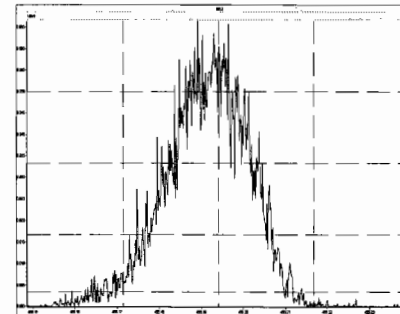
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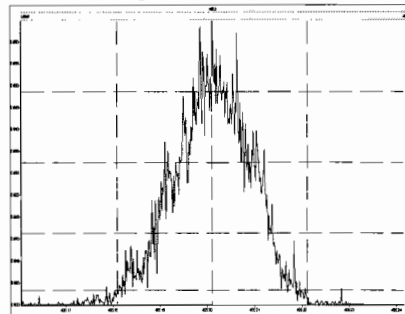
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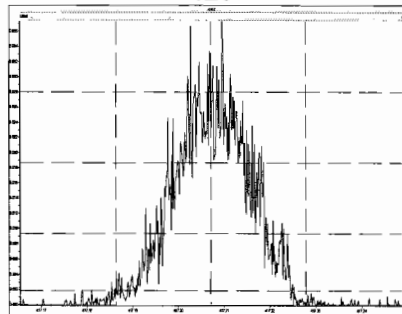
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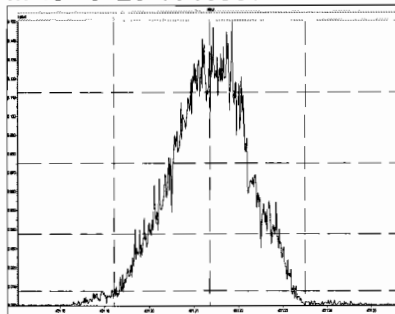
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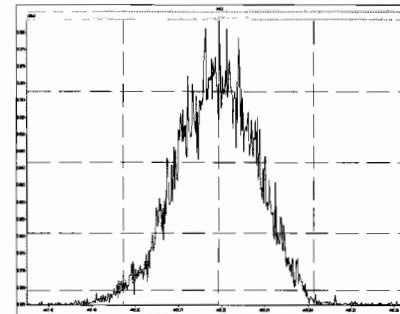
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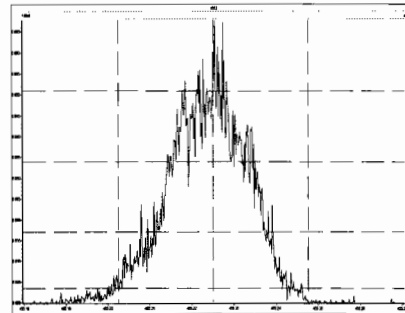
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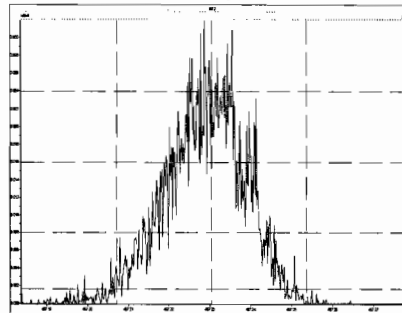
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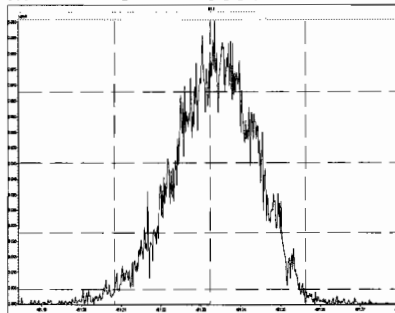
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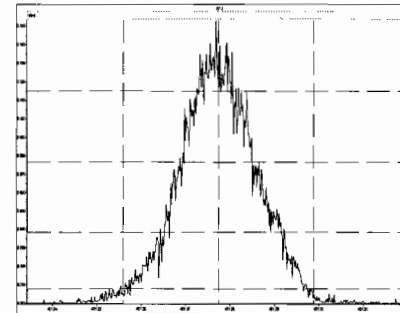
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M 480.9696 R 10695

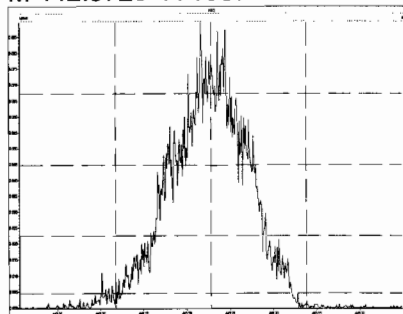


M 430.9728 R 10552

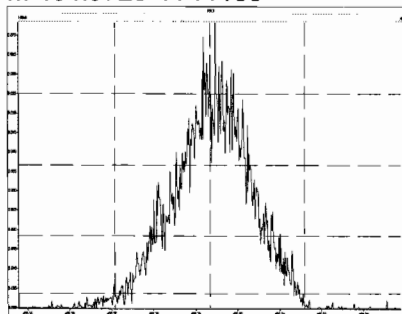


Printed: Tuesday, May 07, 2019 17:12:33 Pacific Daylight Time

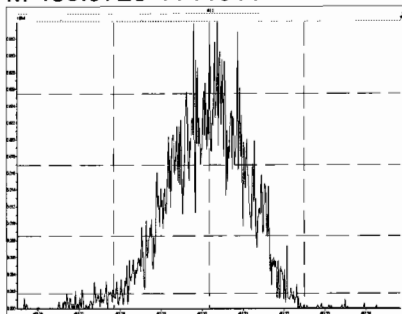
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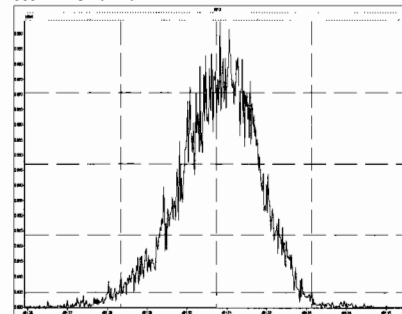
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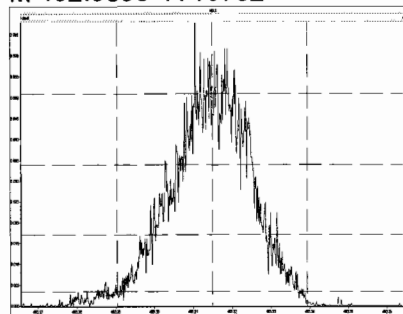
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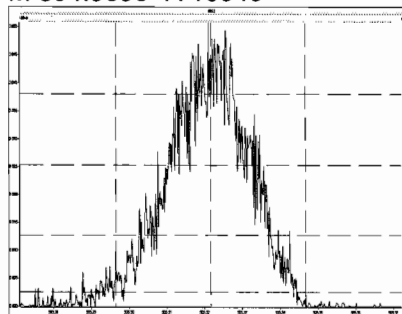
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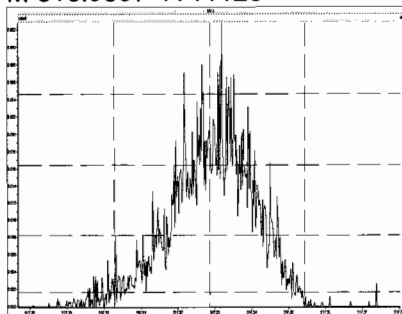
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M 516.9697 R 11126



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 Printed: Wednesday, May 08, 2019 8:07:46 AM Pacific Daylight Time

hz 5.8.19 DB 5/20/19

Method: U:\VG11.PRO\MethDB\1613_rrt-5-7-19.mdb 07 May 2019 12:51:47
 Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Name: 190507K1_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

#	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	7.60e4	0.76	NO	0.925	1.000	26.372	26.36	1.001	1.001	9.9167	99.2	0.0527	9.92
2	2 1,2,3,7,8-PeCDD	2.83e5	0.63	NO	0.905	1.000	31.141	31.14	1.001	1.001	52.411	105	0.0779	52.4
3	3 1,2,3,4,7,8-HxCDD	2.56e5	1.24	NO	1.07	1.000	34.422	34.42	1.000	1.000	51.689	103	0.157	51.7
4	4 1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.967	1.000	34.511	34.53	1.000	1.001	54.377	109	0.161	54.4
5	5 1,2,3,7,8,9-HxCDD	2.46e5	1.25	NO	0.978	1.000	34.831	34.81	1.001	1.000	50.269	101	0.173	50.3
6	6 1,2,3,4,6,7,8-HpCDD	1.96e5	1.05	NO	1.04	1.000	38.308	38.32	1.000	1.001	47.654	95.3	0.186	47.7
7	7 OCDD	3.61e5	0.90	NO	0.972	1.000	41.457	41.47	1.000	1.000	105.18	105	0.228	105
8	8 2,3,7,8-TCDF	1.06e5	0.77	NO	0.938	1.000	25.510	25.51	1.001	1.001	10.161	102	0.0528	10.2
9	9 1,2,3,7,8-PeCDF	4.45e5	1.56	NO	0.976	1.000	29.913	29.91	1.001	1.001	51.910	104	0.0756	51.9
10	10 2,3,4,7,8-PeCDF	4.90e5	1.55	NO	1.00	1.000	30.869	30.86	1.001	1.001	56.296	113	0.0742	56.3
11	11 1,2,3,4,7,8-HxCDF	3.98e5	1.24	NO	1.24	1.000	33.534	33.56	1.000	1.001	53.288	107	0.159	53.3
12	12 1,2,3,6,7,8-HxCDF	4.37e5	1.15	NO	1.10	1.000	33.665	33.68	1.000	1.001	54.868	110	0.164	54.9
13	13 2,3,4,6,7,8-HxCDF	3.80e5	1.25	NO	1.18	1.000	34.282	34.27	1.001	1.001	51.927	104	0.183	51.9
14	14 1,2,3,7,8,9-HxCDF	3.02e5	1.22	NO	1.07	1.000	35.169	35.19	1.000	1.001	53.429	107	0.261	53.4
15	15 1,2,3,4,6,7,8-HpCDF	3.31e5	1.04	NO	1.13	1.000	36.951	36.92	1.001	1.000	56.517	113	0.264	56.5
16	16 1,2,3,4,7,8,9-HpCDF	2.56e5	0.99	NO	1.26	1.000	38.856	38.87	1.000	1.000	53.867	108	0.275	53.9
17	17 OCDF	4.34e5	0.87	NO	1.10	1.000	41.687	41.70	1.000	1.000	93.430	93.4	0.200	93.4
18	18 13C-2,3,7,8-TCDD	8.29e5	0.78	NO	1.05	1.000	26.343	26.34	1.026	1.026	102.10	102	0.130	
19	19 13C-1,2,3,7,8-PeCDD	5.96e5	0.63	NO	0.743	1.000	31.123	31.12	1.212	1.212	103.75	104	0.218	
20	20 13C-1,2,3,4,7,8-HxCDD	4.63e5	1.29	NO	0.646	1.000	34.402	34.41	1.014	1.014	102.33	102	0.354	
21	21 13C-1,2,3,6,7,8-HxCDD	5.41e5	1.25	NO	0.777	1.000	34.510	34.51	1.017	1.017	99.464	99.5	0.295	
22	22 13C-1,2,3,7,8,9-HxCDD	5.00e5	1.25	NO	0.659	1.000	34.799	34.80	1.025	1.025	108.25	108	0.347	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.97e5	1.11	NO	0.534	1.000	38.301	38.30	1.128	1.128	106.06	106	0.355	
24	24 13C-OCDD	7.05e5	0.93	NO	0.470	1.000	41.461	41.46	1.222	1.222	214.10	107	0.519	
25	25 13C-2,3,7,8-TCDF	1.11e6	0.77	NO	0.977	1.000	25.483	25.48	0.992	0.992	101.03	101	0.194	
26	26 13C-1,2,3,7,8-PeCDF	8.78e5	1.59	NO	0.778	1.000	29.892	29.89	1.164	1.164	100.03	100	0.293	
27	27 13C-2,3,4,7,8-PeCDF	8.67e5	1.59	NO	0.750	1.000	30.843	30.84	1.201	1.201	102.41	102	0.304	
28	28 13C-1,2,3,4,7,8-HxCDF	6.01e5	0.51	NO	0.845	1.000	33.529	33.53	0.988	0.988	101.56	102	0.419	
29	29 13C-1,2,3,6,7,8-HxCDF	7.27e5	0.52	NO	1.03	1.000	33.652	33.65	0.992	0.992	101.03	101	0.345	
30	30 13C-2,3,4,6,7,8-HxCDF	6.20e5	0.53	NO	0.893	1.000	34.249	34.25	1.009	1.009	99.164	99.2	0.397	
31	31 13C-1,2,3,7,8,9-HxCDF	5.26e5	0.53	NO	0.734	1.000	35.169	35.17	1.036	1.036	102.34	102	0.483	

50-150%

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Printed: Wednesday, May 08, 2019 8:07:46 AM Pacific Daylight Time

Name: 190507K1_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	5.19e5	0.45	NO	0.754	1.000	36.900	36.91	1.087	1.088	98.155	98.2	0.323	
33	13C-1,2,3,4,7,8,9-HpCDF	3.76e5	0.44	NO	0.539	1.000	38.851	38.86	1.145	1.145	99.700	99.7	0.452	
34	13C-OCDF	8.43e5	0.90	NO	0.593	1.000	41.689	41.69	1.228	1.228	202.98	101	0.322	
35	37Cl-2,3,7,8-TCDD	8.22e4			1.07	1.000	26.343	26.36	1.026	1.026	9.9341	99.3	0.0341	
36	13C-1,2,3,4-TCDD	7.74e5	0.80	NO	1.00	1.000	25.680	25.68	1.000	1.000	100.00	100	0.137	
37	13C-1,2,3,4-TCDF	1.13e6	0.79	NO	1.00	1.000	24.050	24.05	1.000	1.000	100.00	100	0.190	
38	13C-1,2,3,4,6,9-HxCDF	7.01e5	0.53	NO	1.00	1.000	33.940	33.94	1.000	1.000	100.00	100	0.354	

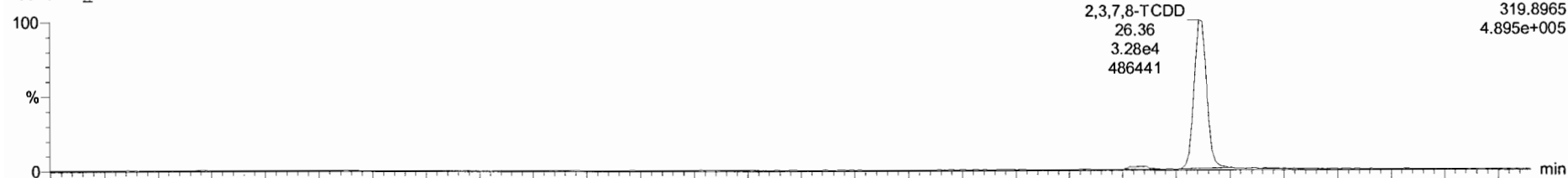
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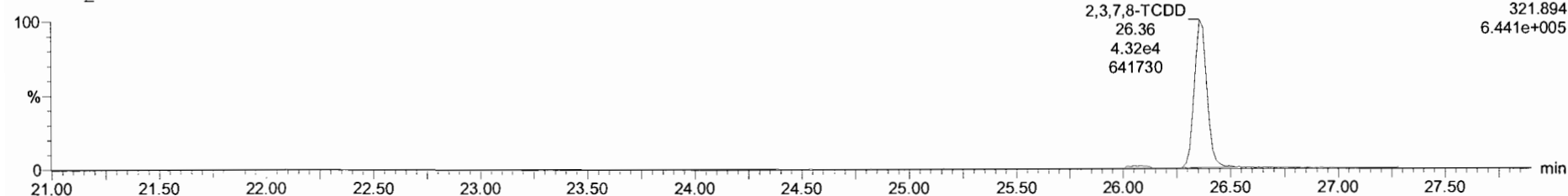
Name: 190507K1_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

