

March 27, 2020

Vista Work Order No. 1903736

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 18, 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. 1903736

Case Narrative

Sample Condition on Receipt:

Twelve sediment samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

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 each preparation batch. No analytes were detected above 1/2 the quantitation limit in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

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

TABLE OF CONTENTS

Case Narrative.....	1
Table of Contents.....	3
Sample Inventory.....	4
Analytical Results.....	5
Qualifiers.....	22
Certifications.....	23
Sample Receipt.....	26
Extraction Information.....	30
Sample Data - EPA Method 1613.....	43
Confirmation.....	536
Continuing Calibration.....	571
Initial Calibration.....	756

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1903736-01	PDI-026SC-B-00-02-191014	14-Oct-19 11:04	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-02	PDI-026SC-B-02-04-191014	14-Oct-19 11:05	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-03	PDI-026SC-B-04-06-191014	14-Oct-19 11:05	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-04	PDI-026SC-B-06-08-191014	14-Oct-19 11:06	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-05	PDI-077SC-B-00-02-191014	14-Oct-19 08:41	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-06	PDI-077SC-B-02-04-191014	14-Oct-19 08:41	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-07	PDI-077SC-B-04-06-191014	14-Oct-19 08:41	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-08	PDI-077SC-B-06-08-191014	14-Oct-19 08:41	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-09	PDI-079SC-B-00-02-191014	14-Oct-19 13:15	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-10	PDI-079SC-B-02-04-191014	14-Oct-19 13:15	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-11	PDI-079SC-B-04-06-191014	14-Oct-19 13:15	18-Oct-19 08:59	Amber Glass, 120 mL
1903736-12	PDI-079SC-B-06-08-191014	14-Oct-19 13:15	18-Oct-19 08:59	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13		Lab Sample: B0B0026-BLK1 Date Analyzed: 23-Feb-20 17:12 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0402			IS 13C-2,3,7,8-TCDD	78.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0425			13C-1,2,3,7,8-PeCDD	77.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0539			13C-1,2,3,4,7,8-HxCDD	71.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0533			13C-1,2,3,6,7,8-HxCDD	70.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0598			13C-1,2,3,7,8,9-HxCDD	72.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0942			13C-1,2,3,4,6,7,8-HpCDD	73.4	23 - 140	
OCDD	0.318			J	13C-OCDD	58.7	17 - 157	
2,3,7,8-TCDF	ND	0.0329			13C-2,3,7,8-TCDF	77.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0329			13C-1,2,3,7,8-PeCDF	70.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0308			13C-2,3,4,7,8-PeCDF	71.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0492			13C-1,2,3,4,7,8-HxCDF	73.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0470			13C-1,2,3,6,7,8-HxCDF	74.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0502			13C-2,3,4,6,7,8-HxCDF	76.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0750		13C-1,2,3,7,8,9-HxCDF	74.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0679			13C-1,2,3,4,6,7,8-HpCDF	79.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0866			13C-1,2,3,4,7,8,9-HpCDF	74.2	26 - 138	
OCDF	0.172			J	13C-OCDF	59.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	78.4	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin	0.000147		
TOTALS								
Total TCDD	ND	0.0402						
Total PeCDD	ND	0.0425						
Total HxCDD	ND	0.0598						
Total HpCDD	ND	0.0942						
Total TCDF	ND	0.0329						
Total PeCDF	ND	0.0329						
Total HxCDF	0.0482		0.123					
Total HpCDF	ND	0.0866						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid	QC Batch: B0B0026	Lab Sample: B0B0026-BS1					
Sample Size: 10.0 g	Date Extracted: 05-Feb-2020 6:13	Date Analyzed: 23-Feb-20 14:51	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.7	20.0	88.3	67 - 158	IS 13C-2,3,7,8-TCDD	85.2	20 - 175
1,2,3,7,8-PeCDD	84.4	100	84.4	70 - 142	13C-1,2,3,7,8-PeCDD	88.2	21 - 227
1,2,3,4,7,8-HxCDD	94.0	100	94.0	70 - 164	13C-1,2,3,4,7,8-HxCDD	77.5	21 - 193
1,2,3,6,7,8-HxCDD	97.3	100	97.3	76 - 134	13C-1,2,3,6,7,8-HxCDD	77.5	25 - 163
1,2,3,7,8,9-HxCDD	97.6	100	97.6	64 - 162	13C-1,2,3,7,8,9-HxCDD	75.1	21 - 193
1,2,3,4,6,7,8-HpCDD	96.4	100	96.4	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	81.1	26 - 166
OCDD	179	200	89.7	78 - 144	13C-OCDD	66.9	13 - 199
2,3,7,8-TCDF	19.7	20.0	98.5	75 - 158	13C-2,3,7,8-TCDF	80.1	22 - 152
1,2,3,7,8-PeCDF	94.2	100	94.2	80 - 134	13C-1,2,3,7,8-PeCDF	79.5	21 - 192
2,3,4,7,8-PeCDF	95.8	100	95.8	68 - 160	13C-2,3,4,7,8-PeCDF	80.2	13 - 328
1,2,3,4,7,8-HxCDF	105	100	105	72 - 134	13C-1,2,3,4,7,8-HxCDF	81.2	19 - 202
1,2,3,6,7,8-HxCDF	109	100	109	84 - 130	13C-1,2,3,6,7,8-HxCDF	82.0	21 - 159
2,3,4,6,7,8-HxCDF	107	100	107	70 - 156	13C-2,3,4,6,7,8-HxCDF	82.8	22 - 176
1,2,3,7,8,9-HxCDF	105	100	105	78 - 130	13C-1,2,3,7,8,9-HxCDF	79.6	17 - 205
1,2,3,4,6,7,8-HpCDF	109	100	109	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	80.0	21 - 158
1,2,3,4,7,8,9-HpCDF	110	100	110	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	86.5	20 - 186
OCDF	208	200	104	63 - 170	13C-OCDF	69.2	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	81.9	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0B0031 Date Extracted: 05-Feb-2020 14:26		Lab Sample: B0B0031-BLK1 Date Analyzed: 07-Mar-20 12:06 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0643			IS 13C-2,3,7,8-TCDD	81.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0567			13C-1,2,3,7,8-PeCDD	89.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0808			13C-1,2,3,4,7,8-HxCDD	75.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0826			13C-1,2,3,6,7,8-HxCDD	75.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0950			13C-1,2,3,7,8,9-HxCDD	76.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.177			13C-1,2,3,4,6,7,8-HpCDD	75.1	23 - 140	
OCDD	0.463			J	13C-OCDD	64.3	17 - 157	
2,3,7,8-TCDF	ND	0.0447			13C-2,3,7,8-TCDF	77.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0473			13C-1,2,3,7,8-PeCDF	80.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0443			13C-2,3,4,7,8-PeCDF	83.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0536			13C-1,2,3,4,7,8-HxCDF	82.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0521			13C-1,2,3,6,7,8-HxCDF	81.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0561			13C-2,3,4,6,7,8-HxCDF	82.2	28 - 136	
1,2,3,7,8,9-HxCDF	0.0884			J	13C-1,2,3,7,8,9-HxCDF	82.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.100			13C-1,2,3,4,6,7,8-HpCDF	75.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.131			13C-1,2,3,4,7,8,9-HpCDF	75.7	26 - 138	
OCDF	0.255			J	13C-OCDF	67.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	78.0	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin	0.00906		
TOTALS								
Total TCDD	ND	0.0643						
Total PeCDD	ND	0.0567						
Total HxCDD	ND	0.0950						
Total HpCDD	ND	0.177						
Total TCDF	ND	0.0447						
Total PeCDF	ND	0.0473						
Total HxCDF	0.0884		0.119					
Total HpCDF	ND	0.131						

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: B0B0031 Date Extracted: 05-Feb-2020 14:26		Lab Sample: B0B0031-BS1 Date Analyzed: 07-Mar-20 10:32 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	19.1	20.0	95.3	67 - 158	IS 13C-2,3,7,8-TCDD	81.5	20 - 175
1,2,3,7,8-PeCDD	97.6	100	97.6	70 - 142	13C-1,2,3,7,8-PeCDD	87.1	21 - 227
1,2,3,4,7,8-HxCDD	96.1	100	96.1	70 - 164	13C-1,2,3,4,7,8-HxCDD	78.0	21 - 193
1,2,3,6,7,8-HxCDD	99.4	100	99.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	77.0	25 - 163
1,2,3,7,8,9-HxCDD	101	100	101	64 - 162	13C-1,2,3,7,8,9-HxCDD	76.9	21 - 193
1,2,3,4,6,7,8-HpCDD	96.3	100	96.3	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	73.8	26 - 166
OCDD	189	200	94.7	78 - 144	13C-OCDD	66.4	13 - 199
2,3,7,8-TCDF	19.0	20.0	94.9	75 - 158	13C-2,3,7,8-TCDF	76.6	22 - 152
1,2,3,7,8-PeCDF	97.3	100	97.3	80 - 134	13C-1,2,3,7,8-PeCDF	78.5	21 - 192
2,3,4,7,8-PeCDF	97.4	100	97.4	68 - 160	13C-2,3,4,7,8-PeCDF	81.0	13 - 328
1,2,3,4,7,8-HxCDF	96.1	100	96.1	72 - 134	13C-1,2,3,4,7,8-HxCDF	81.5	19 - 202
1,2,3,6,7,8-HxCDF	98.3	100	98.3	84 - 130	13C-1,2,3,6,7,8-HxCDF	85.0	21 - 159
2,3,4,6,7,8-HxCDF	96.7	100	96.7	70 - 156	13C-2,3,4,6,7,8-HxCDF	81.7	22 - 176
1,2,3,7,8,9-HxCDF	93.4	100	93.4	78 - 130	13C-1,2,3,7,8,9-HxCDF	79.9	17 - 205
1,2,3,4,6,7,8-HpCDF	96.4	100	96.4	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	75.6	21 - 158
1,2,3,4,7,8,9-HpCDF	96.5	100	96.5	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	75.1	20 - 186
OCDF	190	200	95.0	63 - 170	13C-OCDF	71.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	82.1	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-026SC-B-00-02-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-01 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 18.3 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 11:04	% Solids: 55.3	Date Analyzed : 11-Mar-20 03:14 Column: DB-225 23-Feb-20 21:09 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.24				IS 13C-2,3,7,8-TCDD	94.1	25 - 164	
1,2,3,7,8-PeCDD	2.49				13C-1,2,3,7,8-PeCDD	92.8	25 - 181	
1,2,3,4,7,8-HxCDD	2.90				13C-1,2,3,4,7,8-HxCDD	81.3	32 - 141	
1,2,3,6,7,8-HxCDD	19.0				13C-1,2,3,6,7,8-HxCDD	80.8	28 - 130	
1,2,3,7,8,9-HxCDD	8.97				13C-1,2,3,7,8,9-HxCDD	80.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	375				13C-1,2,3,4,6,7,8-HpCDD	82.3	23 - 140	
OCDD	3570			B	13C-OCDD	66.9	17 - 157	
2,3,7,8-TCDF	46.7				13C-2,3,7,8-TCDF	92.9	24 - 169	
1,2,3,7,8-PeCDF	94.3				13C-1,2,3,7,8-PeCDF	89.5	24 - 185	
2,3,4,7,8-PeCDF	43.8				13C-2,3,4,7,8-PeCDF	88.0	21 - 178	
1,2,3,4,7,8-HxCDF	220				13C-1,2,3,4,7,8-HxCDF	89.1	26 - 152	
1,2,3,6,7,8-HxCDF	55.6				13C-1,2,3,6,7,8-HxCDF	83.8	26 - 123	
2,3,4,6,7,8-HxCDF	13.7				13C-2,3,4,6,7,8-HxCDF	82.9	28 - 136	
1,2,3,7,8,9-HxCDF	3.72				13C-1,2,3,7,8,9-HxCDF	83.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	113				13C-1,2,3,4,6,7,8-HpCDF	84.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	30.5				13C-1,2,3,4,7,8,9-HpCDF	88.4	26 - 138	
OCDF	224			B	13C-OCDF	70.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.1	35 - 197	

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

TEQMinWHO2005Dioxin 63.1

TOTALS			
Total TCDD	12.1	12.3	
Total PeCDD	19.8	20.2	
Total HxCDD	154		
Total HpCDD	812		
Total TCDF	173	178	
Total PeCDF	268	269	
Total HxCDF	419	420	B
Total HpCDF	319		

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-026SC-B-02-04-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-02 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 17.7 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 11:05	% Solids: 56.3	Date Analyzed : 11-Mar-20 03:44 Column: DB-225 24-Feb-20 23:21 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	5.09				IS 13C-2,3,7,8-TCDD	77.5	25 - 164	
1,2,3,7,8-PeCDD	5.03				13C-1,2,3,7,8-PeCDD	82.4	25 - 181	
1,2,3,4,7,8-HxCDD	3.43				13C-1,2,3,4,7,8-HxCDD	72.5	32 - 141	
1,2,3,6,7,8-HxCDD	27.4				13C-1,2,3,6,7,8-HxCDD	70.4	28 - 130	
1,2,3,7,8,9-HxCDD	11.1				13C-1,2,3,7,8,9-HxCDD	69.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	653				13C-1,2,3,4,6,7,8-HpCDD	77.5	23 - 140	
OCDD	8220			D, B	13C-OCDD	69.7	17 - 157	D
2,3,7,8-TCDF	208				13C-2,3,7,8-TCDF	73.7	24 - 169	
1,2,3,7,8-PeCDF	312				13C-1,2,3,7,8-PeCDF	76.5	24 - 185	
2,3,4,7,8-PeCDF	163				13C-2,3,4,7,8-PeCDF	76.0	21 - 178	
1,2,3,4,7,8-HxCDF	682				13C-1,2,3,4,7,8-HxCDF	77.3	26 - 152	
1,2,3,6,7,8-HxCDF	197				13C-1,2,3,6,7,8-HxCDF	72.4	26 - 123	
2,3,4,6,7,8-HxCDF	45.8				13C-2,3,4,6,7,8-HxCDF	72.6	28 - 136	
1,2,3,7,8,9-HxCDF	12.0				13C-1,2,3,7,8,9-HxCDF	74.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	443				13C-1,2,3,4,6,7,8-HpCDF	77.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	143				13C-1,2,3,4,7,8,9-HpCDF	81.0	26 - 138	
OCDF	884			B	13C-OCDF	70.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	74.9	35 - 197	

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

TEQMinWHO2005Dioxin 202

TOTALS			
Total TCDD	23.2		23.8
Total PeCDD	31.4		
Total HxCDD	195		
Total HpCDD	1380		
Total TCDF	719		721
Total PeCDF	916		
Total HxCDF	1260		B
Total HpCDF	1070		

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-026SC-B-04-06-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-03 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 12.6 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 11:05	% Solids: 80.4	Date Analyzed : 24-Feb-20 20:59 Column: ZB-5MS 30-Mar-20 16:08 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.108		IS 13C-2,3,7,8-TCDD	78.6	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0919		13C-1,2,3,7,8-PeCDD	76.0	25 - 181	
1,2,3,4,7,8-HxCDD	0.105			J	13C-1,2,3,4,7,8-HxCDD	71.0	32 - 141	
1,2,3,6,7,8-HxCDD	0.832			J	13C-1,2,3,6,7,8-HxCDD	68.0	28 - 130	
1,2,3,7,8,9-HxCDD	0.544			J	13C-1,2,3,7,8,9-HxCDD	68.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	31.7				13C-1,2,3,4,6,7,8-HpCDD	70.8	23 - 140	
OCDD	164			B	13C-OCDD	54.6	17 - 157	
2,3,7,8-TCDF	0.620				13C-2,3,7,8-TCDF	76.0	24 - 169	
1,2,3,7,8-PeCDF	1.20			J	13C-1,2,3,7,8-PeCDF	70.5	24 - 185	
2,3,4,7,8-PeCDF	0.608			J	13C-2,3,4,7,8-PeCDF	69.4	21 - 178	
1,2,3,4,7,8-HxCDF	6.79				13C-1,2,3,4,7,8-HxCDF	72.4	26 - 152	
1,2,3,6,7,8-HxCDF	1.26			J	13C-1,2,3,6,7,8-HxCDF	70.1	26 - 123	
2,3,4,6,7,8-HxCDF	0.324			J	13C-2,3,4,6,7,8-HxCDF	72.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.102			J	13C-1,2,3,7,8,9-HxCDF	72.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	3.39				13C-1,2,3,4,6,7,8-HpCDF	69.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.36			J	13C-1,2,3,4,7,8,9-HpCDF	71.0	26 - 138	
OCDF	5.53			B	13C-OCDF	50.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	75.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 1.69

TOTALS								
Total TCDD	1.69		1.80					
Total PeCDD	1.42		1.85					
Total HxCDD	11.7							
Total HpCDD	61.3							
Total TCDF	2.03		2.77					
Total PeCDF	3.96							
Total HxCDF	10.7		10.9	B				
Total HpCDF	8.16							

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-026SC-B-06-08-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-04 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 14.0 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 11:06	% Solids: 74.7	Date Analyzed: 24-Feb-20 09:07 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.118		IS 13C-2,3,7,8-TCDD	92.7	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0448		13C-1,2,3,7,8-PeCDD	95.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND		0.107		13C-1,2,3,4,7,8-HxCDD	82.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0512			13C-1,2,3,6,7,8-HxCDD	87.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0581			13C-1,2,3,7,8,9-HxCDD	85.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.49				13C-1,2,3,4,6,7,8-HpCDD	94.2	23 - 140	
OCDD	358			B	13C-OCDD	82.4	17 - 157	
2,3,7,8-TCDF	0.0560			J	13C-2,3,7,8-TCDF	90.3	24 - 169	
1,2,3,7,8-PeCDF	0.0815			J	13C-1,2,3,7,8-PeCDF	87.0	24 - 185	
2,3,4,7,8-PeCDF	0.0263			J	13C-2,3,4,7,8-PeCDF	87.5	21 - 178	
1,2,3,4,7,8-HxCDF	0.181			J	13C-1,2,3,4,7,8-HxCDF	90.3	26 - 152	
1,2,3,6,7,8-HxCDF	0.114			J	13C-1,2,3,6,7,8-HxCDF	85.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0593			13C-2,3,4,6,7,8-HxCDF	89.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0797			13C-1,2,3,7,8,9-HxCDF	90.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.260		13C-1,2,3,4,6,7,8-HpCDF	95.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0775			13C-1,2,3,4,7,8,9-HpCDF	99.6	26 - 138	
OCDF	0.539			J, B	13C-OCDF	85.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	89.2	35 - 197	

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

TEQMinWHO2005Dioxin 0.178

TOTALS								
Total TCDD	0.346		0.524					
Total PeCDD	0.0746		0.319					
Total HxCDD	1.16		1.27					
Total HpCDD	5.00							
Total TCDF	0.122		0.317	P				
Total PeCDF	0.252		0.346	P				
Total HxCDF	0.295		0.550	B				
Total HpCDF	0.221		0.480					

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-077SC-B-00-02-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-05 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 20.8 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 8:41	% Solids: 48.7	Date Analyzed : 11-Mar-20 04:14 Column: DB-225 24-Feb-20 09:54 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.07				IS 13C-2,3,7,8-TCDD	94.6	25 - 164	
1,2,3,7,8-PeCDD	1.25			J	13C-1,2,3,7,8-PeCDD	95.7	25 - 181	
1,2,3,4,7,8-HxCDD	1.03			J	13C-1,2,3,4,7,8-HxCDD	83.8	32 - 141	
1,2,3,6,7,8-HxCDD	7.80				13C-1,2,3,6,7,8-HxCDD	85.0	28 - 130	
1,2,3,7,8,9-HxCDD	3.25				13C-1,2,3,7,8,9-HxCDD	85.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	92.6				13C-1,2,3,4,6,7,8-HpCDD	95.9	23 - 140	
OCDD	745			B	13C-OCDD	82.4	17 - 157	
2,3,7,8-TCDF	45.8				13C-2,3,7,8-TCDF	93.5	24 - 169	
1,2,3,7,8-PeCDF	78.9				13C-1,2,3,7,8-PeCDF	91.6	24 - 185	
2,3,4,7,8-PeCDF	10.5				13C-2,3,4,7,8-PeCDF	88.7	21 - 178	
1,2,3,4,7,8-HxCDF	100				13C-1,2,3,4,7,8-HxCDF	90.3	26 - 152	
1,2,3,6,7,8-HxCDF	28.1				13C-1,2,3,6,7,8-HxCDF	87.2	26 - 123	
2,3,4,6,7,8-HxCDF	6.95				13C-2,3,4,6,7,8-HxCDF	89.2	28 - 136	
1,2,3,7,8,9-HxCDF	4.02				13C-1,2,3,7,8,9-HxCDF	93.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	31.6				13C-1,2,3,4,6,7,8-HpCDF	98.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	11.0				13C-1,2,3,4,7,8,9-HpCDF	106	26 - 138	
OCDF	47.5			B	13C-OCDF	86.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.0	35 - 197	

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

TEQMinWHO2005Dioxin 29.1

TOTALS			
Total TCDD	46.0		46.6
Total PeCDD	13.5		15.0
Total HxCDD	70.1		
Total HpCDD	198		
Total TCDF	165		166
Total PeCDF	213		
Total HxCDF	192		B
Total HpCDF	89.1		

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-077SC-B-02-04-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-06 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 17.8 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 8:41	% Solids: 55.8	Date Analyzed : 11-Mar-20 04:45 Column: DB-225 24-Feb-20 10:42 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.17				IS 13C-2,3,7,8-TCDD	98.6	25 - 164	
1,2,3,7,8-PeCDD	1.80			J	13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	1.51			J	13C-1,2,3,4,7,8-HxCDD	87.7	32 - 141	
1,2,3,6,7,8-HxCDD	9.70				13C-1,2,3,6,7,8-HxCDD	88.8	28 - 130	
1,2,3,7,8,9-HxCDD	4.52				13C-1,2,3,7,8,9-HxCDD	88.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	126				13C-1,2,3,4,6,7,8-HpCDD	101	23 - 140	
OCDD	971			B	13C-OCDD	89.1	17 - 157	
2,3,7,8-TCDF	48.1				13C-2,3,7,8-TCDF	94.9	24 - 169	
1,2,3,7,8-PeCDF	59.1				13C-1,2,3,7,8-PeCDF	94.9	24 - 185	
2,3,4,7,8-PeCDF	24.9				13C-2,3,4,7,8-PeCDF	93.3	21 - 178	
1,2,3,4,7,8-HxCDF	89.4				13C-1,2,3,4,7,8-HxCDF	94.0	26 - 152	
1,2,3,6,7,8-HxCDF	25.3				13C-1,2,3,6,7,8-HxCDF	90.7	26 - 123	
2,3,4,6,7,8-HxCDF	6.85				13C-2,3,4,6,7,8-HxCDF	93.3	28 - 136	
1,2,3,7,8,9-HxCDF	3.39				13C-1,2,3,7,8,9-HxCDF	94.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	42.6				13C-1,2,3,4,6,7,8-HpCDF	99.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	14.5				13C-1,2,3,4,7,8,9-HpCDF	108	26 - 138	
OCDF	76.5			B	13C-OCDF	91.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.7	35 - 197	

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

TEQMinWHO2005Dioxin 33.2

TOTALS								
Total TCDD	11.8		11.9					
Total PeCDD	15.8							
Total HxCDD	78.0							
Total HpCDD	259							
Total TCDF	179		184					
Total PeCDF	178			P				
Total HxCDF	188			B				
Total HpCDF	130							

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-077SC-B-04-06-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-07 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 18.4 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 8:41	% Solids: 55.4	Date Analyzed : 11-Mar-20 05:15 Column: DB-225 25-Feb-20 00:09 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	2.21				IS 13C-2,3,7,8-TCDD	88.0	25 - 164	
1,2,3,7,8-PeCDD	3.49				13C-1,2,3,7,8-PeCDD	95.1	25 - 181	
1,2,3,4,7,8-HxCDD	3.16				13C-1,2,3,4,7,8-HxCDD	83.6	32 - 141	
1,2,3,6,7,8-HxCDD	21.4				13C-1,2,3,6,7,8-HxCDD	87.5	28 - 130	
1,2,3,7,8,9-HxCDD	9.85				13C-1,2,3,7,8,9-HxCDD	85.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	557				13C-1,2,3,4,6,7,8-HpCDD	95.3	23 - 140	
OCDD	6540			D, B	13C-OCDD	75.0	17 - 157	D
2,3,7,8-TCDF	195				13C-2,3,7,8-TCDF	81.2	24 - 169	
1,2,3,7,8-PeCDF	312				13C-1,2,3,7,8-PeCDF	90.0	24 - 185	
2,3,4,7,8-PeCDF	167				13C-2,3,4,7,8-PeCDF	85.5	21 - 178	
1,2,3,4,7,8-HxCDF	619				13C-1,2,3,4,7,8-HxCDF	92.5	26 - 152	
1,2,3,6,7,8-HxCDF	172				13C-1,2,3,6,7,8-HxCDF	87.7	26 - 123	
2,3,4,6,7,8-HxCDF	40.7				13C-2,3,4,6,7,8-HxCDF	89.5	28 - 136	
1,2,3,7,8,9-HxCDF	7.95				13C-1,2,3,7,8,9-HxCDF	90.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	346				13C-1,2,3,4,6,7,8-HpCDF	93.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	121				13C-1,2,3,4,7,8,9-HpCDF	99.3	26 - 138	
OCDF	731			B	13C-OCDF	84.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	81.0	35 - 197	

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

TEQMinWHO2005Dioxin 184

TOTALS								
Total TCDD	15.8		16.5					
Total PeCDD	23.2		26.2					
Total HxCDD	182		184					
Total HpCDD	1180							
Total TCDF	640		684					
Total PeCDF	853			P				
Total HxCDF	1130			B				
Total HpCDF	942							

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-077SC-B-06-08-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-08 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 16.5 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 8:41	% Solids: 61.7	Date Analyzed : 11-Mar-20 05:46 Column: DB-225 24-Feb-20 12:16 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.85				IS 13C-2,3,7,8-TCDD	89.6	25 - 164	
1,2,3,7,8-PeCDD	2.37			J	13C-1,2,3,7,8-PeCDD	99.2	25 - 181	
1,2,3,4,7,8-HxCDD	1.98			J	13C-1,2,3,4,7,8-HxCDD	91.6	32 - 141	
1,2,3,6,7,8-HxCDD	12.1				13C-1,2,3,6,7,8-HxCDD	90.2	28 - 130	
1,2,3,7,8,9-HxCDD	5.01				13C-1,2,3,7,8,9-HxCDD	91.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	334				13C-1,2,3,4,6,7,8-HpCDD	102	23 - 140	
OCDD	3580			B	13C-OCDD	86.0	17 - 157	
2,3,7,8-TCDF	226				13C-2,3,7,8-TCDF	84.8	24 - 169	
1,2,3,7,8-PeCDF	426				13C-1,2,3,7,8-PeCDF	93.7	24 - 185	
2,3,4,7,8-PeCDF	156				13C-2,3,4,7,8-PeCDF	91.3	21 - 178	
1,2,3,4,7,8-HxCDF	929				13C-1,2,3,4,7,8-HxCDF	96.5	26 - 152	
1,2,3,6,7,8-HxCDF	212				13C-1,2,3,6,7,8-HxCDF	93.1	26 - 123	
2,3,4,6,7,8-HxCDF	46.3				13C-2,3,4,6,7,8-HxCDF	94.1	28 - 136	
1,2,3,7,8,9-HxCDF	43.3				13C-1,2,3,7,8,9-HxCDF	96.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	210				13C-1,2,3,4,6,7,8-HpCDF	103	28 - 143	
1,2,3,4,7,8,9-HpCDF	119				13C-1,2,3,4,7,8,9-HpCDF	112	26 - 138	
OCDF	334			B	13C-OCDF	95.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	83.5	35 - 197	

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

TEQMinWHO2005Dioxin 219

TOTALS								
Total TCDD	18.6		18.9					
Total PeCDD	23.7		24.4					
Total HxCDD	135		138					
Total HpCDD	877							
Total TCDF	754		818					
Total PeCDF	1130		1200					
Total HxCDF	1480		1550	B				
Total HpCDF	728							

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-079SC-B-00-02-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-09 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 19.0 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 13:15	% Solids: 54.9	Date Analyzed : 11-Mar-20 06:16 Column: DB-225 24-Feb-20 21:46 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.40				IS 13C-2,3,7,8-TCDD	80.5	25 - 164	
1,2,3,7,8-PeCDD	1.74			J	13C-1,2,3,7,8-PeCDD	80.9	25 - 181	
1,2,3,4,7,8-HxCDD	1.56			J	13C-1,2,3,4,7,8-HxCDD	71.8	32 - 141	
1,2,3,6,7,8-HxCDD	9.24				13C-1,2,3,6,7,8-HxCDD	72.6	28 - 130	
1,2,3,7,8,9-HxCDD	4.23				13C-1,2,3,7,8,9-HxCDD	72.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	190				13C-1,2,3,4,6,7,8-HpCDD	81.0	23 - 140	
OCDD	1850			B	13C-OCDD	71.0	17 - 157	
2,3,7,8-TCDF	120				13C-2,3,7,8-TCDF	79.4	24 - 169	
1,2,3,7,8-PeCDF	163				13C-1,2,3,7,8-PeCDF	77.9	24 - 185	
2,3,4,7,8-PeCDF	54.1				13C-2,3,4,7,8-PeCDF	75.5	21 - 178	
1,2,3,4,7,8-HxCDF	242				13C-1,2,3,4,7,8-HxCDF	77.5	26 - 152	
1,2,3,6,7,8-HxCDF	64.9				13C-1,2,3,6,7,8-HxCDF	75.2	26 - 123	
2,3,4,6,7,8-HxCDF	16.0				13C-2,3,4,6,7,8-HxCDF	76.3	28 - 136	
1,2,3,7,8,9-HxCDF	11.3				13C-1,2,3,7,8,9-HxCDF	77.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	87.4				13C-1,2,3,4,6,7,8-HpCDF	80.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	34.2				13C-1,2,3,4,7,8,9-HpCDF	85.9	26 - 138	
OCDF	189			B	13C-OCDF	72.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	77.7	35 - 197	

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

TEQMinWHO2005Dioxin	74.9
---------------------	------

TOTALS								
Total TCDD	16.7		17.2					
Total PeCDD	17.5							
Total HxCDD	91.5							
Total HpCDD	438							
Total TCDF	775		780					
Total PeCDF	514							
Total HxCDF	453			B				
Total HpCDF	268							

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-079SC-B-02-04-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-10 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 17.3 g	QC Batch: B0B0031 Date Extracted: 06-Feb-2020 14:26
Date Collected: 14-Oct-2019 13:15	% Solids: 57.7	Date Analyzed : 16-Mar-20 07:55 Column: ZB-5MS 20-Mar-20 13:28 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	2.27				IS 13C-2,3,7,8-TCDD	69.8	25 - 164	
1,2,3,7,8-PeCDD	3.94				13C-1,2,3,7,8-PeCDD	85.1	25 - 181	
1,2,3,4,7,8-HxCDD	5.37				13C-1,2,3,4,7,8-HxCDD	83.4	32 - 141	
1,2,3,6,7,8-HxCDD	28.0				13C-1,2,3,6,7,8-HxCDD	80.3	28 - 130	
1,2,3,7,8,9-HxCDD	13.0				13C-1,2,3,7,8,9-HxCDD	83.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	1250				13C-1,2,3,4,6,7,8-HpCDD	95.9	23 - 140	
OCDD	15800			D, B	13C-OCDD	61.0	17 - 157	D
2,3,7,8-TCDF	241				13C-2,3,7,8-TCDF	58.2	24 - 169	
1,2,3,7,8-PeCDF	429				13C-1,2,3,7,8-PeCDF	85.3	24 - 185	
2,3,4,7,8-PeCDF	33.5				13C-2,3,4,7,8-PeCDF	81.9	21 - 178	
1,2,3,4,7,8-HxCDF	768				13C-1,2,3,4,7,8-HxCDF	82.2	26 - 152	
1,2,3,6,7,8-HxCDF	212				13C-1,2,3,6,7,8-HxCDF	77.7	26 - 123	
2,3,4,6,7,8-HxCDF	49.3				13C-2,3,4,6,7,8-HxCDF	74.9	28 - 136	
1,2,3,7,8,9-HxCDF	63.4			B	13C-1,2,3,7,8,9-HxCDF	76.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	456				13C-1,2,3,4,6,7,8-HpCDF	78.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	147				13C-1,2,3,4,7,8,9-HpCDF	81.4	26 - 138	
OCDF	1020			B	13C-OCDF	68.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	69.2	35 - 197	

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

TEQMinWHO2005Dioxin 191

TOTALS								
Total TCDD	15.0		22.0					
Total PeCDD	37.3							
Total HxCDD	334							
Total HpCDD	3350							
Total TCDF	1380			P				
Total PeCDF	1320		1340					
Total HxCDF	1430			B				
Total HpCDF	1290							

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-079SC-B-04-06-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-11 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 17.2 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 13:15	% Solids: 57.6	Date Analyzed : 11-Mar-20 06:46 Column: DB-225 25-Feb-20 00:56 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.32				IS 13C-2,3,7,8-TCDD	61.7	25 - 164	
1,2,3,7,8-PeCDD	1.95			J	13C-1,2,3,7,8-PeCDD	66.9	25 - 181	
1,2,3,4,7,8-HxCDD	11.1				13C-1,2,3,4,7,8-HxCDD	58.5	32 - 141	
1,2,3,6,7,8-HxCDD	55.7				13C-1,2,3,6,7,8-HxCDD	57.8	28 - 130	
1,2,3,7,8,9-HxCDD	27.0				13C-1,2,3,7,8,9-HxCDD	59.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	2840				13C-1,2,3,4,6,7,8-HpCDD	68.1	23 - 140	
OCDD	11900			D, B	13C-OCDD	55.6	17 - 157	D
2,3,7,8-TCDF	129				13C-2,3,7,8-TCDF	62.6	24 - 169	
1,2,3,7,8-PeCDF	195				13C-1,2,3,7,8-PeCDF	61.7	24 - 185	
2,3,4,7,8-PeCDF	118				13C-2,3,4,7,8-PeCDF	61.9	21 - 178	
1,2,3,4,7,8-HxCDF	270				13C-1,2,3,4,7,8-HxCDF	62.8	26 - 152	
1,2,3,6,7,8-HxCDF	75.6				13C-1,2,3,6,7,8-HxCDF	57.5	26 - 123	
2,3,4,6,7,8-HxCDF	24.4				13C-2,3,4,6,7,8-HxCDF	60.5	28 - 136	
1,2,3,7,8,9-HxCDF	9.73				13C-1,2,3,7,8,9-HxCDF	61.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	164				13C-1,2,3,4,6,7,8-HpCDF	65.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	52.6				13C-1,2,3,4,7,8,9-HpCDF	66.0	26 - 138	
OCDF	369			B	13C-OCDF	50.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	59.3	35 - 197	

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

TEQMinWHO2005Dioxin 139

TOTALS								
Total TCDD	23.6		23.9					
Total PeCDD	51.7		51.8					
Total HxCDD	1050							
Total HpCDD	6040							
Total TCDF	423		439					
Total PeCDF	622							
Total HxCDF	617			B				
Total HpCDF	620							

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-079SC-B-06-08-191014 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903736-12 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 16.9 g	QC Batch: B0B0026 Date Extracted: 05-Feb-2020 6:13
Date Collected: 14-Oct-2019 13:15	% Solids: 61.1	Date Analyzed : 11-Mar-20 07:17 Column: DB-225 24-Feb-20 14:39 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.206		IS 13C-2,3,7,8-TCDD	69.1	25 - 164	
1,2,3,7,8-PeCDD	ND		0.211		13C-1,2,3,7,8-PeCDD	70.6	25 - 181	
1,2,3,4,7,8-HxCDD	0.754			J	13C-1,2,3,4,7,8-HxCDD	66.4	32 - 141	
1,2,3,6,7,8-HxCDD	6.49				13C-1,2,3,6,7,8-HxCDD	64.9	28 - 130	
1,2,3,7,8,9-HxCDD	2.60				13C-1,2,3,7,8,9-HxCDD	65.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	458				13C-1,2,3,4,6,7,8-HpCDD	72.8	23 - 140	
OCDD	2530			B	13C-OCDD	67.2	17 - 157	
2,3,7,8-TCDF	13.3				13C-2,3,7,8-TCDF	69.0	24 - 169	
1,2,3,7,8-PeCDF	18.4				13C-1,2,3,7,8-PeCDF	65.6	24 - 185	
2,3,4,7,8-PeCDF	7.07				13C-2,3,4,7,8-PeCDF	67.2	21 - 178	
1,2,3,4,7,8-HxCDF	24.1				13C-1,2,3,4,7,8-HxCDF	66.4	26 - 152	
1,2,3,6,7,8-HxCDF	6.78				13C-1,2,3,6,7,8-HxCDF	64.1	26 - 123	
2,3,4,6,7,8-HxCDF	2.30			J	13C-2,3,4,6,7,8-HxCDF	67.7	28 - 136	
1,2,3,7,8,9-HxCDF	2.57				13C-1,2,3,7,8,9-HxCDF	69.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	31.5				13C-1,2,3,4,6,7,8-HpCDF	72.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	5.81				13C-1,2,3,4,7,8,9-HpCDF	74.9	26 - 138	
OCDF	132			B	13C-OCDF	58.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	74.5	35 - 197	

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

TEQMinWHO2005Dioxin	14.3
---------------------	------

TOTALS								
Total TCDD	2.71		3.28					
Total PeCDD	3.73		4.07					
Total HxCDD	69.8							
Total HpCDD	849							
Total TCDF	99.9		101					
Total PeCDF	63.4		67.8					
Total HxCDF	74.4			B				
Total HpCDF	195							

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

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

DATA QUALIFIERS & ABBREVIATIONS

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

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

Vista Analytical Laboratory Certifications

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

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

NELAP Accredited Test Methods

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

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

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

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

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

Project: Gasco PDI
Client: NW Natural

1903736 3.6°C

COC ID: VIST1-20191014-145320
Sample Custodian: CO, SN, BJ, DL
Lab: VISTA - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
001	PDI-026SC-B-00-02-191014	N	SE	10/14/2019	11:04	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
002	PDI-026SC-B-02-04-191014	N	SE	10/14/2019	11:05	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
003	PDI-026SC-B-04-06-191014	N	SE	10/14/2019	11:05	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
004	PDI-026SC-B-06-08-191014	N	SE	10/14/2019	11:06	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
005	PDI-077SC-B-00-02-191014	N	SE	10/14/2019	8:41	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
006	PDI-077SC-B-02-04-191014	N	SE	10/14/2019	8:41	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
007	PDI-077SC-B-04-06-191014	N	SE	10/14/2019	8:41	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
008	PDI-077SC-B-06-08-191014	N	SE	10/14/2019	8:41	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
009	PDI-079SC-B-00-02-191014	N	SE	10/14/2019	13:15	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
010	PDI-079SC-B-02-04-191014	N	SE	10/14/2019	13:15	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
011	PDI-079SC-B-04-06-191014	N	SE	10/14/2019	13:15	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Print Name: COREIRO	Print Name: Ashley Mason	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: Vista Analytical	Company:	Company:	Company:	Company:
Date/Time: 10/17/19 1355	Date/Time: 10/18/19 0859	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

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

Project: Gasco PDI
Client: NW Natural

1903736

COC ID: VIST1-20191014-145320
Sample Custodian: CO, SN, DL, BJ
Lab: VISTA - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
011	PDI-079SC-B-04-06-191014	N	SE	10/14/2019	13:15	1	<input type="checkbox"/>				
								Archive (VISTA)	ARCHIVE	-1	-10°C
012	PDI-079SC-B-06-08-191014	N	SE	10/14/2019	13:15	1	<input type="checkbox"/>				
								Archive (VISTA)	ARCHIVE	-1	-10°C

Comment:

Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature
Print Name P. O'NEIL	Print Name Ashley Mason	Print Name	Print Name	Print Name	Print Name
Company AQ	Company VAL	Company	Company	Company	Company
Date/Time 10/17/19 1355	Date/Time 10/18/19 0859	Date/Time	Date/Time	Date/Time	Date/Time

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903736 TAT std

Samples Arrival:	Date/Time 10/18/19 0859	Initials: WWS	Location: WR-2				
		Shelf/Rack: N/A					
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac	<input type="radio"/> GSO	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice		<input type="radio"/> Dry Ice		<input type="radio"/> None	
Temp °C: 3.6 (uncorrected)	Probe used: Y / <input checked="" type="radio"/> N			Thermometer ID: IR-3			
Temp °C: 3.6 (corrected)							

	YES	NO	NA		
Shipping Container(s) Intact?	✓				
Shipping Custody Seals Intact?	✓				
Airbill <u>1 of 2</u> Trk # <u>7767 5105 6110</u>	✓				
Shipping Documentation Present?	✓				
Shipping Container	Vista	<input checked="" type="radio"/> Client	Retain	<input checked="" type="radio"/> Return	Dispose
Chain of Custody / Sample Documentation Present?		✓	✓		
Chain of Custody / Sample Documentation Complete?		✓	✓		
Holding Time Acceptable?	✓				

Logged In:	Date/Time 10/21/19 1202	Initials: WWS	Location: WF-2	
		Shelf/Rack: D-1		
COC Anomaly/Sample Acceptance Form completed?			✓	✓

Comments:

CoC/Label Reconciliation Report WO# 1903736

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
1903736-01	A PDI-026SC-B-00-02-191014	<input checked="" type="checkbox"/>		001	14-Oct-19 11:04	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-02	A PDI-026SC-B-02-04-191014	<input checked="" type="checkbox"/>		002	14-Oct-19 11:05	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-03	A PDI-026SC-B-04-06-191014	<input checked="" type="checkbox"/>		003	14-Oct-19 11:05	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-04	A PDI-026SC-B-06-08-191014	<input checked="" type="checkbox"/>		004	14-Oct-19 11:06	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-05	A PDI-077SC-B-00-02-191014	<input checked="" type="checkbox"/>		005	14-Oct-19 08:41	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-06	A PDI-077SC-B-02-04-191014	<input checked="" type="checkbox"/>		006	14-Oct-19 08:41	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-07	A PDI-077SC-B-04-06-191014	<input checked="" type="checkbox"/>		007	14-Oct-19 08:41	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-08	A PDI-077SC-B-06-08-191014	<input checked="" type="checkbox"/>		008	14-Oct-19 08:41	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-09	A PDI-079SC-B-00-02-191014	<input type="checkbox"/>		009	14-Oct-19 13:15	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-10	A PDI-079SC-B-02-04-191014	<input checked="" type="checkbox"/>		010	14-Oct-19 13:15	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-11	A PDI-079SC-B-04-06-191014	<input checked="" type="checkbox"/>		011	14-Oct-19 13:15	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903736-12	A PDI-079SC-B-06-08-191014	<input checked="" type="checkbox"/>		012	14-Oct-19 13:15	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	

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

Comments:

cooler #1

Verified by/Date: SC 10/22/19

EXTRACTION INFORMATION

PREPARATION BENCH SHEET

Matrix: Solid

B0A0074

Chemist: BUS

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 13-Jan-20 06:10

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisol CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0A0074-BLK1	UA	(10.00)	20 01/13/20	20 01/14/20	20 01/14/20	20 01/14/20	20 01/14/20	20 01/14/20	20 01/14/20
<input type="checkbox"/>	B0A0074-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903736-01	18.08	18.14	↓	↓	NA	↓	↓	↓	↓
<input type="checkbox"/>	1903736-02	17.76	17.80	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903736-03	12.44	12.45	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903736-04	13.39	13.41	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903736-05	20.52	20.58	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903736-06	17.93	17.94	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903736-07	18.06	18.08	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903736-08	16.20	16.28	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903736-09	18.21	18.24	↓	↓	20 01/14/20	↓	↓	↓	↓
<input type="checkbox"/>	1903736-10	17.32	17.41	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1903736-11	17.35	17.36	↓	↓	NA	↓	↓	↓	↓
<input type="checkbox"/>	1903736-12	16.37	16.43	↓	↓	↓	↓	↓	↓	↓

(A) High Level micro soxhlet bodies used for extraction. BUS 01/13/20

(B) High Level Small stopcocks used on SDS for extraction. BUS 01/13/20

(C) 01/14/20

IS Name <u>V2</u>	NS Name <u>V5</u>	CRS Name <u>V5</u>	RS Name <u>V5</u>	Cycle Time	APP: SEFUN <u>SOX</u> <u>SDS</u>	Check Out: Chemist/Date: <u>BUS 01/13/20</u>
PCDD/F <u>19C2301, 10µL</u>	PCDD/F <u>18F1913, 10µL</u>	PCDD/F <u>19I1602, 10µL</u>	PCDD/F <u>19I1603, 10µL</u>	Start Date/Time <u>01/13/20 1330</u>	SOLV: <u>Tol</u>	Check In: Chemist/Date: <u>BUS 01/13/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>01/14/20 540</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>20µL</u>	<u>CM</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

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903736-01	18.14 ✓	55.29866	10.0312	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-02	17.8 ✓	56.32184	10.0253	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-03	12.45 ✓	80.40405	10.0103	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-04	13.41 ✓	74.68354	10.0151	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-05	20.58 ✓	48.7234	10.0273	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-06	17.94 ✓	55.78778	10.0083	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-07	18.08 ✓	55.35714	10.0086	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-08	16.28 ✓	61.74089	10.0514	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-09	18.24 ✓	54.92701	10.0187	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-10	17.41 ✓	57.73809	10.0522	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-11	17.36 ✓	57.62082	10.0030	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
1903736-12	16.43 ✓	61.08374	10.0361	20	13-Jan-20 06:10	BNB			Sediment	1613 Full List
B0A0074-BLK1	10			20	13-Jan-20 06:10	BNB				QC
B0A0074-BS1	10			20	13-Jan-20 06:10	BNB	18F1913	10		QC

All bolded data on report verified against written benchsheet by (initial/date) ao 01/14/20

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9L0070

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

Inst H2MS-g
 Date/Time IN: 12/23/19 1500
 Date/Time OUT: 12/26/19 1333

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	zc 12/23/19				Sample Homogenized*
			Pan Tare Wt. (gms)	RR 12/26/19					Visual Inspection	pH Before	pH After	Acid Added	
	1903736-01	Sample	1.28	zc 12/23/19	6.47	4.15		mud					Y
	1903736-02	Sample	1.29		6.51	4.23		mud					Y
	1903736-03	Sample	1.29		6.24	5.27		sand					
	1903736-04	Sample	1.29		6.03	4.83		↓					
	1903736-05	Sample	1.29		5.99	3.58		mud					
	1903736-06	Sample	1.27		7.49	4.74							
	1903736-07	Sample	1.27		7.99	4.99							
	1903736-08	Sample	1.27		6.21	4.32							
	1903736-09	Sample	1.28		6.76	4.29							
	1903736-10	Sample	1.28		6.32	4.19							
	1903736-11	Sample	1.27		6.65	4.37							
	1903736-12	Sample	1.28		5.39	3.76							

*Sample homogenized in sample container unless otherwise noted.



Process Sheet
 Workorder: **1903736**

RX @ 02/04/20

Prep Expiration: 2020-10-13
 Client: Anchor QEA, LLC

Workorder Due: 03-Jan-20 00:00

TAT: 77

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

Prep Batch: B0B0026

Prep Data Entered: AM 02/10/20
 Date and Initials

Initial Sequence: S0B0053

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903736-01	<input checked="" type="checkbox"/>	PDI-026SC-B-00-02-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-02	<input checked="" type="checkbox"/>	PDI-026SC-B-02-04-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-03	<input checked="" type="checkbox"/>	PDI-026SC-B-04-06-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-04	<input checked="" type="checkbox"/>	PDI-026SC-B-06-08-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-05	<input checked="" type="checkbox"/>	PDI-077SC-B-00-02-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-06	<input checked="" type="checkbox"/>	PDI-077SC-B-02-04-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-07	<input checked="" type="checkbox"/>	PDI-077SC-B-04-06-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-08	<input checked="" type="checkbox"/>	PDI-077SC-B-06-08-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-09	<input checked="" type="checkbox"/>	PDI-079SC-B-00-02-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-10	<input checked="" type="checkbox"/>	PDI-079SC-B-02-04-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-11	<input checked="" type="checkbox"/>	PDI-079SC-B-04-06-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-12	<input checked="" type="checkbox"/>	PDI-079SC-B-06-08-191014	18-Oct-19 08:59	WR-2 G-5	

WO Comments: ~~Root 1g extraction (dry weight)~~
Dioxin - 10g (dry weight)
~~ROB 5g extraction (dry weight)~~

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

Prep Check Out: AZ 02/05/20
 Prep Check In: EM 02/05/20

Prep Reconciled Initials/Date: AZ 02/05/20
 Spike Reconciled Initials/Date: EM 02/05/20
 VialBoxID: K0BE

PREPARATION BENCH SHEET

Matrix: Solid

B0B0026

Chemist: AZ

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 05-Feb-20 06:13

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"/>	B0B0026-BLK1	NA	(10.00)	AO AZ 02/05/20	AO AZ 02/06/20	AZ 02/06/20	AZ 02/06/20	AO 02/06/20	AZ 02/07/20	AZ 02/07/20
<input type="checkbox"/>	B0B0026-BS1	NA	(10.00)							
<input type="checkbox"/>	1903736-01RE1	18.08	18.32				orange			
<input type="checkbox"/>	1903736-02RE1	17.76	17.73			AZ 02/06/20	yellow			
<input type="checkbox"/>	1903736-03RE1	12.44	12.62			AZ 02/06/20	yellow			
<input type="checkbox"/>	1903736-04RE1	13.39	13.96				white			
<input type="checkbox"/>	1903736-05RE1	20.52	20.76				light yellow			
<input type="checkbox"/>	1903736-06RE1	17.93	17.77				yellow			
<input type="checkbox"/>	1903736-07RE1	18.06	18.36				orange			
<input type="checkbox"/>	1903736-08RE1	16.20	16.52				orange			
<input type="checkbox"/>	1903736-09RE1	18.21	18.98			AZ 02/06/20	yellow			
<input type="checkbox"/>	1903736-10RE1	17.82	17.85							
<input type="checkbox"/>	1903736-11RE1	17.35	17.21		AO AZ 02/06/20	AZ 02/06/20	yellow	AO 02/06/20	AZ 02/07/20	AZ 02/07/20
<input type="checkbox"/>	1903736-12RE1	16.37	16.92				orange			
<input type="checkbox"/>	1903740-02RE1	15.48	15.56			AZ 02/06/20	yellow			

IS Name <u>V6</u>	NS Name <u>V3</u>	CRS Name <u>V4</u>	RS Name <u>V4</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>AZ 02/05/20</u>
PCDD/F <u>19L2301, 10mL</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>19F1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time: <u>1422 02/05/20</u>	SOLV: <u>T01</u>	Check In: Chemist/Date: <u>ELL 02/05/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time: <u>0622 02/06/20</u>	Other: <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH	PAH	PAH	PAH		Final Volume(s): <u>20mL</u>	
					<u>C17</u>	


Comments:

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

(A) Sample turned off at 0534. Went dry and burnt inside of round bottom. BUS 02/06/20
 (B) Built all Soxhlets AZ 02/05/20
 (C) Re-extracting on new batch 02/06/20
 (D) Rinsed RB during AP to remove port AZ 02/06/20
 (E) changed RB during AP for a clean one

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903736-01RE1	18.32	55.29866	10.1307	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-02RE1	17.73	56.32184	9.9859	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-03RE1	12.62	80.40405	10.1470	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-04RE1	13.96	74.68354	10.4258	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-05RE1	20.76	48.7234	10.1150	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-06RE1	17.77	55.78778	9.9135	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-07RE1	18.36	55.35714	10.1636	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-08RE1	16.52	61.74089	10.1996	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-09RE1	18.98	54.92701	10.4251	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-10RE1	17.83	57.73809	10.2947	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-11RE1	17.21	57.62082	9.9165	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903736-12RE1	16.92	61.08374	10.3354	20	05-Feb-20 06:13	AZK			Sediment	1613 Full List
1903740-02RE1	15.56	64.61826	10.0546	20	07-Jan-20 10:19	AZK			Sediment	1613 Full List
B0B0026-BLK1	10			20	05-Feb-20 06:13	AZK				QC
B0B0026-BS1	10			20	05-Feb-20 06:13	AZK	18F1913 ✓	10 ✓		QC

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

 02/10/20



Process Sheet
 Workorder: **1903736**

RX

② 02/06/20

Prep Expiration: 2020-10-13
 Client: Anchor QEA, LLC

Workorder Due: 03-Jan-20 00:00

TAT: 77

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

Prep Batch: BOB0031

Prep Data Entered: AO 02/11/20
Date and Initials

Initial Sequence: SOB0066

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903736-01	<input type="checkbox"/>	PDI-026SC-B-00-02-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-02	<input type="checkbox"/>	PDI-026SC-B-02-04-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-03	<input type="checkbox"/>	PDI-026SC-B-04-06-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-04	<input type="checkbox"/>	PDI-026SC-B-06-08-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-05	<input type="checkbox"/>	PDI-077SC-B-00-02-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-06	<input type="checkbox"/>	PDI-077SC-B-02-04-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-07	<input type="checkbox"/>	PDI-077SC-B-04-06-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-08	<input type="checkbox"/>	PDI-077SC-B-06-08-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-09	<input type="checkbox"/>	PDI-077SC-B-08-10-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-10	<input checked="" type="checkbox"/>	PDI-079SC-B-02-04-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-11	<input type="checkbox"/>	PDI-079SC-B-04-06-191014	18-Oct-19 08:59	WR-2 G-5	
1903736-12	<input type="checkbox"/>	PDI-079SC-B-06-08-191014	18-Oct-19 08:59	WR-2 G-5	

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

Pre-Prep Check Out: N/A
 Pre-Prep Check In: N/A

Prep Check Out: RR 02/06/20
 Prep Check In: ELL 02/06/20

Prep Reconciled Initials/Date: RR 02/06/20
 Spike Reconciled Initials/Date: ELL 02/06/20
 VialBoxID: Picard

NO NAME GRS 03/14/2020

PREPARATION BENCH SHEET

Matrix: Solid

B0B0031

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 05-Feb-20 14:26

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"/>	B0B0031-BLK1	NA	(10.00)	AO AZ 02-06-20	AO AZ 02-07-20	AZ 02-07-20	AO 02/07/20	AO 02/07/20	AO 02/11/20	AO AZ 02/11/20
<input type="checkbox"/>	B0B0031-BS1	J	(10.00)	↓	↓	↓	ns. 02/07/20 yellow	↓	↓	↓
<input type="checkbox"/>	B0B0031-DUP1 2000144-01	14.47	14.48	↓	↓	NA	yellow	↓	↓	↓
<input type="checkbox"/>	1903736-10RE2 A	17.32	17.32	↓	↓	AZ 02-07-20	yellow	↓	↓	↓
<input type="checkbox"/>	2000144-01	14.47	14.52	↓	↓	NA	yellow	↓	↓	↓
<input type="checkbox"/>	2000144-02	17.18	17.22	↓	↓	↓	orange	↓	↓	↓
<input type="checkbox"/>	2000144-03	16.26	16.30	↓	↓	↓	orange	↓	↓	↓
<input type="checkbox"/>	2000144-04	13.22	13.26	↓	↓	white →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-05	19.09	19.10	↓	↓	yellow →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-06	16.58	16.68	↓	↓	yellow →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-07	15.37	15.43	↓	↓	orange →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-08	12.22	12.23	↓	↓	yellow →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-09	14.93	14.98	↓	↓	white →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-10 *	17.75	16.34	↓	↓	yellow →	↓	↓	↓	↓
<input type="checkbox"/>	2000144-11	17.75	17.76	↓	↓	orange →	↓	↓	↓	↓

IS Name <u>Vp</u>	NS Name <u>V3</u>	CRS Name <u>Vp</u>	RS Name <u>V4</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RR 02/06/20</u>
PCDD/F <u>19L2301, 10uL</u>	PCDD/F <u>18F1913, 10uL</u>	PCDD/F <u>19I1602, 10uL</u>	PCDD/F <u>19I1603, 10uL</u>	Start Date/Time <u>02-06-20</u> <u>1:400</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>ELL 02/06/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>02-07-20</u> <u>0600</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14</u> <u>20uL</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

*16.23

PREPARATION BENCH SHEET

Matrix: Solid

B0B0031

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 05-Feb-20 14:26

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"/>	2000144-12	17.47	17.56	AO AZ 02-06-20	AO AZ 02-07-20	NA	AO 02/04/20	AO 02/06/20	AO 02/11/20	AO AZ 02/14/20
<input type="checkbox"/>	2000144-13	20.37	20.48	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000144-14	20.04	20.28	↓	↓	↓	↓	↓	↓	↓

- (A) Rinsed RB w/ DCM to remove part during AP AZ 02-07-20
- (B) Drying AP shakout w/ H₂O + sample + nexac = emused AZ 02-07-20

IS Name <u>V6</u>	NS Name <u>V3</u>	CRS Name <u>V4</u>	RS Name <u>V4</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RR 02-06-20</u>
PCDD/F <u>19I2301, 10ML</u>	PCDD/F <u>8F1913, 10ML</u>	PCDD/F <u>19I1602, 10ML</u>	PCDD/F <u>19I1603, 10ML</u>	Start Date/Time <u>02-06-20</u> 1400	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>ELU 02/06/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>02-07-20</u> 0600	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14</u> <u>20ML</u>		

Comments:

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

Batch: B0B0031

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903736-10RE2	17.32 ✓	57.73809	10.0002	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-01	14.52 ✓	69.12752	10.0373	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-02	17.22 ✓	58.21501	10.0246	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-03	16.3 ✓	61.51079	10.0263	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-04	13.26 ✓	75.66964	10.0338	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-05	19.1 ✓	52.37069	10.0028	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-06	16.68 ✓	60.3211	10.0616	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-07	15.43 ✓	65.04066	10.0358	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-08	12.23 ✓	81.83717	10.0087	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-09	14.98 ✓	66.98795	10.0348	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-10	16.34 ✓	61.6041	10.0661	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-11	17.76 ✓	56.32912	10.0041	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-12	17.56 ✓	57.2337	10.0502	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-13	20.48 ✓	49.0909	10.0538	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
2000144-14	20.28 ✓	49.90548	10.1208	20	06-Feb-20 14:26	ACO			Sediment	1613 Full List
B0B0031-BLK1	10			20	05-Feb-20 14:26	ACO				QC
B0B0031-BS1	10			20	05-Feb-20 14:26	ACO	18F1913	10		QC
B0B0031-DUP1	14.48 ✓			20	05-Feb-20 14:26	ACO				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 02/11/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-7.qld

Last Altered: Friday, February 28, 2020 15:18:57 Pacific Standard Time

Printed: Monday, March 16, 2020 14:20:45 Pacific Daylight Time

03/16/2020
M 3/17/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD		2.25e6			10.00	25.75		1.00		NO			0.040	
2	2 1,2,3,7,8-PeCDD		1.79e6			10.00	30.83		1.00		NO			0.042	
3	3 1,2,3,4,7,8-HxCDD		1.32e6			10.00	34.19		1.00		NO			0.054	
4	4 1,2,3,6,7,8-HxCDD		1.57e6			10.00	34.28		1.00		NO			0.053	
5	5 1,2,3,7,8,9-HxCDD		1.49e6			10.00	34.59		1.00		NO			0.060	
6	6 1,2,3,4,6,7,8-HpCDD		1.16e6			10.00	38.06		1.00		NO			0.094	
7	7 OCDD	1.37e3	1.76e6	0.931	NO	10.00	41.15	41.17	1.00	1.00	NO	0.31829		0.120	0.31800
8	8 2,3,7,8-TCDF		2.86e6			10.00	24.82		1.00		NO			0.033	
9	9 1,2,3,7,8-PeCDF		2.44e6			10.00	29.53		1.00		NO			0.033	
10	10 2,3,4,7,8-PeCDF		2.37e6			10.00	30.53		1.00		NO			0.031	
11	11 1,2,3,4,7,8-HxCDF		1.64e6			10.00	33.33		1.00		NO			0.049	
12	12 1,2,3,6,7,8-HxCDF		1.89e6			10.00	33.45		1.00		NO			0.047	
13	13 2,3,4,6,7,8-HxCDF		1.72e6			10.00	34.04		1.00		NO			0.050	
14	14 1,2,3,7,8,9-HxCDF	5.14e2	1.45e6	1.000	YES	10.00	34.89	34.90	1.00	1.00	NO	0.082566		0.073	0.0750...
15	15 1,2,3,4,6,7,8-HpCDF		1.29e6			10.00	36.66		1.00		NO			0.068	
16	16 1,2,3,4,7,8,9-HpCDF		8.70e5			10.00	38.69		1.00		NO			0.087	
17	17 OCDF	6.88e2	1.99e6	0.827	NO	10.00	41.34	41.37	1.00	1.00	NO	0.17198		0.107	0.17200
18	18 13C-2,3,7,8-TCDD	2.25e6	2.38e6	0.766	NO	10.00	25.71	25.72	1.03	1.03	NO	157.28	78.6	0.100	
19	19 13C-1,2,3,7,8-PeCDD	1.79e6	2.38e6	0.627	NO	10.00	30.45	30.80	1.22	1.23	NO	155.22	77.6	0.375	
20	20 13C-1,2,3,4,7,8-HxCDD	1.32e6	2.12e6	1.269	NO	10.00	34.18	34.18	1.01	1.01	NO	142.32	71.2	0.184	
21	21 13C-1,2,3,6,7,8-HxCDD	1.57e6	2.12e6	1.244	NO	10.00	34.28	34.28	1.02	1.02	NO	140.93	70.5	0.154	
22	22 13C-1,2,3,7,8,9-HxCDD	1.49e6	2.12e6	1.244	NO	10.00	34.59	34.55	1.03	1.02	NO	144.21	72.1	0.165	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.16e6	2.12e6	1.043	NO	10.00	38.16	38.04	1.13	1.13	NO	146.71	73.4	0.310	
24	24 13C-OCDD	1.76e6	2.12e6	0.927	NO	10.00	41.06	41.15	1.22	1.22	NO	234.94	58.7	0.198	
25	25 13C-2,3,7,8-TCDF	2.86e6	3.45e6	0.765	NO	10.00	24.89	24.79	0.99	0.99	NO	155.75	77.9	0.175	
26	26 13C-1,2,3,7,8-PeCDF	2.44e6	3.45e6	1.576	NO	10.00	29.47	29.51	1.18	1.18	NO	141.41	70.7	0.318	
27	27 13C-2,3,4,7,8-PeCDF	2.37e6	3.45e6	1.579	NO	10.00	30.44	30.50	1.21	1.22	NO	143.02	71.5	0.332	
28	28 13C-1,2,3,4,7,8-HxCDF	1.64e6	2.12e6	0.512	NO	10.00	33.31	33.33	0.99	0.99	NO	147.45	73.7	0.392	
29	29 13C-1,2,3,6,7,8-HxCDF	1.89e6	2.12e6	0.515	NO	10.00	33.41	33.44	0.99	0.99	NO	149.28	74.6	0.346	
30	30 13C-2,3,4,6,7,8-HxCDF	1.72e6	2.12e6	0.520	NO	10.00	34.02	34.01	1.01	1.01	NO	152.23	76.1	0.386	
31	31 13C-1,2,3,7,8,9-HxCDF	1.45e6	2.12e6	0.534	NO	10.00	34.92	34.89	1.04	1.04	NO	147.99	74.0	0.446	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.29e6	2.12e6	0.444	NO	10.00	36.68	36.63	1.09	1.09	NO	158.60	79.3	0.264	

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-7.qld

Last Altered: Friday, February 28, 2020 15:18:57 Pacific Standard Time

Printed: Monday, March 16, 2020 14:20:45 Pacific Daylight Time

Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

#	Name	Area	IS Area	FIA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.70e5	2.12e6	0.442	NO	10.00	38.70	38.69	1.15	1.15	NO	148.34	74.2	0.366	
34	34 13C-OCDF	1.99e6	2.12e6	0.885	NO	10.00	41.29	41.34	1.23	1.23	NO	236.98	59.2	0.182	
35	35 37Cl-2,3,7,8-TCDD	8.80e5	2.38e6			10.00	25.74	25.75	1.03	1.03	NO	62.720	78.4	0.028	
36	36 13C-1,2,3,4-TCDD	2.38e6	2.38e6	0.782	NO	10.00	25.11	25.06	1.00	1.00	NO	200.00	100.0	0.120	
37	37 13C-1,2,3,4-TCDF	3.45e6	3.45e6	0.791	NO	10.00	23.37	23.30	1.00	1.00	NO	200.00	100.0	0.187	
38	38 13C-1,2,3,4,6,9-HxCDF	2.12e6	2.12e6	0.510	NO	10.00	33.71	33.71	1.00	1.00	NO	200.00	100.0	0.412	
39	39 Total Tetra-Dioxins		2.25e6			10.00	24.62		0.00		NO			0.022	
40	40 Total Penta-Dioxins		1.79e6			10.00	29.96		0.00		NO			0.017	
41	41 Total Hexa-Dioxins		0.00e0			10.00	33.63		0.00		NO			0.033	
42	42 Total Hepta-Dioxins		1.16e6			10.00	37.64		0.00		NO			0.050	
43	43 Total Tetra-Furans		2.86e6			10.00	23.61		0.00		NO			0.016	
44	44 1st Func. Penta-Furans		0.00e0			10.00	27.09		0.00		NO			0.013	
45	45 Total Penta-Furans		0.00e0			10.00	29.27		0.00		NO			0.016	
46	46 Total Hexa-Furans		0.00e0			10.00	33.56		0.00		NO	0.048234		0.052	0.12300
47	47 Total Hepta-Furans		0.00e0			10.00	37.83		0.00		NO			0.042	

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-7.qld

Last Altered: Friday, February 28, 2020 15:18:57 Pacific Standard Time

Printed: Monday, March 16, 2020 14:20:45 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06

Tetra-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1								

Penta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1								

Hexa-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1								

Hepta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1								

Tetra-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1								

Penta-Furans function 1

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1								

Penta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1								

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-7.qld

Last Altered: Friday, February 28, 2020 15:18:57 Pacific Standard Time

Printed: Monday, March 16, 2020 14:20:45 Pacific Daylight Time

Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06

Hexa-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	46 Total Hexa-Furans	34.95	1.118	NO	1.92e2	5.73e5	0.0482	0.0480
2	14 1,2,3,7,8,9-HxCDF	34.90	1.000	YES	2.57e2	5.05e5	0.000	0.0750

Hepta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1								

Dataset: Untitled

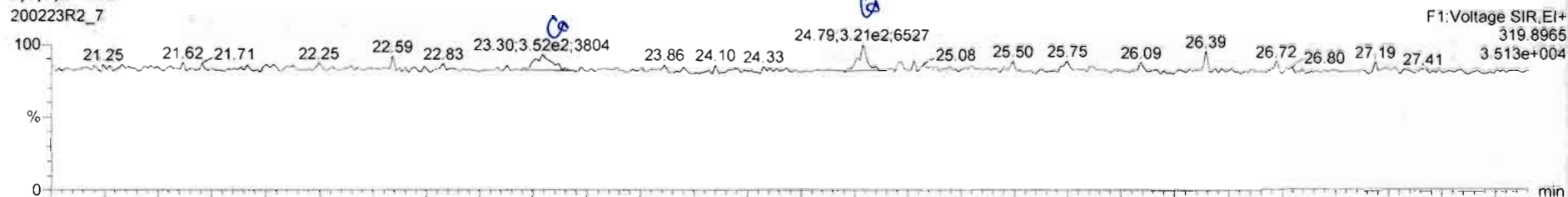
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

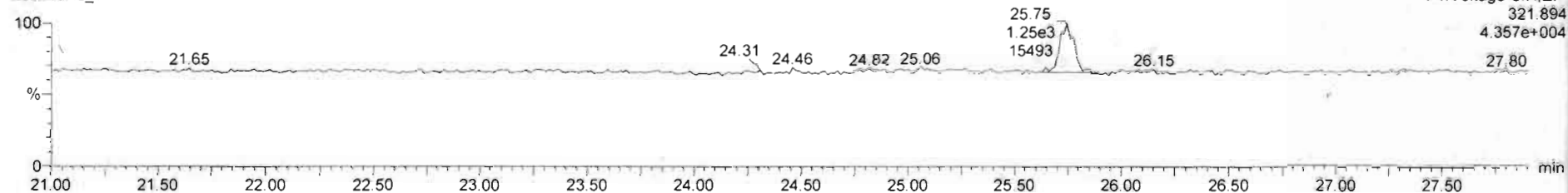
Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200223R2_7

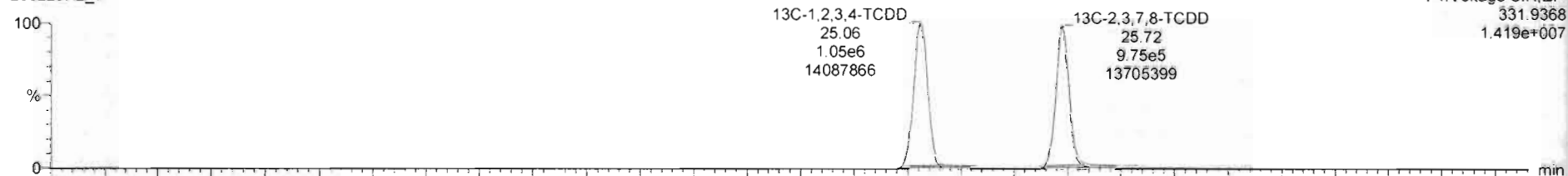


200223R2_7

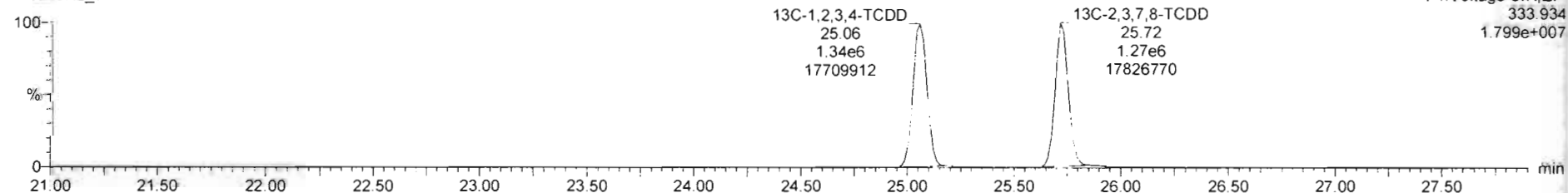


13C-2,3,7,8-TCDD

200223R2_7



200223R2_7



Dataset: Untitled

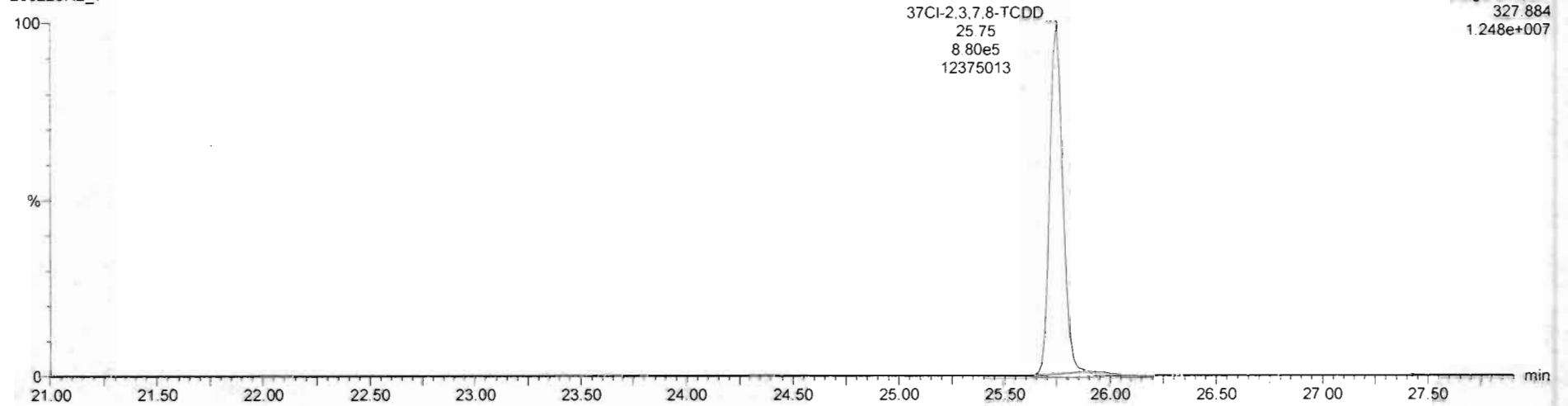
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

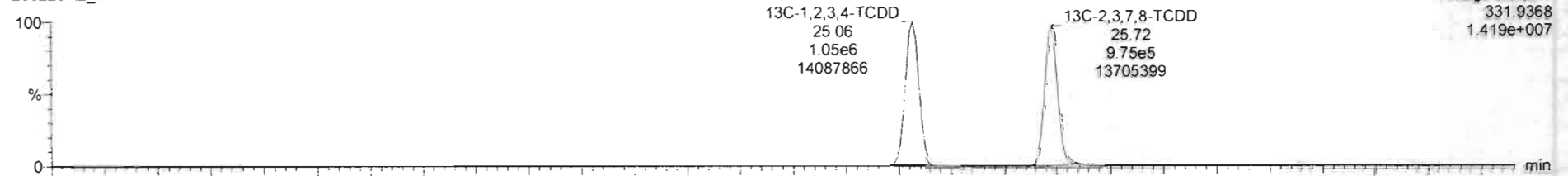
37Cl-2,3,7,8-TCDD

200223R2_7

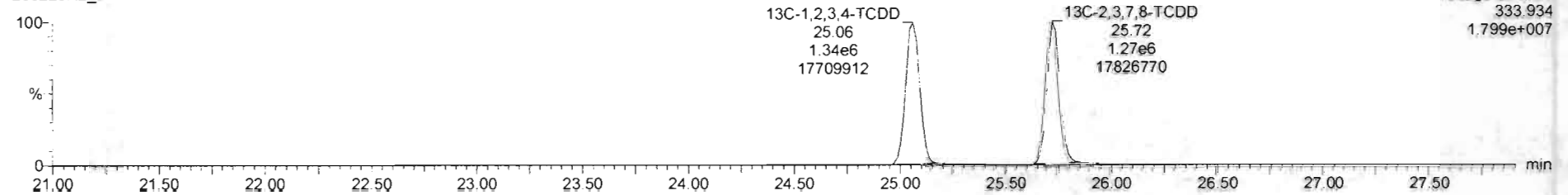


13C-1,2,3,4-TCDD

200223R2_7



200223R2_7



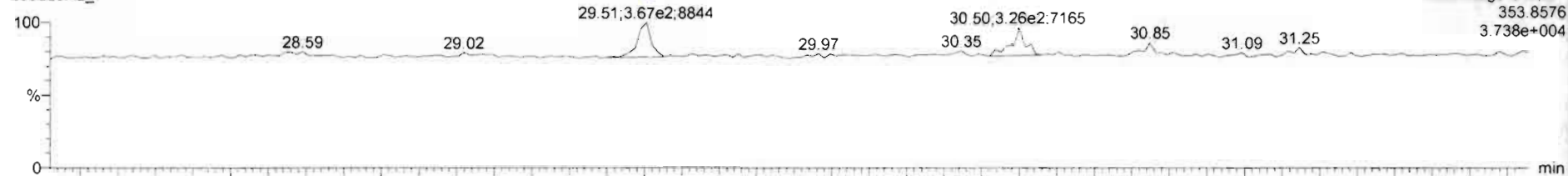
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

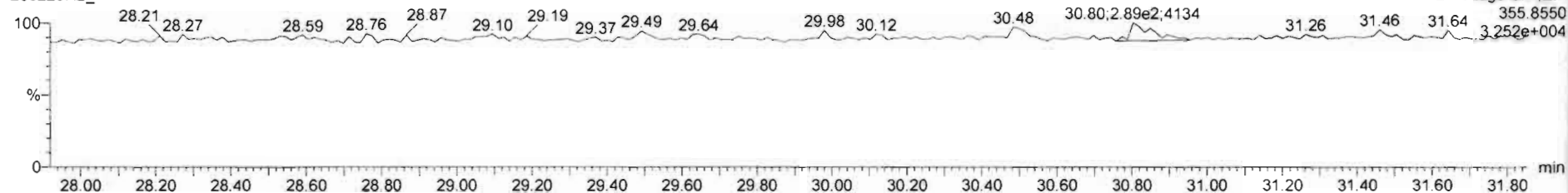
Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200223R2_7

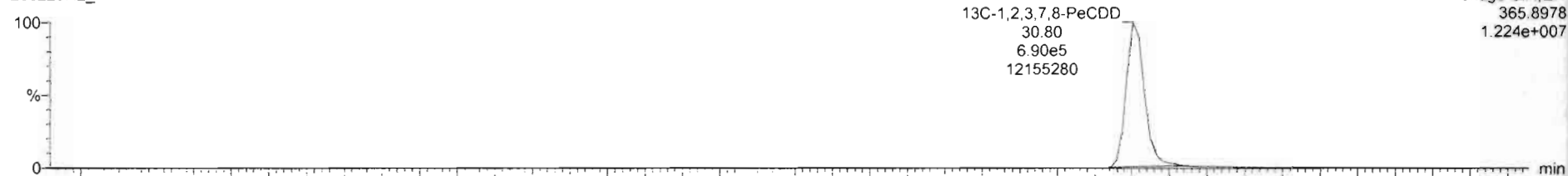


200223R2_7

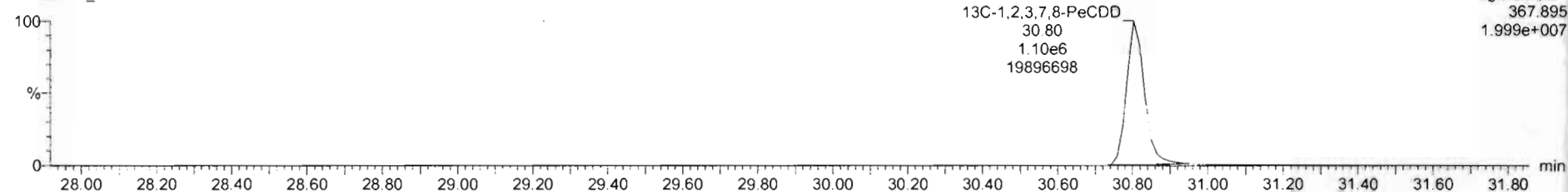


13C-1,2,3,7,8-PeCDD

200223R2_7



200223R2_7

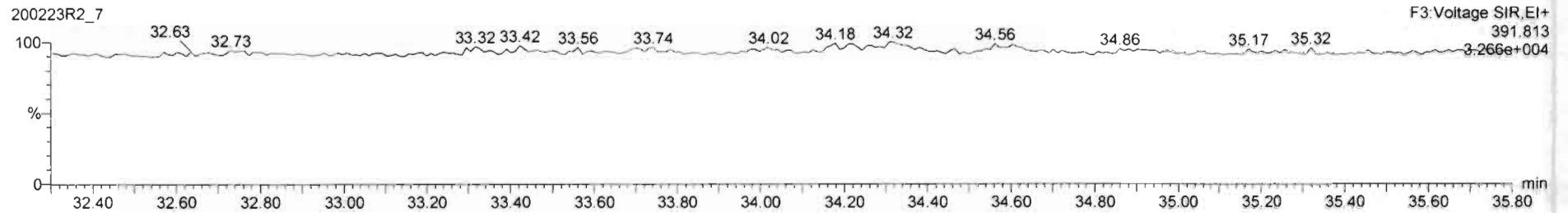
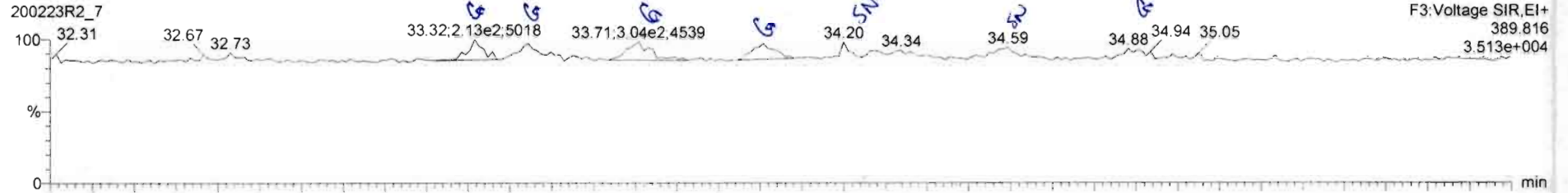


Dataset: Untitled

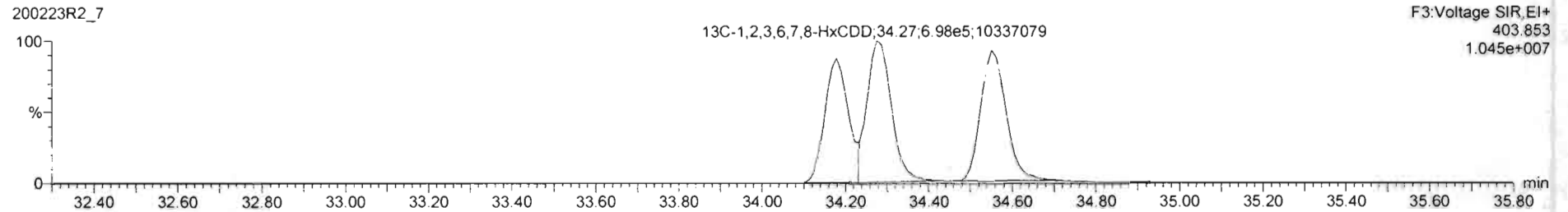
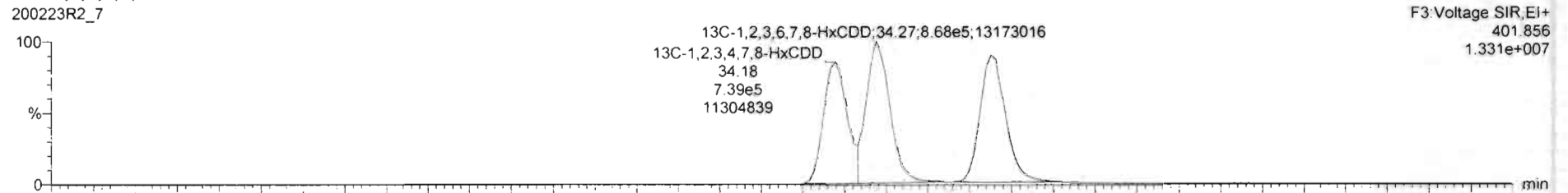
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

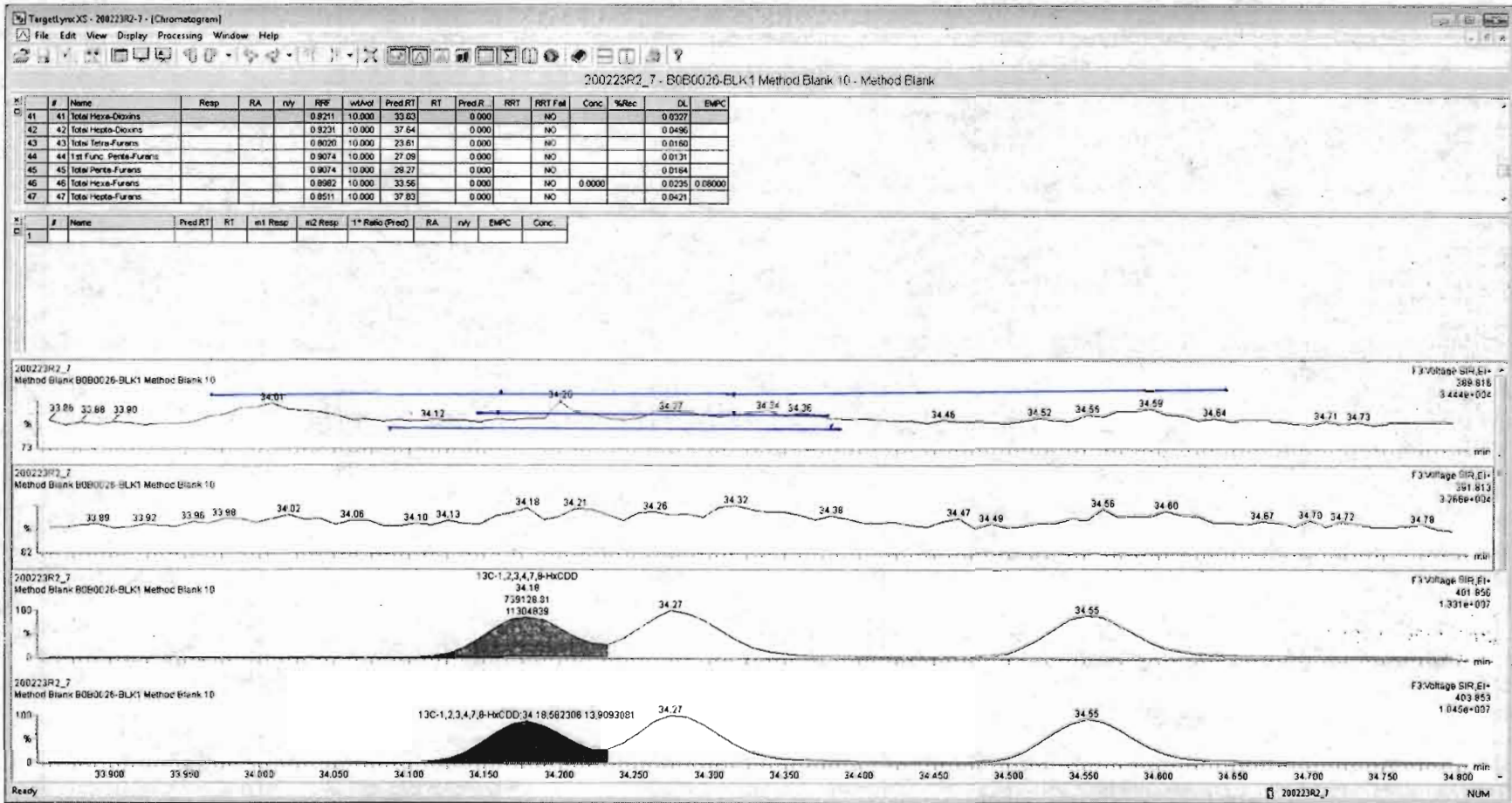
Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

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



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





Dataset: Untitled

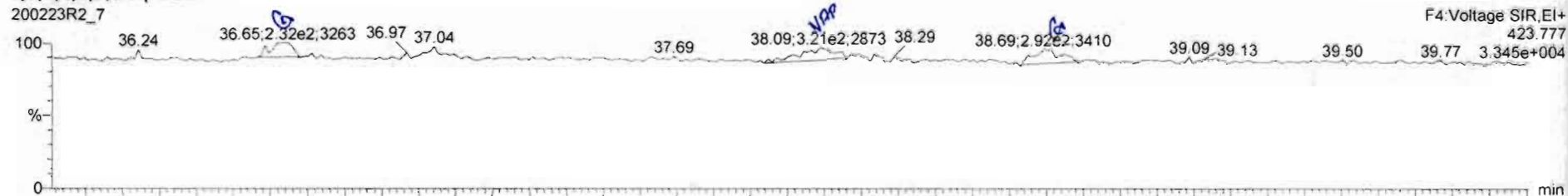
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

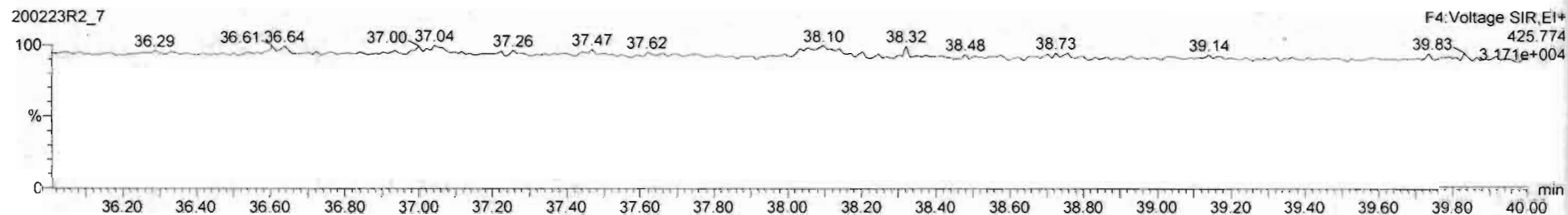
Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

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

200223R2_7

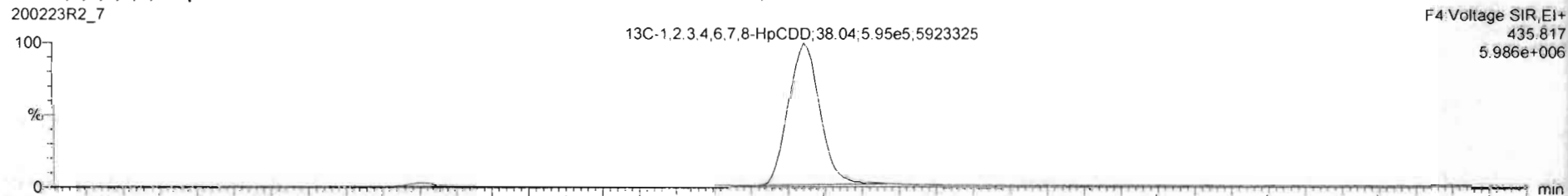


200223R2_7

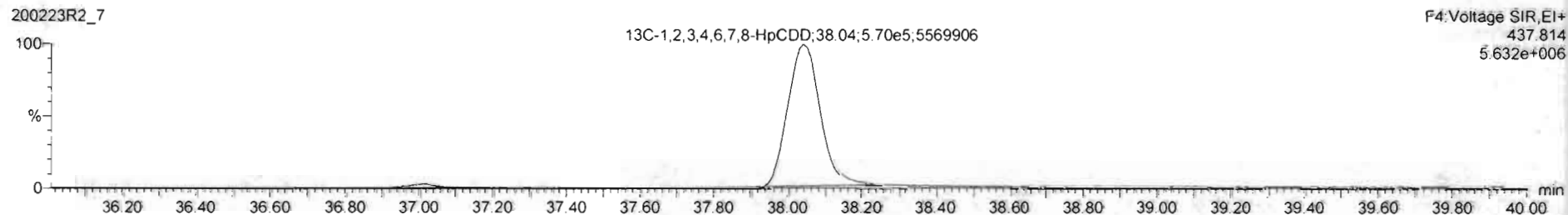


13C-1,2,3,4,6,7,8-HpCDD

200223R2_7



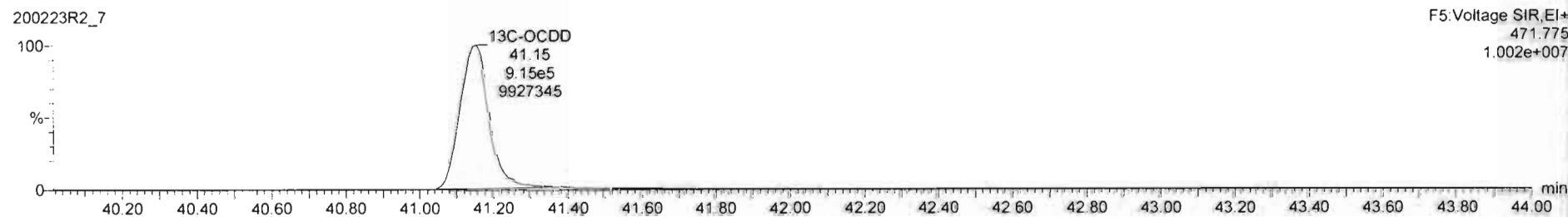
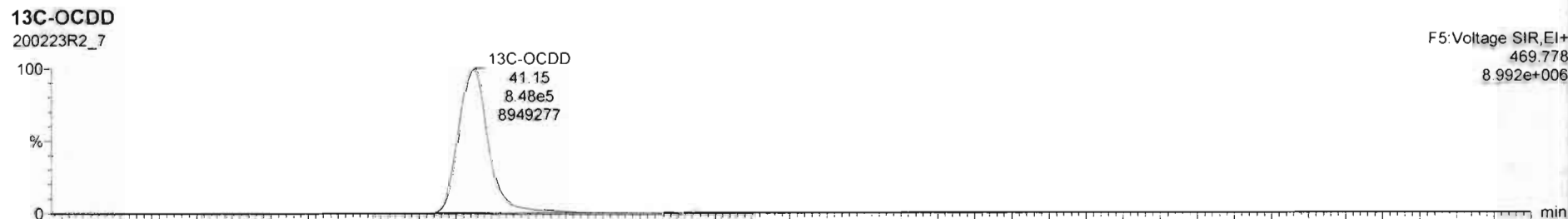
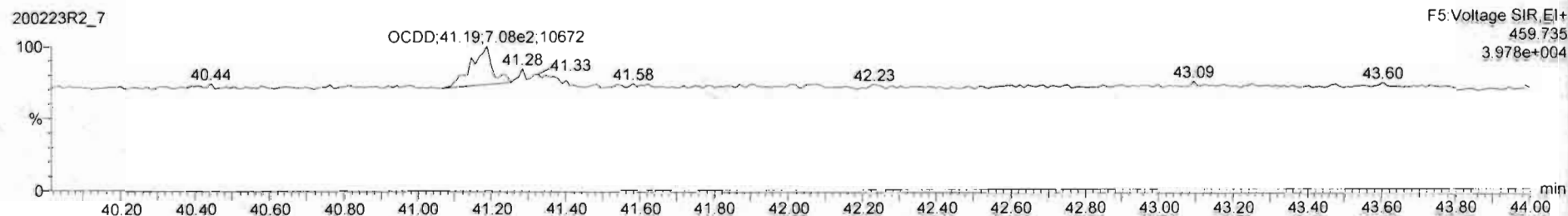
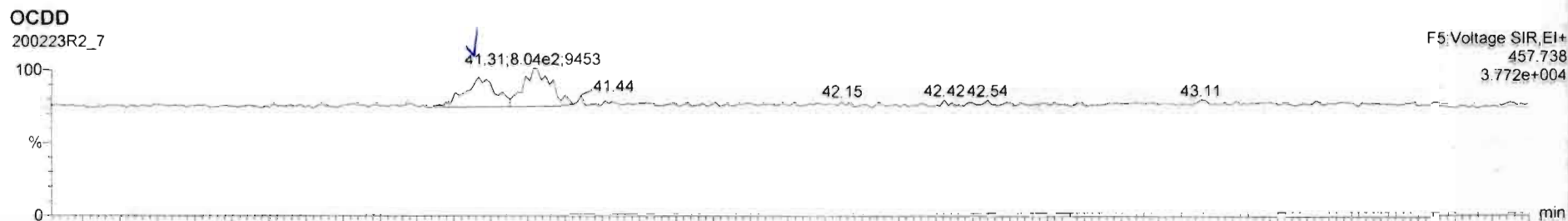
200223R2_7



Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank



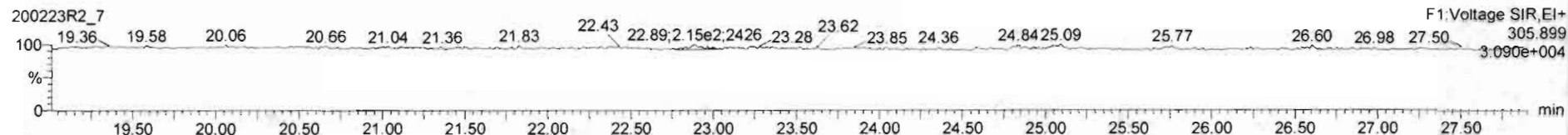
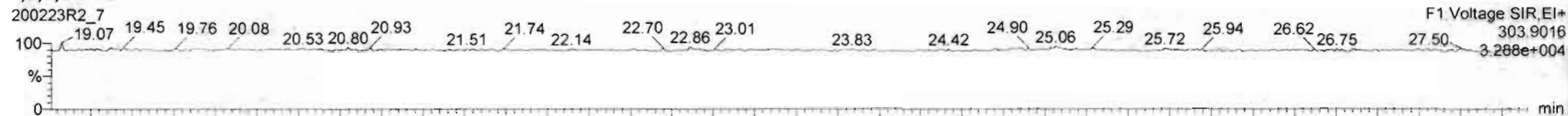
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

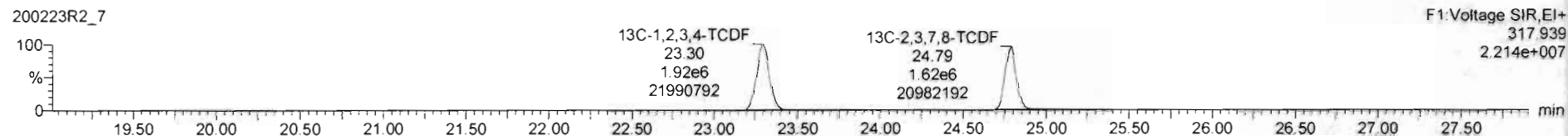
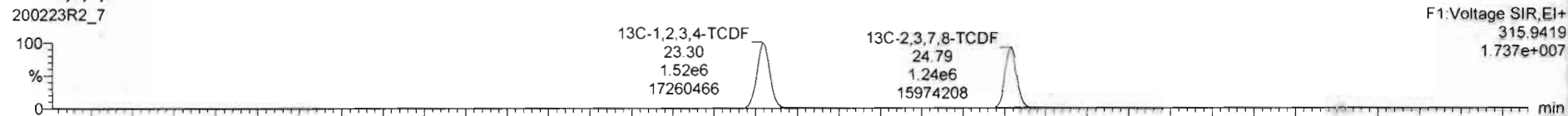
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

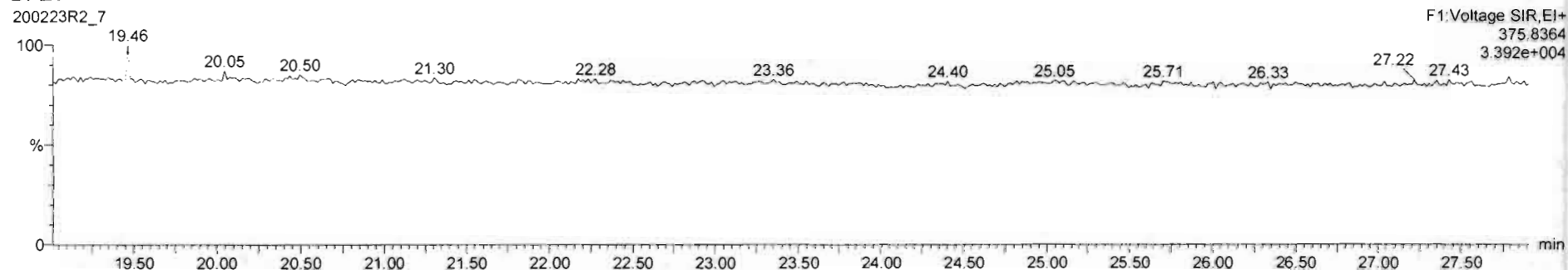
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

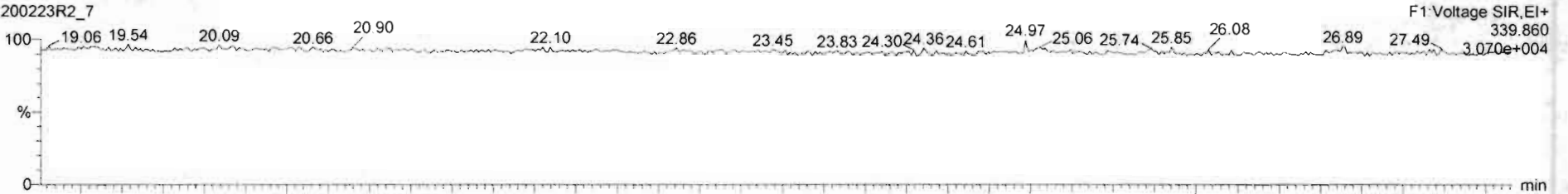
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

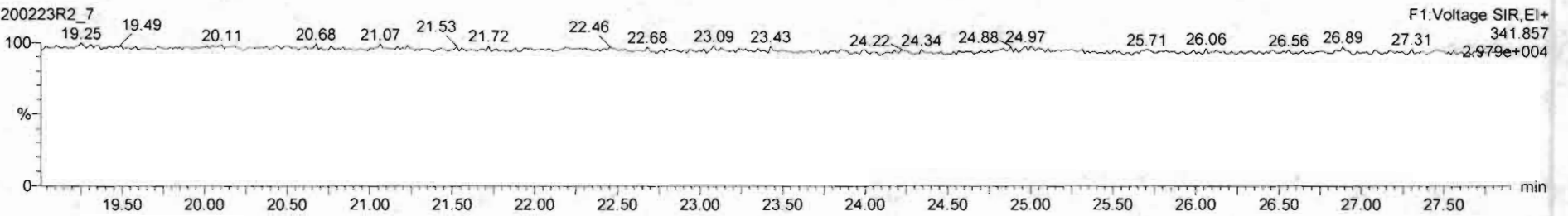
Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200223R2_7

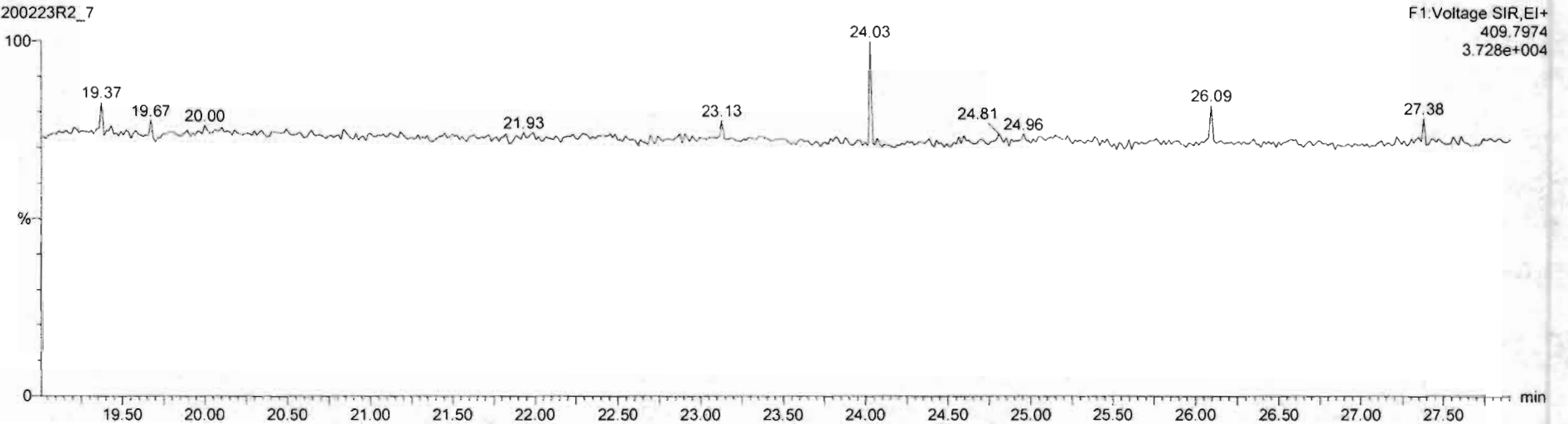


200223R2_7



DPE6

200223R2_7



Dataset: Untitled

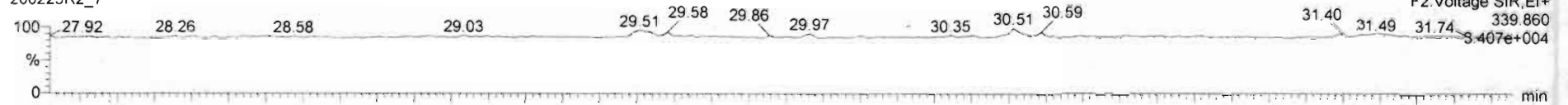
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

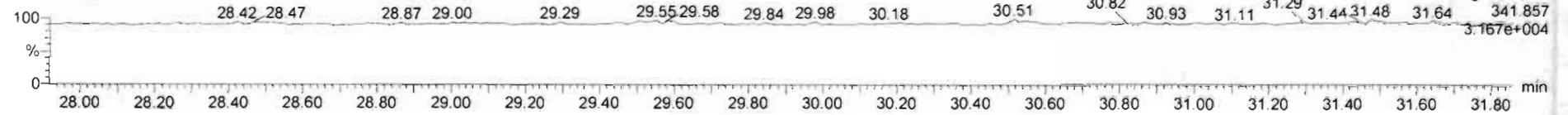
Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDF

200223R2_7

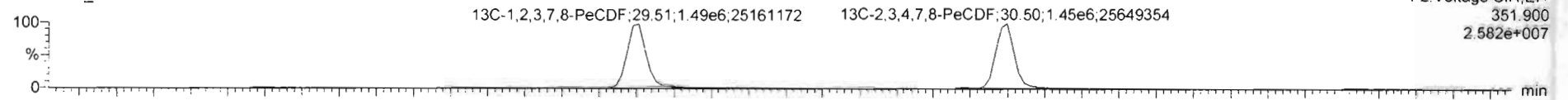


200223R2_7

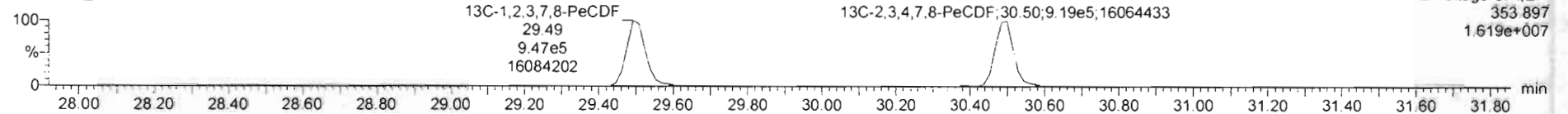


13C-1,2,3,7,8-PeCDF

200223R2_7

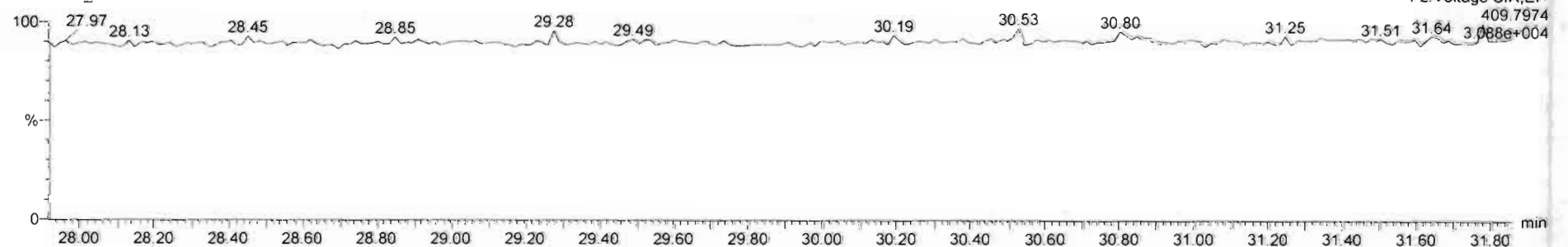


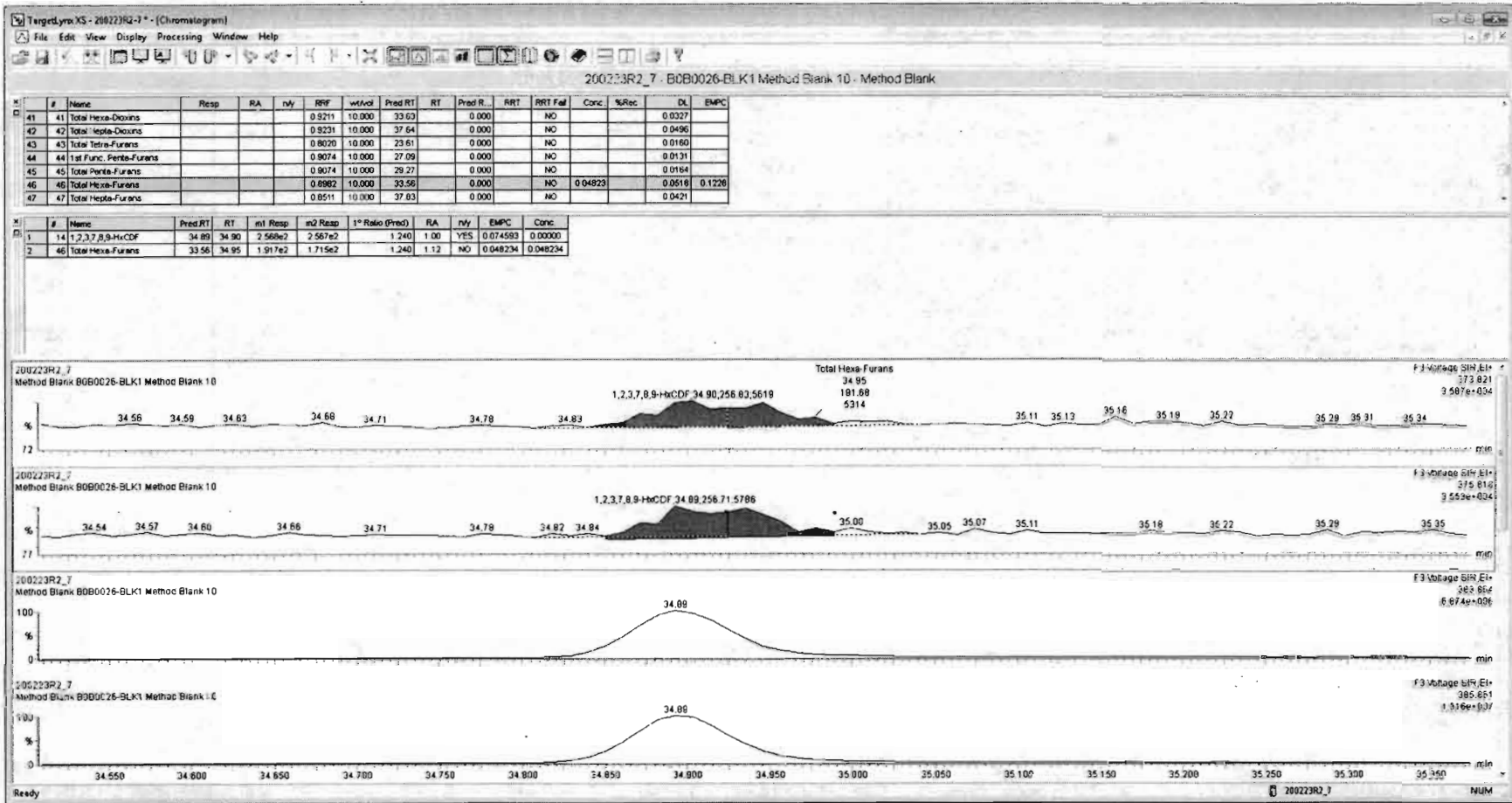
200223R2_7



DPE2

200223R2_7





Dataset: Untitled

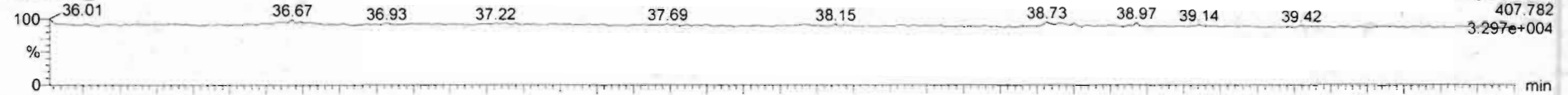
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

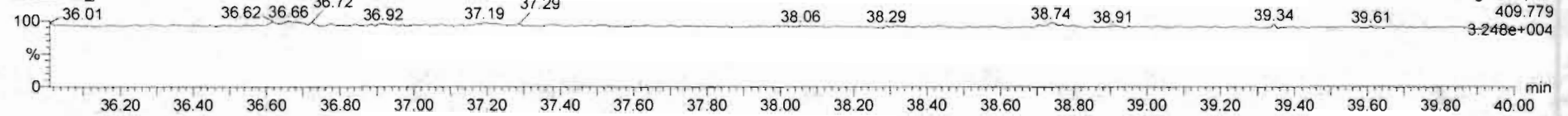
Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

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

200223R2_7

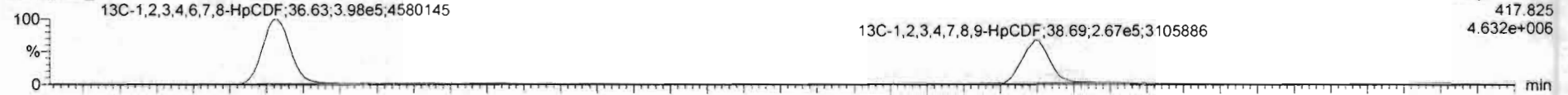


200223R2_7

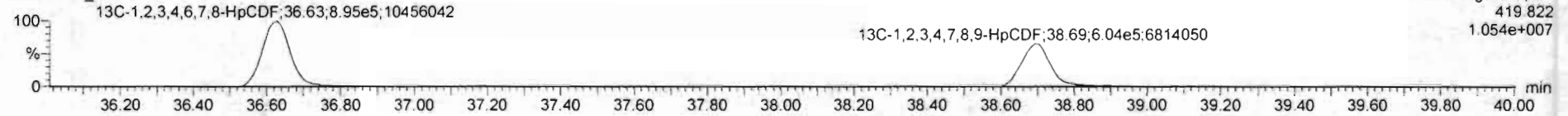


13C-1,2,3,4,6,7,8-HpCDF

200223R2_7

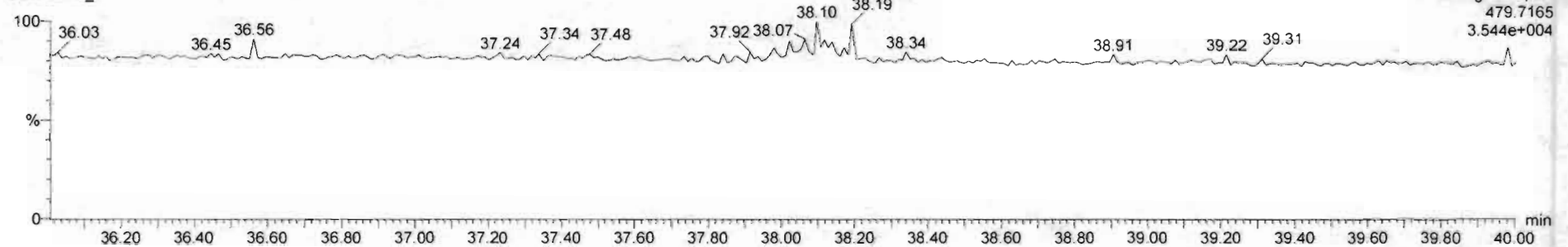


200223R2_7



DPE4

200223R2_7



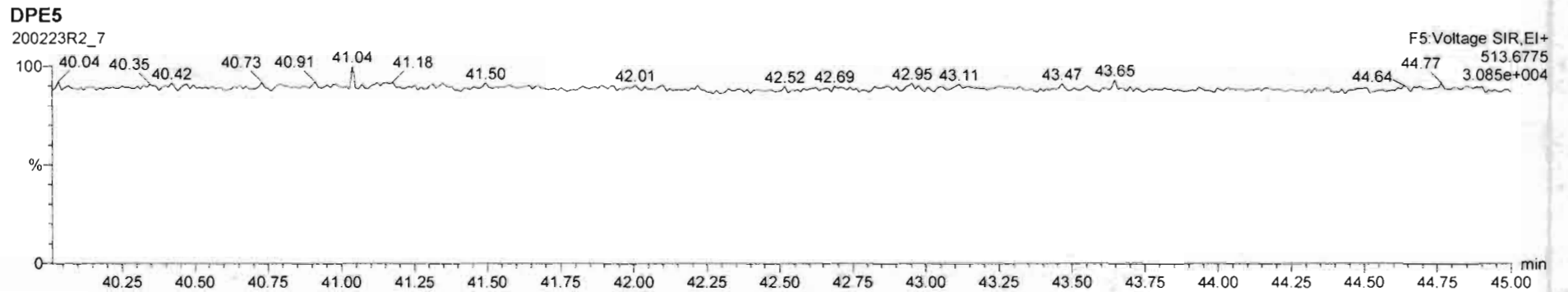
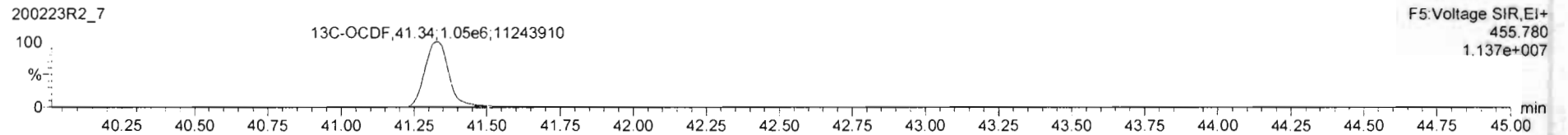
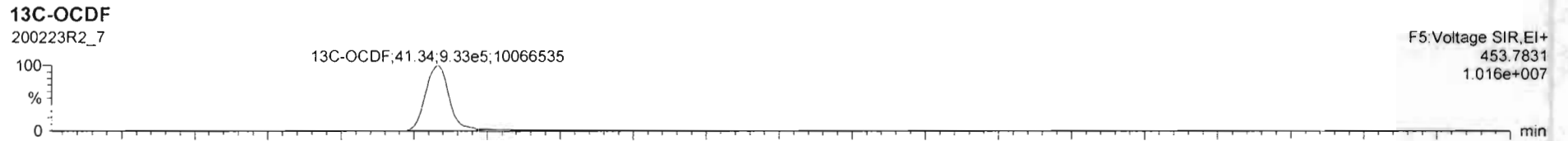
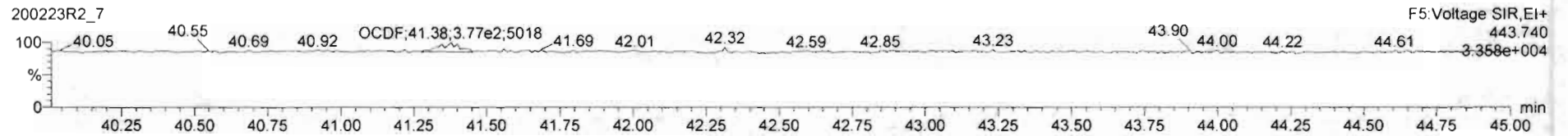
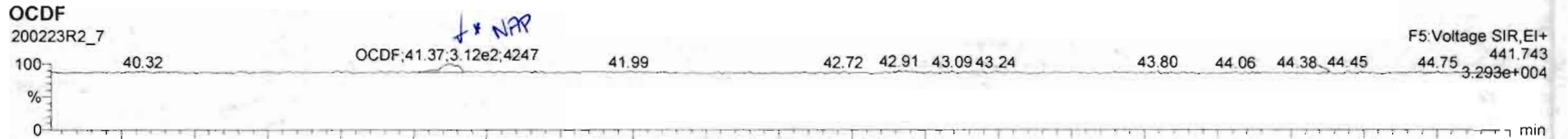
Dataset: Untitled

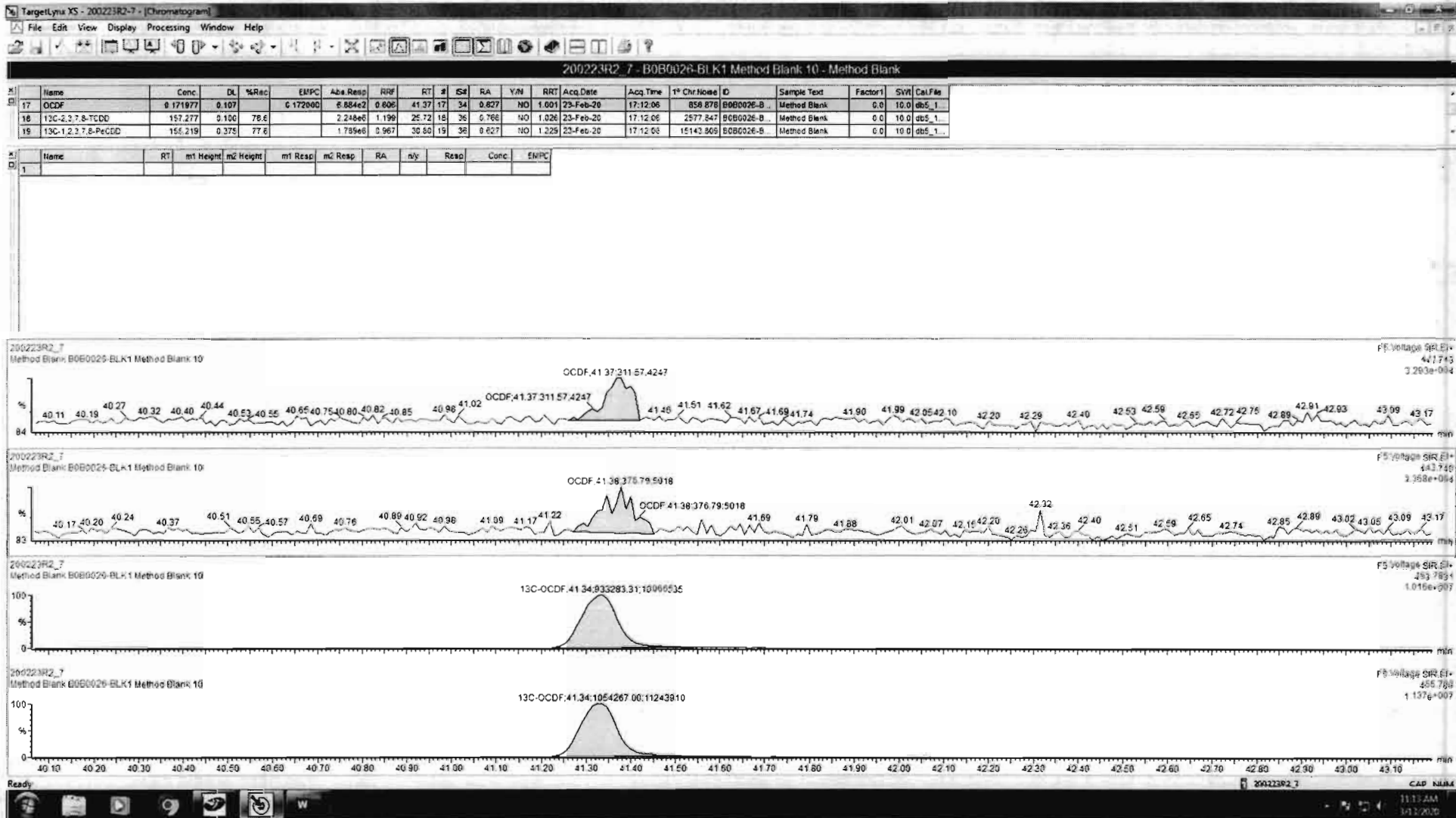
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank

* BL 03/16/2020

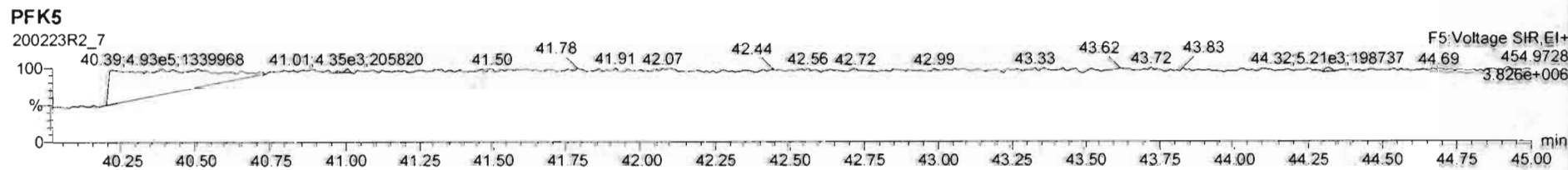
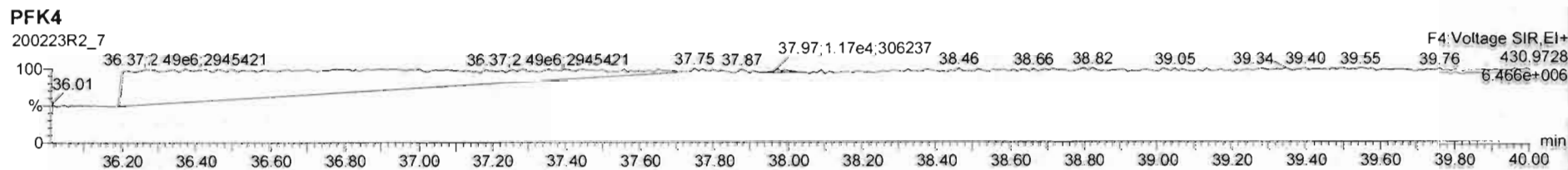
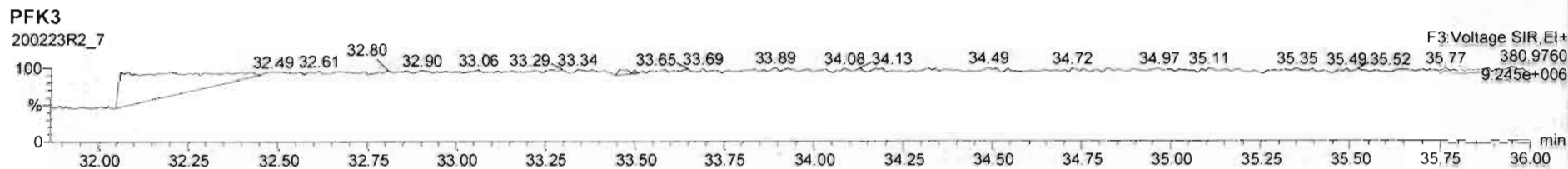
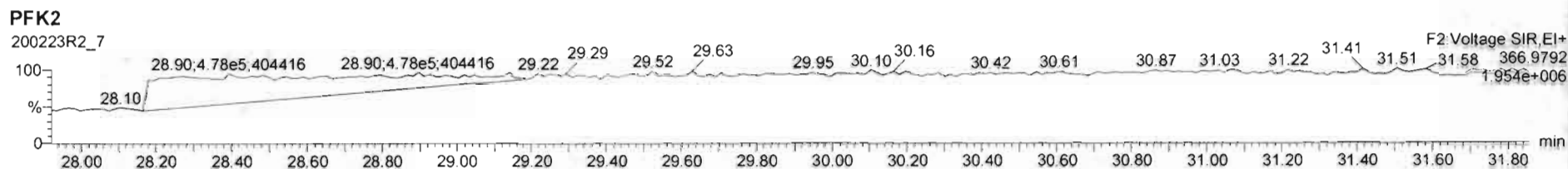
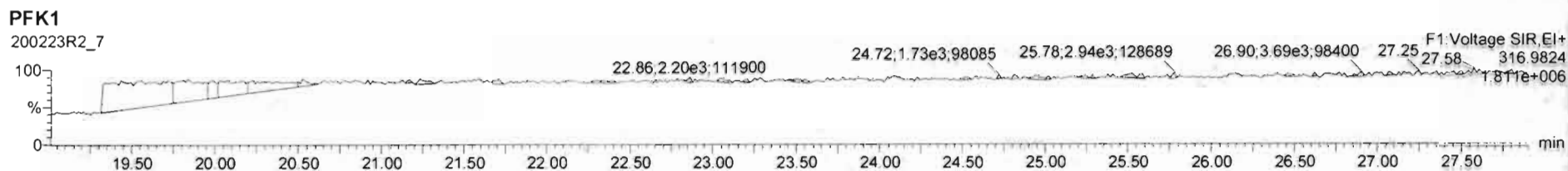




Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_7, Date: 23-Feb-2020, Time: 17:12:06, ID: B0B0026-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200223R2\200223R2-4.qld

Last Altered: Monday, February 24, 2020 08:17:48 Pacific Standard Time

Printed: Monday, March 02, 2020 10:36:56 Pacific Standard Time

SL 03/02/2020
SL 3/11/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

#	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	199073.367	0.739	NO	0.988	10.000	25.75	25.75	1.00	1.00	NO	17.66		0.0462	17.66
2	2 1,2,3,7,8-PeCDD	782485.281	0.621	NO	0.972	10.000	30.83	30.82	1.00	1.00	NO	84.45		0.0953	84.44
3	3 1,2,3,4,7,8-HxCDD	716757.938	1.239	NO	1.07	10.000	34.19	34.19	1.00	1.00	NO	93.95		0.118	93.95
4	4 1,2,3,6,7,8-HxCDD	763866.344	1.238	NO	0.921	10.000	34.28	34.30	1.00	1.00	NO	97.25		0.124	97.25
5	5 1,2,3,7,8,9-HxCDD	689608.594	1.212	NO	0.918	10.000	34.59	34.56	1.00	1.00	NO	97.60		0.144	97.60
6	6 1,2,3,4,6,7,8-HpCDD	567377.188	1.019	NO	0.923	10.000	38.06	38.07	1.00	1.00	NO	96.45		0.304	96.45
7	7 OCDD	869121.563	0.878	NO	0.975	10.000	41.17	41.18	1.00	1.00	NO	179.4		0.276	179.4
8	8 2,3,7,8-TCDF	219281.454	0.765	NO	0.802	10.000	24.82	24.81	1.00	1.00	NO	19.70		0.0480	19.70
9	9 1,2,3,7,8-PeCDF	1107758.3...	1.555	NO	0.907	10.000	29.53	29.52	1.00	1.00	NO	94.24		0.114	94.24
10	10 2,3,4,7,8-PeCDF	1143115.876	1.545	NO	0.952	10.000	30.53	30.51	1.00	1.00	NO	95.83		0.108	95.83
11	11 1,2,3,4,7,8-HxCDF	811243.719	1.208	NO	0.862	10.000	33.33	33.34	1.00	1.00	NO	105.0		0.192	105.0
12	12 1,2,3,6,7,8-HxCDF	937906.750	1.221	NO	0.841	10.000	33.45	33.46	1.00	1.00	NO	108.7		0.185	108.7
13	13 2,3,4,6,7,8-HxCDF	892511.219	1.211	NO	0.898	10.000	34.04	34.02	1.00	1.00	NO	107.1		0.196	107.1
14	14 1,2,3,7,8,9-HxCDF	695832.844	1.218	NO	0.858	10.000	34.89	34.91	1.00	1.00	NO	105.1		0.281	105.1
15	15 1,2,3,4,6,7,8-HpCDF	596378.687	1.004	NO	0.851	10.000	36.67	36.64	1.00	1.00	NO	109.1		0.281	109.1
16	16 1,2,3,4,7,8,9-HpCDF	542190.813	0.999	NO	0.980	10.000	38.69	38.71	1.00	1.00	NO	110.2		0.326	110.2
17	17 OCDF	960312.094	0.881	NO	0.806	10.000	41.34	41.35	1.00	1.00	NO	207.7		0.245	207.7
18	18 13C-2,3,7,8-TCDD	2282112.7...	0.780	NO	1.20	10.000	25.71	25.72	1.03	1.03	NO	170.3	85.2	0.128	
19	19 13C-1,2,3,7,8-PeCDD	1906063.6...	0.626	NO	0.967	10.000	30.45	30.80	1.22	1.23	NO	176.4	88.2	0.203	
20	20 13C-1,2,3,4,7,8-HxCDD	1424886.5...	1.261	NO	0.874	10.000	34.18	34.18	1.01	1.01	NO	155.1	77.5	0.251	
21	21 13C-1,2,3,6,7,8-HxCDD	1705365.2...	1.257	NO	1.05	10.000	34.28	34.28	1.02	1.02	NO	155.1	77.5	0.210	
22	22 13C-1,2,3,7,8,9-HxCDD	1538997.7...	1.241	NO	0.974	10.000	34.59	34.55	1.03	1.02	NO	150.2	75.1	0.225	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1274615.9...	1.041	NO	0.747	10.000	38.16	38.04	1.13	1.13	NO	162.2	81.1	0.330	
24	24 13C-OCDD	1988130.9...	0.891	NO	0.707	10.000	41.06	41.17	1.22	1.22	NO	267.6	66.9	0.220	
25	25 13C-2,3,7,8-TCDF	2775651.7...	0.773	NO	1.07	10.000	24.89	24.79	0.99	0.99	NO	160.2	80.1	0.185	
26	26 13C-1,2,3,7,8-PeCDF	2590949.8...	1.564	NO	1.00	10.000	29.47	29.51	1.18	1.18	NO	159.1	79.5	0.192	
27	27 13C-2,3,4,7,8-PeCDF	2507047.5...	1.574	NO	0.962	10.000	30.44	30.50	1.21	1.22	NO	160.3	80.2	0.200	
28	28 13C-1,2,3,4,7,8-HxCDF	1792441.3...	0.514	NO	1.05	10.000	33.31	33.33	0.99	0.99	NO	162.5	81.2	0.283	
29	29 13C-1,2,3,6,7,8-HxCDF	2051475.8...	0.520	NO	1.19	10.000	33.41	33.44	0.99	0.99	NO	164.0	82.0	0.249	
30	30 13C-2,3,4,6,7,8-HxCDF	1855930.1...	0.512	NO	1.07	10.000	34.02	34.01	1.01	1.01	NO	165.6	82.8	0.278	

Dataset: U:\WG12.PRO\Results\200223R2\200223R2-4.qld

Last Altered: Monday, February 24, 2020 08:17:48 Pacific Standard Time

Printed: Monday, March 02, 2020 10:36:56 Pacific Standard Time

Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

#	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	1544353.5...	0.530	NO	0.922	10.000	34.92	34.89	1.04	1.04	NO	159.2	79.6	0.322	
32	13C-1,2,3,4,6,7,8-HpCDF	1290016.0...	0.442	NO	0.767	10.000	36.68	36.63	1.09	1.09	NO	159.9	80.0	0.327	
33	13C-1,2,3,4,7,8,9-HpCDF	1004234.6...	0.439	NO	0.552	10.000	38.70	38.69	1.15	1.15	NO	172.9	86.5	0.454	
34	13C-OCDF	2296232.2...	0.875	NO	0.789	10.000	41.29	41.34	1.23	1.23	NO	276.7	69.2	0.232	
35	37Cl-2,3,7,8-TCDD	861578.688			1.18	10.000	25.74	25.75	1.03	1.03	NO	65.53	81.9	0.0445	
36	13C-1,2,3,4-TCDD	2235598.3...	0.785	NO	1.00	10.000	25.11	25.06	1.00	1.00	NO	200.0	100	0.153	
37	13C-1,2,3,4-TCDF	3252282.6...	0.781	NO	1.00	10.000	23.37	23.30	1.00	1.00	NO	200.0	100	0.197	
38	13C-1,2,3,4,6,9-HxCDF	2102809.0...	0.515	NO	1.00	10.000	33.71	33.71	1.00	1.00	NO	200.0	100	0.297	
39	Total Tetra-Dioxins				0.988	10.000	24.62		0.00		NO	18.11		0.0462	18.11
40	Total Penta-Dioxins				0.972	10.000	29.96		0.00		NO	84.51		0.0953	84.77
41	Total Hexa-Dioxins				0.921	10.000	33.63		0.00		NO	289.0		0.134	289.1
42	Total Hepta-Dioxins				0.923	10.000	37.64		0.00		NO	97.15		0.304	97.15
43	Total Tetra-Furans				0.802	10.000	23.61		0.00		NO	19.70		0.0480	19.82
44	1st Func. Penta-Furans				0.907	10.000	27.09		0.00		NO	0.06854		0.0229	0.06900
45	Total Penta-Furans				0.907	10.000	29.27		0.00		NO	191.4		0.113	192.1
46	Total Hexa-Furans				0.898	10.000	33.56		0.00		NO	426.0		0.202	426.2
47	Total Hepta-Furans				0.851	10.000	37.83		0.00		NO	219.3		0.322	219.6

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-4.qld

Last Altered: Monday, February 24, 2020 08:17:48 Pacific Standard Time

Printed: Monday, March 02, 2020 10:37:14 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	1 2,3,7,8-TCDD	1.99e5	2.28e6	0.739	NO	25.75	25.75	17.66	17.66
2	39 Total Tetra-Dioxins	5.14e3	2.28e6	0.824	NO	24.62	25.45	0.4561	0.4560

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	2 1,2,3,7,8-PeCDD	7.82e5	1.91e6	0.621	NO	30.83	30.82	84.45	84.44
2	40 Total Penta-Dioxins	0.00e0	1.91e6	0.809	YES	29.96	30.39	0.0000	0.1160
3	40 Total Penta-Dioxins	0.00e0	1.91e6	0.235	YES	29.96	29.74	0.0000	0.05900
4	40 Total Penta-Dioxins	0.00e0	1.91e6	3.127	YES	29.96	29.51	0.0000	0.04000
5	40 Total Penta-Dioxins	6.27e2	1.91e6	0.589	NO	29.96	28.58	0.06767	0.06800
6	40 Total Penta-Dioxins	0.00e0	1.91e6	1.212	YES	29.96	31.11	0.0000	0.03900

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	1.03e3	0.00e0	1.351	NO	33.63	32.74	0.1438	0.1440
2	5 1,2,3,7,8,9-HxCDD	6.90e5	1.54e6	1.212	NO	34.59	34.56	97.60	97.60
3	4 1,2,3,6,7,8-HxCDD	7.64e5	1.71e6	1.238	NO	34.28	34.30	97.25	97.25
4	3 1,2,3,4,7,8-HxCDD	7.17e5	1.42e6	1.239	NO	34.19	34.19	93.95	93.95
5	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.434	YES	33.63	33.51	0.0000	0.1360

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	5.67e5	1.27e6	1.019	NO	38.06	38.07	96.45	96.45
2	42 Total Hepta-Dioxins	4.11e3	1.27e6	1.099	NO	37.64	37.03	0.6985	0.6990

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-4.qld

Last Altered: Monday, February 24, 2020 08:17:48 Pacific Standard Time

Printed: Monday, March 02, 2020 10:37:14 Pacific Standard Time

Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	8 2,3,7,8-TCDF	2.19e5	2.78e6	0.765	NO	24.82	24.81	19.70	19.70
2	43 Total Tetra-Furans	0.00e0	2.78e6	0.587	YES	23.61	23.83	0.0000	0.1190

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	7.93e2	0.00e0	1.675	NO	27.09	26.87	0.06854	0.06900

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	0.00e0	0.00e0	1.788	YES	29.27	29.17	0.0000	0.07300
2	45 Total Penta-Furans	0.00e0	0.00e0	1.224	YES	29.27	29.11	0.0000	0.06400
3	45 Total Penta-Furans	3.73e3	0.00e0	1.543	NO	29.27	28.52	0.3226	0.3230
4	45 Total Penta-Furans	0.00e0	0.00e0	1.317	YES	29.27	31.44	0.0000	0.4170
5	45 Total Penta-Furans	0.00e0	0.00e0	1.242	YES	29.27	30.82	0.0000	0.05900
6	10 2,3,4,7,8-PeCDF	1.14e6	2.51e6	1.545	NO	30.53	30.51	95.83	95.83
7	45 Total Penta-Furans	9.75e3	0.00e0	1.581	NO	29.27	29.78	0.8429	0.8430
8	9 1,2,3,7,8-PeCDF	1.11e6	2.59e6	1.555	NO	29.53	29.52	94.24	94.24
9	45 Total Penta-Furans	2.34e3	0.00e0	1.534	NO	29.27	29.32	0.2024	0.2020

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	6.96e5	1.54e6	1.218	NO	34.89	34.91	105.1	105.1
2	13 2,3,4,6,7,8-HxCDF	8.93e5	1.86e6	1.211	NO	34.04	34.02	107.1	107.1
3	12 1,2,3,6,7,8-HxCDF	9.38e5	2.05e6	1.221	NO	33.45	33.46	108.7	108.7
4	11 1,2,3,4,7,8-HxCDF	8.11e5	1.79e6	1.208	NO	33.33	33.34	105.0	105.0
5	46 Total Hexa-Furans	0.00e0	0.00e0	1.031	YES	33.56	32.34	0.0000	0.2240
6	46 Total Hexa-Furans	1.73e3	0.00e0	1.128	NO	33.56	32.18	0.2132	0.2130

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-4.qld

Last Altered: Monday, February 24, 2020 08:17:48 Pacific Standard Time

Printed: Monday, March 02, 2020 10:37:14 Pacific Standard Time

Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	5.42e5	1.00e6	0.999	NO	38.69	38.71	110.2	110.2
2	47 Total Hepta-Furans	0.00e0	0.00e0	1.575	YES	37.83	37.21	0.0000	0.3420
3	15 1,2,3,4,6,7,8-HpCDF	5.99e5	1.29e6	1.004	NO	36.67	36.64	109.1	109.1

Dataset: Untitled

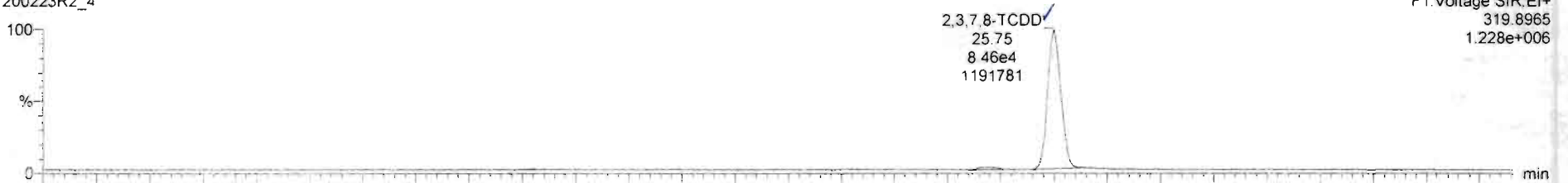
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

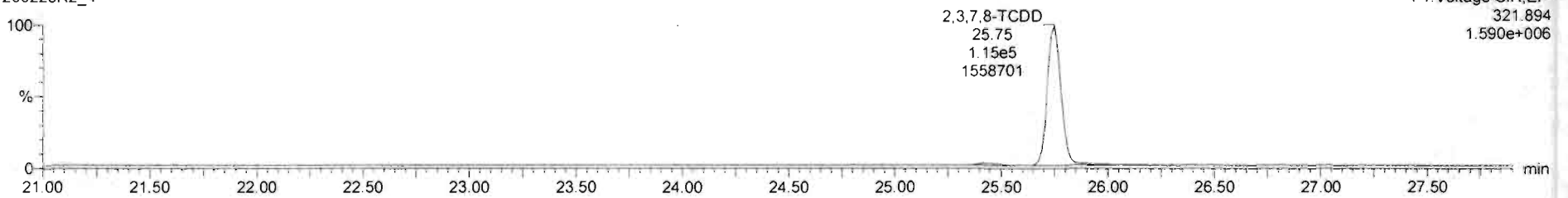
Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

2,3,7,8-TCDD

200223R2_4

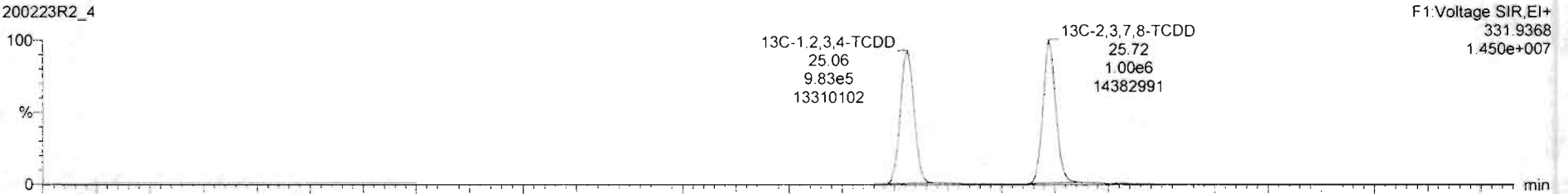


200223R2_4

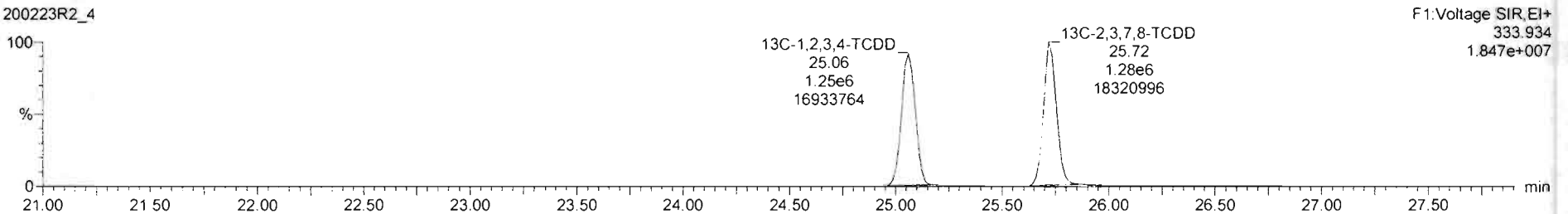


13C-2,3,7,8-TCDD

200223R2_4



200223R2_4



Dataset: Untitled

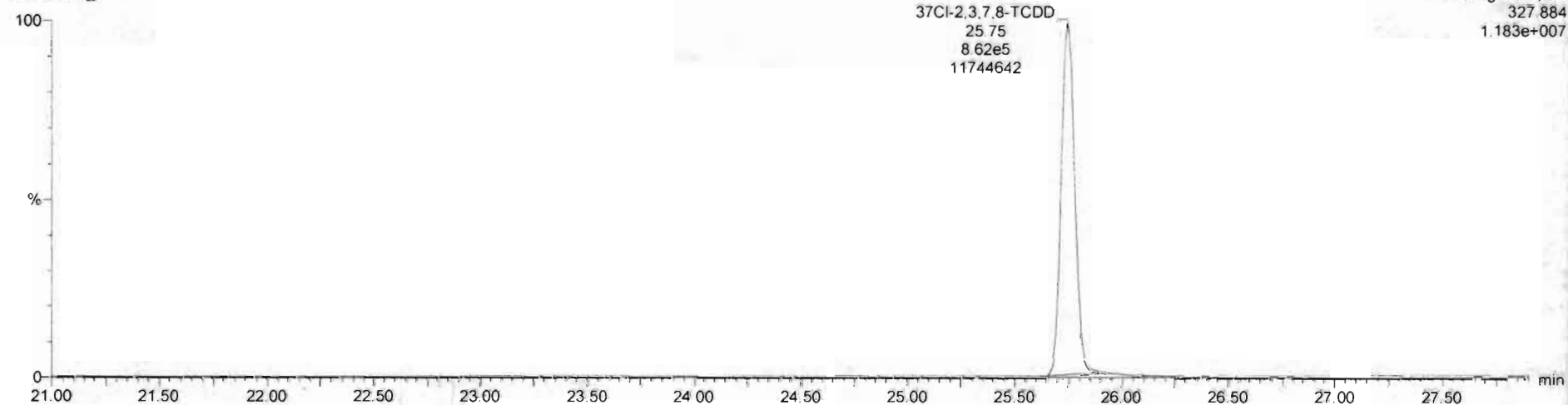
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

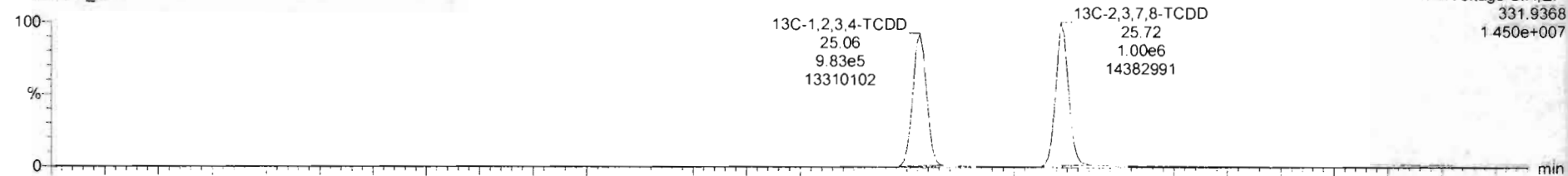
37Cl-2,3,7,8-TCDD

200223R2_4

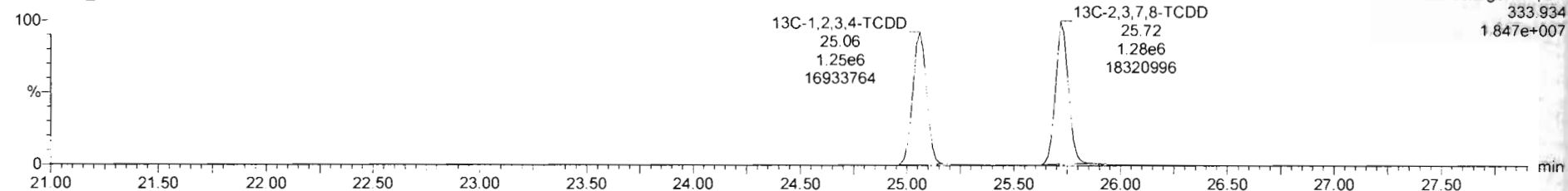


13C-1,2,3,4-TCDD

200223R2_4



200223R2_4



Dataset: Untitled

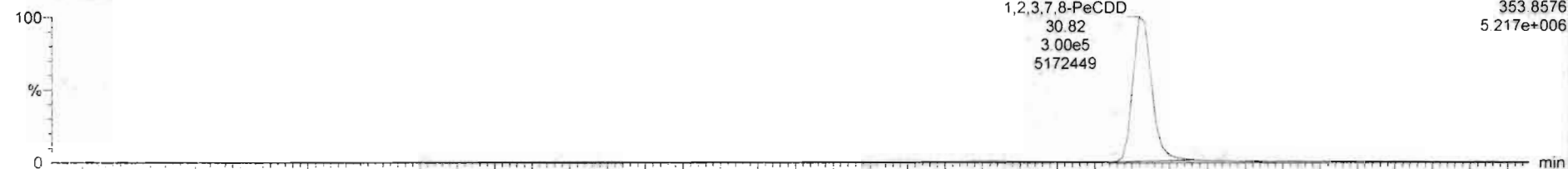
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

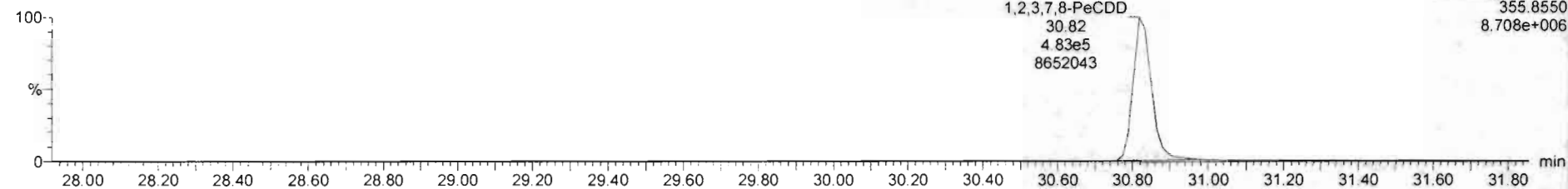
Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDD

200223R2_4

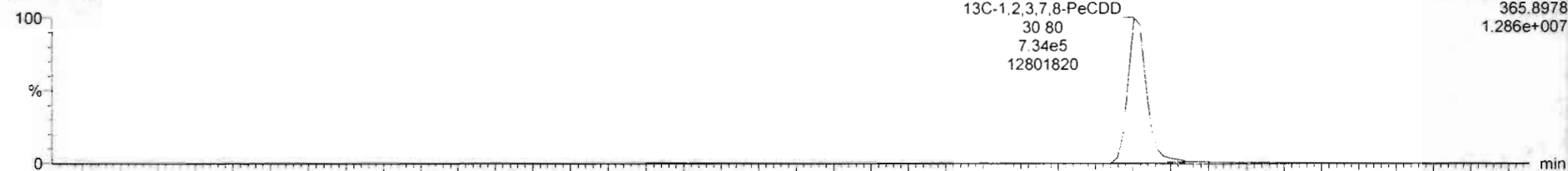


200223R2_4

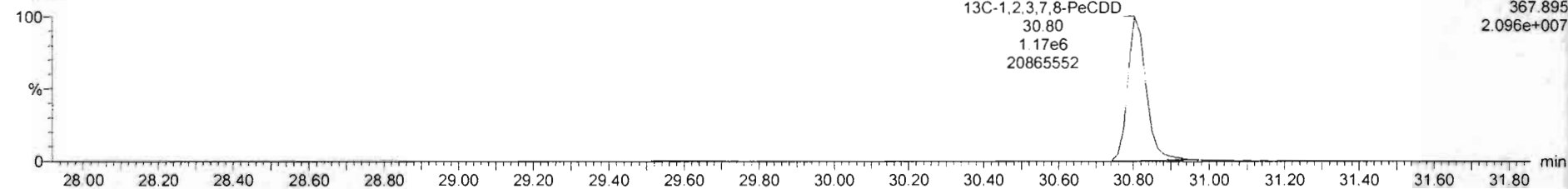


13C-1,2,3,7,8-PeCDD

200223R2_4



200223R2_4



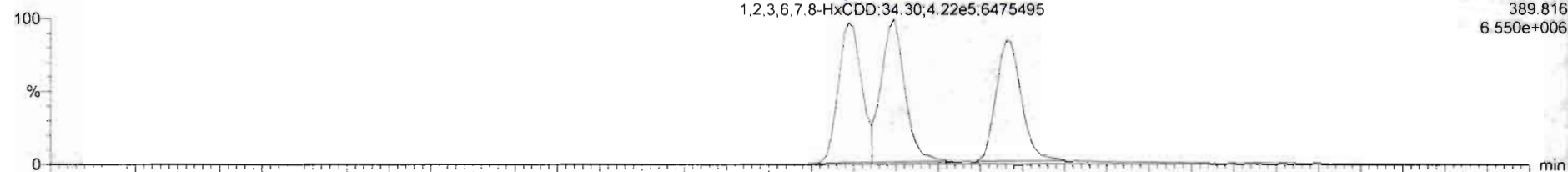
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

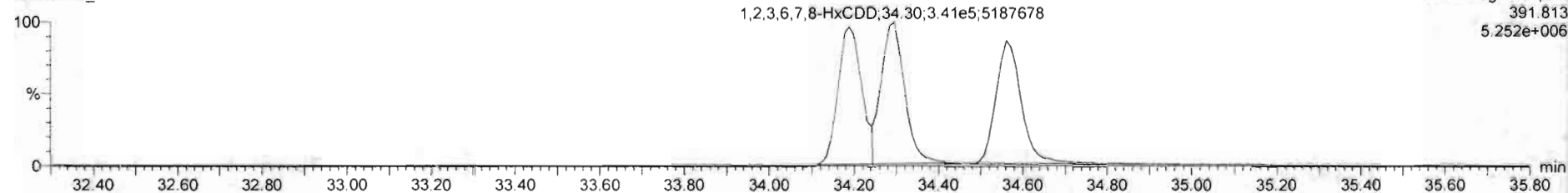
Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

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

200223R2_4

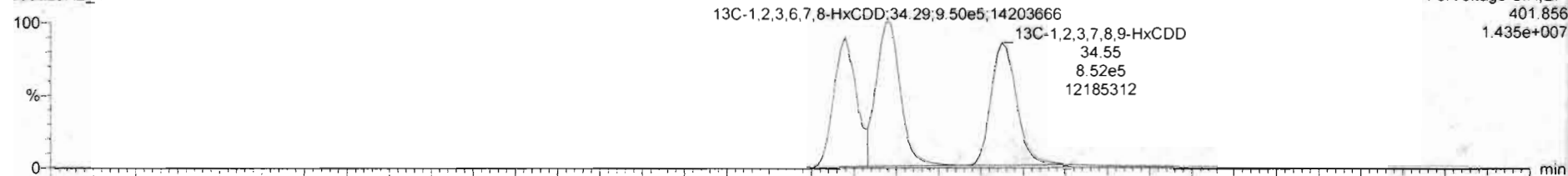


200223R2_4

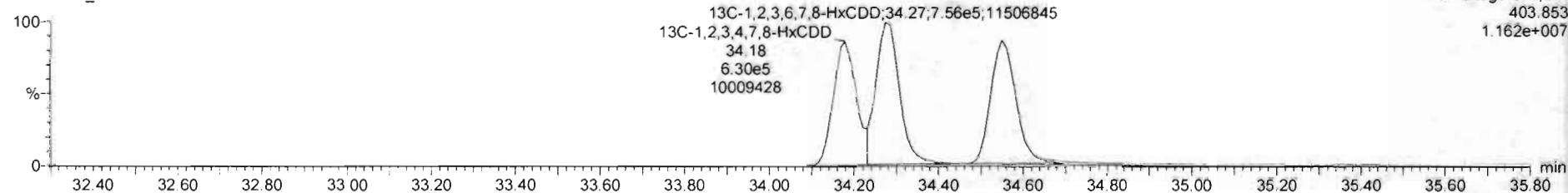


13C-1,2,3,4,7,8-HxCDD

200223R2_4



200223R2_4



Dataset: Untitled

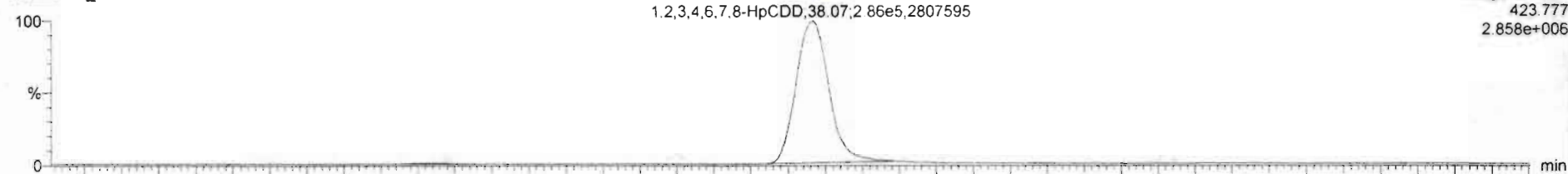
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

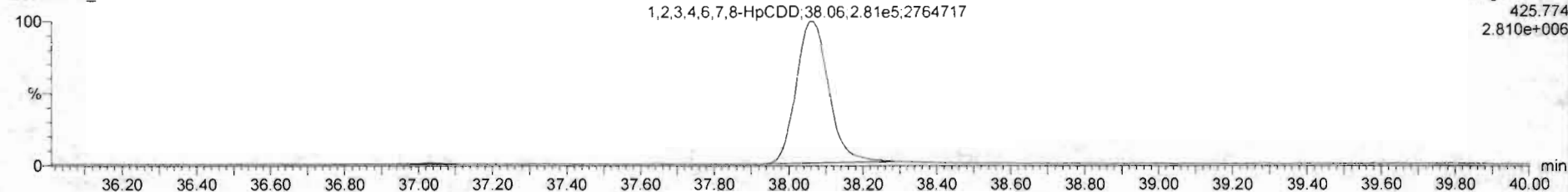
Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

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

200223R2_4

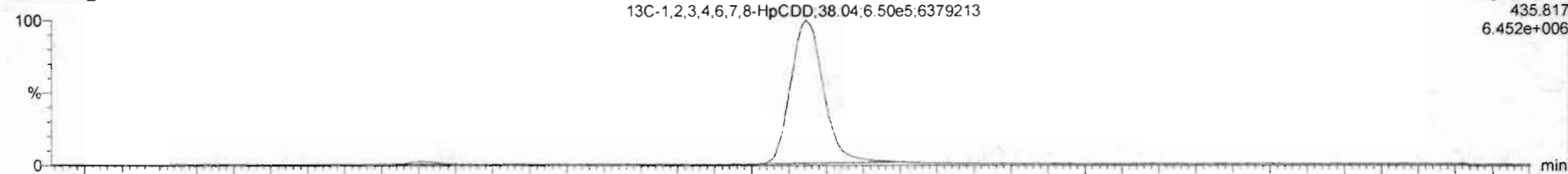


200223R2_4

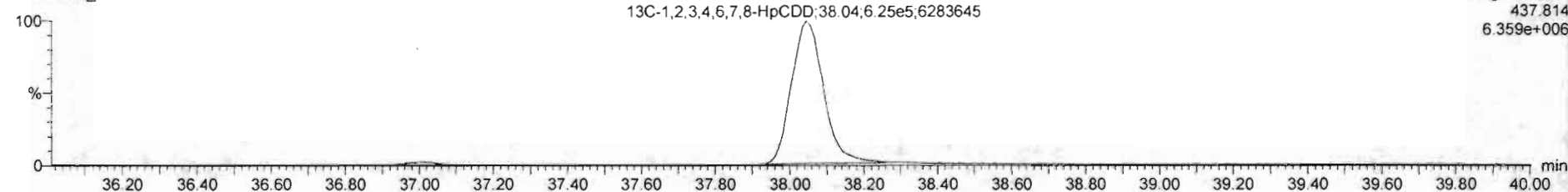


13C-1,2,3,4,6,7,8-HpCDD

200223R2_4



200223R2_4

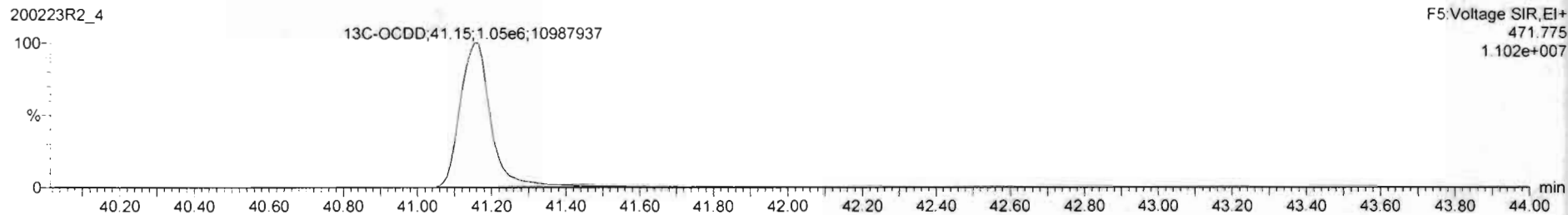
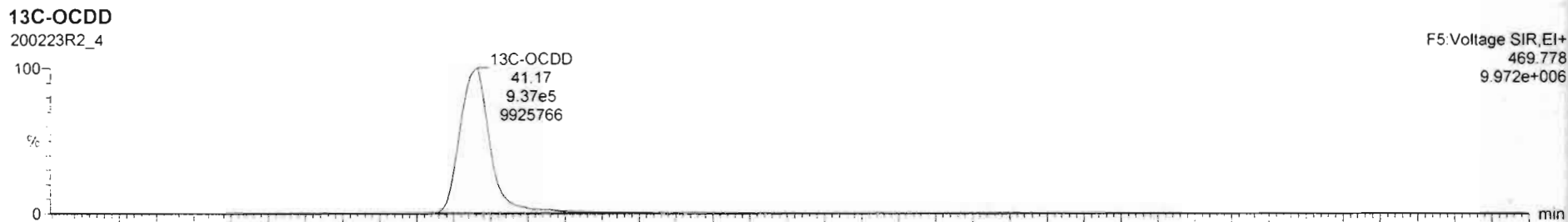
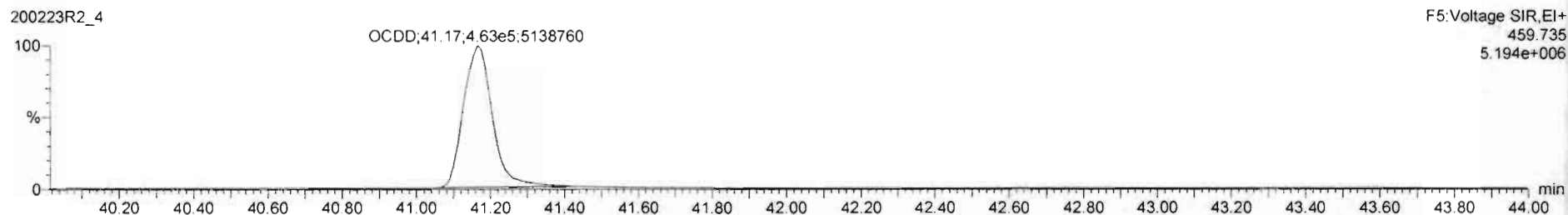
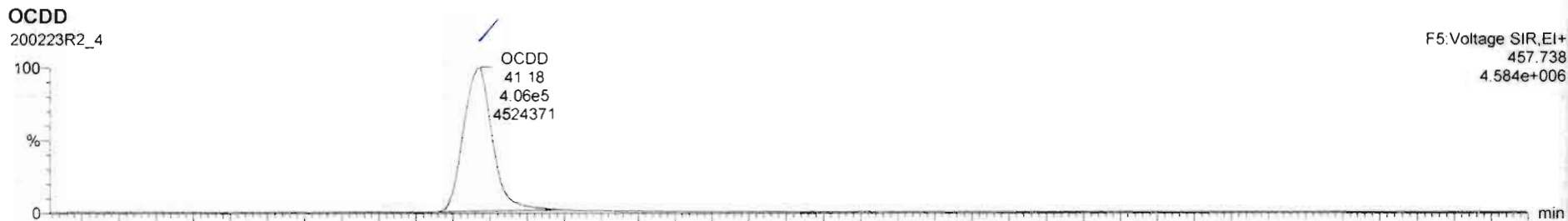


Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR



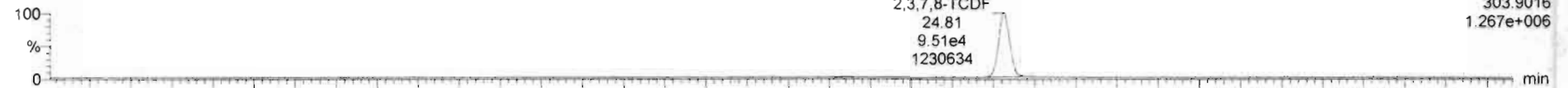
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

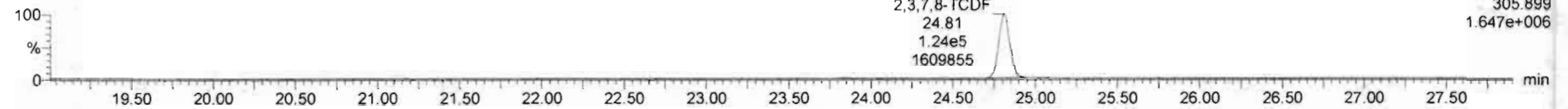
Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

2,3,7,8-TCDF

200223R2_4

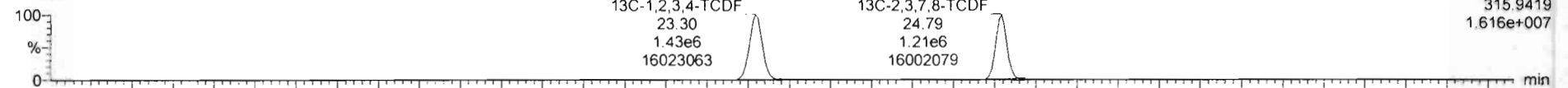


200223R2_4

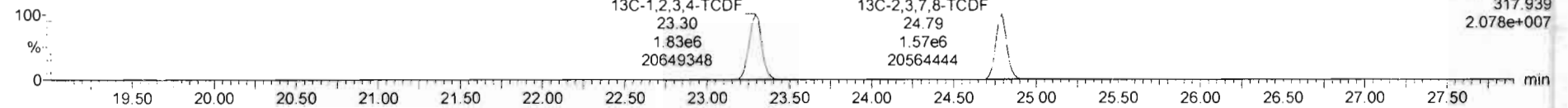


13C-2,3,7,8-TCDF

200223R2_4

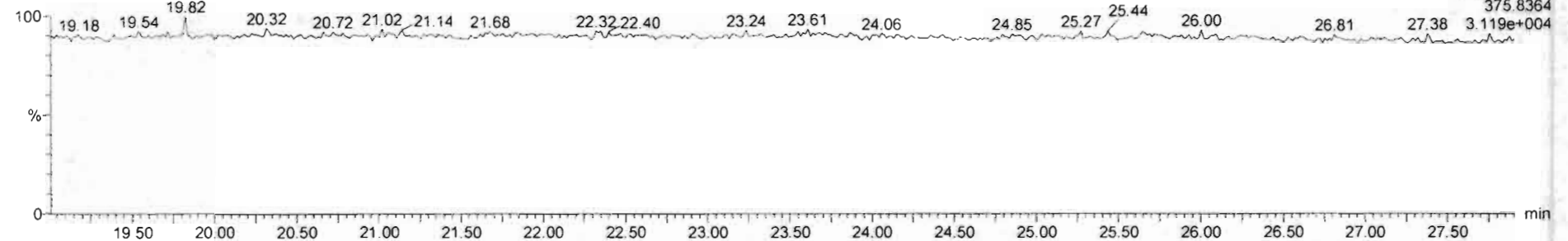


200223R2_4



DPE1

200223R2_4



Dataset: Untitled

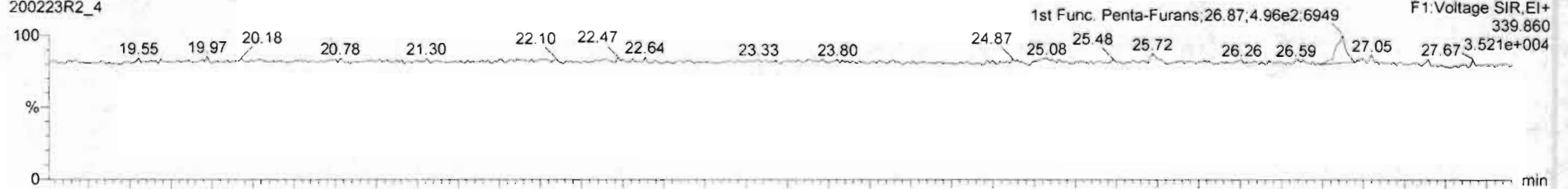
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

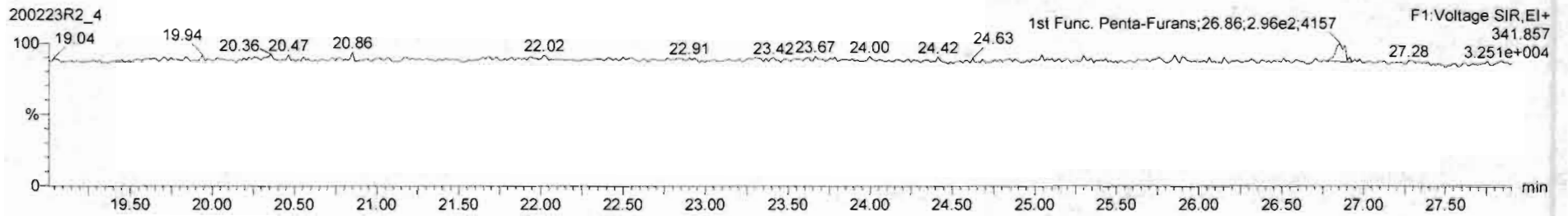
Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans

200223R2_4

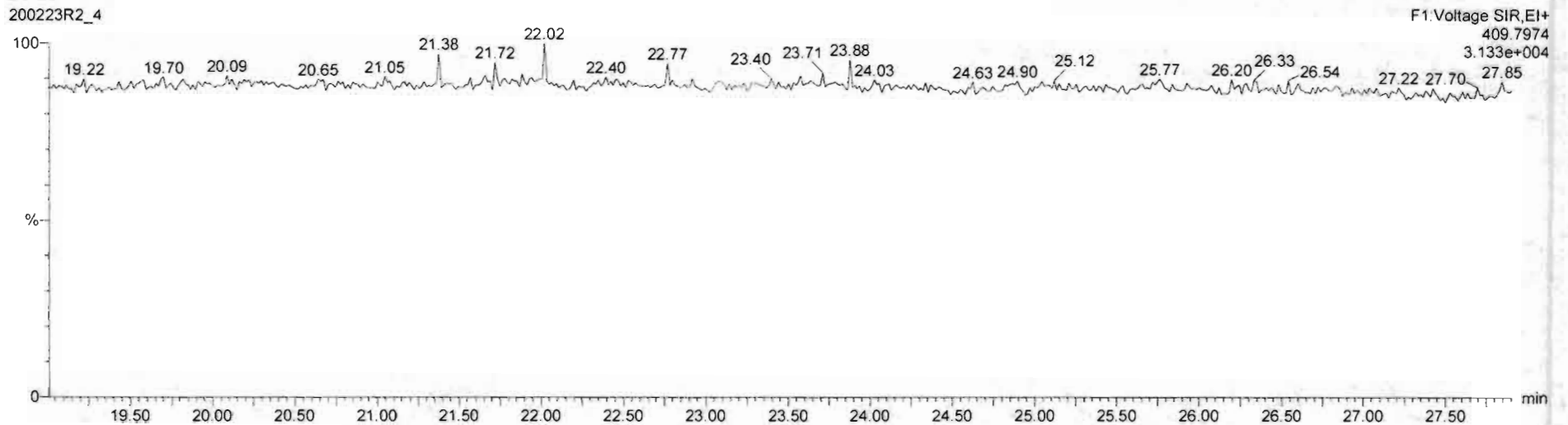


200223R2_4



DPE6

200223R2_4



Dataset: Untitled

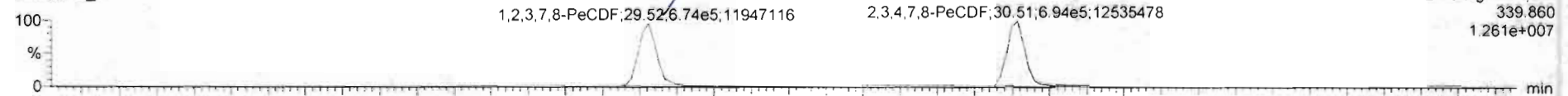
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

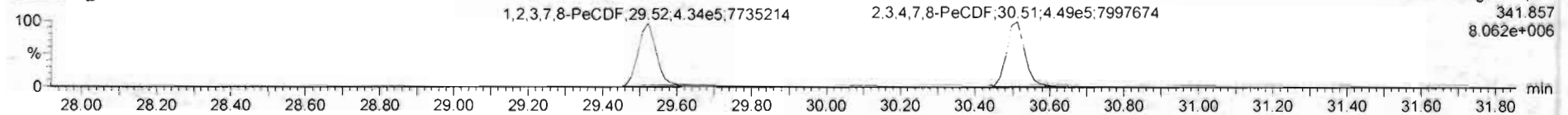
Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDF

200223R2_4

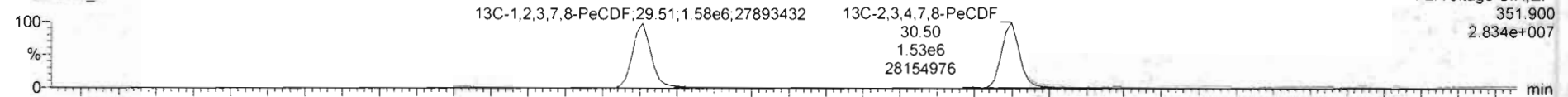


200223R2_4

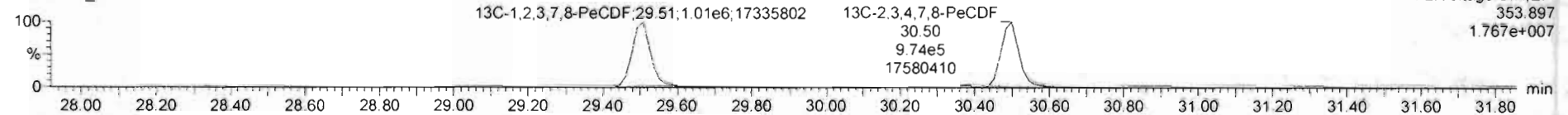


13C-1,2,3,7,8-PeCDF

200223R2_4

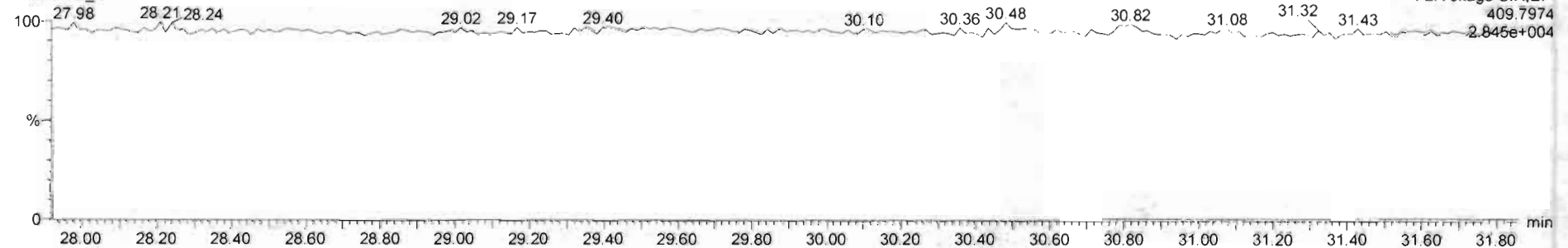


200223R2_4



DPE2

200223R2_4



Dataset: Untitled

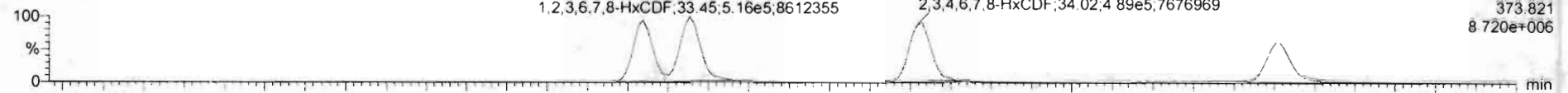
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

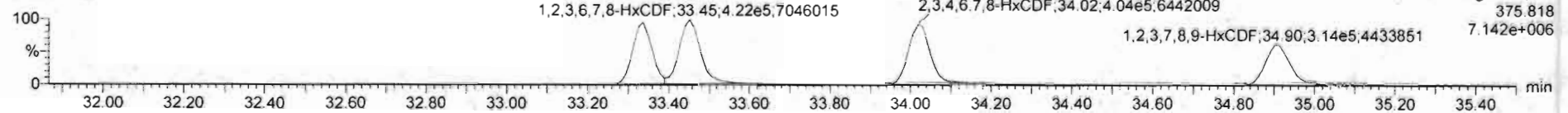
Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

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

200223R2_4

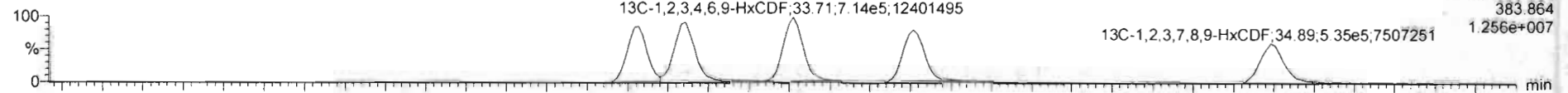


200223R2_4

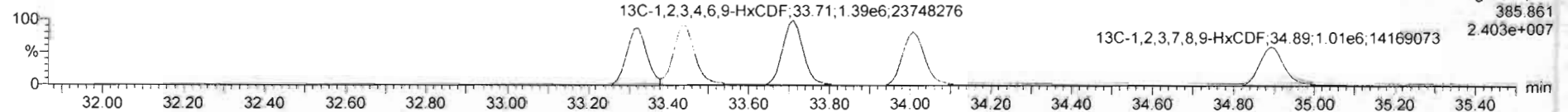


13C-1,2,3,4,7,8-HxCDF

200223R2_4

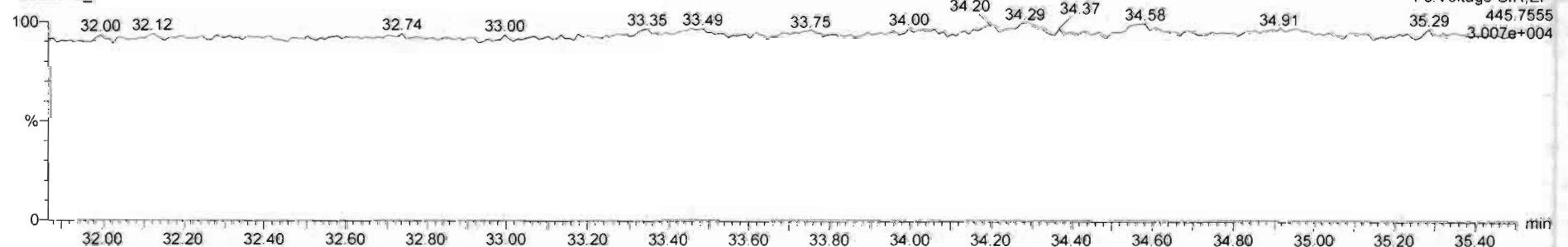


200223R2_4



DPE3

200223R2_4



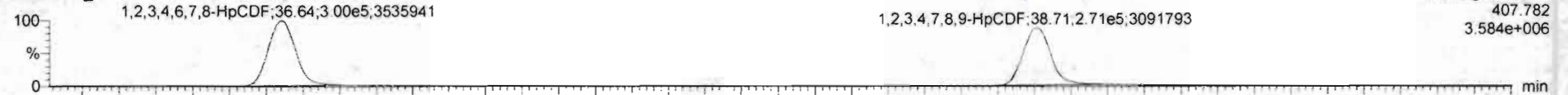
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

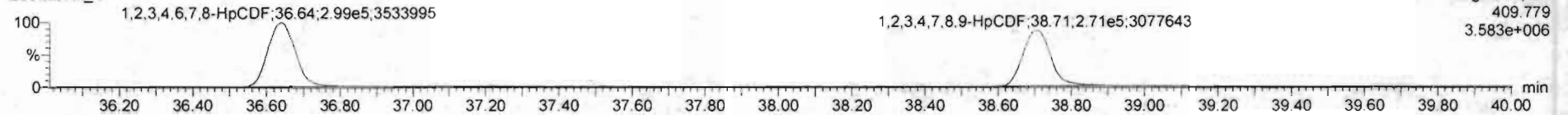
Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

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

200223R2_4



200223R2_4

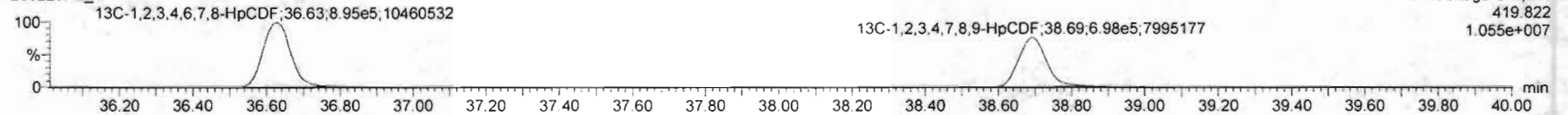


13C-1,2,3,4,6,7,8-HpCDF

200223R2_4

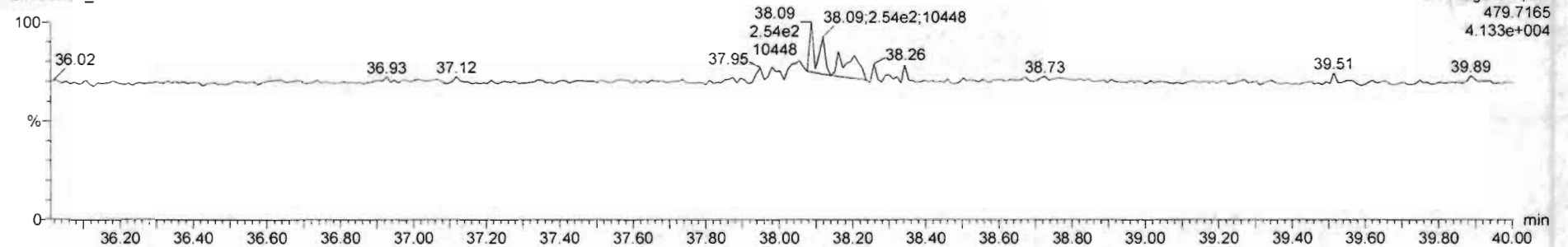


200223R2_4



DPE4

200223R2_4

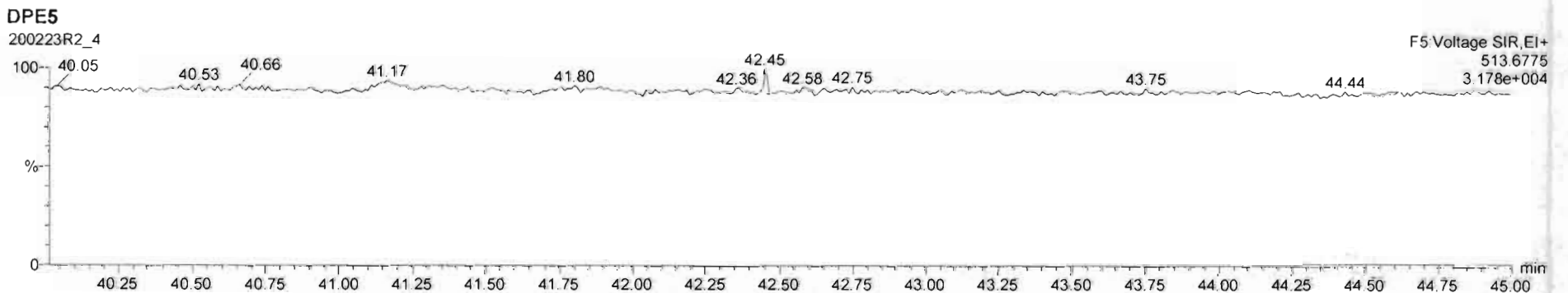
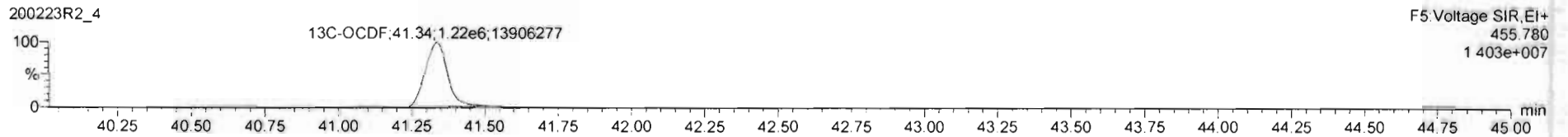
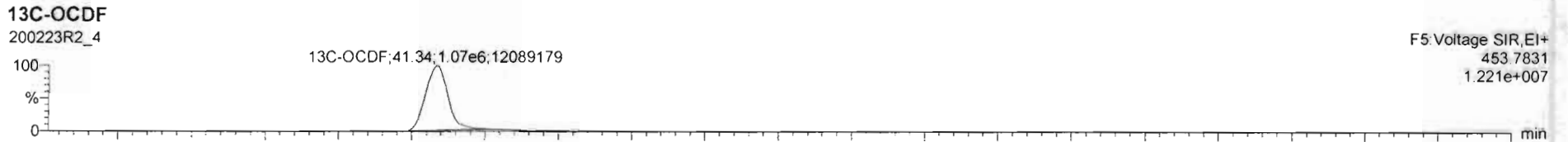
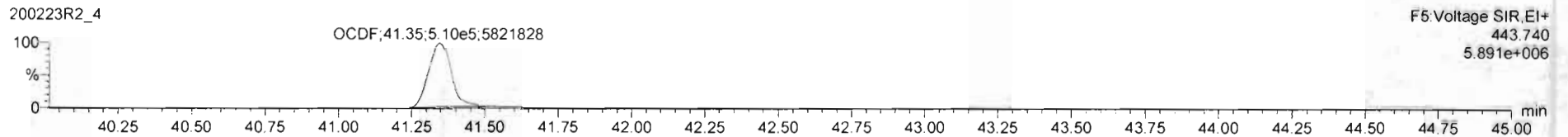
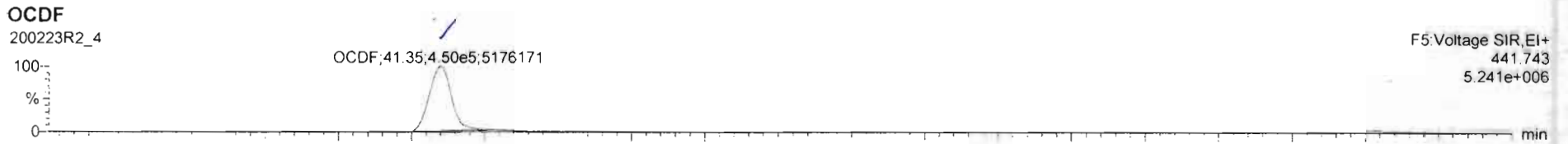


Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR

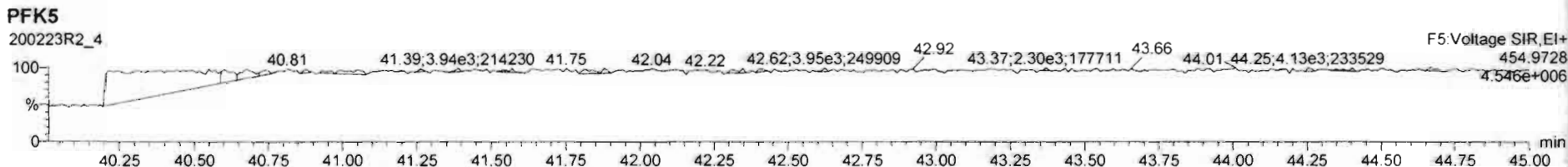
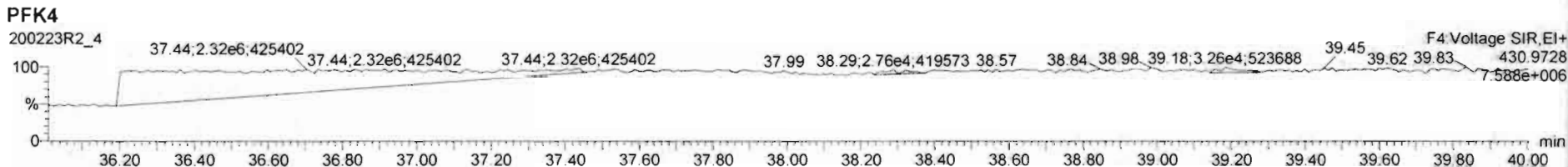
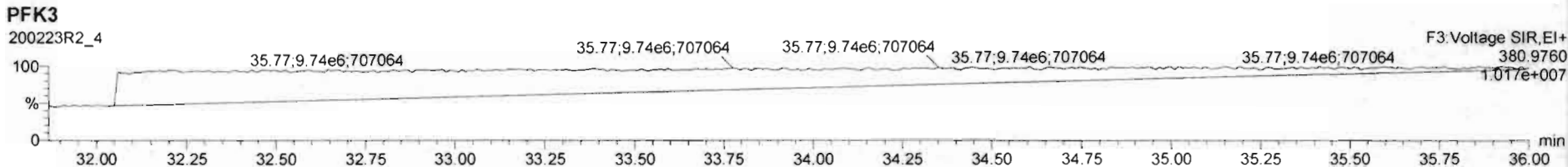
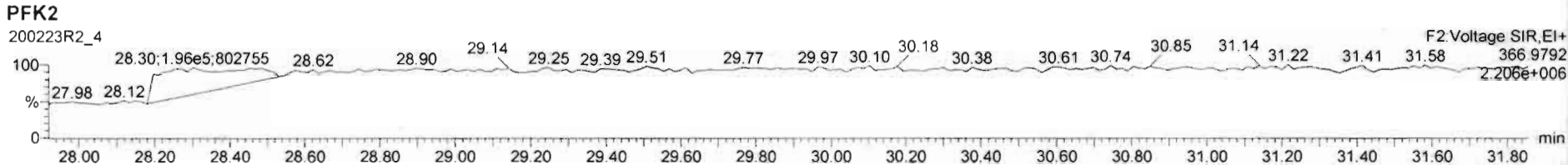
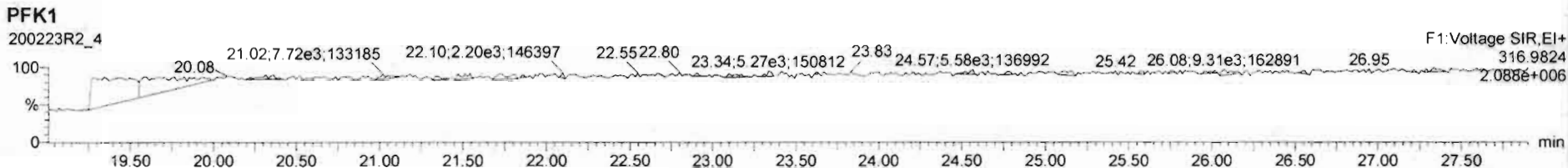


Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_4, Date: 23-Feb-2020, Time: 14:51:01, ID: B0B0026-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200307R1\200307R1-4.qld

Last Altered: Tuesday, March 10, 2020 16:09:45 Pacific Daylight Time
Printed: Tuesday, March 10, 2020 16:11:55 Pacific Daylight Time