2,3,7,8-TCDD

190507K1_8



190507K1_8

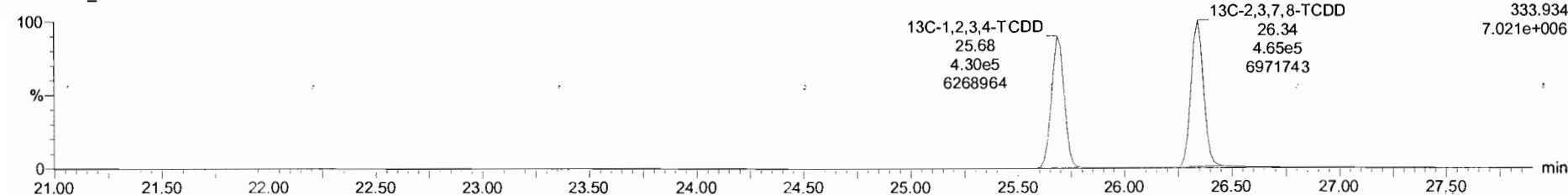


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190507K1_8



190507K1_8



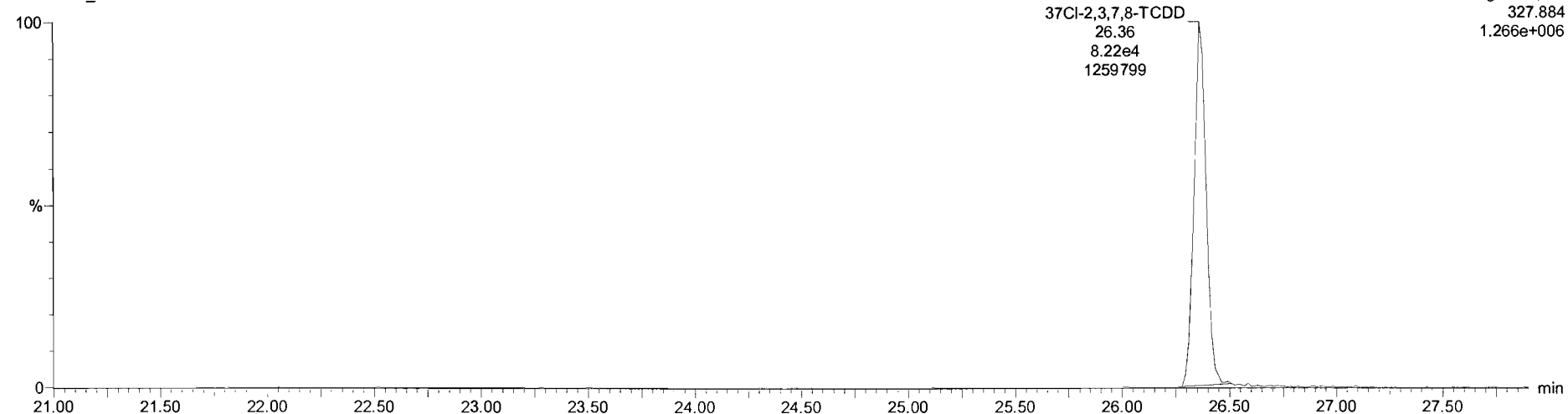
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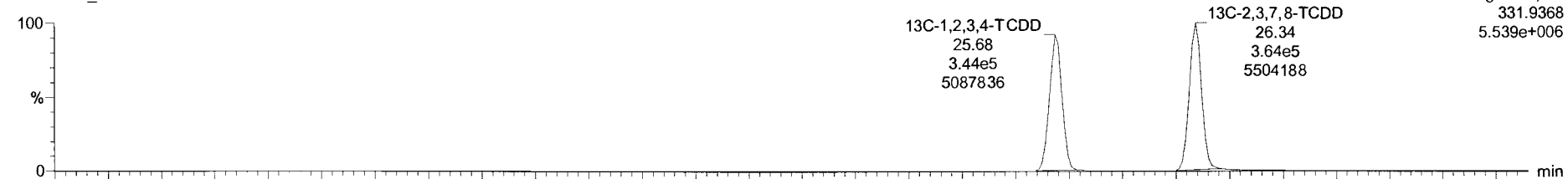
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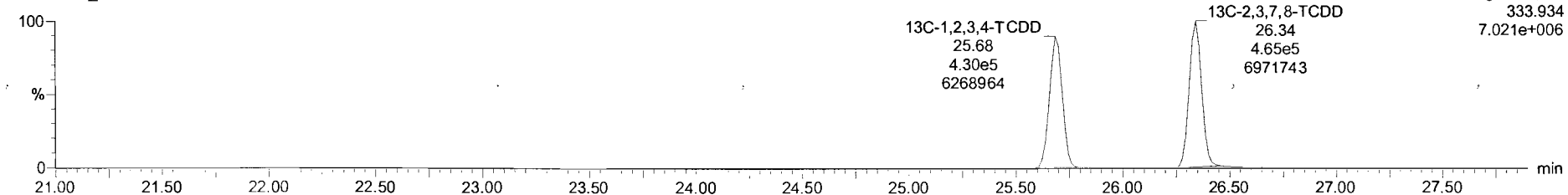


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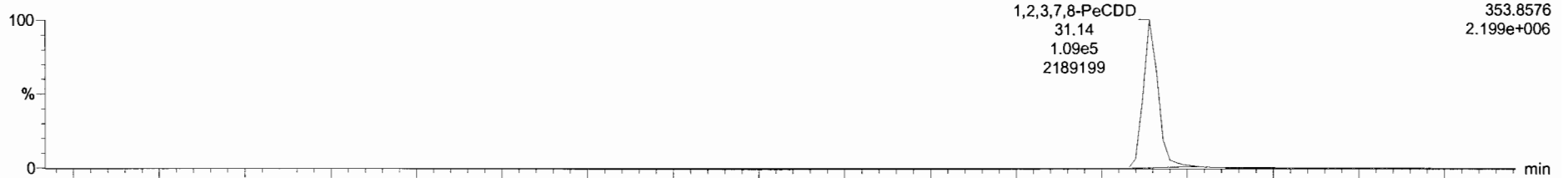
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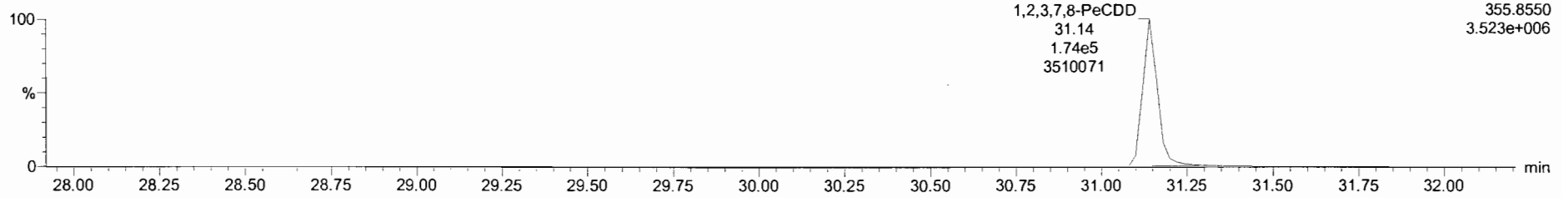
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1,2,3,7,8-PeCDD

190507K1_8

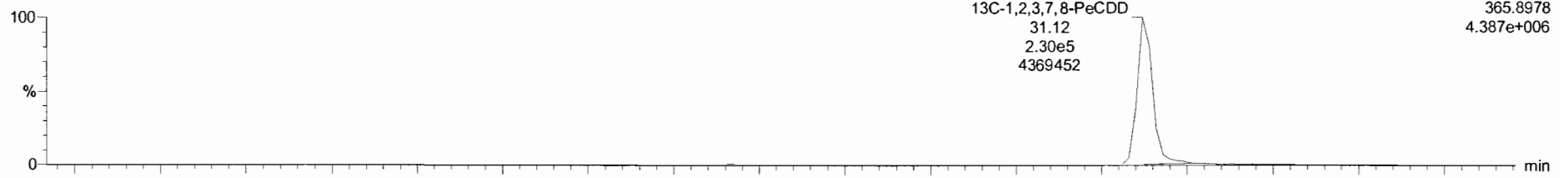


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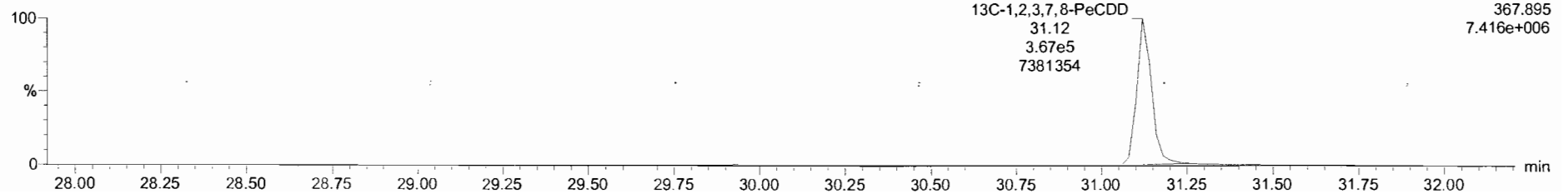


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190507K1_8



190507K1_8



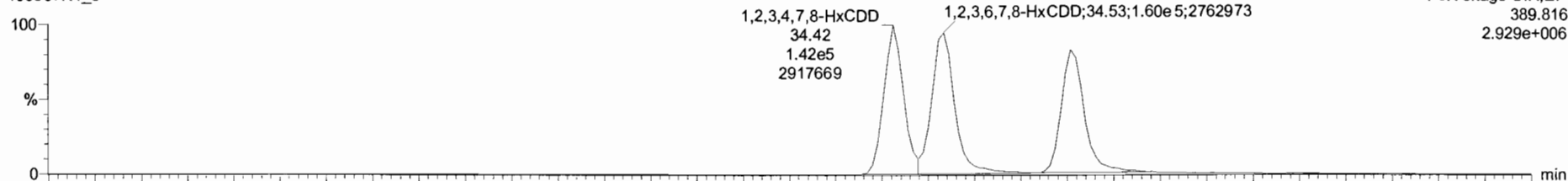
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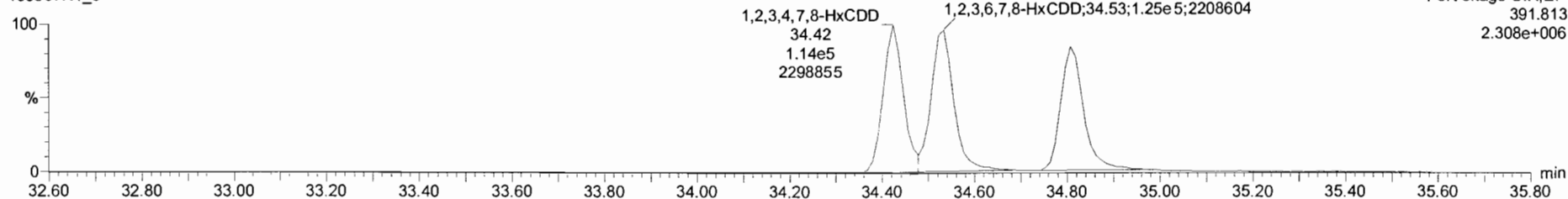
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1,2,3,4,7,8-HxCDD

190507K1_8

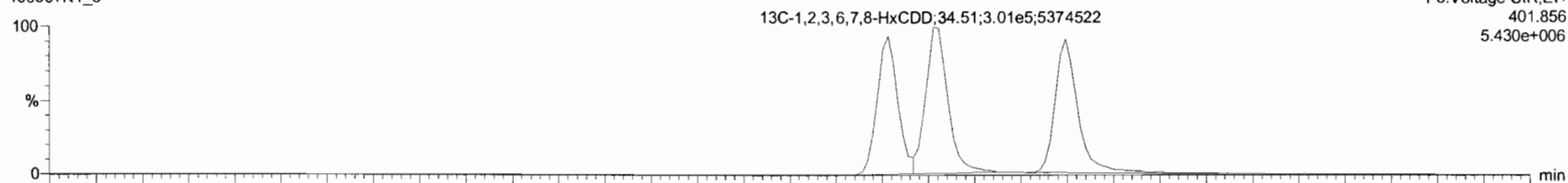


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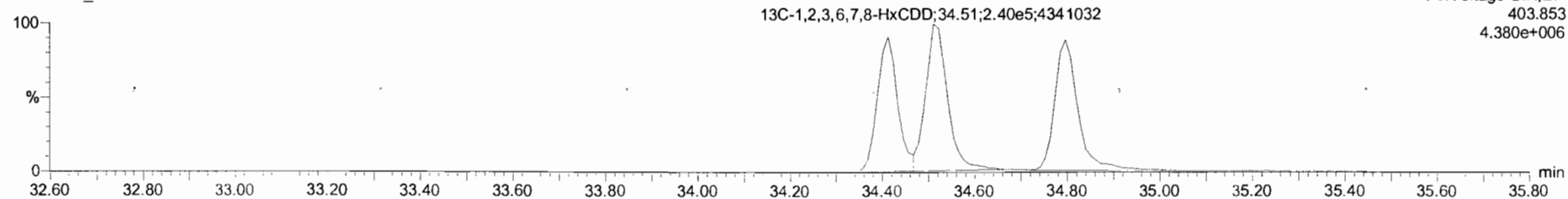


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190507K1_8



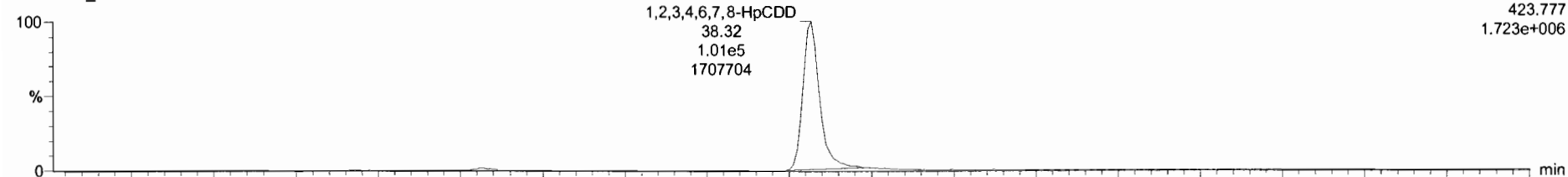
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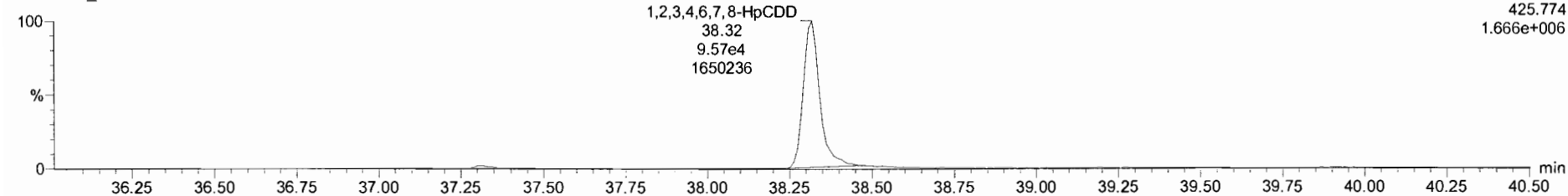
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1,2,3,4,6,7,8-HpCDD

190507K1_8

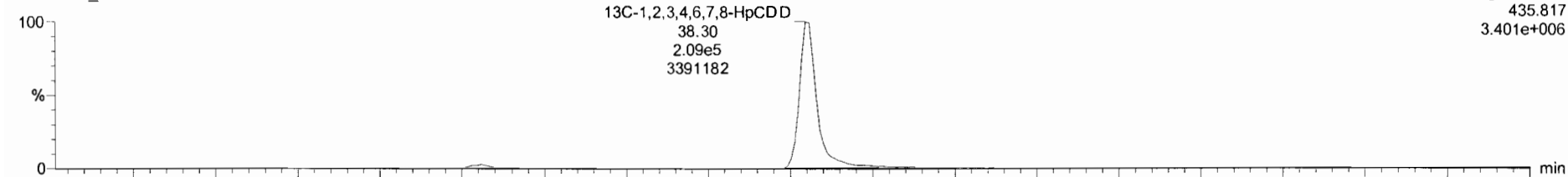


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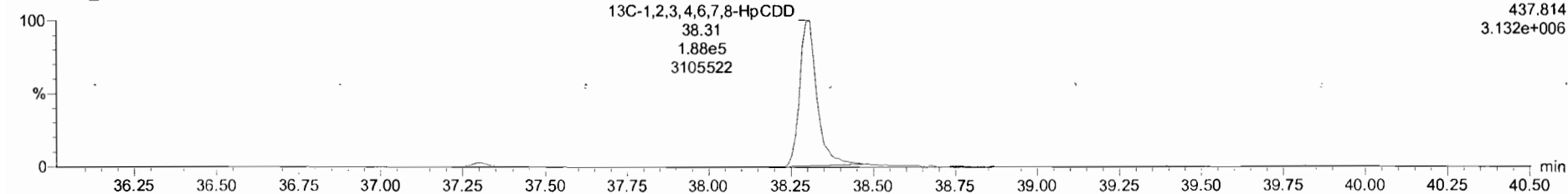


¹³C-1,2,3,4,6,7,8-HpCDD

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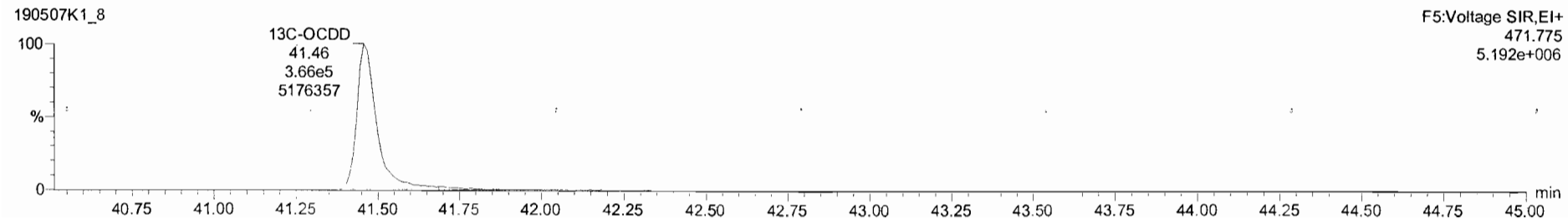
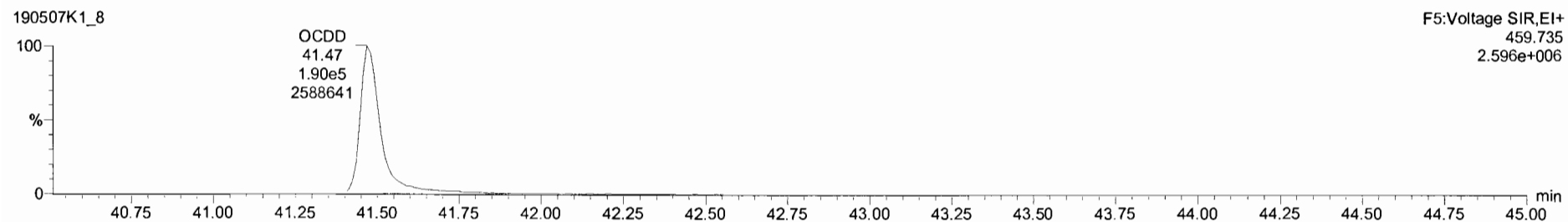
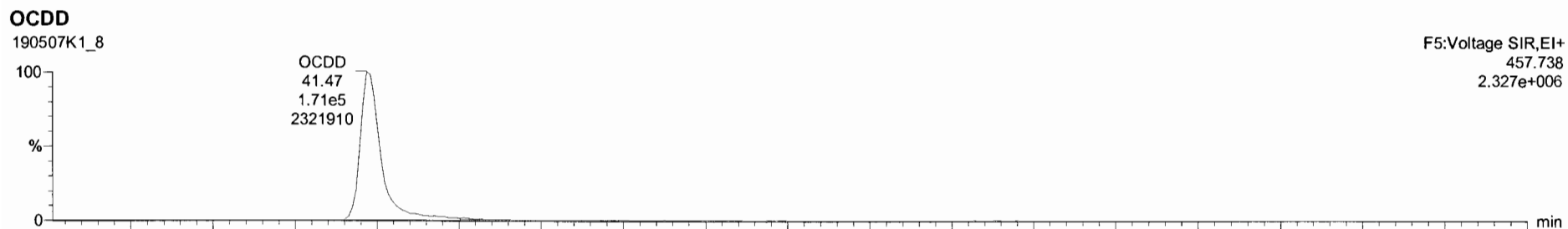
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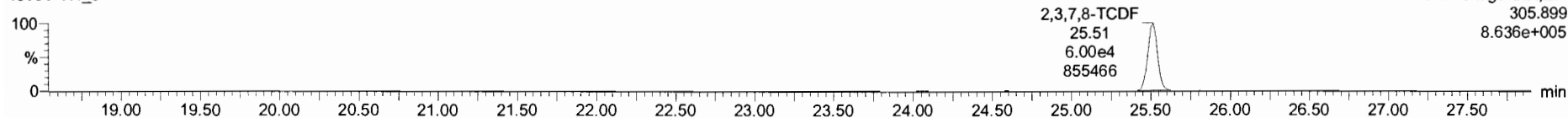
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2,3,7,8-TCDF

190507K1_8

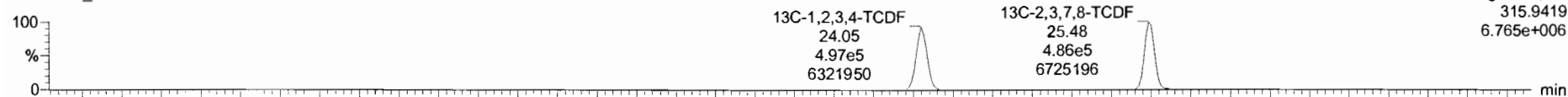


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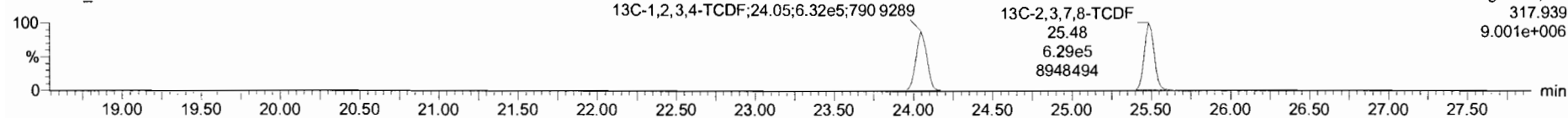


13C-2,3,7,8-TCDF

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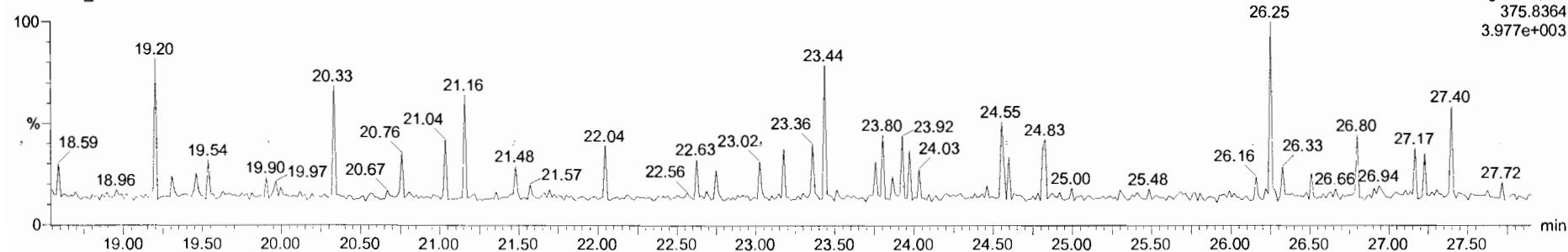


190507K1_8



DPE1

190507K1_8

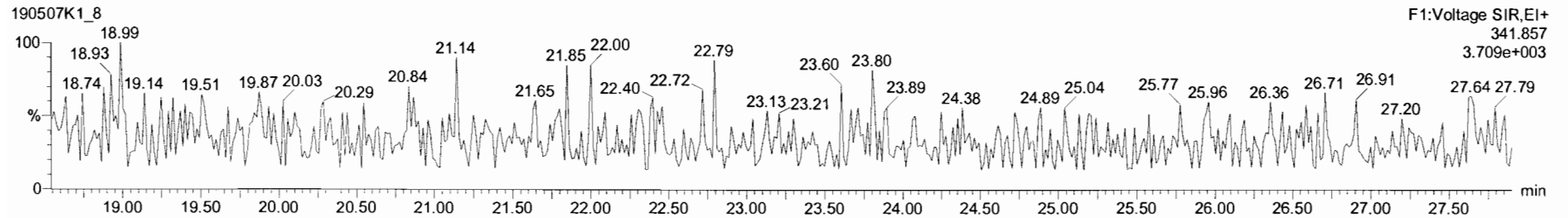
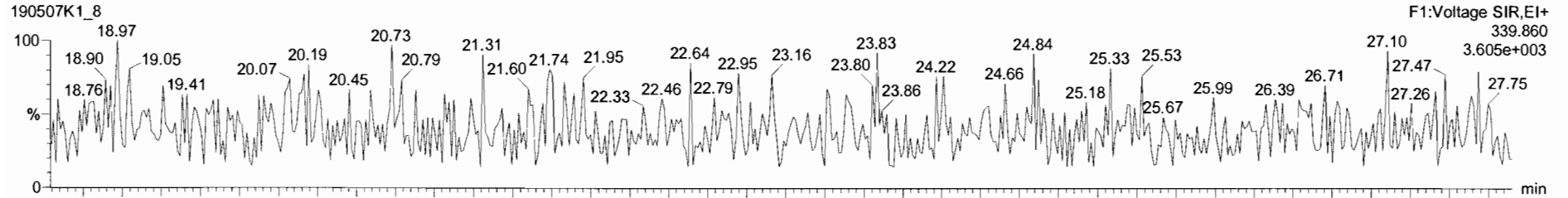


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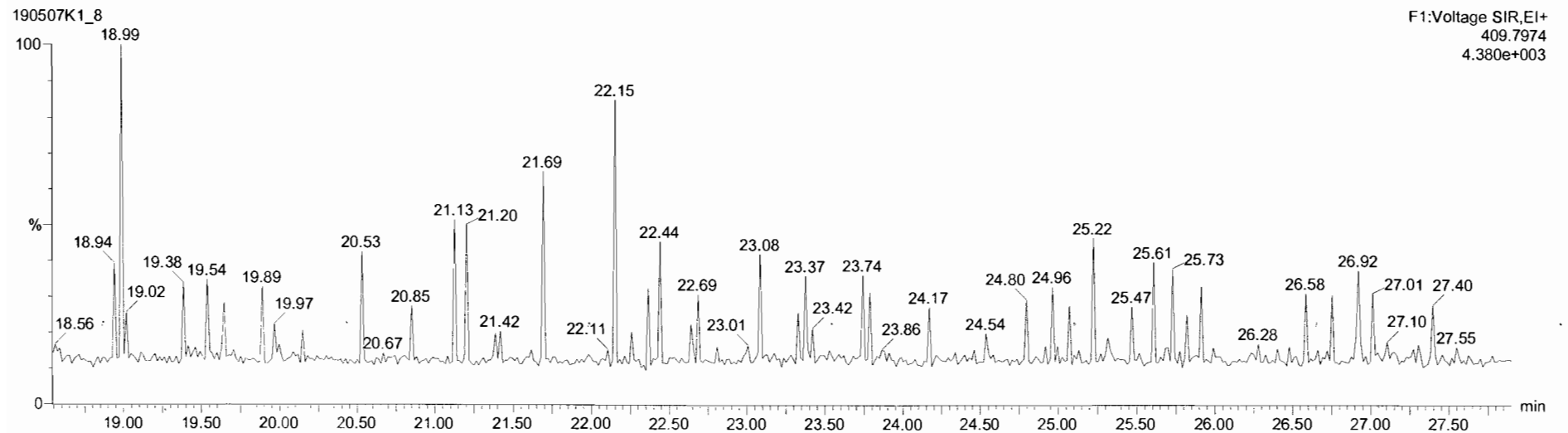
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Name: 190507K1_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

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DPE6



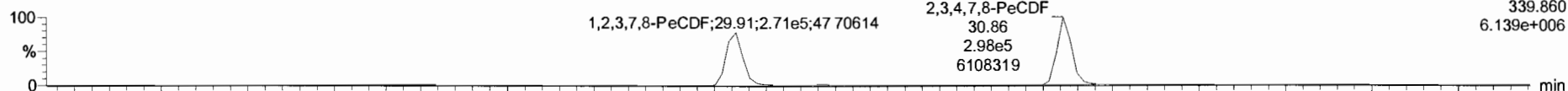
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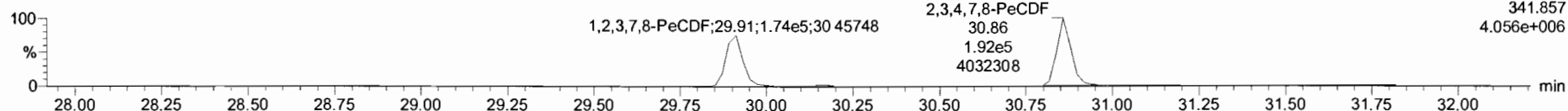
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1,2,3,7,8-PeCDF

190507K1_8

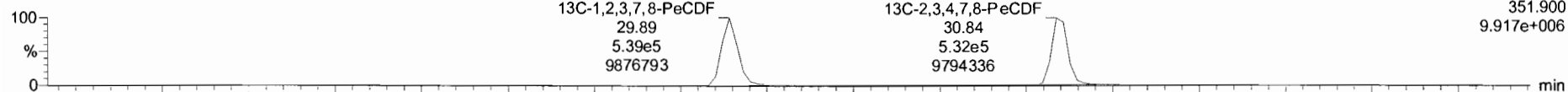


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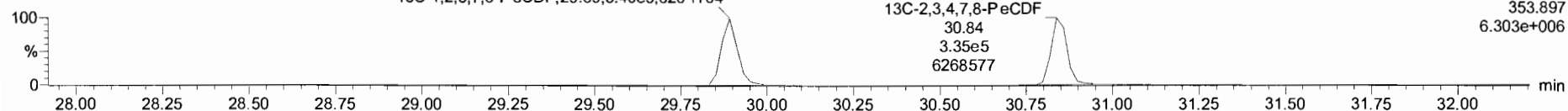