GRB 03/10/2020

C7 03/24/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.983	10.000	25.796		1.001				0.0643	
2	2 1,2,3,7,8-PeCDD			NO	0.921	10.000	30.994		1.001				0.0567	
3	3 1,2,3,4,7,8-HxCDD			NO	1.13	10.000	34.370		1.000				0.0808	
4	4 1,2,3,6,7,8-HxCDD			NO	0.984	10.000	34.456		1.000				0.0826	
5	5 1,2,3,7,8,9-HxCDD			NO	0.967	10.000	34.732		1.000				0.0950	
6	6 1,2,3,4,6,7,8-HpCDD			NO	1.01	10.000	38.184		1.000				0.177	
7	7 OCDD	1.13e3	0.87	NO	1.05	10.000	41.208	41.25	1.000	1.001	0.46346		0.169	0.463
8	8 2,3,7,8-TCDF			NO	0.915	10.000	24.817		1.001				0.0447	
9	9 1,2,3,7,8-PeCDF			NO	0.959	10.000	29.650		1.001				0.0473	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.000	30.683		1.001				0.0443	
11	11 1,2,3,4,7,8-HxCDF			NO	1.04	10.000	33.497		1.000				0.0536	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.000	33.624		1.000				0.0521	
13	13 2,3,4,6,7,8-HxCDF			NO	1.09	10.000	34.223		1.001				0.0561	
14	14 1,2,3,7,8,9-HxCDF	4.12e2	1.07	NO	1.03	10.000	35.063	35.09	1.000	1.001	0.088359		0.0420	0.0884
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.000	36.804		1.001				0.100	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.21	10.000	38.812		1.000				0.131	
17	17 OCDF	7.15e2	1.02	NO	0.947	10.000	41.389	41.44	1.000	1.001	0.25513		0.143	0.255
18	18 13C-2,3,7,8-TCDD	1.30e6	0.78	NO	1.18	10.000	25.781	25.76	1.029	1.028	162.91	81.5	0.241	
19	19 13C-1,2,3,7,8-PeCDD	1.04e6	0.64	NO	0.864	10.000	30.974	30.97	1.236	1.236	178.92	89.5	0.315	
20	20 13C-1,2,3,4,7,8-HxCDD	7.23e5	1.27	NO	0.754	10.000	34.352	34.36	1.014	1.014	151.81	75.9	0.338	
21	21 13C-1,2,3,6,7,8-HxCDD	8.87e5	1.25	NO	0.925	10.000	34.460	34.46	1.017	1.017	151.75	75.9	0.276	
22	22 13C-1,2,3,7,8,9-HxCDD	8.00e5	1.24	NO	0.829	10.000	34.721	34.72	1.025	1.025	152.74	76.4	0.308	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.67e5	1.07	NO	0.598	10.000	38.170	38.17	1.127	1.127	150.21	75.1	0.404	
24	24 13C-OCDD	9.28e5	0.89	NO	0.571	10.000	41.311	41.21	1.219	1.216	257.33	64.3	0.294	
25	25 13C-2,3,7,8-TCDF	1.80e6	0.78	NO	1.09	10.000	24.801	24.79	0.990	0.989	154.23	77.1	0.252	
26	26 13C-1,2,3,7,8-PeCDF	1.52e6	1.59	NO	0.876	10.000	29.643	29.63	1.183	1.182	161.57	80.8	0.427	
27	27 13C-2,3,4,7,8-PeCDF	1.51e6	1.59	NO	0.844	10.000	30.656	30.65	1.223	1.223	166.79	83.4	0.444	
28	28 13C-1,2,3,4,7,8-HxCDF	1.04e6	0.51	NO	1.00	10.000	33.502	33.50	0.989	0.989	165.08	82.5	0.285	
29	29 13C-1,2,3,6,7,8-HxCDF	1.15e6	0.52	NO	1.12	10.000	33.610	33.61	0.992	0.992	163.24	81.6	0.255	
30	30 13C-2,3,4,6,7,8-HxCDF	1.08e6	0.52	NO	1.04	10.000	34.189	34.19	1.009	1.009	164.45	82.2	0.275	
31	31 13C-1,2,3,7,8,9-HxCDF	9.07e5	0.52	NO	0.873	10.000	35.060	35.06	1.035	1.035	164.55	82.3	0.326	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-4.qld

Last Altered: Tuesday, March 10, 2020 16:09:45 Pacific Daylight Time

Printed: Tuesday, March 10, 2020 16:11:04 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.39e5	0.45	NO	0.771	10.000	36.771	36.77	1.085	1.085	151.88	75.9	0.325	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.97e5	0.45	NO	0.519	10.000	38.851	38.81	1.147	1.146	151.48	75.7	0.482	
34	34 13C-OCDF	1.18e6	0.91	NO	0.696	10.000	41.491	41.39	1.225	1.222	269.37	67.3	0.286	
35	35 37Cl-2,3,7,8-TCDD	4.94e5			1.17	10.000	25.791	25.78	1.029	1.029	62.396	78.0	0.0423	
36	36 13C-1,2,3,4-TCDD	1.35e6	0.80	NO	1.00	10.000	25.050	25.06	1.000	1.000	200.00	100	0.285	
37	37 13C-1,2,3,4-TCDF	2.15e6	0.79	NO	1.00	10.000	23.190	23.21	1.000	1.000	200.00	100	0.274	
38	38 13C-1,2,3,4,6,9-HxCDF	1.26e6	0.52	NO	1.00	10.000	33.880	33.88	1.000	1.000	200.00	100	0.285	
39	39 Total Tetra-Dioxins				0.983	10.000	24.620		0.000				0.0364	
40	40 Total Penta-Dioxins				0.921	10.000	29.960		0.000				0.0242	
41	41 Total Hexa-Dioxins				0.984	10.000	33.635		0.000				0.0487	
42	42 Total Hepta-Dioxins				1.01	10.000	37.640		0.000				0.0956	
43	43 Total Tetra-Furans				0.915	10.000	23.610		0.000				0.0211	
44	44 1st Func. Penta-Furans				0.959	10.000	27.090		0.000				0.0146	
45	45 Total Penta-Furans				0.959	10.000	29.275		0.000				0.0198	
46	46 Total Hexa-Furans				1.09	10.000	33.555		0.000		0.088359		0.0294	0.119
47	47 Total Hepta-Furans				1.05	10.000	37.835		0.000				0.0552	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-4.qld

Last Altered: Tuesday, March 10, 2020 16:09:45 Pacific Daylight Time

Printed: Tuesday, March 10, 2020 16:11:04 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-4.qld

Last Altered: Tuesday, March 10, 2020 16:09:45 Pacific Daylight Time

Printed: Tuesday, March 10, 2020 16:11:04 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.09	4.217e3	4.767e3	2.129e2	1.986e2	1.07	NO	4.115e2	0.088359	0.088359	0.0420
2	Total Hexa-Furans	35.12	4.010e3	3.014e3	9.830e1	7.695e1	1.28	NO	0.000e0	0.00000	0.030737	0.0294

Hepta-Furans

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

Dataset: Untitled

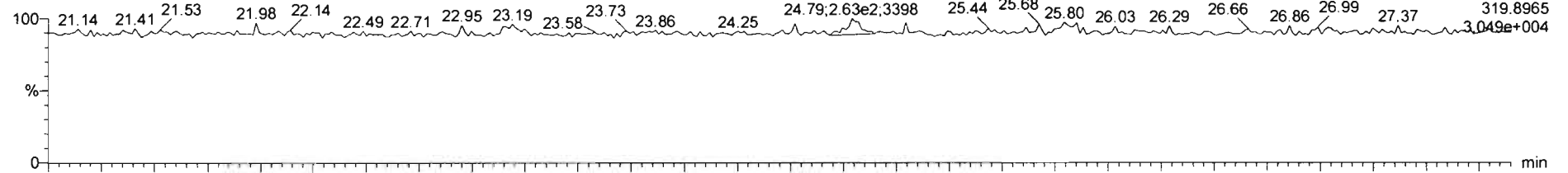
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

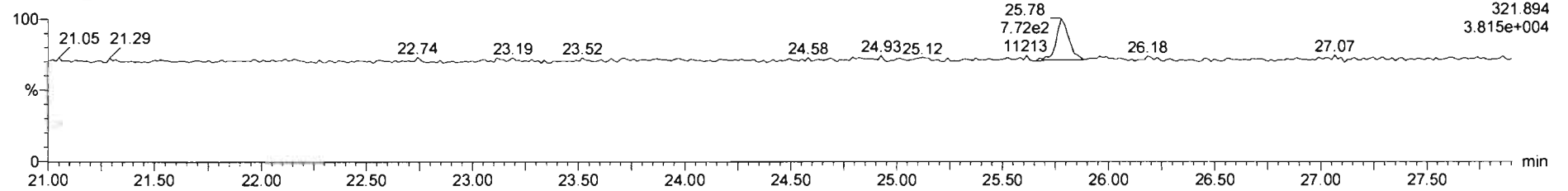
Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200307R1_4

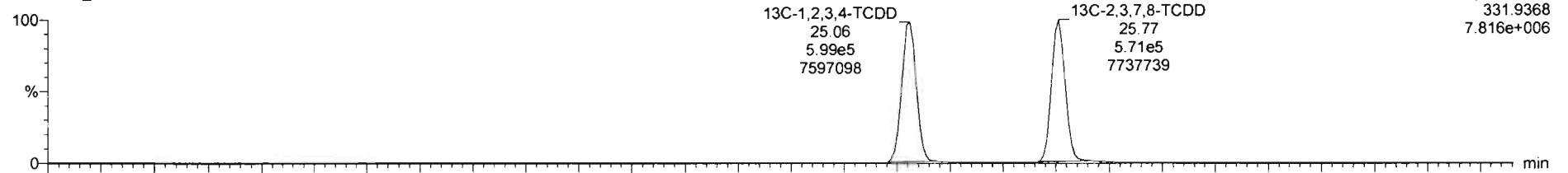


200307R1_4

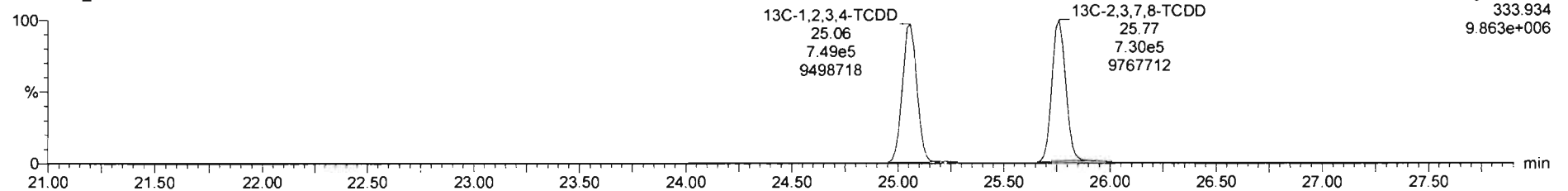


13C-2,3,7,8-TCDD

200307R1_4



200307R1_4



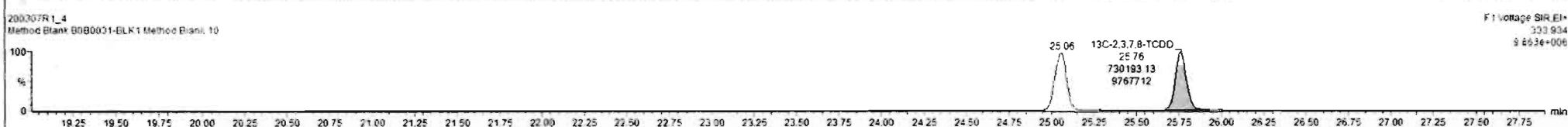
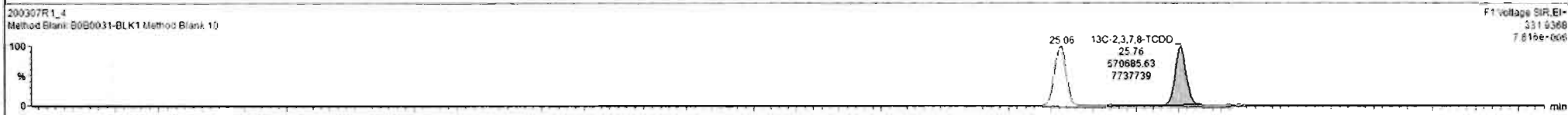
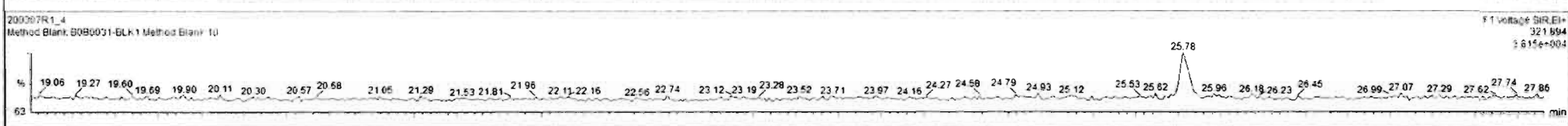
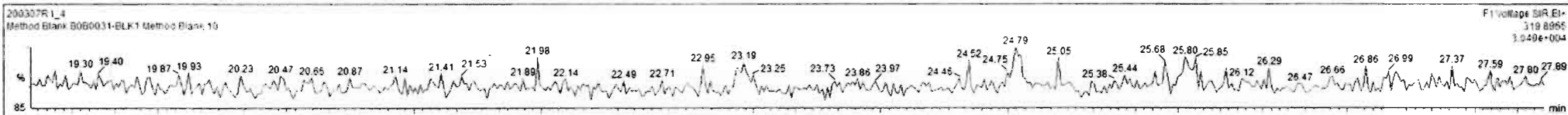
TargetLynx - 200307R1_4.qtd - [Chromatogram]

File Edit View Display Processing Window Help

200307R1_4 - B0B0031-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	w/vol	RT	PRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	1.26e6	0.52	NO	1.0000	10.000	33.88	1.000	200	100	0.285	
39 Total Tetra-Dioxins				0.9635	10.000					0.0364	
40 Total Penta-Dioxins				0.9212	10.000			0.000		0.0242	0.9687
41 Total Hexa-Dioxins				0.9877	10.000					0.0267	

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



Dataset: Untitled

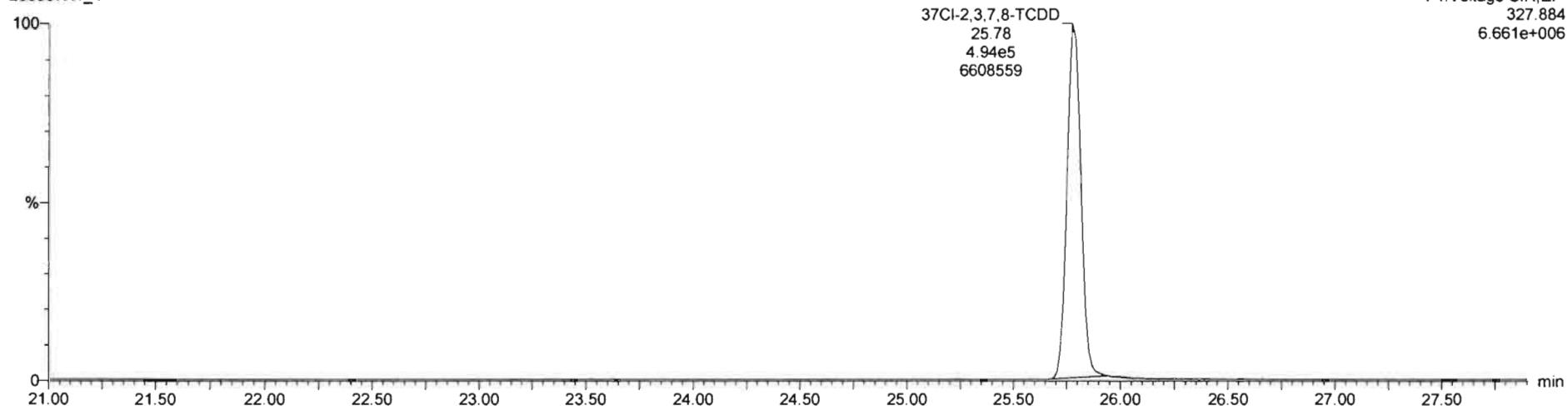
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

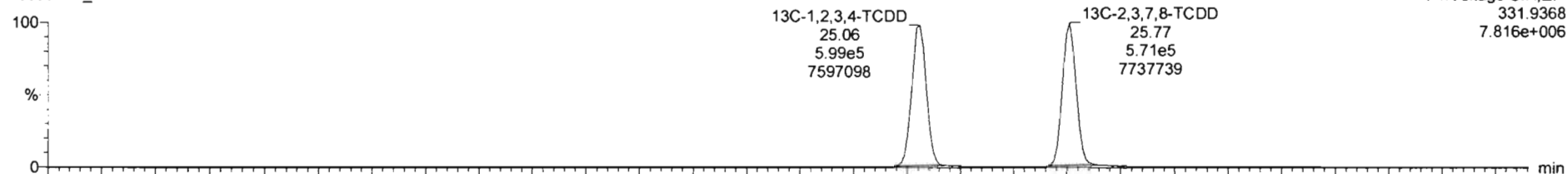
37Cl-2,3,7,8-TCDD

200307R1_4

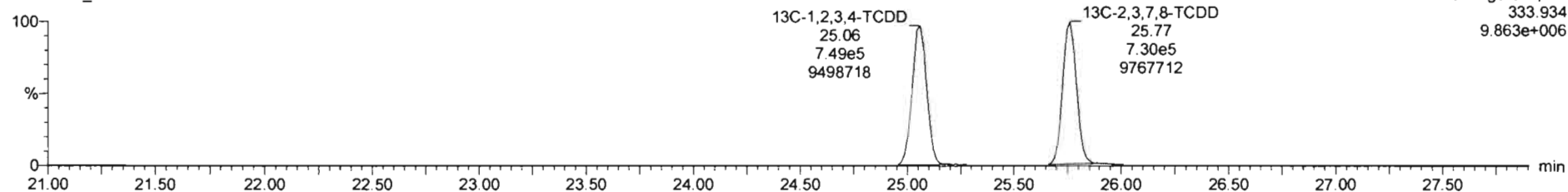


13C-1,2,3,4-TCDD

200307R1_4



200307R1_4



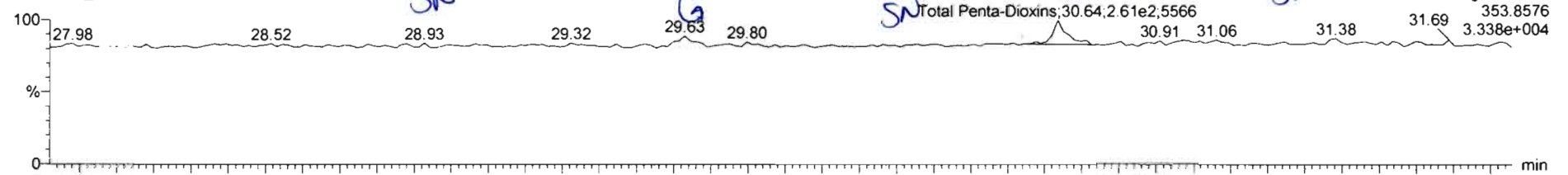
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

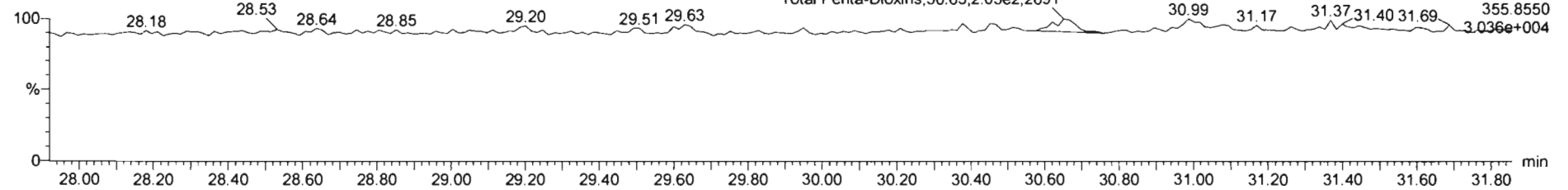
Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200307R1_4

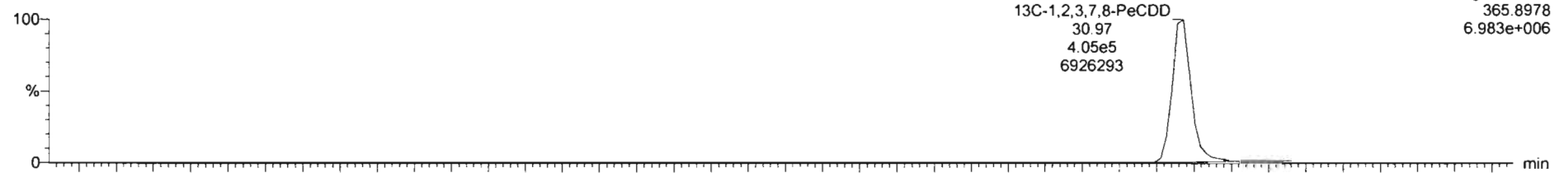


200307R1_4

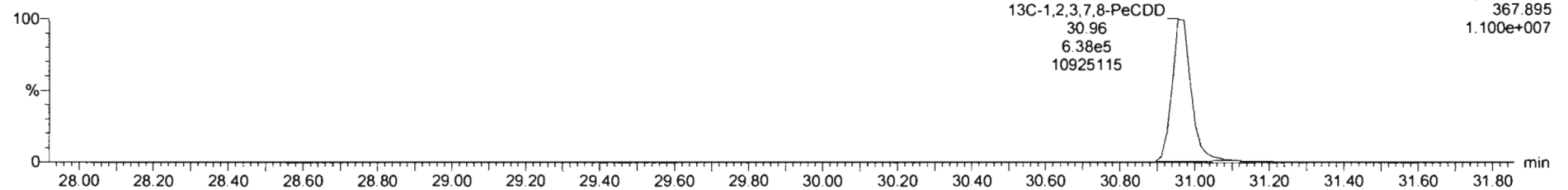


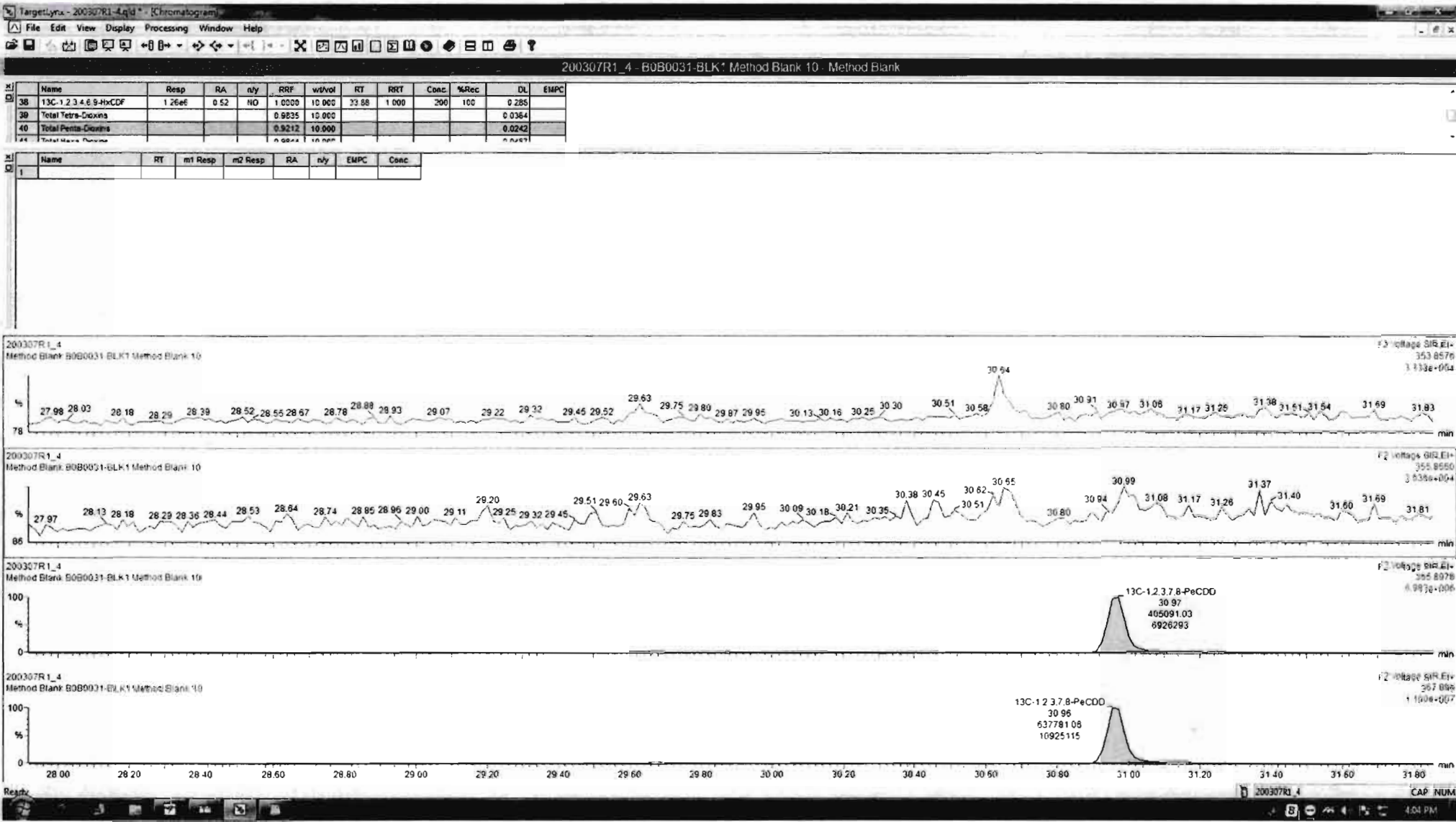
13C-1,2,3,7,8-PeCDD

200307R1_4



200307R1_4





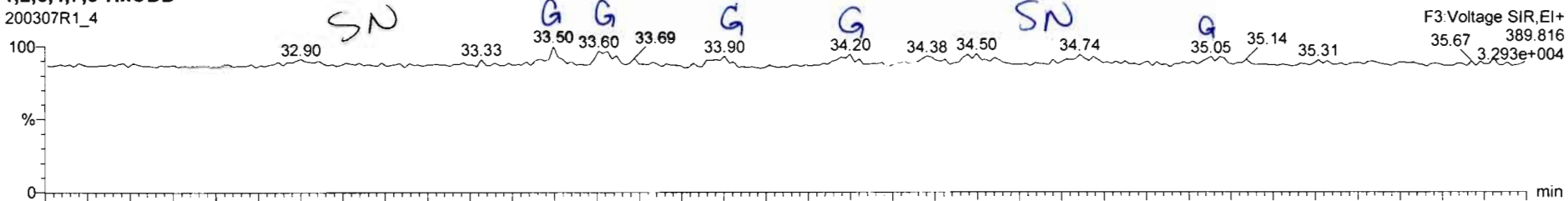
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

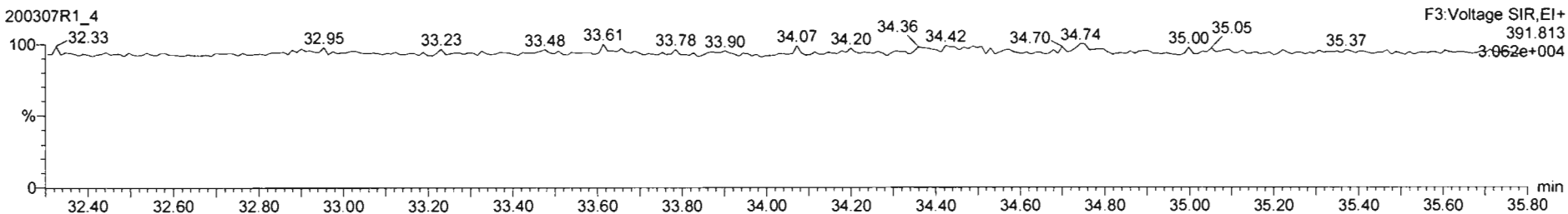
Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

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

200307R1_4

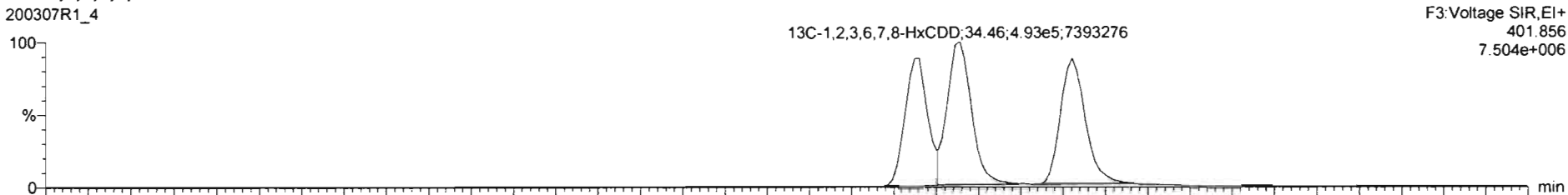


200307R1_4

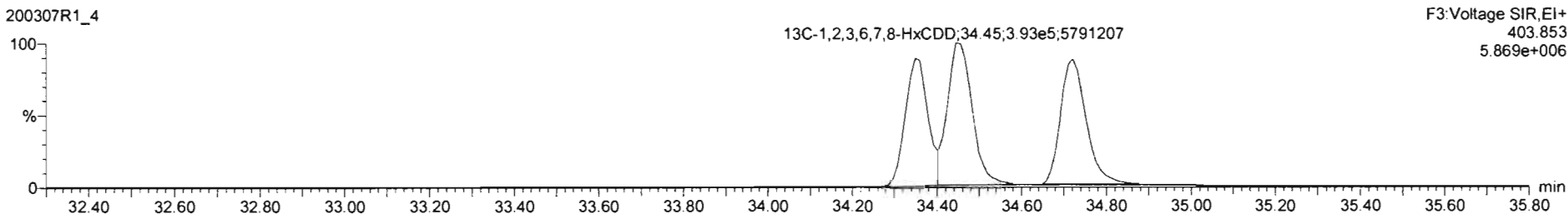


13C-1,2,3,4,7,8-HxCDD

200307R1_4



200307R1_4

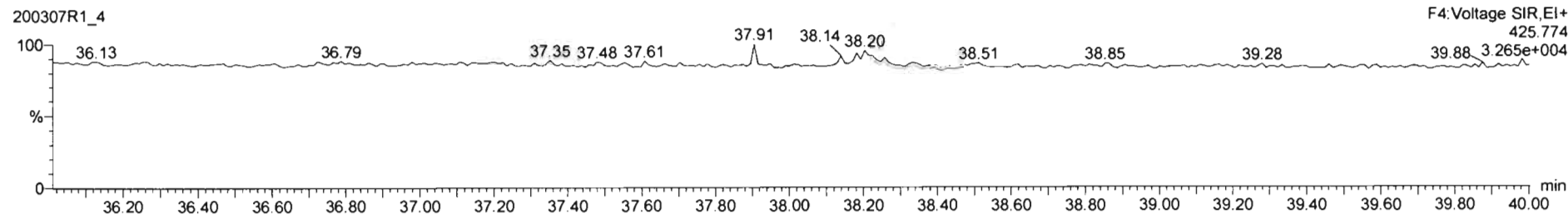
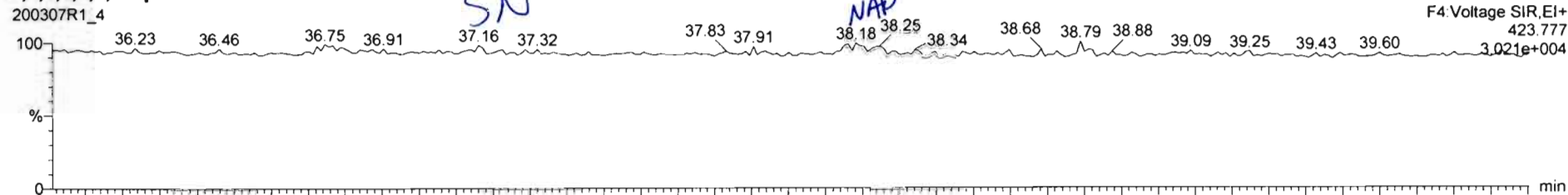


Dataset: Untitled

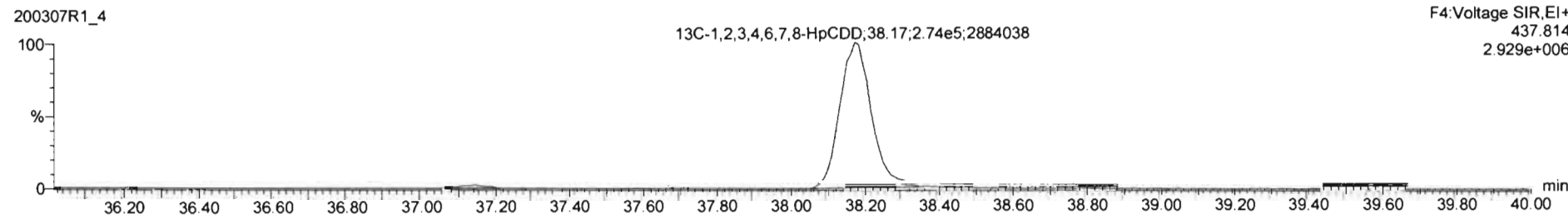
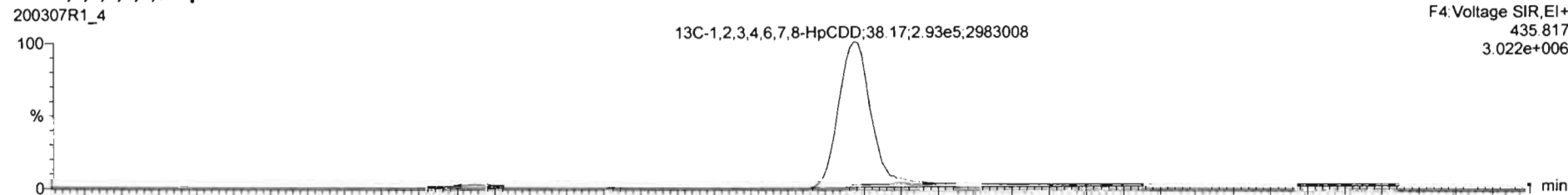
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

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



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



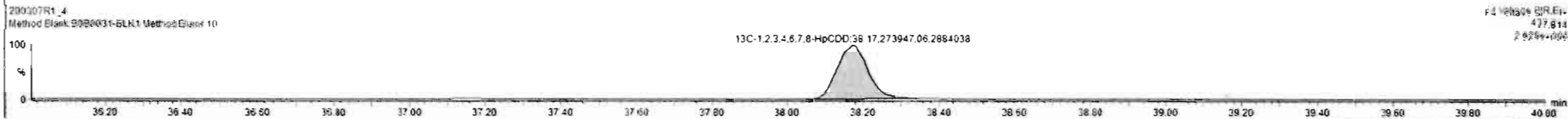
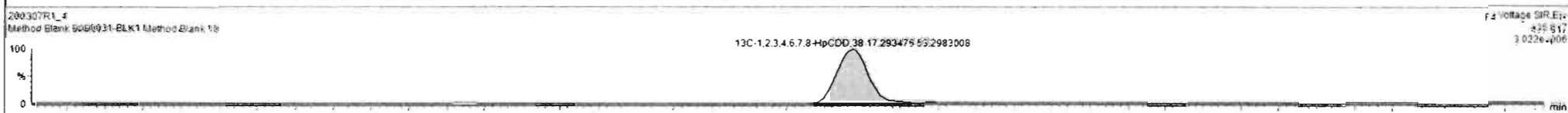
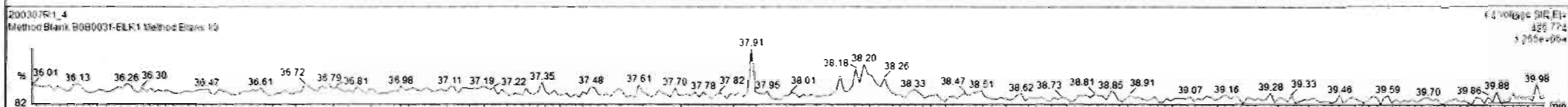
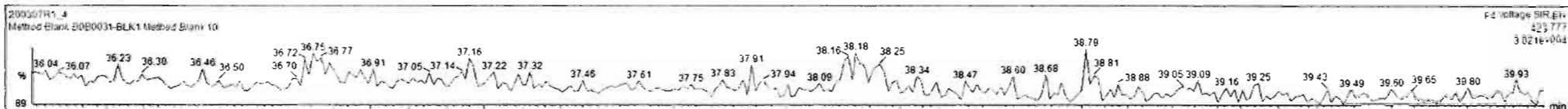
TargetLynx - 200307R1_4.qtd - (Chromatogram)

File Edit View Display Processing Window Help

200307R1_4 - B0B0031-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9844	10.000					0.0487	
42 Total Hepta-Dioxins				1.9061	10.000					0.0956	
43 Total Tetra-Furans				0.9154	10.000					0.0211	

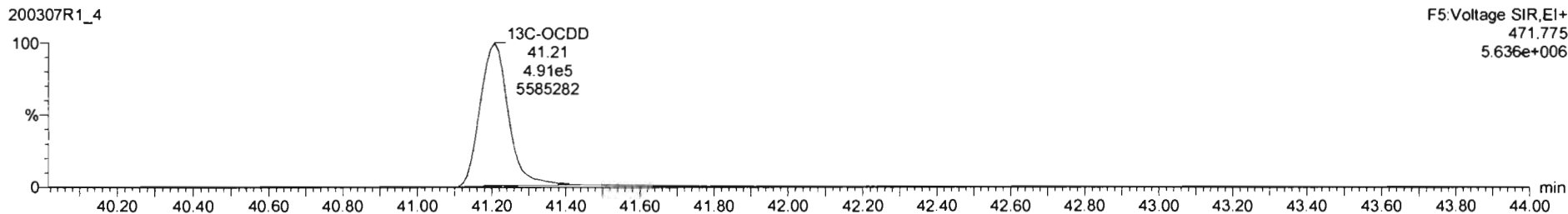
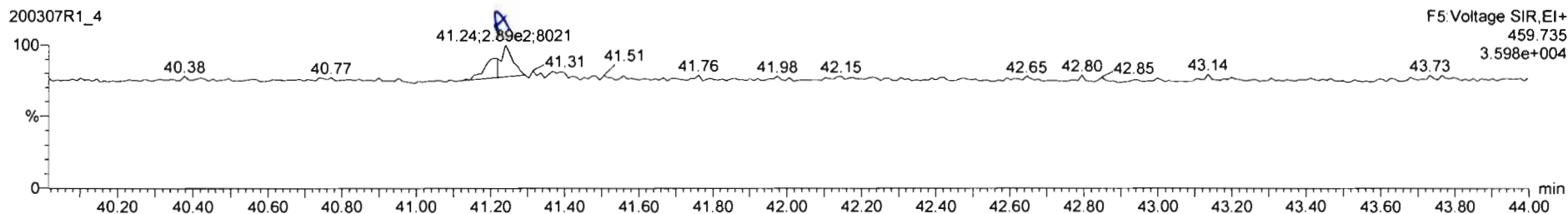
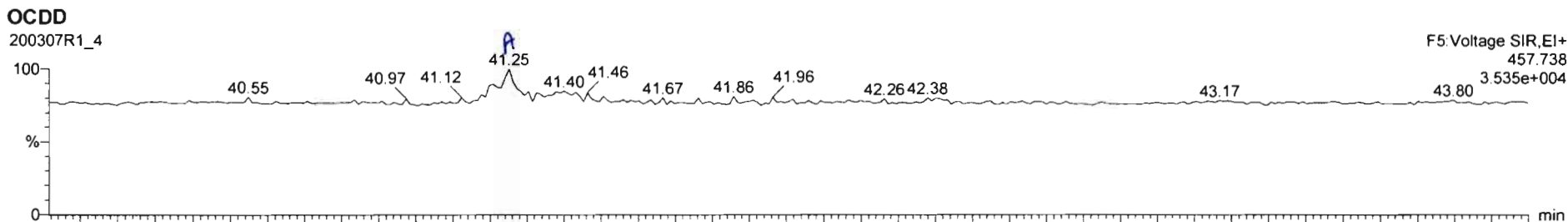
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1							



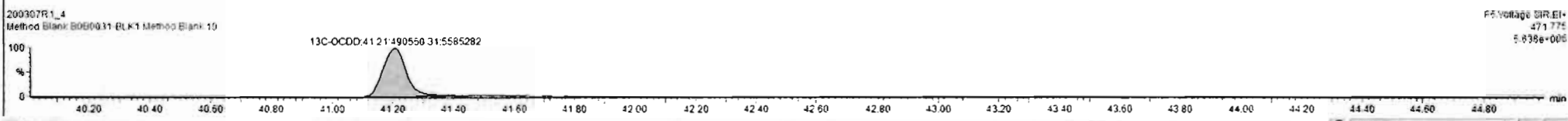
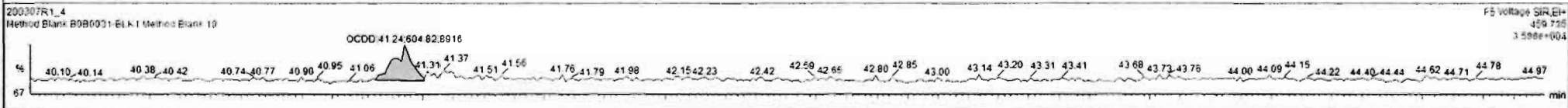
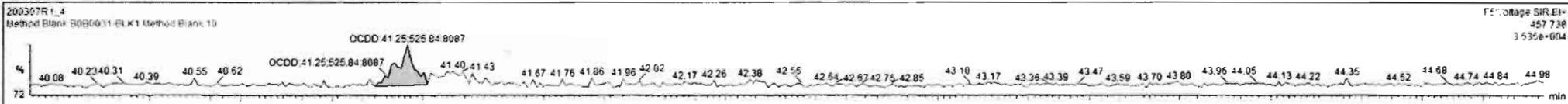
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank



SI	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9835	10.000					0.0643	
2	1,2,3,7,8-PeCDD			NO	0.8212	10.000					0.0567	
3	1,2,3,4,7,8-HxCDD			NO	1.1325	10.000					0.0808	
4	1,2,3,6,7,8-HxCDD			NO	0.9644	10.000					0.0626	
5	1,2,3,7,8,9-HxCDD			NO	0.9674	10.000					0.0650	
6	1,2,3,4,6,7,8-HpCDD			NO	1.0051	10.000					0.177	
7	OCDD	1.13e3	0.87	NO	1.8516	10.000	41.25	1.001	0.463		0.160	0.463
8	2,3,7,8-TCDF			NO	0.9154	10.000					0.0447	
9	1,2,3,7,8-PeCDF			NO	0.9594	10.000					0.0472	
10	2,3,4,7,8-PeCDF			NO	1.0035	10.000					0.0443	
11	1,2,3,4,7,8-HxCDF			NO	1.0361	10.000					0.0536	
12	1,2,3,6,7,8-HxCDF			NO	1.0126	10.000					0.0521	
13	2,3,4,6,7,8-HxCDF			NO	1.0920	10.000					0.0581	
14	1,2,7,8,9-HxCDF			NO	1.0258	10.000					0.0616	
15	1,2,3,4,6,7,8-HpCDF			NO	1.0483	10.000					0.100	
16	1,2,3,4,7,8,9-HpCDF			NO	1.2059	10.000					0.131	
17	OCDF			NO	0.9468	10.000					0.142	
18	13C-2,3,7,8-TCDD	1.20e6	0.78	NO	1.1842	10.000	25.76	1.028	163	81.5	0.241	
19	13C-1,2,3,7,8-PeCDD	1.04e6	0.64	NO	0.8644	10.000	30.97	1.236	179	69.5	0.315	
20	13C-1,2,3,4,7,8-HxCDD	7.23e5	1.27	NO	0.7539	10.000	34.36	1.014	152	75.9	0.338	
21	13C-1,2,3,6,7,8-HxCDD	6.87e5	1.25	NO	0.9254	10.000	34.46	1.017	152	75.6	0.276	

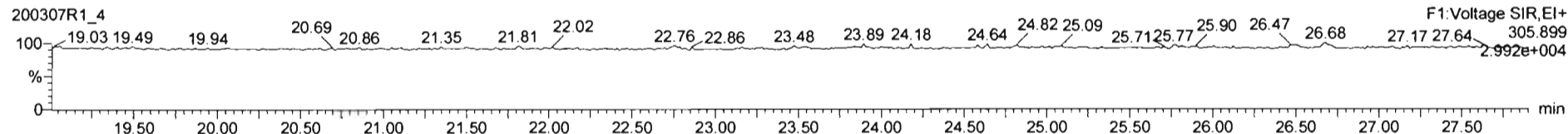
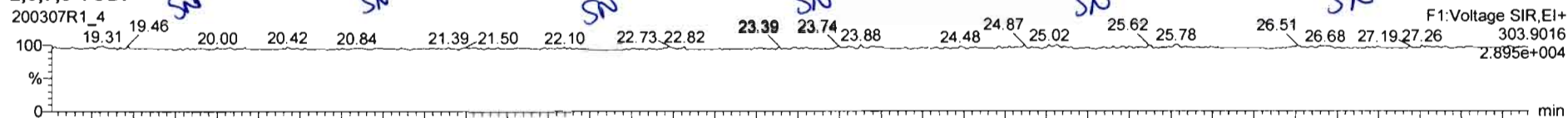


Dataset: Untitled

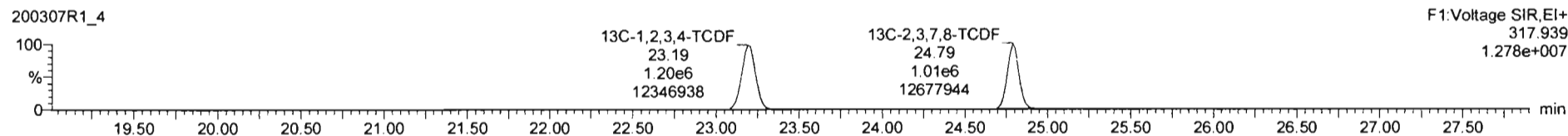
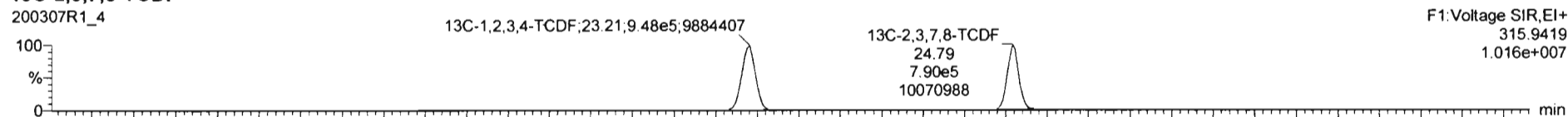
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

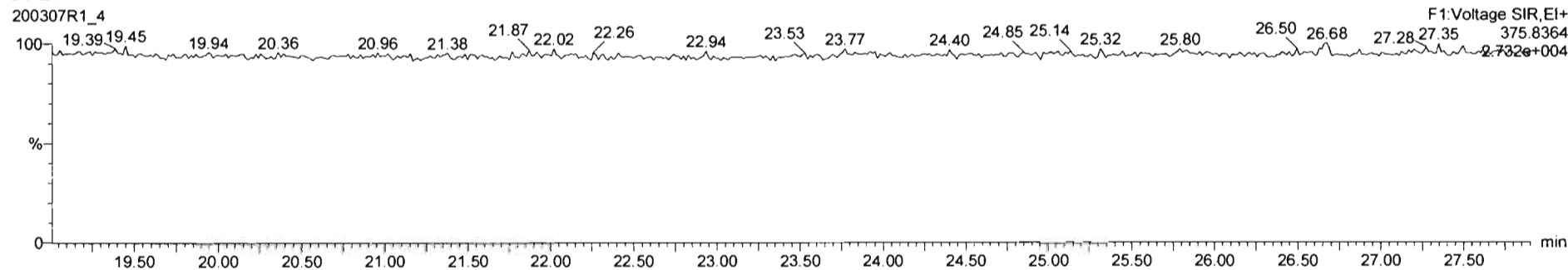
2,3,7,8-TCDF



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



DPE1



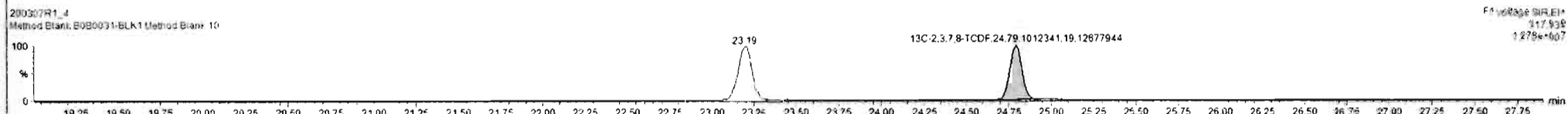
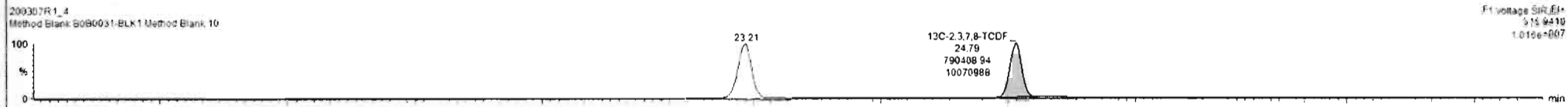
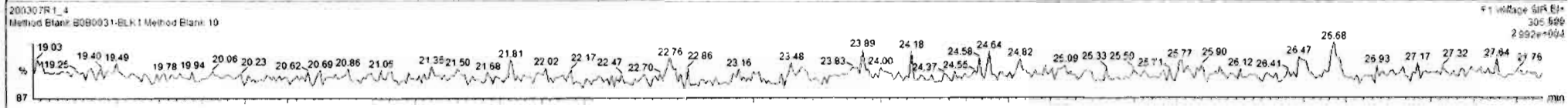
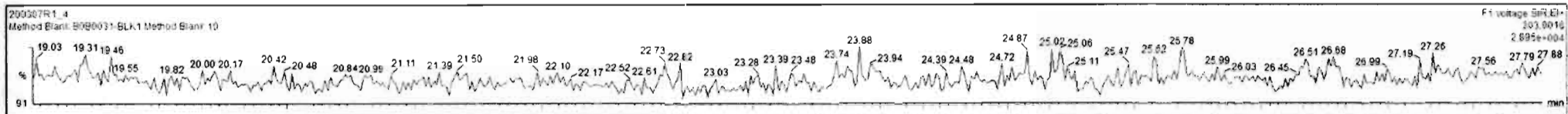
TargetLynx - 200307R1_4.qld - (Chromatogram)

File Edit View Display Processing Window Help

200307R1_4 - B0B0031-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	Dt	EMPC
41 Total Hexa-Dioxins				0.9844	10.000					0.0487	
42 Total Hepta-Dioxins				1.0061	10.000					0.0656	
43 Total Tetra-Furans				0.9154	10.000					0.0211	
44 Total Furans				0.9404	10.000					0.0148	

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



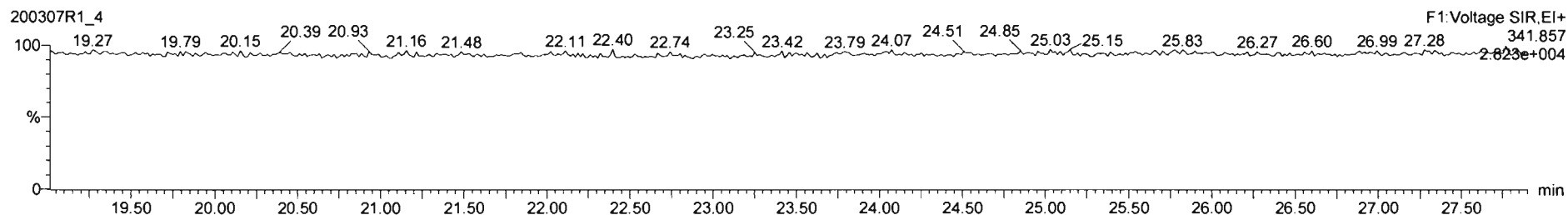
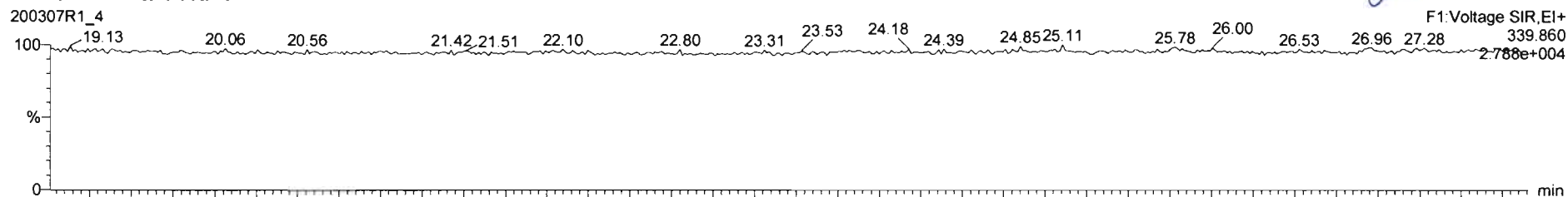
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

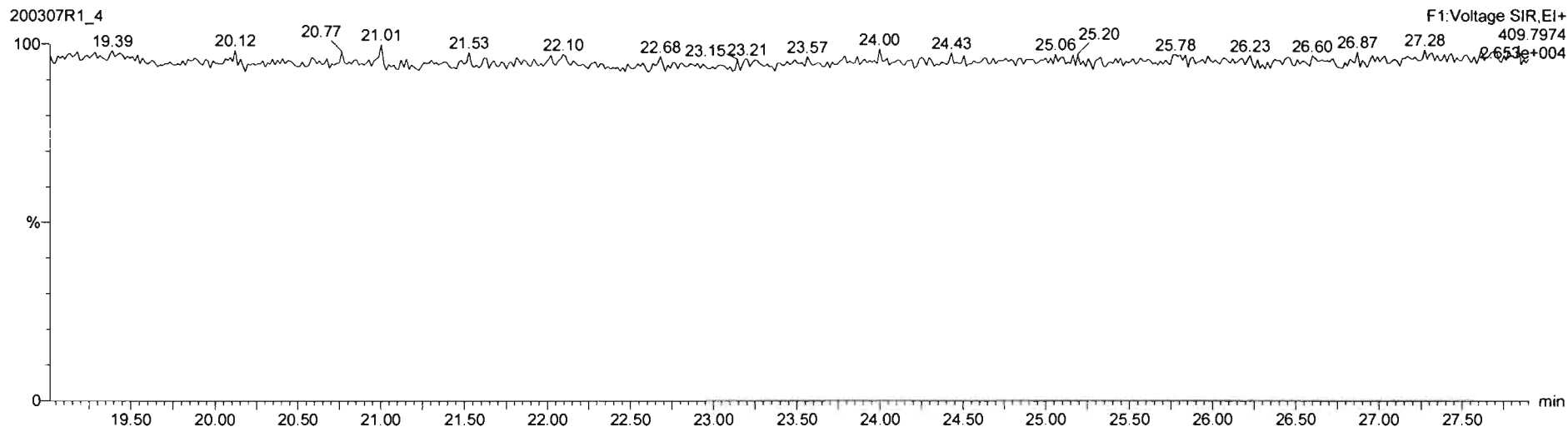
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans



DPE6



Dataset: Untitled

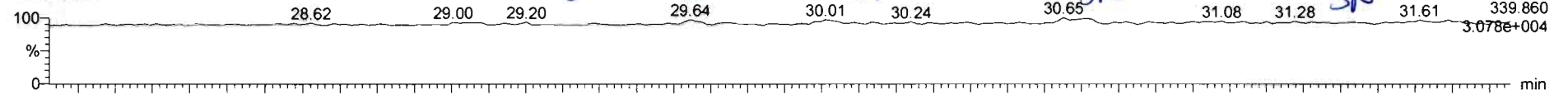
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

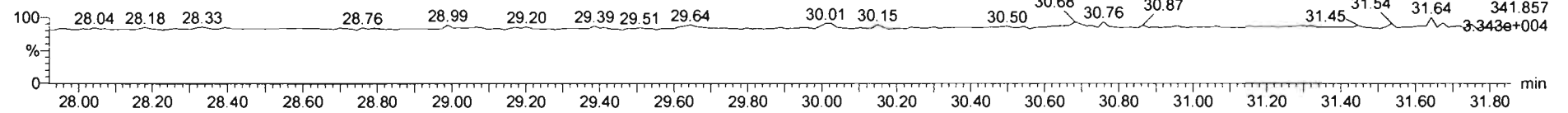
Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDF

200307R1_4

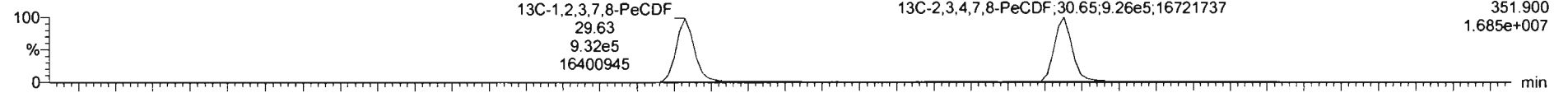


200307R1_4

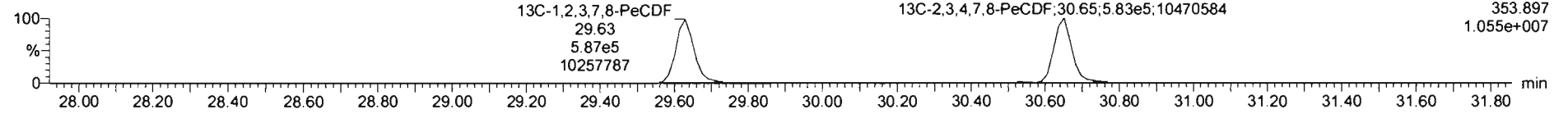


13C-1,2,3,7,8-PeCDF

200307R1_4

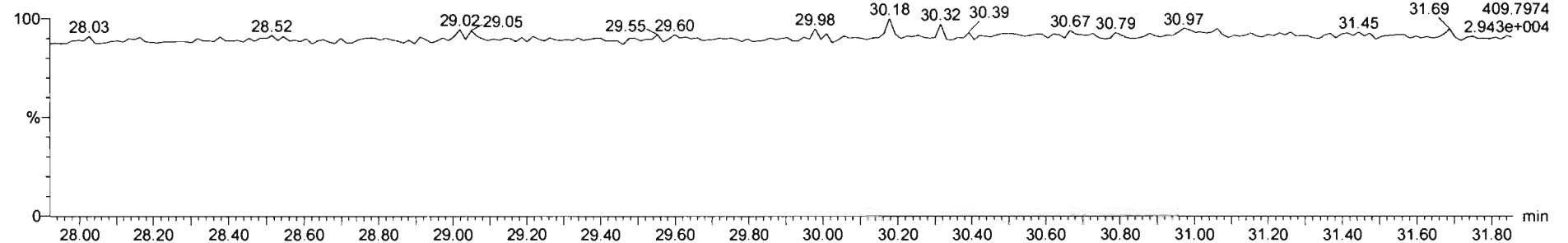


200307R1_4



DPE2

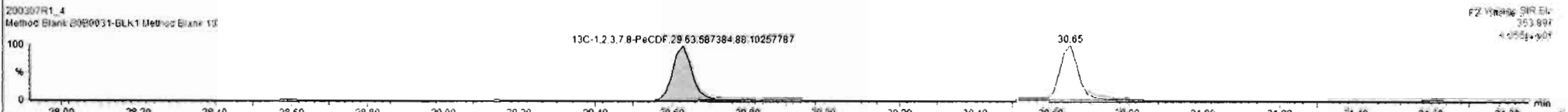
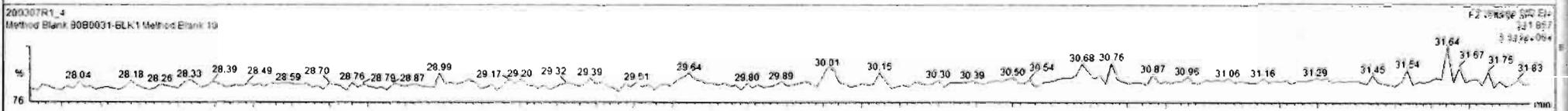
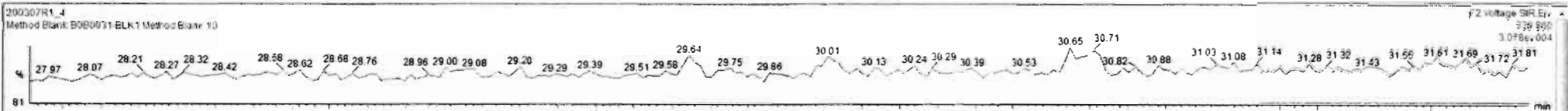
200307R1_4



200307R1_4 - B0B0031-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	nly	RRF	wVol	RT	RRT	Coec	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.000					0.0198	
46 Total Hexa-Furans				1.0920	10.000					0.0294	
47 Total Hepta-Furans				1.0483	10.000					0.0552	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc

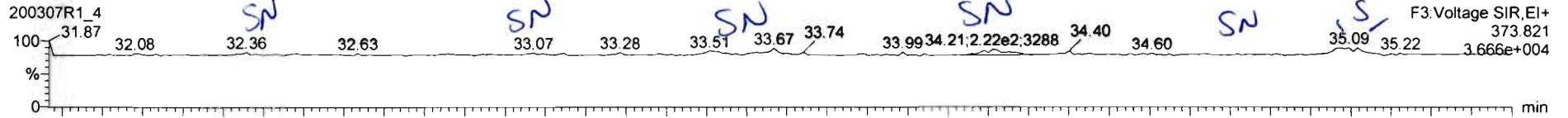


Dataset: Untitled

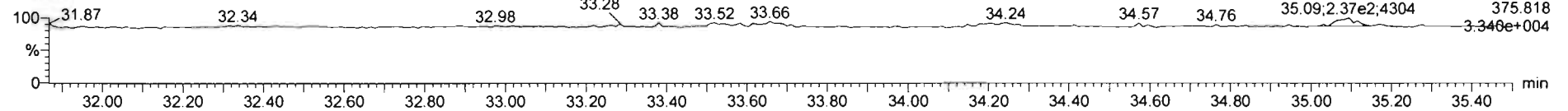
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

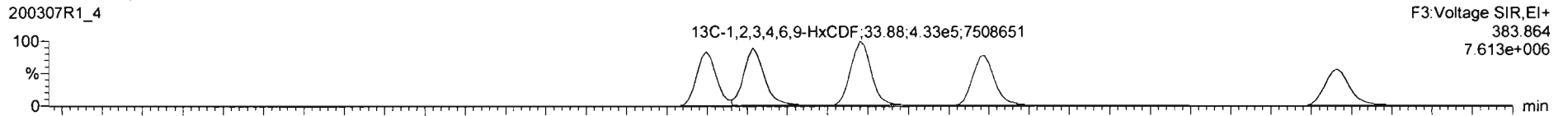
1,2,3,4,7,8-HxCDF



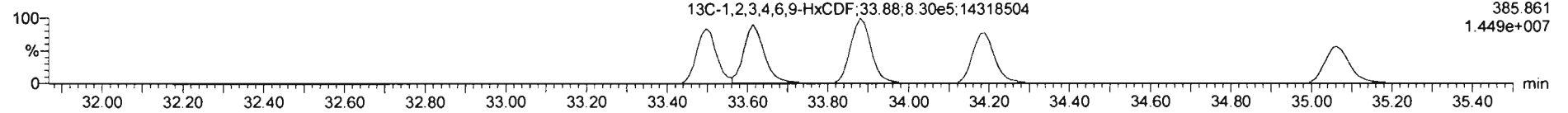
200307R1_4



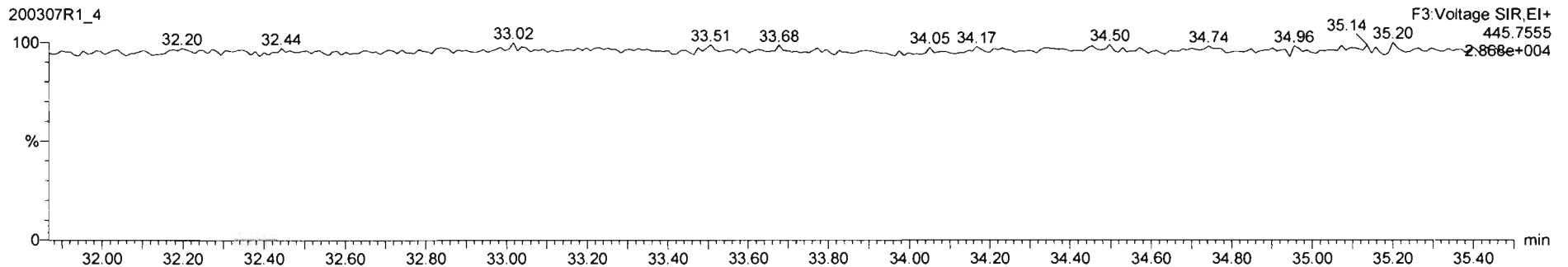
13C-1,2,3,4,7,8-HxCDF



200307R1_4

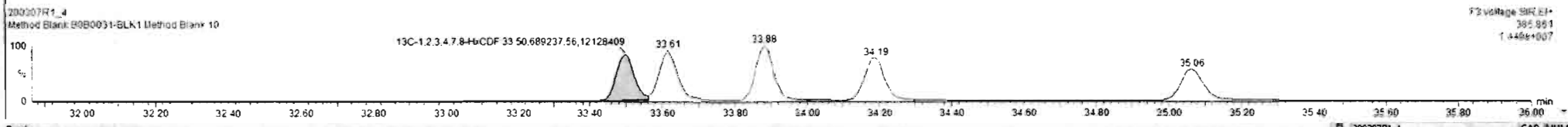
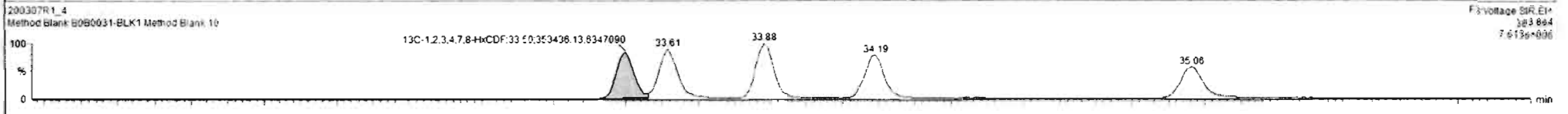
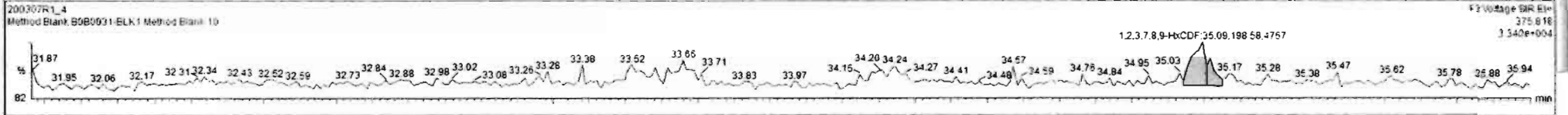
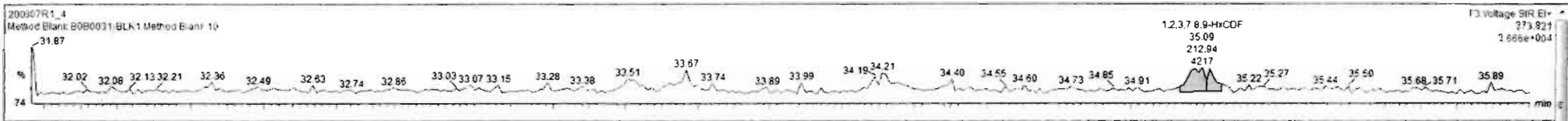


DPE3



#	Name	Resp	RA	n1y	RRF	wt/mol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9584	10.000					0.0196	
46	Total Hexa-Furans				1.0920	10.000			0.0804		0.0294	0.119
47	Total Hepta-Furans				1.0483	10.000					0.0552	

#	Name	RT	m1 Resp	n2 Resp	RA	n1y	EMPC	Conc
1	Total Hexa-Furans	35.12	9.230e1	7.595e1	1.28	NO	0.010737	0.00000
2	1,2,3,7,8,9-HxCDF	35.09	2.129e2	1.566e2	1.07	NO	0.068259	0.080359

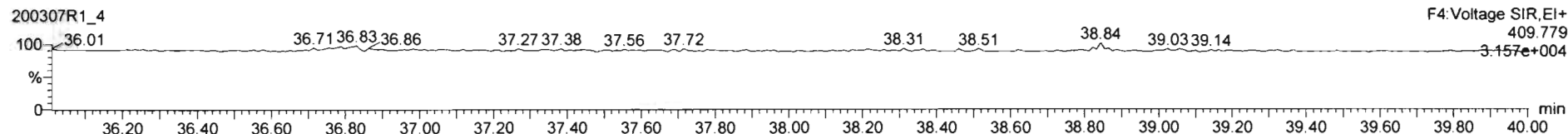
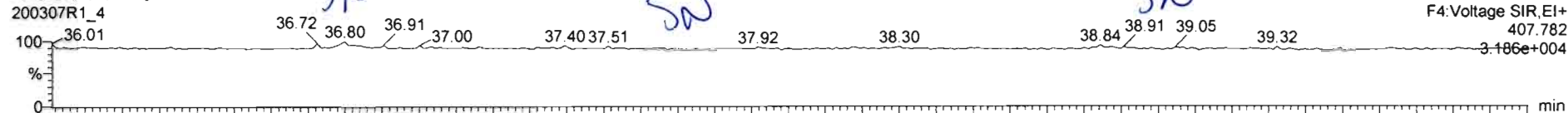


Dataset: Untitled

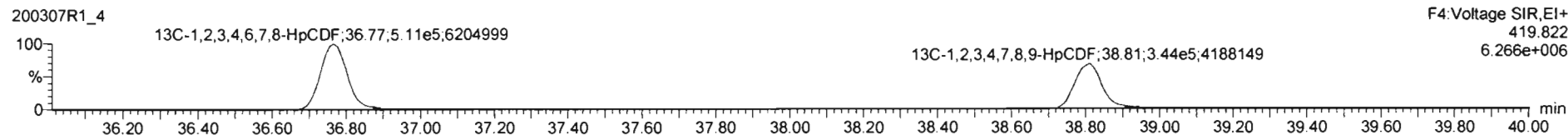
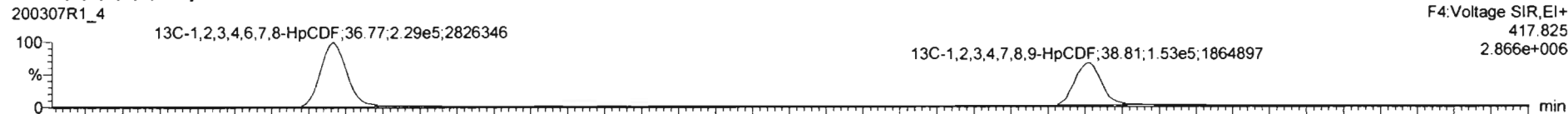
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

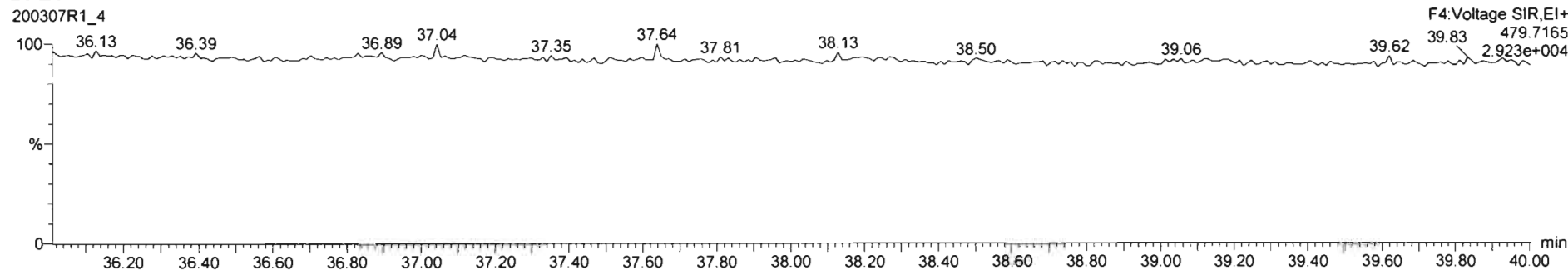
1,2,3,4,6,7,8-HpCDF



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



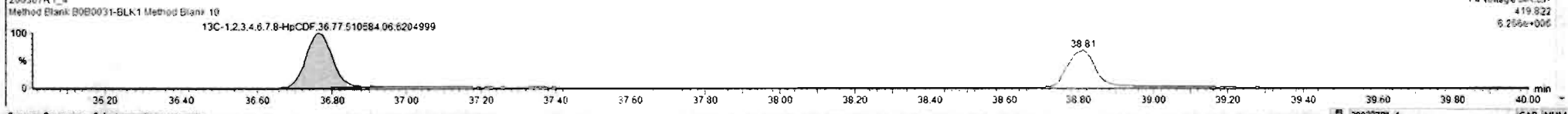
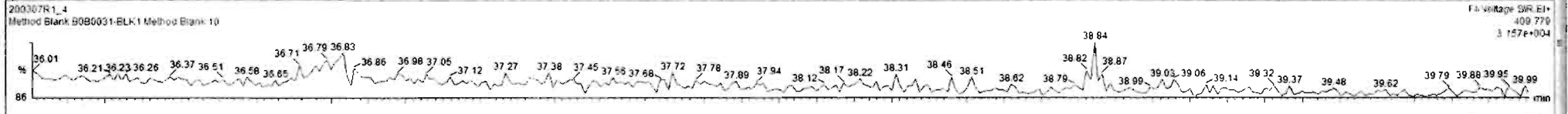
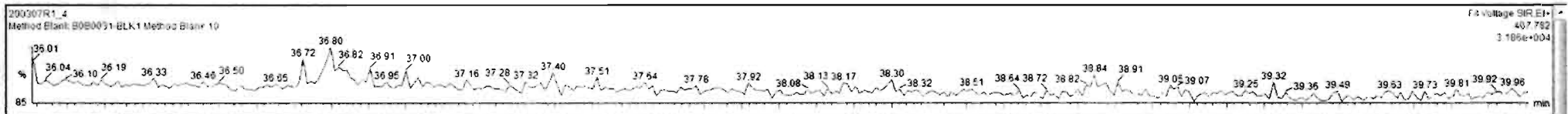
DPE4



200307R1_4 - B0B0031-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	wtdol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9534	10.000					0.0196	
46 Total Hexa-Furans				1.0920	10.000			0.0854		0.0294	0.119
47 Total Hepta-Furans				1.8483	10.000					0.0552	

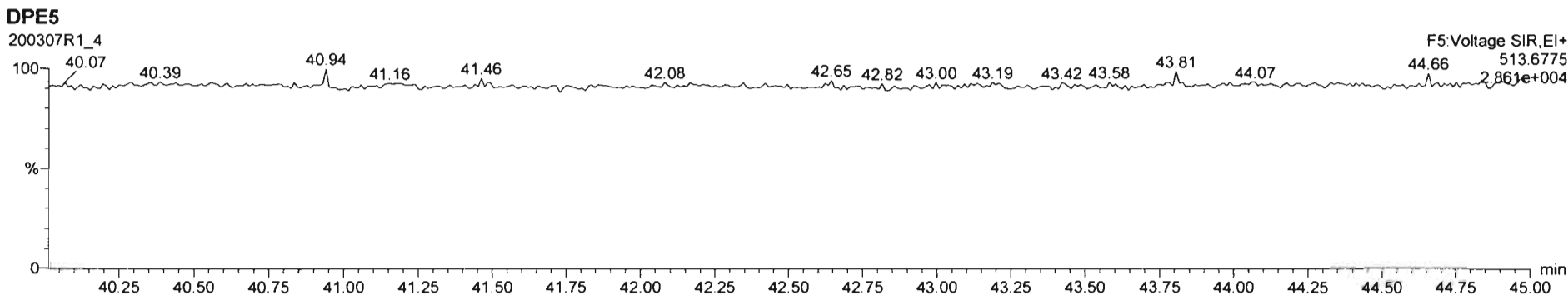
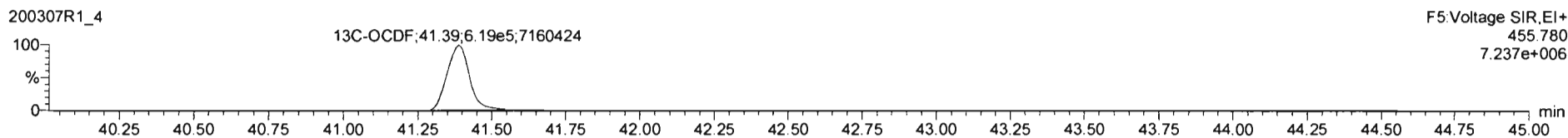
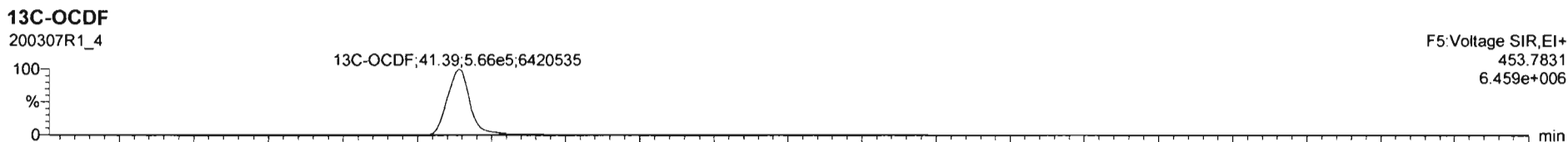
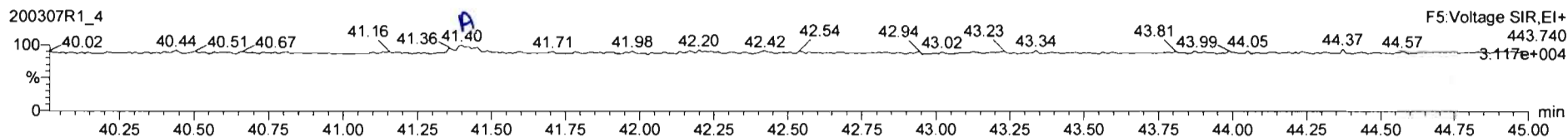
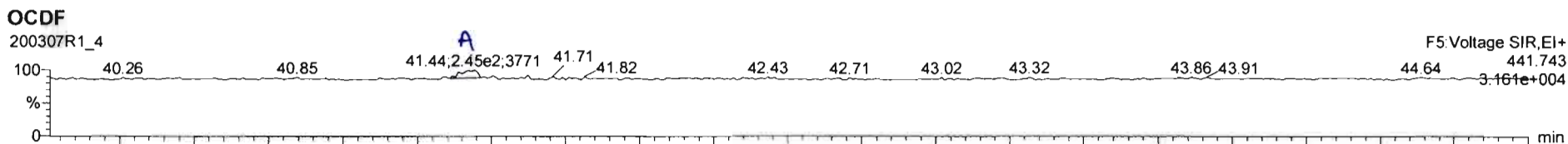
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



Dataset: Untitled

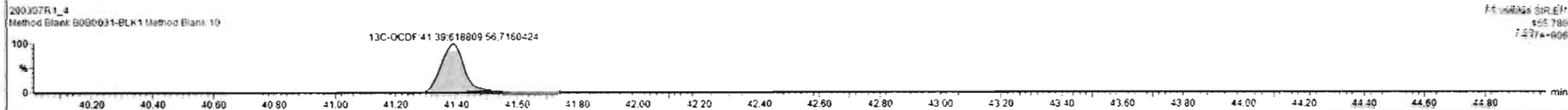
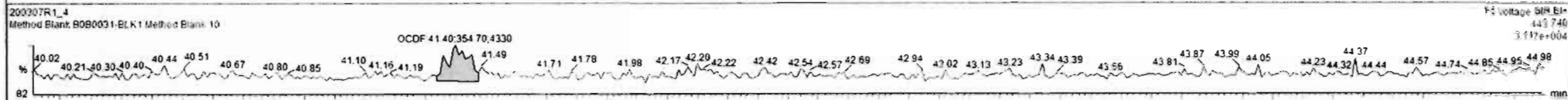
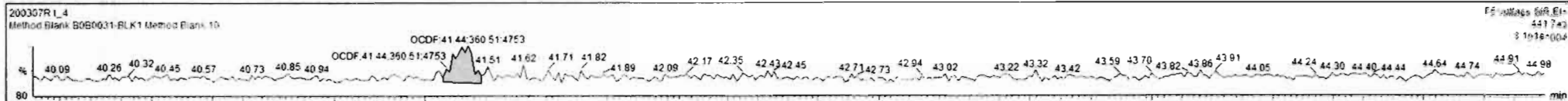
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank



200307R1_4 - B0B0031-BL K1 Method Blank 10 - Method Blank

ID	Name	Resp	RA	nt	RRF	w/wol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9835	10.000					0.0643	
2	1,2,3,7,8-PeCDD			NO	0.8212	10.000					0.0567	
3	1,2,3,4,7,8-HxCDD			NO	1.1325	10.000					0.0808	
4	1,2,3,6,7,8-HxCDD			NO	0.9844	10.000					0.0626	
5	1,2,3,7,8,9-HxCDD			NO	0.9674	10.000					0.0950	
6	1,2,3,4,6,7,8-HpCDD			NO	1.0061	10.000					0.1177	
7	OCDD	1.13e2	0.87	NO	1.0515	10.000	41.25	1.001	0.463		0.169	C 463
8	2,3,7,8-TCDF			NO	0.9154	10.000					0.0447	
9	1,2,3,7,8-PeCDF			NO	0.9594	10.000					0.0473	
10	2,3,4,7,8-PeCDF			NO	1.0025	10.000					0.0443	
11	1,2,3,4,7,8-HxCDF			NO	1.0381	10.000					0.0536	
12	1,2,3,6,7,8-HxCDF			NO	1.0126	10.000					0.0521	
13	2,3,4,6,7,8-HxCDF			NO	1.0920	10.000					0.0561	
14	1,2,3,7,8,9-HxCDF			NO	1.0268	10.000					0.0616	
15	1,2,3,4,6,7,8-HpCDF			NO	1.0483	10.000					0.100	
16	1,2,3,4,7,8,9-HpCDF			NO	1.2069	10.000					0.131	
17	OCDF	7.15e2	1.02	NO	0.9466	10.000	41.44	1.001	0.255		0.143	0.255
18	13C-2,3,7,8-TCDD	1.30e6	0.78	NO	1.1842	10.000	25.76	1.028	163	81.5	0.241	
19	13C-1,2,3,7,8-PeCDD	1.04e6	0.64	NO	0.8644	10.000	30.57	1.236	179	89.5	0.315	
20	13C-1,2,3,4,7,8-HxCDD	7.23e5	1.27	NO	0.7539	10.000	34.36	1.014	152	75.9	0.338	
21	13C-1,2,3,6,7,8-HxCDD	6.87e5	1.25	NO	0.9254	10.000	34.46	1.017	152	75.9	0.278	

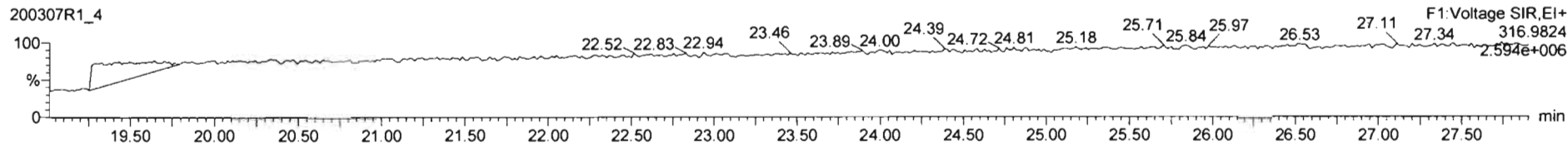


Dataset: Untitled

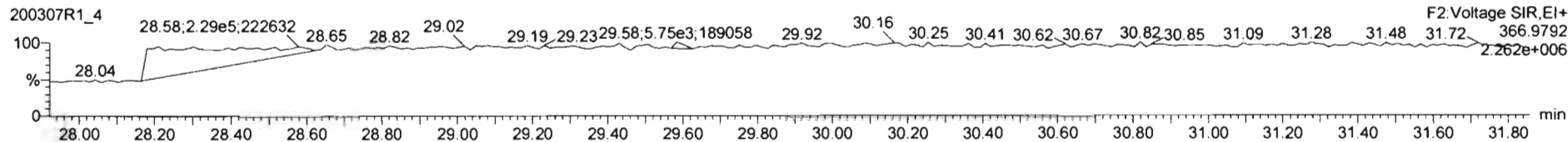
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_4, Date: 07-Mar-2020, Time: 12:06:17, ID: B0B0031-BLK1 Method Blank 10, Description: Method Blank

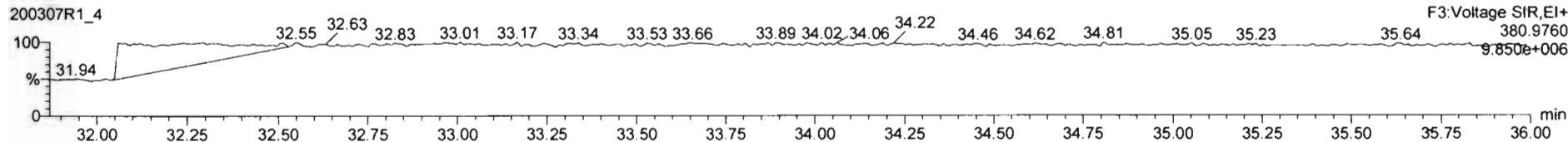
PFK1



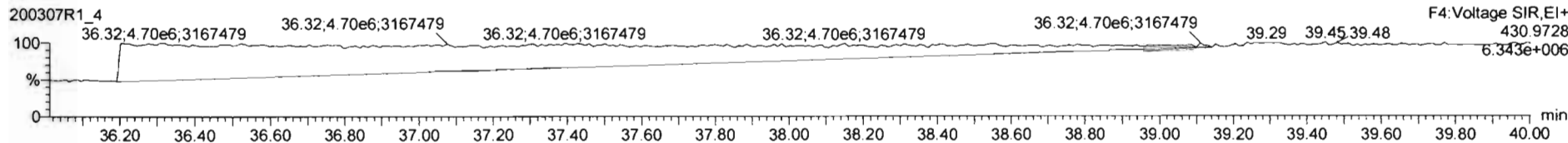
PFK2



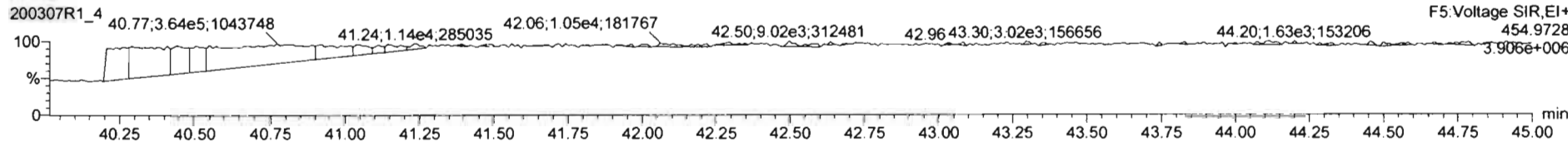
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200307R1\200307R1-2.qld

Last Altered: Tuesday, March 10, 2020 15:59:09 Pacific Daylight Time
Printed: Tuesday, March 10, 2020 16:00:24 Pacific Daylight Time

GRB 03/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

C703/20/2020

Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.10e5	0.78	NO	0.983	10.000	25.796	25.80	1.001	1.001	19.063		0.131	19.1
2	2 1,2,3,7,8-PeCDD	4.13e5	0.64	NO	0.921	10.000	30.994	30.99	1.001	1.000	97.639		0.230	97.6
3	3 1,2,3,4,7,8-HxCDD	3.52e5	1.23	NO	1.13	10.000	34.370	34.37	1.000	1.000	96.134		0.236	96.1
4	4 1,2,3,6,7,8-HxCDD	3.83e5	1.24	NO	0.984	10.000	34.456	34.48	1.000	1.001	99.365		0.240	99.4
5	5 1,2,3,7,8,9-HxCDD	3.41e5	1.28	NO	0.967	10.000	34.743	34.74	1.000	1.000	100.53		0.289	101
6	6 1,2,3,4,6,7,8-HpCDD	2.35e5	1.03	NO	1.01	10.000	38.194	38.19	1.000	1.000	96.257		0.451	96.3
7	7 OCDD	4.15e5	0.89	NO	1.05	10.000	41.219	41.23	1.000	1.000	189.46		0.389	189
8	8 2,3,7,8-TCDF	1.45e5	0.77	NO	0.915	10.000	24.832	24.82	1.001	1.001	18.988		0.112	19.0
9	9 1,2,3,7,8-PeCDF	6.43e5	1.55	NO	0.959	10.000	29.666	29.65	1.001	1.000	97.322		0.165	97.3
10	10 2,3,4,7,8-PeCDF	6.69e5	1.54	NO	1.00	10.000	30.683	30.67	1.001	1.000	97.430		0.149	97.4
11	11 1,2,3,4,7,8-HxCDF	4.47e5	1.21	NO	1.04	10.000	33.508	33.52	1.000	1.000	96.067		0.192	96.1
12	12 1,2,3,6,7,8-HxCDF	5.20e5	1.23	NO	1.01	10.000	33.635	33.64	1.000	1.000	98.265		0.184	98.3
13	13 2,3,4,6,7,8-HxCDF	4.91e5	1.22	NO	1.09	10.000	34.234	34.21	1.001	1.000	96.717		0.199	96.7
14	14 1,2,3,7,8,9-HxCDF	3.68e5	1.21	NO	1.03	10.000	35.074	35.08	1.000	1.000	93.437		0.307	93.4
15	15 1,2,3,4,6,7,8-HpCDF	3.24e5	0.99	NO	1.05	10.000	36.804	36.79	1.001	1.001	96.425		0.387	96.4
16	16 1,2,3,4,7,8,9-HpCDF	2.50e5	0.98	NO	1.21	10.000	38.812	38.83	1.000	1.001	96.533		0.484	96.5
17	17 OCDF	4.91e5	0.89	NO	0.947	10.000	41.400	41.41	1.000	1.000	190.02		0.390	190
18	18 13C-2,3,7,8-TCDD	1.18e6	0.80	NO	1.18	10.000	25.781	25.76	1.029	1.028	162.98	81.5	0.215	
19	19 13C-1,2,3,7,8-PeCDD	9.18e5	0.63	NO	0.864	10.000	30.974	30.97	1.236	1.236	174.28	87.1	0.287	
20	20 13C-1,2,3,4,7,8-HxCDD	6.47e5	1.28	NO	0.754	10.000	34.362	34.36	1.014	1.014	156.04	78.0	0.338	
21	21 13C-1,2,3,6,7,8-HxCDD	7.83e5	1.26	NO	0.925	10.000	34.471	34.46	1.017	1.017	153.93	77.0	0.275	
22	22 13C-1,2,3,7,8,9-HxCDD	7.01e5	1.25	NO	0.829	10.000	34.731	34.73	1.025	1.025	153.75	76.9	0.307	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.86e5	1.03	NO	0.598	10.000	38.182	38.18	1.127	1.127	147.69	73.8	0.380	
24	24 13C-OCDD	8.34e5	0.89	NO	0.571	10.000	41.323	41.22	1.219	1.216	265.49	66.4	0.491	
25	25 13C-2,3,7,8-TCDF	1.67e6	0.79	NO	1.09	10.000	24.801	24.81	0.990	0.990	153.11	76.6	0.296	
26	26 13C-1,2,3,7,8-PeCDF	1.38e6	1.58	NO	0.876	10.000	29.643	29.65	1.183	1.183	156.92	78.5	0.305	
27	27 13C-2,3,4,7,8-PeCDF	1.37e6	1.56	NO	0.844	10.000	30.656	30.65	1.223	1.223	161.97	81.0	0.317	
28	28 13C-1,2,3,4,7,8-HxCDF	8.96e5	0.53	NO	1.00	10.000	33.511	33.51	0.989	0.989	163.03	81.5	0.501	
29	29 13C-1,2,3,6,7,8-HxCDF	1.05e6	0.52	NO	1.12	10.000	33.620	33.63	0.992	0.992	170.10	85.0	0.449	
30	30 13C-2,3,4,6,7,8-HxCDF	9.30e5	0.52	NO	1.04	10.000	34.199	34.20	1.009	1.009	163.44	81.7	0.484	
31	31 13C-1,2,3,7,8,9-HxCDF	7.66e5	0.52	NO	0.873	10.000	35.070	35.07	1.035	1.035	159.70	79.9	0.574	

Dataset: U:\VG12.PRO\Results\200307R1\200307R1-2.qld

Last Altered: Tuesday, March 10, 2020 15:59:09 Pacific Daylight Time

Printed: Tuesday, March 10, 2020 16:00:24 Pacific Daylight Time

Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.40e5	0.45	NO	0.771	10.000	36.782	36.77	1.085	1.085	151.14	75.6	0.433	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.29e5	0.46	NO	0.519	10.000	38.863	38.81	1.147	1.145	150.27	75.1	0.642	
34	34 13C-OCDF	1.09e6	0.89	NO	0.696	10.000	41.503	41.40	1.225	1.222	285.13	71.3	0.323	
35	35 37Cl-2,3,7,8-TCDD	4.70e5			1.17	10.000	25.791	25.80	1.029	1.029	65.653	82.1	0.0577	
36	36 13C-1,2,3,4-TCDD	1.22e6	0.80	NO	1.00	10.000	25.050	25.06	1.000	1.000	200.00	100	0.255	
37	37 13C-1,2,3,4-TCDF	2.00e6	0.80	NO	1.00	10.000	23.190	23.21	1.000	1.000	200.00	100	0.323	
38	38 13C-1,2,3,4,6,9-HxCDF	1.10e6	0.52	NO	1.00	10.000	33.880	33.89	1.000	1.000	200.00	100	0.501	

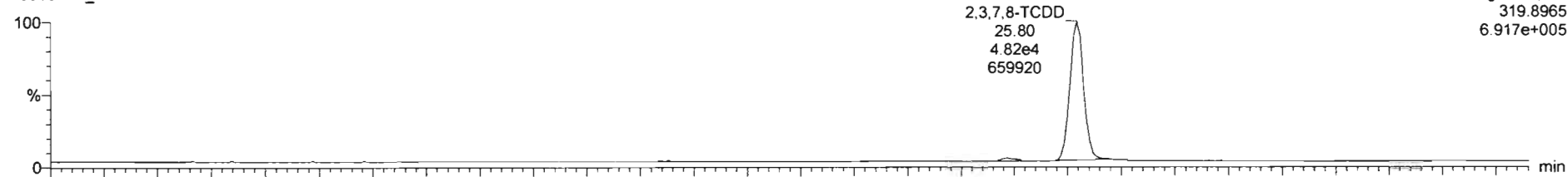
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

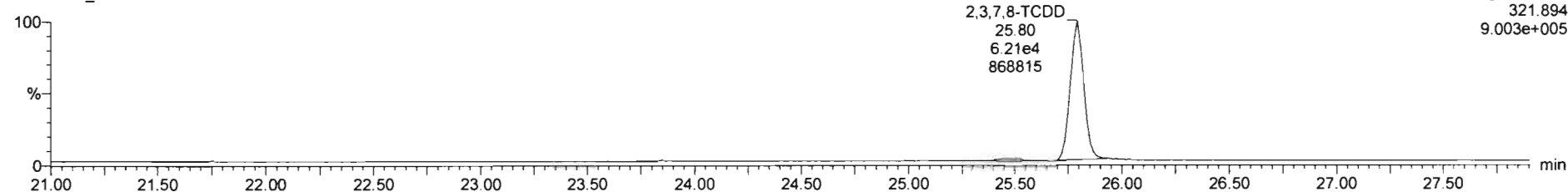
Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

2,3,7,8-TCDD

200307R1_2

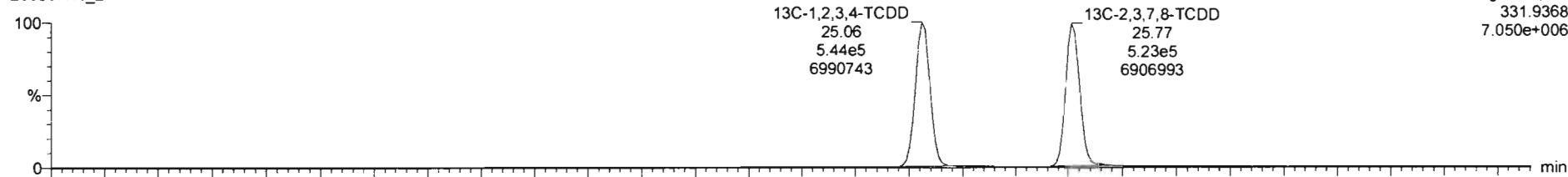


200307R1_2

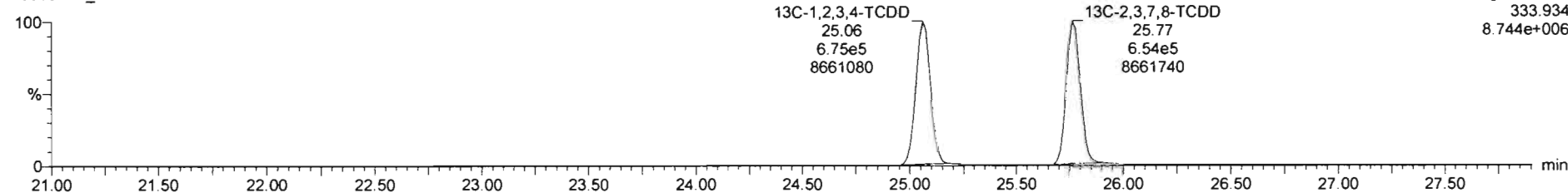


13C-2,3,7,8-TCDD

200307R1_2



200307R1_2



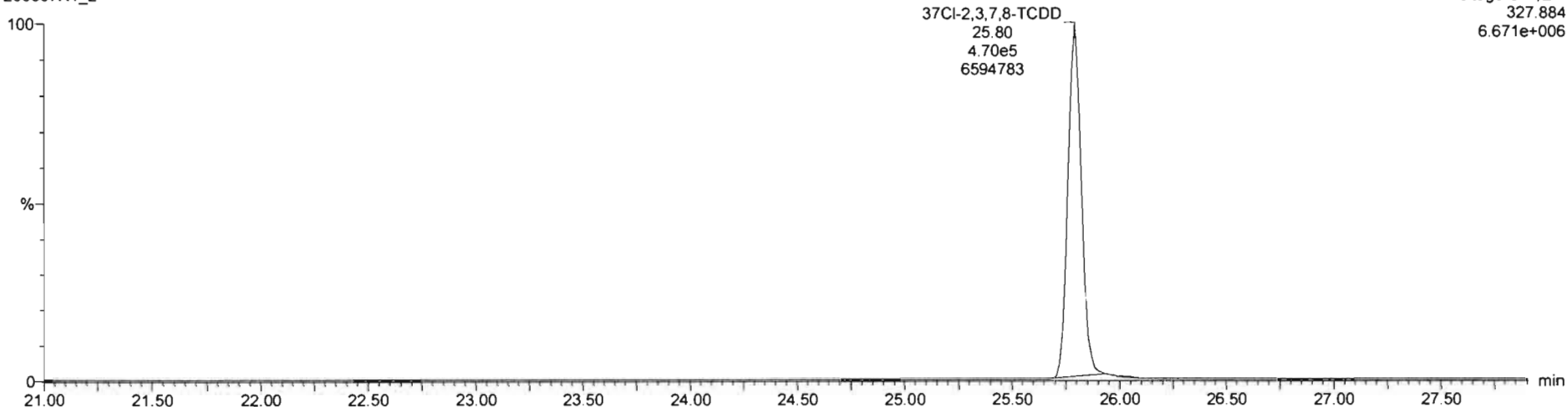
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

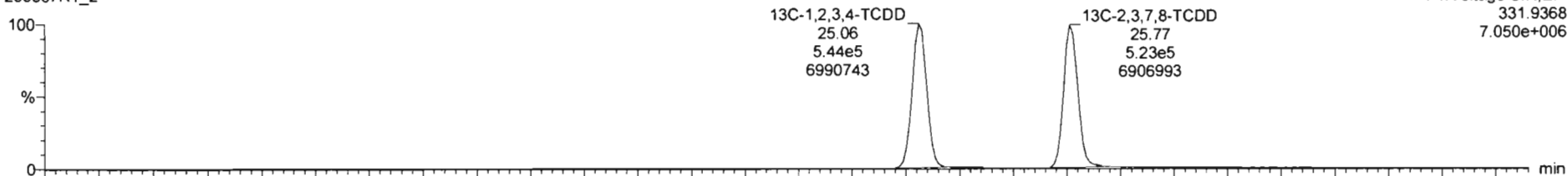
37Cl-2,3,7,8-TCDD

200307R1_2

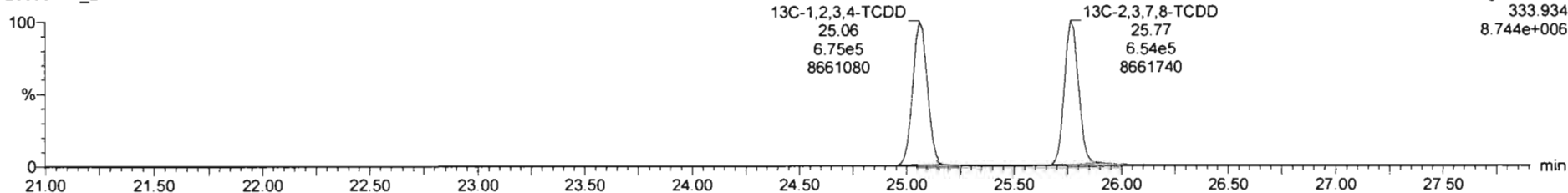


13C-1,2,3,4-TCDD

200307R1_2



200307R1_2



Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

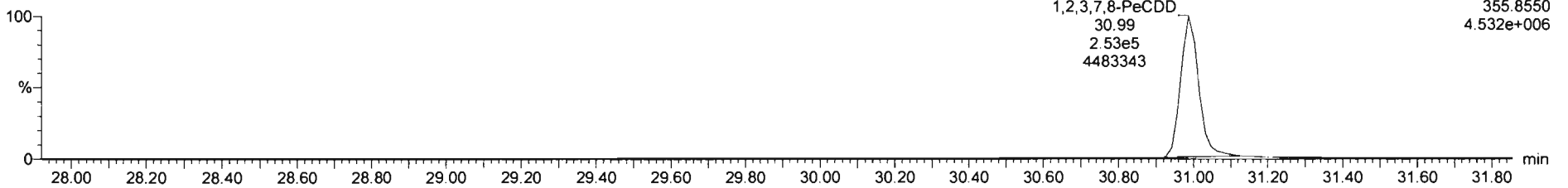
Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDD

200307R1_2

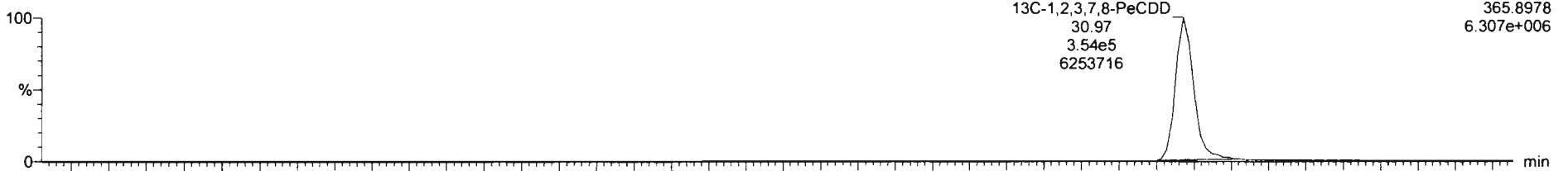


200307R1_2

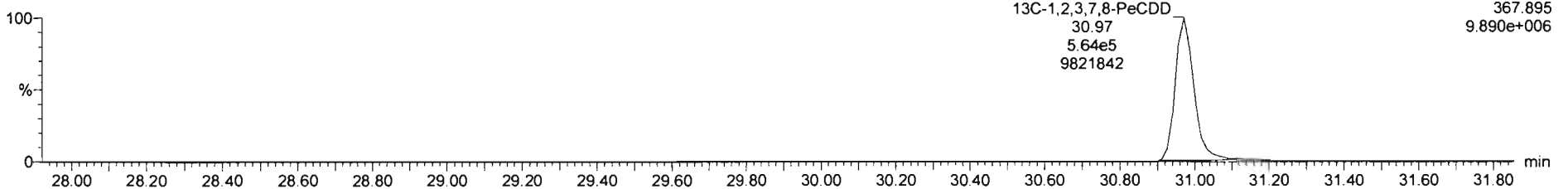


13C-1,2,3,7,8-PeCDD

200307R1_2



200307R1_2



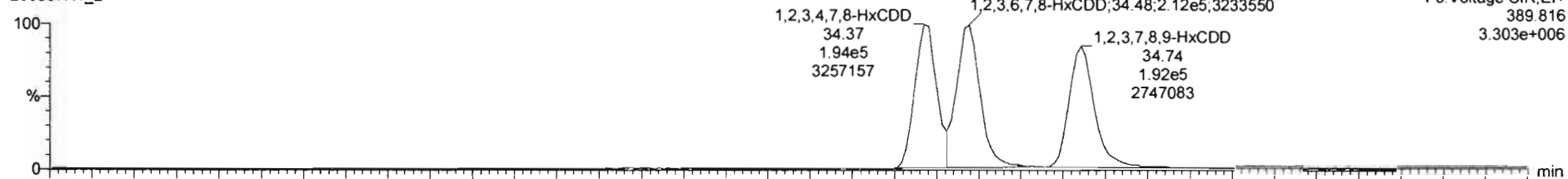
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

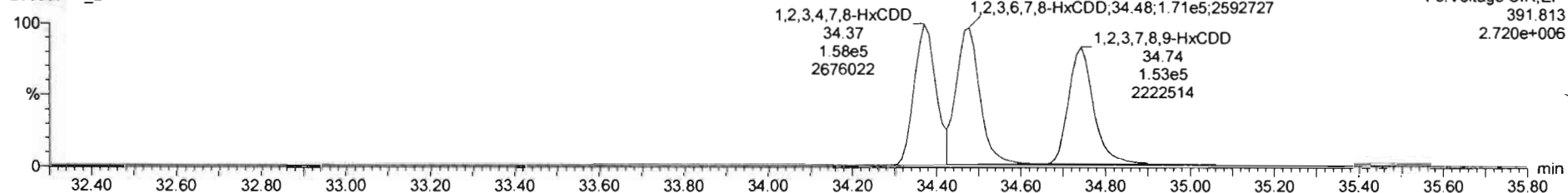
Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

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

200307R1_2

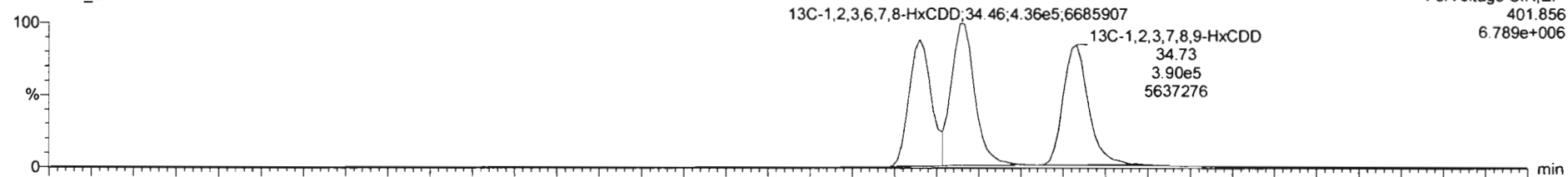


200307R1_2

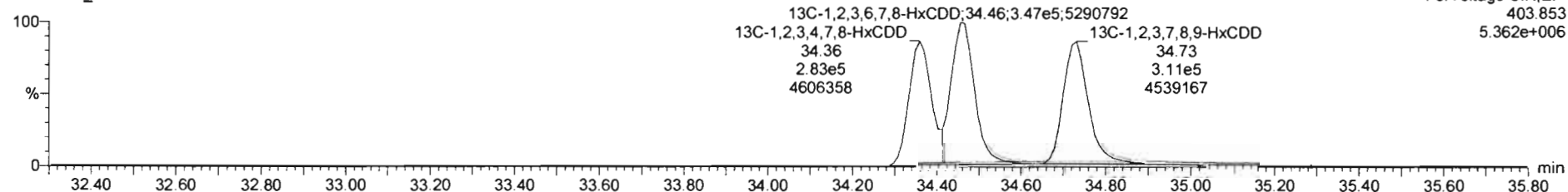


13C-1,2,3,4,7,8-HxCDD

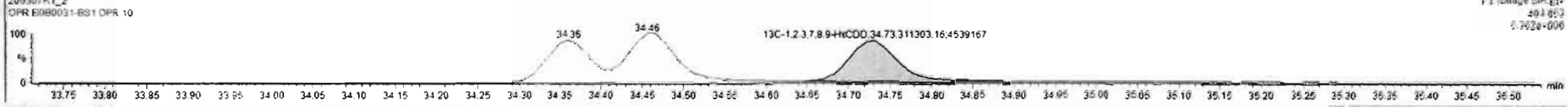
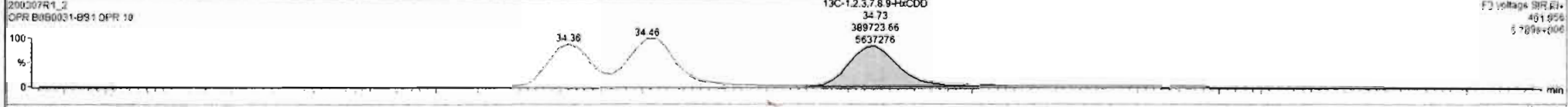
200307R1_2



200307R1_2



Name	Resp	RA	ny	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.10e5	0.78	NO	0.98	10.000	25.60	1.001	19.1		0.121	19.1
2 1,2,3,4,7,8-PeCDD	4.13e5	0.64	NO	0.92	10.000	30.96	1.000	97.6		0.230	97.6
3 1,2,3,4,7,8-HxCDD	3.52e5	1.23	NO	1.13	10.000	34.37	1.000	96.1		0.236	96.1
4 1,2,3,6,7,8-HxCDD	3.85e5	1.24	NO	0.96	10.000	34.48	1.001	99.4		0.240	99.4
5 1,2,3,7,8,9-HxCDD	3.41e5	1.28	NO	0.97	10.000	34.74	1.000	101		0.289	101
6 1,2,3,4,6,7,8-HpCDD	2.25e5	1.03	NO	1.01	10.000	38.19	1.000	96.3		0.451	96.3
7 OCDD	4.15e5	0.88	NO	1.05	10.000	41.23	1.000	189		0.380	189
8 2,3,7,8-TCDF	1.45e5	0.77	NO	0.92	10.000	24.62	1.001	19.0		0.112	19.0
9 1,2,3,7,8-PeCDF	6.43e5	1.55	NO	0.96	10.000	29.65	1.000	97.3		0.165	97.3
10 2,3,4,7,8-PeCDF	6.69e5	1.54	NO	1.00	10.000	30.67	1.000	97.4		0.149	97.4
11 1,2,3,4,7,8-HxCDF	4.47e5	1.21	NO	1.04	10.000	33.52	1.000	96.1		0.192	96.1
12 1,2,3,6,7,8-HxCDF	5.20e5	1.23	NO	1.01	10.000	33.64	1.000	98.3		0.184	98.3
13 2,3,4,6,7,8-HxCDF	4.91e5	1.22	NO	1.08	10.000	34.21	1.000	96.7		0.199	96.7
14 1,2,3,7,8,9-HxCDF	3.77e5	1.26	NO	1.03	10.000	35.08	1.000	95.3		0.310	95.3
15 1,2,3,4,6,7,8-HpCDF	3.24e5	0.99	NO	1.05	10.000	36.79	1.001	96.4		0.387	96.4
16 1,2,3,4,7,8,9-HpCDF	2.50e5	0.98	NO	1.21	10.000	38.83	1.001	96.5		0.484	96.5
17 OCDF	4.61e5	0.89	NO	0.95	10.000	41.41	1.000	190		0.390	190
18 13C-2,3,7,8-TCDD	1.18e6	0.80	NO	1.18	10.000	25.78	1.028	163	81.5	0.215	
19 13C-1,2,3,7,8-PeCDD	9.18e5	0.63	NO	0.86	10.000	30.97	1.236	174	87.1	0.287	
20 13C-1,2,3,4,7,8-HxCDD	6.47e5	1.28	NO	0.75	10.000	34.36	1.014	156	78.0	0.338	
21 13C-1,2,3,6,7,8-HxCDD	7.83e5	1.28	NO	0.93	10.000	34.46	1.017	154	77.0	0.275	



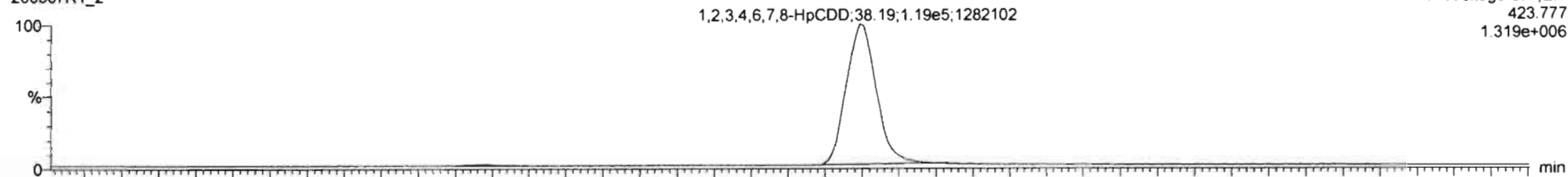
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

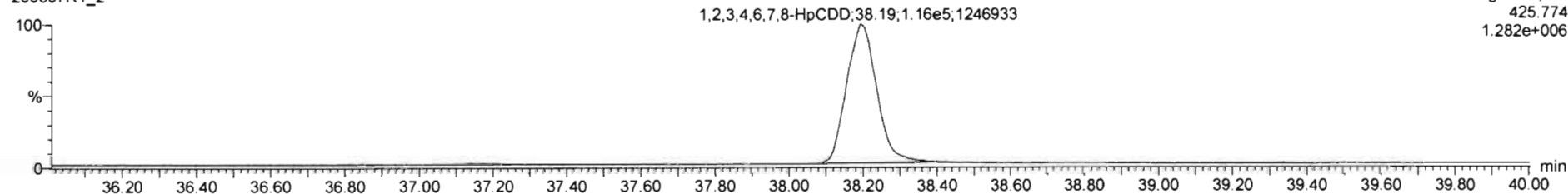
Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

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

200307R1_2

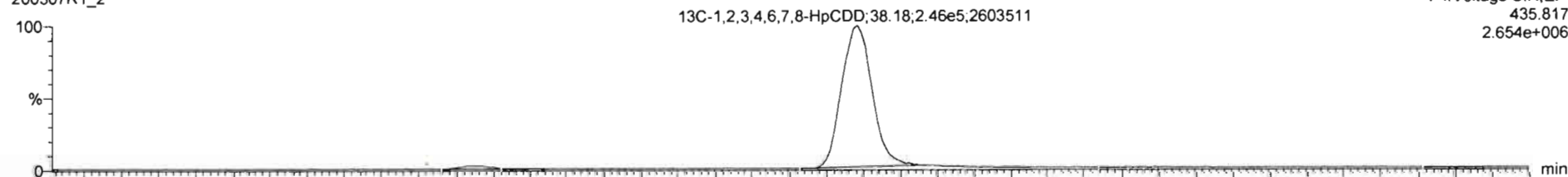


200307R1_2

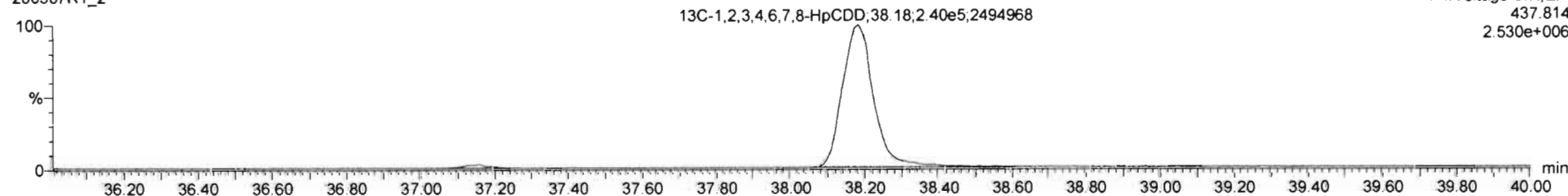


13C-1,2,3,4,6,7,8-HpCDD

200307R1_2



200307R1_2



Dataset: Untitled

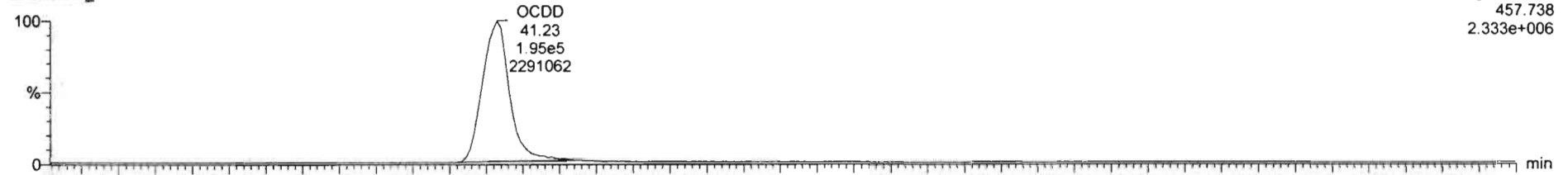
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

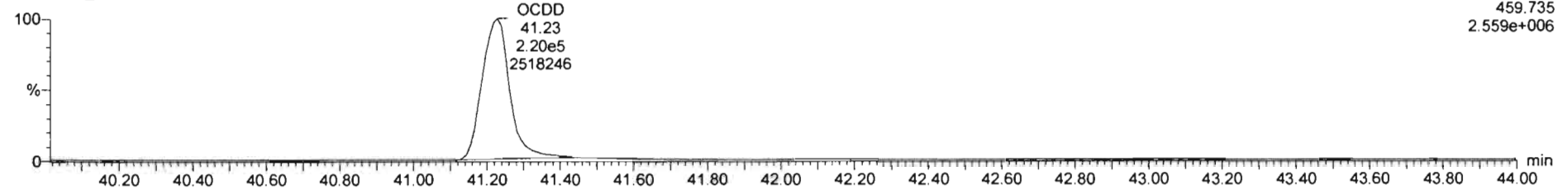
OCDD

200307R1_2



F5: Voltage SIR, EI+
457.738
2.333e+006

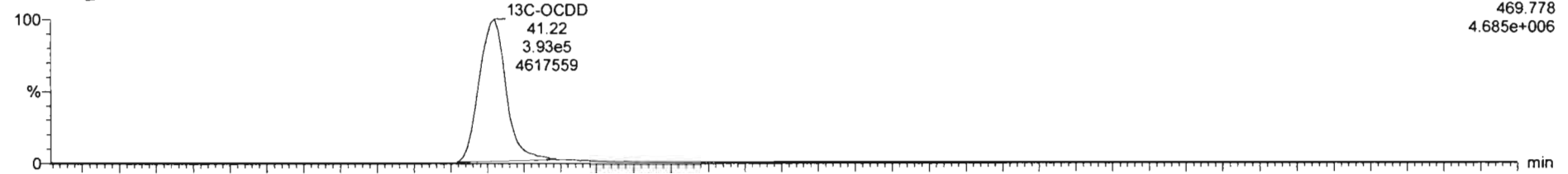
200307R1_2



F5: Voltage SIR, EI+
459.735
2.559e+006

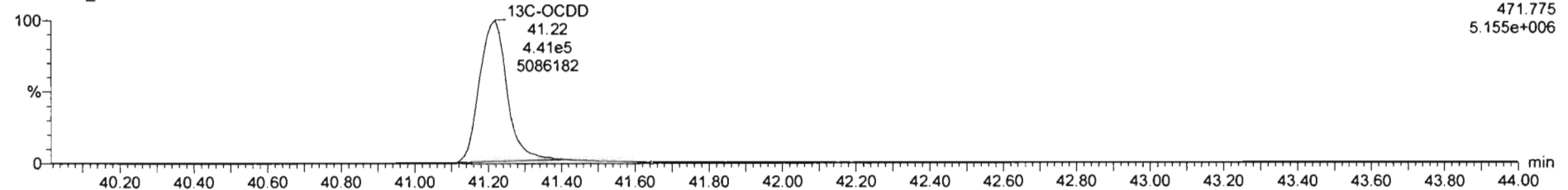
13C-OCDD

200307R1_2



F5: Voltage SIR, EI+
469.778
4.685e+006

200307R1_2



F5: Voltage SIR, EI+
471.775
5.155e+006

Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

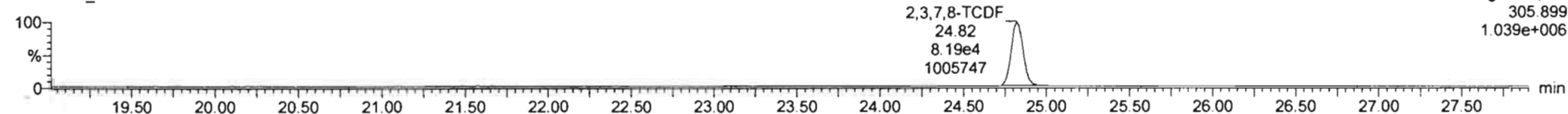
Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

2,3,7,8-TCDF

200307R1_2

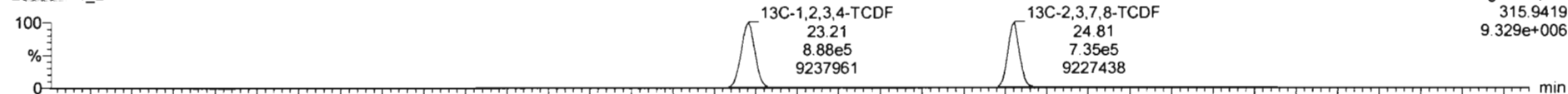


200307R1_2

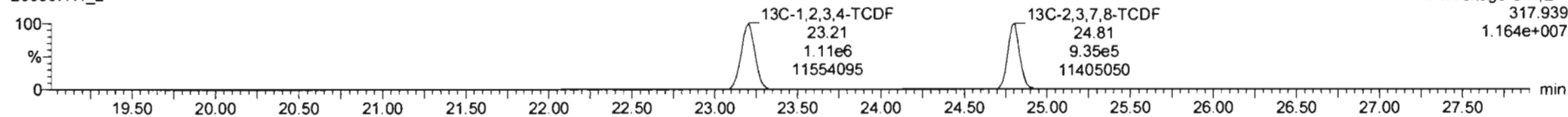


13C-2,3,7,8-TCDF

200307R1_2

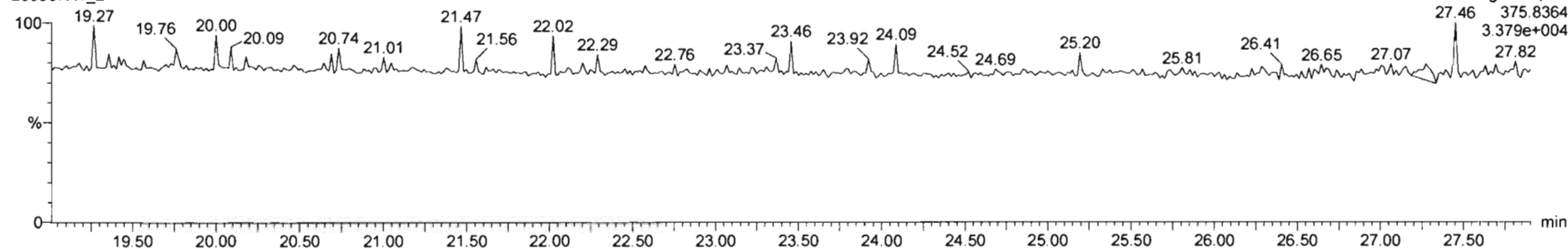


200307R1_2



DPE1

200307R1_2



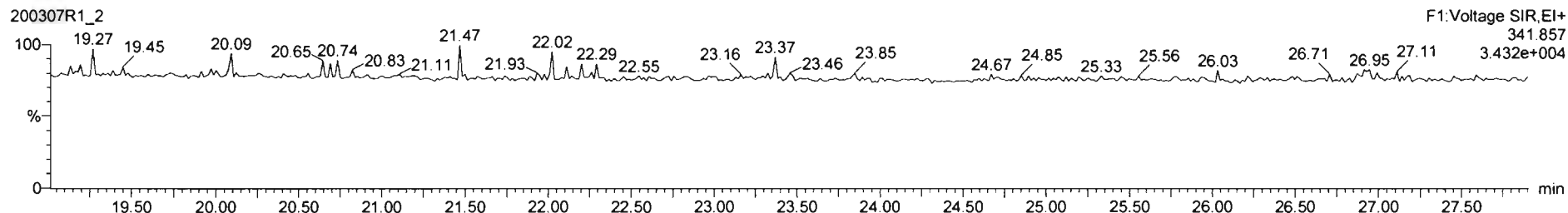
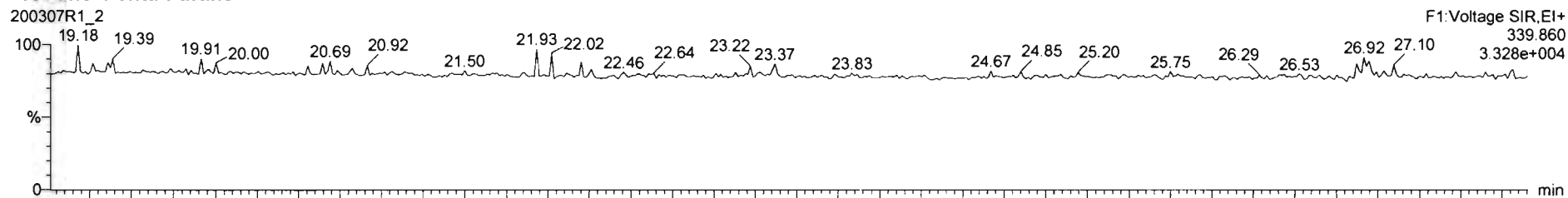
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

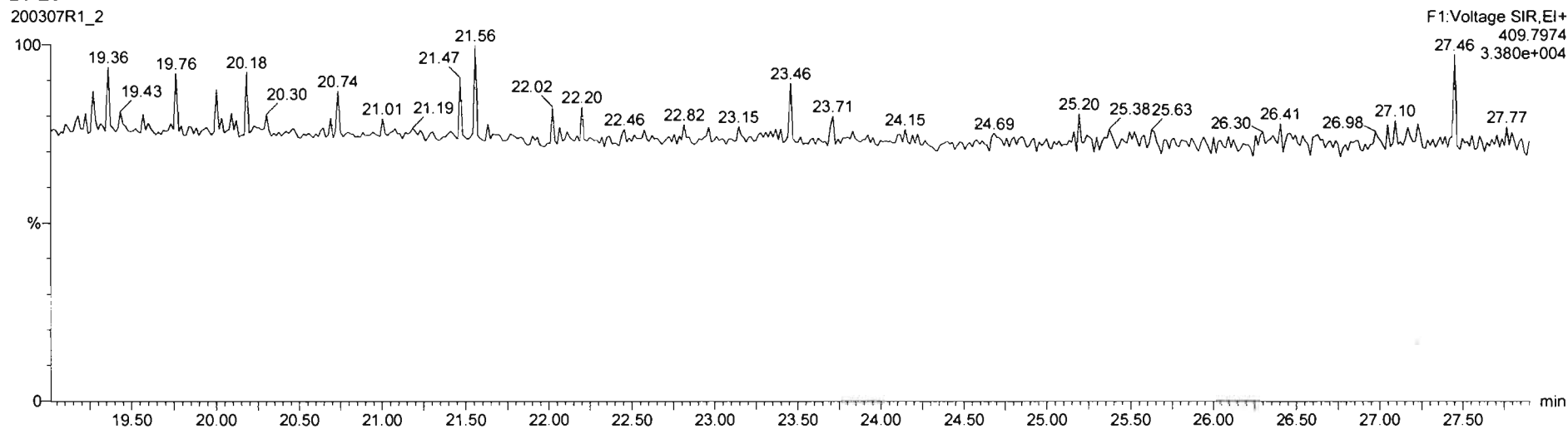
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans



DPE6



Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

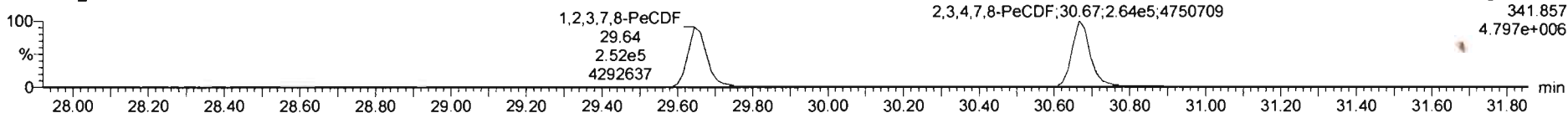
Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDF

200307R1_2

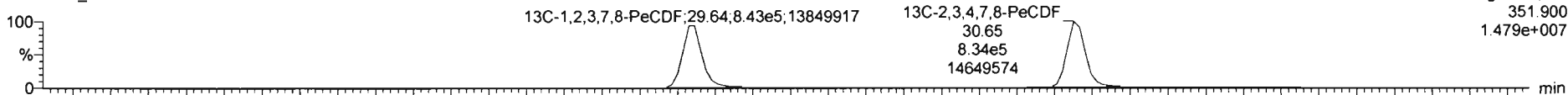


200307R1_2

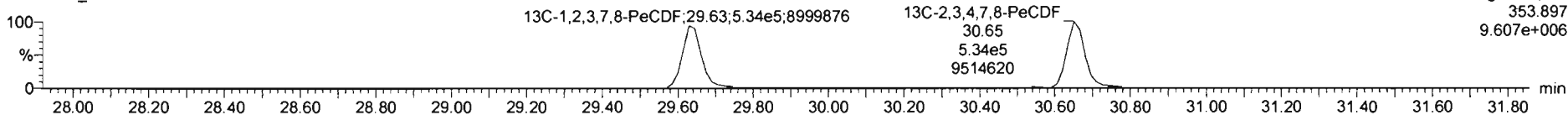


13C-1,2,3,7,8-PeCDF

200307R1_2

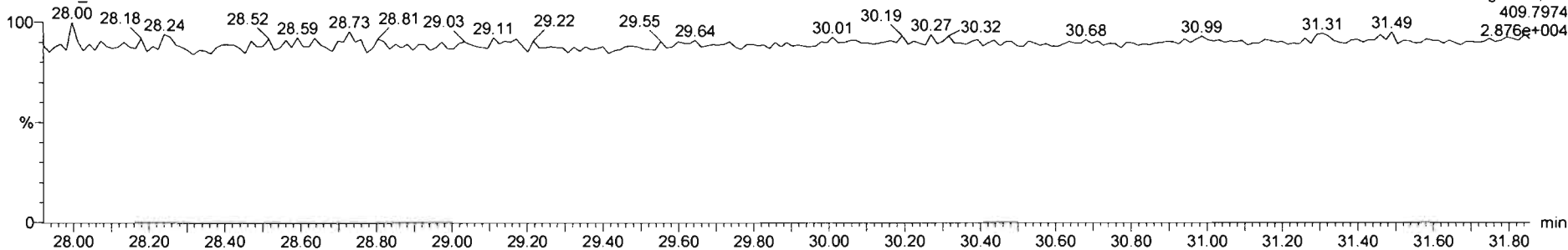


200307R1_2



DPE2

200307R1_2



Dataset: Untitled

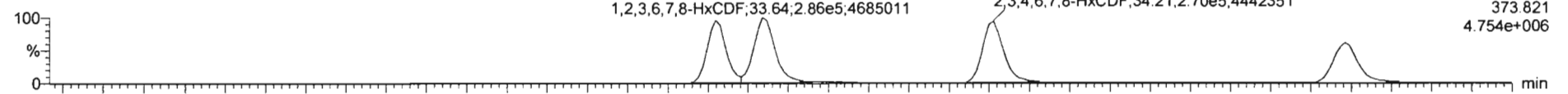
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

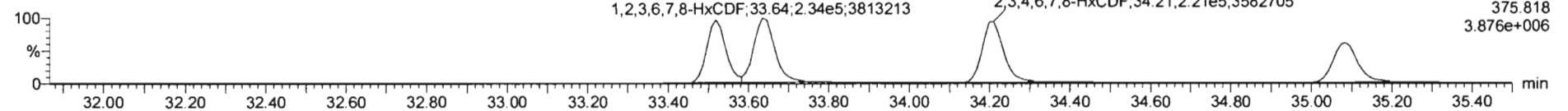
Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

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

200307R1_2

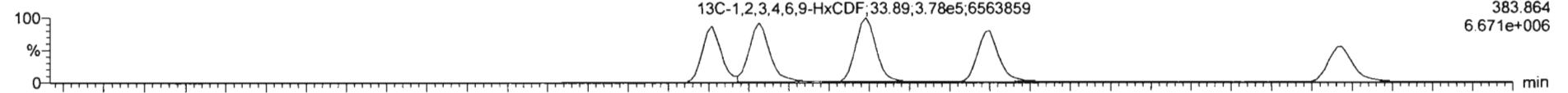


200307R1_2

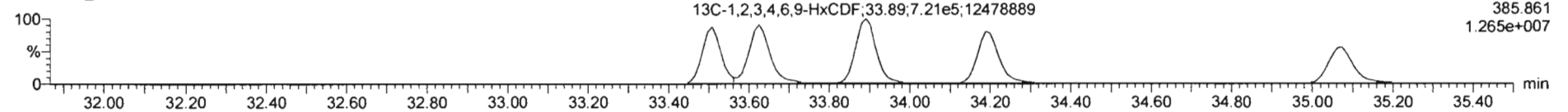


13C-1,2,3,4,7,8-HxCDF

200307R1_2

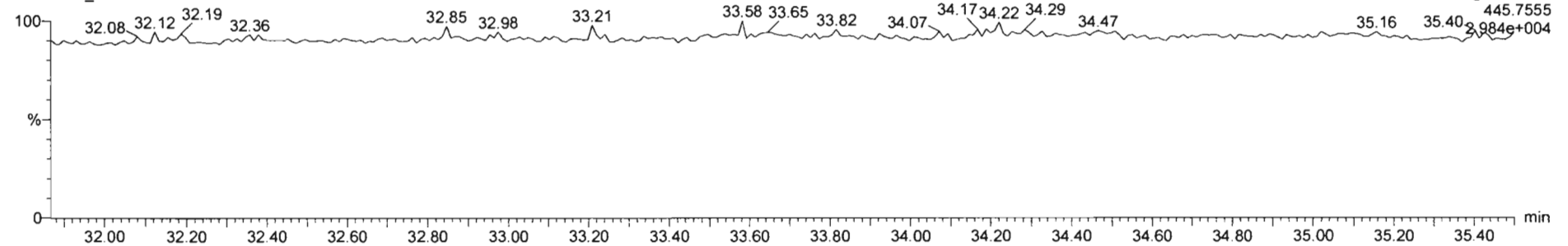


200307R1_2

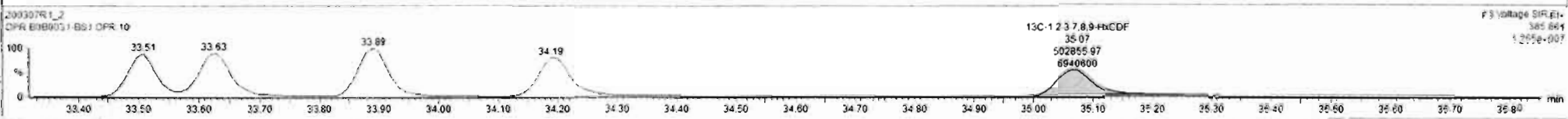


DPE3

200307R1_2



#	Name	Resp	RA	ny	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.10e5	0.78	NO	0.98	10.000	25.60	1.001	19.1		0.131	19.1
2	1,2,3,7,8-PeCDD	4.13e5	0.84	NO	0.92	10.000	30.99	1.000	97.6		0.230	97.6
3	1,2,3,4,7,8-HxCDD	3.52e5	1.23	NO	1.13	10.000	34.37	1.000	96.1		0.236	96.1
4	1,2,3,6,7,8-HxCDD	3.82e5	1.24	NO	0.98	10.000	34.48	1.001	99.4		0.240	99.4
5	1,2,3,7,8,9-HxCDD	3.41e5	1.28	NO	0.97	10.000	34.74	1.000	101		0.289	101
6	1,2,3,4,6,7,8-HpCDD	2.35e5	1.03	NO	1.01	10.000	38.19	1.000	95.3		0.451	95.3
7	OCDD	4.15e5	0.89	NO	1.05	10.000	41.23	1.000	169		0.389	169
8	2,3,7,8-TCDF	1.45e5	0.77	NO	0.92	10.000	24.82	1.001	19.0		0.112	19.0
9	1,2,3,7,8-PeCDF	6.43e5	1.55	NO	0.96	10.000	29.65	1.000	97.3		0.165	97.3
10	1,2,3,4,7,8-PeCDF	6.69e5	1.54	NO	1.00	10.000	30.67	1.000	97.4		0.149	97.4
11	1,2,3,4,7,8-HxCDF	4.47e5	1.21	NO	1.04	10.000	33.53	1.000	96.1		0.192	96.1
12	1,2,3,6,7,8-HxCDF	5.20e5	1.23	NO	1.01	10.000	33.64	1.000	96.3		0.184	96.3
13	2,3,4,6,7,8-HxCDF	4.91e5	1.22	NO	1.09	10.000	34.21	1.000	96.7		0.199	96.7
14	1,2,3,7,8,9-HxCDF	3.68e5	1.21	NO	1.03	10.000	35.08	1.000	93.4		0.307	93.4
15	1,2,3,4,6,7,8-HpCDF	3.24e5	0.99	NO	1.05	10.000	36.79	1.001	96.4		0.387	96.4
16	1,2,3,4,7,8,9-HpCDF	2.50e5	0.98	NO	1.21	10.000	38.83	1.001	96.5		0.484	96.5
17	OCDF	4.91e5	0.89	NO	0.95	10.000	41.41	1.000	190		0.390	190
18	13C-2,3,7,8-TCDD	1.18e6	0.80	NO	1.18	10.000	25.76	1.028	163	81.5	0.215	
19	13C-1,2,3,7,8-PeCDD	9.18e5	0.63	NO	0.86	10.000	30.97	1.238	174	87.1	0.287	
20	13C-1,2,3,4,7,8-HxCDD	6.47e5	1.28	NO	0.75	10.000	34.36	1.014	156	78.0	0.338	
21	13C-1,2,3,6,7,8-HxCDD	7.83e5	1.26	NO	0.93	10.000	34.46	1.017	154	77.0	0.275	



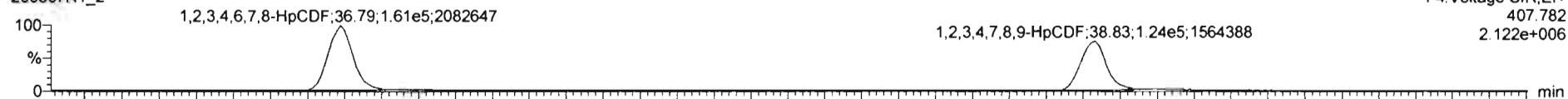
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

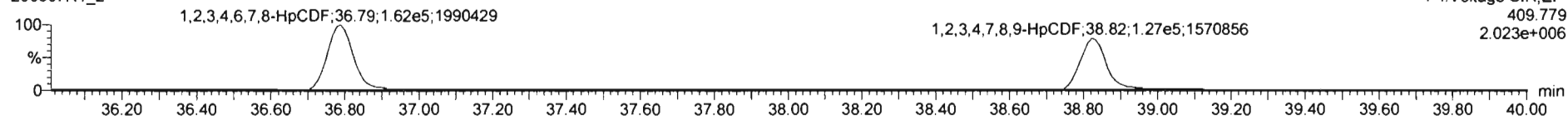
Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

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

200307R1_2

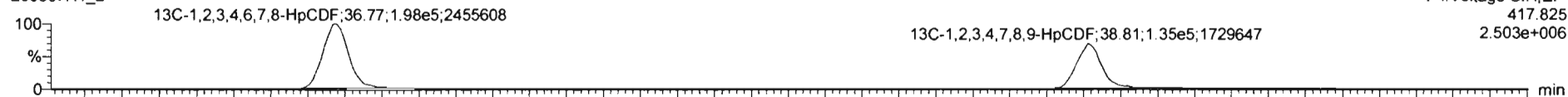


200307R1_2

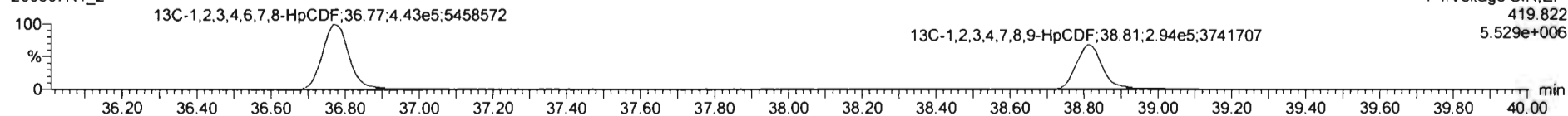


13C-1,2,3,4,6,7,8-HpCDF

200307R1_2

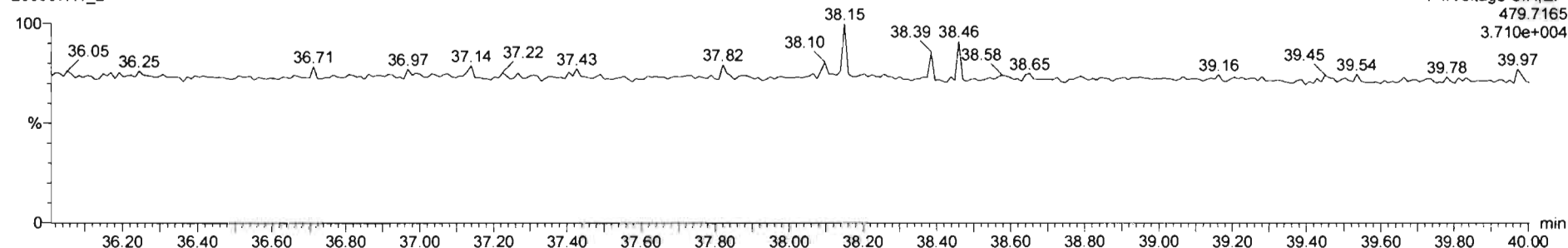


200307R1_2



DPE4

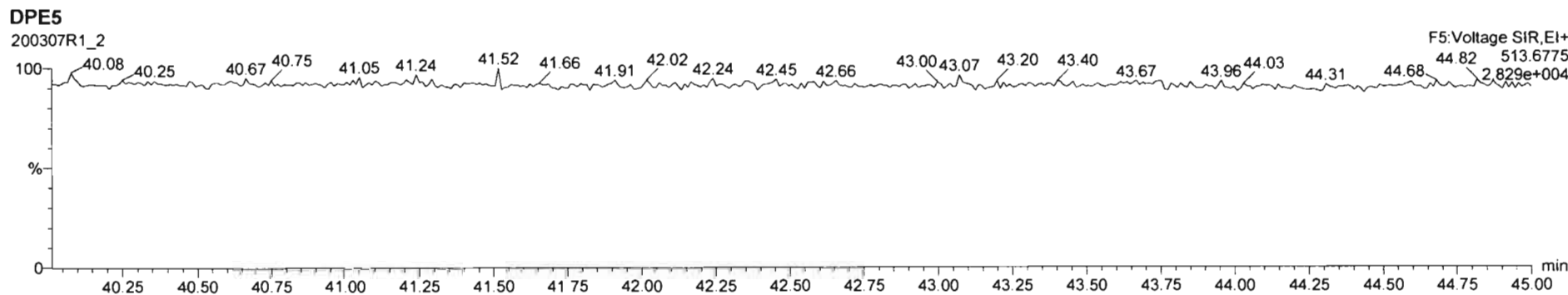
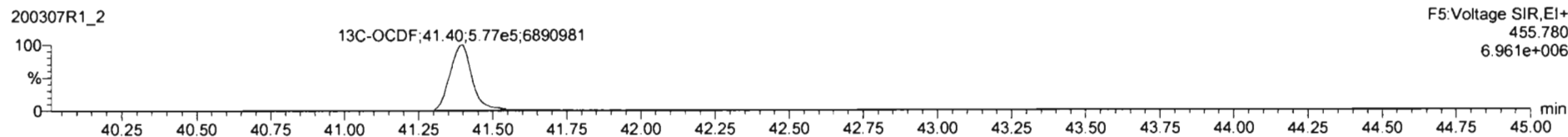
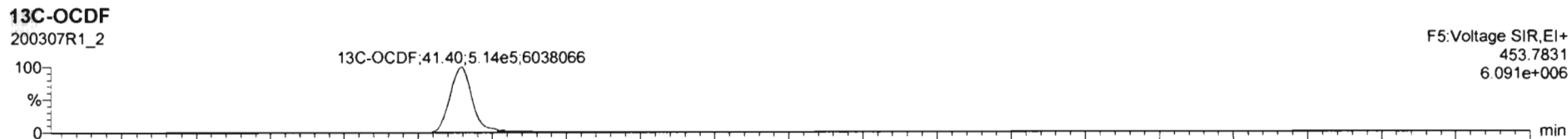
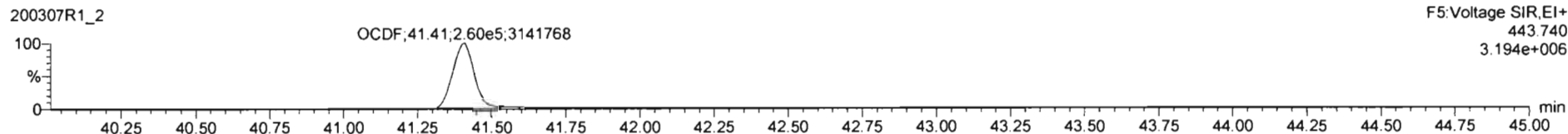
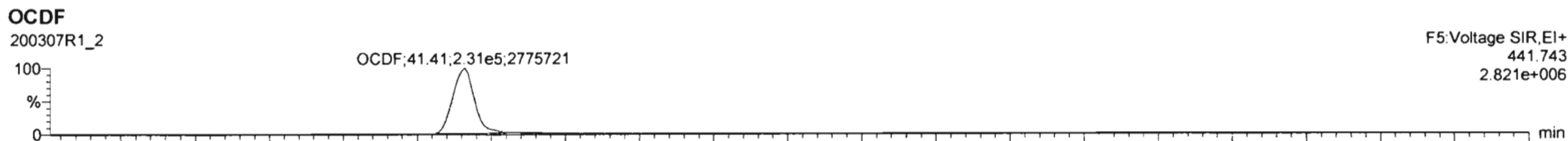
200307R1_2



Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

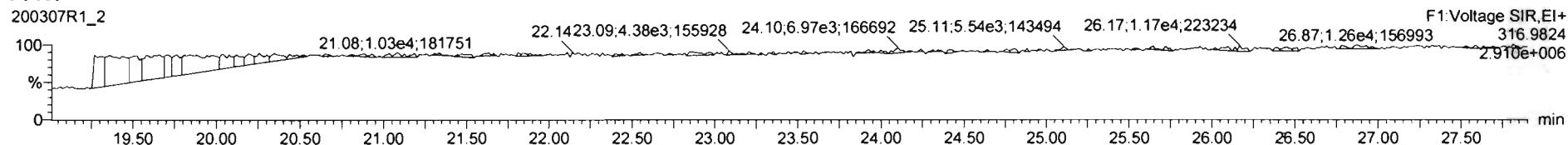


Dataset: Untitled

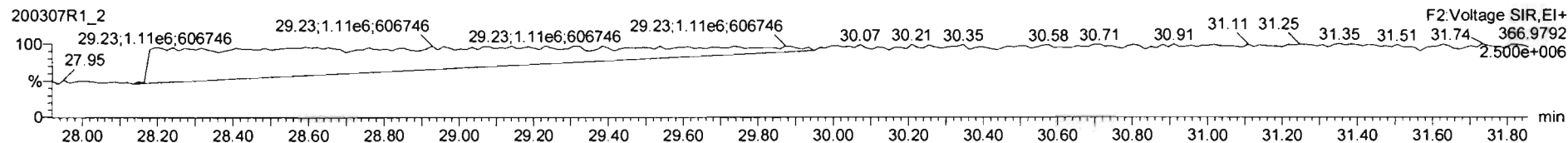
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_2, Date: 07-Mar-2020, Time: 10:32:33, ID: B0B0031-BS1 OPR 10, Description: OPR

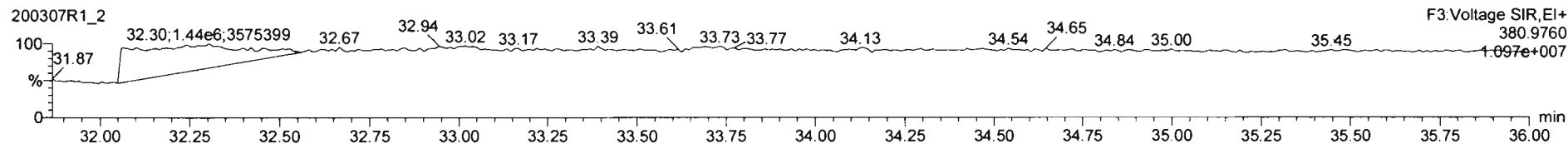
PFK1



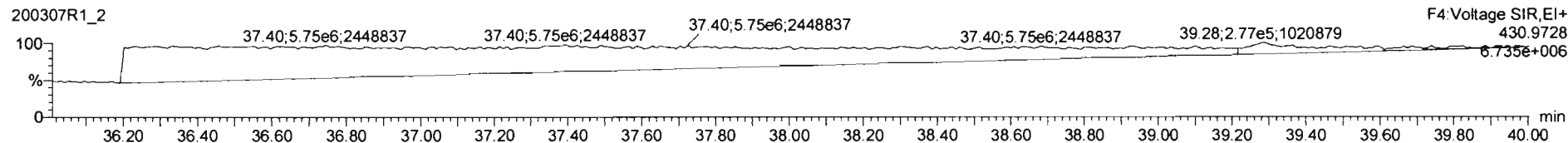
PFK2



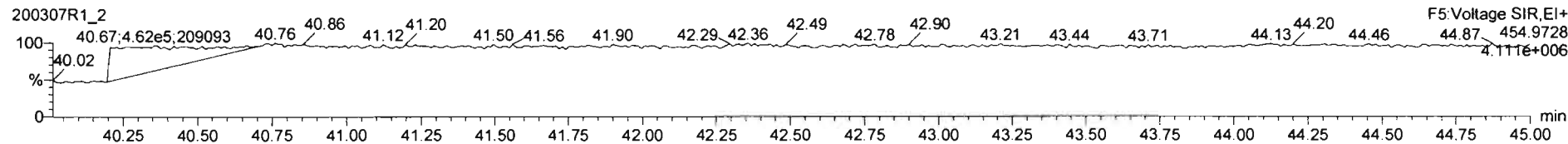
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200223R2\200223R2-12.qld

Last Altered: Friday, February 28, 2020 14:22:51 Pacific Standard Time
Printed: Friday, February 28, 2020 14:32:35 Pacific Standard Time

dy 02-28-2020
dl 3/11/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

#	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	18310.498	0.678	NO	0.988	10.131	25.77	25.75	1.00	1.00	NO	1.242		0.0599	1.242
2	2 1,2,3,7,8-PeCDD	28751.764	0.645	NO	0.972	10.131	30.83	30.82	1.00	1.00	NO	2.492		0.0545	2.492
3	3 1,2,3,4,7,8-HxCDD	28222.717	1.380	NO	1.07	10.131	34.19	34.19	1.00	1.00	NO	2.900		0.168	2.900
4	4 1,2,3,6,7,8-HxCDD	189382.688	1.238	NO	0.921	10.131	34.28	34.30	1.00	1.00	NO	19.01		0.175	19.01
5	5 1,2,3,7,8,9-HxCDD	82208.179	1.239	NO	0.918	10.131	34.59	34.56	1.00	1.00	NO	8.974		0.199	8.974
6	6 1,2,3,4,6,7,8-HpCDD	2721428.1...	1.013	NO	0.923	10.131	38.07	38.08	1.00	1.00	NO	374.8		0.961	374.8
7	7 OCDD	21017765....	0.888	NO	0.975	10.131	41.17	41.18	1.00	1.00	NO	3565		0.498	3565
8	8 2,3,7,8-TCDF	757876.563	0.755	NO	0.802	10.131	24.82	24.82	1.00	1.00	NO	52.10	(46.75)	0.101	52.10
9	9 1,2,3,7,8-PeCDF	1406187.3...	1.555	NO	0.907	10.131	29.53	29.52	1.00	1.00	NO	94.32		0.149	94.32
10	10 2,3,4,7,8-PeCDF	647234.172	1.543	NO	0.952	10.131	30.53	30.51	1.00	1.00	NO	43.83		0.142	43.83
11	11 1,2,3,4,7,8-HxCDF	2269675.8...	1.210	NO	0.862	10.131	33.32	33.34	1.00	1.00	NO	220.0		0.184	220.0
12	12 1,2,3,6,7,8-HxCDF	597302.313	1.235	NO	0.841	10.131	33.45	33.46	1.00	1.00	NO	55.64		0.190	55.64
13	13 2,3,4,6,7,8-HxCDF	139618.812	1.211	NO	0.898	10.131	34.04	34.03	1.00	1.00	NO	13.75		0.206	13.75
14	14 1,2,3,7,8,9-HxCDF	31539.944	1.194	NO	0.858	10.131	34.90	34.91	1.00	1.00	NO	3.717		0.280	3.717
15	15 1,2,3,4,6,7,8-HpCDF	794943.969	1.006	NO	0.851	10.131	36.67	36.65	1.00	1.00	NO	113.1		0.334	113.1
16	16 1,2,3,4,7,8,9-HpCDF	186647.843	1.011	NO	0.980	10.131	38.69	38.72	1.00	1.00	NO	30.50		0.377	30.50
17	17 OCDF	1282329.0...	0.871	NO	0.806	10.131	41.34	41.36	1.00	1.00	NO	223.9		0.212	223.9
18	18 13C-2,3,7,8-TCDD	2946096.2...	0.779	NO	1.20	10.131	25.71	25.74	1.03	1.03	NO	185.8	94.1	0.213	
19	19 13C-1,2,3,7,8-PeCDD	2342388.5...	0.626	NO	0.967	10.131	30.45	30.80	1.22	1.23	NO	183.2	92.8	0.131	
20	20 13C-1,2,3,4,7,8-HxCDD	1793984.3...	1.252	NO	0.874	10.131	34.18	34.18	1.01	1.01	NO	160.4	81.3	0.224	
21	21 13C-1,2,3,6,7,8-HxCDD	2135426.2...	1.274	NO	1.05	10.131	34.28	34.28	1.02	1.02	NO	159.6	80.8	0.187	
22	22 13C-1,2,3,7,8,9-HxCDD	1969716.6...	1.255	NO	0.974	10.131	34.59	34.55	1.03	1.02	NO	158.0	80.0	0.201	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1552910.3...	1.043	NO	0.747	10.131	38.16	38.06	1.13	1.13	NO	162.4	82.3	0.324	
24	24 13C-OCDD	2388379.5...	0.901	NO	0.707	10.131	41.06	41.17	1.22	1.22	NO	264.2	66.9	0.216	
25	25 13C-2,3,7,8-TCDF	3581084.2...	0.778	NO	1.07	10.131	24.89	24.79	0.99	0.99	NO	183.4	92.9	0.268	
26	26 13C-1,2,3,7,8-PeCDF	3243841.1...	1.585	NO	1.00	10.131	29.47	29.51	1.18	1.18	NO	176.6	89.5	0.259	
27	27 13C-2,3,4,7,8-PeCDF	3063833.6...	1.579	NO	0.962	10.131	30.44	30.50	1.21	1.22	NO	173.8	88.0	0.270	
28	28 13C-1,2,3,4,7,8-HxCDF	2361681.0...	0.514	NO	1.05	10.131	33.31	33.32	0.99	0.99	NO	175.9	89.1	0.267	
29	29 13C-1,2,3,6,7,8-HxCDF	2518925.1...	0.518	NO	1.19	10.131	33.41	33.44	0.99	0.99	NO	165.5	83.8	0.236	
30	30 13C-2,3,4,6,7,8-HxCDF	2232555.5...	0.516	NO	1.07	10.131	34.02	34.01	1.01	1.01	NO	163.6	82.9	0.263	
31	31 13C-1,2,3,7,8,9-HxCDF	1952862.6...	0.513	NO	0.922	10.131	34.92	34.90	1.04	1.04	NO	165.5	83.8	0.304	

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-12.qld

Last Altered: Friday, February 28, 2020 14:22:51 Pacific Standard Time

Printed: Friday, February 28, 2020 14:32:35 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	1629864.1...	0.445	NO	0.767	10.131	36.68	36.63	1.09	1.09	NO	166.0	84.1	0.318	
33	13C-1,2,3,4,7,8,9-HpCDF	1232843.4...	0.439	NO	0.552	10.131	38.70	38.69	1.15	1.15	NO	174.4	88.4	0.442	
34	13C-OCDF	2807085.6...	0.873	NO	0.789	10.131	41.29	41.34	1.23	1.23	NO	277.9	70.4	0.233	
35	37Cl-2,3,7,8-TCDD	1131538.1...			1.18	10.131	25.74	25.75	1.03	1.03	NO	72.71	92.1	0.0516	
36	13C-1,2,3,4-TCDD	2611762.1...	0.782	NO	1.00	10.131	25.11	25.06	1.00	1.00	NO	197.4	100	0.255	
37	13C-1,2,3,4-TCDF	3619044.6...	0.790	NO	1.00	10.131	23.37	23.30	1.00	1.00	NO	197.4	100	0.286	
38	13C-1,2,3,4,6,9-HxCDF	2526010.5...	0.514	NO	1.00	10.131	33.71	33.71	1.00	1.00	NO	197.4	100	0.281	
39	Total Tetra-Dioxins				0.988	10.131	24.62		0.00		NO	12.08		0.0599	12.33
40	Total Penta-Dioxins				0.972	10.131	29.96		0.00		NO	19.85		0.0545	20.24
41	Total Hexa-Dioxins				0.921	10.131	33.63		0.00		NO	153.8		0.189	153.8
42	Total Hepta-Dioxins				0.923	10.131	37.64		0.00		NO	812.5		0.961	812.5
43	Total Tetra-Furans				0.802	10.131	23.61		0.00		NO	173.1		0.101	178.3
44	1st Func. Penta-Furans				0.907	10.131	27.09		0.00		NO	27.86		0.0260	27.86
45	Total Penta-Furans				0.907	10.131	29.27		0.00		NO	240.5		0.149	240.9
46	Total Hexa-Furans				0.898	10.131	33.56		0.00		NO	418.9		0.204	419.8
47	Total Hepta-Furans				0.851	10.131	37.83		0.00		NO	318.8		0.377	318.8

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-12.qld

Last Altered: Friday, February 28, 2020 14:22:51 Pacific Standard Time

Printed: Friday, February 28, 2020 14:32:52 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	4.58e4	2.95e6	0.783	NO	24.62	25.48	3.105	3.105
2	39 Total Tetra-Dioxins	4.86e3	2.95e6	0.871	NO	24.62	25.05	0.3294	0.3294
3	39 Total Tetra-Dioxins	0.00e0	2.95e6	0.898	YES	24.62	24.67	0.0000	0.2543
4	39 Total Tetra-Dioxins	4.60e3	2.95e6	0.786	NO	24.62	24.48	0.3117	0.3117
5	39 Total Tetra-Dioxins	2.95e3	2.95e6	0.703	NO	24.62	24.21	0.2000	0.2000
6	39 Total Tetra-Dioxins	1.30e4	2.95e6	0.800	NO	24.62	23.97	0.8831	0.8831
7	39 Total Tetra-Dioxins	9.52e3	2.95e6	0.808	NO	24.62	23.74	0.6453	0.6453
8	39 Total Tetra-Dioxins	5.36e3	2.95e6	0.793	NO	24.62	23.48	0.3632	0.3632
9	39 Total Tetra-Dioxins	7.48e3	2.95e6	0.723	NO	24.62	22.55	0.5072	0.5072
10	39 Total Tetra-Dioxins	1.76e4	2.95e6	0.741	NO	24.62	22.04	1.193	1.193
11	39 Total Tetra-Dioxins	4.38e4	2.95e6	0.791	NO	24.62	21.62	2.971	2.971
12	39 Total Tetra-Dioxins	4.82e3	2.95e6	0.862	NO	24.62	26.08	0.3268	0.3268
13	1 2,3,7,8-TCDD	1.83e4	2.95e6	0.678	NO	25.77	25.75	1.242	1.242

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	5.57e3	2.34e6	0.654	NO	29.96	30.39	0.4829	0.4829
2	40 Total Penta-Dioxins	2.89e4	2.34e6	0.666	NO	29.96	30.04	2.503	2.503
3	40 Total Penta-Dioxins	1.62e4	2.34e6	0.631	NO	29.96	29.83	1.407	1.407
4	40 Total Penta-Dioxins	2.99e4	2.34e6	0.597	NO	29.96	29.74	2.595	2.595
5	40 Total Penta-Dioxins	3.42e4	2.34e6	0.631	NO	29.96	29.57	2.961	2.961
6	40 Total Penta-Dioxins	1.49e4	2.34e6	0.592	NO	29.96	29.05	1.288	1.288
7	40 Total Penta-Dioxins	6.24e4	2.34e6	0.603	NO	29.96	28.58	5.412	5.412
8	40 Total Penta-Dioxins	8.15e3	2.34e6	0.679	NO	29.96	31.22	0.7067	0.7067
9	40 Total Penta-Dioxins	0.00e0	2.34e6	0.486	YES	29.96	30.91	0.0000	0.3901
10	2 1,2,3,7,8-PeCDD	2.88e4	2.34e6	0.645	NO	30.83	30.82	2.492	2.492

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-12.qld

Last Altered: Friday, February 28, 2020 14:22:51 Pacific Standard Time

Printed: Friday, February 28, 2020 14:32:52 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	8.22e4	1.97e6	1.239	NO	34.59	34.56	8.974	8.974
2	41 Total Hexa-Dioxins	1.42e4	0.00e0	1.150	NO	33.63	34.49	1.544	1.544
3	4 1,2,3,6,7,8-HxCDD	1.89e5	2.14e6	1.238	NO	34.28	34.30	19.01	19.01
4	3 1,2,3,4,7,8-HxCDD	2.82e4	1.79e6	1.380	NO	34.19	34.19	2.900	2.900
5	41 Total Hexa-Dioxins	6.51e5	0.00e0	1.235	NO	33.63	33.53	70.94	70.94
6	41 Total Hexa-Dioxins	5.17e4	0.00e0	1.244	NO	33.63	33.27	5.634	5.634
7	41 Total Hexa-Dioxins	4.11e5	0.00e0	1.241	NO	33.63	32.72	44.80	44.80

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.72e6	1.55e6	1.013	NO	38.07	38.08	374.8	374.8
2	42 Total Hepta-Dioxins	3.18e6	1.55e6	1.021	NO	37.64	37.03	437.7	437.7

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-12.qld
 Last Altered: Friday, February 28, 2020 14:22:51 Pacific Standard Time
 Printed: Friday, February 28, 2020 14:32:52 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	2.83e4	3.58e6	0.752	NO	23.61	20.09	1.945	1.945
2	43 Total Tetra-Furans	1.43e4	3.58e6	0.748	NO	23.61	19.58	0.9799	0.9799
3	43 Total Tetra-Furans	9.87e4	3.58e6	0.752	NO	23.61	24.70	6.783	6.783
4	43 Total Tetra-Furans	1.09e4	3.58e6	0.766	NO	23.61	24.58	0.7470	0.7470
5	43 Total Tetra-Furans	1.42e4	3.58e6	0.781	NO	23.61	24.36	0.9769	0.9769
6	43 Total Tetra-Furans	3.40e4	3.58e6	0.766	NO	23.61	24.15	2.334	2.334
7	43 Total Tetra-Furans	6.10e5	3.58e6	0.757	NO	23.61	23.85	41.92	41.92
8	43 Total Tetra-Furans	1.66e5	3.58e6	0.759	NO	23.61	23.31	11.38	11.38
9	43 Total Tetra-Furans	5.86e4	3.58e6	0.743	NO	23.61	23.19	4.027	4.027
10	43 Total Tetra-Furans	1.77e4	3.58e6	0.813	NO	23.61	23.03	1.220	1.220
11	43 Total Tetra-Furans	9.98e3	3.58e6	0.875	NO	23.61	22.89	0.6863	0.6863
12	43 Total Tetra-Furans	5.50e4	3.58e6	0.785	NO	23.61	22.41	3.783	3.783
13	43 Total Tetra-Furans	2.72e4	3.58e6	0.759	NO	23.61	22.22	1.869	1.869
14	43 Total Tetra-Furans	8.24e4	3.58e6	0.755	NO	23.61	22.07	5.661	5.661
15	43 Total Tetra-Furans	2.43e5	3.58e6	0.756	NO	23.61	21.59	16.67	16.67
16	43 Total Tetra-Furans	8.08e4	3.58e6	0.754	NO	23.61	21.22	5.552	5.552
17	43 Total Tetra-Furans	1.30e5	3.58e6	0.763	NO	23.61	20.66	8.944	8.944
18	43 Total Tetra-Furans	0.00e0	3.58e6	1.155	YES	23.61	26.89	0.0000	5.203
19	43 Total Tetra-Furans	1.09e4	3.58e6	0.858	NO	23.61	25.47	0.7473	0.7473
20	43 Total Tetra-Furans	6.95e4	3.58e6	0.783	NO	23.61	25.21	4.778	4.778
21	8 2,3,7,8-TCDF	7.58e5	3.58e6	0.755	NO	24.82	24.82	52.10	52.10

Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	4.04e5	0.00e0	1.545	NO	27.09	26.89	27.86	27.86

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-12.qld

Last Altered: Friday, February 28, 2020 14:22:51 Pacific Standard Time

Printed: Friday, February 28, 2020 14:32:52 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	6.47e5	3.06e6	1.543	NO	30.53	30.51	43.83	43.83
2	45 Total Penta-Furans	1.52e4	0.00e0	1.475	NO	29.27	30.41	1.051	1.051
3	45 Total Penta-Furans	4.39e5	0.00e0	1.536	NO	29.27	29.80	30.25	30.25
4	9 1,2,3,7,8-PeCDF	1.41e6	3.24e6	1.555	NO	29.53	29.52	94.32	94.32
5	45 Total Penta-Furans	1.09e5	0.00e0	1.599	NO	29.27	29.34	7.543	7.543
6	45 Total Penta-Furans	1.04e5	0.00e0	1.582	NO	29.27	29.11	7.199	7.199
7	45 Total Penta-Furans	0.00e0	0.00e0	1.847	YES	29.27	28.90	0.0000	0.3622
8	45 Total Penta-Furans	7.45e5	0.00e0	1.540	NO	29.27	28.52	51.37	51.37
9	45 Total Penta-Furans	4.60e4	0.00e0	1.510	NO	29.27	28.36	3.174	3.174
10	45 Total Penta-Furans	2.56e4	0.00e0	1.498	NO	29.27	31.44	1.766	1.766

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	0.00e0	0.00e0	1.691	YES	33.56	33.73	0.0000	0.8881
2	12 1,2,3,6,7,8-HxCDF	5.97e5	2.52e6	1.235	NO	33.45	33.46	55.64	55.64
3	11 1,2,3,4,7,8-HxCDF	2.27e6	2.36e6	1.210	NO	33.32	33.34	220.0	220.0
4	46 Total Hexa-Furans	1.71e4	0.00e0	1.208	NO	33.56	33.23	1.654	1.654
5	46 Total Hexa-Furans	5.05e5	0.00e0	1.222	NO	33.56	32.88	48.99	48.99
6	46 Total Hexa-Furans	9.12e3	0.00e0	1.275	NO	33.56	32.70	0.8847	0.8847
7	46 Total Hexa-Furans	4.68e5	0.00e0	1.223	NO	33.56	32.34	45.42	45.42
8	46 Total Hexa-Furans	1.30e5	0.00e0	1.216	NO	33.56	32.17	12.60	12.60
9	14 1,2,3,7,8,9-HxCDF	3.15e4	1.95e6	1.194	NO	34.90	34.91	3.717	3.717
10	13 2,3,4,6,7,8-HxCDF	1.40e5	2.23e6	1.211	NO	34.04	34.03	13.75	13.75
11	46 Total Hexa-Furans	1.67e5	0.00e0	1.204	NO	33.56	34.95	16.23	16.23

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-12.qld

Last Altered: Friday, February 28, 2020 14:22:51 Pacific Standard Time

Printed: Friday, February 28, 2020 14:32:52 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	1.87e5	1.23e6	1.011	NO	38.69	38.72	30.50	30.50
2	47 Total Hepta-Furans	1.07e6	0.00e0	1.019	NO	37.83	37.24	173.2	173.2
3	47 Total Hepta-Furans	1.23e4	0.00e0	1.030	NO	37.83	37.02	2.000	2.000
4	15 1,2,3,4,6,7,8-HpCDF	7.95e5	1.63e6	1.006	NO	36.67	36.65	113.1	113.1

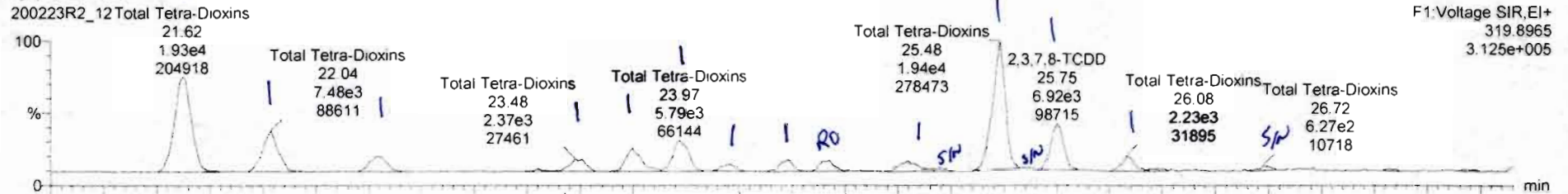
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

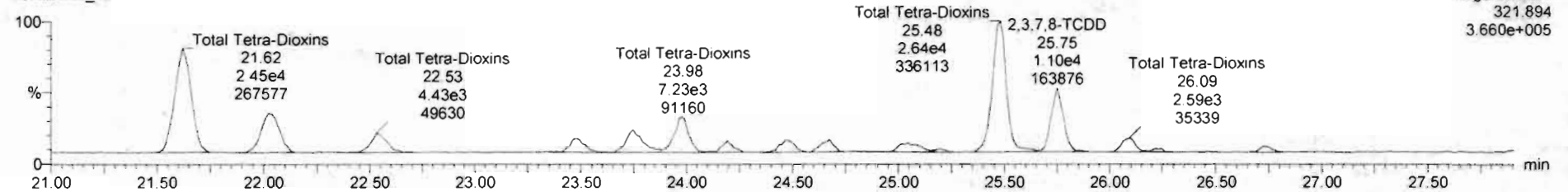
dy 02-28-2020

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

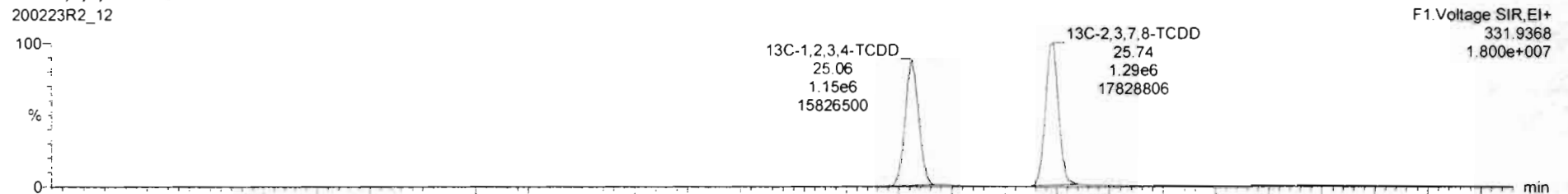
2,3,7,8-TCDD



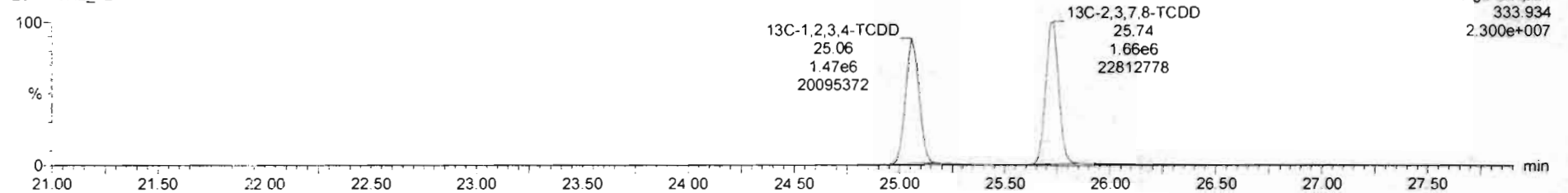
200223R2_12



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

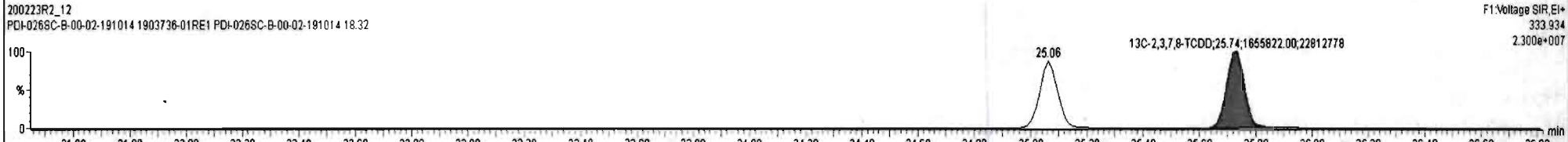
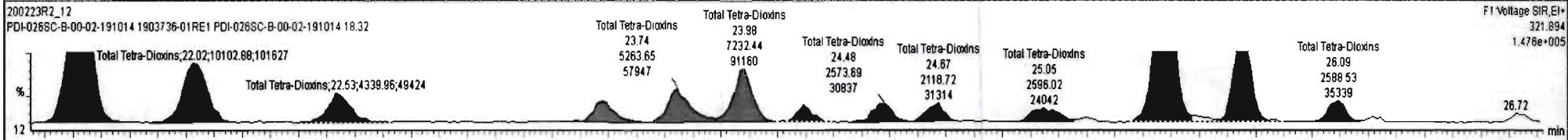
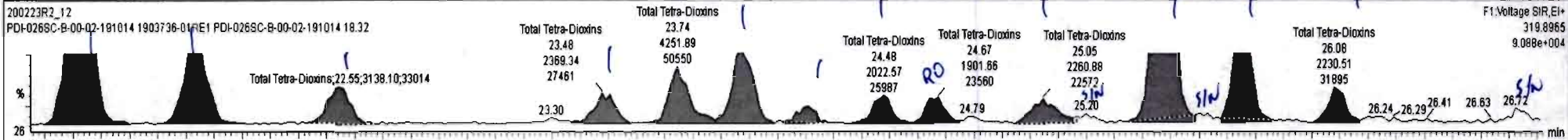


200223R2_12



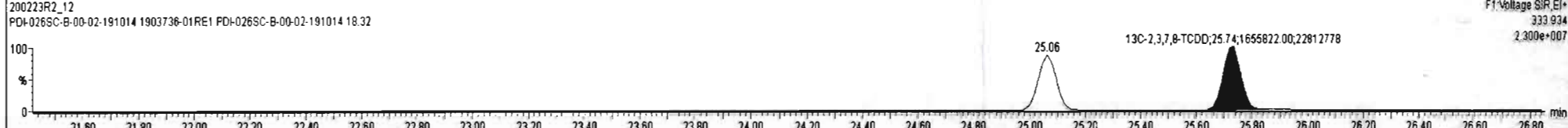
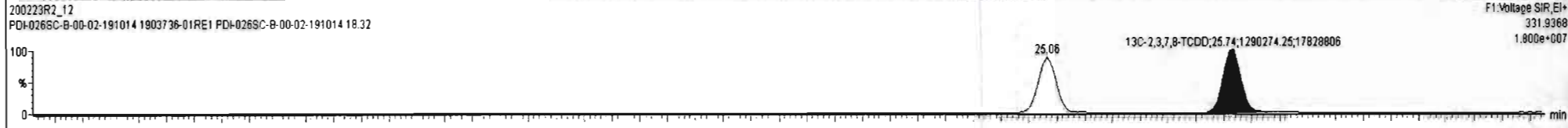
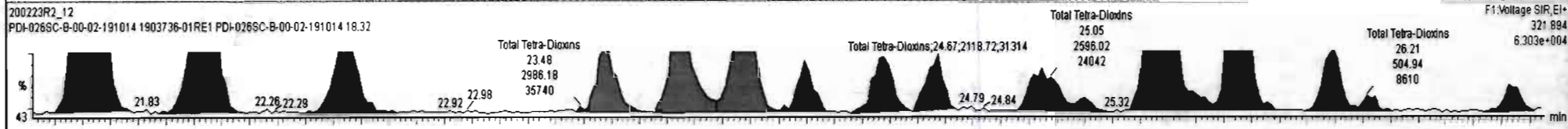
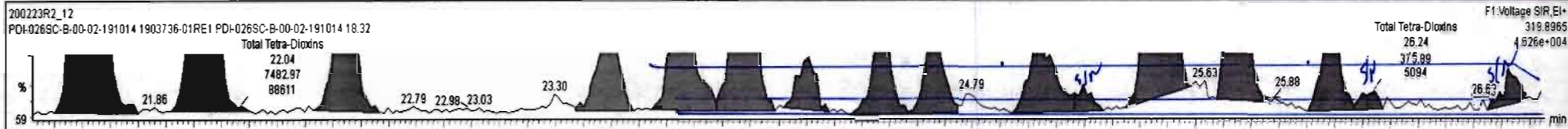
#	Name	Resp	RA	n/y	RRF	wtAve	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.131	24.62		0.000		NO	12.06		0.0699	12.33
40	Total Penta-Dioxins				0.9723	10.131	29.96		0.000		NO	20.37		0.0545	20.37

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.62	1.935e4	2.445e4	0.770	0.79	NO	2.9705	2.9705
2	39 Total Tetra-Dioxins	24.62	22.04	7.483e3	1.010e4	0.770	0.74	NO	1.1927	1.1927
3	39 Total Tetra-Dioxins	24.62	22.55	3.139e3	4.340e3	0.770	0.72	NO	0.50716	0.50716
4	39 Total Tetra-Dioxins	24.62	23.48	2.369e3	2.986e3	0.770	0.79	NO	0.36321	0.36321
5	39 Total Tetra-Dioxins	24.62	23.74	4.252e3	5.264e3	0.770	0.81	NO	0.64534	0.64534
6	39 Total Tetra-Dioxins	24.62	23.97	5.789e3	7.232e3	0.770	0.80	NO	0.88307	0.88307
7	39 Total Tetra-Dioxins	24.62	24.21	1.217e3	1.732e3	0.770	0.70	NO	0.20001	0.20001
8	39 Total Tetra-Dioxins	24.62	24.48	2.023e3	2.574e3	0.770	0.79	NO	0.31172	0.31172
9	39 Total Tetra-Dioxins	24.62	24.67	1.902e3	2.119e3	0.770	0.90	YES	0.25433	0.00000
10	39 Total Tetra-Dioxins	24.62	25.05	2.261e3	2.596e3	0.770	0.87	NO	0.32939	0.32939
11	39 Total Tetra-Dioxins	24.62	25.48	2.010e4	2.569e4	0.770	0.78	NO	3.1052	3.1052
12	1 2,3,7,8-TCDD	25.77	25.75	7.402e3	1.091e4	0.770	0.68	NO	1.2418	1.2418
13	39 Total Tetra-Dioxins	24.62	26.08	2.731e3	2.439e3	0.770	0.86	NO	0.23683	0.23683



#	Name	Resp	RA	n/y	RRF	wtAval	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.131	24.62		0.000		NO	10.43		0.0599	12.38
40	Total Penta-Dioxins				0.9723	10.131	29.96		0.000		NO	20.37		0.0545	20.37
41	Total Hexa-Dioxins				0.9211	10.131	33.63		0.000		NO	153.1		0.189	153.7
42	Total Hepta-Dioxins				0.9231	10.131	37.64		0.000		NO	812.5		0.961	812.6
43	Total Tetra-Furans				0.8020	10.131	23.61		0.000		NO	169.6		0.101	174.9
44	1st Func. Penta-Furans				0.9074	10.131	27.09		0.000		NO	27.86		0.0260	27.86

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.62	1.935e4	2.445e4	0.770	0.79	NO	2.9710	2.9705
2	39 Total Tetra-Dioxins	24.62	22.04	7.483e3	1.010e4	0.770	0.74	NO	1.1930	1.1927
3	39 Total Tetra-Dioxins	24.62	22.55	3.139e3	4.434e3	0.770	0.71	NO	0.51400	0.51361
4	39 Total Tetra-Dioxins	24.62	23.48	2.369e3	2.986e3	0.770	0.79	NO	0.36300	0.36321
5	39 Total Tetra-Dioxins	24.62	23.74	4.252e3	5.264e3	0.770	0.81	NO	0.64500	0.64534
6	39 Total Tetra-Dioxins	24.62	23.97	5.788e3	7.232e3	0.770	0.80	NO	0.88300	0.88307
7	39 Total Tetra-Dioxins	24.62	24.21	1.159e3	1.828e3	0.770	0.63	YES	0.18100	0.00000
8	39 Total Tetra-Dioxins	24.62	24.48	2.023e3	2.574e3	0.770	0.79	NO	0.31200	0.31172
9	39 Total Tetra-Dioxins	24.62	24.67	1.902e3	2.119e3	0.770	0.90	YES	0.25400	0.00000
10	39 Total Tetra-Dioxins	24.62	25.05	2.352e3	2.599e3	0.770	0.91	YES	0.31200	0.00000
11	39 Total Tetra-Dioxins	24.62	25.20	4.454e2	5.122e2	0.770	0.87	NO	0.065000	0.064946



Dataset: Untitled

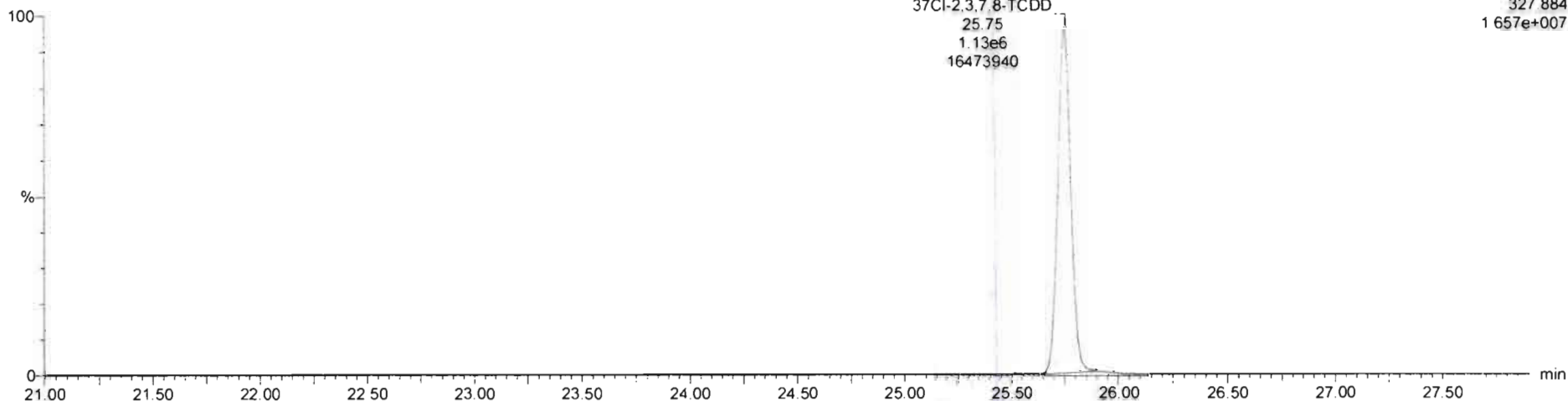
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

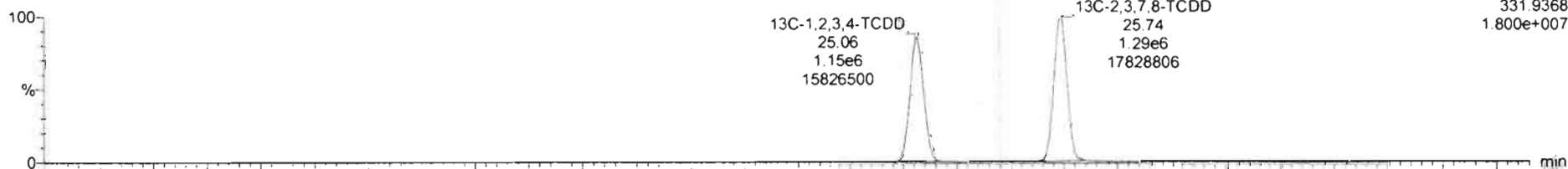
37Cl-2,3,7,8-TCDD

200223R2_12

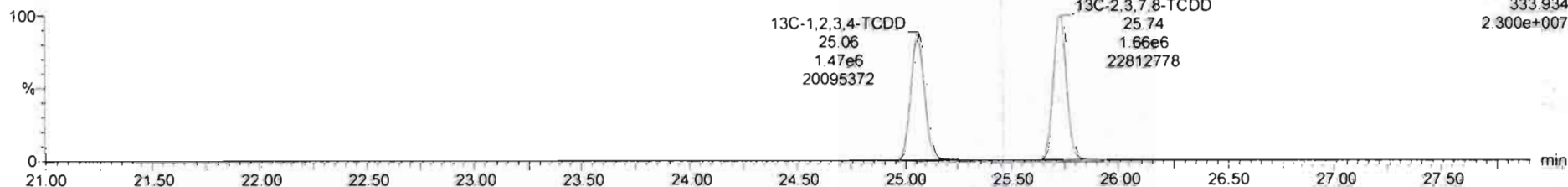


13C-1,2,3,4-TCDD

200223R2_12



200223R2_12



Dataset: Untitled

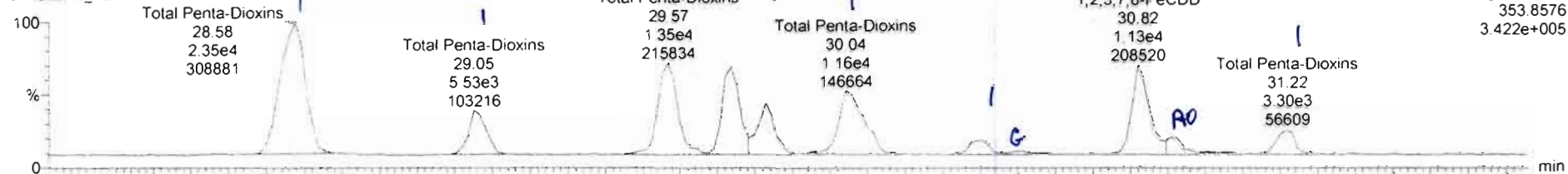
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

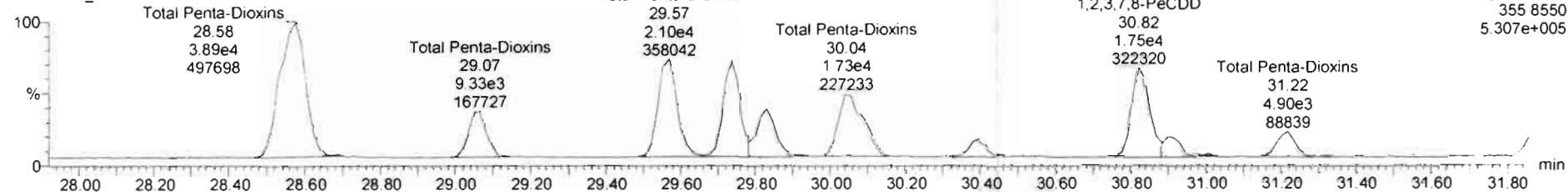
Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

1,2,3,7,8-PeCDD

200223R2_12

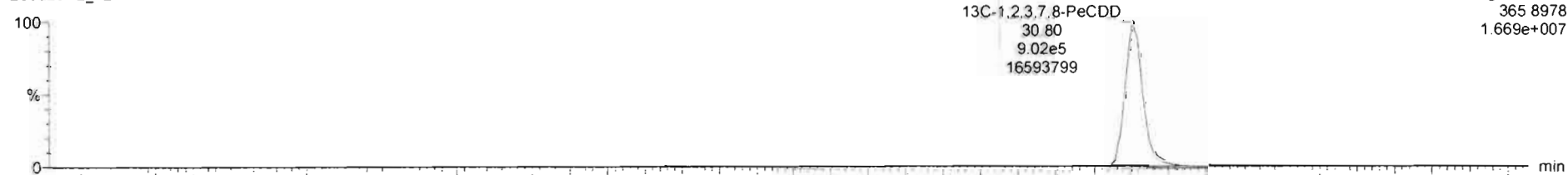


200223R2_12

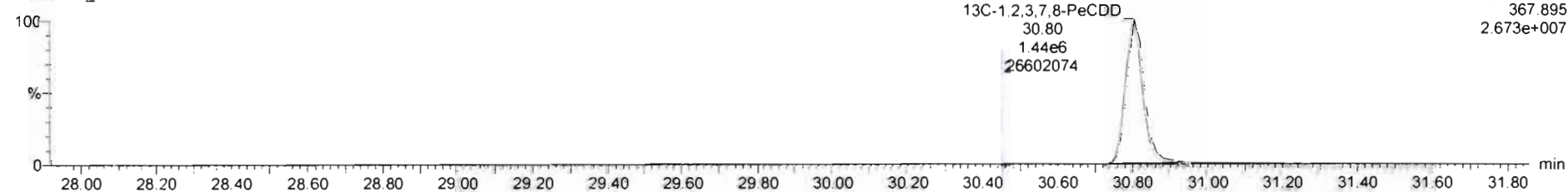


13C-1,2,3,7,8-PeCDD

200223R2_12

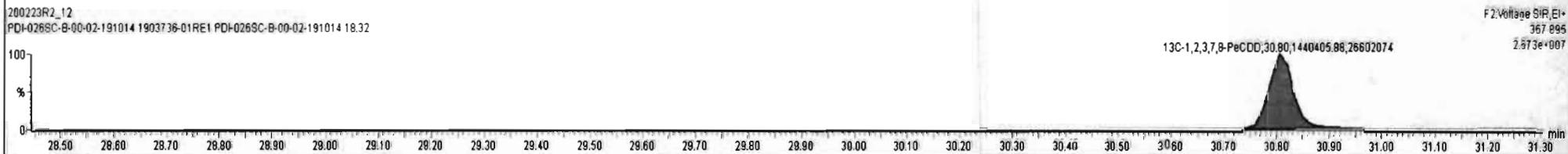
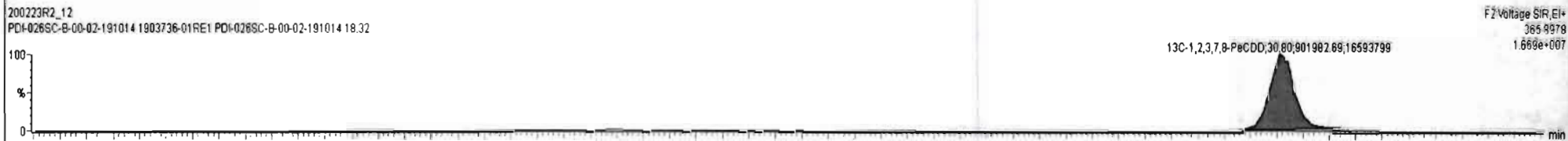
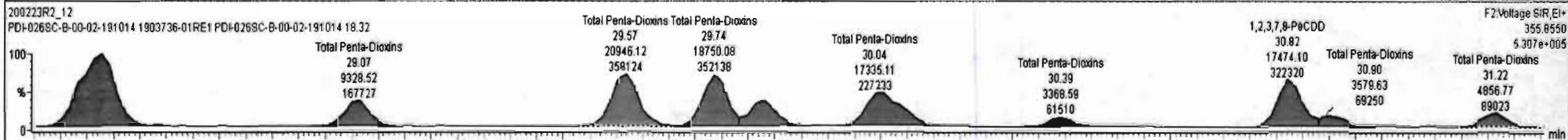
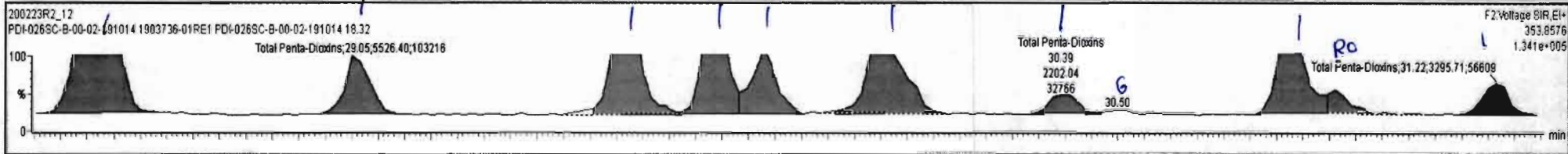


200223R2_12



#	Name	Resp	RA	n/y	RRF	wtAval	Pred.RT	RT	Pred.R.	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.131	24.62		0.000		NO	12.08		0.0599	12.33
40	Total Penta-Dioxins				0.9723	10.131	29.96		0.000		NO	18.85		0.0545	20.24

#	Name	Pred.RT	RT	int Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.96	28.58	2.349e4	3.894e4	0.630	0.60	NO	5.4116	5.4116
2	Total Penta-Dioxins	29.96	29.05	5.526e3	9.329e3	0.630	0.59	NO	1.2877	1.2877
3	Total Penta-Dioxins	29.96	29.57	1.322e4	2.095e4	0.630	0.63	NO	2.9615	2.9615
4	Total Penta-Dioxins	29.96	29.74	1.119e4	1.875e4	0.630	0.60	NO	2.5952	2.5952
5	Total Penta-Dioxins	29.96	29.83	6.275e3	9.952e3	0.630	0.63	NO	1.4066	1.4066
6	Total Penta-Dioxins	29.96	30.04	1.154e4	1.734e4	0.630	0.67	NO	2.5030	2.5030
7	Total Penta-Dioxins	29.96	30.39	2.202e3	3.369e3	0.630	0.65	NO	0.48288	0.48288
8	1,2,3,7,8-PeCDD	30.83	30.82	1.128e4	1.747e4	0.630	0.65	NO	2.4923	2.4923
9	Total Penta-Dioxins	29.96	30.81	1.739e3	3.589e3	0.630	0.49	YES	0.39012	0.00000
10	Total Penta-Dioxins	29.96	31.22	3.296e3	4.857e3	0.630	0.68	NO	0.70689	0.70689



Dataset: Untitled

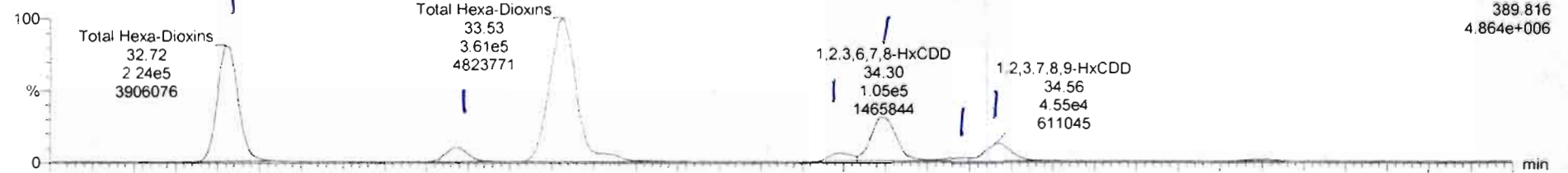
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