13C-1,2,3,7,8-PeCDF

190507K1_8

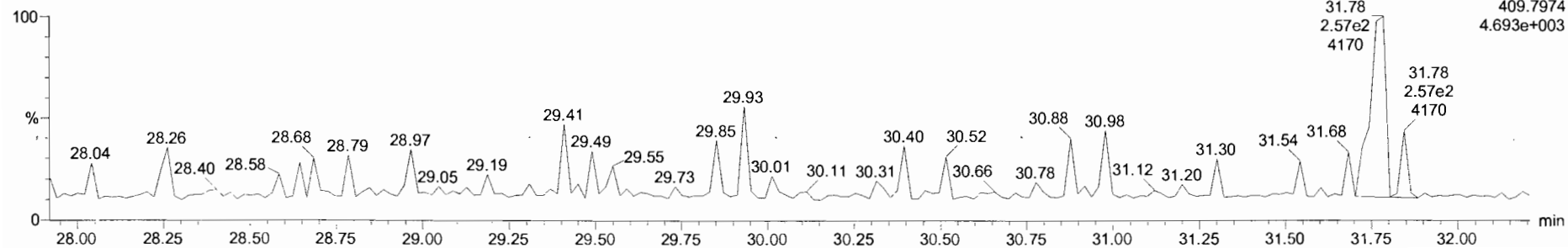


190507K1_8



DPE2

190507K1_8

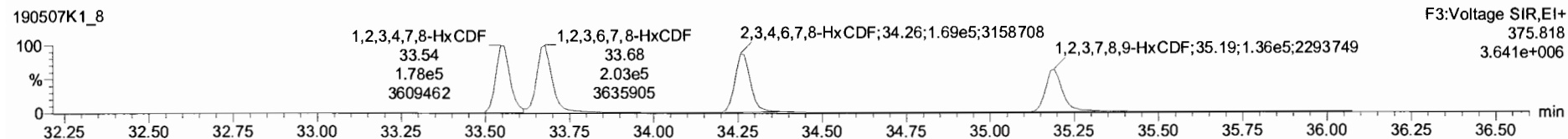
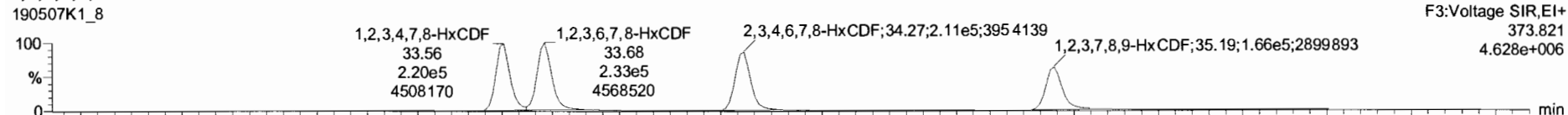


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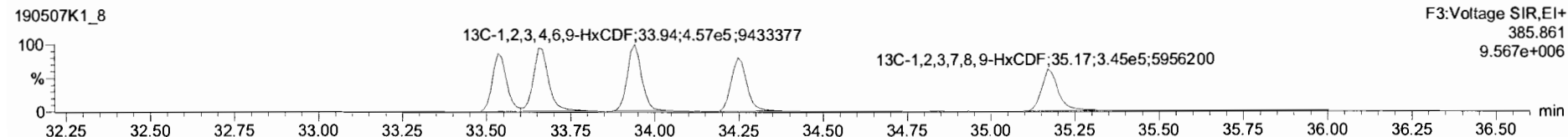
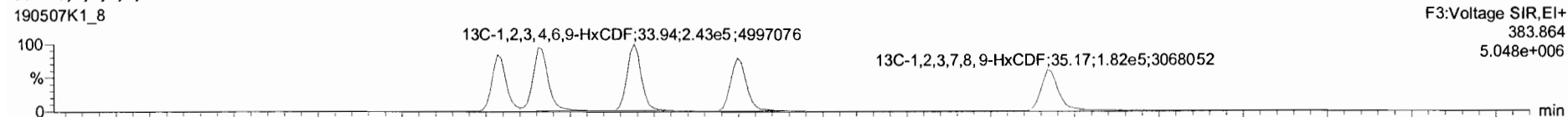
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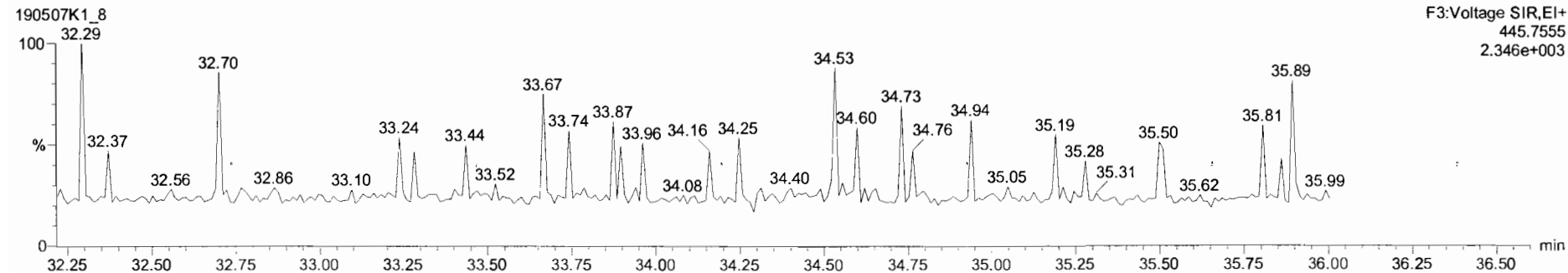
1,2,3,4,7,8-HxCDF



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



DPE3

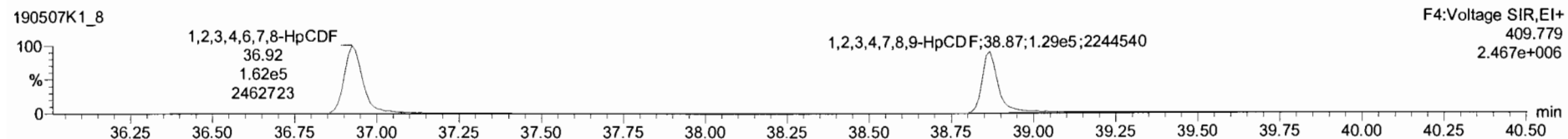
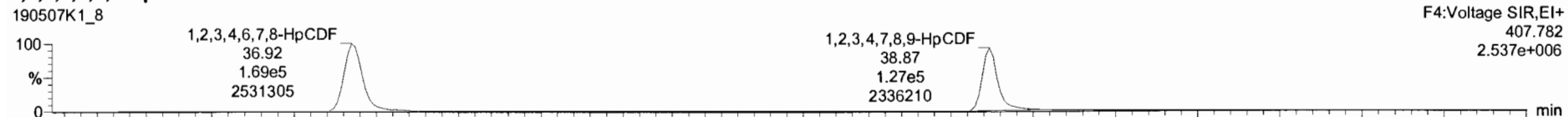


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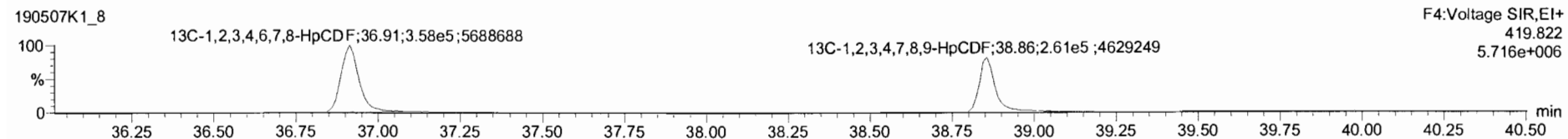
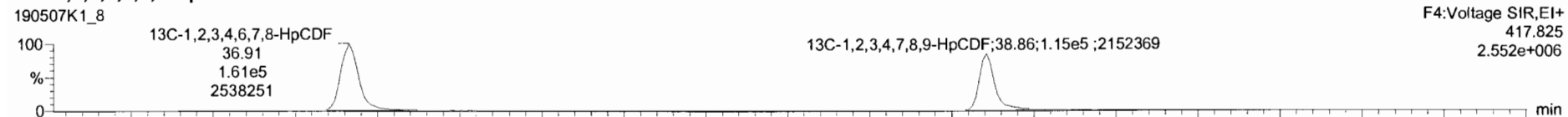
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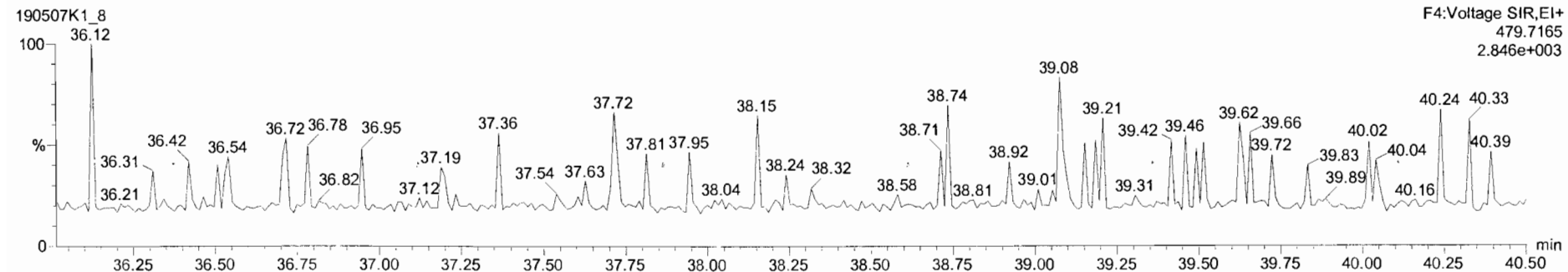
1,2,3,4,6,7,8-HpCDF



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



DPE4

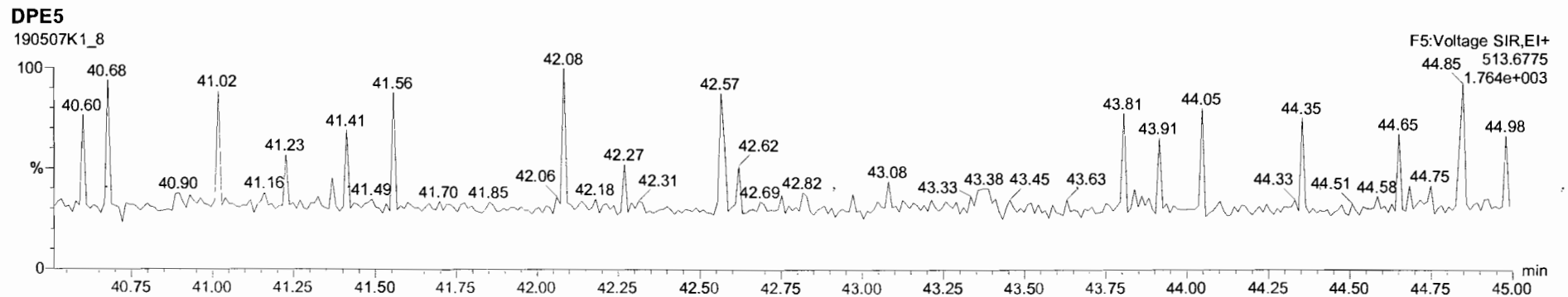
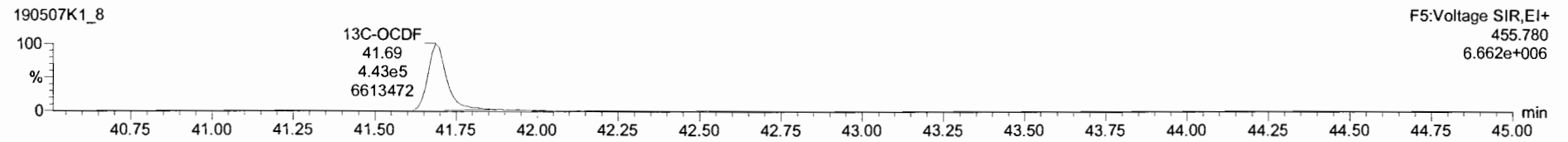
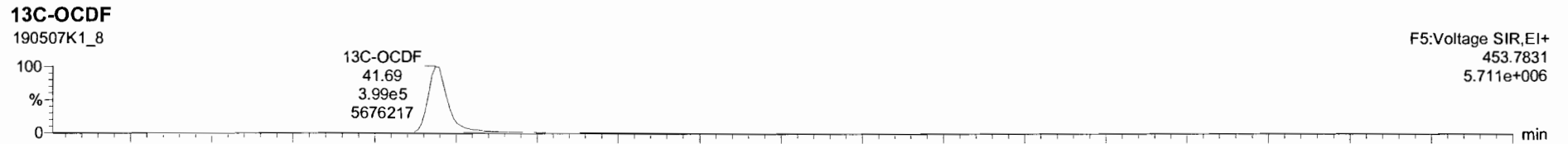
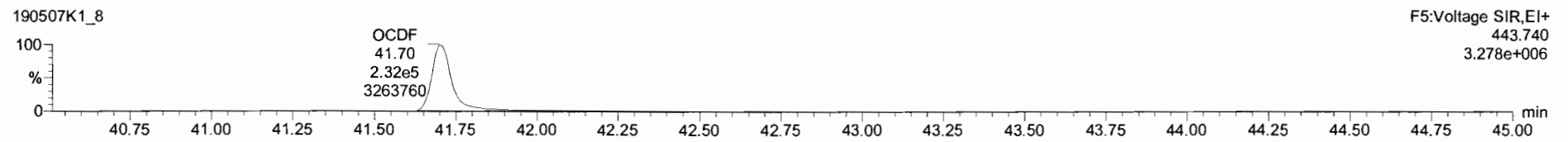
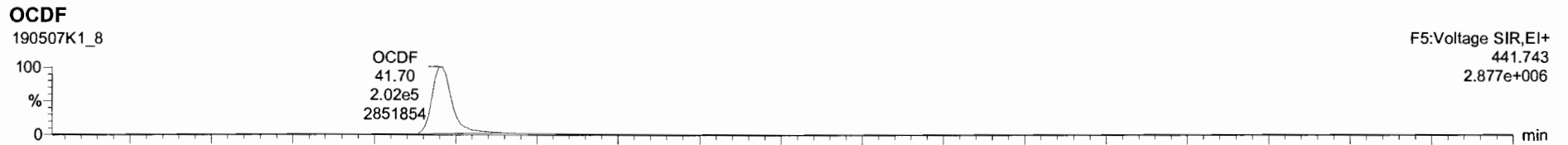


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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K1_8, Date: 07-May-2019, Time: 16:16:59, ID: SS190507K1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207



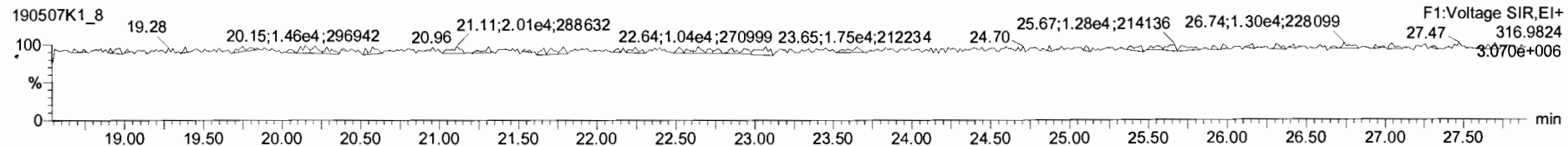
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

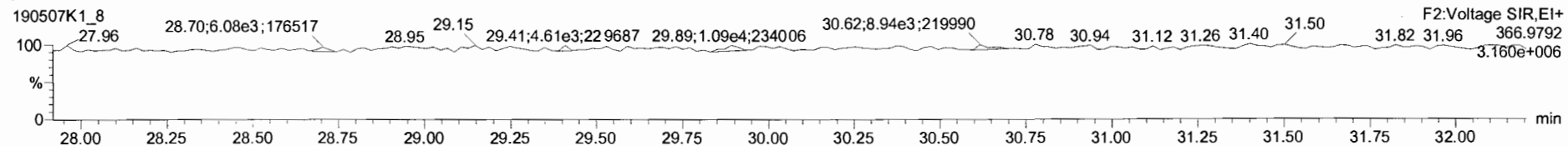
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

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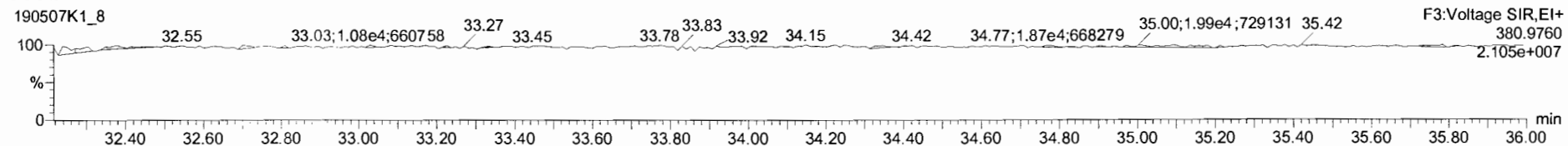
PFK1



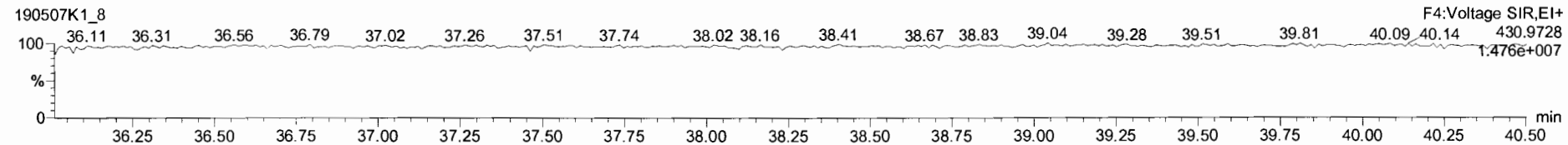
PFK2



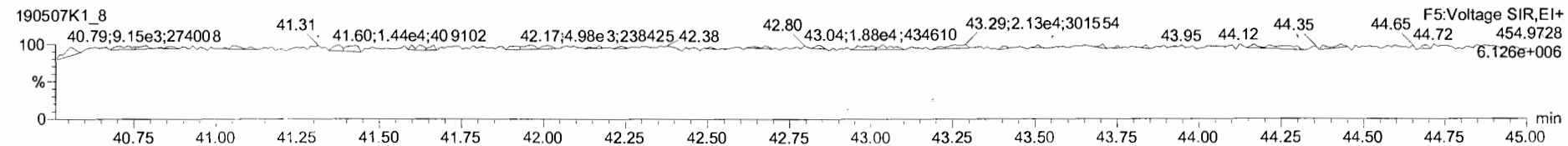
PFK3



PFK4



PFK5



Dataset: U:\VG11.PRO\Results\190507K1\190507K2-1.qld

Last Altered: Wednesday, May 08, 2019 8:10:45 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 8:11:52 AM Pacific Daylight Time

Hc 5-8-19

DB 5/20/19

Method: U:\VG11.PRO\MethDB\1613_rrt-5-7-19.mdb 07 May 2019 12:51:47
Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Name: 190507K2_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.96e4	0.78	NO	0.925	1.000	26.372	26.36	1.001	1.001	9.7504	97.5	0.0601	9.75
2	2 1,2,3,7,8-PeCDD	1.92e5	0.60	NO	0.905	1.000	31.141	31.14	1.001	1.001	52.019	104	0.135	52.0
3	3 1,2,3,4,7,8-HxCDD	1.65e5	1.26	NO	1.07	1.000	34.422	34.42	1.000	1.000	40.468	80.9	0.208	40.5
4	4 1,2,3,6,7,8-HxCDD	1.70e5	1.27	NO	0.967	1.000	34.522	34.53	1.000	1.000	52.044	104	0.299	52.0
5	5 1,2,3,7,8,9-HxCDD	1.57e5	1.21	NO	0.978	1.000	34.831	34.81	1.001	1.000	49.488	99.0	0.295	49.5
6	6 1,2,3,4,6,7,8-HpCDD	1.25e5	1.09	NO	1.04	1.000	38.308	38.32	1.000	1.001	46.558	93.1	0.278	46.6
7	7 OCDD	2.20e5	0.89	NO	0.972	1.000	41.468	41.48	1.000	1.000	116.21	116	0.310	116
8	8 2,3,7,8-TCDF	6.88e4	0.78	NO	0.938	1.000	25.510	25.51	1.001	1.001	9.8653	98.7	0.0599	9.87
9	9 1,2,3,7,8-PeCDF	2.98e5	1.59	NO	0.976	1.000	29.913	29.91	1.001	1.001	48.808	97.6	0.107	48.8
10	10 2,3,4,7,8-PeCDF	3.02e5	1.60	NO	1.00	1.000	30.869	30.86	1.001	1.001	50.503	101	0.112	50.5
11	11 1,2,3,4,7,8-HxCDF	2.51e5	1.28	NO	1.24	1.000	33.534	33.56	1.000	1.001	42.310	84.6	0.183	42.3
12	12 1,2,3,6,7,8-HxCDF	2.65e5	1.25	NO	1.10	1.000	33.676	33.68	1.000	1.000	49.107	98.2	0.216	49.1
13	13 2,3,4,6,7,8-HxCDF	2.52e5	1.24	NO	1.18	1.000	34.282	34.27	1.001	1.001	47.589	95.2	0.219	47.6
14	14 1,2,3,7,8,9-HxCDF	1.94e5	1.26	NO	1.07	1.000	35.169	35.19	1.000	1.001	48.711	97.4	0.322	48.7
15	15 1,2,3,4,6,7,8-HpCDF	1.91e5	1.04	NO	1.13	1.000	36.951	36.92	1.001	1.000	50.687	101	0.231	50.7
16	16 1,2,3,4,7,8,9-HpCDF	1.57e5	0.99	NO	1.26	1.000	38.856	38.87	1.000	1.000	51.308	103	0.248	51.3
17	17 OCDF	2.63e5	0.85	NO	1.10	1.000	41.687	41.70	1.000	1.000	92.671	92.7	0.237	92.7
18	18 13C-2,3,7,8-TCDD	5.49e5	0.79	NO	1.05	1.000	26.343	26.34	1.026	1.026	101.33	101	0.176	
19	19 13C-1,2,3,7,8-PeCDD	4.08e5	0.63	NO	0.743	1.000	31.123	31.12	1.212	1.212	106.23	106	0.222	
20	20 13C-1,2,3,4,7,8-HxCDD	3.81e5	1.26	NO	0.646	1.000	34.402	34.41	1.014	1.014	127.08	127	0.322	
21	21 13C-1,2,3,6,7,8-HxCDD	3.37e5	1.28	NO	0.777	1.000	34.510	34.52	1.017	1.017	93.509	93.5	0.268	
22	22 13C-1,2,3,7,8,9-HxCDD	3.24e5	1.27	NO	0.659	1.000	34.799	34.80	1.025	1.025	105.79	106	0.315	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.59e5	1.05	NO	0.534	1.000	38.301	38.30	1.128	1.128	104.55	105	0.389	
24	24 13C-OCDD	3.90e5	0.88	NO	0.470	1.000	41.461	41.47	1.222	1.222	178.53	89.3	0.468	
25	25 13C-2,3,7,8-TCDF	7.44e5	0.79	NO	0.977	1.000	25.483	25.48	0.992	0.992	101.65	102	0.294	
26	26 13C-1,2,3,7,8-PeCDF	6.25e5	1.56	NO	0.778	1.000	29.893	29.89	1.164	1.164	107.38	107	0.390	
27	27 13C-2,3,4,7,8-PeCDF	5.95e5	1.57	NO	0.750	1.000	30.843	30.84	1.201	1.201	106.00	106	0.405	
28	28 13C-1,2,3,4,7,8-HxCDF	4.78e5	0.51	NO	0.845	1.000	33.529	33.53	0.988	0.988	121.85	122	0.545	
29	29 13C-1,2,3,6,7,8-HxCDF	4.92e5	0.52	NO	1.03	1.000	33.652	33.67	0.992	0.992	103.24	103	0.448	
30	30 13C-2,3,4,6,7,8-HxCDF	4.49e5	0.52	NO	0.893	1.000	34.249	34.25	1.009	1.009	108.34	108	0.515	
31	31 13C-1,2,3,7,8,9-HxCDF	3.71e5	0.54	NO	0.734	1.000	35.169	35.17	1.036	1.036	108.96	109	0.627	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.34e5	0.43	NO	0.754	1.000	36.900	36.91	1.087	1.088	95.313	95.3	0.389	

Dataset: U:\VG11.PRO\Results\190507K1\190507K2-1.qld

Last Altered: Wednesday, May 08, 2019 8:10:45 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 8:11:52 AM Pacific Daylight Time

Name: 190507K2_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.42e5	0.47	NO	0.539	1.000	38.851	38.86	1.145	1.145	96.836	96.8	0.545	
34	34 13C-OCDF	5.14e5	0.89	NO	0.593	1.000	41.689	41.69	1.228	1.228	186.97	93.5	0.402	
35	35 37Cl-2,3,7,8-TCDD	5.28e4			1.07	1.000	26.343	26.36	1.026	1.026	9.5583	95.6	0.0488	
36	36 13C-1,2,3,4-TCDD	5.17e5	0.77	NO	1.00	1.000	25.680	25.68	1.000	1.000	100.00	100	0.184	
37	37 13C-1,2,3,4-TCDF	7.49e5	0.80	NO	1.00	1.000	24.050	24.06	1.000	1.000	100.00	100	0.288	
38	38 13C-1,2,3,4,6,9-HxCDF	4.64e5	0.51	NO	1.00	1.000	33.940	33.94	1.000	1.000	100.00	100	0.460	

Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 8:05:38 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 8:05:41 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\CPSM-5-7-19.mdb 07 May 2019 13:29:19
Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

Name: 190507K2_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

#	Name	RT
1	1,3,6,8-TCDD (First)	22.41
2	1,2,8,9-TCDD (Last)	27.29
3	1,2,4,7,9-PeCDD (First)	28.99
4	1,2,3,8,9-PeCDD (Last)	31.50
5	1,2,4,6,7,9-HxCDD (First)	32.91
6	1,2,3,7,8,9-HxCDD (Last)	34.81
7	1,2,3,4,6,7,9-HpCDD (First)	37.31
8	1,2,3,4,6,7,8-HpCDD (Last)	38.32
9	1,3,6,8-TCDF (First)	20.23
10	1,2,8,9-TCDF (Last)	27.46
11	1,3,4,6,8-PeCDF (First)	27.36
12	1,2,3,8,9-PeCDF (Last)	31.76
13	1,2,3,4,6,8-HxCDF (First)	32.38
14	1,2,3,7,8,9-HxCDF (Last)	35.19
15	1,2,3,4,6,7,8-HpCDF (First)	36.92
16	1,2,3,4,7,8,9-HpCDF (Last)	38.87

Dataset: Untitled

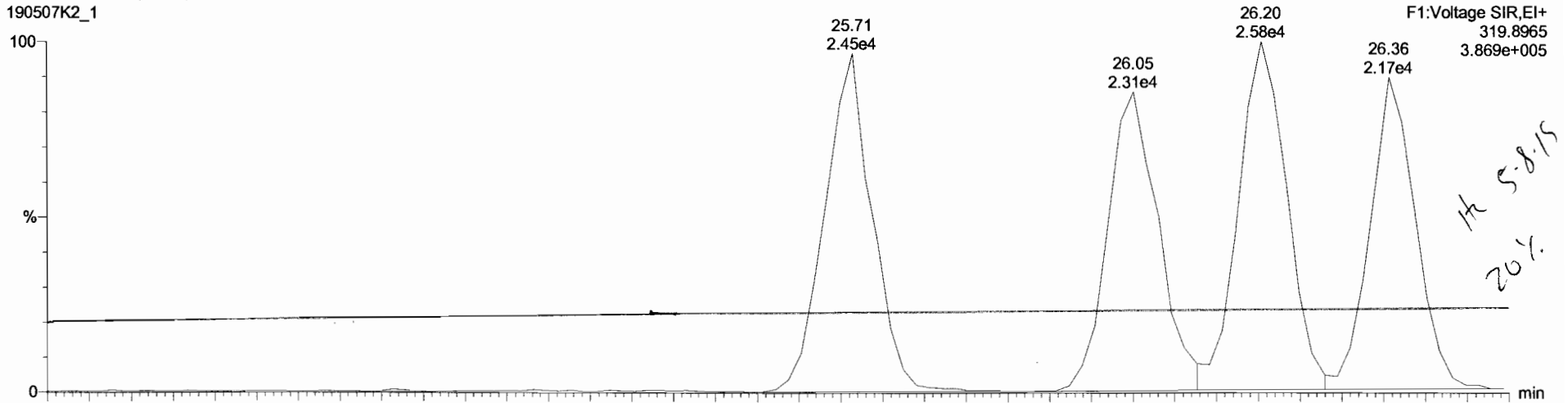
Last Altered: Wednesday, May 08, 2019 8:05:38 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 8:05:41 AM Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\CPSM-5-7-19.mdb 07 May 2019 13:29:19
Calibration: U:\VG11.PRO\CurveDB\db5_1613vg11-5-7-19.cdb 08 May 2019 07:55:45

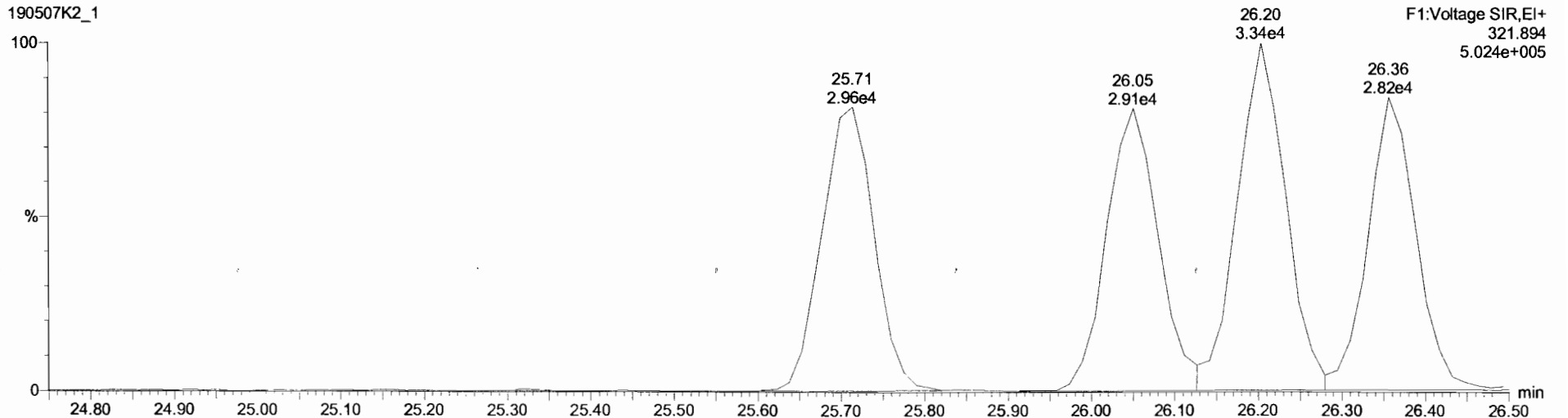
Name: 190507K2_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