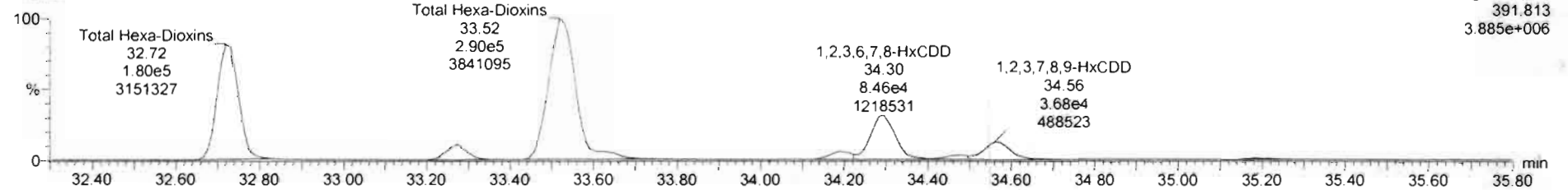
Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

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

200223R2_12

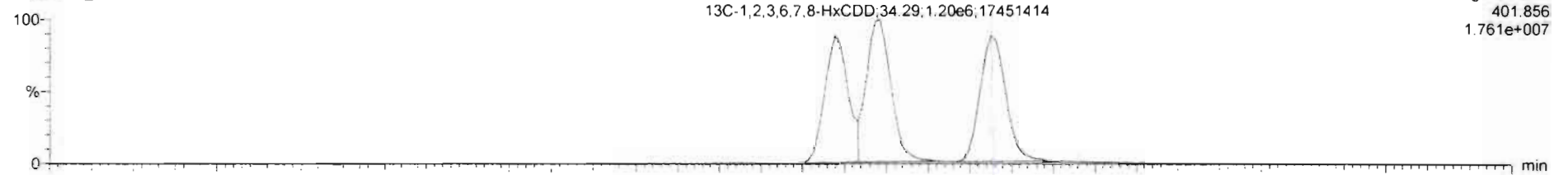


200223R2_12

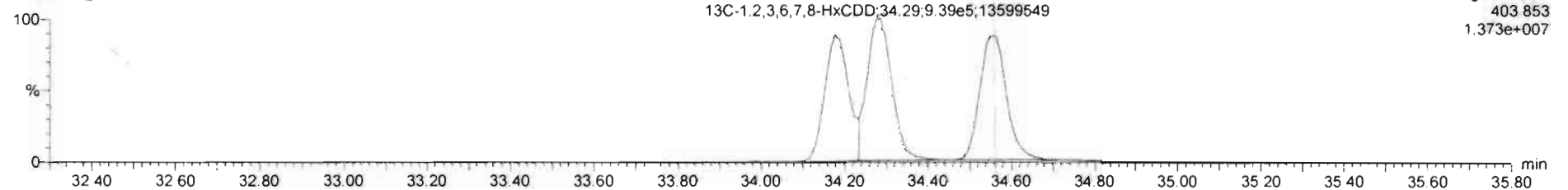


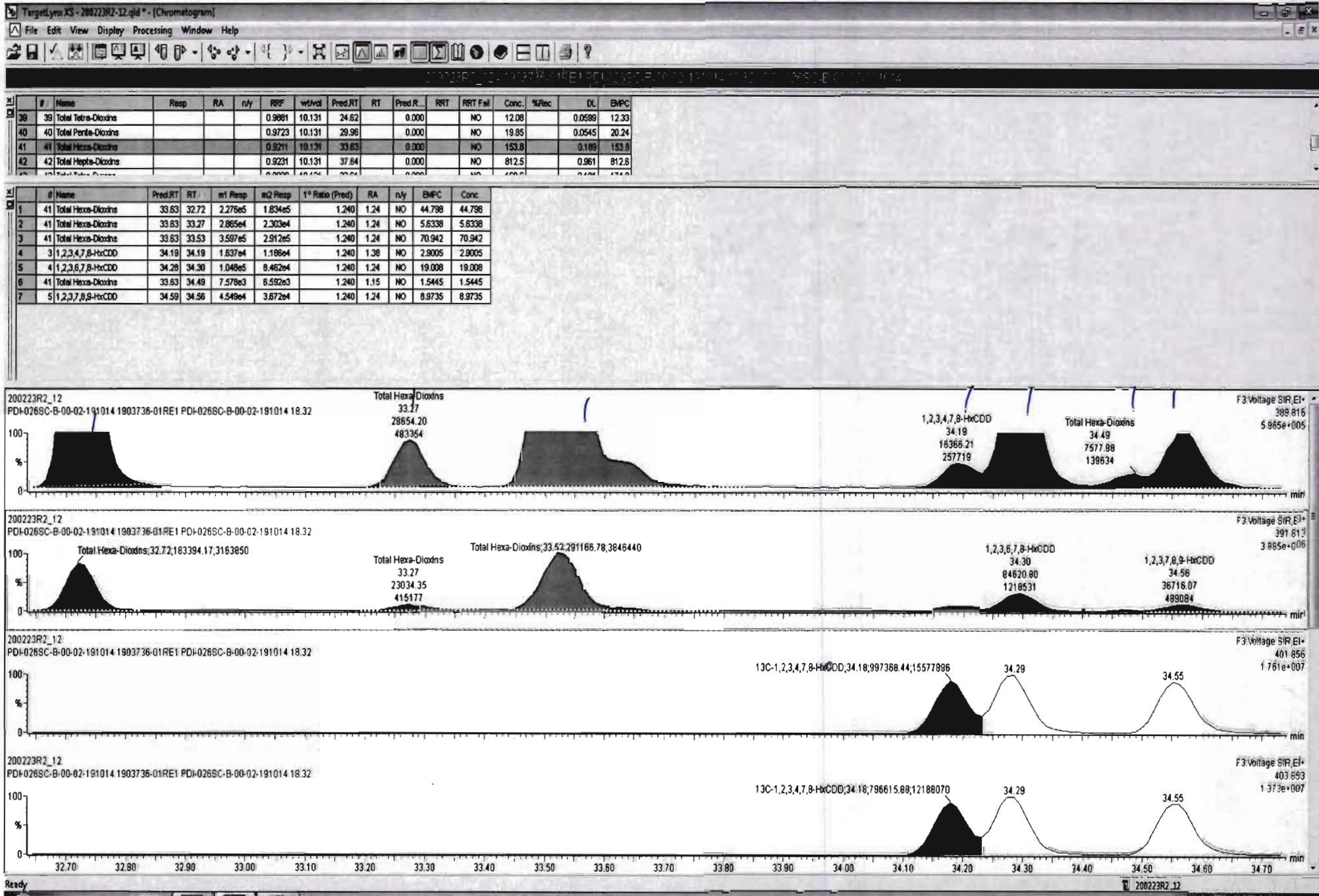
13C-1,2,3,4,7,8-HxCDD

200223R2_12



200223R2_12





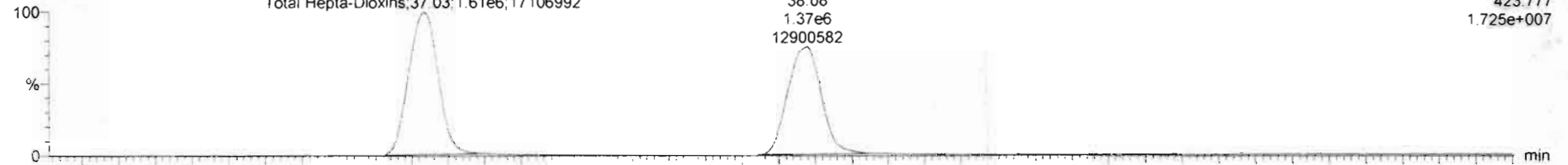
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

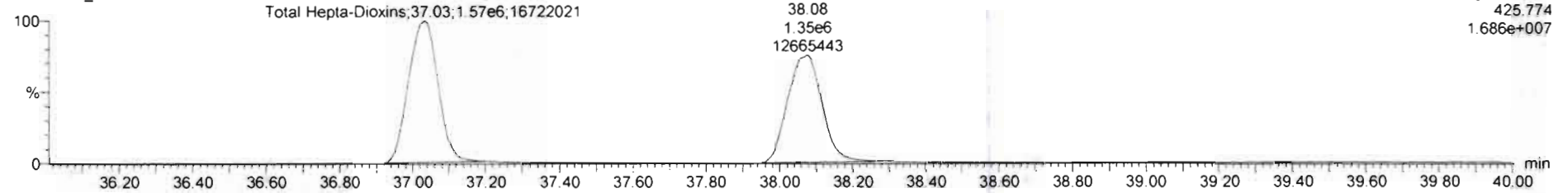
Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

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

200223R2_12

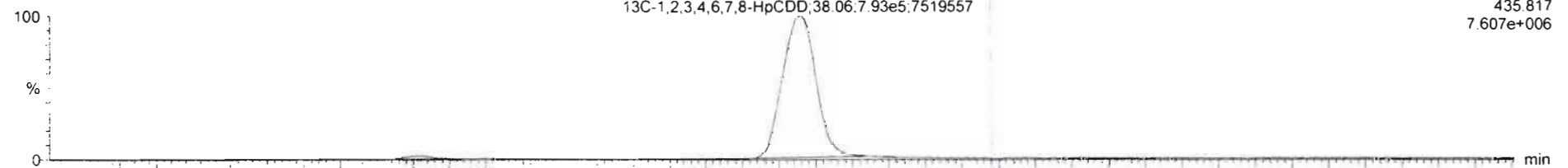


200223R2_12

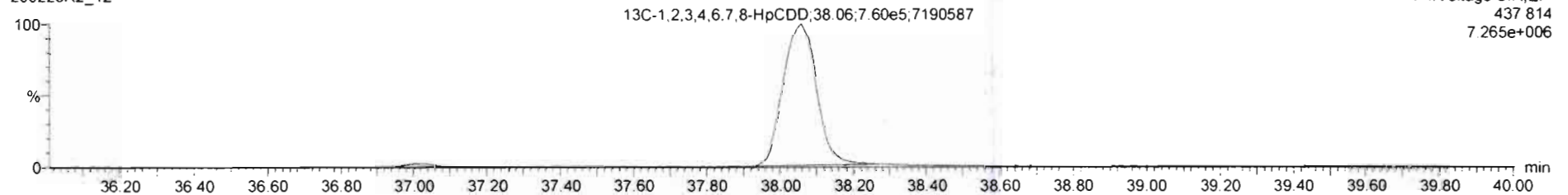


13C-1,2,3,4,6,7,8-HpCDD

200223R2_12



200223R2_12

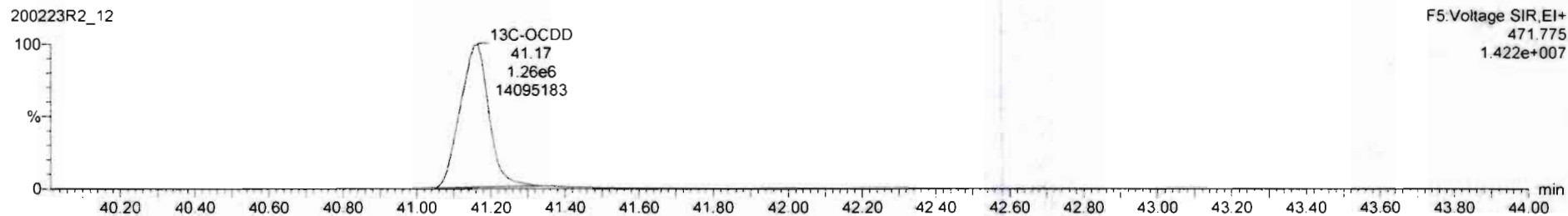
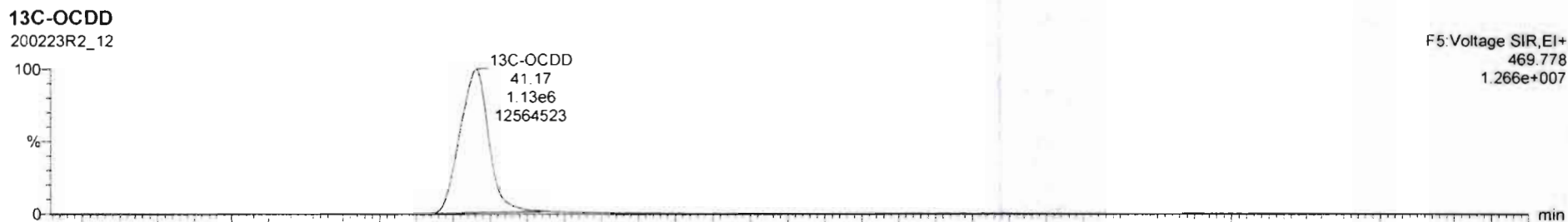
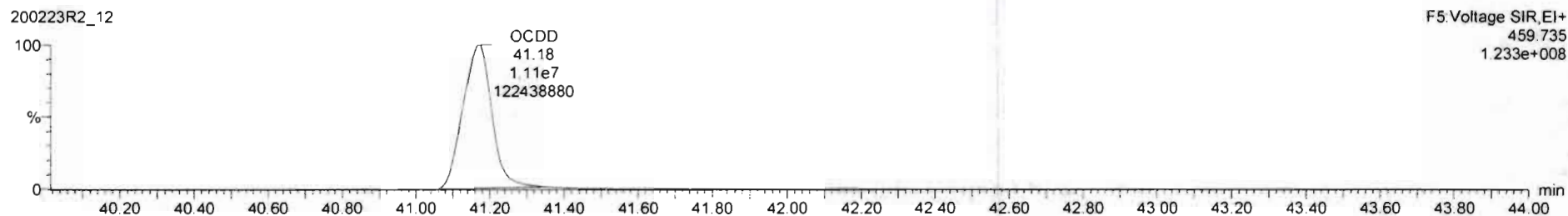
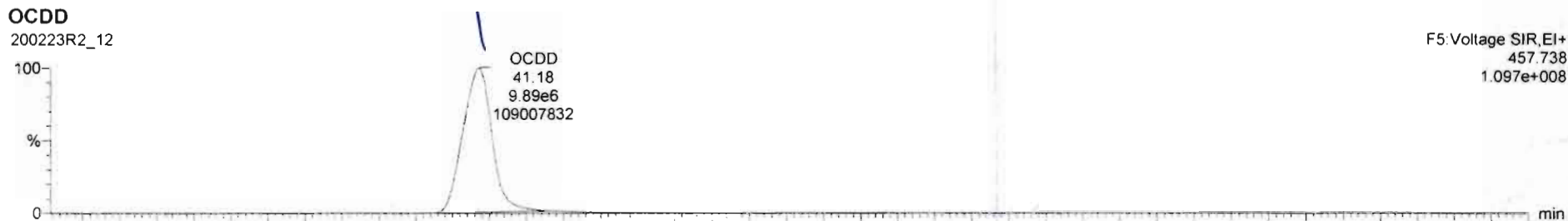


Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014



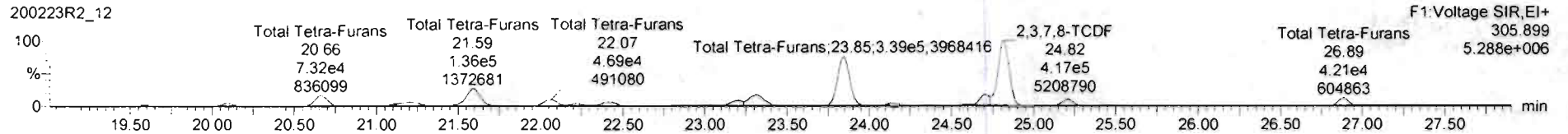
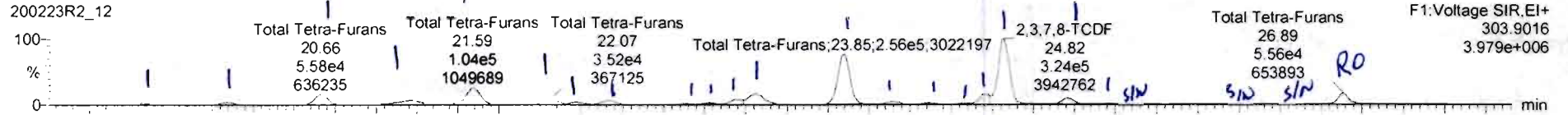
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

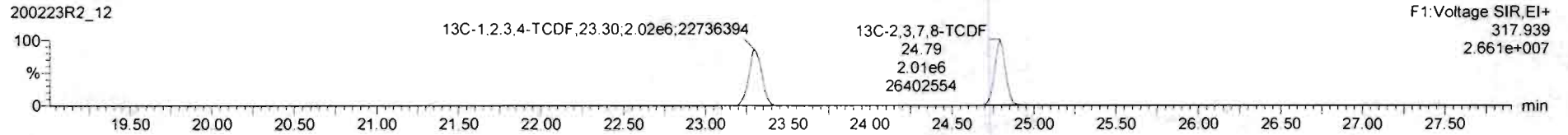
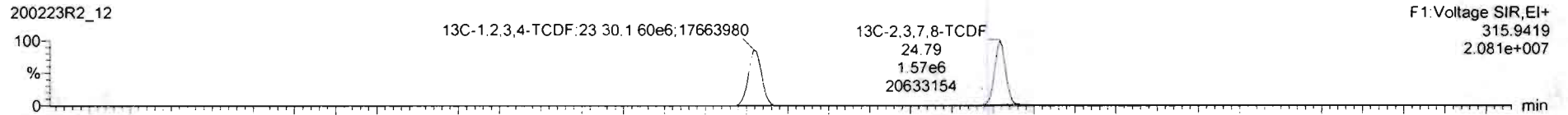
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

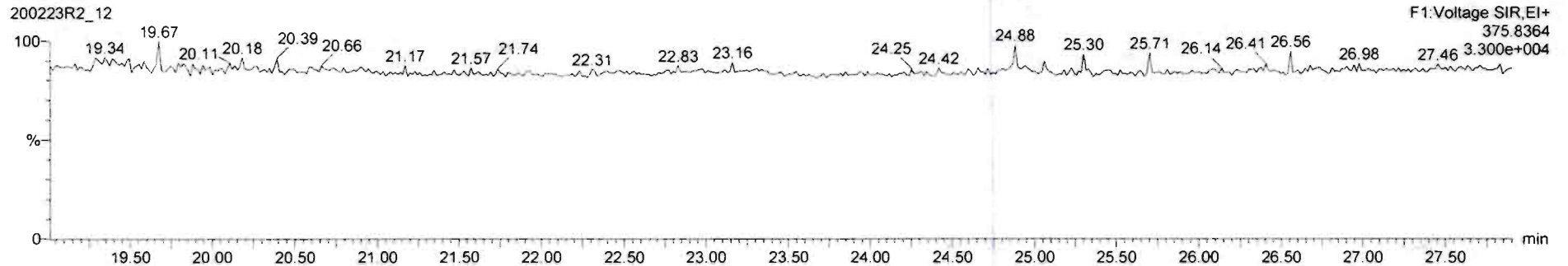
2,3,7,8-TCDF



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



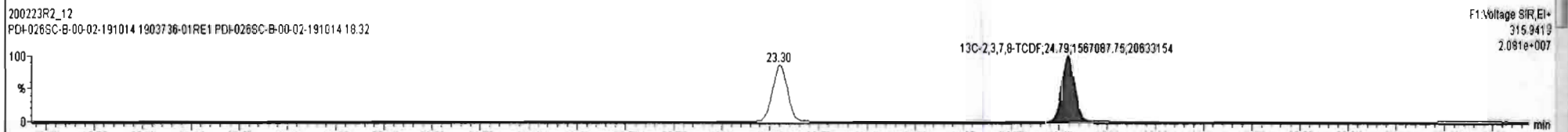
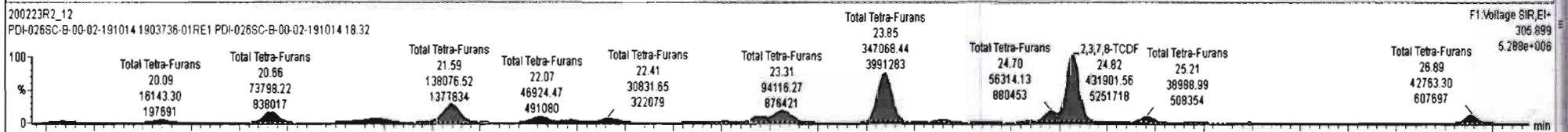
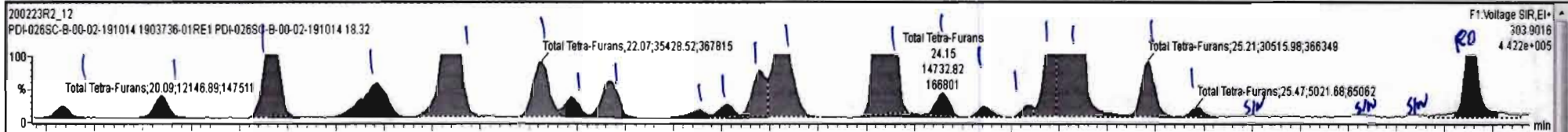
DPE1



200223R2_12 - 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32 - PDI-026SC-B-00-02-191014

#	Name	Resp	RA	n/y	RRF	wtAcl	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	10.131	23.61		0.000	NO	173.1			0.101	178.3
44	1st Func. Pente-Furans				0.9074	10.131	27.09		0.000	NO		27.86		0.0280	27.86

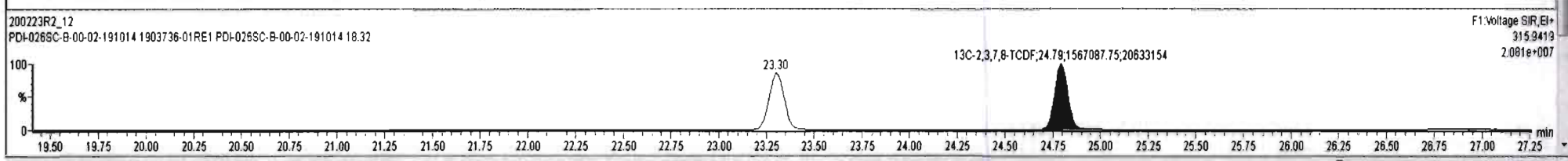
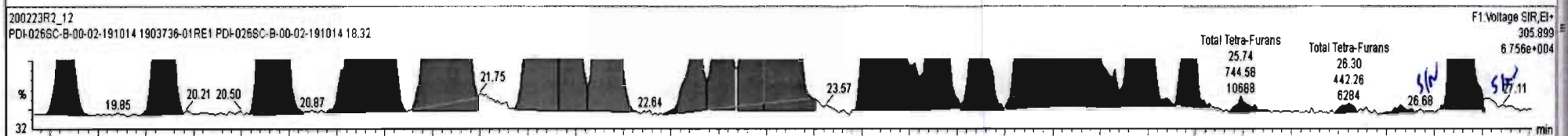
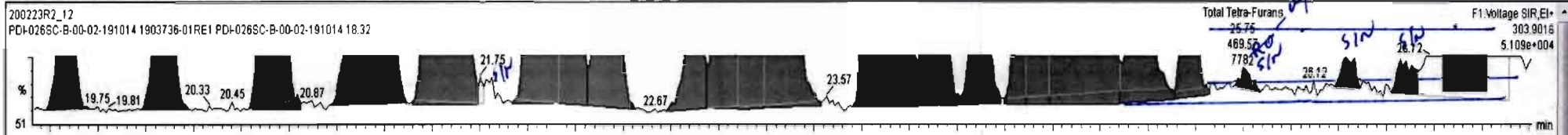
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	19.58	6.102e3	8.153e3	0.770	0.75	NO	0.97990	0.97990
2	Total Tetra-Furans	23.61	20.09	1.215e4	1.614e4	0.770	0.75	NO	1.9447	1.9447
3	Total Tetra-Furans	23.61	20.66	5.631e4	7.380e4	0.770	0.76	NO	8.9437	8.9437
4	Total Tetra-Furans	23.61	21.22	3.471e4	4.606e4	0.770	0.75	NO	5.5524	5.5524
5	Total Tetra-Furans	23.61	21.59	1.044e5	1.381e5	0.770	0.76	NO	16.671	16.671
6	Total Tetra-Furans	23.61	22.07	3.543e4	4.692e4	0.770	0.75	NO	5.6810	5.6810
7	Total Tetra-Furans	23.61	22.22	1.173e4	1.545e4	0.770	0.76	NO	1.8686	1.8686
8	Total Tetra-Furans	23.61	22.41	2.420e4	3.083e4	0.770	0.79	NO	3.7831	3.7831
9	Total Tetra-Furans	23.61	22.89	4.680e3	5.323e3	0.770	0.88	NO	0.68626	0.68626
10	Total Tetra-Furans	23.61	23.03	7.957e3	9.787e3	0.770	0.81	NO	1.2198	1.2198
11	Total Tetra-Furans	23.61	23.19	2.497e4	3.362e4	0.770	0.74	NO	4.0275	4.0275
12	Total Tetra-Furans	23.61	23.31	7.147e4	9.412e4	0.770	0.76	NO	11.382	11.382
13	Total Tetra-Furans	23.61	23.85	2.627e5	3.471e5	0.770	0.76	NO	41.917	41.917
14	Total Tetra-Furans	23.61	24.15	1.473e4	1.923e4	0.770	0.77	NO	2.3344	2.3344
15	Total Tetra-Furans	23.61	24.36	8.232e3	7.980e3	0.770	0.78	NO	0.97688	0.97688
16	Total Tetra-Furans	23.61	24.58	4.713e3	6.153e3	0.770	0.77	NO	0.74695	0.74695
17	Total Tetra-Furans	23.61	24.70	4.237e4	5.631e4	0.770	0.75	NO	6.7835	6.7835
18	2,3,7,8-TCDF	24.82	24.82	3.260e5	4.319e5	0.770	0.75	NO	52.097	52.097
19	Total Tetra-Furans	23.61	25.21	3.052e4	3.899e4	0.770	0.78	NO	4.7778	4.7778
20	Total Tetra-Furans	23.61	25.47	5.022e3	5.850e3	0.770	0.86	NO	0.74732	0.74732
21	Total Tetra-Furans	23.61	26.89	4.939e4	4.276e4	0.770	1.15	YES	5.2031	0.00000



200223R2-12-1903736-01RE1 PDI-026SC-B-00-02-191014 1903736-01-206SC-B-00-02-191014

#	Name	Resp	RA	nly	RF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	10.131	23.81		0.000		NO	169.6		0.101	174.9
44	1st Func. Penta-Furans				0.9074	10.131	27.09		0.000		NO	27.86		0.0260	27.86

#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	nly	EMPC	Conc.
1	Total Tetra-Furans	23.81	19.58	6.102e3	8.153e3	0.770	0.75	NO	0.9790	0.9790
2	Total Tetra-Furans	23.81	20.09	1.215e4	1.614e4	0.770	0.75	NO	1.9447	1.9447
3	Total Tetra-Furans	23.81	20.66	5.578e4	7.322e4	0.770	0.76	NO	8.8675	8.8675
4	Total Tetra-Furans	23.81	21.22	3.471e4	4.606e4	0.770	0.75	NO	5.5524	5.5524
5	Total Tetra-Furans	23.81	21.59	1.043e5	1.365e5	0.770	0.76	NO	16.551	16.551
6	Total Tetra-Furans	23.81	22.07	3.523e4	4.682e4	0.770	0.75	NO	5.6473	5.6473
7	Total Tetra-Furans	23.81	22.22	1.173e4	1.545e4	0.770	0.76	NO	1.8686	1.8686
8	Total Tetra-Furans	23.81	22.41	2.420e4	3.083e4	0.770	0.79	NO	3.7831	3.7831
9	Total Tetra-Furans	23.81	22.89	4.660e3	5.323e3	0.770	0.88	NO	0.68626	0.68626
10	Total Tetra-Furans	23.81	23.03	7.911e3	9.674e3	0.770	0.82	NO	1.2088	1.2088
11	Total Tetra-Furans	23.81	23.19	2.481e4	3.350e4	0.770	0.74	NO	4.0084	4.0084
12	Total Tetra-Furans	23.81	23.31	7.103e4	9.239e4	0.770	0.77	NO	11.233	11.233
13	Total Tetra-Furans	23.81	23.85	2.563e5	3.388e5	0.770	0.76	NO	40.906	40.906
14	Total Tetra-Furans	23.81	24.15	1.263e4	1.634e4	0.770	0.77	NO	1.9917	1.9917
15	Total Tetra-Furans	23.81	24.36	5.661e3	7.112e3	0.770	0.80	NO	0.87805	0.87805
16	Total Tetra-Furans	23.81	24.58	4.426e3	5.044e3	0.770	0.88	NO	0.65098	0.65098
17	Total Tetra-Furans	23.81	24.70	4.201e4	5.344e4	0.770	0.79	NO	6.5812	6.5812
18	2,3,7,8-TCDF	24.82	24.82	3.244e5	4.175e5	0.770	0.78	NO	50.998	50.998
19	Total Tetra-Furans	23.81	25.21	2.921e4	3.723e4	0.770	0.78	NO	4.5871	4.5871
20	Total Tetra-Furans	23.81	25.47	4.487e3	6.027e3	0.770	0.74	NO	0.72277	0.72277
21	Total Tetra-Furans	23.81	25.75	4.696e2	7.446e2	0.770	0.63	YES	0.074199	0.00000
22	Total Tetra-Furans	23.81	26.29	9.210e2	4.423e2	0.770	2.08	YES	0.053811	0.00000
23	Total Tetra-Furans	23.81	26.57	1.204e3	3.691e2	0.770	3.26	YES	0.044913	0.00000
24	Total Tetra-Furans	23.81	26.89	5.582e4	4.707e4	0.770	1.32	YES	5.1188	0.00000



Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

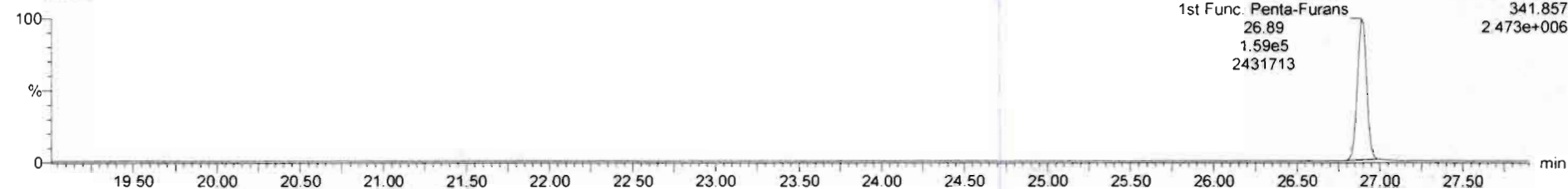
Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

1st Func. Penta-Furans

200223R2_12

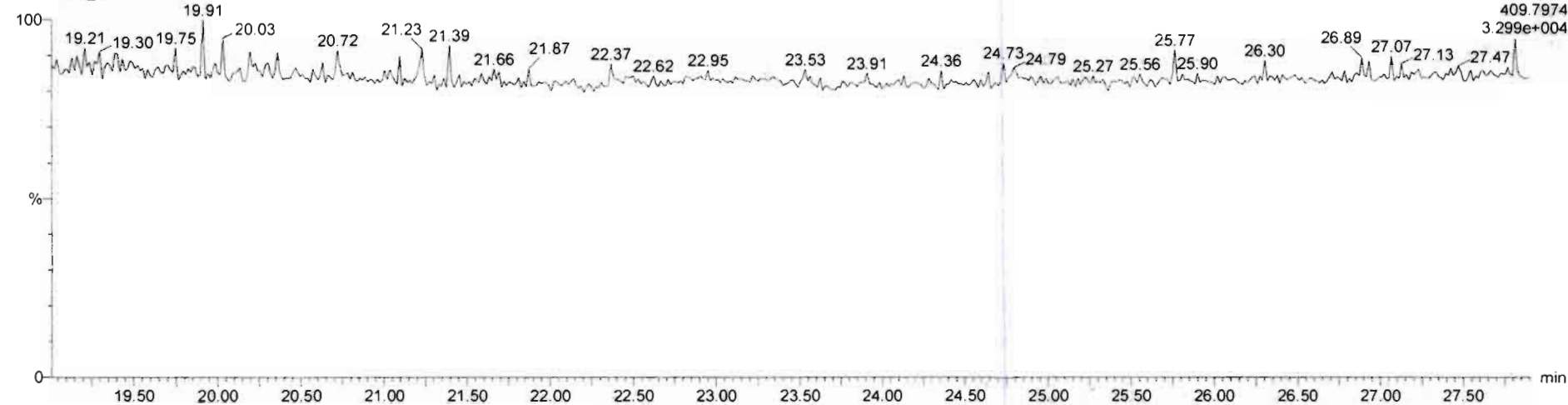


200223R2_12



DPE6

200223R2_12



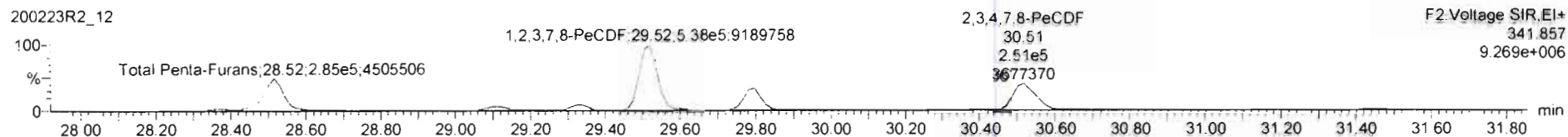
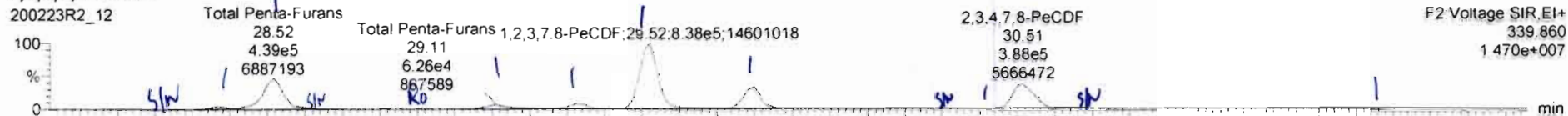
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

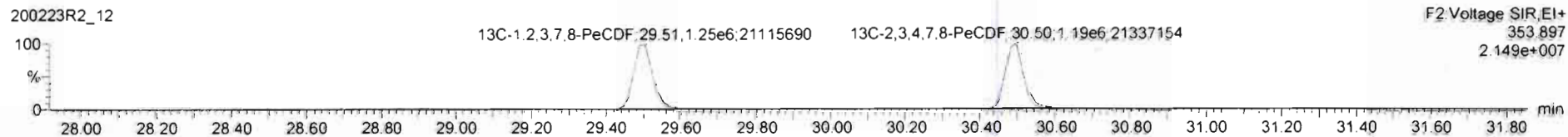
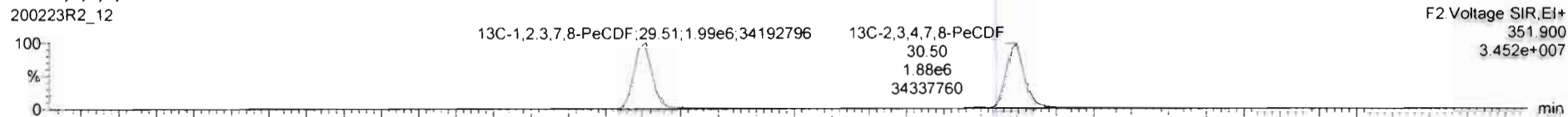
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

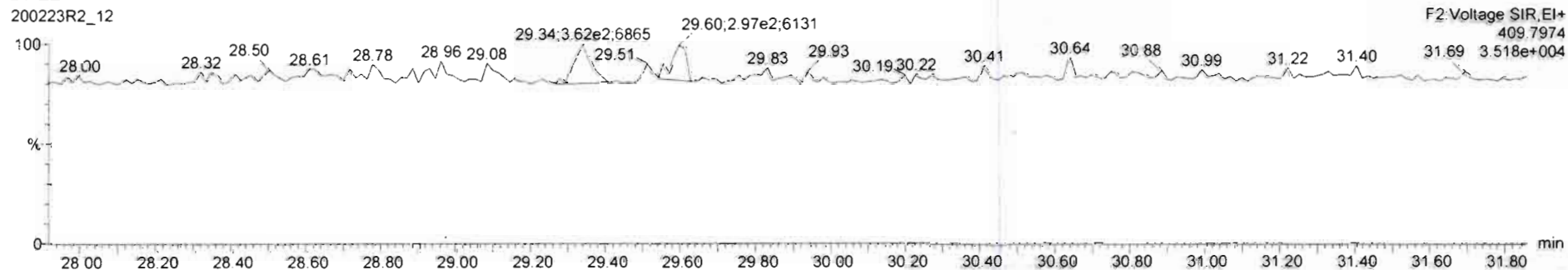
1,2,3,7,8-PeCDF



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



DPE2



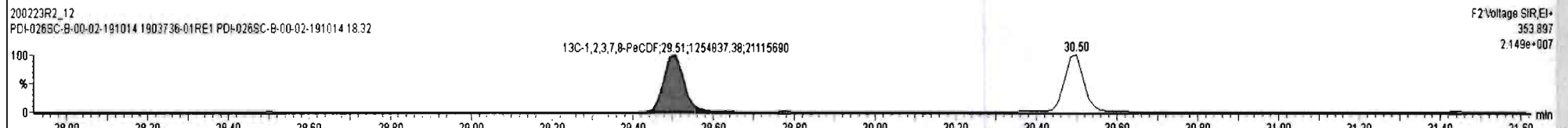
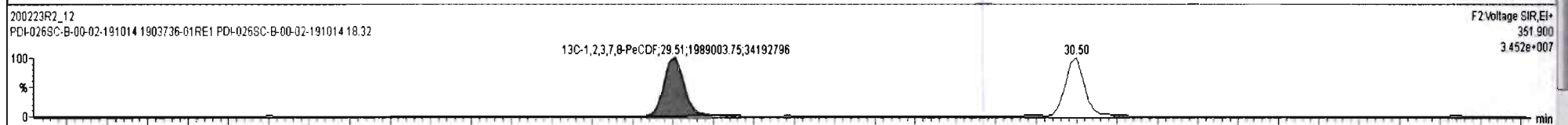
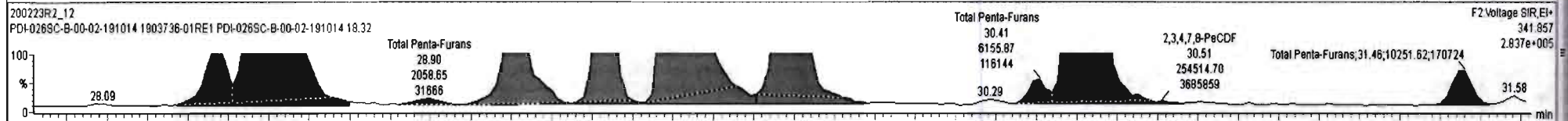
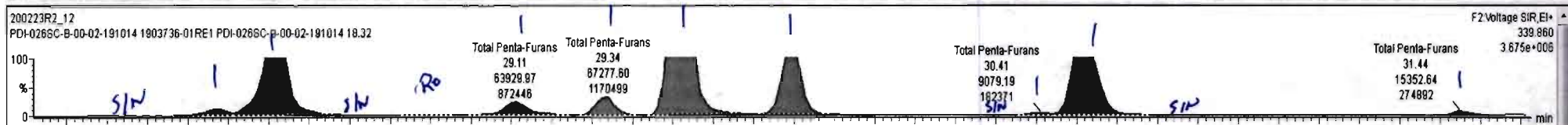
TargetLynxXS - 200223R2-12.qld - [Chromatogram]

File Edit View Display Processing Window Help

200223R2_12 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32 PDI-026SC-B-00-02-191014

#	Name	Resp	RA	n/y	RRF	wtMtd	Pred.RT	RT	Freq.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.131	27.09		0.000		NO	27.06		0.0260	27.06
45	Total Penta-Furans				0.8074	10.131	29.27		0.000		NO	240.5		0.149	240.9
46	Total Hexa-Furans				0.8992	10.131	33.56		0.000		NO	418.9		0.204	419.8
47	Total Hepta-Furans				0.8511	10.131	37.83		0.000		NO	318.8		0.377	318.8

#	Name	Pred.RT	RT	Int Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	29.27	28.36	2.768e4	1.833e4	1.550	1.51	NO	3.1740	3.1740
2	Total Penta-Furans	29.27	28.52	4.515e5	2.932e5	1.550	1.54	NO	51.372	51.372
3	Total Penta-Furans	29.27	28.90	3.802e3	2.059e3	1.550	1.85	YES	0.36215	0.00000
4	Total Penta-Furans	29.27	29.11	6.393e4	4.042e4	1.550	1.58	NO	7.1988	7.1988
5	Total Penta-Furans	29.27	29.34	6.728e4	4.206e4	1.550	1.60	NO	7.5430	7.5430
6	1,2,3,7,8-PeCDF	29.53	29.52	8.559e5	5.503e5	1.550	1.56	NO	94.317	94.317
7	Total Penta-Furans	29.27	29.80	2.658e5	1.729e5	1.550	1.54	NO	30.252	30.252
8	Total Penta-Furans	29.27	30.41	9.079e3	6.156e3	1.550	1.47	NO	1.0510	1.0510
9	2,3,4,7,8-PeCDF	30.53	30.51	3.927e5	2.545e5	1.550	1.54	NO	43.827	43.827
10	Total Penta-Furans	29.27	31.44	1.535e4	1.025e4	1.550	1.50	NO	1.7664	1.7664

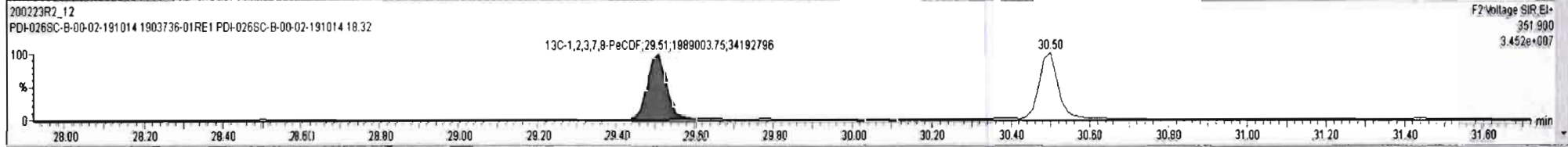
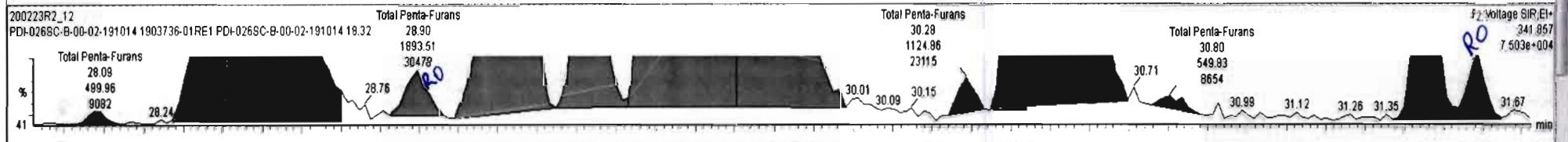
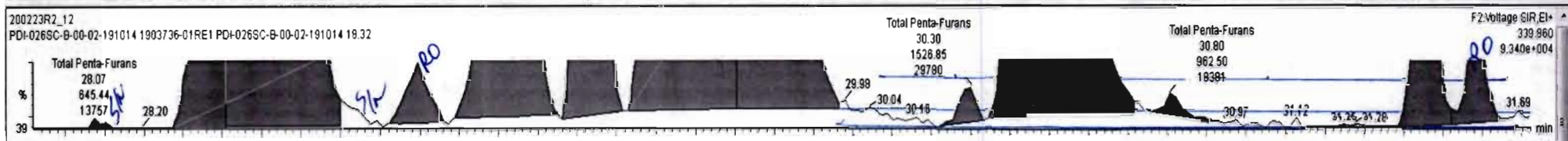


Ready

200223R2_12

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R..	RRT	RRT Fail	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	10.131	23.61		0.000		NO	173.1		0.101	178.3
44	1st Func. Penta-Furans				0.9074	10.131	27.09		0.000		NO	27.86		0.0260	27.86

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc
1	45 Total Penta-Furans	29.27	28.07	6.454e2	5.000e2	1.550	1.29	YES	0.073254	0.00000
2	45 Total Penta-Furans	29.27	28.36	2.595e4	1.723e4	1.550	1.51	NO	2.9789	2.9789
3	45 Total Penta-Furans	29.27	28.52	4.394e5	2.851e5	1.550	1.54	NO	49.980	49.980
4	45 Total Penta-Furans	29.27	28.90	3.278e3	1.894e3	1.550	1.73	NO	0.35674	0.35674
5	45 Total Penta-Furans	29.27	29.11	6.261e4	4.028e4	1.550	1.55	NO	7.0985	7.0985
6	45 Total Penta-Furans	29.27	29.34	6.897e4	4.031e4	1.550	1.66	NO	7.4010	7.4010
7	9 1,2,3,7,8-PeCDF	29.53	29.52	8.379e5	5.375e5	1.550	1.56	NO	92.251	92.251
8	45 Total Penta-Furans	29.27	29.80	2.498e5	1.643e5	1.550	1.52	NO	28.570	28.570
9	45 Total Penta-Furans	29.27	30.30	1.527e3	1.125e3	1.550	1.36	NO	0.18293	0.18293
10	45 Total Penta-Furans	29.27	30.41	8.741e3	5.915e3	1.550	1.48	NO	1.0110	1.0110
11	10 2,3,4,7,8-PeCDF	30.53	30.51	3.876e5	2.514e5	1.550	1.54	NO	43.275	43.275
12	45 Total Penta-Furans	29.27	30.80	9.625e2	5.498e2	1.550	1.75	NO	0.10433	0.10433
13	45 Total Penta-Furans	29.27	31.44	1.535e4	1.025e4	1.550	1.50	NO	1.7684	1.7684
14	45 Total Penta-Furans	29.27	31.58	4.724e3	2.392e3	1.550	1.97	YES	0.42082	0.00000



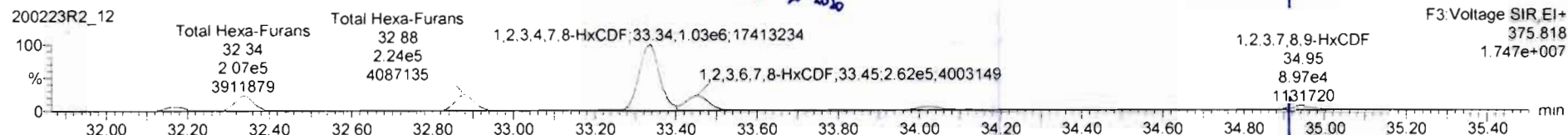
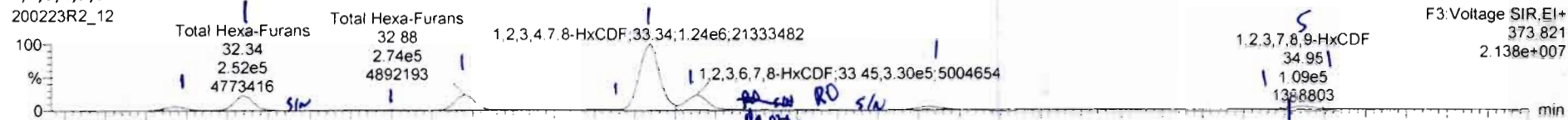
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

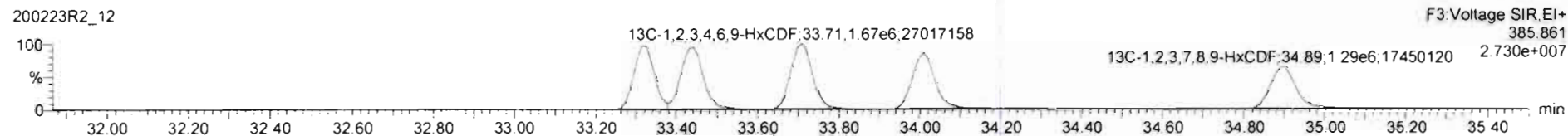
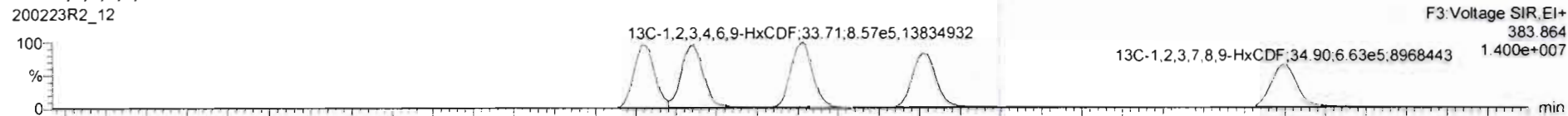
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

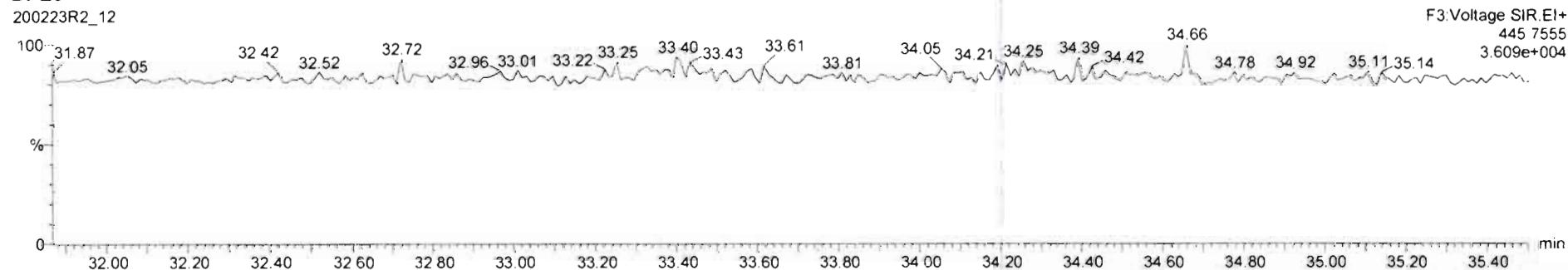
1,2,3,4,7,8-HxCDF



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

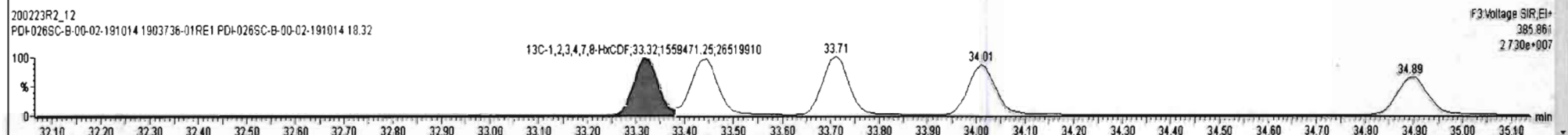
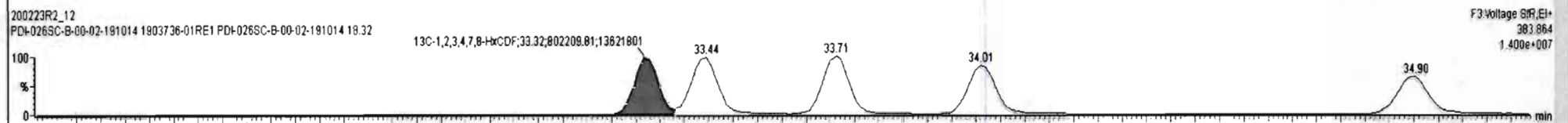
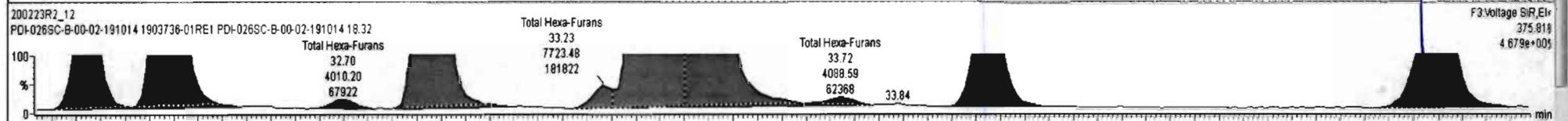
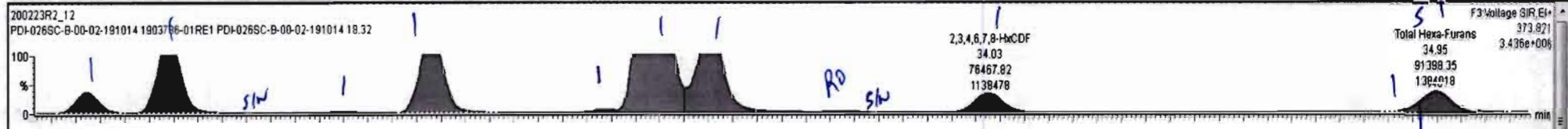


DPE3



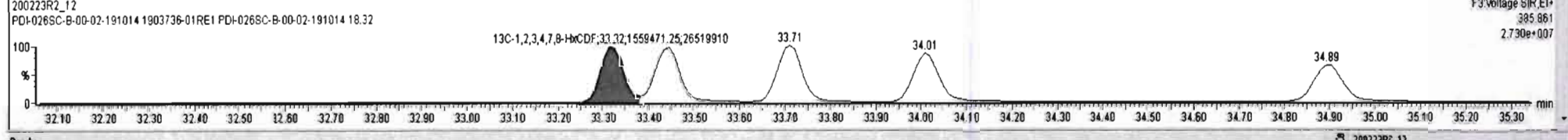
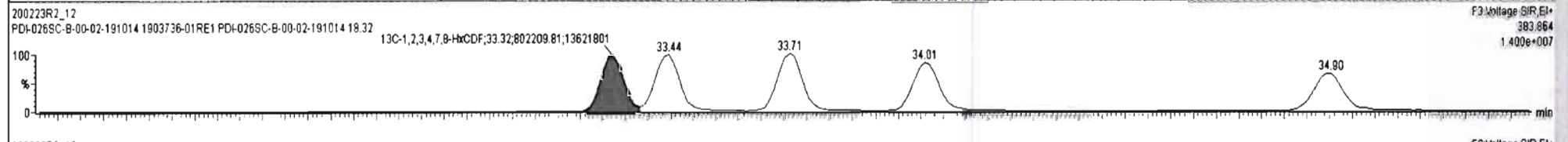
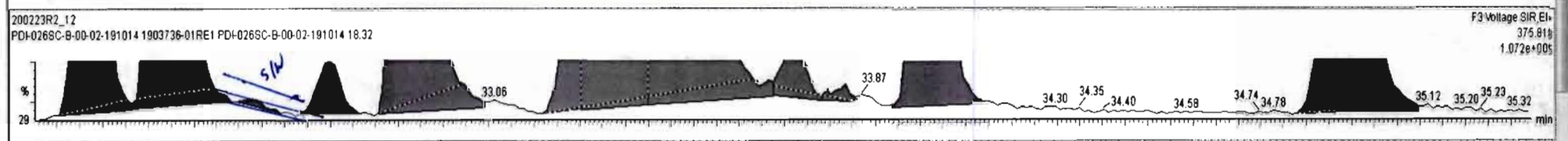
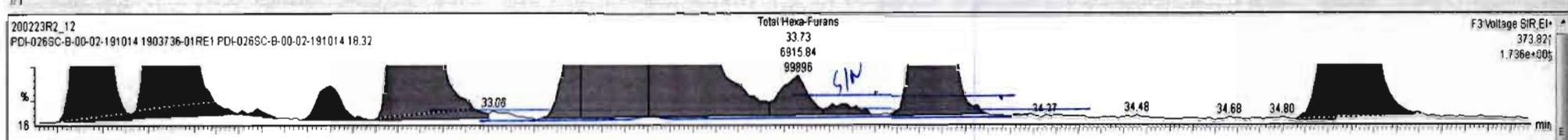
#	Name	Resp	RA	nly	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.131	27.09		0.000		NO	27.86		0.0260	27.86
45	Total Penta-Furans				0.9074	10.131	29.27		0.000		NO	240.5		0.149	241.3
46	Total Hexa-Furans				0.8982	10.131	33.56		0.000		NO	418.9		0.204	418.9
47	Total Hepta-Furans				0.8511	10.131	37.83		0.000		NO	318.8		0.377	318.8

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	46 Total Hexa-Furans	33.58	32.17	7.129e4	5.863e4	1.240	1.22	NO	12.599	12.599
2	46 Total Hexa-Furans	33.58	32.34	2.578e5	2.107e5	1.240	1.22	NO	45.417	45.417
3	46 Total Hexa-Furans	33.58	32.70	5.112e3	4.010e3	1.240	1.27	NO	0.88468	0.88468
4	46 Total Hexa-Furans	33.58	32.88	2.778e5	2.274e5	1.240	1.22	NO	48.993	48.993
5	46 Total Hexa-Furans	33.58	33.23	9.332e3	7.723e3	1.240	1.21	NO	1.6540	1.6540
6	11 1,2,3,4,7,8-HxCDF	33.32	33.34	1.243e6	1.027e6	1.240	1.21	NO	220.03	220.03
7	12 1,2,3,6,7,8-HxCDF	33.45	33.46	3.301e5	2.672e5	1.240	1.24	NO	55.639	55.639
8	46 Total Hexa-Furans	33.58	33.73	6.816e3	4.089e3	1.240	1.69	YES	0.88815	0.00000
9	13 2,3,4,6,7,8-HxCDF	34.04	34.03	7.647e4	6.315e4	1.240	1.21	NO	13.746	13.746
10	14 1,2,3,7,8,9-HxCDF	34.80	34.91	1.716e4	1.438e4	1.240	1.19	NO	3.7171	3.7171
11	46 Total Hexa-Furans	33.58	34.95	9.140e4	7.591e4	1.240	1.20	NO	16.225	16.225



#	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				0.9074	10.131	27.09		0.000		NO	27.86		0.0260	27.86
45	Total Penta-Furans				0.9074	10.131	29.27		0.000		NO	240.5		0.149	241.3
46	Total Hexa-Furans				0.8982	10.131	33.58		0.000		NO	418.9		0.204	420.1
47	Total Hepta-Furans				0.8511	10.131	37.83		0.000		NO	318.8		0.377	318.8

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.17	7.129e4	5.863e4	1.240	1.22	NO	12.599	12.599
2	46 Total Hexa-Furans	33.56	32.34	2.576e5	2.107e5	1.240	1.22	NO	45.417	45.417
3	46 Total Hexa-Furans	33.56	32.54	6.303e2	4.163e2	1.240	1.51	YES	0.090425	0.00000
4	46 Total Hexa-Furans	33.56	32.70	5.112e3	4.010e3	1.240	1.27	NO	0.88468	0.88468
5	46 Total Hexa-Furans	33.56	32.89	2.779e5	2.274e5	1.240	1.22	NO	48.993	48.993
6	46 Total Hexa-Furans	33.56	33.23	9.332e3	7.723e3	1.240	1.21	NO	1.6540	1.6540
7	11 1,2,3,4,7,8-HxCDF	33.32	33.34	1.243e6	1.027e6	1.240	1.21	NO	220.03	220.03
8	12 1,2,3,6,7,8-HxCDF	33.45	33.46	3.301e5	2.672e5	1.240	1.24	NO	55.639	55.639
9	46 Total Hexa-Furans	33.56	33.73	6.916e3	4.089e3	1.240	1.69	YES	0.88815	0.00000
10	46 Total Hexa-Furans	33.56	33.84	1.957e3	1.004e3	1.240	1.95	YES	0.21813	0.00000
11	13 2,3,4,6,7,8-HxCDF	34.04	34.03	7.647e4	6.315e4	1.240	1.21	NO	13.746	13.746
12	14 1,2,3,7,8-HxCDF	34.90	34.91	1.716e4	1.438e4	1.240	1.19	NO	3.7171	3.7171
13	46 Total Hexa-Furans	33.56	34.95	9.140e4	7.591e4	1.240	1.20	NO	16.225	16.225



Dataset: Untitled

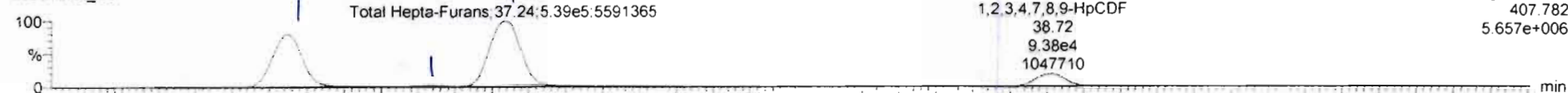
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time

Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

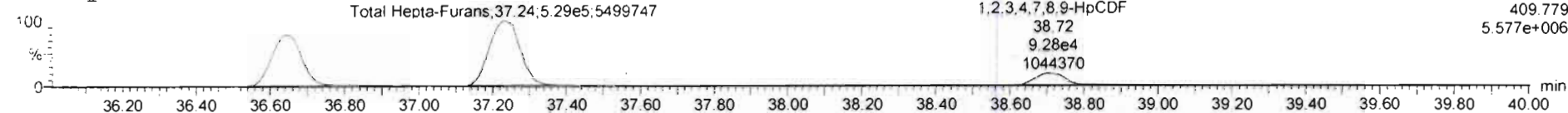
Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

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

200223R2_12



200223R2_12

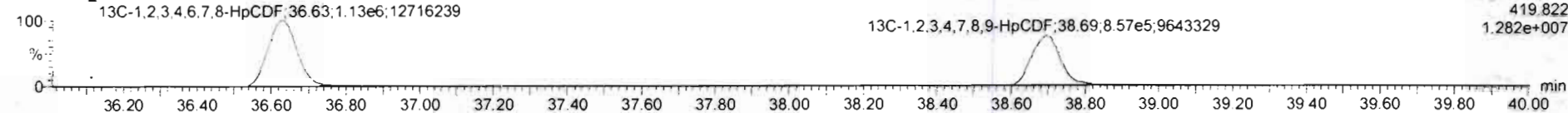


13C-1,2,3,4,6,7,8-HpCDF

200223R2_12

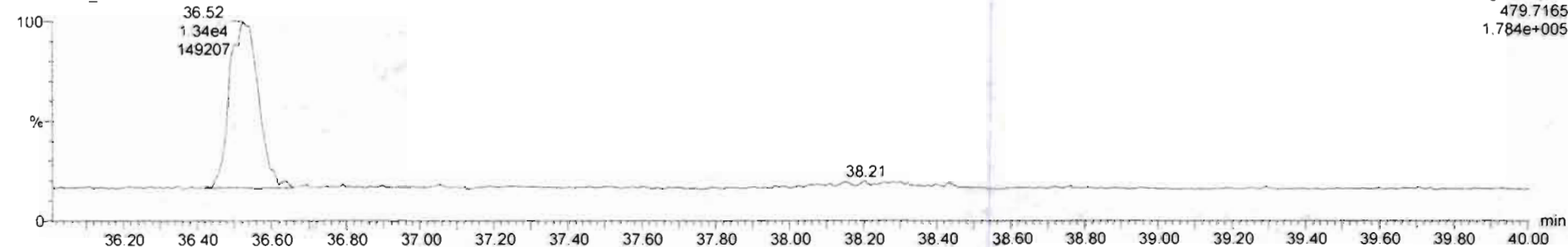


200223R2_12



DPE4

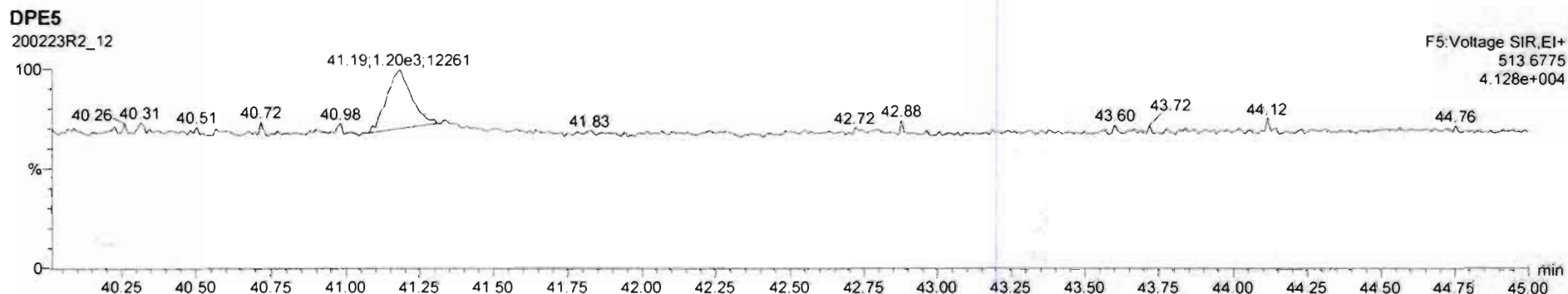
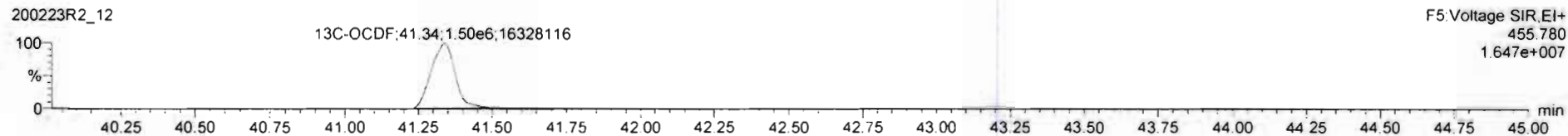
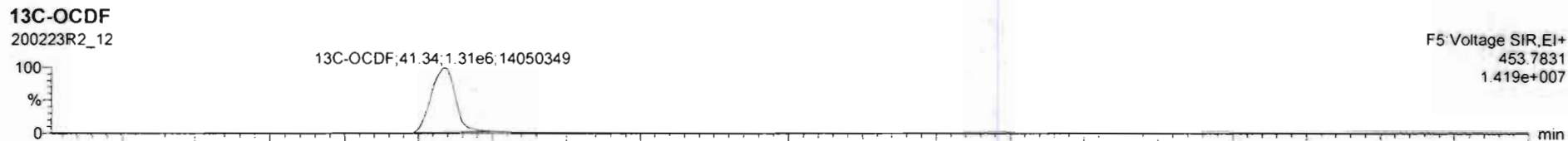
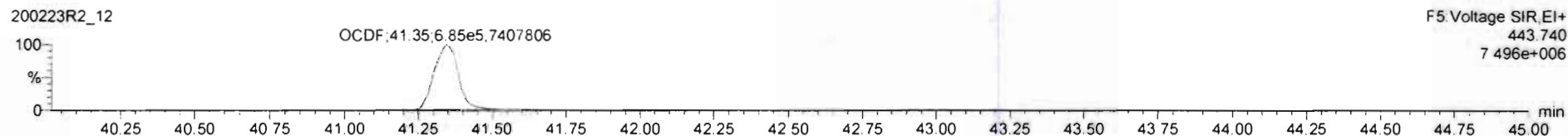
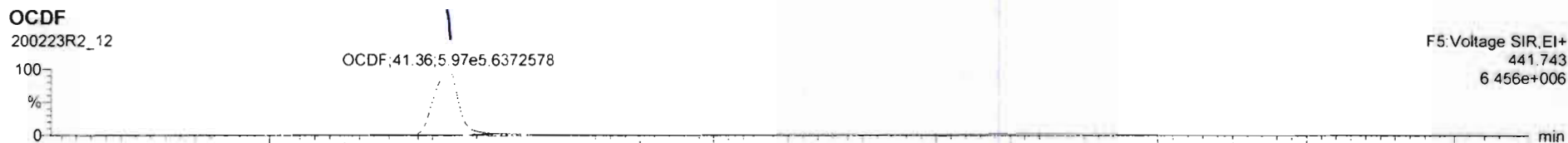
200223R2_12



Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

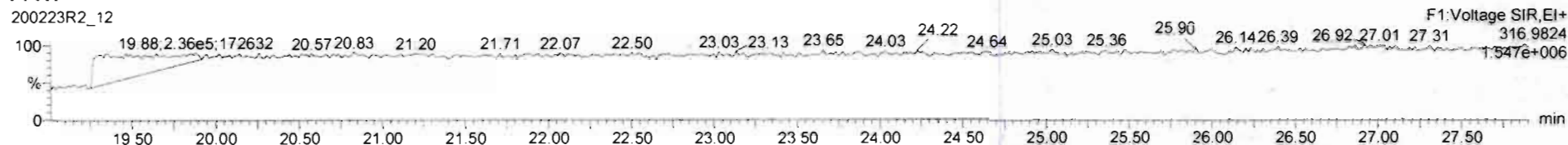


Dataset: Untitled

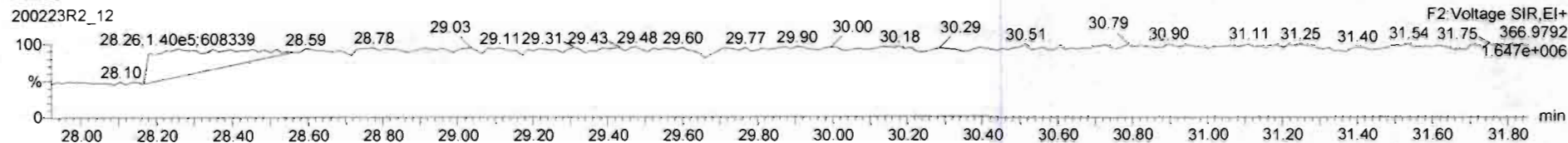
Last Altered: Monday, February 24, 2020 08:04:23 Pacific Standard Time
Printed: Monday, February 24, 2020 08:07:46 Pacific Standard Time

Name: 200223R2_12, Date: 23-Feb-2020, Time: 21:09:03, ID: 1903736-01RE1 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

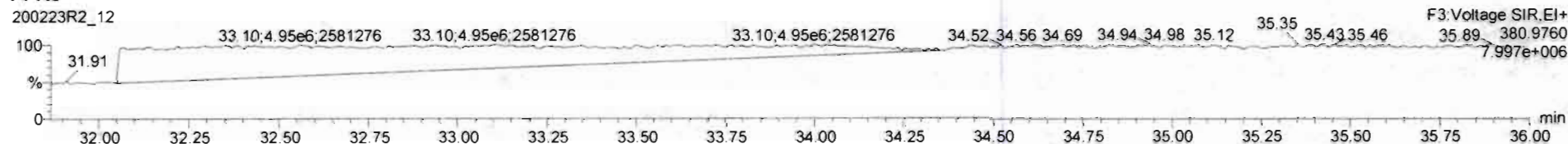
PFK1



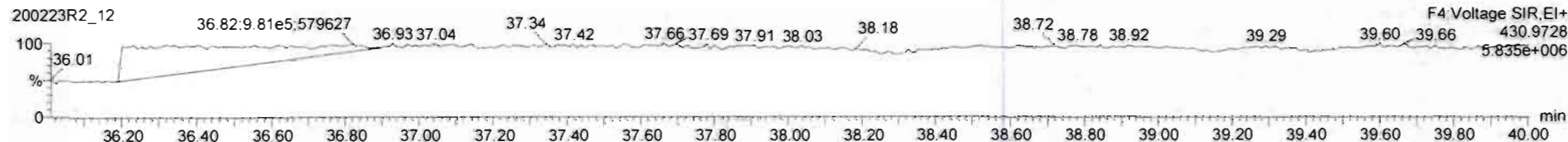
PFK2



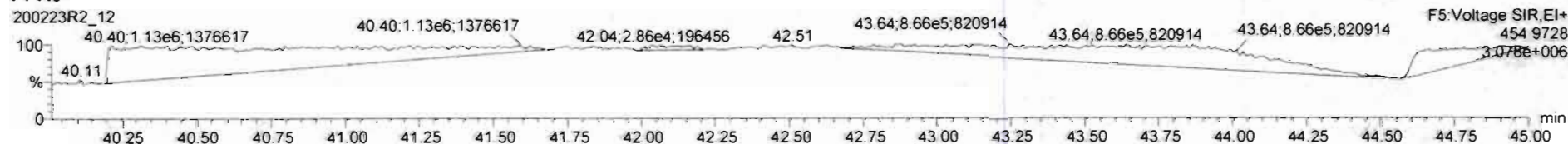
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200223R3\200223R3-6.qld

Last Altered: Thursday, March 12, 2020 14:34:38 Pacific Daylight Time

Printed: Thursday, March 12, 2020 14:41:14 Pacific Daylight Time

dn 03-12-2020
E: see dilution*
dn 3/2/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

#	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	55153.586	0.756	NO	0.988	9.986	25.81	25.81	1.00	1.00	NO	5.094		0.0438	5.094
2	2 1,2,3,7,8-PeCDD	45959.483	0.627	NO	0.972	9.986	30.84	30.83	1.00	1.00	NO	5.032		0.0742	5.032
3	3 1,2,3,4,7,8-HxCDD	26146.989	1.213	NO	1.07	9.986	34.22	34.22	1.00	1.00	NO	3.427		0.243	3.427
4	4 1,2,3,6,7,8-HxCDD	208792.164	1.255	NO	0.921	9.986	34.31	34.33	1.00	1.00	NO	27.38		0.251	27.38
5	5 1,2,3,7,8,9-HxCDD	77302.215	1.245	NO	0.918	9.986	34.62	34.59	1.00	1.00	NO	11.15		0.221	11.15
6	6 1,2,3,4,6,7,8-HpCDD	3920273.6...	1.014	NO	0.923	9.986	38.11	38.12	1.00	1.00	NO	652.8		1.48	652.8
7	7 OCDD	35807294....	0.888	NO	0.975	9.986	41.27	41.28	1.00	1.00	NO	8406 E*		1.02	8406
8	8 2,3,7,8-TCDF	2345137.9...	0.759	NO	0.802	9.986	24.86	24.85	1.00	1.00	NO	227.7 (208.2)		0.211	227.7
9	9 1,2,3,7,8-PeCDF	3554832.3...	1.547	NO	0.907	9.986	29.54	29.54	1.00	1.00	NO	312.4		0.204	312.4
10	10 2,3,4,7,8-PeCDF	1855375.8...	1.546	NO	0.952	9.986	30.54	30.53	1.00	1.00	NO	163.1		0.209	163.1
11	11 1,2,3,4,7,8-HxCDF	5362337.0...	1.205	NO	0.862	9.986	33.34	33.36	1.00	1.00	NO	682.3		0.345	682.3
12	12 1,2,3,6,7,8-HxCDF	1600211.5...	1.224	NO	0.841	9.986	33.47	33.48	1.00	1.00	NO	196.5		0.354	196.5
13	13 2,3,4,6,7,8-HxCDF	358061.015	1.248	NO	0.898	9.986	34.06	34.04	1.00	1.00	NO	45.80		0.403	45.80
14	14 1,2,3,7,8,9-HxCDF	78845.179	1.130	NO	0.858	9.986	34.92	34.94	1.00	1.00	NO	11.97		0.477	11.97
15	15 1,2,3,4,6,7,8-HpCDF	2512347.6...	1.008	NO	0.851	9.986	36.71	36.68	1.00	1.00	NO	442.9		0.567	442.9
16	16 1,2,3,4,7,8,9-HpCDF	705537.250	1.001	NO	0.980	9.986	38.74	38.74	1.00	1.00	NO	143.1		0.678	143.1
17	17 OCDF	4453804.2...	0.858	NO	0.806	9.986	41.45	41.46	1.00	1.00	NO	884.4 * O.K. 3/2/20		0.487	884.4
18	18 13C-2,3,7,8-TCDD	2194586.3...	0.774	NO	1.20	9.986	25.75	25.78	1.03	1.03	NO	155.2	77.5	0.112	
19	19 13C-1,2,3,7,8-PeCDD	1881301.5...	0.625	NO	0.967	9.986	30.51	30.82	1.22	1.23	NO	165.0	82.4	0.147	
20	20 13C-1,2,3,4,7,8-HxCDD	1427025.5...	1.261	NO	0.874	9.986	34.20	34.21	1.01	1.01	NO	145.3	72.5	0.224	
21	21 13C-1,2,3,6,7,8-HxCDD	1657845.0...	1.243	NO	1.05	9.986	34.30	34.31	1.02	1.02	NO	141.1	70.4	0.187	
22	22 13C-1,2,3,7,8,9-HxCDD	1512427.2...	1.264	NO	0.974	9.986	34.61	34.58	1.03	1.03	NO	138.1	69.0	0.200	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1302978.8...	1.076	NO	0.747	9.986	38.18	38.10	1.13	1.13	NO	155.2	77.5	0.310	
24	24 13C-OCDD	1750909.1...	0.907	NO	0.707	9.986	41.08	41.27	1.22	1.22	NO	220.5	55.0	0.251	
25	25 13C-2,3,7,8-TCDF	2572521.1...	0.778	NO	1.07	9.986	24.93	24.84	0.99	0.99	NO	147.6	73.7	0.156	
26	26 13C-1,2,3,7,8-PeCDF	2511358.3...	1.576	NO	1.00	9.986	29.53	29.52	1.18	1.18	NO	153.3	76.5	0.186	
27	27 13C-2,3,4,7,8-PeCDF	2394030.8...	1.583	NO	0.962	9.986	30.50	30.51	1.21	1.22	NO	152.2	76.0	0.193	
28	28 13C-1,2,3,4,7,8-HxCDF	1825506.5...	0.514	NO	1.05	9.986	33.33	33.34	0.99	0.99	NO	154.8	77.3	0.256	
29	29 13C-1,2,3,6,7,8-HxCDF	1938364.0...	0.515	NO	1.19	9.986	33.43	33.46	0.99	0.99	NO	144.9	72.4	0.226	
30	30 13C-2,3,4,6,7,8-HxCDF	1743093.3...	0.518	NO	1.07	9.986	34.04	34.03	1.01	1.01	NO	145.5	72.6	0.252	
31	31 13C-1,2,3,7,8,9-HxCDF	1537816.0...	0.518	NO	0.922	9.986	34.95	34.92	1.04	1.04	NO	148.3	74.1	0.291	

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-6.qld

Last Altered: Thursday, March 12, 2020 14:34:38 Pacific Daylight Time
Printed: Thursday, March 12, 2020 14:41:14 Pacific Daylight Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

#	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	1334769.0...	0.446	NO	0.767	9.986	36.70	36.67	1.09	1.09	NO	154.8	77.3	0.316	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1007492.6...	0.442	NO	0.552	9.986	38.72	38.74	1.15	1.15	NO	162.3	81.0	0.439	
34	34 13C-OCDF	2504049.1...	0.893	NO	0.789	9.986	41.32	41.45	1.23	1.23	NO	282.2	70.5	0.198	
35	35 37Cl-2,3,7,8-TCDD	832288.500			1.18	9.986	25.78	25.80	1.03	1.03	NO	59.97	74.9	0.0350	
36	36 13C-1,2,3,4-TCDD	2363060.8...	0.789	NO	1.00	9.986	25.11	25.11	1.00	1.00	NO	200.3	100	0.134	
37	37 13C-1,2,3,4-TCDF	3276122.8...	0.794	NO	1.00	9.986	23.37	23.35	1.00	1.00	NO	200.3	100	0.167	
38	38 13C-1,2,3,4,6,9-HxCDF	2250955.6...	0.516	NO	1.00	9.986	33.71	33.73	1.00	1.00	NO	200.3	100	0.269	
39	39 Total Tetra-Dioxins				0.988	9.986	24.62		0.00		NO	23.20		0.0438	23.85
40	40 Total Penta-Dioxins				0.972	9.986	29.96		0.00		NO	31.41		0.0742	31.41
41	41 Total Hexa-Dioxins				0.921	9.986	33.63		0.00		NO	194.8		0.251	194.8
42	42 Total Hepta-Dioxins				0.923	9.986	37.64		0.00		NO	1380		1.48	1380
43	43 Total Tetra-Furans				0.802	9.986	23.61		0.00		NO	718.6		0.211	720.9
44	44 1st Func. Penta-Furans				0.907	9.986	27.09		0.00		NO	51.79		0.0293	51.79
45	45 Total Penta-Furans				0.907	9.986	29.27		0.00		NO	864.1		0.211	864.1
46	46 Total Hexa-Furans				0.898	9.986	33.56		0.00		NO	1262		0.376	1264
47	47 Total Hepta-Furans				0.851	9.986	37.83		0.00		NO	1067		0.659	1067

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-6.qld

Last Altered: Thursday, March 12, 2020 14:34:38 Pacific Daylight Time

Printed: Thursday, March 12, 2020 14:39:13 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	1 2,3,7,8-TCDD	5.52e4	2.19e6	0.756	NO	25.81	25.81	5.094	5.094
2	39 Total Tetra-Dioxins	4.64e4	2.19e6	0.780	NO	24.62	25.53	4.290	4.290
3	39 Total Tetra-Dioxins	0.00e0	2.19e6	0.900	YES	24.62	25.23	0.0000	0.1295
4	39 Total Tetra-Dioxins	4.07e3	2.19e6	0.724	NO	24.62	25.08	0.3764	0.3764
5	39 Total Tetra-Dioxins	4.62e3	2.19e6	0.695	NO	24.62	24.70	0.4270	0.4270
6	39 Total Tetra-Dioxins	2.40e3	2.19e6	0.717	NO	24.62	24.54	0.2217	0.2217
7	39 Total Tetra-Dioxins	4.92e3	2.19e6	0.712	NO	24.62	24.24	0.4544	0.4544
8	39 Total Tetra-Dioxins	2.08e4	2.19e6	0.742	NO	24.62	24.01	1.921	1.921
9	39 Total Tetra-Dioxins	1.49e4	2.19e6	0.775	NO	24.62	23.83	1.378	1.378
10	39 Total Tetra-Dioxins	4.75e3	2.19e6	0.840	NO	24.62	23.52	0.4389	0.4389
11	39 Total Tetra-Dioxins	0.00e0	2.19e6	0.938	YES	24.62	22.62	0.0000	0.4181
12	39 Total Tetra-Dioxins	2.41e4	2.19e6	0.793	NO	24.62	22.14	2.222	2.222
13	39 Total Tetra-Dioxins	5.85e4	2.19e6	0.754	NO	24.62	21.69	5.402	5.402
14	39 Total Tetra-Dioxins	1.92e3	2.19e6	0.797	NO	24.62	26.75	0.1771	0.1771
15	39 Total Tetra-Dioxins	0.00e0	2.19e6	1.068	YES	24.62	26.27	0.0000	0.09870
16	39 Total Tetra-Dioxins	8.67e3	2.19e6	0.842	NO	24.62	26.14	0.8006	0.8006

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-6.qld

Last Altered: Thursday, March 12, 2020 14:34:38 Pacific Daylight Time

Printed: Thursday, March 12, 2020 14:39:13 Pacific Daylight Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	8.92e3	1.88e6	0.613	NO	29.96	31.23	0.9770	0.9770
2	2 1,2,3,7,8-PeCDD	4.60e4	1.88e6	0.627	NO	30.84	30.83	5.032	5.032
3	40 Total Penta-Dioxins	1.07e4	1.88e6	0.672	NO	29.96	30.41	1.170	1.170
4	40 Total Penta-Dioxins	2.64e4	1.88e6	0.663	NO	29.96	30.07	2.888	2.888
5	40 Total Penta-Dioxins	1.75e4	1.88e6	0.682	NO	29.96	29.84	1.916	1.916
6	40 Total Penta-Dioxins	3.13e4	1.88e6	0.584	NO	29.96	29.75	3.422	3.422
7	40 Total Penta-Dioxins	5.23e4	1.88e6	0.664	NO	29.96	29.58	5.729	5.729
8	40 Total Penta-Dioxins	1.36e4	1.88e6	0.605	NO	29.96	29.08	1.493	1.493
9	40 Total Penta-Dioxins	7.19e4	1.88e6	0.616	NO	29.96	28.61	7.868	7.868
10	40 Total Penta-Dioxins	8.36e3	1.88e6	0.660	NO	29.96	30.90	0.9150	0.9150

Hexa-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	1.74e4	0.00e0	1.209	NO	33.63	34.54	2.465	2.465
2	4 1,2,3,6,7,8-HxCDD	2.09e5	1.66e6	1.255	NO	34.31	34.33	27.38	27.38
3	3 1,2,3,4,7,8-HxCDD	2.61e4	1.43e6	1.213	NO	34.22	34.22	3.427	3.427
4	41 Total Hexa-Dioxins	6.11e5	0.00e0	1.244	NO	33.63	33.55	86.64	86.64
5	41 Total Hexa-Dioxins	6.29e4	0.00e0	1.265	NO	33.63	33.29	8.929	8.929
6	41 Total Hexa-Dioxins	3.86e5	0.00e0	1.241	NO	33.63	32.74	54.80	54.80
7	5 1,2,3,7,8,9-HxCDD	7.73e4	1.51e6	1.245	NO	34.62	34.59	11.15	11.15

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	3.92e6	1.30e6	1.014	NO	38.11	38.12	652.8	652.8
2	42 Total Hepta-Dioxins	4.37e6	1.30e6	1.023	NO	37.64	37.06	727.3	727.3

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-6.qld

Last Altered: Thursday, March 12, 2020 14:34:38 Pacific Daylight Time

Printed: Thursday, March 12, 2020 14:39:13 Pacific Daylight Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	7.66e4	2.57e6	0.765	NO	23.61	24.18	7.437	7.437
2	43 Total Tetra-Furans	1.87e6	2.57e6	0.759	NO	23.61	23.92	181.3	181.3
3	43 Total Tetra-Furans	9.36e5	2.57e6	0.761	NO	23.61	23.36	90.91	90.91
4	43 Total Tetra-Furans	3.10e4	2.57e6	0.756	NO	23.61	23.07	3.009	3.009
5	43 Total Tetra-Furans	1.50e4	2.57e6	0.736	NO	23.61	22.92	1.459	1.459
6	43 Total Tetra-Furans	9.08e4	2.57e6	0.771	NO	23.61	22.55	8.811	8.811
7	43 Total Tetra-Furans	3.07e4	2.57e6	0.870	NO	23.61	22.32	2.976	2.976
8	43 Total Tetra-Furans	1.36e5	2.57e6	0.744	NO	23.61	22.14	13.16	13.16
9	43 Total Tetra-Furans	4.11e5	2.57e6	0.760	NO	23.61	21.68	39.94	39.94
10	43 Total Tetra-Furans	1.00e5	2.57e6	0.742	NO	23.61	21.29	9.708	9.708
11	43 Total Tetra-Furans	2.78e5	2.57e6	0.745	NO	23.61	20.72	27.03	27.03
12	43 Total Tetra-Furans	5.00e4	2.57e6	0.742	NO	23.61	20.14	4.859	4.859
13	43 Total Tetra-Furans	2.55e5	2.57e6	0.885	NO	23.61	26.92	24.74	24.74
14	43 Total Tetra-Furans	2.02e4	2.57e6	0.722	NO	23.61	25.50	1.963	1.963
15	43 Total Tetra-Furans	1.54e5	2.57e6	0.738	NO	23.61	25.26	14.94	14.94
16	8 2,3,7,8-TCDF	2.35e6	2.57e6	0.759	NO	24.86	24.85	227.7	227.7
17	43 Total Tetra-Furans	5.24e5	2.57e6	0.741	NO	23.61	24.75	50.86	50.86
18	43 Total Tetra-Furans	0.00e0	2.57e6	0.957	YES	23.61	24.63	0.0000	2.240
19	43 Total Tetra-Furans	7.73e4	2.57e6	0.776	NO	23.61	24.40	7.502	7.502
20	43 Total Tetra-Furans	3.58e3	2.57e6	0.830	NO	23.61	19.63	0.3479	0.3479

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	5.76e5	0.00e0	1.548	NO	27.09	26.95	51.79	51.79

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-6.qld

Last Altered: Thursday, March 12, 2020 14:34:38 Pacific Daylight Time

Printed: Thursday, March 12, 2020 14:39:13 Pacific Daylight Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	3.02e4	0.00e0	1.586	NO	29.27	30.42	2.718	2.718
2	45 Total Penta-Furans	1.14e6	0.00e0	1.533	NO	29.27	29.81	102.6	102.6
3	9 1,2,3,7,8-PeCDF	3.55e6	2.51e6	1.547	NO	29.54	29.54	312.4	312.4
4	45 Total Penta-Furans	4.24e5	0.00e0	1.523	NO	29.27	29.35	38.11	38.11
5	45 Total Penta-Furans	5.69e5	0.00e0	1.563	NO	29.27	29.13	51.18	51.18
6	45 Total Penta-Furans	6.38e3	0.00e0	1.393	NO	29.27	28.93	0.5742	0.5742
7	45 Total Penta-Furans	1.99e6	0.00e0	1.548	NO	29.27	28.55	179.3	179.3
8	45 Total Penta-Furans	7.03e4	0.00e0	1.493	NO	29.27	28.39	6.330	6.330
9	45 Total Penta-Furans	8.54e4	0.00e0	1.523	NO	29.27	31.46	7.690	7.690
10	10 2,3,4,7,8-PeCDF	1.86e6	2.39e6	1.546	NO	30.54	30.53	163.1	163.1

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	12 1,2,3,6,7,8-HxCDF	1.60e6	1.94e6	1.224	NO	33.47	33.48	196.5	196.5
2	11 1,2,3,4,7,8-HxCDF	5.36e6	1.83e6	1.205	NO	33.34	33.36	682.3	682.3
3	46 Total Hexa-Furans	3.48e4	0.00e0	1.175	NO	33.56	33.25	4.401	4.401
4	46 Total Hexa-Furans	0.00e0	0.00e0	0.980	YES	33.56	33.08	0.0000	0.4494
5	46 Total Hexa-Furans	8.79e5	0.00e0	1.205	NO	33.56	32.90	111.3	111.3
6	46 Total Hexa-Furans	1.64e4	0.00e0	1.241	NO	33.56	32.72	2.074	2.074
7	46 Total Hexa-Furans	5.26e3	0.00e0	1.252	NO	33.56	32.55	0.6653	0.6653
8	46 Total Hexa-Furans	9.21e5	0.00e0	1.215	NO	33.56	32.37	116.7	116.7
9	46 Total Hexa-Furans	2.34e5	0.00e0	1.192	NO	33.56	32.20	29.58	29.58
10	14 1,2,3,7,8,9-HxCDF	7.88e4	1.54e6	1.130	NO	34.92	34.94	11.97	11.97
11	13 2,3,4,6,7,8-HxCDF	3.58e5	1.74e6	1.248	NO	34.06	34.04	45.80	45.80
12	46 Total Hexa-Furans	0.00e0	0.00e0	1.640	YES	33.56	33.84	0.0000	2.036
13	46 Total Hexa-Furans	4.79e4	0.00e0	1.340	NO	33.56	33.73	6.070	6.070
14	46 Total Hexa-Furans	4.31e5	0.00e0	1.206	NO	33.56	34.98	54.61	54.61

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-6.qld

Last Altered: Thursday, March 12, 2020 14:34:38 Pacific Daylight Time

Printed: Thursday, March 12, 2020 14:39:13 Pacific Daylight Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	7.06e5	1.01e6	1.001	NO	38.74	38.74	143.1	143.1
2	47 Total Hepta-Furans	2.36e6	0.00e0	1.001	NO	37.83	37.27	475.2	475.2
3	47 Total Hepta-Furans	2.96e4	0.00e0	1.125	NO	37.83	37.06	5.952	5.952
4	15 1,2,3,4,6,7,8-HpCDF	2.51e6	1.33e6	1.008	NO	36.71	36.68	442.9	442.9

Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

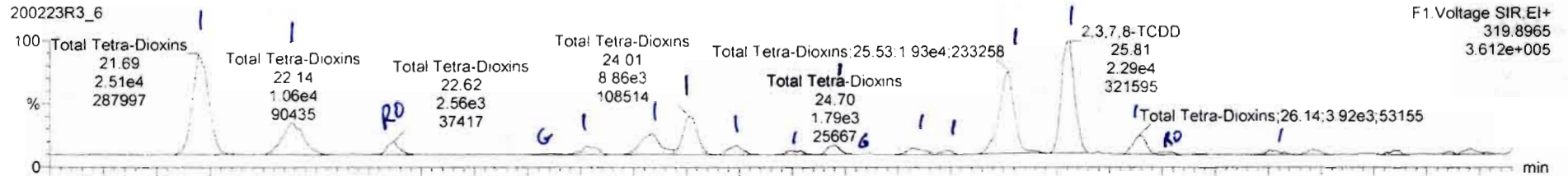
Handwritten: 02/28/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

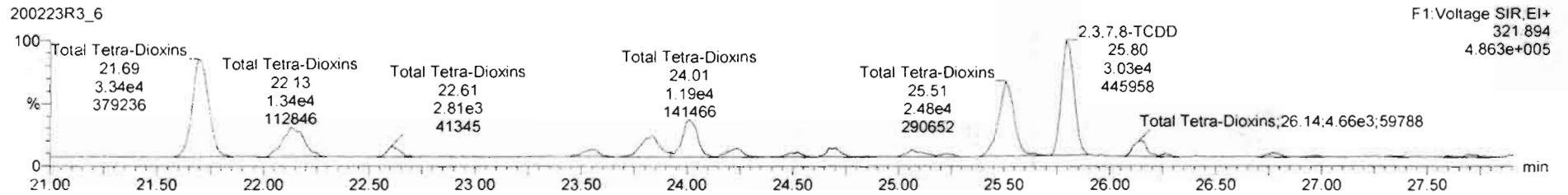
Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

2,3,7,8-TCDD

200223R3_6

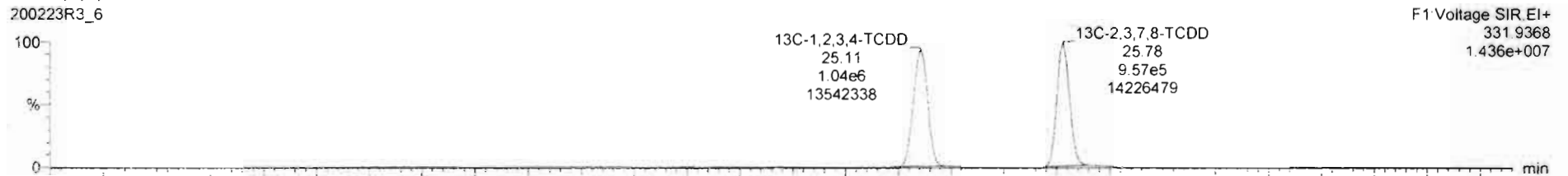


200223R3_6

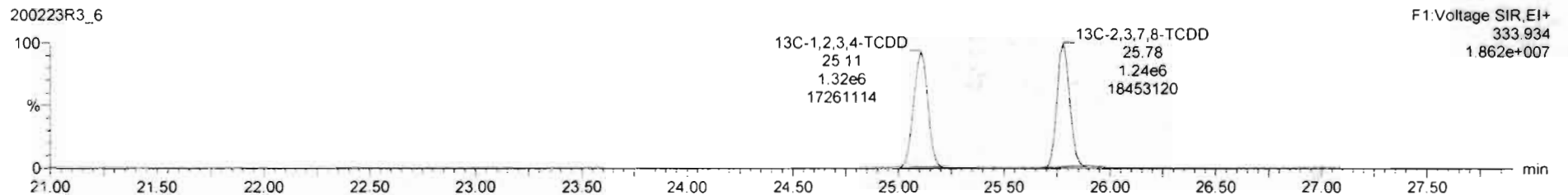


13C-2,3,7,8-TCDD

200223R3_6

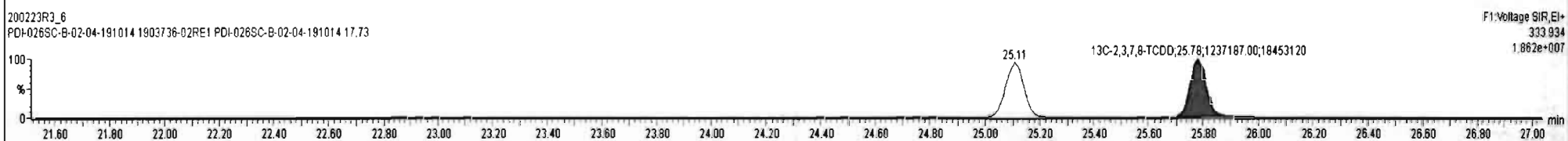
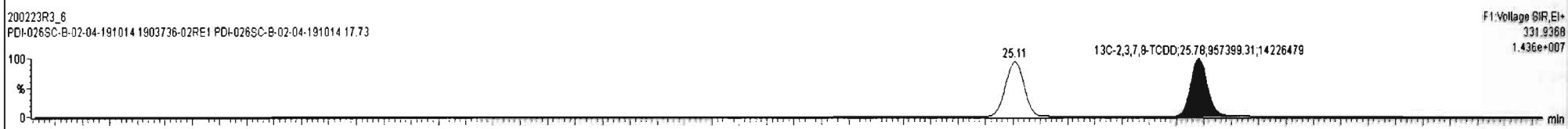
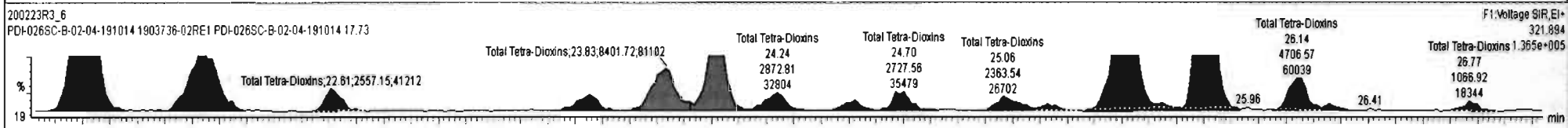
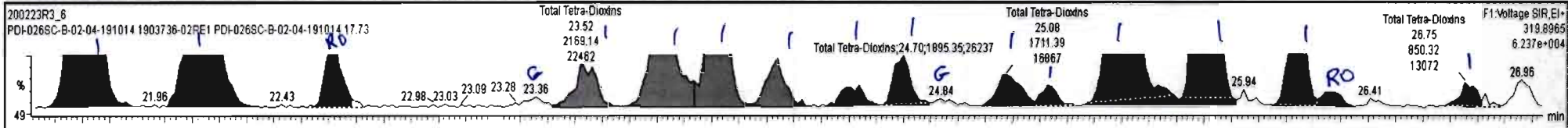


200223R3_6



#	Name	Resp	RA	n/y	RF	wtAval	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	9.985	24.82		0.000		NO	23.20		0.0438	23.85
40	Total Penta-Dioxins				0.9723	9.986	29.96		0.000		NO	25.41		0.0742	30.45
41	Total Hexa-Dioxins				0.9211	9.986	33.63		0.000		NO	194.1		0.251	195.8

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
1	39 Total Tetra-Dioxins	24.52	21.69	2.514e4	3.335e4	0.770	0.75	NO	5.4023	5.4023
2	39 Total Tetra-Dioxins	24.52	22.14	1.064e4	1.342e4	0.770	0.79	NO	2.2220	2.2220
3	39 Total Tetra-Dioxins	24.52	22.62	2.400e3	2.557e3	0.770	0.94	YES	0.41806	0.00000
4	39 Total Tetra-Dioxins	24.52	23.52	2.189e3	2.582e3	0.770	0.84	NO	0.43886	0.43886
5	39 Total Tetra-Dioxins	24.52	23.83	6.513e3	8.402e3	0.770	0.78	NO	1.3776	1.3776
6	39 Total Tetra-Dioxins	24.52	24.01	8.859e3	1.193e4	0.770	0.74	NO	1.9206	1.9206
7	39 Total Tetra-Dioxins	24.52	24.24	2.047e3	2.873e3	0.770	0.71	NO	0.45437	0.45437
8	39 Total Tetra-Dioxins	24.52	24.54	1.002e3	1.398e3	0.770	0.72	NO	0.22186	0.22186
9	39 Total Tetra-Dioxins	24.52	24.70	1.895e3	2.728e3	0.770	0.69	NO	0.42699	0.42699
10	39 Total Tetra-Dioxins	24.52	25.08	1.711e3	2.364e3	0.770	0.72	NO	0.37638	0.37638
11	39 Total Tetra-Dioxins	24.52	25.23	7.130e2	7.922e2	0.770	0.90	YES	0.12951	0.00000
12	39 Total Tetra-Dioxins	24.52	25.53	2.036e4	2.609e4	0.770	0.78	NO	4.2900	4.2900
13	1 2,3,7-TCDD	25.81	25.81	2.374e4	3.142e4	0.770	0.76	NO	5.0942	5.0942
14	39 Total Tetra-Dioxins	24.52	26.14	3.961e3	4.707e3	0.770	0.84	NO	0.80659	0.80659
15	39 Total Tetra-Dioxins	24.52	26.27	6.447e2	6.037e2	0.770	1.07	YES	0.098703	0.00000



Dataset: Untitled

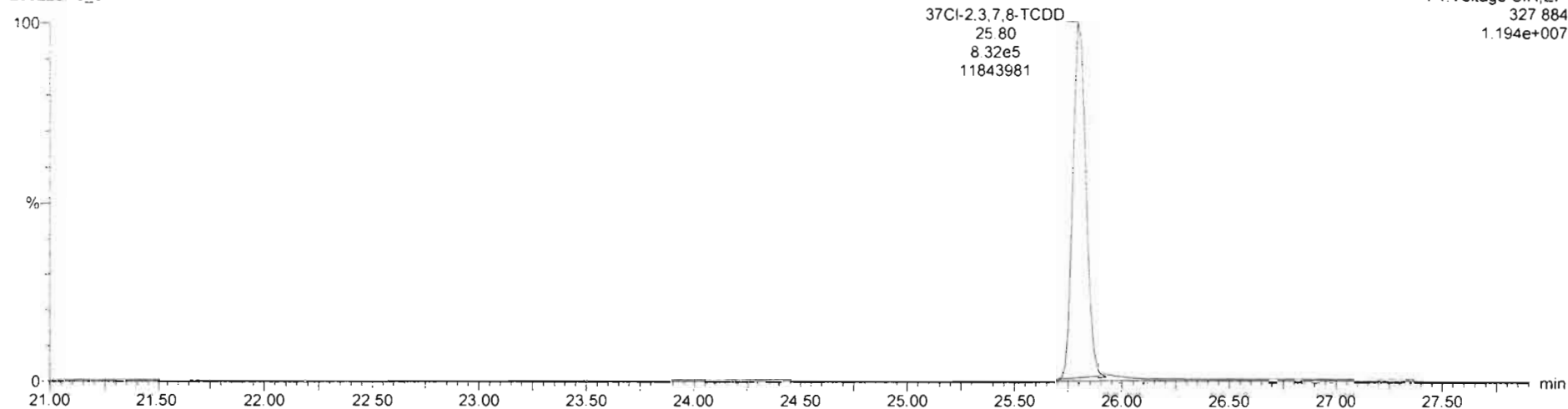
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

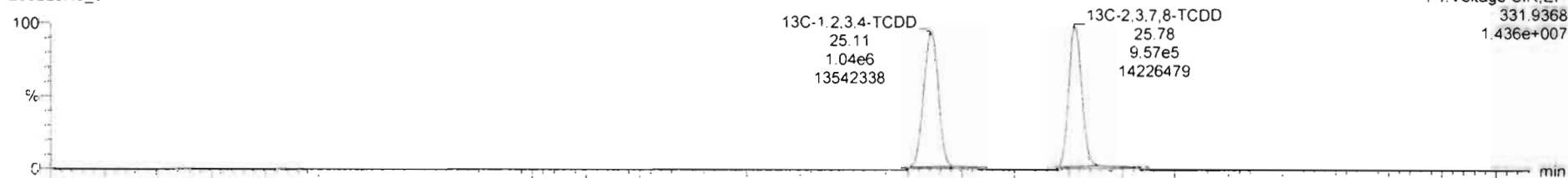
37Cl-2,3,7,8-TCDD

200223R3_6

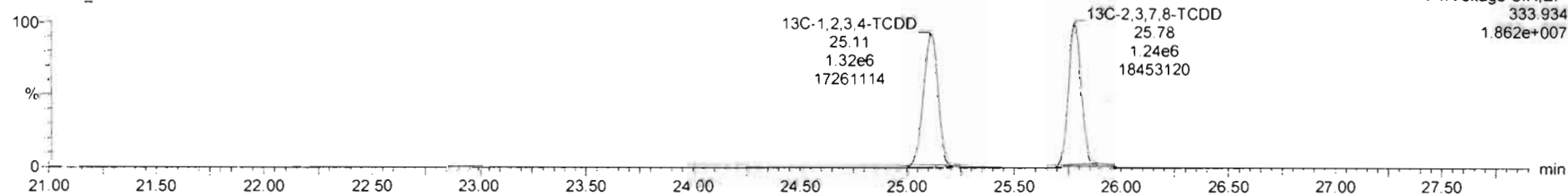


13C-1,2,3,4-TCDD

200223R3_6



200223R3_6



Dataset: Untitled

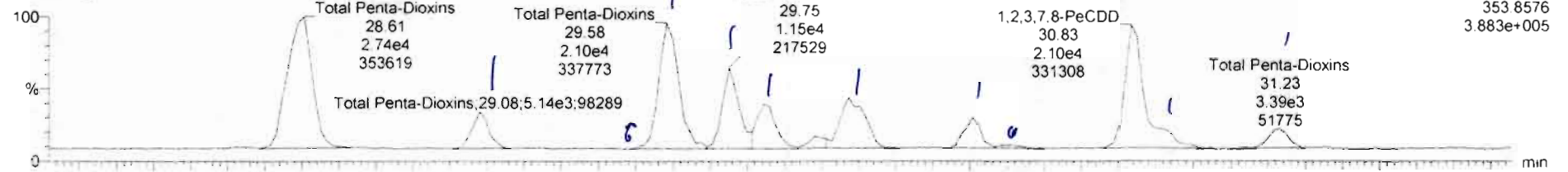
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

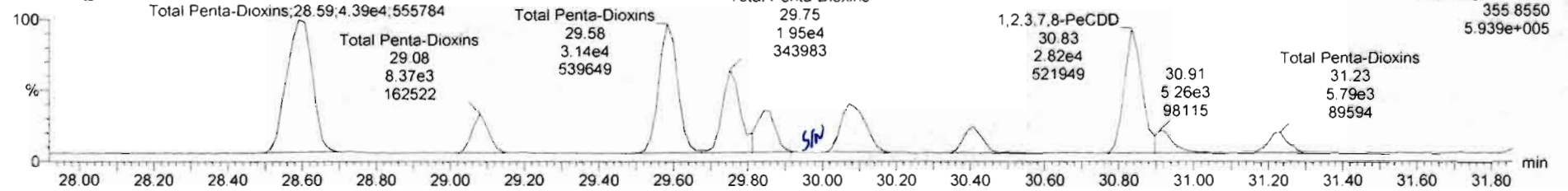
Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

1,2,3,7,8-PeCDD

200223R3_6

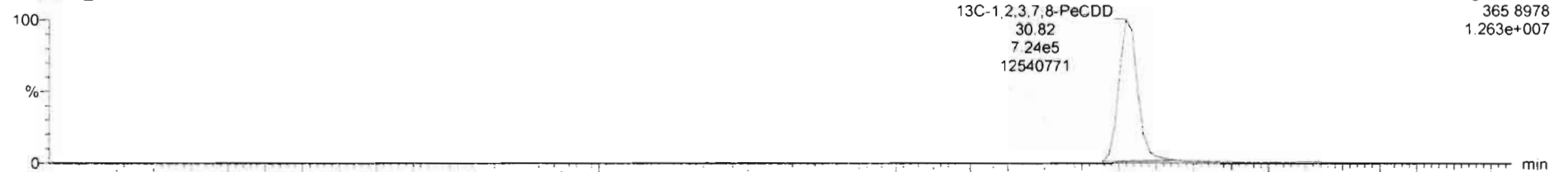


200223R3_6

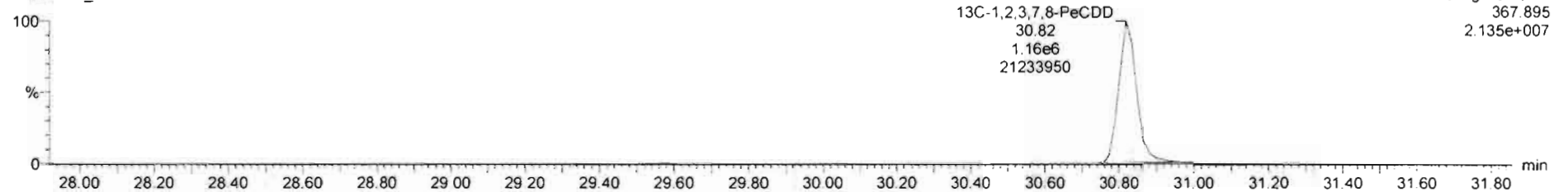


13C-1,2,3,7,8-PeCDD

200223R3_6



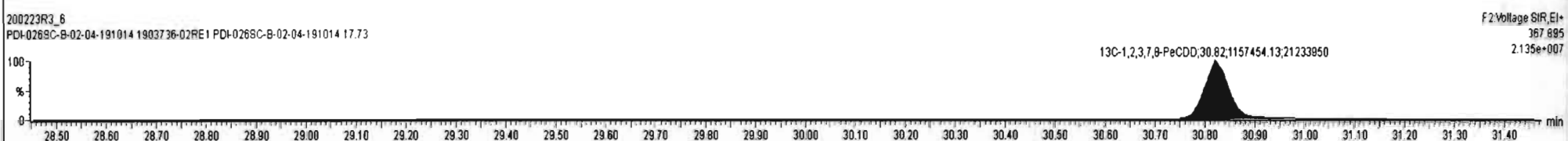
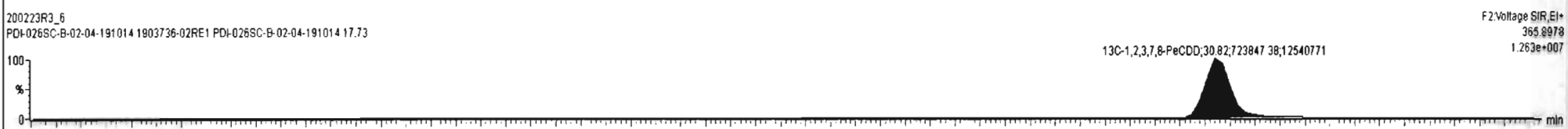
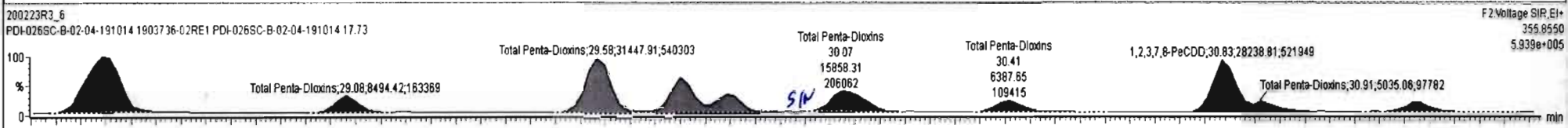
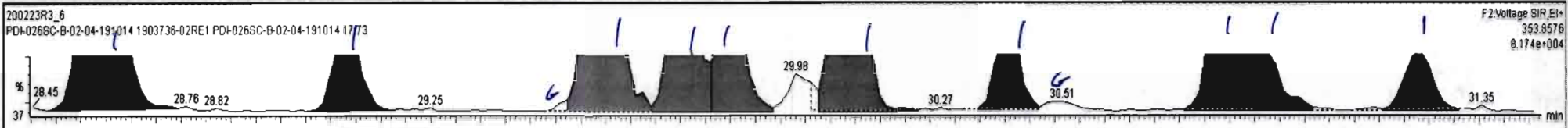
200223R3_6



200223R3_6-10027260-02RE1-PDI-026SC-B-02-04-191014-17.73-PDI-026SC-B-02-04-191014

#	Name	Resp	RA	n/y	RRF	wtAnd	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	9.996	24.62		0.000		NO	23.20		0.0438	23.85
40	Total Penta-Dioxins				0.9723	9.996	29.98		0.000		NO	31.41		0.0742	31.41
41	Total Hexa-Dioxins				0.9211	9.986	33.63		0.000		NO	194.1		0.251	195.8

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	28.61	2.738e4	4.447e4	0.630	0.62	NO	7.8679	7.8679
2	40 Total Penta-Dioxins	29.96	29.08	5.140e3	8.494e3	0.630	0.61	NO	1.4928	1.4928
3	40 Total Penta-Dioxins	29.96	29.58	2.087e4	3.145e4	0.630	0.66	NO	5.7290	5.7290
4	40 Total Penta-Dioxins	29.96	29.75	1.153e4	1.873e4	0.630	0.58	NO	3.4221	3.4221
5	40 Total Penta-Dioxins	29.96	29.84	7.097e3	1.040e4	0.630	0.68	NO	1.9160	1.9160
6	40 Total Penta-Dioxins	29.96	30.07	1.051e4	1.585e4	0.630	0.66	NO	2.8876	2.8876
7	40 Total Penta-Dioxins	29.96	30.41	4.295e3	6.388e3	0.630	0.67	NO	1.1697	1.1697
8	2 1,2,3,7,8-PeCDD	30.84	30.83	1.772e4	2.824e4	0.630	0.63	NO	5.0323	5.0323
9	40 Total Penta-Dioxins	29.96	30.90	3.321e3	5.035e3	0.630	0.66	NO	0.91499	0.91499
10	40 Total Penta-Dioxins	29.96	31.23	3.389e3	5.534e3	0.630	0.61	NO	0.97698	0.97698



Dataset: Untitled

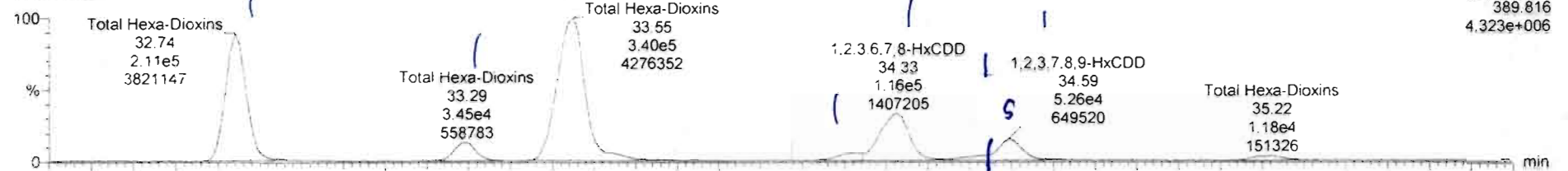
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

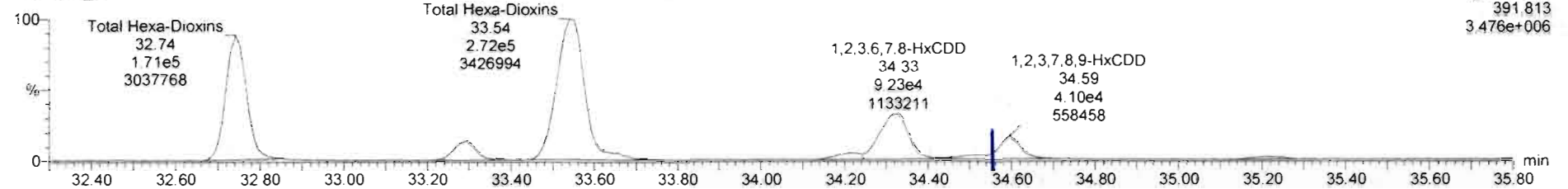
Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

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

200223R3_6

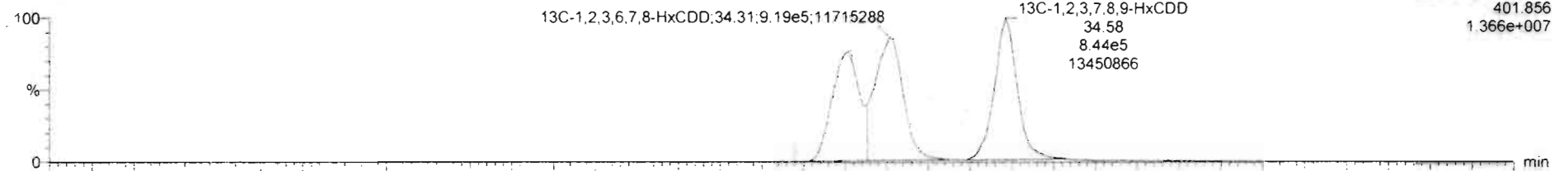


200223R3_6

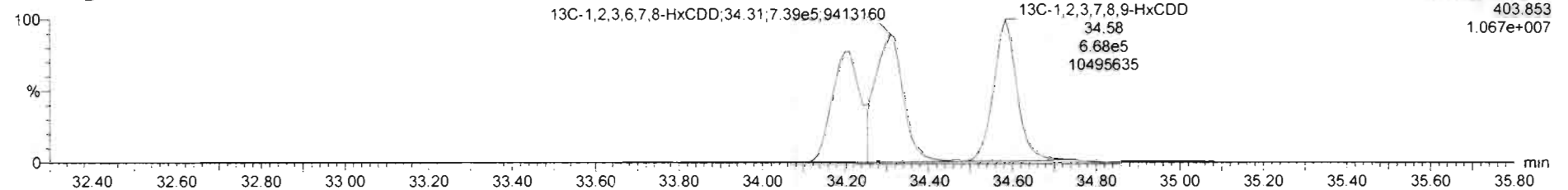


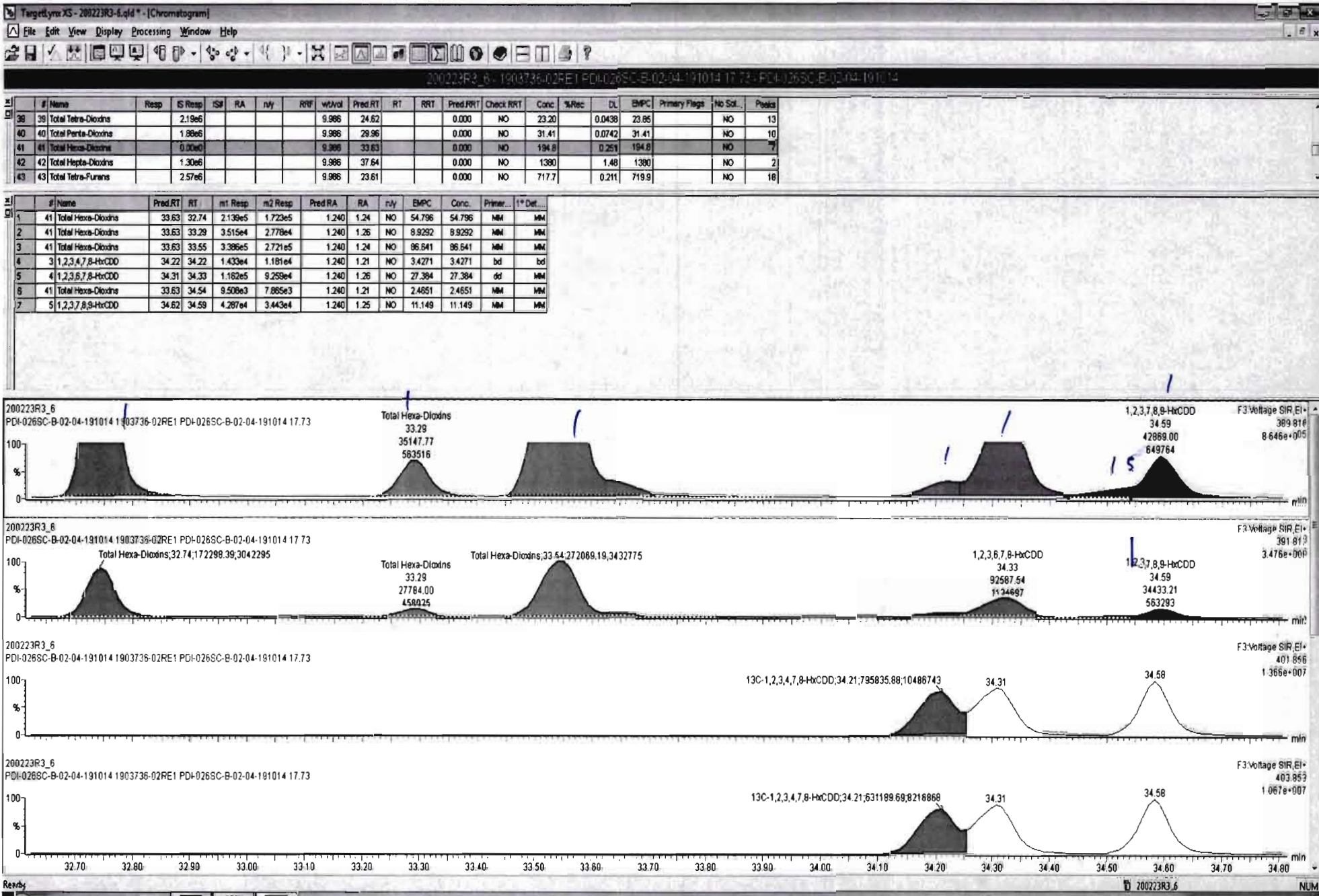
13C-1,2,3,4,7,8-HxCDD

200223R3_6



200223R3_6





Dataset: Untitled

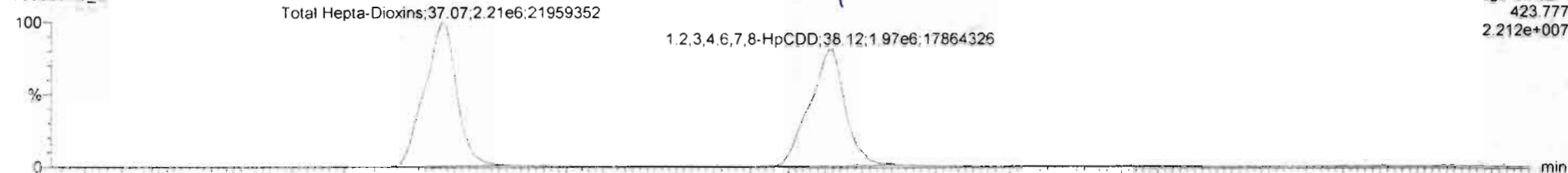
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

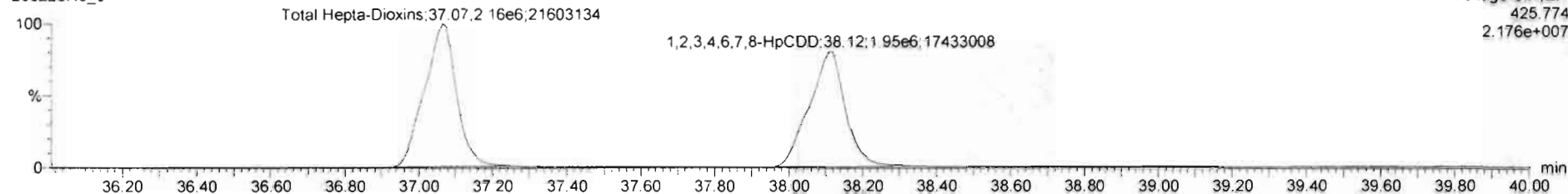
Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

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

200223R3_6

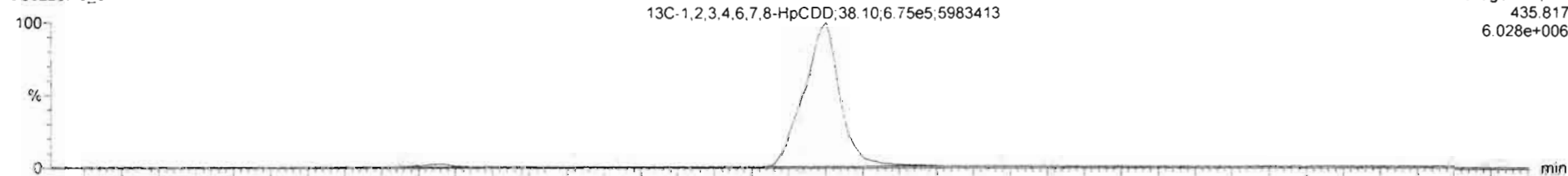


200223R3_6

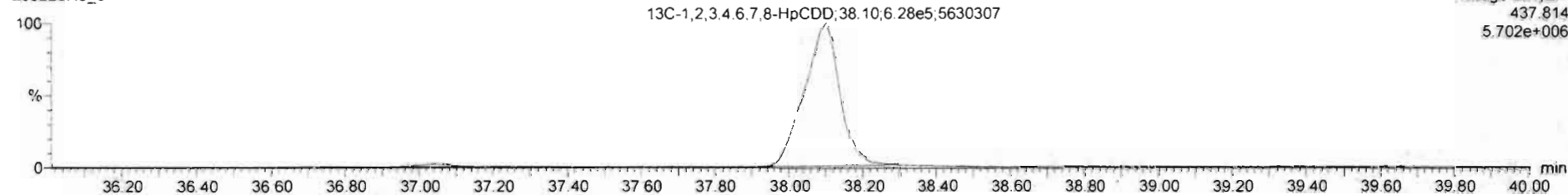


13C-1,2,3,4,6,7,8-HpCDD

200223R3_6



200223R3_6

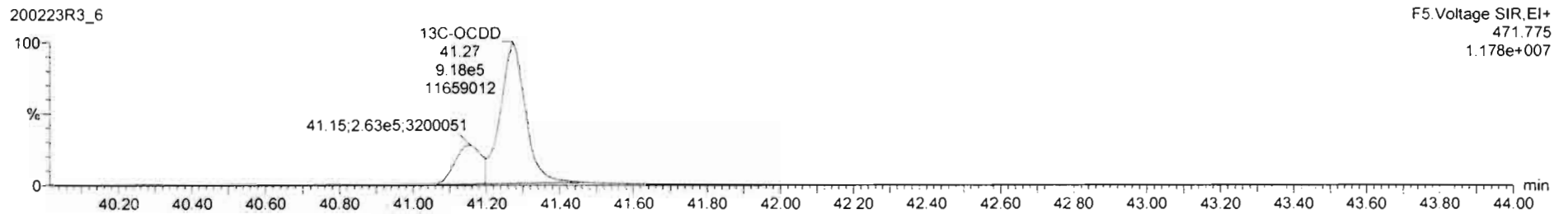
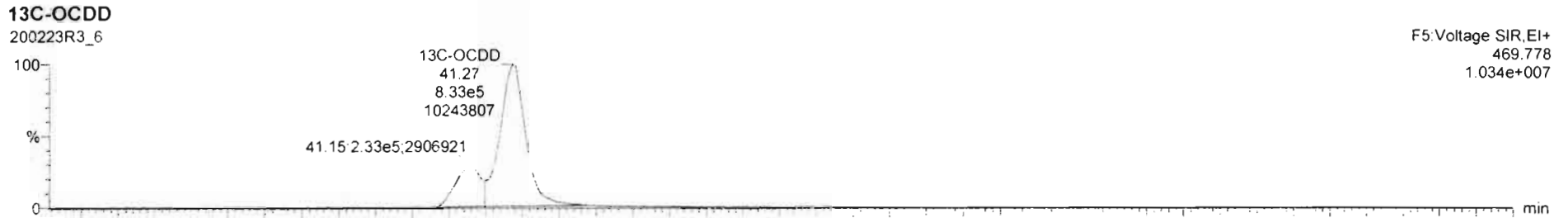
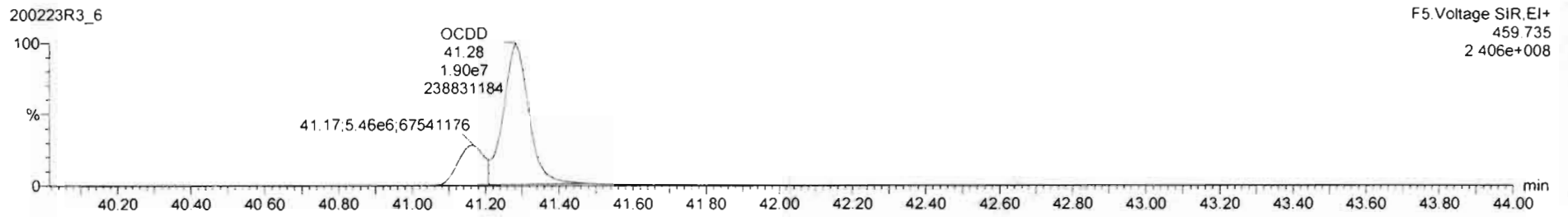
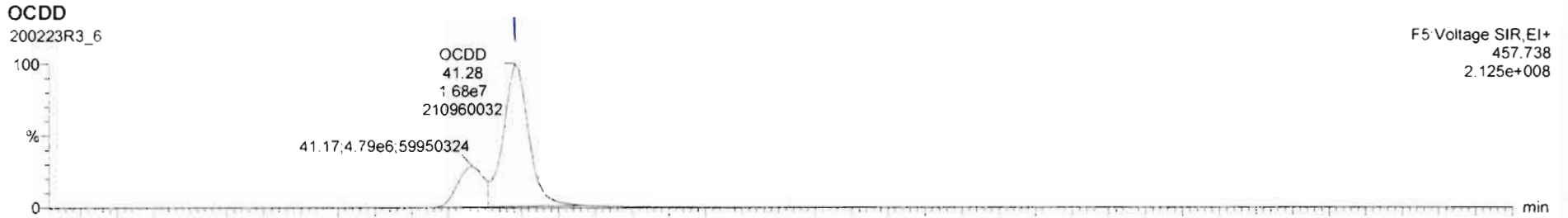


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014



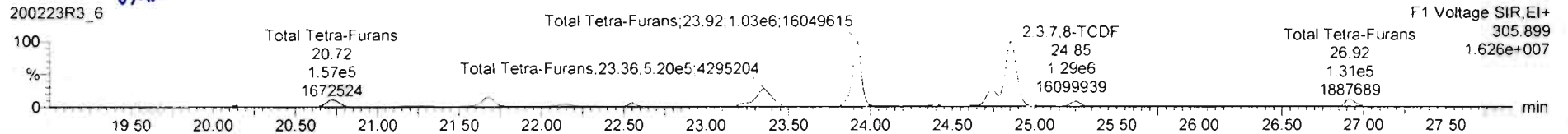
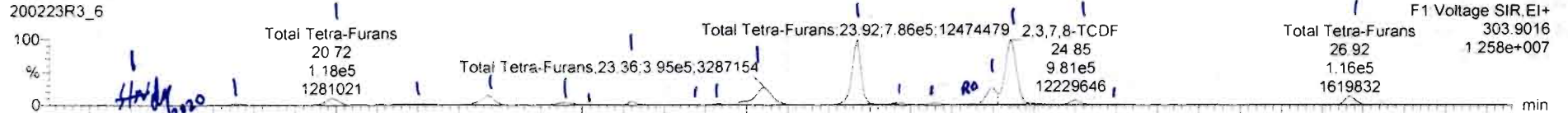
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

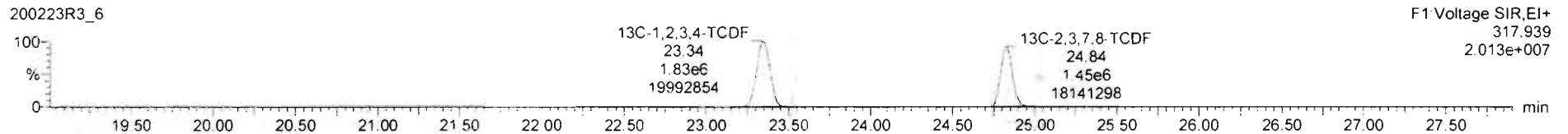
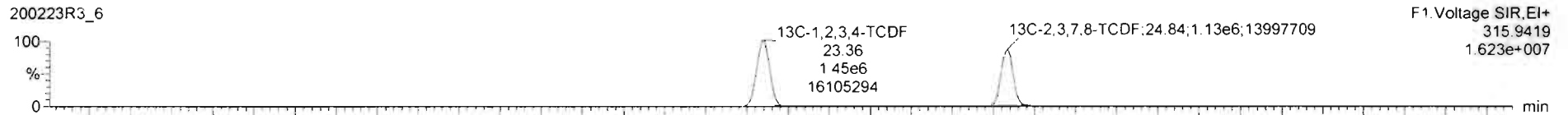
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

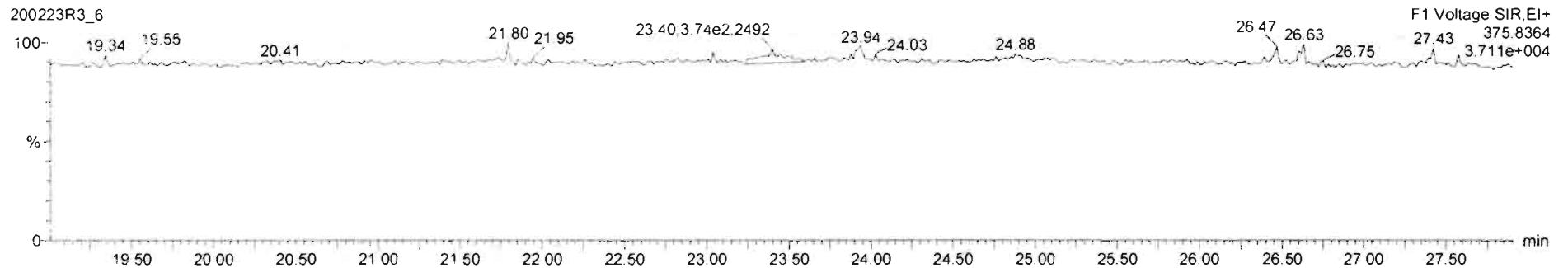
2,3,7,8-TCDF



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



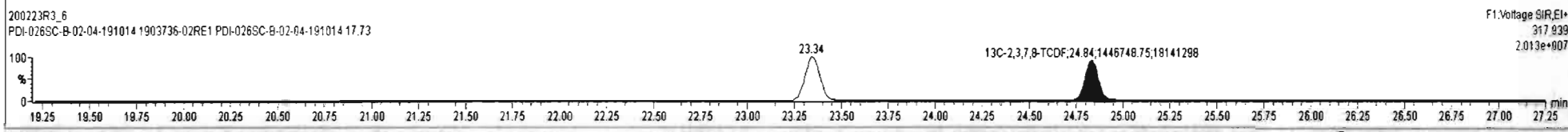
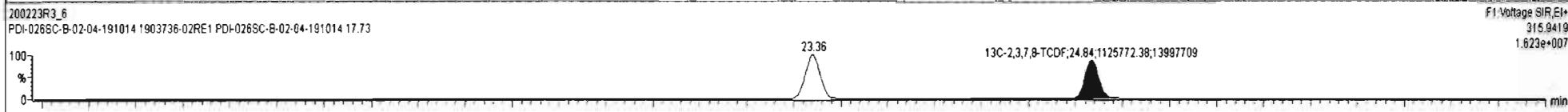
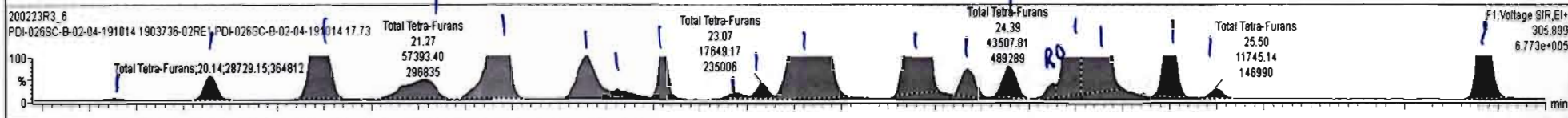
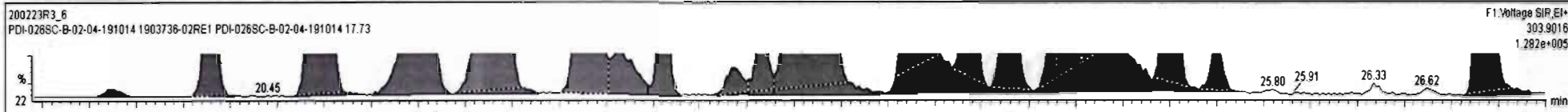
DPE1



200223R3_6 - 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73 - PDI-026SC-B-02-04-191014

#	Name	Resp	IS Resp	ISF	RA	n1y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC	Primary Flags	No Sol.	Peaks
43	Total Tetra-Furans		2.57e6				9.986	23.81	0.000			0.000	NO	719.6	0.211	720.8		NO		18
44	1st Func. Penta-Furans		0.00e0				9.986	27.09	0.000			0.000	NO	51.79	0.0283	51.79		NO		1

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n1y	EMPC	Conc.	Primar.	1* Det.
1	Total Tetra-Furans	23.61	19.63	1.626e3	1.958e3	0.770	0.83	NO	0.34789	0.34789	MM	MM
2	Total Tetra-Furans	23.61	20.14	2.132e4	2.873e4	0.770	0.74	NO	4.8587	4.8587	MM	MM
3	Total Tetra-Furans	23.61	20.72	1.188e5	1.595e5	0.770	0.75	NO	27.032	27.032	MM	MM
4	Total Tetra-Furans	23.61	21.28	4.261e4	5.739e4	0.770	0.74	NO	9.7084	9.7084	bb	MM
5	Total Tetra-Furans	23.61	21.68	1.776e5	2.338e5	0.770	0.76	NO	39.945	39.945	MM	MM
6	Total Tetra-Furans	23.61	22.14	5.781e4	7.772e4	0.770	0.74	NO	13.158	13.158	MM	dd
7	Total Tetra-Furans	23.61	22.32	1.426e4	1.639e4	0.770	0.87	NO	2.9760	2.9760	dd	dd
8	Total Tetra-Furans	23.61	22.55	3.952e4	5.124e4	0.770	0.77	NO	8.8111	8.8111	db	db
9	Total Tetra-Furans	23.61	22.82	6.373e3	8.681e3	0.770	0.74	NO	1.4594	1.4594	MM	MM
10	Total Tetra-Furans	23.61	23.07	1.335e4	1.785e4	0.770	0.76	NO	3.0094	3.0094	MM	MM
11	Total Tetra-Furans	23.61	23.36	4.047e5	5.317e5	0.770	0.76	NO	90.907	90.907	MM	MM
12	Total Tetra-Furans	23.61	23.92	8.060e5	1.061e6	0.770	0.76	NO	161.30	161.30	MM	MM
13	Total Tetra-Furans	23.61	24.18	3.320e4	4.341e4	0.770	0.76	NO	7.4374	7.4374	MM	MM
14	Total Tetra-Furans	23.61	24.40	3.377e4	4.351e4	0.770	0.78	NO	7.5020	7.5020	MM	MM
15	Total Tetra-Furans	23.61	24.63	1.247e4	1.304e4	0.770	0.96	YES	2.2398	0.00000	MM	MM
16	Total Tetra-Furans	23.61	24.75	2.230e5	3.009e5	0.770	0.74	NO	50.861	50.861	MM	MM
17	2,3,7,8-TCDF	24.86	24.85	1.012e6	1.333e6	0.770	0.76	NO	227.68	227.68	MM	MM
18	Total Tetra-Furans	23.61	25.26	6.537e4	8.853e4	0.770	0.74	NO	14.941	14.941	MM	MM
19	Total Tetra-Furans	23.61	25.50	8.490e3	1.175e4	0.770	0.72	NO	1.9635	1.9635	MM	MM
20	Total Tetra-Furans	23.61	26.92	1.197e5	1.352e5	0.770	0.88	NO	24.742	24.742	MM	MM



Dataset: Untitled

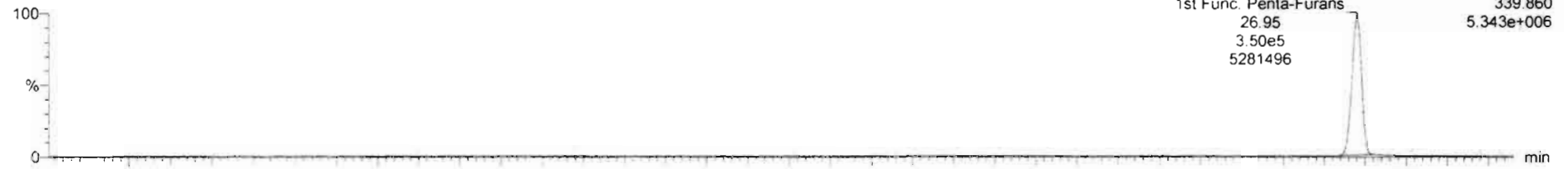
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

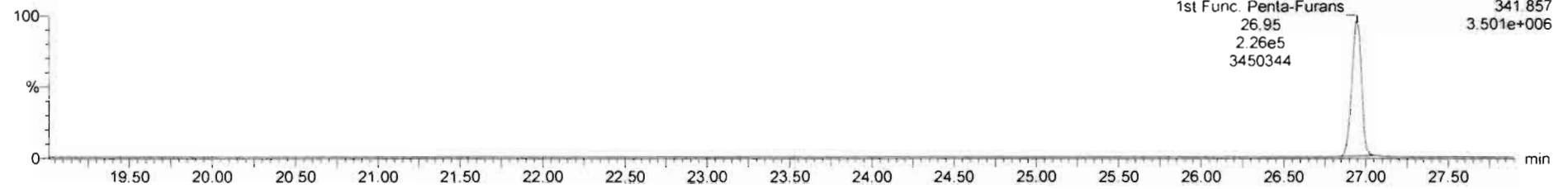
Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

1st Func. Penta-Furans

200223R3_6

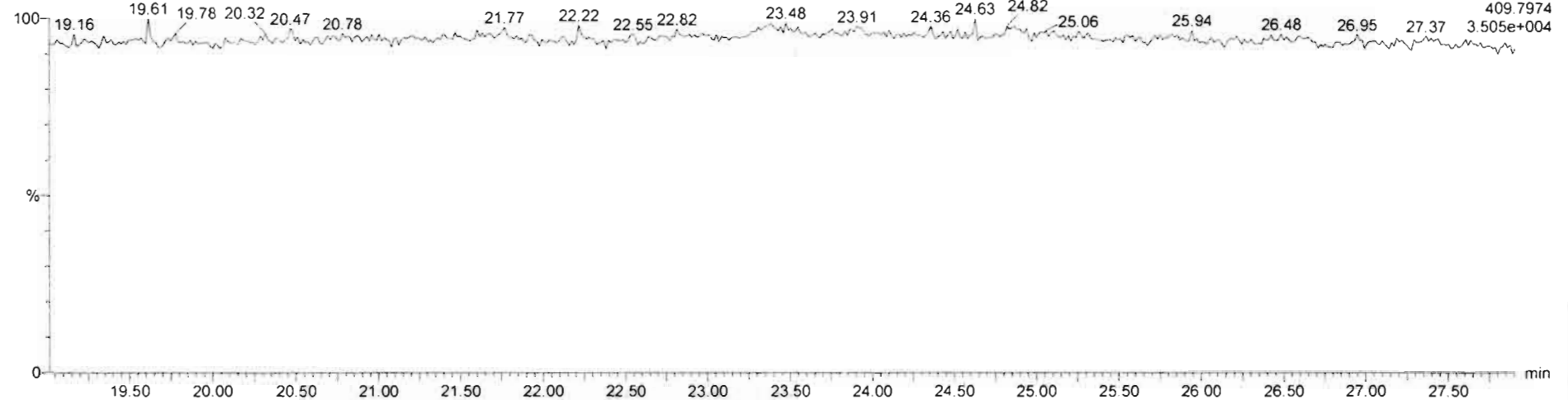


200223R3_6



DPE6

200223R3_6



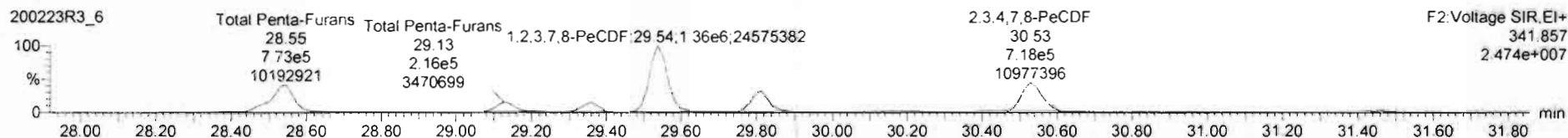
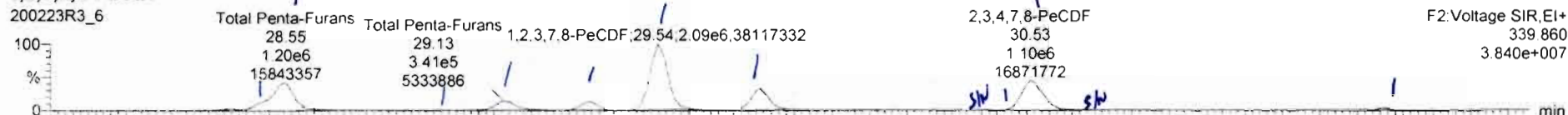
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

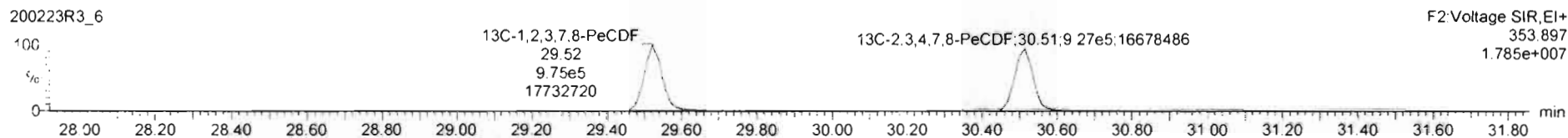
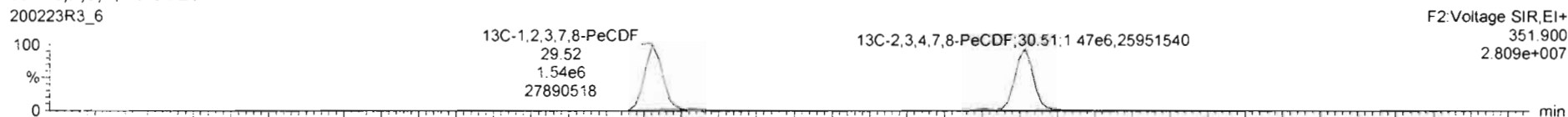
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

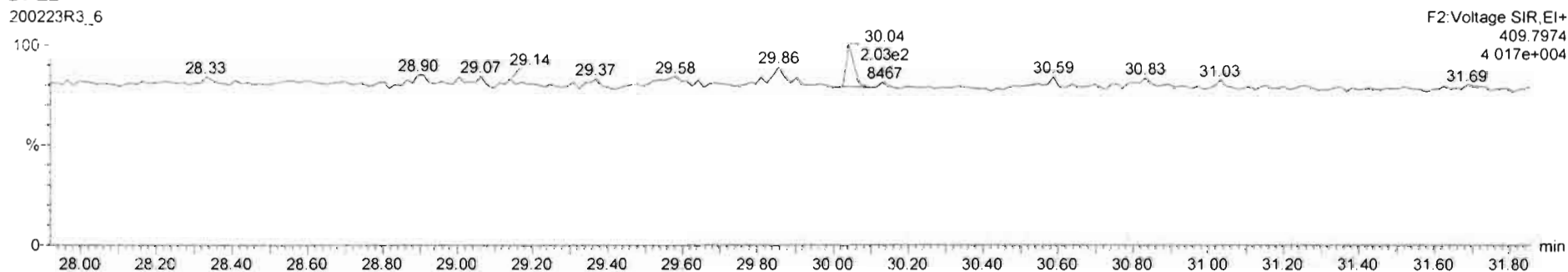
1,2,3,7,8-PeCDF



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



DPE2

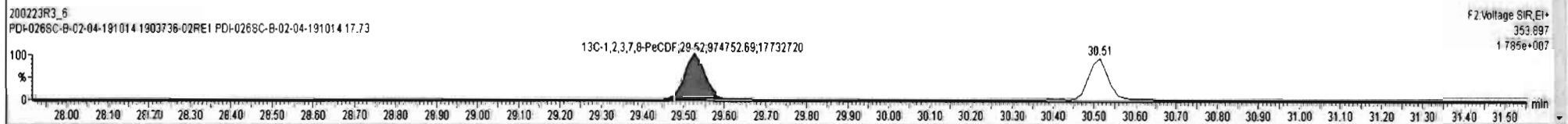
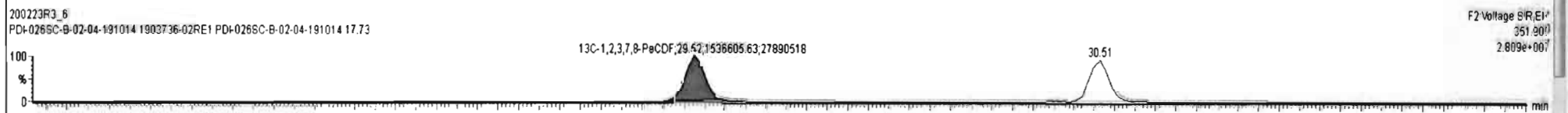
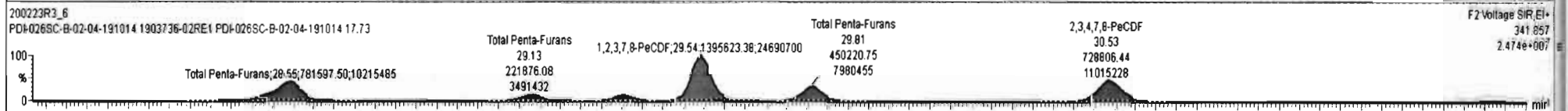
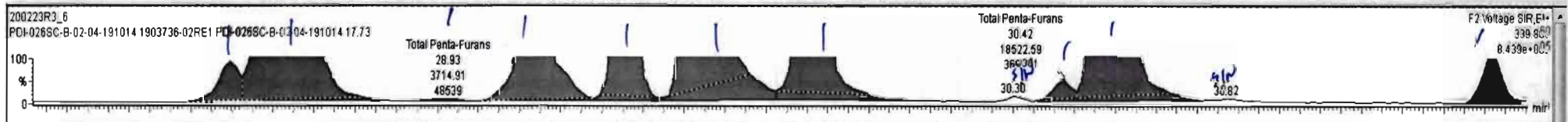


200223R3_6-1903736-02RE1 PDI-026SC-B-02-04-191014 17.73 PDI-026SC-B-02-04-191014

Save Modified Peaks

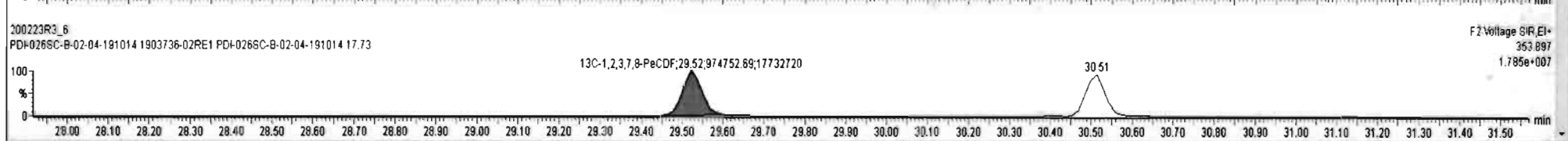
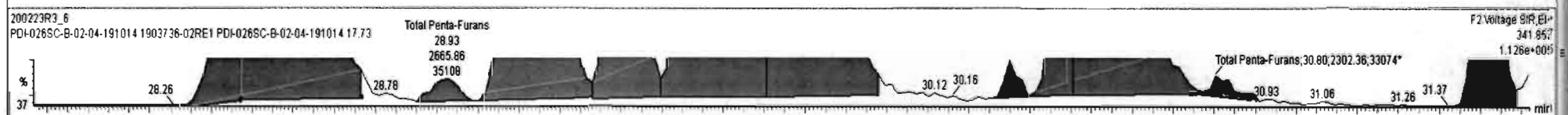
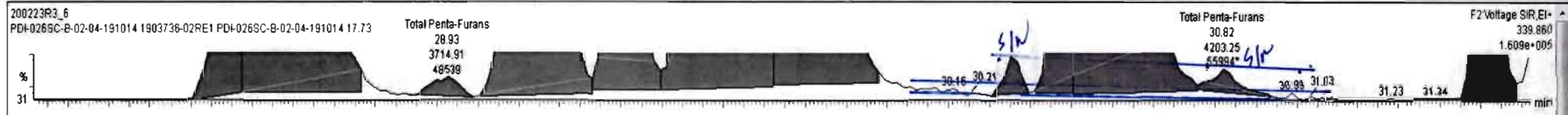
#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Res	DL	EMPC
45	Total Penta-Furans				0.8074	9.988	29.27		0.000		NO	864.1		0.211	864.1
46	Total Hexa-Furans				0.8982	9.986	33.56		0.000		NO	1251		0.378	1254
47	Total Hepta-Furans				0.8511	9.986	37.83		0.000		NO	1068		0.659	1070

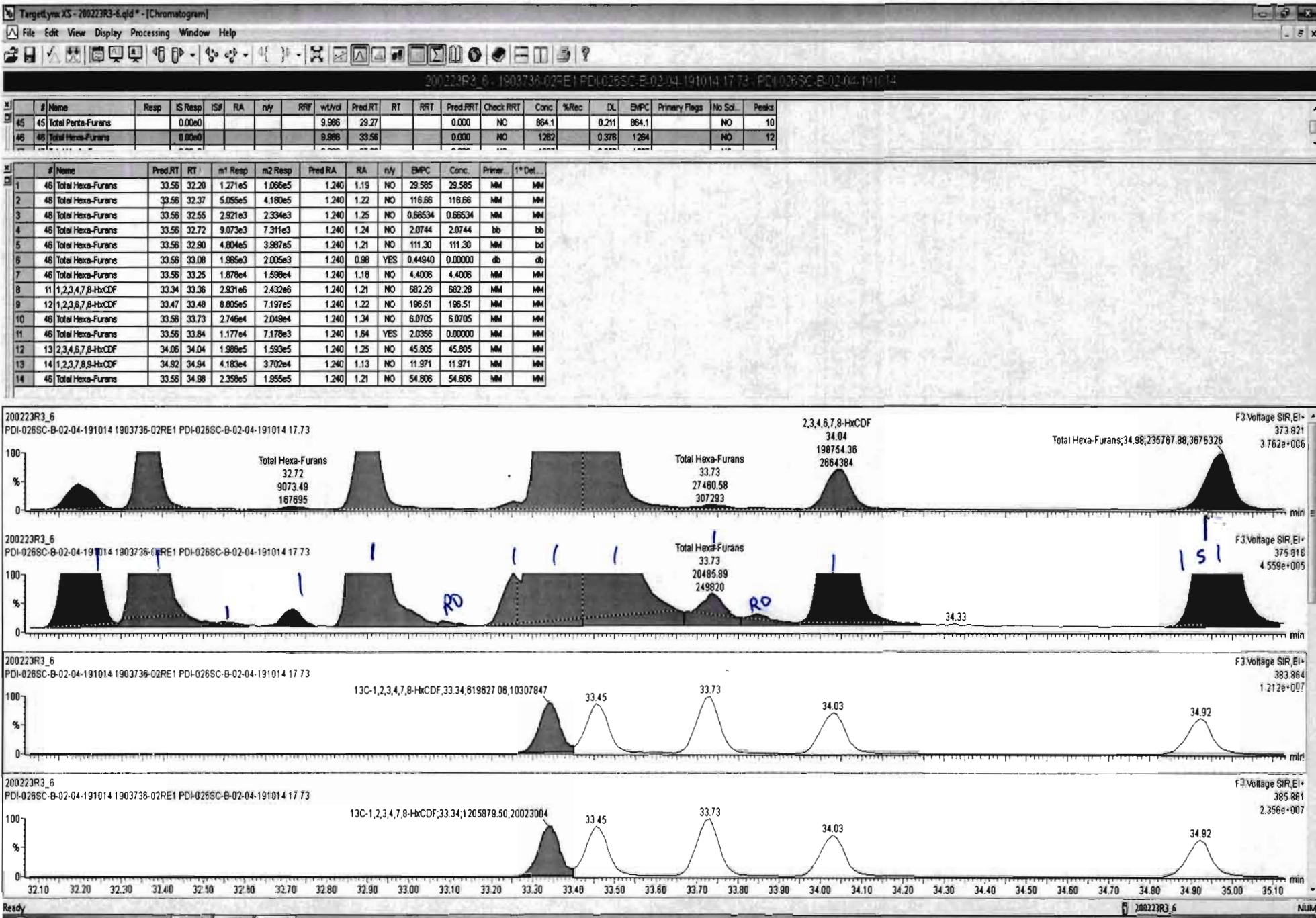
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	29.27	29.39	4.212e4	2.821e4	1.550	1.49	NO	6.3300	6.3300
2	Total Penta-Furans	29.27	29.55	1.210e6	7.816e5	1.550	1.55	NO	179.26	179.26
3	Total Penta-Furans	29.27	29.93	3.715e3	2.688e3	1.550	1.39	NO	0.57424	0.57424
4	Total Penta-Furans	29.27	29.13	3.469e5	2.219e5	1.550	1.56	NO	51.183	51.183
5	Total Penta-Furans	29.27	29.35	2.557e5	1.678e5	1.550	1.52	NO	38.115	38.115
6	1,2,3,7,8-PeCDF	29.54	29.54	2.199e6	1.396e6	1.550	1.55	NO	312.44	312.44
7	Total Penta-Furans	29.27	29.81	6.902e5	4.502e5	1.550	1.53	NO	102.63	102.63
8	Total Penta-Furans	29.27	30.42	1.852e4	1.168e4	1.550	1.59	NO	2.7182	2.7182
9	1,2,3,4,7,8-PeCDF	30.54	30.53	1.127e6	7.288e5	1.550	1.55	NO	163.12	163.12
10	Total Penta-Furans	29.27	31.46	5.158e4	3.386e4	1.550	1.52	NO	7.6896	7.6896



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Oxindins				0.9231	9.986	37.64		0.000		NO	1390		1.48	1390
43	Total Tetra-Furans				0.8020	9.986	23.61		0.000		NO	717.7		0.211	719.9
44	1st Func. Penta-Furans				0.9074	9.986	27.09		0.000		NO	51.79		0.0293	51.79

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.39	4.174e4	2.778e4	1.550	1.50	NO	6.2557	6.2557
2	45 Total Penta-Furans	29.27	28.55	1.199e6	7.733e5	1.550	1.55	NO	177.50	177.50
3	45 Total Penta-Furans	29.27	28.93	3.715e3	2.666e3	1.550	1.39	NO	0.57424	0.57424
4	45 Total Penta-Furans	29.27	29.13	3.414e5	2.160e5	1.550	1.58	NO	50.166	50.166
5	45 Total Penta-Furans	29.27	29.35	2.419e5	1.603e5	1.550	1.51	NO	36.201	36.201
6	9 1,2,3,7,8-PeCDF	29.54	29.54	2.088e6	1.359e6	1.550	1.54	NO	302.98	302.98
7	45 Total Penta-Furans	29.27	29.81	6.577e5	4.242e5	1.550	1.55	NO	97.361	97.361
8	45 Total Penta-Furans	29.27	30.30	4.116e3	2.266e3	1.550	1.82	YES	0.51994	0.00000
9	45 Total Penta-Furans	29.27	30.42	1.631e4	8.663e3	1.550	1.88	YES	1.9881	0.00000
10	10 2,3,4,7,8-PeCDF	30.54	30.53	1.102e6	7.178e5	1.550	1.54	NO	159.94	159.94
11	45 Total Penta-Furans	29.27	30.82	2.023e3	1.786e3	1.550	1.13	YES	0.28969	0.00000
12	45 Total Penta-Furans	29.27	31.46	5.158e4	3.385e4	1.550	1.52	NO	7.6896	7.6896



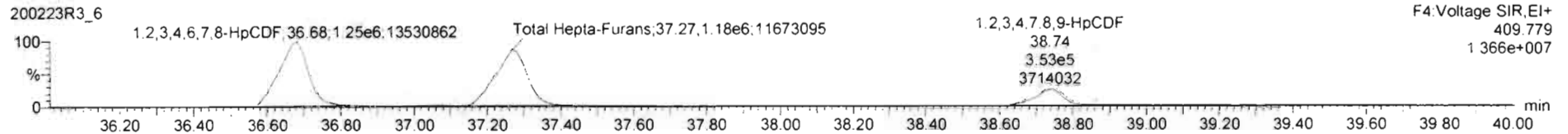
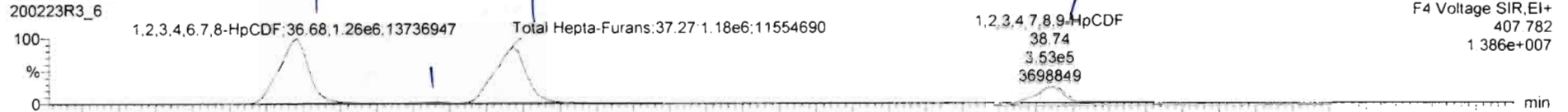


Dataset: Untitled

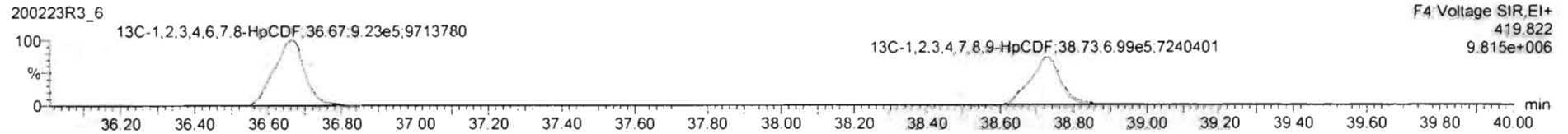
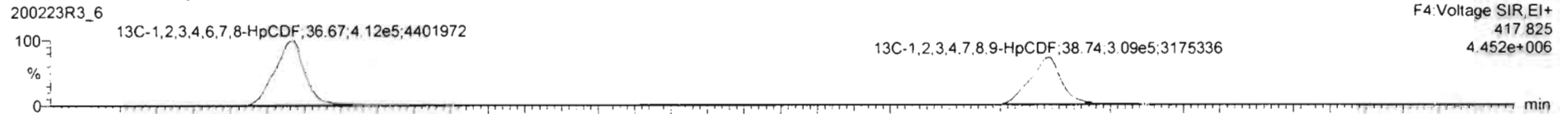
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

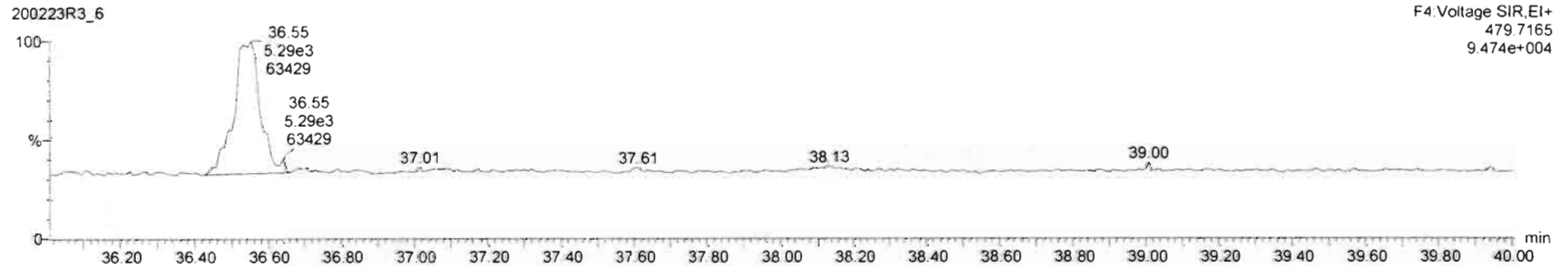
1,2,3,4,6,7,8-HpCDF



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

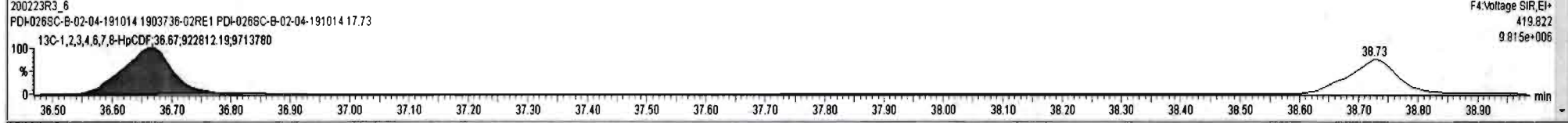
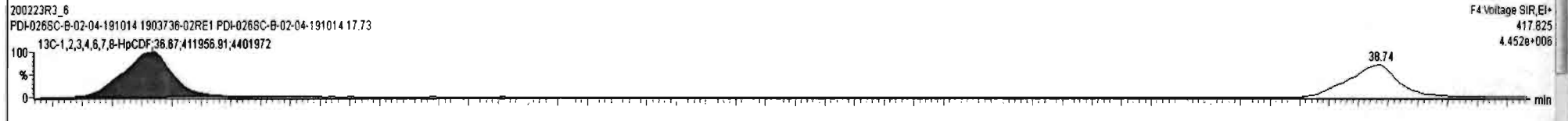
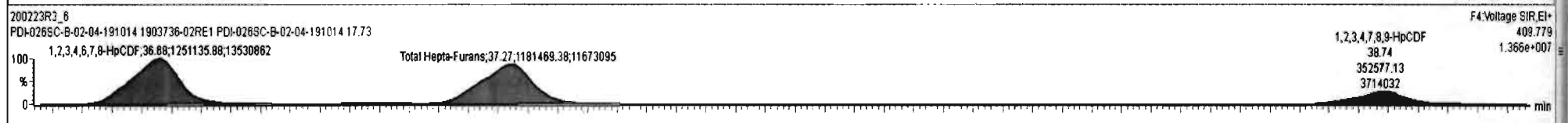


DPE4



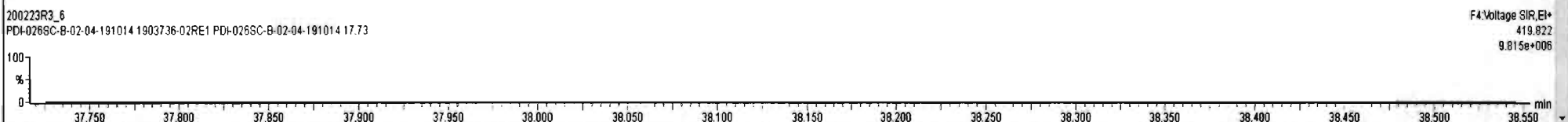
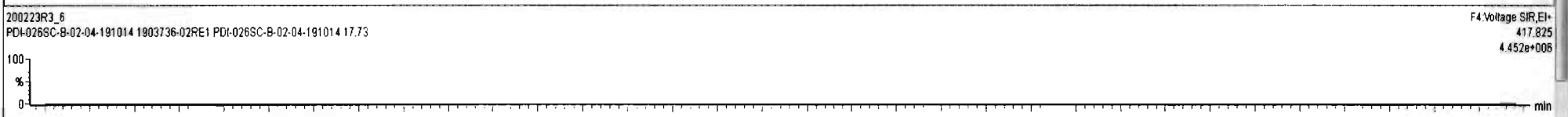
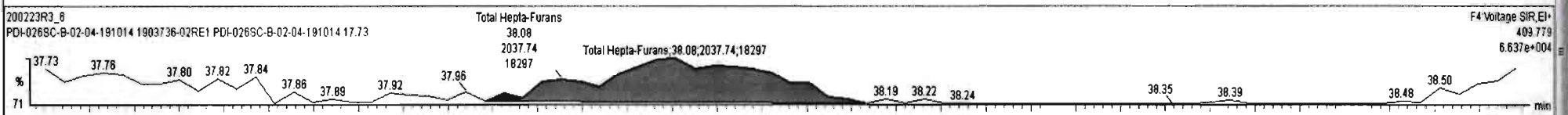
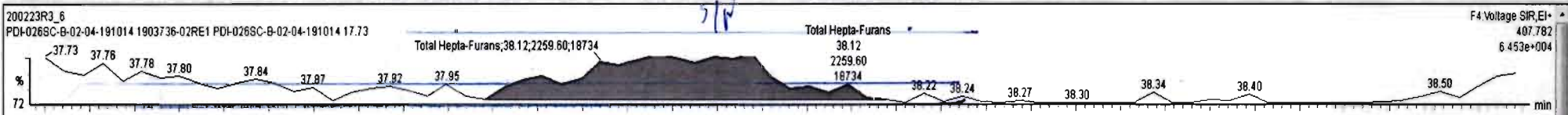
#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	9.986	29.27		0.000		NO	864.1		0.211	864.1
46	Total Hexa-Furans				0.8962	9.986	33.56		0.000		NO	1260		0.376	1268
47	Total Hepta-Furans				0.8511	9.986	37.83		0.000		NO	1067		0.659	1067

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.71	36.68	1.261e6	1.251e6	1.040	1.01	NO	442.95	442.95
2	Total Hepta-Furans	37.83	37.08	1.568e4	1.394e4	1.040	1.13	NO	5.9521	5.9521
3	Total Hepta-Furans	37.83	37.27	1.183e6	1.181e6	1.040	1.00	NO	475.15	475.15
4	1,2,3,4,7,8,9-HpCDF	38.74	38.74	3.530e5	3.526e5	1.040	1.00	NO	143.13	143.13



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	9.966	29.27		0.000		NO	664.1		0.211	664.1
46	Total Hexa-Furans				0.8982	9.966	33.56		0.000		NO	1260		0.378	1266
47	Total Hepta-Furans				0.8511	9.966	37.83		0.000		NO	1068		0.659	1070

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.71	36.68	1.261e6	1.251e6	1.040	1.01	NO	442.95	442.95
2	Total Hepta-Furans	37.83	37.06	1.568e4	1.394e4	1.040	1.13	NO	5.9521	5.9521
3	Total Hepta-Furans	37.83	37.27	1.183e6	1.181e6	1.040	1.00	NO	475.15	475.15
4	Total Hepta-Furans	37.83	38.12	2.260e3	2.038e3	1.040	1.11	NO	0.86352	0.86352
5	1,2,3,4,7,8,9-HpCDF	38.74	38.74	3.530e5	3.526e5	1.040	1.00	NO	143.13	143.13
6	Total Hepta-Furans	37.83	39.35	3.361e3	2.440e3	1.040	1.38	YES	1.0004	0.00000
7	Total Hepta-Furans	37.83	39.58	4.232e3	1.946e3	1.040	2.17	YES	0.79773	0.00000

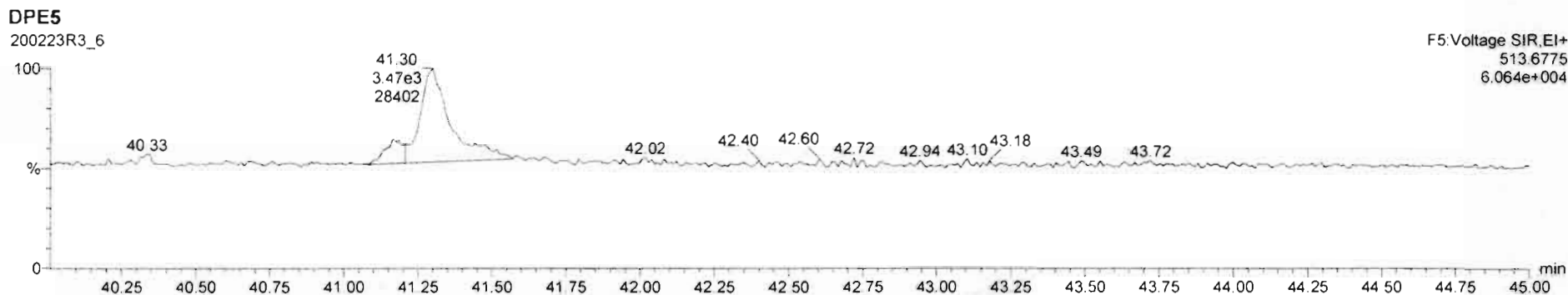
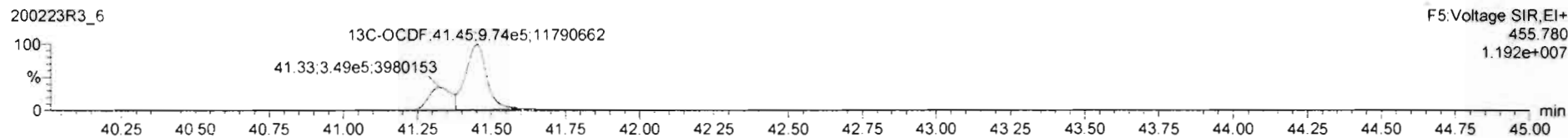
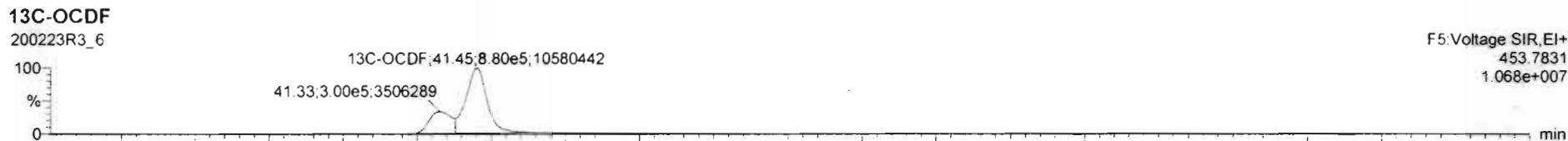
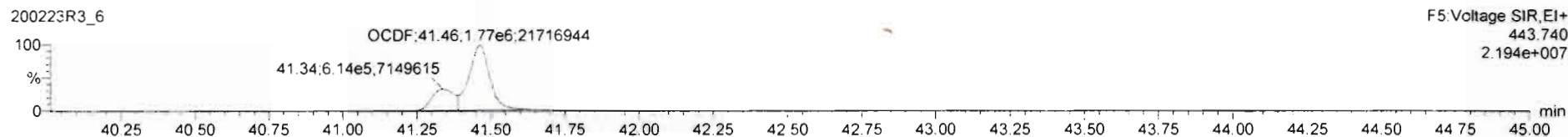
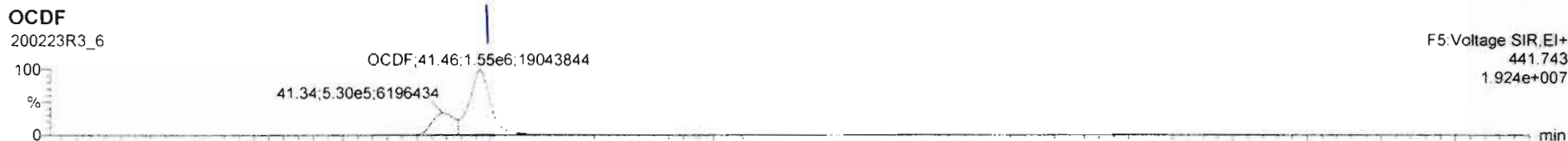


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

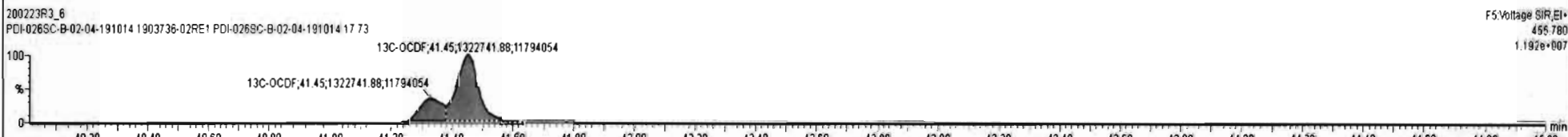
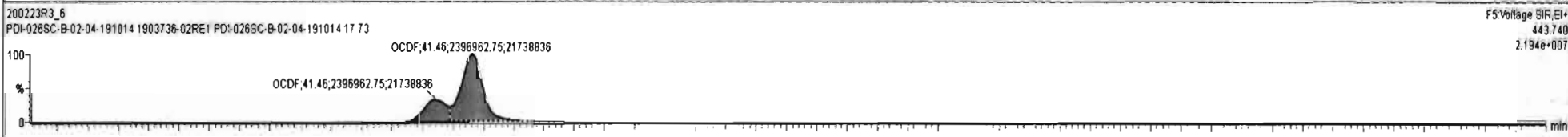
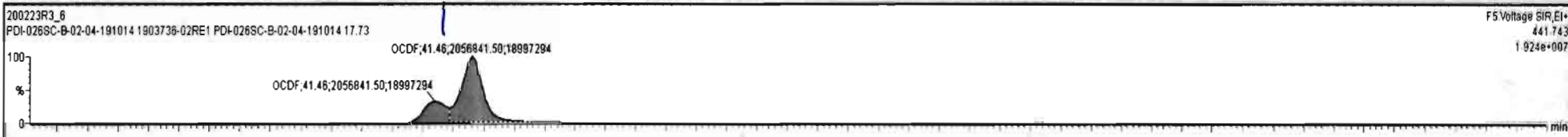
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014



#	Name	Resp	IS Resp	ISF	RA	n/y	RRF	w/wrd	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC	Primary Flags	No Sol.	Peak
17	OCDF	4.45e6	2.50e6	34	0.86	NO		9.966	41.45	41.45	1.000	1.000	NO	854.4	0.487	964.4		MM	NO	
18	13C-2,3,7,8-TCDD	2.19e6	2.36e6	36	0.77	NO		9.966	25.75	25.78	1.027	1.026	NO	155.2	77.5	0.112		bb	NO	

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

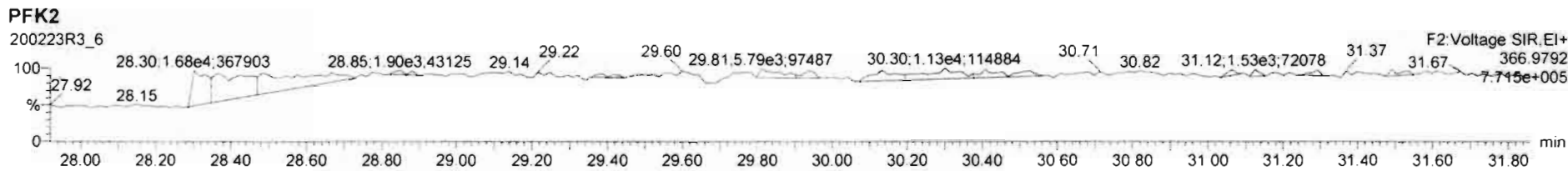
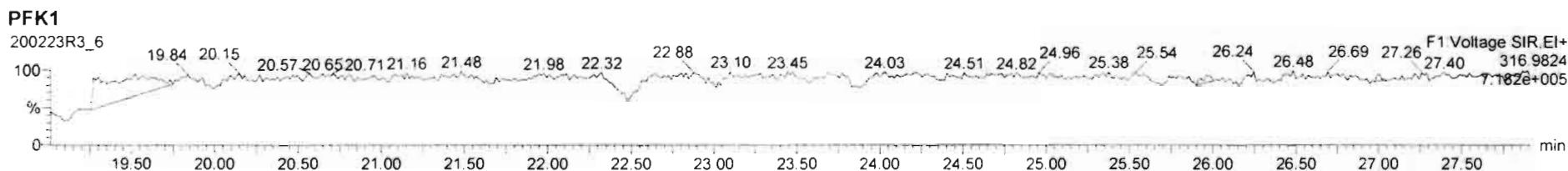


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_6, Date: 24-Feb-2020, Time: 07:32:41, ID: 1903736-02RE1 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014



Dataset: U:\VG12.PRO\Results\200224R1\200224R1-9.qld

Last Altered: Tuesday, February 25, 2020 09:34:23 Pacific Standard Time

Printed: Tuesday, March 17, 2020 16:40:06 Pacific Daylight Time

Jy 03-17-2020

M 3/21/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

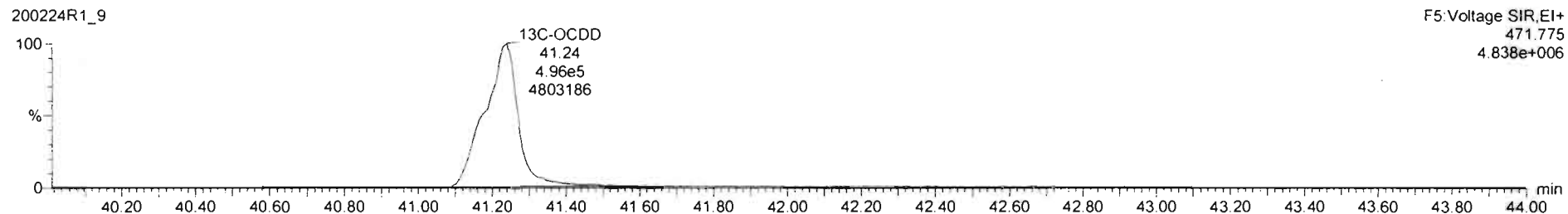
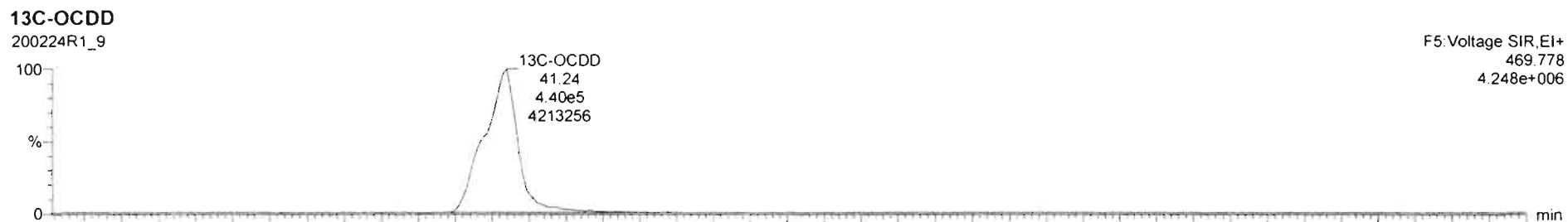
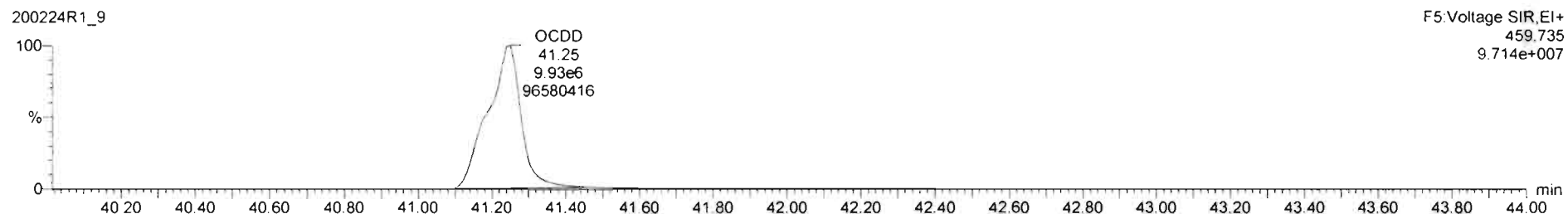
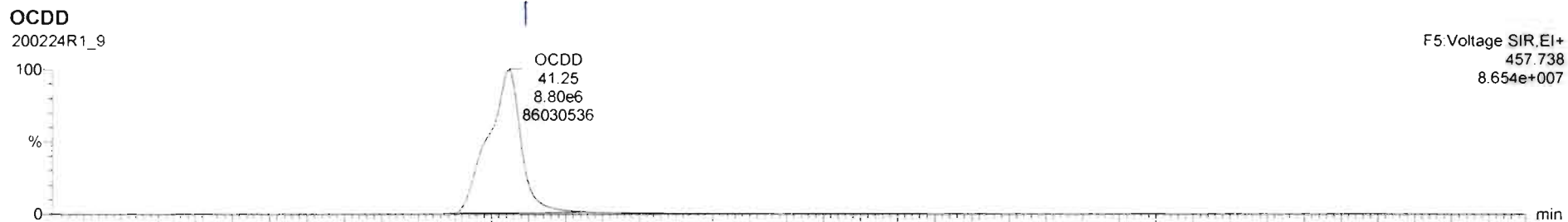
Name: 200224R1_9, Date: 24-Feb-2020, Time: 23:21:39, ID: 1903736-02RE1@2X PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

#	Name	Area	IS Area	RA	n/y	WL/Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	1.87e7	9.36e5	0.886	NO	9.99	41.24	41.25	1.00	1.00	NO	8219.6		1.394	8219.6
2	17 OCDF	1.79e6	1.02e6	0.879	NO	9.99	41.41	41.42	1.00	1.00	NO	877.26		0.750	877.26
3	24 13C-OCDD	9.36e5	9.51e5	0.888	NO	9.99	41.10	41.24	1.22	1.22	NO	279.18	69.7	0.356	
4	34 13C-OCDF	1.02e6	9.51e5	0.910	NO	9.99	41.33	41.41	1.23	1.23	NO	271.47	67.8	0.294	
5	38 13C-1,2,3,4,6,9-HxCDF	9.51e5	9.51e5	0.510	NO	9.99	33.71	33.74	1.00	1.00	NO	200.28	100.0	0.570	

Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_9, Date: 24-Feb-2020, Time: 23:21:39, ID: 1903736-02RE1@2X PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014



Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

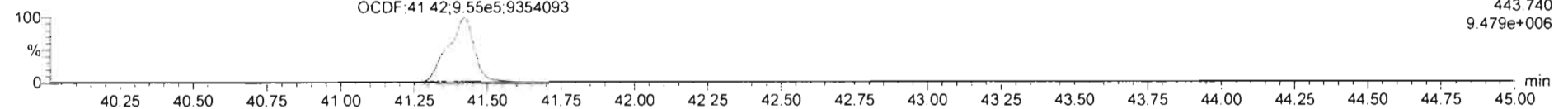
Name: 200224R1_9, Date: 24-Feb-2020, Time: 23:21:39, ID: 1903736-02RE1@2X PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

OCDF

200224R1_9

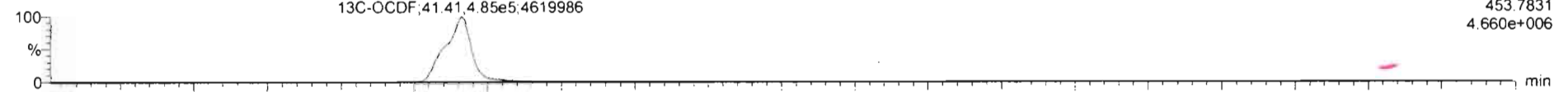


200224R1_9

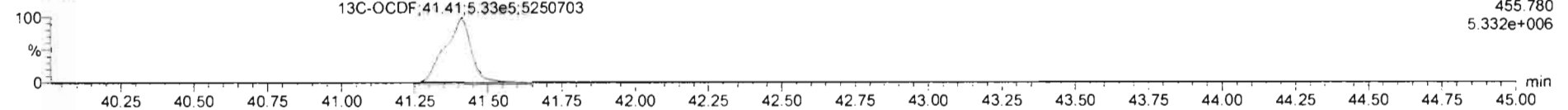


13C-OCDF

200224R1_9

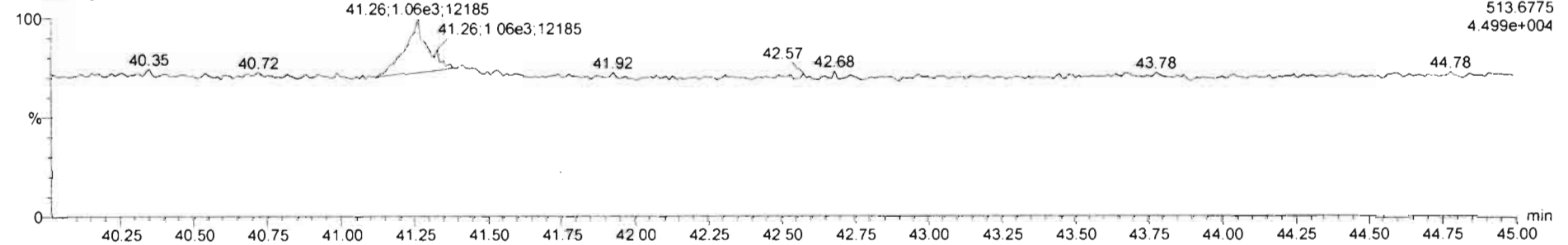


200224R1_9



DPE5

200224R1_9



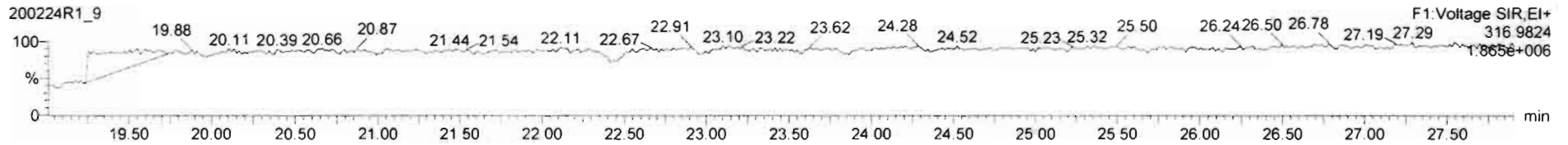
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

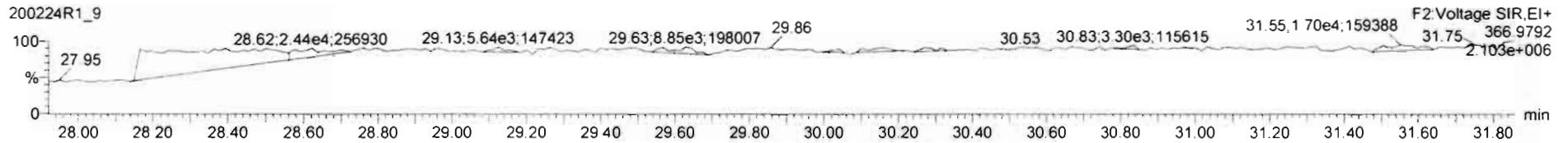
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_9, Date: 24-Feb-2020, Time: 23:21:39, ID: 1903736-02RE1@2X PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

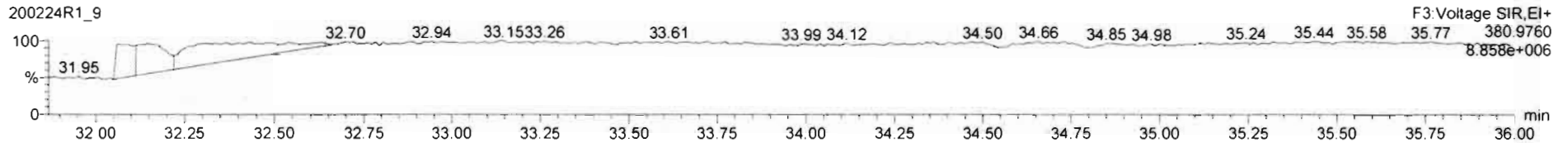
PFK1



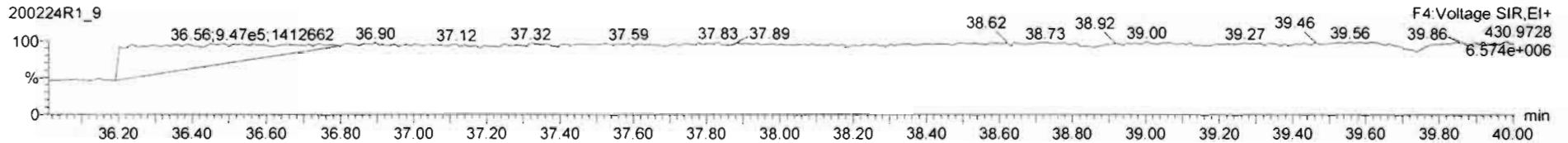
PFK2



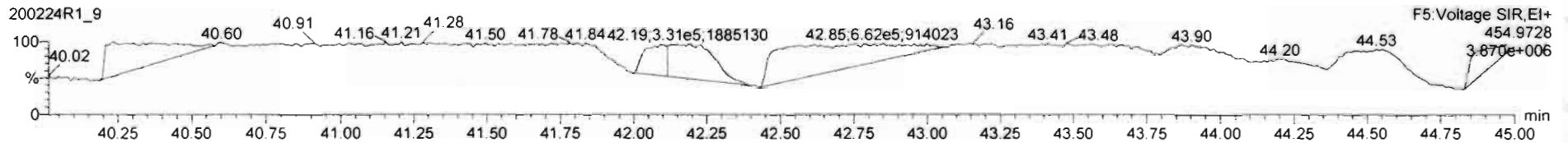
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200224R1\200224R1-6.qld