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

190507K2_1



190507K2_1



Dataset: Untitled

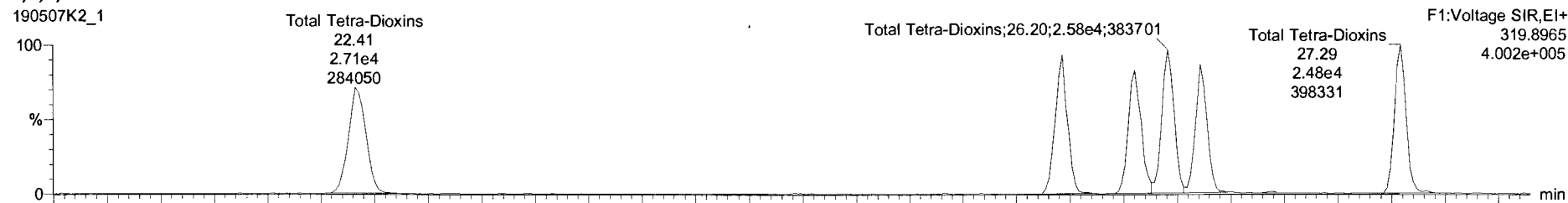
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

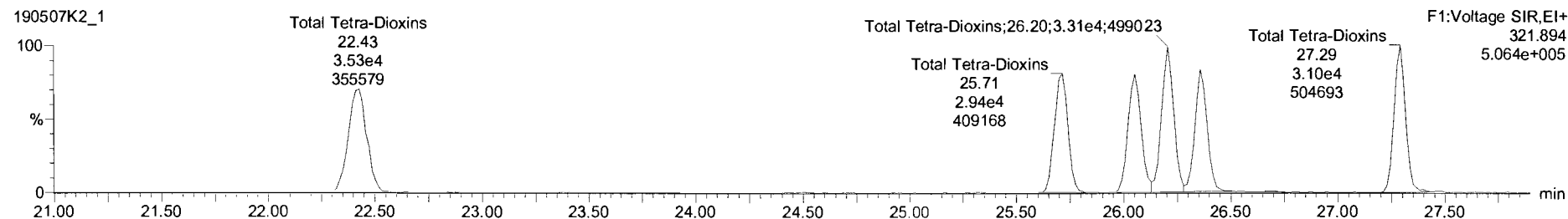
Name: 190507K2_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

2,3,7,8-TCDD

190507K2_1



190507K2_1

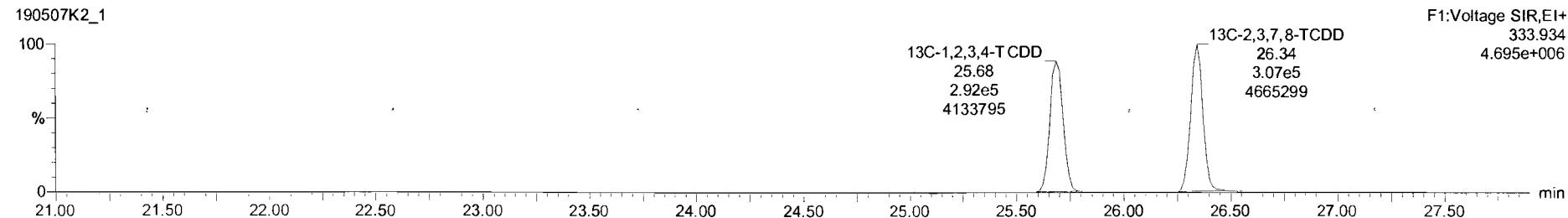


13C-2,3,7,8-TCDD

190507K2_1



190507K2_1



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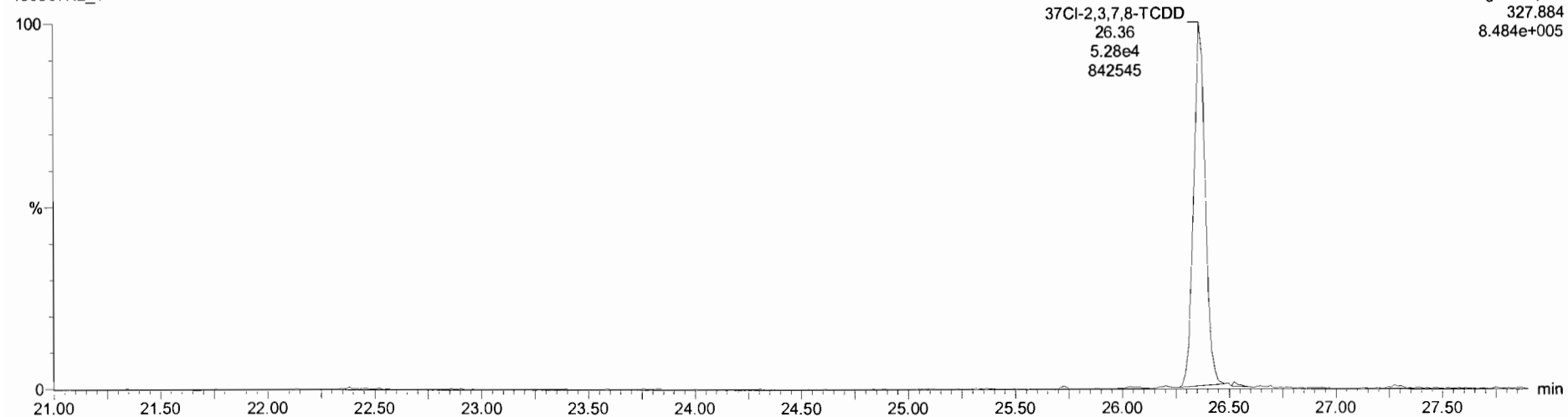
Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

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

190507K2_1

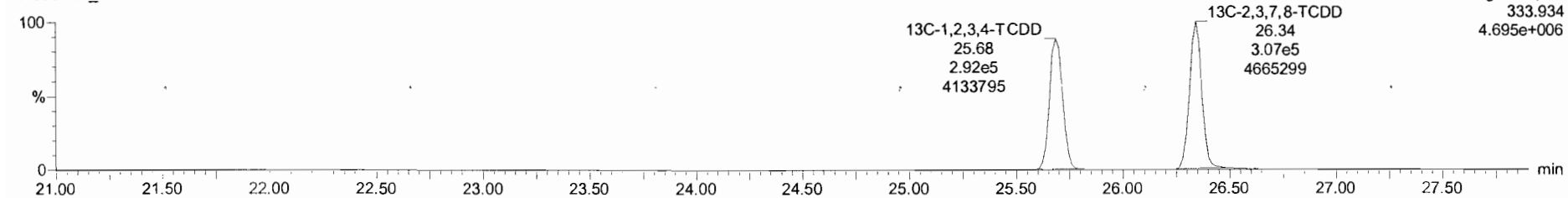


13C-1,2,3,4-TCDD

190507K2_1



190507K2_1

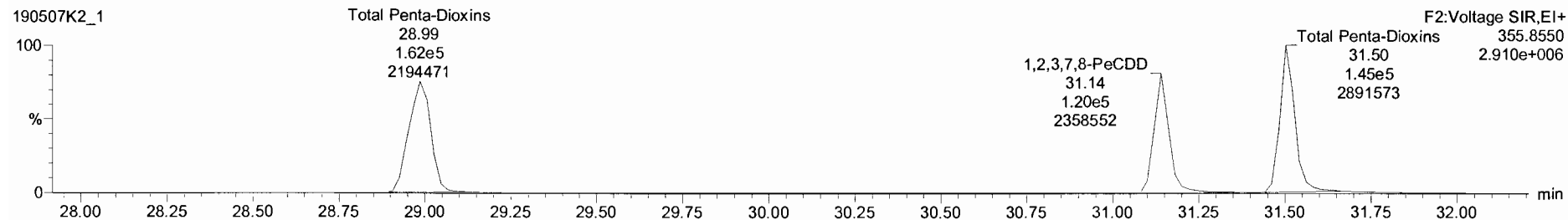
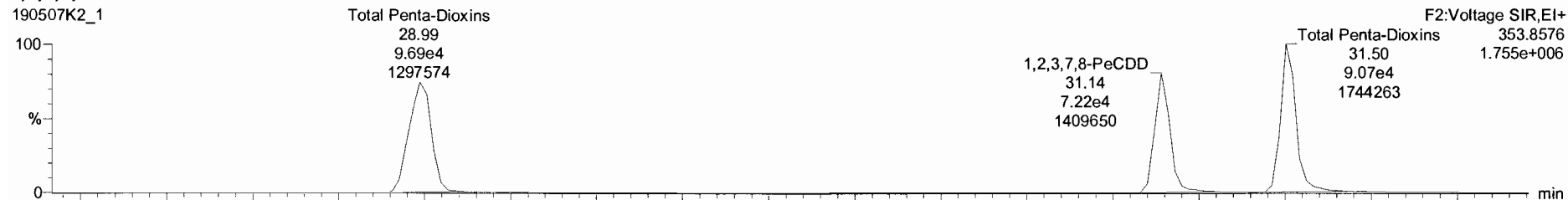


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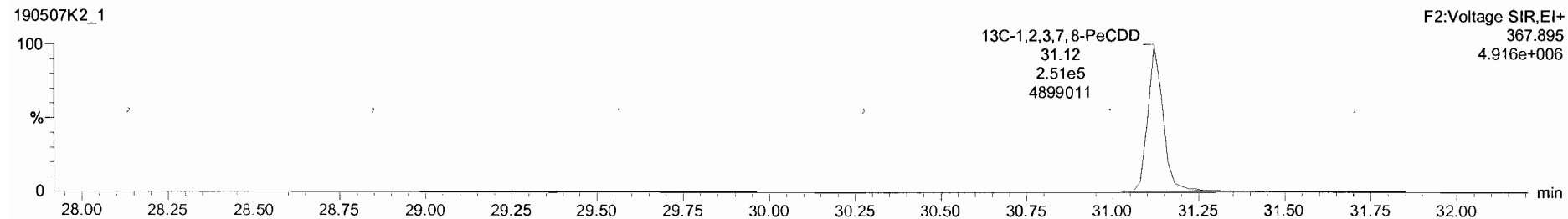
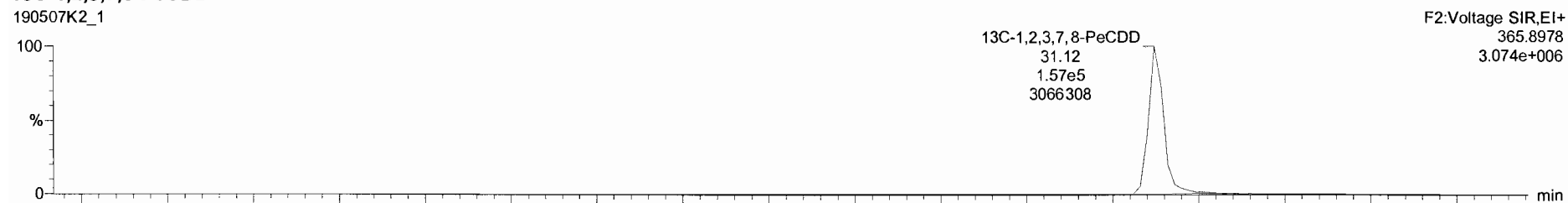
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

1,2,3,7,8-PeCDD



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

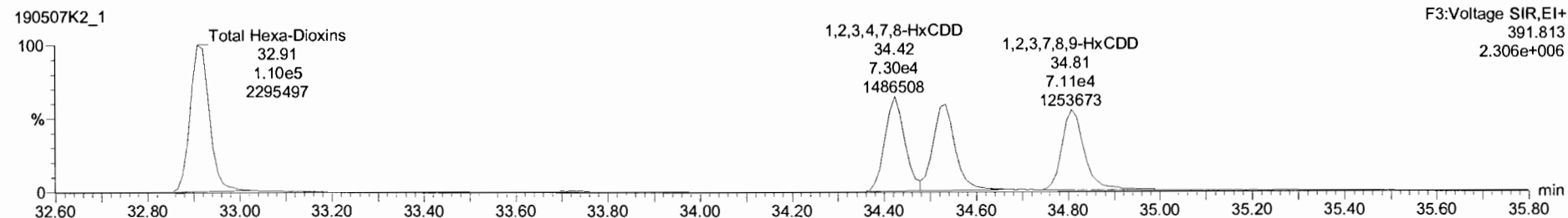
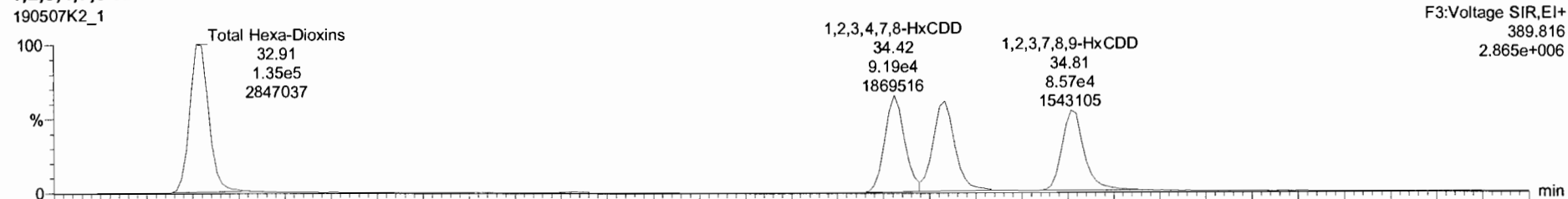


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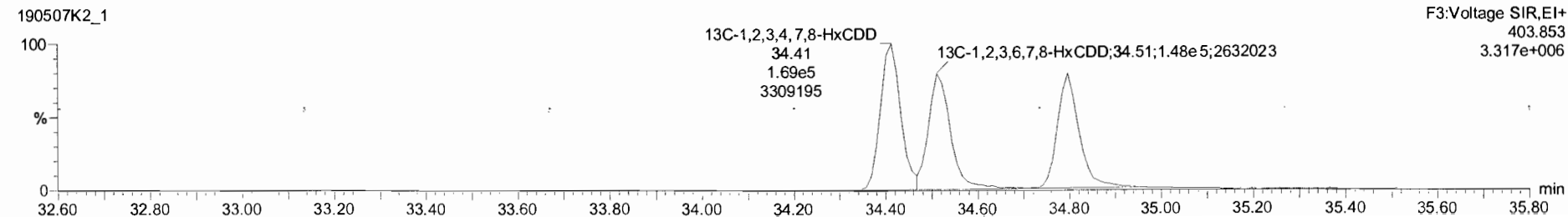
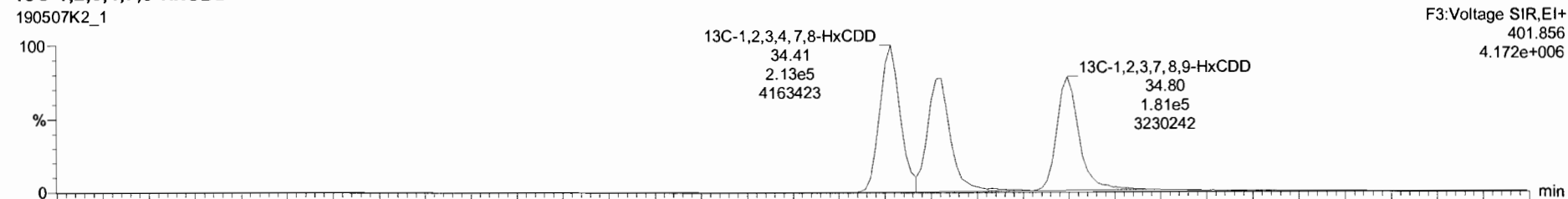
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Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