Last Altered: Thursday, March 12, 2020 15:44:21 Pacific Daylight Time

Printed: Thursday, March 12, 2020 16:23:21 Pacific Daylight Time

dy 03-12-2020

du 3/17/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

#	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	2119.405	0.301	YES	0.988	10.147	25.75	25.77	1.00	1.00	NO	0.2030		0.0556	0.1084
2	2 1,2,3,7,8-PeCDD	951.882	1.115	YES	0.972	10.147	30.84	30.83	1.00	1.00	NO	0.1100	<i>3/17/20</i>	0.0636	0.09193
3	3 1,2,3,4,7,8-HxCDD	722.728	1.279	NO	1.07	10.147	34.20	34.18	1.00	1.00	NO	0.1049		0.116	0.1049
4	4 1,2,3,6,7,8-HxCDD	5649.035	1.230	NO	0.921	10.147	34.30	34.31	1.00	1.00	NO	0.8319		0.124	0.8319
5	5 1,2,3,7,8,9-HxCDD	3434.593	1.244	NO	0.918	10.147	34.60	34.58	1.00	1.00	NO	0.5444		0.137	0.5444
6	6 1,2,3,4,6,7,8-HpCDD	160345.258	1.023	NO	0.923	10.147	38.07	38.07	1.00	1.00	NO	31.67		0.321	31.67
7	7 OCDD	639155.531	0.881	NO	0.975	10.147	41.15	41.17	1.00	1.00	NO	163.9		0.352	163.9
8	8 2,3,7,8-TCDF	6465.974	0.759	NO	0.802	10.147	24.80	24.81	1.00	1.00	NO	0.6197		0.0600	0.6197
9	9 1,2,3,7,8-PeCDF	12373.240	1.713	NO	0.907	10.147	29.53	29.52	1.00	1.00	NO	1.202		0.0453	1.202
10	10 2,3,4,7,8-PeCDF	6204.608	1.441	NO	0.952	10.147	30.53	30.51	1.00	1.00	NO	0.6082		0.0428	0.6082
11	11 1,2,3,4,7,8-HxCDF	46161.729	1.227	NO	0.862	10.147	33.34	33.35	1.00	1.00	NO	6.791		0.0626	6.791
12	12 1,2,3,6,7,8-HxCDF	9187.121	1.131	NO	0.841	10.147	33.47	33.47	1.00	1.00	NO	1.261		0.0624	1.261
13	13 2,3,4,6,7,8-HxCDF	2335.260	1.157	NO	0.898	10.147	34.05	34.02	1.00	1.00	NO	0.3243		0.0646	0.3243
14	14 1,2,3,7,8,9-HxCDF	603.400	1.083	NO	0.858	10.147	34.90	34.91	1.00	1.00	NO	0.1021		0.0916	0.1021
15	15 1,2,3,4,6,7,8-HpCDF	15943.760	0.956	NO	0.851	10.147	36.68	36.66	1.00	1.00	NO	3.394		0.0998	3.394
16	16 1,2,3,4,7,8,9-HpCDF	5417.388	1.058	NO	0.980	10.147	38.71	38.72	1.00	1.00	NO	1.359		0.125	1.359
17	17 OCDF	18347.219	0.847	NO	0.806	10.147	41.34	41.36	1.00	1.00	NO	5.531		0.155	5.531
18	18 13C-2,3,7,8-TCDD	2074738.8...	0.782	NO	1.20	10.147	25.69	25.72	1.03	1.03	NO	154.9	78.6	0.104	
19	19 13C-1,2,3,7,8-PeCDD	1617710.0...	0.627	NO	0.967	10.147	30.43	30.82	1.22	1.23	NO	149.8	76.0	0.133	
20	20 13C-1,2,3,4,7,8-HxCDD	1268169.6...	1.270	NO	0.874	10.147	34.19	34.19	1.01	1.01	NO	139.9	71.0	0.232	
21	21 13C-1,2,3,6,7,8-HxCDD	1453088.5...	1.258	NO	1.05	10.147	34.29	34.30	1.02	1.02	NO	133.9	68.0	0.194	
22	22 13C-1,2,3,7,8,9-HxCDD	1354324.4...	1.245	NO	0.974	10.147	34.60	34.56	1.03	1.02	NO	134.0	68.0	0.208	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1081263.0...	1.052	NO	0.747	10.147	38.17	38.06	1.13	1.13	NO	139.5	70.8	0.297	
24	24 13C-OCDD	1577492.6...	0.893	NO	0.707	10.147	41.07	41.15	1.22	1.22	NO	215.2	54.6	0.260	
25	25 13C-2,3,7,8-TCDF	2564216.0...	0.789	NO	1.07	10.147	24.87	24.78	0.99	0.99	NO	149.8	76.0	0.198	
26	26 13C-1,2,3,7,8-PeCDF	2235915.2...	1.552	NO	1.00	10.147	29.46	29.51	1.18	1.18	NO	138.9	70.5	0.237	
27	27 13C-2,3,4,7,8-PeCDF	2113063.9...	1.590	NO	0.962	10.147	30.42	30.50	1.21	1.22	NO	136.7	69.4	0.247	
28	28 13C-1,2,3,4,7,8-HxCDF	1553813.3...	0.511	NO	1.05	10.147	33.32	33.34	0.99	0.99	NO	142.8	72.4	0.259	
29	29 13C-1,2,3,6,7,8-HxCDF	1706401.5...	0.517	NO	1.19	10.147	33.42	33.46	0.99	0.99	NO	138.2	70.1	0.228	
30	30 13C-2,3,4,6,7,8-HxCDF	1580251.6...	0.517	NO	1.07	10.147	34.03	34.02	1.01	1.01	NO	142.9	72.5	0.255	
31	31 13C-1,2,3,7,8,9-HxCDF	1358082.7...	0.509	NO	0.922	10.147	34.93	34.90	1.04	1.04	NO	141.9	72.0	0.295	

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-6.qld

Last Altered: Thursday, March 12, 2020 15:44:21 Pacific Daylight Time

Printed: Thursday, March 12, 2020 16:23:21 Pacific Daylight Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

	# 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	1087789.7...	0.439	NO	0.767	10.147	36.69	36.64	1.09	1.09	NO	136.7	69.3	0.295	
33	33 13C-1,2,3,4,7,8,9-HpCDF	802072.032	0.451	NO	0.552	10.147	38.71	38.71	1.15	1.15	NO	140.0	71.0	0.409	
34	34 13C-OCDF	1623249.5...	0.875	NO	0.789	10.147	41.31	41.34	1.23	1.23	NO	198.2	50.3	0.178	
35	35 37Cl-2,3,7,8-TCDD	782772.188			1.18	10.147	25.72	25.74	1.03	1.03	NO	59.55	75.5	0.0304	
36	36 13C-1,2,3,4-TCDD	2202552.8...	0.785	NO	1.00	10.147	25.11	25.05	1.00	1.00	NO	197.1	100	0.124	
37	37 13C-1,2,3,4-TCDF	3167383.6...	0.785	NO	1.00	10.147	23.37	23.28	1.00	1.00	NO	197.1	100	0.210	
38	38 13C-1,2,3,4,6,9-HxCDF	2044626.6...	0.511	NO	1.00	10.147	33.71	33.72	1.00	1.00	NO	197.1	100	0.272	
39	39 Total Tetra-Dioxins				0.988	10.147	24.62		0.00		NO	1.695		0.0555	1.803
40	40 Total Penta-Dioxins				0.972	10.147	29.96		0.00		NO	1.418		0.0635	1.851
41	41 Total Hexa-Dioxins				0.921	10.147	33.63		0.00		NO	11.71		0.132	11.71
42	42 Total Hepta-Dioxins				0.923	10.147	37.64		0.00		NO	61.26		0.321	61.26
43	43 Total Tetra-Furans				0.802	10.147	23.61		0.00		NO	2.035		0.0600	2.775
44	44 1st Func. Penta-Furans				0.907	10.147	27.09		0.00		NO	0.6719		0.0246	0.6719
45	45 Total Penta-Furans				0.907	10.147	29.27		0.00		NO	3.283		0.0451	3.283
46	46 Total Hexa-Furans				0.898	10.147	33.56		0.00		NO	10.70		0.0668	10.90
47	47 Total Hepta-Furans				0.851	10.147	37.83		0.00		NO	8.162		0.119	8.162

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-6.qld

Last Altered: Thursday, March 12, 2020 15:44:21 Pacific Daylight Time

Printed: Thursday, March 12, 2020 16:23:46 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	1.19e3	2.07e6	0.867	NO	24.62	26.72	0.1146	0.1146
2	1 2,3,7,8-TCDD	2.12e3	2.07e6	0.301	YES	25.75	25.77	0.0000	0.1084
3	39 Total Tetra-Dioxins	3.00e3	2.07e6	0.880	NO	24.62	25.02	0.2889	0.2889
4	39 Total Tetra-Dioxins	1.03e4	2.07e6	0.791	NO	24.62	23.46	0.9894	0.9894
5	39 Total Tetra-Dioxins	1.54e3	2.07e6	0.773	NO	24.62	22.52	0.1481	0.1481
6	39 Total Tetra-Dioxins	1.60e3	2.07e6	0.849	NO	24.62	21.60	0.1539	0.1539

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.62e6	0.897	YES	29.96	31.20	0.0000	0.04874
2	2 1,2,3,7,8-PeCDD	9.52e2	1.62e6	1.115	YES	30.84	30.83	0.0000	0.09193
3	40 Total Penta-Dioxins	2.11e3	1.62e6	0.714	NO	29.96	30.04	0.2646	0.2646
4	40 Total Penta-Dioxins	9.18e2	1.62e6	0.616	NO	29.96	29.83	0.1150	0.1150
5	40 Total Penta-Dioxins	0.00e0	1.62e6	0.945	YES	29.96	29.75	0.0000	0.08043
6	40 Total Penta-Dioxins	0.00e0	1.62e6	0.815	YES	29.96	29.57	0.0000	0.2116
7	40 Total Penta-Dioxins	2.57e3	1.62e6	0.612	NO	29.96	29.07	0.3220	0.3220
8	40 Total Penta-Dioxins	5.72e3	1.62e6	0.590	NO	29.96	28.58	0.7168	0.7168

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	2.73e4	0.00e0	1.237	NO	33.63	33.54	4.300	4.300
2	41 Total Hexa-Dioxins	6.32e3	0.00e0	1.134	NO	33.63	33.28	0.9948	0.9948
3	41 Total Hexa-Dioxins	3.04e4	0.00e0	1.211	NO	33.63	32.73	4.790	4.790
4	5 1,2,3,7,8,9-HxCDD	3.43e3	1.35e6	1.244	NO	34.60	34.58	0.5444	0.5444
5	41 Total Hexa-Dioxins	9.07e2	0.00e0	1.294	NO	33.63	34.50	0.1428	0.1428
6	4 1,2,3,6,7,8-HxCDD	5.65e3	1.45e6	1.230	NO	34.30	34.31	0.8319	0.8319
7	3 1,2,3,4,7,8-HxCDD	7.23e2	1.27e6	1.279	NO	34.20	34.18	0.1049	0.1049

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-6.qld

Last Altered: Thursday, March 12, 2020 15:44:21 Pacific Daylight Time

Printed: Thursday, March 12, 2020 16:23:46 Pacific Daylight Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	1.60e5	1.08e6	1.023	NO	38.07	38.07	31.67	31.67
2	42 Total Hepta-Dioxins	1.50e5	1.08e6	1.031	NO	37.64	37.04	29.59	29.59

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	5.80e3	2.56e6	0.789	NO	23.61	20.65	0.5555	0.5555
2	43 Total Tetra-Furans	9.57e2	2.56e6	0.664	NO	23.61	20.09	0.09173	0.09173
3	43 Total Tetra-Furans	0.00e0	2.56e6	1.229	YES	23.61	26.89	0.0000	0.08704
4	8 2,3,7,8-TCDF	6.47e3	2.56e6	0.759	NO	24.80	24.81	0.6197	0.6197
5	43 Total Tetra-Furans	1.50e3	2.56e6	0.789	NO	23.61	24.67	0.1436	0.1436
6	43 Total Tetra-Furans	0.00e0	2.56e6	0.654	YES	23.61	23.82	0.0000	0.5371
7	43 Total Tetra-Furans	2.27e3	2.56e6	0.757	NO	23.61	23.27	0.2172	0.2172
8	43 Total Tetra-Furans	0.00e0	2.56e6	0.889	YES	23.61	23.18	0.0000	0.1161
9	43 Total Tetra-Furans	1.43e3	2.56e6	0.732	NO	23.61	22.02	0.1370	0.1370
10	43 Total Tetra-Furans	2.82e3	2.56e6	0.685	NO	23.61	21.54	0.2699	0.2699

Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	6.73e3	0.00e0	1.644	NO	27.09	26.89	0.6719	0.6719

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	2.66e3	0.00e0	1.486	NO	29.27	29.11	0.2655	0.2655
2	45 Total Penta-Furans	7.18e3	0.00e0	1.531	NO	29.27	28.52	0.7172	0.7172
3	10 2,3,4,7,8-PeCDF	6.20e3	2.11e6	1.441	NO	30.53	30.51	0.6082	0.6082
4	45 Total Penta-Furans	3.78e3	0.00e0	1.474	NO	29.27	29.80	0.3776	0.3776
5	9 1,2,3,7,8-PeCDF	1.24e4	2.24e6	1.713	NO	29.53	29.52	1.202	1.202
6	45 Total Penta-Furans	1.13e3	0.00e0	1.333	NO	29.27	29.34	0.1127	0.1127

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-6.qld

Last Altered: Thursday, March 12, 2020 15:44:21 Pacific Daylight Time

Printed: Thursday, March 12, 2020 16:23:46 Pacific Daylight Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	0.00e0	0.00e0	1.597	YES	33.56	32.18	0.0000	0.1992
2	14 1,2,3,7,8,9-HxCDF	6.03e2	1.36e6	1.083	NO	34.90	34.91	0.1021	0.1021
3	13 2,3,4,6,7,8-HxCDF	2.34e3	1.58e6	1.157	NO	34.05	34.02	0.3243	0.3243
4	12 1,2,3,6,7,8-HxCDF	9.19e3	1.71e6	1.131	NO	33.47	33.47	1.261	1.261
5	11 1,2,3,4,7,8-HxCDF	4.62e4	1.55e6	1.227	NO	33.34	33.35	6.791	6.791
6	46 Total Hexa-Furans	5.92e3	0.00e0	1.136	NO	33.56	32.90	0.8388	0.8388
7	46 Total Hexa-Furans	5.73e3	0.00e0	1.281	NO	33.56	32.35	0.8111	0.8111
8	46 Total Hexa-Furans	4.06e3	0.00e0	1.066	NO	33.56	34.95	0.5754	0.5754

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	5.42e3	8.02e5	1.058	NO	38.71	38.72	1.359	1.359
2	47 Total Hepta-Furans	1.39e4	0.00e0	0.950	NO	37.83	37.24	3.409	3.409
3	15 1,2,3,4,6,7,8-HpCDF	1.59e4	1.09e6	0.956	NO	36.68	36.66	3.394	3.394

Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

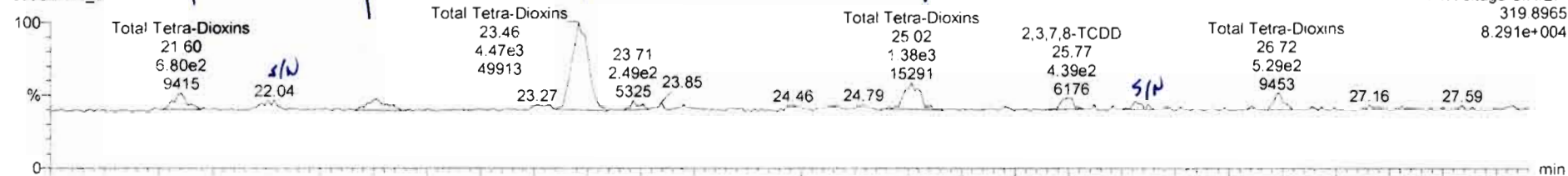
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

dy 03-02-2020

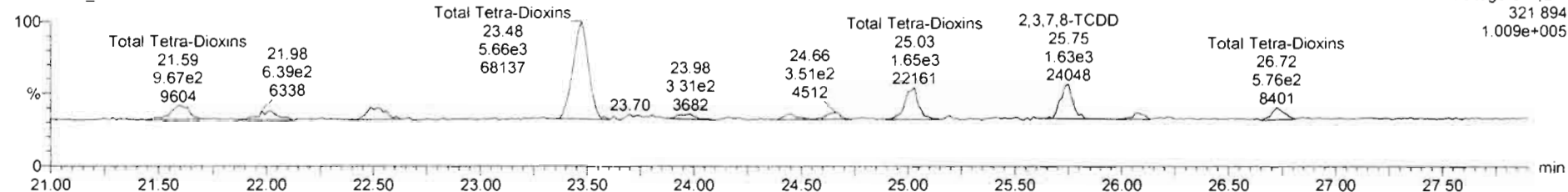
Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

2,3,7,8-TCDD

200224R1_6

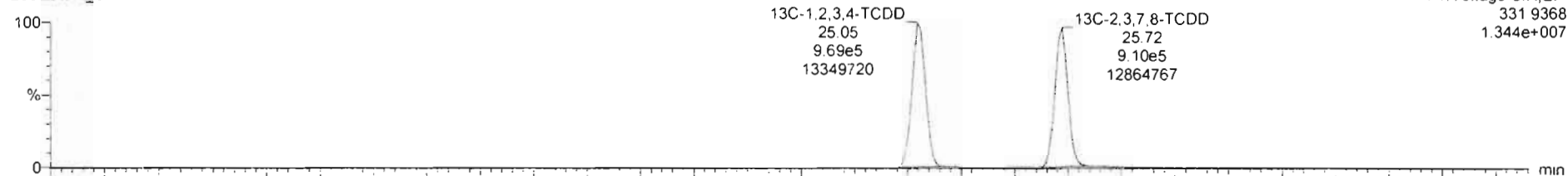


200224R1_6

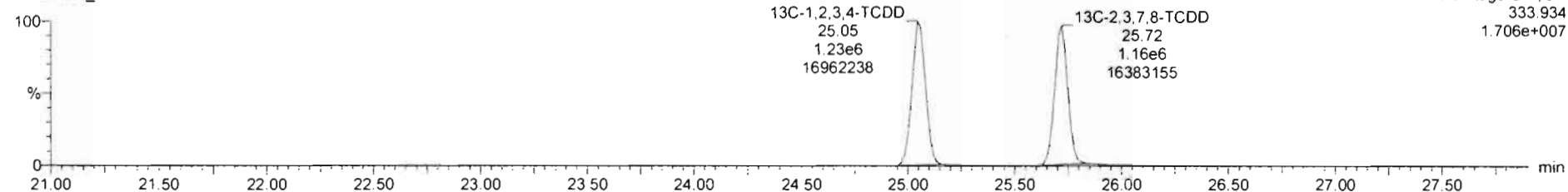


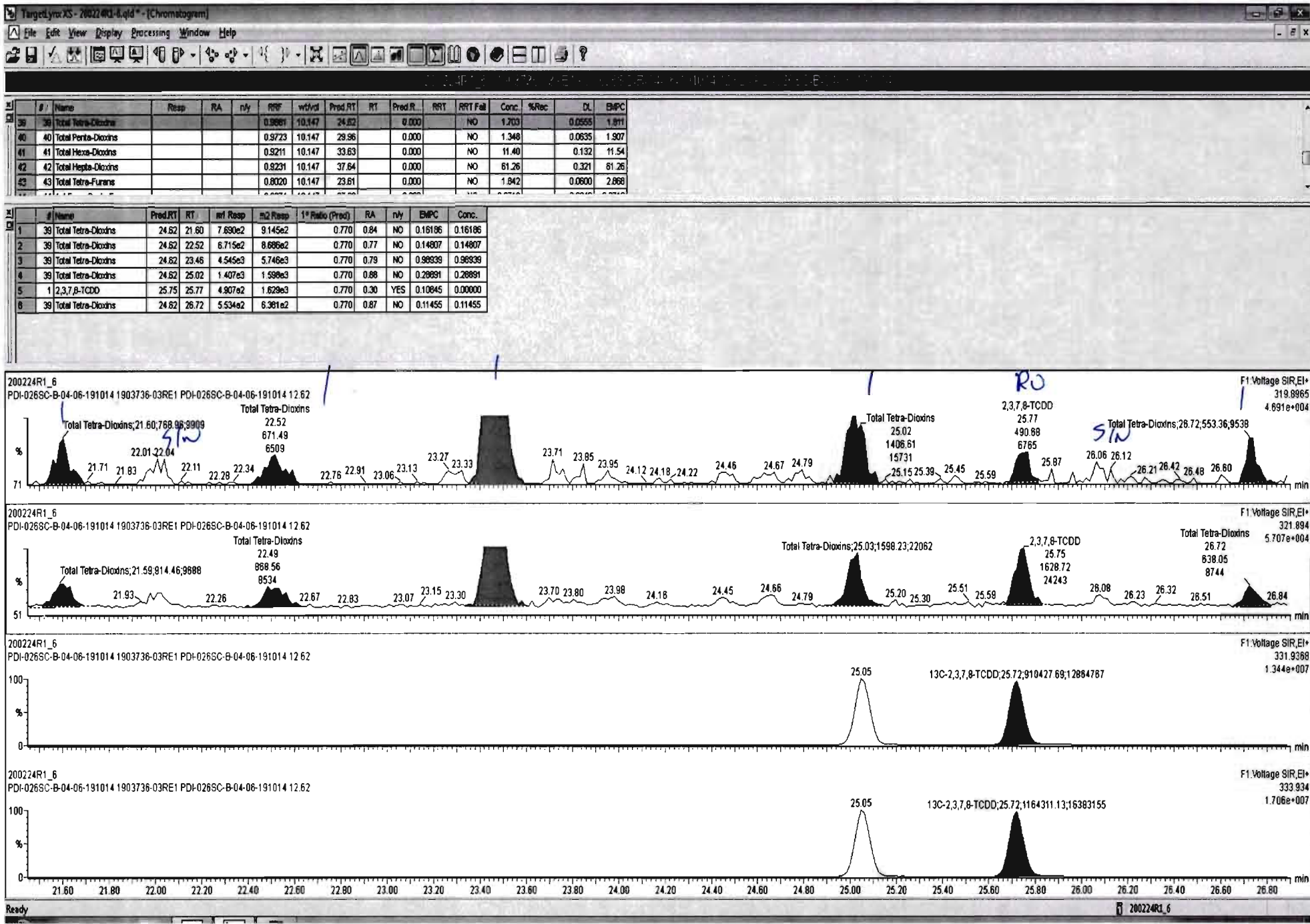
13C-2,3,7,8-TCDD

200224R1_6



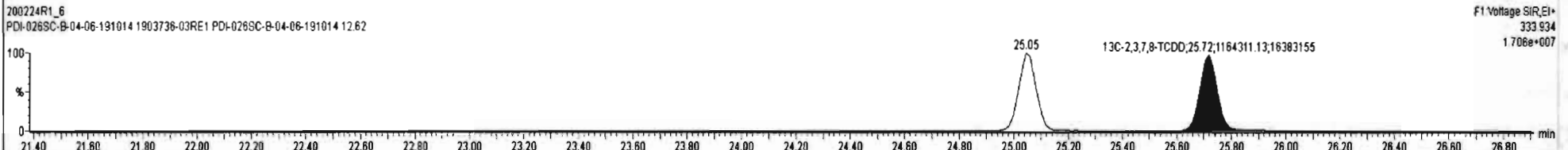
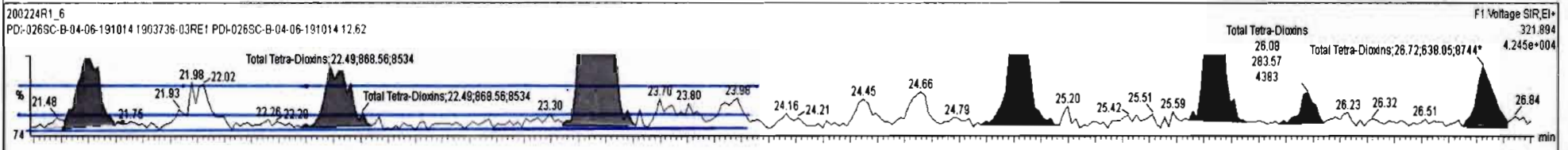
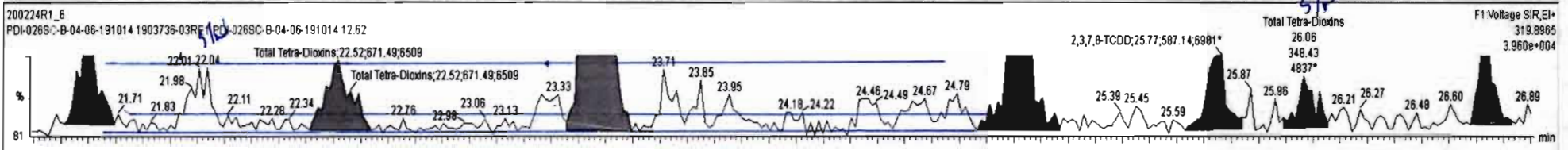
200224R1_6





#	Name	Resp	RA	n/y	R/R	w/vol	Prod_RT	RT	Pred.R...	R/R	R/R	Fail	Conc.	%Rec	DL	EMPC
38	Total Tetra-Dioxins				0.9881	10.147	24.62		0.000			NO	1.572		0.0555	1.815
40	Total Penta-Dioxins				0.9723	10.147	28.96		0.000			NO	1.348		0.0535	1.907
41	Total Hexa-Dioxins				0.9211	10.147	33.63		0.000			NO	11.40		0.132	11.54
42	Total Hepta-Dioxins				0.9231	10.147	37.64		0.000			NO	61.26		0.321	61.26
43	Total Tetra-Furans				0.8020	10.147	23.61		0.000			NO	1.842		0.0600	2.888

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	24.62	21.60	6.804e2	9.665e2	0.770	0.70	NO	0.15800	0.15835
2	Total Tetra-Dioxins	24.62	22.52	8.715e2	8.986e2	0.770	0.77	NO	0.14800	0.14807
3	Total Tetra-Dioxins	24.62	23.46	4.468e3	5.662e3	0.770	0.79	NO	0.97400	0.97400
4	Total Tetra-Dioxins	24.62	25.02	1.380e3	1.651e3	0.770	0.84	NO	0.29100	0.29140
5	2,3,7,8-TCDD	25.75	25.78	4.393e2	1.627e3	0.770	0.27	YES	0.087000	0.00000
6	Total Tetra-Dioxins	24.62	26.07	2.571e2	2.836e2	0.770	0.91	YES	0.048000	0.00000
7	Total Tetra-Dioxins	24.62	26.72	5.286e2	5.760e2	0.770	0.92	YES	0.098000	0.00000



Dataset: Untitled

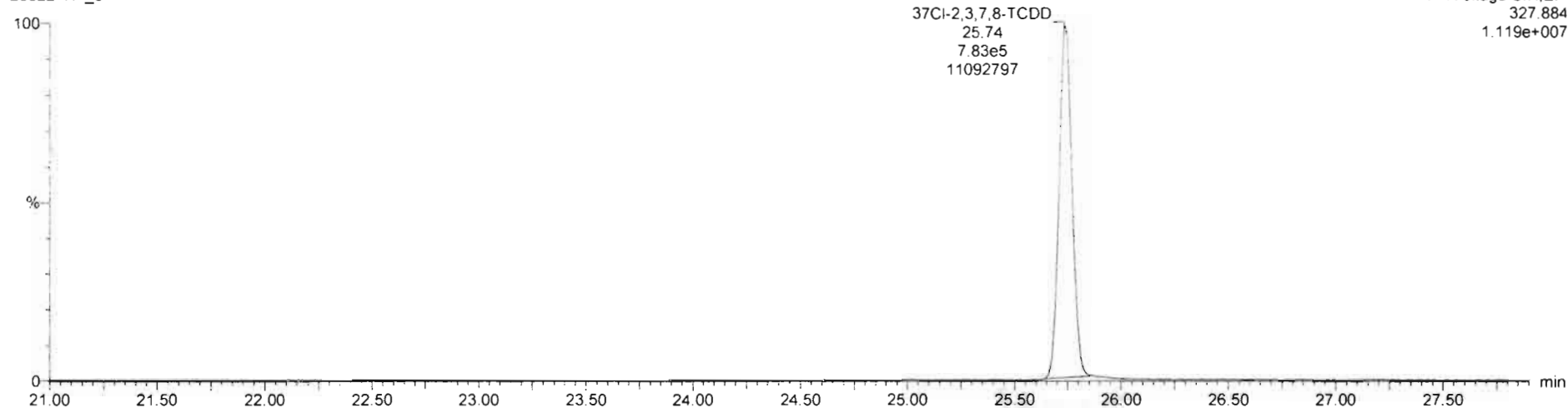
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

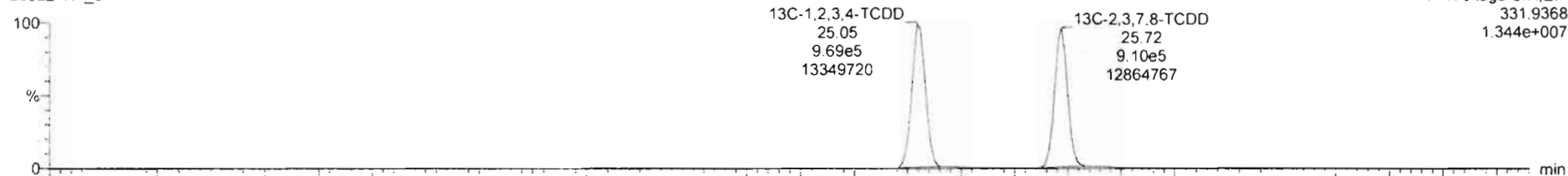
37Cl-2,3,7,8-TCDD

200224R1_6

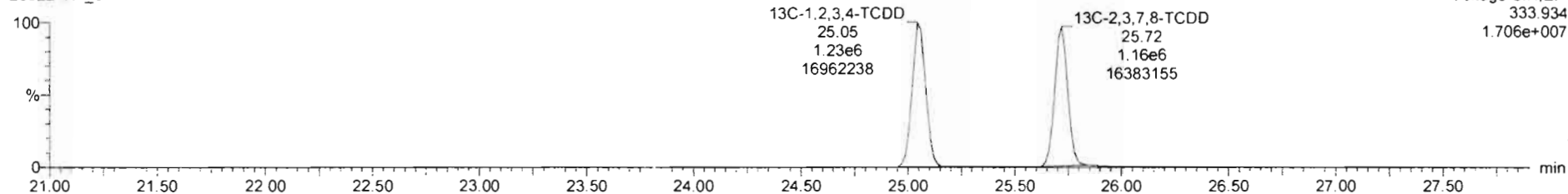


13C-1,2,3,4-TCDD

200224R1_6



200224R1_6



Dataset: Untitled

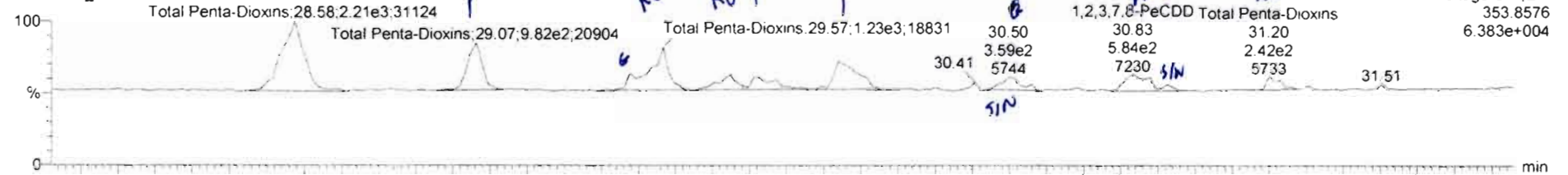
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

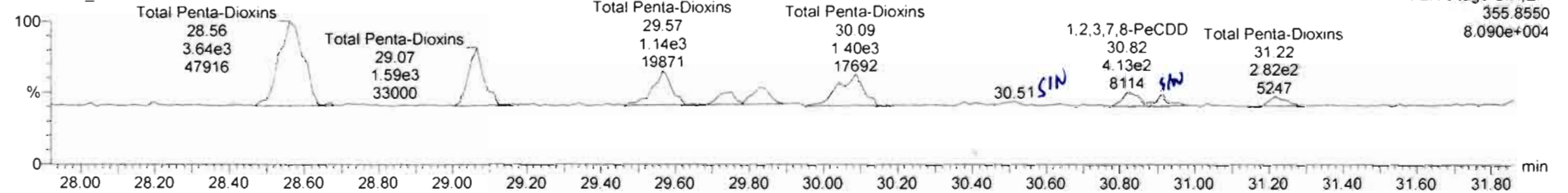
Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

1,2,3,7,8-PeCDD

200224R1_6

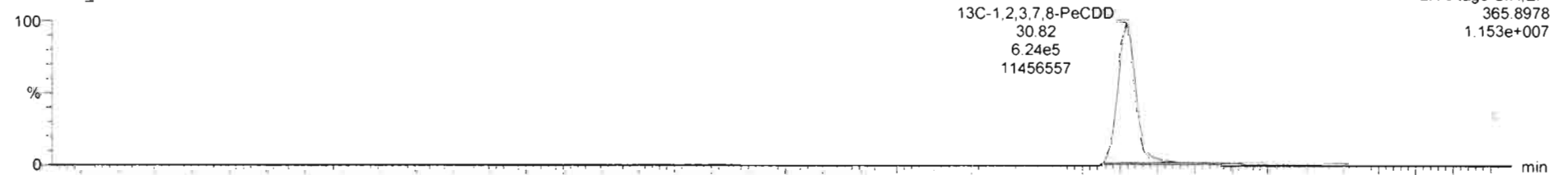


200224R1_6

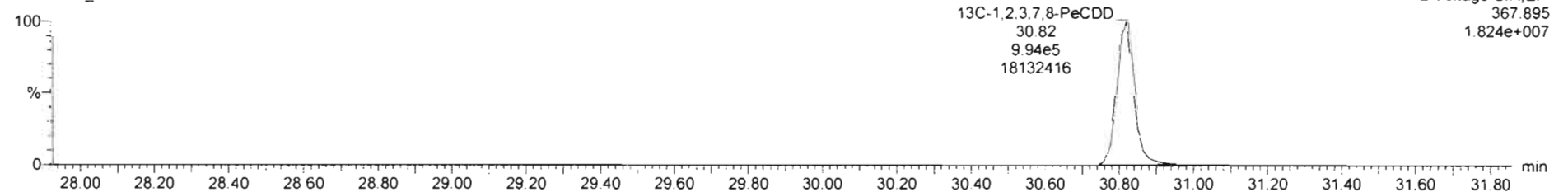


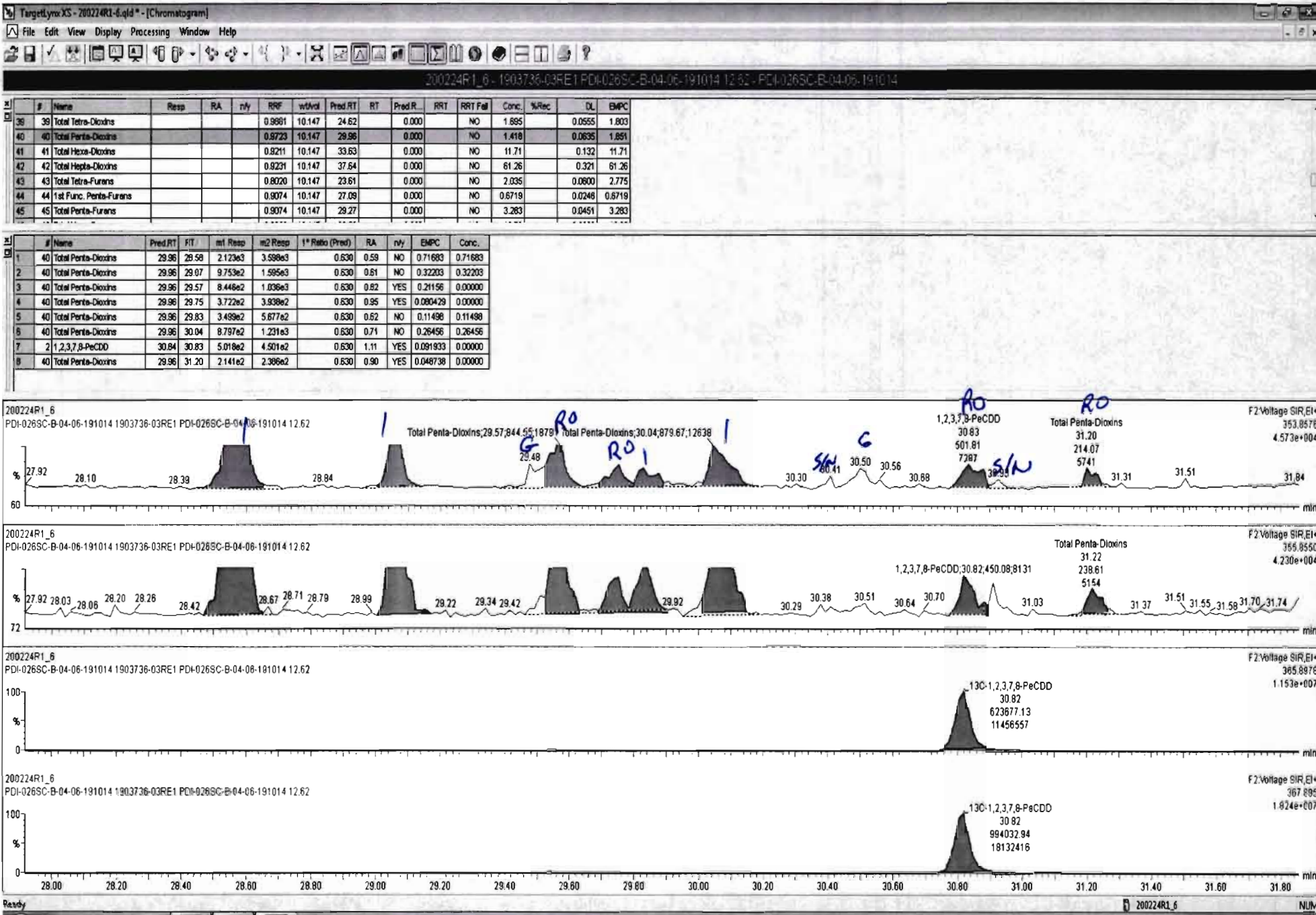
13C-1,2,3,7,8-PeCDD

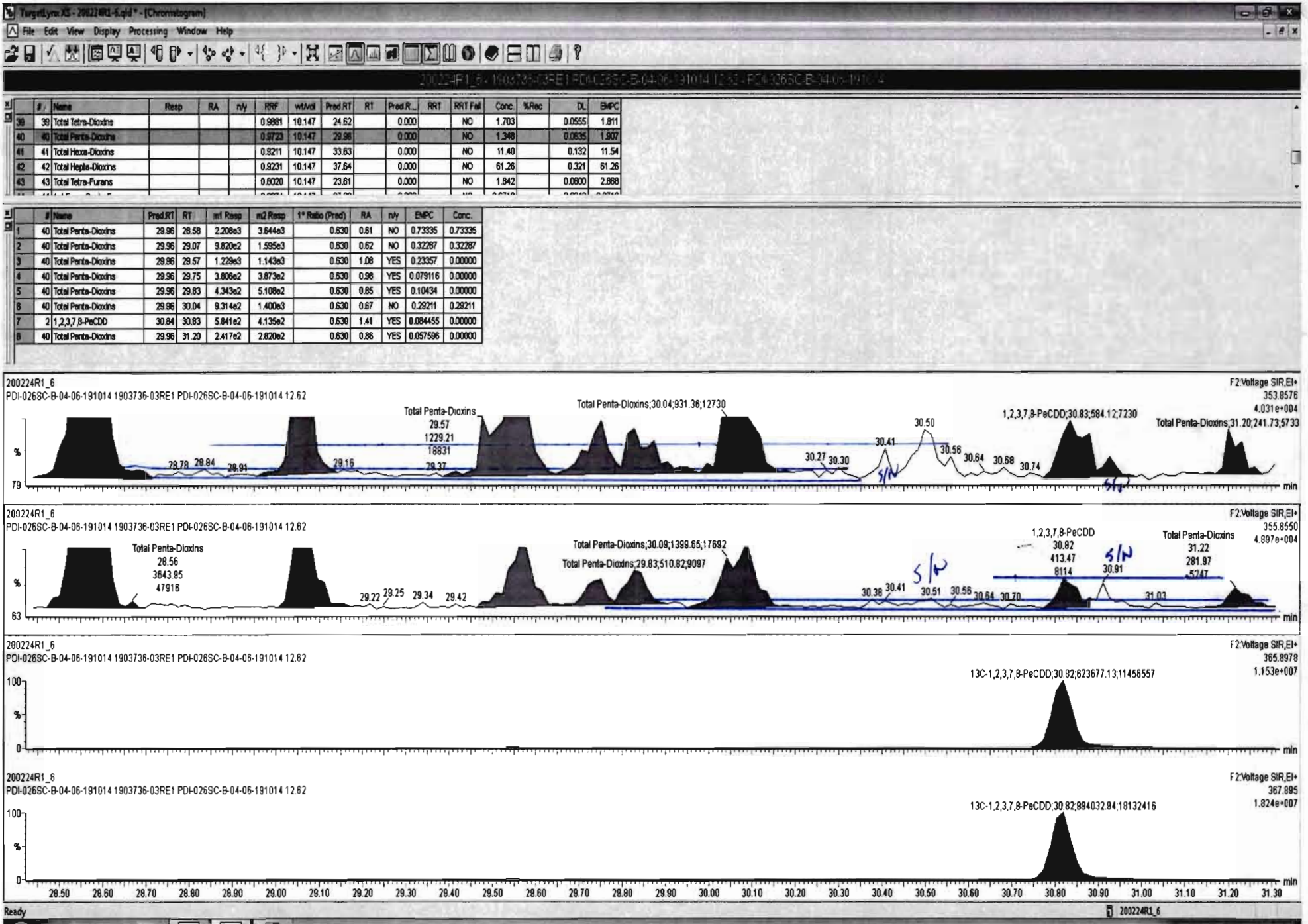
200224R1_6



200224R1_6







Dataset: Untitled

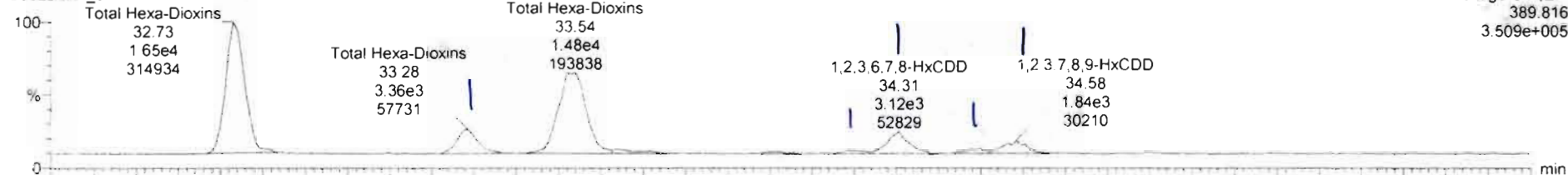
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

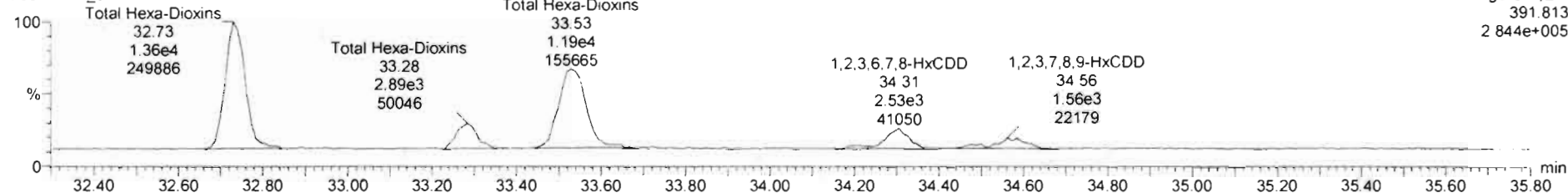
Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

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

200224R1_6

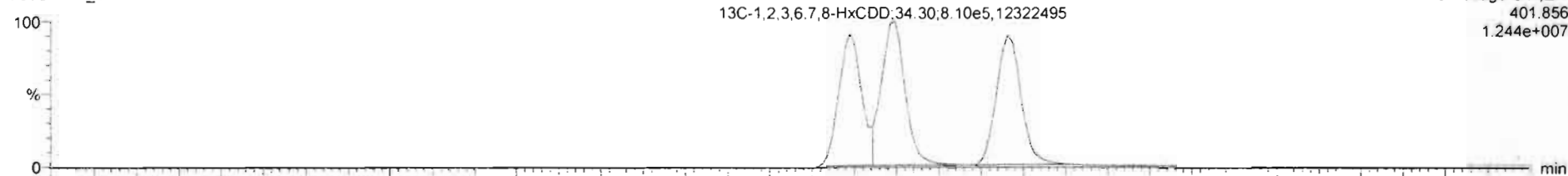


200224R1_6

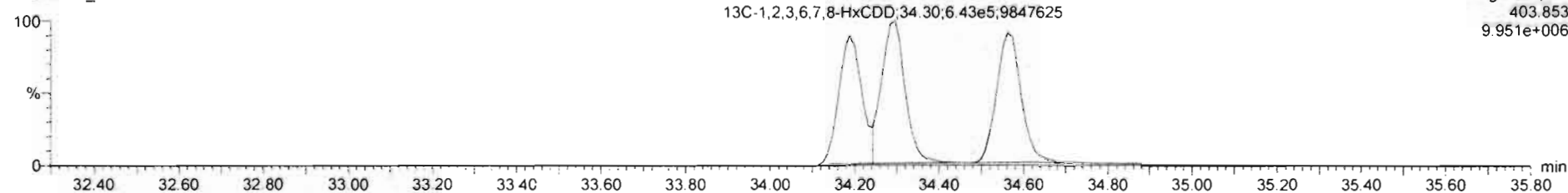


13C-1,2,3,4,7,8-HxCDD

200224R1_6



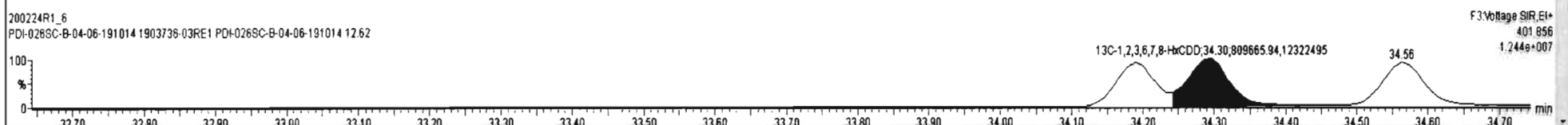
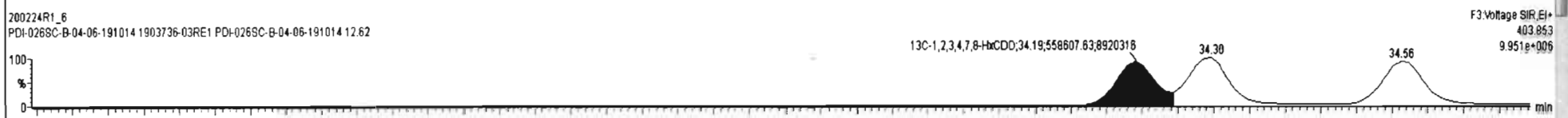
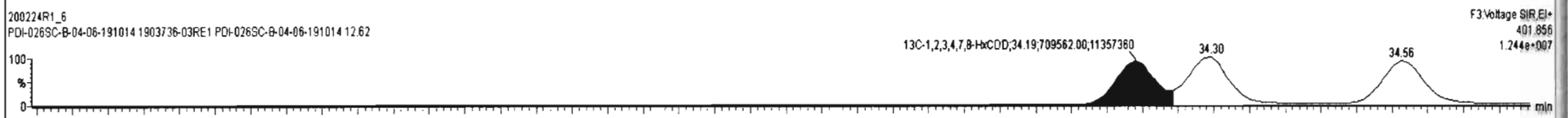
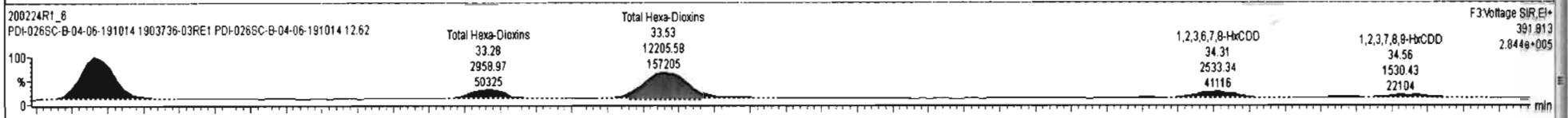
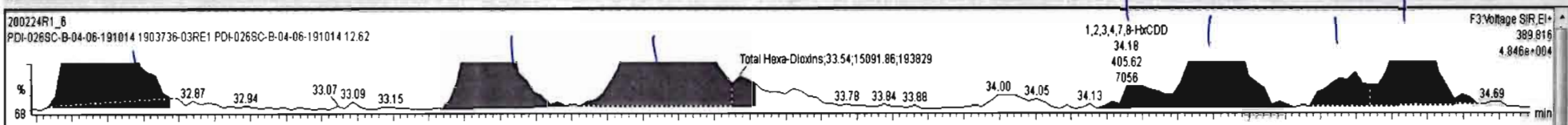
200224R1_6



200224R1_6 - 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62 - PDI-026SC-B-04-06-191014

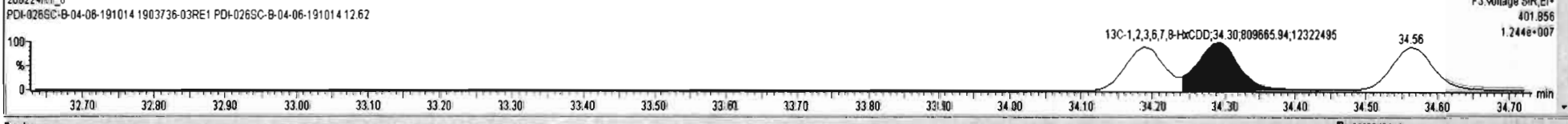
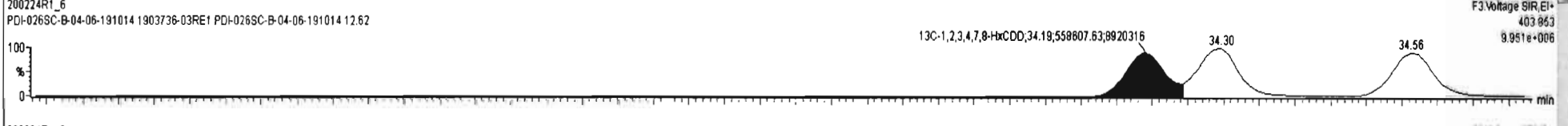
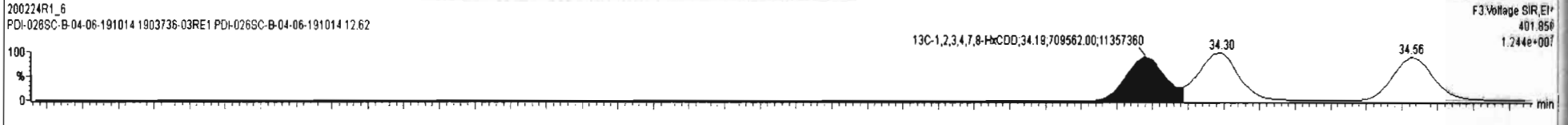
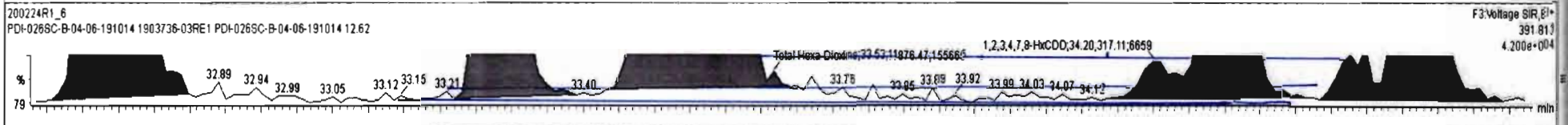
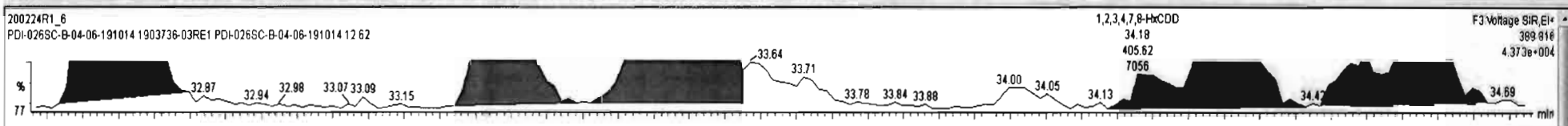
#	Name	Resp	RA	n/y	RPF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.147	24.62		0.000		NO	1.703		0.0555	1.811
40	Total Penta-Dioxins				0.9723	10.147	29.96		0.000		NO	1.417		0.0635	1.889
41	Total Hexa-Dioxins				0.9221	10.147	33.63		0.000		NO	11.71		0.132	11.71
42	Total Hepta-Dioxins				0.9231	10.147	37.64		0.000		NO	61.26		0.321	61.26
43	Total Tetra-Furans				0.8020	10.147	23.61		0.000		NO	1.842		0.0600	2.868

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.73	1.666e4	1.375e4	1.240	1.21	NO	4.7900	4.7900
2	41 Total Hexa-Dioxins	33.63	33.28	3.357e3	2.959e3	1.240	1.13	NO	0.99479	0.99479
3	41 Total Hexa-Dioxins	33.63	33.54	1.509e4	1.221e4	1.240	1.24	NO	4.2996	4.2996
4	3 1,2,3,4,7,8-HxCDD	34.20	34.18	4.056e2	3.171e2	1.240	1.28	NO	0.10490	0.10490
5	4 1,2,3,6,7,8-HxCDD	34.30	34.31	3.116e3	2.533e3	1.240	1.23	NO	0.83187	0.83187
6	41 Total Hexa-Dioxins	33.63	34.50	5.114e2	3.952e2	1.240	1.29	NO	0.14280	0.14280
7	5 1,2,3,7,8,9-HxCDD	34.60	34.58	1.904e3	1.530e3	1.240	1.24	NO	0.54439	0.54439



#	Name	Resp	RA	nly	RRF	wAval	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
38	Total Tetra-Dioxins				0.9881	10.147	24.62		0.000		NO	1.703		0.0555	1.811
40	Total Penta-Dioxins				0.9723	10.147	29.96		0.000		NO	1.417		0.0635	1.869
41	Total Hexa-Dioxins				0.9211	10.147	33.63		0.000		NO	11.40		0.132	11.54
42	Total Hepta-Dioxins				0.9231	10.147	37.64		0.000		NO	61.26		0.321	61.26
43	Total Tetra-Furans				0.8020	10.147	23.61		0.000		NO	1.842		0.0600	2.688

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.73	1.645e4	1.364e4	1.240	1.21	NO	4.7389	4.7389
2	41 Total Hexa-Dioxins	33.63	33.28	3.357e3	2.862e3	1.240	1.16	NO	0.98424	0.98424
3	41 Total Hexa-Dioxins	33.63	33.54	1.463e4	1.186e4	1.240	1.25	NO	4.2058	4.2058
4	3 1,2,3,4,7,8-HxCDD	34.20	34.18	4.056e2	3.171e2	1.240	1.28	NO	0.10490	0.10490
5	4 1,2,3,6,7,8-HxCDD	34.30	34.31	3.116e3	2.529e3	1.240	1.23	NO	0.83122	0.83122
6	41 Total Hexa-Dioxins	33.63	34.50	5.789e2	3.952e2	1.240	1.47	YES	0.13943	0.00000
7	5 1,2,3,7,8,9-HxCDD	34.60	34.58	1.837e3	1.556e3	1.240	1.18	NO	0.53767	0.53767



Dataset: Untitled

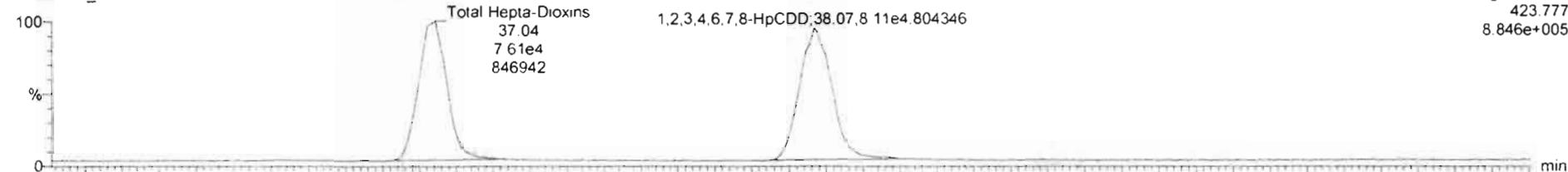
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

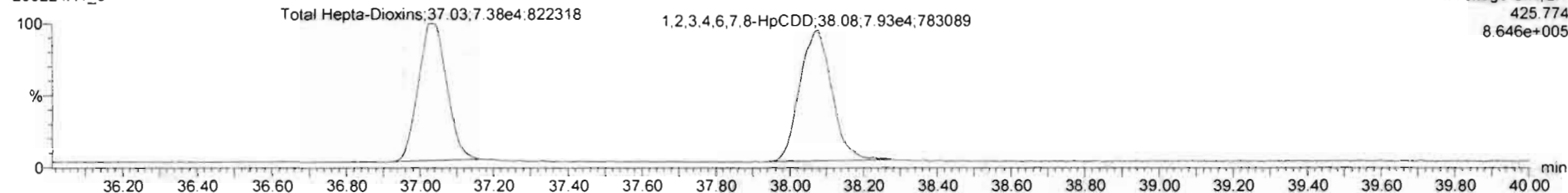
Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

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

200224R1_6

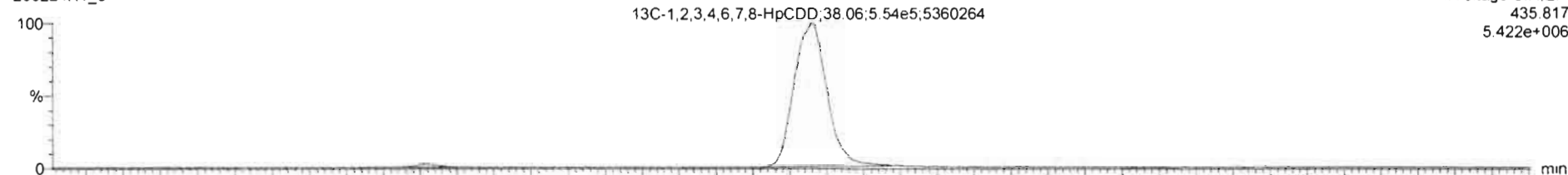


200224R1_6

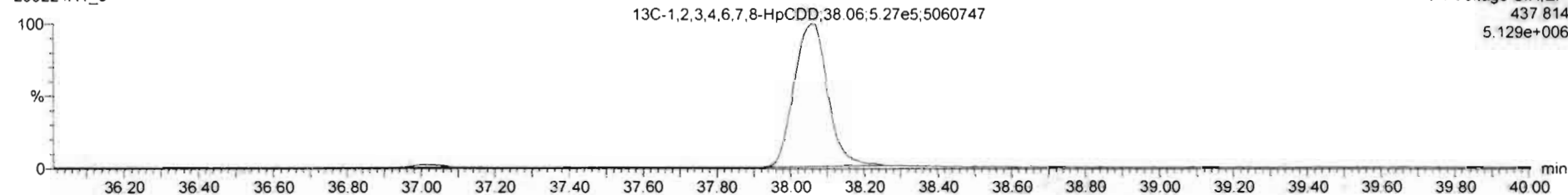


13C-1,2,3,4,6,7,8-HpCDD

200224R1_6



200224R1_6

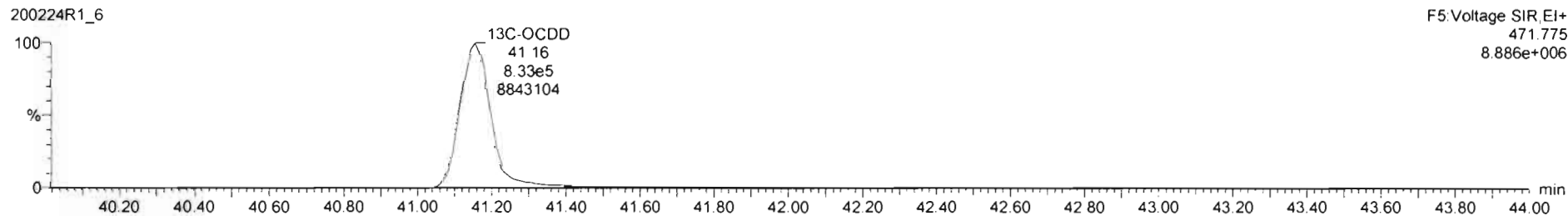
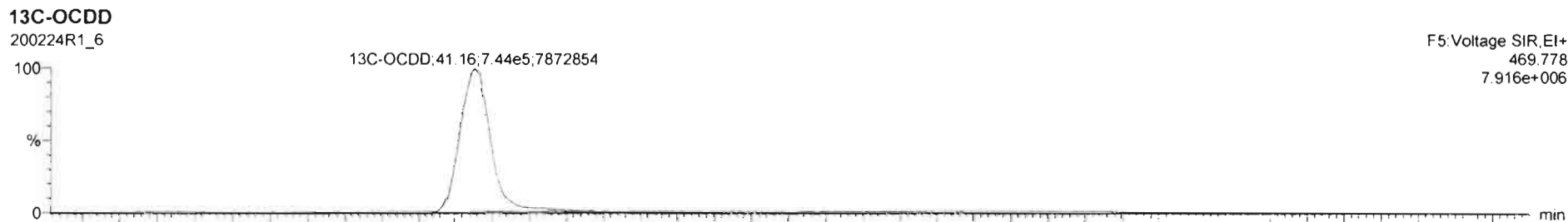
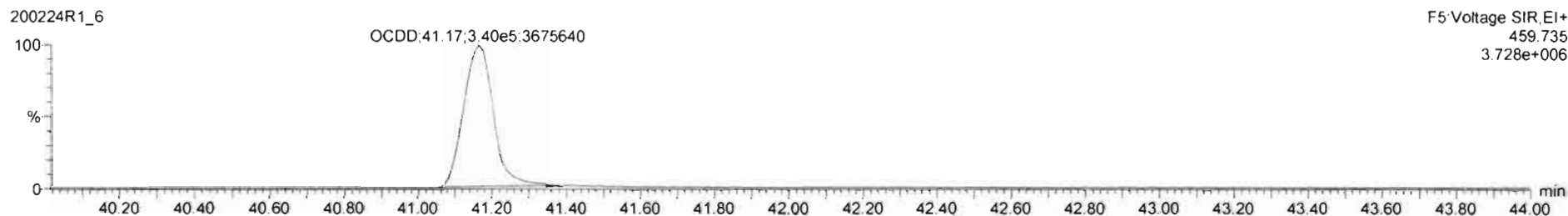
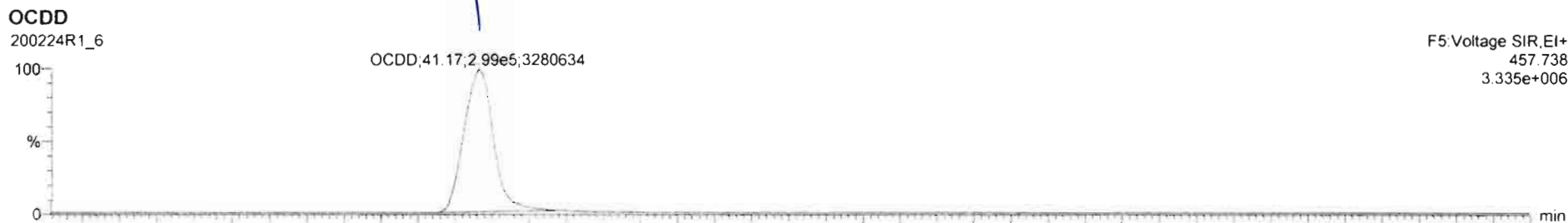


Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

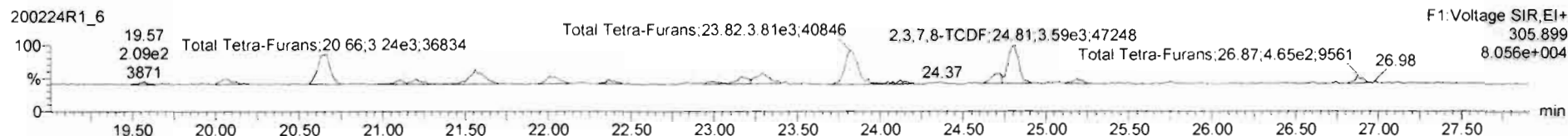
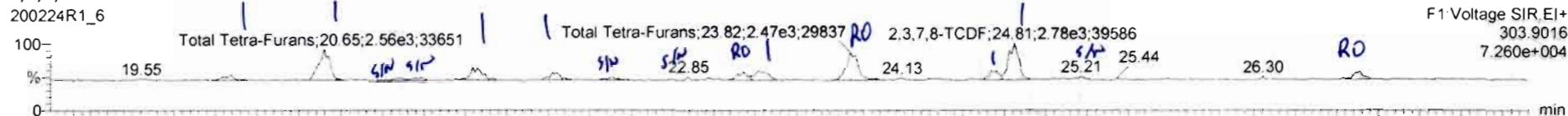


Dataset: Untitled

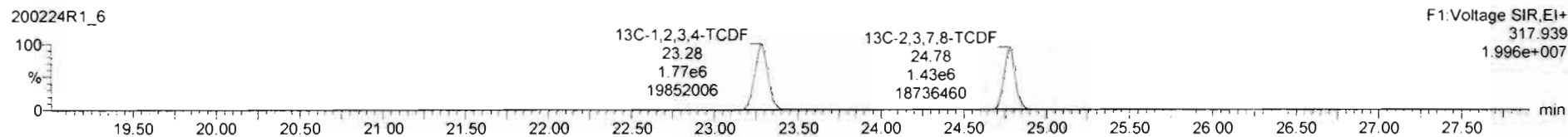
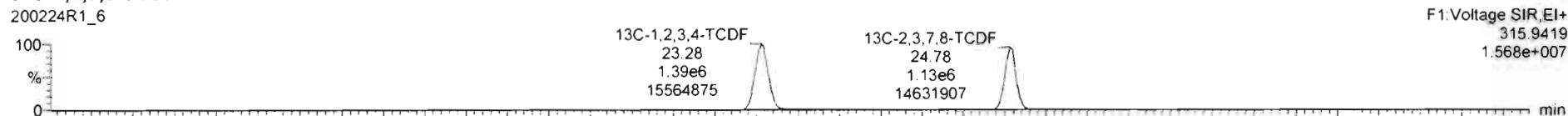
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

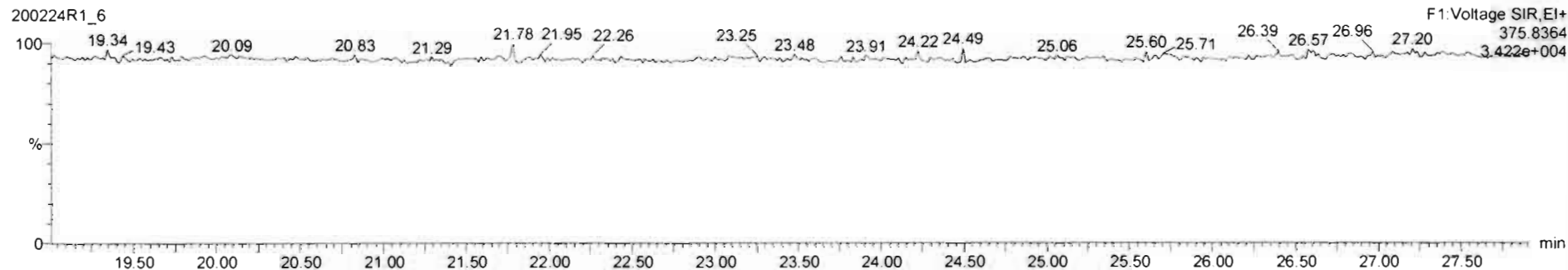
2,3,7,8-TCDF



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

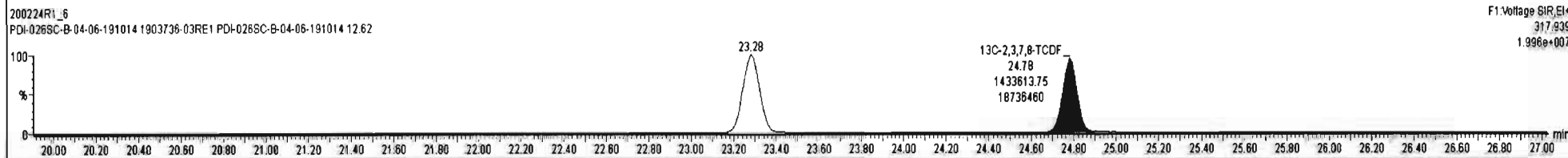
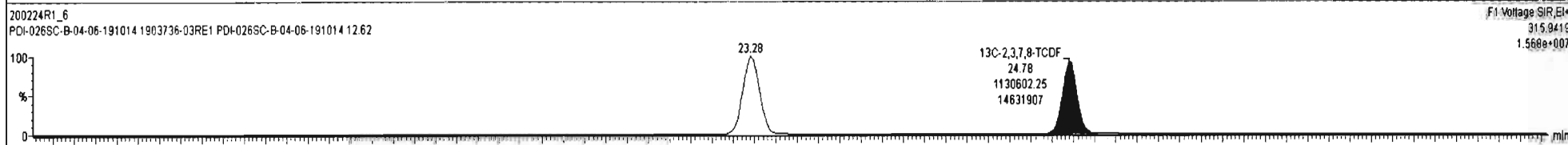
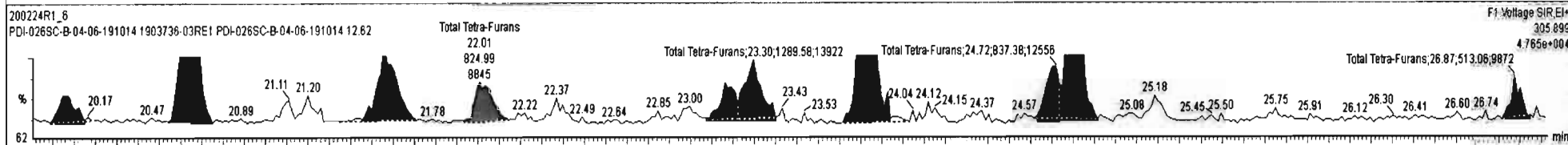
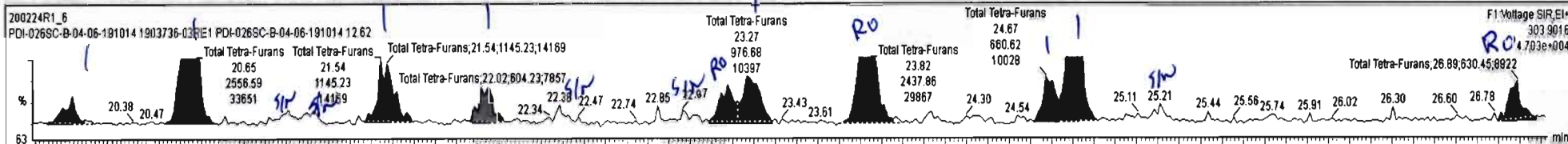


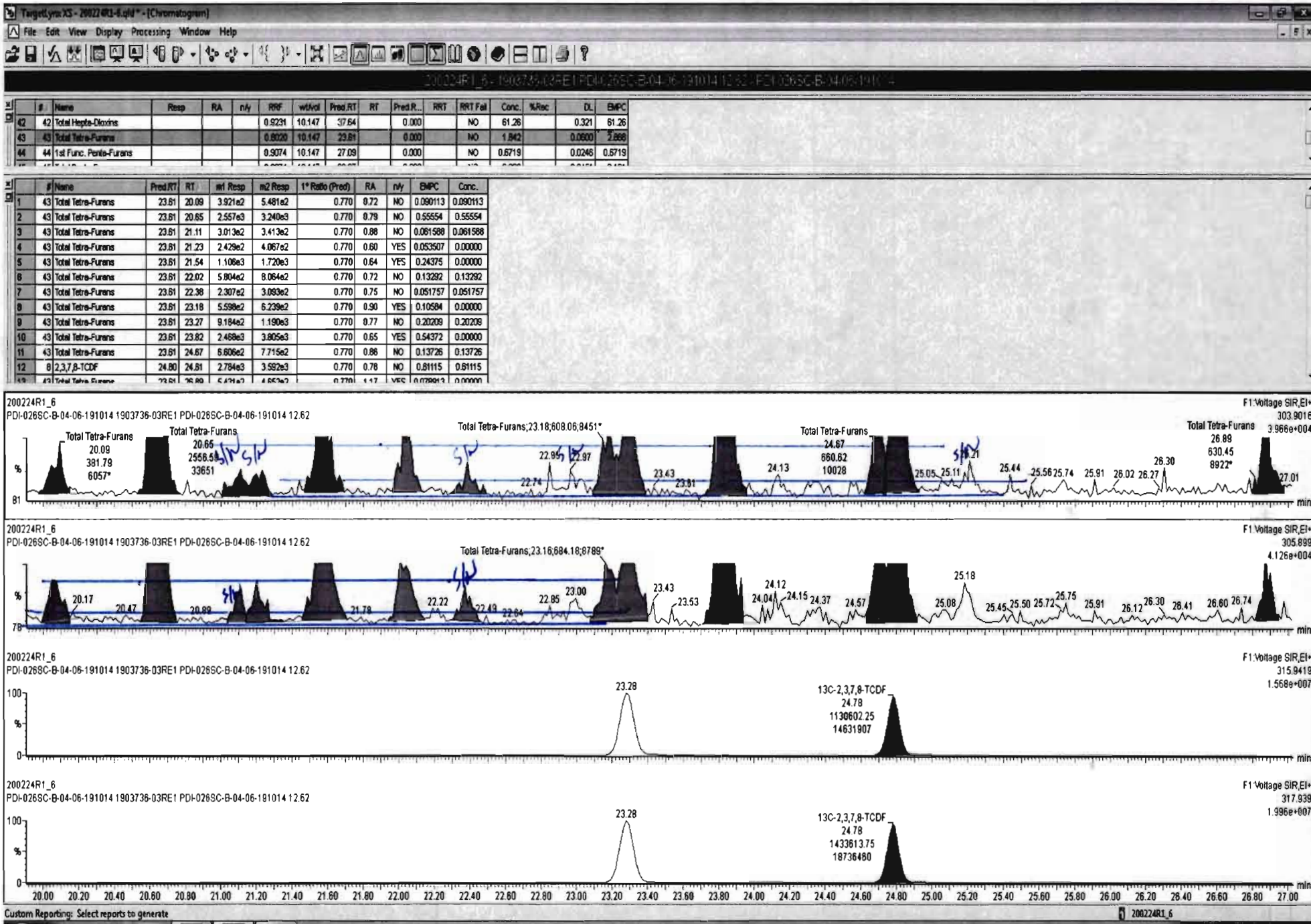
DPE1



#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.8231	10.147	37.64		0.000		NO	61.26		0.321	61.26
43	Total Tetra-Furans				0.8020	10.147	23.61		0.000		NO	2.005		0.0600	2.775
44	1st Func. Penta-Furans				0.9074	10.147	27.09		0.000		NO	0.6719		0.0246	0.6719

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	Total Tetra-Furans	23.61	20.09	3.818e2	5.753e2	0.770	0.66	NO	0.091735	0.091735
2	Total Tetra-Furans	23.61	20.65	2.557e3	3.240e3	0.770	0.79	NO	0.55554	0.55554
3	Total Tetra-Furans	23.61	21.54	1.145e3	1.671e3	0.770	0.69	NO	0.26892	0.26892
4	Total Tetra-Furans	23.61	22.02	6.042e2	8.250e2	0.770	0.73	NO	0.13699	0.13699
5	Total Tetra-Furans	23.61	23.18	6.061e2	6.842e2	0.770	0.89	YES	0.11607	0.00000
6	Total Tetra-Furans	23.61	23.27	9.767e2	1.290e3	0.770	0.76	NO	0.21721	0.21721
7	Total Tetra-Furans	23.61	23.62	2.439e3	3.728e3	0.770	0.65	YES	0.53712	0.00000
9	Total Tetra-Furans	23.61	24.67	6.606e2	8.374e2	0.770	0.78	NO	0.14358	0.14358
9	2,3,7,8-TCDF	24.80	24.81	2.790e3	3.675e3	0.770	0.76	NO	0.61974	0.61974
10	Total Tetra-Furans	23.61	26.89	6.305e2	5.131e2	0.770	1.23	YES	0.087040	0.00000





Dataset: Untitled

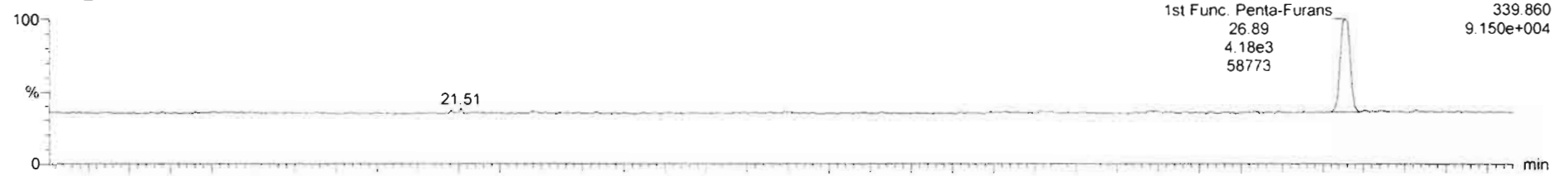
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

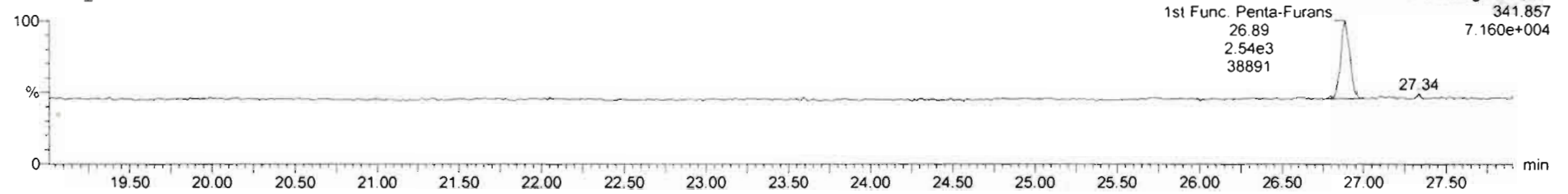
Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

1st Func. Penta-Furans

200224R1_6

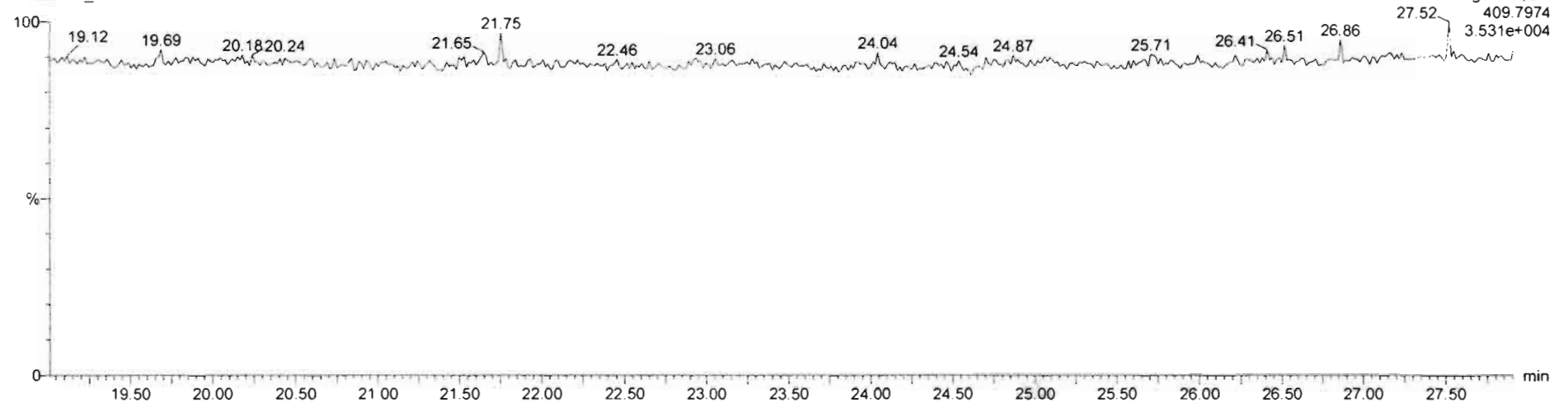


200224R1_6



DPE6

200224R1_6

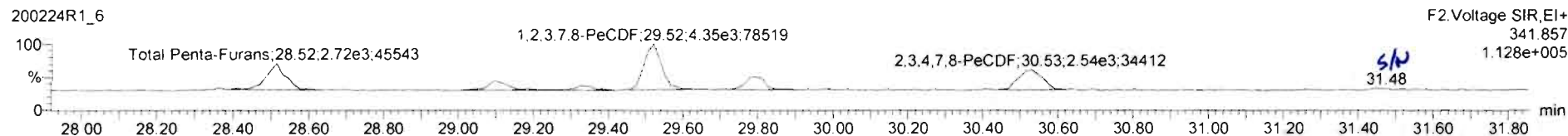
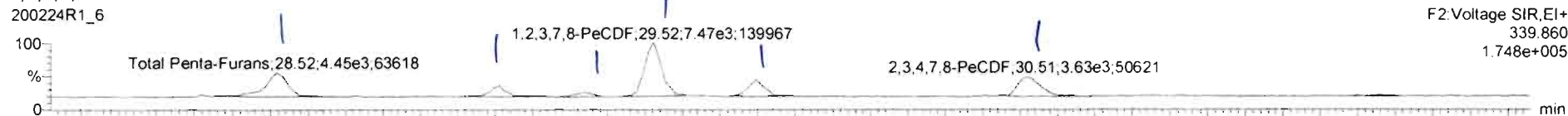


Dataset: Untitled

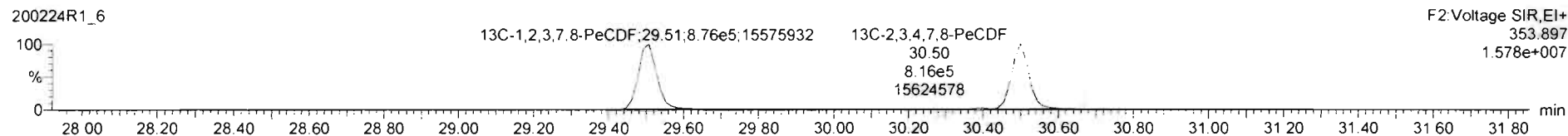
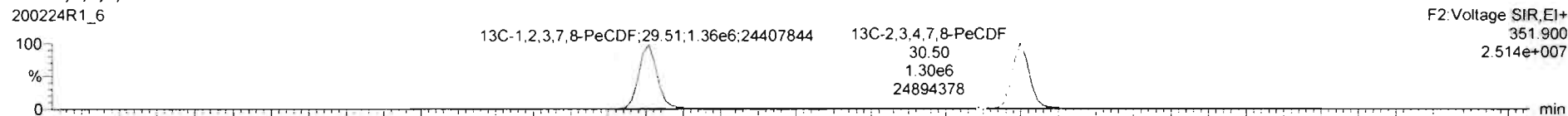
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

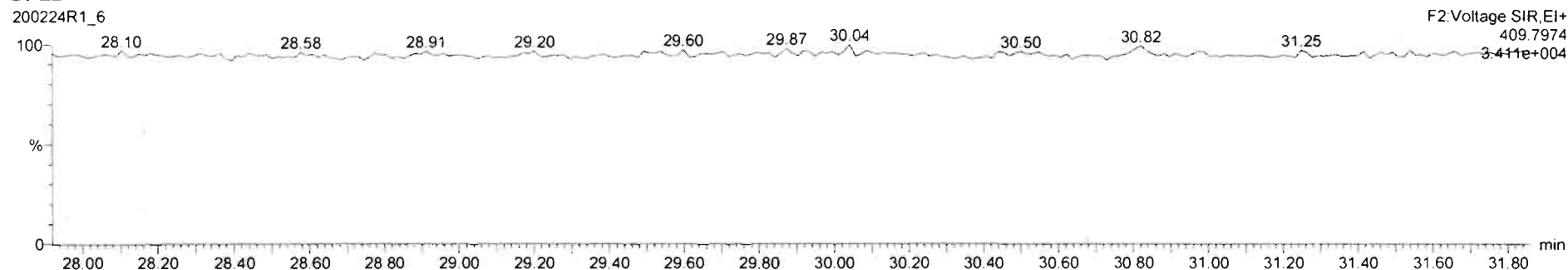
1,2,3,7,8-PeCDF

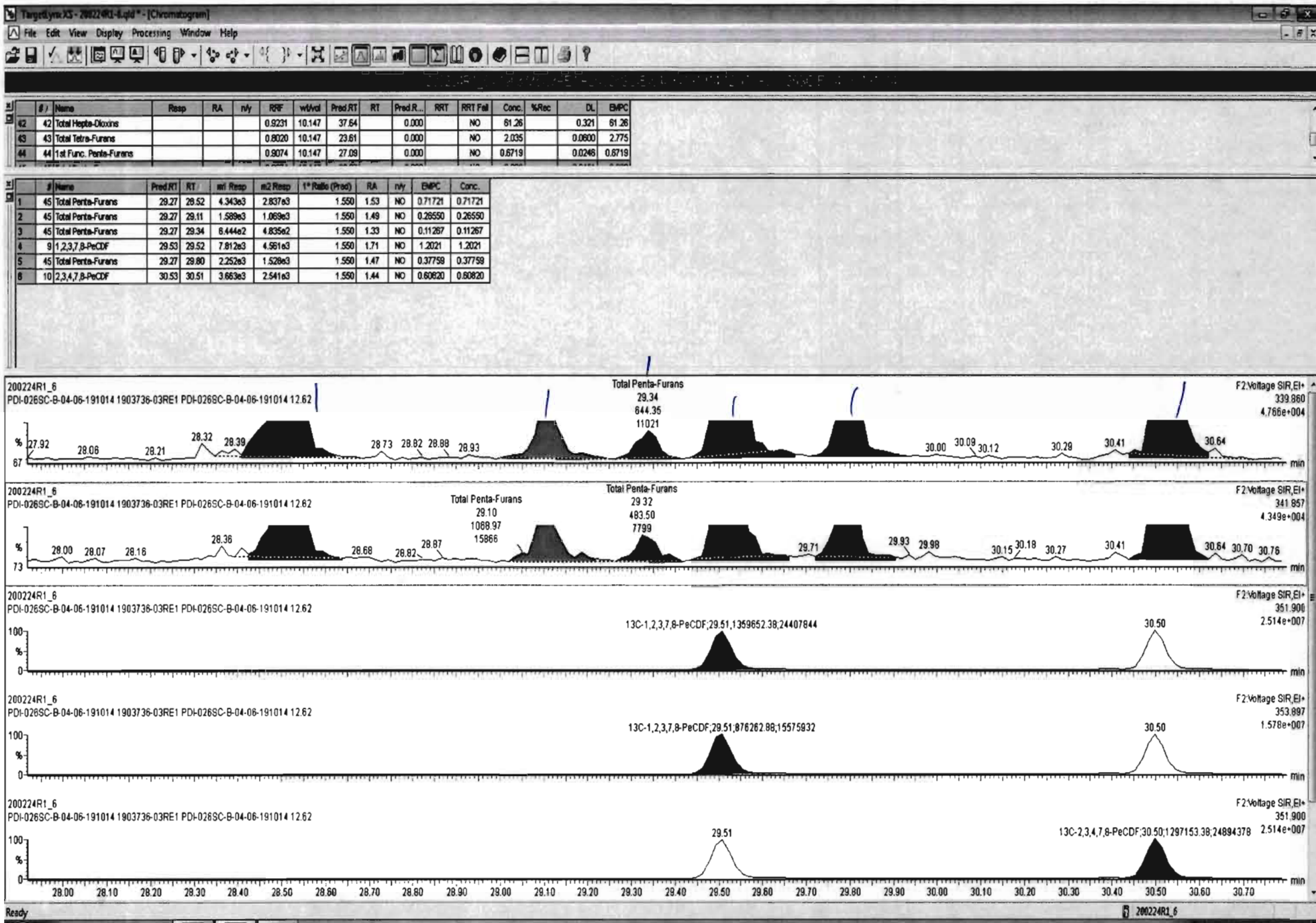


13C-1,2,3,7,8-PeCDF



DPE2

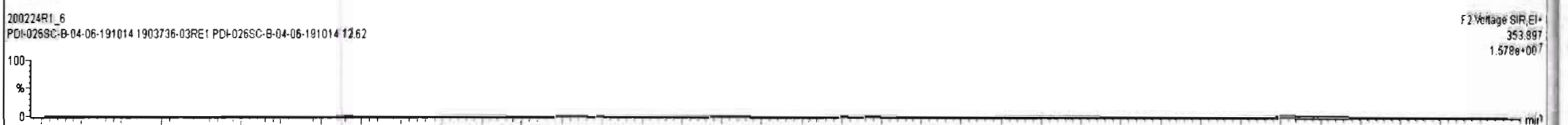
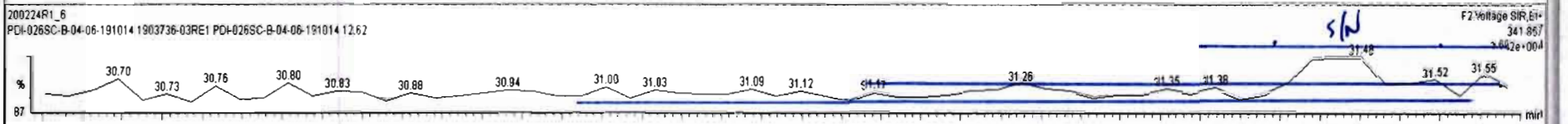
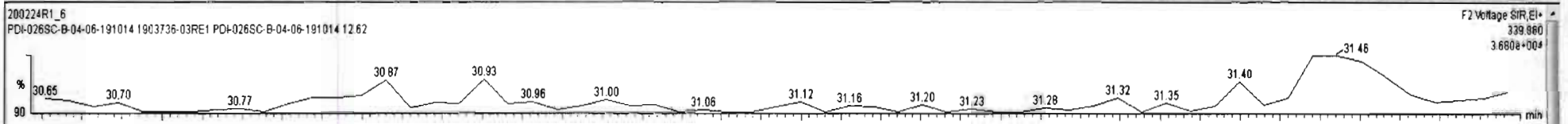




200224R1_6 - 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62 - PDI-026SC-B-04-06-191014

#	Name	Resp	RA	nly	RRF	wt/Vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.147	29.27		0.000		NO	3.263		0.0451	3.263
46	ARI Total Mova Furans				n none	10.147	29.27		n none		NO	10.701		n none	10.001

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	45 Total Penta-Furans	29.27	29.52	4.343e3	2.837e3	1.550	1.53	NO	0.71721	0.71721
2	45 Total Penta-Furans	29.27	29.11	1.589e3	1.069e3	1.550	1.49	NO	0.26550	0.26550
3	45 Total Penta-Furans	29.27	29.34	6.444e2	4.835e2	1.550	1.33	NO	0.11267	0.11267
4	9 1,2,3,7,8-PeCDF	29.53	29.52	7.812e3	4.561e3	1.550	1.71	NO	1.2021	1.2021
5	45 Total Penta-Furans	29.27	29.80	2.252e3	1.528e3	1.550	1.47	NO	0.37759	0.37759
6	10 2,3,4,7,8-PeCDF	30.53	30.51	3.663e3	2.541e3	1.550	1.44	NO	0.60820	0.60820



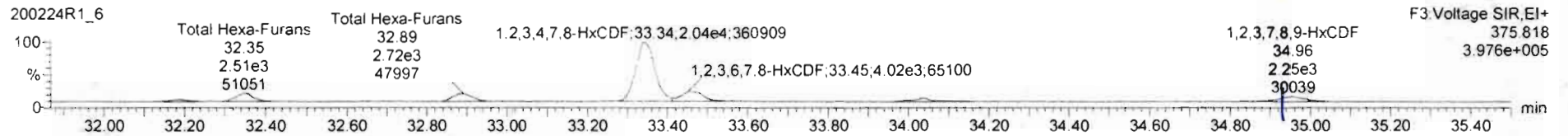
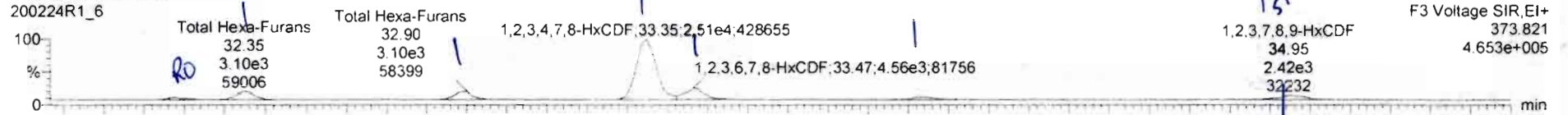
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

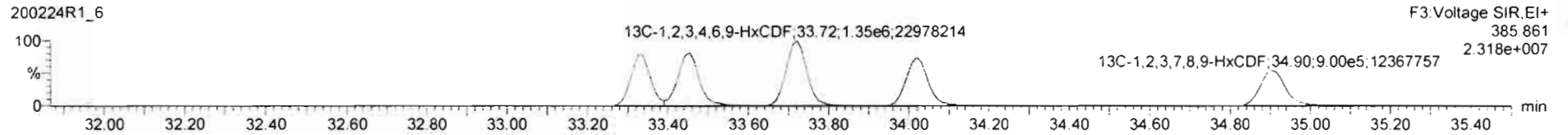
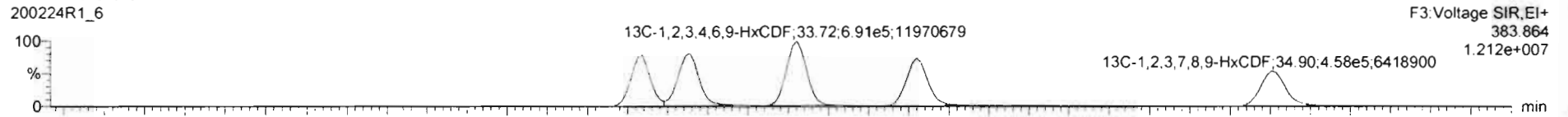
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

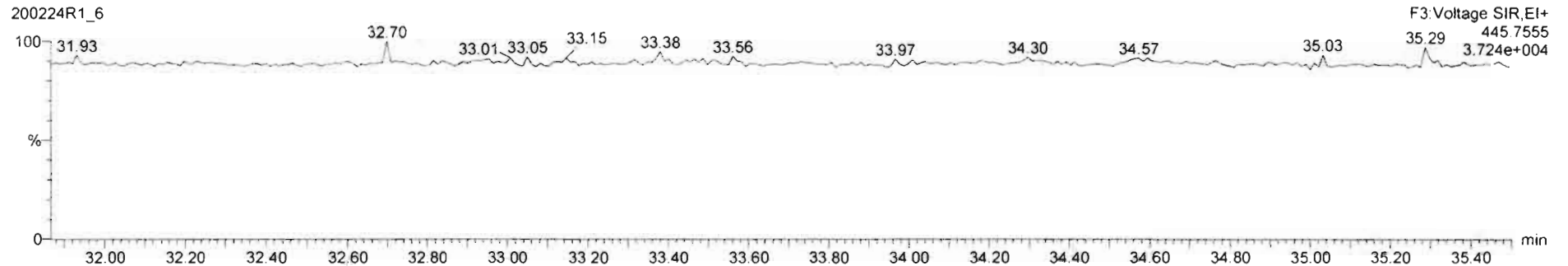
1,2,3,4,7,8-HxCDF

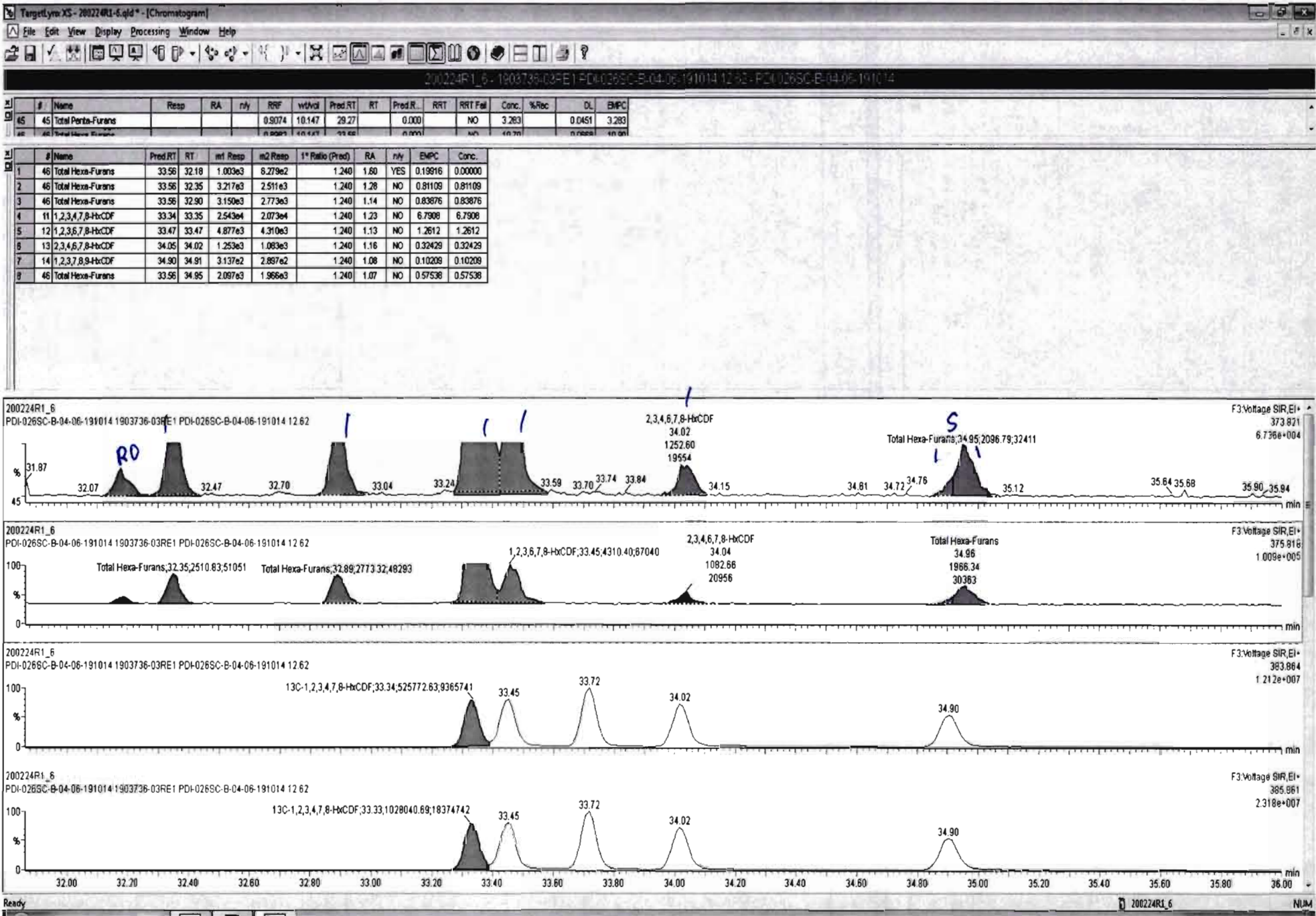


13C-1,2,3,4,7,8-HxCDF



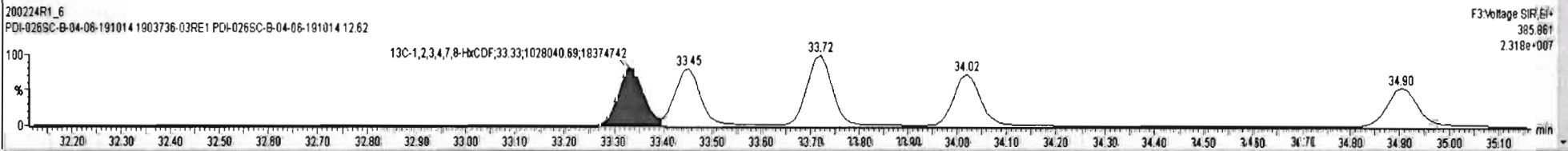
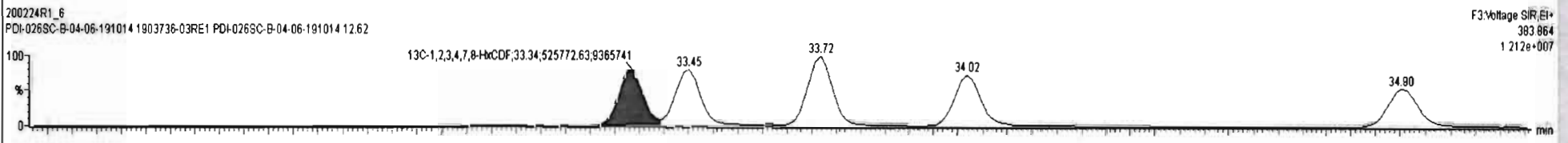
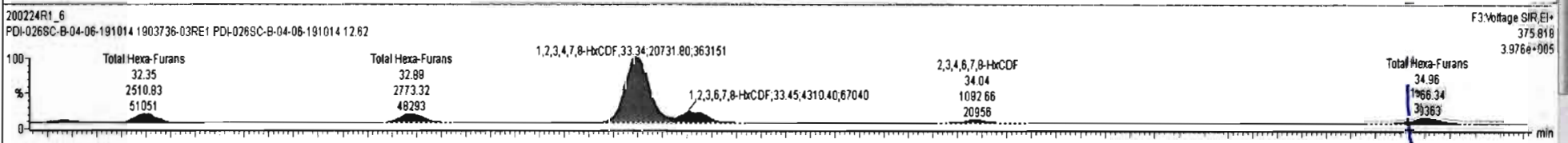
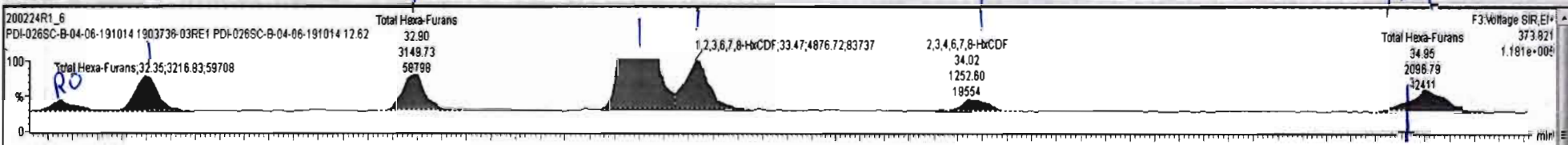
DPE3





#	Name	Resp	RA	nly	RRF	wt/val	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.8982	10.147	33.56		0.000		NO	10.70		0.0868	10.90
47	Total Hepta-Furans				0.8511	10.147	37.83		0.000		NO	8.162		0.119	8.162
48	PFK1														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	nly	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.18	1.003e3	6.279e2	1.240	1.60	YES	0.19816	0.00000
2	46 Total Hexa-Furans	33.56	32.35	3.217e3	2.511e3	1.240	1.28	NO	0.81109	0.81109
3	46 Total Hexa-Furans	33.56	32.80	3.150e3	2.773e3	1.240	1.14	NO	0.83876	0.83876
4	11 1,2,3,4,7,8-HxCDF	33.34	33.35	2.543e4	2.073e4	1.240	1.23	NO	6.7908	6.7908
5	12 1,2,3,6,7,8-HxCDF	33.47	33.47	4.877e3	4.310e3	1.240	1.13	NO	1.2612	1.2612
6	13 2,3,4,6,7,8-HxCDF	34.05	34.02	1.253e3	1.083e3	1.240	1.16	NO	0.32429	0.32429
7	14 1,2,3,7,8,9-HxCDF	34.90	34.91	3.137e2	2.887e2	1.240	1.08	NO	0.10209	0.10209
8	46 Total Hexa-Furans	33.56	34.95	2.097e3	1.966e3	1.240	1.07	NO	0.57538	0.57538



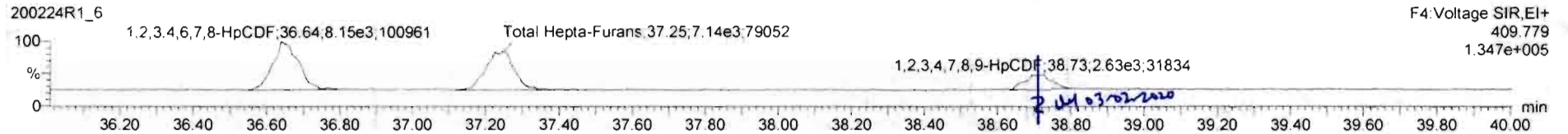
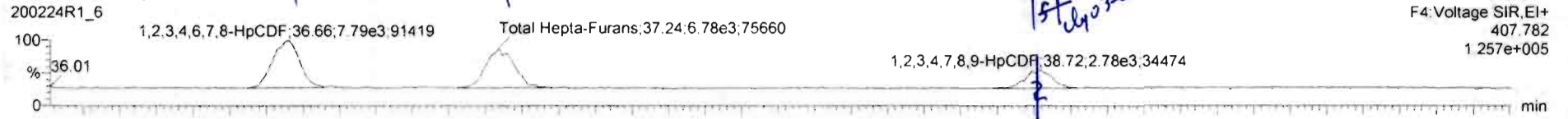
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

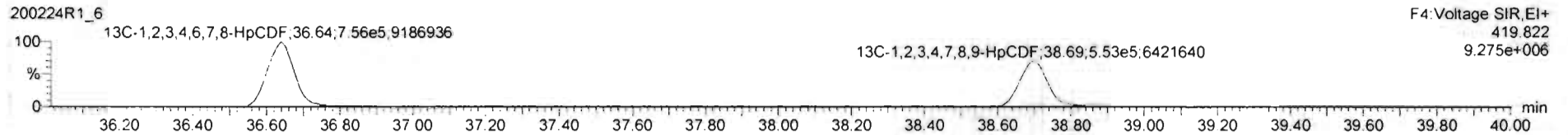
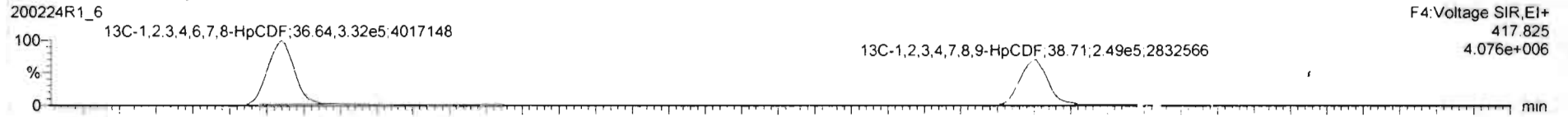
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

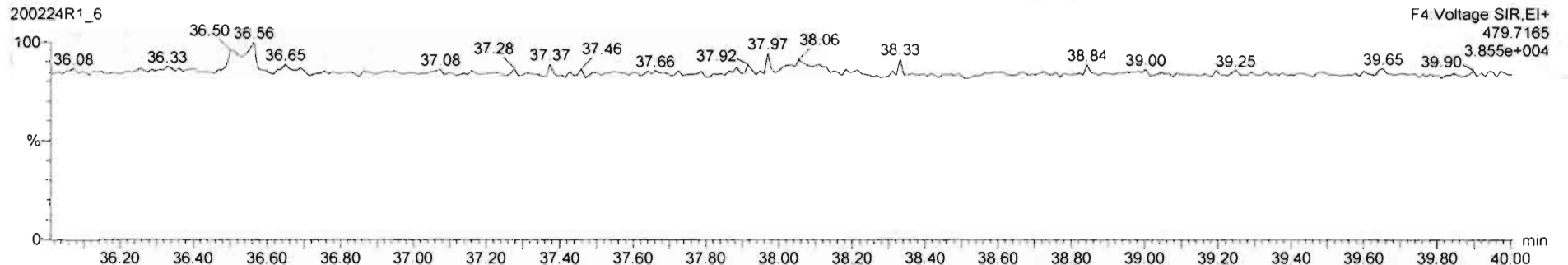
1,2,3,4,6,7,8-HpCDF



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



DPE4

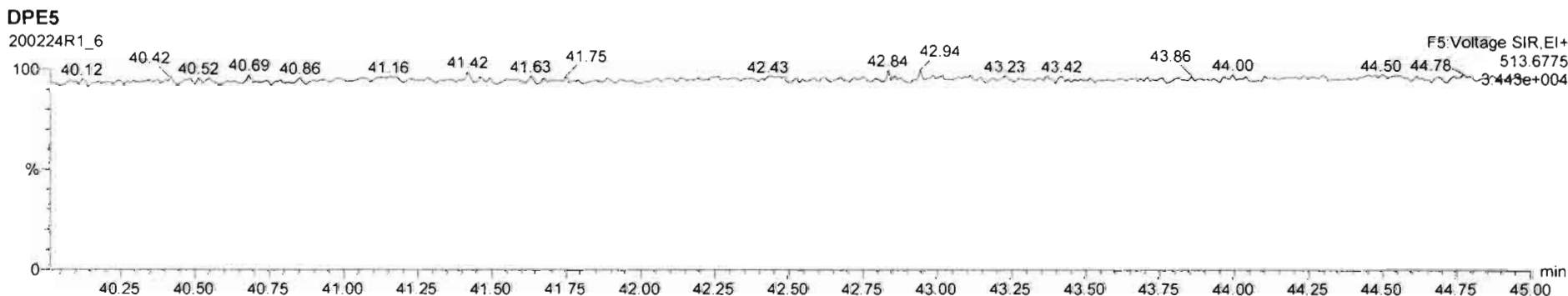
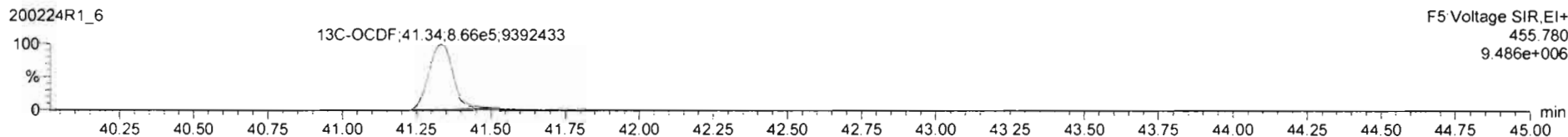
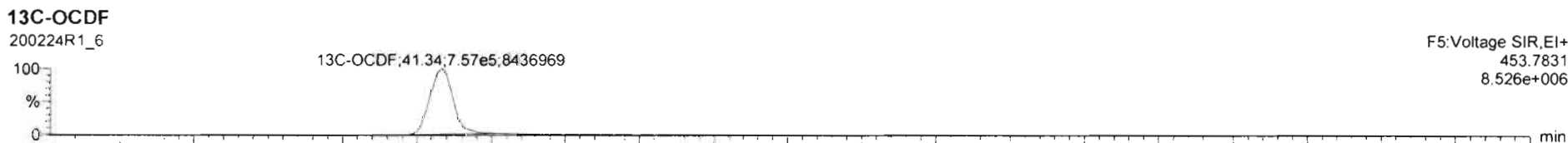
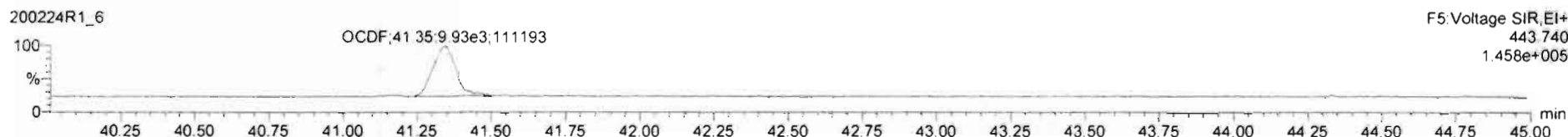
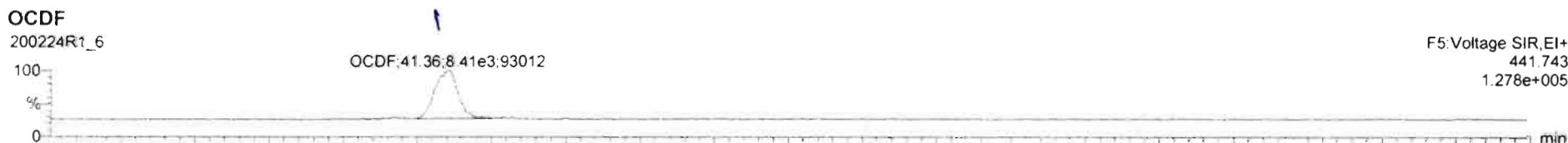


Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

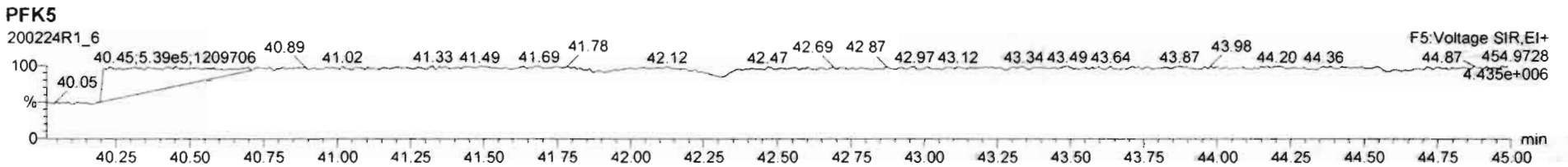
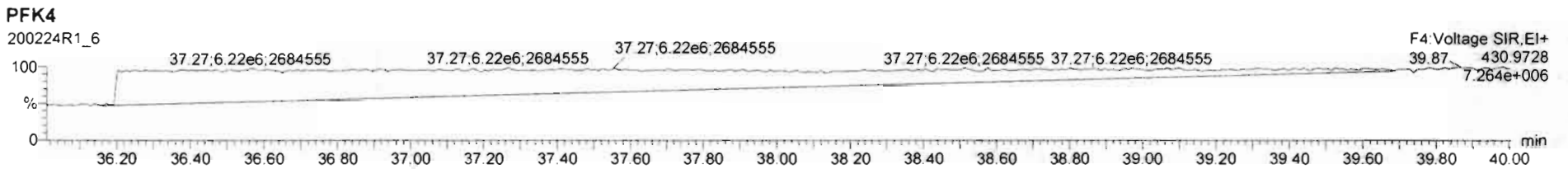
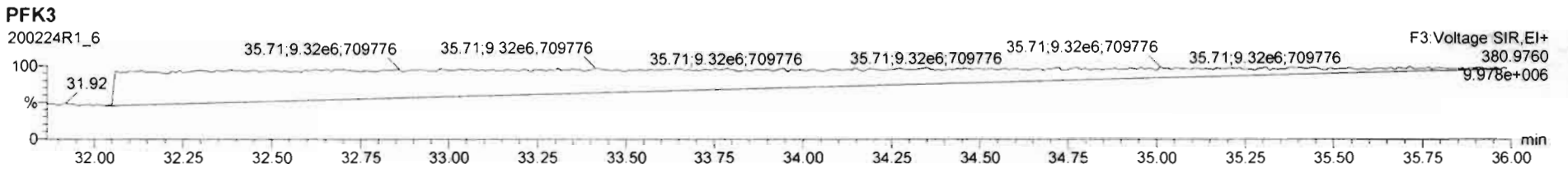
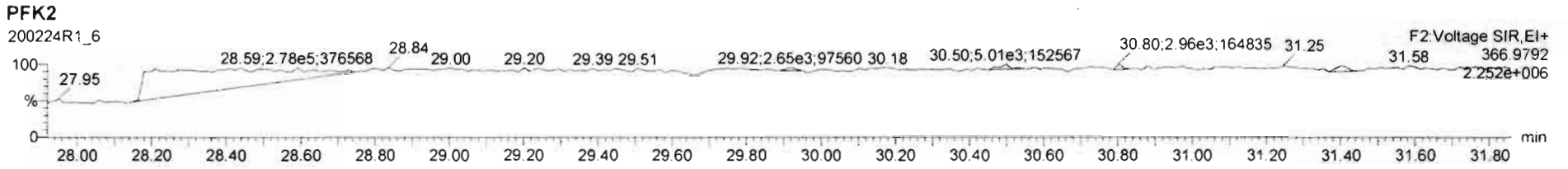
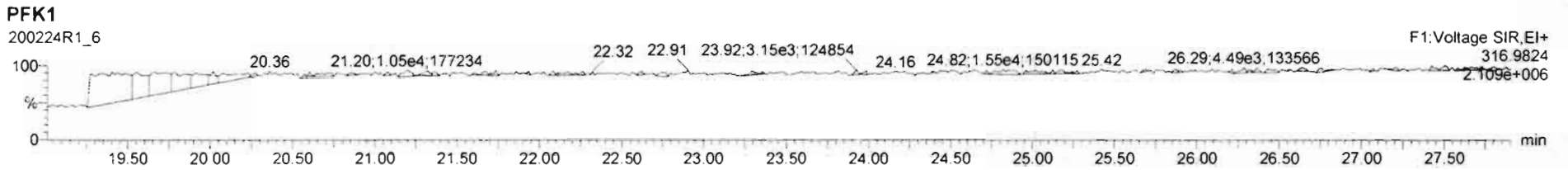


Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_6, Date: 24-Feb-2020, Time: 20:59:25, ID: 1903736-03RE1 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014



Dataset: U:\VG12.PRO\Results\200223R3\200223R3-8.qld

Last Altered: Wednesday, March 18, 2020 09:30:17 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 09:38:42 Pacific Daylight Time

dy 03-18-2020
3/21/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.98e3	2.74e6	0.321	YES	10.43	25.74	25.74	1.00	1.00	NO	0.21114		0.005	0.11792
2	2 1,2,3,7,8-PeCDD	6.32e2	2.26e6	0.458	YES	10.43	30.81	30.80	1.00	1.00	NO	0.055102		0.053	0.0447...
3	3 1,2,3,4,7,8-HxCDD	1.20e3	1.71e6	1.652	YES	10.43	34.18	34.27	1.00	1.00	NO	0.12626		0.040	0.10665
4	4 1,2,3,6,7,8-HxCDD		2.17e6			10.43	34.26		1.00		NO			0.051	
5	5 1,2,3,7,8,9-HxCDD		1.97e6			10.43	34.58		1.00		NO			0.058	
6	6 1,2,3,4,6,7,8-HpCDD	1.99e4	1.66e6	1.035	NO	10.43	38.05	38.06	1.00	1.00	NO	2.4858		0.264	2.4858
7	7 OCDD	2.50e6	2.75e6	0.897	NO	10.43	41.14	41.15	1.00	1.00	NO	358.05		0.209	358.05
8	8 2,3,7,8-TCDF	7.88e2	3.37e6	0.857	NO	10.43	24.79	24.78	1.00	1.00	NO	0.055968		0.038	0.0559...
9	9 1,2,3,7,8-PeCDF	1.18e3	3.05e6	1.320	NO	10.43	29.50	29.49	1.00	1.00	NO	0.081537		0.043	0.0815...
10	10 2,3,4,7,8-PeCDF	3.85e2	2.95e6	1.391	NO	10.43	30.48	30.50	1.00	1.00	NO	0.026290		0.044	0.0262...
11	11 1,2,3,4,7,8-HxCDF	1.83e3	2.24e6	1.110	NO	10.43	33.31	33.32	1.00	1.00	NO	0.18124		0.057	0.18124
12	12 1,2,3,6,7,8-HxCDF	1.21e3	2.41e6	1.330	NO	10.43	33.43	33.47	1.00	1.00	NO	0.11412		0.056	0.11412
13	13 2,3,4,6,7,8-HxCDF		2.26e6			10.43	34.03		1.00		NO			0.059	
14	14 1,2,3,7,8,9-HxCDF		1.97e6			10.43	34.88		1.00		NO			0.080	
15	15 1,2,3,4,6,7,8-HpCDF	2.25e3	1.74e6	0.829	YES	10.43	36.64	36.63	1.00	1.00	NO	0.29188		0.066	0.25950
16	16 1,2,3,4,7,8,9-HpCDF		1.30e6			10.43	38.67		1.00		NO			0.078	
17	17 OCDF	3.63e3	3.21e6	0.847	NO	10.43	41.33	41.34	1.00	1.00	NO	0.53899		0.079	0.53899
18	18 13C-2,3,7,8-TCDD	2.74e6	2.46e6	0.777	NO	10.43	25.68	25.70	1.03	1.03	NO	177.85	92.7	0.109	
19	19 13C-1,2,3,7,8-PeCDD	2.26e6	2.46e6	0.625	NO	10.43	30.41	30.79	1.22	1.23	NO	182.17	95.0	0.151	
20	20 13C-1,2,3,4,7,8-HxCDD	1.71e6	2.36e6	1.270	NO	10.43	34.17	34.17	1.01	1.01	NO	158.71	82.7	0.200	
21	21 13C-1,2,3,6,7,8-HxCDD	2.17e6	2.36e6	1.267	NO	10.43	34.27	34.26	1.02	1.02	NO	168.24	87.7	0.167	
22	22 13C-1,2,3,7,8,9-HxCDD	1.97e6	2.36e6	1.243	NO	10.43	34.58	34.54	1.03	1.02	NO	164.15	85.6	0.179	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.66e6	2.36e6	1.041	NO	10.43	38.15	38.03	1.13	1.13	NO	180.66	94.2	0.297	
24	24 13C-OCDD	2.75e6	2.36e6	0.897	NO	10.43	41.05	41.14	1.22	1.22	NO	316.17	82.4	0.207	
25	25 13C-2,3,7,8-TCDF	3.37e6	3.50e6	0.776	NO	10.43	24.86	24.76	0.99	0.99	NO	173.19	90.3	0.140	
26	26 13C-1,2,3,7,8-PeCDF	3.05e6	3.50e6	1.568	NO	10.43	29.44	29.48	1.18	1.18	NO	166.83	87.0	0.333	
27	27 13C-2,3,4,7,8-PeCDF	2.95e6	3.50e6	1.575	NO	10.43	30.41	30.48	1.21	1.22	NO	167.93	87.5	0.347	
28	28 13C-1,2,3,4,7,8-HxCDF	2.24e6	2.36e6	0.510	NO	10.43	33.30	33.31	0.99	0.99	NO	173.28	90.3	0.239	
29	29 13C-1,2,3,6,7,8-HxCDF	2.41e6	2.36e6	0.514	NO	10.43	33.40	33.42	0.99	0.99	NO	164.39	85.7	0.210	
30	30 13C-2,3,4,6,7,8-HxCDF	2.26e6	2.36e6	0.514	NO	10.43	34.01	34.00	1.01	1.01	NO	171.92	89.6	0.235	
31	31 13C-1,2,3,7,8,9-HxCDF	1.97e6	2.36e6	0.516	NO	10.43	34.91	34.88	1.04	1.04	NO	173.42	90.4	0.271	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.74e6	2.36e6	0.444	NO	10.43	36.67	36.61	1.09	1.09	NO	183.92	95.9	0.302	

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-8.qld

Last Altered: Wednesday, March 18, 2020 09:30:17 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 09:38:42 Pacific Daylight Time

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.30e6	2.36e6	0.439	NO	10.43	38.69	38.67	1.15	1.15	NO	191.08	99.6	0.419	
34	34 13C-OCDF	3.21e6	2.36e6	0.882	NO	10.43	41.28	41.33	1.23	1.23	NO	329.58	85.9	0.180	
35	35 37Cl-2,3,7,8-TCDD	1.03e6	2.46e6			10.43	25.71	25.72	1.03	1.03	NO	68.475	89.2	0.036	
36	36 13C-1,2,3,4-TCDD	2.46e6	2.46e6	0.787	NO	10.43	25.11	25.03	1.00	1.00	NO	191.83	100.0	0.130	
37	37 13C-1,2,3,4-TCDF	3.50e6	3.50e6	0.804	NO	10.43	23.37	23.27	1.00	1.00	NO	191.83	100.0	0.149	
38	38 13C-1,2,3,4,6,9-HxCDF	2.36e6	2.36e6	0.513	NO	10.43	33.71	33.70	1.00	1.00	NO	191.83	100.0	0.250	
39	39 Total Tetra-Dioxins		2.74e6			10.43	24.62		0.00		NO	0.34645		0.035	0.52417
40	40 Total Penta-Dioxins		2.26e6			10.43	29.96		0.00		NO	0.074560		0.053	0.31926
41	41 Total Hexa-Dioxins		0.00e0			10.43	33.63		0.00		NO	1.1640		0.055	1.2707
42	42 Total Hepta-Dioxins		1.66e6			10.43	37.64		0.00		NO	4.9991		0.264	4.9991
43	43 Total Tetra-Furans		3.37e6			10.43	23.61		0.00		NO	0.12182		0.038	0.31720 P
44	44 1st Func. Penta-Furans		0.00e0			10.43	27.09		0.00		NO	0.097067		0.025	0.0970...
45	45 Total Penta-Furans		0.00e0			10.43	29.27		0.00		NO	0.15462		0.044	0.24937 P
46	46 Total Hexa-Furans		0.00e0			10.43	33.56		0.00		NO	0.29536		0.060	0.55015
47	47 Total Hepta-Furans		0.00e0			10.43	37.83		0.00		NO	0.22053		0.076	0.48003

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-8.qld

Last Altered: Wednesday, March 18, 2020 09:30:17 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 09:38:42 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21

Tetra-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	26.69	1.080	YES	2.68e2	1.20e6	0.000	0.0311
2	1 2,3,7,8-TCDD	25.74	0.321	YES	7.24e2	1.20e6	0.000	0.118
3	39 Total Tetra-Dioxins	25.00	0.805	NO	4.23e2	1.20e6	0.0673	0.0673
4	39 Total Tetra-Dioxins	23.48	0.794	NO	1.74e3	1.20e6	0.279	0.279
5	39 Total Tetra-Dioxins	26.05	0.885	NO	1.90e2	1.20e6	0.000	0.0287

Penta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	31.20	1.107	YES	2.28e2	8.70e5	0.000	0.0293
2	2 1,2,3,7,8-PeCDD	30.80	0.458	YES	1.99e2	8.70e5	0.000	0.0448
3	40 Total Penta-Dioxins	29.03	1.007	YES	6.49e2	8.70e5	0.000	0.0916
4	40 Total Penta-Dioxins	28.56	0.554	NO	3.05e2	8.70e5	0.0746	0.0746
5	40 Total Penta-Dioxins	30.03	0.771	YES	4.29e2	8.70e5	0.000	0.0790

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	3 1,2,3,4,7,8-HxCDD	34.27	1.652	YES	7.51e2	9.56e5	0.000	0.107
2	41 Total Hexa-Dioxins	33.51	1.232	NO	1.87e3	1.09e6	0.361	0.361
3	41 Total Hexa-Dioxins	33.28	1.288	NO	4.34e2	1.09e6	0.0823	0.0823
4	41 Total Hexa-Dioxins	32.71	1.164	NO	3.63e3	1.09e6	0.720	0.720

Hepta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.06	1.035	NO	1.01e4	8.49e5	2.49	2.49
2	42 Total Hepta-Dioxins	37.02	1.067	NO	1.04e4	8.49e5	2.51	2.51

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-8.qld

Last Altered: Wednesday, March 18, 2020 09:30:17 Pacific Daylight Time
 Printed: Wednesday, March 18, 2020 09:38:42 Pacific Daylight Time

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21

Tetra-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	26.57	1.002	YES	3.89e2	1.47e6	0.000	0.0488
2	43 Total Tetra-Furans	26.41	0.814	NO	4.16e2	1.47e6	0.0658	0.0658
3	8 2,3,7,8-TCDF	24.78	0.857	NO	3.64e2	1.47e6	0.0560	0.0560
4	43 Total Tetra-Furans	23.80	0.606	YES	6.25e2	1.47e6	0.000	0.102
5	43 Total Tetra-Furans	20.62	1.010	YES	3.58e2	1.47e6	0.000	0.0446

P
P

Penta-Furans function 1

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.86	1.604	NO	8.48e2	1.83e6	0.0971	0.0971

Penta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	30.50	1.391	NO	2.24e2	1.80e6	0.0263	0.0263
2	45 Total Penta-Furans	29.83	1.114	YES	6.06e2	1.83e6	0.000	0.0703
3	9 1,2,3,7,8-PeCDF	29.49	1.320	NO	6.69e2	1.86e6	0.0815	0.0815
4	45 Total Penta-Furans	28.50	2.472	YES	3.36e2	1.83e6	0.000	0.0244
5	45 Total Penta-Furans	30.51	1.516	NO	4.00e2	1.83e6	0.0468	0.0468

P

Hexa-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	12 1,2,3,6,7,8-HxCDF	33.47	1.330	NO	6.89e2	8.19e5	0.114	0.114
2	11 1,2,3,4,7,8-HxCDF	33.32	1.110	NO	9.60e2	7.57e5	0.181	0.181
3	46 Total Hexa-Furans	33.08	2.082	YES	3.34e2	7.53e5	0.000	0.0345
4	46 Total Hexa-Furans	32.87	1.488	YES	6.52e2	7.53e5	0.000	0.0944
5	46 Total Hexa-Furans	32.31	0.906	YES	4.22e2	7.53e5	0.000	0.0733
6	46 Total Hexa-Furans	32.17	0.983	YES	3.03e2	7.53e5	0.000	0.0526

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-8.qld

Last Altered: Wednesday, March 18, 2020 09:30:17 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 09:38:42 Pacific Daylight Time

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21

Hepta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	47 Total Hepta-Furans	37.22	1.003	NO	7.45e2	4.66e5	0.221	0.221
2	15 1,2,3,4,6,7,8-HpCDF	36.63	0.829	YES	1.02e3	5.35e5	0.000	0.260

Dataset: Untitled

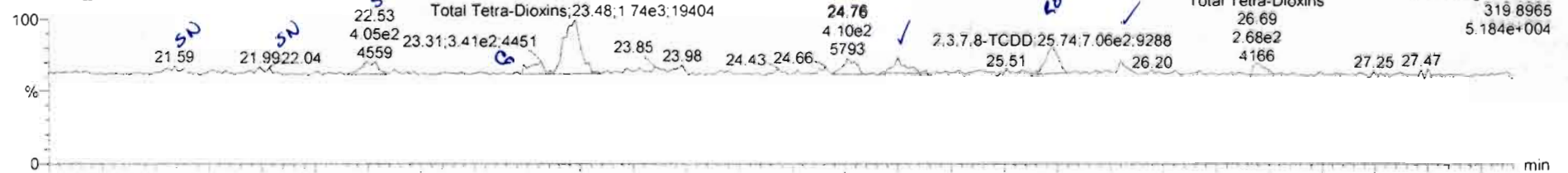
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

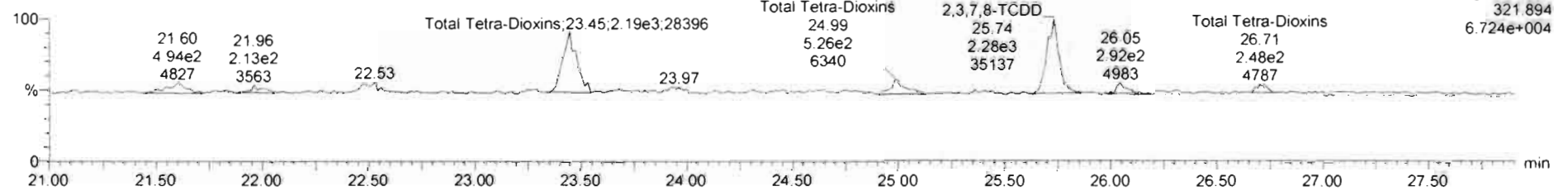
Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

2,3,7,8-TCDD

200223R3_8

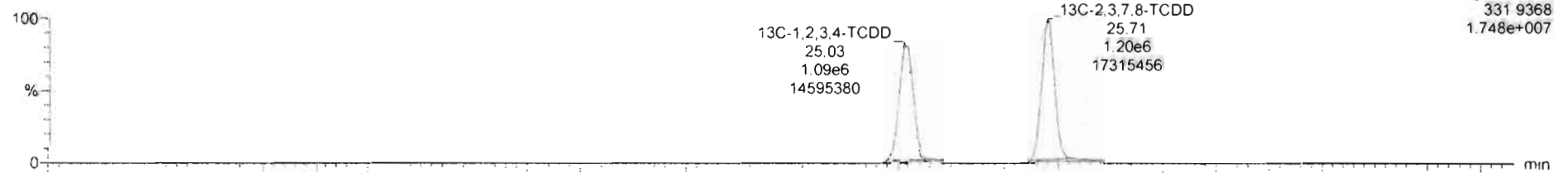


200223R3_8

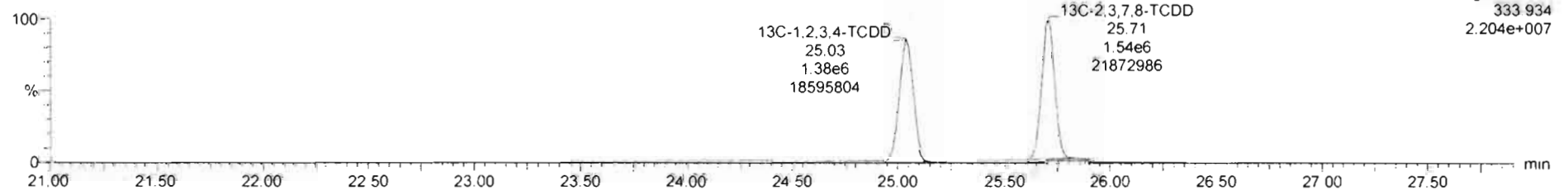


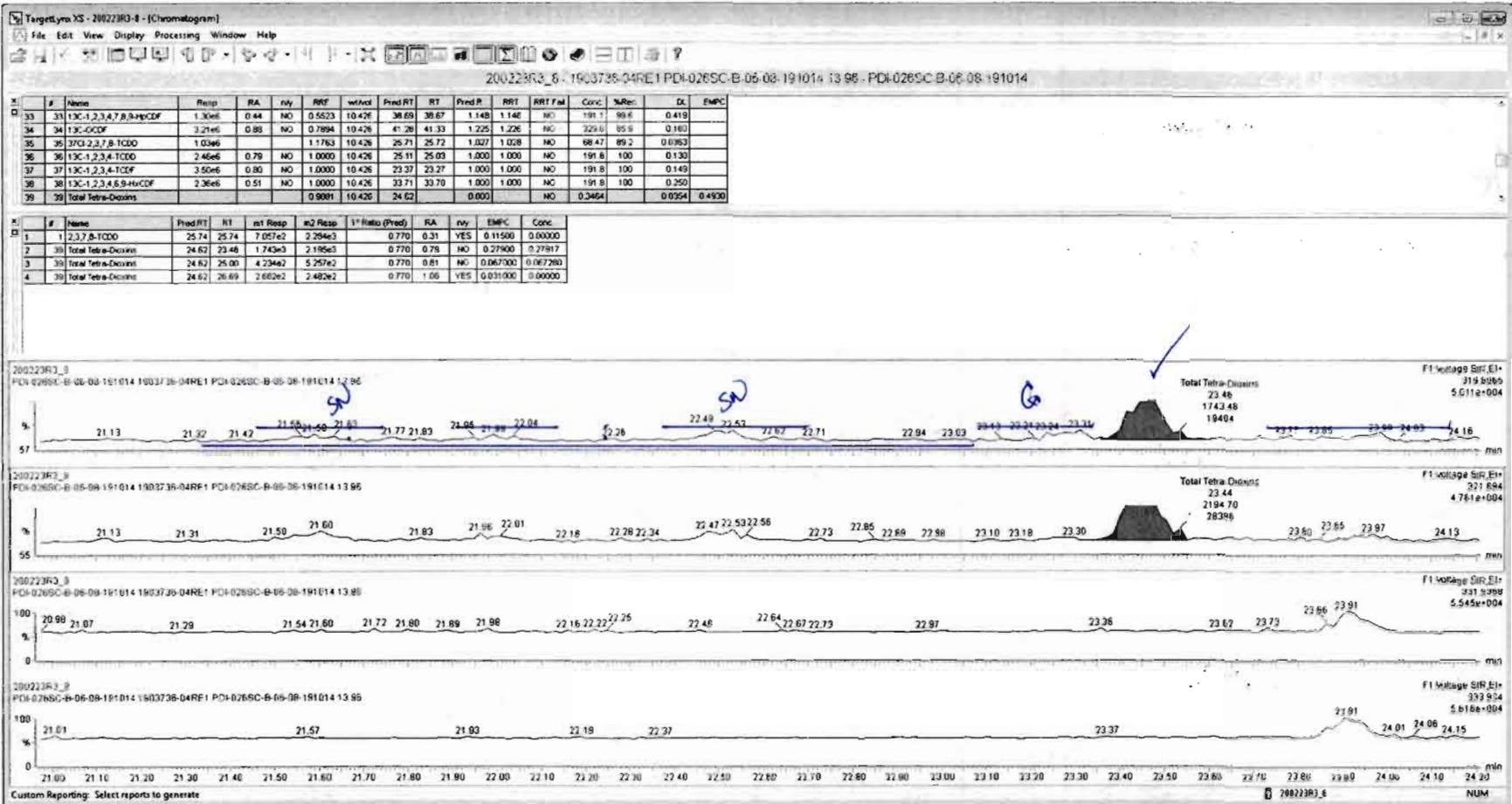
13C-2,3,7,8-TCDD

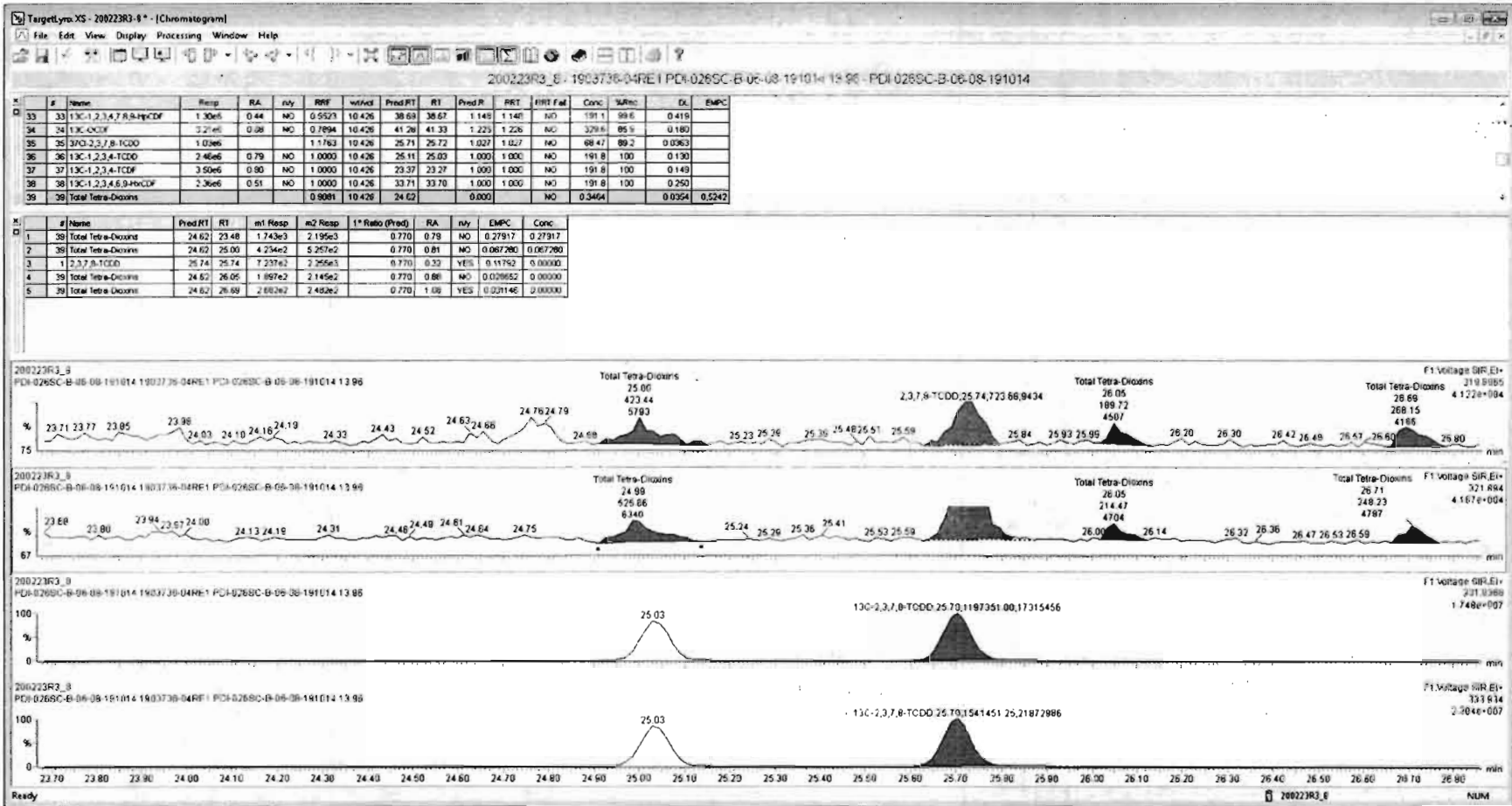
200223R3_8



200223R3_8







Dataset: Untitled

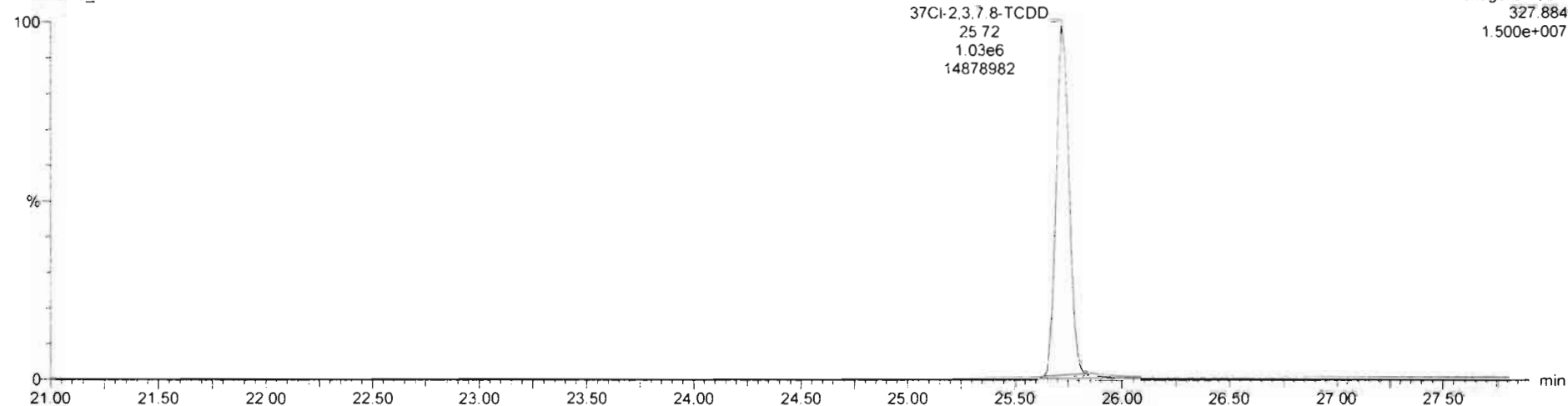
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

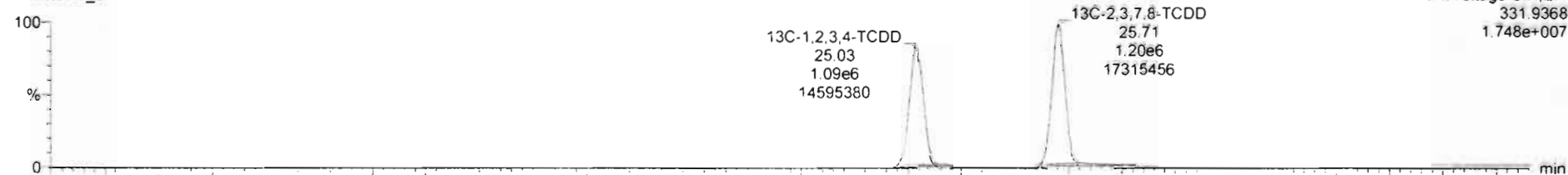
37Cl-2,3,7,8-TCDD

200223R3_8

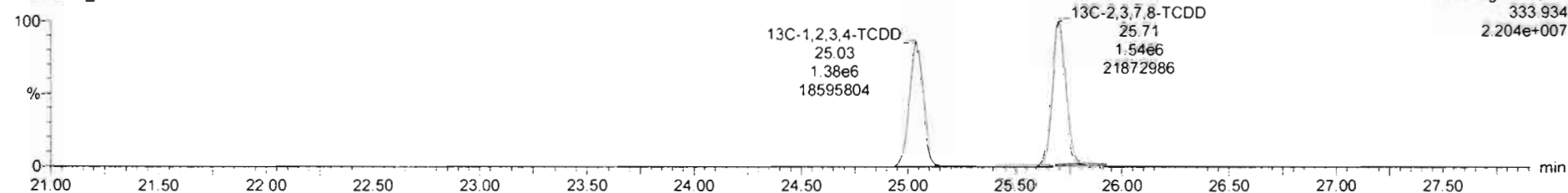


13C-1,2,3,4-TCDD

200223R3_8



200223R3_8



Dataset: Untitled

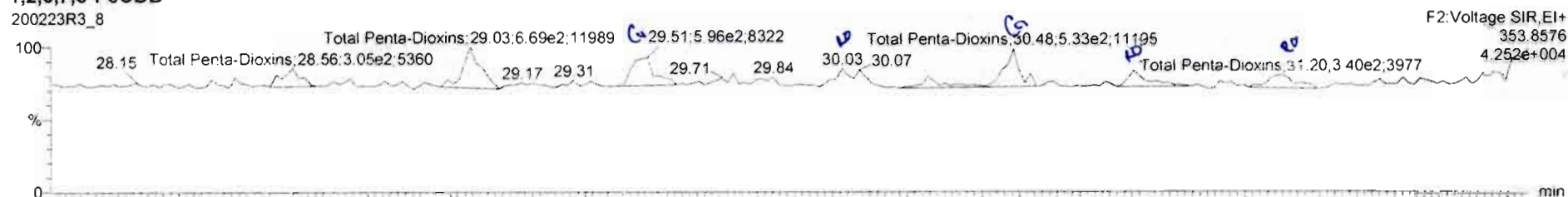
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

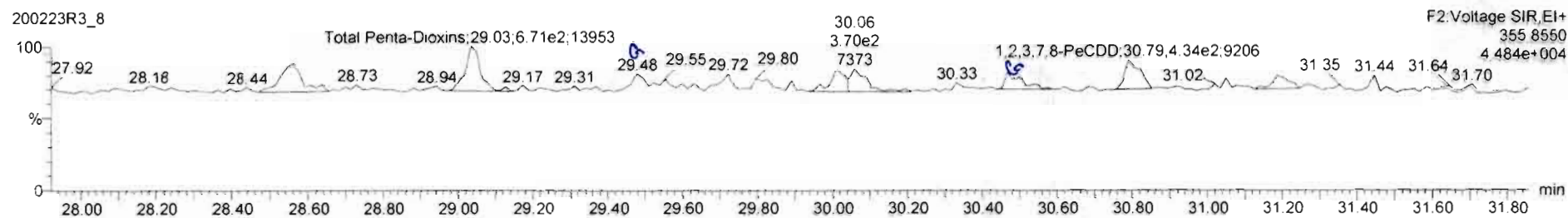
Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

1,2,3,7,8-PeCDD

200223R3_8

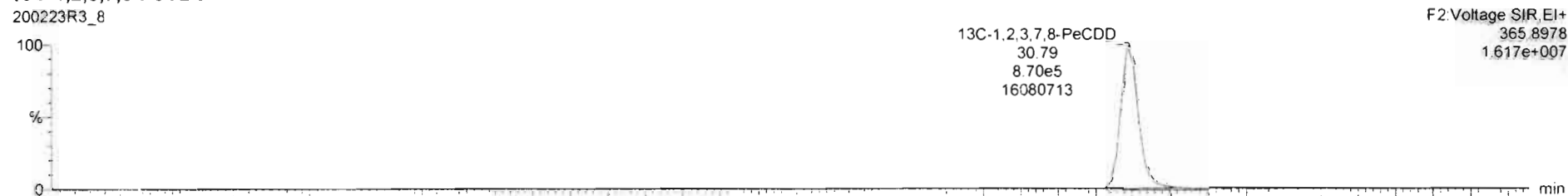


200223R3_8

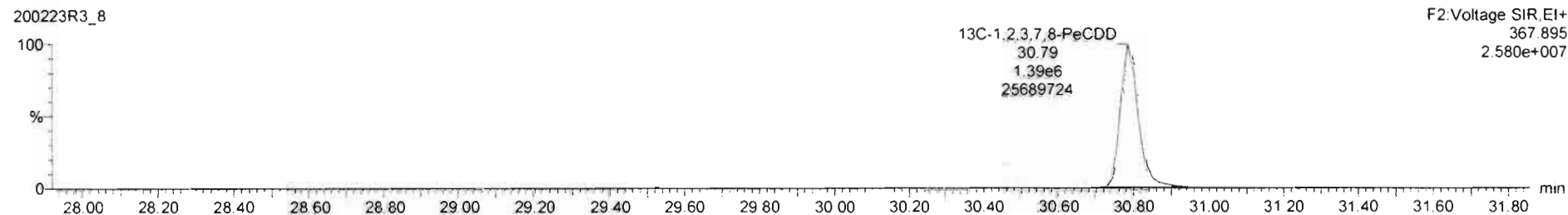


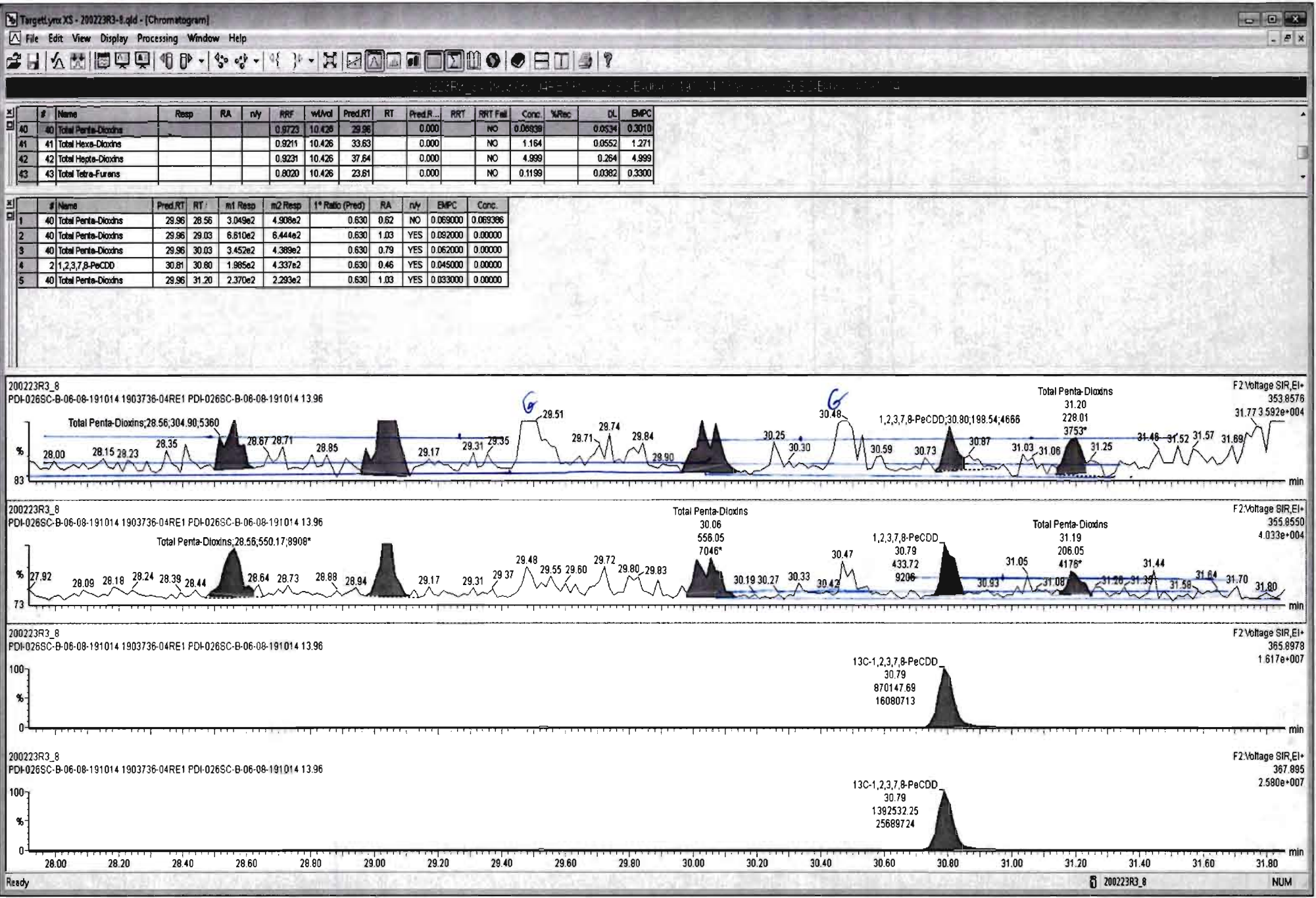
13C-1,2,3,7,8-PeCDD

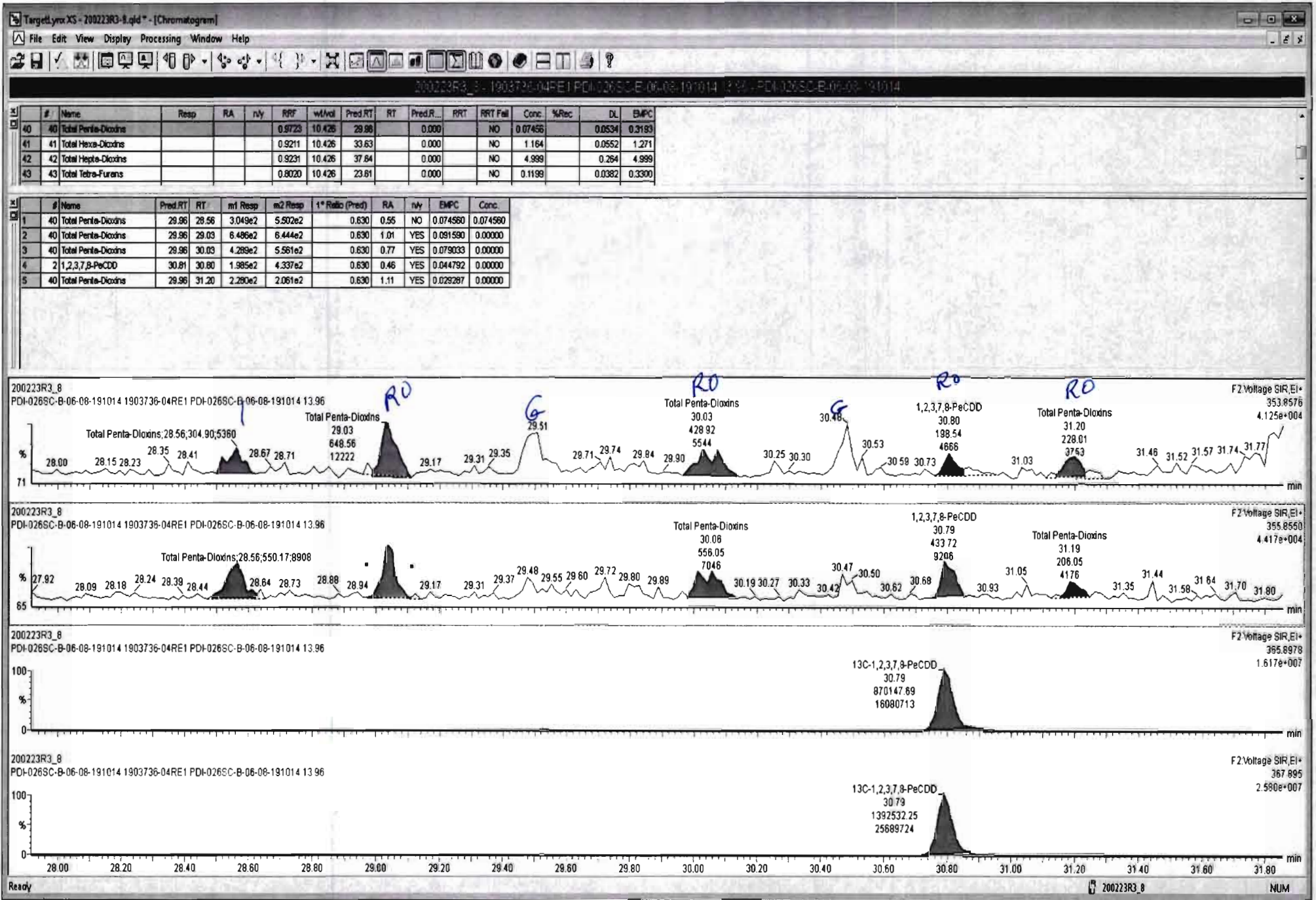
200223R3_8



200223R3_8







Dataset: Untitled

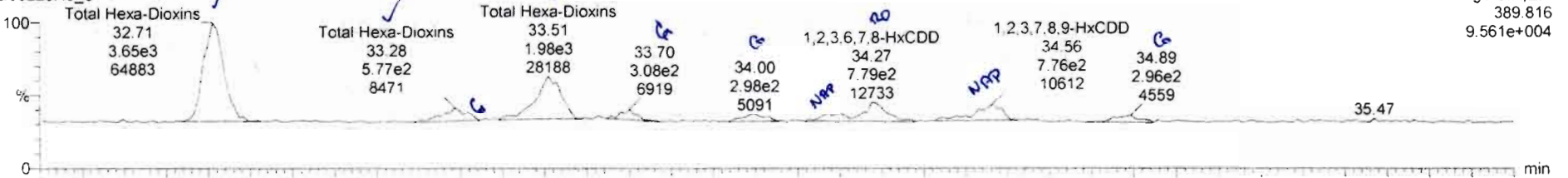
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

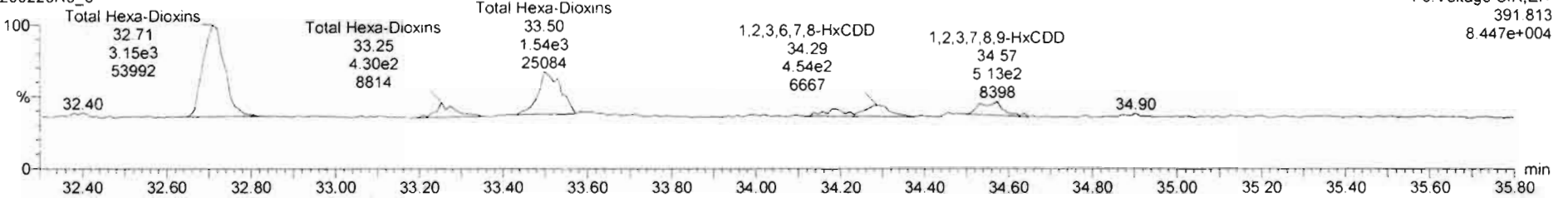
Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

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

200223R3_8

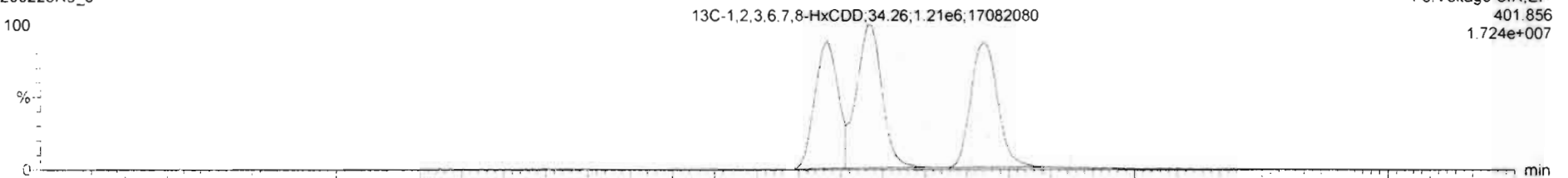


200223R3_8

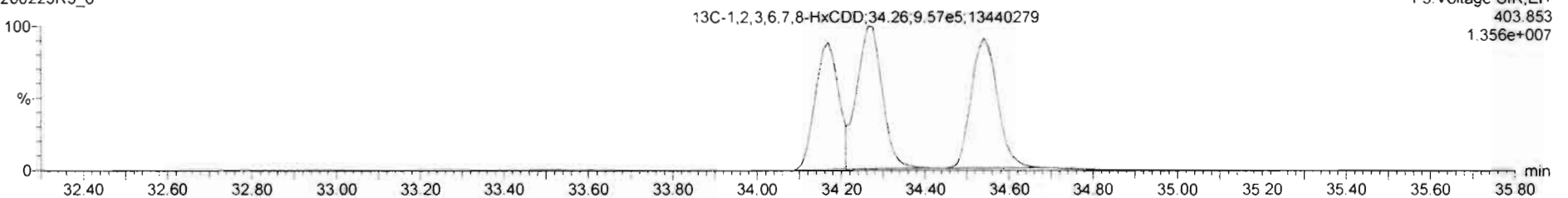


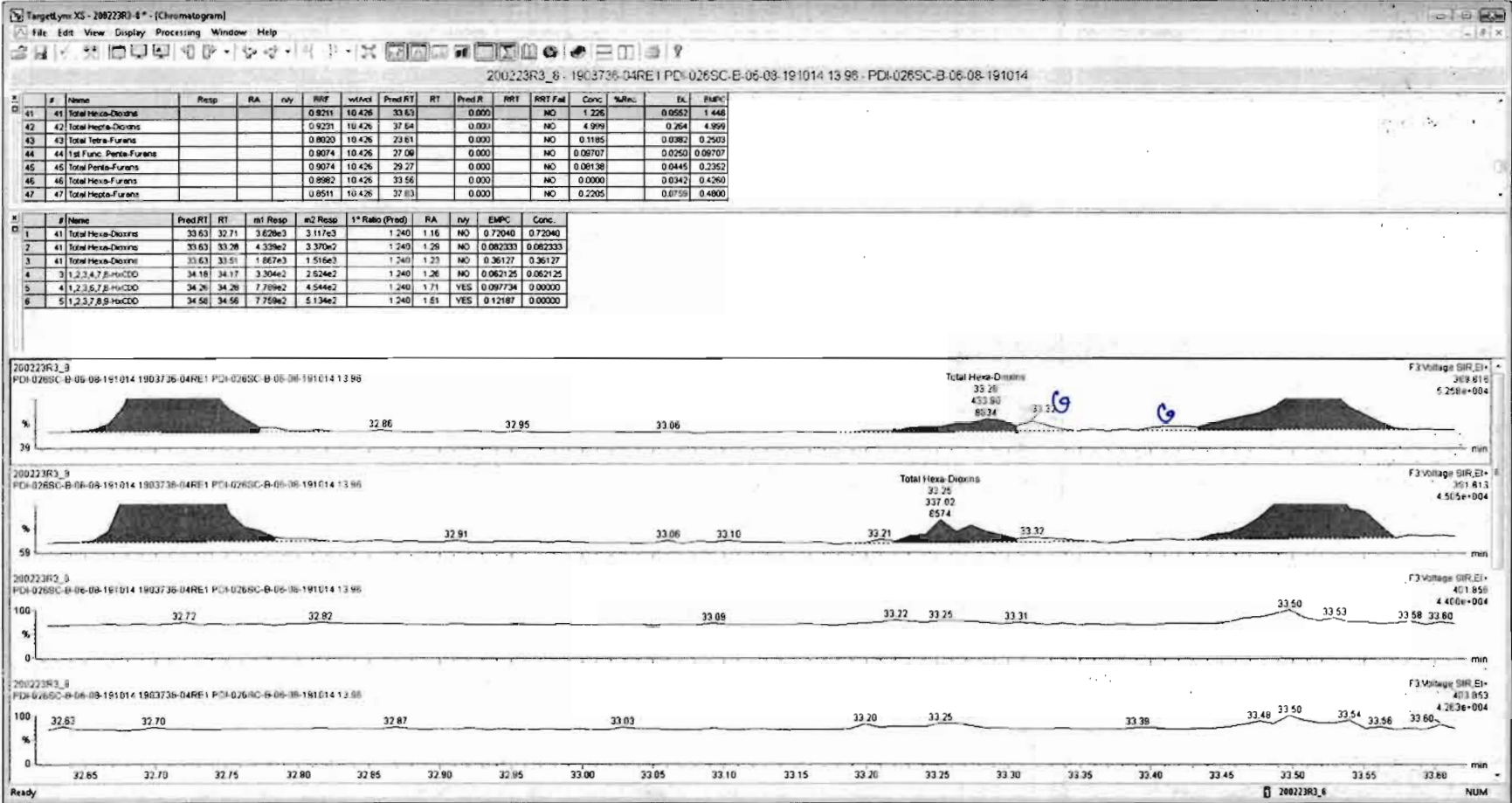
13C-1,2,3,4,7,8-HxCDD

200223R3_8



200223R3_8





Dataset: Untitled

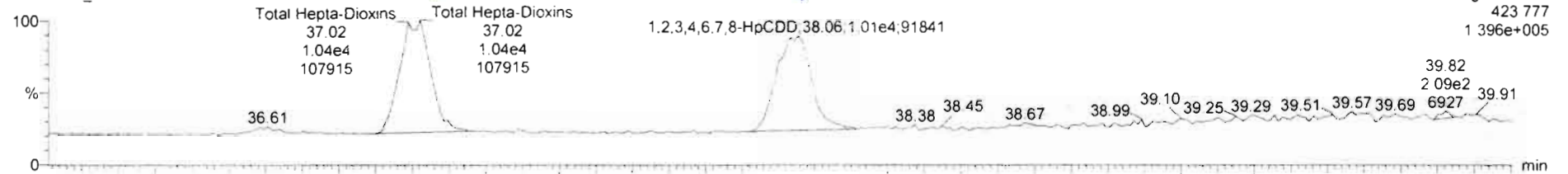
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

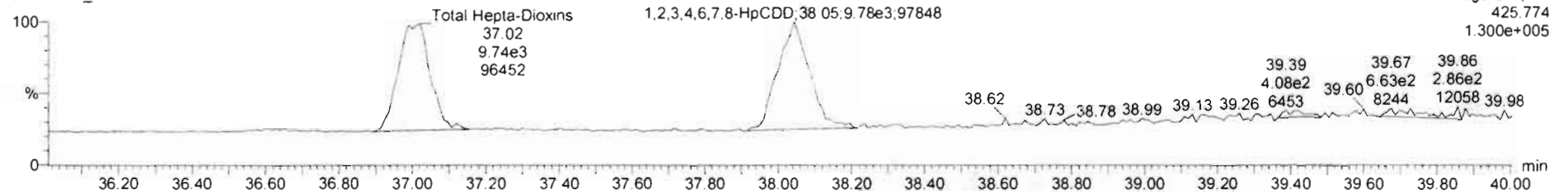
Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

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

200223R3_8

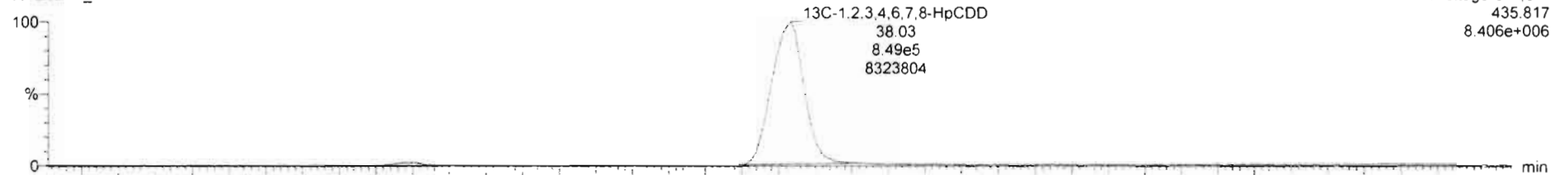


200223R3_8

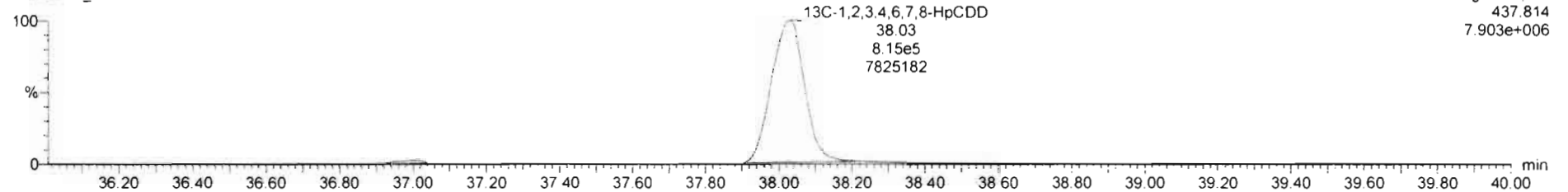


13C-1,2,3,4,6,7,8-HpCDD

200223R3_8



200223R3_8

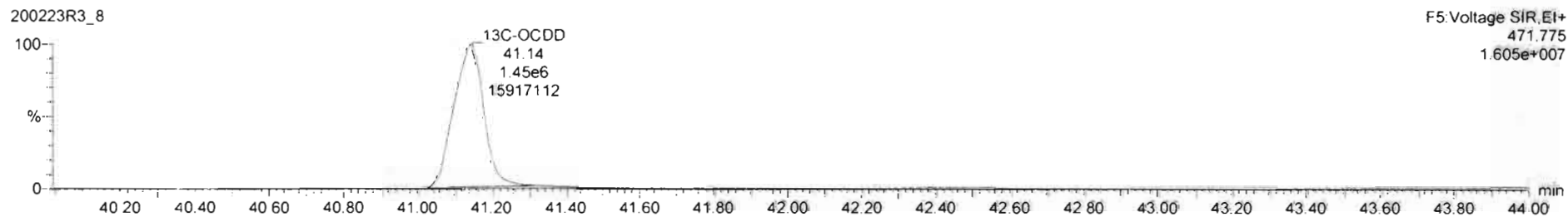
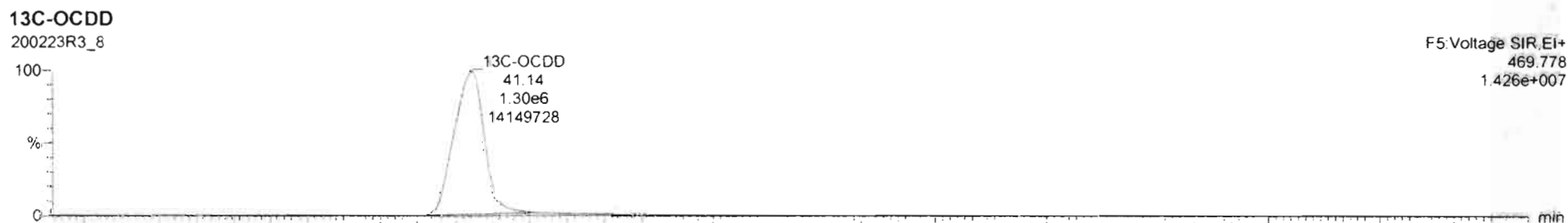
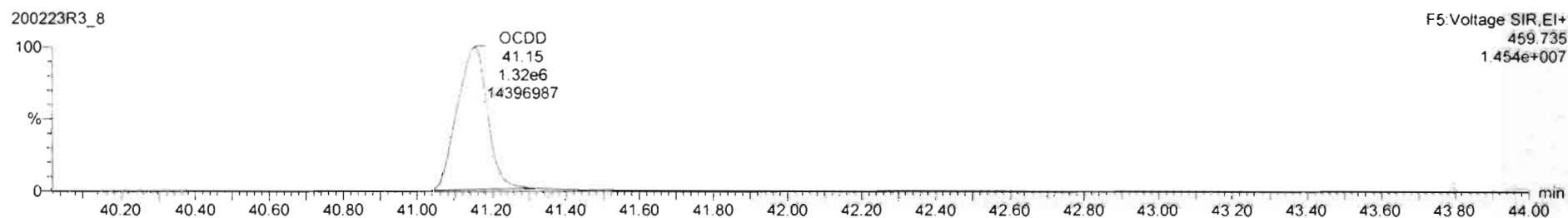
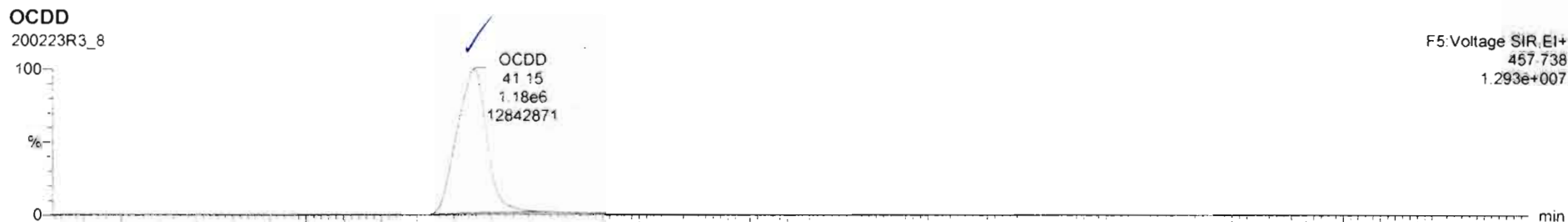


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

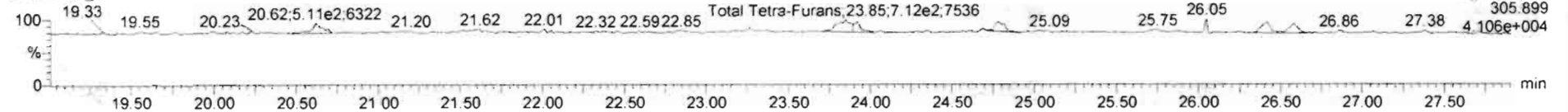
Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

2,3,7,8-TCDF

200223R3_8

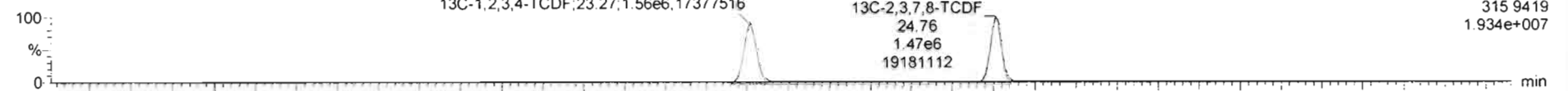


200223R3_8

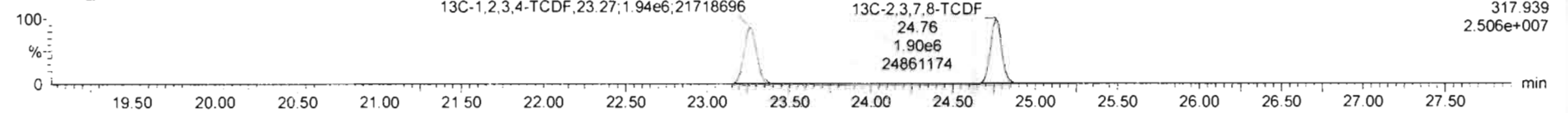


13C-2,3,7,8-TCDF

200223R3_8

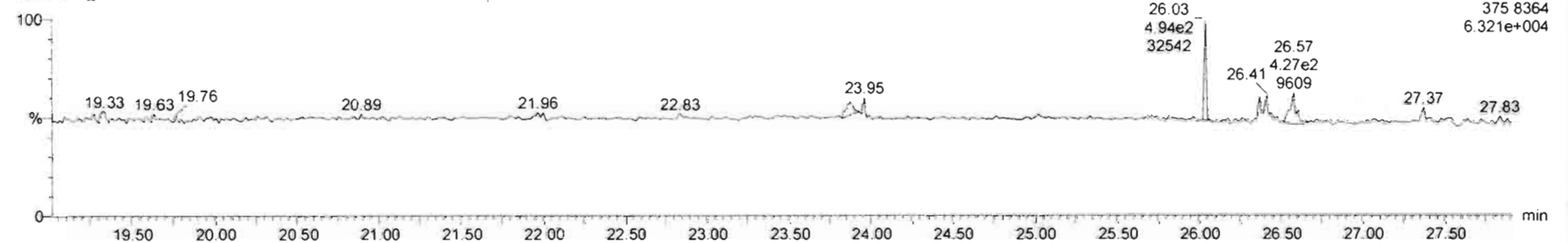


200223R3_8



DPE1

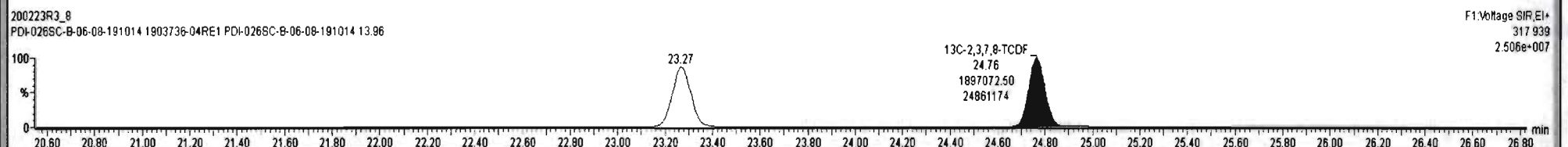
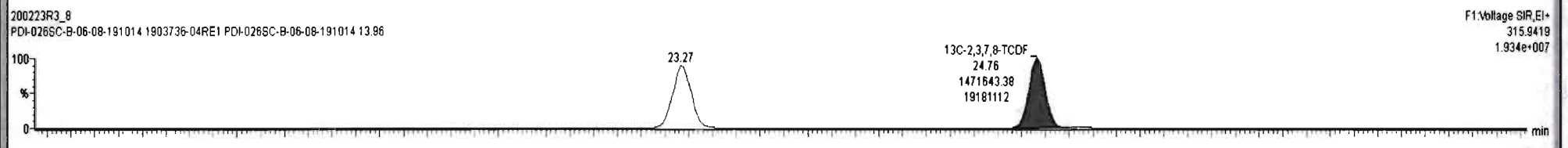
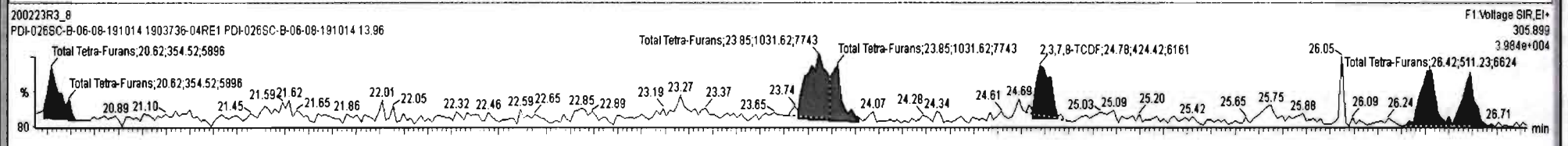
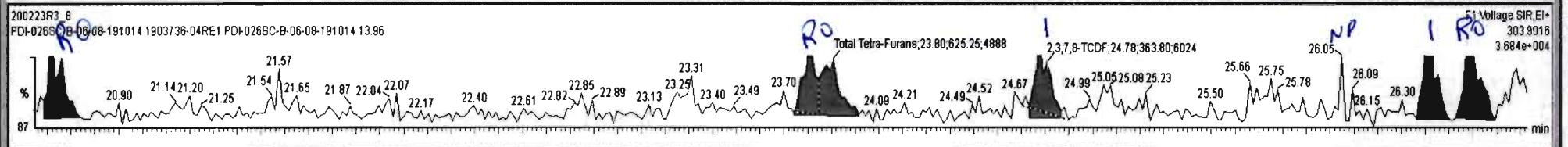
200223R3_8



200223R3_8 - 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9723	10.426	29.96		0.000		NO	0.07456		0.0534	0.3193
41	Total Hexa-Dioxins				0.9211	10.426	33.63		0.000		NO	1.164		0.0552	1.271
42	Total Hepta-Dioxins				0.9231	10.426	37.64		0.000		NO	4.999		0.264	4.999
43	Total Tetra-Furans				0.8020	10.426	23.81		0.000		NO	0.1218		0.0382	0.3172

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	20.62	3.582e2	3.545e2	0.770	1.01	YES	0.044557	0.00000
2	43 Total Tetra-Furans	23.61	23.80	6.253e2	1.032e3	0.770	0.61	YES	0.10205	0.00000
3	8 2,3,7,8-TCDF	24.79	24.78	3.638e2	4.244e2	0.770	0.88	NO	0.055968	0.055968
4	43 Total Tetra-Furans	23.61	26.41	4.161e2	5.112e2	0.770	0.81	NO	0.065847	0.065847
5	43 Total Tetra-Furans	23.61	26.57	3.889e2	3.881e2	0.770	1.00	YES	0.048774	0.00000



Dataset: Untitled

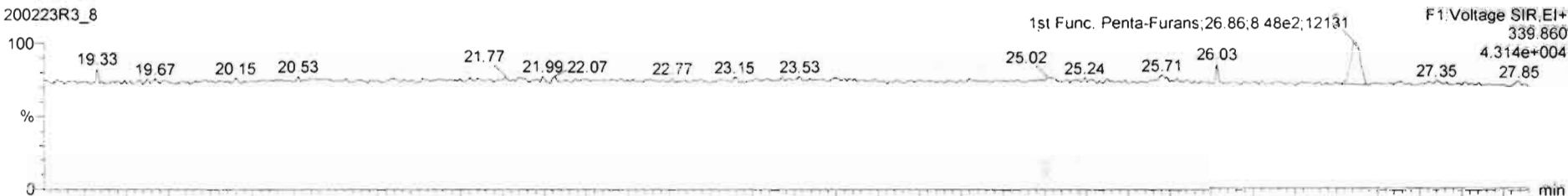
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

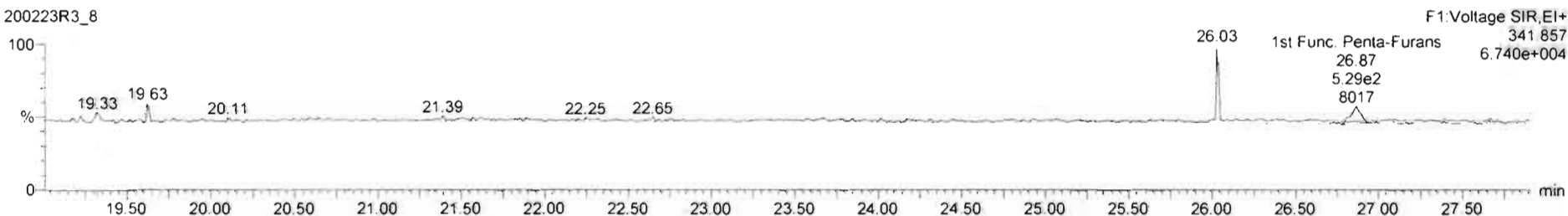
Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

1st Func. Penta-Furans

200223R3_8

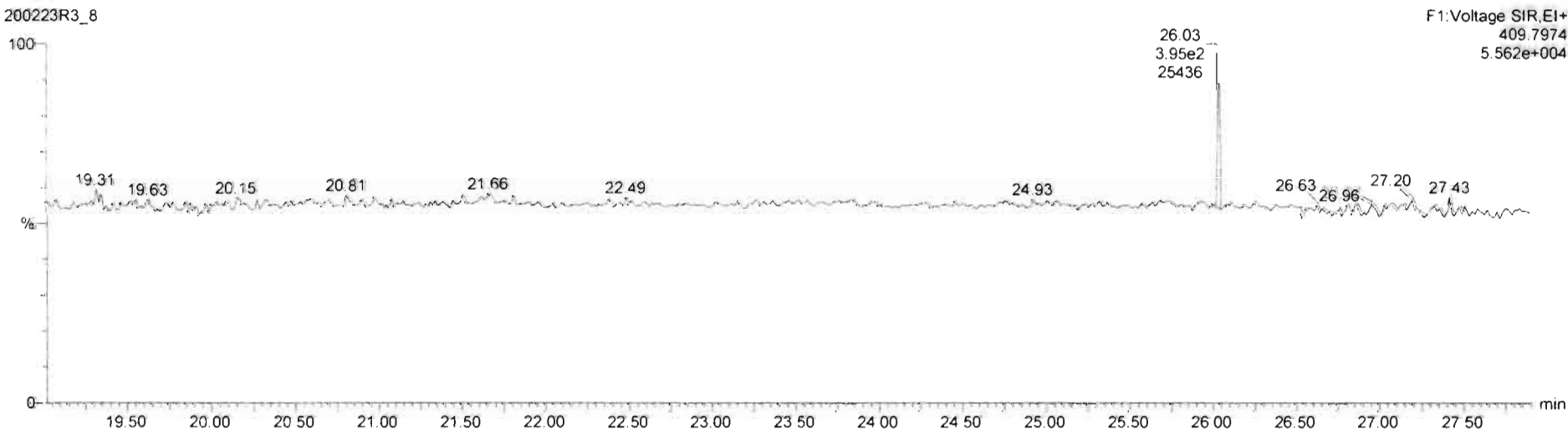


200223R3_8



DPE6

200223R3_8

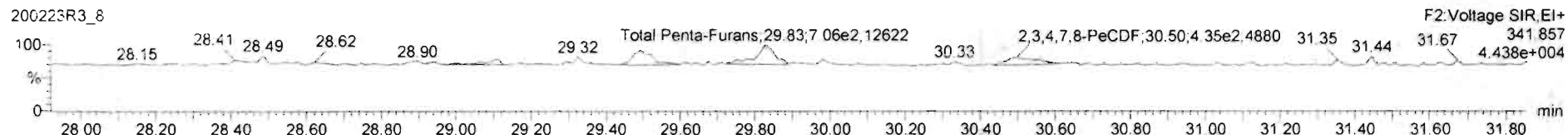
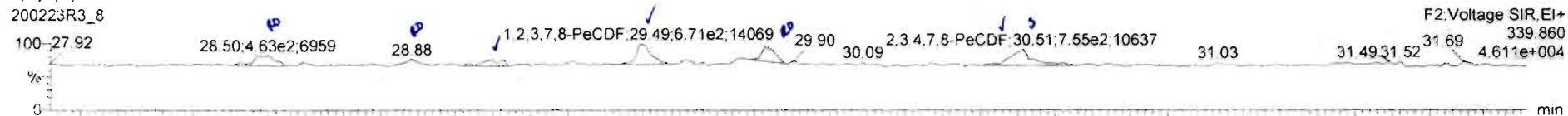


Dataset: Untitled

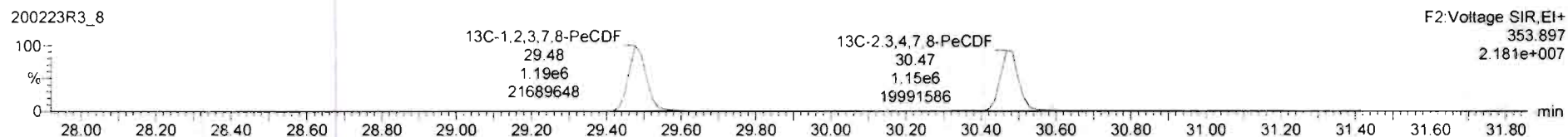
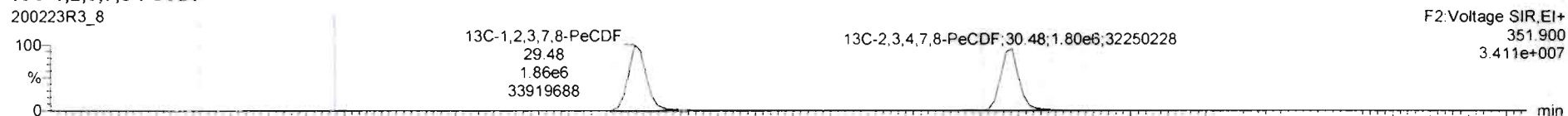
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

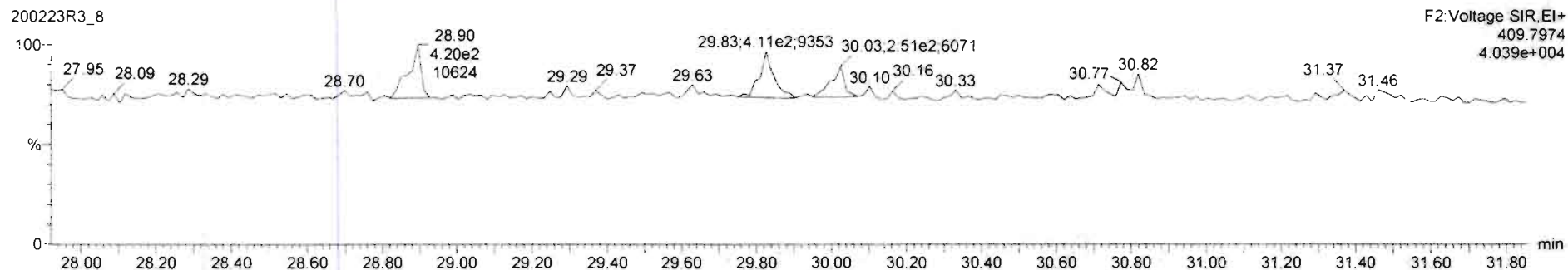
1,2,3,7,8-PeCDF

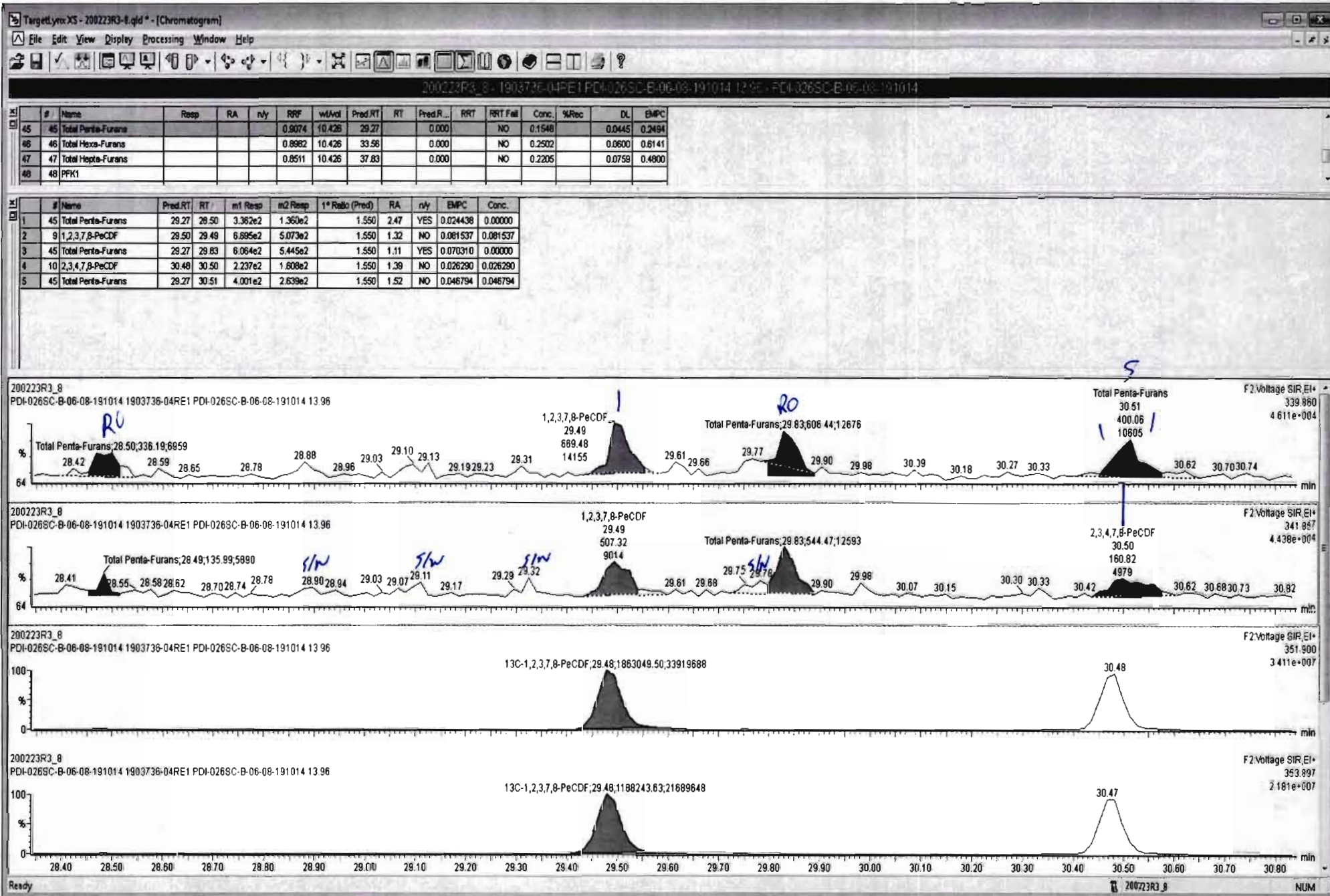


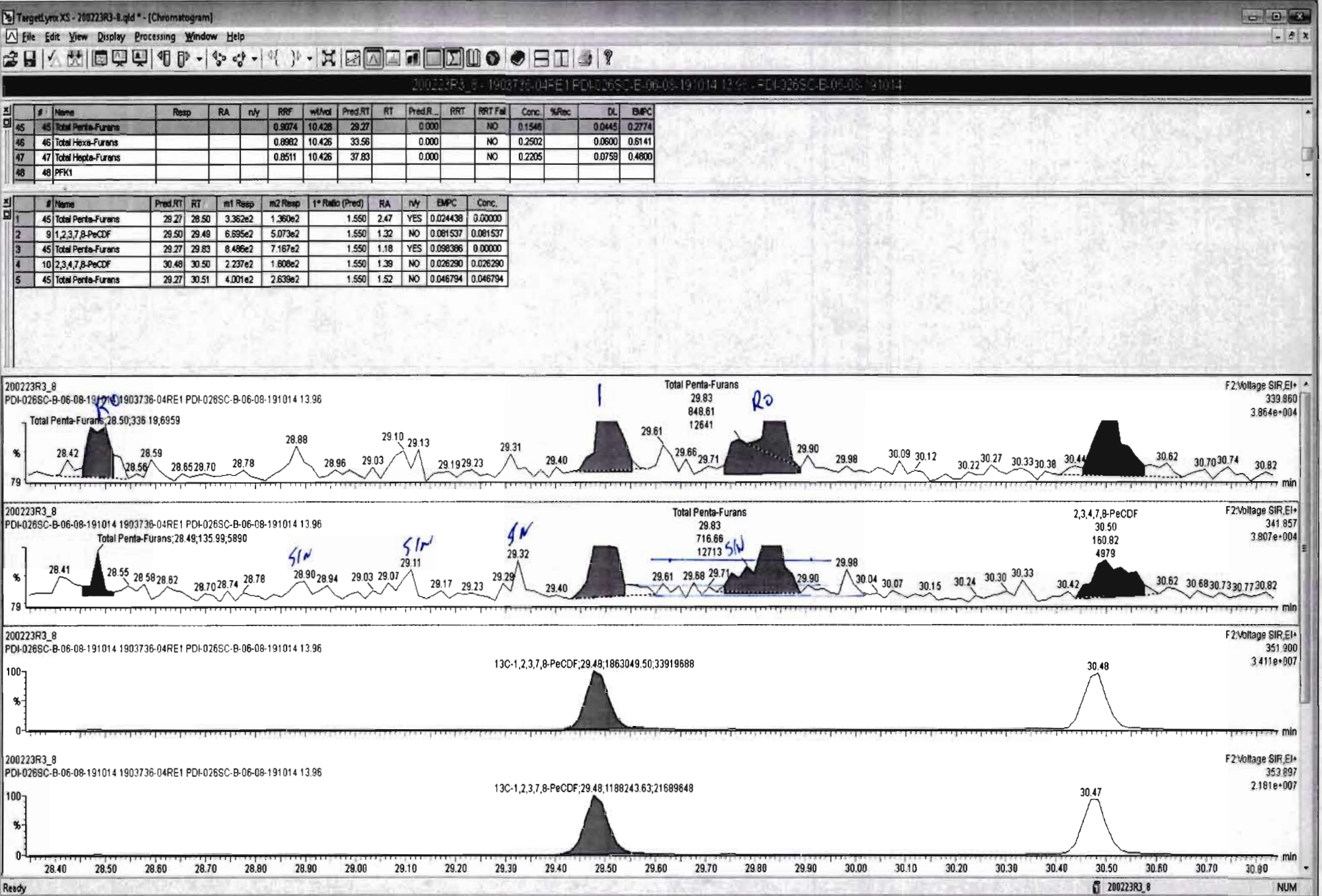
13C-1,2,3,7,8-PeCDF

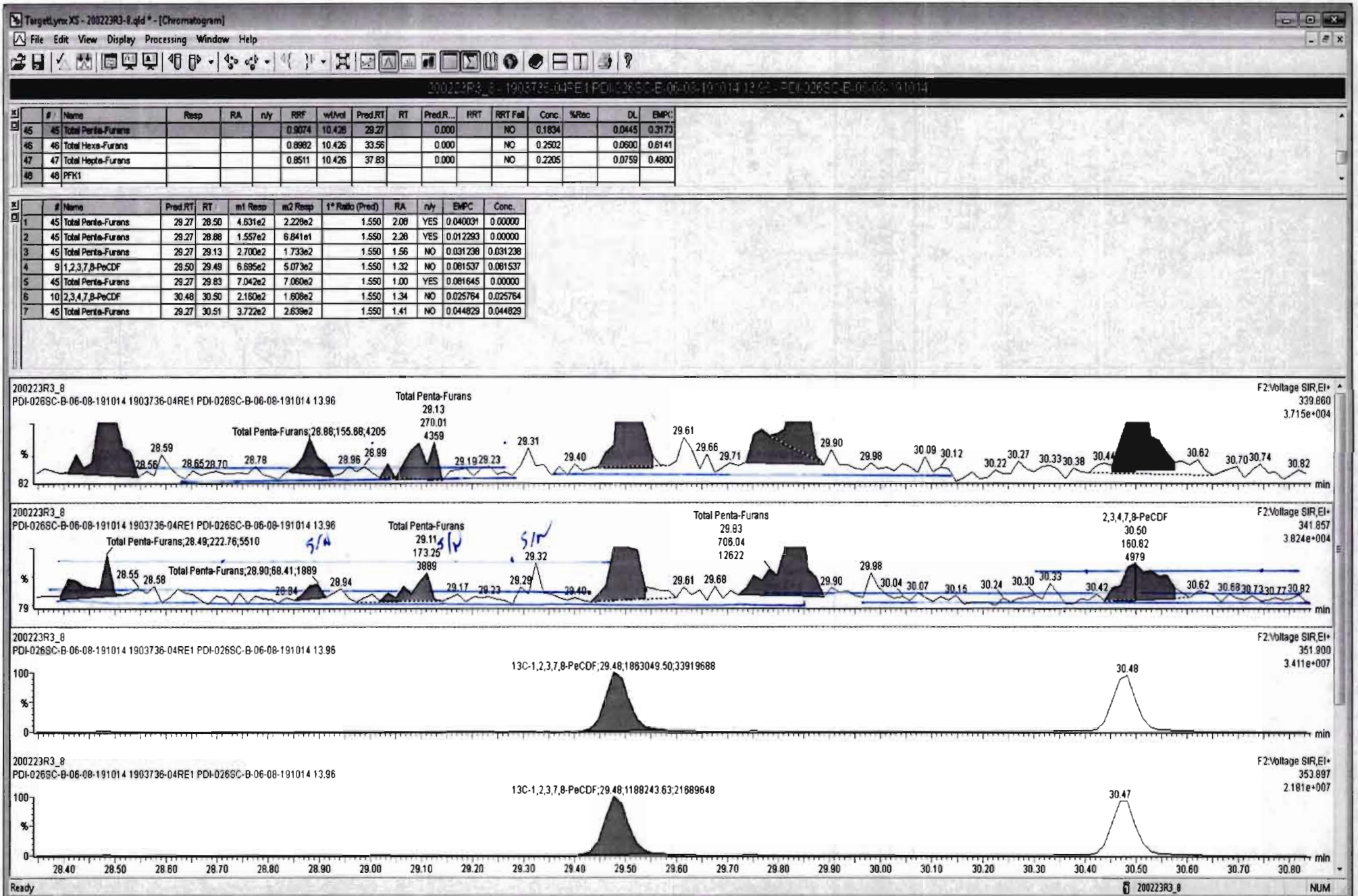


DPE2







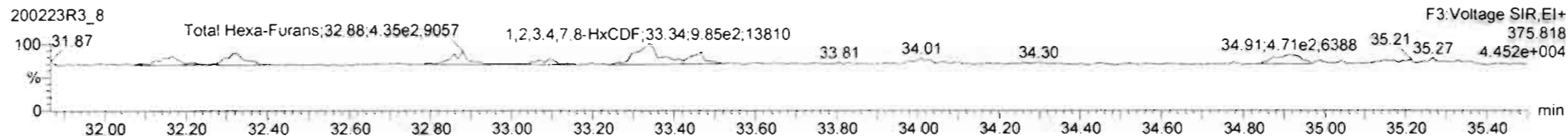


Dataset: Untitled

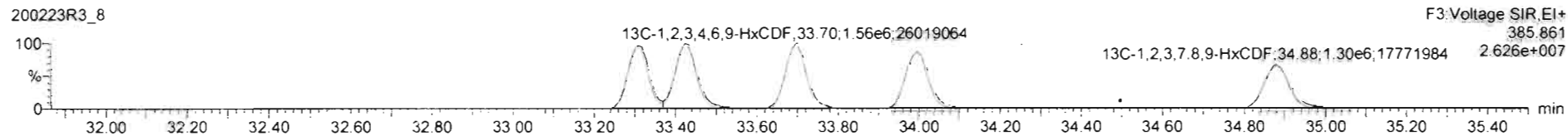
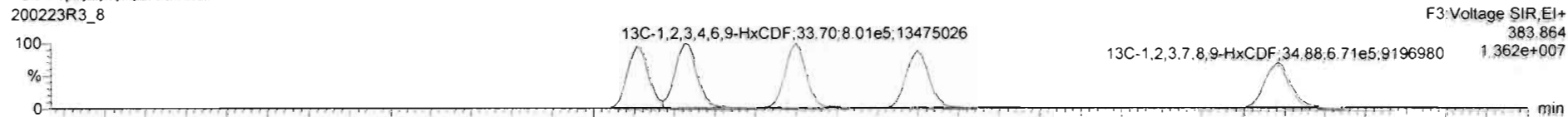
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