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



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



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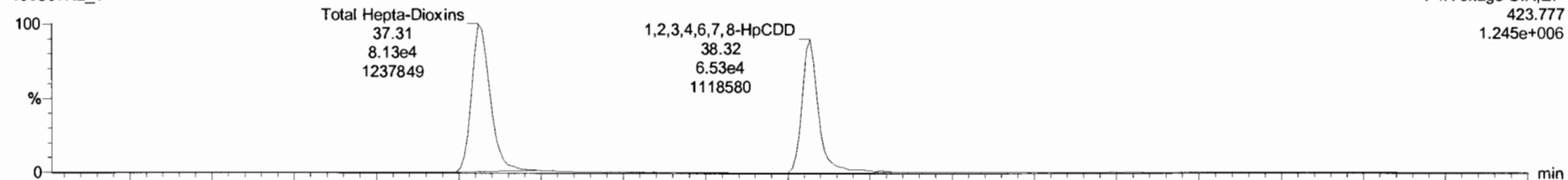
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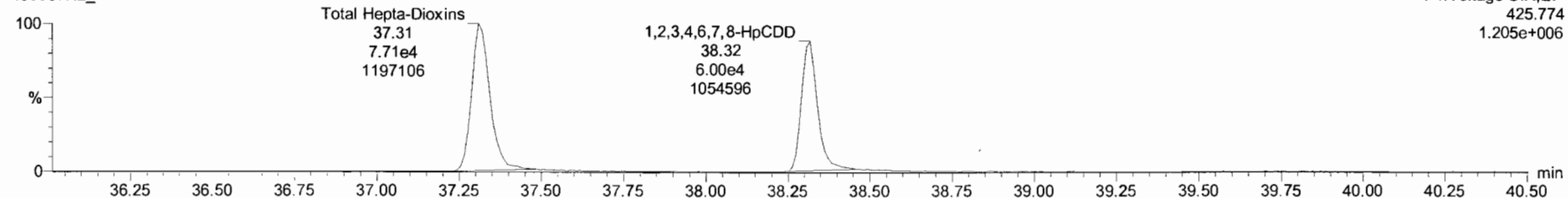
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1,2,3,4,6,7,8-HpCDD

190507K2_1

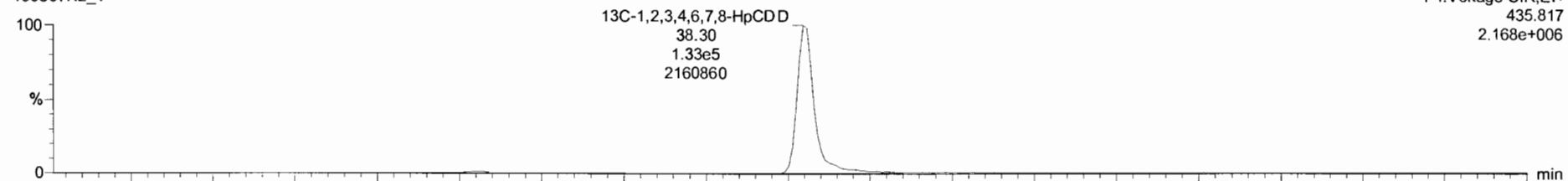


190507K2_1

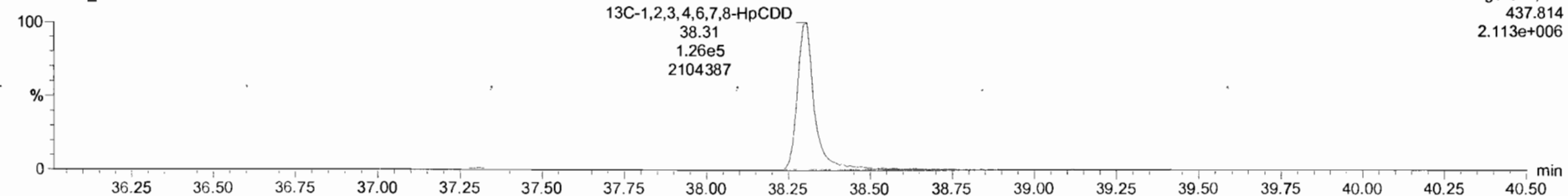


13C-1,2,3,4,6,7,8-HpCDD

190507K2_1



190507K2_1



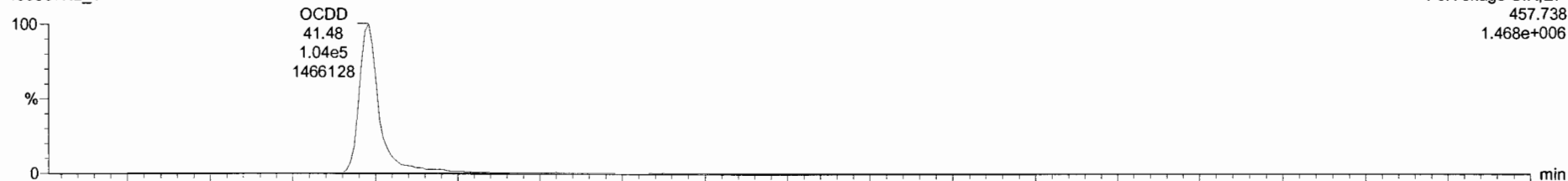
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Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time
Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

Name: 190507K2_1, Date: 07-May-2019, Time: 18:48:10, ID: ST190507K2_1 1613 CS3 18J1008, Description: 1613 CS3 18J1008

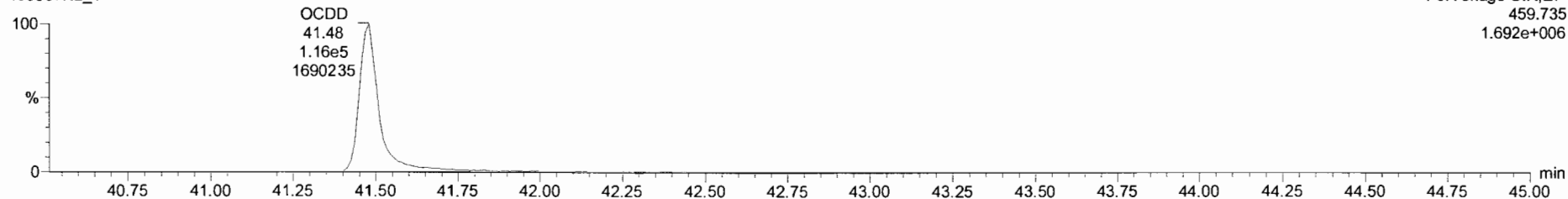
OCDD

190507K2_1



F5:Voltage SIR,EI+
457.738
1.468e+006

190507K2_1



F5:Voltage SIR,EI+
459.735
1.692e+006

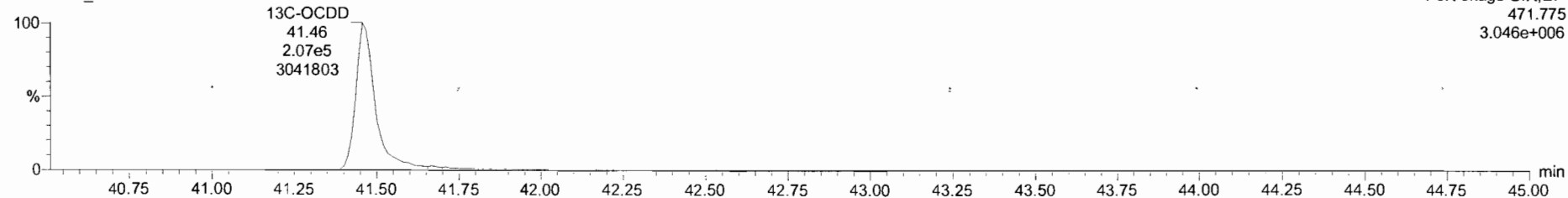
13C-OCDD

190507K2_1



F5:Voltage SIR,EI+
469.778
2.857e+006

190507K2_1



F5:Voltage SIR,EI+
471.775
3.046e+006

Dataset: Untitled

Last Altered: Wednesday, May 08, 2019 7:14:27 AM Pacific Daylight Time

Printed: Wednesday, May 08, 2019 7:19:34 AM Pacific Daylight Time

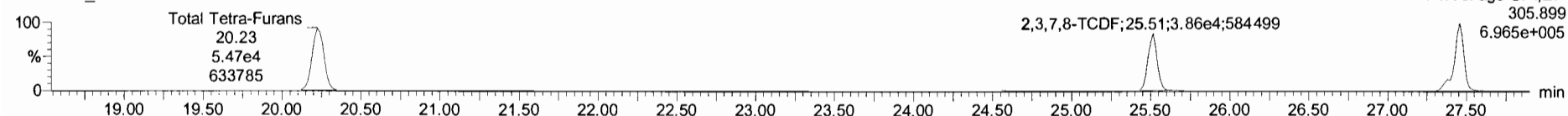
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2,3,7,8-TCDF

190507K2_1

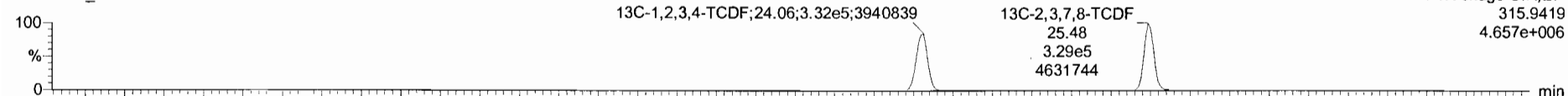


190507K2_1

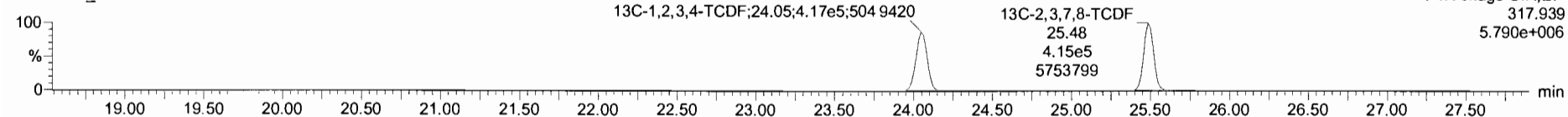


13C-2,3,7,8-TCDF

190507K2_1

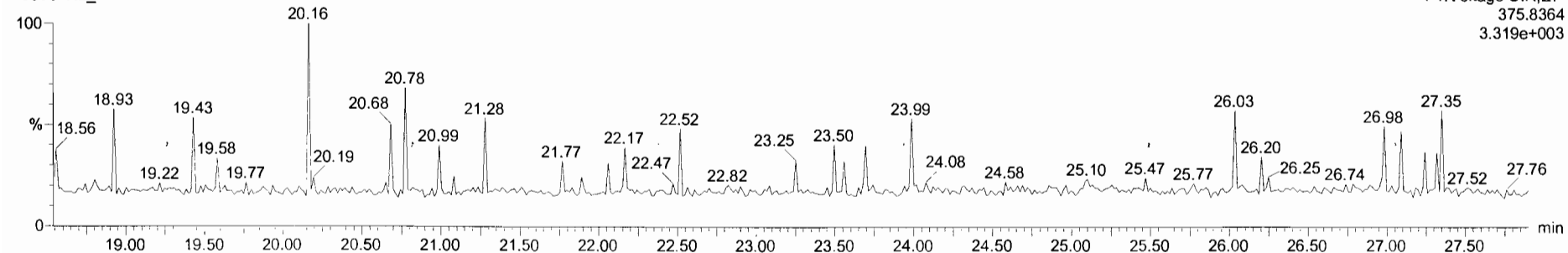


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DPE1

190507K2_1



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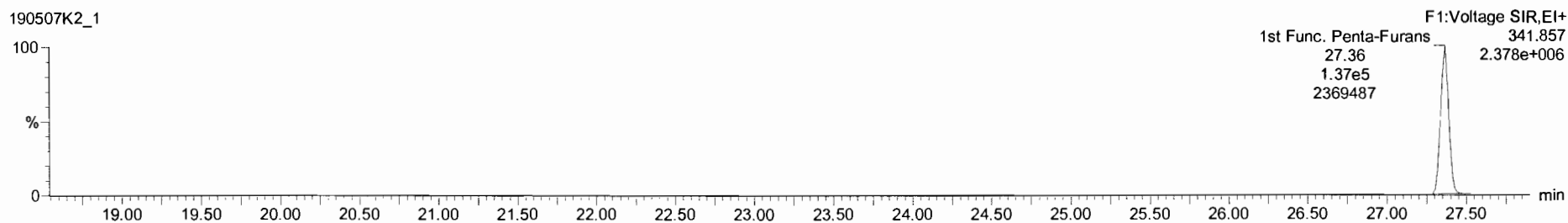
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1st Func. Penta-Furans

190507K2_1

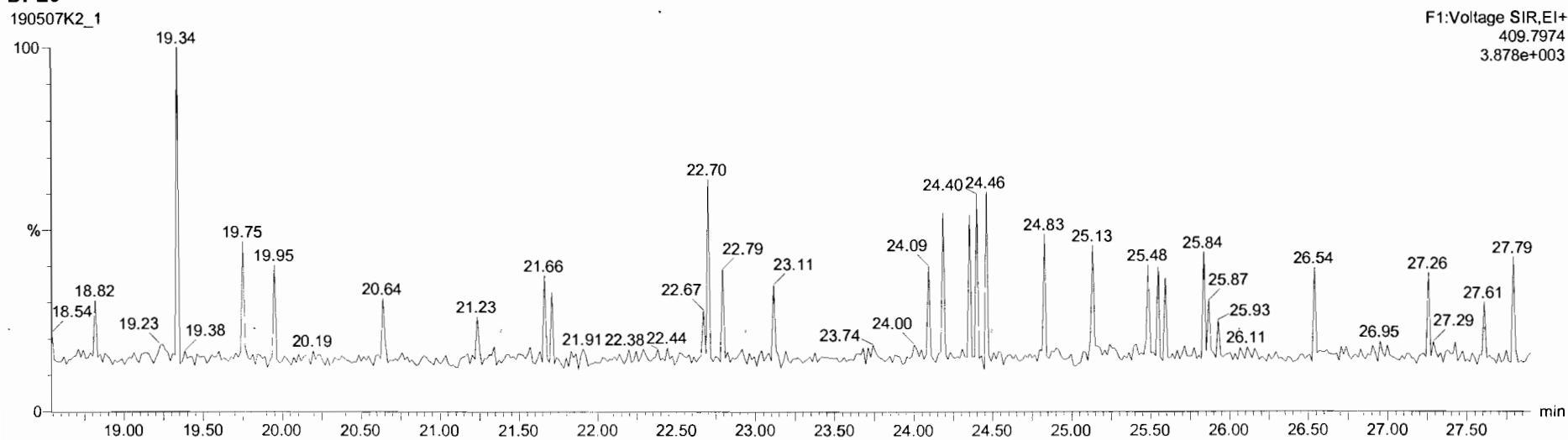


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DPE6

190507K2_1



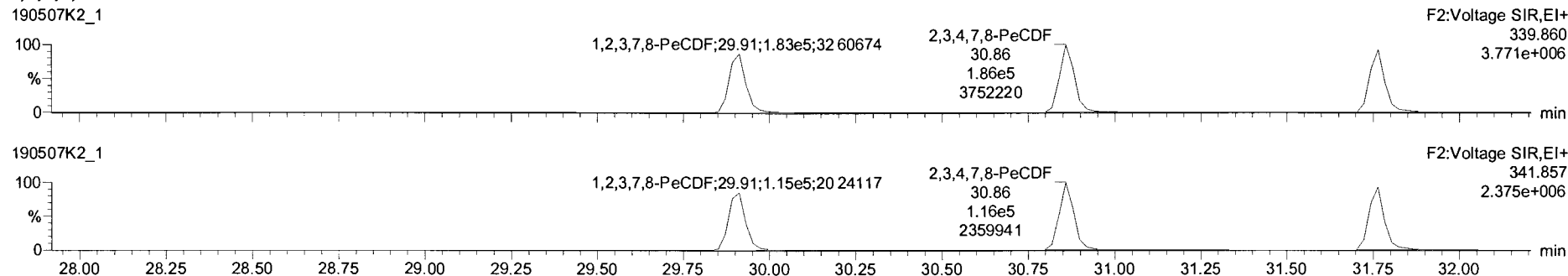
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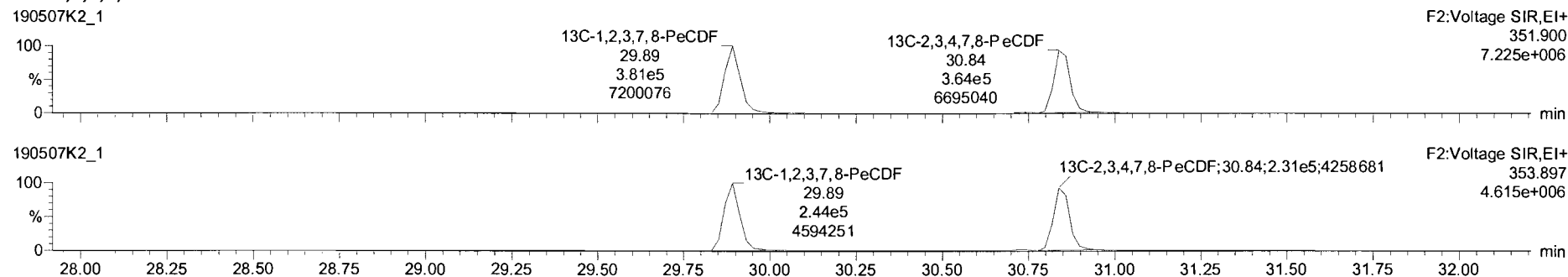
1,2,3,7,8-PeCDF