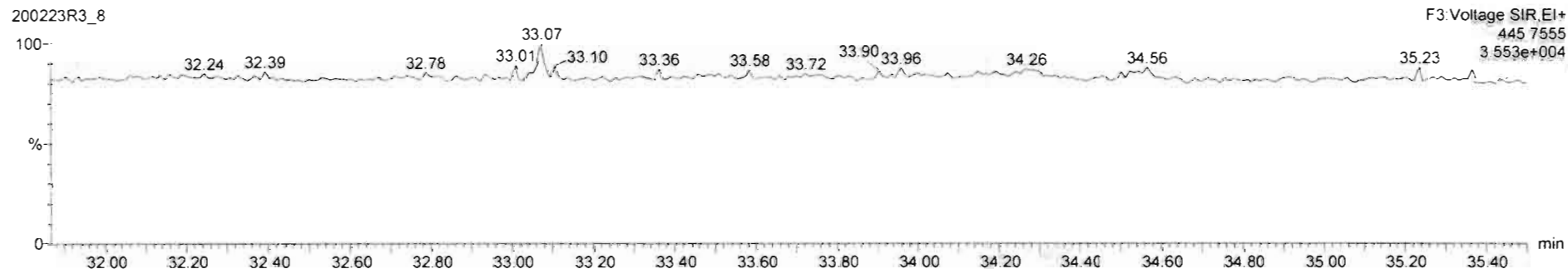
1,2,3,4,7,8-HxCDF



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

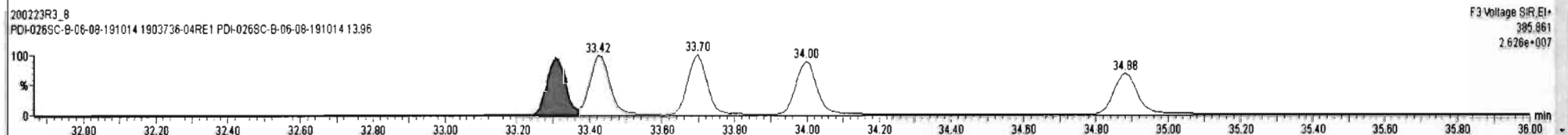
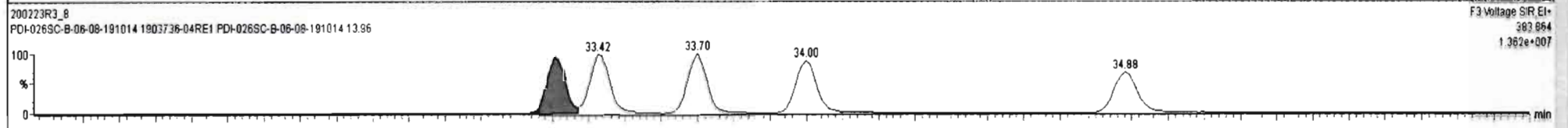
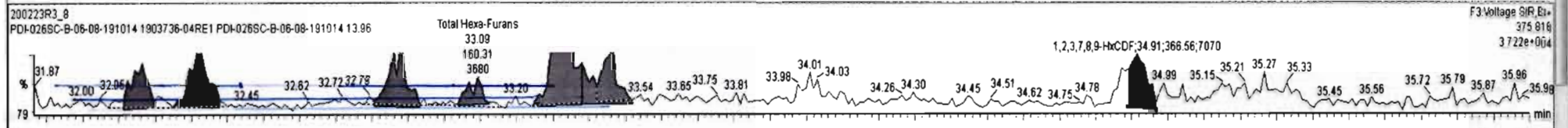
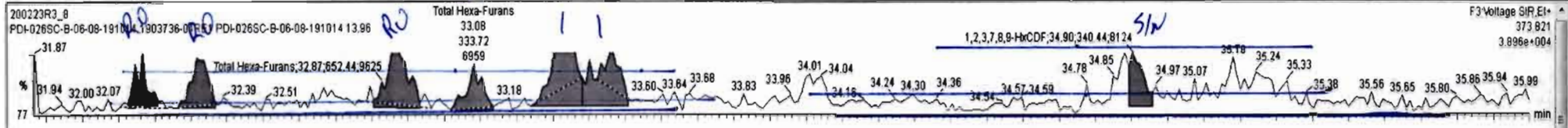


DPE3



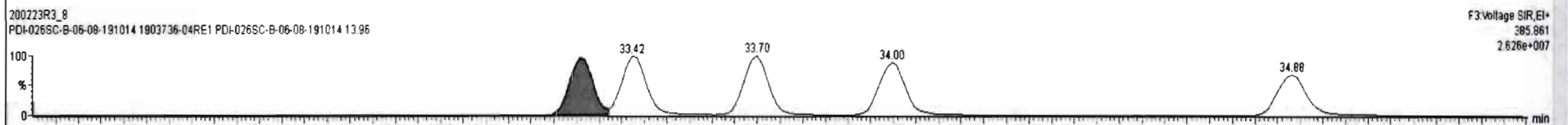
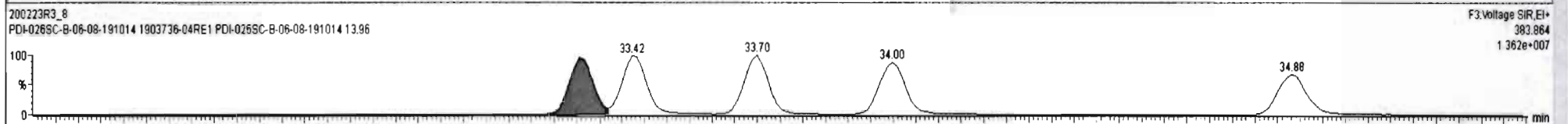
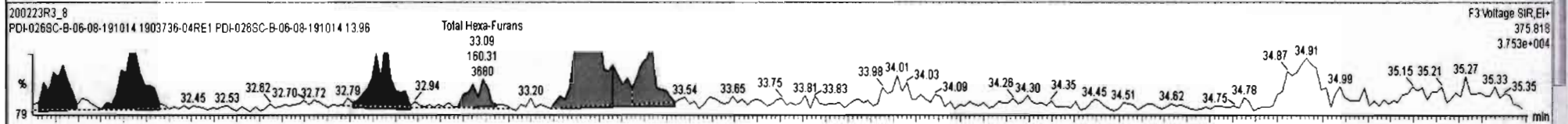
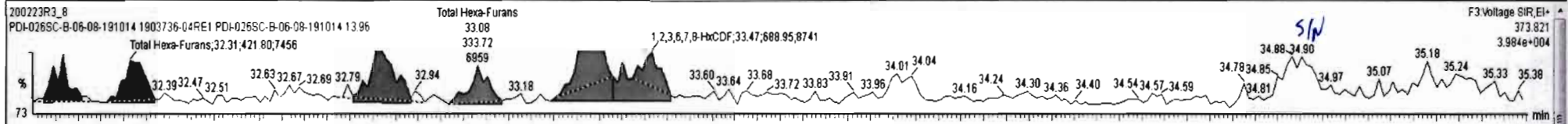
Name	Resp	RA	n/y	RRF	w/w%	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.91	10.426			0.155	0.0445	0.249	
46 Total Hexa-Furans				0.90	10.426			0.295	0.0600	0.620	

Name	RT	m1 Resp	m2 Resp	1* Ratio (P)	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.17	3.025e2	3.079e2	1.240	0.98	YES	0.053000	0.00000
2 Total Hexa-Furans	32.31	4.218e2	4.654e2	1.240	0.91	YES	0.073000	0.00000
3 Total Hexa-Furans	32.87	6.524e2	4.384e2	1.240	1.49	YES	0.094000	0.00000
4 Total Hexa-Furans	33.08	3.337e2	1.603e2	1.240	2.08	YES	0.035000	0.00000
5 1,2,3,4,7,8-HxCDF	33.32	9.804e2	8.654e2	1.240	1.11	NO	0.18100	0.18124
6 1,2,3,6,7,8-HxCDF	33.47	8.890e2	5.180e2	1.240	1.33	NO	0.11400	0.11412
7 1,2,3,7,8,9-HxCDF	34.90	3.404e2	3.686e2	1.240	0.93	YES	0.070000	0.00000



Name	Resp	RA	n/y	R/R	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.91	10.426			0.155		0.0445	0.249
46 Total Hexa-Furans				0.90	10.426			0.295		0.0600	0.550

Name	RT	m1 Resp	m2 Resp	* Ratio (P)	RA	r/y	EMPC	Conc.
1 Total Hexa-Furans	32.17	3.025e2	3.078e2	1.240	0.98	YES	0.052551	0.00000
2 Total Hexa-Furans	32.31	4.219e2	4.654e2	1.240	0.91	YES	0.073274	0.00000
3 Total Hexa-Furans	32.87	6.524e2	4.384e2	1.240	1.49	YES	0.094432	0.00000
4 Total Hexa-Furans	33.08	3.337e2	1.603e2	1.240	2.08	YES	0.034532	0.00000
5 1,2,3,4,7,8-HxCDF	33.32	9.604e2	8.654e2	1.240	1.11	NO	0.18124	0.18124
6 1,2,3,6,7,8-HxCDF	33.47	6.890e2	5.180e2	1.240	1.33	NO	0.11412	0.11412



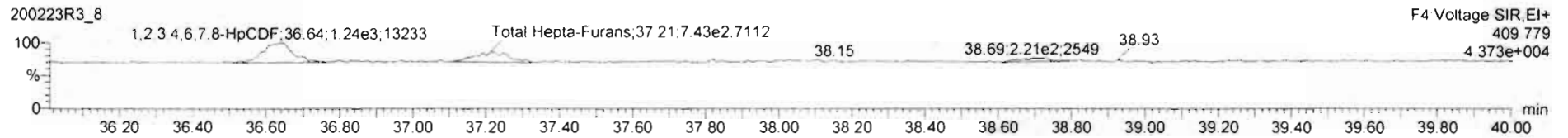
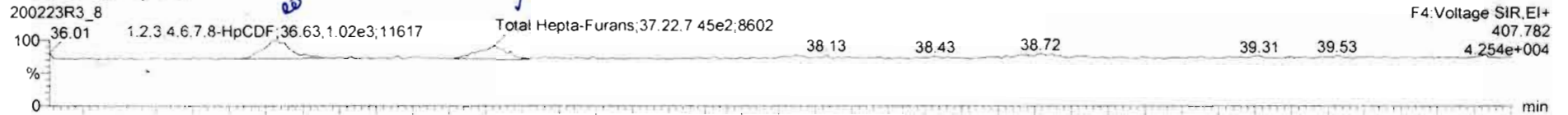
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

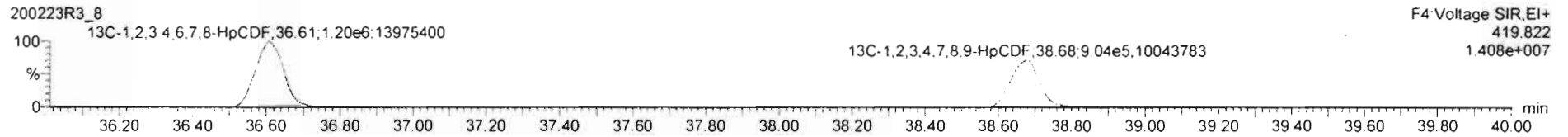
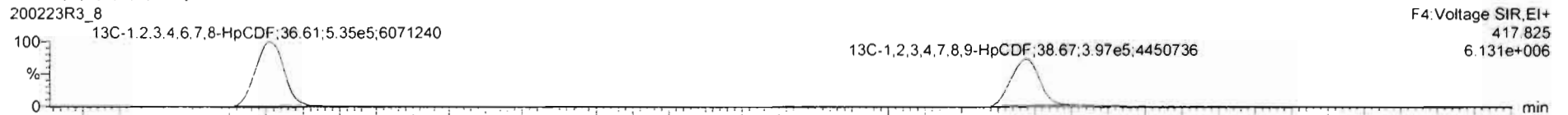
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014

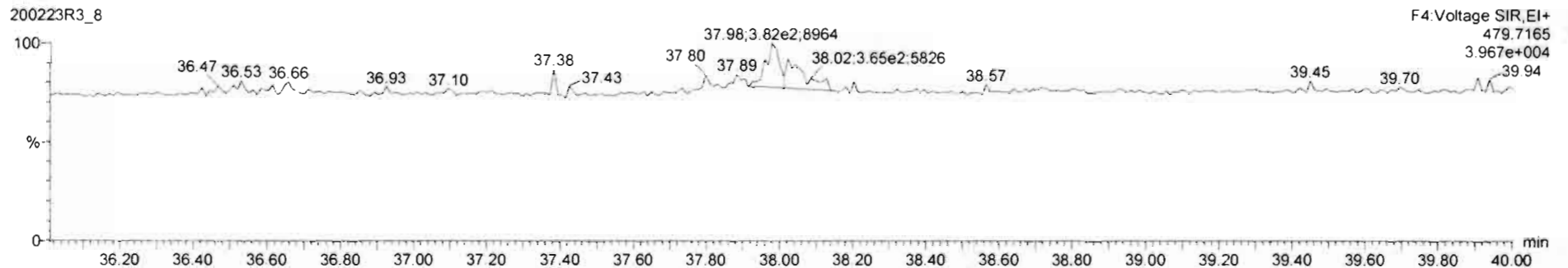
1,2,3,4,6,7,8-HpCDF

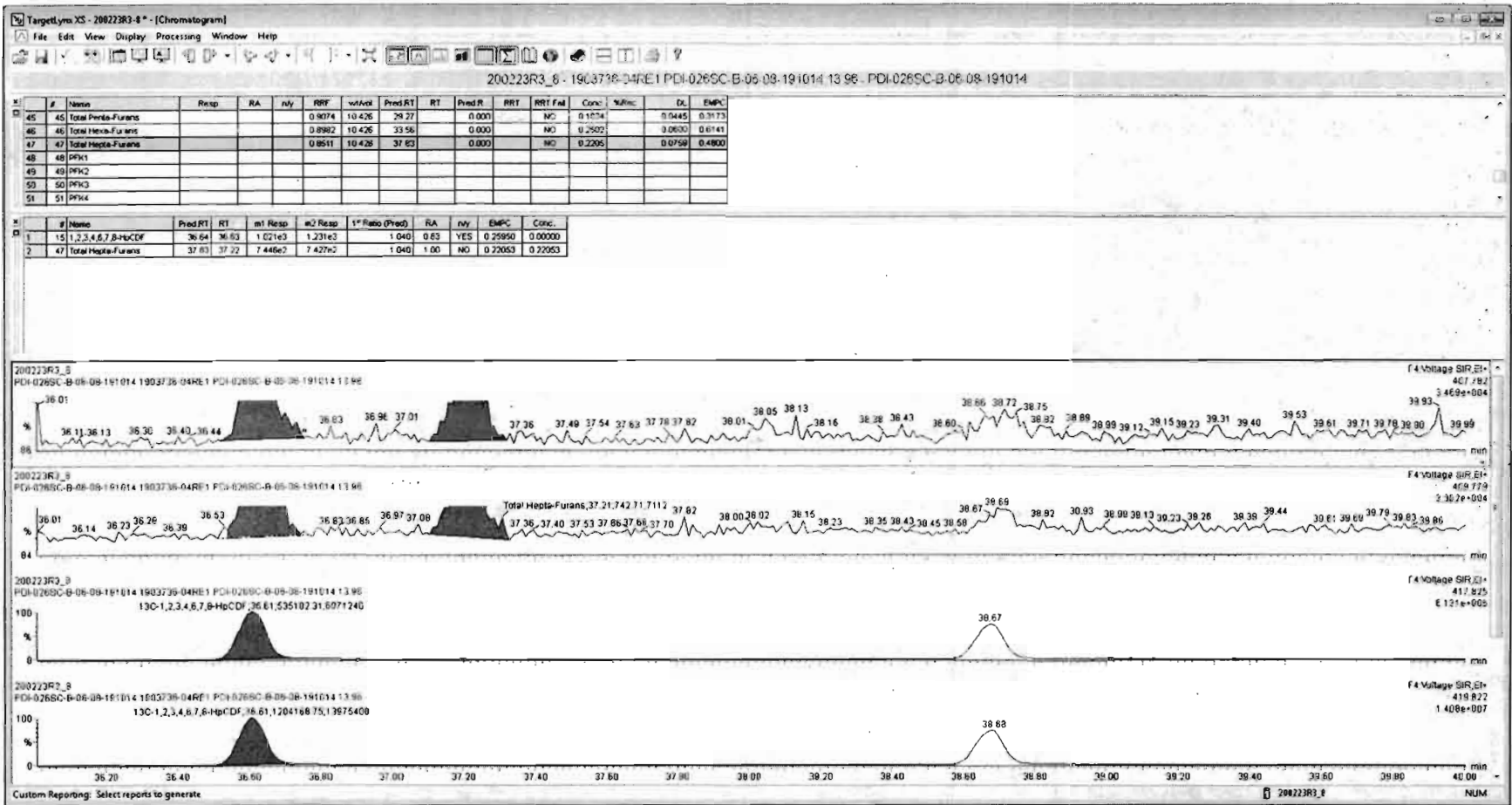


13C-1,2,3,4,6,7,8-HpCDF



DPE4



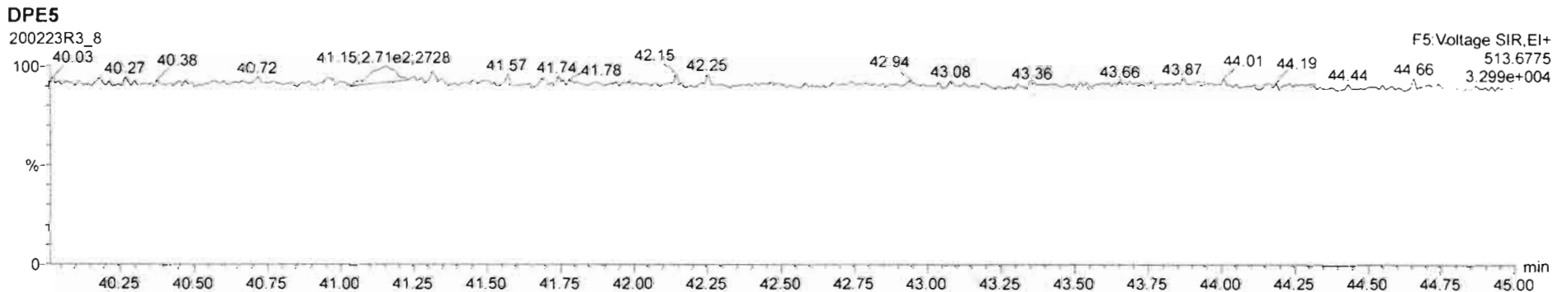
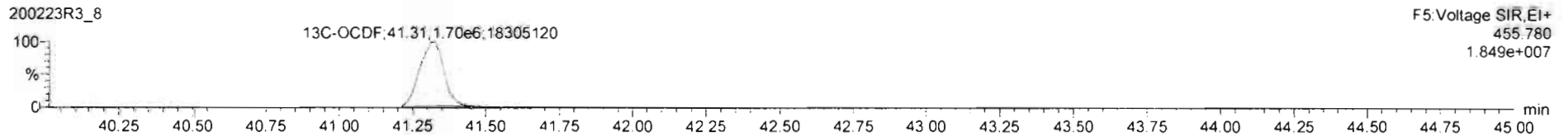
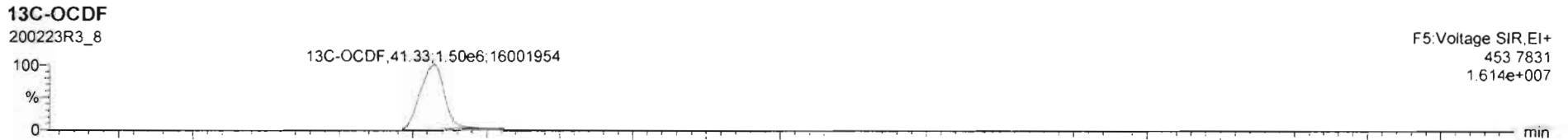
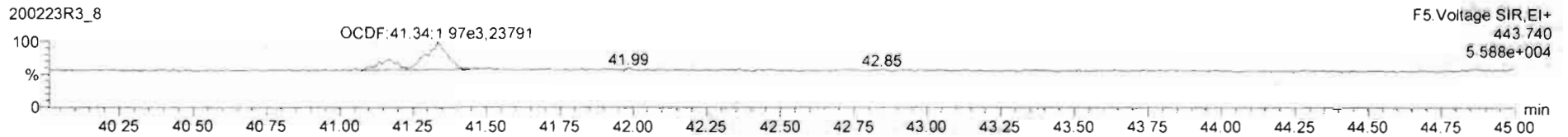
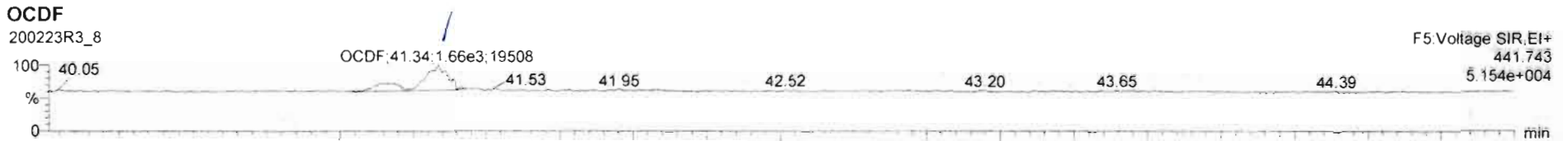


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

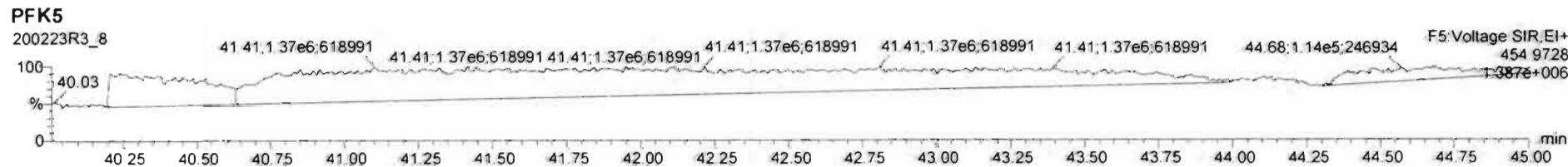
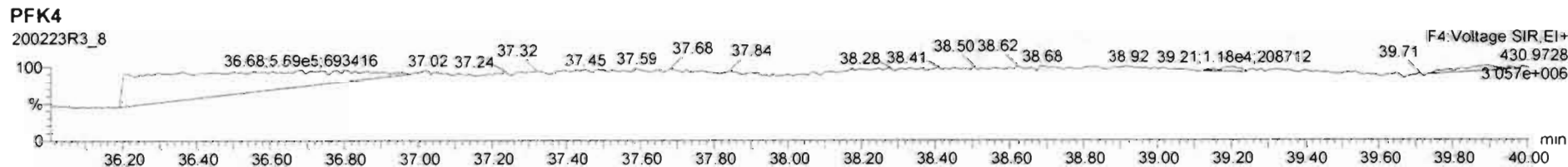
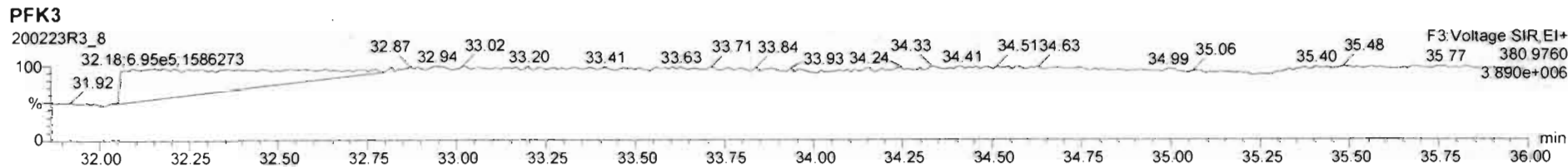
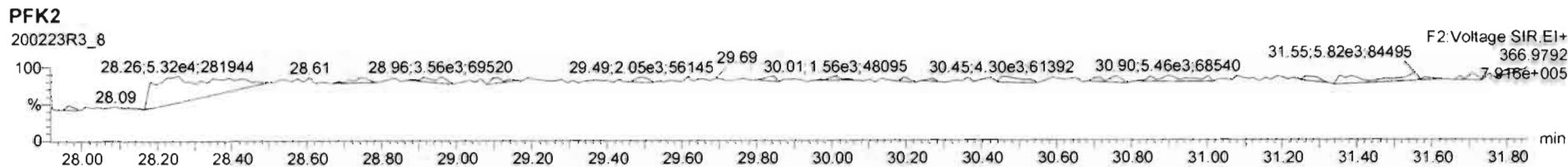
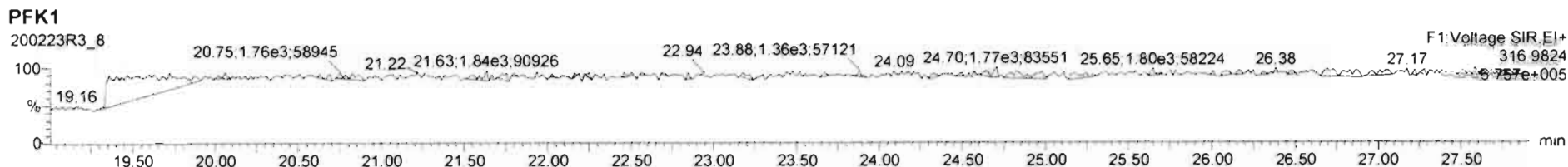
Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_8, Date: 24-Feb-2020, Time: 09:07:21, ID: 1903736-04RE1 PDI-026SC-B-06-08-191014 13.96, Description: PDI-026SC-B-06-08-191014



Dataset: U:\VG12.PRO\Results\200223R3\200223R3-9a.qld

Last Altered: Friday, March 13, 2020 13:51:02 Pacific Daylight Time
Printed: Friday, March 13, 2020 13:54:28 Pacific Daylight Time

dy 03/13-2020
du 3/17/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

#	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	14114.762	0.681	NO	0.988	10.115	25.75	25.74	1.00	1.00	NO	1.067		0.0486	1.067
2	2 1,2,3,7,8-PeCDD	13303.115	0.655	NO	0.972	10.115	30.83	30.82	1.00	1.00	NO	1.253		0.0570	1.253
3	3 1,2,3,4,7,8-HxCDD	9339.432	1.217	NO	1.07	10.115	34.19	34.20	1.00	1.00	NO	1.034		0.109	1.034
4	4 1,2,3,6,7,8-HxCDD	73627.328	1.244	NO	0.921	10.115	34.28	34.30	1.00	1.00	NO	7.805		0.110	7.805
5	5 1,2,3,7,8,9-HxCDD	28504.012	1.189	NO	0.918	10.115	34.59	34.56	1.00	1.00	NO	3.248		0.121	3.248
6	6 1,2,3,4,6,7,8-HpCDD	705263.094	1.020	NO	0.923	10.115	38.06	38.07	1.00	1.00	NO	92.59		0.459	92.59
7	7 OCDD	4875162.5...	0.884	NO	0.975	10.115	41.17	41.18	1.00	1.00	NO	745.4		0.266	745.4
8	8 2,3,7,8-TCDF	690494.625	0.761	NO	0.802	10.115	24.80	24.81	1.00	1.00	NO	51.46	(45.78)	0.0830	51.46
9	9 1,2,3,7,8-PeCDF	1103000.4...	1.536	NO	0.907	10.115	29.51	29.51	1.00	1.00	NO	78.87		0.122	78.87
10	10 2,3,4,7,8-PeCDF	142723.989	1.481	NO	0.952	10.115	30.51	30.50	1.00	1.00	NO	10.46		0.124	10.46
11	11 1,2,3,4,7,8-HxCDF	943026.126	1.215	NO	0.862	10.115	33.33	33.34	1.00	1.00	NO	100.1		0.117	100.1
12	12 1,2,3,6,7,8-HxCDF	282177.157	1.208	NO	0.841	10.115	33.45	33.45	1.00	1.00	NO	28.06		0.118	28.06
13	13 2,3,4,6,7,8-HxCDF	68415.978	1.211	NO	0.898	10.115	34.04	34.03	1.00	1.00	NO	6.950		0.128	6.950
14	14 1,2,3,7,8,9-HxCDF	34341.998	1.139	NO	0.858	10.115	34.89	34.92	1.00	1.00	NO	4.024		0.169	4.024
15	15 1,2,3,4,6,7,8-HpCDF	233588.617	1.000	NO	0.851	10.115	36.67	36.64	1.00	1.00	NO	31.55		0.155	31.55
16	16 1,2,3,4,7,8,9-HpCDF	72639.097	1.008	NO	0.980	10.115	38.69	38.71	1.00	1.00	NO	11.01		0.172	11.01
17	17 OCDF	301729.876	0.874	NO	0.806	10.115	41.35	41.36	1.00	1.00	NO	47.50		0.121	47.50
18	18 13C-2,3,7,8-TCDD	2646401.8...	0.785	NO	1.20	10.115	25.69	25.72	1.03	1.03	NO	187.0	94.6	0.126	
19	19 13C-1,2,3,7,8-PeCDD	2159637.8...	0.633	NO	0.967	10.115	30.43	30.80	1.22	1.23	NO	189.2	95.7	0.187	
20	20 13C-1,2,3,4,7,8-HxCDD	1667803.9...	1.333	NO	0.874	10.115	34.18	34.18	1.01	1.01	NO	165.7	83.8	0.253	
21	21 13C-1,2,3,6,7,8-HxCDD	2025003.9...	1.193	NO	1.05	10.115	34.28	34.28	1.02	1.02	NO	168.1	85.0	0.212	
22	22 13C-1,2,3,7,8,9-HxCDD	1889549.2...	1.245	NO	0.974	10.115	34.59	34.55	1.03	1.02	NO	168.3	85.1	0.227	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1631651.3...	1.037	NO	0.747	10.115	38.16	38.04	1.13	1.13	NO	189.5	95.9	0.299	
24	24 13C-OCDD	2653773.8...	0.889	NO	0.707	10.115	41.06	41.17	1.22	1.22	NO	326.0	82.4	0.241	
25	25 13C-2,3,7,8-TCDF	3308152.3...	0.778	NO	1.07	10.115	24.87	24.78	0.99	0.99	NO	184.8	93.5	0.132	
26	26 13C-1,2,3,7,8-PeCDF	3047437.7...	1.579	NO	1.00	10.115	29.46	29.49	1.18	1.18	NO	181.0	91.6	0.256	
27	27 13C-2,3,4,7,8-PeCDF	2834620.1...	1.598	NO	0.962	10.115	30.42	30.48	1.21	1.22	NO	175.4	88.7	0.267	
28	28 13C-1,2,3,4,7,8-HxCDF	2159188.8...	0.511	NO	1.05	10.115	33.31	33.33	0.99	0.99	NO	178.6	90.3	0.268	
29	29 13C-1,2,3,6,7,8-HxCDF	2362818.1...	0.517	NO	1.19	10.115	33.41	33.44	0.99	0.99	NO	172.4	87.2	0.236	
30	30 13C-2,3,4,6,7,8-HxCDF	2167197.1...	0.513	NO	1.07	10.115	34.02	34.01	1.01	1.01	NO	176.4	89.2	0.264	
31	31 13C-1,2,3,7,8,9-HxCDF	1967342.1...	0.514	NO	0.922	10.115	34.92	34.89	1.04	1.04	NO	185.1	93.6	0.305	

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-9a.qld

Last Altered: Friday, March 13, 2020 13:51:02 Pacific Daylight Time

Printed: Friday, March 13, 2020 13:54:28 Pacific Daylight Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	1719911.7...	0.445	NO	0.767	10.115	36.68	36.63	1.09	1.09	NO	194.6	98.4	0.268	
33	13C-1,2,3,4,7,8,9-HpCDF	1331053.5...	0.435	NO	0.552	10.115	38.70	38.69	1.15	1.15	NO	209.2	106	0.372	
34	13C-OCDF	3118097.8...	0.879	NO	0.789	10.115	41.29	41.35	1.23	1.23	NO	342.9	86.7	0.170	
35	37Cl-2,3,7,8-TCDD	1010943.7...			1.18	10.115	25.72	25.74	1.03	1.03	NO	72.79	92.0	0.0463	
36	13C-1,2,3,4-TCDD	2334719.4...	0.787	NO	1.00	10.115	25.11	25.05	1.00	1.00	NO	197.7	100	0.151	
37	13C-1,2,3,4-TCDF	3322470.1...	0.793	NO	1.00	10.115	23.37	23.28	1.00	1.00	NO	197.7	100	0.140	
38	13C-1,2,3,4,6,9-HxCDF	2277936.8...	0.514	NO	1.00	10.115	33.71	33.71	1.00	1.00	NO	197.7	100	0.281	
39	Total Tetra-Dioxins				0.988	10.115	24.62		0.00		NO	45.97		0.0486	46.58
40	Total Penta-Dioxins				0.972	10.115	29.96		0.00		NO	13.48		0.0570	15.00
41	Total Hexa-Dioxins				0.921	10.115	33.63		0.00		NO	70.10		0.119	70.10
42	Total Hepta-Dioxins				0.923	10.115	37.64		0.00		NO	198.3		0.459	198.3
43	Total Tetra-Furans				0.802	10.115	23.61		0.00		NO	165.4		0.0830	165.9
44	1st Func. Penta-Furans				0.907	10.115	27.09		0.00		NO	14.27		0.0215	14.27
45	Total Penta-Furans				0.907	10.115	29.27		0.00		NO	199.1		0.126	199.1
46	Total Hexa-Furans				0.898	10.115	33.56		0.00		NO	192.1		0.127	192.1
47	Total Hepta-Furans				0.851	10.115	37.83		0.00		NO	89.10		0.174	89.10

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-9a.qld

Last Altered: Friday, March 13, 2020 13:51:02 Pacific Daylight Time

Printed: Friday, March 13, 2020 13:54:43 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	4.82e5	2.65e6	0.781	NO	24.62	21.59	36.45	36.45
2	39 Total Tetra-Dioxins	3.90e4	2.65e6	0.782	NO	24.62	22.01	2.951	2.951
3	39 Total Tetra-Dioxins	6.47e3	2.65e6	0.722	NO	24.62	22.53	0.4890	0.4890
4	39 Total Tetra-Dioxins	4.43e3	2.65e6	0.768	NO	24.62	23.46	0.3347	0.3347
5	39 Total Tetra-Dioxins	8.55e3	2.65e6	0.770	NO	24.62	23.72	0.6467	0.6467
6	39 Total Tetra-Dioxins	1.10e4	2.65e6	0.797	NO	24.62	23.95	0.8350	0.8350
7	39 Total Tetra-Dioxins	2.47e3	2.65e6	0.720	NO	24.62	24.19	0.1866	0.1866
8	39 Total Tetra-Dioxins	0.00e0	2.65e6	0.950	YES	24.62	24.45	0.0000	0.2129
9	39 Total Tetra-Dioxins	0.00e0	2.65e6	0.919	YES	24.62	24.63	0.0000	0.3053
10	39 Total Tetra-Dioxins	4.87e3	2.65e6	0.754	NO	24.62	25.03	0.3685	0.3685
11	39 Total Tetra-Dioxins	3.18e4	2.65e6	0.746	NO	24.62	25.47	2.401	2.401
12	1 2,3,7,8-TCDD	1.41e4	2.65e6	0.681	NO	25.75	25.74	1.067	1.067
13	39 Total Tetra-Dioxins	3.16e3	2.65e6	0.732	NO	24.62	26.06	0.2392	0.2392
14	39 Total Tetra-Dioxins	0.00e0	2.65e6	0.929	YES	24.62	26.72	0.0000	0.09806

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	4.51e4	2.16e6	0.652	NO	29.96	28.58	4.246	4.246
2	40 Total Penta-Dioxins	9.06e3	2.16e6	0.684	NO	29.96	29.05	0.8528	0.8528
3	40 Total Penta-Dioxins	1.82e4	2.16e6	0.681	NO	29.96	29.57	1.711	1.711
4	40 Total Penta-Dioxins	1.60e4	2.16e6	0.591	NO	29.96	29.74	1.505	1.505
5	40 Total Penta-Dioxins	9.80e3	2.16e6	0.679	NO	29.96	29.83	0.9225	0.9225
6	40 Total Penta-Dioxins	0.00e0	2.16e6	0.649	NO	29.96	30.04	0.0000	1.046
7	40 Total Penta-Dioxins	2.49e4	2.16e6	0.642	NO	29.96	30.39	2.346	2.346
8	2 1,2,3,7,8-PeCDD	1.33e4	2.16e6	0.655	NO	30.83	30.82	1.253	1.253
9	40 Total Penta-Dioxins	3.20e3	2.16e6	0.615	NO	29.96	30.91	0.3015	0.3015
10	40 Total Penta-Dioxins	3.70e3	2.16e6	0.684	NO	29.96	31.22	0.3482	0.3482
11	40 Total Penta-Dioxins	0.00e0	2.16e6	0.658	NO	29.96	30.09	0.0000	0.4728

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-9a.qld

Last Altered: Friday, March 13, 2020 13:51:02 Pacific Daylight Time

Printed: Friday, March 13, 2020 13:54:43 Pacific Daylight Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

Hexa-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	1.47e5	0.00e0	1.227	NO	33.63	32.73	16.97	16.97
2	41 Total Hexa-Dioxins	8.23e4	0.00e0	1.256	NO	33.63	33.27	9.493	9.493
3	41 Total Hexa-Dioxins	2.58e5	0.00e0	1.244	NO	33.63	33.53	29.77	29.77
4	41 Total Hexa-Dioxins	1.06e4	0.00e0	1.158	NO	33.63	33.63	1.223	1.223
5	3 1,2,3,4,7,8-HxCDD	9.34e3	1.67e6	1.217	NO	34.19	34.20	1.034	1.034
6	4 1,2,3,6,7,8-HxCDD	7.36e4	2.03e6	1.244	NO	34.28	34.30	7.805	7.805
7	41 Total Hexa-Dioxins	4.77e3	0.00e0	1.164	NO	33.63	34.48	0.5501	0.5501
8	5 1,2,3,7,8,9-HxCDD	2.85e4	1.89e6	1.189	NO	34.59	34.56	3.248	3.248

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	8.05e5	1.63e6	1.024	NO	37.64	37.02	105.7	105.7
2	6 1,2,3,4,6,7,8-HpCDD	7.05e5	1.63e6	1.020	NO	38.06	38.07	92.59	92.59

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-9a.qld

Last Altered: Friday, March 13, 2020 13:51:02 Pacific Daylight Time

Printed: Friday, March 13, 2020 13:54:43 Pacific Daylight Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	1.37e4	3.31e6	0.740	NO	23.61	19.55	1.023	1.023
2	43 Total Tetra-Furans	1.55e4	3.31e6	0.756	NO	23.61	20.08	1.159	1.159
3	43 Total Tetra-Furans	1.26e5	3.31e6	0.765	NO	23.61	20.63	9.360	9.360
4	43 Total Tetra-Furans	5.86e4	3.31e6	0.755	NO	23.61	21.17	4.364	4.364
5	43 Total Tetra-Furans	1.96e5	3.31e6	0.756	NO	23.61	21.57	14.64	14.64
6	43 Total Tetra-Furans	6.66e4	3.31e6	0.753	NO	23.61	22.04	4.966	4.966
7	43 Total Tetra-Furans	1.21e4	3.31e6	0.783	NO	23.61	22.20	0.8995	0.8995
8	43 Total Tetra-Furans	3.19e4	3.31e6	0.759	NO	23.61	22.38	2.380	2.380
9	43 Total Tetra-Furans	7.20e3	3.31e6	0.822	NO	23.61	22.85	0.5369	0.5369
10	43 Total Tetra-Furans	7.65e3	3.31e6	0.692	NO	23.61	23.01	0.5702	0.5702
11	43 Total Tetra-Furans	1.85e4	3.31e6	0.750	NO	23.61	23.18	1.380	1.380
12	43 Total Tetra-Furans	1.11e5	3.31e6	0.765	NO	23.61	23.28	8.256	8.256
13	43 Total Tetra-Furans	6.47e5	3.31e6	0.763	NO	23.61	23.83	48.18	48.18
14	43 Total Tetra-Furans	2.98e4	3.31e6	0.760	NO	23.61	24.13	2.224	2.224
15	43 Total Tetra-Furans	0.00e0	3.31e6	0.934	YES	23.61	24.34	0.0000	0.4309
16	43 Total Tetra-Furans	7.71e3	3.31e6	0.709	NO	23.61	24.55	0.5747	0.5747
17	43 Total Tetra-Furans	8.47e4	3.31e6	0.741	NO	23.61	24.69	6.311	6.311
18	8 2,3,7,8-TCDF	6.90e5	3.31e6	0.761	NO	24.80	24.81	51.46	51.46
19	43 Total Tetra-Furans	2.70e4	3.31e6	0.780	NO	23.61	25.20	2.013	2.013
20	43 Total Tetra-Furans	7.74e3	3.31e6	0.755	NO	23.61	25.47	0.5772	0.5772
21	43 Total Tetra-Furans	6.13e4	3.31e6	0.805	NO	23.61	26.87	4.567	4.567

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	1.93e5	0.00e0	1.545	NO	27.09	26.89	14.27	14.27

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-9a.qld

Last Altered: Friday, March 13, 2020 13:51:02 Pacific Daylight Time

Printed: Friday, March 13, 2020 13:54:43 Pacific Daylight Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	2.44e4	0.00e0	1.530	NO	29.27	28.36	1.807	1.807
2	45 Total Penta-Furans	5.19e5	0.00e0	1.559	NO	29.27	28.52	38.45	38.45
3	45 Total Penta-Furans	4.12e3	0.00e0	1.490	NO	29.27	28.90	0.3050	0.3050
4	45 Total Penta-Furans	5.62e4	0.00e0	1.473	NO	29.27	29.11	4.161	4.161
5	45 Total Penta-Furans	1.02e5	0.00e0	1.565	NO	29.27	29.32	7.572	7.572
6	9 1,2,3,7,8-PeCDF	1.10e6	3.05e6	1.536	NO	29.51	29.51	78.87	78.87
7	45 Total Penta-Furans	3.54e5	0.00e0	1.557	NO	29.27	29.78	26.22	26.22
8	45 Total Penta-Furans	2.55e3	0.00e0	1.512	NO	29.27	30.29	0.1891	0.1891
9	45 Total Penta-Furans	7.17e3	0.00e0	1.544	NO	29.27	30.39	0.5313	0.5313
10	10 2,3,4,7,8-PeCDF	1.43e5	2.83e6	1.481	NO	30.51	30.50	10.46	10.46
11	45 Total Penta-Furans	2.62e4	0.00e0	1.431	NO	29.27	31.44	1.945	1.945
12	45 Total Penta-Furans	3.86e5	0.00e0	1.576	NO	29.27	30.51	28.58	28.58

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	4.64e4	0.00e0	1.248	NO	33.56	32.17	4.718	4.718
2	46 Total Hexa-Furans	1.64e5	0.00e0	1.234	NO	33.56	32.34	16.70	16.70
3	46 Total Hexa-Furans	4.64e3	0.00e0	1.207	NO	33.56	32.70	0.4722	0.4722
4	46 Total Hexa-Furans	2.06e5	0.00e0	1.235	NO	33.56	32.88	20.93	20.93
5	46 Total Hexa-Furans	7.19e3	0.00e0	1.108	NO	33.56	33.24	0.7309	0.7309
6	11 1,2,3,4,7,8-HxCDF	9.43e5	2.16e6	1.215	NO	33.33	33.34	100.1	100.1
7	12 1,2,3,6,7,8-HxCDF	2.82e5	2.36e6	1.208	NO	33.45	33.45	28.06	28.06
8	46 Total Hexa-Furans	5.71e3	0.00e0	1.190	NO	33.56	33.72	0.5805	0.5805
9	13 2,3,4,6,7,8-HxCDF	6.84e4	2.17e6	1.211	NO	34.04	34.03	6.950	6.950
10	14 1,2,3,7,8,9-HxCDF	3.43e4	1.97e6	1.139	NO	34.89	34.92	4.024	4.024
11	46 Total Hexa-Furans	8.66e4	0.00e0	1.230	NO	33.56	34.95	8.807	8.807

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-9a.qld

Last Altered: Friday, March 13, 2020 13:51:02 Pacific Daylight Time

Printed: Friday, March 13, 2020 13:54:43 Pacific Daylight Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	2.34e5	1.72e6	1.000	NO	36.67	36.64	31.55	31.55
2	47 Total Hepta-Furans	4.96e3	0.00e0	1.012	NO	37.83	37.02	0.7550	0.7550
3	47 Total Hepta-Furans	3.01e5	0.00e0	1.013	NO	37.83	37.24	45.78	45.78
4	16 1,2,3,4,7,8,9-HpCDF	7.26e4	1.33e6	1.008	NO	38.69	38.71	11.01	11.01

Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

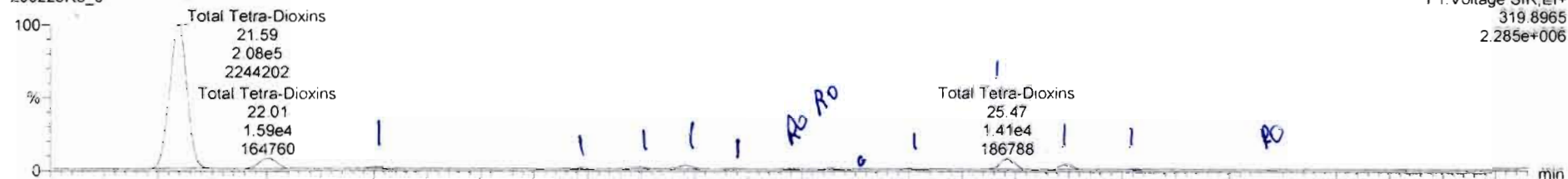
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

dy 03/02/2020

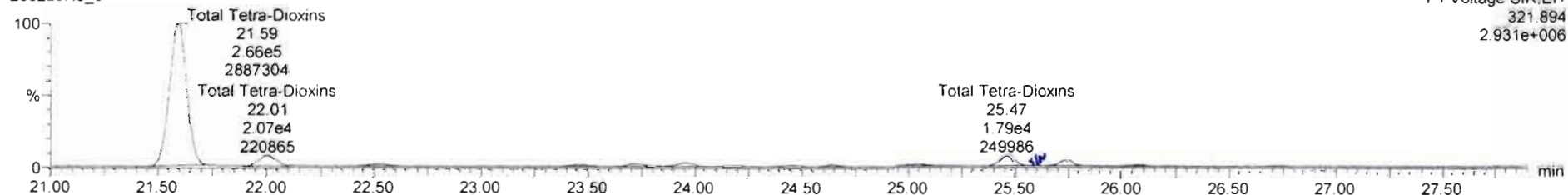
Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

2,3,7,8-TCDD

200223R3_9

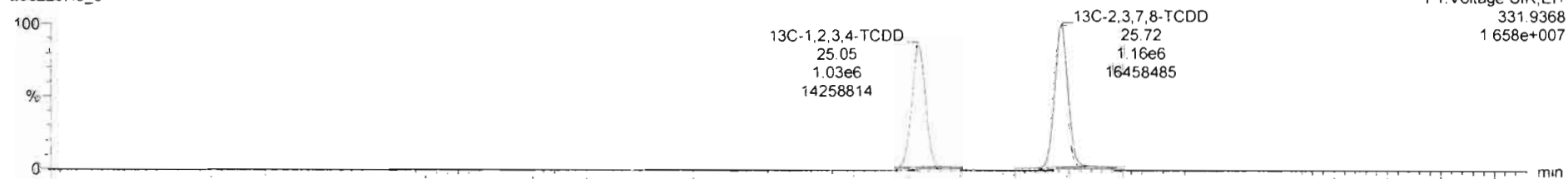


200223R3_9

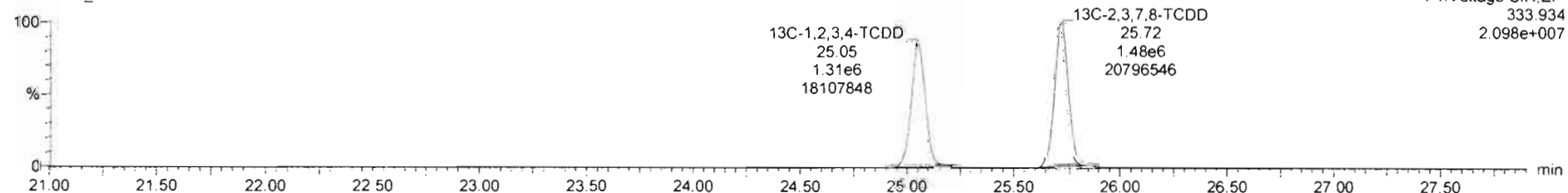


13C-2,3,7,8-TCDD

200223R3_9

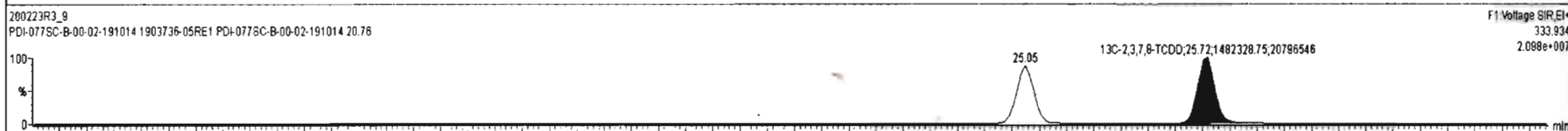
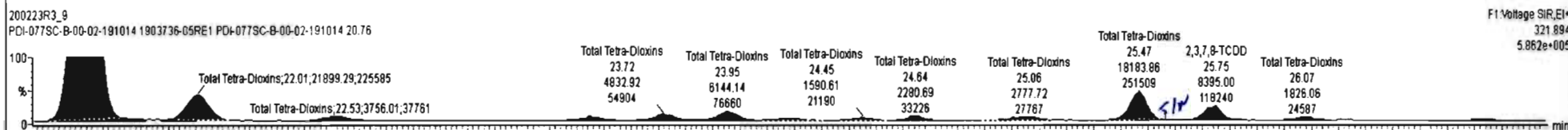
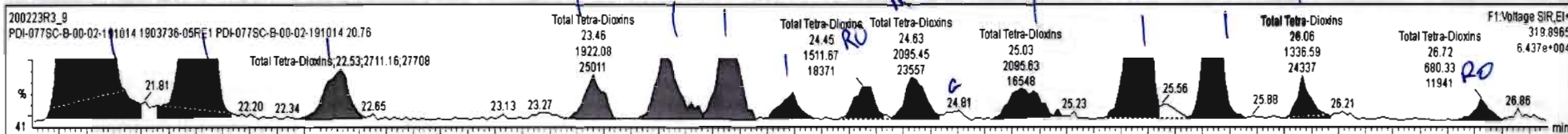


200223R3_9



#	Name	Resp	RA	n/y	RPF	wtArd	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9681	10.115	24.62		0.000		NO	45.97		0.0466	46.58
40	Total Penta-Dioxins				0.9723	10.115	29.96		0.000		NO	15.04		0.0570	15.04
41	Total Hexa-Dioxins				0.9211	10.115	33.63		0.000		NO	70.10		0.119	70.26

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.59	2.115e5	2.706e5	0.770	0.78	NO	36.449	36.449
2	39 Total Tetra-Dioxins	24.62	22.01	1.712e4	2.190e4	0.770	0.78	NO	2.9508	2.9508
3	39 Total Tetra-Dioxins	24.62	22.53	2.711e3	3.756e3	0.770	0.72	NO	0.48903	0.48903
4	39 Total Tetra-Dioxins	24.62	23.46	1.822e3	2.504e3	0.770	0.77	NO	0.33469	0.33469
5	39 Total Tetra-Dioxins	24.62	23.72	3.719e3	4.833e3	0.770	0.77	NO	0.84671	0.84671
6	39 Total Tetra-Dioxins	24.62	23.95	4.898e3	6.144e3	0.770	0.80	NO	0.83499	0.83499
7	39 Total Tetra-Dioxins	24.62	24.19	1.033e3	1.434e3	0.770	0.72	NO	0.18657	0.18657
8	39 Total Tetra-Dioxins	24.62	24.45	1.512e3	1.991e3	0.770	0.95	YES	0.21289	0.00000
9	39 Total Tetra-Dioxins	24.62	24.63	2.095e3	2.281e3	0.770	0.92	YES	0.30525	0.00000
10	39 Total Tetra-Dioxins	24.62	25.03	2.096e3	2.778e3	0.770	0.75	NO	0.36651	0.36651
11	39 Total Tetra-Dioxins	24.62	25.47	1.357e4	1.818e4	0.770	0.75	NO	2.4011	2.4011
12	1 2,3,7,8-TCDD	25.75	25.74	5.720e3	8.395e3	0.770	0.68	NO	1.0673	1.0673
13	39 Total Tetra-Dioxins	24.62	26.06	1.337e3	1.826e3	0.770	0.73	NO	0.23915	0.23915
14	39 Total Tetra-Dioxins	24.62	26.72	6.803e2	7.326e2	0.770	0.93	YES	0.098058	0.00000



Dataset: Untitled

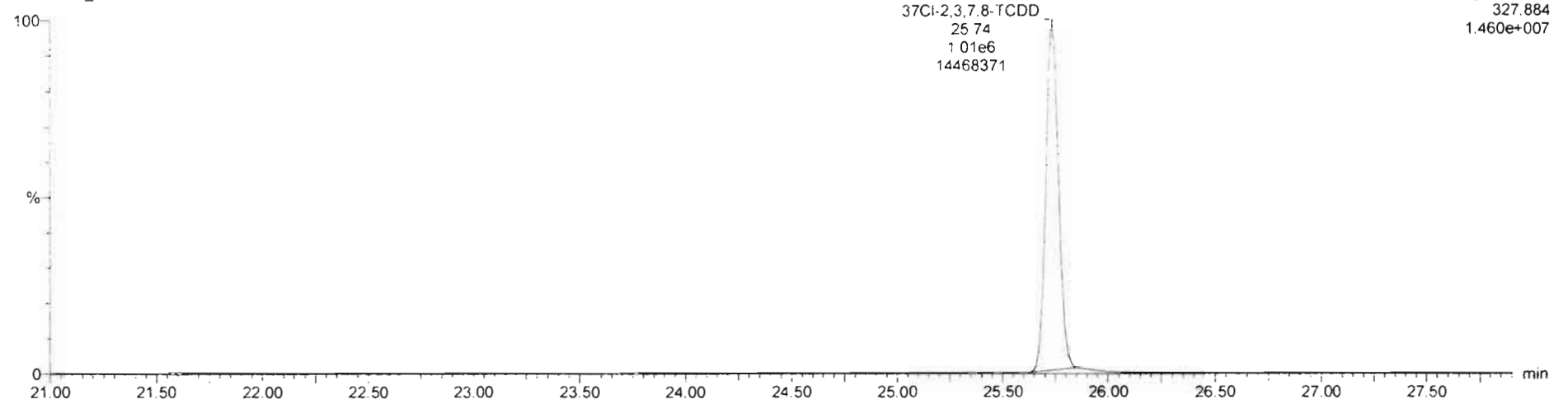
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

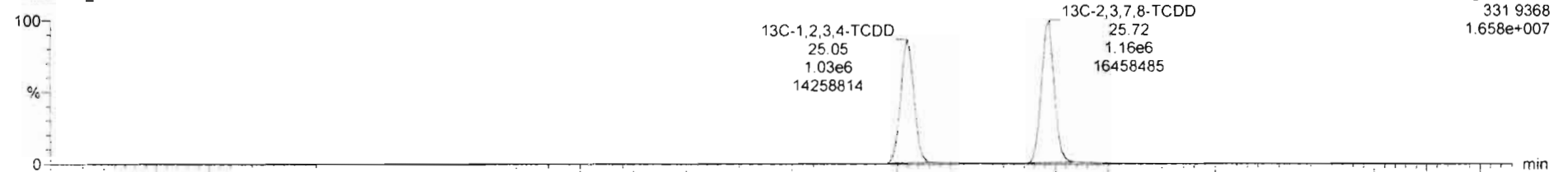
37Cl-2,3,7,8-TCDD

200223R3_9

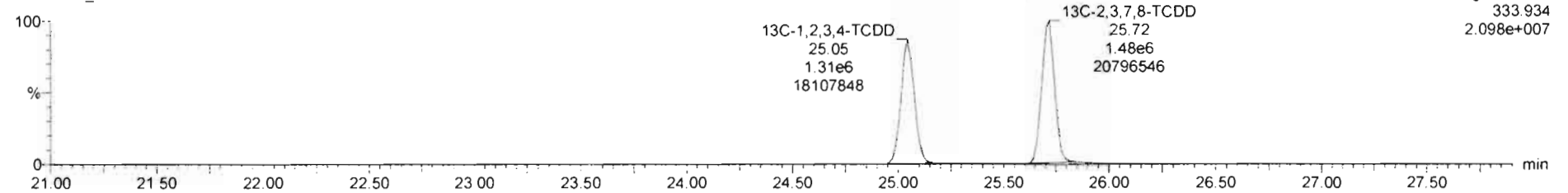


13C-1,2,3,4-TCDD

200223R3_9



200223R3_9



Dataset: Untitled

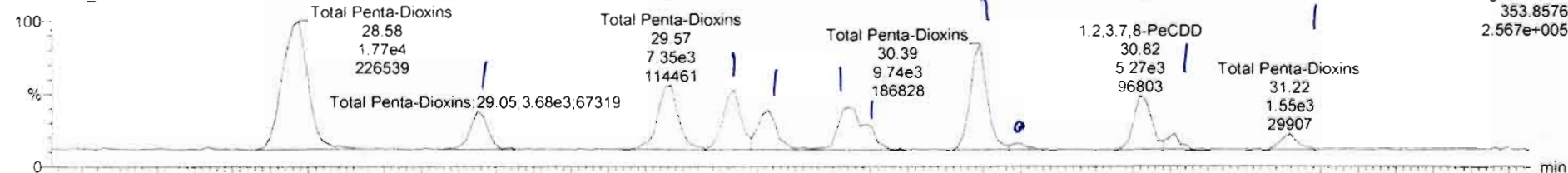
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

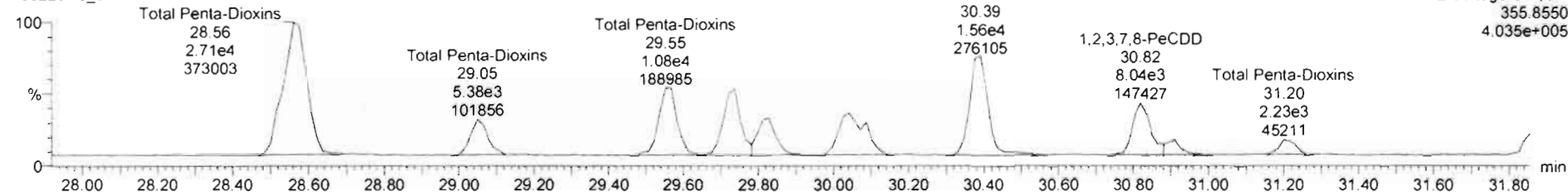
Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

1,2,3,7,8-PeCDD

200223R3_9

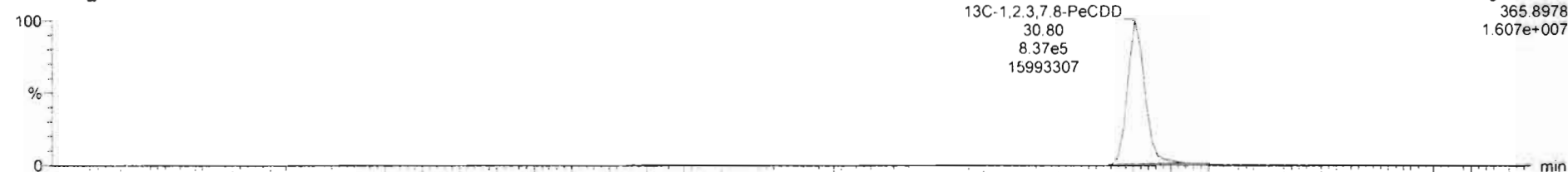


200223R3_9

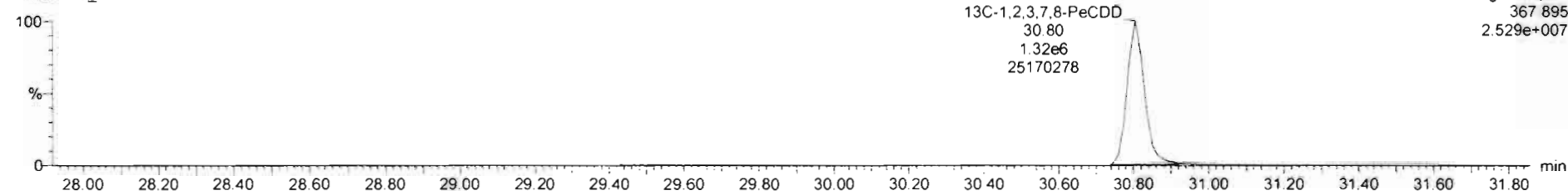


13C-1,2,3,7,8-PeCDD

200223R3_9

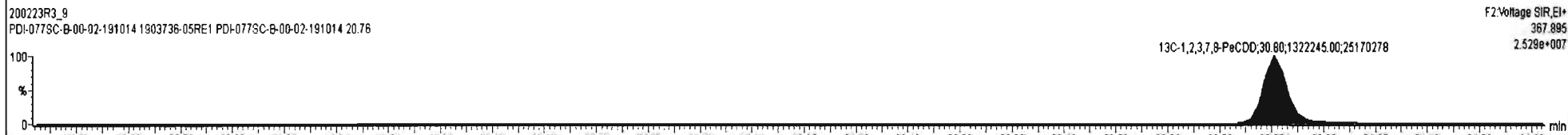
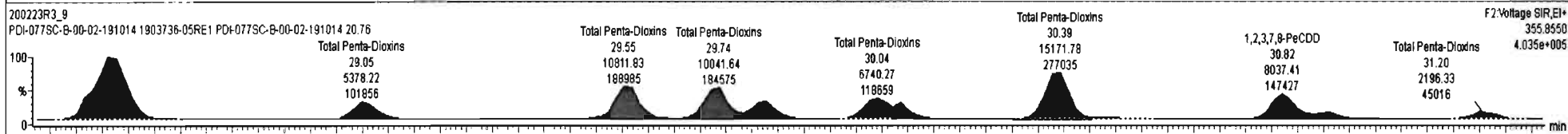
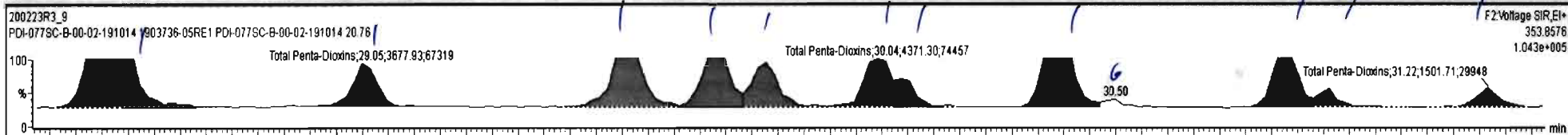


200223R3_9



#	Name	Resp	RA	nVY	RRF	wtAvl	Prod.RT	RT	Prod.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9861	10.115	24.62		0.000		NO	45.97		0.0486	46.58
40	Total Penta-Dioxins				0.9723	10.115	29.98		0.000		NO	13.48		0.0570	15.00
41	Total Hexa-Dioxins				0.9211	10.115	33.63		0.000		NO	70.10		0.119	70.28

#	Name	Pred.RT	RT	w1 Resp	w2 Resp	1* Ratio (Pred)	RA	nVY	EMPC	Conc.
1	Total Penta-Dioxins	29.96	29.58	1.779e4	2.730e4	0.630	0.65	NO	4.2458	4.2458
2	Total Penta-Dioxins	29.96	29.05	3.678e3	5.378e3	0.630	0.68	NO	0.85278	0.85278
3	Total Penta-Dioxins	29.96	29.57	7.358e3	1.081e4	0.630	0.68	NO	1.7110	1.7110
4	Total Penta-Dioxins	29.96	29.74	5.938e3	1.004e4	0.630	0.59	NO	1.5047	1.5047
5	Total Penta-Dioxins	29.96	29.83	3.962e3	5.834e3	0.630	0.68	NO	0.92247	0.92247
6	Total Penta-Dioxins	29.96	30.04	4.371e3	6.740e3	0.630	0.65	NO	1.0463	0.00000
7	Total Penta-Dioxins	29.96	30.09	1.993e3	3.029e3	0.630	0.66	NO	0.47293	0.00000
8	Total Penta-Dioxins	29.96	30.39	9.737e3	1.517e4	0.630	0.64	NO	2.3456	2.3456
9	2,3,7,8-PeCDD	30.83	30.82	5.266e3	8.037e3	0.630	0.66	NO	1.2527	1.2527
10	Total Penta-Dioxins	29.96	30.81	1.219e3	1.989e3	0.630	0.62	NO	0.30151	0.30151
11	Total Penta-Dioxins	29.96	31.22	1.502e3	2.196e3	0.630	0.68	NO	0.34823	0.34823



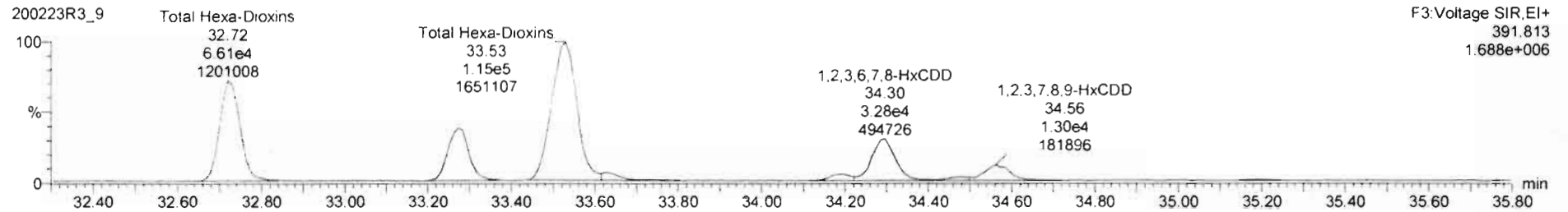
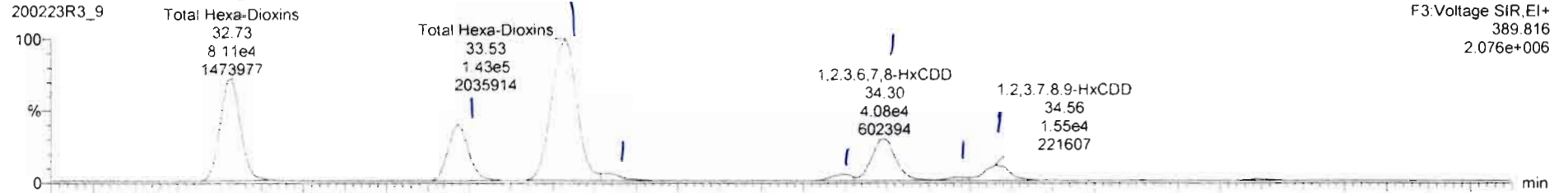
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

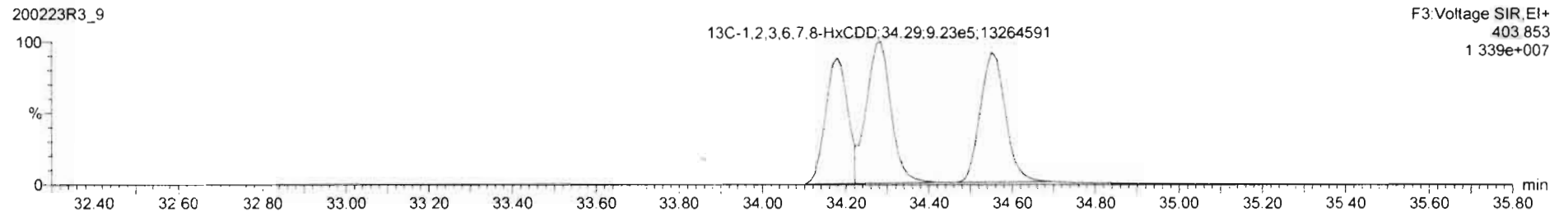
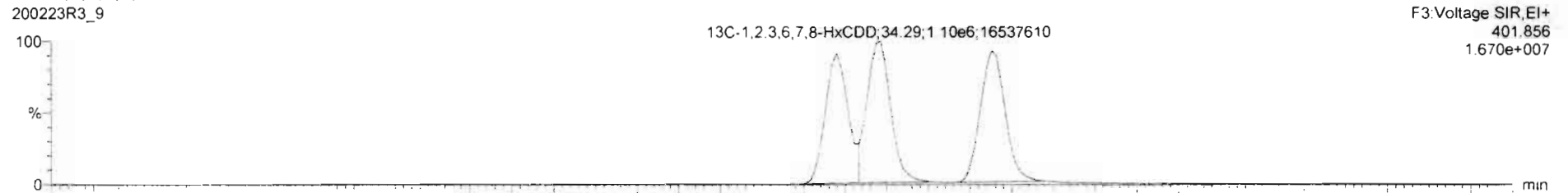
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

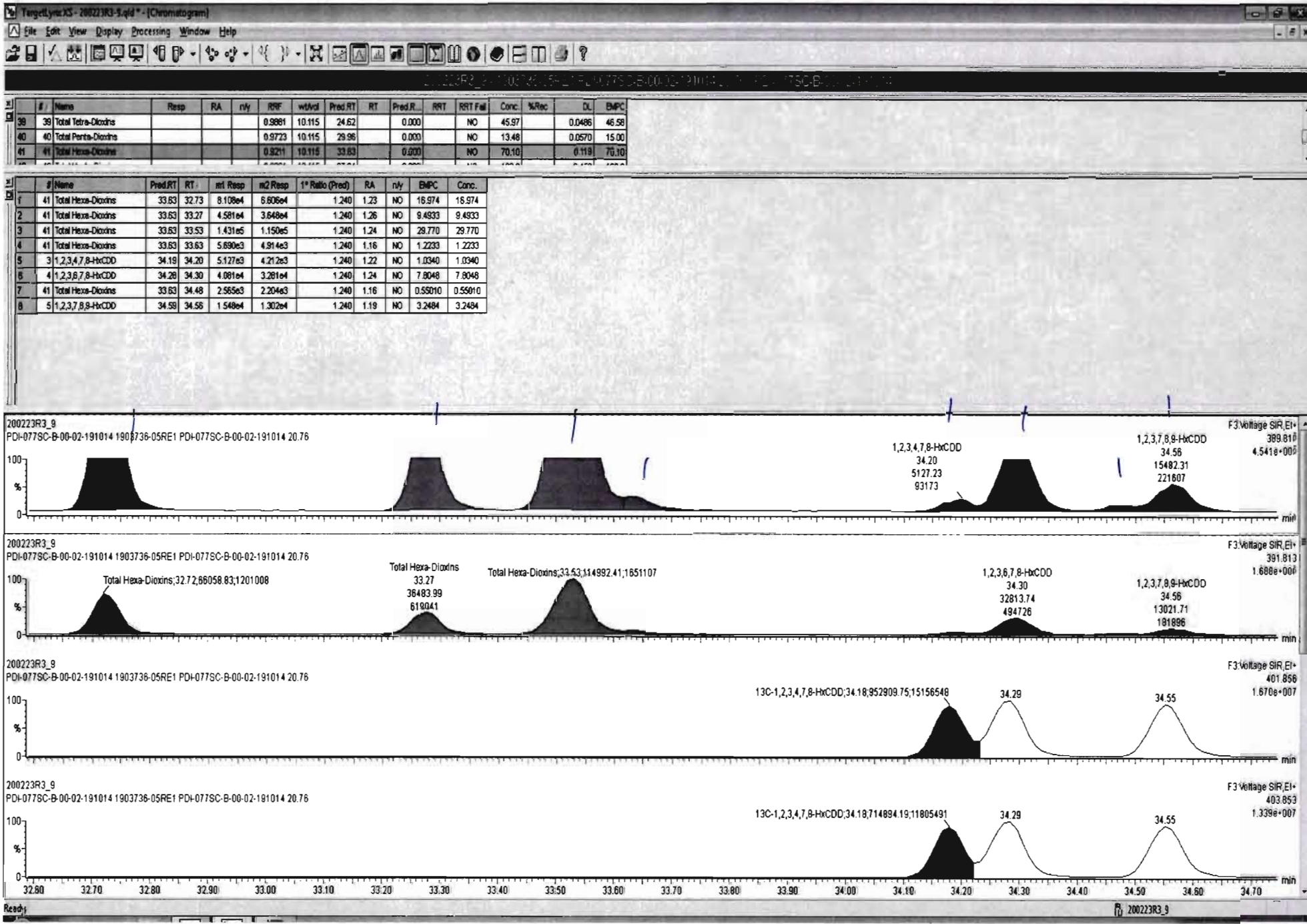
Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

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



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





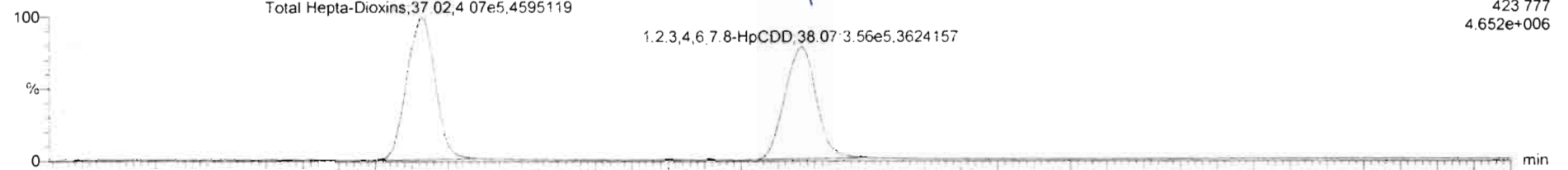
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

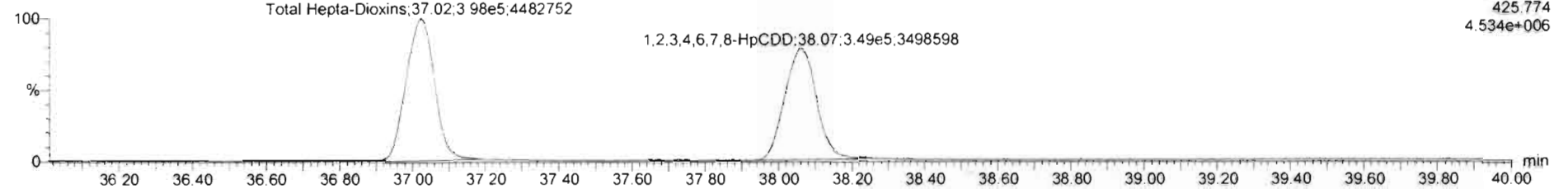
Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

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

200223R3_9

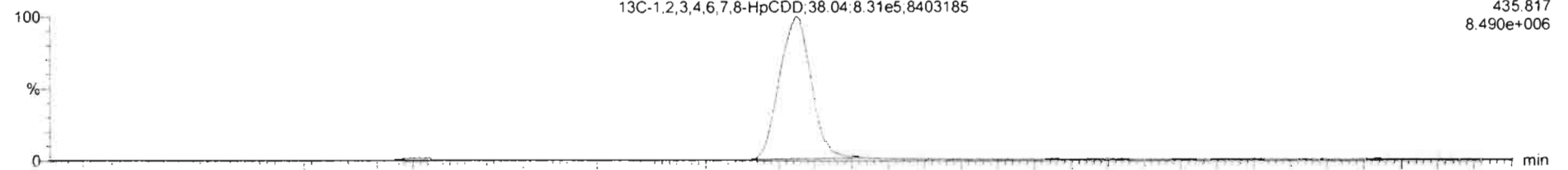


200223R3_9

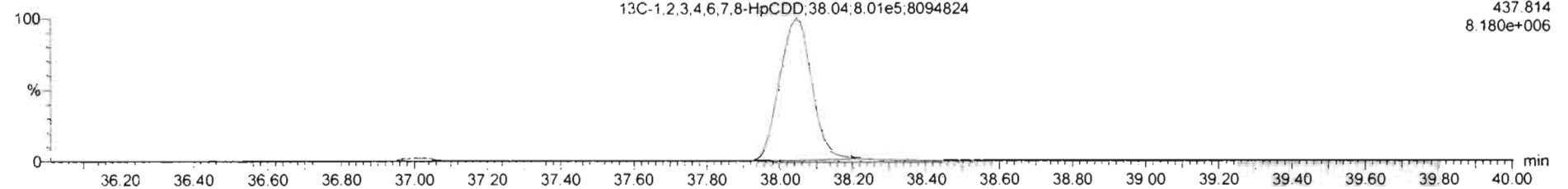


13C-1,2,3,4,6,7,8-HpCDD

200223R3_9



200223R3_9

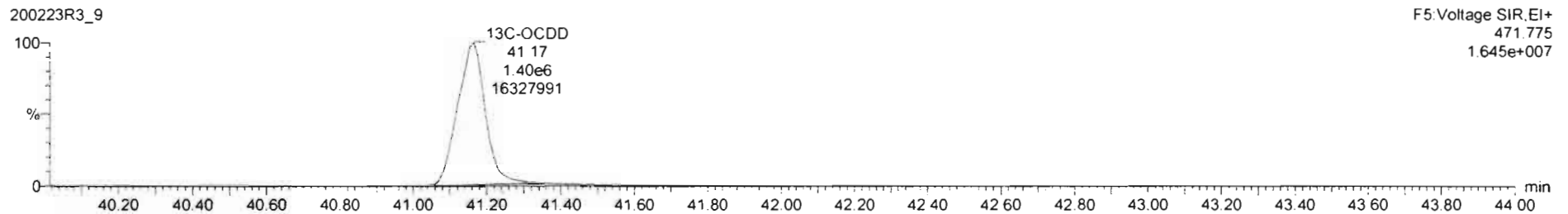
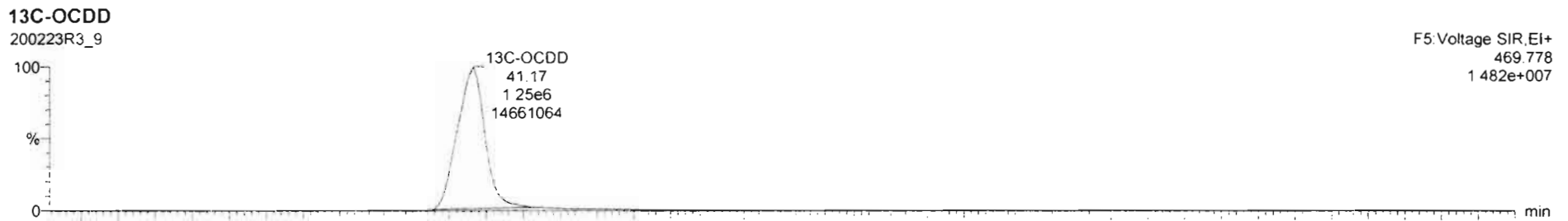
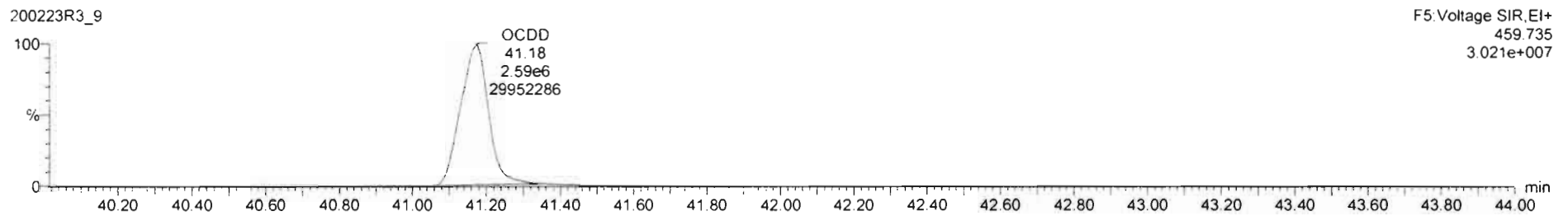
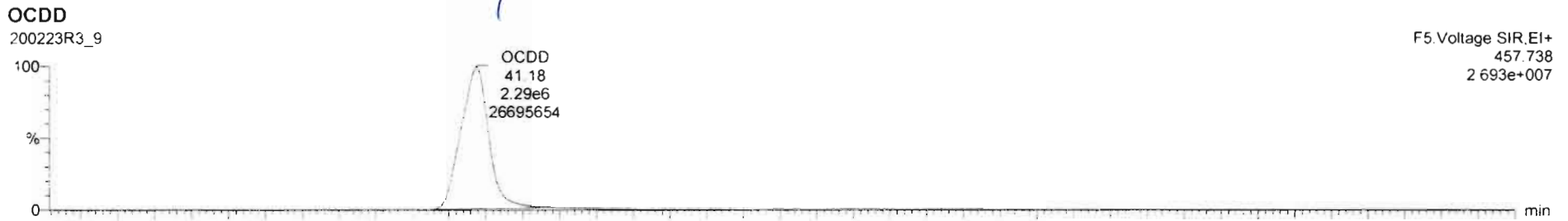


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014



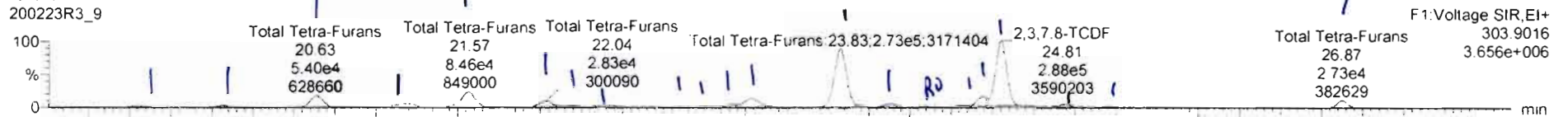
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

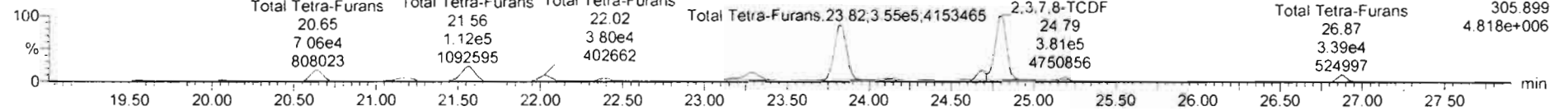
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

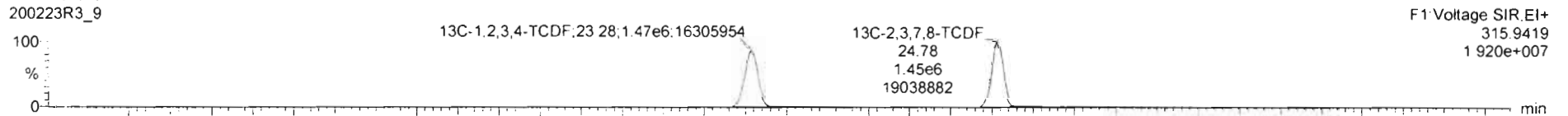
2,3,7,8-TCDF



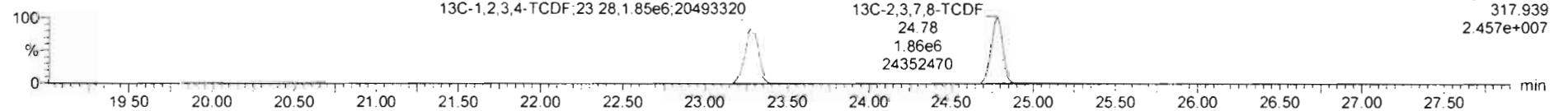
200223R3_9



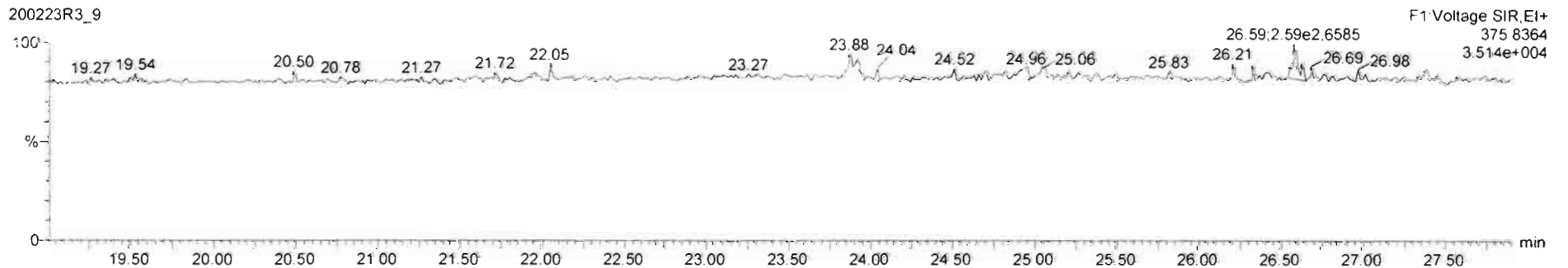
13C-2,3,7,8-TCDF



200223R3_9

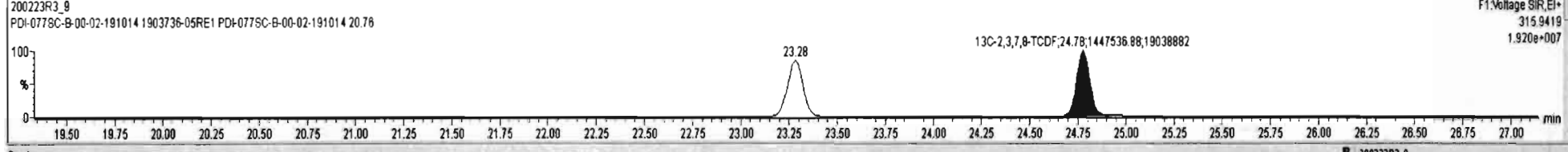
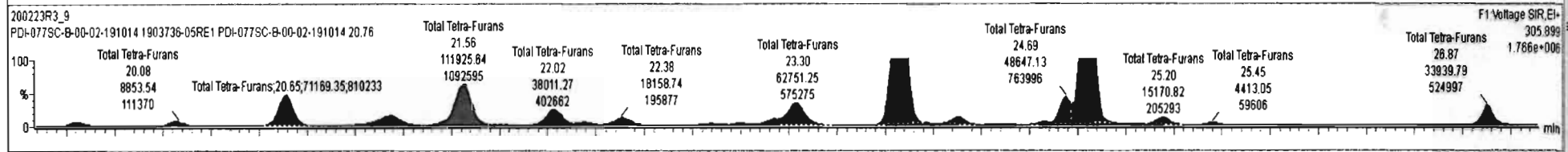
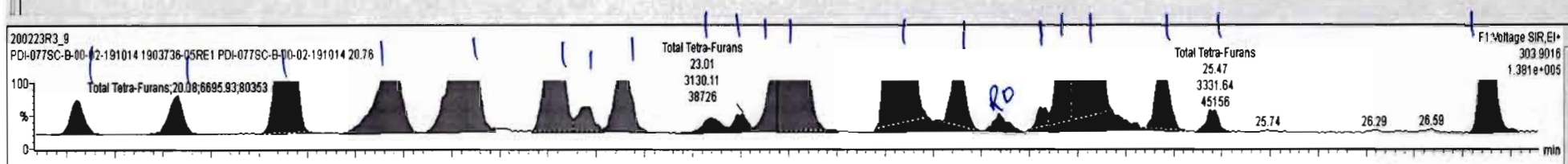


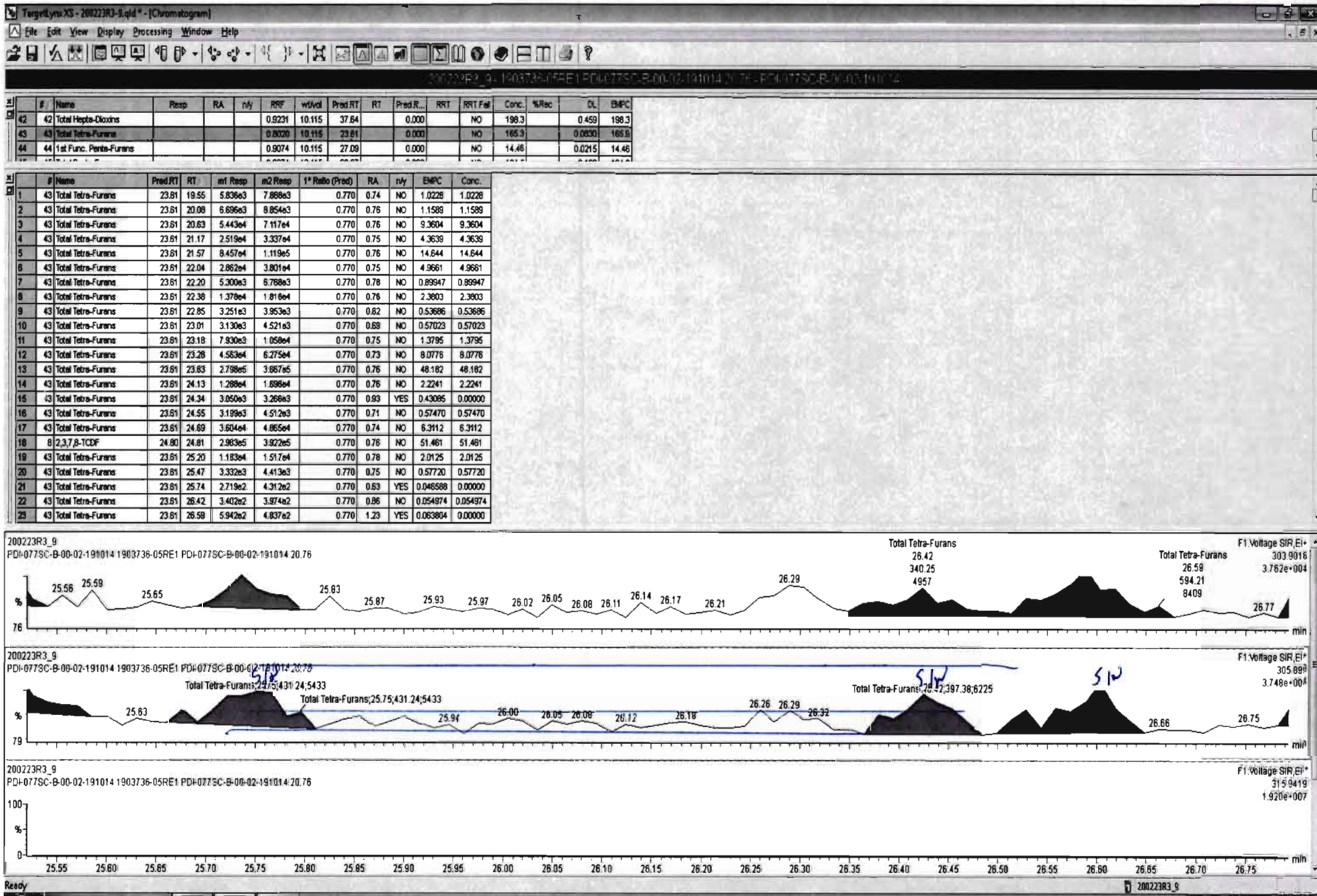
DPE1



#	Name	Resp	RA	n/y	RPF	wtWt	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9231	10.115	37.84		0.000		NO	198.3		0.459	198.3
43	Total Tetra-Furans				0.8029	10.115	23.81		0.000		NO	165.4		0.0830	165.9
44	1st Func. Penta-Furans				0.9074	10.115	27.09		0.000		NO	14.46		0.0215	14.46

#	Name	Pred.RT	RT	Int Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.55	5.836e3	7.888e3	0.770	0.74	NO	1.0228	1.0228
2	43 Total Tetra-Furans	23.61	20.08	6.696e3	8.854e3	0.770	0.76	NO	1.1589	1.1589
3	43 Total Tetra-Furans	23.61	20.63	5.443e4	7.117e4	0.770	0.76	NO	9.3604	9.3604
4	43 Total Tetra-Furans	23.61	21.17	2.519e4	3.337e4	0.770	0.75	NO	4.3639	4.3639
5	43 Total Tetra-Furans	23.61	21.57	8.457e4	1.119e5	0.770	0.76	NO	14.644	14.644
6	43 Total Tetra-Furans	23.61	22.04	2.862e4	3.801e4	0.770	0.75	NO	4.9661	4.9661
7	43 Total Tetra-Furans	23.61	22.20	5.300e3	6.768e3	0.770	0.76	NO	0.89947	0.89947
8	43 Total Tetra-Furans	23.61	22.38	1.378e4	1.816e4	0.770	0.76	NO	2.3803	2.3803
9	43 Total Tetra-Furans	23.61	22.85	3.251e3	3.953e3	0.770	0.82	NO	0.53686	0.53686
10	43 Total Tetra-Furans	23.61	23.01	3.130e3	4.521e3	0.770	0.69	NO	0.57023	0.57023
11	43 Total Tetra-Furans	23.61	23.18	7.930e3	1.058e4	0.770	0.75	NO	1.3795	1.3795
12	43 Total Tetra-Furans	23.61	23.28	4.803e4	6.275e4	0.770	0.77	NO	8.2563	8.2563
13	43 Total Tetra-Furans	23.61	23.83	2.798e5	3.667e5	0.770	0.76	NO	48.182	48.182
14	43 Total Tetra-Furans	23.61	24.13	1.288e4	1.696e4	0.770	0.76	NO	2.2241	2.2241
15	43 Total Tetra-Furans	23.61	24.34	3.050e3	3.266e3	0.770	0.93	YES	0.43085	0.00000
16	43 Total Tetra-Furans	23.61	24.55	3.198e3	4.512e3	0.770	0.71	NO	0.57470	0.57470
17	43 Total Tetra-Furans	23.61	24.69	3.604e4	4.865e4	0.770	0.74	NO	6.3112	6.3112
18	8 2,3,7,8-TCDF	24.80	24.81	2.983e5	3.922e5	0.770	0.76	NO	51.461	51.461
19	43 Total Tetra-Furans	23.61	25.20	1.183e4	1.517e4	0.770	0.78	NO	2.0125	2.0125
20	43 Total Tetra-Furans	23.61	25.47	3.332e3	4.413e3	0.770	0.75	NO	0.57720	0.57720
21	43 Total Tetra-Furans	23.61	26.87	2.734e4	3.394e4	0.770	0.81	NO	4.5667	4.5667





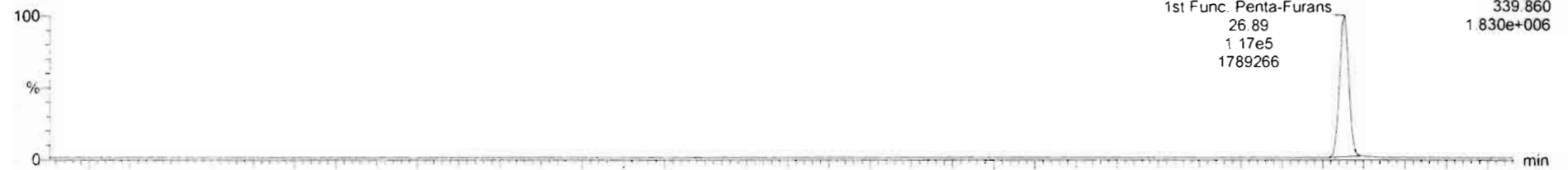
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

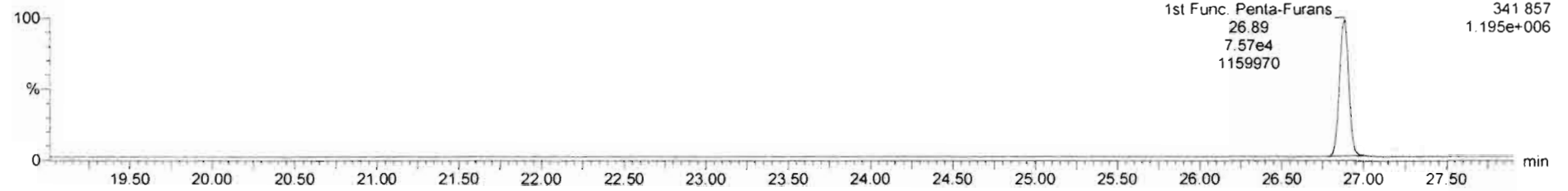
Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

1st Func. Penta-Furans

200223R3_9

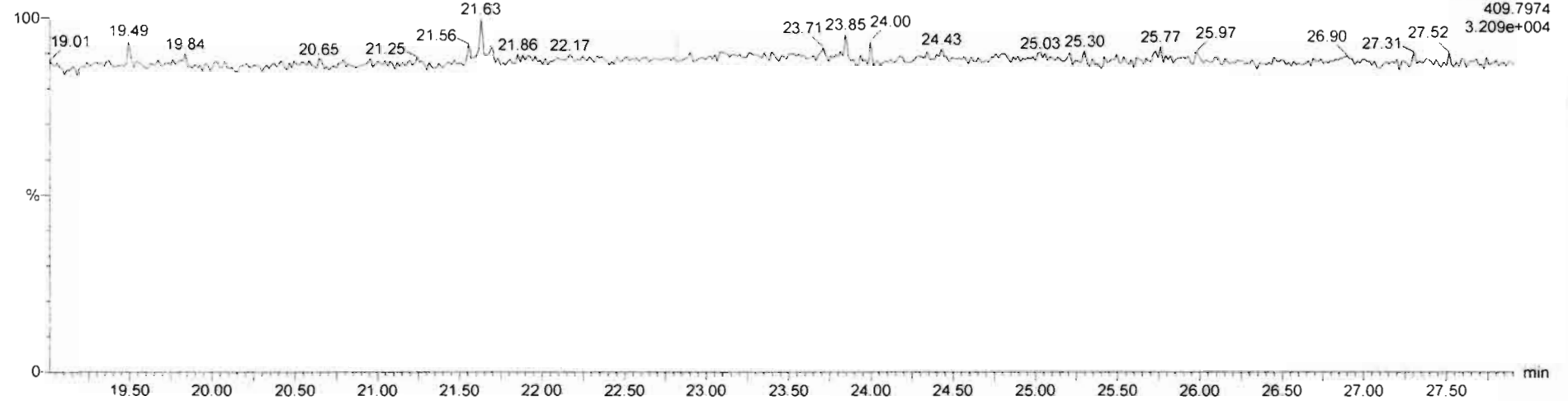


200223R3_9



DPE6

200223R3_9



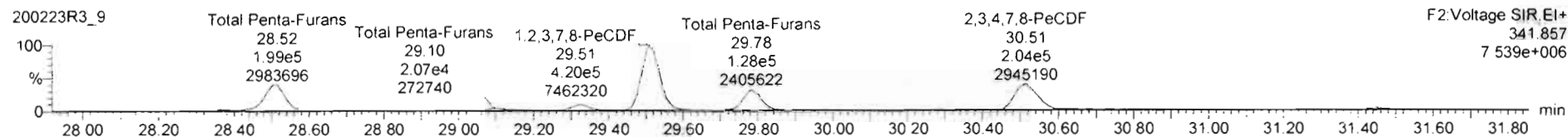
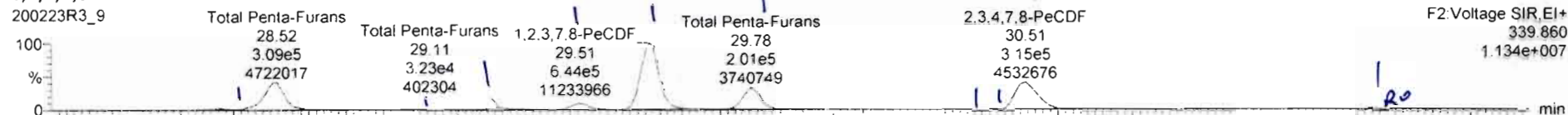
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

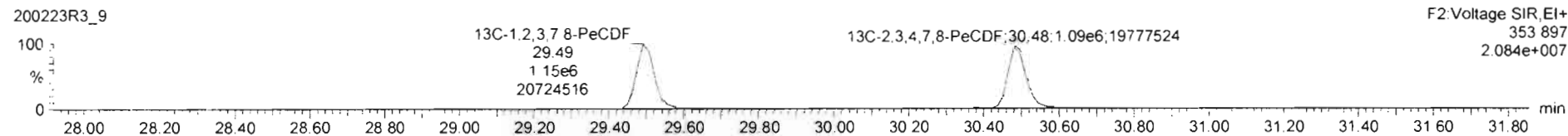
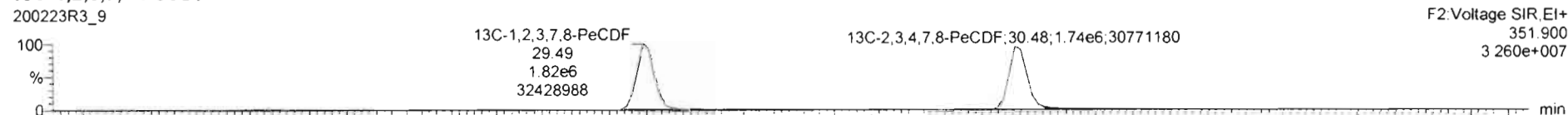
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

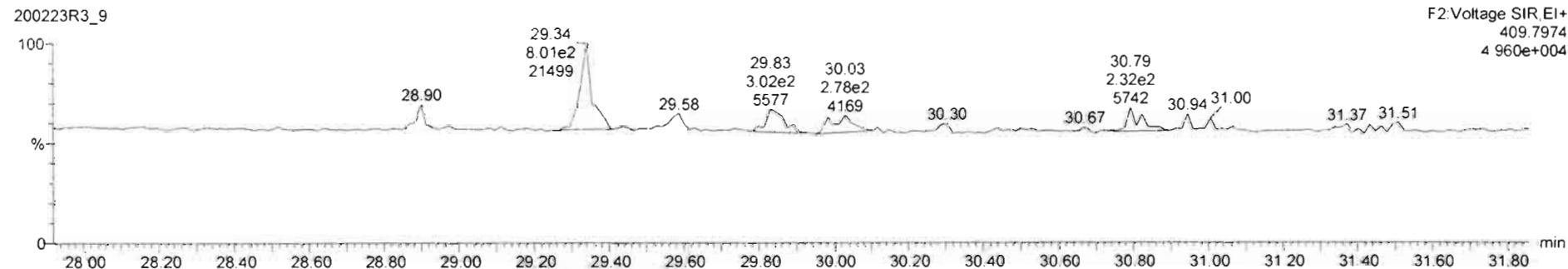
1,2,3,7,8-PeCDF

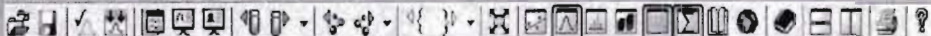


13C-1,2,3,7,8-PeCDF



DPE2

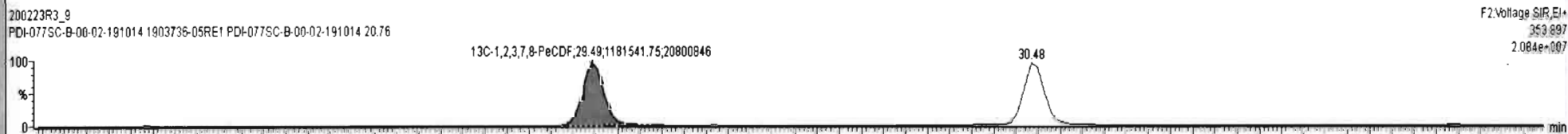
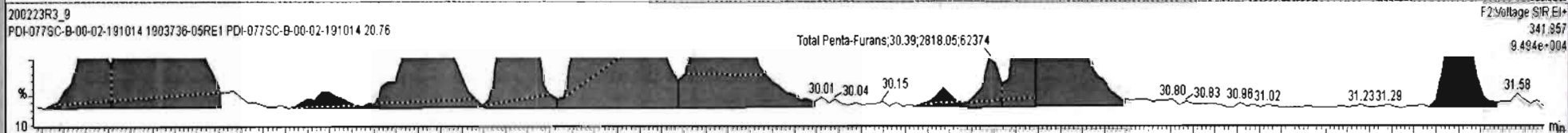
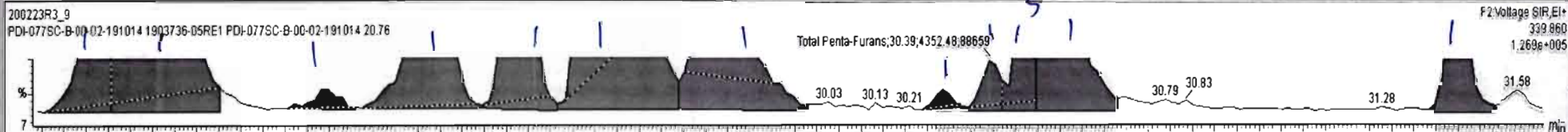


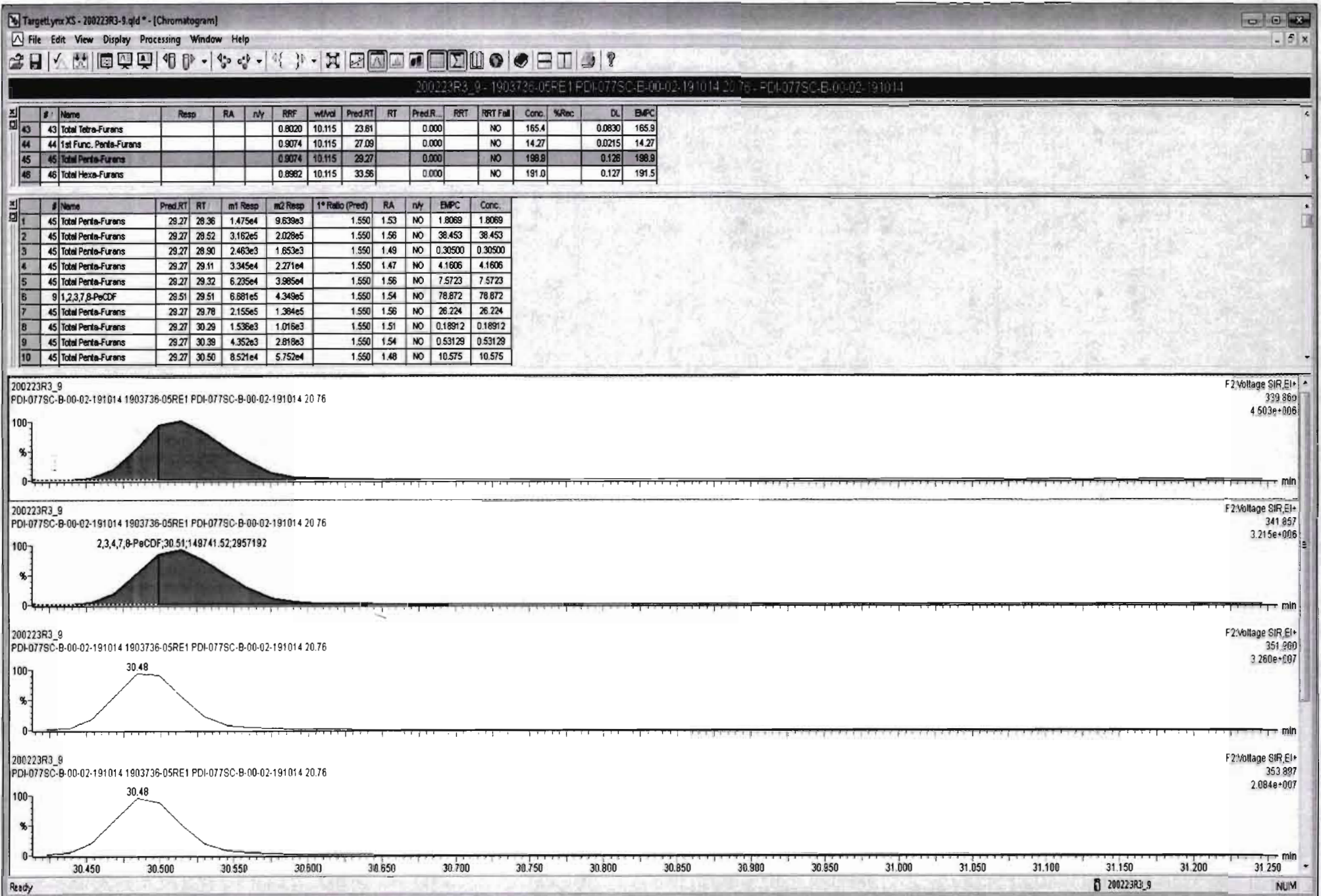


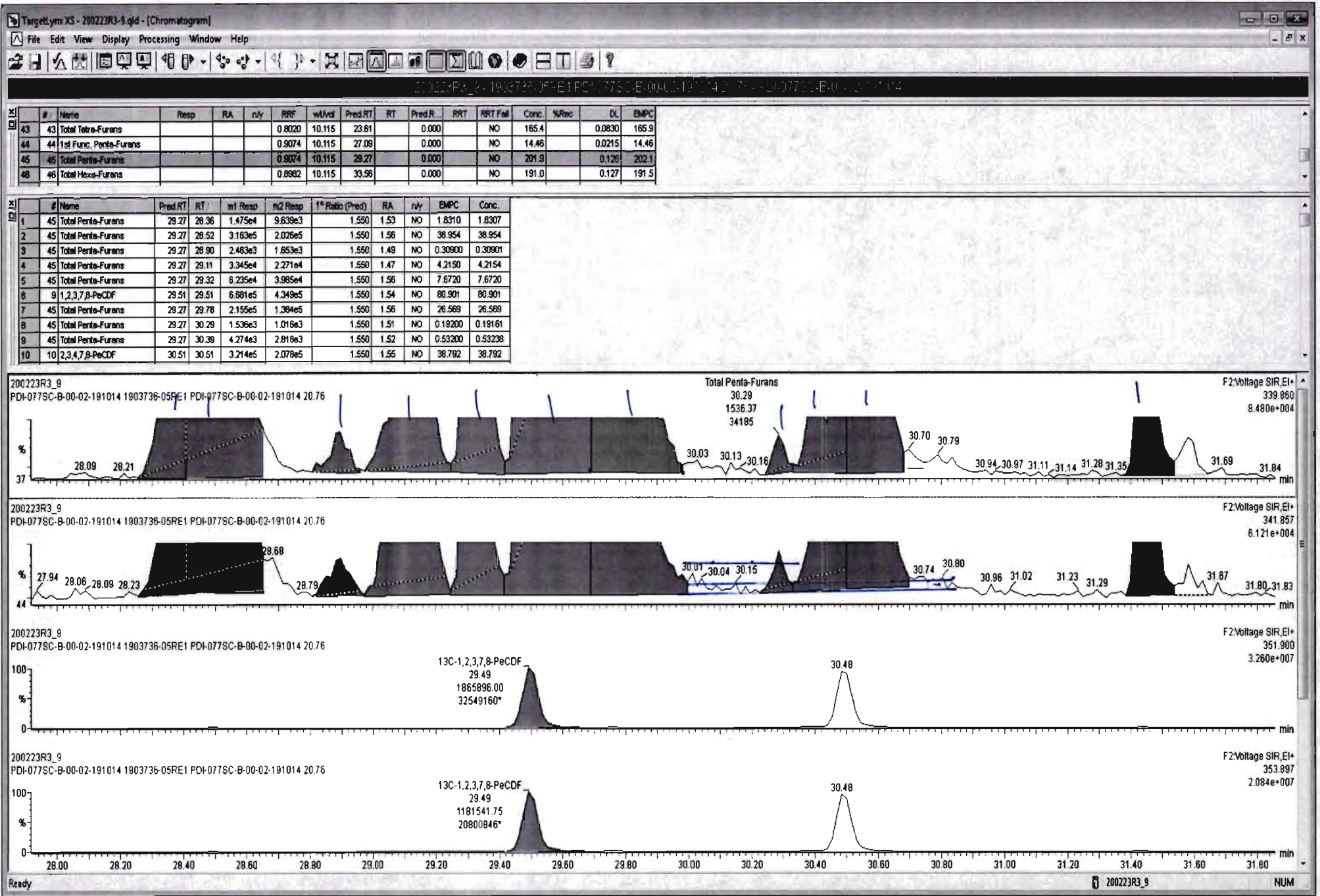
200223R3_9_1903736-05RE1 PDI-077SC-B-00-02-191014 20.76 PDI-077SC-B-00-02-191014

#	Name	Resp	RA	n/y	RRF	w/wd	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.115	29.27		0.000		NO	199.1		0.126	199.1
46	Total Hexa-Furans				0.8982	10.115	33.56		0.000		NO	191.0		0.127	191.5
47	Total Hepta-Furans				0.8511	10.115	37.83		0.000		NO	86.26		0.174	86.26
48	PFK1														

#	Name	Pred.RT	RT	m1 Reso	m2 Resp	I* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	29.27	29.36	1.475e4	9.639e3	1.550	1.53	NO	1.8069	1.8069
2	Total Penta-Furans	29.27	29.52	3.162e5	2.028e5	1.550	1.56	NO	38.453	38.453
3	Total Penta-Furans	29.27	29.90	2.463e3	1.653e3	1.550	1.49	NO	0.30500	0.30500
4	Total Penta-Furans	29.27	29.11	3.345e4	2.271e4	1.550	1.47	NO	4.1806	4.1806
5	Total Penta-Furans	29.27	29.32	6.235e4	3.985e4	1.550	1.56	NO	7.5723	7.5723
6	1,2,3,7,8-PeCDF	29.51	29.51	6.681e5	4.349e5	1.550	1.54	NO	78.872	78.872
7	Total Penta-Furans	29.27	29.78	2.155e5	1.384e5	1.550	1.56	NO	26.224	26.224
8	Total Penta-Furans	29.27	30.29	1.536e3	1.016e3	1.550	1.51	NO	0.18912	0.18912
9	Total Penta-Furans	29.27	30.39	4.352e3	2.818e3	1.550	1.54	NO	0.53129	0.53129
10	2,3,4,7,8-PeCDF	30.51	30.50	8.521e4	5.752e4	1.550	1.48	NO	10.462	10.462
11	Total Penta-Furans	29.27	30.51	2.360e5	1.497e5	1.550	1.58	NO	26.577	26.577
12	Total Penta-Furans	29.27	31.44	1.545e4	1.079e4	1.550	1.43	NO	1.9446	1.9446





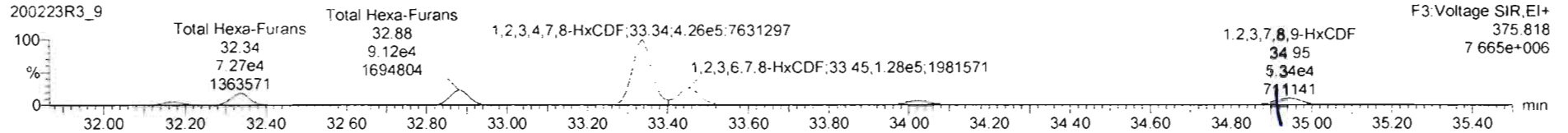
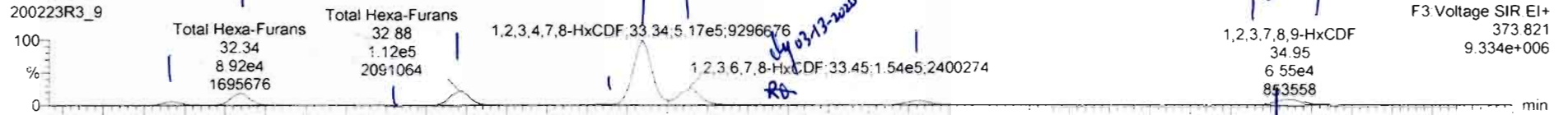


Dataset: Untitled

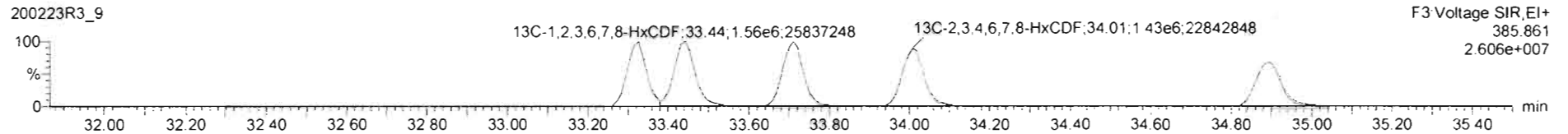
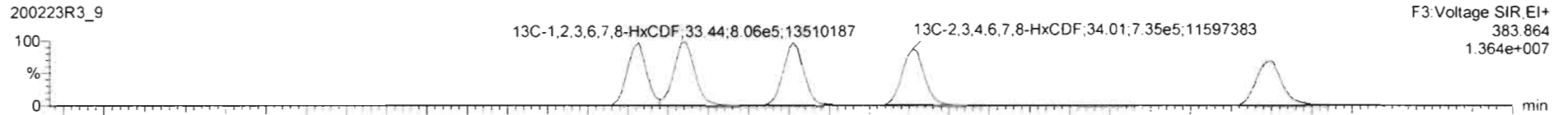
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

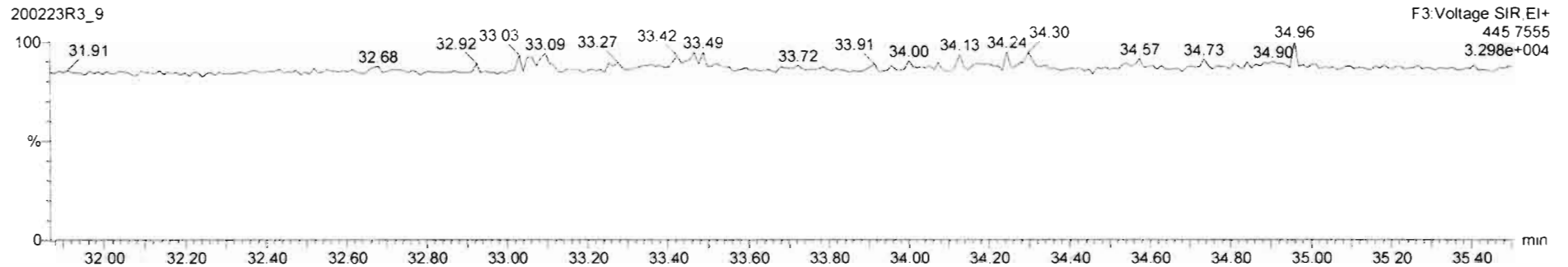
1,2,3,4,7,8-HxCDF

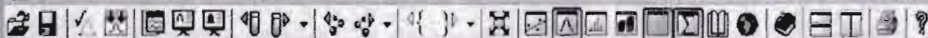


13C-1,2,3,4,7,8-HxCDF



DPE3

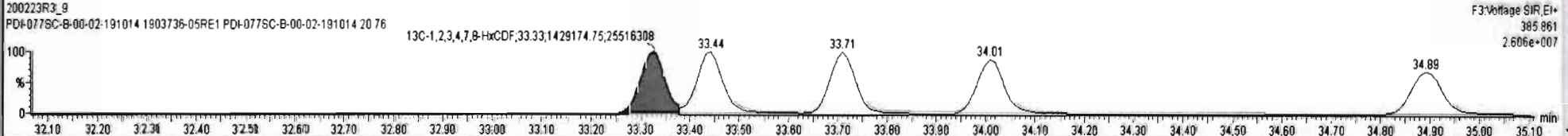
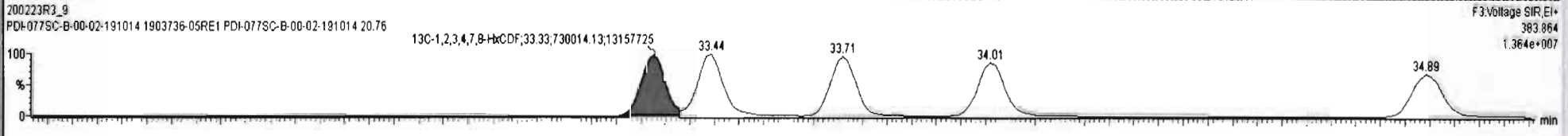
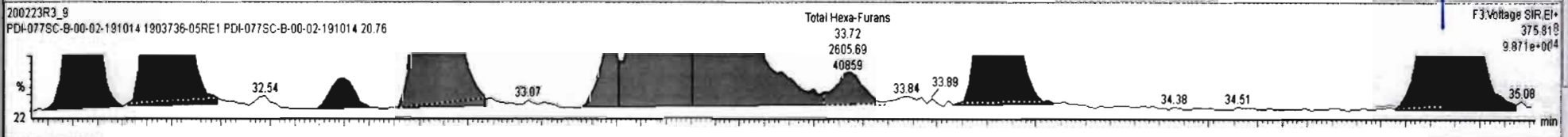
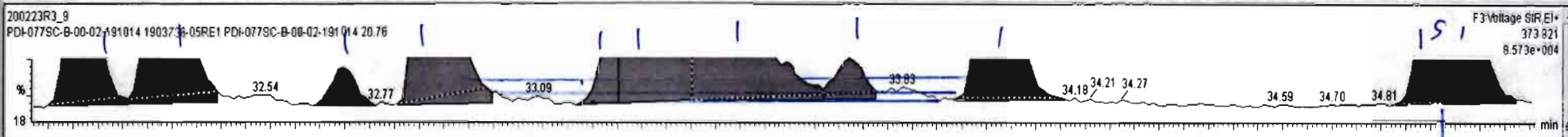


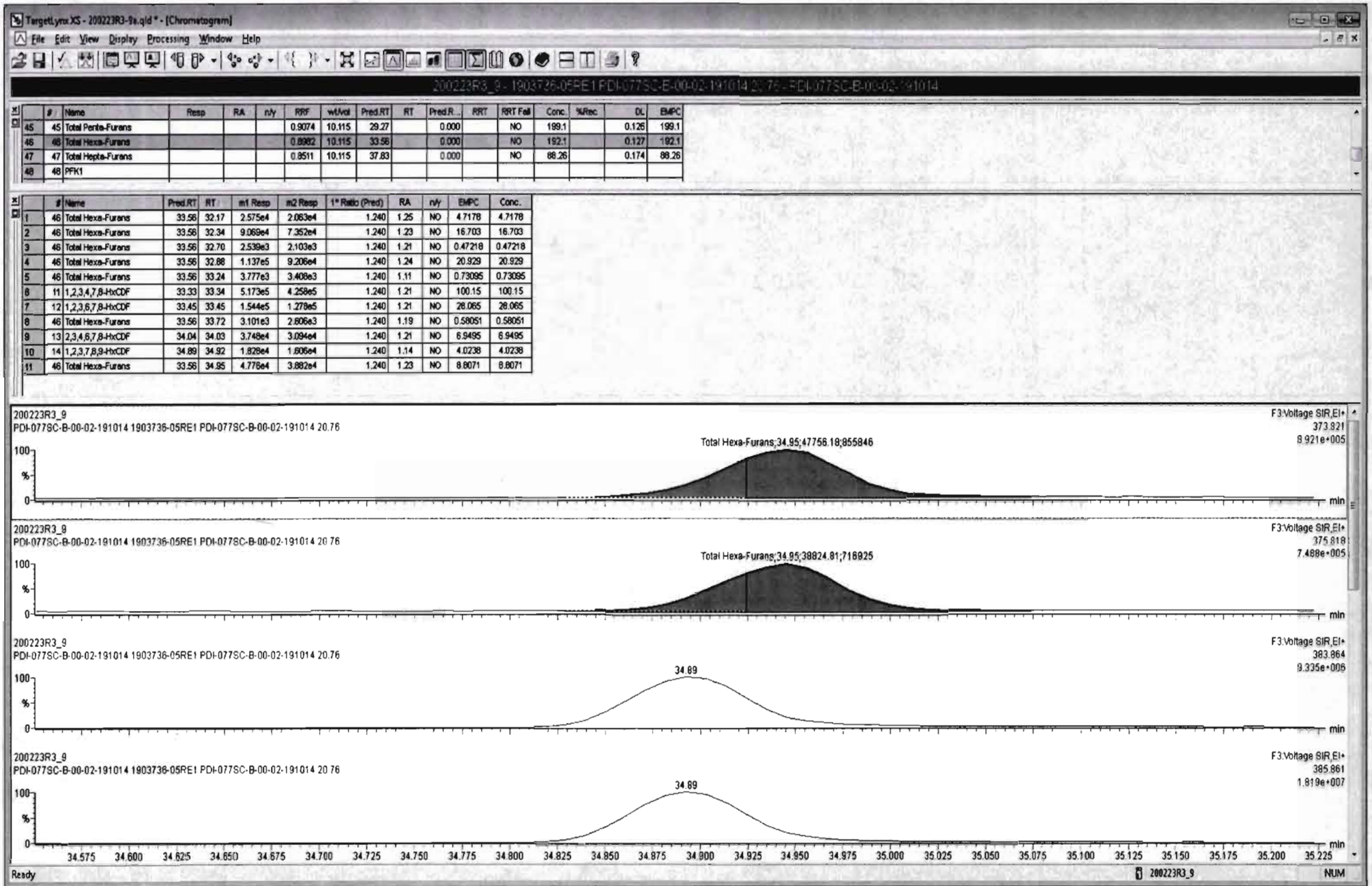


200223R3_9 - 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76 - PDI-077SC-B-00-02-191014

#	Name	Resp	RA	n/y	RRF	w/hcl	Pred_RT	RT	Pred_RL	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.115	29.27		0.000		NO	199.1		0.126	199.1
46	Total Hexa-Furans				0.8962	10.115	33.56		0.000		NO	192.1		0.127	192.1
47	Total Hepta-Furans				0.8511	10.115	37.83		0.000		NO	86.26		0.174	86.26
48	PFK1														

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.17	2.575e4	2.063e4	1.240	1.25	NO	4.7178	4.7178
2	46 Total Hexa-Furans	33.56	32.34	9.069e4	7.352e4	1.240	1.23	NO	16.703	16.703
3	46 Total Hexa-Furans	33.56	32.70	2.539e3	2.103e3	1.240	1.21	NO	0.47218	0.47218
4	46 Total Hexa-Furans	33.56	32.88	1.137e5	9.206e4	1.240	1.24	NO	20.929	20.929
5	46 Total Hexa-Furans	33.56	33.24	3.777e3	3.408e3	1.240	1.11	NO	0.73095	0.73095
6	11 1,2,3,4,7,8-HxCDF	33.33	33.34	5.173e5	4.258e5	1.240	1.21	NO	100.15	100.15
7	12 1,2,3,6,7,8-HxCDF	33.45	33.45	1.544e5	1.278e5	1.240	1.21	NO	28.065	28.065
8	46 Total Hexa-Furans	33.56	33.72	3.101e3	2.606e3	1.240	1.19	NO	0.58051	0.58051
9	13 2,3,4,6,7,8-HxCDF	34.04	34.03	3.748e4	3.094e4	1.240	1.21	NO	6.9495	6.9495
10	14 1,2,3,7,8-HxCDF	34.89	34.82	1.828e4	1.606e4	1.240	1.14	NO	4.0238	4.0238
11	46 Total Hexa-Furans	33.56	34.95	4.776e4	3.882e4	1.240	1.23	NO	8.8071	8.8071





Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

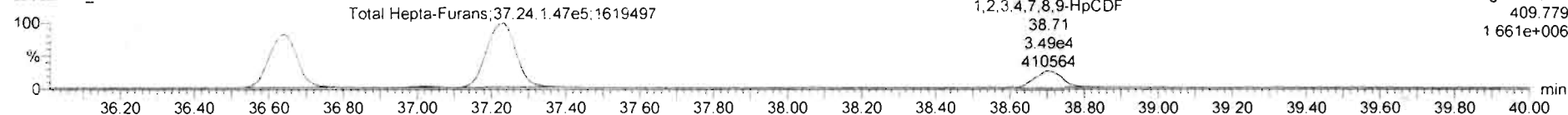
Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

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

200223R3_9

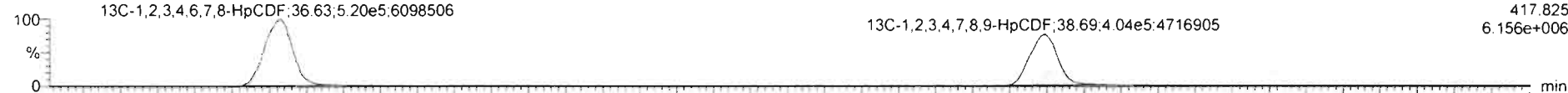


200223R3_9

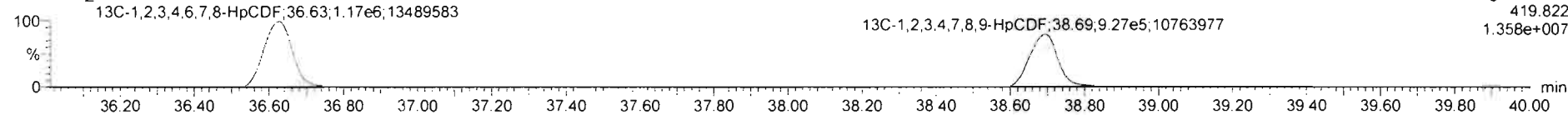


13C-1,2,3,4,6,7,8-HpCDF

200223R3_9

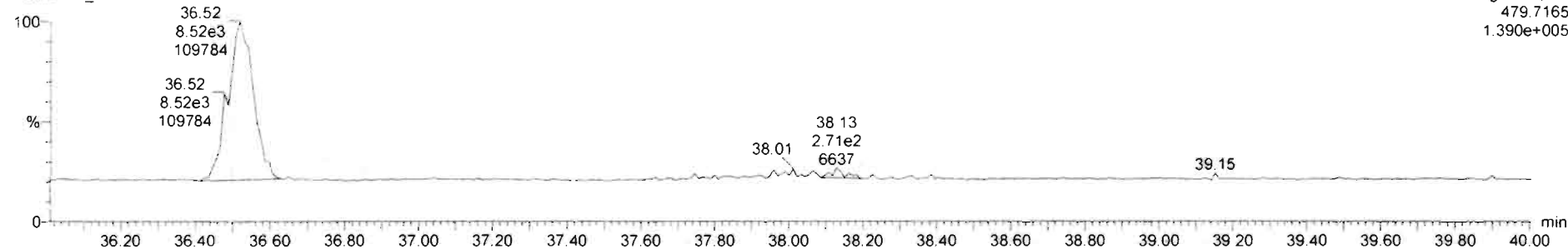


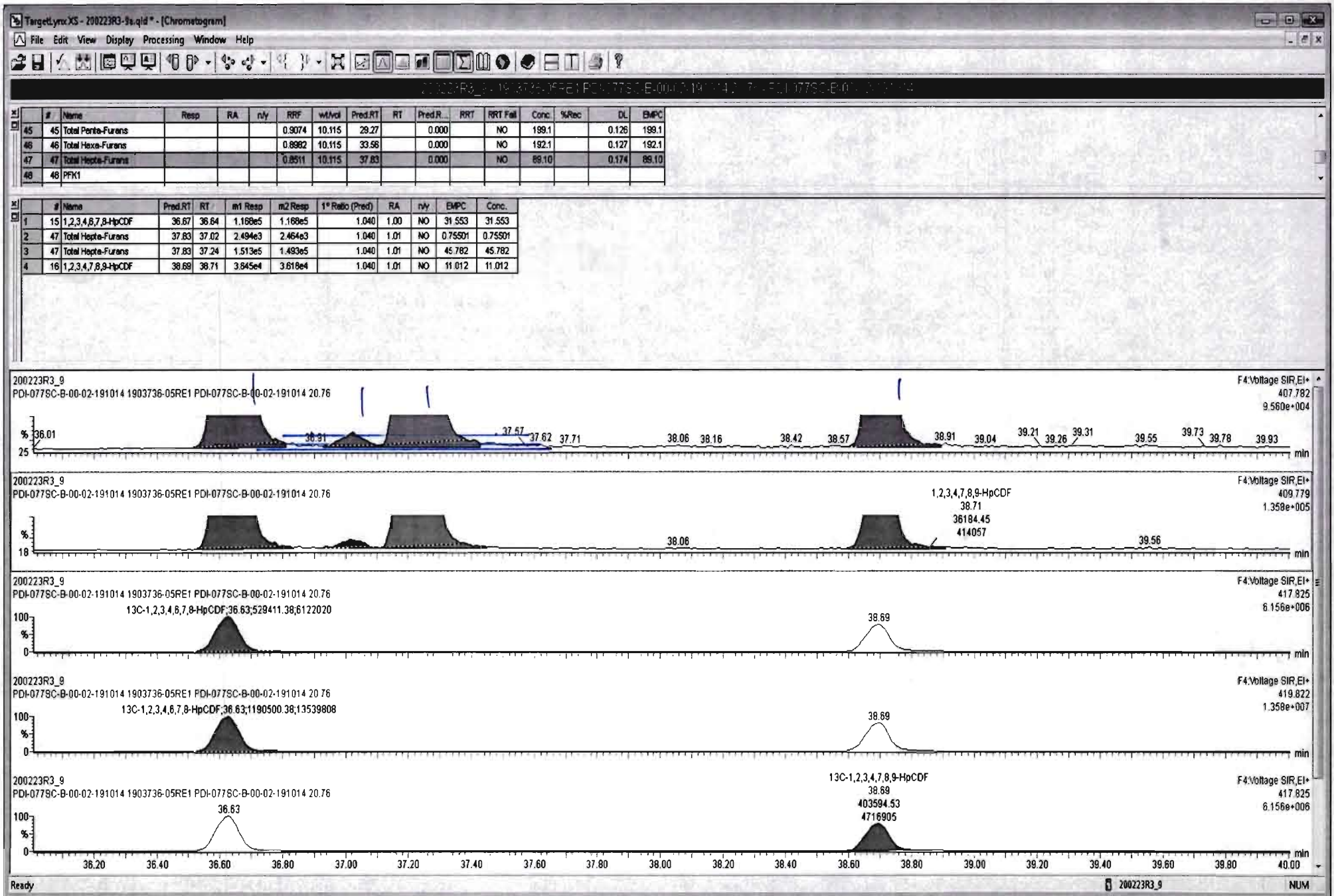
200223R3_9



DPE4

200223R3_9

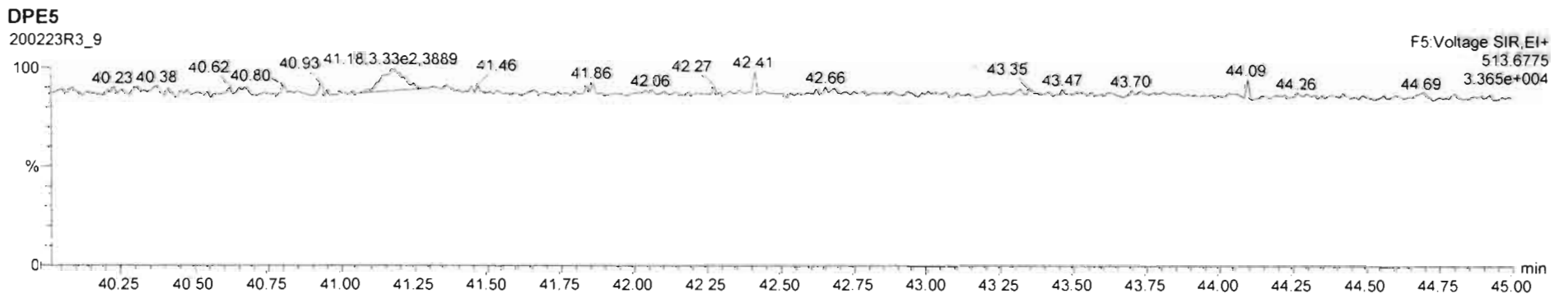
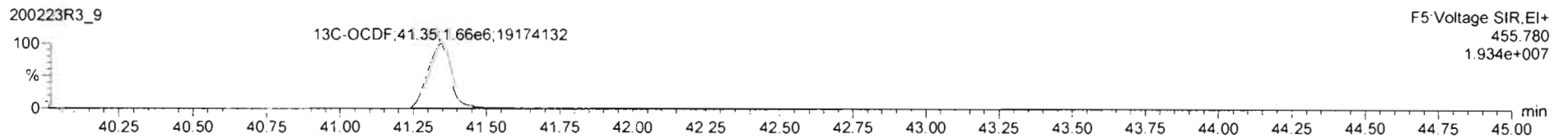
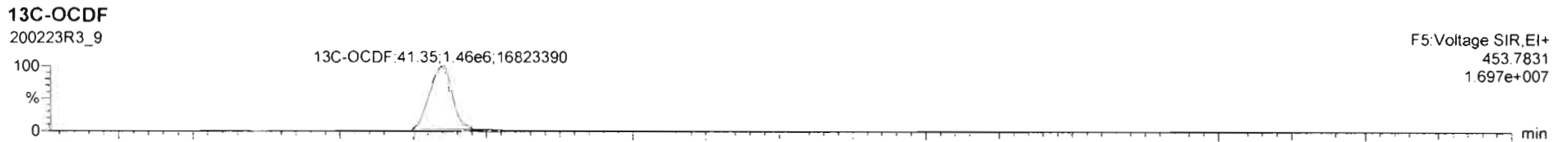
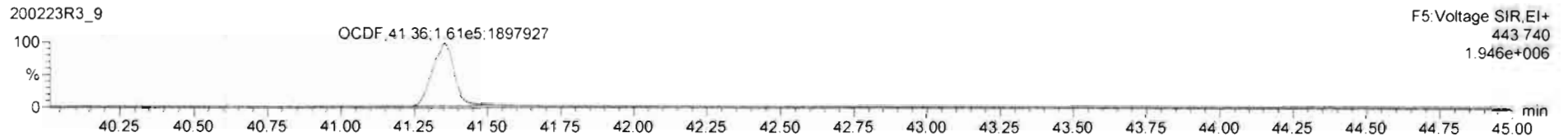
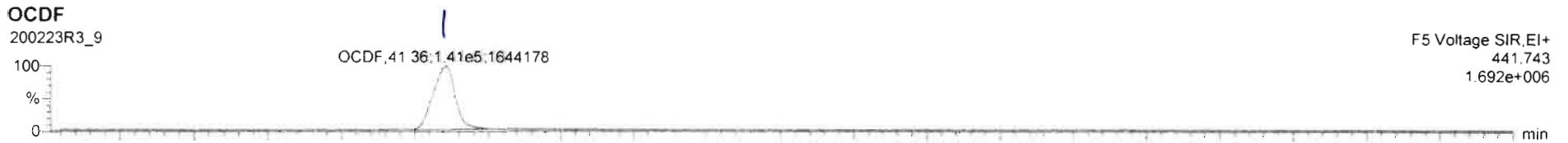




Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

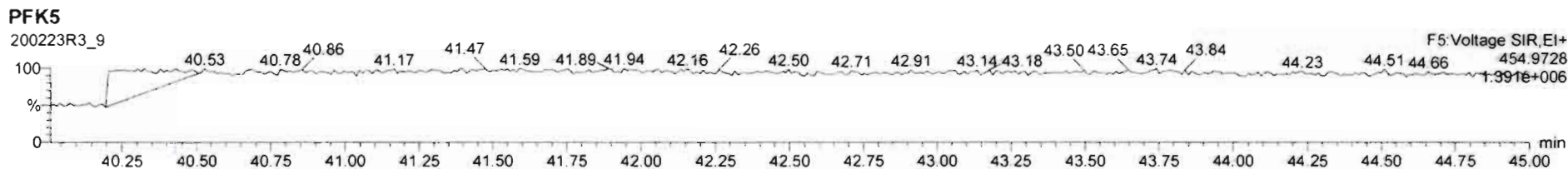
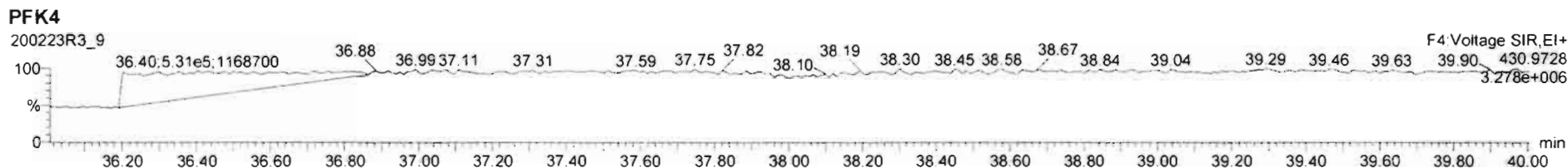
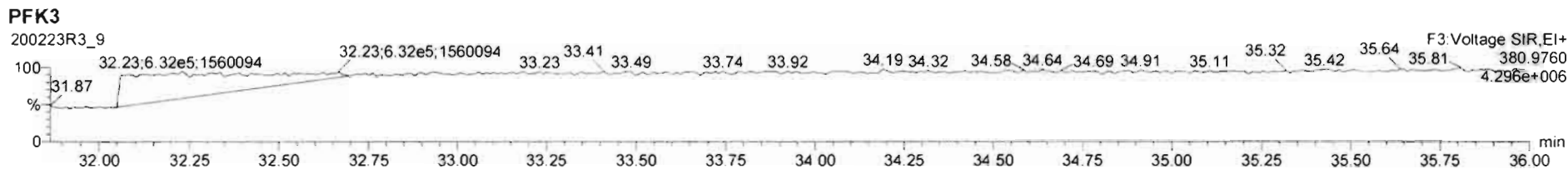
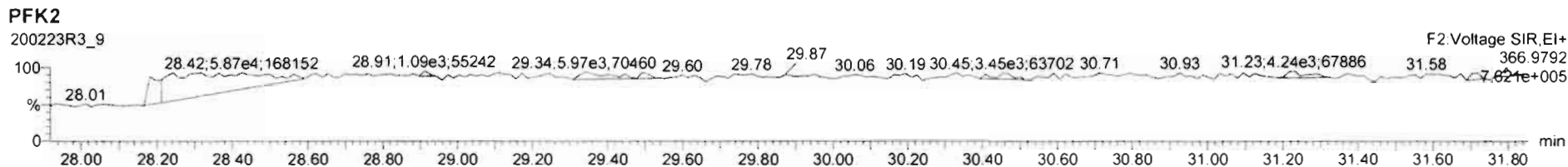
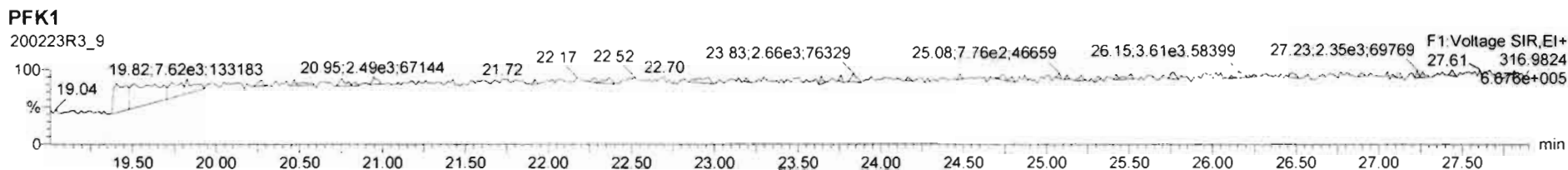


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_9, Date: 24-Feb-2020, Time: 09:54:39, ID: 1903736-05RE1 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014



Dataset: U:\VG12.PRO\Results\200223R3\200223R3-10.qld

Last Altered: Friday, March 13, 2020 14:56:48 Pacific Daylight Time

Printed: Friday, March 13, 2020 15:04:08 Pacific Daylight Time

dy 03-13-2020
pn 3/17/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

#	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	16704.982	0.697	NO	0.988	9.913	25.74	25.74	1.00	1.00	NO	1.170		0.0409	1.170
2	2 1,2,3,7,8-PeCDD	20822.045	0.673	NO	0.972	9.913	30.81	30.82	1.00	1.00	NO	1.798		0.0508	1.798
3	3 1,2,3,4,7,8-HxCDD	14888.372	1.245	NO	1.07	9.913	34.18	34.18	1.00	1.00	NO	1.505		0.111	1.505
4	4 1,2,3,6,7,8-HxCDD	100059.871	1.255	NO	0.921	9.913	34.28	34.28	1.00	1.00	NO	9.701		0.112	9.701
5	5 1,2,3,7,8,9-HxCDD	43148.086	1.307	NO	0.918	9.913	34.58	34.55	1.00	1.00	NO	4.519		0.125	4.519
6	6 1,2,3,4,6,7,8-HpCDD	1052162.0...	1.021	NO	0.923	9.913	38.06	38.06	1.00	1.00	NO	125.7		0.543	125.7
7	7 OCDD	7184522.5...	0.881	NO	0.975	9.913	41.15	41.15	1.00	1.00	NO	971.3		0.304	971.3
8	8 2,3,7,8-TCDF	754158.500	0.764	NO	0.802	9.913	24.80	24.79	1.00	1.00	NO	52.88	(48.09)	0.0724	52.88
9	9 1,2,3,7,8-PeCDF	897813.156	1.546	NO	0.907	9.913	29.51	29.51	1.00	1.00	NO	59.14		0.124	59.14
10	10 2,3,4,7,8-PeCDF	374621.875	1.593	NO	0.952	9.913	30.51	30.50	1.00	1.00	NO	24.94		0.114	24.94
11	11 1,2,3,4,7,8-HxCDF	916859.063	1.204	NO	0.862	9.913	33.32	33.33	1.00	1.00	NO	89.39		0.143	89.39
12	12 1,2,3,6,7,8-HxCDF	277328.742	1.214	NO	0.841	9.913	33.44	33.44	1.00	1.00	NO	25.33		0.143	25.33
13	13 2,3,4,6,7,8-HxCDF	73780.762	1.226	NO	0.898	9.913	34.03	34.02	1.00	1.00	NO	6.847		0.148	6.847
14	14 1,2,3,7,8,9-HxCDF	30540.776	1.153	NO	0.858	9.913	34.89	34.91	1.00	1.00	NO	3.387		0.207	3.387
15	15 1,2,3,4,6,7,8-HpCDF	332393.359	1.009	NO	0.851	9.913	36.65	36.63	1.00	1.00	NO	42.60		0.211	42.60
16	16 1,2,3,4,7,8,9-HpCDF	101799.515	1.035	NO	0.980	9.913	38.68	38.71	1.00	1.00	NO	14.49		0.233	14.49
17	17 OCDF	536464.297	0.870	NO	0.806	9.913	41.31	41.33	1.00	1.00	NO	76.46		0.161	76.46
18	18 13C-2,3,7,8-TCDD	2914669.3...	0.782	NO	1.20	9.913	25.69	25.70	1.03	1.03	NO	199.0	98.6	0.0768	
19	19 13C-1,2,3,7,8-PeCDD	2402805.2...	0.632	NO	0.967	9.913	30.43	30.79	1.22	1.23	NO	203.4	101	0.185	
20	20 13C-1,2,3,4,7,8-HxCDD	1863490.3...	1.330	NO	0.874	9.913	34.17	34.17	1.01	1.01	NO	176.9	87.7	0.194	
21	21 13C-1,2,3,6,7,8-HxCDD	2258969.8...	1.208	NO	1.05	9.913	34.27	34.28	1.02	1.02	NO	179.2	88.8	0.163	
22	22 13C-1,2,3,7,8,9-HxCDD	2098084.3...	1.247	NO	0.974	9.913	34.58	34.54	1.03	1.02	NO	178.6	88.5	0.174	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1830022.1...	1.063	NO	0.747	9.913	38.15	38.04	1.13	1.13	NO	203.1	101	0.363	
24	24 13C-OCDD	3062551.2...	0.899	NO	0.707	9.913	41.05	41.15	1.22	1.22	NO	359.5	89.1	0.224	
25	25 13C-2,3,7,8-TCDF	3587529.6...	0.783	NO	1.07	9.913	24.87	24.78	0.99	0.99	NO	191.4	94.9	0.164	
26	26 13C-1,2,3,7,8-PeCDF	3375322.2...	1.584	NO	1.00	9.913	29.46	29.49	1.18	1.18	NO	191.5	94.9	0.231	
27	27 13C-2,3,4,7,8-PeCDF	3184649.2...	1.577	NO	0.962	9.913	30.42	30.48	1.21	1.22	NO	188.2	93.3	0.241	
28	28 13C-1,2,3,4,7,8-HxCDF	2399790.0...	0.518	NO	1.05	9.913	33.30	33.32	0.99	0.99	NO	189.7	94.0	0.293	
29	29 13C-1,2,3,6,7,8-HxCDF	2624751.3...	0.521	NO	1.19	9.913	33.40	33.43	0.99	0.99	NO	183.0	90.7	0.258	
30	30 13C-2,3,4,6,7,8-HxCDF	2420229.3...	0.515	NO	1.07	9.913	34.01	34.00	1.01	1.01	NO	188.3	93.3	0.288	
31	31 13C-1,2,3,7,8,9-HxCDF	2120635.3...	0.512	NO	0.922	9.913	34.91	34.89	1.04	1.04	NO	190.7	94.5	0.333	

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-10.qld

Last Altered: Friday, March 13, 2020 14:56:48 Pacific Daylight Time

Printed: Friday, March 13, 2020 15:04:08 Pacific Daylight Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

#	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	1849592.8...	0.452	NO	0.767	9.913	36.67	36.62	1.09	1.09	NO	200.0	99.1	0.393	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1446205.5...	0.447	NO	0.552	9.913	38.69	38.68	1.15	1.15	NO	217.2	108	0.546	
34	34 13C-OCDF	3514536.3...	0.882	NO	0.789	9.913	41.28	41.31	1.23	1.23	NO	369.2	91.5	0.284	
35	35 37Cl-2,3,7,8-TCDD	1110182.875			1.18	9.913	25.72	25.74	1.03	1.03	NO	77.23	95.7	0.0418	
36	36 13C-1,2,3,4-TCDD	2465577.8...	0.791	NO	1.00	9.913	25.11	25.05	1.00	1.00	NO	201.7	100	0.0920	
37	37 13C-1,2,3,4-TCDF	3549548.3...	0.786	NO	1.00	9.913	23.37	23.28	1.00	1.00	NO	201.7	100	0.175	
38	38 13C-1,2,3,4,6,9-HxCDF	2432484.6...	0.513	NO	1.00	9.913	33.71	33.70	1.00	1.00	NO	201.7	100	0.307	
39	39 Total Tetra-Dioxins				0.988	9.913	24.62		0.00		NO	11.82		0.0409	11.88
40	40 Total Penta-Dioxins				0.972	9.913	29.96		0.00		NO	15.77		0.0508	15.77
41	41 Total Hexa-Dioxins				0.921	9.913	33.63		0.00		NO	78.04		0.121	78.04
42	42 Total Hepta-Dioxins				0.923	9.913	37.64		0.00		NO	259.1		0.543	259.1
43	43 Total Tetra-Furans				0.802	9.913	23.61		0.00		NO	179.4		0.0724	183.7
44	44 1st Func. Penta-Furans				0.907	9.913	27.09		0.00		NO	17.16		0.0284	17.16
45	45 Total Penta-Furans				0.907	9.913	29.27		0.00		NO	160.5		0.122	160.7
46	46 Total Hexa-Furans				0.898	9.913	33.56		0.00		NO	187.7		0.152	187.7
47	47 Total Hepta-Furans				0.851	9.913	37.83		0.00		NO	130.4		0.236	130.4

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-10.qld

Last Altered: Friday, March 13, 2020 14:56:48 Pacific Daylight Time

Printed: Friday, March 13, 2020 15:04:22 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	3.44e4	2.91e6	0.784	NO	24.62	25.45	2.413	2.413
2	39 Total Tetra-Dioxins	8.94e2	2.91e6	0.668	NO	24.62	25.15	0.06265	0.06265
3	39 Total Tetra-Dioxins	5.03e3	2.91e6	0.871	NO	24.62	25.00	0.3523	0.3523
4	39 Total Tetra-Dioxins	4.16e3	2.91e6	0.794	NO	24.62	24.64	0.2913	0.2913
5	39 Total Tetra-Dioxins	4.54e3	2.91e6	0.797	NO	24.62	24.45	0.3183	0.3183
6	39 Total Tetra-Dioxins	3.06e3	2.91e6	0.779	NO	24.62	24.18	0.2147	0.2147
7	39 Total Tetra-Dioxins	1.32e4	2.91e6	0.755	NO	24.62	23.95	0.9256	0.9256
8	39 Total Tetra-Dioxins	9.84e3	2.91e6	0.741	NO	24.62	23.73	0.6892	0.6892
9	39 Total Tetra-Dioxins	5.14e3	2.91e6	0.801	NO	24.62	23.46	0.3600	0.3600
10	39 Total Tetra-Dioxins	7.44e3	2.91e6	0.803	NO	24.62	22.52	0.5211	0.5211
11	39 Total Tetra-Dioxins	1.77e4	2.91e6	0.790	NO	24.62	22.01	1.242	1.242
12	39 Total Tetra-Dioxins	3.99e4	2.91e6	0.747	NO	24.62	21.59	2.793	2.793
13	39 Total Tetra-Dioxins	1.45e3	2.91e6	0.850	NO	24.62	26.74	0.1017	0.1017
14	39 Total Tetra-Dioxins	6.91e2	2.91e6	0.821	NO	24.62	26.18	0.04839	0.04839
15	39 Total Tetra-Dioxins	4.48e3	2.91e6	0.778	NO	24.62	26.07	0.3135	0.3135
16	1 2,3,7,8-TCDD	1.67e4	2.91e6	0.697	NO	25.74	25.74	1.170	1.170
17	39 Total Tetra-Dioxins	0.00e0	2.91e6	1.010	YES	24.62	25.59	0.0000	0.05849

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-10.qld

Last Altered: Friday, March 13, 2020 14:56:48 Pacific Daylight Time

Printed: Friday, March 13, 2020 15:04:22 Pacific Daylight Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	2.39e4	2.40e6	0.607	NO	29.96	30.03	2.066	2.066
2	40 Total Penta-Dioxins	1.25e4	2.40e6	0.581	NO	29.96	29.81	1.077	1.077
3	40 Total Penta-Dioxins	2.39e4	2.40e6	0.566	NO	29.96	29.72	2.061	2.061
4	40 Total Penta-Dioxins	2.34e4	2.40e6	0.619	NO	29.96	29.55	2.018	2.018
5	40 Total Penta-Dioxins	1.22e4	2.40e6	0.666	NO	29.96	29.05	1.057	1.057
6	40 Total Penta-Dioxins	5.07e4	2.40e6	0.590	NO	29.96	28.56	4.381	4.381
7	40 Total Penta-Dioxins	5.96e3	2.40e6	0.686	NO	29.96	31.20	0.5145	0.5145
8	2 1,2,3,7,8-PeCDD	2.08e4	2.40e6	0.673	NO	30.81	30.82	1.798	1.798
9	40 Total Penta-Dioxins	4.74e3	2.40e6	0.684	NO	29.96	30.38	0.4093	0.4093
10	40 Total Penta-Dioxins	4.48e3	2.40e6	0.655	NO	29.96	30.88	0.3867	0.3867

Hexa-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	4.31e4	2.10e6	1.307	NO	34.58	34.55	4.519	4.519
2	4 1,2,3,6,7,8-HxCDD	1.00e5	2.26e6	1.255	NO	34.28	34.28	9.701	9.701
3	3 1,2,3,4,7,8-HxCDD	1.49e4	1.86e6	1.245	NO	34.18	34.18	1.505	1.505
4	41 Total Hexa-Dioxins	3.41e5	0.00e0	1.246	NO	33.63	33.52	35.97	35.97
5	41 Total Hexa-Dioxins	2.45e4	0.00e0	1.240	NO	33.63	33.26	2.589	2.589
6	41 Total Hexa-Dioxins	2.07e5	0.00e0	1.236	NO	33.63	32.71	21.85	21.85
7	41 Total Hexa-Dioxins	1.07e4	0.00e0	1.275	NO	33.63	33.61	1.128	1.128
8	41 Total Hexa-Dioxins	7.41e3	0.00e0	1.173	NO	33.63	34.49	0.7822	0.7822

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	1.05e6	1.83e6	1.021	NO	38.06	38.06	125.7	125.7
2	42 Total Hepta-Dioxins	1.12e6	1.83e6	1.021	NO	37.64	37.02	133.4	133.4

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-10.qld

Last Altered: Friday, March 13, 2020 14:56:48 Pacific Daylight Time

Printed: Friday, March 13, 2020 15:04:22 Pacific Daylight Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	5.74e4	3.59e6	0.743	NO	23.61	22.40	4.026	4.026
2	43 Total Tetra-Furans	2.95e4	3.59e6	0.812	NO	23.61	22.20	2.068	2.068
3	43 Total Tetra-Furans	7.49e4	3.59e6	0.759	NO	23.61	22.04	5.255	5.255
4	43 Total Tetra-Furans	2.35e5	3.59e6	0.760	NO	23.61	21.57	16.48	16.48
5	43 Total Tetra-Furans	8.65e4	3.59e6	0.754	NO	23.61	21.17	6.067	6.067
6	43 Total Tetra-Furans	2.07e5	3.59e6	0.756	NO	23.61	20.63	14.49	14.49
7	43 Total Tetra-Furans	2.81e4	3.59e6	0.728	NO	23.61	20.06	1.972	1.972
8	43 Total Tetra-Furans	1.51e4	3.59e6	0.717	NO	23.61	19.57	1.058	1.058
9	43 Total Tetra-Furans	1.19e4	3.59e6	0.771	NO	23.61	25.45	0.8340	0.8340
10	43 Total Tetra-Furans	6.31e4	3.59e6	0.775	NO	23.61	25.20	4.425	4.425
11	8 2,3,7,8-TCDF	7.54e5	3.59e6	0.764	NO	24.80	24.79	52.88	52.88
12	43 Total Tetra-Furans	9.78e4	3.59e6	0.769	NO	23.61	24.69	6.858	6.858
13	43 Total Tetra-Furans	1.10e4	3.59e6	0.862	NO	23.61	24.57	0.7678	0.7678
14	43 Total Tetra-Furans	1.15e4	3.59e6	0.776	NO	23.61	24.34	0.8085	0.8085
15	43 Total Tetra-Furans	3.41e4	3.59e6	0.797	NO	23.61	24.12	2.391	2.391
16	43 Total Tetra-Furans	6.22e5	3.59e6	0.769	NO	23.61	23.82	43.62	43.62
17	43 Total Tetra-Furans	1.37e5	3.59e6	0.716	NO	23.61	23.30	9.614	9.614
18	43 Total Tetra-Furans	5.47e4	3.59e6	0.875	NO	23.61	23.18	3.833	3.833
19	43 Total Tetra-Furans	1.76e4	3.59e6	0.803	NO	23.61	23.00	1.235	1.235
20	43 Total Tetra-Furans	1.04e4	3.59e6	0.745	NO	23.61	22.85	0.7308	0.7308
21	43 Total Tetra-Furans	0.00e0	3.59e6	0.887	YES	23.61	26.87	0.0000	4.337

Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	2.53e5	0.00e0	1.580	NO	27.09	26.87	17.16	17.16

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-10.qld

Last Altered: Friday, March 13, 2020 14:56:48 Pacific Daylight Time
 Printed: Friday, March 13, 2020 15:04:22 Pacific Daylight Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	9 1,2,3,7,8-PeCDF	8.98e5	3.38e6	1.546	NO	29.51	29.51	59.14	59.14
2	45 Total Penta-Furans	8.98e4	0.00e0	1.562	NO	29.27	29.31	6.084	6.084 P
3	45 Total Penta-Furans	7.58e4	0.00e0	1.565	NO	29.27	29.10	5.137	5.137
4	45 Total Penta-Furans	5.82e3	0.00e0	1.330	NO	29.27	28.88	0.3943	0.3943
5	45 Total Penta-Furans	4.84e5	0.00e0	1.545	NO	29.27	28.50	32.81	32.81
6	45 Total Penta-Furans	3.60e4	0.00e0	1.588	NO	29.27	28.35	2.438	2.438
7	45 Total Penta-Furans	2.39e4	0.00e0	1.581	NO	29.27	31.43	1.620	1.620
8	45 Total Penta-Furans	1.11e5	0.00e0	1.482	NO	29.27	30.48	7.519	7.519
9	45 Total Penta-Furans	1.29e4	0.00e0	1.708	NO	29.27	30.39	0.8776	0.8776
10	45 Total Penta-Furans	2.89e5	0.00e0	1.554	NO	29.27	29.77	19.58	19.58
11	10 2,3,4,7,8-PeCDF	3.75e5	3.18e6	1.593	NO	30.51	30.50	24.94	24.94
12	45 Total Penta-Furans	0.00e0	0.00e0	2.353	YES	29.27	30.29	0.0000	0.1319

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	8.44e3	0.00e0	1.138	NO	33.56	33.23	0.7924	0.7924
2	46 Total Hexa-Furans	2.92e5	0.00e0	1.203	NO	33.56	32.87	27.47	27.47
3	46 Total Hexa-Furans	6.46e3	0.00e0	1.303	NO	33.56	32.69	0.6071	0.6071
4	46 Total Hexa-Furans	2.08e5	0.00e0	1.209	NO	33.56	32.33	19.57	19.57
5	46 Total Hexa-Furans	6.58e4	0.00e0	1.197	NO	33.56	32.15	6.179	6.179
6	14 1,2,3,7,8,9-HxCDF	3.05e4	2.12e6	1.153	NO	34.89	34.91	3.387	3.387
7	13 2,3,4,6,7,8-HxCDF	7.38e4	2.42e6	1.226	NO	34.03	34.02	6.847	6.847
8	46 Total Hexa-Furans	8.85e3	0.00e0	1.084	NO	33.56	33.71	0.8309	0.8309
9	12 1,2,3,6,7,8-HxCDF	2.77e5	2.62e6	1.214	NO	33.44	33.44	25.33	25.33
10	11 1,2,3,4,7,8-HxCDF	9.17e5	2.40e6	1.204	NO	33.32	33.33	89.39	89.39
11	46 Total Hexa-Furans	7.81e4	0.00e0	1.273	NO	33.56	34.94	7.335	7.335

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-10.qld

Last Altered: Friday, March 13, 2020 14:56:48 Pacific Daylight Time

Printed: Friday, March 13, 2020 15:04:22 Pacific Daylight Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	1.02e5	1.45e6	1.035	NO	38.68	38.71	14.49	14.49
2	47 Total Hepta-Furans	5.00e5	0.00e0	1.006	NO	37.83	37.22	71.93	71.93
3	47 Total Hepta-Furans	9.39e3	0.00e0	1.079	NO	37.83	37.02	1.351	1.351
4	15 1,2,3,4,6,7,8-HpCDF	3.32e5	1.85e6	1.009	NO	36.65	36.63	42.60	42.60

Dataset: Untitled

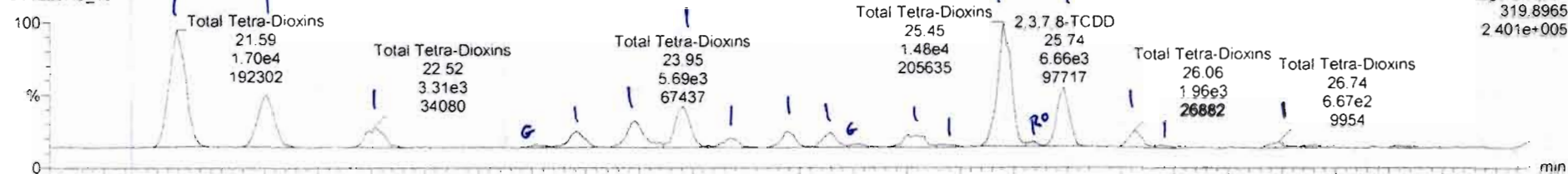
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

dy 03-02-2020

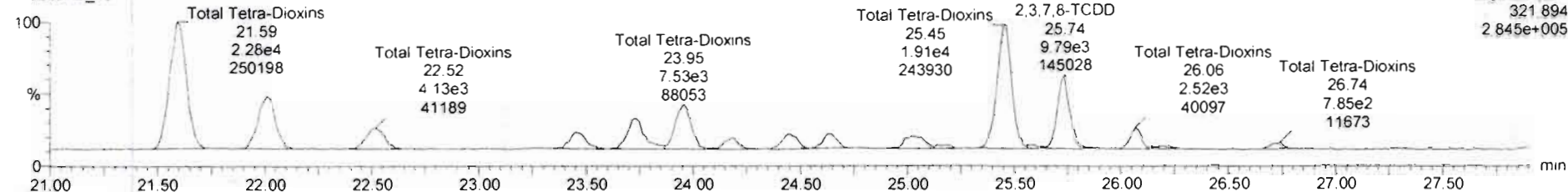
Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

2,3,7,8-TCDD

200223R3_10

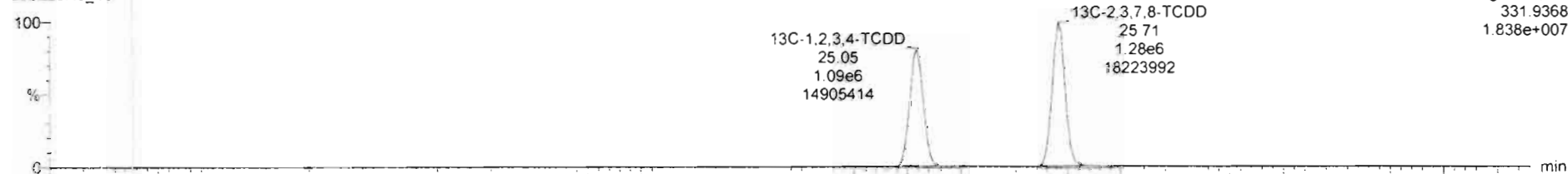


200223R3_10

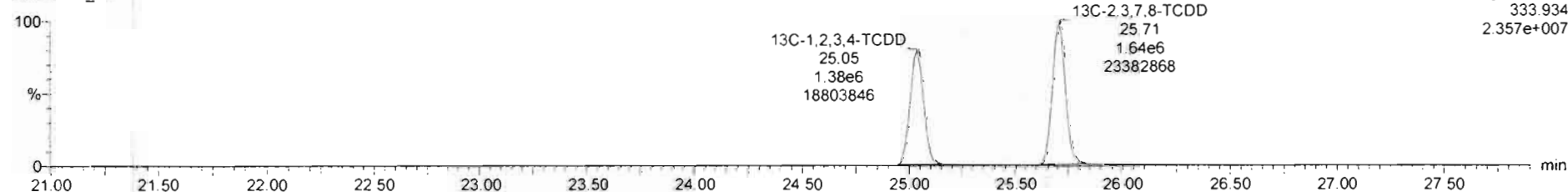


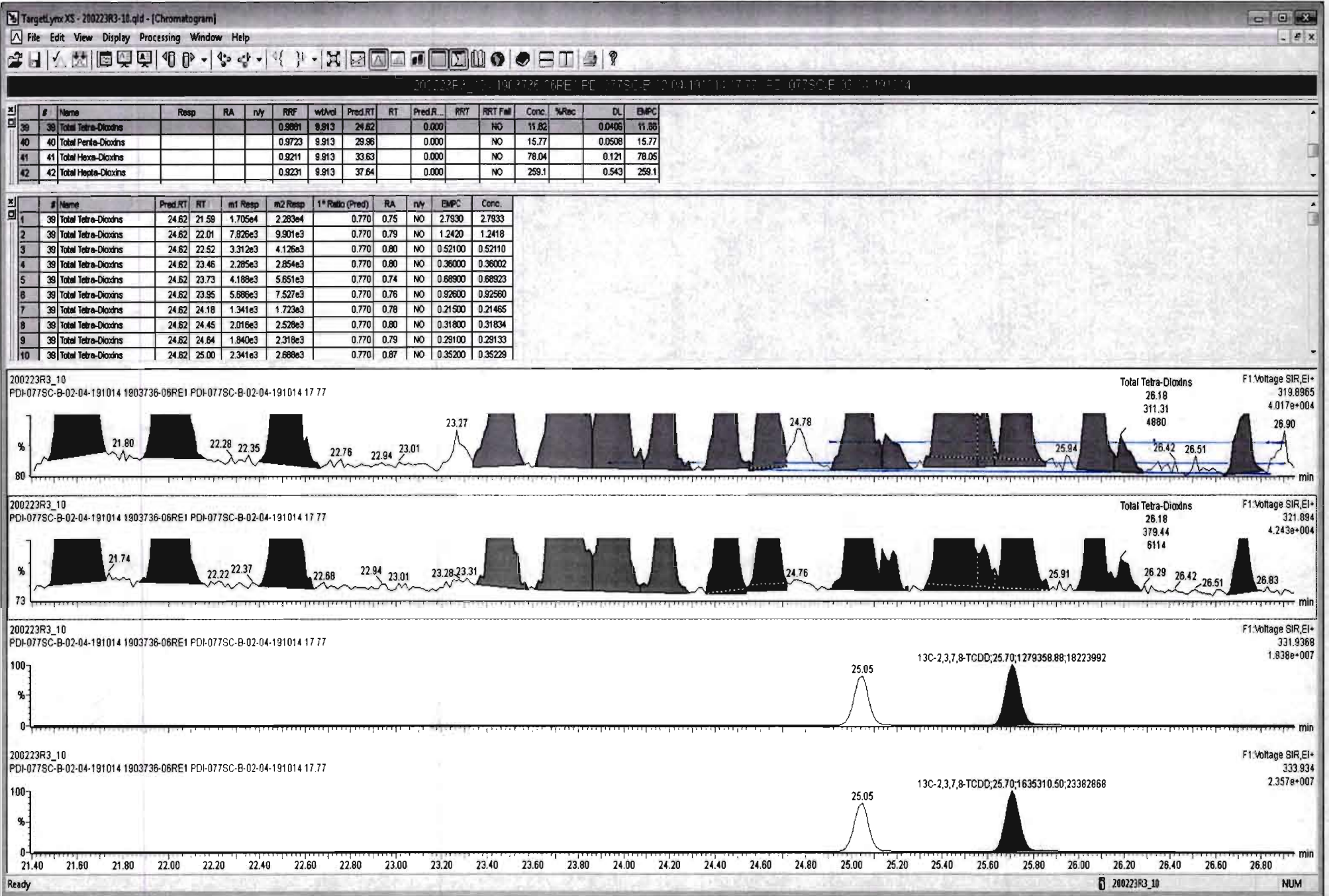
13C-2,3,7,8-TCDD

200223R3_10



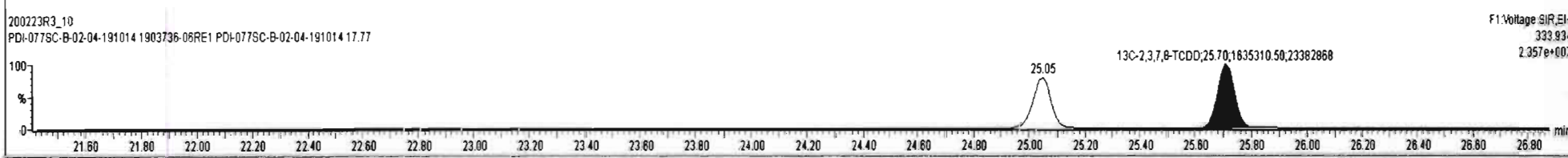
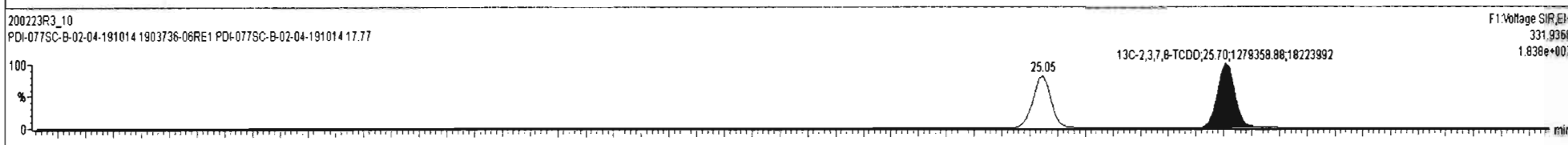
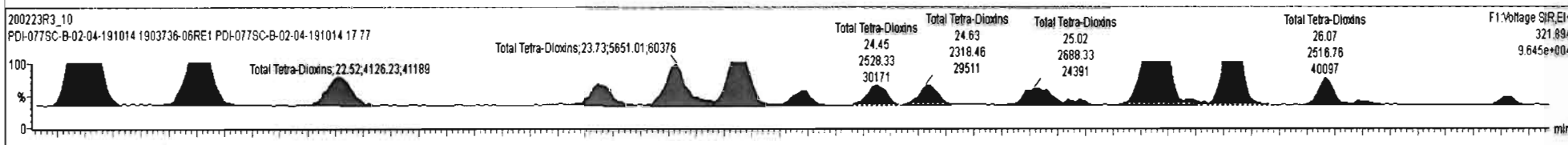
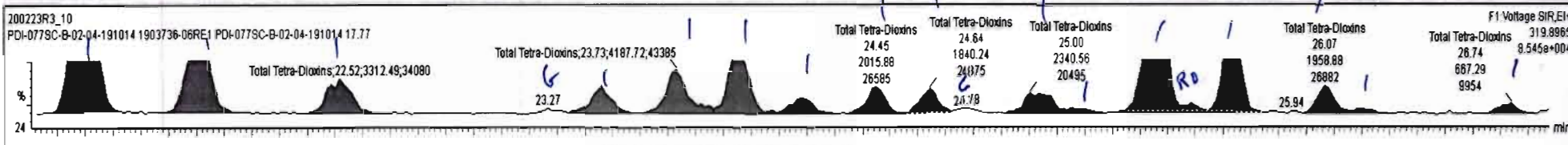
200223R3_10





#	Name	Resp	RA	n/y	RRF	wtAdj	Pred RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	9.913	24.62		0.000		NO	11.82		0.0409	11.88
40	Total Penta-Dioxins				0.9723	9.913	29.96		0.000		NO	13.73		0.0508	15.54

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	24.62	21.59	1.705e4	2.283e4	0.770	0.75	NO	2.7933	2.7933
2	Total Tetra-Dioxins	24.62	22.01	7.826e3	9.901e3	0.770	0.79	NO	1.2418	1.2418
3	Total Tetra-Dioxins	24.62	22.52	3.312e3	4.126e3	0.770	0.80	NO	0.52110	0.52110
4	Total Tetra-Dioxins	24.62	23.46	2.285e3	2.854e3	0.770	0.80	NO	0.38002	0.38002
5	Total Tetra-Dioxins	24.62	23.73	4.188e3	5.651e3	0.770	0.74	NO	0.68923	0.68923
6	Total Tetra-Dioxins	24.62	23.95	5.688e3	7.527e3	0.770	0.76	NO	0.92580	0.92580
7	Total Tetra-Dioxins	24.62	24.18	1.341e3	1.723e3	0.770	0.78	NO	0.21465	0.21465
8	Total Tetra-Dioxins	24.62	24.45	2.016e3	2.528e3	0.770	0.80	NO	0.31834	0.31834
9	Total Tetra-Dioxins	24.62	24.64	1.840e3	2.318e3	0.770	0.79	NO	0.29133	0.29133
10	Total Tetra-Dioxins	24.62	25.00	2.341e3	2.888e3	0.770	0.87	NO	0.35229	0.35229
11	Total Tetra-Dioxins	24.62	25.15	3.583e2	5.360e2	0.770	0.67	NO	0.052649	0.052649
12	Total Tetra-Dioxins	24.62	25.45	1.513e4	1.831e4	0.770	0.78	NO	2.4131	2.4131
13	Total Tetra-Dioxins	24.62	25.59	4.754e2	4.717e2	0.770	1.01	YES	0.058494	0.00000
14	1,2,3,7,8-TCDD	25.74	25.74	6.859e3	9.846e3	0.770	0.70	NO	1.1702	1.1702
15	Total Tetra-Dioxins	24.62	26.07	1.959e3	2.517e3	0.770	0.78	NO	0.31353	0.31353
16	Total Tetra-Dioxins	24.62	26.18	3.113e2	3.794e2	0.770	0.82	NO	0.048389	0.048389
17	Total Tetra-Dioxins	24.62	26.74	6.873e2	7.864e2	0.770	0.85	NO	0.10475	0.10475



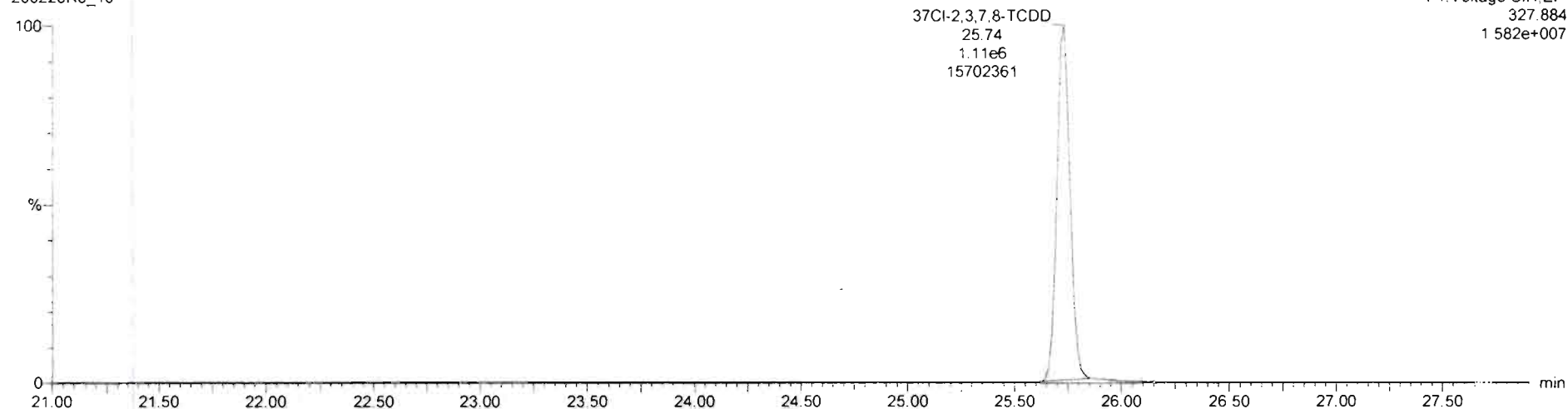
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

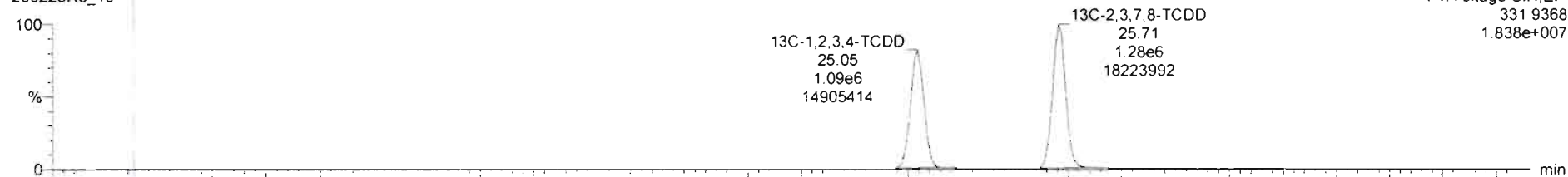
37Cl-2,3,7,8-TCDD

200223R3_10

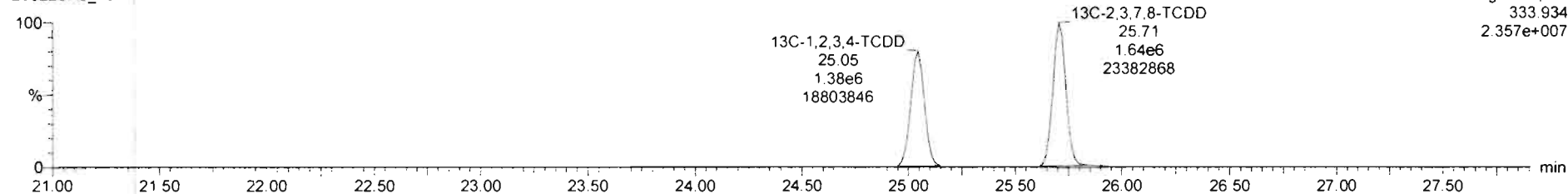


13C-1,2,3,4-TCDD

200223R3_10



200223R3_10



Dataset: Untitled

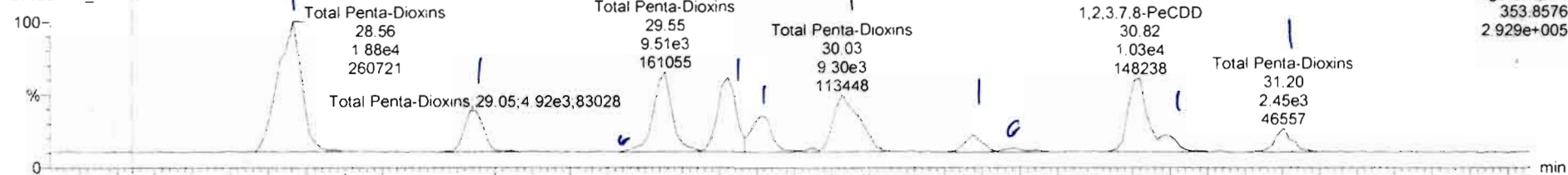
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

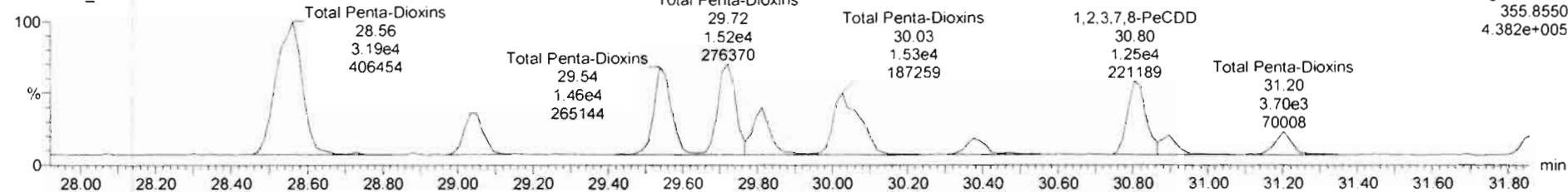
Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

1,2,3,7,8-PeCDD

200223R3_10

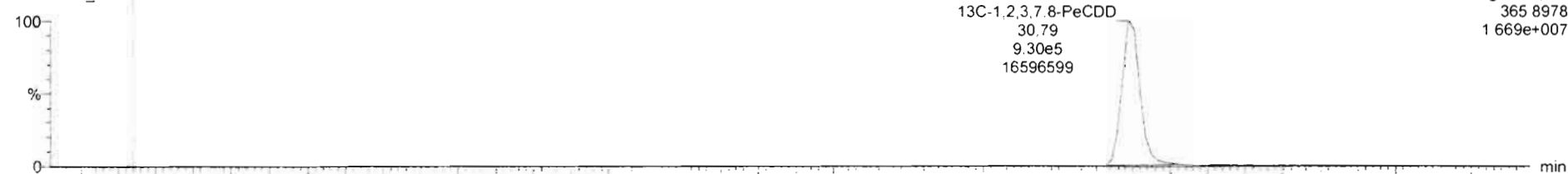


200223R3_10

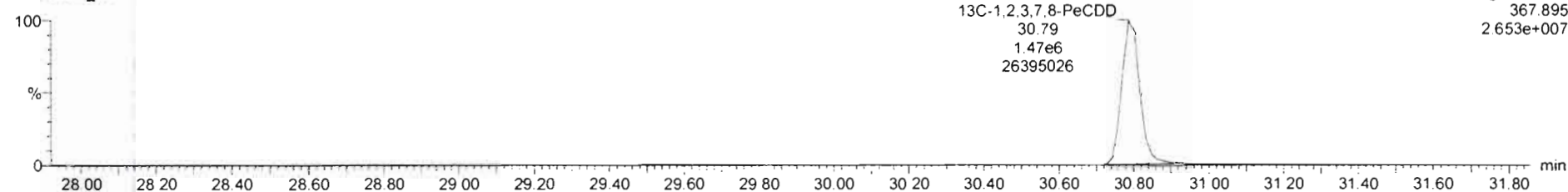


13C-1,2,3,7,8-PeCDD

200223R3_10

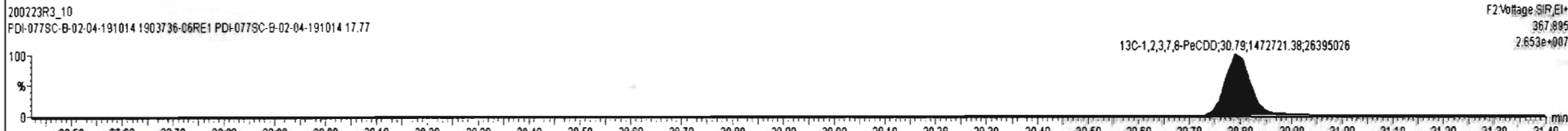
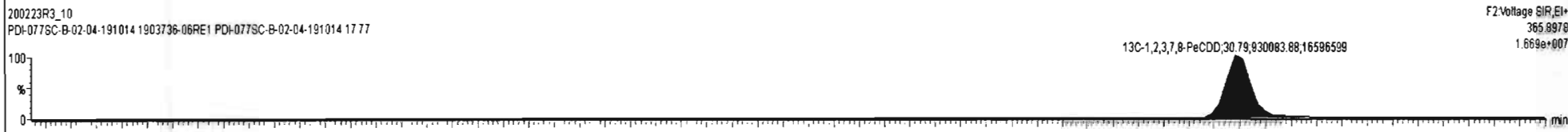
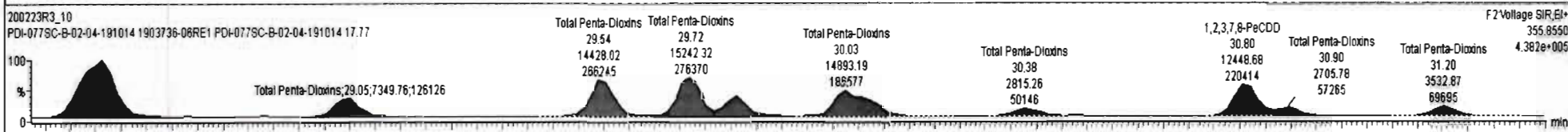
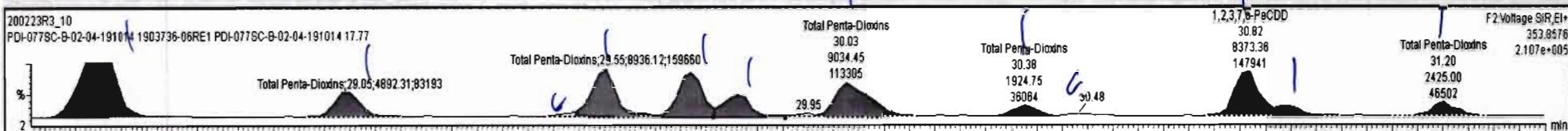


200223R3_10



#	Name	Resp	RA	nly	RNF	wtVol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9981	9.913	24.62		0.000		NO	11.82		0.0409	11.86
40	Total Penta-Dioxins				0.9723	9.913	29.96		0.000		NO	15.77		0.0508	15.77

#	Name	Pred.RT	RT	wt Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	29.56	1.864e4	3.190e4	0.530	0.58	NO	4.3815	4.3815
2	40 Total Penta-Dioxins	29.96	29.05	4.892e3	7.350e3	0.630	0.67	NO	1.0572	1.0572
3	40 Total Penta-Dioxins	29.96	29.55	8.936e3	1.443e4	0.630	0.62	NO	2.0178	2.0176
4	40 Total Penta-Dioxins	29.96	29.72	8.619e3	1.524e4	0.630	0.57	NO	2.0606	2.0606
5	40 Total Penta-Dioxins	29.96	29.81	4.561e3	7.869e3	0.630	0.58	NO	1.0769	1.0769
6	40 Total Penta-Dioxins	29.96	30.03	9.034e3	1.489e4	0.630	0.61	NO	2.0663	2.0663
7	40 Total Penta-Dioxins	29.96	30.38	1.925e3	2.815e3	0.630	0.68	NO	0.40833	0.40833
8	2 1,2,3,7,8-PeCDD	30.81	30.82	8.373e3	1.245e4	0.630	0.67	NO	1.7981	1.7981
9	40 Total Penta-Dioxins	29.96	30.88	1.772e3	2.706e3	0.630	0.65	NO	0.38670	0.38670
10	40 Total Penta-Dioxins	29.96	31.20	2.425e3	3.533e3	0.630	0.69	NO	0.51450	0.51450