190507K2_1



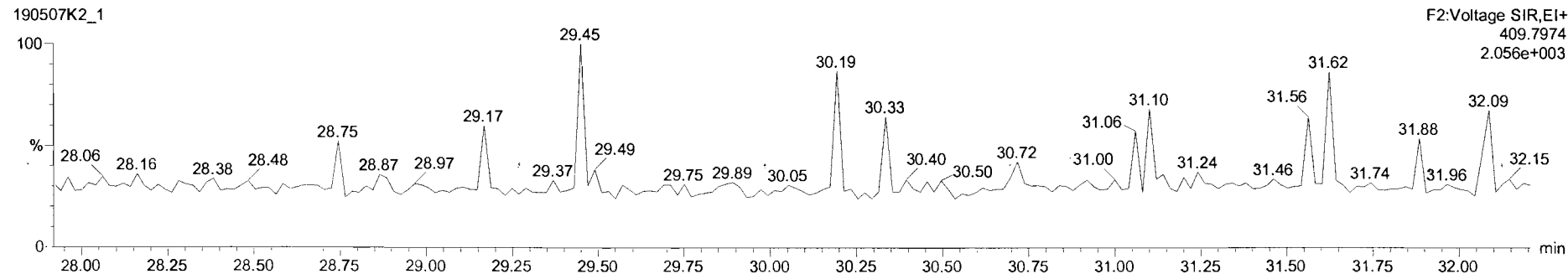
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190507K2_1



DPE2

190507K2_1

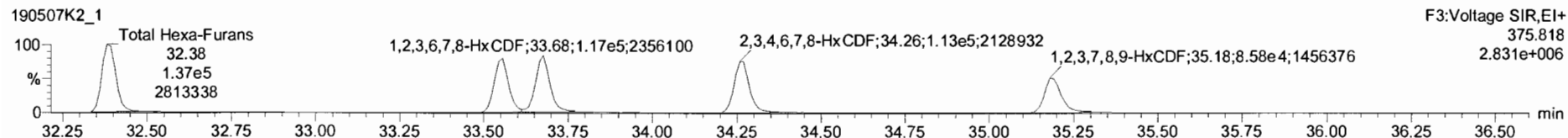
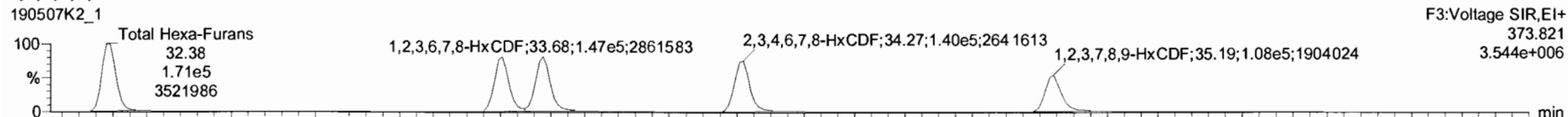


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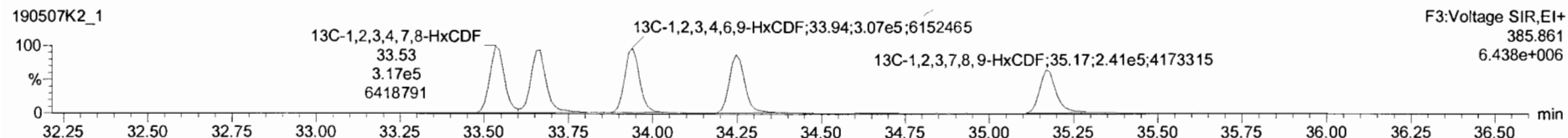
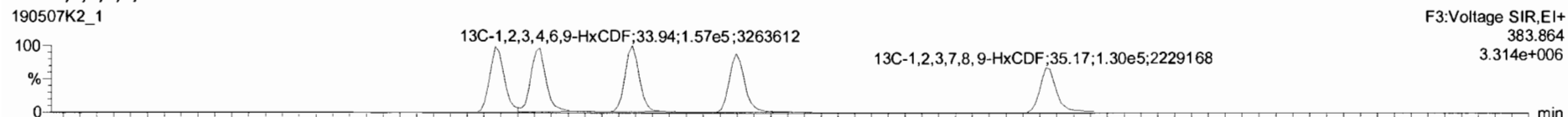
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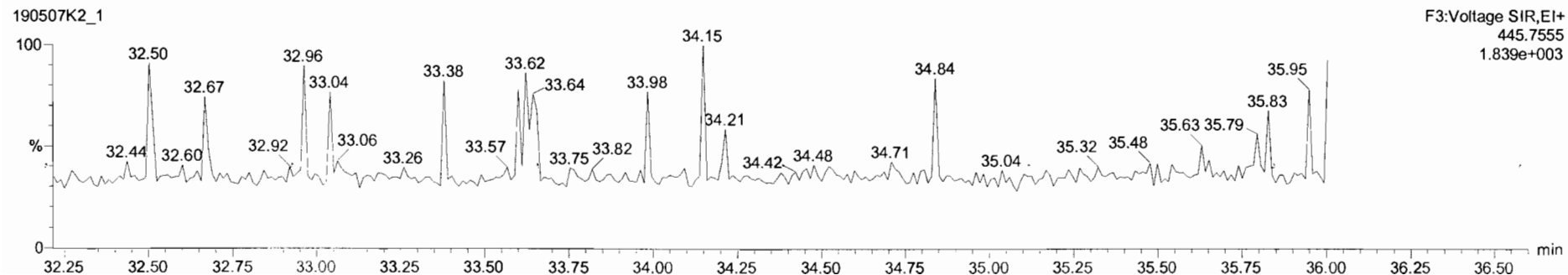
1,2,3,4,7,8-HxCDF



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



DPE3



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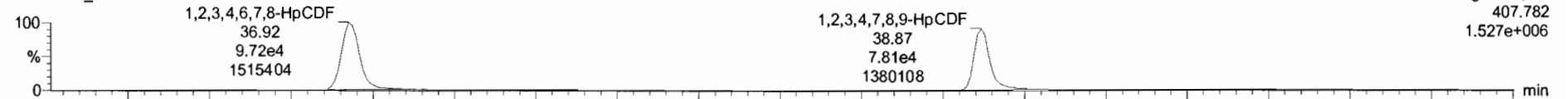
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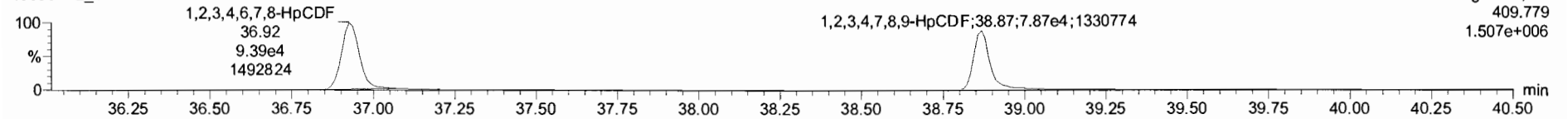
1,2,3,4,6,7,8-HpCDF

190507K2_1



F4:Voltage SIR,EI+
407.782
1.527e+006

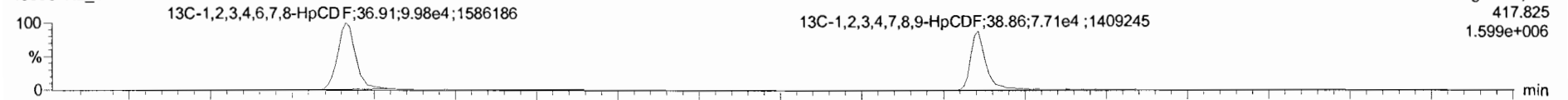
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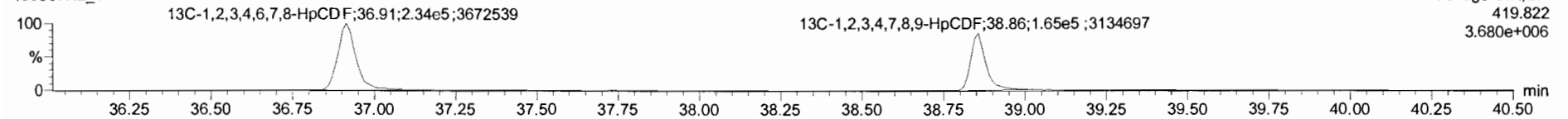
13C-1,2,3,4,6,7,8-HpCDF

190507K2_1



F4:Voltage SIR,EI+
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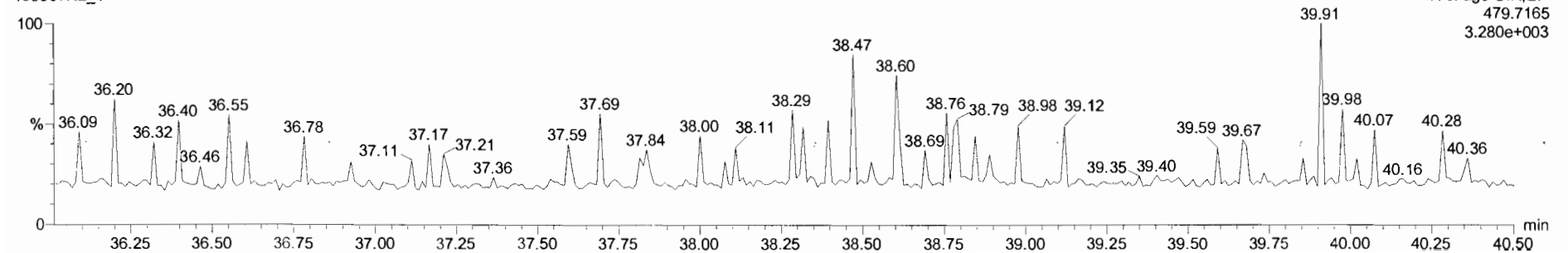
190507K2_1



F4:Voltage SIR,EI+
419.822
3.680e+006

DPE4

190507K2_1



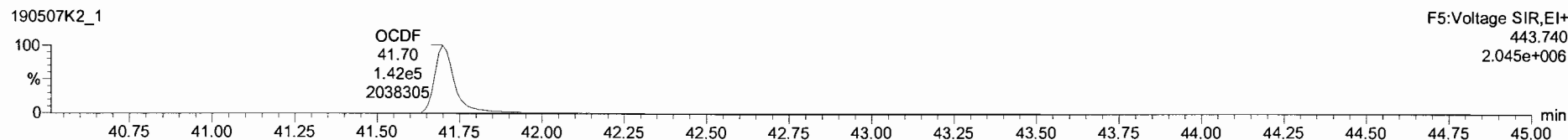
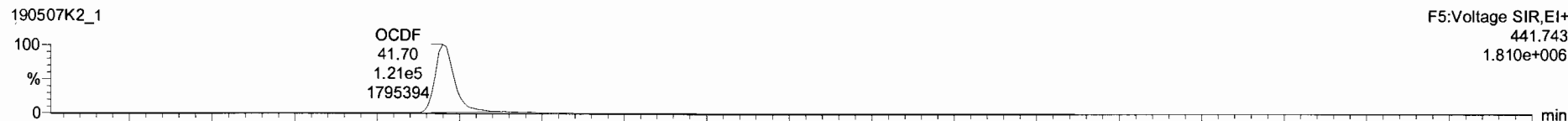
F4:Voltage SIR,EI+
479.7165
3.280e+003

Dataset: Untitled

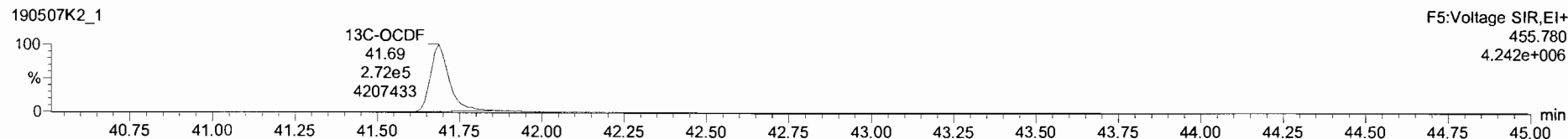
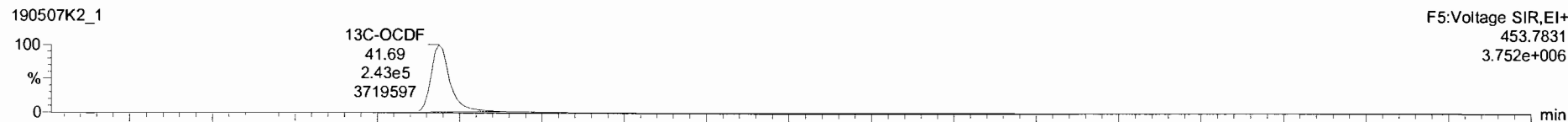
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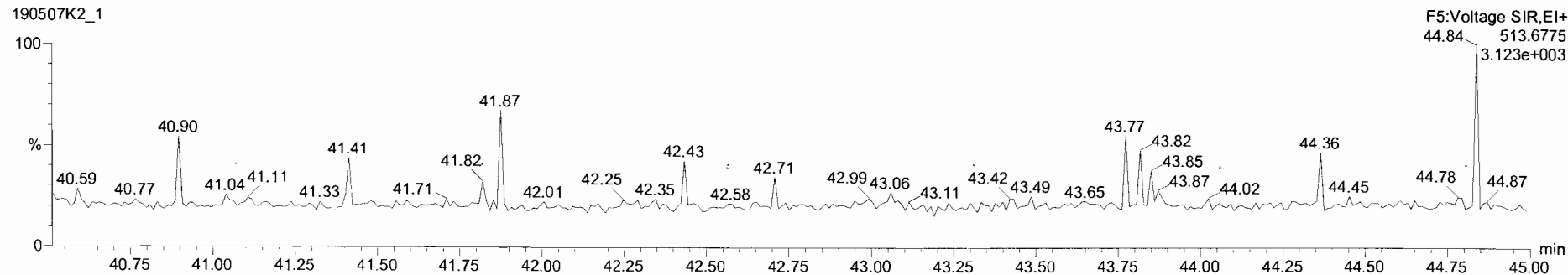
OCDF



13C-OCDF



DPE5



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