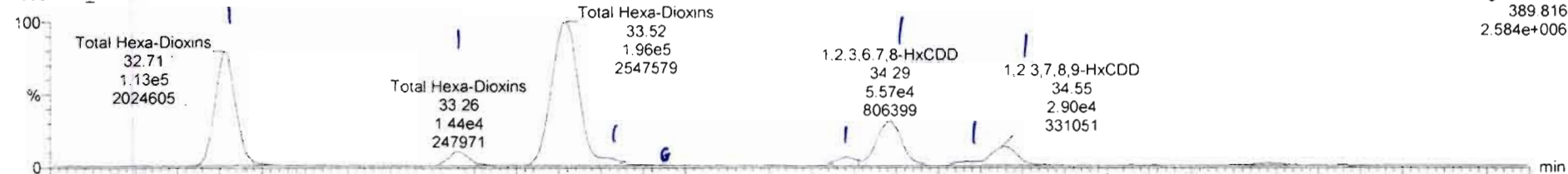
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

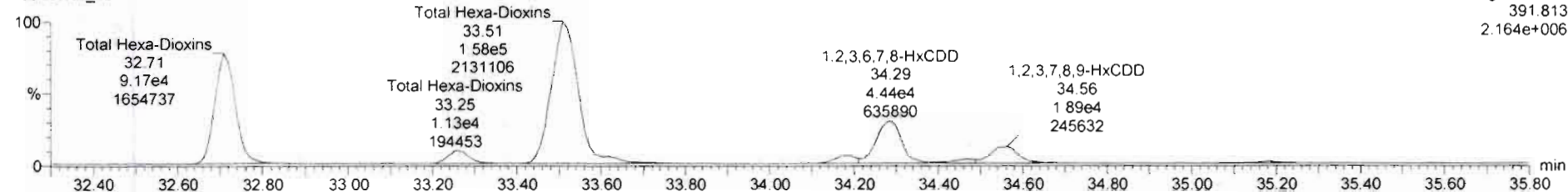
Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

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

200223R3_10

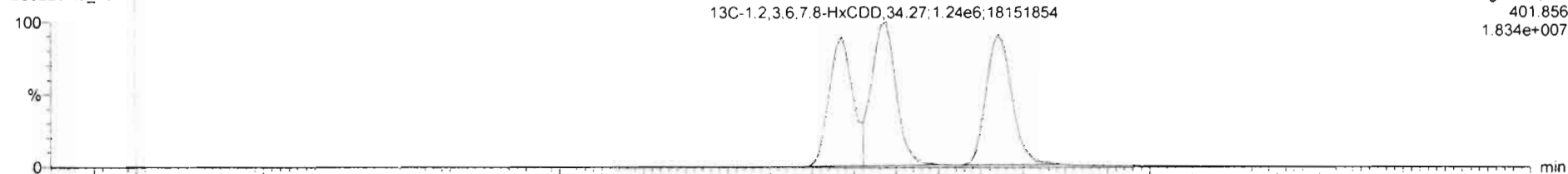


200223R3_10

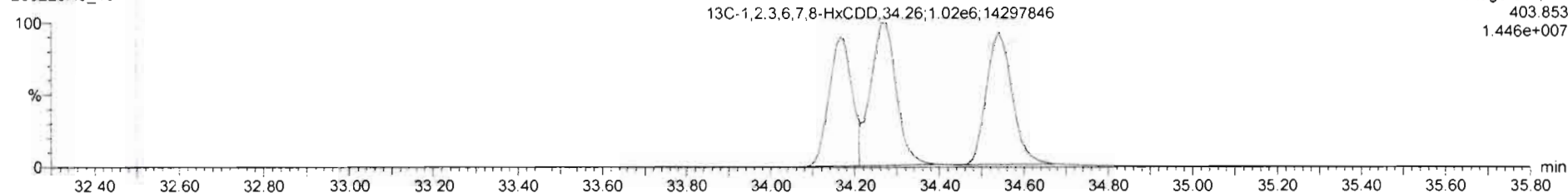


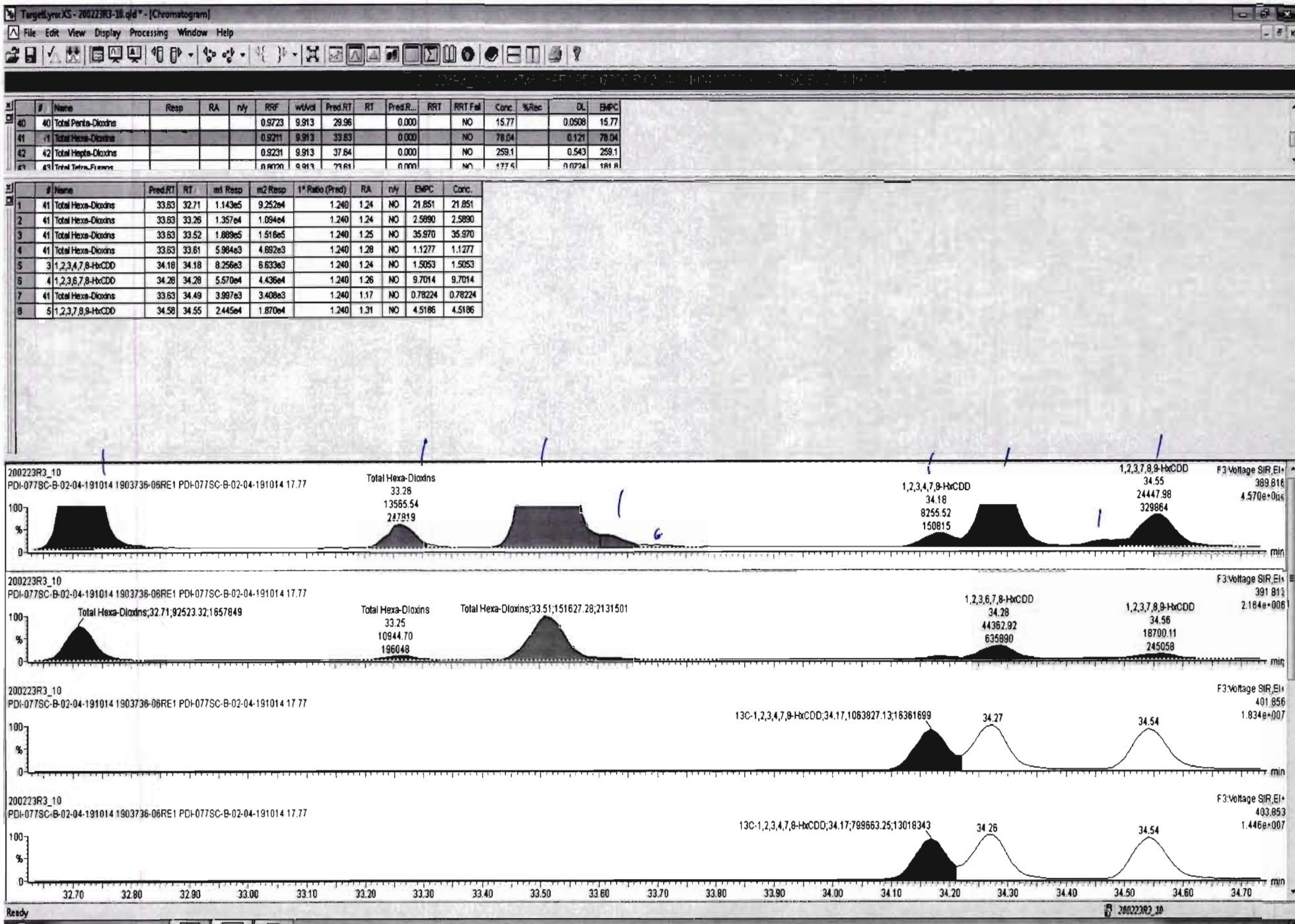
13C-1,2,3,4,7,8-HxCDD

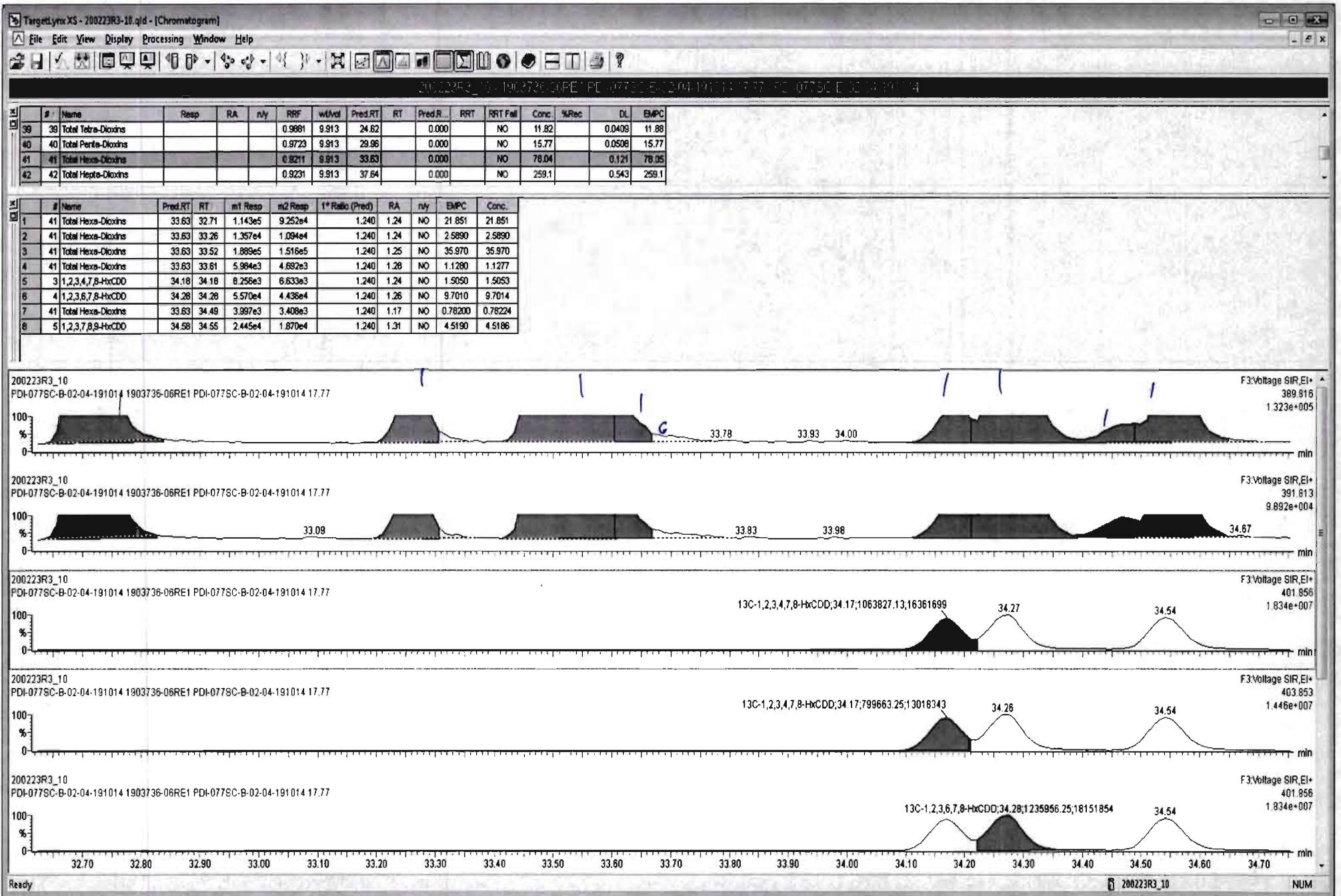
200223R3_10



200223R3_10







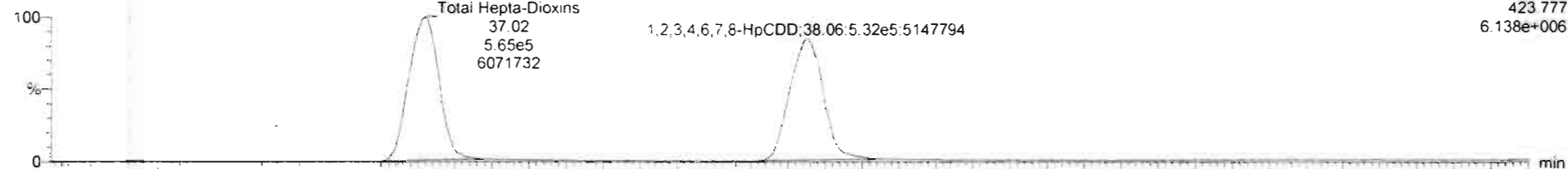
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

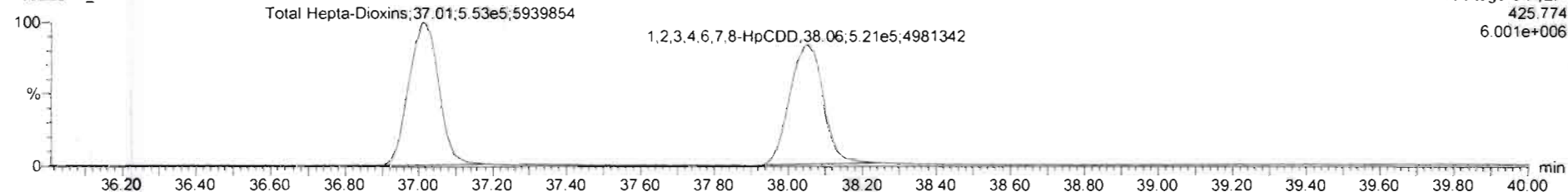
Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

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

200223R3_10

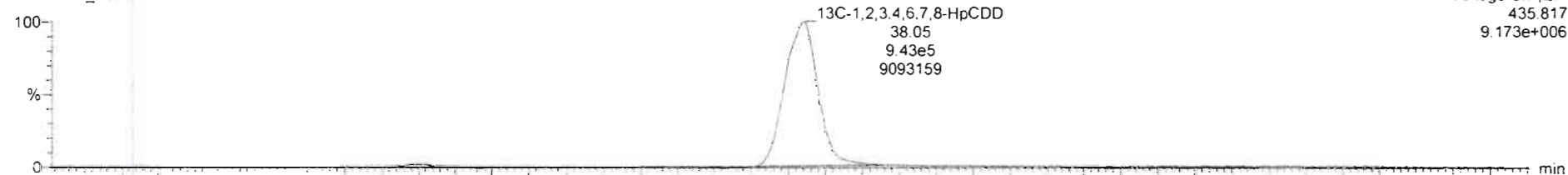


200223R3_10

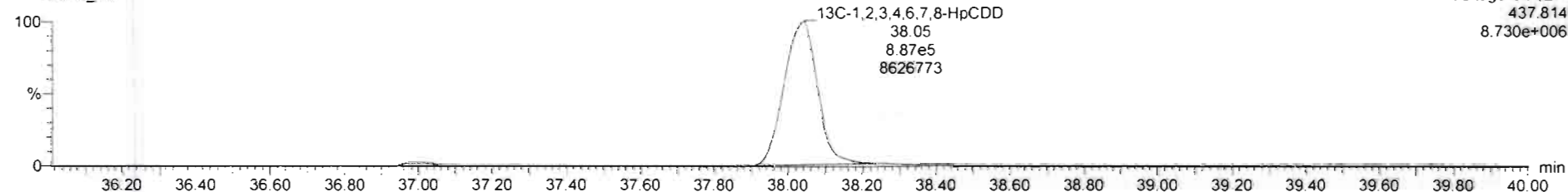


13C-1,2,3,4,6,7,8-HpCDD

200223R3_10



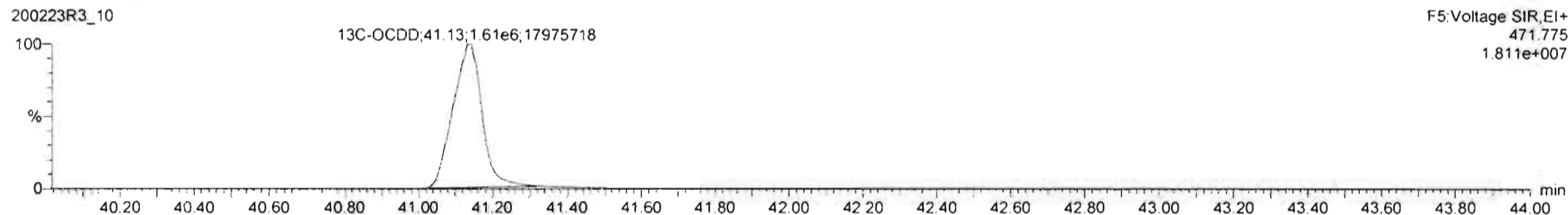
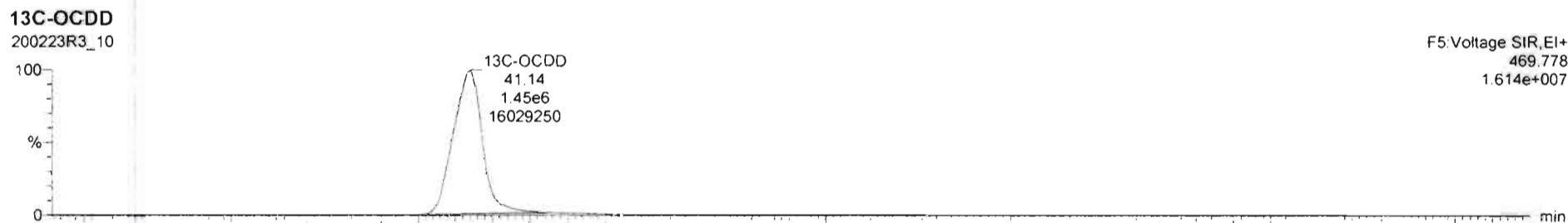
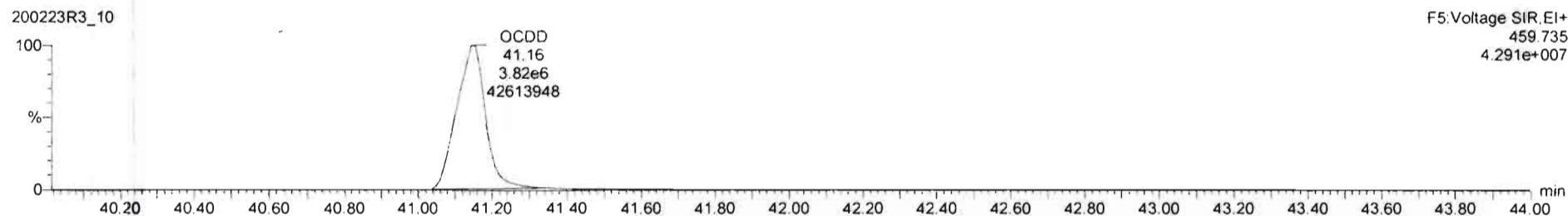
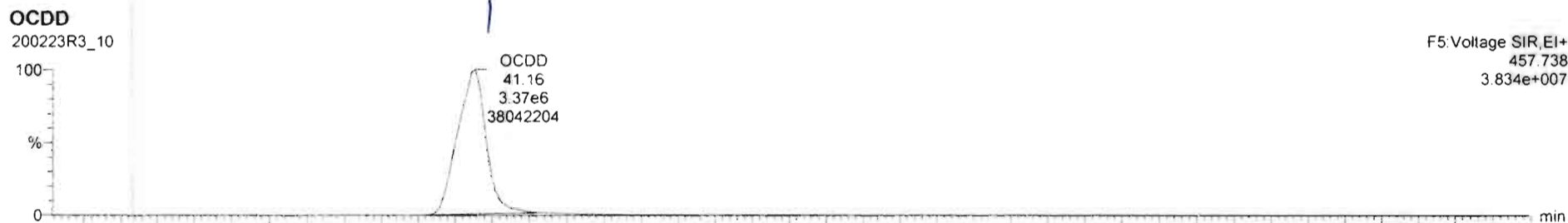
200223R3_10



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

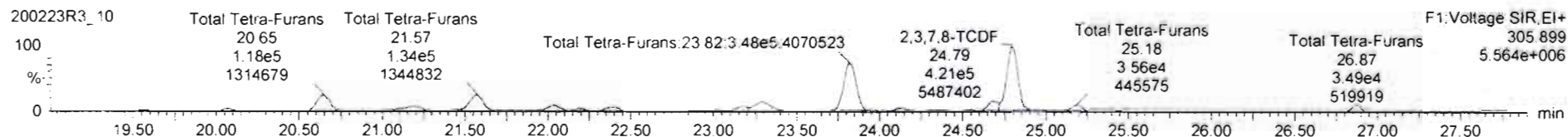
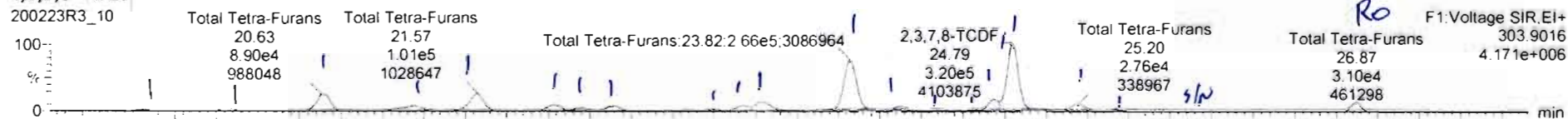


Dataset: Untitled

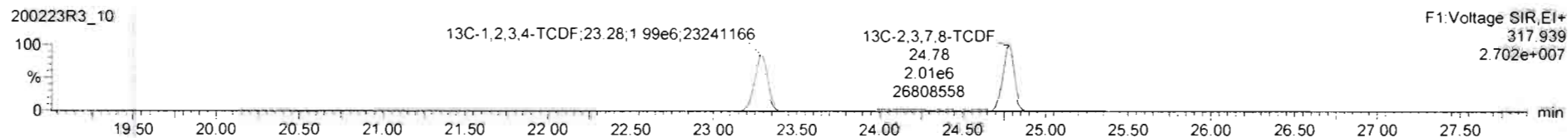
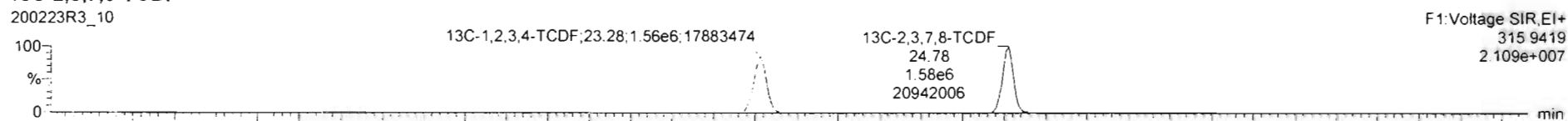
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

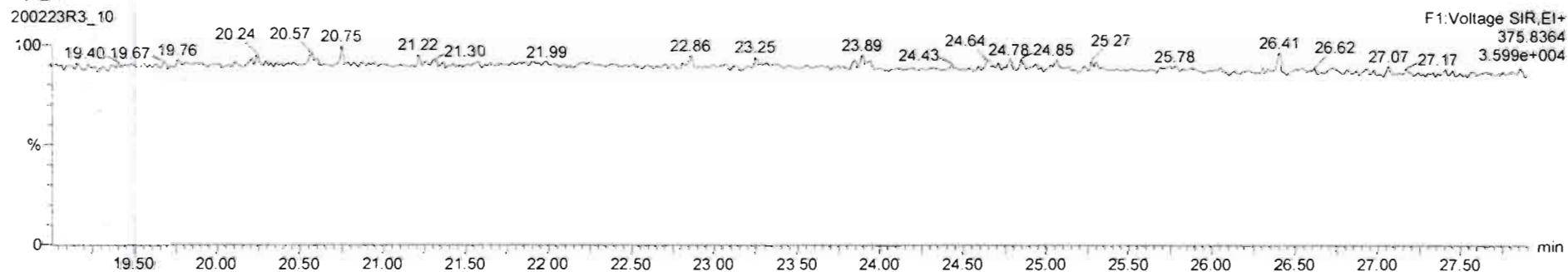
2,3,7,8-TCDF



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



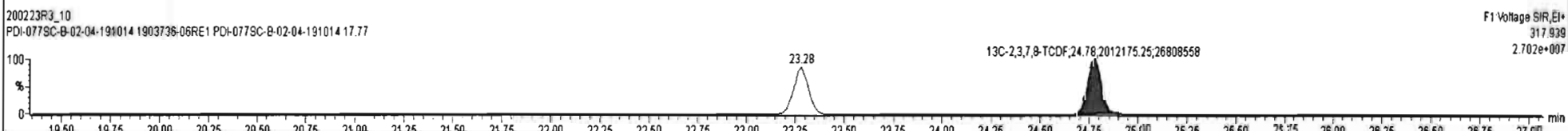
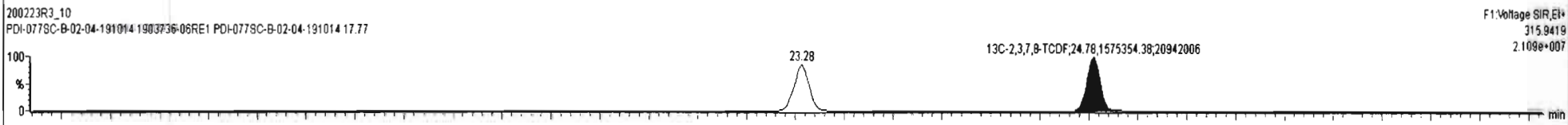
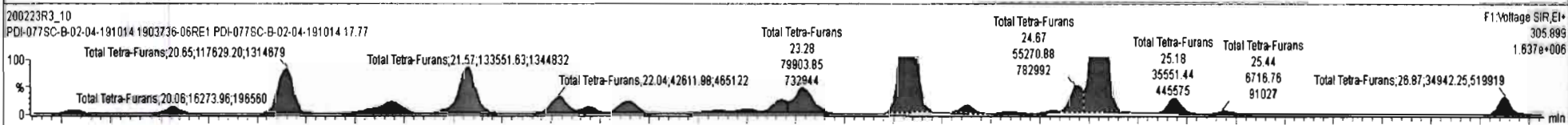
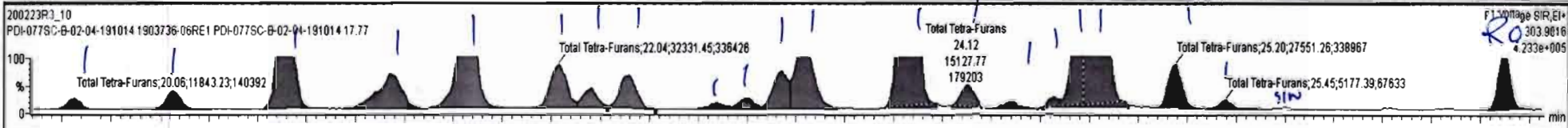
DPE1

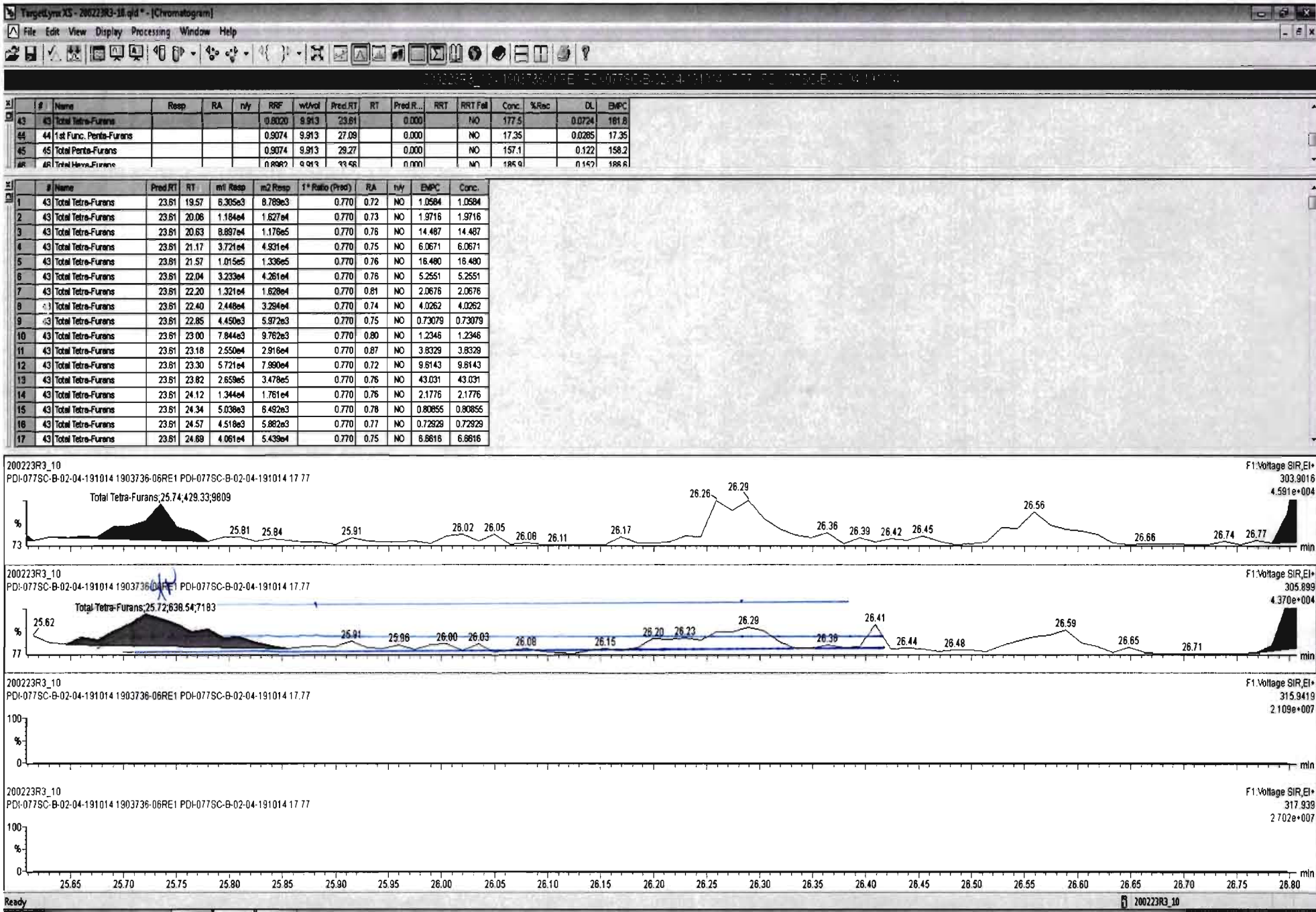


200223R3_10 - 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77 - PDI-077SC-B-02-04-191014

#	Name	Resp	RA	n/y	RRF	wtAdj	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	9.913	23.61		0.000		NO	179.4		0.0724	183.7
44	1st Func. Penta-Furans				0.9074	9.913	27.09		0.000		NO	17.35		0.0265	17.35
45	Total Penta-Furans				0.9074	9.913	29.27		0.000		NO	157.1		0.122	158.2
46	Total Hexa-Furans				0.8982	9.913	33.58		0.000		NO	185.9		0.147	188.6

#	Name	Pred RT	RT	Int Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	19.57	6.305e3	8.789e3	0.770	0.72	NO	1.0584	1.0584
2	Total Tetra-Furans	23.61	20.06	1.184e4	1.627e4	0.770	0.73	NO	1.9716	1.9716
3	Total Tetra-Furans	23.61	20.63	8.897e4	1.176e5	0.770	0.76	NO	14.487	14.487
4	Total Tetra-Furans	23.61	21.17	3.721e4	4.931e4	0.770	0.75	NO	6.0671	6.0671
5	Total Tetra-Furans	23.61	21.57	1.015e5	1.336e5	0.770	0.76	NO	16.480	16.480
6	Total Tetra-Furans	23.61	22.04	3.233e4	4.261e4	0.770	0.76	NO	5.2551	5.2551
7	Total Tetra-Furans	23.61	22.20	1.321e4	1.628e4	0.770	0.81	NO	2.0676	2.0676
8	Total Tetra-Furans	23.61	22.40	2.448e4	3.294e4	0.770	0.74	NO	4.0262	4.0262
9	Total Tetra-Furans	23.61	22.85	4.450e3	5.972e3	0.770	0.75	NO	0.73079	0.73079
10	Total Tetra-Furans	23.61	23.00	7.844e3	9.762e3	0.770	0.80	NO	1.2346	1.2346
11	Total Tetra-Furans	23.61	23.18	2.550e4	2.916e4	0.770	0.87	NO	3.8328	3.8328
12	Total Tetra-Furans	23.61	23.30	5.721e4	7.990e4	0.770	0.72	NO	9.6143	9.6143
13	Total Tetra-Furans	23.61	23.82	2.705e5	3.515e5	0.770	0.77	NO	43.616	43.616
14	Total Tetra-Furans	23.61	24.12	1.513e4	1.897e4	0.770	0.80	NO	2.3910	2.3910
15	Total Tetra-Furans	23.61	24.34	5.038e3	6.492e3	0.770	0.78	NO	0.80855	0.80855
16	Total Tetra-Furans	23.61	24.57	5.068e3	5.862e3	0.770	0.86	NO	0.78794	0.78794
17	Total Tetra-Furans	23.61	24.89	4.253e4	5.527e4	0.770	0.77	NO	6.8576	6.8576





Dataset: Untitled

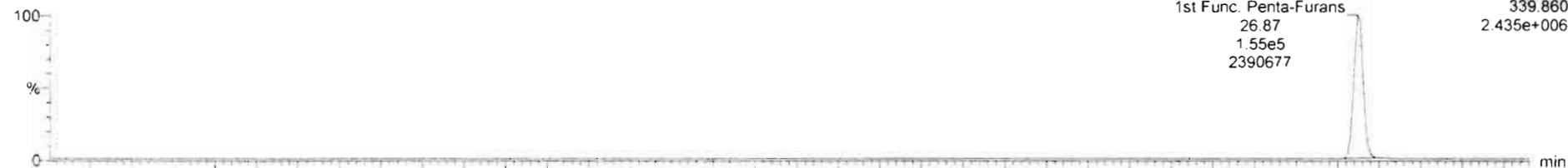
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

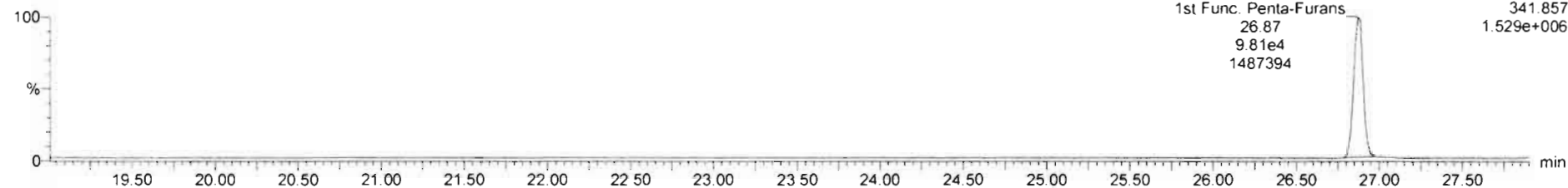
Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

1st Func. Penta-Furans

200223R3_10

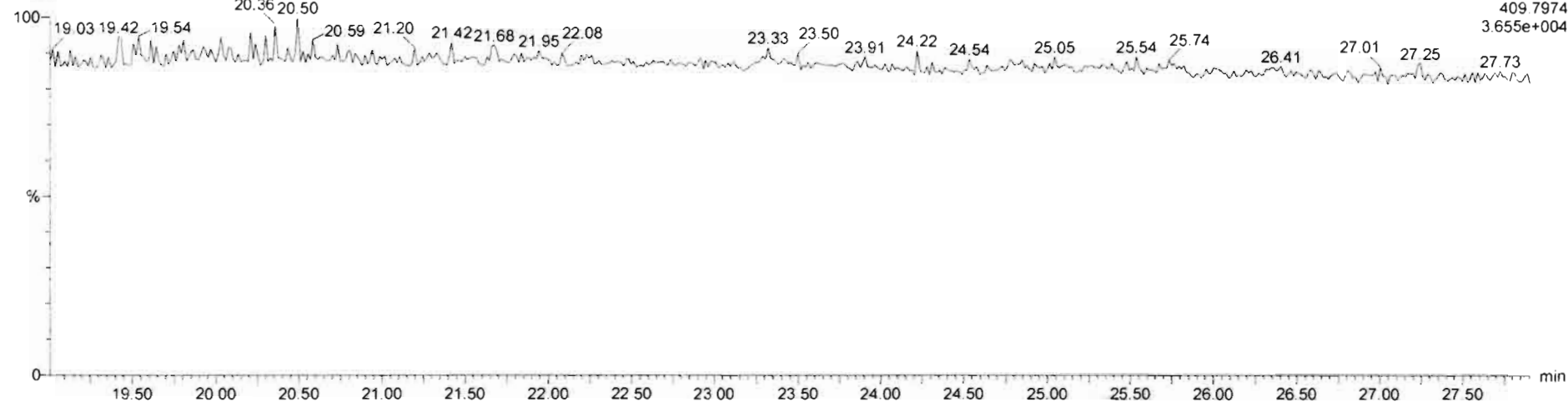


200223R3_10



DPE6

200223R3_10

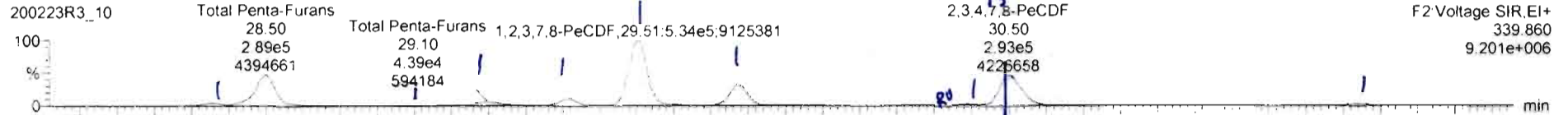


Dataset: Untitled

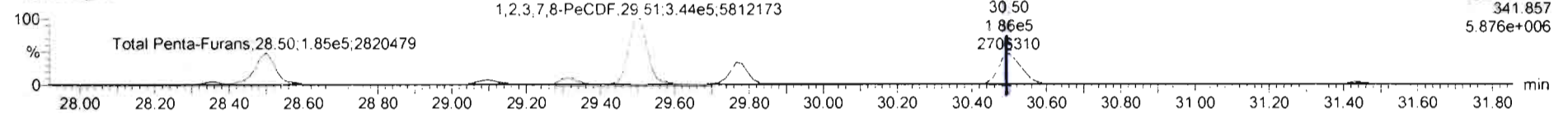
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

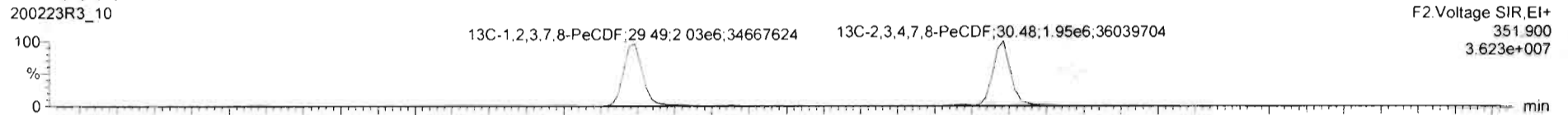
1,2,3,7,8-PeCDF



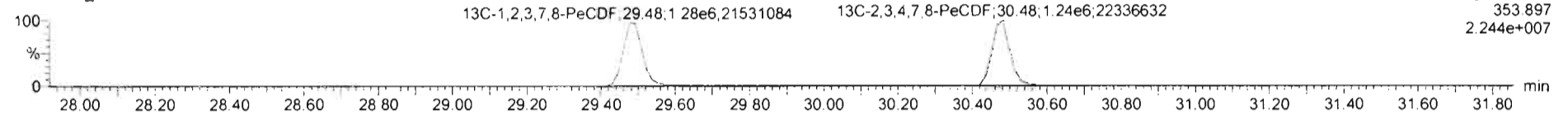
200223R3_10



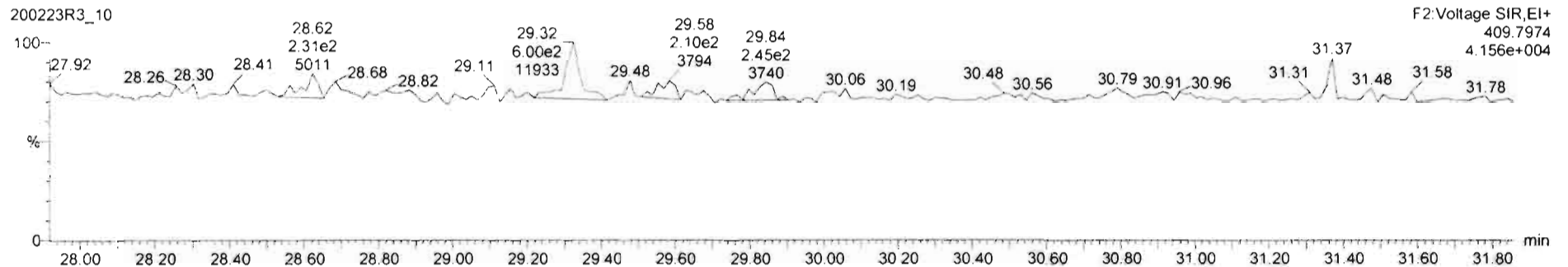
13C-1,2,3,7,8-PeCDF



200223R3_10

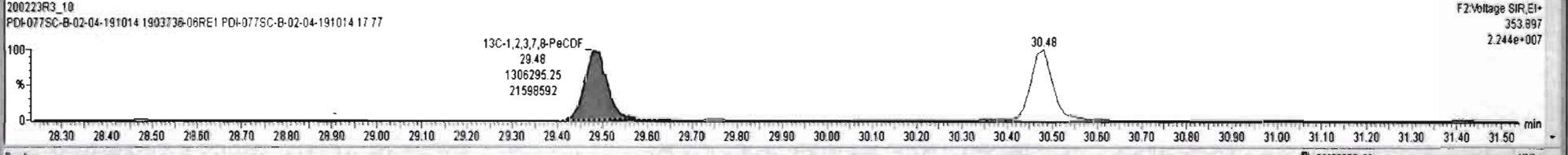
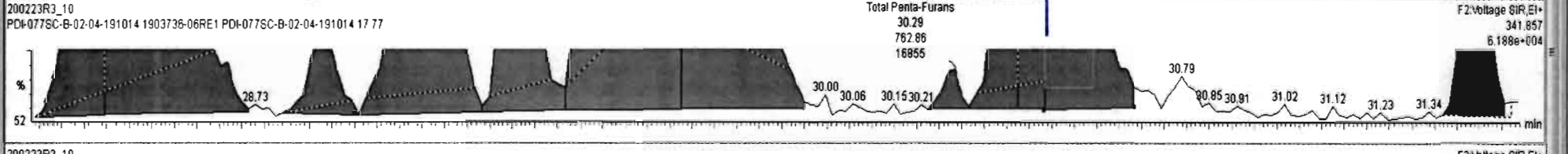
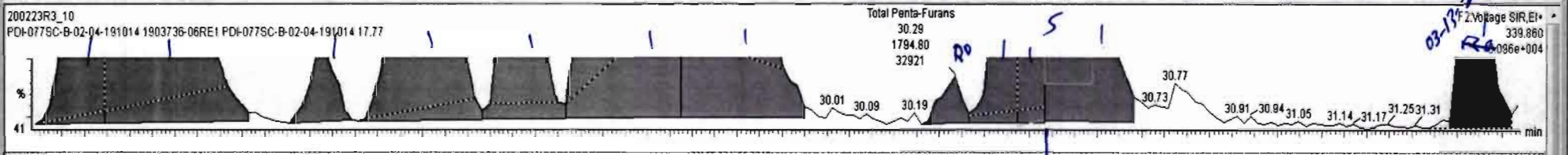


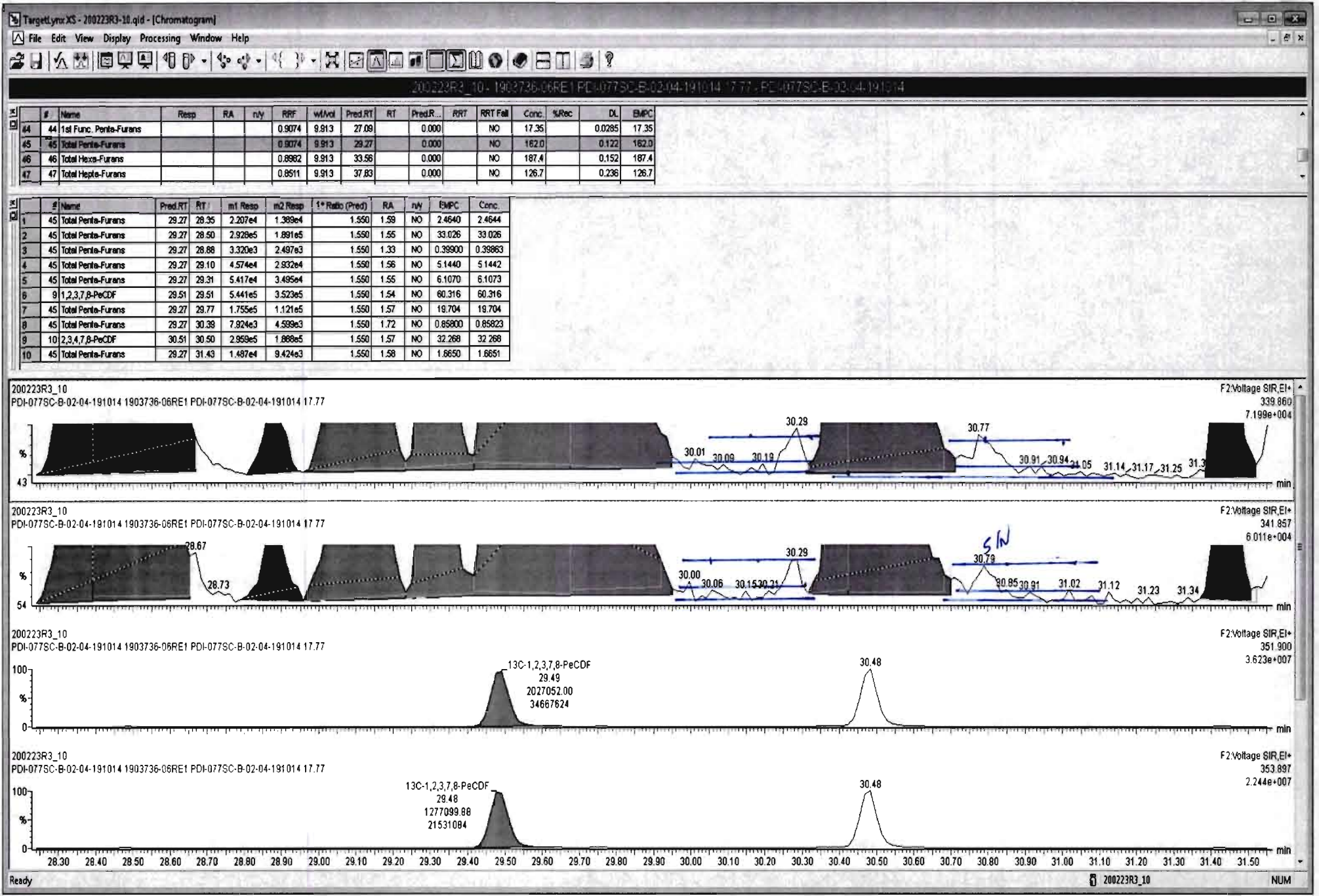
DPE2

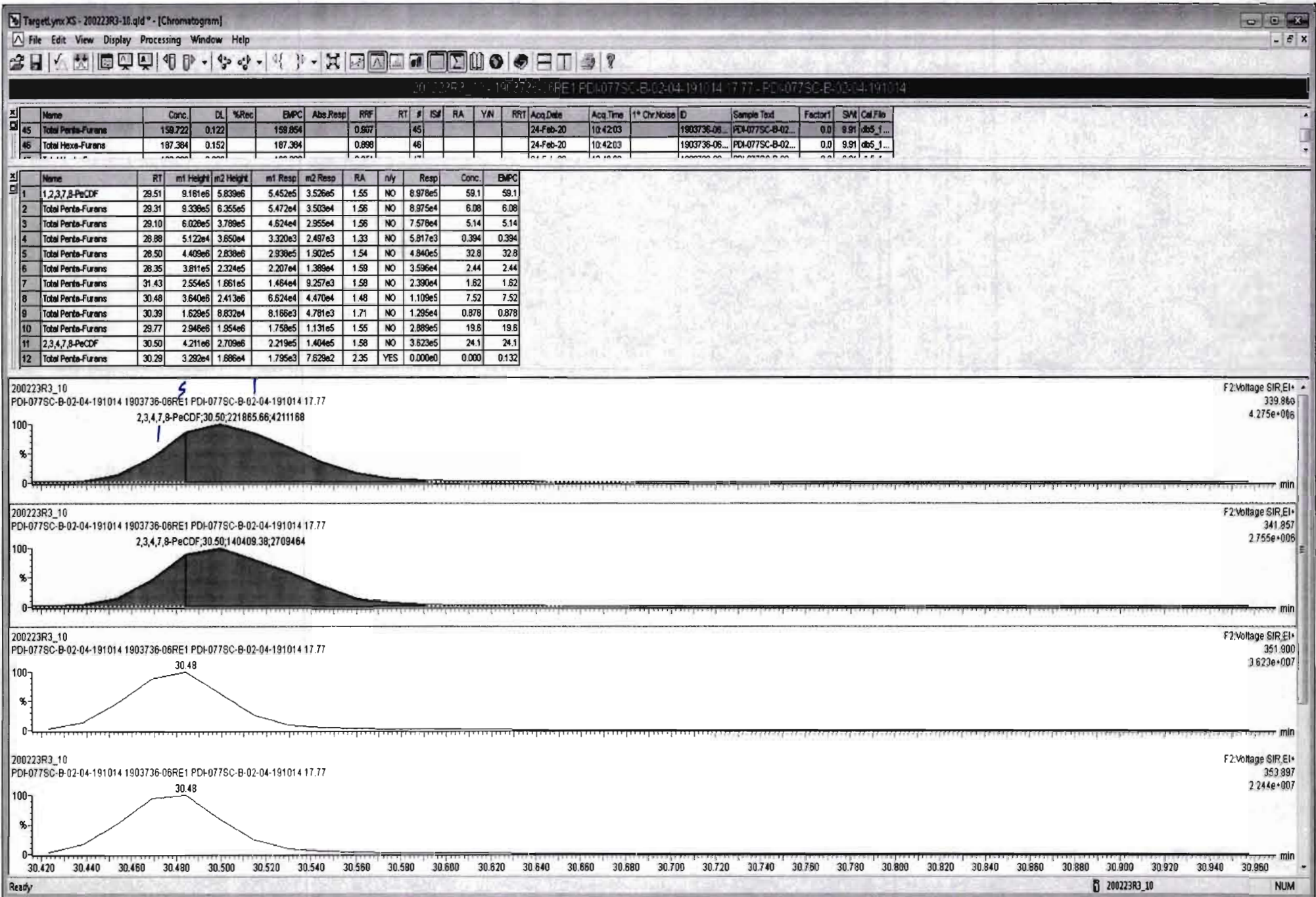


Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1* Chr.Noise	D	Sample Text	Factor1	SM	Cal File
45 Total Penta-Furans	159.722	0.122		159.854		0.907	45						24-Feb-20	10:42:03		1903736-06...	PDI-077SC-B-02...	0.0	9.91	db5_1...
46 Total Hexa-Furans	187.384	0.152		187.384		0.898	46						24-Feb-20	10:42:03		1903736-06...	PDI-077SC-B-02...	0.0	9.91	db5_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 1,2,3,7,8-PeCDF	29.51	8.161e6	5.839e6	5.452e5	3.526e5	1.55	NO	8.978e5	59.1	59.1
2 Total Penta-Furans	29.31	9.338e5	6.355e5	5.472e4	3.503e4	1.56	NO	8.975e4	6.08	6.08
3 Total Penta-Furans	29.10	6.028e5	3.789e5	4.624e4	2.955e4	1.56	NO	7.578e4	5.14	5.14
4 Total Penta-Furans	28.88	5.122e4	3.650e4	3.320e3	2.497e3	1.33	NO	5.817e3	0.394	0.394
5 Total Penta-Furans	28.50	4.409e6	2.838e6	2.938e5	1.902e5	1.54	NO	4.840e5	32.8	32.8
6 Total Penta-Furans	28.35	3.811e5	2.324e5	2.207e4	1.388e4	1.59	NO	3.596e4	2.44	2.44
7 Total Penta-Furans	31.43	2.554e5	1.861e5	1.464e4	9.257e3	1.58	NO	2.390e4	1.62	1.62
8 Total Penta-Furans	30.48	3.640e6	2.413e6	6.624e4	4.470e4	1.48	NO	1.109e5	7.52	7.52
9 Total Penta-Furans	30.39	1.629e5	8.832e4	8.186e3	4.781e3	1.71	NO	1.295e4	0.878	0.878
10 Total Penta-Furans	29.77	2.946e6	1.954e6	1.758e5	1.131e5	1.55	NO	2.889e5	19.6	19.6
11 2,3,4,7,8-PeCDF	30.50	4.211e6	2.709e6	2.219e5	1.404e5	1.58	NO	3.623e5	24.1	24.1
12 Total Penta-Furans	30.29	3.282e4	1.886e4	1.795e3	7.629e2	2.35	YES	0.000e0	0.000	0.132







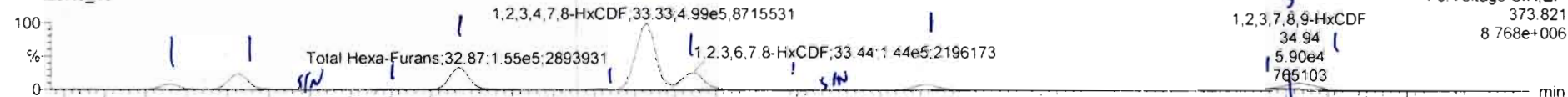
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

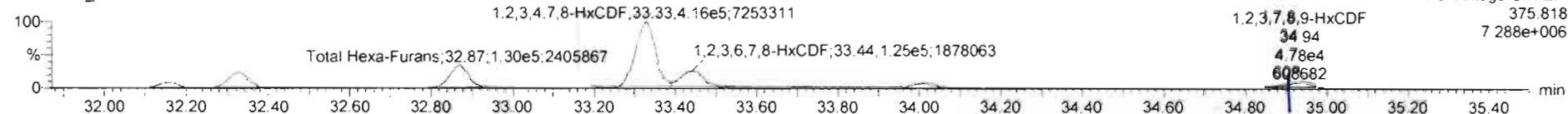
Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

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

200223R3_10

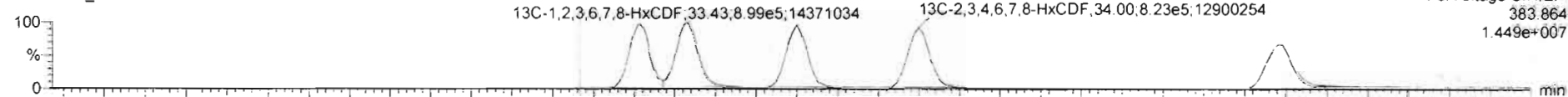


200223R3_10

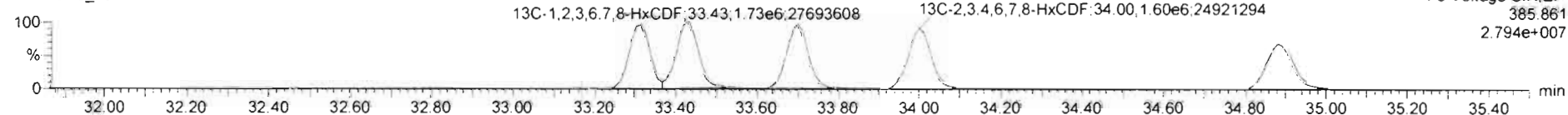


13C-1,2,3,4,7,8-HxCDF

200223R3_10

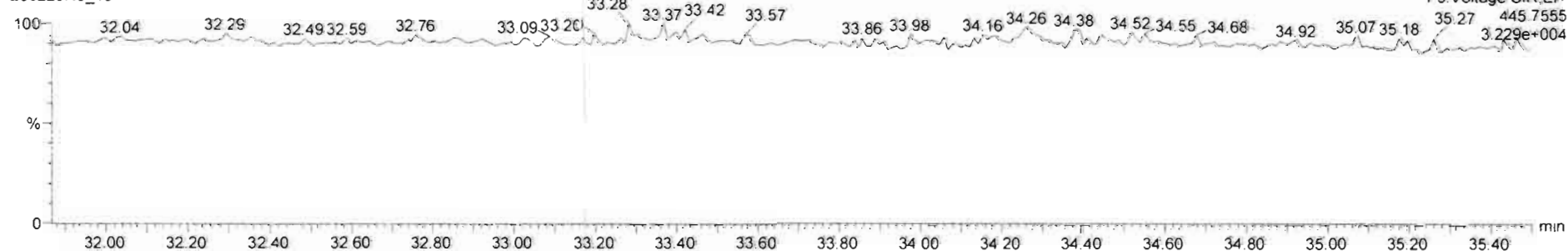


200223R3_10



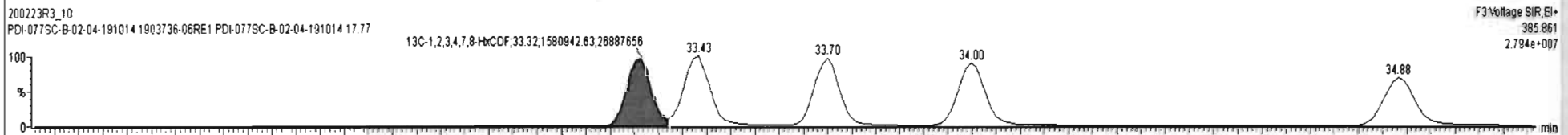
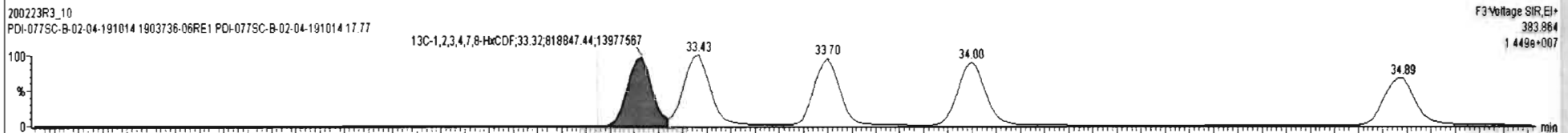
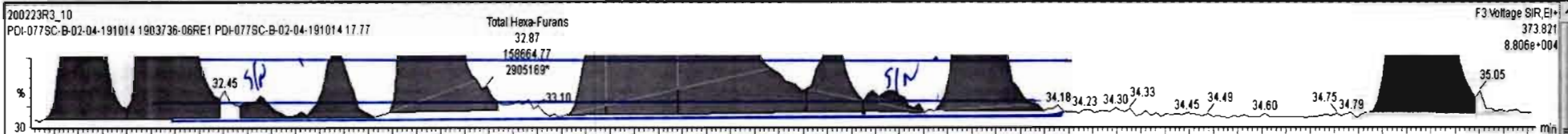
DPE3

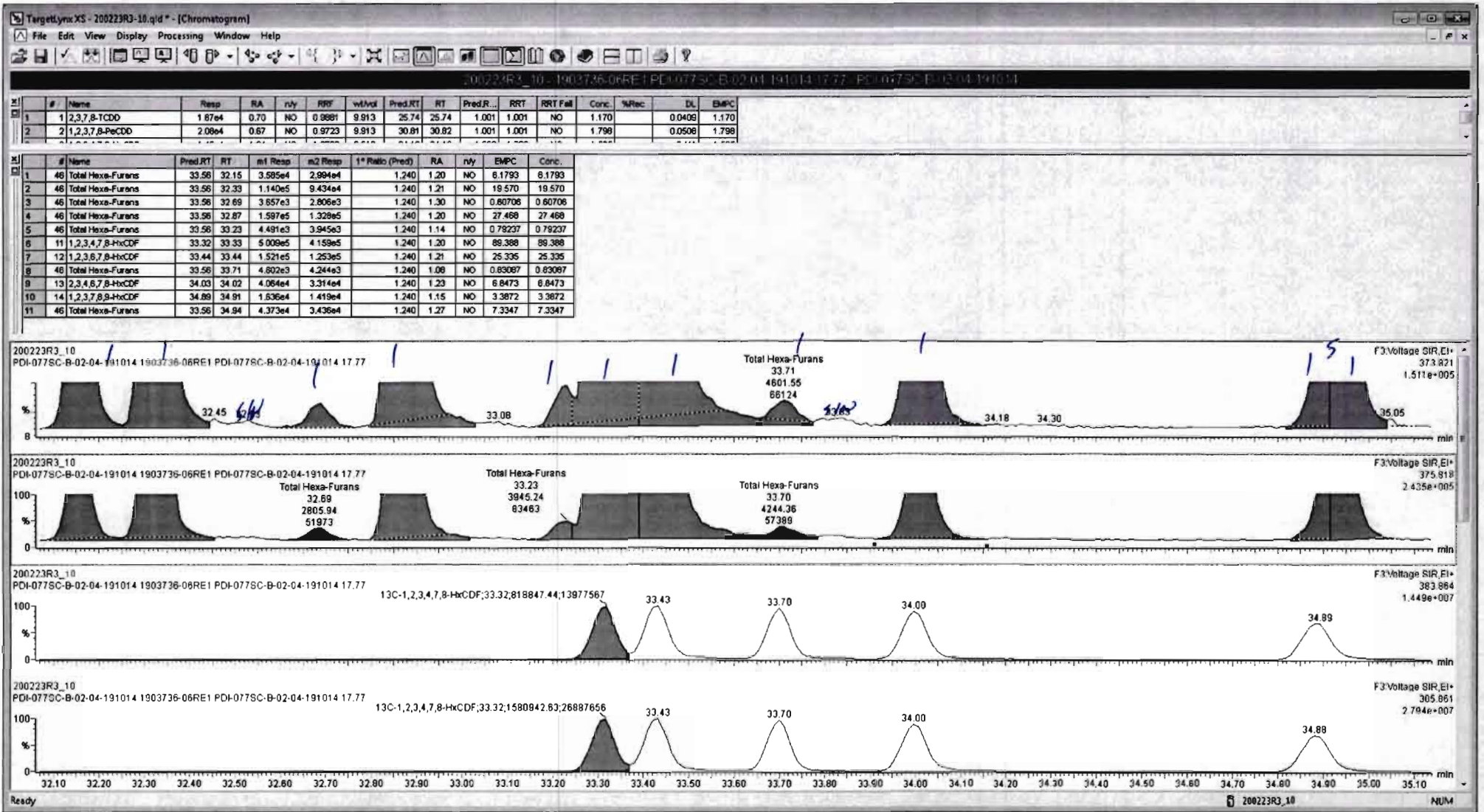
200223R3_10

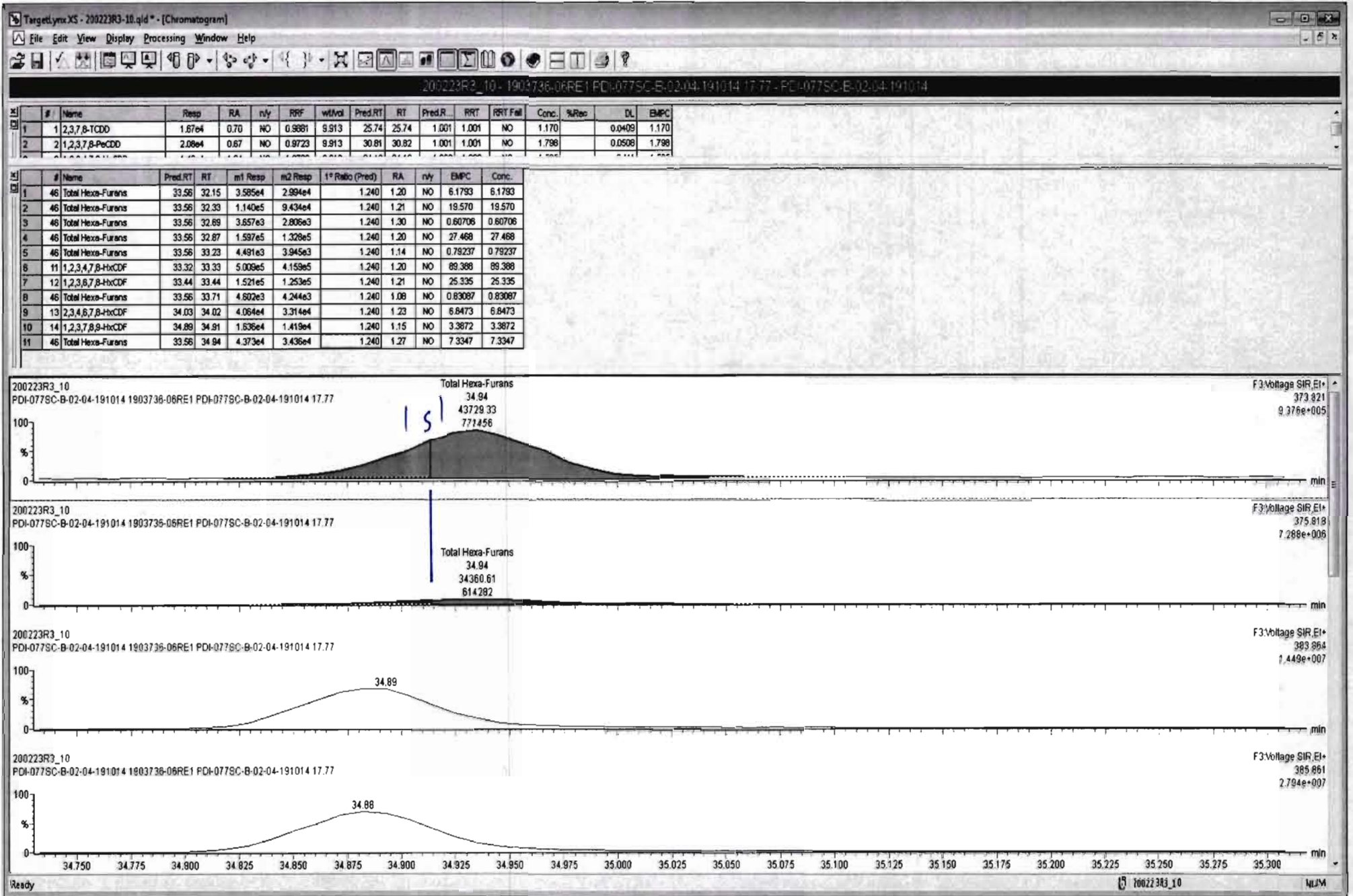


#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	9.913	23.61		0.000		NO	179.4		0.0724	163.7
44	1st Func. Penta-Furans				0.9074	9.913	27.09		0.000		NO	17.35		0.0285	17.35
45	Total Penta-Furans				0.9074	9.913	29.27		0.000		NO	162.0		0.122	162.0
46	Total Hexa-Furans				0.8902	9.913	33.56		0.000		NO	185.9		0.152	186.8

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.15	3.585e4	2.877e4	1.240	1.25	NO	6.0699	6.0699
2	46 Total Hexa-Furans	33.56	32.33	1.140e5	9.181e4	1.240	1.24	NO	19.333	19.333
3	46 Total Hexa-Furans	33.56	32.53	1.069e3	4.815e2	1.240	2.22	YES	0.10132	0.00000
4	46 Total Hexa-Furans	33.56	32.69	3.697e3	2.806e3	1.240	1.32	NO	0.61078	0.61078
5	46 Total Hexa-Furans	33.56	32.87	1.555e5	1.296e5	1.240	1.20	NO	26.779	26.779
6	46 Total Hexa-Furans	33.56	33.23	4.197e3	3.945e3	1.240	1.06	NO	0.76474	0.76474
7	11 1,2,3,4,7,8-HxCDF	33.32	33.33	4.987e5	4.159e5	1.240	1.20	NO	89.169	89.169
8	12 1,2,3,6,7,8-HxCDF	33.44	33.44	1.440e5	1.253e5	1.240	1.15	NO	24.600	24.600
9	46 Total Hexa-Furans	33.56	33.71	2.789e3	4.244e3	1.240	0.66	YES	0.47325	0.00000
10	46 Total Hexa-Furans	33.56	33.83	7.578e2	1.043e3	1.240	0.73	YES	0.12699	0.00000
11	13 2,3,4,6,7,8-HxCDF	34.03	34.02	3.899e4	3.262e4	1.240	1.23	NO	6.7390	6.7390
12	14 1,2,3,7,8,9-HxCDF	34.89	34.94	5.903e4	4.779e4	1.240	1.24	NO	11.848	11.848







Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

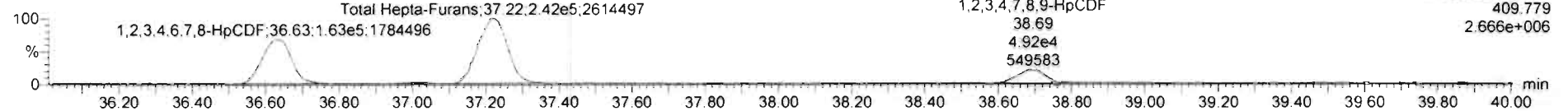
Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

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

200223R3_10

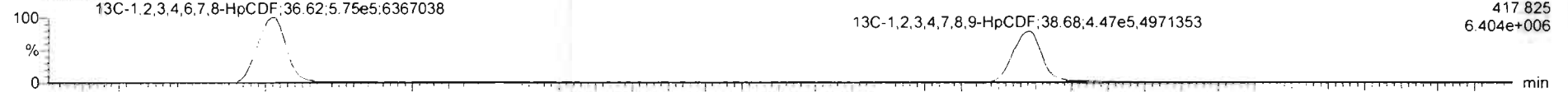


200223R3_10

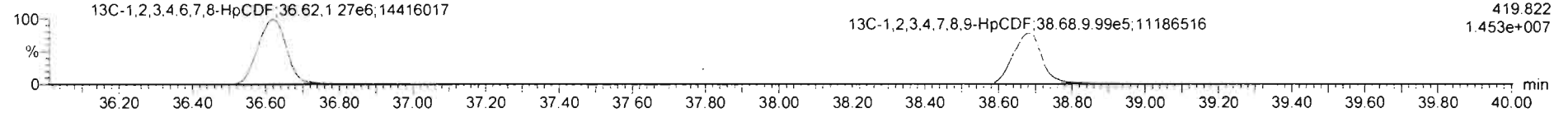


13C-1,2,3,4,6,7,8-HpCDF

200223R3_10

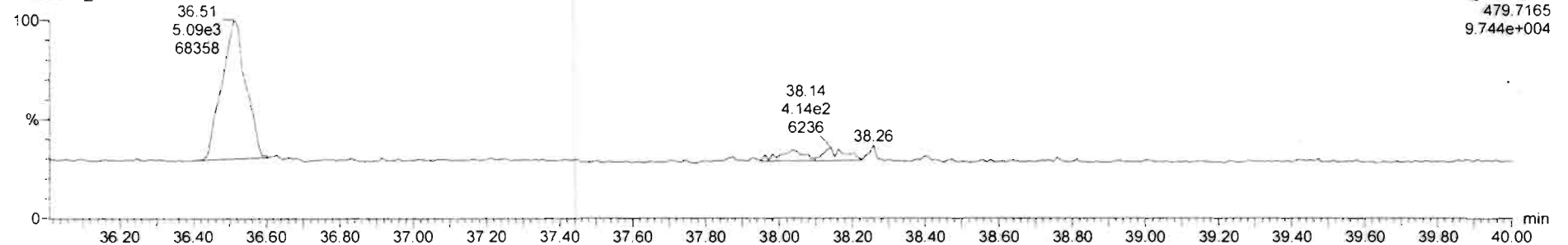


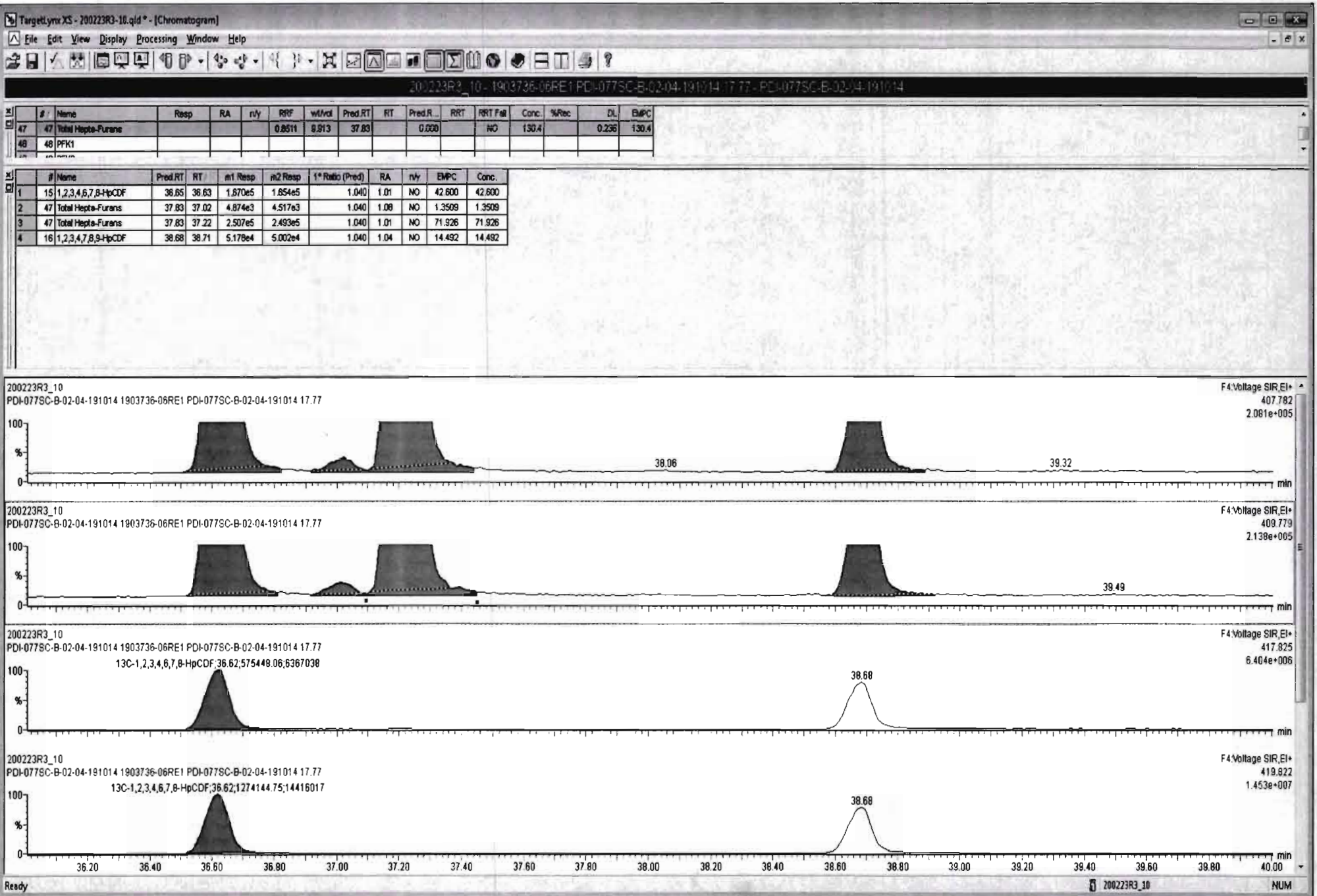
200223R3_10



DPE4

200223R3_10

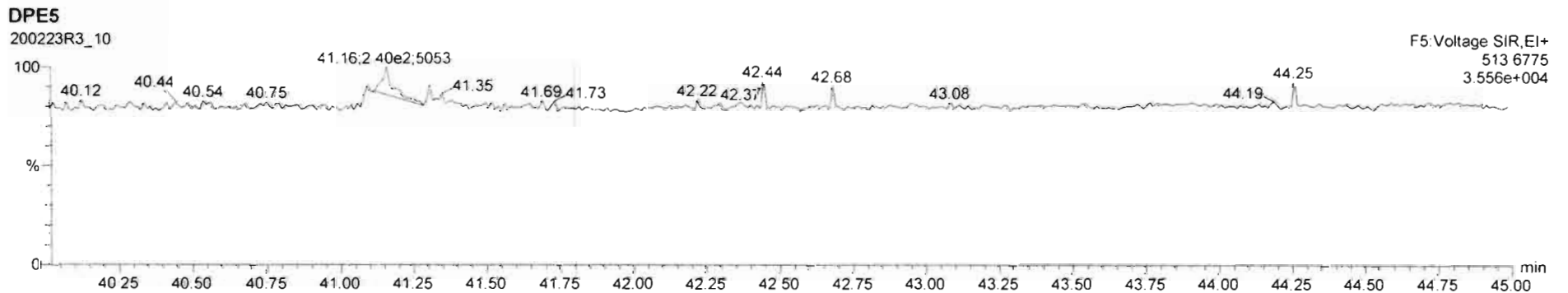
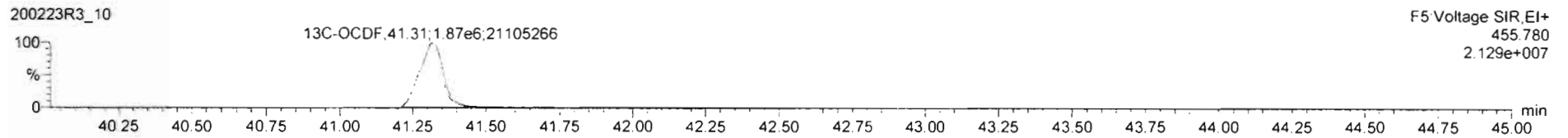
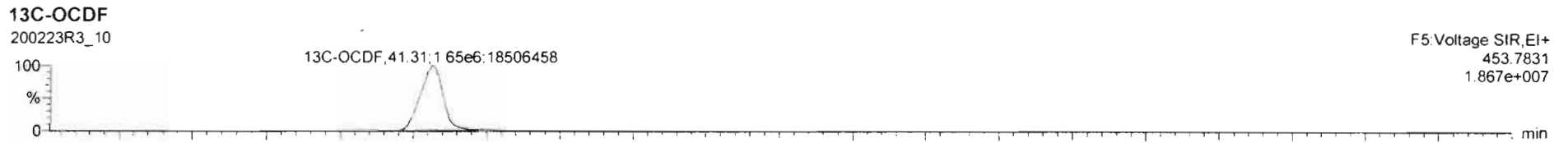
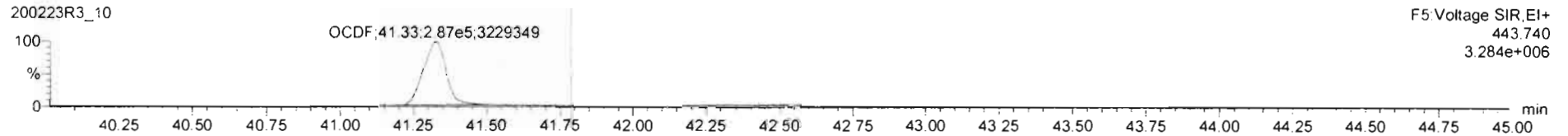
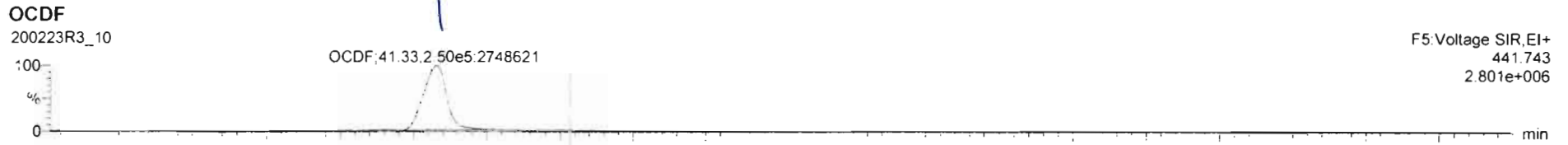




Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014



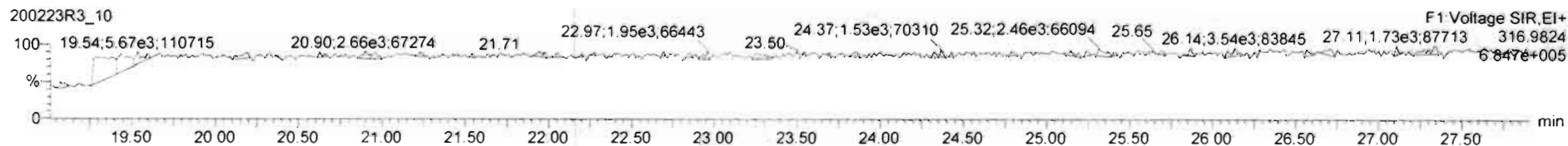
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

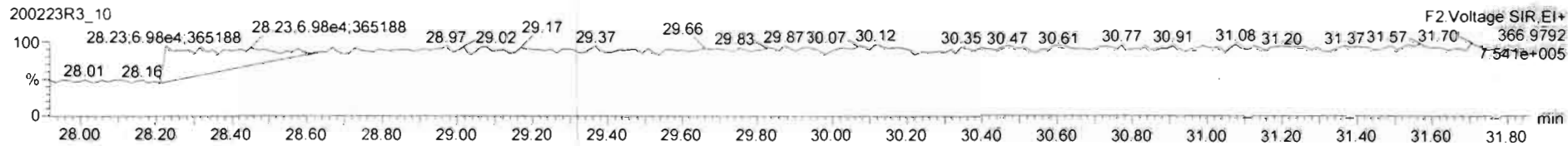
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_10, Date: 24-Feb-2020, Time: 10:42:03, ID: 1903736-06RE1 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

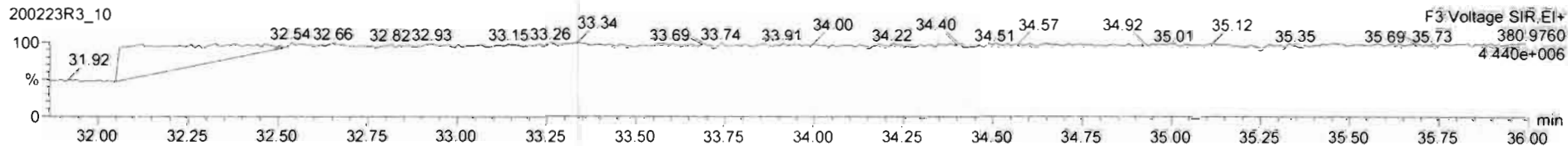
PFK1



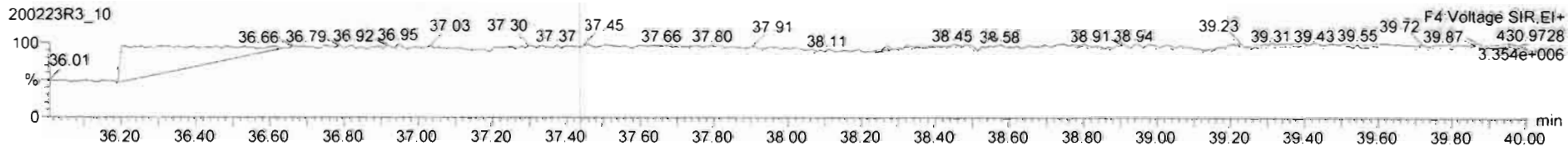
PFK2



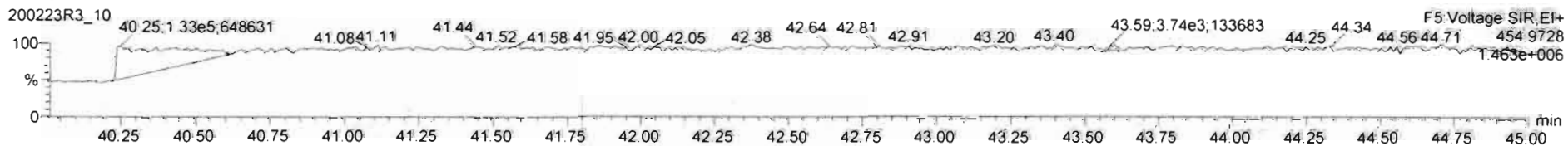
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200223R3\200223R3-11.qld

Last Altered: Wednesday, March 18, 2020 08:15:06 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 08:22:41 Pacific Daylight Time

Uly 03-18-2020
** see dilution*

da 3/21/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.67e4	2.40e6	0.712	NO	10.16	25.75	25.75	1.00	1.00	NO	2.2149		0.046	2.2149
2	2 1,2,3,7,8-PeCDD	3.62e4	2.09e6	0.616	NO	10.16	30.83	30.82	1.00	1.00	NO	3.4943		0.062	3.4943
3	3 1,2,3,4,7,8-HxCDD	2.75e4	1.60e6	1.332	NO	10.16	34.19	34.19	1.00	1.00	NO	3.1559		0.185	3.1559
4	4 1,2,3,6,7,8-HxCDD	2.01e5	2.01e6	1.269	NO	10.16	34.28	34.30	1.00	1.00	NO	21.382		0.191	21.382
5	5 1,2,3,7,8,9-HxCDD	8.42e4	1.83e6	1.275	NO	10.16	34.59	34.57	1.00	1.00	NO	9.8483		0.218	9.8483
6	6 1,2,3,4,6,7,8-HpCDD	4.08e6	1.56e6	1.022	NO	10.16	38.06	38.07	1.00	1.00	NO	557.05		1.070	557.05
7	7 OCDD	4.05e7	2.45e6	0.890	NO	10.16	41.15	41.17	1.00	1.00	NO	6672.3		0.848	6672.3
8	8 2,3,7,8-TCDF	2.41e6	2.78e6	0.743	NO	10.16	24.82	24.81	1.00	1.00	NO	212.99	(195.4)	0.176	212.99
9	9 1,2,3,7,8-PeCDF	4.17e6	2.90e6	1.535	NO	10.16	29.51	29.51	1.00	1.00	NO	312.42		0.211	312.42
10	10 2,3,4,7,8-PeCDF	2.14e6	2.64e6	1.538	NO	10.16	30.51	30.50	1.00	1.00	NO	167.39		0.209	167.39
11	11 1,2,3,4,7,8-HxCDF	5.77e6	2.13e6	1.205	NO	10.16	33.33	33.34	1.00	1.00	NO	619.08		0.306	619.08
12	12 1,2,3,6,7,8-HxCDF	1.68e6	2.29e6	1.220	NO	10.16	33.44	33.45	1.00	1.00	NO	172.05		0.304	172.05
13	13 2,3,4,6,7,8-HxCDF	3.88e5	2.09e6	1.204	NO	10.16	34.04	34.02	1.00	1.00	NO	40.679		0.323	40.679
14	14 1,2,3,7,8,9-HxCDF	6.35e4	1.83e6	1.108	NO	10.16	34.89	34.90	1.00	1.00	NO	7.9510		0.432	7.9510
15	15 1,2,3,4,6,7,8-HpCDF	2.36e6	1.57e6	1.003	NO	10.16	36.67	36.64	1.00	1.00	NO	346.39		0.586	346.39
16	16 1,2,3,4,7,8,9-HpCDF	7.26e5	1.20e6	1.013	NO	10.16	38.69	38.71	1.00	1.00	NO	121.30		0.666	121.30
17	17 OCDF	4.35e6	2.91e6	0.865	NO	10.16	41.34	41.35	1.00	1.00	NO	730.76		0.323	730.76
18	18 13C-2,3,7,8-TCDD	2.40e6	2.28e6	0.774	NO	10.16	25.69	25.72	1.03	1.03	NO	173.09	88.0	0.111	
19	19 13C-1,2,3,7,8-PeCDD	2.09e6	2.28e6	0.632	NO	10.16	30.43	30.81	1.22	1.23	NO	187.06	95.1	0.137	
20	20 13C-1,2,3,4,7,8-HxCDD	1.60e6	2.19e6	1.266	NO	10.16	34.18	34.18	1.01	1.01	NO	164.53	83.6	0.267	
21	21 13C-1,2,3,6,7,8-HxCDD	2.01e6	2.19e6	1.261	NO	10.16	34.28	34.28	1.02	1.02	NO	172.25	87.5	0.223	
22	22 13C-1,2,3,7,8,9-HxCDD	1.83e6	2.19e6	1.241	NO	10.16	34.59	34.55	1.03	1.02	NO	168.86	85.8	0.239	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.56e6	2.19e6	1.042	NO	10.16	38.16	38.04	1.13	1.13	NO	187.54	95.3	0.323	
24	24 13C-OCDD	2.45e6	2.19e6	0.899	NO	10.16	41.06	41.15	1.22	1.22	NO	311.29	79.1	0.308	
25	25 13C-2,3,7,8-TCDF	2.78e6	3.21e6	0.782	NO	10.16	24.87	24.79	0.99	0.99	NO	159.71	81.2	0.118	
26	26 13C-1,2,3,7,8-PeCDF	2.90e6	3.21e6	1.583	NO	10.16	29.46	29.49	1.18	1.18	NO	177.08	90.0	0.229	
27	27 13C-2,3,4,7,8-PeCDF	2.64e6	3.21e6	1.577	NO	10.16	30.42	30.48	1.21	1.22	NO	168.22	85.5	0.239	
28	28 13C-1,2,3,4,7,8-HxCDF	2.13e6	2.19e6	0.514	NO	10.16	33.31	33.33	0.99	0.99	NO	182.00	92.5	0.332	
29	29 13C-1,2,3,6,7,8-HxCDF	2.29e6	2.19e6	0.511	NO	10.16	33.41	33.43	0.99	0.99	NO	172.62	87.7	0.293	
30	30 13C-2,3,4,6,7,8-HxCDF	2.09e6	2.19e6	0.517	NO	10.16	34.02	34.01	1.01	1.01	NO	176.07	89.5	0.327	
31	31 13C-1,2,3,7,8,9-HxCDF	1.83e6	2.19e6	0.519	NO	10.16	34.92	34.89	1.04	1.04	NO	178.30	90.6	0.377	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.57e6	2.19e6	0.445	NO	10.16	36.68	36.63	1.09	1.09	NO	184.12	93.6	0.349	

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-11.qld

Last Altered: Wednesday, March 18, 2020 08:15:06 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 08:22:41 Pacific Daylight Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

#	Name	Area	IS Area	RA	n/y	WL/Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.20e6	2.19e6	0.447	NO	10.16	38.70	38.69	1.15	1.15	NO	195.41	99.3	0.485	
34	34 13C-OCDF	2.91e6	2.19e6	0.889	NO	10.16	41.29	41.34	1.23	1.23	NO	330.70	84.0	0.235	
35	35 37Cl-2,3,7,8-TCDD	8.69e5	2.28e6			10.16	25.72	25.74	1.03	1.03	NO	63.786	81.0	0.037	
36	36 13C-1,2,3,4-TCDD	2.28e6	2.28e6	0.787	NO	10.16	25.11	25.05	1.00	1.00	NO	196.78	100.0	0.133	
37	37 13C-1,2,3,4-TCDF	3.21e6	3.21e6	0.794	NO	10.16	23.37	23.30	1.00	1.00	NO	196.78	100.0	0.125	
38	38 13C-1,2,3,4,6,9-HxCDF	2.19e6	2.19e6	0.511	NO	10.16	33.71	33.71	1.00	1.00	NO	196.78	100.0	0.348	
39	39 Total Tetra-Dioxins		2.40e6			10.16	24.62		0.00		NO	15.834		0.046	16.506
40	40 Total Penta-Dioxins		2.09e6			10.16	29.96		0.00		NO	23.169		0.062	26.236
41	41 Total Hexa-Dioxins		0.00e0			10.16	33.63		0.00		NO	182.25		0.207	183.97
42	42 Total Hepta-Dioxins		1.56e6			10.16	37.64		0.00		NO	1183.0		1.070	1183.0
43	43 Total Tetra-Furans		2.78e6			10.16	23.61		0.00		NO	639.63		0.176	684.35
44	44 1st Func. Penta-Furans		0.00e0			10.16	27.09		0.00		NO	49.999		0.026	49.999
45	45 Total Penta-Furans		0.00e0			10.16	29.27		0.00		NO	803.39		0.215	803.39
46	46 Total Hexa-Furans		0.00e0			10.16	33.56		0.00		NO	1129.4		0.325	1129.4
47	47 Total Hepta-Furans		0.00e0			10.16	37.83		0.00		NO	941.84		0.665	941.84

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-11.qld

Last Altered: Wednesday, March 18, 2020 08:15:06 Pacific Daylight Time
 Printed: Wednesday, March 18, 2020 08:22:41 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00
 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19

Tetra-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	1 2,3,7,8-TCDD	25.75	0.712	NO	1.11e4	1.05e6	2.21	2.21
2	39 Total Tetra-Dioxins	25.56	0.959	YES	8.44e2	1.05e6	0.000	0.129
3	39 Total Tetra-Dioxins	25.47	0.762	NO	1.28e4	1.05e6	2.46	2.46
4	39 Total Tetra-Dioxins	25.20	0.706	NO	5.38e2	1.05e6	0.108	0.108
5	39 Total Tetra-Dioxins	25.05	0.749	NO	1.96e3	1.05e6	0.380	0.380
6	39 Total Tetra-Dioxins	24.66	0.820	NO	2.12e3	1.05e6	0.390	0.390
7	39 Total Tetra-Dioxins	24.46	0.960	YES	1.69e3	1.05e6	0.000	0.259
8	39 Total Tetra-Dioxins	24.19	0.922	YES	1.78e3	1.05e6	0.000	0.284
9	39 Total Tetra-Dioxins	23.97	0.766	NO	6.31e3	1.05e6	1.21	1.21
10	39 Total Tetra-Dioxins	23.75	0.796	NO	5.22e3	1.05e6	0.976	0.976
11	39 Total Tetra-Dioxins	23.46	0.734	NO	2.20e3	1.05e6	0.431	0.431
12	39 Total Tetra-Dioxins	22.53	0.732	NO	2.92e3	1.05e6	0.573	0.573
13	39 Total Tetra-Dioxins	21.62	0.791	NO	2.52e4	1.05e6	4.73	4.73
14	39 Total Tetra-Dioxins	26.72	0.846	NO	9.60e2	1.05e6	0.174	0.174
15	39 Total Tetra-Dioxins	26.23	0.775	NO	6.28e2	1.05e6	0.119	0.119
16	39 Total Tetra-Dioxins	26.08	0.779	NO	3.02e3	1.05e6	0.571	0.571
17	39 Total Tetra-Dioxins	22.01	0.732	NO	7.67e3	1.05e6	1.50	1.50

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-11.qld

Last Altered: Wednesday, March 18, 2020 08:15:06 Pacific Daylight Time
 Printed: Wednesday, March 18, 2020 08:22:41 Pacific Daylight Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19

Penta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	29.74	0.619	NO	1.15e4	8.11e5	2.91	2.91
2	40 Total Penta-Dioxins	29.55	0.672	NO	1.77e4	8.11e5	4.26	4.26
3	40 Total Penta-Dioxins	29.05	0.600	NO	5.80e3	8.11e5	1.49	1.49
4	40 Total Penta-Dioxins	28.56	0.593	NO	2.69e4	8.11e5	6.99	6.99
5	40 Total Penta-Dioxins	31.20	0.639	NO	3.47e3	8.11e5	0.861	0.861
6	40 Total Penta-Dioxins	30.90	0.648	NO	2.62e3	8.11e5	0.645	0.645
7	2 1,2,3,7,8-PeCDD	30.82	0.616	NO	1.38e4	8.11e5	3.49	3.49
8	40 Total Penta-Dioxins	30.38	0.616	NO	3.09e3	8.11e5	0.783	0.783
9	40 Total Penta-Dioxins	30.04	0.584	NO	7.65e3	8.11e5	0.000	2.00
10	40 Total Penta-Dioxins	29.81	0.615	NO	6.82e3	8.11e5	1.73	1.73
11	40 Total Penta-Dioxins	30.07	0.623	NO	4.23e3	8.11e5	0.000	1.06

Hexa-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	34.57	1.275	NO	4.72e4	1.02e6	9.85	9.85
2	41 Total Hexa-Dioxins	34.48	1.526	YES	9.92e3	1.01e6	0.000	1.72
3	4 1,2,3,6,7,8-HxCDD	34.30	1.269	NO	1.12e5	1.12e6	21.4	21.4
4	3 1,2,3,4,7,8-HxCDD	34.19	1.332	NO	1.57e4	8.95e5	3.16	3.16
5	41 Total Hexa-Dioxins	33.52	1.236	NO	3.72e5	1.01e6	79.4	79.4
6	41 Total Hexa-Dioxins	33.27	1.225	NO	3.58e4	1.01e6	7.65	7.65
7	41 Total Hexa-Dioxins	32.72	1.223	NO	2.71e5	1.01e6	58.0	58.0
8	41 Total Hexa-Dioxins	33.63	1.245	NO	1.35e4	1.01e6	2.87	2.87

Hepta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.07	1.022	NO	2.06e6	7.97e5	557	557
2	42 Total Hepta-Dioxins	37.02	1.025	NO	2.32e6	7.97e5	626	626

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-11.qld

Last Altered: Wednesday, March 18, 2020 08:15:06 Pacific Daylight Time
 Printed: Wednesday, March 18, 2020 08:22:41 Pacific Daylight Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19

Tetra-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	20.09	0.774	NO	2.09e4	1.22e6	4.22	4.22
2	43 Total Tetra-Furans	19.57	0.761	NO	7.16e3	1.22e6	1.46	1.46
3	43 Total Tetra-Furans	24.70	0.893	YES	1.36e5	1.22e6	0.000	23.8
4	43 Total Tetra-Furans	24.58	0.687	NO	8.53e3	1.22e6	1.85	1.85
5	43 Total Tetra-Furans	24.34	0.733	NO	1.08e4	1.22e6	2.25	2.25
6	43 Total Tetra-Furans	24.13	0.766	NO	3.78e4	1.22e6	7.69	7.69
7	43 Total Tetra-Furans	23.83	0.763	NO	9.07e5	1.22e6	185	185
8	43 Total Tetra-Furans	23.30	0.759	NO	1.87e5	1.22e6	38.2	38.2
9	43 Total Tetra-Furans	23.19	0.753	NO	4.09e4	1.22e6	8.42	8.42
10	43 Total Tetra-Furans	23.01	0.753	NO	1.06e4	1.22e6	2.18	2.18
11	43 Total Tetra-Furans	22.88	0.772	NO	8.28e3	1.22e6	1.68	1.68
12	43 Total Tetra-Furans	22.41	0.763	NO	4.71e4	1.22e6	9.61	9.61
13	43 Total Tetra-Furans	22.22	0.748	NO	1.60e4	1.22e6	3.30	3.30
14	43 Total Tetra-Furans	22.05	0.771	NO	7.52e4	1.22e6	15.3	15.3
15	43 Total Tetra-Furans	21.57	0.768	NO	2.57e5	1.22e6	52.2	52.2
16	43 Total Tetra-Furans	21.20	0.750	NO	5.57e4	1.22e6	11.5	11.5
17	43 Total Tetra-Furans	20.65	0.759	NO	3.30e5	1.22e6	67.4	67.4
18	43 Total Tetra-Furans	26.87	0.924	YES	1.22e5	1.22e6	0.000	20.6
19	43 Total Tetra-Furans	25.45	0.759	NO	8.66e3	1.22e6	1.77	1.77
20	43 Total Tetra-Furans	25.20	0.751	NO	6.16e4	1.22e6	12.7	12.7
21	8 2,3,7,8-TCDF	24.81	0.743	NO	1.03e6	1.22e6	213	213
22	43 Total Tetra-Furans	26.59	1.336	YES	1.07e3	1.22e6	0.000	0.125
23	43 Total Tetra-Furans	26.29	1.803	YES	2.28e3	1.22e6	0.000	0.198

Penta-Furans function 1

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.89	1.563	NO	3.89e5	1.70e6	50.0	50.0

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-11.qld

Last Altered: Wednesday, March 18, 2020 08:15:06 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 08:22:41 Pacific Daylight Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19

Penta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	30.50	1.538	NO	1.30e6	1.62e6	167	167
2	45 Total Penta-Furans	30.39	1.618	NO	2.00e4	1.70e6	2.54	2.54
3	45 Total Penta-Furans	29.78	1.534	NO	7.84e5	1.70e6	101	101
4	9 1,2,3,7,8-PeCDF	29.51	1.535	NO	2.53e6	1.78e6	312	312
5	45 Total Penta-Furans	29.32	1.531	NO	2.54e5	1.70e6	32.9	32.9
6	45 Total Penta-Furans	29.10	1.514	NO	1.49e5	1.70e6	19.4	19.4
7	45 Total Penta-Furans	28.88	1.757	NO	4.64e3	1.70e6	0.570	0.570
8	45 Total Penta-Furans	28.52	1.542	NO	1.18e6	1.70e6	153	153
9	45 Total Penta-Furans	28.36	1.562	NO	4.88e4	1.70e6	6.26	6.26
10	45 Total Penta-Furans	31.44	1.522	NO	5.97e4	1.70e6	7.75	7.75

P
P

Hexa-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	46 Total Hexa-Furans	32.88	1.215	NO	5.16e5	7.09e5	98.8	98.8
2	46 Total Hexa-Furans	32.70	1.266	NO	1.05e4	7.09e5	1.98	1.98
3	46 Total Hexa-Furans	32.34	1.203	NO	5.10e5	7.09e5	98.1	98.1
4	46 Total Hexa-Furans	32.17	1.222	NO	1.36e5	7.09e5	26.0	26.0
5	14 1,2,3,7,8,9-HxCDF	34.90	1.108	NO	3.34e4	6.26e5	7.95	7.95
6	13 2,3,4,6,7,8-HxCDF	34.02	1.204	NO	2.12e5	7.13e5	40.7	40.7
7	46 Total Hexa-Furans	33.72	1.361	NO	2.28e4	7.09e5	4.16	4.16
8	12 1,2,3,6,7,8-HxCDF	33.45	1.220	NO	9.25e5	7.74e5	172	172
9	11 1,2,3,4,7,8-HxCDF	33.34	1.205	NO	3.15e6	7.22e5	619	619
10	46 Total Hexa-Furans	33.23	1.195	NO	2.61e4	7.09e5	5.04	5.04
11	46 Total Hexa-Furans	34.95	1.193	NO	2.87e5	7.09e5	55.4	55.4

Hepta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	47 Total Hepta-Furans	37.03	0.966	NO	2.06e4	4.28e5	6.99	6.99
2	15 1,2,3,4,6,7,8-HpCDF	36.64	1.003	NO	1.18e6	4.85e5	346	346
3	16 1,2,3,4,7,8,9-HpCDF	38.71	1.013	NO	3.66e5	3.71e5	121	121
4	47 Total Hepta-Furans	37.24	1.015	NO	1.41e6	4.28e5	467	467

Dataset: Untitled

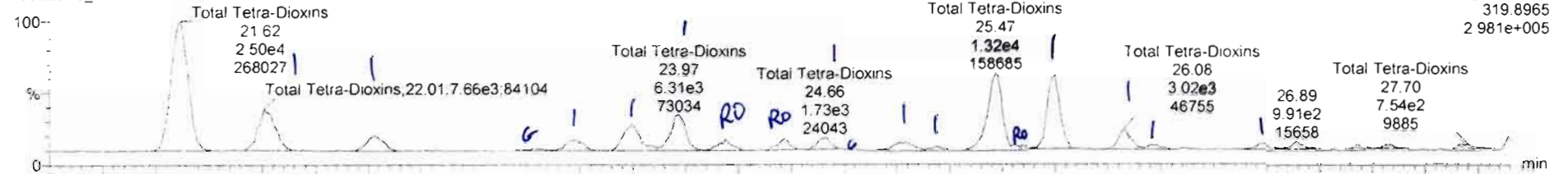
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

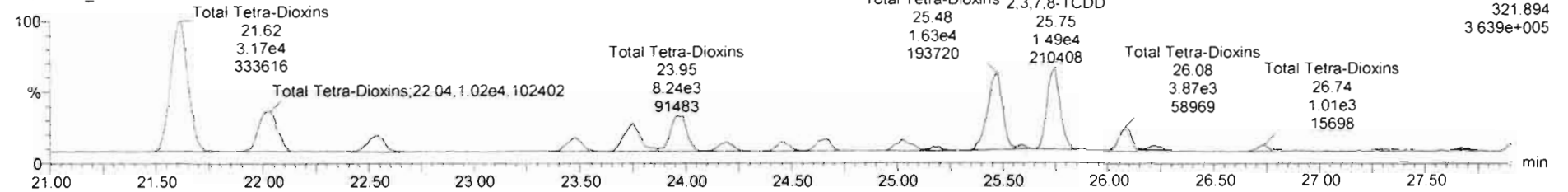
Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

2,3,7,8-TCDD

200223R3_11

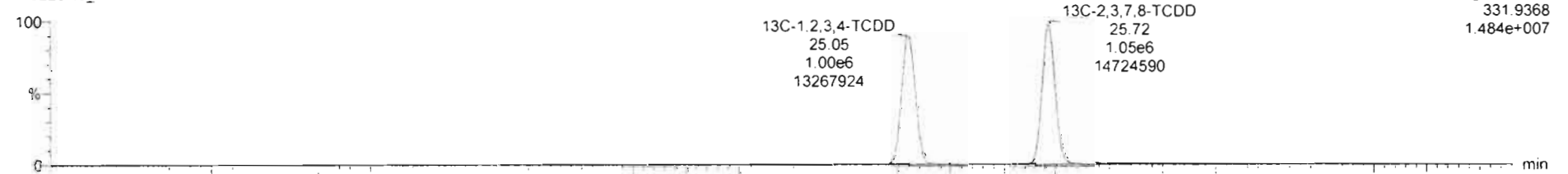


200223R3_11

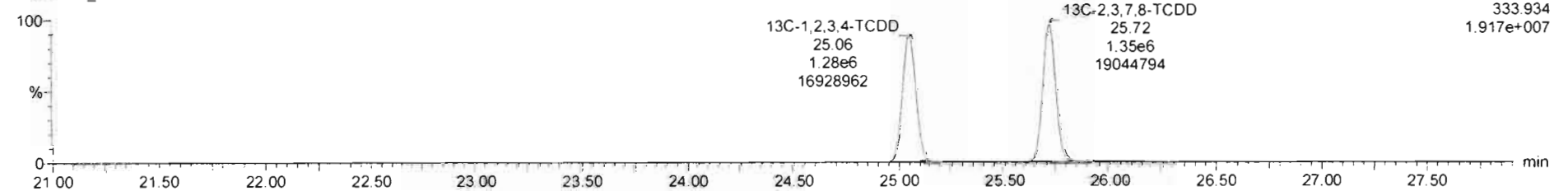


13C-2,3,7,8-TCDD

200223R3_11



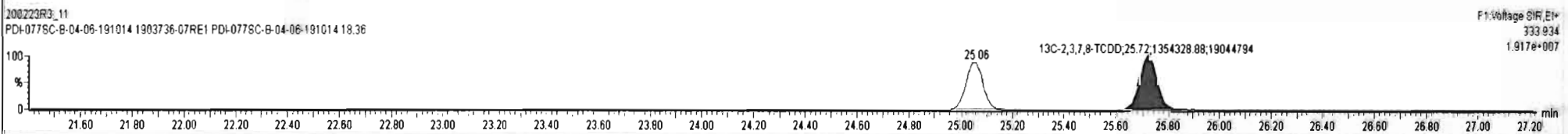
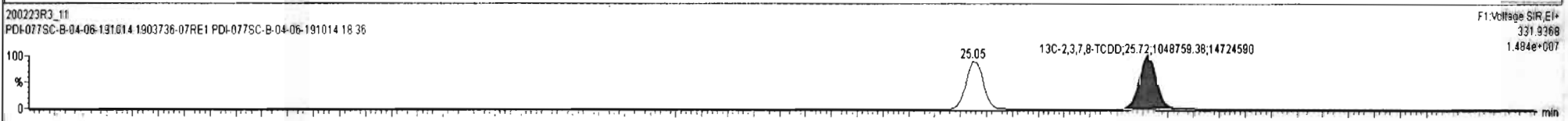
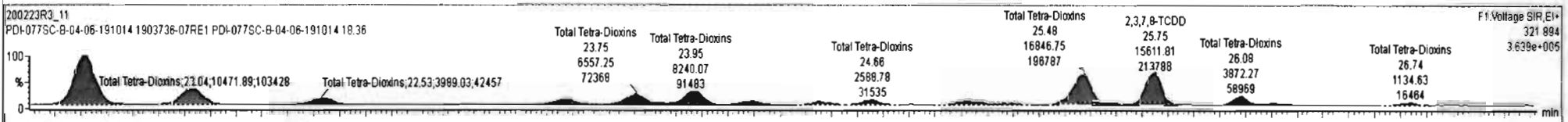
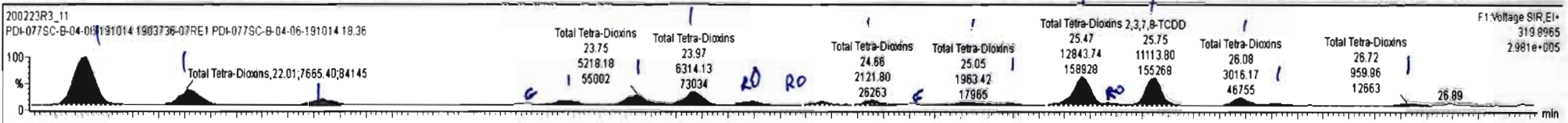
200223R3_11



200223R3_11 - 1903736-07RE1 PDI-077SC-B-04-06-191014 18:36 - PDI-077SC-B-04-06-191014

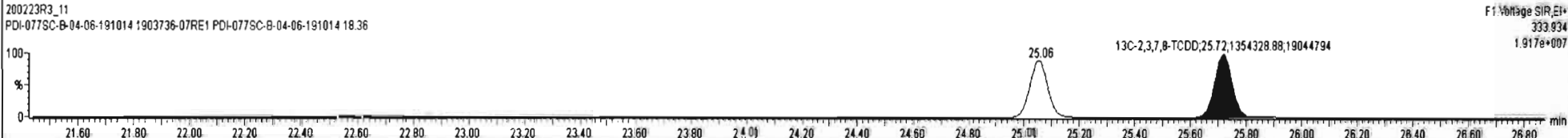
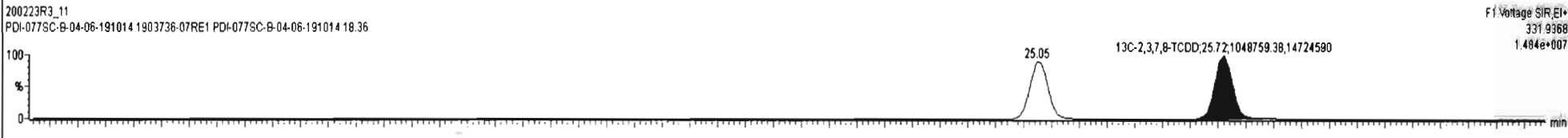
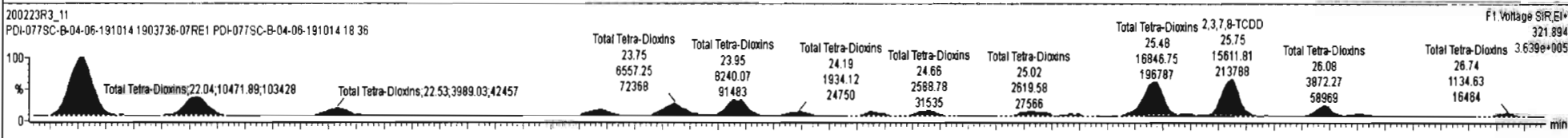
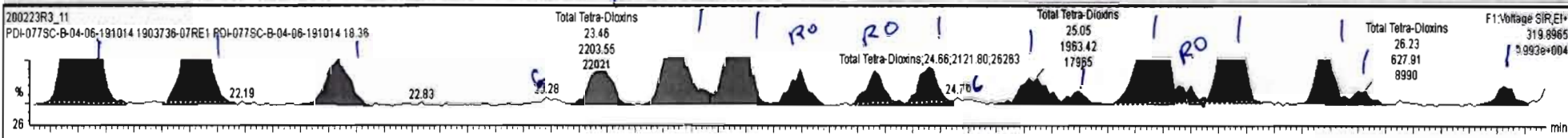
Name	Resp	RA	n/y	RRF	wt/Int	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	2.19e6	0.51	NO	1.00	10.164	33.71	1.000	197	100	0.348	
39 Total Tetra-Dioxins				0.99	10.164			15.8		0.0457	15.5
40 Total Penta-Dioxins				0.97	10.164			23.2		0.0523	26.2

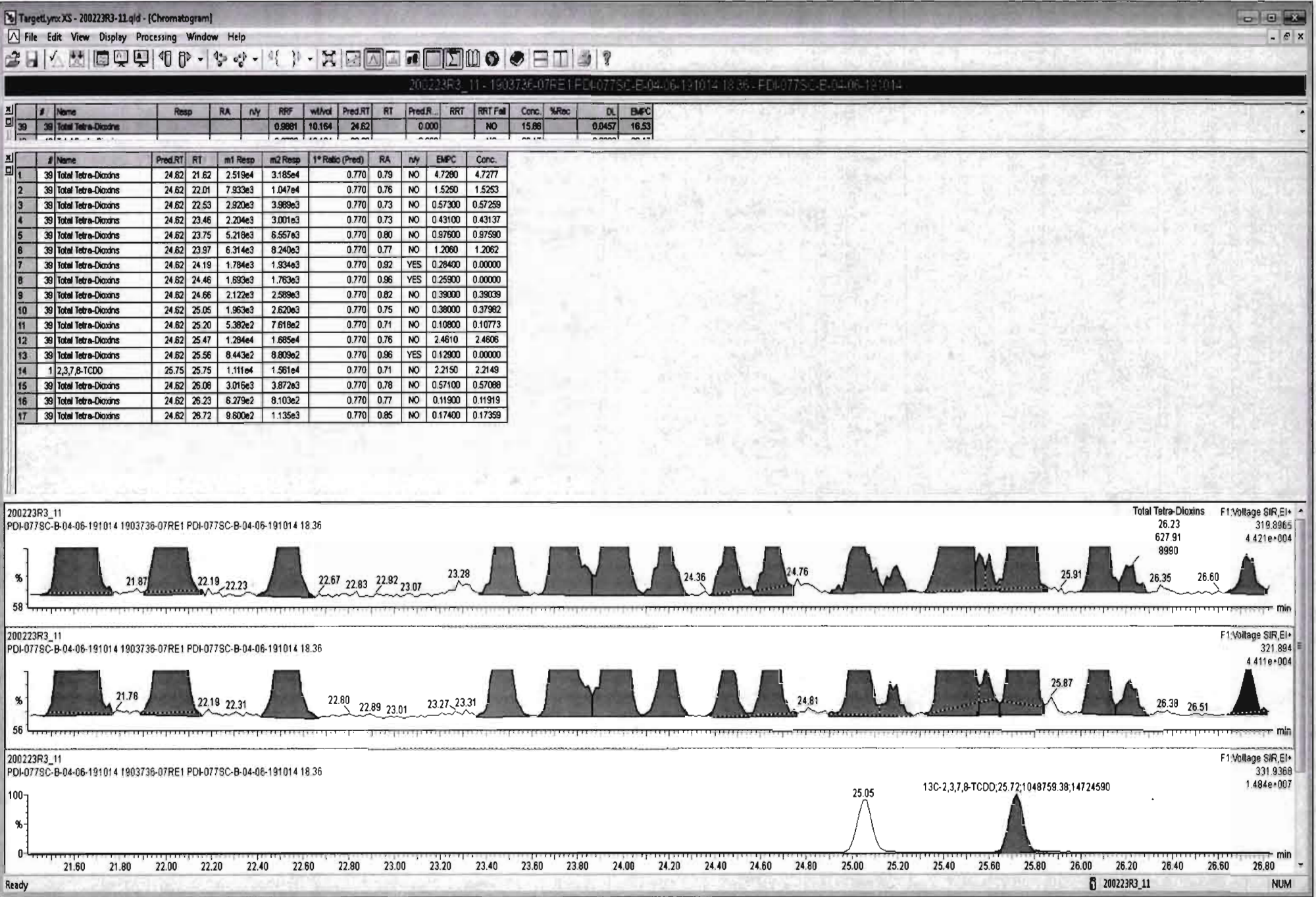
Name	RT	m1 Resp	m2 Resp	1* Ratio (P...	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.62	2.519e4	3.185e4	0.770	0.79	NO	4.7277	4.7277
2 Total Tetra-Dioxins	22.01	7.665e3	1.047e4	0.770	0.73	NO	1.5031	1.5031
3 Total Tetra-Dioxins	22.53	2.920e3	3.989e3	0.770	0.73	NO	0.57259	0.57259
4 Total Tetra-Dioxins	23.46	2.204e3	3.001e3	0.770	0.73	NO	0.43137	0.43137
5 Total Tetra-Dioxins	23.75	5.218e3	6.557e3	0.770	0.80	NO	0.97590	0.97590
6 Total Tetra-Dioxins	23.97	8.314e3	8.240e3	0.770	0.77	NO	1.2062	1.2062
7 Total Tetra-Dioxins	24.19	1.794e3	1.934e3	0.770	0.82	YES	0.28371	0.00000
8 Total Tetra-Dioxins	24.46	1.693e3	1.763e3	0.770	0.96	YES	0.25867	0.00000
9 Total Tetra-Dioxins	24.66	2.122e3	2.599e3	0.770	0.82	NO	0.39039	0.39039
10 Total Tetra-Dioxins	25.05	1.963e3	2.620e3	0.770	0.75	NO	0.37962	0.37962
11 Total Tetra-Dioxins	25.20	5.382e2	7.618e2	0.770	0.71	NO	0.10773	0.10773
12 Total Tetra-Dioxins	25.47	1.284e4	1.685e4	0.770	0.78	NO	2.4606	2.4606
13 Total Tetra-Dioxins	25.56	8.443e2	8.809e2	0.770	0.96	YES	0.12921	0.00000
14 2,3,7,8-TCDD	25.75	1.111e4	1.561e4	0.770	0.71	NO	2.2149	2.2149
15 Total Tetra-Dioxins	26.08	3.016e3	3.872e3	0.770	0.78	NO	0.57088	0.57088
16 Total Tetra-Dioxins	26.23	6.279e2	8.103e2	0.770	0.77	NO	0.11919	0.11919
17 Total Tetra-Dioxins	26.72	9.600e2	1.135e3	0.770	0.85	NO	0.17359	0.17359



#	Name	Resp	RA	nly	RPF	mVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9981	10.184	24.62		0.000		NO	15.86		0.0457	16.53
an	ATI Total Dioxin_Novine				0.0273	10.164	24.96		0.001		NO	36.73		0.0623	36.73

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.62	2.519e4	3.185e4	0.770	0.78	NO	4.7277	4.7277
2	39 Total Tetra-Dioxins	24.62	22.01	7.933e3	1.047e4	0.770	0.76	NO	1.5253	1.5253
3	39 Total Tetra-Dioxins	24.62	22.53	2.920e3	3.989e3	0.770	0.73	NO	0.57259	0.57259
4	39 Total Tetra-Dioxins	24.62	23.46	2.204e3	3.001e3	0.770	0.73	NO	0.43137	0.43137
5	39 Total Tetra-Dioxins	24.62	23.75	5.218e3	6.557e3	0.770	0.80	NO	0.97590	0.97590
6	39 Total Tetra-Dioxins	24.62	23.97	6.314e3	8.240e3	0.770	0.77	NO	1.2062	1.2062
7	39 Total Tetra-Dioxins	24.62	24.19	1.784e3	1.934e3	0.770	0.92	YES	0.28371	0.00000
8	39 Total Tetra-Dioxins	24.62	24.46	1.693e3	1.763e3	0.770	0.96	YES	0.25867	0.00000
9	39 Total Tetra-Dioxins	24.62	24.88	2.122e3	2.589e3	0.770	0.82	NO	0.39039	0.39039
10	39 Total Tetra-Dioxins	24.62	25.05	1.963e3	2.620e3	0.770	0.75	NO	0.37982	0.37982
11	39 Total Tetra-Dioxins	24.62	25.20	5.382e2	7.618e2	0.770	0.71	NO	0.10773	0.10773
12	39 Total Tetra-Dioxins	24.62	25.47	1.285e4	1.685e4	0.770	0.76	NO	2.4611	2.4611
13	39 Total Tetra-Dioxins	24.62	25.58	8.434e2	8.809e2	0.770	0.96	YES	0.12821	0.00000
14	1 2,3,7,8-TCDD	25.75	25.75	1.111e4	1.561e4	0.770	0.71	NO	2.2149	2.2149
15	39 Total Tetra-Dioxins	24.62	26.08	3.016e3	3.872e3	0.770	0.78	NO	0.57088	0.57088
16	39 Total Tetra-Dioxins	24.62	26.23	6.279e2	8.103e2	0.770	0.77	NO	0.11919	0.11919
17	39 Total Tetra-Dioxins	24.62	26.72	9.600e2	1.135e3	0.770	0.85	NO	0.17359	0.17359





Dataset: Untitled

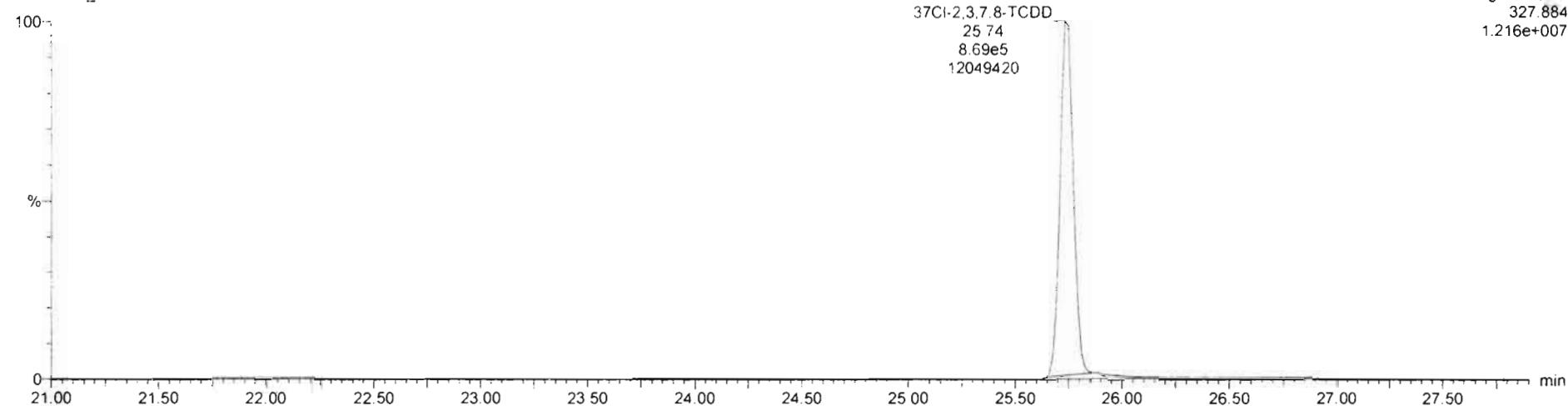
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

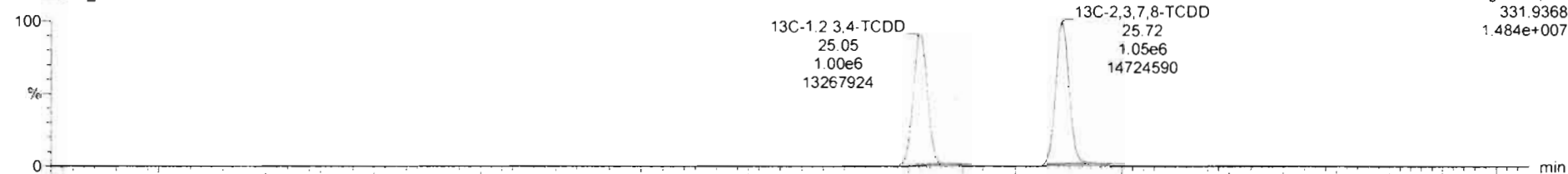
37Cl-2,3,7,8-TCDD

200223R3_11

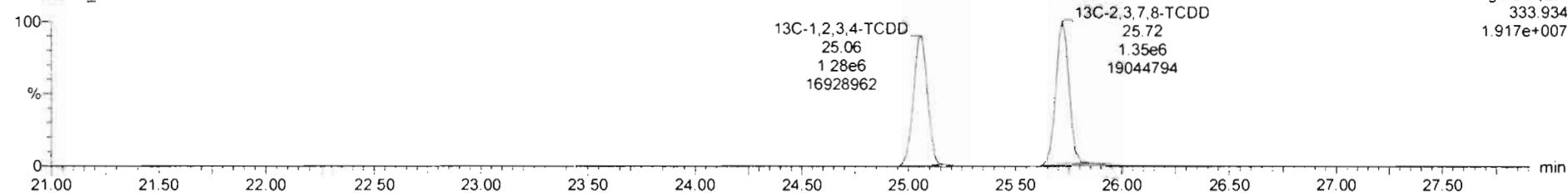


13C-1,2,3,4-TCDD

200223R3_11



200223R3_11



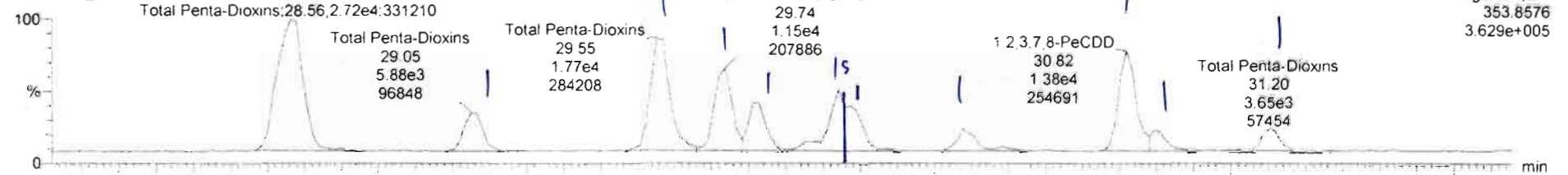
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

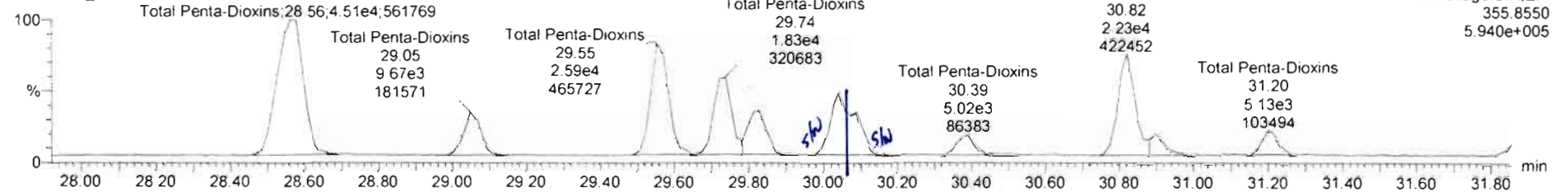
Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

1,2,3,7,8-PeCDD

200223R3_11

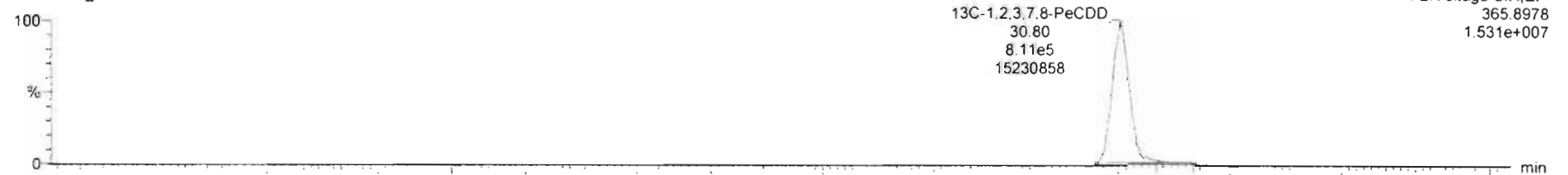


200223R3_11

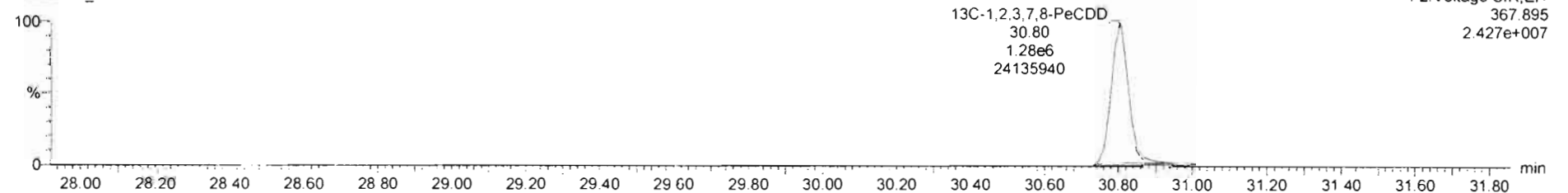


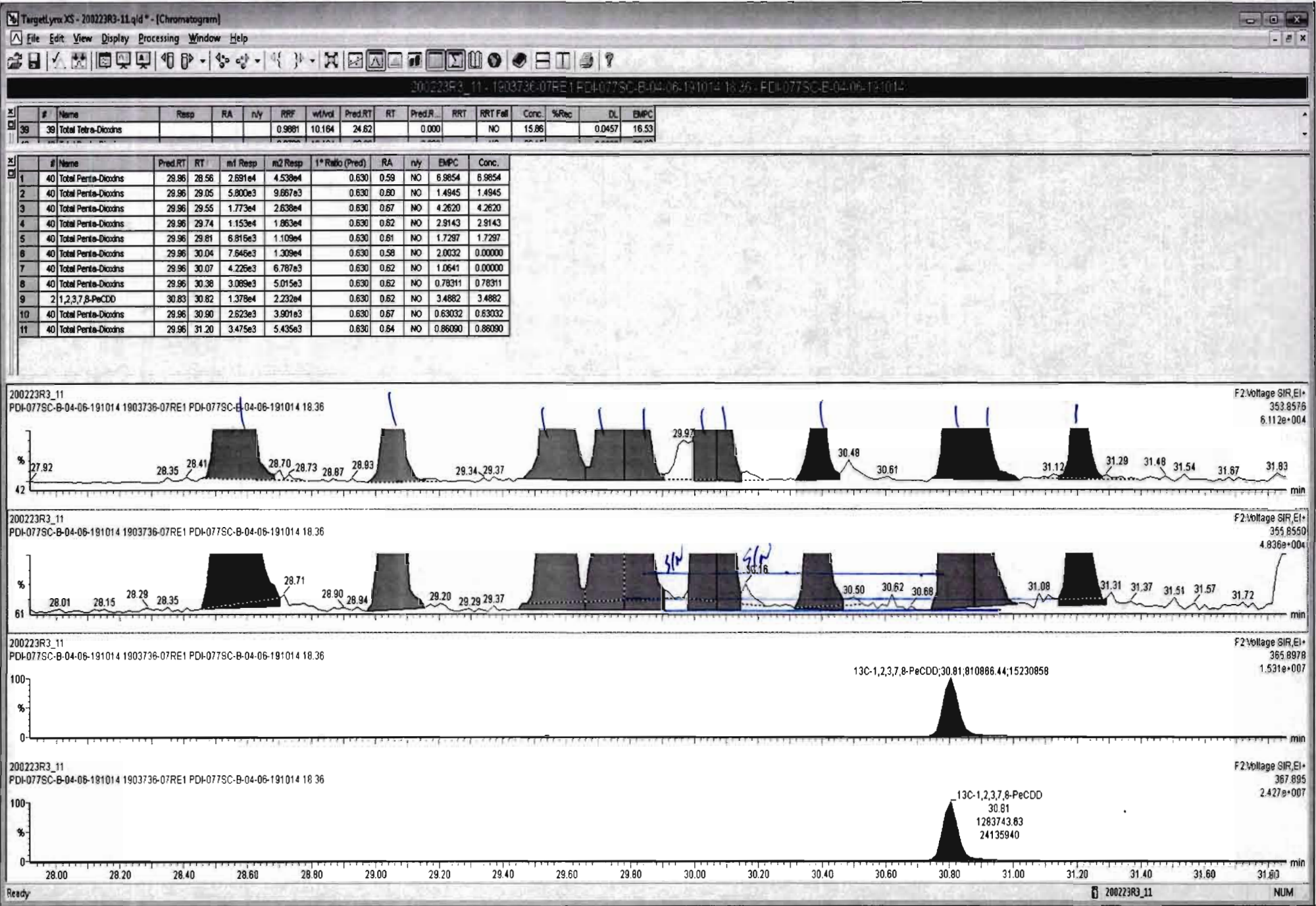
13C-1,2,3,7,8-PeCDD

200223R3_11



200223R3_11





Dataset: Untitled

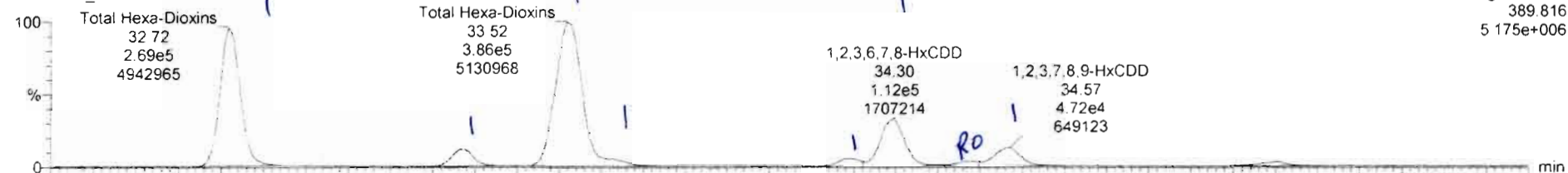
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

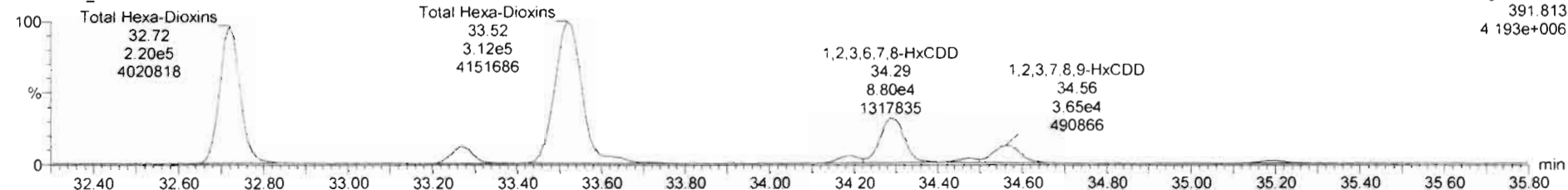
Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

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

200223R3_11

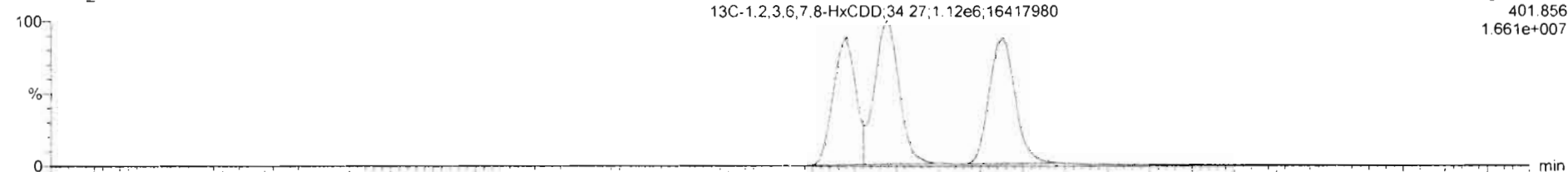


200223R3_11

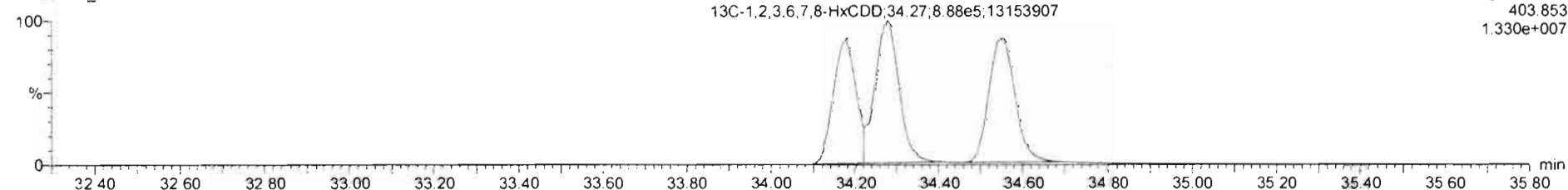


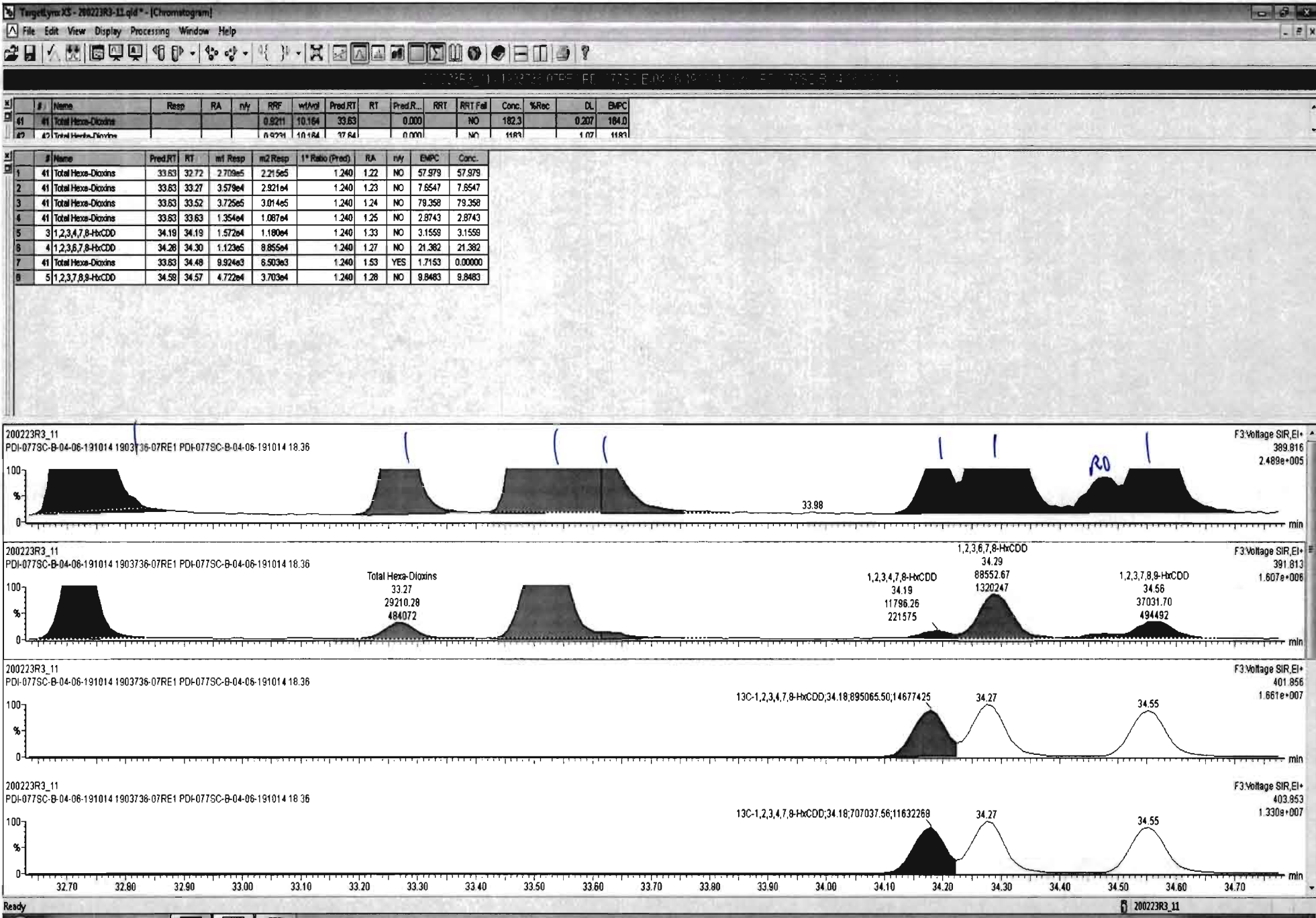
13C-1,2,3,4,7,8-HxCDD

200223R3_11



200223R3_11





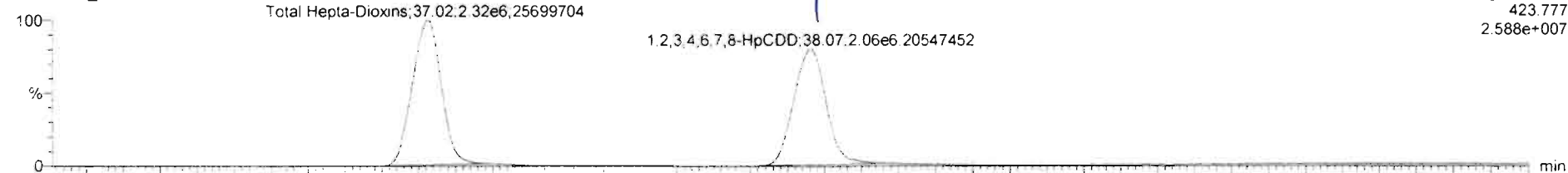
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

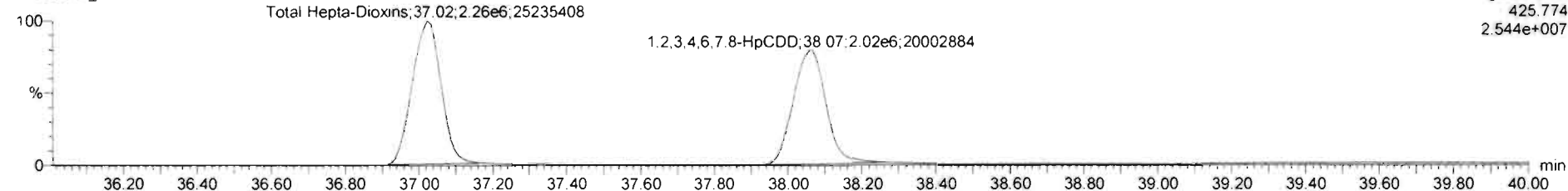
Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

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

200223R3_11

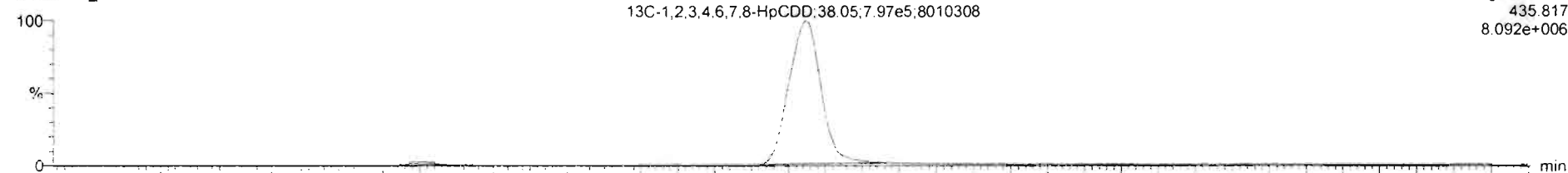


200223R3_11

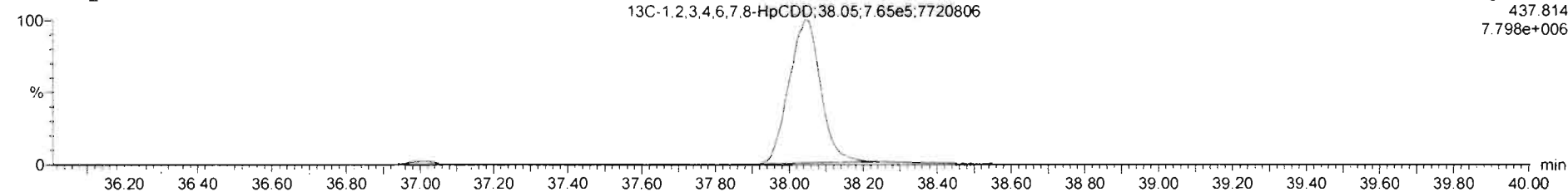


13C-1,2,3,4,6,7,8-HpCDD

200223R3_11



200223R3_11

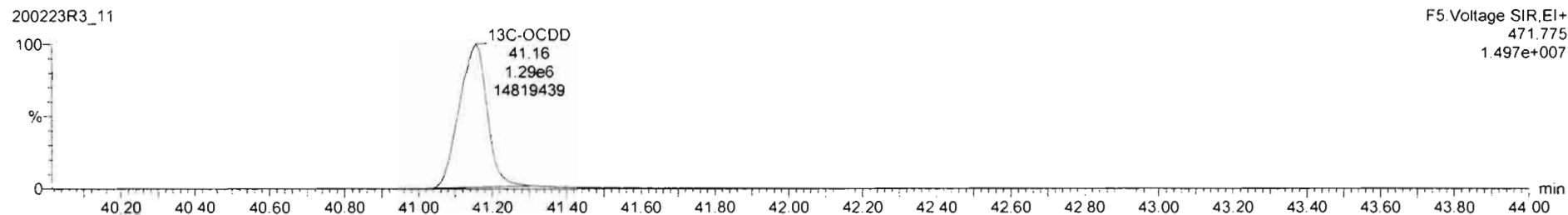
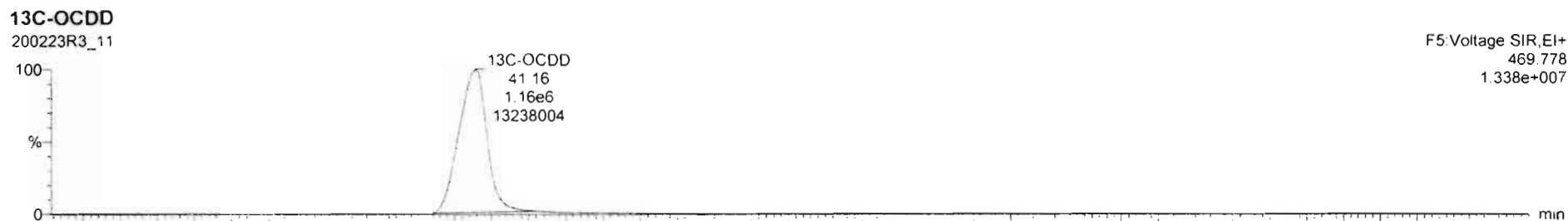
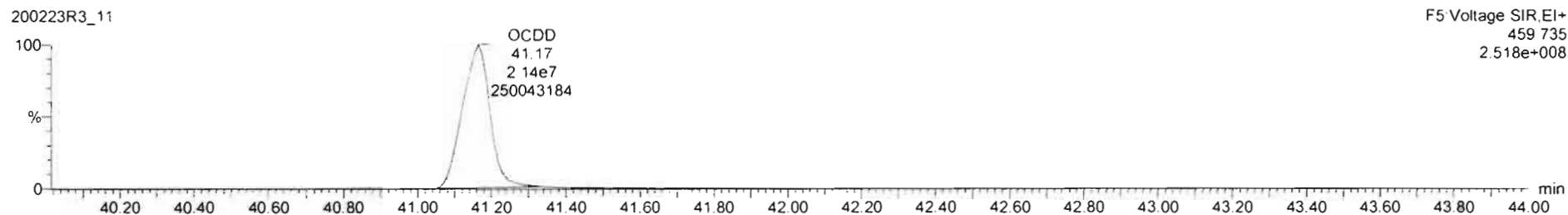


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

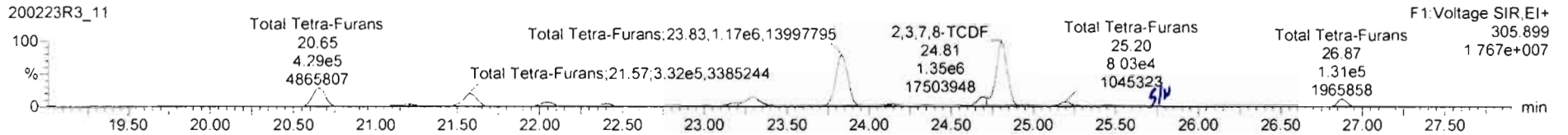
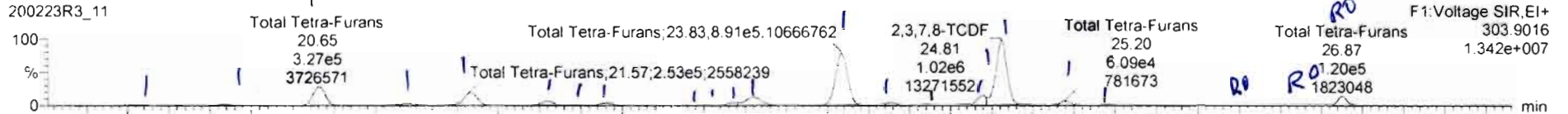


Dataset: Untitled

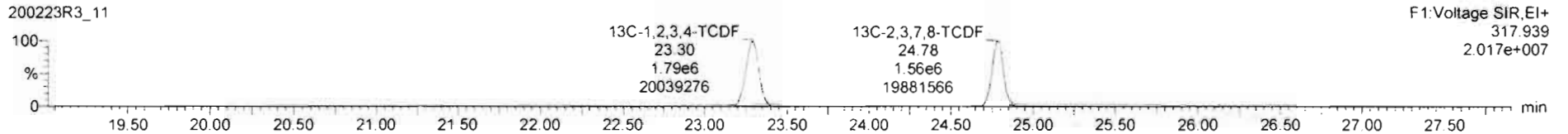
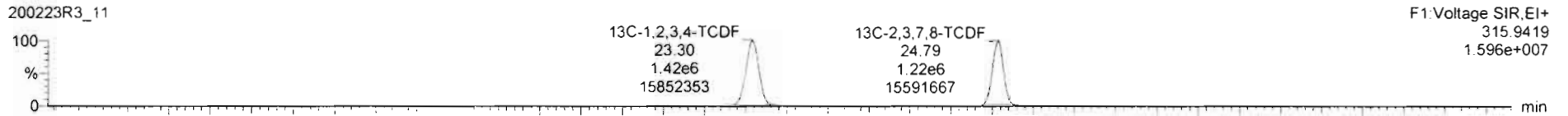
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

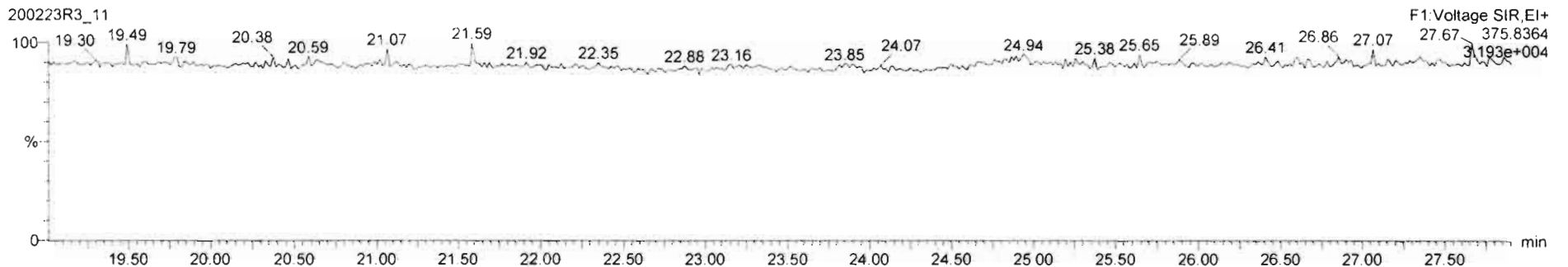
2,3,7,8-TCDF



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

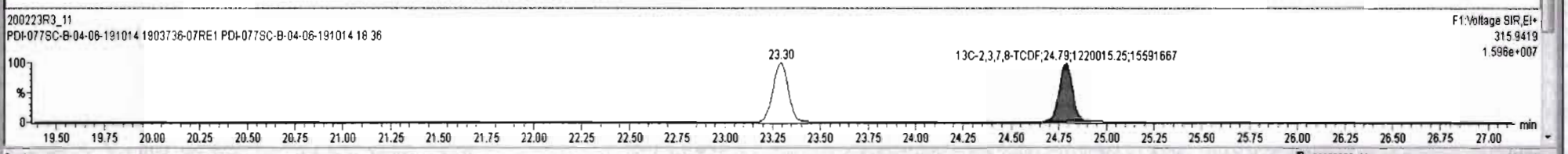
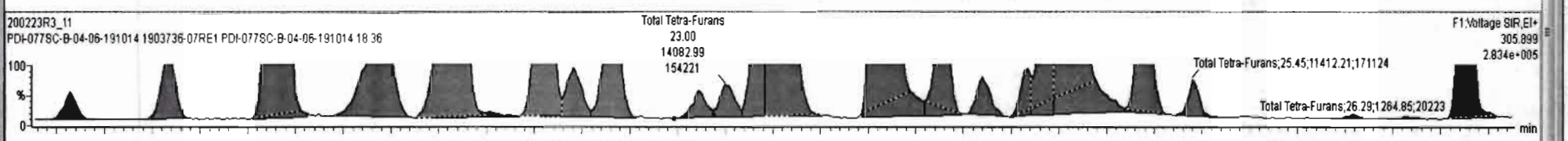
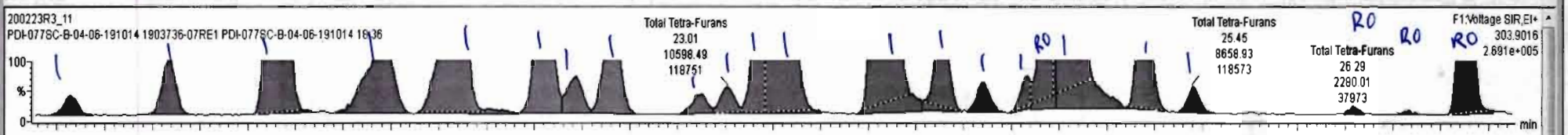


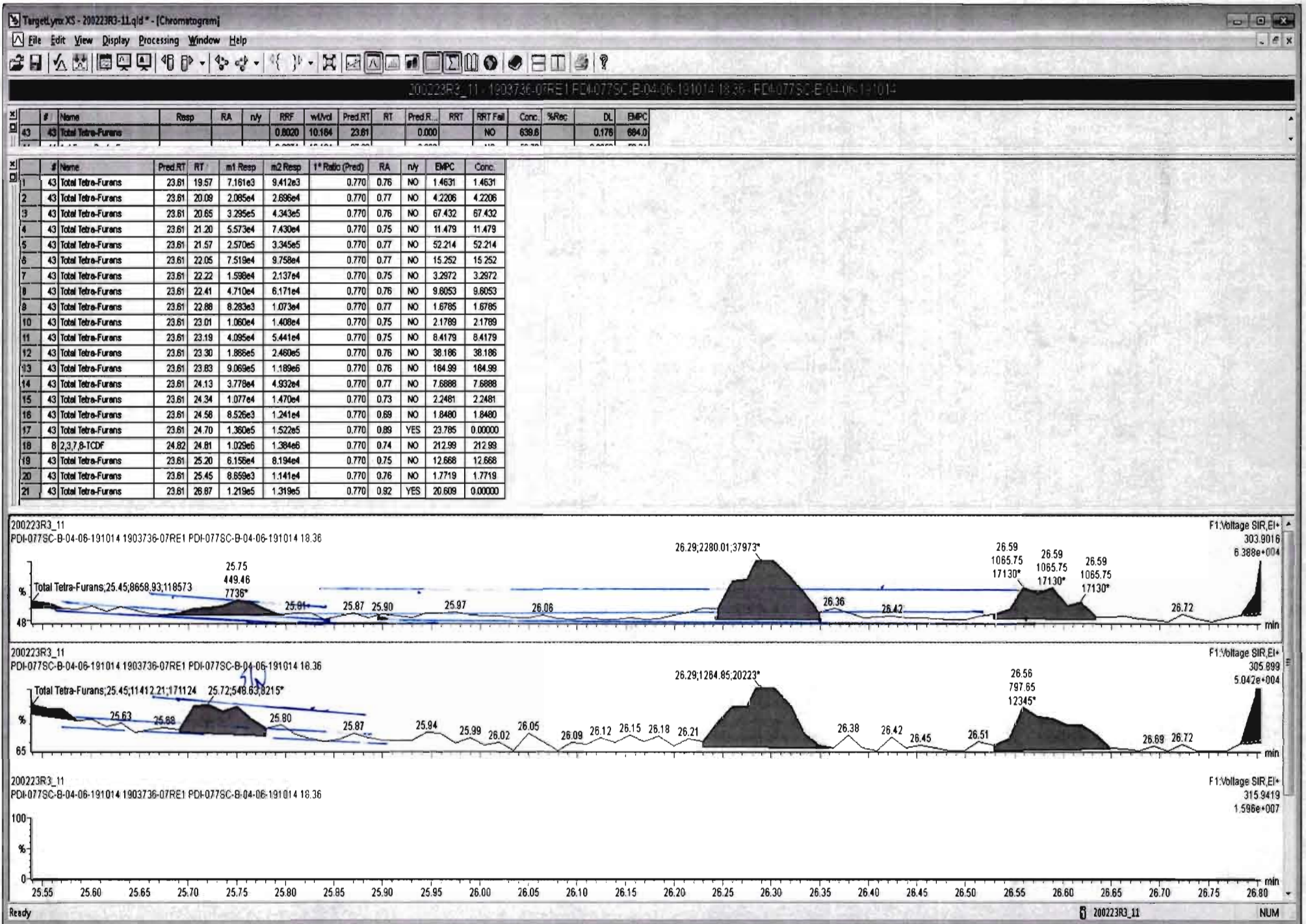
DPE1



#	Name	Resp	RA	n/y	RRF	w/wot	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	10.164	23.61		0.000		NO	638.6		0.176	684.3

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.57	7.161e3	9.412e3	0.770	0.76	NO	1.4631	1.4631
2	43 Total Tetra-Furans	23.61	20.09	2.085e4	2.696e4	0.770	0.77	NO	4.2206	4.2206
3	43 Total Tetra-Furans	23.61	20.65	3.295e5	4.343e5	0.770	0.76	NO	67.432	67.432
4	43 Total Tetra-Furans	23.61	21.20	5.573e4	7.430e4	0.770	0.75	NO	11.479	11.479
5	43 Total Tetra-Furans	23.61	21.57	2.570e5	3.345e5	0.770	0.77	NO	52.214	52.214
6	43 Total Tetra-Furans	23.61	22.05	7.519e4	9.758e4	0.770	0.77	NO	15.252	15.252
7	43 Total Tetra-Furans	23.61	22.22	1.598e4	2.137e4	0.770	0.75	NO	3.2972	3.2972
8	43 Total Tetra-Furans	23.61	22.41	4.710e4	6.171e4	0.770	0.76	NO	9.6053	9.6053
9	43 Total Tetra-Furans	23.61	22.88	8.263e3	1.073e4	0.770	0.77	NO	1.6785	1.6785
10	43 Total Tetra-Furans	23.61	23.01	1.060e4	1.408e4	0.770	0.75	NO	2.1789	2.1789
11	43 Total Tetra-Furans	23.61	23.19	4.095e4	5.441e4	0.770	0.75	NO	8.4179	8.4179
12	43 Total Tetra-Furans	23.61	23.30	1.866e5	2.460e5	0.770	0.76	NO	38.186	38.186
13	43 Total Tetra-Furans	23.61	23.83	9.069e5	1.189e6	0.770	0.76	NO	184.99	184.99
14	43 Total Tetra-Furans	23.61	24.13	3.778e4	4.932e4	0.770	0.77	NO	7.6898	7.6898
15	43 Total Tetra-Furans	23.61	24.34	1.077e4	1.470e4	0.770	0.73	NO	2.2481	2.2481
16	43 Total Tetra-Furans	23.61	24.58	8.526e3	1.241e4	0.770	0.69	NO	1.8480	1.8480
17	43 Total Tetra-Furans	23.61	24.70	1.360e5	1.522e5	0.770	0.89	YES	23.785	0.00000
18	8 2,3,7,8-TCDF	24.82	24.81	1.029e6	1.394e6	0.770	0.74	NO	212.99	212.99
19	43 Total Tetra-Furans	23.61	25.20	6.158e4	8.194e4	0.770	0.75	NO	12.668	12.668
20	43 Total Tetra-Furans	23.61	25.45	8.659e3	1.141e4	0.770	0.76	NO	1.7719	1.7719
21	43 Total Tetra-Furans	23.61	26.29	2.280e3	1.265e3	0.770	1.80	YES	0.19764	0.00000
22	43 Total Tetra-Furans	23.61	26.59	1.066e3	7.977e2	0.770	1.34	YES	0.12464	0.00000
23	43 Total Tetra-Furans	23.61	26.87	1.219e5	1.319e5	0.770	0.92	YES	20.609	0.00000





Dataset: Untitled

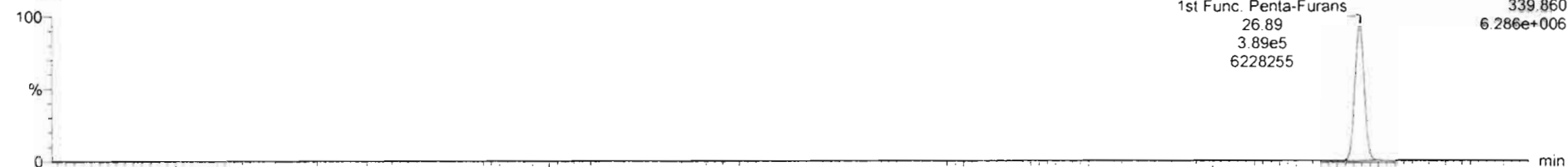
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

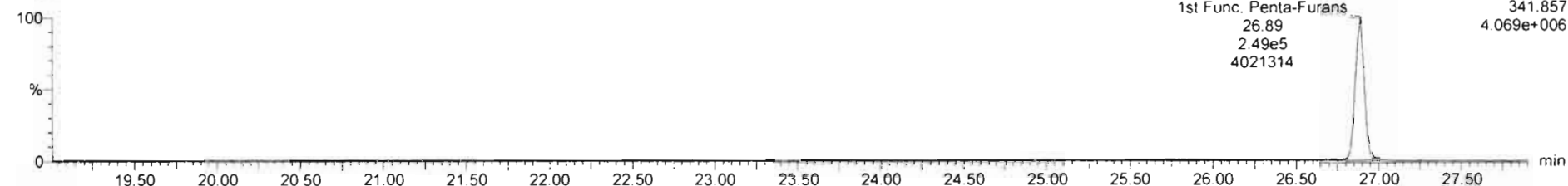
Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

1st Func. Penta-Furans

200223R3_11

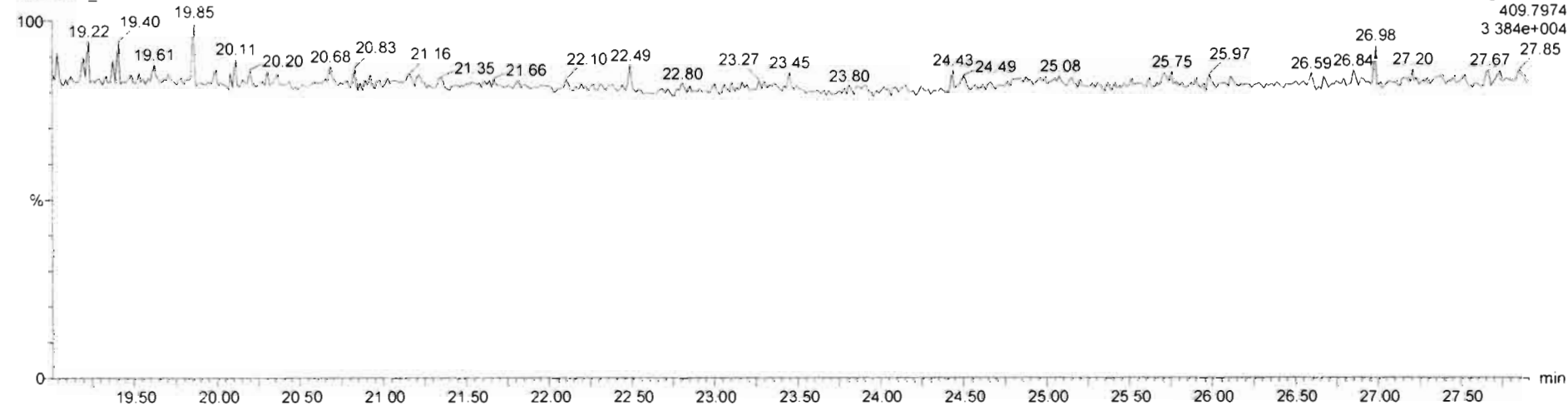


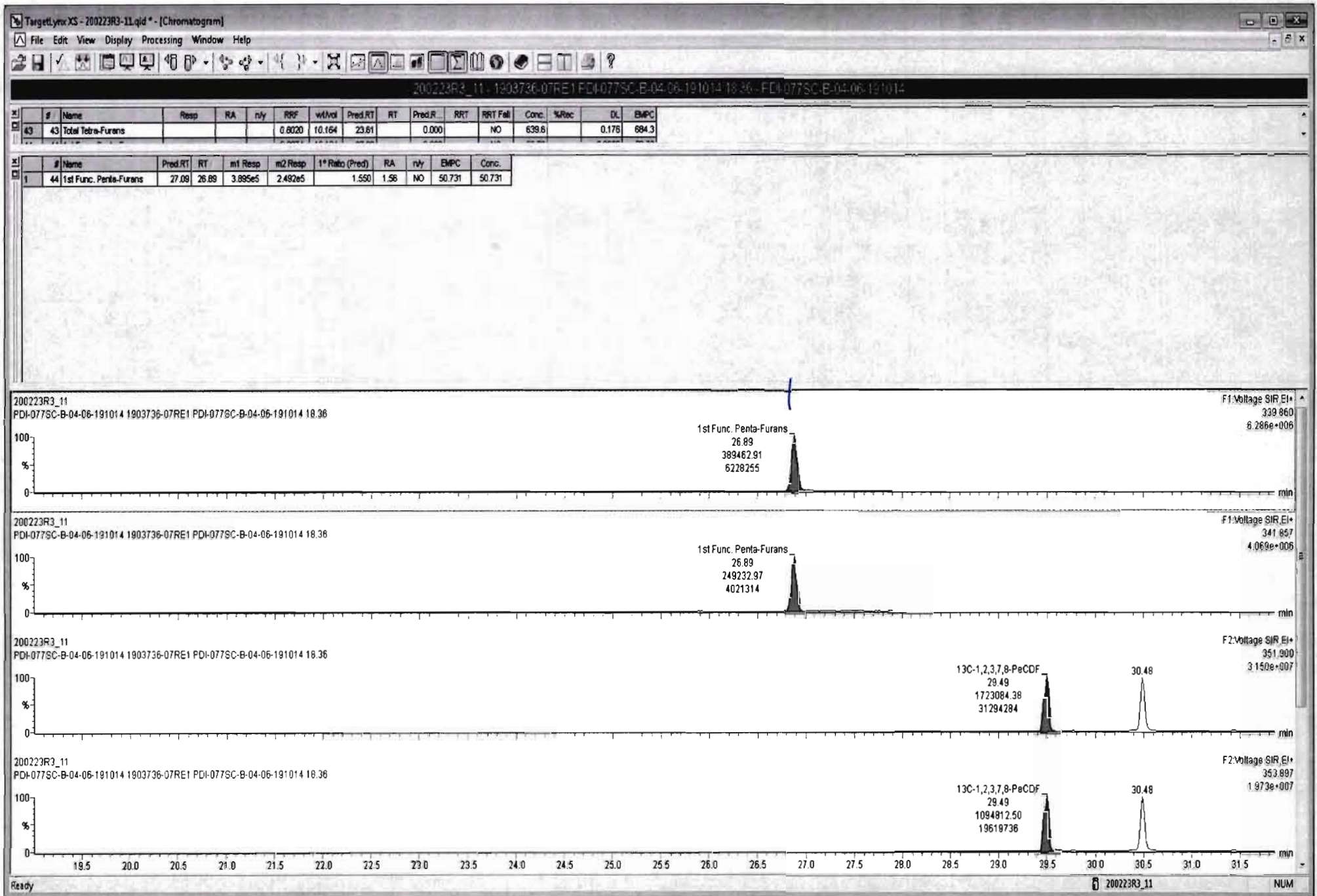
200223R3_11



DPE6

200223R3_11



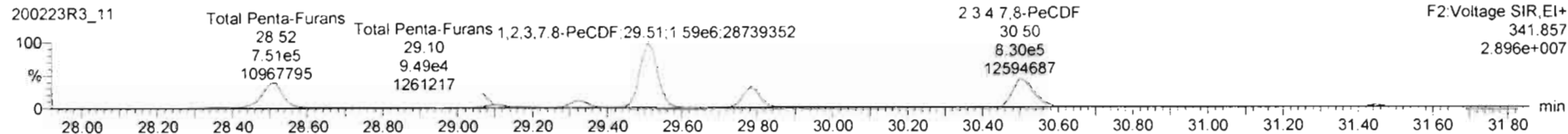
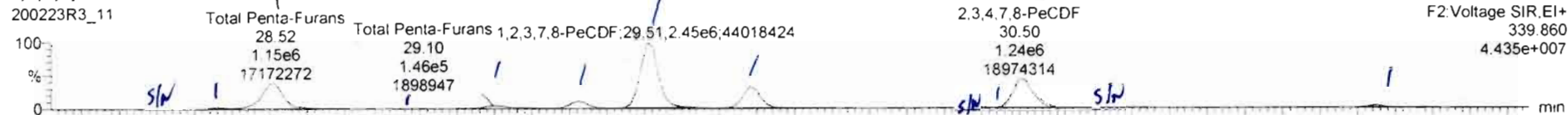


Dataset: Untitled

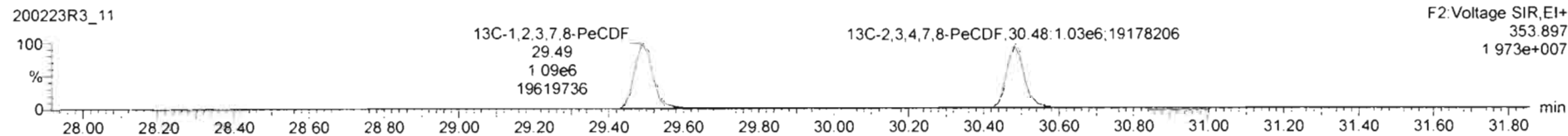
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

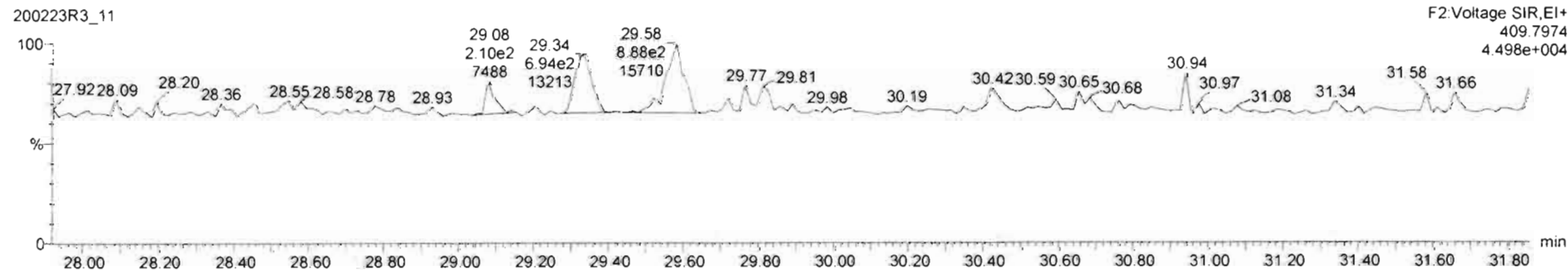
1,2,3,7,8-PeCDF

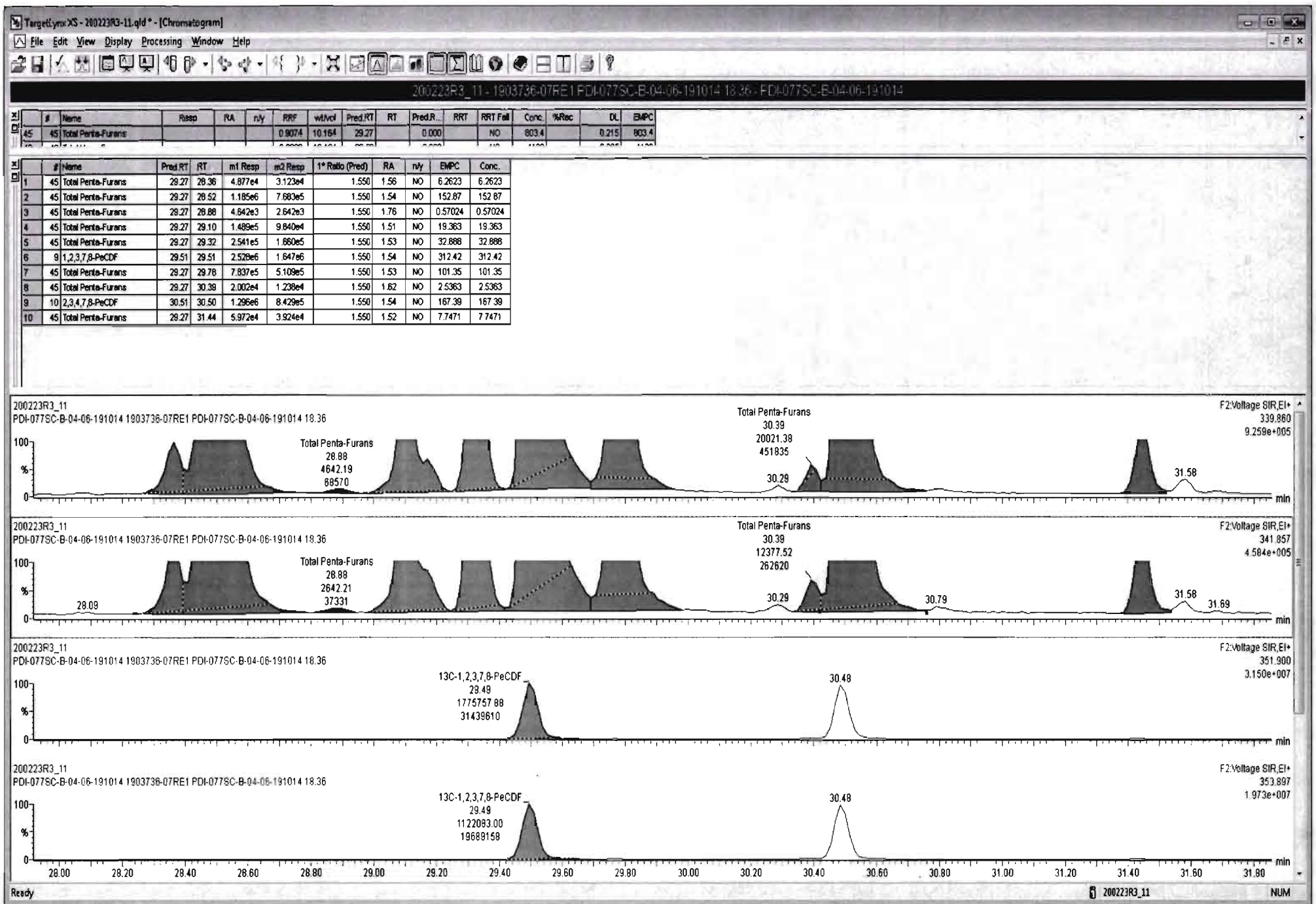


13C-1,2,3,7,8-PeCDF



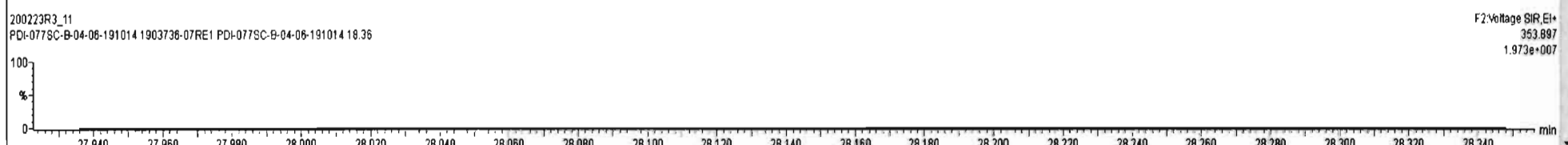
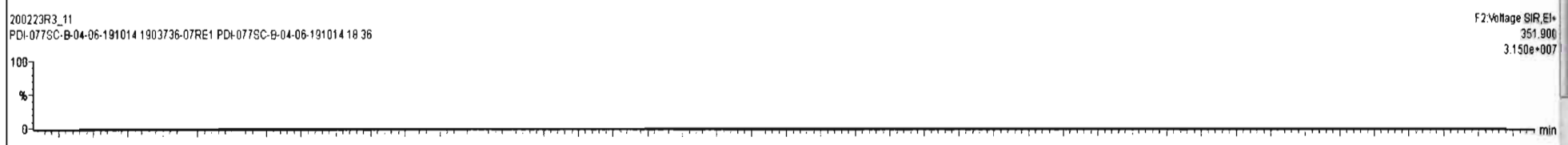
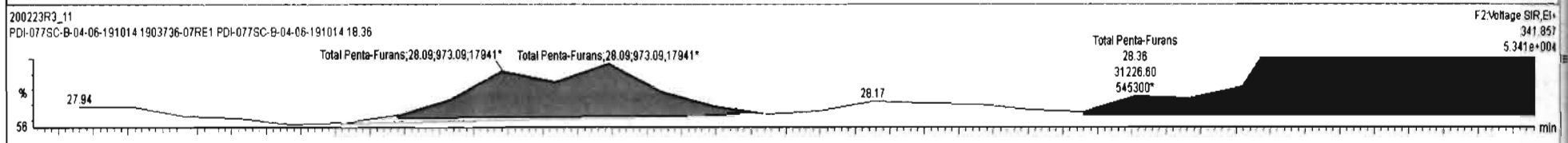
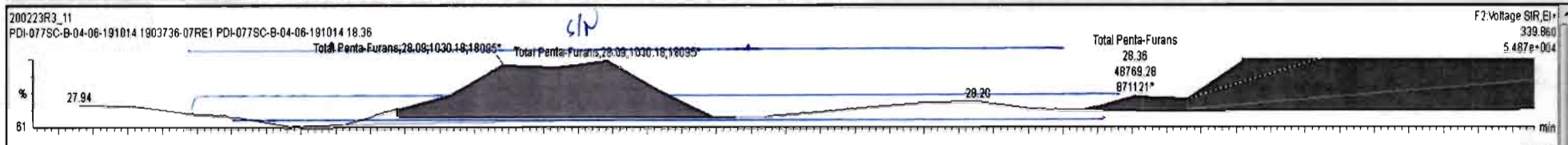
DPE2

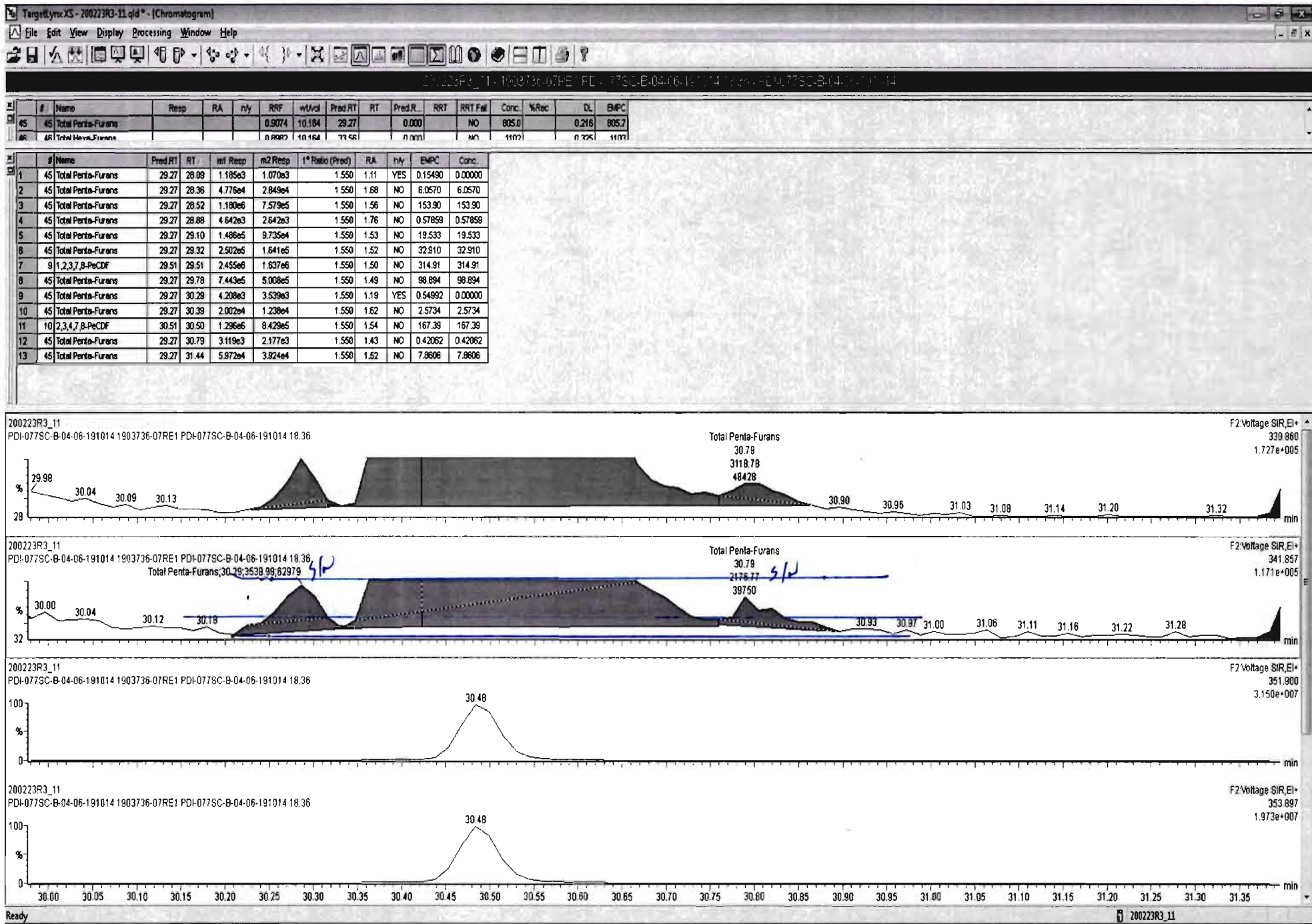




#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.164	27.09		0.000		NO	50.73		0.0258	50.84
45	Total Penta-Furans				0.9074	10.164	28.27		0.000		NO	815.3		0.218	815.4
46	Total Hexa-Furans				0.8982	10.164	33.56		0.000		NO	1102		0.325	1103
47	Total Hepta-Furans				0.8511	10.164	37.83		0.000		NO	941.8		0.665	942.3

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.09	1.185e3	1.070e3	1.550	1.11	YES	0.15490	0.00000
2	45 Total Penta-Furans	29.27	28.38	4.776e4	2.849e4	1.550	1.88	NO	6.0570	6.0570
3	45 Total Penta-Furans	29.27	28.52	1.180e6	7.579e5	1.550	1.56	NO	153.90	153.90
4	45 Total Penta-Furans	29.27	28.88	4.642e3	2.842e3	1.550	1.76	NO	0.57859	0.57859
5	45 Total Penta-Furans	29.27	29.10	1.486e5	9.735e4	1.550	1.53	NO	19.533	19.533
6	45 Total Penta-Furans	29.27	29.32	2.541e5	1.860e5	1.550	1.53	NO	33.370	33.370
7	9 1,2,3,7,8-PeCDF	29.51	29.51	2.529e6	1.846e6	1.550	1.54	NO	321.19	321.19
8	45 Total Penta-Furans	29.27	29.78	7.837e5	5.109e5	1.550	1.53	NO	102.83	102.83
9	45 Total Penta-Furans	29.27	30.39	2.002e4	1.238e4	1.550	1.62	NO	2.5734	2.5734
10	10 2,3,4,7,8-PeCDF	30.51	30.50	1.298e6	8.429e5	1.550	1.54	NO	167.39	167.39
11	45 Total Penta-Furans	29.27	31.44	5.972e4	3.924e4	1.550	1.52	NO	7.8606	7.8606





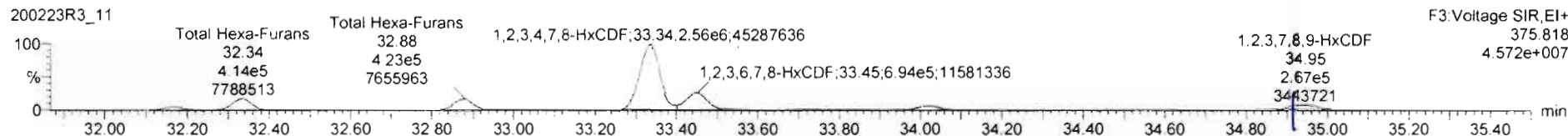
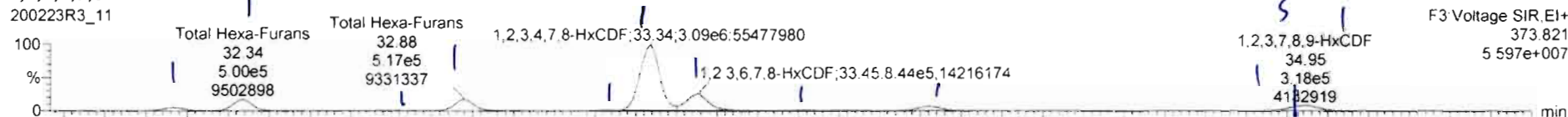
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

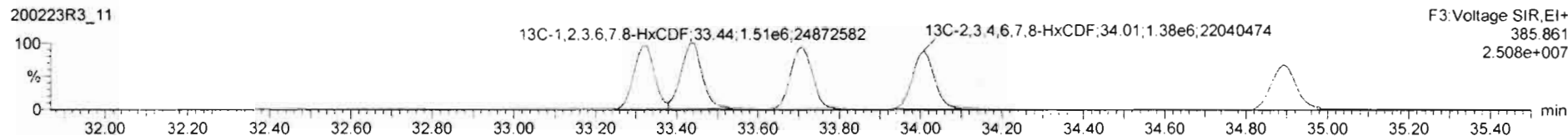
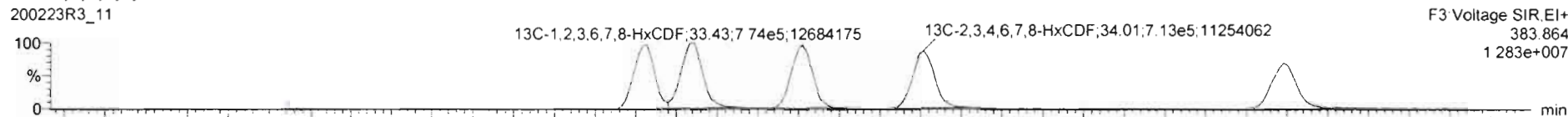
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

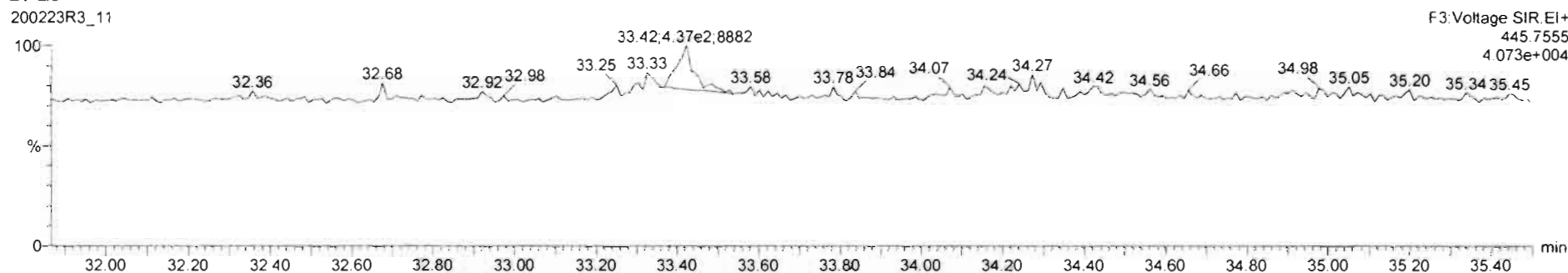
1,2,3,4,7,8-HxCDF

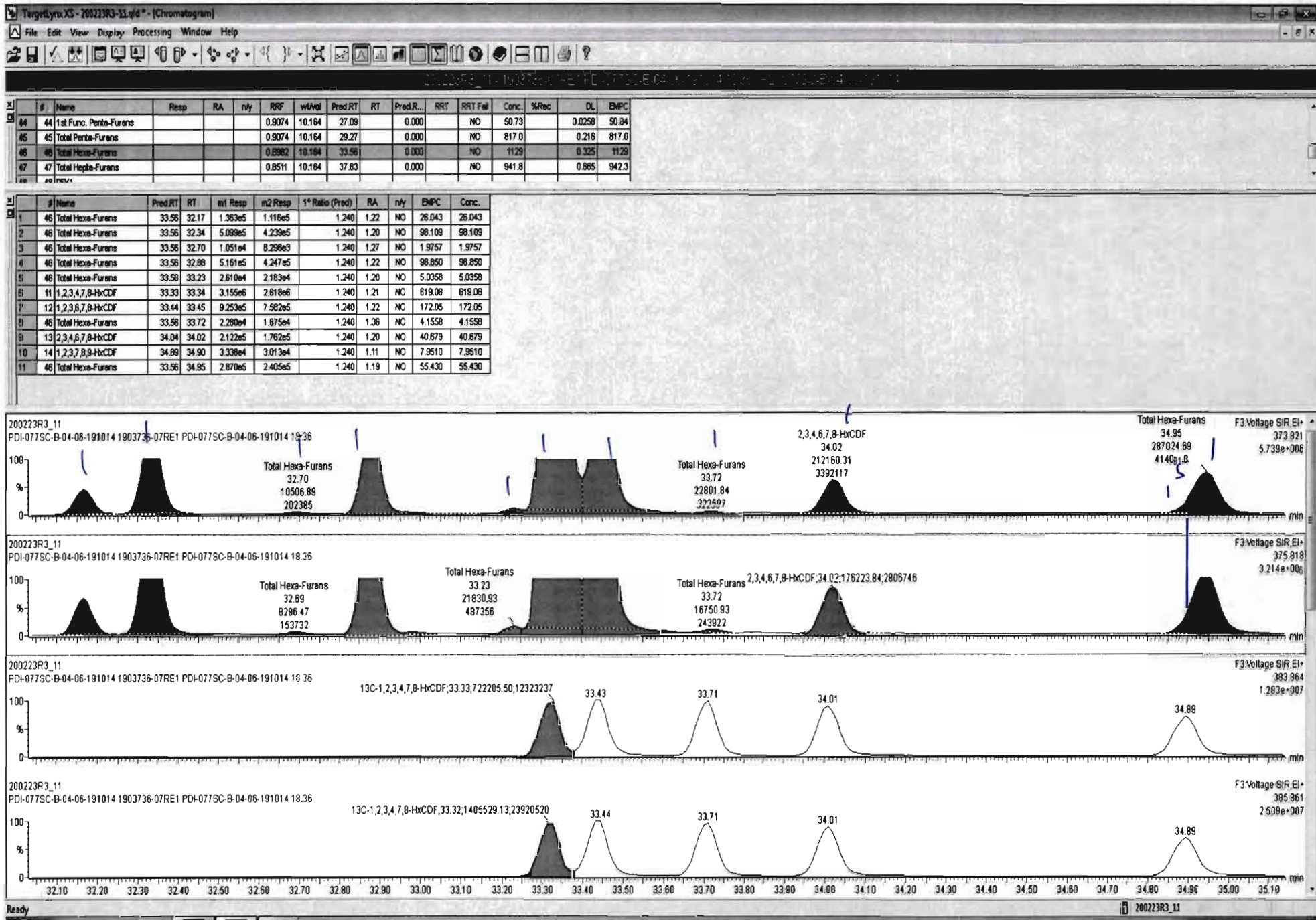


13C-1,2,3,4,7,8-HxCDF



DPE3

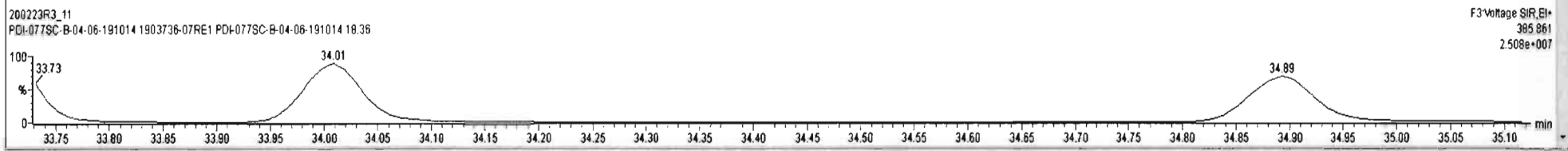
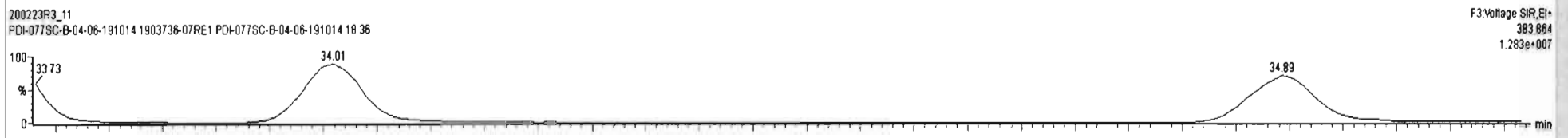
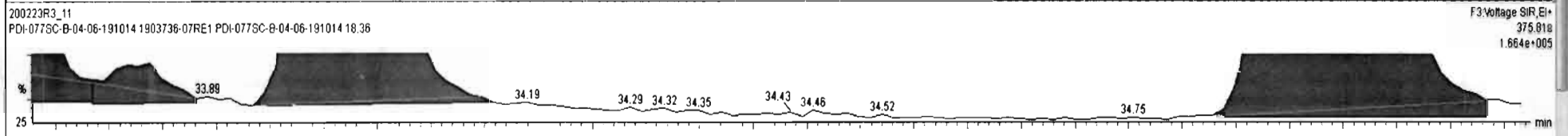
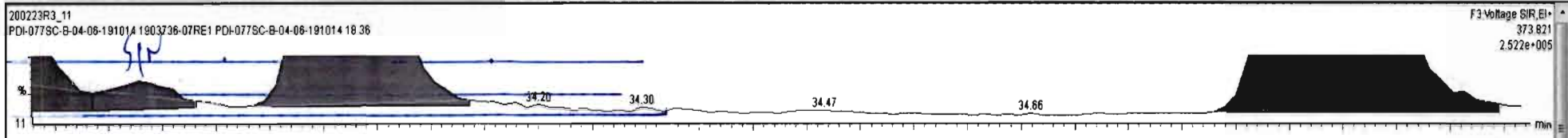




200223R3_11 - 1903736-07RE1 PDI-077SC-B-04-06-191014 18 36 - PDI-077SC-B-04-06-191014

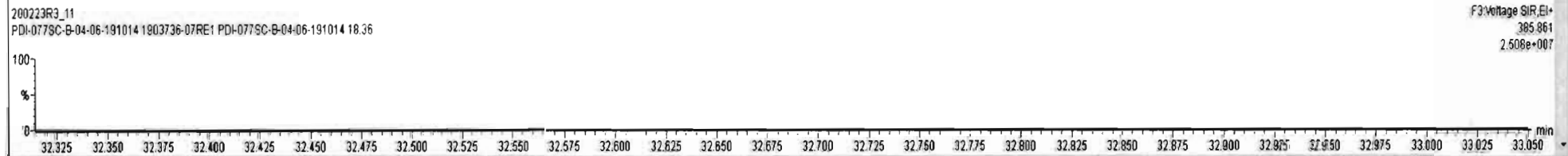
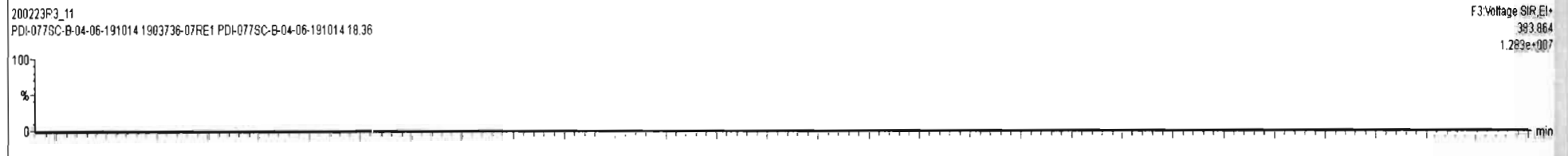
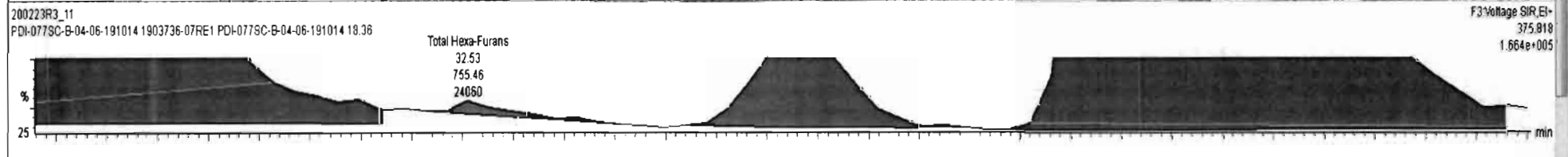
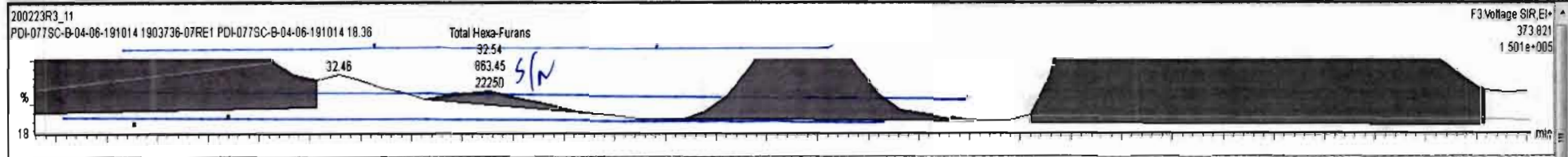
#	Name	Resp	RA	n/y	RRF	wtAval	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.164	27.09		0.000		NO	50.73		0.0258	50.84
45	Total Penta-Furans				0.9074	10.164	29.27		0.000		NO	817.0		0.216	817.0
46	Total Hexa-Furans				0.8962	10.184	33.58		0.000		NO	1102		0.325	1103
47	Total Hepta-Furans				0.8511	10.164	37.83		0.000		NO	941.8		0.665	942.3

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.17	1.339e5	1.094e5	1.240	1.22	NO	25.561	25.561
2	46 Total Hexa-Furans	33.56	32.34	5.000e5	4.136e5	1.240	1.21	NO	95.994	95.994
3	46 Total Hexa-Furans	33.56	32.54	8.634e2	7.555e2	1.240	1.14	NO	0.17010	0.17010
4	46 Total Hexa-Furans	33.56	32.70	1.051e4	8.296e3	1.240	1.27	NO	1.9757	1.9757
5	46 Total Hexa-Furans	33.56	32.88	5.174e5	4.228e5	1.240	1.22	NO	98.795	98.795
6	46 Total Hexa-Furans	33.56	33.23	3.293e3	3.139e3	1.240	1.05	YES	0.62503	0.00000
7	11 1,2,3,4,7,8-HxCDF	33.33	33.34	3.090e6	2.962e6	1.240	1.21	NO	606.18	606.18
8	12 1,2,3,6,7,8-HxCDF	33.44	33.46	8.439e5	8.939e5	1.240	1.22	NO	157.15	157.15
9	46 Total Hexa-Furans	33.56	33.72	1.144e4	1.059e4	1.240	1.08	NO	2.3145	2.3145
10	46 Total Hexa-Furans	33.56	33.83	2.306e3	2.614e3	1.240	0.88	YES	0.43778	0.00000
11	13 2,3,4,6,7,8-HxCDF	34.04	34.02	2.105e5	1.751e5	1.240	1.20	NO	40.393	40.393
12	14 1,2,3,7,8,9-HxCDF	34.89	34.95	3.180e5	2.671e5	1.240	1.19	NO	73.252	73.252



#	Name	Resp	RA	n/y	RRF	wbvol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.164	27.09		0.000		NO	50.73		0.0259	50.84
45	Total Penta-Furans				0.9074	10.164	29.27		0.000		NO	817.0		0.216	817.0
46	Total Hexa-Furans				0.8862	10.164	33.56		0.000		NO	1102		0.325	1103
47	Total Hepta-Furans				0.8511	10.164	37.83		0.000		NO	941.8		0.665	942.3

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.17	1.338e5	1.084e5	1.240	1.22	NO	25.561	25.561
2	46 Total Hexa-Furans	33.56	32.34	5.000e5	4.136e5	1.240	1.21	NO	95.994	85.994
3	46 Total Hexa-Furans	33.56	32.54	8.634e2	7.555e2	1.240	1.14	NO	0.17010	0.17010
4	46 Total Hexa-Furans	33.56	32.70	1.051e4	8.296e3	1.240	1.27	NO	1.9757	1.9757
5	46 Total Hexa-Furans	33.56	32.88	5.174e5	4.228e5	1.240	1.22	NO	98.795	98.795
6	46 Total Hexa-Furans	33.56	33.23	3.293e3	3.139e3	1.240	1.05	YES	0.62503	0.00000
7	11 1,2,3,4,7,8-HxCDF	33.33	33.34	3.080e6	2.562e6	1.240	1.21	NO	606.18	606.18
8	12 1,2,3,6,7,8-HxCDF	33.44	33.46	8.439e5	6.939e5	1.240	1.22	NO	157.15	157.15
9	46 Total Hexa-Furans	33.56	33.72	1.144e4	1.059e4	1.240	1.08	NO	2.3145	2.3145
10	46 Total Hexa-Furans	33.56	33.83	2.306e3	2.614e3	1.240	0.88	YES	0.43778	0.00000
11	13 1,2,3,4,6,7,8-HxCDF	34.04	34.02	2.105e5	1.751e5	1.240	1.20	NO	40.393	40.393
12	14 1,2,3,7,8,9-HxCDF	34.89	34.95	3.180e5	2.671e5	1.240	1.18	NO	73.252	73.252

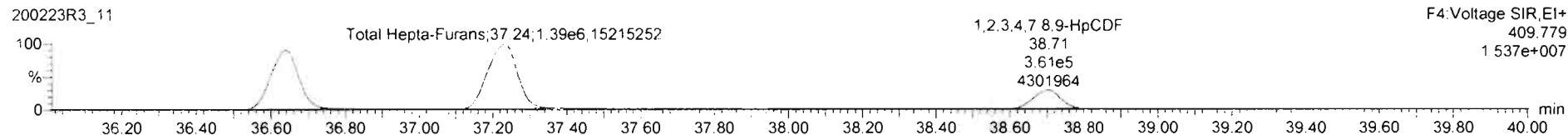
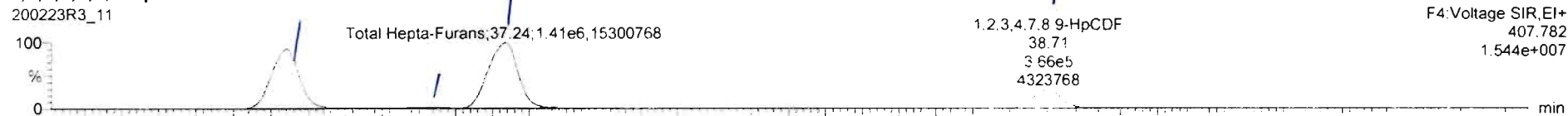


Dataset: Untitled

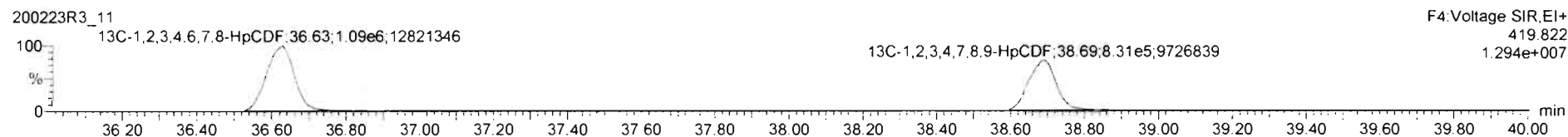
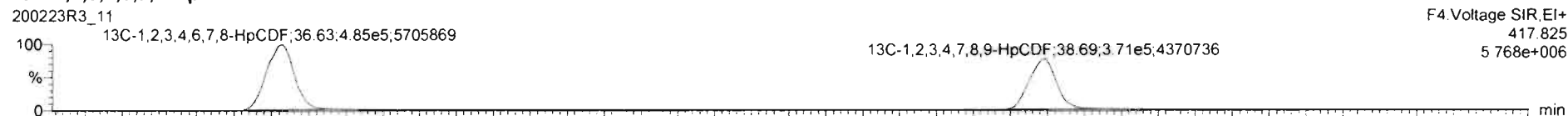
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

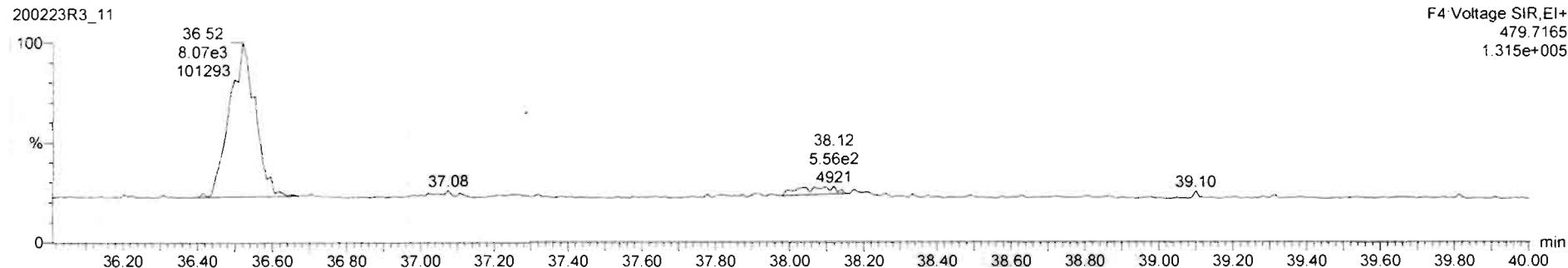
1,2,3,4,6,7,8-HpCDF



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



DPE4

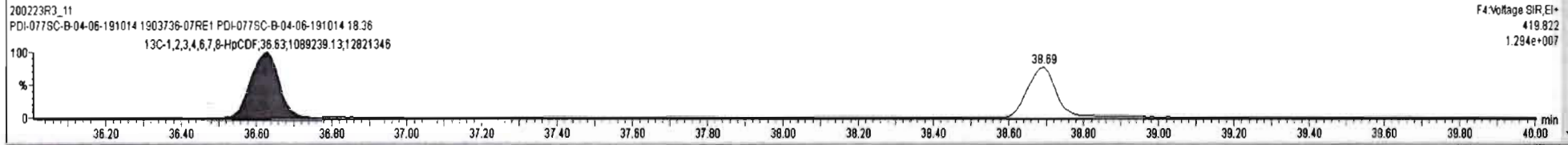
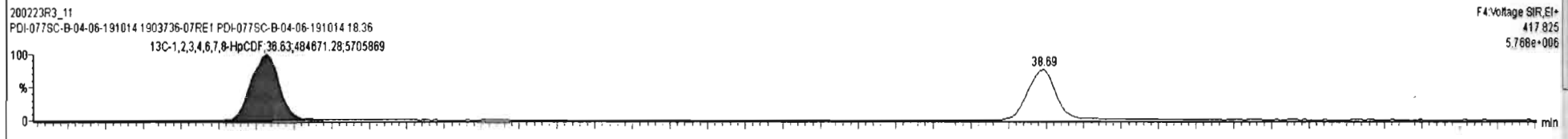
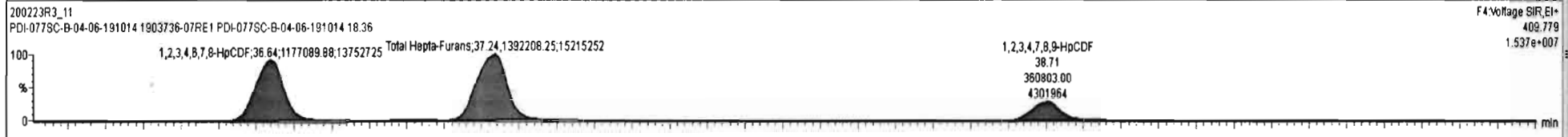
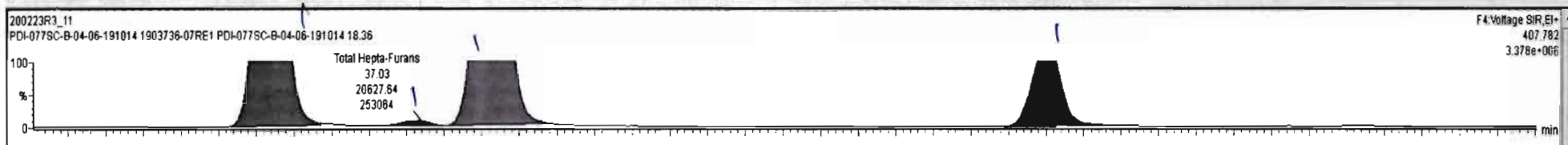


TargetLynx.XS - 200223R3-11.qtd - (Chromatogram)

File Edit View Display Processing Window Help

#	Name	Resp	RA	n/y	R/R	wtAcd	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.164	27.09		0.000		NO	50.73	0.0258	50.84	
45	Total Penta-Furans				0.9074	10.164	29.27		0.000		NO	817.0	0.216	817.0	
46	Total Hexa-Furans				0.8962	10.164	33.56		0.000		NO	1129	0.325	1129	
47	Total Hepta-Furans				0.8511	10.164	37.83		0.000		NO	941.8	0.965	941.8	

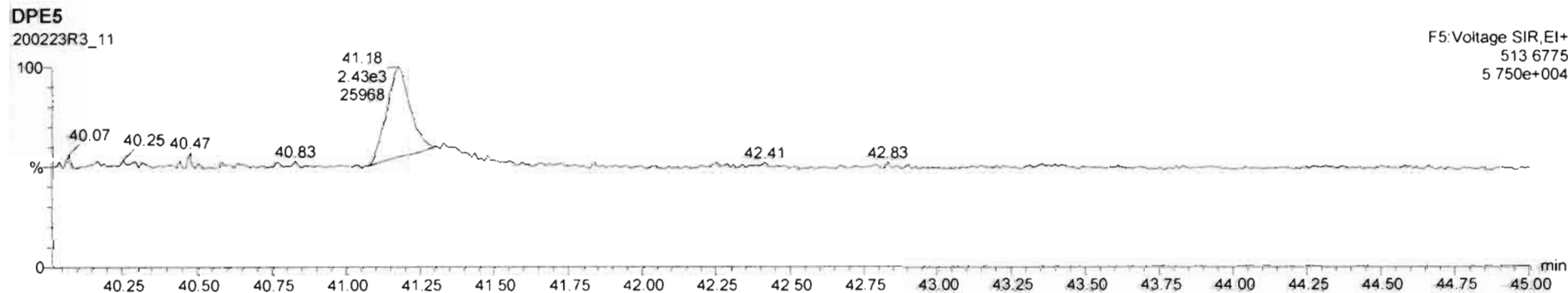
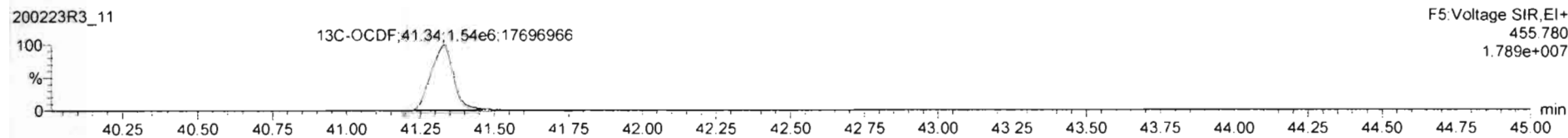
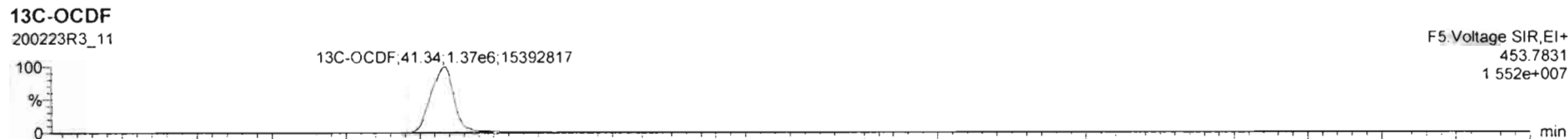
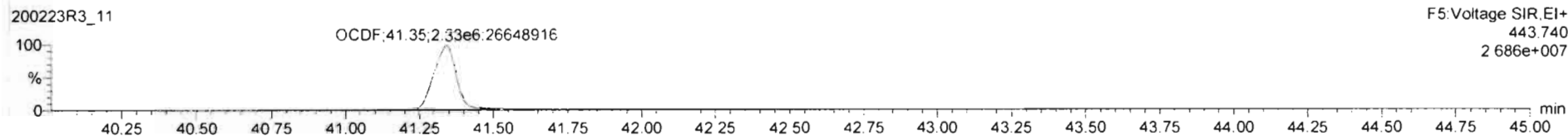
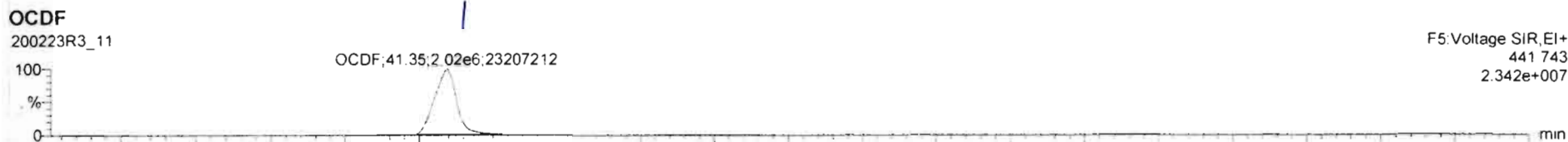
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	15 1,2,3,4,6,7,8-HpCDF	36.67	36.64	1.181e6	1.177e6	1.040	1.00	NO	346.39	346.39
2	47 Total Hepta-Furans	37.83	37.03	2.063e4	2.136e4	1.040	0.97	NO	6.9933	6.9933
3	47 Total Hepta-Furans	37.83	37.24	1.413e6	1.392e6	1.040	1.01	NO	487.16	487.16
4	16 1,2,3,4,7,8,9-HpCDF	38.69	38.71	3.656e5	3.608e5	1.040	1.01	NO	121.30	121.30



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

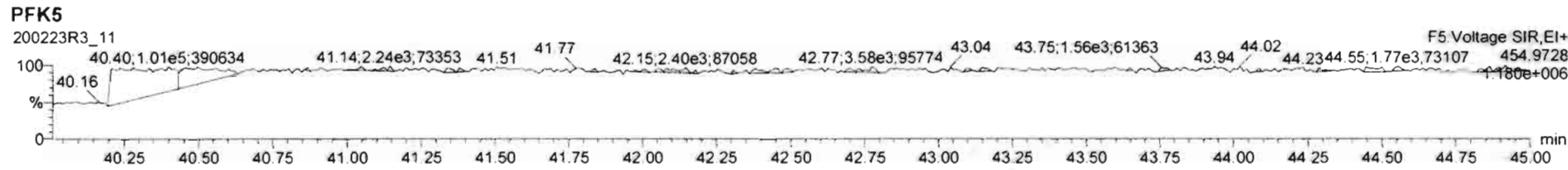
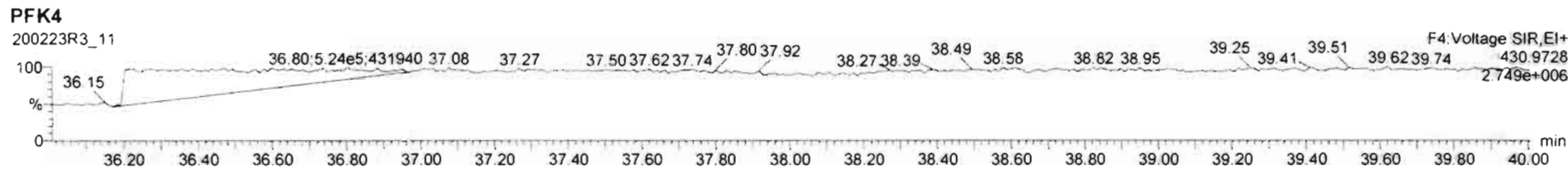
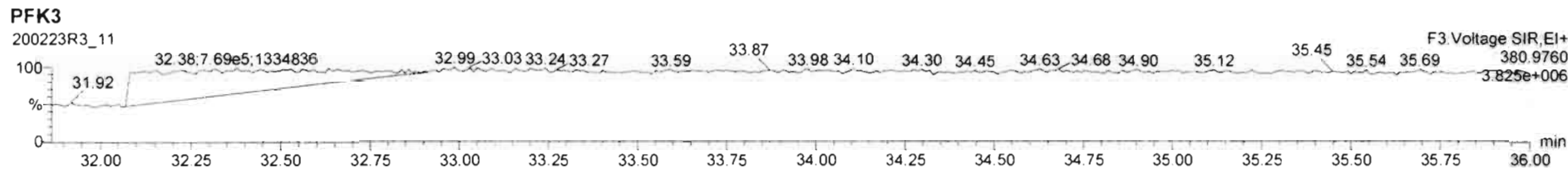
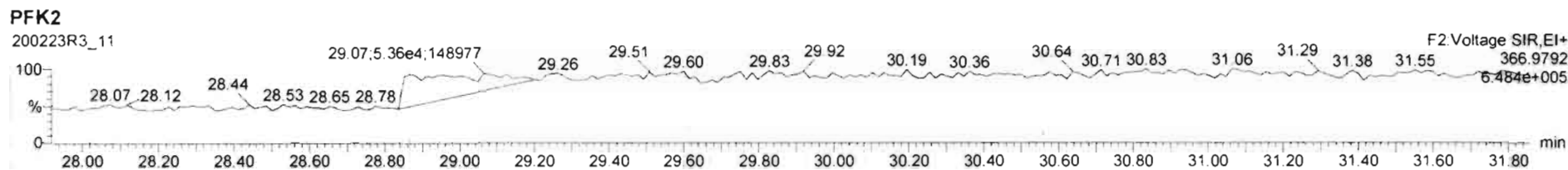
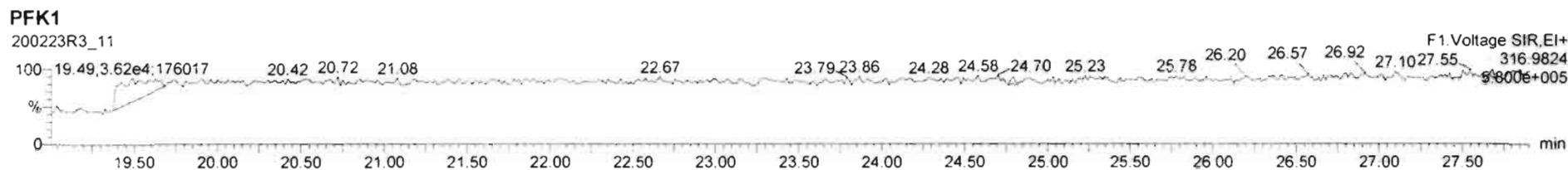
Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_11, Date: 24-Feb-2020, Time: 11:29:19, ID: 1903736-07RE1 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014



Dataset: U:\VG12.PRO\Results\200224R1\200224R1-10.qld

Last Altered: Tuesday, February 25, 2020 08:35:27 Pacific Standard Time

Printed: Monday, March 02, 2020 14:45:33 Pacific Standard Time

dy 03-02-2020

3/11/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200224R1_10, Date: 25-Feb-2020, Time: 00:09:04, ID: 1903736-07RE1@2X PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

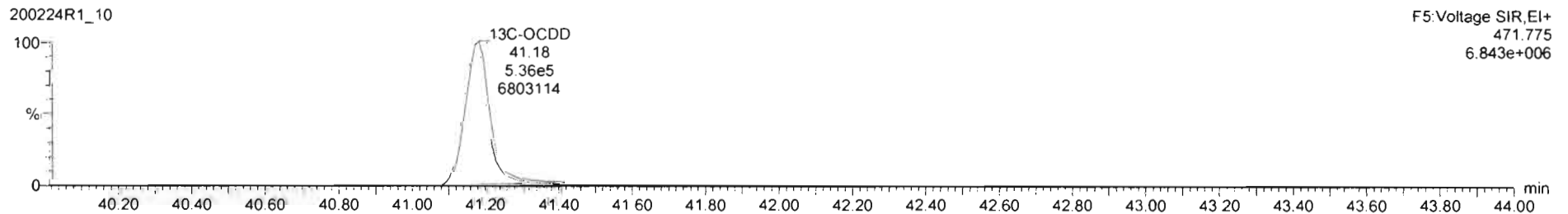
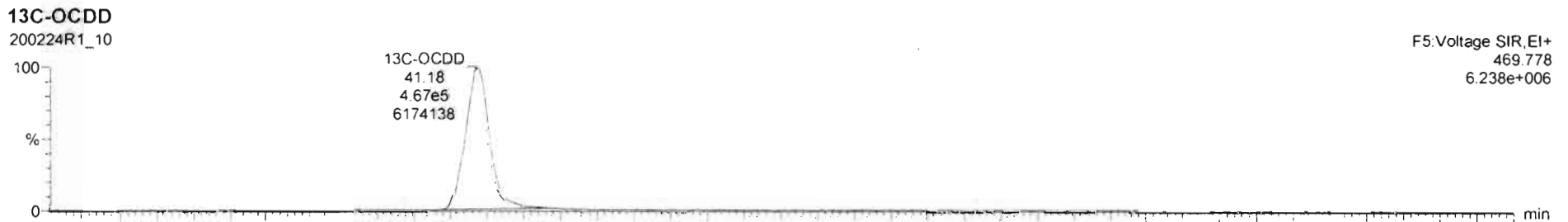
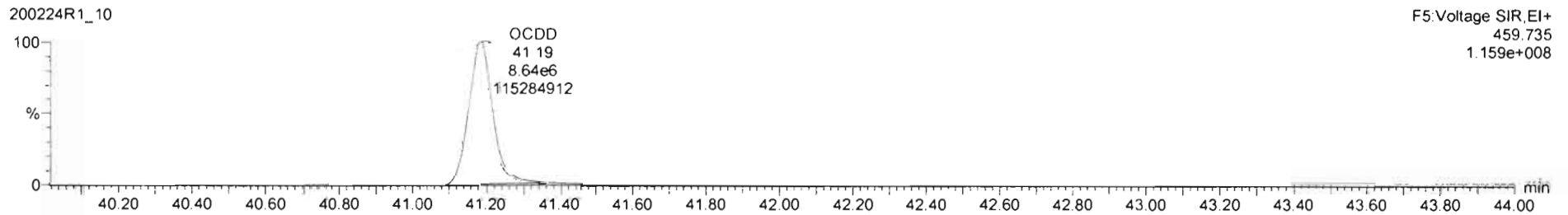
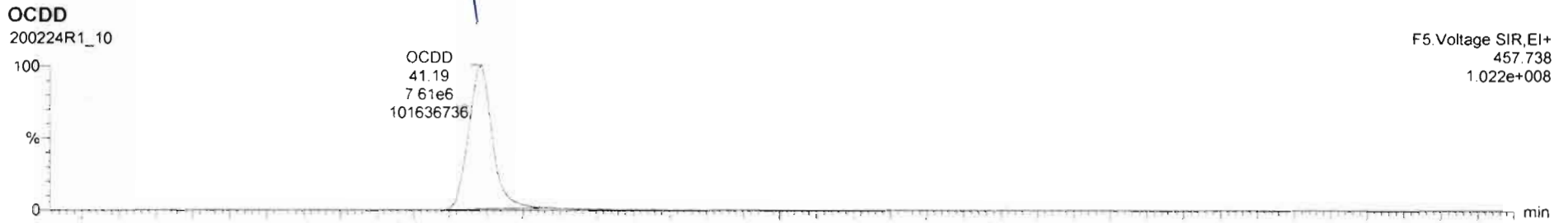
#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	16245968...	0.880	NO	0.975	10.164	41.18	41.19	1.00	1.00	NO	6540		1.24	6540
2	24 13C-OCDD	1003202.0...	0.872	NO	0.707	10.164	41.08	41.18	1.22	1.22	NO	295.3	75.0	0.355	
3	38 13C-1,2,3,4,6,9-HxCDF	946096.188	0.516	NO	1.00	10.164	33.71	33.73	1.00	1.00	NO	196.8	100	0.387	

Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_10, Date: 25-Feb-2020, Time: 00:09:04, ID: 1903736-07RE1@2X PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

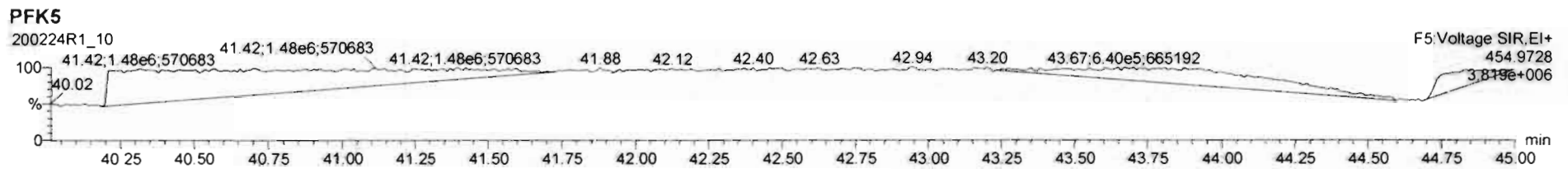
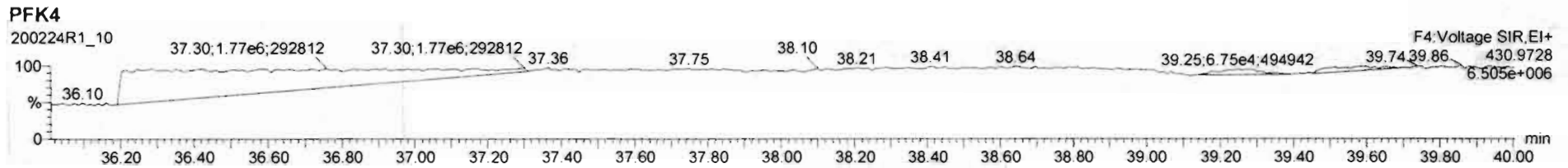
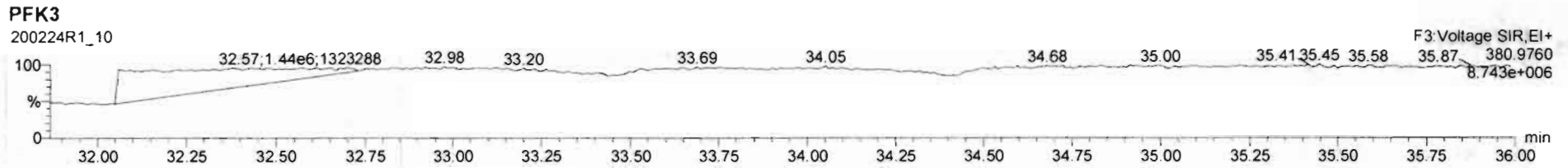
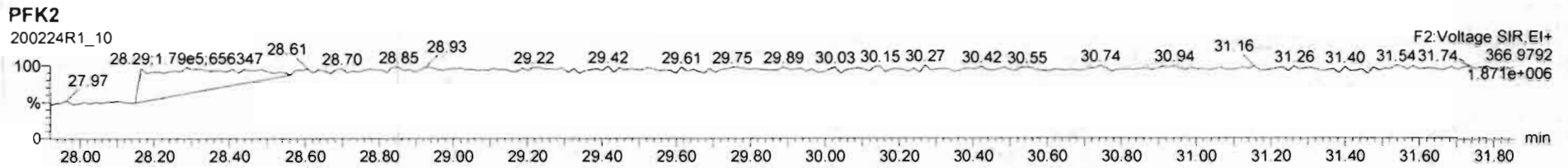
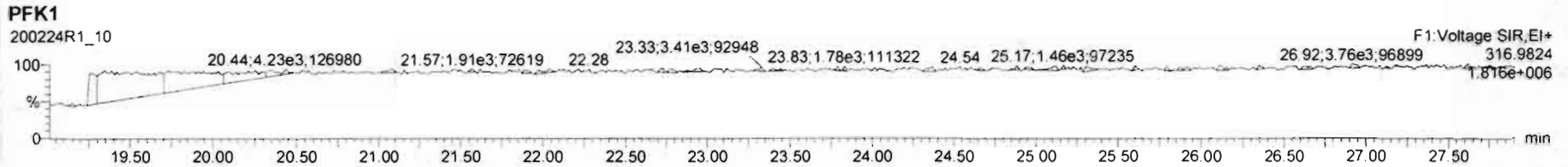


Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_10, Date: 25-Feb-2020, Time: 00:09:04, ID: 1903736-07RE1@2X PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014



Dataset: U:\VG12.PRO\Results\200223R3\200223R3-12.qld

Last Altered: Monday, March 16, 2020 09:06:00 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:09:02 Pacific Daylight Time

dy 03-16-2020
3/17/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

#	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	25233.129	0.708	NO	0.988	10.200	25.75	25.74	1.00	1.00	NO	1.850		0.0479	1.850
2	2 1,2,3,7,8-PeCDD	28391.588	0.628	NO	0.972	10.200	30.83	30.82	1.00	1.00	NO	2.369		0.0587	2.369
3	3 1,2,3,4,7,8-HxCDD	21304.848	1.240	NO	1.07	10.200	34.19	34.20	1.00	1.00	NO	1.981		0.183	1.981
4	4 1,2,3,6,7,8-HxCDD	131659.645	1.246	NO	0.921	10.200	34.28	34.30	1.00	1.00	NO	12.08		0.185	12.08
5	5 1,2,3,7,8,9-HxCDD	51427.660	1.279	NO	0.918	10.200	34.60	34.56	1.00	1.00	NO	5.012		0.216	5.012
6	6 1,2,3,4,6,7,8-HpCDD	2947120.6...	1.024	NO	0.923	10.200	38.08	38.08	1.00	1.00	NO	334.0		0.856	334.0
7	7 OCDD	26578719....	0.886	NO	0.975	10.200	41.17	41.18	1.00	1.00	NO	3576		0.536	3576
8	8 2,3,7,8-TCDF	3081418.2...	0.776	NO	0.802	10.200	24.82	24.81	1.00	1.00	NO	235.2	(225.9)	0.136	235.2
9	9 1,2,3,7,8-PeCDF	6558780.5...	1.547	NO	0.907	10.200	29.51	29.52	1.00	1.00	NO	425.7		0.270	425.7
10	10 2,3,4,7,8-PeCDF	2352444.8...	1.540	NO	0.952	10.200	30.51	30.51	1.00	1.00	NO	155.6		0.259	155.6
11	11 1,2,3,4,7,8-HxCDF	10178598....	1.205	NO	0.862	10.200	33.33	33.34	1.00	1.00	NO	928.9		0.286	928.9
12	12 1,2,3,6,7,8-HxCDF	2476423.3...	1.209	NO	0.841	10.200	33.45	33.45	1.00	1.00	NO	211.8		0.298	211.8
13	13 2,3,4,6,7,8-HxCDF	523631.188	1.205	NO	0.898	10.200	34.04	34.03	1.00	1.00	NO	46.33		0.314	46.33
14	14 1,2,3,7,8,9-HxCDF	413259.968	1.135	NO	0.858	10.200	34.89	34.94	1.00	1.00	NO	43.34		0.435	43.34
15	15 1,2,3,4,6,7,8-HpCDF	1766296.3...	1.010	NO	0.851	10.200	36.68	36.65	1.00	1.00	NO	209.9		0.435	209.9
16	16 1,2,3,4,7,8,9-HpCDF	899835.407	1.014	NO	0.980	10.200	38.71	38.72	1.00	1.00	NO	118.7		0.463	118.7
17	17 OCDF	2542211.6...	0.869	NO	0.806	10.200	41.35	41.36	1.00	1.00	NO	333.8		0.186	333.8
18	18 13C-2,3,7,8-TCDD	2707422.1...	0.785	NO	1.20	10.200	25.71	25.72	1.03	1.03	NO	175.7	89.6	0.0926	
19	19 13C-1,2,3,7,8-PeCDD	2417490.6...	0.633	NO	0.967	10.200	30.45	30.80	1.22	1.23	NO	194.5	99.2	0.163	
20	20 13C-1,2,3,4,7,8-HxCDD	1969208.6...	1.276	NO	0.874	10.200	34.18	34.18	1.01	1.01	NO	179.6	91.6	0.249	
21	21 13C-1,2,3,6,7,8-HxCDD	2320791.0...	1.273	NO	1.05	10.200	34.28	34.28	1.02	1.02	NO	176.9	90.2	0.208	
22	22 13C-1,2,3,7,8,9-HxCDD	2191170.4...	1.243	NO	0.974	10.200	34.59	34.56	1.03	1.03	NO	179.2	91.4	0.224	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1874422.0...	1.051	NO	0.747	10.200	38.16	38.07	1.13	1.13	NO	199.9	102	0.290	
24	24 13C-OCDD	2990936.1...	0.898	NO	0.707	10.200	41.06	41.17	1.22	1.22	NO	337.4	86.0	0.233	
25	25 13C-2,3,7,8-TCDF	3203002.2...	0.774	NO	1.07	10.200	24.89	24.79	0.99	0.99	NO	166.2	84.8	0.139	
26	26 13C-1,2,3,7,8-PeCDF	3329445.1...	1.584	NO	1.00	10.200	29.47	29.49	1.18	1.18	NO	183.7	93.7	0.275	
27	27 13C-2,3,4,7,8-PeCDF	3115414.3...	1.630	NO	0.962	10.200	30.44	30.48	1.21	1.22	NO	179.1	91.3	0.286	
28	28 13C-1,2,3,4,7,8-HxCDF	2491867.3...	0.513	NO	1.05	10.200	33.31	33.33	0.99	0.99	NO	189.3	96.5	0.267	
29	29 13C-1,2,3,6,7,8-HxCDF	2725268.1...	0.521	NO	1.19	10.200	33.41	33.44	0.99	0.99	NO	182.6	93.1	0.235	
30	30 13C-2,3,4,6,7,8-HxCDF	2467428.6...	0.515	NO	1.07	10.200	34.02	34.01	1.01	1.01	NO	184.4	94.1	0.263	
31	31 13C-1,2,3,7,8,9-HxCDF	2179926.3...	0.513	NO	0.922	10.200	34.92	34.89	1.04	1.04	NO	188.4	96.1	0.304	

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-12.qld

Last Altered: Monday, March 16, 2020 09:06:00 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:09:02 Pacific Daylight Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

#	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	1938634.1...	0.444	NO	0.767	10.200	36.68	36.64	1.09	1.09	NO	201.4	103	0.335	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1516828.5...	0.437	NO	0.552	10.200	38.70	38.71	1.15	1.15	NO	218.9	112	0.465	
34	34 13C-OCDF	3707478.2...	0.875	NO	0.789	10.200	41.29	41.35	1.23	1.23	NO	374.3	95.4	0.241	
35	35 37Cl-2,3,7,8-TCDD	990062.563			1.18	10.200	25.74	25.75	1.03	1.03	NO	65.47	83.5	0.0381	
36	36 13C-1,2,3,4-TCDD	2521022.7...	0.788	NO	1.00	10.200	25.11	25.06	1.00	1.00	NO	196.1	100	0.111	
37	37 13C-1,2,3,4-TCDF	3546985.1...	0.791	NO	1.00	10.200	23.37	23.30	1.00	1.00	NO	196.1	100	0.148	
38	38 13C-1,2,3,4,6,9-HxCDF	2460206.3...	0.513	NO	1.00	10.200	33.71	33.71	1.00	1.00	NO	196.1	100	0.280	
39	39 Total Tetra-Dioxins				0.988	10.200	24.62		0.00		NO	18.63		0.0479	18.90
40	40 Total Penta-Dioxins				0.972	10.200	29.96		0.00		NO	23.74		0.0587	24.41
41	41 Total Hexa-Dioxins				0.921	10.200	33.63		0.00		NO	135.2		0.203	138.4
42	42 Total Hepta-Dioxins				0.923	10.200	37.64		0.00		NO	876.8		0.856	876.8
43	43 Total Tetra-Furans				0.802	10.200	23.61		0.00		NO	754.3		0.136	818.3
44	44 1st Func. Penta-Furans				0.907	10.200	27.09		0.00		NO	66.41		0.0278	66.41
45	45 Total Penta-Furans				0.907	10.200	29.27		0.00		NO	1060		0.271	1134
46	46 Total Hexa-Furans				0.898	10.200	33.56		0.00		NO	1482		0.317	1554
47	47 Total Hepta-Furans				0.851	10.200	37.83		0.00		NO	727.5		0.479	727.5

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-12.qld

Last Altered: Monday, March 16, 2020 09:06:00 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:09:25 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	2.43e4	2.71e6	0.778	NO	24.62	25.47	1.784	1.784
2	39 Total Tetra-Dioxins	1.15e3	2.71e6	0.791	NO	24.62	25.18	0.08403	0.08403
3	39 Total Tetra-Dioxins	4.39e3	2.71e6	0.865	NO	24.62	25.03	0.3218	0.3218
4	39 Total Tetra-Dioxins	5.83e3	2.71e6	0.822	NO	24.62	24.67	0.4273	0.4273
5	39 Total Tetra-Dioxins	2.76e3	2.71e6	0.783	NO	24.62	24.48	0.2020	0.2020
6	39 Total Tetra-Dioxins	4.45e3	2.71e6	0.772	NO	24.62	24.19	0.3264	0.3264
7	39 Total Tetra-Dioxins	1.65e4	2.71e6	0.717	NO	24.62	23.97	1.207	1.207
8	39 Total Tetra-Dioxins	1.42e4	2.71e6	0.809	NO	24.62	23.74	1.043	1.043
9	39 Total Tetra-Dioxins	5.84e3	2.71e6	0.709	NO	24.62	23.46	0.4281	0.4281
10	39 Total Tetra-Dioxins	6.49e3	2.71e6	0.776	NO	24.62	22.55	0.4760	0.4760
11	39 Total Tetra-Dioxins	2.21e4	2.71e6	0.785	NO	24.62	22.02	1.621	1.621
12	39 Total Tetra-Dioxins	1.14e5	2.71e6	0.783	NO	24.62	21.62	8.374	8.374
13	39 Total Tetra-Dioxins	0.00e0	2.71e6	0.923	YES	24.62	26.74	0.0000	0.1752
14	39 Total Tetra-Dioxins	0.00e0	2.71e6	1.061	YES	24.62	26.23	0.0000	0.09299
15	39 Total Tetra-Dioxins	6.70e3	2.71e6	0.798	NO	24.62	26.08	0.4908	0.4908
16	1 2,3,7,8-TCDD	2.52e4	2.71e6	0.708	NO	25.75	25.74	1.850	1.850

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-12.qld

Last Altered: Monday, March 16, 2020 09:06:00 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:09:25 Pacific Daylight Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	2.42e6	0.525	YES	29.96	31.22	0.0000	0.6781
2	40 Total Penta-Dioxins	6.89e3	2.42e6	0.689	NO	29.96	30.90	0.5747	0.5747
3	2 1,2,3,7,8-PeCDD	2.84e4	2.42e6	0.628	NO	30.83	30.82	2.369	2.369
4	40 Total Penta-Dioxins	6.30e3	2.42e6	0.624	NO	29.96	30.38	0.5252	0.5252
5	40 Total Penta-Dioxins	3.43e4	2.42e6	0.695	NO	29.96	30.04	2.864	2.864
6	40 Total Penta-Dioxins	1.74e4	2.42e6	0.663	NO	29.96	29.83	1.453	1.453
7	40 Total Penta-Dioxins	2.49e4	2.42e6	0.602	NO	29.96	29.74	2.081	2.081
8	40 Total Penta-Dioxins	6.20e4	2.42e6	0.670	NO	29.96	29.57	5.176	5.176
9	40 Total Penta-Dioxins	1.88e4	2.42e6	0.672	NO	29.96	29.05	1.567	1.567
10	40 Total Penta-Dioxins	8.54e4	2.42e6	0.649	NO	29.96	28.58	7.126	7.126

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	1.93e4	0.00e0	1.225	NO	33.63	34.48	1.899	1.899
2	4 1,2,3,6,7,8-HxCDD	1.32e5	2.32e6	1.246	NO	34.28	34.30	12.08	12.08
3	3 1,2,3,4,7,8-HxCDD	2.13e4	1.97e6	1.240	NO	34.19	34.20	1.981	1.981
4	41 Total Hexa-Dioxins	0.00e0	0.00e0	0.993	YES	33.63	33.64	0.0000	2.639
5	41 Total Hexa-Dioxins	5.13e5	0.00e0	1.250	NO	33.63	33.53	50.56	50.56
6	41 Total Hexa-Dioxins	6.93e4	0.00e0	1.238	NO	33.63	33.27	6.827	6.827
7	41 Total Hexa-Dioxins	5.77e5	0.00e0	1.231	NO	33.63	32.72	56.85	56.85
8	41 Total Hexa-Dioxins	0.00e0	0.00e0	2.148	YES	33.63	35.20	0.0000	0.5191
9	5 1,2,3,7,8,9-HxCDD	5.14e4	2.19e6	1.279	NO	34.60	34.56	5.012	5.012

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.95e6	1.87e6	1.024	NO	38.08	38.08	334.0	334.0
2	42 Total Hepta-Dioxins	4.79e6	1.87e6	1.023	NO	37.64	37.04	542.8	542.8

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-12.qld

Last Altered: Monday, March 16, 2020 09:06:00 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:09:25 Pacific Daylight Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	2.62e4	3.20e6	0.702	NO	23.61	24.36	2.000	2.000
2	43 Total Tetra-Furans	1.52e5	3.20e6	0.730	NO	23.61	24.13	11.64	11.64
3	43 Total Tetra-Furans	3.42e6	3.20e6	0.755	NO	23.61	23.83	261.1	261.1
4	43 Total Tetra-Furans	5.26e5	3.20e6	0.756	NO	23.61	23.30	40.14	40.14
5	43 Total Tetra-Furans	1.54e5	3.20e6	0.733	NO	23.61	23.19	11.77	11.77
6	43 Total Tetra-Furans	1.78e4	3.20e6	0.723	NO	23.61	23.03	1.355	1.355
7	43 Total Tetra-Furans	3.47e4	3.20e6	0.792	NO	23.61	22.88	2.646	2.646
8	43 Total Tetra-Furans	1.73e5	3.20e6	0.765	NO	23.61	22.41	13.23	13.23
9	43 Total Tetra-Furans	2.45e4	3.20e6	0.661	NO	23.61	22.22	1.867	1.867
10	43 Total Tetra-Furans	2.97e5	3.20e6	0.764	NO	23.61	22.05	22.70	22.70
11	43 Total Tetra-Furans	8.18e5	3.20e6	0.762	NO	23.61	21.59	62.47	62.47
12	43 Total Tetra-Furans	1.68e5	3.20e6	0.753	NO	23.61	21.22	12.82	12.82
13	43 Total Tetra-Furans	6.70e5	3.20e6	0.761	NO	23.61	20.66	51.17	51.17
14	43 Total Tetra-Furans	5.52e4	3.20e6	0.777	NO	23.61	20.08	4.213	4.213
15	43 Total Tetra-Furans	1.60e4	3.20e6	0.769	NO	23.61	19.57	1.219	1.219
16	43 Total Tetra-Furans	0.00e0	3.20e6	0.905	YES	23.61	26.89	0.0000	31.20
17	43 Total Tetra-Furans	3.35e4	3.20e6	0.748	NO	23.61	25.47	2.555	2.555
18	43 Total Tetra-Furans	1.70e5	3.20e6	0.767	NO	23.61	25.20	12.99	12.99
19	8 2,3,7,8-TCDF	3.08e6	3.20e6	0.776	NO	24.82	24.81	235.2	235.2
20	43 Total Tetra-Furans	0.00e0	3.20e6	0.629	YES	23.61	24.70	0.0000	32.85
21	43 Total Tetra-Furans	4.25e4	3.20e6	0.734	NO	23.61	24.58	3.246	3.246

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	9.90e5	0.00e0	1.575	NO	27.09	26.89	66.41	66.41

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-12.qld

Last Altered: Monday, March 16, 2020 09:06:00 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:09:25 Pacific Daylight Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	5.20e4	0.00e0	1.441	NO	29.27	30.41	3.485	3.485
2	45 Total Penta-Furans	2.43e6	0.00e0	1.551	NO	29.27	29.78	163.1	163.1
3	9 1,2,3,7,8-PeCDF	6.56e6	3.33e6	1.547	NO	29.51	29.52	425.7	425.7
4	45 Total Penta-Furans	8.18e5	0.00e0	1.554	NO	29.27	29.32	54.88	54.88
5	45 Total Penta-Furans	3.47e5	0.00e0	1.521	NO	29.27	29.11	23.27	23.27
6	45 Total Penta-Furans	3.21e6	0.00e0	1.557	NO	29.27	28.52	215.0	215.0
7	45 Total Penta-Furans	1.09e5	0.00e0	1.514	NO	29.27	28.36	7.326	7.326
8	45 Total Penta-Furans	1.67e5	0.00e0	1.536	NO	29.27	31.45	11.18	11.18
9	10 2,3,4,7,8-PeCDF	2.35e6	3.12e6	1.540	NO	30.51	30.51	155.6	155.6
10	45 Total Penta-Furans	0.00e0	0.00e0	1.567	NO	29.27	30.53	0.0000	73.73
11	45 Total Penta-Furans	1.25e4	0.00e0	1.418	NO	29.27	30.29	0.8375	0.8375

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	12 1,2,3,6,7,8-HxCDF	2.48e6	2.73e6	1.209	NO	33.45	33.45	211.8	211.8
2	11 1,2,3,4,7,8-HxCDF	1.02e7	2.49e6	1.205	NO	33.33	33.34	928.9	928.9
3	46 Total Hexa-Furans	5.92e4	0.00e0	1.112	NO	33.56	33.23	5.242	5.242
4	46 Total Hexa-Furans	1.35e6	0.00e0	1.213	NO	33.56	32.88	119.5	119.5
5	46 Total Hexa-Furans	1.99e4	0.00e0	1.154	NO	33.56	32.70	1.759	1.759
6	46 Total Hexa-Furans	1.15e6	0.00e0	1.201	NO	33.56	32.34	102.1	102.1
7	46 Total Hexa-Furans	2.58e5	0.00e0	1.196	NO	33.56	32.17	22.83	22.83
8	14 1,2,3,7,8,9-HxCDF	4.13e5	2.18e6	1.135	NO	34.89	34.94	43.34	43.34
9	13 2,3,4,6,7,8-HxCDF	5.24e5	2.47e6	1.205	NO	34.04	34.03	46.33	46.33
10	46 Total Hexa-Furans	0.00e0	0.00e0	1.227	NO	33.56	34.95	0.0000	68.13
11	46 Total Hexa-Furans	0.00e0	0.00e0	1.043	YES	33.56	33.73	0.0000	3.971

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-12.qld

Last Altered: Monday, March 16, 2020 09:06:00 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:09:25 Pacific Daylight Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	9.00e5	1.52e6	1.014	NO	38.71	38.72	118.7	118.7
2	47 Total Hepta-Furans	2.96e6	0.00e0	1.010	NO	37.83	37.25	394.7	394.7
3	47 Total Hepta-Furans	3.19e4	0.00e0	0.951	NO	37.83	37.04	4.259	4.259
4	15 1,2,3,4,6,7,8-HpCDF	1.77e6	1.94e6	1.010	NO	36.68	36.65	209.9	209.9

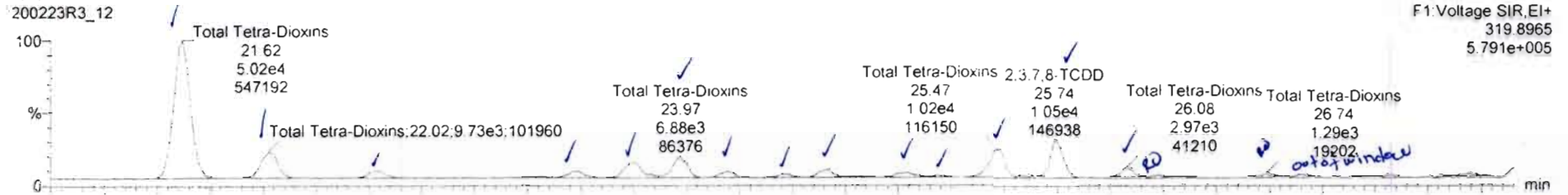
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

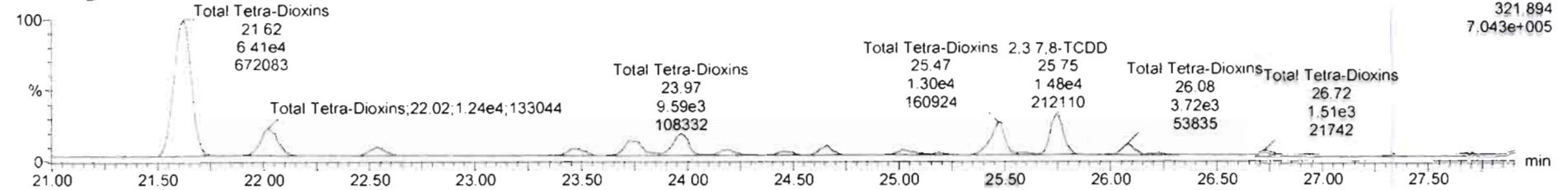
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

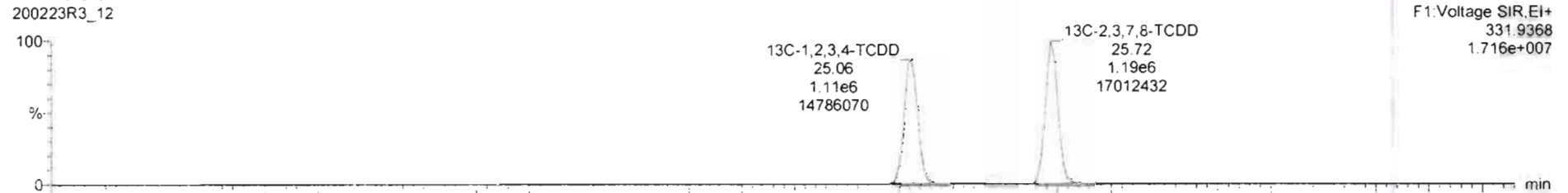
2,3,7,8-TCDD



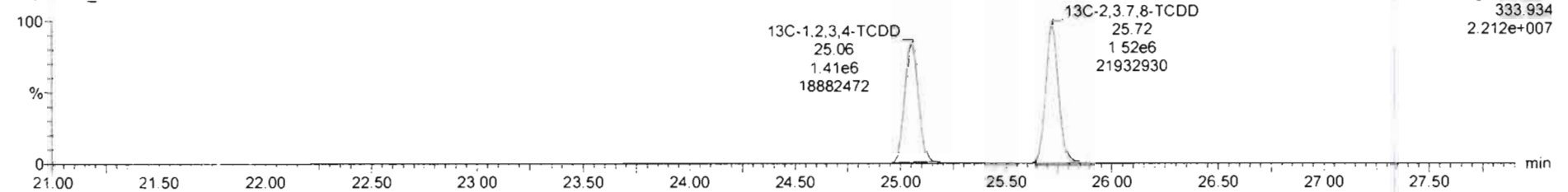
200223R3_12

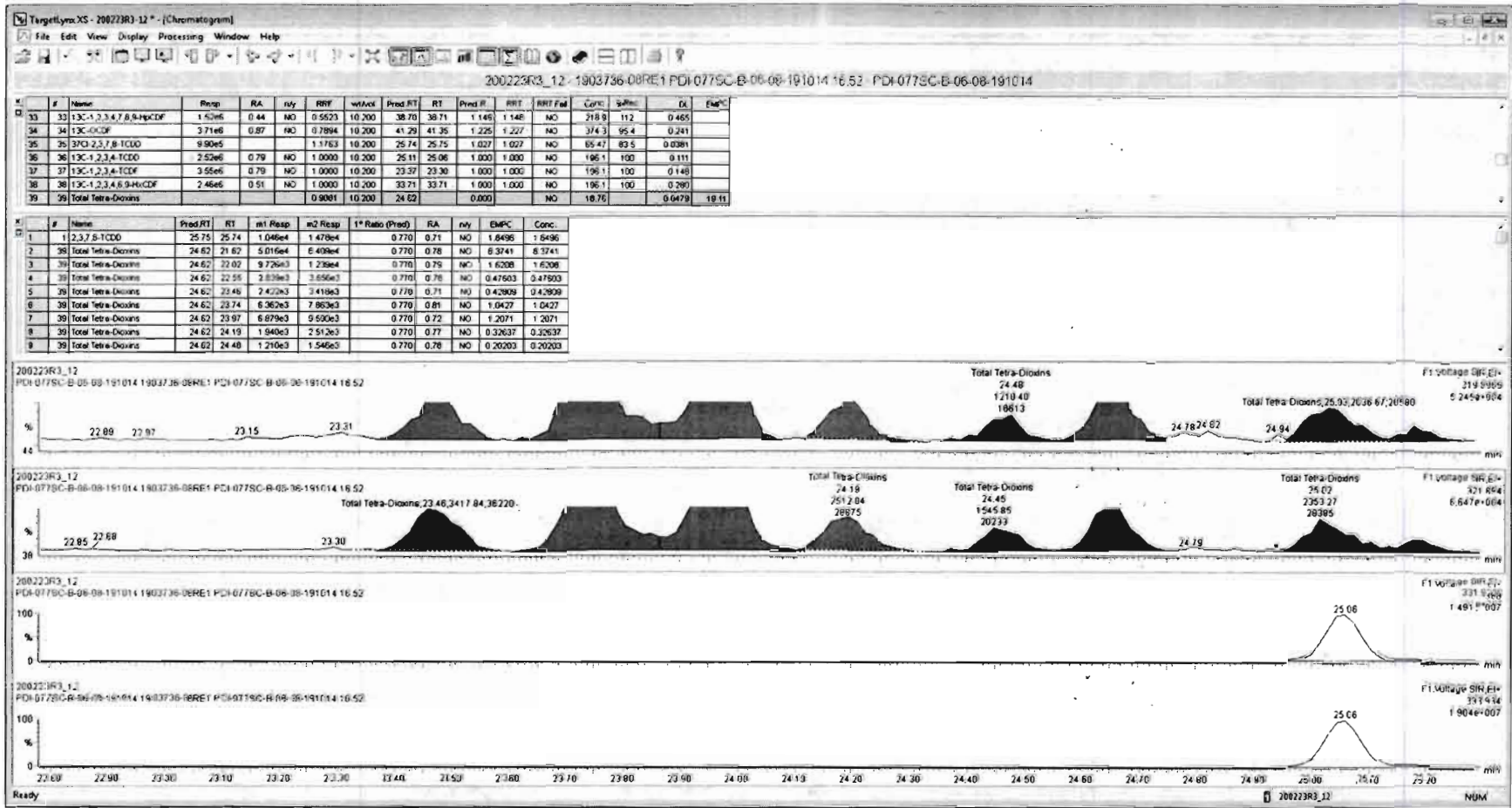


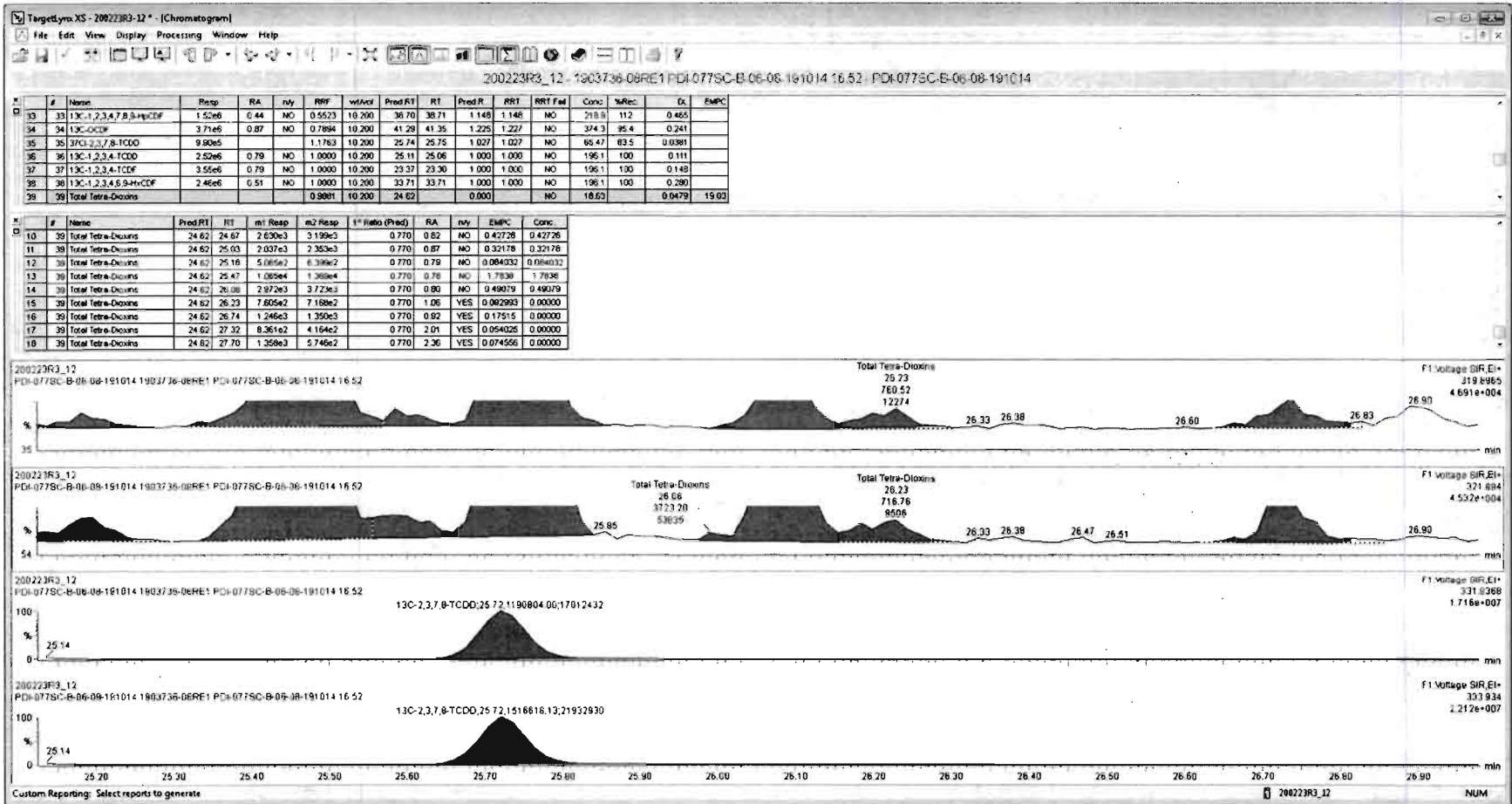
13C-2,3,7,8-TCDD



200223R3_12







Dataset: Untitled

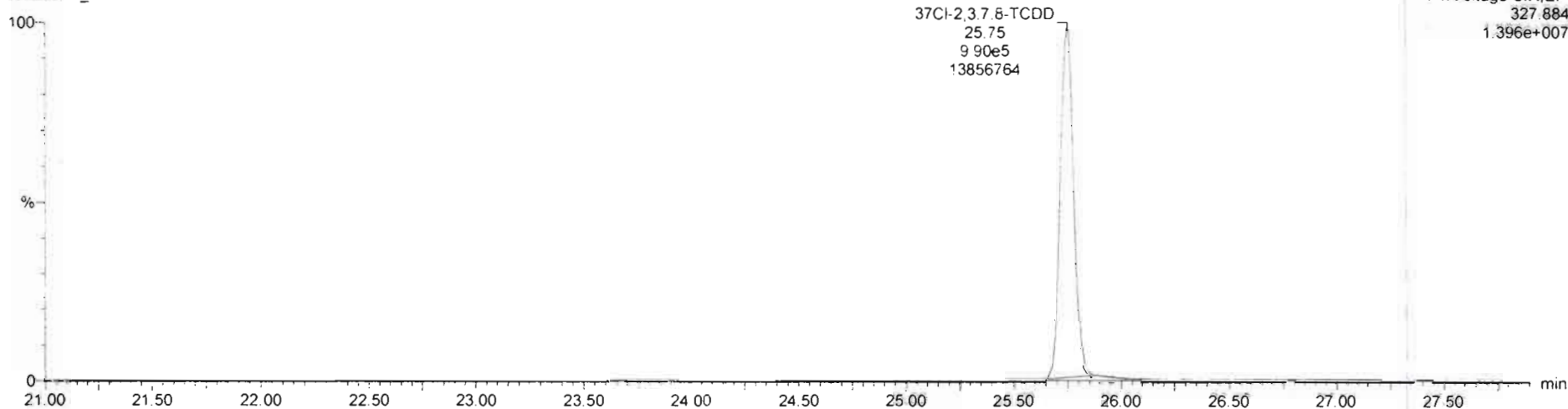
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

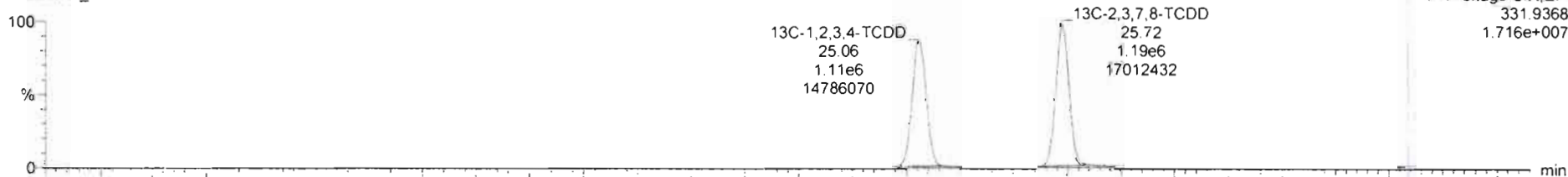
37Cl-2,3,7,8-TCDD

200223R3_12

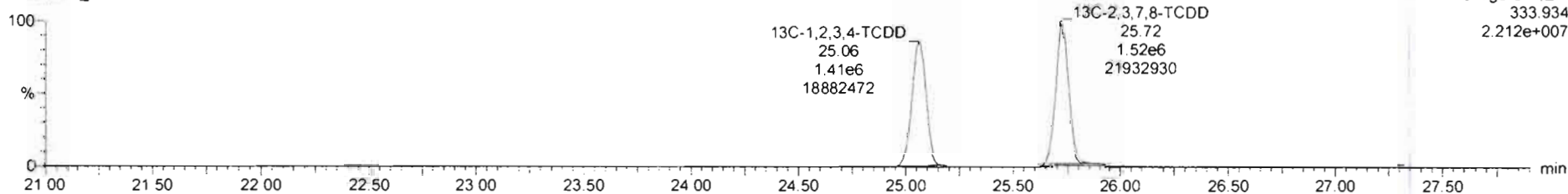


13C-1,2,3,4-TCDD

200223R3_12



200223R3_12



Dataset: Untitled

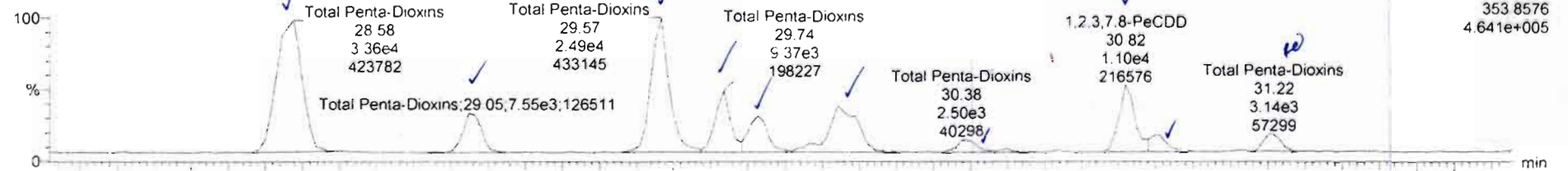
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

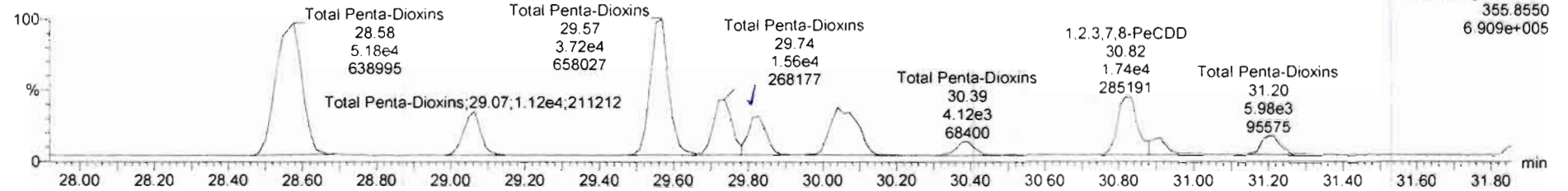
Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

1,2,3,7,8-PeCDD

200223R3_12

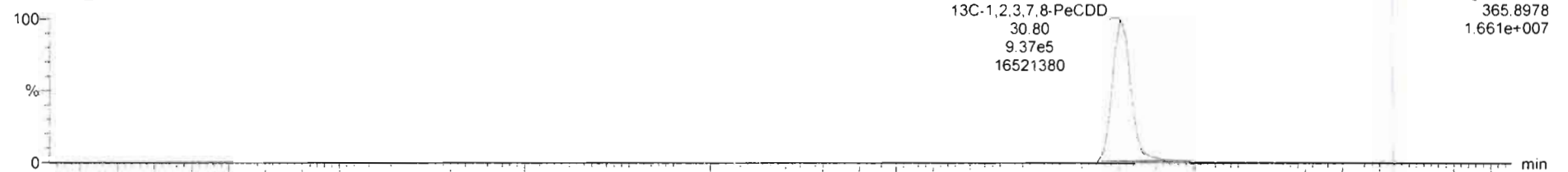


200223R3_12

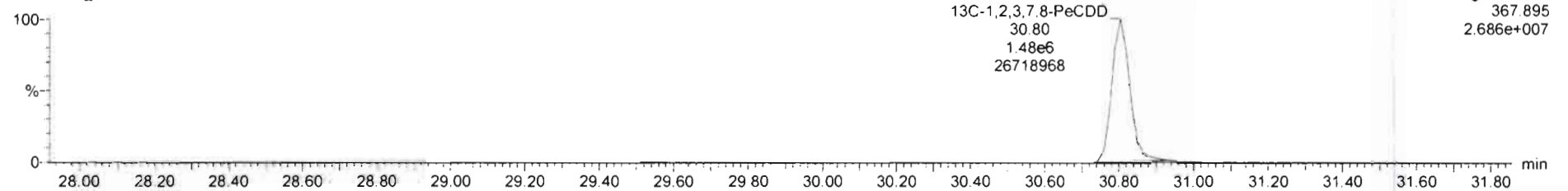


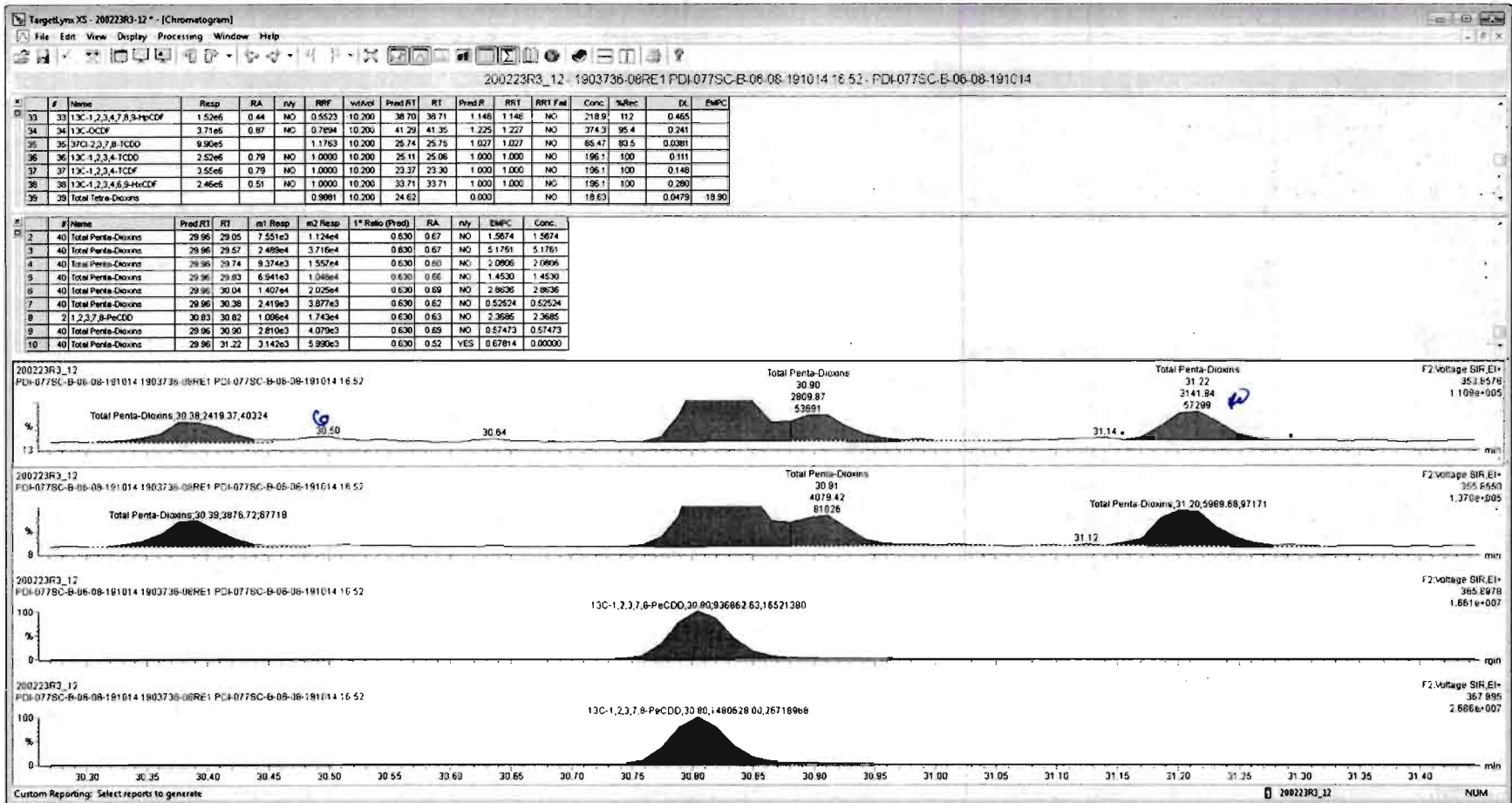
13C-1,2,3,7,8-PeCDD

200223R3_12



200223R3_12





Dataset: Untitled

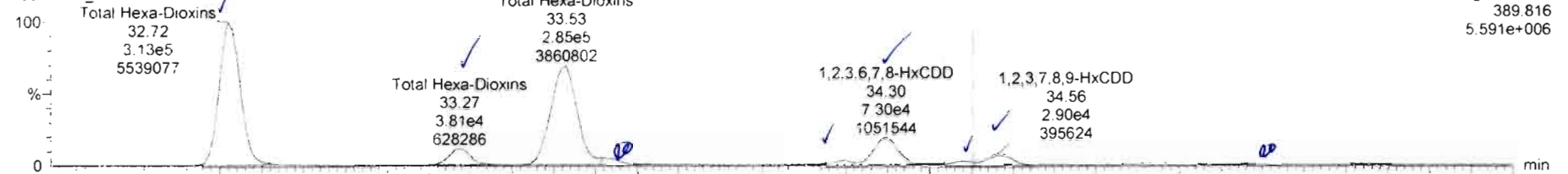
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

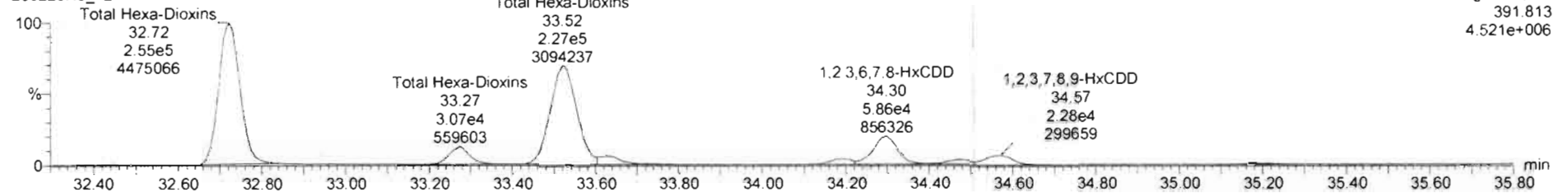
Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

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

200223R3_12

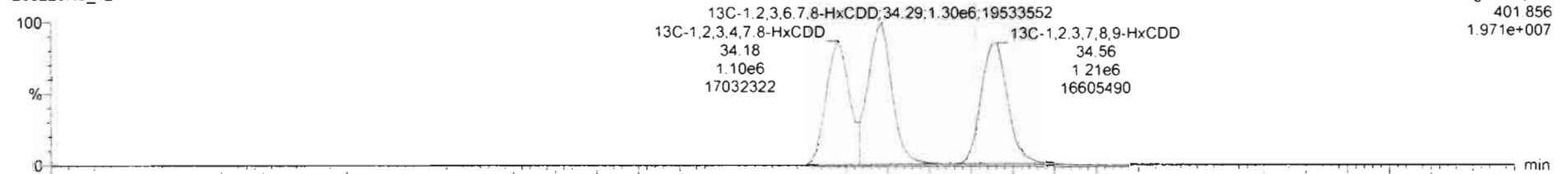


200223R3_12

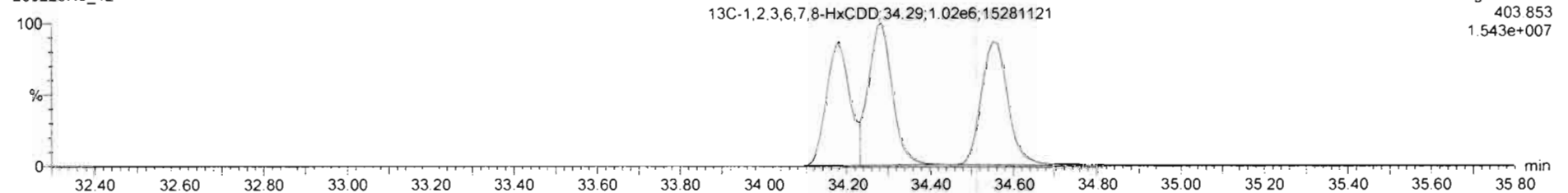


13C-1,2,3,4,7,8-HxCDD

200223R3_12



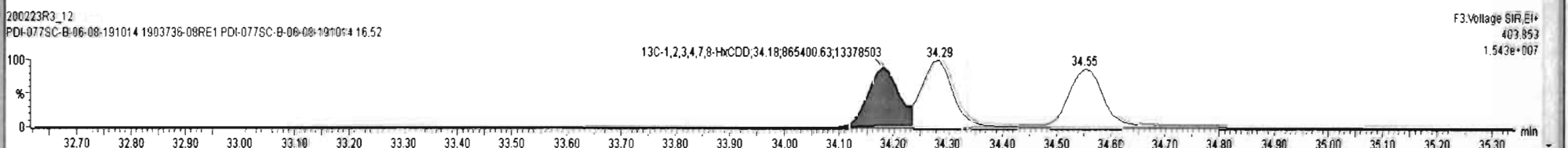
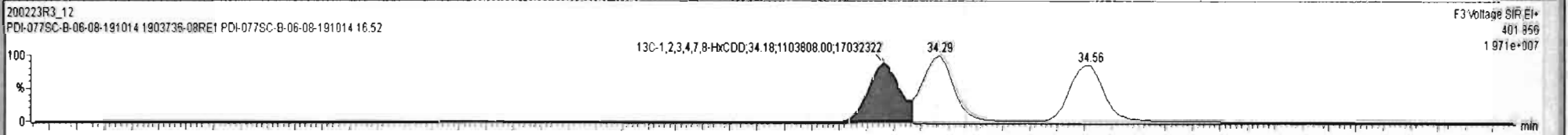
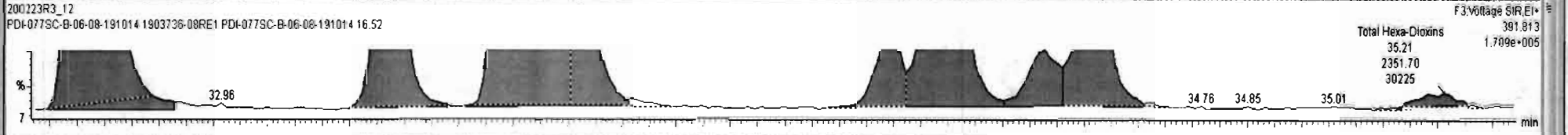
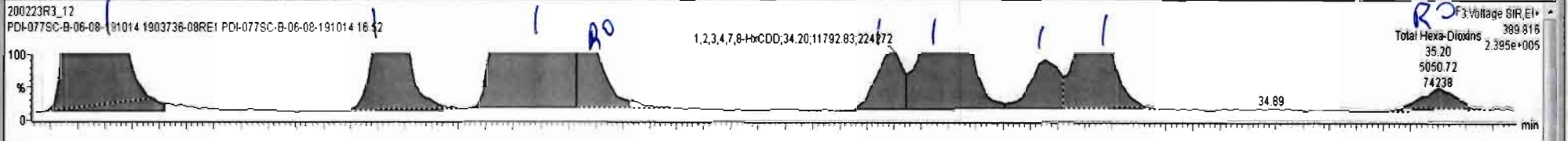
200223R3_12



200223R3_12 - 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52 - PDI-077SC-B-06-08-191014

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	10.200	33.63		0.000		NO	135.2		0.203	138.4

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.72	3.183e5	2.587e5	1.240	1.23	NO	56.855	56.855
2	41 Total Hexa-Dioxins	33.63	33.27	3.832e4	3.096e4	1.240	1.24	NO	6.8267	6.8267
3	41 Total Hexa-Dioxins	33.63	33.53	2.851e5	2.281e5	1.240	1.25	NO	50.562	50.562
4	41 Total Hexa-Dioxins	33.63	33.64	1.482e4	1.493e4	1.240	0.99	YES	2.6368	0.00000
5	3 1,2,3,4,7,8-HxCDD	34.19	34.20	1.179e4	9.512e3	1.240	1.24	NO	1.9812	1.9812
6	4 1,2,3,6,7,8-HxCDD	34.28	34.30	7.305e4	5.861e4	1.240	1.25	NO	12.077	12.077
7	41 Total Hexa-Dioxins	33.63	34.48	1.061e4	8.660e3	1.240	1.22	NO	1.8966	1.8966
8	5 1,2,3,7,8,9-HxCDD	34.60	34.56	2.896e4	2.257e4	1.240	1.26	NO	5.0122	5.0122
9	41 Total Hexa-Dioxins	33.63	35.20	5.051e3	2.352e3	1.240	2.15	YES	0.51907	0.00000



Dataset: Untitled

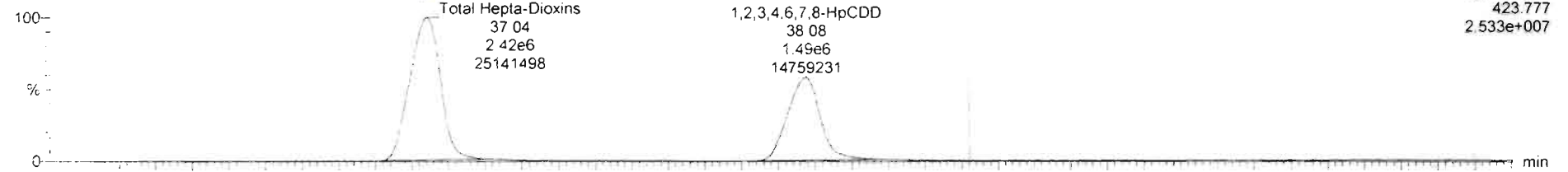
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

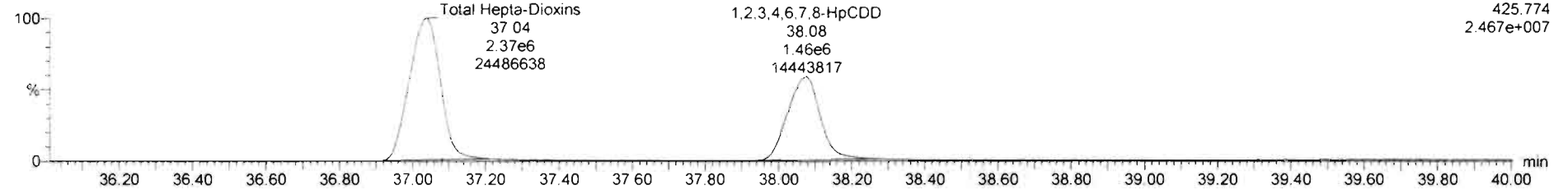
Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

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

200223R3_12

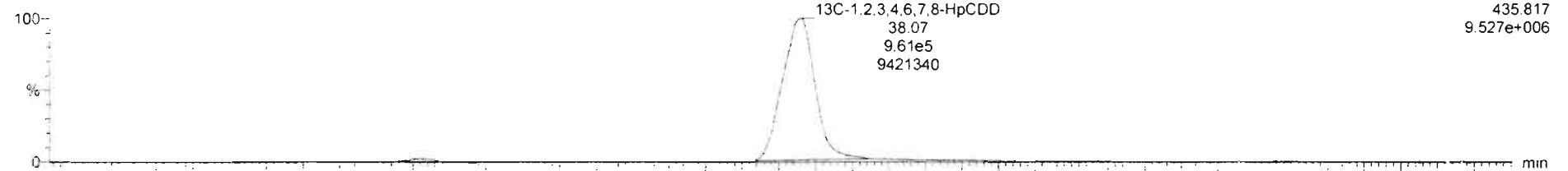


200223R3_12

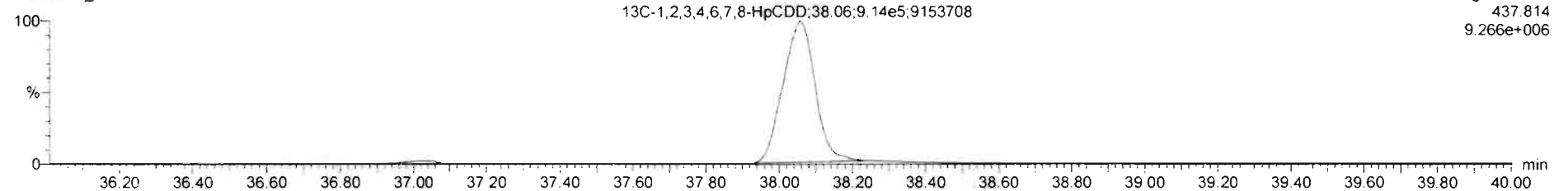


13C-1,2,3,4,6,7,8-HpCDD

200223R3_12



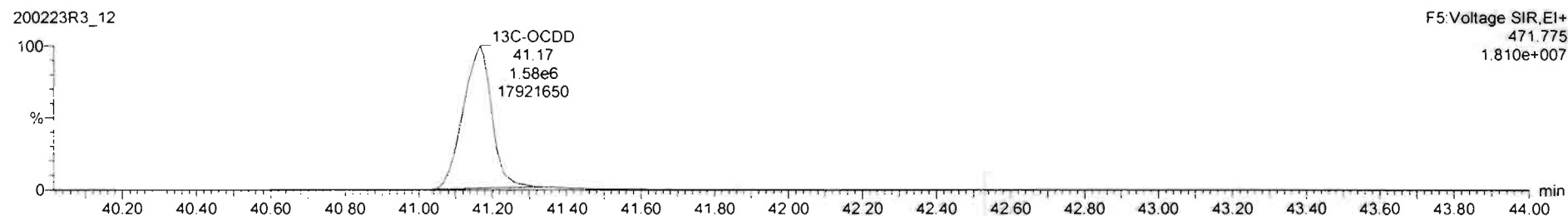
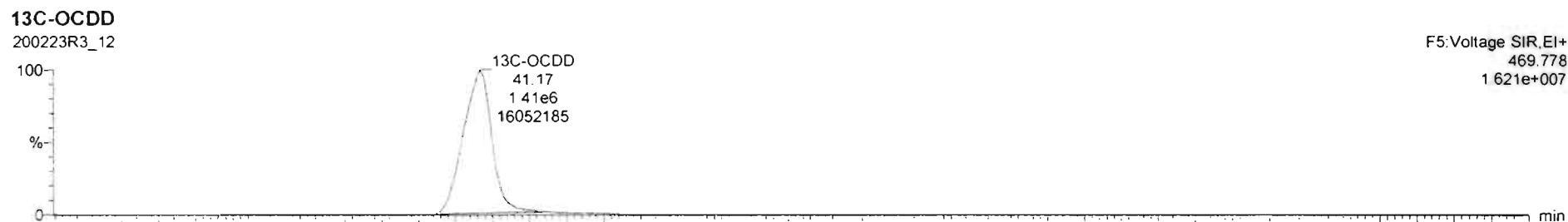
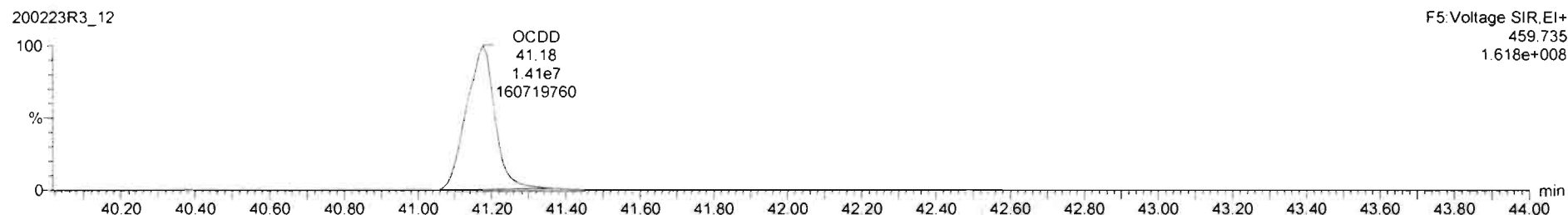
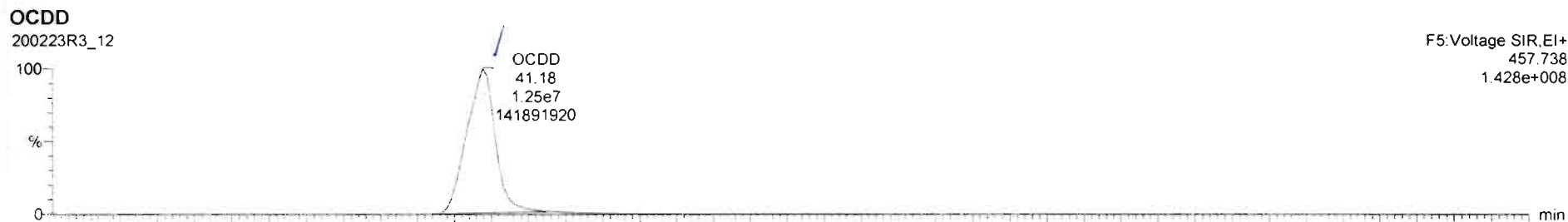
200223R3_12



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014



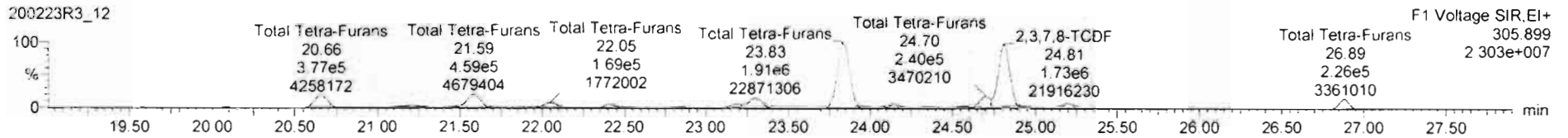
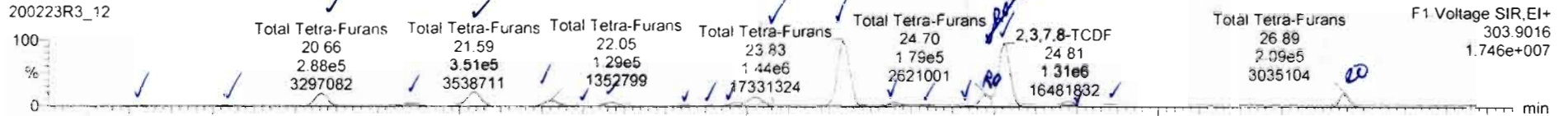
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

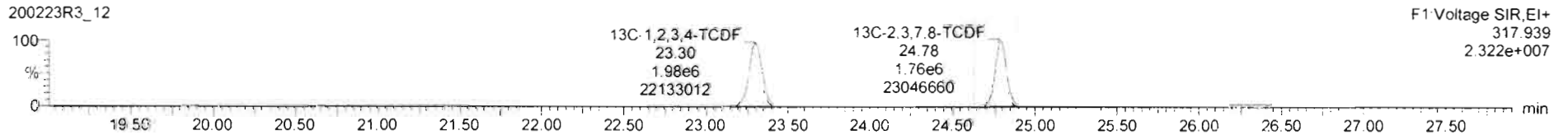
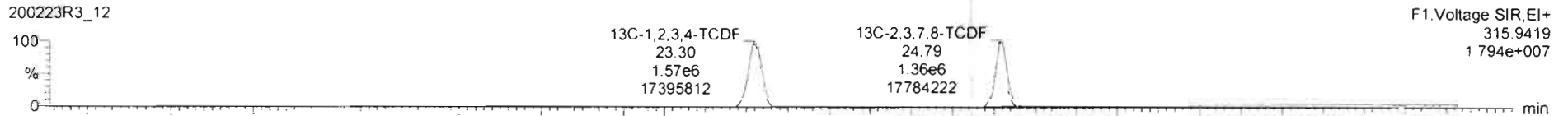
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

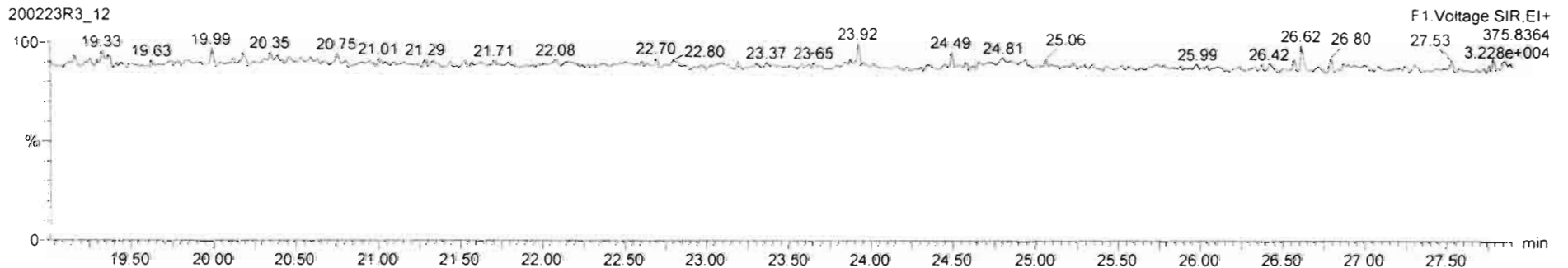
2,3,7,8-TCDF

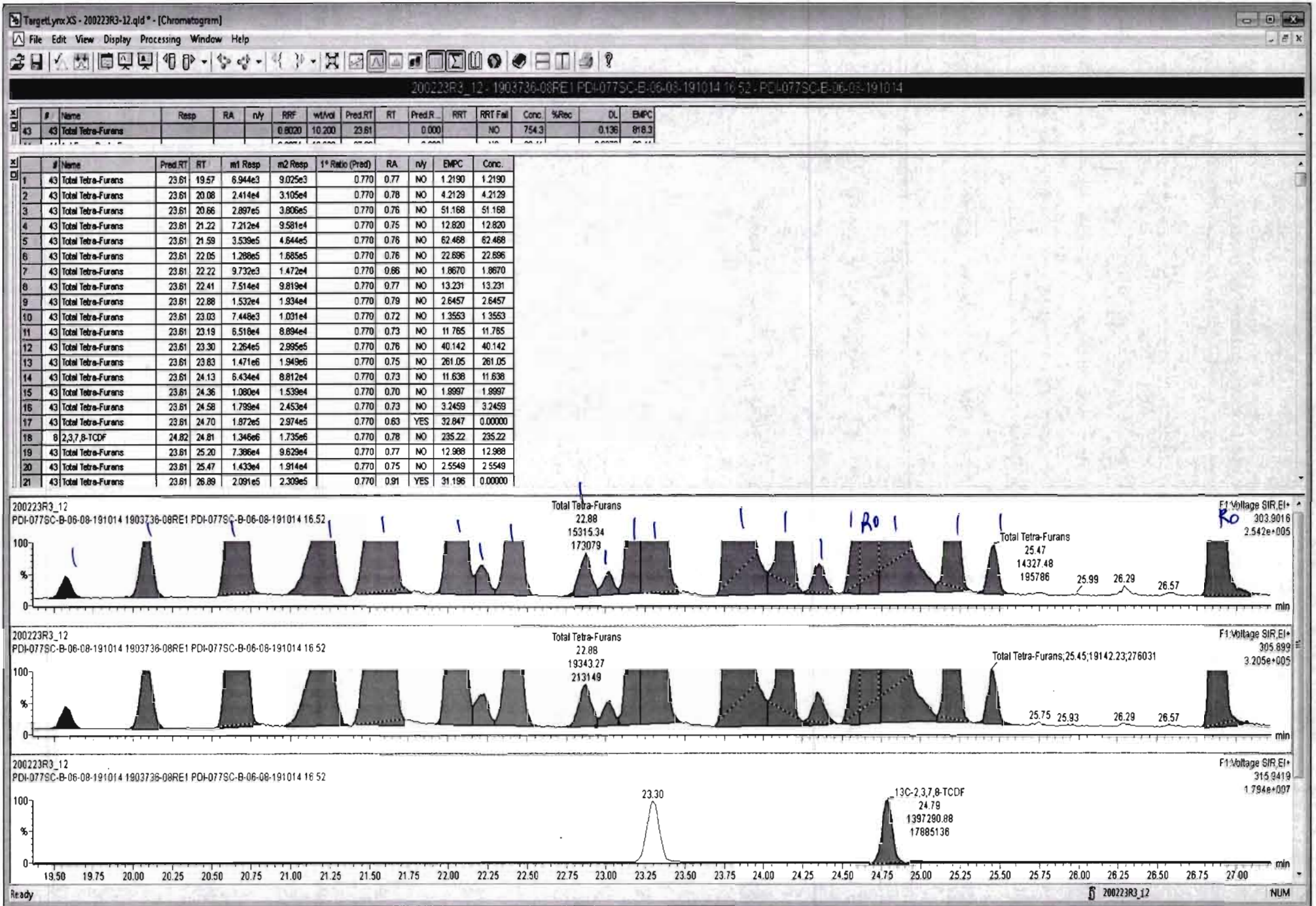


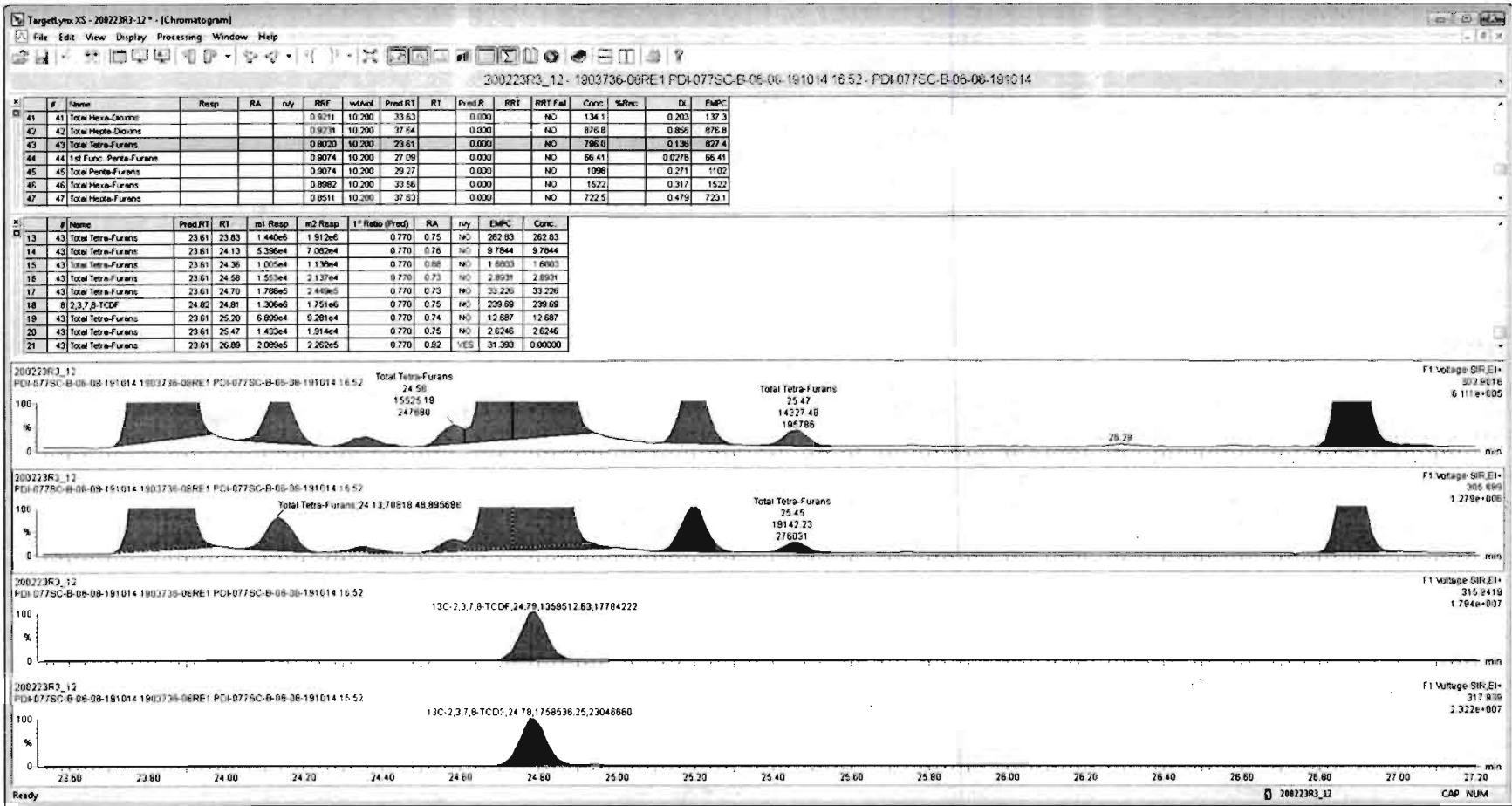
13C-2,3,7,8-TCDF



DPE1







Dataset: Untitled

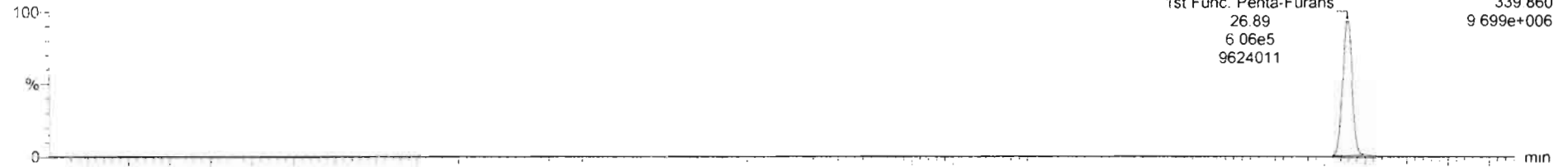
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

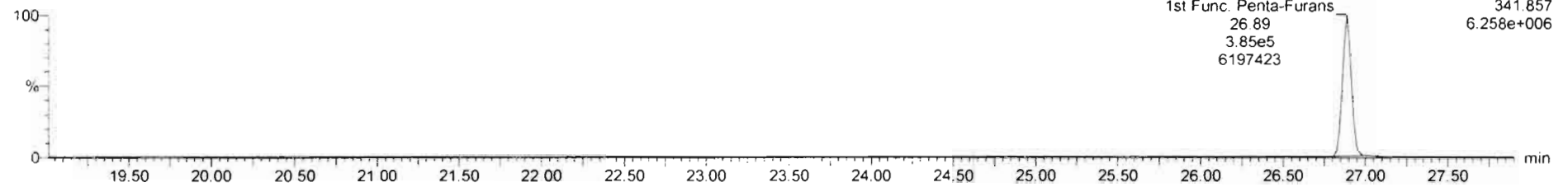
Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

1st Func. Penta-Furans

200223R3_12

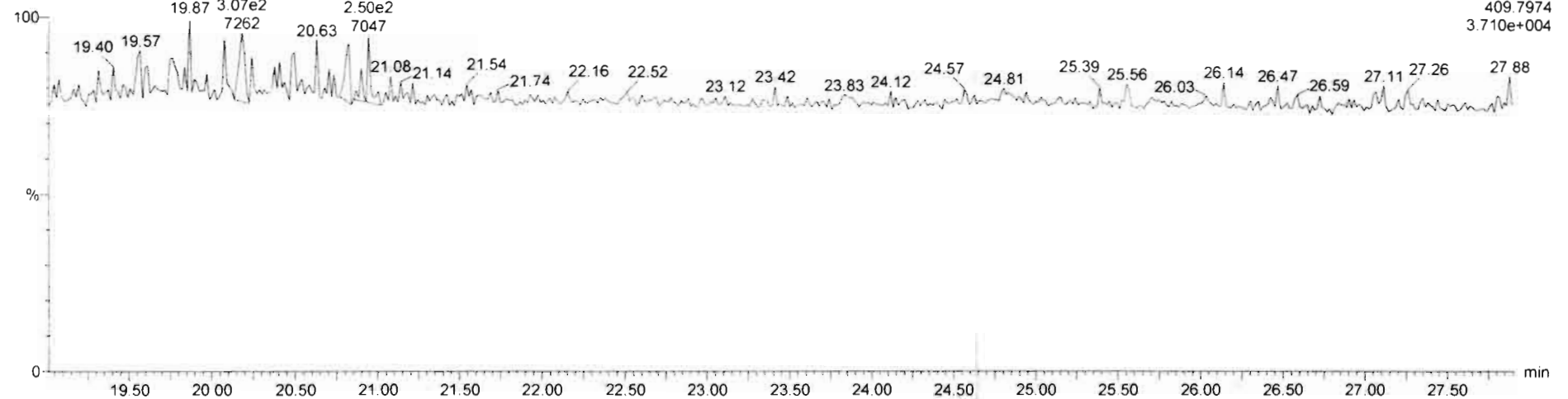


200223R3_12



DPE6

200223R3_12

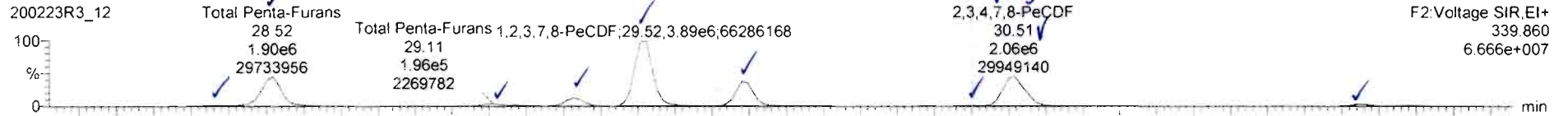


Dataset: Untitled

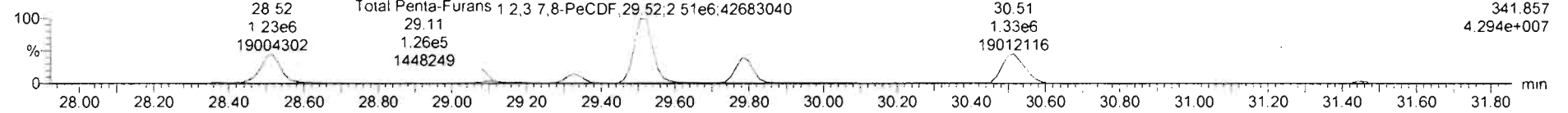
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

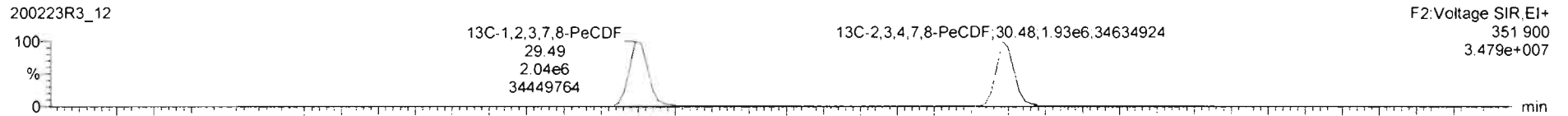
1,2,3,7,8-PeCDF



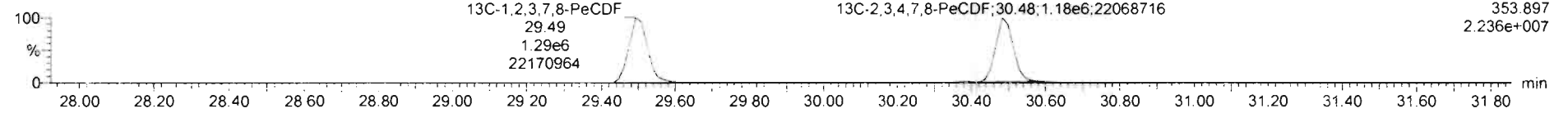
200223R3_12



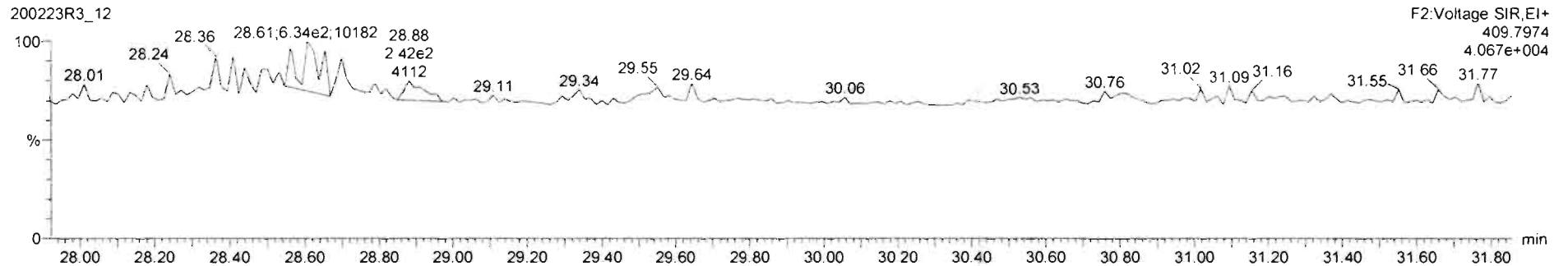
13C-1,2,3,7,8-PeCDF

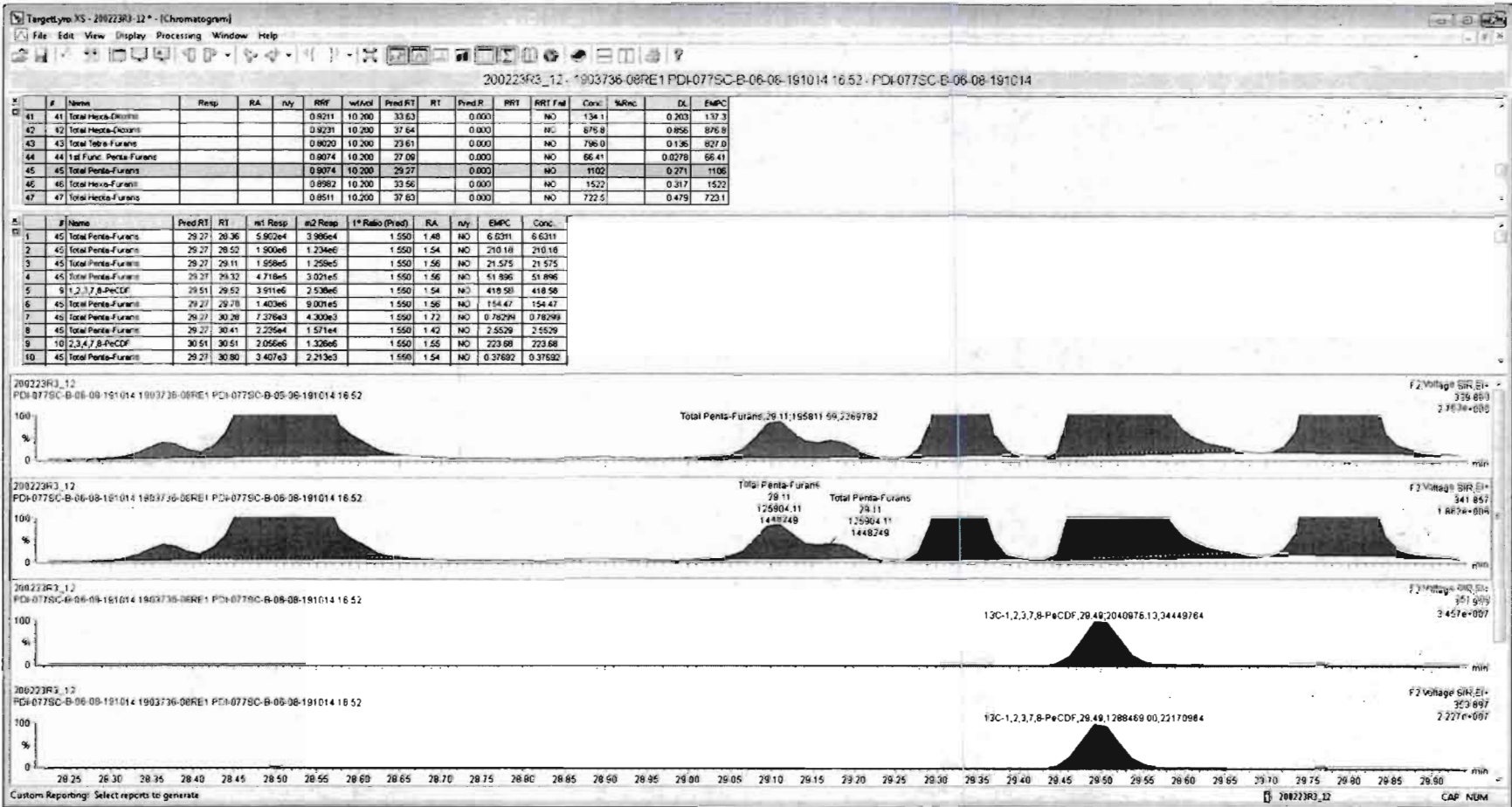


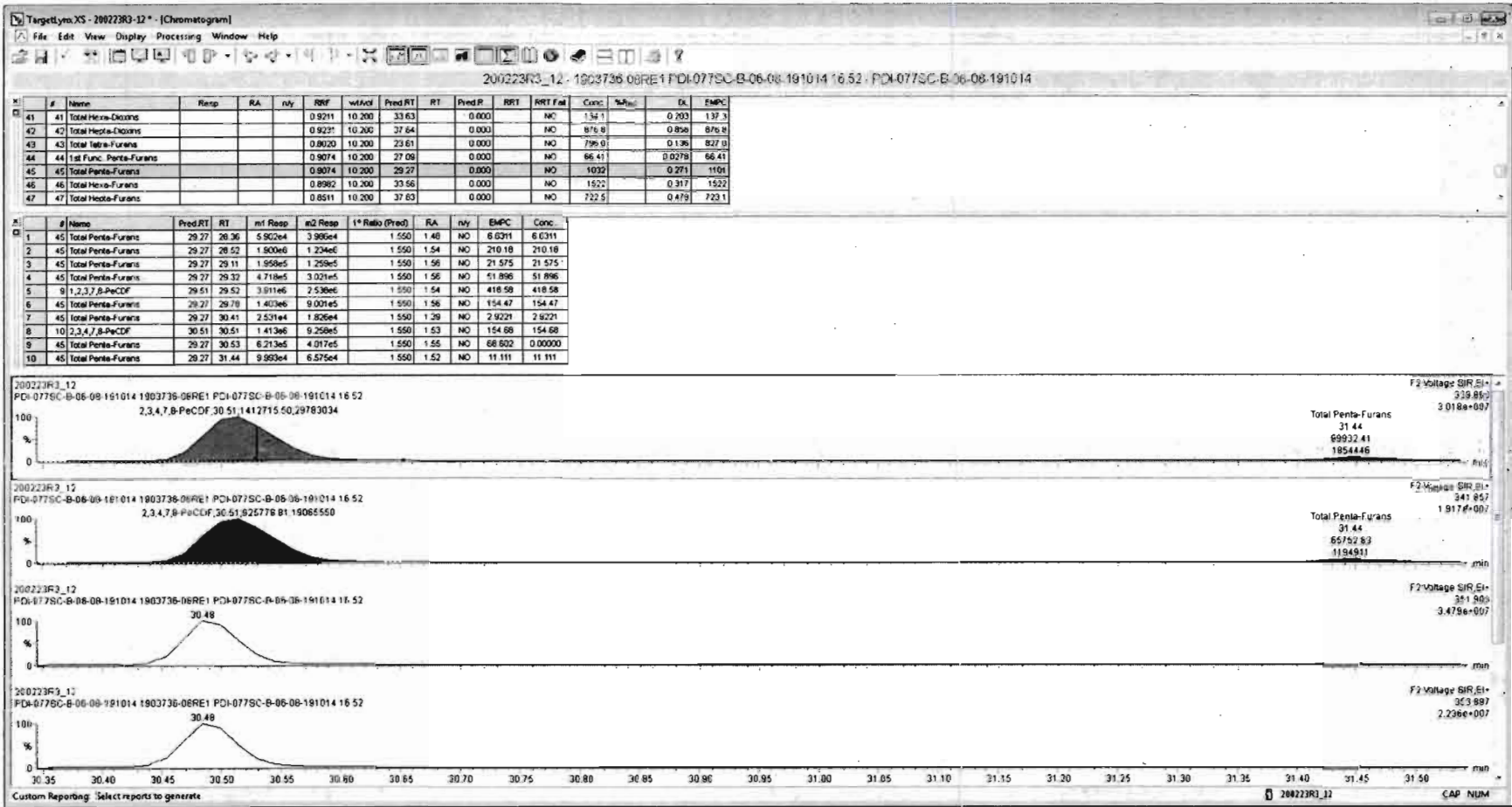
200223R3_12



DPE2

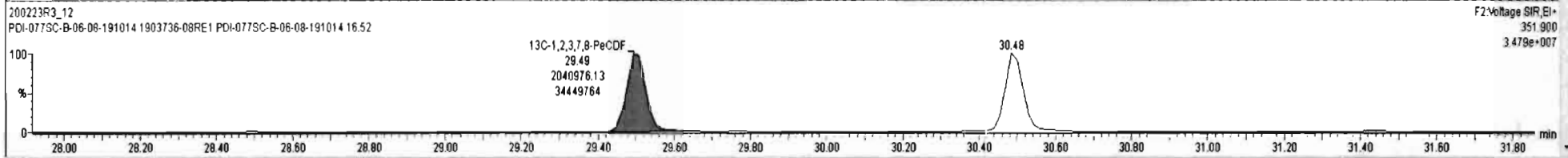
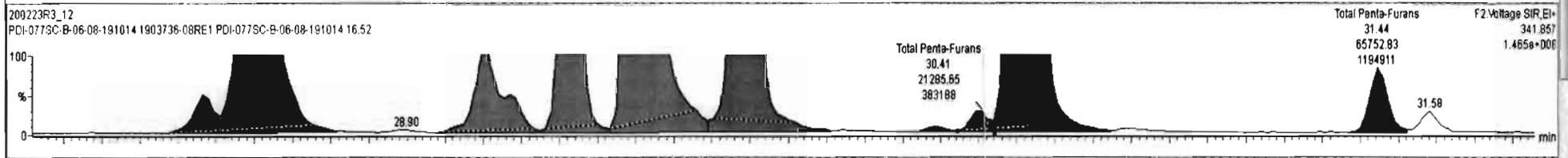
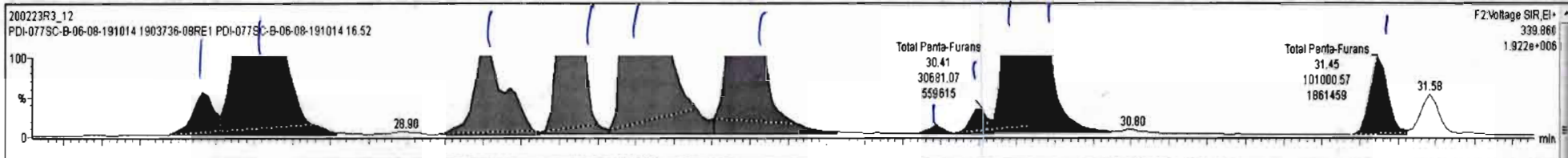






#	Name	Resp	RA	n/y	RRF	wt/rd	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.200	29.27		0.000		NO	1060		0.271	1134

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.36	6.579e4	4.346e4	1.550	1.51	NO	7.3258	7.3258
2	45 Total Penta-Furans	29.27	28.52	1.952e6	1.254e6	1.550	1.56	NO	214.96	214.96
3	45 Total Penta-Furans	29.27	29.11	2.093e5	1.376e5	1.550	1.52	NO	23.267	23.267
4	45 Total Penta-Furans	29.27	29.32	4.980e5	3.204e5	1.550	1.55	NO	54.885	54.885
5	9 1,2,3,7,8-PeCDF	29.51	29.52	3.963e6	2.576e6	1.550	1.55	NO	425.71	425.71
6	45 Total Penta-Furans	29.27	29.78	1.479e6	9.538e5	1.550	1.55	NO	163.15	163.15
7	45 Total Penta-Furans	29.27	30.29	7.325e3	5.164e3	1.550	1.42	NO	0.83750	0.83750
8	45 Total Penta-Furans	29.27	30.41	3.068e4	2.129e4	1.550	1.44	NO	3.4850	3.4850
9	10 2,3,4,7,8-PeCDF	30.51	30.51	1.426e6	9.260e5	1.550	1.54	NO	155.60	155.60
10	45 Total Penta-Furans	29.27	30.53	6.712e5	4.262e5	1.550	1.57	NO	73.728	0.00000
11	45 Total Penta-Furans	29.27	31.45	1.010e5	6.575e4	1.550	1.54	NO	11.183	11.183



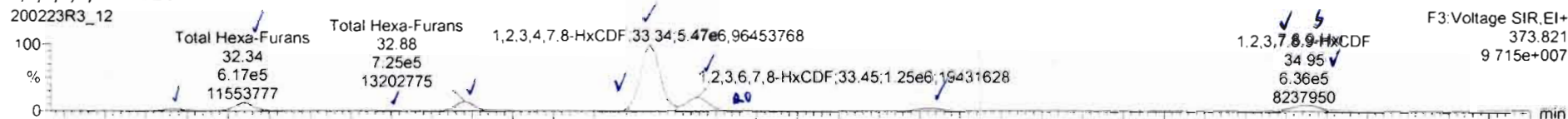
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

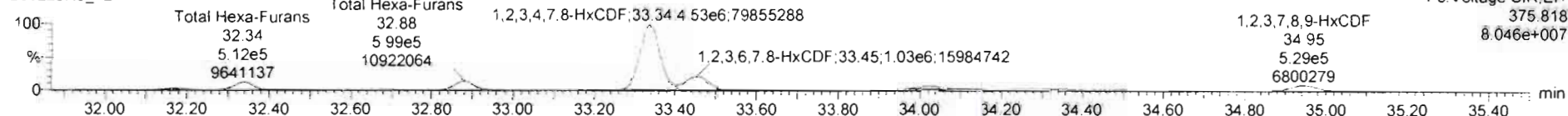
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

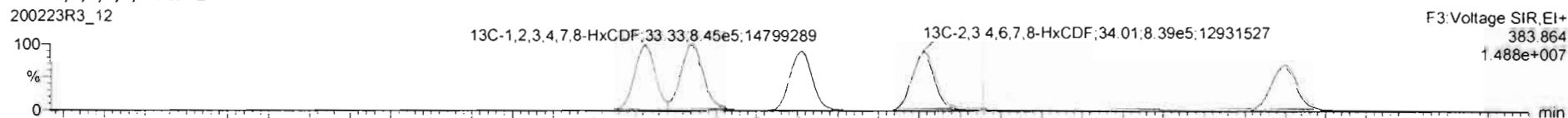
1,2,3,4,7,8-HxCDF



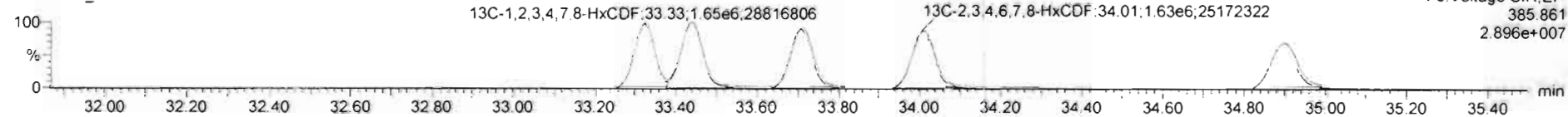
200223R3_12



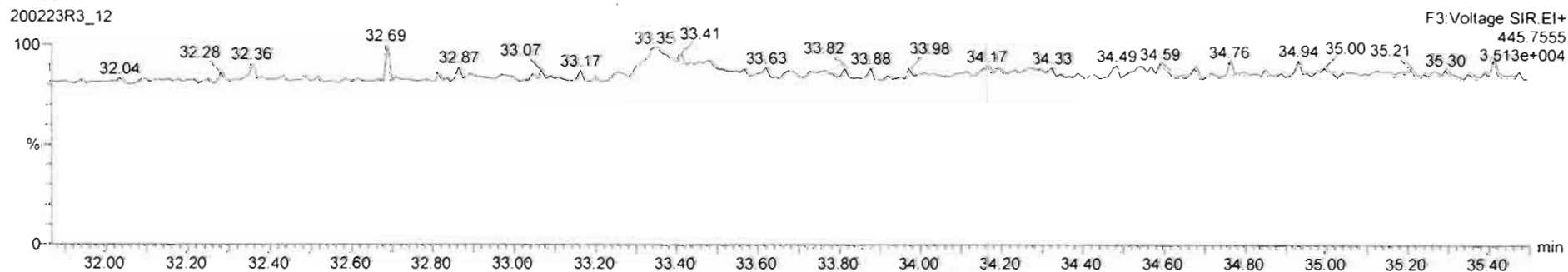
13C-1,2,3,4,7,8-HxCDF



200223R3_12

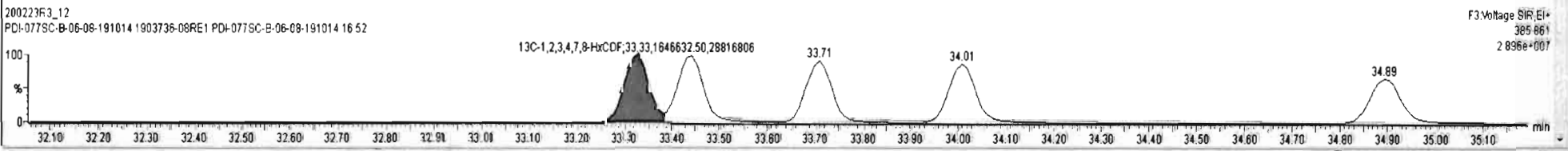
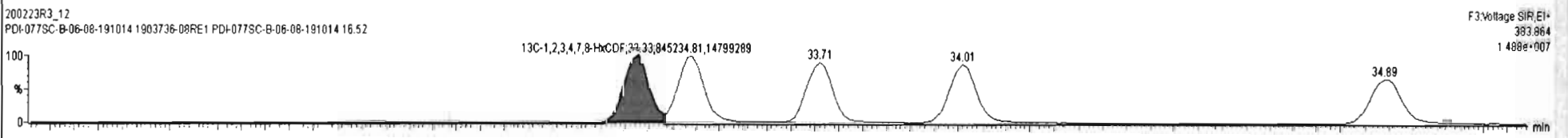
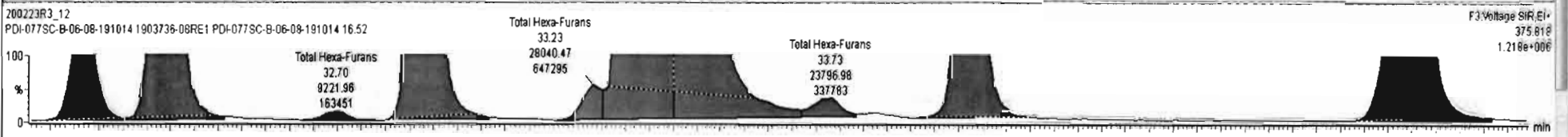
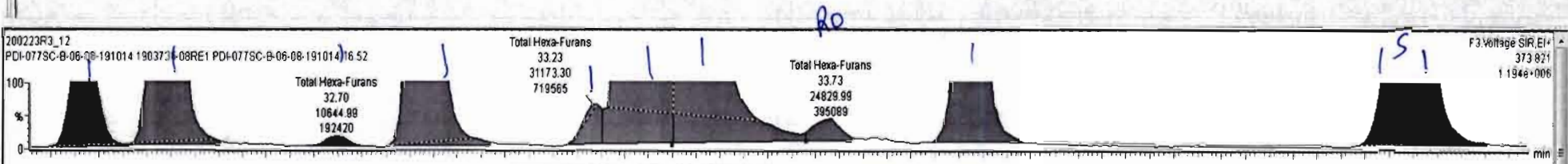


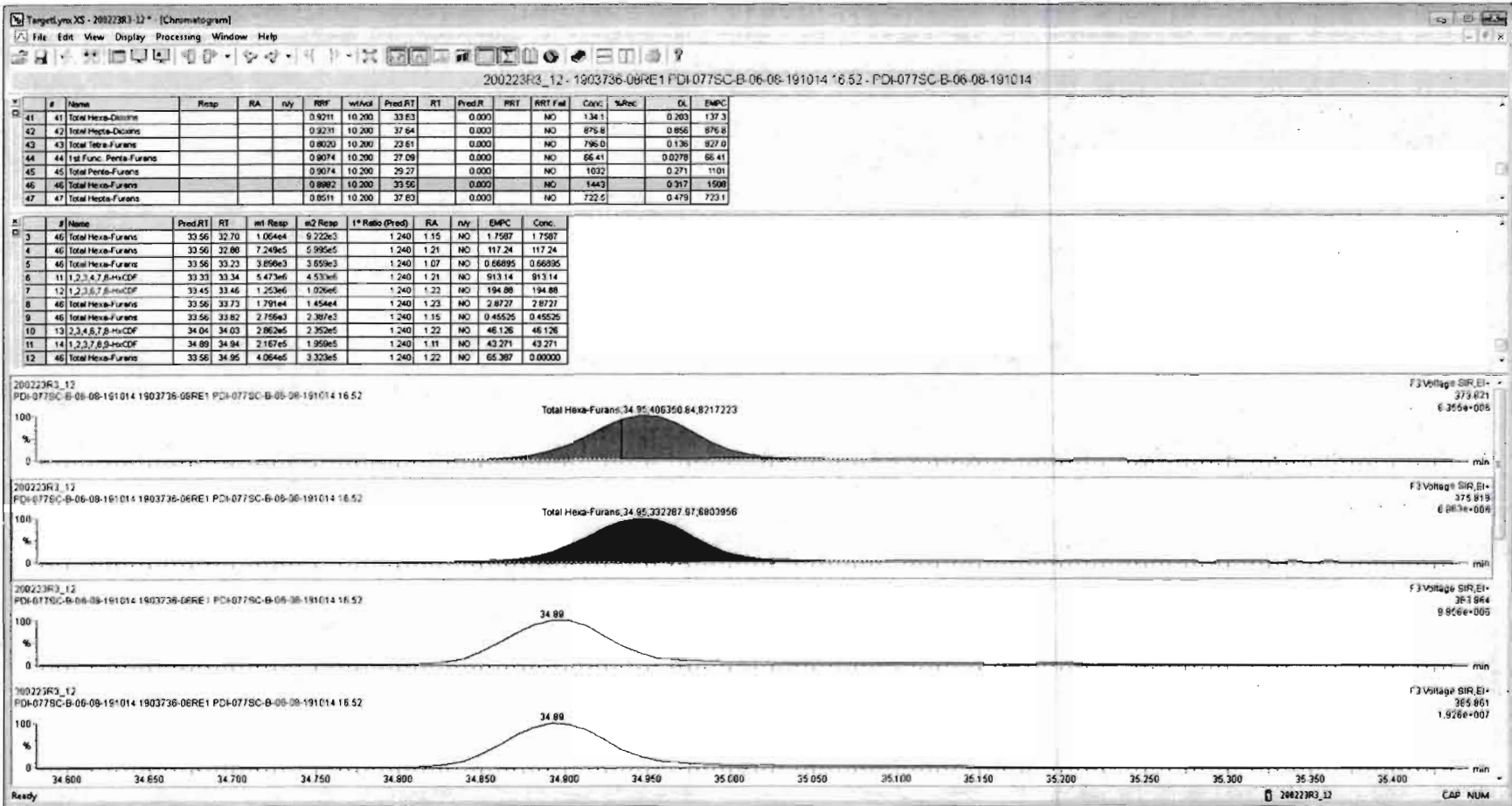
DPE3



#	Name	Resp	RA	n/y	RRF	wt/Avl	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.6982	10.200	33.56		0.000		NO	1482		0.317	1554

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.17	1.404e5	1.175e5	1.240	1.20	NO	22.830	22.830
2	46 Total Hexa-Furans	33.56	32.34	6.282e5	5.240e5	1.240	1.20	NO	102.08	102.08
3	46 Total Hexa-Furans	33.56	32.70	1.064e4	9.222e3	1.240	1.15	NO	1.7587	1.7587
4	46 Total Hexa-Furans	33.56	32.88	7.398e5	6.097e5	1.240	1.21	NO	119.47	119.47
5	46 Total Hexa-Furans	33.56	33.23	3.117e4	2.804e4	1.240	1.11	NO	5.2419	5.2419
6	11 1,2,3,4,7,8-HxCDF	33.33	33.34	5.583e6	4.615e6	1.240	1.21	NO	928.87	928.87
7	12 1,2,3,6,7,8-HxCDF	33.45	33.45	1.355e6	1.121e6	1.240	1.21	NO	211.77	211.77
8	46 Total Hexa-Furans	33.56	33.73	2.483e4	2.380e4	1.240	1.04	YES	3.9707	0.00000
9	13 2,3,4,6,7,8-HxCDF	34.04	34.03	2.862e5	2.375e5	1.240	1.21	NO	46.330	46.330
10	14 1,2,3,7,8-HxCDF	34.88	34.84	2.197e5	1.935e5	1.240	1.14	NO	43.338	43.338
11	46 Total Hexa-Furans	33.56	34.95	4.240e5	3.457e5	1.240	1.23	NO	68.135	0.00000





Dataset: Untitled

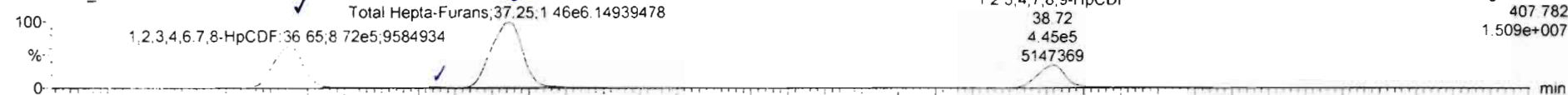
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

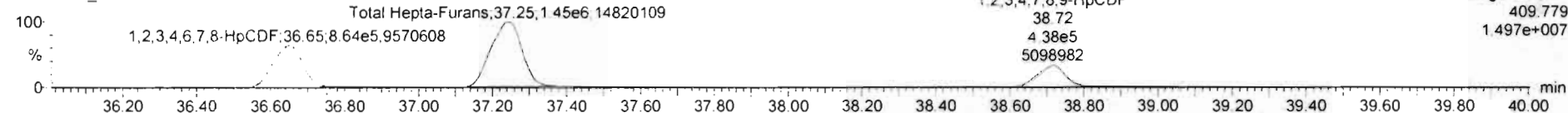
1,2,3,4,6,7,8-HpCDF

200223R3_12



F4: Voltage SIR, EI+
407.782
1.509e+007

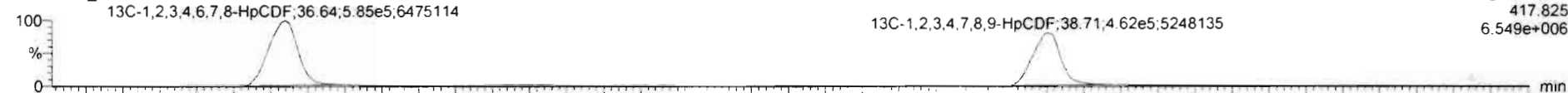
200223R3_12



F4: Voltage SIR, EI+
409.779
1.497e+007

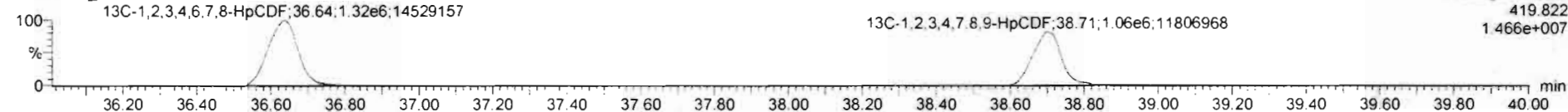
13C-1,2,3,4,6,7,8-HpCDF

200223R3_12



F4: Voltage SIR, EI+
417.825
6.549e+006

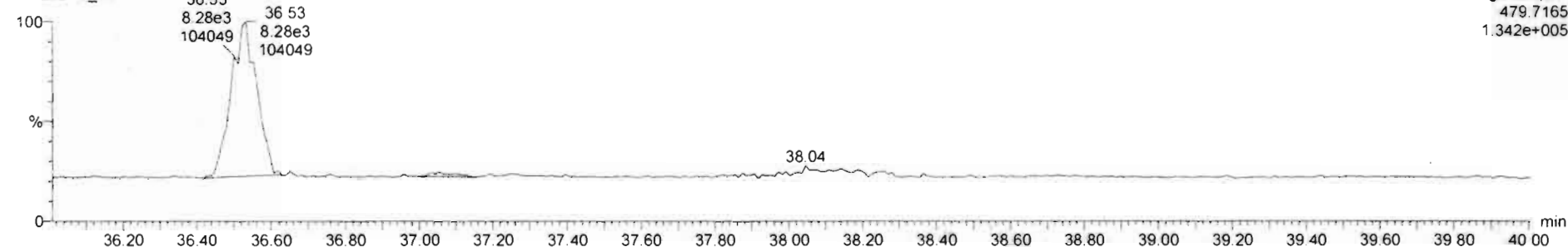
200223R3_12



F4: Voltage SIR, EI+
419.822
1.466e+007

DPE4

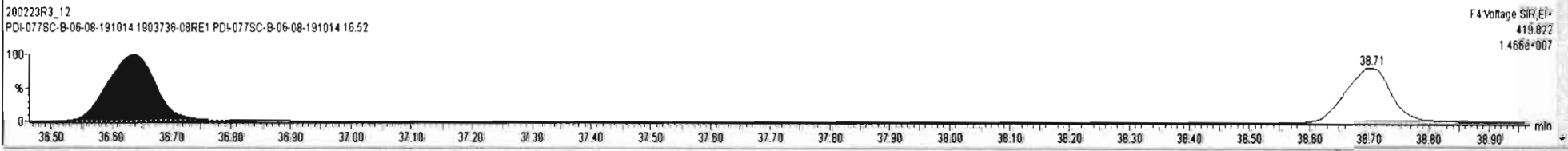
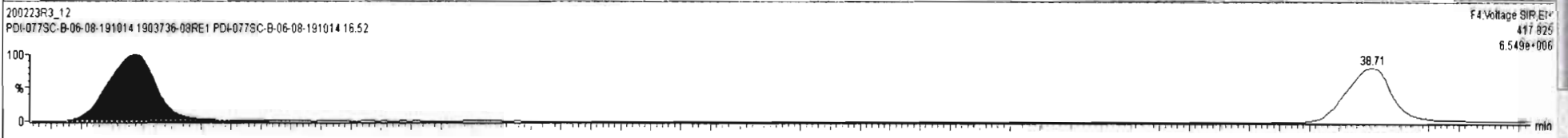
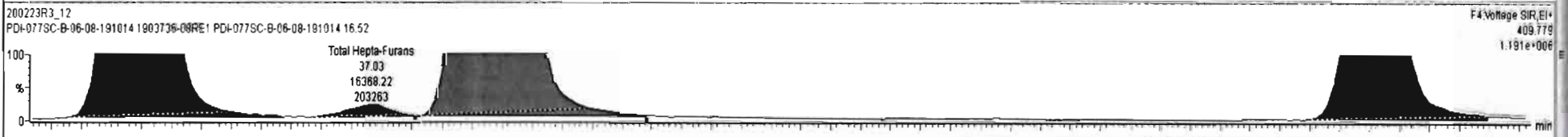
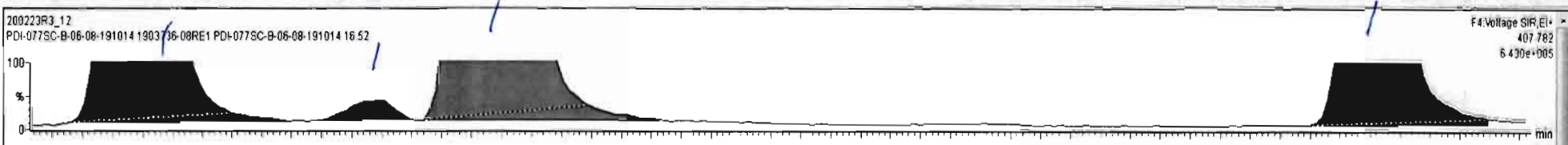
200223R3_12



F4: Voltage SIR, EI+
479.7165
1.342e+005

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.8982	10.200	33.56		0.000		NO	1482		0.317	1554

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.88	36.85	8.878e5	8.787e5	1.040	1.01	NO	209.92	209.92
2	Total Hepta-Furans	37.83	37.04	1.557e4	1.637e4	1.040	0.95	NO	4.2590	4.2590
3	Total Hepta-Furans	37.83	37.25	1.487e6	1.473e6	1.040	1.01	NO	394.65	394.65
4	1,2,3,4,7,8,9-HpCDF	38.71	38.72	4.531e5	4.468e5	1.040	1.01	NO	118.71	118.71

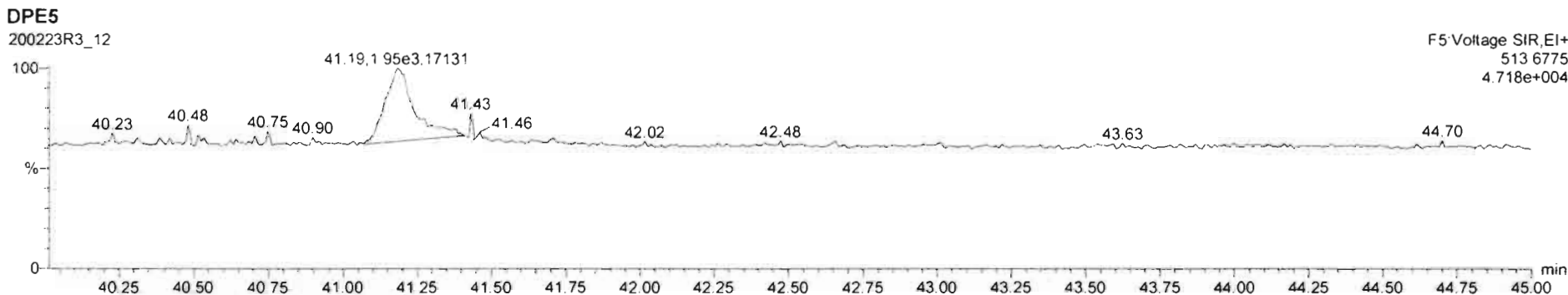
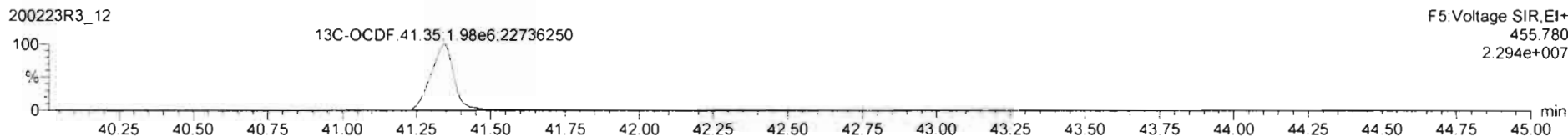
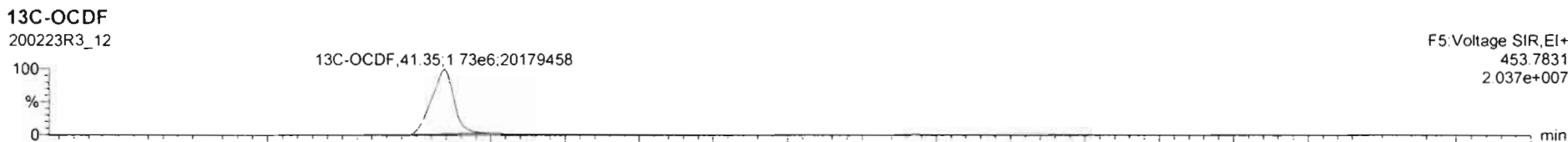
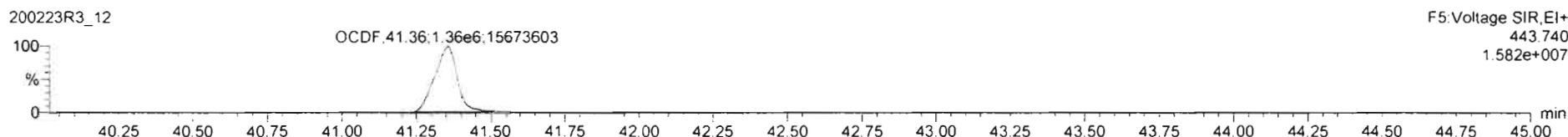
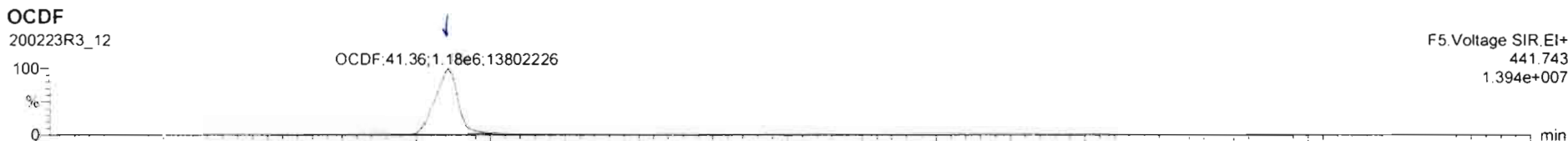


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

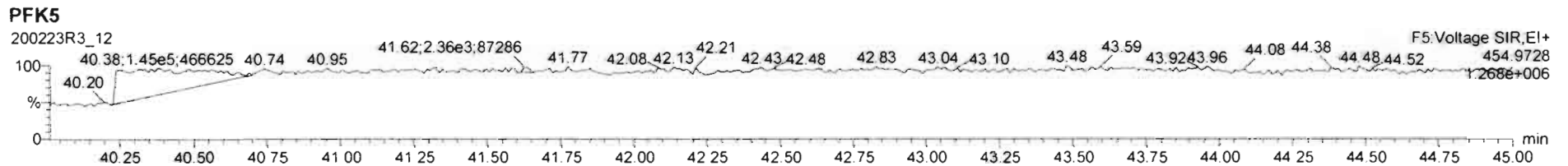
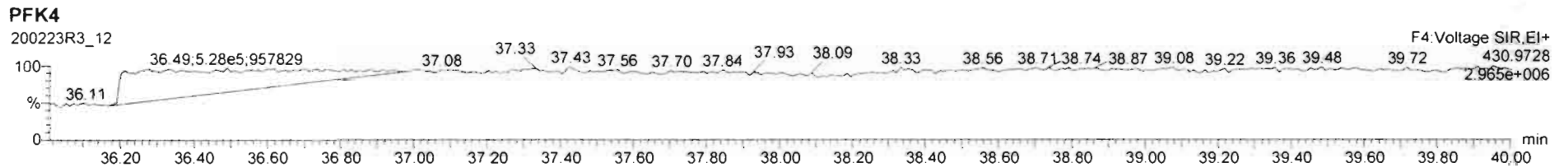
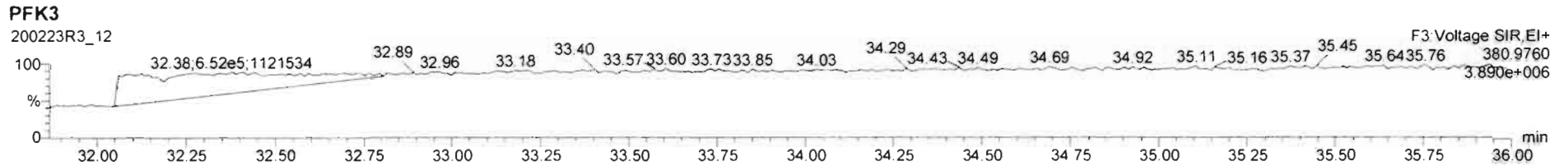
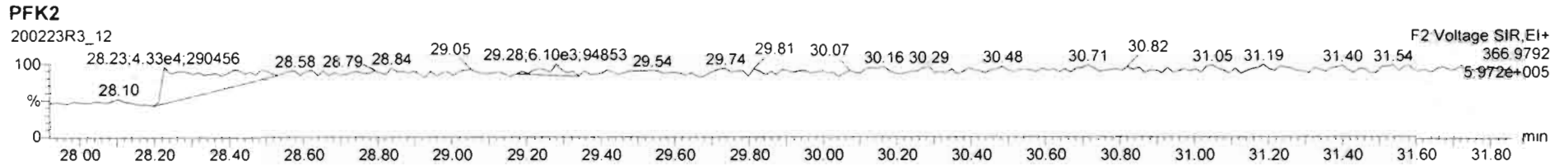
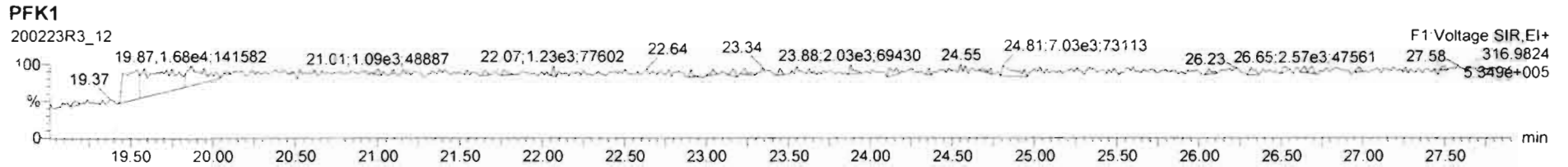
Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_12, Date: 24-Feb-2020, Time: 12:16:44, ID: 1903736-08RE1 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014



Dataset: U:\VG12.PRO\Results\200224R1\200224R1-7a.qld

Last Altered: Monday, March 16, 2020 10:41:38 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:48:46 Pacific Daylight Time

ju 03-16-2020

ju 3/21/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

#	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	15311.974	0.721	NO	0.988	10.425	25.80	25.80	1.00	1.00	NO	1.397		0.0650	1.397
2	2 1,2,3,7,8-PeCDD	15203.016	0.636	NO	0.972	10.425	30.86	30.86	1.00	1.00	NO	1.739		0.0627	1.739
3	3 1,2,3,4,7,8-HxCDD	11352.498	1.418	NO	1.07	10.425	34.22	34.22	1.00	1.00	NO	1.555		0.170	1.555
4	4 1,2,3,6,7,8-HxCDD	70246.821	1.283	NO	0.921	10.425	34.32	34.33	1.00	1.00	NO	9.242		0.171	9.242
5	5 1,2,3,7,8,9-HxCDD	29637.215	1.242	NO	0.918	10.425	34.63	34.60	1.00	1.00	NO	4.228		0.188	4.228
6	6 1,2,3,4,6,7,8-HpCDD	1150667.0...	1.015	NO	0.923	10.425	38.10	38.10	1.00	1.00	NO	189.6		0.719	189.6
7	7 OCDD	9811108.000	0.892	NO	0.975	10.425	41.18	41.19	1.00	1.00	NO	1848		0.496	1848
8	8 2,3,7,8-TCDF	1422291.8...	0.762	NO	0.802	10.425	24.85	24.84	1.00	1.00	NO	130.5	(119.9)	0.167	130.5
9	9 1,2,3,7,8-PeCDF	1855722.6...	1.551	NO	0.907	10.425	29.56	29.55	1.00	1.00	NO	163.2		0.227	163.2
10	10 2,3,4,7,8-PeCDF	600536.750	1.532	NO	0.952	10.425	30.55	30.55	1.00	1.00	NO	54.08		0.217	54.08
11	11 1,2,3,4,7,8-HxCDF	1845772.3...	1.224	NO	0.862	10.425	33.36	33.37	1.00	1.00	NO	242.4		0.198	242.4
12	12 1,2,3,6,7,8-HxCDF	530230.703	1.153	NO	0.841	10.425	33.49	33.49	1.00	1.00	NO	64.87		0.200	64.87
13	13 2,3,4,6,7,8-HxCDF	127185.925	1.208	NO	0.898	10.425	34.09	34.06	1.00	1.00	NO	16.01		0.212	16.01
14	14 1,2,3,7,8,9-HxCDF	75192.887	1.123	NO	0.858	10.425	34.92	34.97	1.00	1.00	NO	11.32		0.277	11.32
15	15 1,2,3,4,6,7,8-HpCDF	497567.954	1.002	NO	0.851	10.425	36.71	36.68	1.00	1.00	NO	87.36		0.301	87.36
16	16 1,2,3,4,7,8,9-HpCDF	172819.234	0.988	NO	0.980	10.425	38.73	38.74	1.00	1.00	NO	34.23		0.333	34.23
17	17 OCDF	945164.844	0.866	NO	0.806	10.425	41.36	41.37	1.00	1.00	NO	188.6		0.200	188.6
18	18 13C-2,3,7,8-TCDD	2127556.8...	0.782	NO	1.20	10.425	25.74	25.76	1.03	1.03	NO	154.3	80.5	0.144	
19	19 13C-1,2,3,7,8-PeCDD	1725026.8...	0.633	NO	0.967	10.425	30.49	30.83	1.22	1.23	NO	155.2	80.9	0.138	
20	20 13C-1,2,3,4,7,8-HxCDD	1307979.0...	1.281	NO	0.874	10.425	34.22	34.21	1.01	1.01	NO	137.8	71.8	0.173	
21	21 13C-1,2,3,6,7,8-HxCDD	1583066.6...	1.268	NO	1.05	10.425	34.32	34.32	1.02	1.02	NO	139.3	72.6	0.145	
22	22 13C-1,2,3,7,8,9-HxCDD	1464700.4...	1.244	NO	0.974	10.425	34.62	34.60	1.03	1.03	NO	138.4	72.1	0.156	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1261050.4...	1.058	NO	0.747	10.425	38.20	38.09	1.13	1.13	NO	155.4	81.0	0.324	
24	24 13C-OCDD	2090416.6...	0.852	NO	0.707	10.425	41.10	41.18	1.22	1.22	NO	272.4	71.0	0.203	
25	25 13C-2,3,7,8-TCDF	2606676.2...	0.773	NO	1.07	10.425	24.92	24.82	0.99	0.99	NO	152.3	79.4	0.210	
26	26 13C-1,2,3,7,8-PeCDF	2403894.3...	1.563	NO	1.00	10.425	29.51	29.54	1.18	1.18	NO	149.4	77.9	0.269	
27	27 13C-2,3,4,7,8-PeCDF	2238560.3...	1.585	NO	0.962	10.425	30.48	30.53	1.21	1.22	NO	144.9	75.5	0.280	
28	28 13C-1,2,3,4,7,8-HxCDF	1694342.2...	0.513	NO	1.05	10.425	33.34	33.36	0.99	0.99	NO	148.7	77.5	0.252	
29	29 13C-1,2,3,6,7,8-HxCDF	1863643.8...	0.511	NO	1.19	10.425	33.44	33.48	0.99	0.99	NO	144.2	75.2	0.222	
30	30 13C-2,3,4,6,7,8-HxCDF	1696460.4...	0.519	NO	1.07	10.425	34.05	34.05	1.01	1.01	NO	146.5	76.3	0.248	
31	31 13C-1,2,3,7,8,9-HxCDF	1486056.5...	0.510	NO	0.922	10.425	34.96	34.92	1.04	1.04	NO	148.3	77.3	0.287	

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-7a.qld

Last Altered: Monday, March 16, 2020 10:41:38 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:48:46 Pacific Daylight Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

#	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	1283801.7...	0.446	NO	0.767	10.425	36.71	36.67	1.09	1.09	NO	154.0	80.3	0.312	
33	33 13C-1,2,3,4,7,8,9-HpCDF	988424.594	0.442	NO	0.552	10.425	38.74	38.73	1.15	1.15	NO	164.7	85.9	0.433	
34	34 13C-OCDF	2387440.8...	0.881	NO	0.789	10.425	41.34	41.36	1.23	1.23	NO	278.4	72.6	0.195	
35	35 37Cl-2,3,7,8-TCDD	806131.688			1.18	10.425	25.77	25.78	1.03	1.03	NO	59.59	77.7	0.0439	
36	36 13C-1,2,3,4-TCDD	2206431.6...	0.792	NO	1.00	10.425	25.11	25.09	1.00	1.00	NO	191.8	100	0.172	
37	37 13C-1,2,3,4-TCDF	3082070.0...	0.787	NO	1.00	10.425	23.37	23.31	1.00	1.00	NO	191.8	100	0.224	
38	38 13C-1,2,3,4,6,9-HxCDF	2084001.1...	0.505	NO	1.00	10.425	33.71	33.74	1.00	1.00	NO	191.8	100	0.265	
39	39 Total Tetra-Dioxins				0.988	10.425	24.62		0.00		NO	16.75		0.0650	17.18
40	40 Total Penta-Dioxins				0.972	10.425	29.96		0.00		NO	17.54		0.0627	17.54
41	41 Total Hexa-Dioxins				0.921	10.425	33.63		0.00		NO	91.53		0.184	91.53
42	42 Total Hepta-Dioxins				0.923	10.425	37.64		0.00		NO	438.4		0.719	438.4
43	43 Total Tetra-Furans				0.802	10.425	23.61		0.00		NO	774.7		0.167	780.3
44	44 1st Func. Penta-Furans				0.907	10.425	27.09		0.00		NO	78.72		0.0314	78.72
45	45 Total Penta-Furans				0.907	10.425	29.27		0.00		NO	435.3		0.227	435.3
46	46 Total Hexa-Furans				0.898	10.425	33.56		0.00		NO	453.4		0.211	453.4
47	47 Total Hepta-Furans				0.851	10.425	37.83		0.00		NO	267.8		0.337	267.8

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-7a.qld

Last Altered: Monday, March 16, 2020 10:41:38 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:49:08 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	6.58e4	2.13e6	0.783	NO	24.62	21.65	6.001	6.001
2	39 Total Tetra-Dioxins	1.50e4	2.13e6	0.749	NO	24.62	22.05	1.372	1.372
3	39 Total Tetra-Dioxins	5.29e3	2.13e6	0.724	NO	24.62	22.56	0.4827	0.4827
4	39 Total Tetra-Dioxins	3.87e3	2.13e6	0.738	NO	24.62	23.50	0.3535	0.3535
5	39 Total Tetra-Dioxins	1.19e4	2.13e6	0.862	NO	24.62	23.77	1.086	1.086
6	39 Total Tetra-Dioxins	1.24e4	2.13e6	0.767	NO	24.62	24.00	1.130	1.130
7	39 Total Tetra-Dioxins	3.37e3	2.13e6	0.767	NO	24.62	24.22	0.3078	0.3078
8	39 Total Tetra-Dioxins	0.00e0	2.13e6	0.646	YES	24.62	24.49	0.0000	0.2216
9	39 Total Tetra-Dioxins	3.83e3	2.13e6	0.722	NO	24.62	24.70	0.3495	0.3495
10	39 Total Tetra-Dioxins	3.80e3	2.13e6	0.702	NO	24.62	25.05	0.3468	0.3468
11	39 Total Tetra-Dioxins	1.49e3	2.13e6	0.831	NO	24.62	25.23	0.1359	0.1359
12	39 Total Tetra-Dioxins	3.49e4	2.13e6	0.838	NO	24.62	25.51	3.184	3.184
13	39 Total Tetra-Dioxins	0.00e0	2.13e6	0.615	YES	24.62	25.63	0.0000	0.1114
14	1 2,3,7,8-TCDD	1.53e4	2.13e6	0.721	NO	25.80	25.80	1.397	1.397
15	39 Total Tetra-Dioxins	5.15e3	2.13e6	0.821	NO	24.62	26.13	0.4700	0.4700
16	39 Total Tetra-Dioxins	0.00e0	2.13e6	0.985	YES	24.62	26.24	0.0000	0.1010
17	39 Total Tetra-Dioxins	1.43e3	2.13e6	0.744	NO	24.62	26.75	0.1308	0.1308

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-7a.qld

Last Altered: Monday, March 16, 2020 10:41:38 Pacific Daylight Time
 Printed: Monday, March 16, 2020 10:49:08 Pacific Daylight Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	4.41e4	1.73e6	0.623	NO	29.96	28.61	5.044	5.044
2	40 Total Penta-Dioxins	1.05e4	1.73e6	0.623	NO	29.96	29.10	1.205	1.205
3	40 Total Penta-Dioxins	2.12e4	1.73e6	0.708	NO	29.96	29.60	2.422	2.422
4	40 Total Penta-Dioxins	1.77e4	1.73e6	0.604	NO	29.96	29.78	2.020	2.020
5	40 Total Penta-Dioxins	1.01e4	1.73e6	0.645	NO	29.96	29.86	1.160	1.160
6	40 Total Penta-Dioxins	2.06e4	1.73e6	0.684	NO	29.96	30.09	2.353	2.353
7	40 Total Penta-Dioxins	4.22e3	1.73e6	0.577	NO	29.96	30.44	0.4832	0.4832
8	2 1,2,3,7,8-PeCDD	1.52e4	1.73e6	0.636	NO	30.86	30.86	1.739	1.739
9	40 Total Penta-Dioxins	4.13e3	1.73e6	0.698	NO	29.96	30.94	0.4729	0.4729
10	40 Total Penta-Dioxins	5.61e3	1.73e6	0.571	NO	29.96	31.25	0.6420	0.6420

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	2.22e5	0.00e0	1.259	NO	33.63	32.76	31.82	31.82
2	41 Total Hexa-Dioxins	2.72e4	0.00e0	1.242	NO	33.63	33.31	3.898	3.898
3	41 Total Hexa-Dioxins	2.63e5	0.00e0	1.230	NO	33.63	33.56	37.66	37.66
4	41 Total Hexa-Dioxins	1.35e4	0.00e0	1.280	NO	33.63	33.66	1.932	1.932
5	3 1,2,3,4,7,8-HxCDD	1.14e4	1.31e6	1.418	NO	34.22	34.22	1.555	1.555
6	4 1,2,3,6,7,8-HxCDD	7.02e4	1.58e6	1.283	NO	34.32	34.33	9.242	9.242
7	41 Total Hexa-Dioxins	8.32e3	0.00e0	1.415	NO	33.63	34.51	1.193	1.193
8	5 1,2,3,7,8,9-HxCDD	2.96e4	1.46e6	1.242	NO	34.63	34.60	4.228	4.228

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	1.51e6	1.26e6	1.028	NO	37.64	37.06	248.8	248.8
2	6 1,2,3,4,6,7,8-HpCDD	1.15e6	1.26e6	1.015	NO	38.10	38.10	189.6	189.6

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-7a.qld

Last Altered: Monday, March 16, 2020 10:41:38 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:49:08 Pacific Daylight Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	2.08e4	2.61e6	0.751	NO	23.61	19.58	1.907	1.907
2	43 Total Tetra-Furans	6.58e4	2.61e6	0.774	NO	23.61	20.11	6.036	6.036
3	43 Total Tetra-Furans	4.09e6	2.61e6	0.762	NO	23.61	20.68	375.0	375.0
4	43 Total Tetra-Furans	7.28e4	2.61e6	0.692	NO	23.61	21.13	6.680	6.680
5	43 Total Tetra-Furans	4.33e5	2.61e6	0.756	NO	23.61	21.62	39.69	39.69
6	43 Total Tetra-Furans	1.11e5	2.61e6	0.753	NO	23.61	22.07	10.15	10.15
7	43 Total Tetra-Furans	2.06e4	2.61e6	0.733	NO	23.61	22.25	1.889	1.889
8	43 Total Tetra-Furans	6.99e4	2.61e6	0.744	NO	23.61	22.43	6.414	6.414
9	43 Total Tetra-Furans	1.31e4	2.61e6	0.821	NO	23.61	22.88	1.202	1.202
10	43 Total Tetra-Furans	1.37e4	2.61e6	0.687	NO	23.61	23.03	1.258	1.258
11	43 Total Tetra-Furans	1.93e5	2.61e6	0.752	NO	23.61	23.21	17.69	17.69
12	43 Total Tetra-Furans	1.90e5	2.61e6	0.766	NO	23.61	23.31	17.41	17.41
13	43 Total Tetra-Furans	1.25e6	2.61e6	0.764	NO	23.61	23.86	114.7	114.7
14	43 Total Tetra-Furans	5.64e4	2.61e6	0.711	NO	23.61	24.16	5.178	5.178
15	43 Total Tetra-Furans	1.40e4	2.61e6	0.733	NO	23.61	24.40	1.285	1.285
16	43 Total Tetra-Furans	1.51e4	2.61e6	0.807	NO	23.61	24.63	1.385	1.385
17	43 Total Tetra-Furans	1.58e5	2.61e6	0.758	NO	23.61	24.73	14.53	14.53
18	8 2,3,7,8-TCDF	1.42e6	2.61e6	0.762	NO	24.85	24.84	130.5	130.5
19	43 Total Tetra-Furans	8.07e4	2.61e6	0.777	NO	23.61	25.24	7.409	7.409
20	43 Total Tetra-Furans	1.25e4	2.61e6	0.807	NO	23.61	25.50	1.146	1.146
21	43 Total Tetra-Furans	1.44e5	2.61e6	0.871	NO	23.61	26.92	13.24	13.24
22	43 Total Tetra-Furans	0.00e0	2.61e6	0.740	NO	23.61	21.19	0.0000	5.432
23	43 Total Tetra-Furans	0.00e0	2.61e6	1.595	YES	23.61	26.32	0.0000	0.1498

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	8.64e5	0.00e0	1.563	NO	27.09	26.93	78.72	78.72

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-7a.qld

Last Altered: Monday, March 16, 2020 10:41:38 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:49:08 Pacific Daylight Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	3.53e4	0.00e0	1.628	NO	29.27	28.41	3.218	3.218
2	45 Total Penta-Furans	9.50e5	0.00e0	1.539	NO	29.27	28.56	86.55	86.55
3	45 Total Penta-Furans	4.47e3	0.00e0	1.669	NO	29.27	28.91	0.4069	0.4069
4	45 Total Penta-Furans	9.34e4	0.00e0	1.489	NO	29.27	29.14	8.503	8.503
5	45 Total Penta-Furans	2.03e5	0.00e0	1.541	NO	29.27	29.37	18.48	18.48
6	9 1,2,3,7,8-PeCDF	1.86e6	2.40e6	1.551	NO	29.56	29.55	163.2	163.2
7	45 Total Penta-Furans	6.63e5	0.00e0	1.541	NO	29.27	29.83	60.35	60.35
8	45 Total Penta-Furans	3.73e3	0.00e0	1.619	NO	29.27	30.32	0.3393	0.3393
9	45 Total Penta-Furans	1.40e4	0.00e0	1.528	NO	29.27	30.44	1.273	1.273
10	10 2,3,4,7,8-PeCDF	6.01e5	2.24e6	1.532	NO	30.55	30.55	54.08	54.08
11	45 Total Penta-Furans	5.03e4	0.00e0	1.543	NO	29.27	31.49	4.579	4.579
12	45 Total Penta-Furans	3.77e5	0.00e0	1.572	NO	29.27	30.56	34.30	34.30

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	7.62e4	0.00e0	1.238	NO	33.56	32.21	9.662	9.662
2	46 Total Hexa-Furans	2.97e5	0.00e0	1.193	NO	33.56	32.38	37.66	37.66
3	46 Total Hexa-Furans	7.62e3	0.00e0	1.212	NO	33.56	32.73	0.9664	0.9664
4	46 Total Hexa-Furans	3.67e5	0.00e0	1.219	NO	33.56	32.91	46.50	46.50
5	46 Total Hexa-Furans	1.86e4	0.00e0	1.173	NO	33.56	33.26	2.352	2.352
6	11 1,2,3,4,7,8-HxCDF	1.85e6	1.69e6	1.224	NO	33.36	33.37	242.4	242.4
7	12 1,2,3,6,7,8-HxCDF	5.30e5	1.86e6	1.153	NO	33.49	33.49	64.87	64.87
8	46 Total Hexa-Furans	1.47e4	0.00e0	1.308	NO	33.56	33.76	1.866	1.866
9	13 2,3,4,6,7,8-HxCDF	1.27e5	1.70e6	1.208	NO	34.09	34.06	16.01	16.01
10	14 1,2,3,7,8,9-HxCDF	7.52e4	1.49e6	1.123	NO	34.92	34.97	11.32	11.32
11	46 Total Hexa-Furans	1.56e5	0.00e0	1.224	NO	33.56	34.98	19.82	19.82

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-7a.qld

Last Altered: Monday, March 16, 2020 10:41:38 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:49:08 Pacific Daylight Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	4.98e5	1.28e6	1.002	NO	36.71	36.68	87.36	87.36
2	47 Total Hepta-Furans	1.11e4	0.00e0	1.004	NO	37.83	37.06	2.210	2.210
3	47 Total Hepta-Furans	7.26e5	0.00e0	1.009	NO	37.83	37.27	144.0	144.0
4	16 1,2,3,4,7,8,9-HpCDF	1.73e5	9.88e5	0.988	NO	38.73	38.74	34.23	34.23

Dataset: Untitled

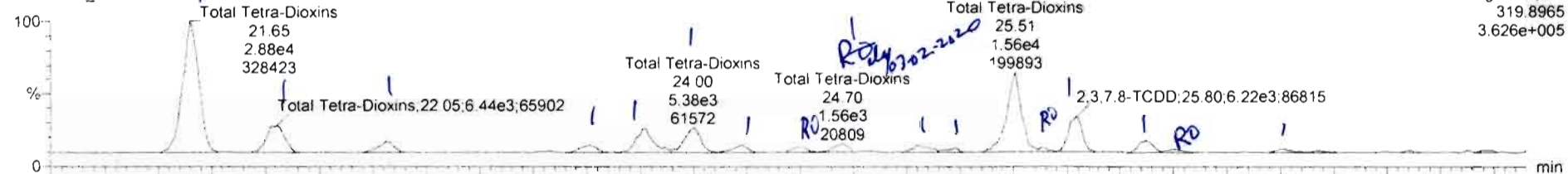
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

dy 03-03-2020

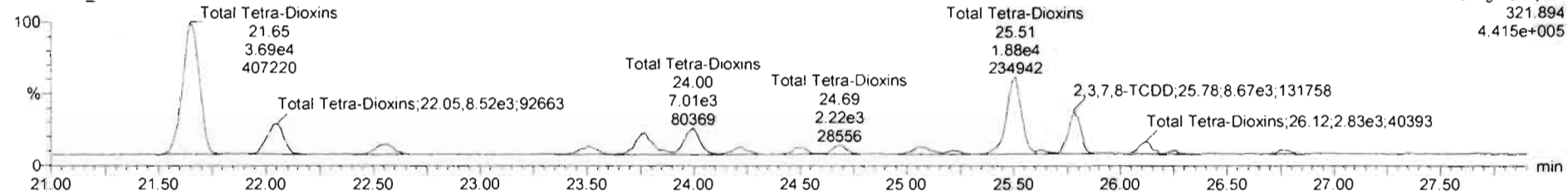
Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

2,3,7,8-TCDD

200224R1_7

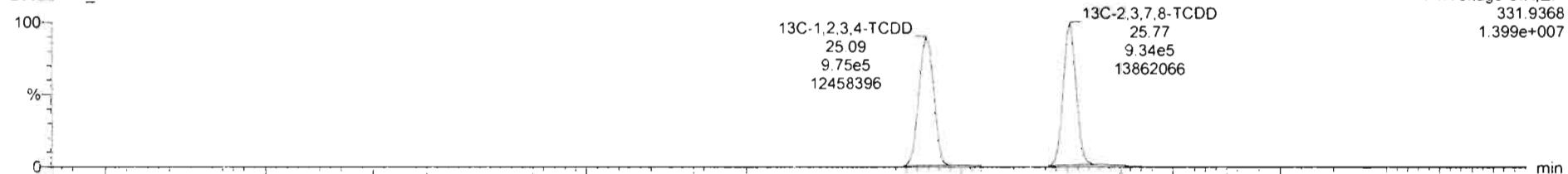


200224R1_7

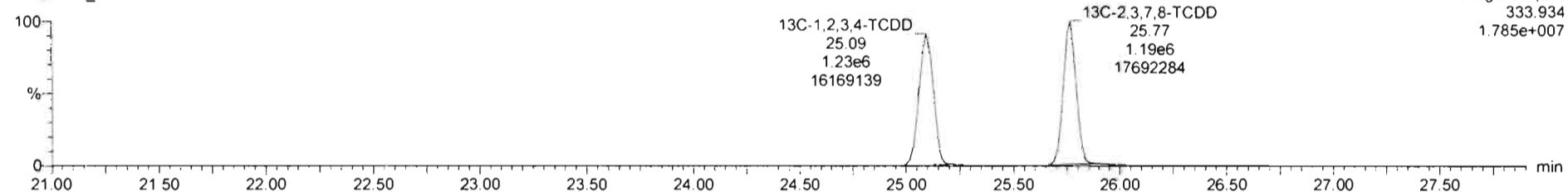


13C-2,3,7,8-TCDD

200224R1_7

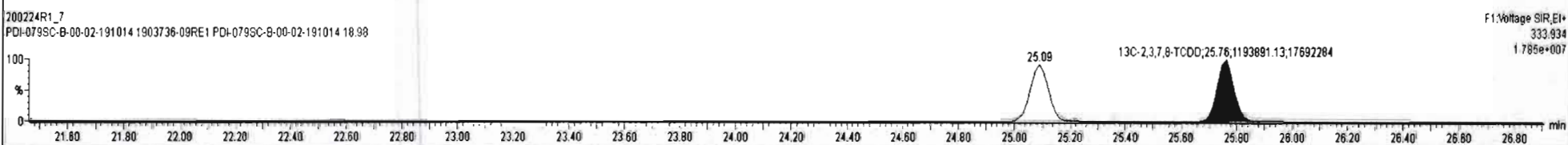
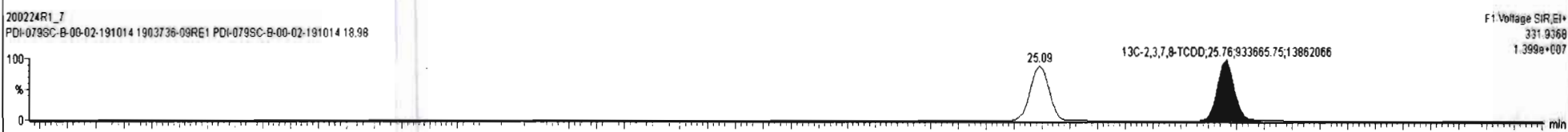
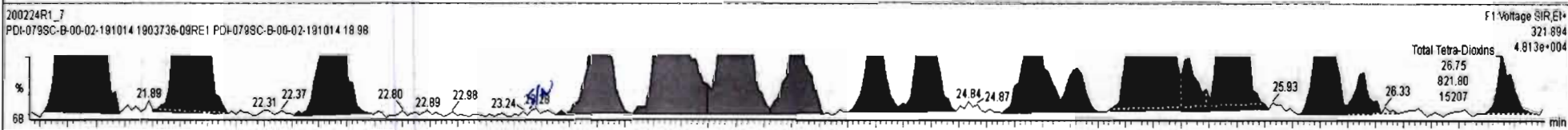
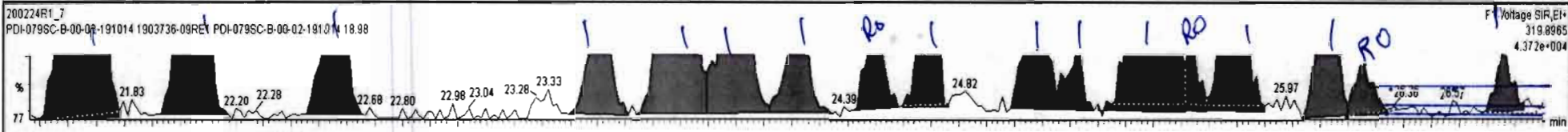


200224R1_7



#	Name	Resp	RA	n/y	RRF	wt/wd	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9801	10.425	24.62			0.000	NO	16.75		0.0650	17.18

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.65	2.889e4	3.686e4	0.770	0.78	NO	6.0014	6.0014
2	39 Total Tetra-Dioxins	24.62	22.05	6.436e3	8.598e3	0.770	0.75	NO	1.3720	1.3720
3	39 Total Tetra-Dioxins	24.62	22.56	2.222e3	3.068e3	0.770	0.72	NO	0.48269	0.48269
4	39 Total Tetra-Dioxins	24.62	23.50	1.645e3	2.228e3	0.770	0.74	NO	0.35350	0.35350
5	39 Total Tetra-Dioxins	24.62	23.77	5.508e3	6.389e3	0.770	0.86	NO	1.0856	1.0856
6	39 Total Tetra-Dioxins	24.62	24.00	5.376e3	7.009e3	0.770	0.77	NO	1.1303	1.1303
7	39 Total Tetra-Dioxins	24.62	24.22	1.464e3	1.909e3	0.770	0.77	NO	0.30785	0.30785
8	39 Total Tetra-Dioxins	24.62	24.49	1.056e3	1.635e3	0.770	0.65	YES	0.22161	0.00000
9	39 Total Tetra-Dioxins	24.62	24.70	1.606e3	2.224e3	0.770	0.72	NO	0.34952	0.34952
10	39 Total Tetra-Dioxins	24.62	25.05	1.567e3	2.233e3	0.770	0.70	NO	0.34677	0.34677
11	39 Total Tetra-Dioxins	24.62	25.23	6.758e2	8.133e2	0.770	0.83	NO	0.13590	0.13590
12	39 Total Tetra-Dioxins	24.62	25.51	1.590e4	1.890e4	0.770	0.84	NO	3.1836	3.1836
13	39 Total Tetra-Dioxins	24.62	25.63	5.310e2	8.630e2	0.770	0.62	YES	0.11140	0.00000
14	1 2,3,7,8-TCDD	25.80	25.80	6.414e3	8.898e3	0.770	0.72	NO	1.3974	1.3974
15	39 Total Tetra-Dioxins	24.62	26.13	2.322e3	2.829e3	0.770	0.82	NO	0.47002	0.47002
16	39 Total Tetra-Dioxins	24.62	26.24	6.164e2	6.256e2	0.770	0.99	YES	0.10104	0.00000
17	39 Total Tetra-Dioxins	24.62	26.75	6.113e2	8.218e2	0.770	0.74	NO	0.13078	0.13078



Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

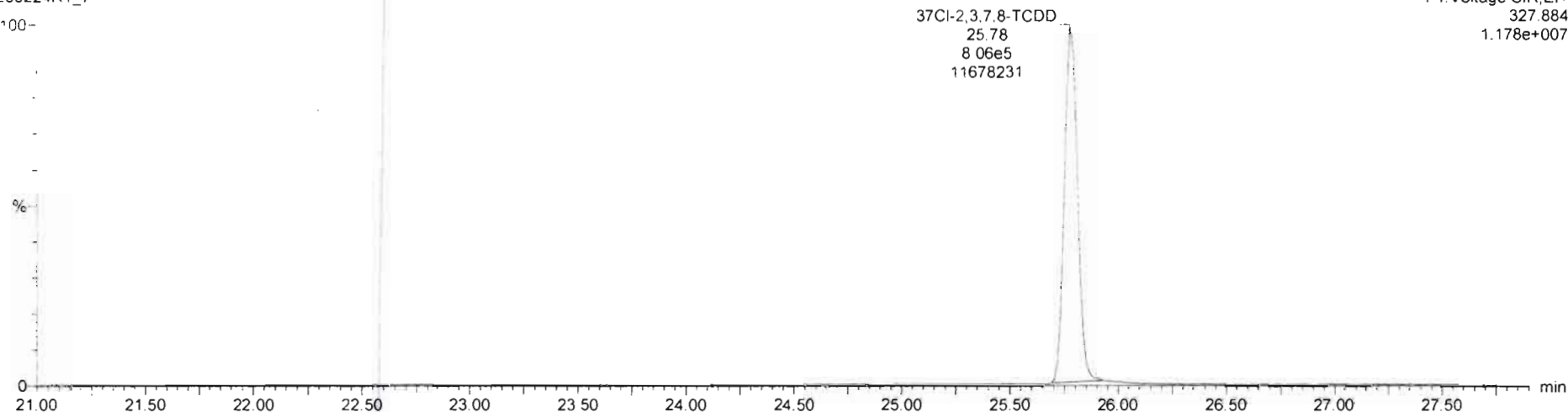
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

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

200224R1_7

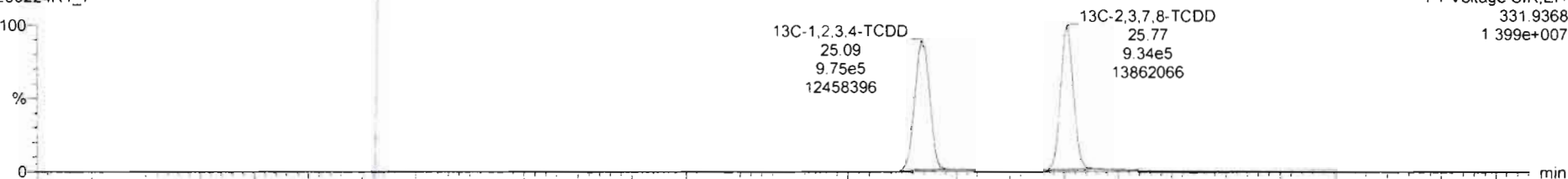
100-



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

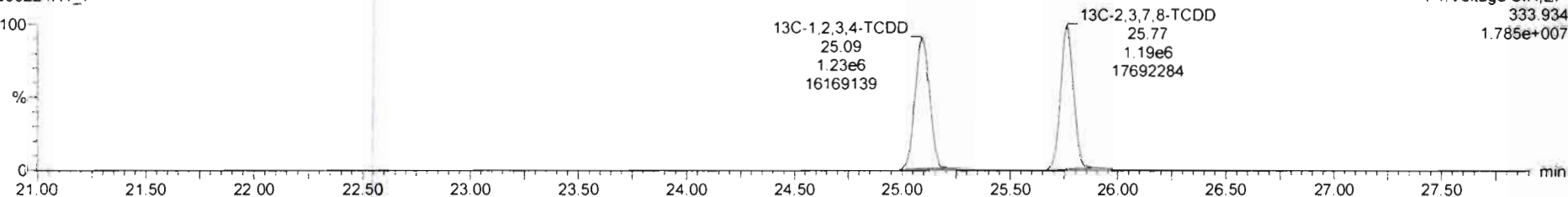
200224R1_7

100



200224R1_7

100



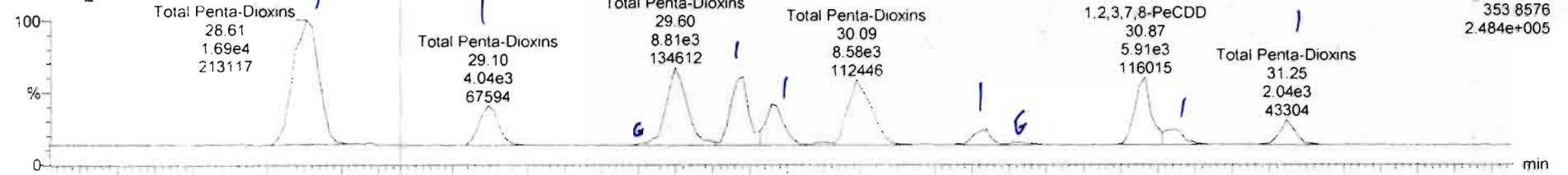
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

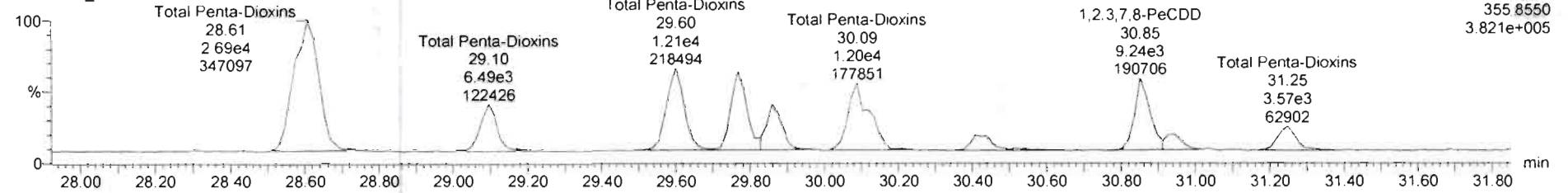
Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

1,2,3,7,8-PeCDD

200224R1_7

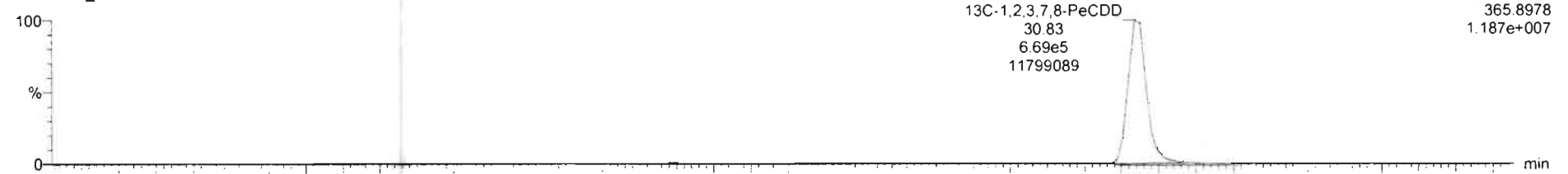


200224R1_7

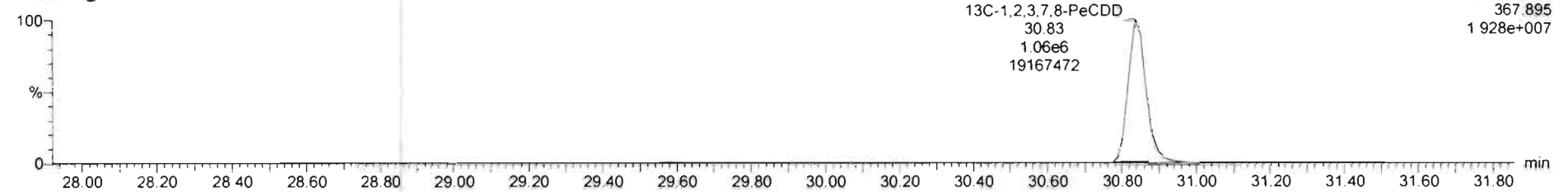


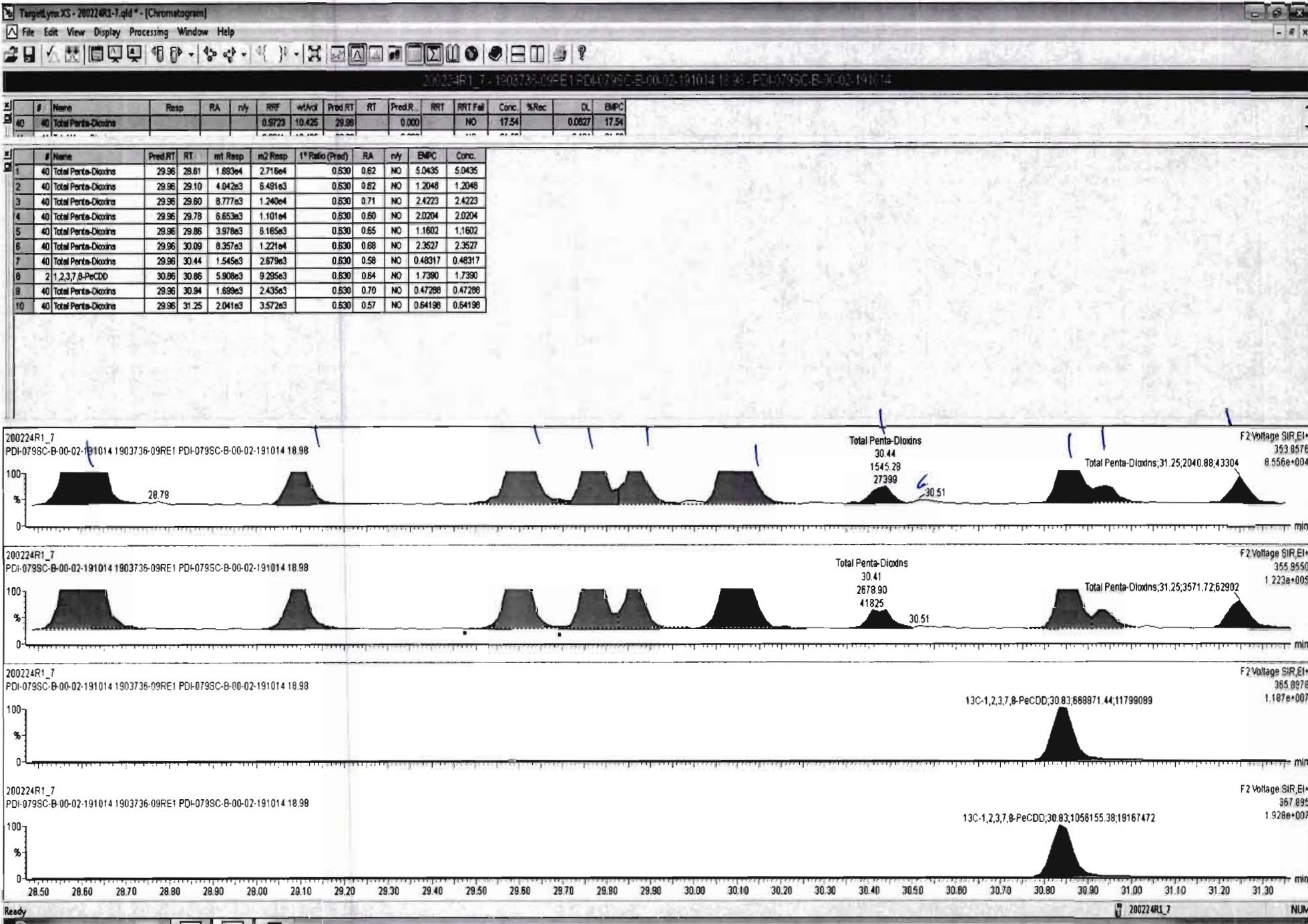
13C-1,2,3,7,8-PeCDD

200224R1_7



200224R1_7





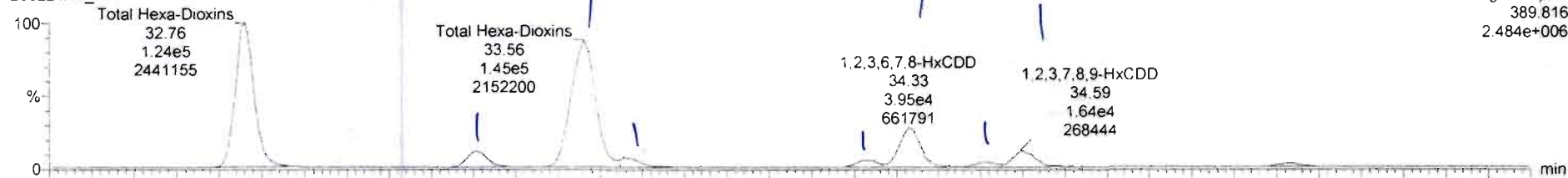
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

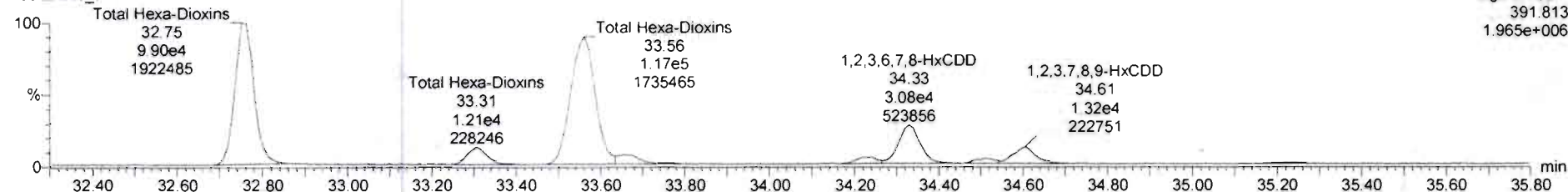
Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

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

200224R1_7

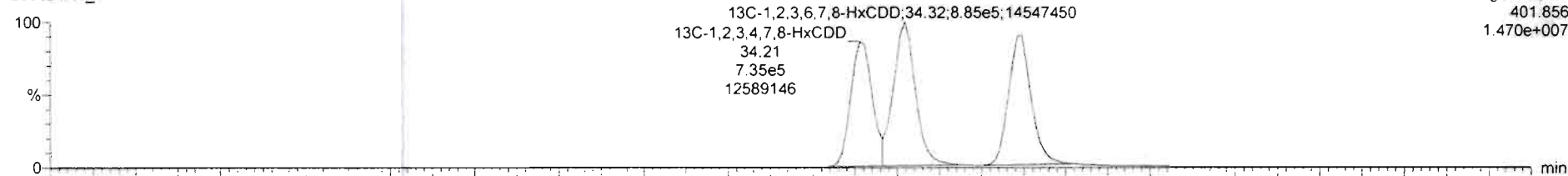


200224R1_7

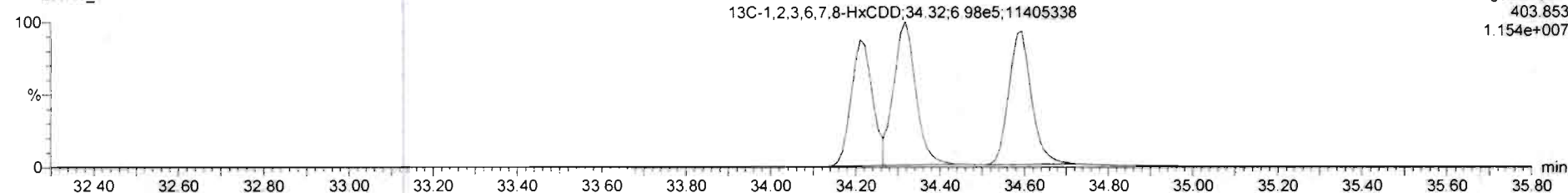


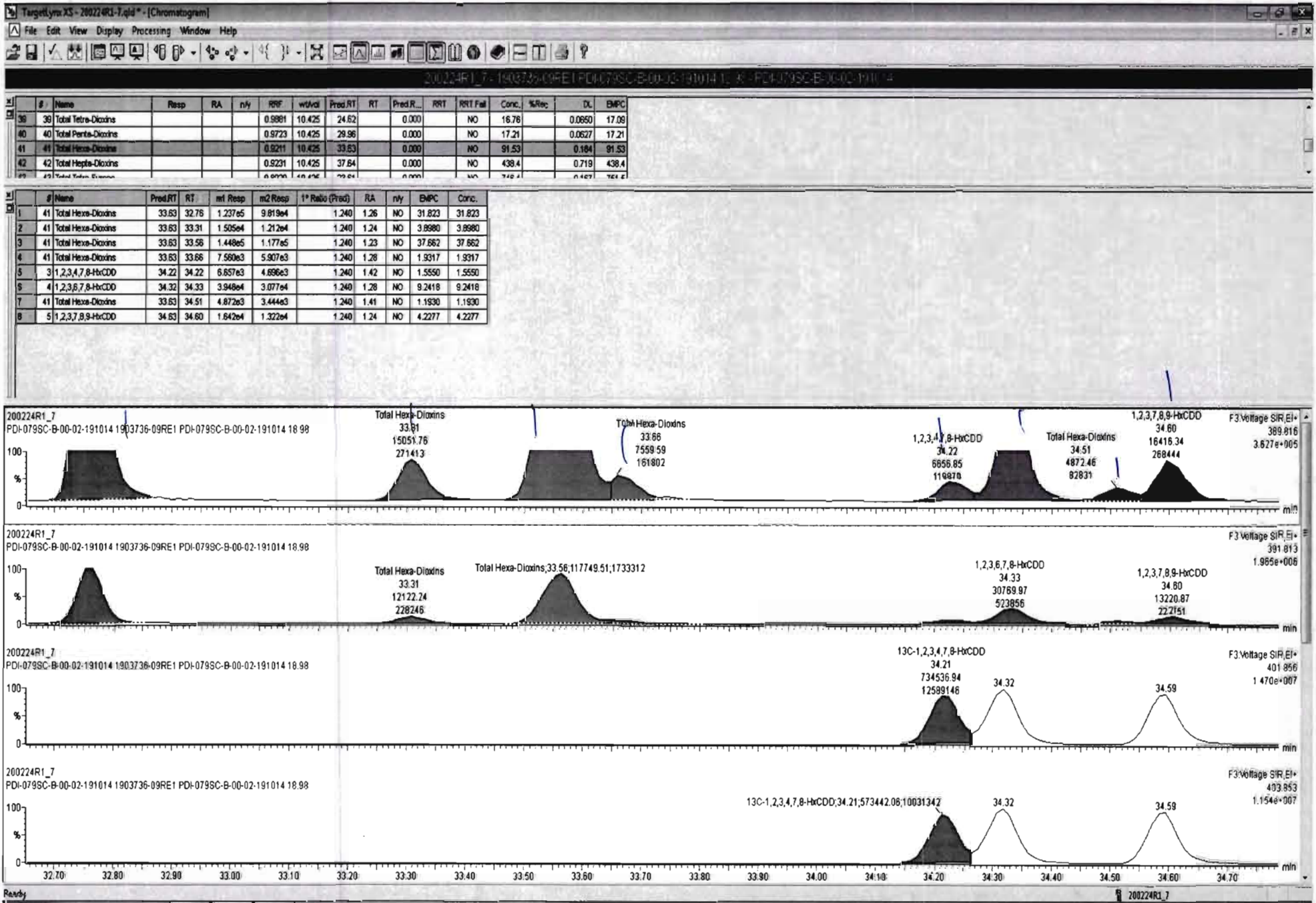
13C-1,2,3,4,7,8-HxCDD

200224R1_7



200224R1_7





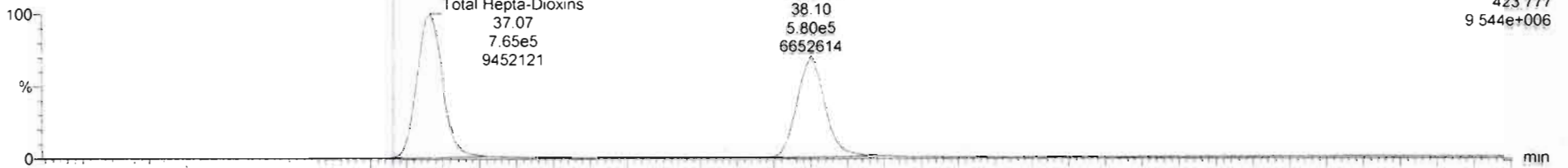
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

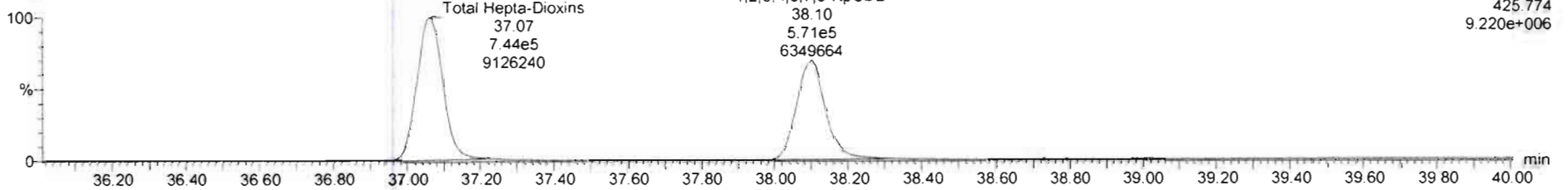
Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

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

200224R1_7

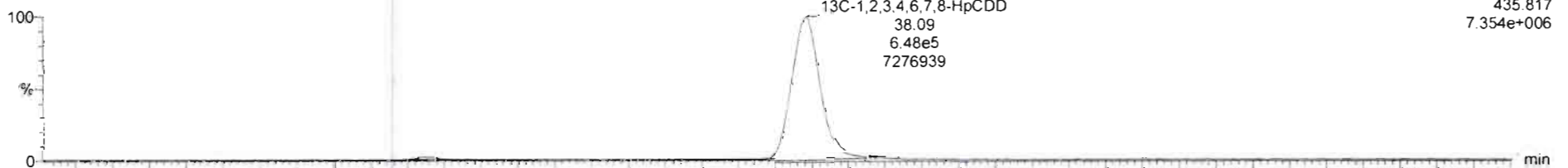


200224R1_7

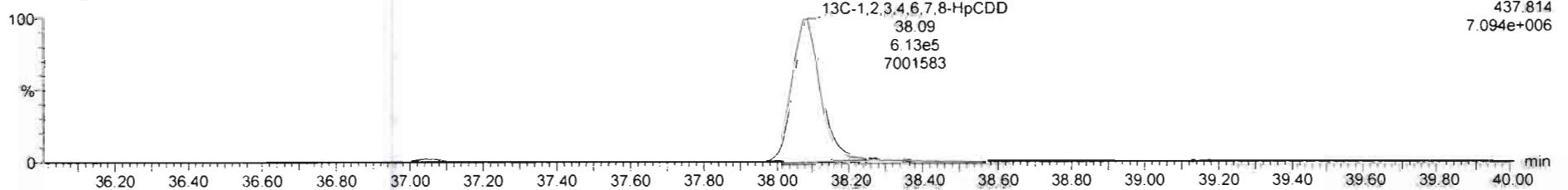


13C-1,2,3,4,6,7,8-HpCDD

200224R1_7



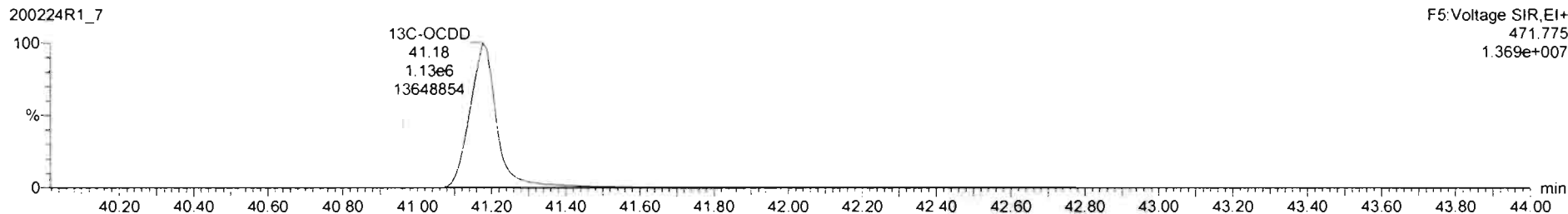
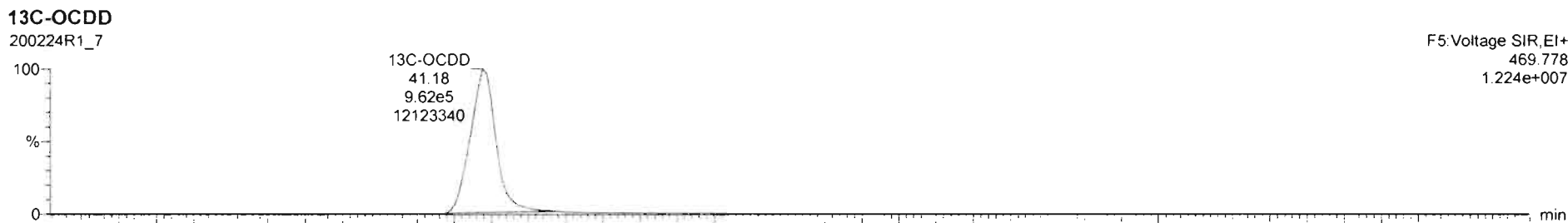
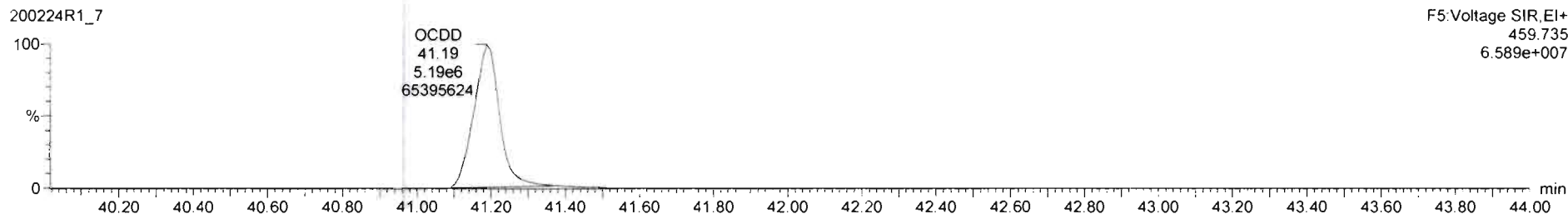
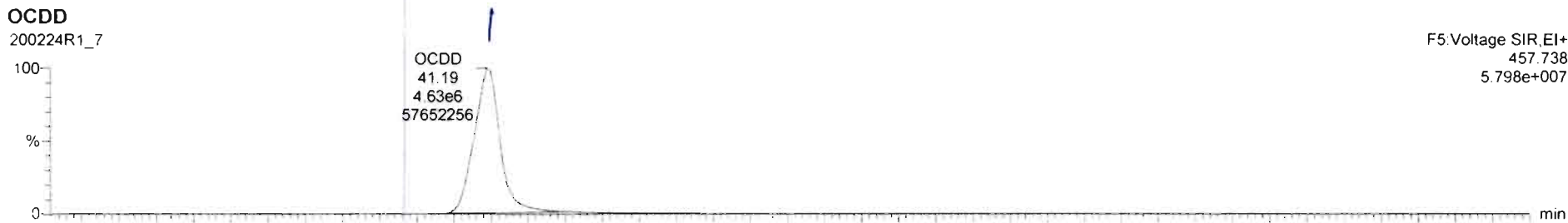
200224R1_7



Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

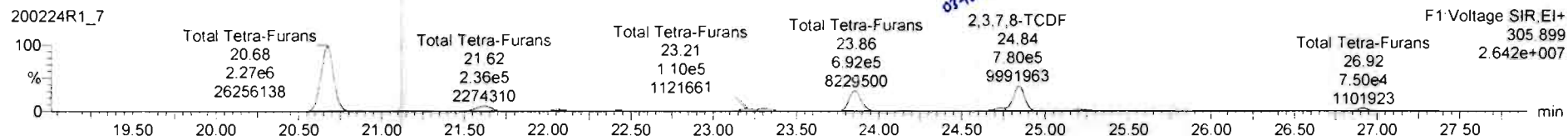
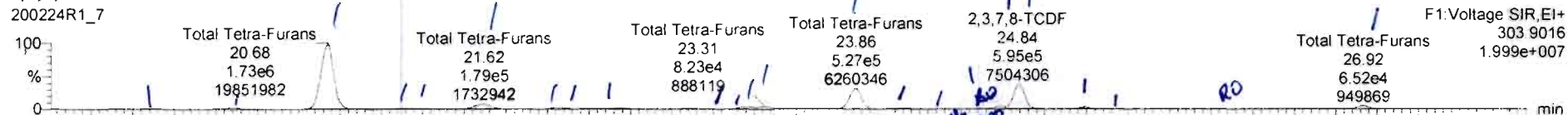


Dataset: Untitled

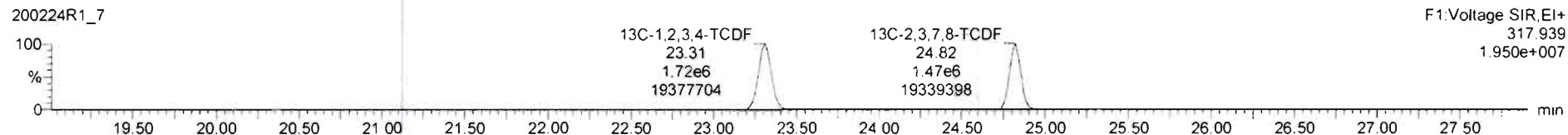
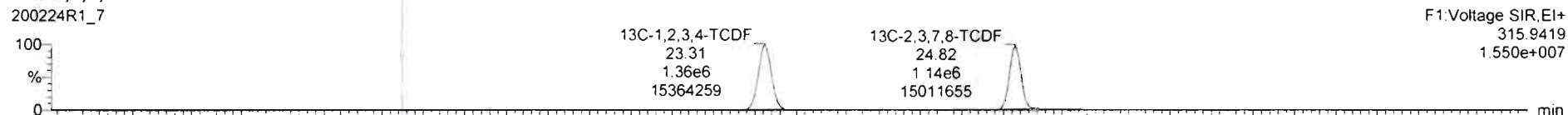
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

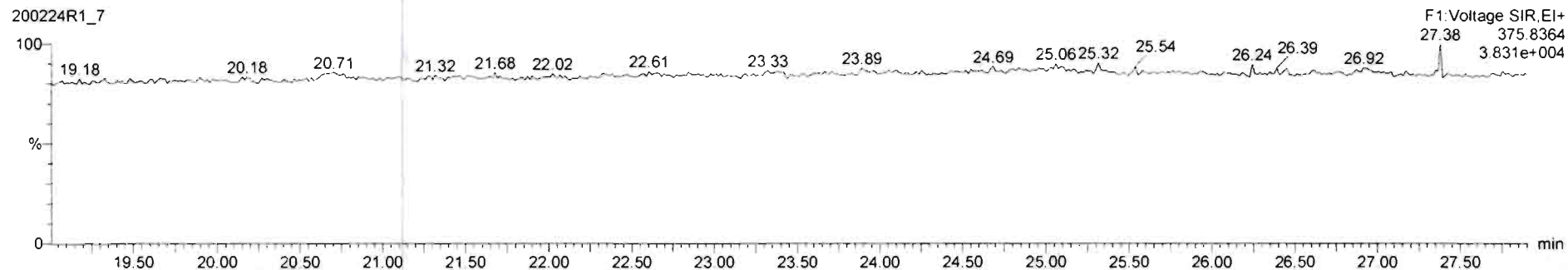
2,3,7,8-TCDF

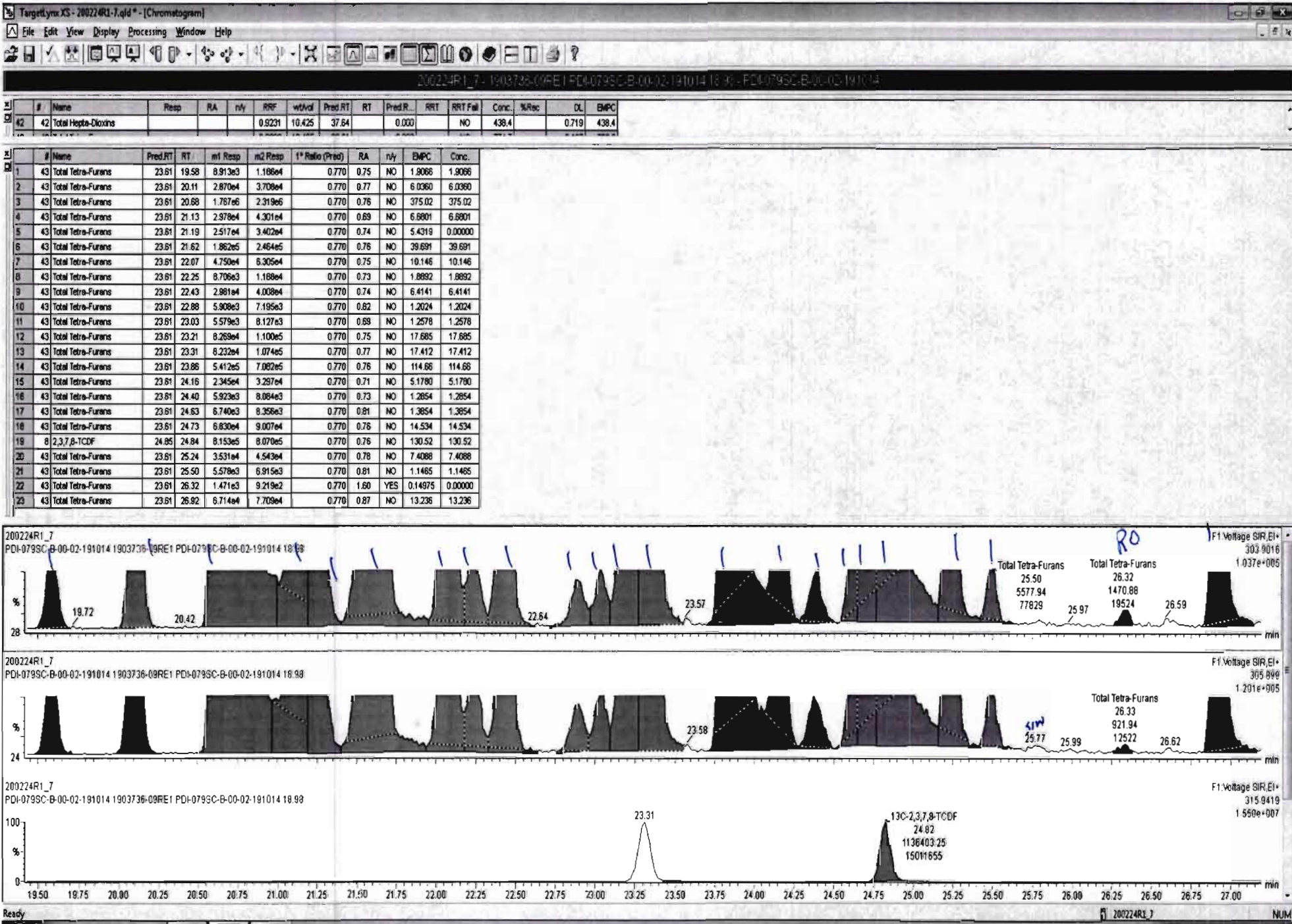


13C-2,3,7,8-TCDF



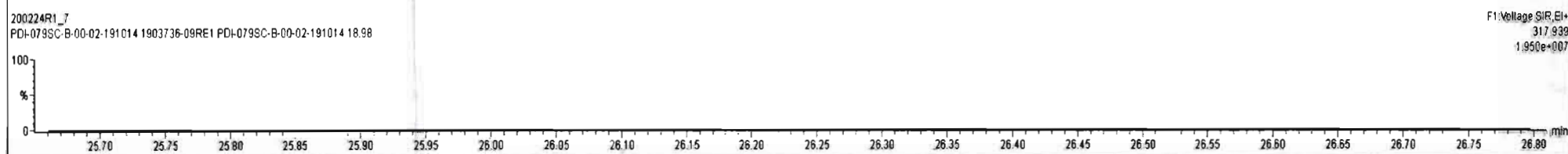
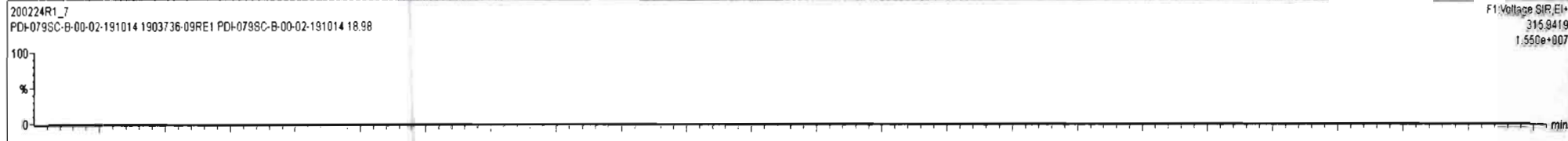
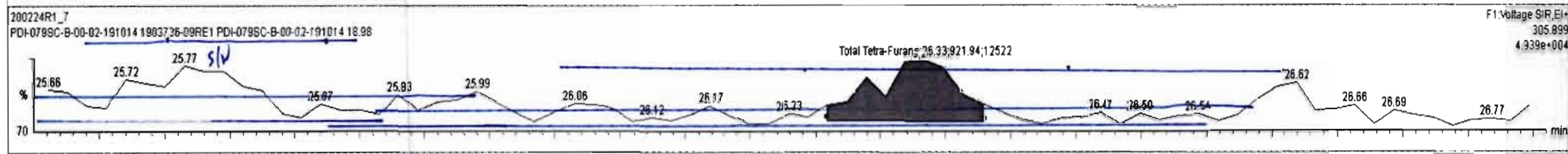
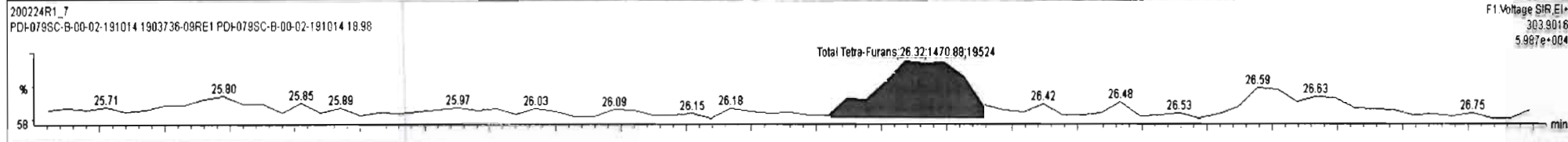
DPE1





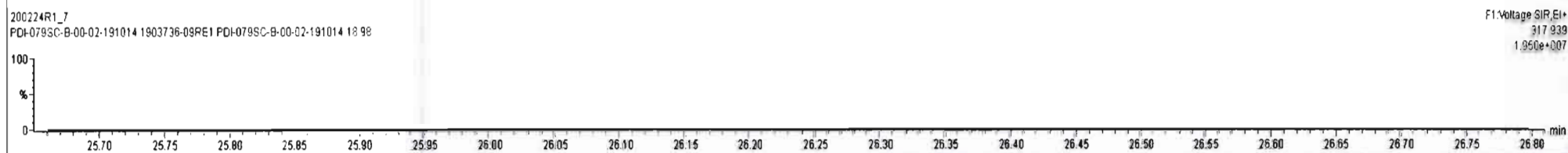
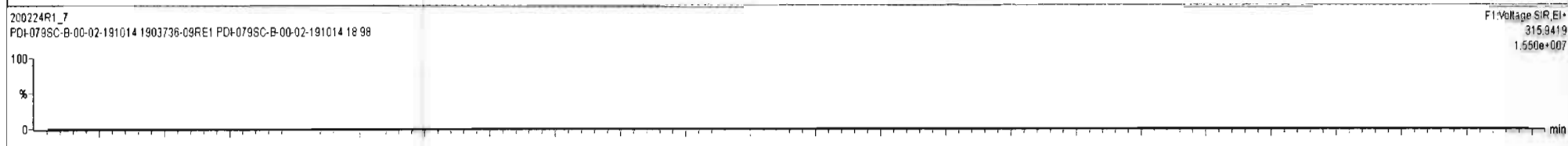
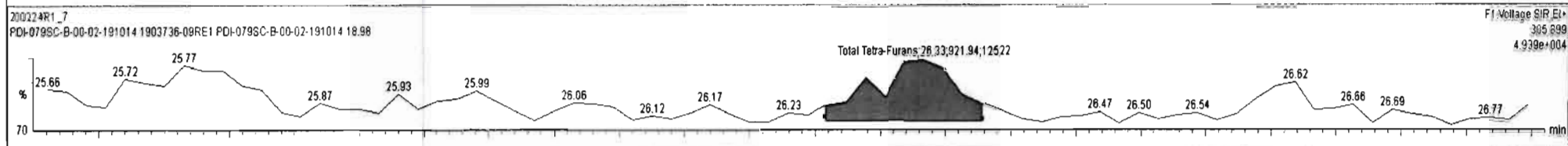
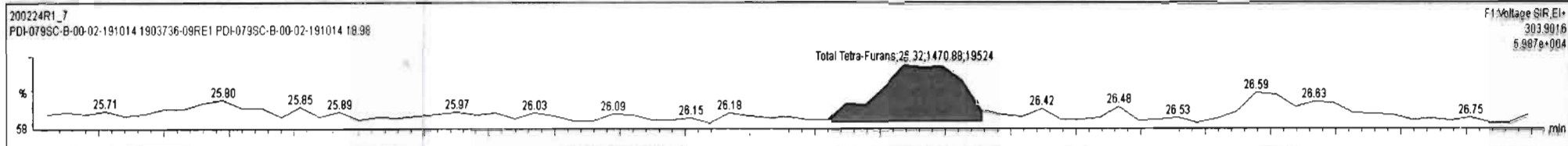
Name	Resp	RA	nly	RF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.80	10.425			775		0.167	780
44 1st Func. Penta-Furans				0.91	10.425			78.7		0.0314	78.7
45 Total Penta-Furans				0.91	10.425			435		0.227	435

Name	RT	m1 Resp	m2 Resp	1* Ratio (P...	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	19.58	8.913e3	1.186e4	0.770	0.75	NO	1.9070	1.9066
2 Total Tetra-Furans	20.11	2.870e4	3.706e4	0.770	0.77	NO	5.0360	6.0360
3 Total Tetra-Furans	20.68	1.787e6	2.319e6	0.770	0.76	NO	375.02	375.02
4 Total Tetra-Furans	21.13	2.978e4	4.301e4	0.770	0.69	NO	6.6800	6.6801
5 Total Tetra-Furans	21.19	2.517e4	3.402e4	0.770	0.74	NO	5.4320	0.00000
6 Total Tetra-Furans	21.62	1.862e5	2.464e5	0.770	0.76	NO	39.691	39.691
7 Total Tetra-Furans	22.07	4.750e4	6.305e4	0.770	0.75	NO	10.146	10.146
8 Total Tetra-Furans	22.25	8.706e3	1.186e4	0.770	0.73	NO	1.8890	1.8892
9 Total Tetra-Furans	22.43	2.961e4	4.008e4	0.770	0.74	NO	6.4140	6.4141
10 Total Tetra-Furans	22.88	5.908e3	7.195e3	0.770	0.82	NO	1.2020	1.2024
11 Total Tetra-Furans	23.03	5.579e3	8.127e3	0.770	0.69	NO	1.2580	1.2578
12 Total Tetra-Furans	23.21	8.269e4	1.100e5	0.770	0.75	NO	17.685	17.685
13 Total Tetra-Furans	23.31	8.232e4	1.074e5	0.770	0.77	NO	17.412	17.412



Name	Resp	RA	n/y	R/F	w/vol	RT	RR	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.80	10.425			775		0.167	780
44 1st Func. Penta-Furans				0.91	10.425			78.7		0.0314	78.7
45 Total Penta-Furans				0.91	10.425			435		0.227	435

Name	RT	m1 Resp	m2 Resp	1* Ratio (P...	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.58	8.913e3	1.188e4	0.770	0.75	NO	1.9070	1.9066
2 Total Tetra-Furans	20.11	2.870e4	3.708e4	0.770	0.77	NO	6.0360	6.0360
3 Total Tetra-Furans	20.68	1.767e6	2.319e6	0.770	0.76	NO	375.02	375.02
4 Total Tetra-Furans	21.13	2.979e4	4.301e4	0.770	0.69	NO	6.6800	6.6801
5 Total Tetra-Furans	21.19	2.517e4	3.402e4	0.770	0.74	NO	5.4320	0.00000
6 Total Tetra-Furans	21.62	1.862e5	2.464e5	0.770	0.76	NO	39.691	39.691
7 Total Tetra-Furans	22.07	4.750e4	6.305e4	0.770	0.75	NO	10.146	10.146
8 Total Tetra-Furans	22.25	8.706e3	1.188e4	0.770	0.73	NO	1.8890	1.8892
9 Total Tetra-Furans	22.43	2.981e4	4.008e4	0.770	0.74	NO	6.4140	6.4141
10 Total Tetra-Furans	22.88	5.908e3	7.195e3	0.770	0.82	NO	1.2020	1.2024
11 Total Tetra-Furans	23.03	5.579e3	8.127e3	0.770	0.69	NO	1.2580	1.2578
12 Total Tetra-Furans	23.21	8.269e4	1.100e5	0.770	0.75	NO	17.685	17.685
13 Total Tetra-Furans	23.31	8.232e4	1.074e5	0.770	0.77	NO	17.412	17.412



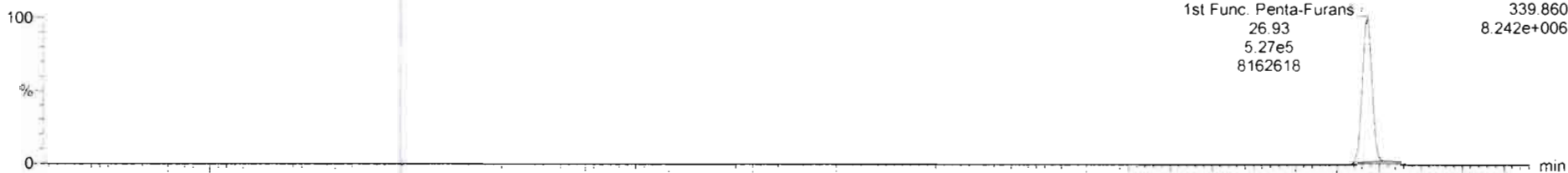
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

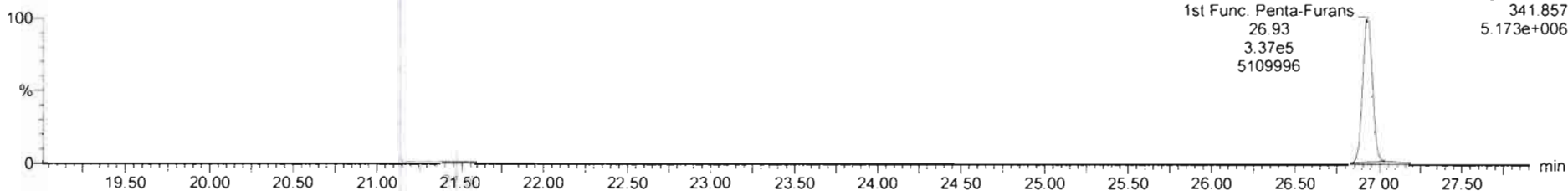
Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

1st Func. Penta-Furans

200224R1_7

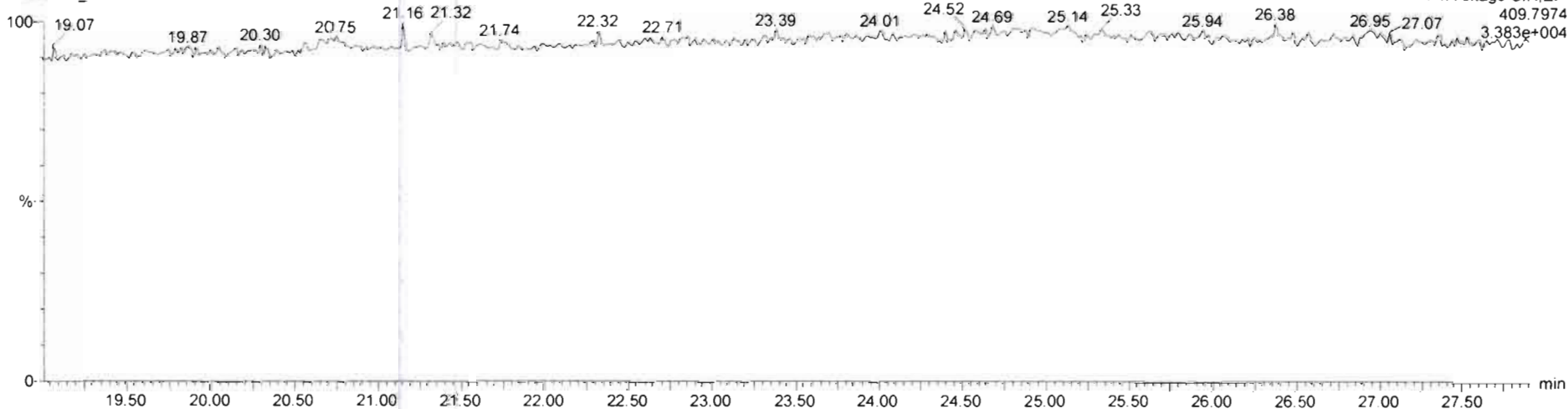


200224R1_7



DPE6

200224R1_7

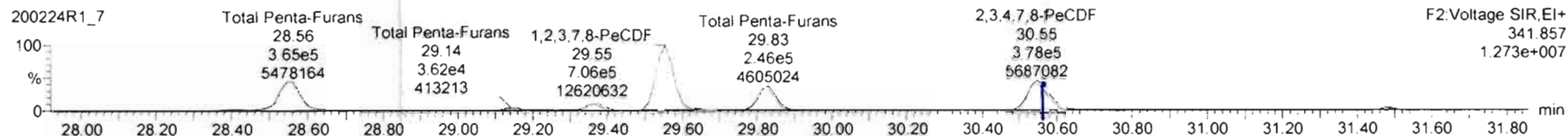
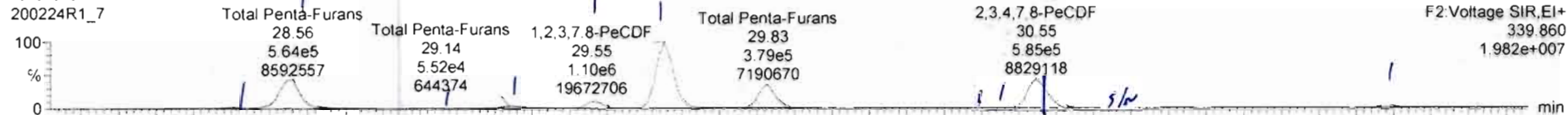


Dataset: Untitled

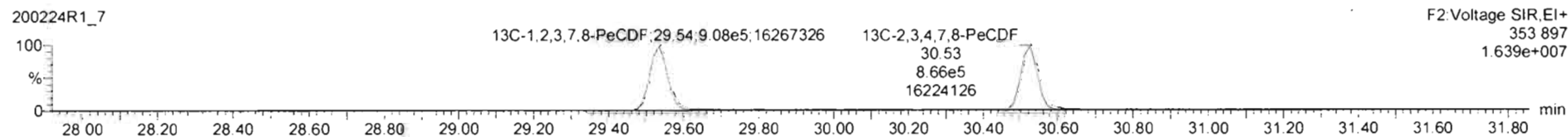
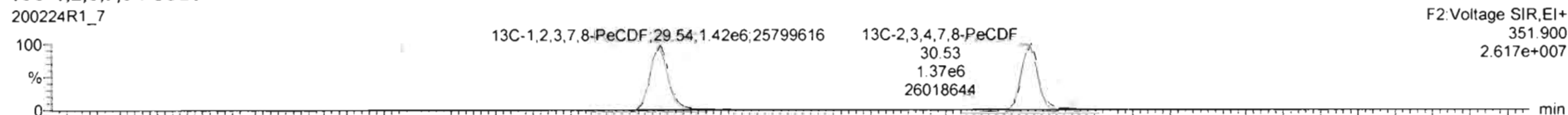
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

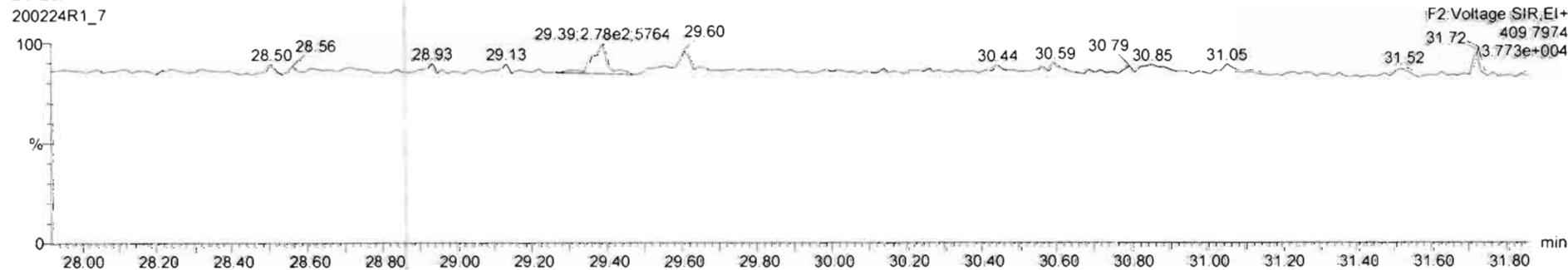
1,2,3,7,8-PeCDF

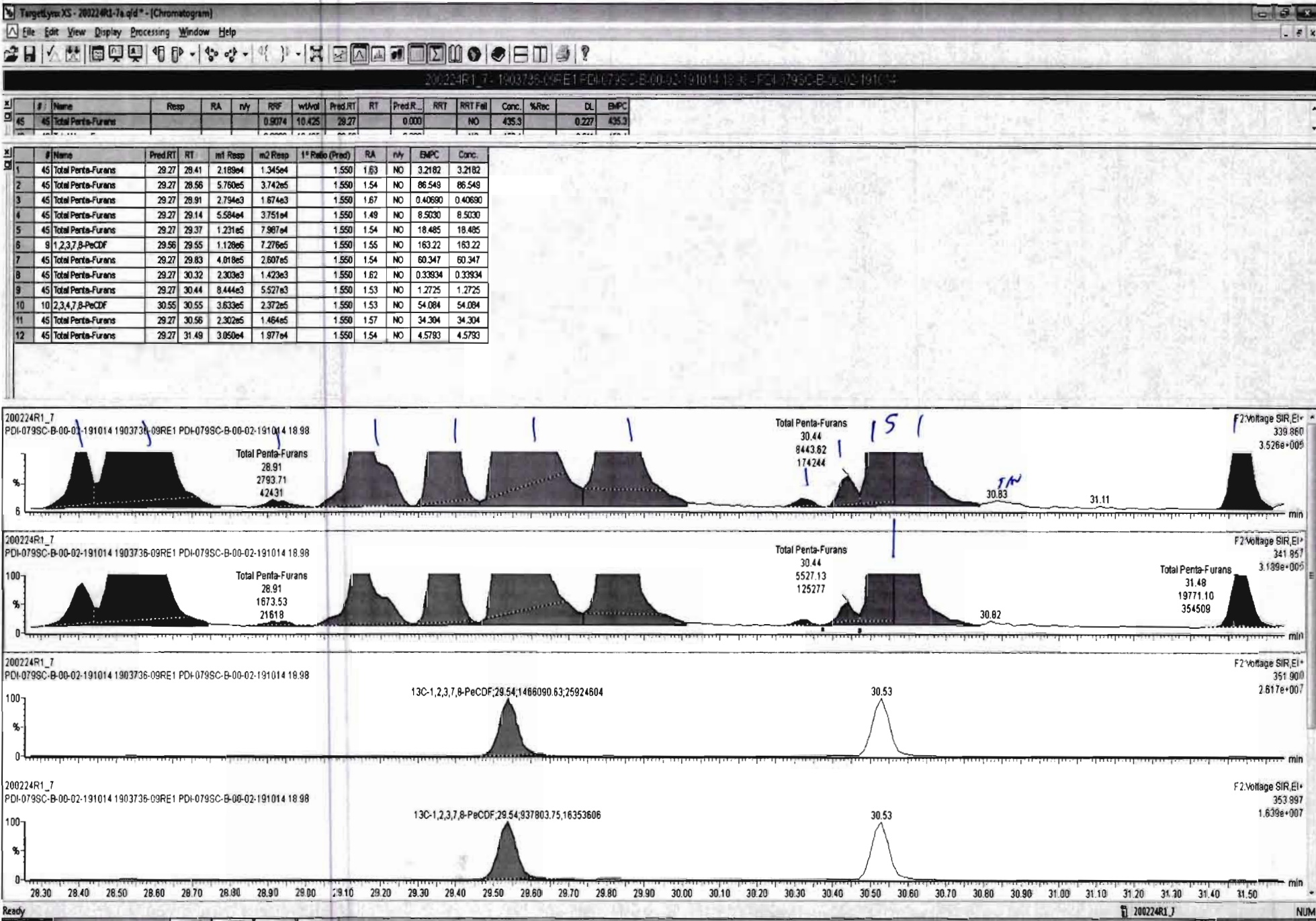


13C-1,2,3,7,8-PeCDF



DPE2

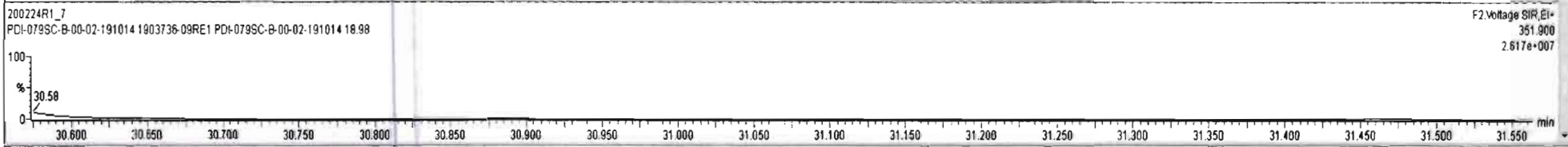
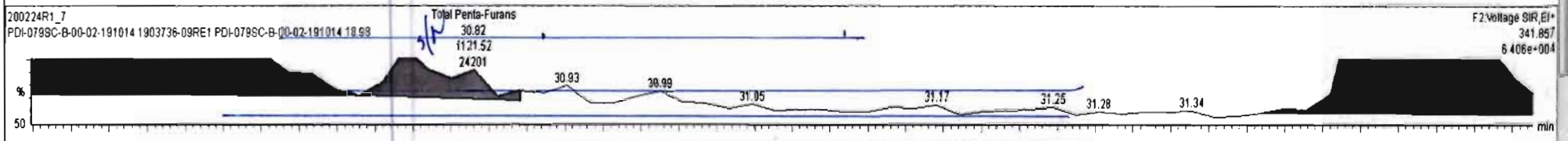
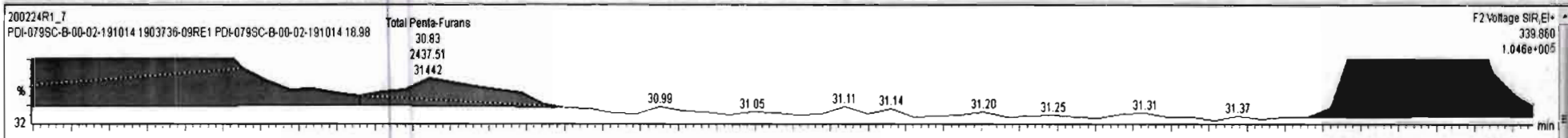




200224R1_7 - 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98 - PDI-079SC-B-00-02-191014

#	Name	Resp	RA	n/y	RRF	wUval	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	10.425	23.61		0.000		NO	766.7		0.167	772.7
44	1st Func. Penta-Furans				0.9074	10.425	27.09		0.000		NO	79.97		0.0315	79.97
45	Total Penta-Furans				0.9074	10.425	28.27		0.000		NO	441.4		0.228	441.7
46	Total Hexa-Furans				0.8982	10.425	33.56		0.000		NO	442.9		0.211	442.9
47	Total Hepta-Furans				0.9044	10.425	37.03		0.000		NO	442.9		0.211	442.9

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	29.27	28.41	2.052e4	1.331e4	1.550	1.54	NO	3.1304	3.1304
2	Total Penta-Furans	29.27	28.56	5.699e5	3.723e5	1.550	1.53	NO	87.184	87.184
3	Total Penta-Furans	29.27	28.91	2.454e3	1.450e3	1.550	1.69	NO	0.36117	0.36117
4	Total Penta-Furans	29.27	28.14	5.522e4	3.751e4	1.550	1.47	NO	8.5805	8.5805
5	Total Penta-Furans	29.27	29.37	1.221e5	7.987e4	1.550	1.53	NO	18.694	18.694
6	1,2,3,7-β-PeCDF	29.56	29.55	1.127e6	7.276e5	1.550	1.55	NO	168.20	168.20
7	Total Penta-Furans	29.27	28.83	3.993e5	2.604e5	1.550	1.53	NO	61.044	61.044
8	Total Penta-Furans	29.27	30.32	2.063e3	1.343e3	1.550	1.54	NO	0.31519	0.31519
9	Total Penta-Furans	29.27	30.44	8.443e3	5.443e3	1.550	1.55	NO	1.2650	1.2650
10	2,3,4,7-β-PeCDF	30.56	30.55	5.934e5	3.834e5	1.550	1.55	NO	87.971	87.971
11	Total Penta-Furans	29.27	30.83	2.438e3	1.122e3	1.550	2.17	YES	0.26464	0.00000
12	Total Penta-Furans	29.27	31.49	3.050e4	2.010e4	1.550	1.52	NO	4.6826	4.6826

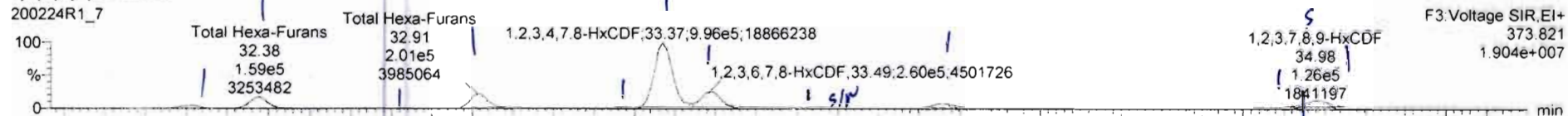


Dataset: Untitled

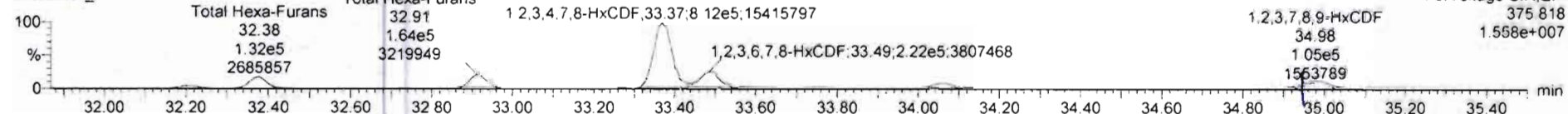
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

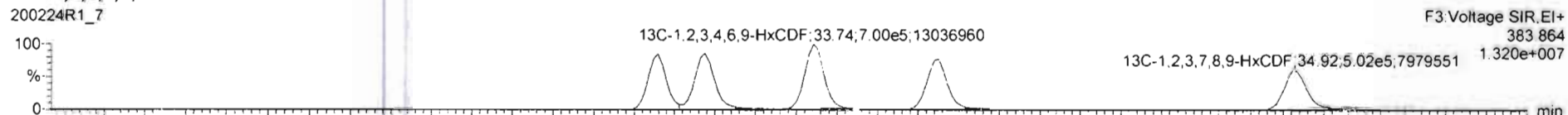
1,2,3,4,7,8-HxCDF



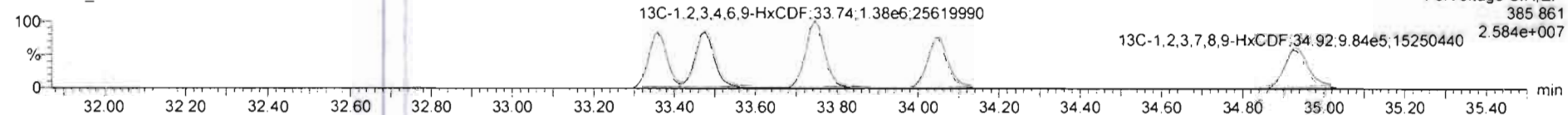
200224R1_7



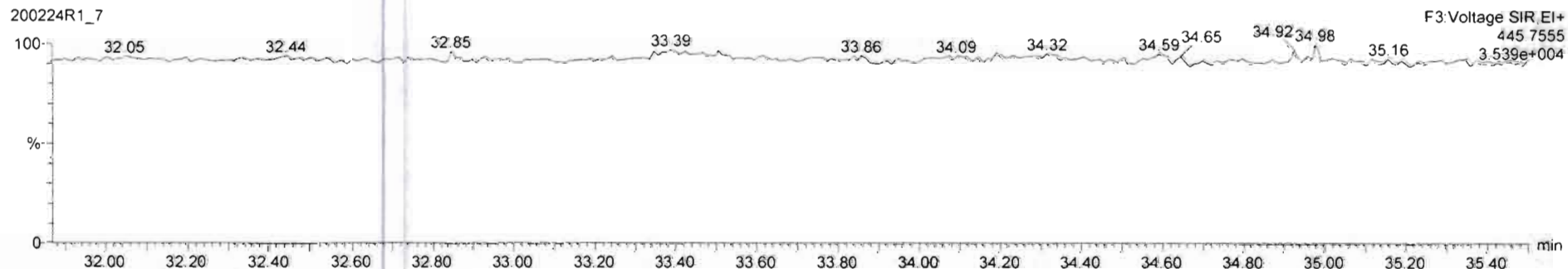
13C-1,2,3,4,7,8-HxCDF



200224R1_7

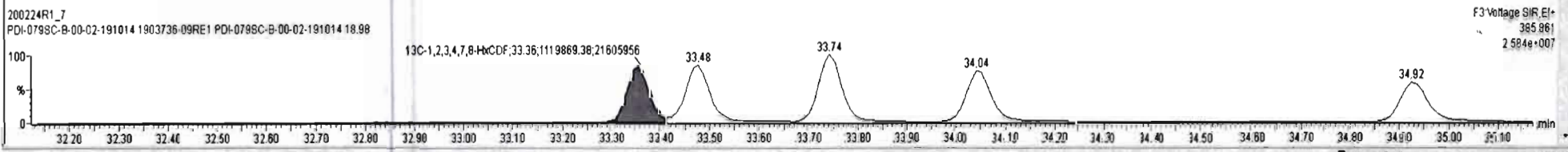
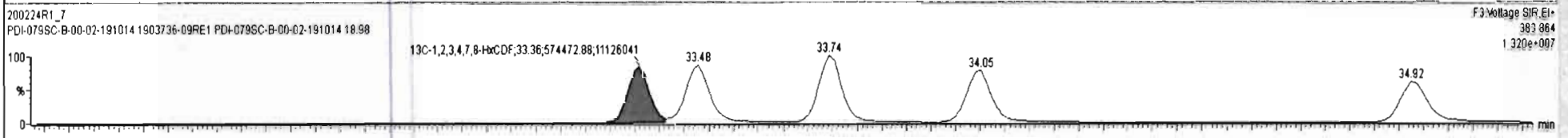
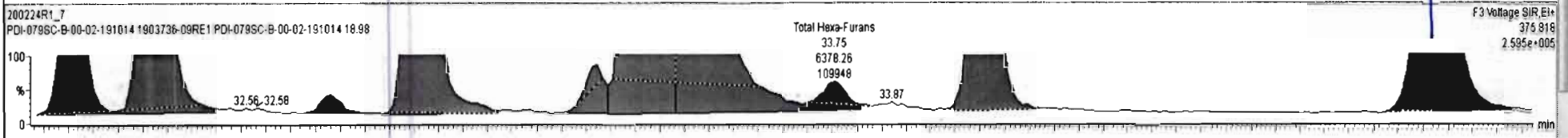
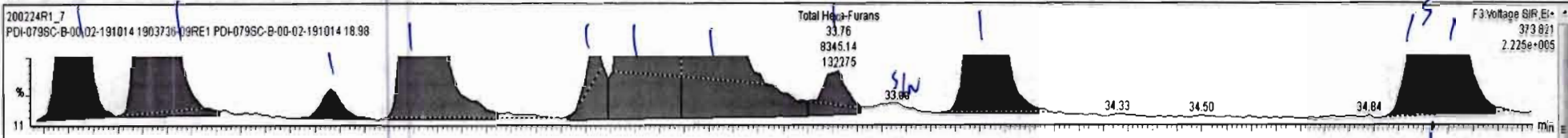


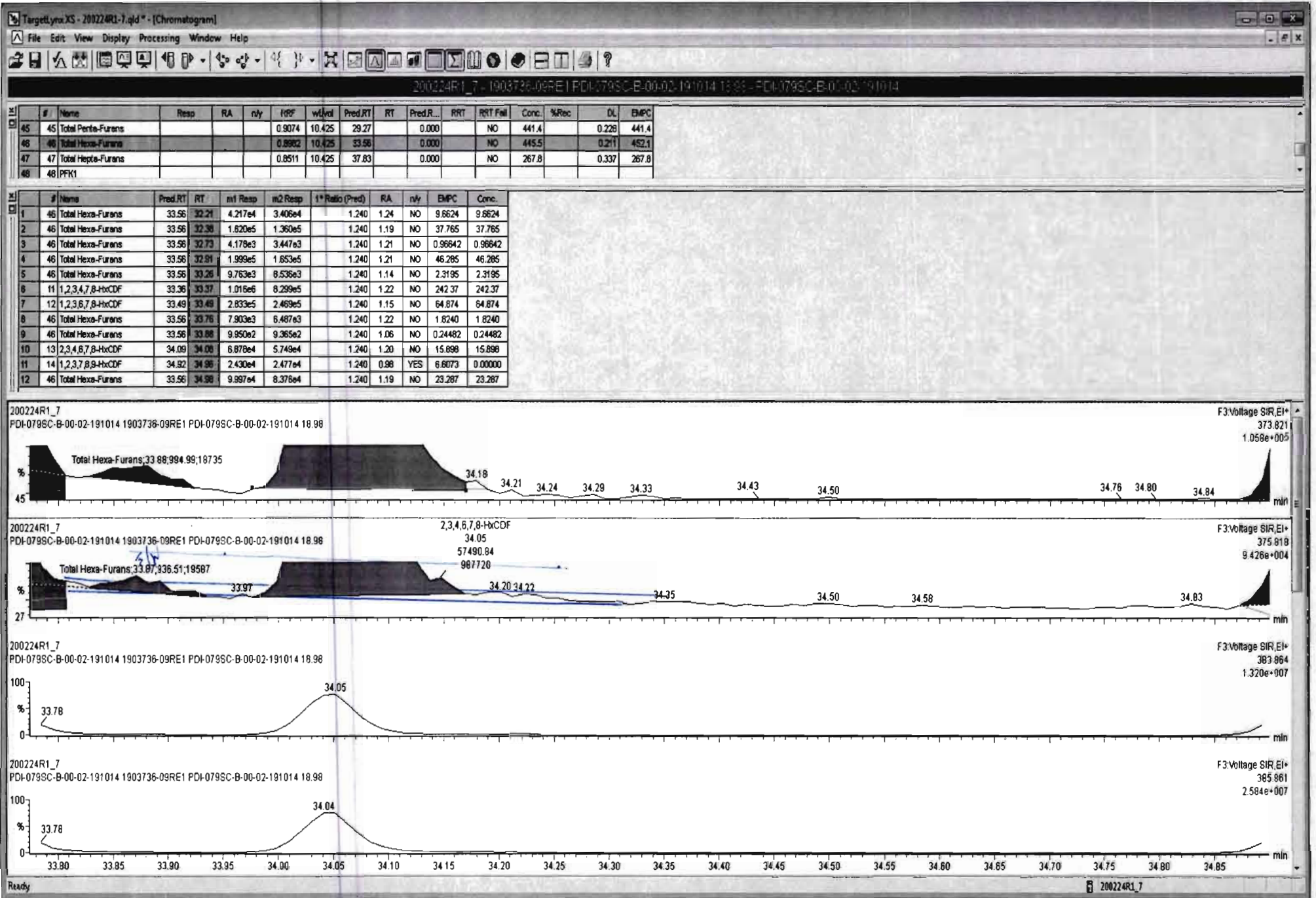
DPE3



#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.425	29.27		0.000		NO	435.3		0.227	435.3

#	Name	Pred RT	RT	wt Resp	m2 Resp	I ¹ Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.21	4.217e4	3.406e4	1.240	1.24	NO	9.6624	9.6624
2	46 Total Hexa-Furans	33.56	32.38	1.616e5	1.255e5	1.240	1.19	NO	37.661	37.661
3	46 Total Hexa-Furans	33.56	32.73	4.178e3	3.447e3	1.240	1.21	NO	0.96642	0.96642
4	46 Total Hexa-Furans	33.56	32.91	2.016e5	1.653e5	1.240	1.22	NO	46.503	46.503
5	46 Total Hexa-Furans	33.56	33.26	1.002e4	8.536e3	1.240	1.17	NO	2.3515	2.3515
6	11 1,2,3,4,7,8-HxCDF	33.36	33.37	1.016e6	8.259e5	1.240	1.22	NO	242.36	242.36
7	12 1,2,3,6,7,8-HxCDF	33.49	33.49	2.840e5	2.463e5	1.240	1.15	NO	64.672	64.672
8	46 Total Hexa-Furans	33.56	33.76	8.345e3	6.378e3	1.240	1.31	NO	1.8662	1.8662
9	13 2,3,4,6,7,8-HxCDF	34.09	34.06	6.958e4	5.760e4	1.240	1.21	NO	16.013	16.013
10	14 1,2,3,7,8,9-HxCDF	34.92	34.97	3.977e4	3.542e4	1.240	1.12	NO	11.317	11.317
11	46 Total Hexa-Furans	33.56	34.98	6.607e4	7.034e4	1.240	1.22	NO	19.825	19.825





Dataset: Untitled

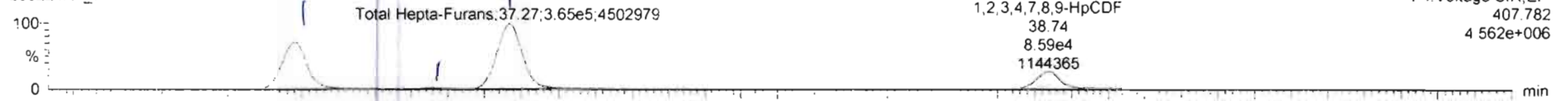
Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

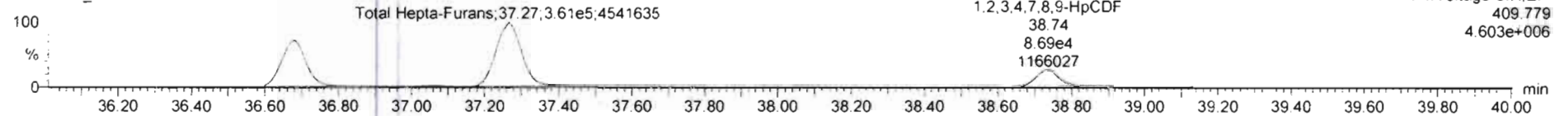
Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

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

200224R1_7

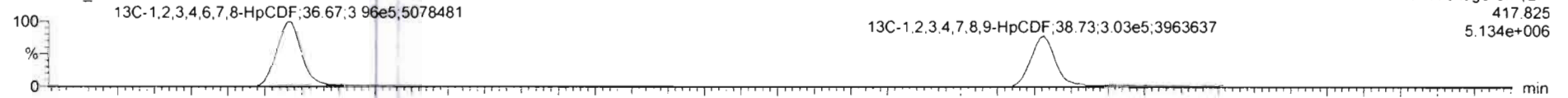


200224R1_7

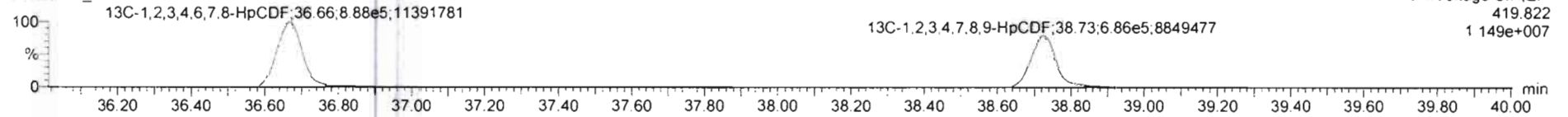


13C-1,2,3,4,6,7,8-HpCDF

200224R1_7

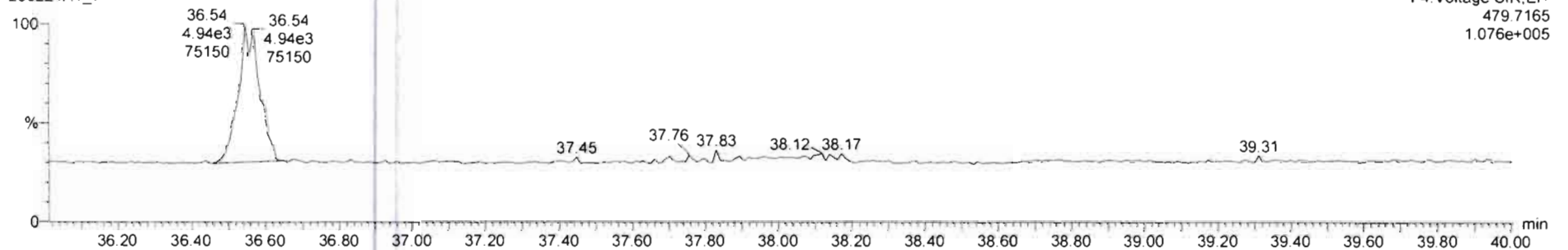


200224R1_7



DPE4

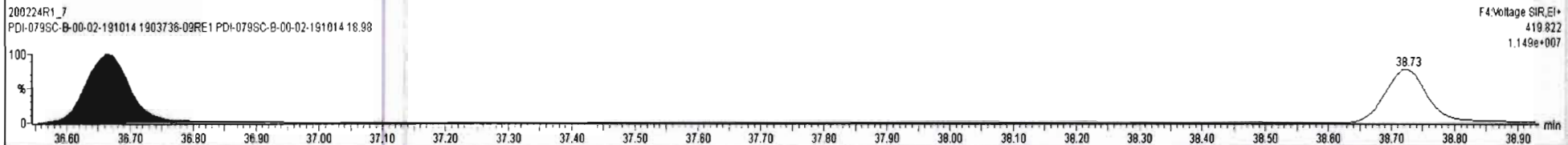
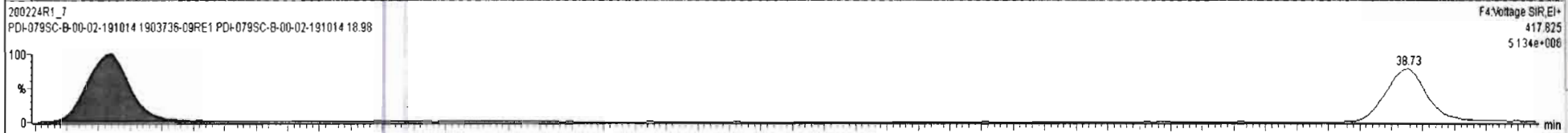
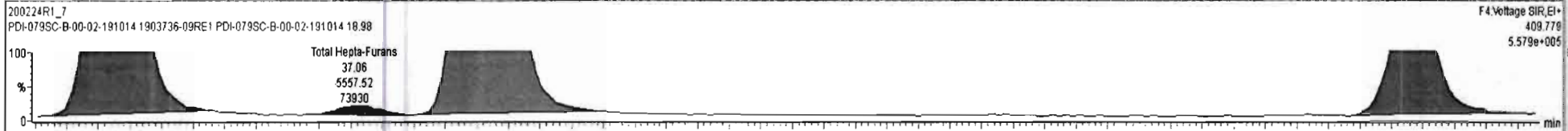
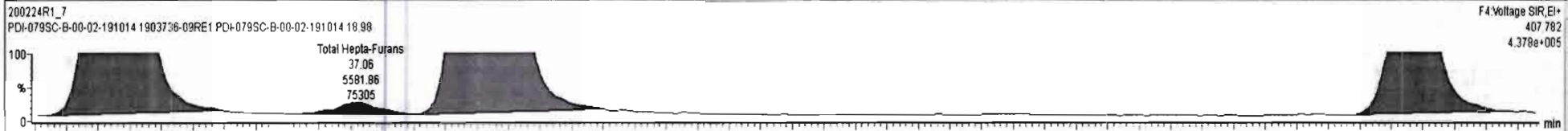
200224R1_7



200224R1_7 - 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98 - PDI-079SC-B-00-02-191014

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
47	Total Hepta-Furans				0.8511	10.425	37.63		0.000		NO	267.8		0.337	267.8

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.71	36.69	2.490e5	2.486e5	1.040	1.00	NO	87.365	87.365
2	Total Hepta-Furans	37.83	37.06	5.592e3	5.559e3	1.040	1.00	NO	2.2101	2.2101
3	Total Hepta-Furans	37.83	37.27	3.648e5	3.613e5	1.040	1.01	NO	144.02	144.02
4	1,2,3,4,7,8,9-HpCDF	38.73	38.74	8.587e4	8.695e4	1.040	0.99	NO	34.231	34.231

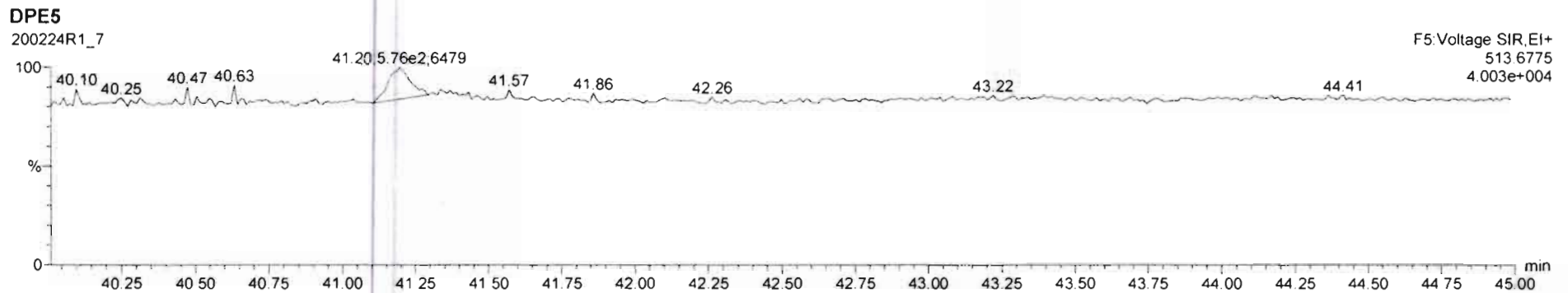
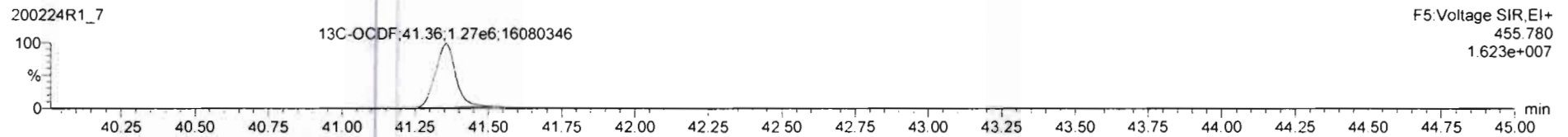
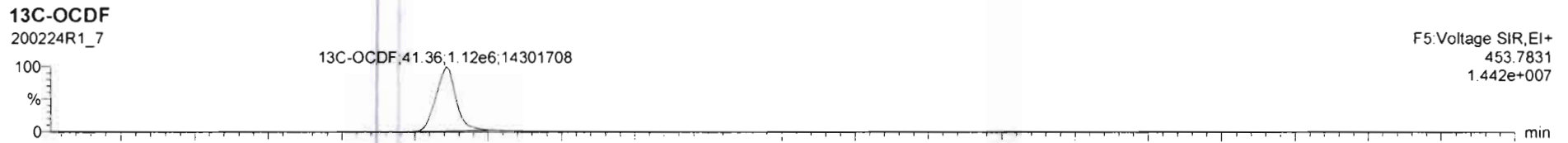
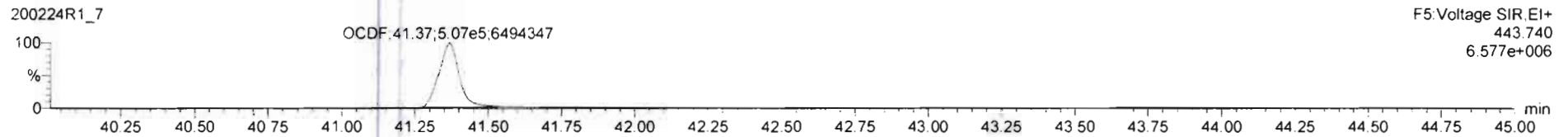


Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

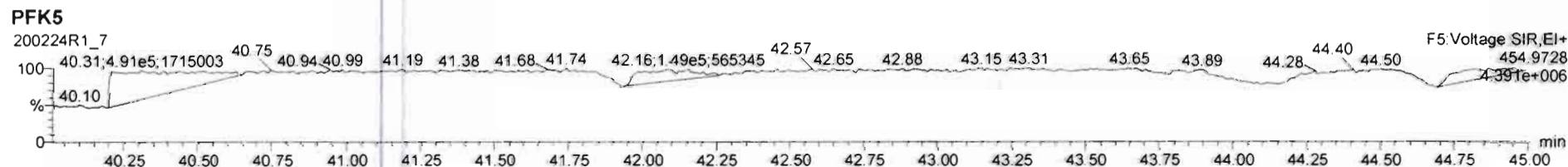
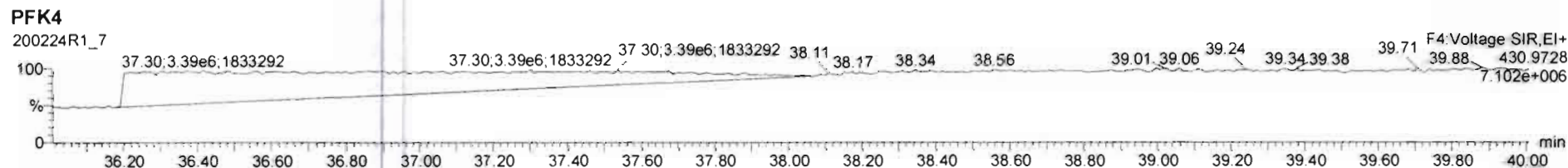
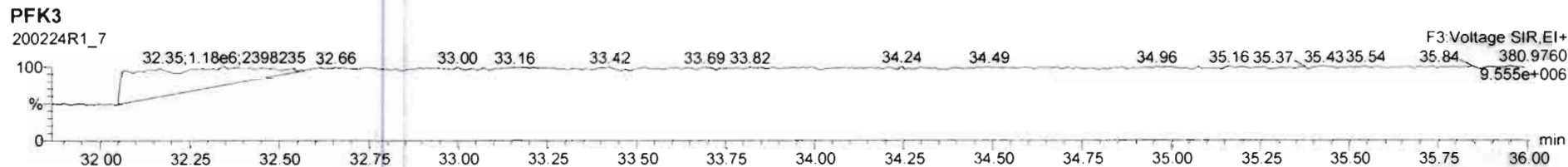
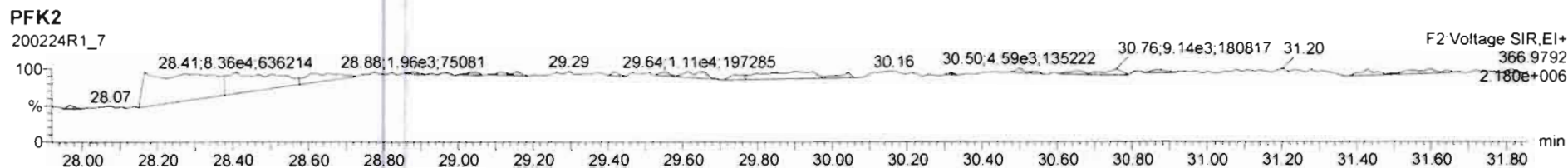
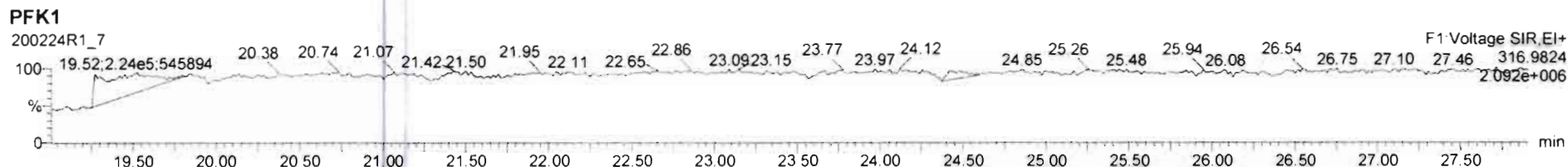
Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014



Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_7, Date: 24-Feb-2020, Time: 21:46:49, ID: 1903736-09RE1 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014



Dataset: U:\VG12.PRO\Results\200315R2\200315R2-11.qld

Last Altered: Monday, March 16, 2020 12:23:43 Pacific Daylight Time
Printed: Monday, March 16, 2020 12:24:17 Pacific Daylight Time

GRB 03/16/2020

03/27/2020

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

* SEE DIL

Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	6.08e3	0.71	NO	0.983	10.000	26.096	26.08	1.001	1.001	2.2729		0.674	2.27
2	2 1,2,3,7,8-PeCDD	8.79e3	0.61	NO	0.921	10.000	31.101	31.09	1.001	1.000	3.9427		0.124	3.94
3	3 1,2,3,4,7,8-HxCDD	1.04e4	1.25	NO	1.13	10.000	34.491	34.49	1.000	1.000	5.3674		0.399	5.37
4	4 1,2,3,6,7,8-HxCDD	5.55e4	1.28	NO	0.984	10.000	34.587	34.60	1.000	1.000	27.951		0.400	28.0
5	5 1,2,3,7,8,9-HxCDD	2.35e4	1.30	NO	0.967	10.000	34.863	34.86	1.000	1.000	12.980		0.397	13.0
6	6 1,2,3,4,6,7,8-HpCDD	1.96e6	1.03	NO	1.01	10.000	38.347	38.35	1.000	1.000	1252.7		1.94	1250
7	7 OCDD	1.51e7	0.89	NO	1.05	10.000	41.531	41.54	1.000	1.000	15285 EX		4.22	15300
8	8 2,3,7,8-TCDF	6.32e5	0.75	NO	0.915	10.000	25.102	25.11	1.001	1.001	248.02 (2+1)		0.531	248
9	9 1,2,3,7,8-PeCDF	1.35e6	1.55	NO	0.959	10.000	29.818	29.81	1.001	1.001	428.68		0.435	429
10	10 2,3,4,7,8-PeCDF	1.02e5	1.58	NO	1.00	10.000	30.820	30.83	1.001	1.001	33.516		0.398	33.5
11	11 1,2,3,4,7,8-HxCDF	1.78e6	1.21	NO	1.04	10.000	33.629	33.64	1.000	1.000	767.73		0.538	768
12	12 1,2,3,6,7,8-HxCDF	5.06e5	1.22	NO	1.01	10.000	33.745	33.76	1.000	1.001	212.04		0.556	212
13	13 2,3,4,6,7,8-HxCDF	1.13e5	1.21	NO	1.09	10.000	34.344	34.33	1.001	1.001	49.299		0.618	49.3
14	14 1,2,3,7,8,9-HxCDF	1.18e5	1.21	NO	1.03	10.000	35.194	35.24	1.000	1.001	63.418		0.737	63.4
15	15 1,2,3,4,6,7,8-HpCDF	7.87e5	1.01	NO	1.05	10.000	36.946	36.93	1.001	1.001	456.17		1.02	456
16	16 1,2,3,4,7,8,9-HpCDF	2.04e5	0.99	NO	1.21	10.000	38.975	38.99	1.000	1.000	146.95		1.28	147
17	17 OCDF	1.24e6	0.90	NO	0.947	10.000	41.702	41.71	1.000	1.000	1016.8		1.09	1020
18	18 13C-2,3,7,8-TCDD	5.44e5	0.76	NO	1.18	10.000	26.027	26.07	1.029	1.030	139.68	69.8	0.389	
19	19 13C-1,2,3,7,8-PeCDD	4.84e5	0.62	NO	0.864	10.000	31.270	31.08	1.236	1.228	170.22	85.1	0.500	
20	20 13C-1,2,3,4,7,8-HxCDD	3.41e5	1.26	NO	0.754	10.000	34.485	34.48	1.014	1.014	166.74	83.4	0.618	
21	21 13C-1,2,3,6,7,8-HxCDD	4.04e5	1.27	NO	0.925	10.000	34.594	34.59	1.017	1.017	160.63	80.3	0.503	
22	22 13C-1,2,3,7,8,9-HxCDD	3.75e5	1.26	NO	0.829	10.000	34.855	34.85	1.025	1.025	166.51	83.3	0.561	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.12e5	1.04	NO	0.598	10.000	38.318	38.34	1.127	1.127	191.80	95.9	0.528	
24	24 13C-OCDD	3.75e5	0.89	NO	0.571	10.000	41.471	41.53	1.219	1.221	241.97	60.5	0.554	
25	25 13C-2,3,7,8-TCDF	5.57e5	0.76	NO	1.09	10.000	25.038	25.08	0.990	0.991	116.47	58.2	0.982	
26	26 13C-1,2,3,7,8-PeCDF	6.56e5	1.58	NO	0.876	10.000	29.926	29.80	1.183	1.178	170.56	85.3	0.984	
27	27 13C-2,3,4,7,8-PeCDF	6.07e5	1.58	NO	0.844	10.000	30.948	30.79	1.223	1.217	163.88	81.9	1.02	
28	28 13C-1,2,3,4,7,8-HxCDF	4.46e5	0.50	NO	1.00	10.000	33.631	33.63	0.989	0.989	164.34	82.2	0.534	
29	29 13C-1,2,3,6,7,8-HxCDF	4.72e5	0.50	NO	1.12	10.000	33.740	33.74	0.992	0.992	155.37	77.7	0.478	
30	30 13C-2,3,4,6,7,8-HxCDF	4.21e5	0.52	NO	1.04	10.000	34.322	34.31	1.009	1.009	149.78	74.9	0.516	
31	31 13C-1,2,3,7,8,9-HxCDF	3.62e5	0.54	NO	0.873	10.000	35.196	35.19	1.035	1.035	152.63	76.3	0.612	

*

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-11.qld

Last Altered: Monday, March 16, 2020 12:23:43 Pacific Daylight Time

Printed: Monday, March 16, 2020 12:24:17 Pacific Daylight Time

Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.29e5	0.43	NO	0.771	10.000	36.913	36.91	1.085	1.085	157.30	78.6	0.620	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.30e5	0.44	NO	0.519	10.000	39.002	38.97	1.147	1.146	162.86	81.4	0.920	
34	34 13C-OCDF	5.17e5	0.92	NO	0.696	10.000	41.651	41.70	1.225	1.226	273.48	68.4	0.455	
35	35 37Cl-2,3,7,8-TCDD	2.14e5			1.17	10.000	26.037	26.08	1.029	1.031	55.384	69.2	0.143	
36	36 13C-1,2,3,4-TCDD	6.58e5	0.79	NO	1.00	10.000	25.050	25.30	1.000	1.000	200.00	100	0.461	
37	37 13C-1,2,3,4-TCDF	8.78e5	0.78	NO	1.00	10.000	23.650	23.66	1.000	1.000	200.00	100	1.07	
38	38 13C-1,2,3,4,6,9-HxCDF	5.43e5	0.51	NO	1.00	10.000	33.880	34.01	1.000	1.000	200.00	100	0.534	
39	39 Total Tetra-Dioxins				0.983	10.000	24.620		0.000		14.951		0.674	22.0
40	40 Total Penta-Dioxins				0.921	10.000	29.960		0.000		37.347		0.124	37.3
41	41 Total Hexa-Dioxins				0.984	10.000	33.635		0.000		333.50		0.415	334
42	42 Total Hepta-Dioxins				1.01	10.000	37.640		0.000		3353.4		1.94	3350
43	43 Total Tetra-Furans				0.915	10.000	23.610		0.000		1382.6		0.531	1380
44	44 1st Func. Penta-Furans				0.959	10.000	27.090		0.000		242.36		0.0770	242
45	45 Total Penta-Furans				0.959	10.000	29.275		0.000		1075.7		0.426	1090
46	46 Total Hexa-Furans				1.09	10.000	33.555		0.000		1434.5		0.578	1430
47	47 Total Hepta-Furans				1.05	10.000	37.835		0.000		1286.7		1.21	1290

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-11.qld

Last Altered: Monday, March 16, 2020 12:23:43 Pacific Daylight Time

Printed: Monday, March 16, 2020 12:24:17 Pacific Daylight Time

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.04	6.328e4	7.716e4	7.977e3	1.053e4	0.76	NO	1.851e4	6.9161	6.9161	0.674
2	Total Tetra-Dioxins	22.59	2.213e4	3.197e4	2.099e3	2.870e3	0.73	NO	4.969e3	1.8568	1.8568	0.674
3	Total Tetra-Dioxins	22.83	8.353e3	7.228e3	7.392e2	8.022e2	0.92	YES	0.000e0	0.00000	0.53061	0.674
4	Total Tetra-Dioxins	24.01	5.326e3	9.473e3	5.936e2	7.058e2	0.84	NO	1.299e3	0.48556	0.48556	0.674
5	Total Tetra-Dioxins	24.18	5.242e4	6.896e4	1.551e3	2.066e3	0.75	NO	0.000e0	0.00000	1.3517	0.674
6	Total Tetra-Dioxins	24.22	5.051e4	6.303e4	2.115e3	2.617e3	0.81	NO	0.000e0	0.00000	1.7683	0.674
7	Total Tetra-Dioxins	24.40	8.511e3	8.477e3	5.953e2	7.642e2	0.78	NO	1.359e3	0.50800	0.50800	0.674
8	Total Tetra-Dioxins	24.72	6.422e3	6.879e3	4.525e2	5.204e2	0.87	NO	9.728e2	0.36354	0.36354	0.674
9	Total Tetra-Dioxins	24.90	1.323e4	2.107e4	1.027e3	1.542e3	0.67	NO	2.569e3	0.96012	0.96012	0.674
10	Total Tetra-Dioxins	25.30	8.103e3	1.081e4	6.226e2	9.265e2	0.67	NO	1.549e3	0.57890	0.57890	0.674
11	Total Tetra-Dioxins	25.44	5.194e3	7.786e3	3.820e2	3.403e2	1.12	YES	0.000e0	0.00000	0.22506	0.674
12	Total Tetra-Dioxins	25.72	2.126e4	2.376e4	1.354e3	1.455e3	0.93	YES	0.000e0	0.00000	0.96245	0.674
13	Total Tetra-Dioxins	25.80	3.428e4	4.325e4	2.722e3	3.008e3	0.90	YES	0.000e0	0.00000	1.9895	0.674
14	Total Tetra-Dioxins	25.88	5.134e3	7.491e3	3.601e2	3.402e2	1.06	YES	0.000e0	0.00000	0.22504	0.674
15	2,3,7,8-TCDD	26.08	4.130e4	5.631e4	2.529e3	3.553e3	0.71	NO	6.082e3	2.2729	2.2729	0.674
16	Total Tetra-Dioxins	26.39	1.963e4	2.557e4	1.223e3	1.477e3	0.83	NO	2.700e3	1.0090	1.0090	0.674

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.84	9.856e4	1.854e5	7.968e3	1.478e4	0.54	NO	2.275e4	10.202	10.202	0.124
2	Total Penta-Dioxins	29.34	4.215e4	6.395e4	2.389e3	3.595e3	0.66	NO	5.985e3	2.6841	2.6841	0.124
3	Total Penta-Dioxins	29.86	8.593e4	1.401e5	5.394e3	8.401e3	0.64	NO	1.380e4	6.1870	6.1870	0.124
4	Total Penta-Dioxins	30.03	5.815e4	1.069e5	2.975e3	5.395e3	0.55	NO	8.369e3	3.7536	3.7536	0.124
5	Total Penta-Dioxins	30.12	4.680e4	7.182e4	2.658e3	4.002e3	0.66	NO	6.660e3	2.9869	2.9869	0.124
6	Total Penta-Dioxins	30.33	7.118e4	1.200e5	4.417e3	7.627e3	0.58	NO	1.204e4	5.4014	5.4014	0.124
7	Total Penta-Dioxins	30.68	1.145e4	1.976e4	7.580e2	1.257e3	0.60	NO	2.015e3	0.90393	0.90393	0.124
8	1,2,3,7,8-PeCDD	31.09	7.067e4	1.018e5	3.324e3	5.467e3	0.61	NO	8.791e3	3.9427	3.9427	0.124
9	Total Penta-Dioxins	31.19	2.311e4	3.602e4	1.090e3	1.776e3	0.61	NO	2.867e3	1.2857	1.2857	0.124

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-11.qld

Last Altered: Monday, March 16, 2020 12:23:43 Pacific Daylight Time

Printed: Monday, March 16, 2020 12:24:17 Pacific Daylight Time

Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.02	2.807e6	2.232e6	1.352e5	1.082e5	1.25	NO	2.434e5	132.47	132.47	0.415
2	Total Hexa-Dioxins	33.58	3.337e5	2.514e5	1.568e4	1.212e4	1.29	NO	2.781e4	15.133	15.133	0.415
3	Total Hexa-Dioxins	33.83	1.898e6	1.573e6	1.250e5	1.018e5	1.23	NO	2.268e5	123.42	123.42	0.415
4	Total Hexa-Dioxins	33.93	1.753e5	1.431e5	1.011e4	8.154e3	1.24	NO	1.827e4	9.9422	9.9422	0.415
5	1,2,3,4,7,8-HxCDD	34.49	1.054e5	8.246e4	5.757e3	4.617e3	1.25	NO	1.037e4	5.3674	5.3674	0.399
6	1,2,3,6,7,8-HxCDD	34.60	5.017e5	3.923e5	3.119e4	2.434e4	1.28	NO	5.553e4	27.951	27.951	0.400
7	Total Hexa-Dioxins	34.78	1.081e5	8.380e4	6.369e3	5.081e3	1.25	NO	1.145e4	6.2310	6.2310	0.415
8	1,2,3,7,8,9-HxCDD	34.86	2.430e5	1.869e5	1.329e4	1.025e4	1.30	NO	2.354e4	12.980	12.980	0.397

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.31	2.323e7	2.260e7	1.662e6	1.630e6	1.02	NO	3.292e6	2100.7	2100.7	1.94
2	1,2,3,4,6,7,8-HpCDD	38.35	1.219e7	1.193e7	9.953e5	9.679e5	1.03	NO	1.963e6	1252.7	1252.7	1.94

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-11.qld

Last Altered: Monday, March 16, 2020 12:23:43 Pacific Daylight Time

Printed: Monday, March 16, 2020 12:24:17 Pacific Daylight Time

Name: 200315R2_11, Date: 15-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.81	1.612e4	1.928e4	1.448e3	1.858e3	0.78	NO	3.306e3	1.2970	1.2970	0.531
2	Total Tetra-Furans	20.35	1.008e5	1.289e5	9.302e3	1.258e4	0.74	NO	2.188e4	8.5872	8.5872	0.531
3	Total Tetra-Furans	20.83	4.519e4	6.122e4	5.109e3	7.545e3	0.68	NO	1.265e4	4.9653	4.9653	0.531
4	Total Tetra-Furans	21.02	7.698e6	1.007e7	7.900e5	1.038e6	0.76	NO	1.828e6	717.40	717.40	0.531
5	Total Tetra-Furans	21.23	2.060e4	3.374e4	1.702e3	2.548e3	0.67	NO	4.249e3	1.6673	1.6673	0.531
6	Total Tetra-Furans	21.45	7.420e4	9.397e4	7.926e3	1.118e4	0.71	NO	1.911e4	7.4976	7.4976	0.531
7	Total Tetra-Furans	21.50	4.448e4	5.488e4	5.768e3	6.606e3	0.87	NO	1.237e4	4.8551	4.8551	0.531
8	Total Tetra-Furans	22.01	2.165e5	3.061e5	3.579e4	4.725e4	0.76	NO	8.304e4	32.582	32.582	0.531
9	Total Tetra-Furans	22.64	1.203e5	1.433e5	1.066e4	1.336e4	0.80	NO	2.402e4	9.4249	9.4249	0.531
10	Total Tetra-Furans	22.76	3.063e5	3.726e5	9.445e3	1.176e4	0.80	NO	2.120e4	8.3193	8.3193	0.531
11	Total Tetra-Furans	23.13	1.175e4	1.208e4	5.789e2	7.550e2	0.77	NO	1.334e3	0.52340	0.52340	0.531
12	Total Tetra-Furans	23.18	9.479e3	1.299e4	5.972e2	8.949e2	0.67	NO	1.492e3	0.58550	0.58550	0.531
13	Total Tetra-Furans	23.42	2.292e4	2.777e4	2.464e3	3.260e3	0.76	NO	5.724e3	2.2459	2.2459	0.531
14	Total Tetra-Furans	23.66	2.823e5	3.900e5	5.098e4	6.817e4	0.75	NO	1.192e5	46.753	46.753	0.531
15	Total Tetra-Furans	24.19	9.180e6	1.368e7	2.587e5	3.461e5	0.75	NO	6.048e5	237.31	237.31	0.531
16	Total Tetra-Furans	24.36	7.756e4	1.032e5	7.397e3	9.784e3	0.76	NO	1.718e4	6.7416	6.7416	0.531
17	Total Tetra-Furans	24.57	2.606e4	3.464e4	2.536e3	3.017e3	0.84	NO	5.553e3	2.1789	2.1789	0.531
18	Total Tetra-Furans	24.85	3.669e4	4.580e4	3.438e3	4.069e3	0.85	NO	7.507e3	2.9457	2.9457	0.531
19	Total Tetra-Furans	24.97	2.936e5	4.099e5	2.502e4	2.875e4	0.87	NO	5.377e4	21.098	21.098	0.531
20	2,3,7,8-TCDF	25.11	3.905e6	5.083e6	2.704e5	3.617e5	0.75	NO	6.321e5	248.02	248.02	0.531
21	Total Tetra-Furans	25.24	2.858e4	4.569e4	2.148e3	2.916e3	0.74	NO	5.064e3	1.9868	1.9868	0.531
22	Total Tetra-Furans	25.47	2.084e5	2.889e5	1.506e4	2.013e4	0.75	NO	3.519e4	13.809	13.809	0.531
23	Total Tetra-Furans	26.65	1.522e4	2.003e4	1.085e3	1.285e3	0.84	NO	2.370e3	0.93006	0.93006	0.531
24	Total Tetra-Furans	26.81	1.535e4	2.255e4	9.126e2	1.320e3	0.69	NO	2.233e3	0.87612	0.87612	0.531

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.29	6.342e6	4.167e6	4.469e5	2.871e5	1.56	NO	7.340e5	242.36	242.36	0.0770

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-11.qld

Last Altered: Monday, March 16, 2020 12:23:43 Pacific Daylight Time

Printed: Monday, March 16, 2020 12:24:17 Pacific Daylight Time

Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.64	1.971e5	1.062e5	1.217e4	6.837e3	1.78	NO	1.901e4	6.2763	6.2763	0.426
2	Total Penta-Furans	28.81	5.970e6	3.812e6	3.764e5	2.395e5	1.57	NO	6.160e5	203.38	203.38	0.426
3	Total Penta-Furans	29.40	4.308e5	2.968e5	2.493e4	1.719e4	1.45	NO	0.000e0	0.00000	13.908	0.426
4	Total Penta-Furans	29.45	1.796e5	1.117e5	7.200e3	4.797e3	1.50	NO	0.000e0	0.00000	3.9613	0.426
5	Total Penta-Furans	29.63	1.467e6	9.302e5	7.817e4	5.179e4	1.51	NO	1.300e5	42.908	42.908	0.426
6	1,2,3,7,8-PeCDF	29.81	1.484e7	9.701e6	8.197e5	5.293e5	1.55	NO	1.349e6	428.68	428.68	0.435
7	Total Penta-Furans	29.89	3.630e5	2.308e5	1.379e4	8.756e3	1.57	NO	2.254e4	7.4433	7.4433	0.426
8	Total Penta-Furans	30.09	4.501e6	2.892e6	2.691e5	1.735e5	1.55	NO	4.425e5	146.11	146.11	0.426
9	Total Penta-Furans	30.56	2.613e4	1.777e4	1.389e3	8.124e2	1.71	NO	2.201e3	0.72680	0.72680	0.426
10	Total Penta-Furans	30.68	1.167e5	7.169e4	5.895e3	3.808e3	1.55	NO	9.703e3	3.2036	3.2036	0.426
11	Total Penta-Furans	30.80	7.853e6	5.136e6	3.718e5	2.442e5	1.52	NO	6.161e5	203.41	203.41	0.426
12	2,3,4,7,8-PeCDF	30.83	3.370e6	2.154e6	6.250e4	3.953e4	1.58	NO	1.020e5	33.516	33.516	0.398

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.49	8.677e5	6.902e5	4.422e4	3.614e4	1.22	NO	8.035e4	34.611	34.611	0.578
2	Total Hexa-Furans	32.64	4.004e6	3.224e6	1.738e5	1.427e5	1.22	NO	3.165e5	136.32	136.32	0.578
3	Total Hexa-Furans	32.99	6.567e4	5.230e4	2.815e3	2.527e3	1.11	NO	5.342e3	2.3009	2.3009	0.578
4	Total Hexa-Furans	33.18	3.186e6	2.601e6	1.631e5	1.355e5	1.20	NO	2.986e5	128.60	128.60	0.578
5	Total Hexa-Furans	33.53	2.052e5	1.512e5	8.904e3	6.617e3	1.35	NO	1.552e4	6.6851	6.6851	0.578
6	1,2,3,4,7,8-HxCDF	33.64	2.024e7	1.680e7	9.736e5	8.050e5	1.21	NO	1.779e6	767.73	767.73	0.538
7	1,2,3,6,7,8-HxCDF	33.76	5.066e6	4.135e6	2.779e5	2.284e5	1.22	NO	5.063e5	212.04	212.04	0.556
8	Total Hexa-Furans	33.85	1.285e5	8.893e4	6.881e3	5.256e3	1.31	NO	1.214e4	5.2280	5.2280	0.578
9	Total Hexa-Furans	34.01	9.509e4	7.748e4	5.080e3	4.291e3	1.18	NO	9.371e3	4.0366	4.0366	0.578
10	2,3,4,6,7,8-HxCDF	34.33	1.117e6	9.150e5	6.214e4	5.120e4	1.21	NO	1.133e5	49.299	49.299	0.618
11	1,2,3,7,8,9-HxCDF	35.24	1.661e6	1.329e6	6.445e4	5.335e4	1.21	NO	1.178e5	63.418	63.418	0.737
12	Total Hexa-Furans	35.25	1.469e6	1.197e6	3.198e4	2.439e4	1.31	NO	5.637e4	24.280	24.280	0.578

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-11.qld

Last Altered: Monday, March 16, 2020 12:23:43 Pacific Daylight Time

Printed: Monday, March 16, 2020 12:24:17 Pacific Daylight Time

Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2-PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.93	5.615e6	5.500e6	3.954e5	3.917e5	1.01	NO	7.871e5	456.17	456.17	1.02
2	Total Hepta-Furans	37.30	8.929e4	9.038e4	6.002e3	6.236e3	0.96	NO	1.224e4	8.3564	8.3564	1.21
3	Total Hepta-Furans	37.52	6.755e6	6.639e6	4.988e5	4.900e5	1.02	NO	9.888e5	675.20	675.20	1.21
4	1,2,3,4,7,8,9-HpCDF	38.99	1.412e6	1.433e6	1.014e5	1.028e5	0.99	NO	2.041e5	146.95	146.95	1.28

Dataset: Untitled

Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

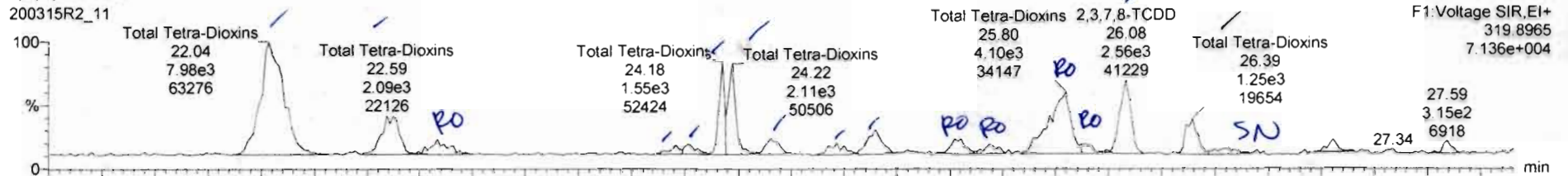
Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

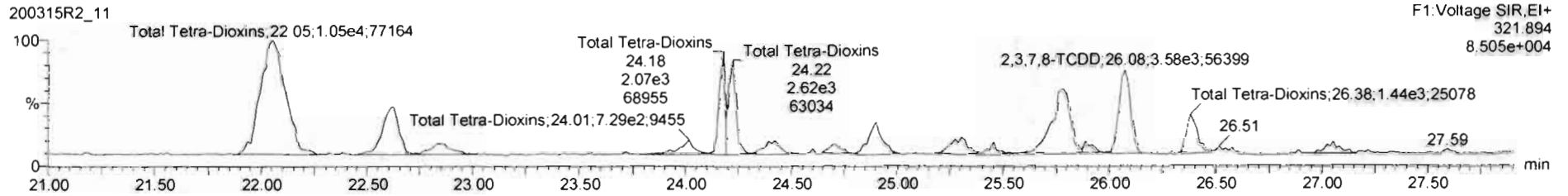
Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

2,3,7,8-TCDD

200315R2_11

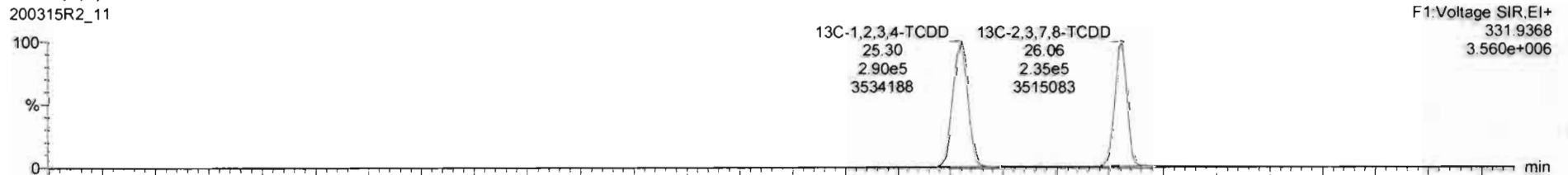


200315R2_11

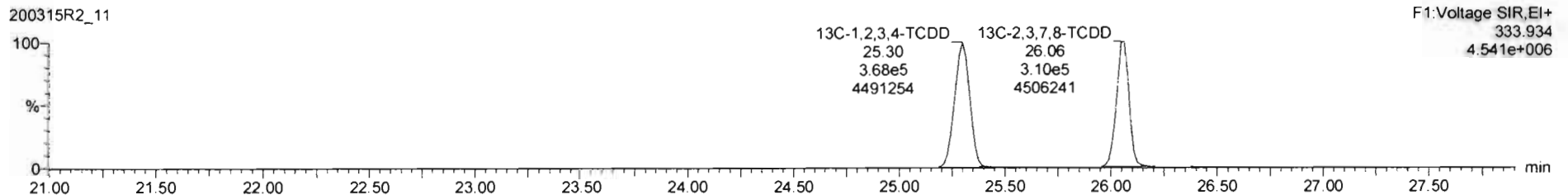


13C-2,3,7,8-TCDD

200315R2_11

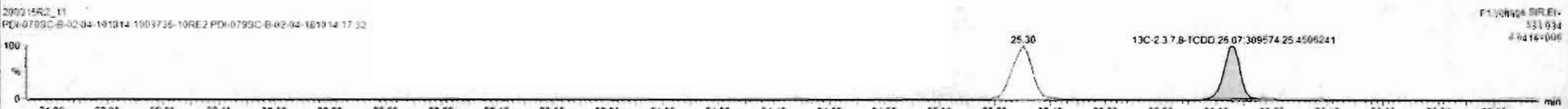
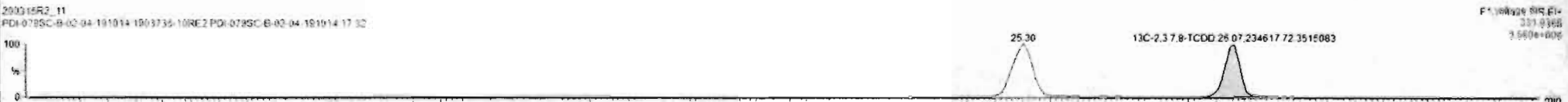
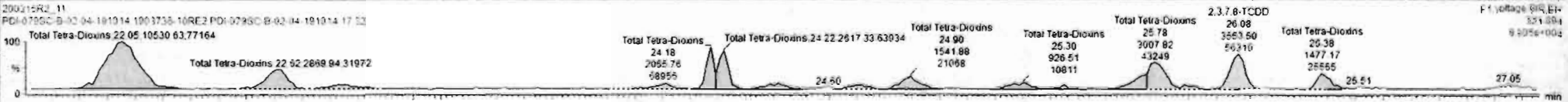
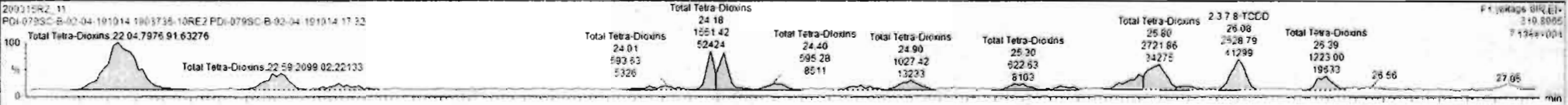


200315R2_11



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	QL	EMPC
39 Total Tetra-Dioxins				0.9835	10.000			15.0		0.674	22.0
40 Total Penta-Dioxins				0.9212	10.000			37.3		0.124	38.4

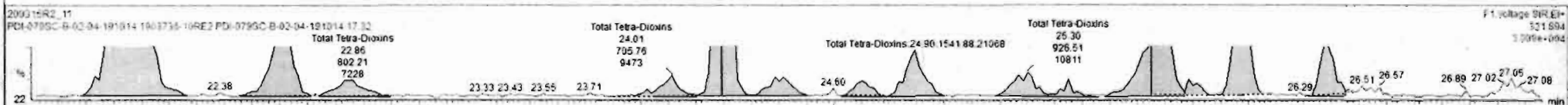
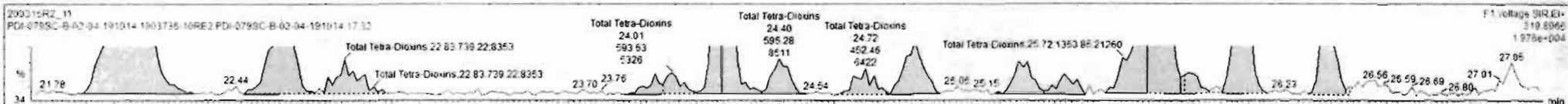
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	22.04	7.977e3	1.053e4	0.76	NO	6.9161	6.9161
2 Total Tetra-Dioxins	22.59	2.096e3	2.670e3	0.73	NO	1.8568	1.9562
3 Total Tetra-Dioxins	22.83	7.392e2	6.027e2	0.92	YES	0.53061	0.00000
4 Total Tetra-Dioxins	24.01	6.936e2	7.058e2	0.64	NO	0.40556	0.48556
5 Total Tetra-Dioxins	24.18	1.551e3	2.066e3	0.75	NO	1.3617	0.00000
6 Total Tetra-Dioxins	24.22	2.115e3	2.617e3	0.61	NO	1.7663	0.00000
7 Total Tetra-Dioxins	24.40	5.543e2	7.842e2	0.78	NO	0.50800	0.50800
8 Total Tetra-Dioxins	24.72	4.525e2	5.204e2	0.67	NO	6.36754	0.36354
9 Total Tetra-Dioxins	24.90	1.027e3	1.542e3	0.67	NO	0.95012	0.95012
10 Total Tetra-Dioxins	25.30	6.226e2	8.265e2	0.67	NO	0.67890	0.57890
11 Total Tetra-Dioxins	25.44	3.820e2	3.403e2	1.12	YES	0.22506	0.00000
12 Total Tetra-Dioxins	25.72	1.354e3	1.455e3	0.93	YES	0.96245	0.00000
13 Total Tetra-Dioxins	25.80	2.722e2	3.089e2	0.90	YES	1.9695	0.00000
14 Total Tetra-Dioxins	25.68	3.601e2	3.402e2	1.06	YES	0.22504	0.00000
15 2,3,7,8-TCDD	26.68	2.529e3	3.553e3	0.71	NO	2.2729	2.2729
16 Total Tetra-Dioxins	26.39	1.223e3	1.477e3	0.83	NO	1.0692	1.0090



Custom Reporting: Select reports to generate

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.000			15.0		0.674	22.0
40 Total Penta-Dioxins				0.9212	10.000			37.3		0.124	38.4

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	22.04	7.977e3	1.053e4	0.76	NO	8.9161	6.9181
2 Total Tetra-Dioxins	22.59	2.099e3	2.870e3	0.72	NO	1.8568	1.8562
3 Total Tetra-Dioxins	22.83	7.392e2	8.027e2	0.92	YES	0.53661	0.60000
4 Total Tetra-Dioxins	24.01	5.936e2	7.058e2	0.84	NO	0.48556	0.48556
5 Total Tetra-Dioxins	24.18	1.551e3	2.066e3	0.75	NO	1.3517	0.00000
6 Total Tetra-Dioxins	24.22	2.115e3	2.817e3	0.81	NO	1.7683	0.00000
7 Total Tetra-Dioxins	24.40	5.952e2	7.642e2	0.78	NO	0.50800	0.50800
8 Total Tetra-Dioxins	24.72	4.525e2	5.204e2	0.67	NO	0.36354	0.36354
9 Total Tetra-Dioxins	24.80	1.027e3	1.542e3	0.67	NO	0.96012	0.96012
10 Total Tetra-Dioxins	25.30	6.226e2	9.265e2	0.67	NO	0.57890	0.57890
11 Total Tetra-Dioxins	25.44	3.520e2	3.402e2	1.12	YES	0.22505	0.00000
12 Total Tetra-Dioxins	25.72	1.354e3	1.455e3	0.93	YES	0.96245	0.00000
13 Total Tetra-Dioxins	25.80	2.722e3	3.006e3	0.90	YES	1.9695	0.00000
14 Total Tetra-Dioxins	25.88	3.801e2	3.402e2	1.06	YES	0.22404	0.00000
15 2,3,7,8-TCDD	26.08	2.529e3	3.553e3	0.71	NO	2.2728	2.2728
16 Total Tetra-Dioxins	26.39	1.223e3	1.477e3	0.83	NO	1.0090	1.0090



Dataset: Untitled

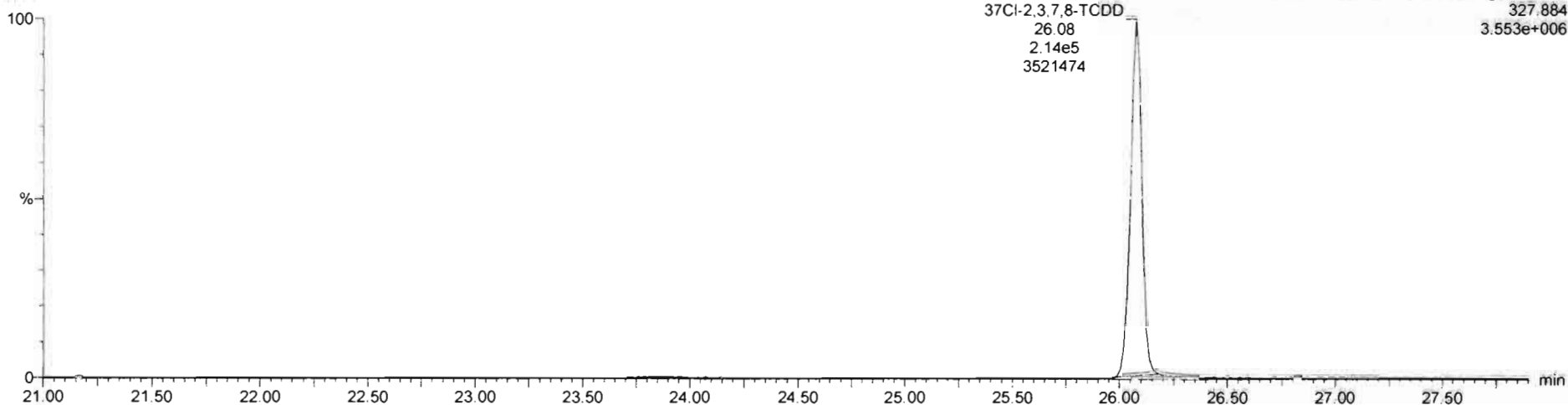
Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

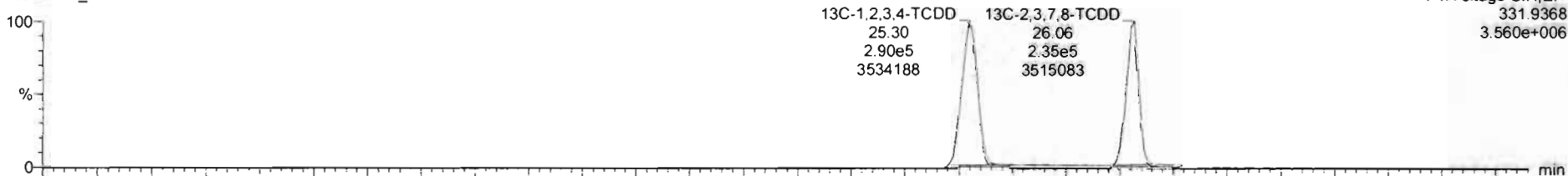
37Cl-2,3,7,8-TCDD

200315R2_11

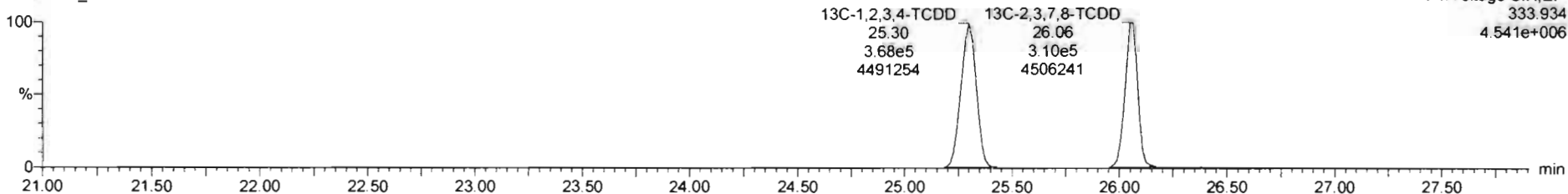


13C-1,2,3,4-TCDD

200315R2_11



200315R2_11



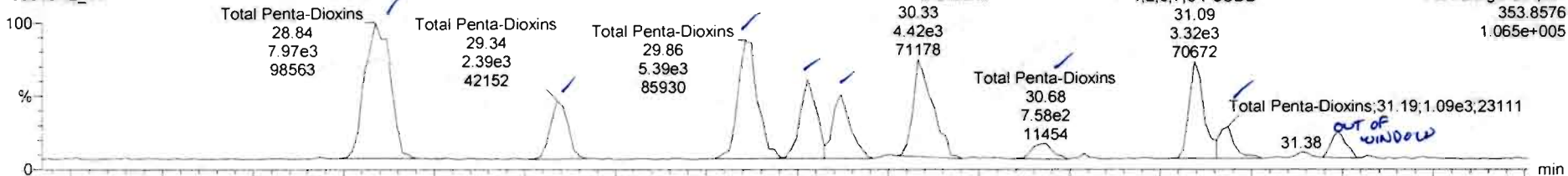
Dataset: Untitled

Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time
Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

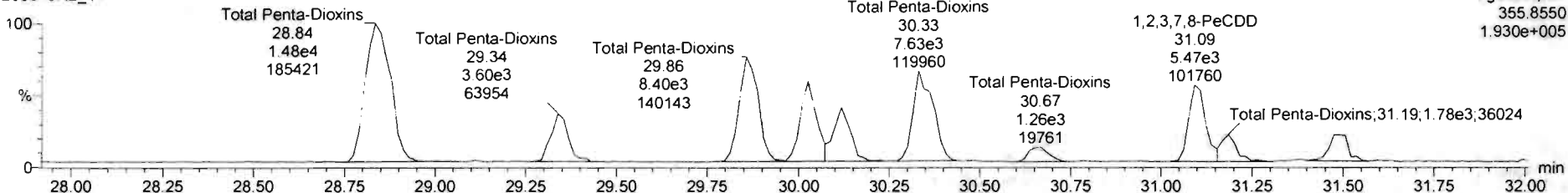
Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

1,2,3,7,8-PeCDD

200315R2_11

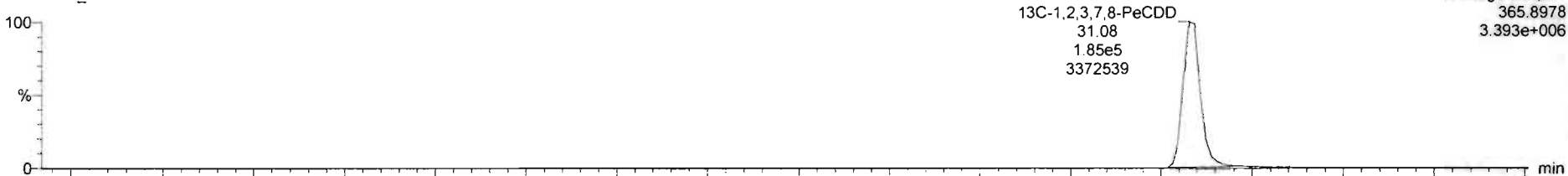


200315R2_11

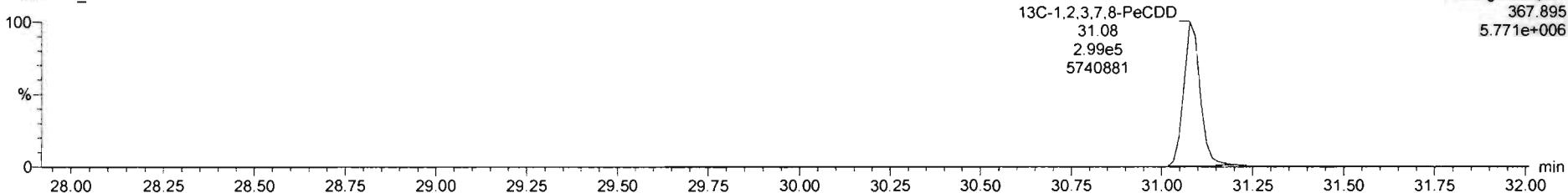


13C-1,2,3,7,8-PeCDD

200315R2_11

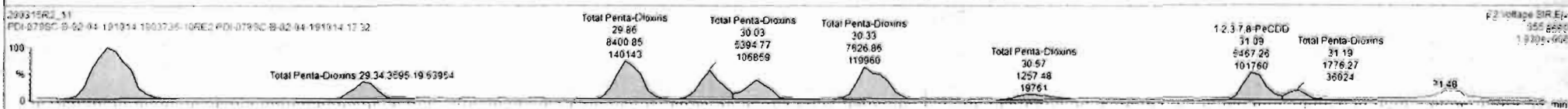
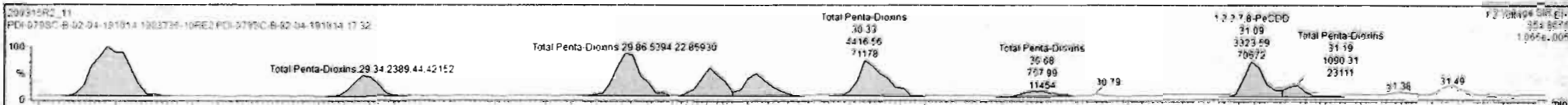


200315R2_11



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.6235	10.000			15.0		0.674	22.0
40 Total Penta-Dioxins				0.9212	10.000			37.3		0.124	37.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.64	7.666e3	1.476e4	0.54	NO	10.202	10.202
2 Total Penta-Dioxins	29.34	2.399e3	3.595e3	0.66	NO	2.6841	2.6841
3 Total Penta-Dioxins	29.86	5.294e3	8.401e3	0.84	NO	6.1870	6.1870
4 Total Penta-Dioxins	30.03	2.975e3	5.395e3	0.55	NO	3.7536	3.7536
5 Total Penta-Dioxins	30.12	2.658e3	4.002e3	0.66	NO	2.9669	2.9669
6 Total Penta-Dioxins	30.23	4.417e3	7.627e3	0.58	NO	5.4014	5.4014
7 Total Penta-Dioxins	30.68	7.580e2	1.257e3	0.60	NO	0.90393	0.90393
8 1,2,3,7,8-PeCDD	31.09	3.324e3	5.467e3	0.61	NO	3.9427	3.9427
9 Total Penta-Dioxins	31.15	1.290e3	1.776e3	0.61	NO	1.2657	1.2657



Dataset: Untitled

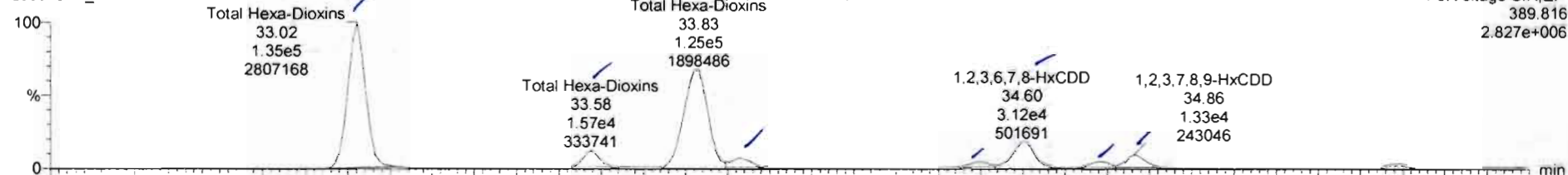
Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

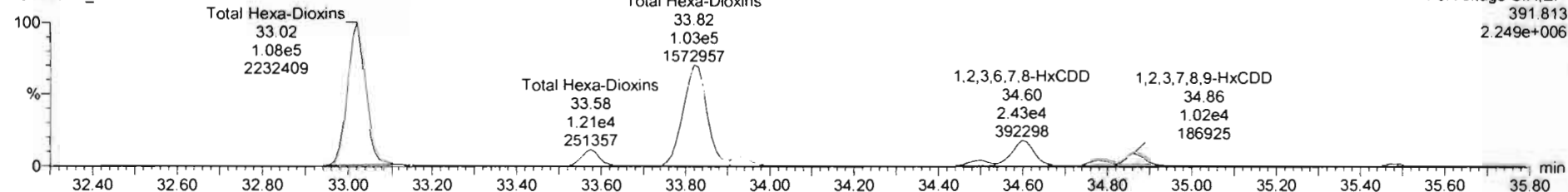
Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

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

200315R2_11

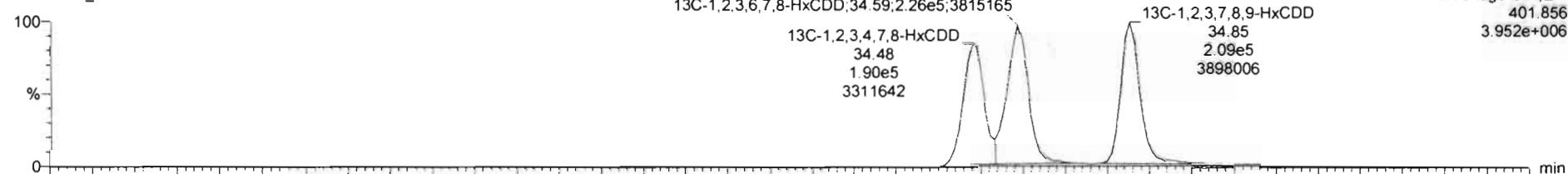


200315R2_11

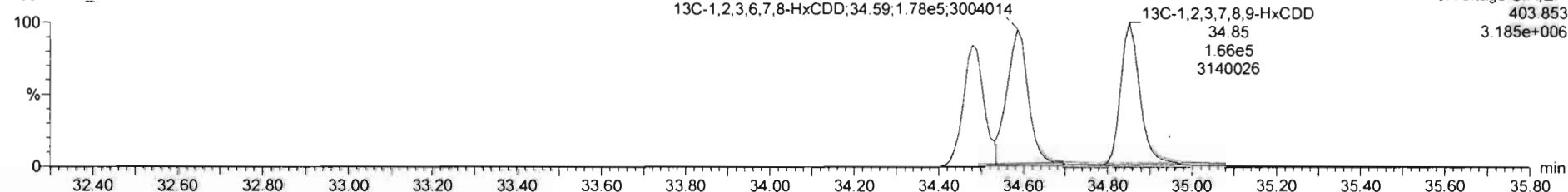


13C-1,2,3,4,7,8-HxCDD

200315R2_11

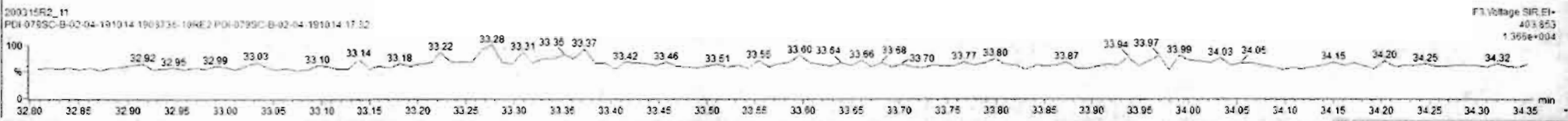
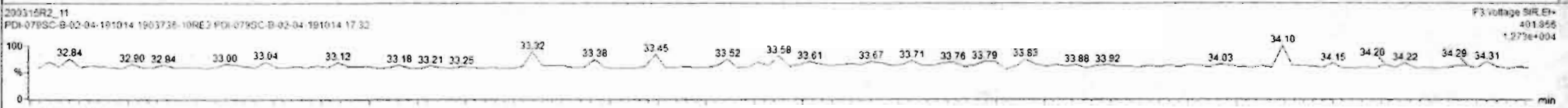
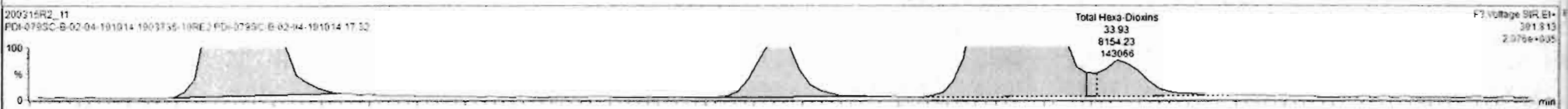


200315R2_11



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9844	10.000			334	0.415	336	
42 Total Hexa-Dioxins				1.0081	10.000			3350	1.84	3350	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.00	1.352e5	1.082e5	1.25	NO	132.47	132.47
2 Total Hexa-Dioxins	33.58	1.585e4	1.212e4	1.29	NO	15.133	15.133
3 Total Hexa-Dioxins	33.83	1.220e5	1.015e5	1.23	NO	123.42	123.42
4 Total Hexa-Dioxins	33.93	1.211e4	9.154e3	1.24	NO	9.9422	9.9422
5 1,2,3,4,7,8-HxCDD	34.49	5.757e3	4.617e3	1.25	NO	5.3674	5.3674
6 1,2,3,6,7,8-HxCDD	34.60	3.119e4	2.434e4	1.26	NO	27.951	27.951
7 Total Hexa-Dioxins	34.78	6.388e3	5.081e3	1.25	NO	6.2310	6.2310
8 1,2,3,7,8,9-HxCDD	34.66	1.329e4	1.025e4	1.30	NO	12.980	12.980
9 Total Hexa-Dioxins	35.49	3.915e3	2.074e3	1.89	ES	2.5288	0.00000



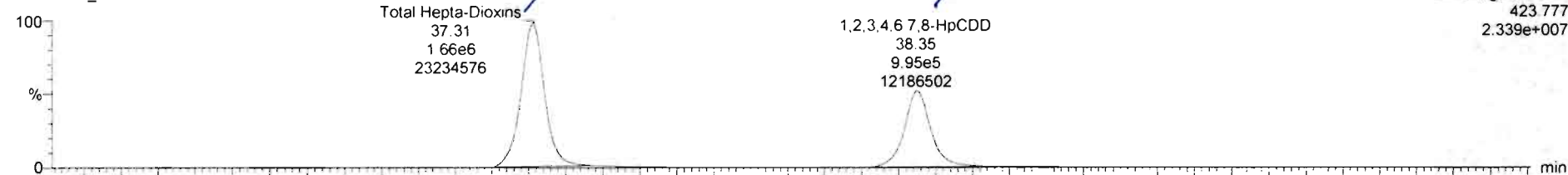
Dataset: Untitled

Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time
Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

Name: 200315R2_11; Date: 16-Mar-2020; Time: 07:55:21; ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32; Description: PDI-079SC-B-02-04-191014

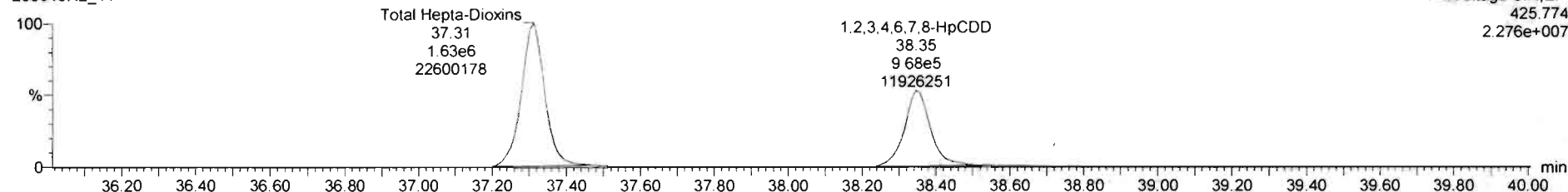
1,2,3,4,6,7,8-HpCDD

200315R2_11



F4: Voltage SIR, EI+
423.777
2.339e+007

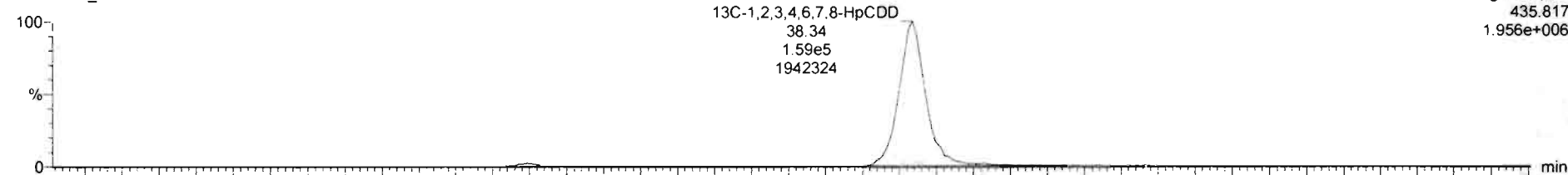
200315R2_11



F4: Voltage SIR, EI+
425.774
2.276e+007

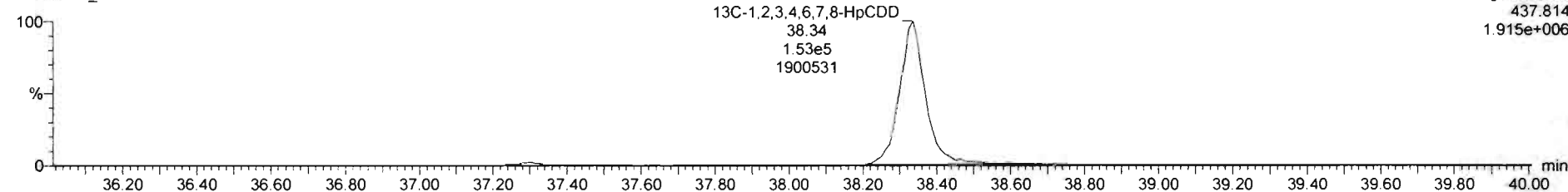
13C-1,2,3,4,6,7,8-HpCDD

200315R2_11



F4: Voltage SIR, EI+
435.817
1.956e+006

200315R2_11

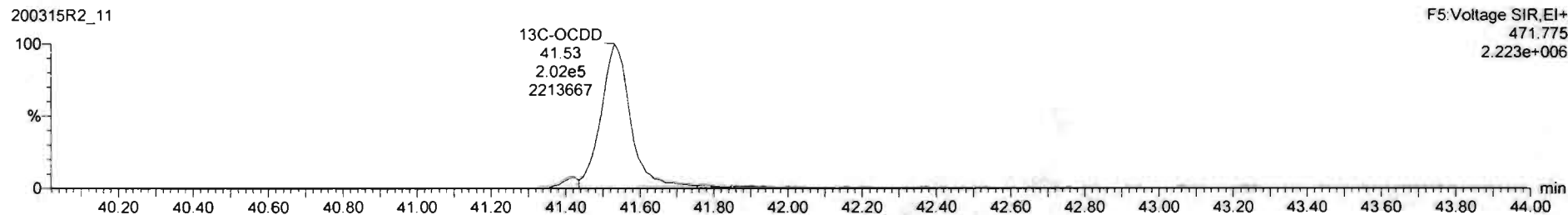
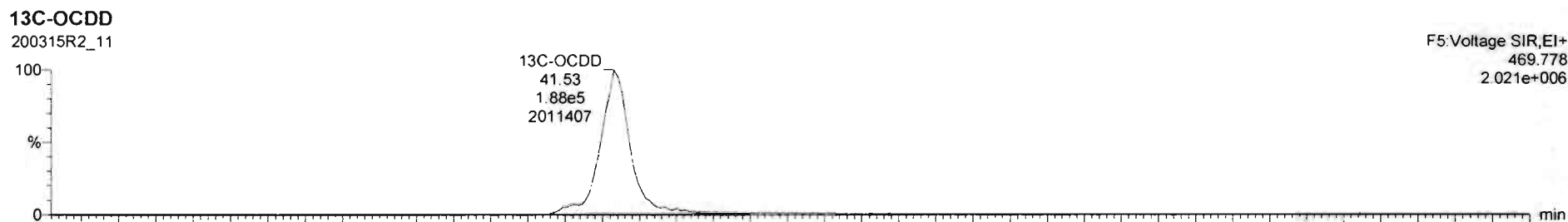
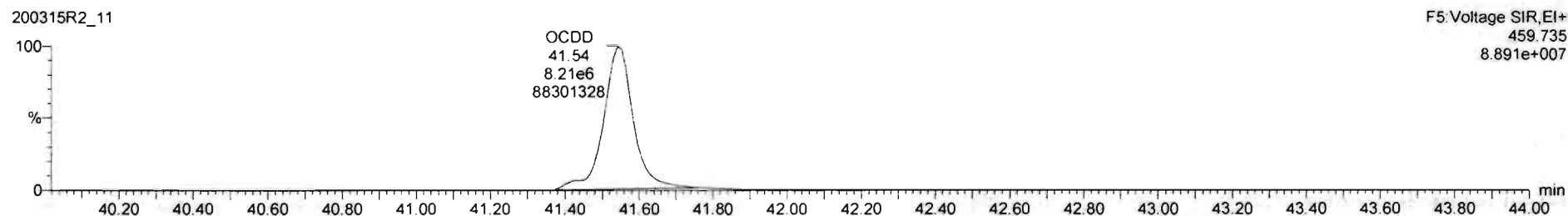
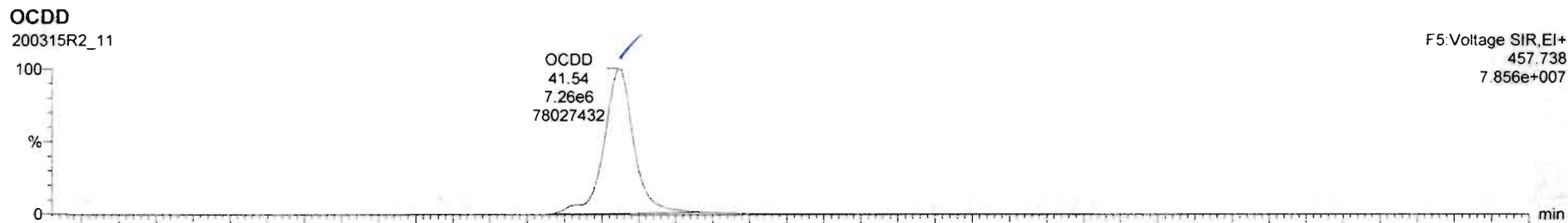


F4: Voltage SIR, EI+
437.814
1.915e+006

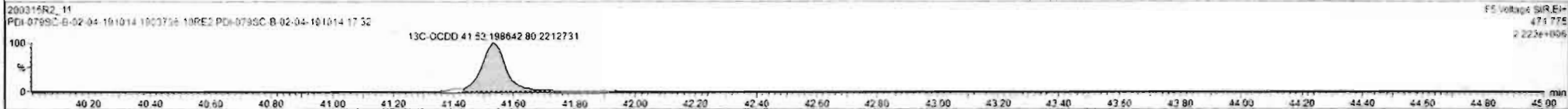
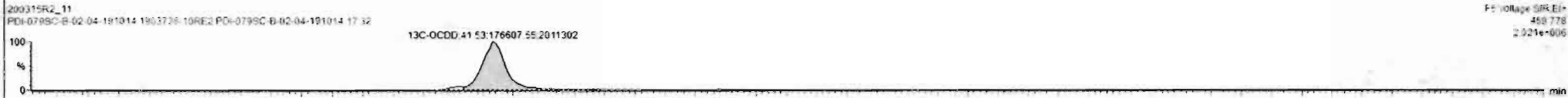
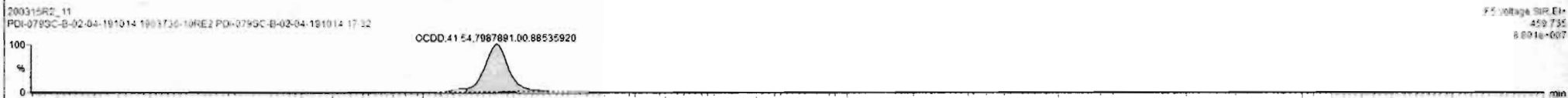
Dataset: Untitled

Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time
Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	6.14e3	0.72	NO	0.98	10.000	26.08	1.001	2.29		0.674	2.29
2	1,2,3,7,8-PeCDD	8.79e3	0.61	NO	0.92	10.000	31.09	1.000	3.94		0.124	3.94
3	1,2,3,4,7,8-HxCDD	1.54e4	1.25	NO	1.13	10.000	34.49	1.000	5.37		0.399	5.37
4	1,2,3,6,7,8-HxCDD	5.55e4	1.26	NO	0.98	10.000	34.60	1.000	29.0		0.400	29.0
5	1,2,3,7,8,9-HxCDD	2.35e4	1.30	NO	0.97	10.000	34.86	1.000	13.0		0.397	13.0
6	1,2,3,4,6,7,8-HpCDD	1.96e6	1.03	NO	1.01	10.000	38.35	1.000	1250		1.54	1250
7	OCDD	1.51e7	0.89	NO	1.05	10.000	41.54	1.000	15300		4.22	15300
8	2,3,7,8-TCDF	6.22e5	0.76	NO	0.92	10.000	25.11	1.001	244		0.531	244
9	1,2,3,7,8-PeCDF	1.33e6	1.54	NO	0.98	10.000	29.81	1.001	424		0.435	424
10	2,3,4,7,8-PeCDF	7.02e5	1.54	NO	1.00	10.000	30.80	1.000	231		0.398	231
11	1,2,3,4,7,8-HxCDF	1.76e6	1.19	NO	1.04	10.000	33.64	1.000	759		0.538	759
12	1,2,3,6,7,8-HxCDF	4.80e5	1.18	NO	1.01	10.000	33.76	1.001	201		0.556	201
13	2,3,4,6,7,8-HxCDF	1.13e5	1.21	NO	1.09	10.000	34.33	1.001	49.3		0.618	49.3
14	1,2,3,7,8,9-HxCDF	1.75e5	1.23	NO	1.03	10.000	35.24	1.001	94.0		0.737	94.0
15	1,2,3,4,6,7,8-HpCDF	7.76e5	1.01	NO	1.05	10.000	36.93	1.001	450		1.22	450
16	1,2,3,4,7,8,9-HpCDF	2.01e5	0.99	NO	1.21	10.000	38.99	1.000	145		1.28	145
17	OCDF	1.31e6	0.88	NO	0.95	10.000	41.71	1.000	1020		1.28	1020
18	13C-2,3,7,8-TCDD	5.44e5	0.76	NO	1.18	10.000	26.07	1.030	140	69.8	0.385	
19	13C-1,2,3,7,8-PeCDD	4.84e5	0.62	NO	0.86	10.000	31.06	1.226	170	85.1	0.500	
20	13C-1,2,3,4,7,8-HxCDD	3.41e5	1.26	NO	0.75	10.000	34.46	1.014	167	83.4	0.618	
21	13C-1,2,3,6,7,8-HxCDD	4.04e5	1.27	NO	0.93	10.000	34.59	1.017	161	80.3	0.503	



Dataset: Untitled

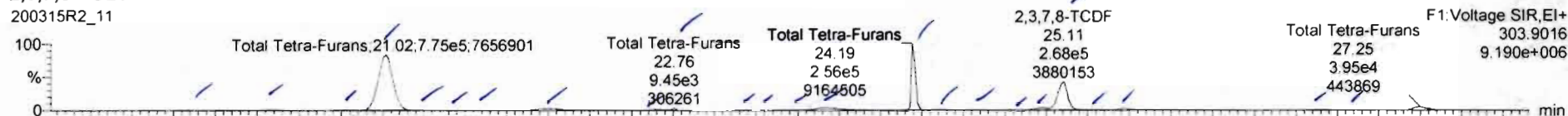
Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

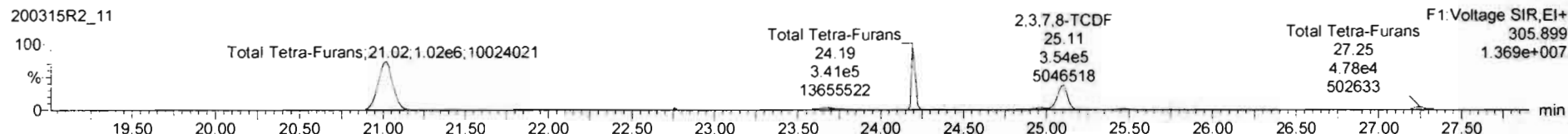
Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

2,3,7,8-TCDF

200315R2_11

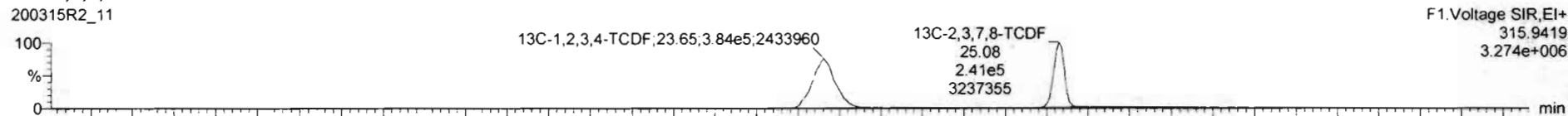


200315R2_11

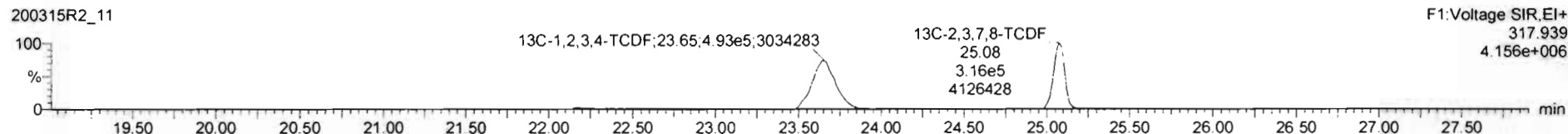


13C-2,3,7,8-TCDF

200315R2_11

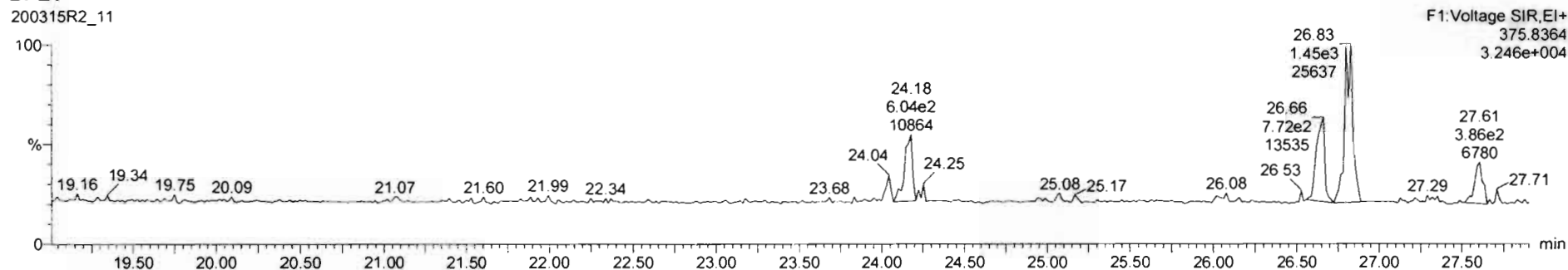


200315R2_11



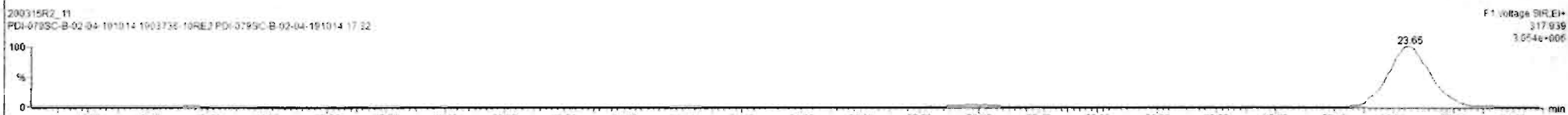
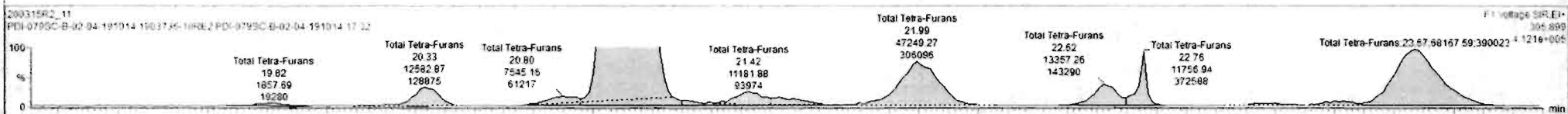
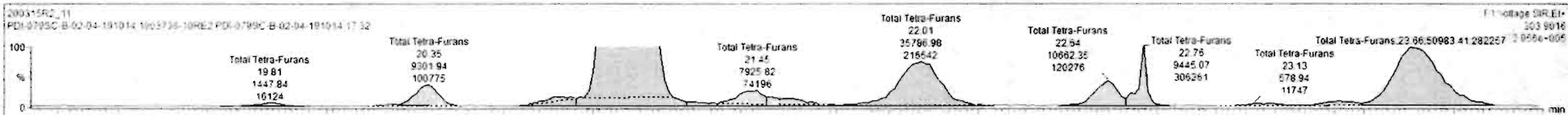
DPE1

200315R2_11



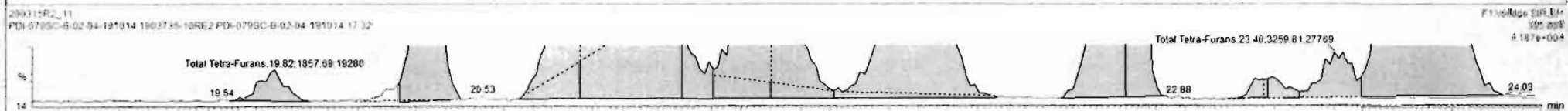
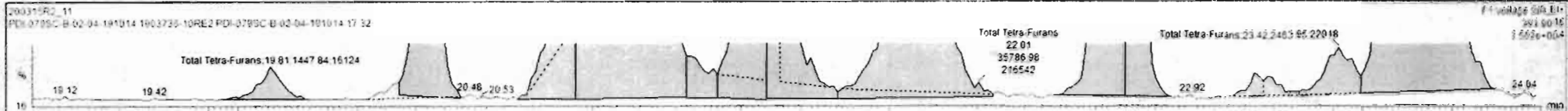
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.000			1400		0.531	1400
44 1st Func. Penta-Furans				0.9594	10.000			242		0.0770	242

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	19.61	1.44e3	1.55e2	0.78	ND	1.2970	1.2670
2 Total Tetra-Furans	20.35	9.30e3	1.25e4	0.74	ND	8.5872	8.5272
3 Total Tetra-Furans	20.83	5.10e3	7.54e3	0.68	ND	4.9653	4.9653
4 Total Tetra-Furans	21.02	7.90e5	1.03e6	0.76	ND	717.40	717.40
5 Total Tetra-Furans	21.23	1.70e3	2.54e3	0.67	ND	1.6673	1.6673
6 Total Tetra-Furans	21.45	7.52e3	1.11e4	0.71	ND	7.4976	7.4976
7 Total Tetra-Furans	21.50	5.70e3	6.60e3	0.67	ND	4.8551	4.8551
8 Total Tetra-Furans	22.01	3.57e4	4.72e4	0.75	ND	32.582	32.582
9 Total Tetra-Furans	22.64	1.05e4	1.23e4	0.80	ND	9.4249	9.4249
10 Total Tetra-Furans	22.76	5.44e3	1.17e4	0.60	ND	2.3193	8.3193
11 Total Tetra-Furans	23.13	5.78e2	7.55e2	0.77	ND	0.52340	0.52340
12 Total Tetra-Furans	23.18	5.97e2	8.94e2	0.67	ND	0.56550	0.56550
13 Total Tetra-Furans	23.42	2.46e3	3.26e3	0.76	ND	2.2455	2.2455
14 Total Tetra-Furans	23.66	5.09e4	8.617e4	0.75	ND	46.763	46.763



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.000			1400	0.531	1400	
44 1st Func. Penta-Furans				0.9594	10.000			242	0.0770	242	

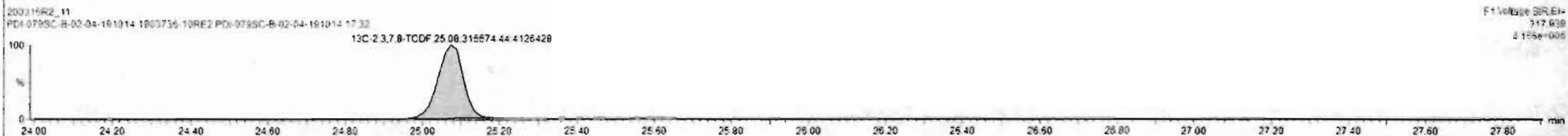
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.61	1.446e3	1.552e3	0.78	NO	1.2970	1.2970
2 Total Tetra-Furans	20.35	9.302e3	1.258e4	0.74	NO	8.5872	8.5872
3 Total Tetra-Furans	20.83	5.109e3	7.545e3	0.68	NO	4.9653	4.9653
4 Total Tetra-Furans	21.02	7.900e5	1.038e6	0.76	NO	717.40	717.40
5 Total Tetra-Furans	21.23	1.702e3	2.548e3	0.67	NO	1.6673	1.6673
6 Total Tetra-Furans	21.45	7.526e3	1.118e4	0.71	NO	7.4976	7.4976
7 Total Tetra-Furans	21.50	5.766e2	6.606e2	0.67	NO	4.6551	4.6551
8 Total Tetra-Furans	22.01	3.579e4	4.725e4	0.76	NO	32.582	32.582
9 Total Tetra-Furans	22.64	1.396e4	1.336e4	0.80	NO	9.4249	9.4249
10 Total Tetra-Furans	22.76	9.445e3	1.176e4	0.80	NO	8.3192	8.3192
11 Total Tetra-Furans	23.13	6.789e2	7.550e2	0.77	NO	6.52340	6.52340
12 Total Tetra-Furans	23.18	5.972e2	8.949e2	0.67	NO	6.58550	6.58550
13 Total Tetra-Furans	23.42	2.464e3	3.280e3	0.76	NO	2.2459	2.2459
14 Total Tetra-Furans	23.86	6.096e4	6.817e4	0.75	NO	46.752	46.752



Custom Reporting: Select reports to generate

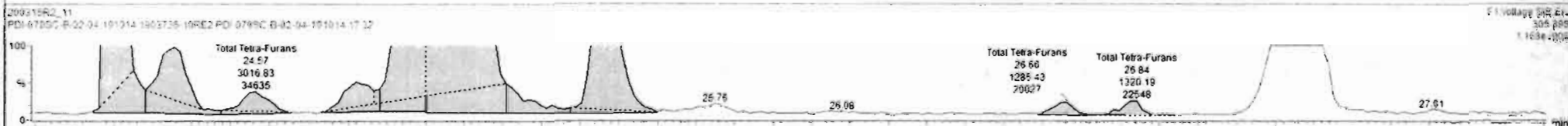
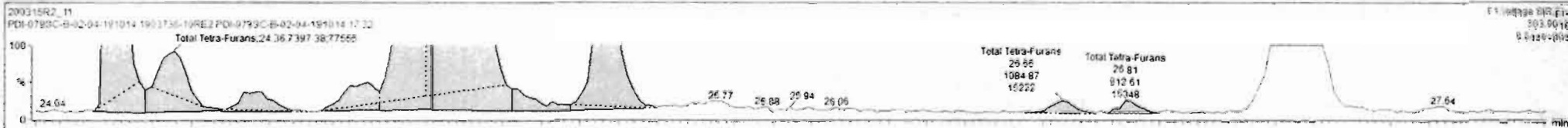
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.000			1380	0.531	1380	
44 1st Func. Penta-Furans				0.6594	10.000			242	0.0770	242	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
15 Total Tetra-Furans	24.19	2.587e5	3.461e5	0.75	NO	237.31	237.31
16 Total Tetra-Furans	24.36	7.397e3	9.784e3	0.76	NO	6.7416	6.7416
17 Total Tetra-Furans	24.67	2.536e3	3.017e3	0.84	NO	2.1789	2.1789
18 Total Tetra-Furans	24.85	3.436e3	4.069e3	0.85	NO	2.9457	2.9457
19 Total Tetra-Furans	24.87	2.502e4	2.875e4	0.87	NO	21.096	21.096
20 2,3,7,8-TCDF	25.11	2.704e5	3.617e5	0.75	NO	246.02	246.02
21 Total Tetra-Furans	25.24	2.146e3	2.916e3	0.74	NO	1.9668	1.9668
22 Total Tetra-Furans	25.47	1.506e4	2.013e4	0.75	NO	12.609	13.809
23 Total Tetra-Furans	26.65	1.025e3	1.285e3	0.84	NO	0.9306	0.9306
24 Total Tetra-Furans	26.81	9.126e2	1.320e3	0.69	NO	0.67612	0.67612



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.000			1380	0.531	1380	
44 1st Func. Penta-Furans				0.9594	10.000			242	0.0770	242	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
15 Total Tetra-Furans	24.19	2.587e5	3.461e5	0.75	NO	227.31	237.21
16 Total Tetra-Furans	24.36	7.397e3	9.784e3	0.76	NO	6.7416	6.7416
17 Total Tetra-Furans	24.57	2.536e2	3.017e3	0.84	NO	2.1785	2.1789
18 Total Tetra-Furans	24.65	3.436e3	4.069e3	0.85	NO	2.9457	2.9457
19 Total Tetra-Furans	24.57	2.532e4	2.875e4	0.67	NO	21.096	21.098
20 2,3,7,8-TCDF	25.11	2.794e5	3.617e5	0.75	NO	248.02	248.02
21 Total Tetra-Furans	25.24	2.148e3	2.516e3	0.74	NO	1.9668	1.9668
22 Total Tetra-Furans	25.47	1.508e4	2.013e4	0.75	NO	13.809	13.805
23 Total Tetra-Furans	26.65	1.025e3	1.285e3	0.84	NO	0.93006	0.93006
24 Total Tetra-Furans	26.81	9.126e2	1.320e3	0.69	NO	0.87612	0.87612



Dataset: Untitled

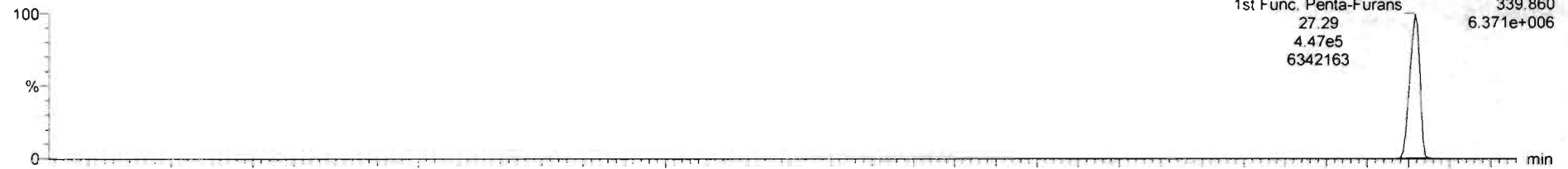
Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

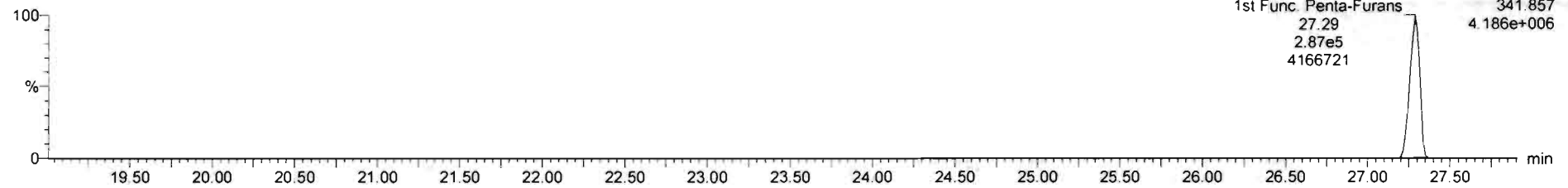
Name: 200315R2_11, Date: 15-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

1st Func. Penta-Furans

200315R2_11

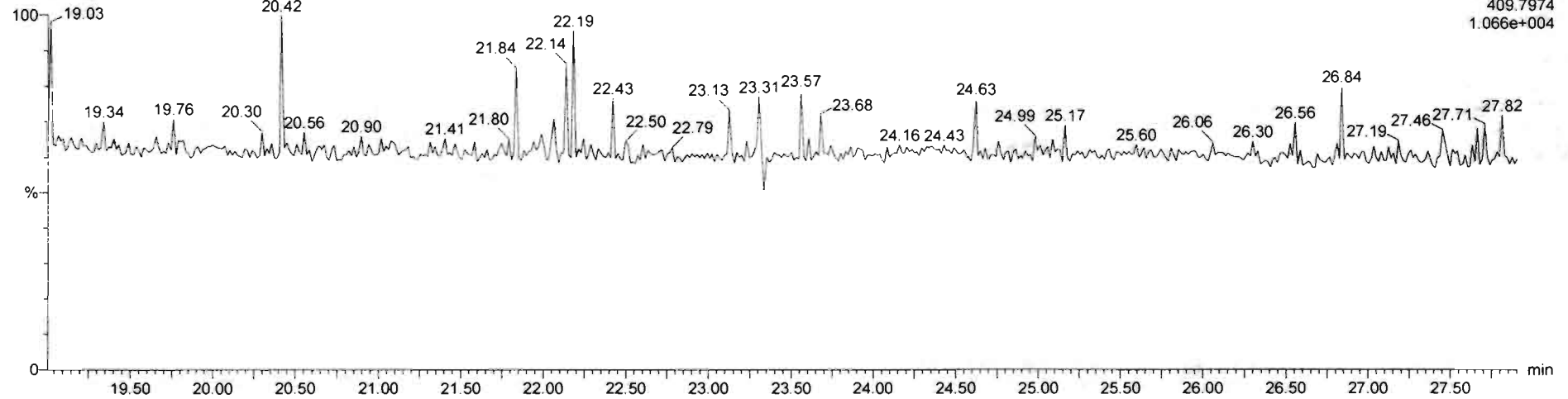


200315R2_11



DPE6

200315R2_11



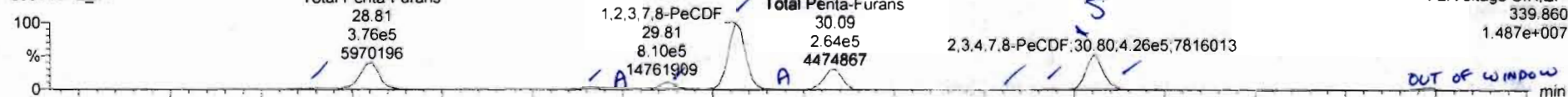
Dataset: Untitled

Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time
Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

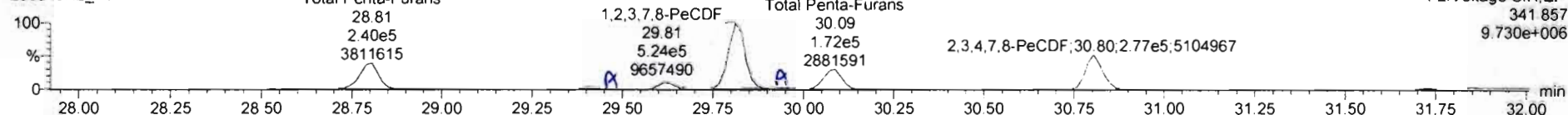
Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

1,2,3,7,8-PeCDF

200315R2_11

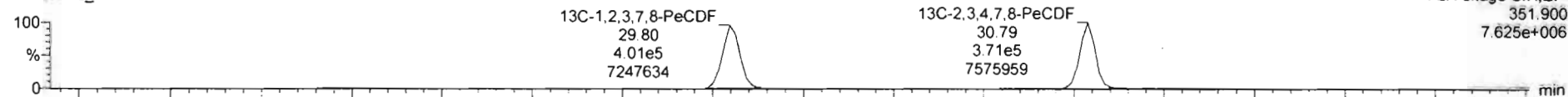


200315R2_11

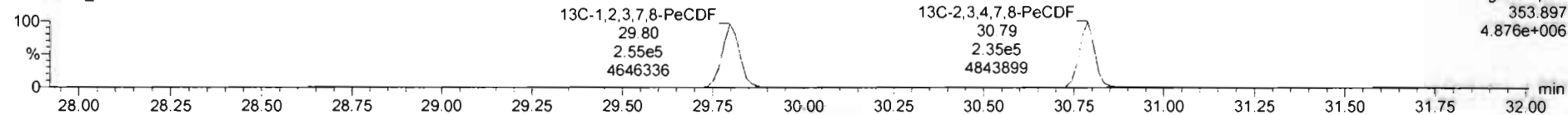


13C-1,2,3,7,8-PeCDF

200315R2_11

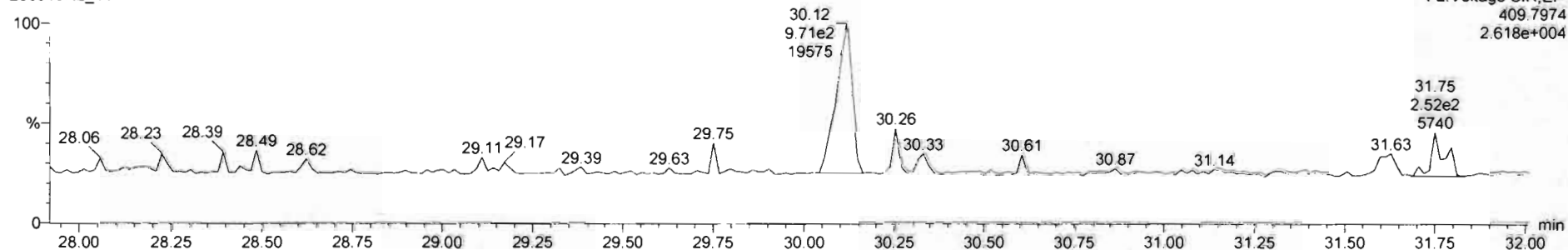


200315R2_11



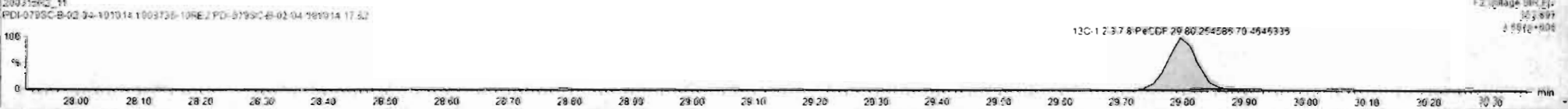
DPE2

200315R2_11



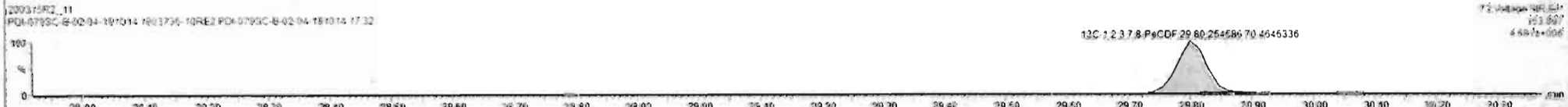
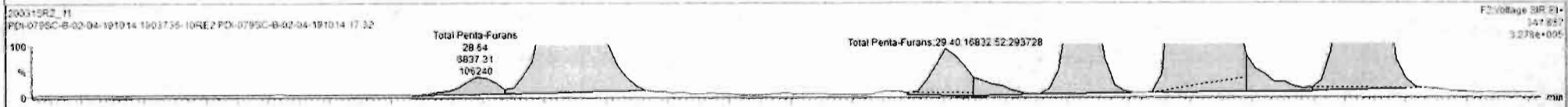
Name	Resp	RA	n/y	RRF	wiVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.000			1080		0.426	1100
46 Total Hexa-Furans				1.9520	10.000			1400		0.578	1410

Name	RT	mt Resp	nt Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.84	1.217e4	6.837e3	1.78	NO	6.2763	6.2763
2 Total Penta-Furans	28.81	3.784e5	2.385e5	1.57	NO	203.38	203.38
3 Total Penta-Furans	29.46	2.493e4	1.715e4	1.45	NO	13.908	0.00000
4 Total Penta-Furans	29.45	7.200e3	4.797e3	1.50	NO	3.9613	0.00000
5 Total Penta-Furans	29.63	7.817e4	5.179e4	1.51	NO	42.908	42.508
6 1,2,3,7,8-PeCDF	29.61	6.197e5	5.293e5	1.55	NO	428.68	428.68
7 Total Penta-Furans	29.89	1.139e4	6.756e3	1.57	NO	7.4433	7.4433
8 Total Penta-Furans	30.09	2.291e5	1.735e5	1.55	NO	145.11	145.11
9 Total Penta-Furans	30.56	1.149e3	6.954e2	1.65	NO	0.60906	0.60906
10 Total Penta-Furans	30.66	4.526e3	2.752e3	1.64	NO	2.4027	2.4027
11 1,2,3,4,7,8-PeCDF	30.60	4.257e5	2.768e5	1.54	NO	230.77	230.77
12 Total Penta-Furans	31.08	1.593e3	2.420e2	4.52	YES	0.20378	0.00000
13 Total Penta-Furans	31.72	1.972e4	1.305e4	1.51	NO	10.617	10.617
14 Total Penta-Furans	31.86	6.124e2	5.318e2	1.53	NO	0.44383	0.44383

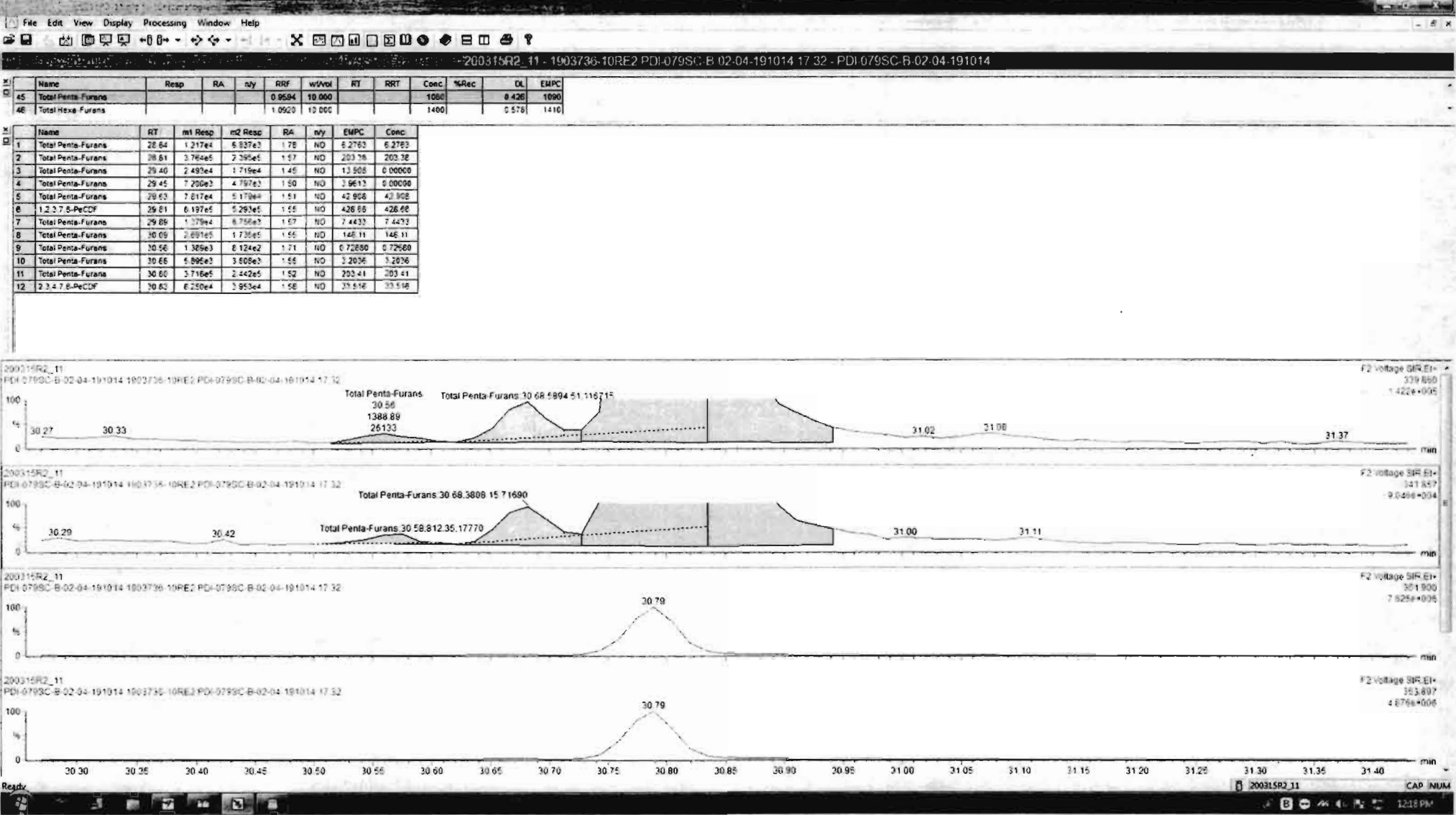


SI	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9584	10.000			1060		0.426	1100
46	Total Hexa-Furans				1.0920	10.000			1400		2.576	1410

SI	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.64	1.217e4	6.837e2	1.78	NO	6.2783	6.2783
2	Total Penta-Furans	28.61	2.764e5	2.395e5	1.57	NO	203.38	203.38
3	Total Penta-Furans	29.40	2.493e4	1.683e4	1.46	NO	13.791	0.00000
4	Total Penta-Furans	29.45	7.200e3	4.797e2	1.50	NO	3.9613	0.00000
5	Total Penta-Furans	29.63	7.817e4	5.179e4	1.51	NO	42.908	42.908
6	1,2,3,7,8-PeCDF	29.81	6.197e5	5.293e5	1.55	NO	428.66	428.66
7	Total Penta-Furans	29.89	1.779e4	8.756e3	1.57	NO	7.4433	7.4433
8	Total Penta-Furans	30.09	2.691e5	1.735e5	1.55	NO	146.11	146.11
9	Total Penta-Furans	30.56	1.149e3	6.955e2	1.65	NO	0.60906	0.60906
10	Total Penta-Furans	30.66	4.525e3	2.752e3	1.64	NO	2.4027	2.4027
11	2,3,4,7,8-PeCDF	30.60	4.257e5	2.768e5	1.54	NO	230.77	230.77
12	Total Penta-Furans	31.06	1.093e3	2.420e2	4.52	YES	0.26378	0.00000
13	Total Penta-Furans	31.72	1.972e4	1.305e4	1.51	NO	10.617	10.617
14	Total Penta-Furans	31.86	6.124e2	6.315e2	1.53	NO	0.44383	0.44383



Custom Reporting: Select reports to generate



Dataset: Untitled

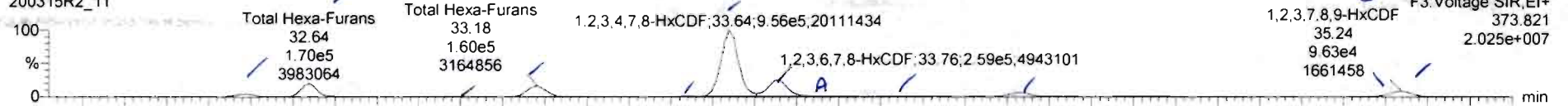
Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

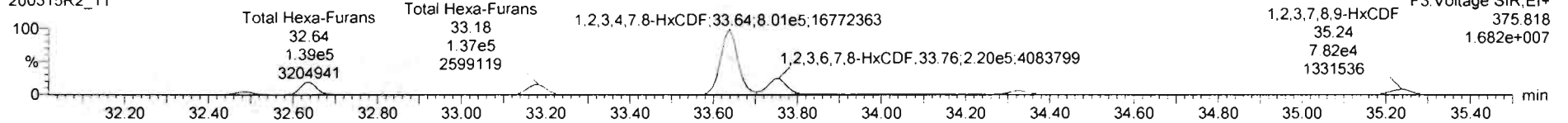
Name: 200315R2_11, Date: 15-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

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

200315R2_11

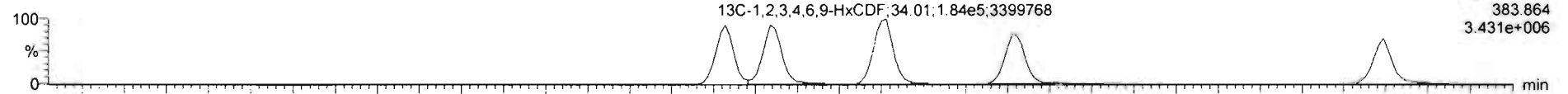


200315R2_11

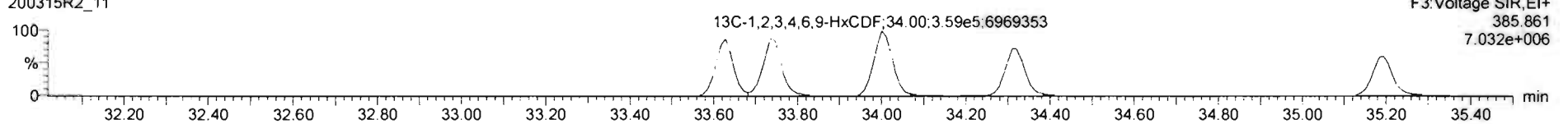


13C-1,2,3,4,7,8-HxCDF

200315R2_11

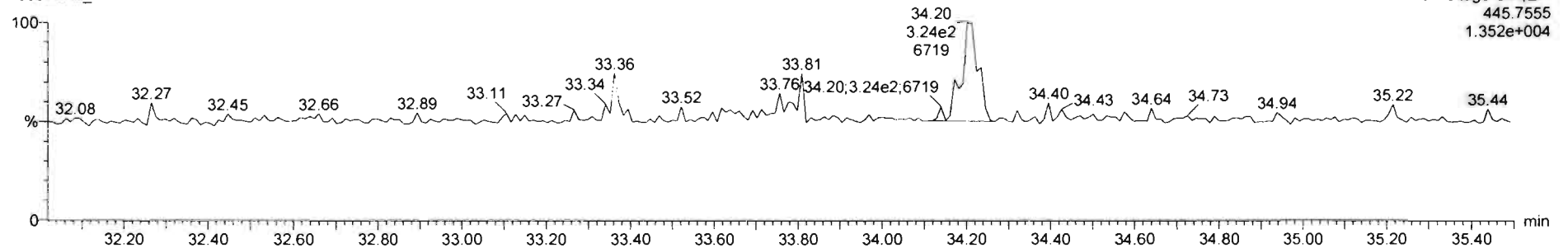


200315R2_11



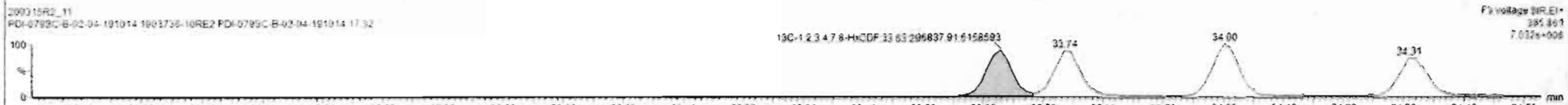
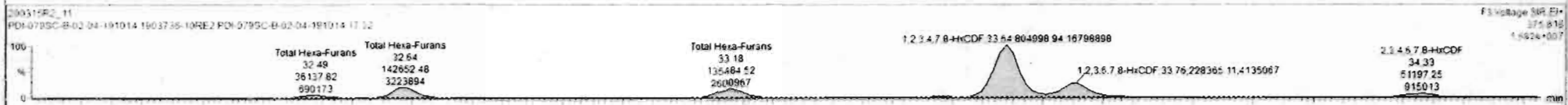
DPE3

200315R2_11



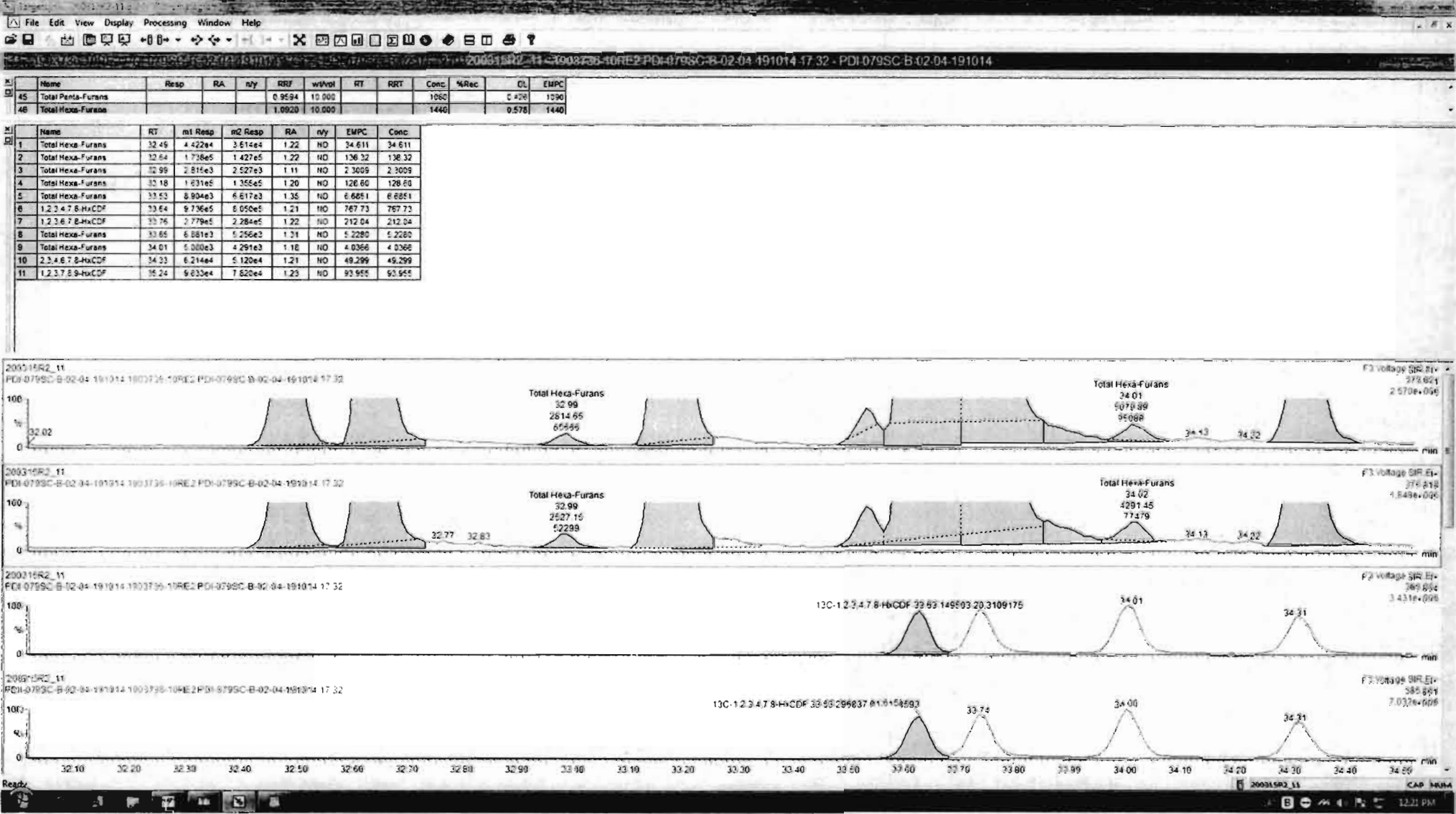
Name	Resp	RA	rvy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9584	10.000			1060		0.426	1090
46 Total Hexa-Furans				1.0920	10.000			1440		0.578	1440

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1 Total Hexa-Furans	32.49	4.422e4	3.614e4	1.22	NO	34.611	34.611
2 Total Hexa-Furans	32.64	1.738e5	1.427e5	1.22	NO	136.32	136.32
3 Total Hexa-Furans	32.69	2.815e3	2.527e3	1.11	NO	2.3009	2.3009
4 Total Hexa-Furans	32.18	1.631e5	1.355e5	1.20	NO	126.60	126.60
5 Total Hexa-Furans	32.53	8.904e3	6.617e3	1.35	NO	6.6851	6.6851
6 1,2,3,4,7,8-HxCDF	32.64	9.736e5	6.050e5	1.21	NO	767.73	767.73
7 1,2,3,6,7,8-HxCDF	33.76	2.779e5	2.284e5	1.22	NO	212.04	212.04
8 Total Hexa-Furans	33.85	6.681e3	5.256e3	1.31	NO	5.2280	5.2280
9 Total Hexa-Furans	34.01	5.000e3	4.291e3	1.18	NO	4.0366	4.0366
10 2,3,4,6,7,8-HxCDF	34.33	6.214e4	5.120e4	1.21	NO	49.299	49.299
11 1,2,3,7,8,9-HxCDF	35.24	5.633e4	7.620e4	1.23	NO	91.955	91.955



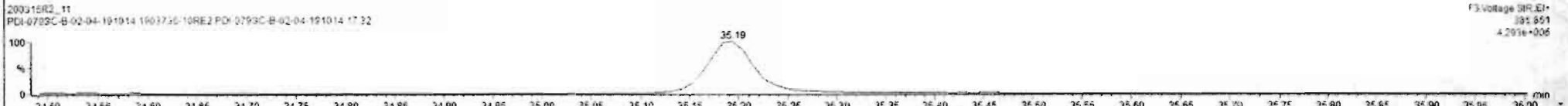
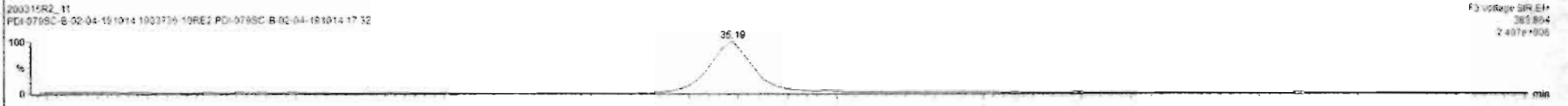
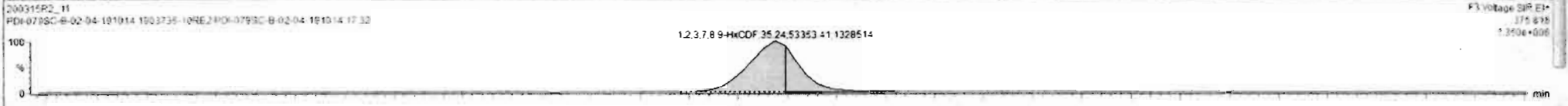
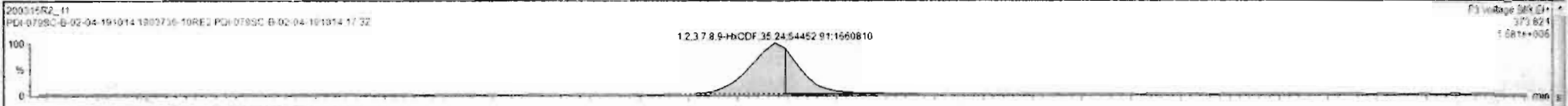
Custom Reporting: Select reports to generate

200315R2_11 CAP NUM



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.000			1060		0.426	1090
46 Total Hexa-Furans				1.0920	10.000			1430		0.578	1430

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.49	4.422e4	3.614e4	1.22	NO	34.611	34.611
2 Total Hexa-Furans	32.64	1.738e5	1.427e5	1.22	NO	156.32	156.32
3 Total Hexa-Furans	32.99	2.815e2	2.527e3	1.11	NO	2.3009	2.3009
4 Total Hexa-Furans	32.18	1.631e5	1.355e5	1.20	NO	126.60	126.60
5 Total Hexa-Furans	32.52	8.904e3	6.817e2	1.25	NO	6.6851	6.6851
6 1,2,3,4,7,8-HxCDF	32.64	9.735e5	6.058e5	1.21	NO	767.73	767.73
7 1,2,3,6,7,8-HxCDF	32.76	2.779e5	2.284e5	1.22	NO	212.04	212.04
8 Total Hexa-Furans	32.86	6.881e3	5.256e2	1.31	NO	5.2280	5.2280
9 Total Hexa-Furans	34.01	5.000e3	4.251e3	1.16	NO	4.0366	4.0366
10 2,3,4,6,7,8-HxCDF	34.23	6.214e4	5.120e4	1.21	NO	49.299	49.299
11 1,2,3,7,8,9-HxCDF	35.24	5.445e4	4.335e4	1.21	NO	63.418	63.418
12 Total Hexa-Furans	35.25	3.198e4	2.439e4	1.31	NO	24.280	24.280



Dataset: Untitled

Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

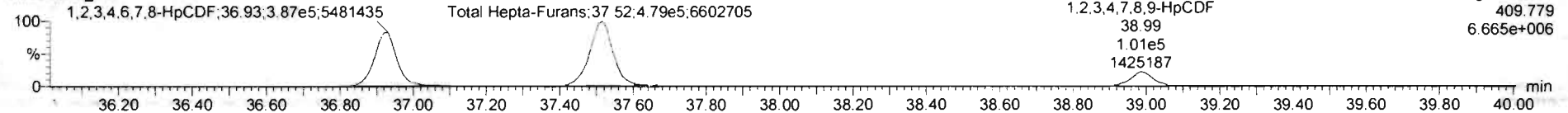
Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

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

200315R2_11



200315R2_11

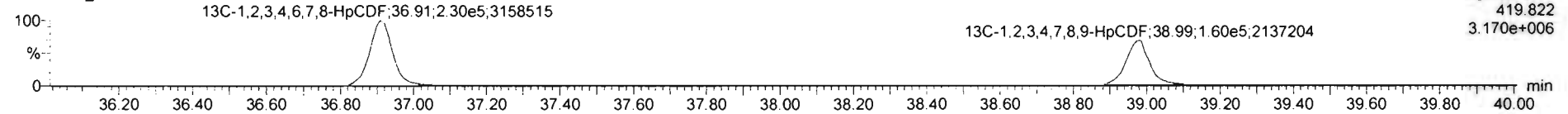


13C-1,2,3,4,6,7,8-HpCDF

200315R2_11

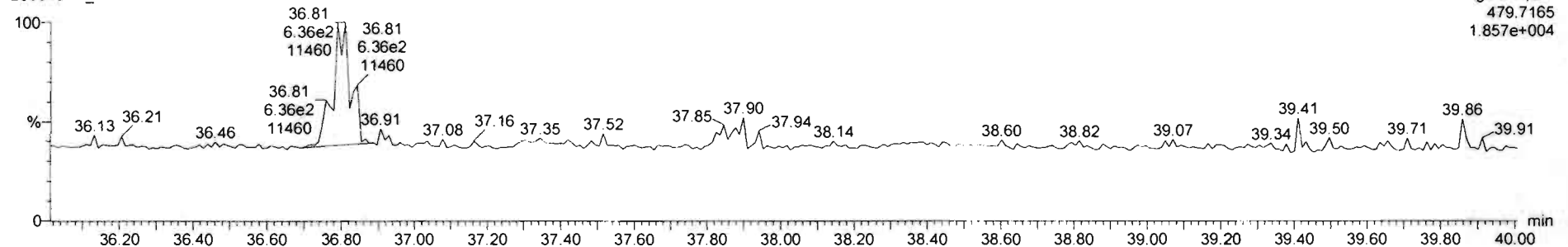


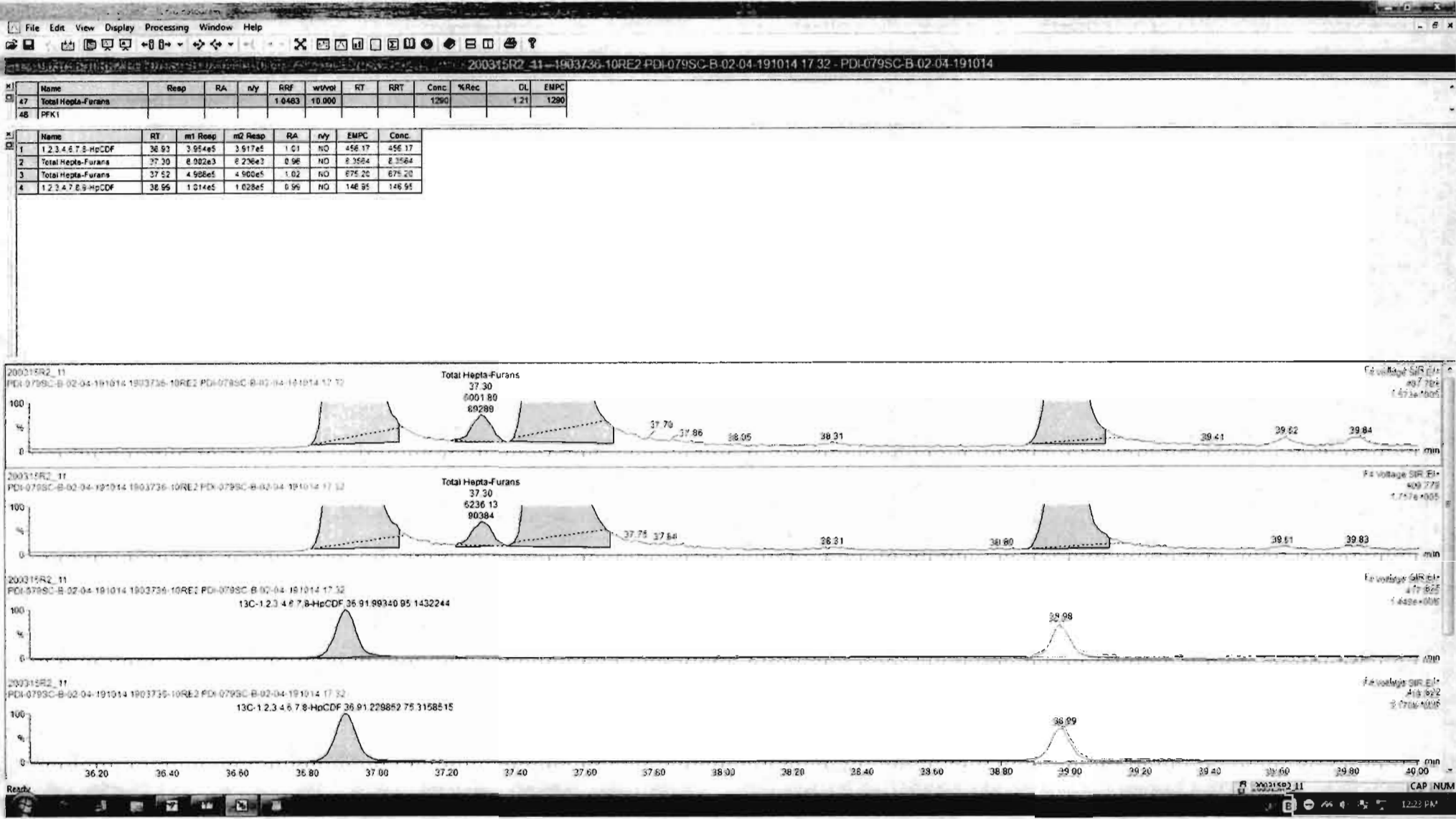
200315R2_11



DPE4

200315R2_11

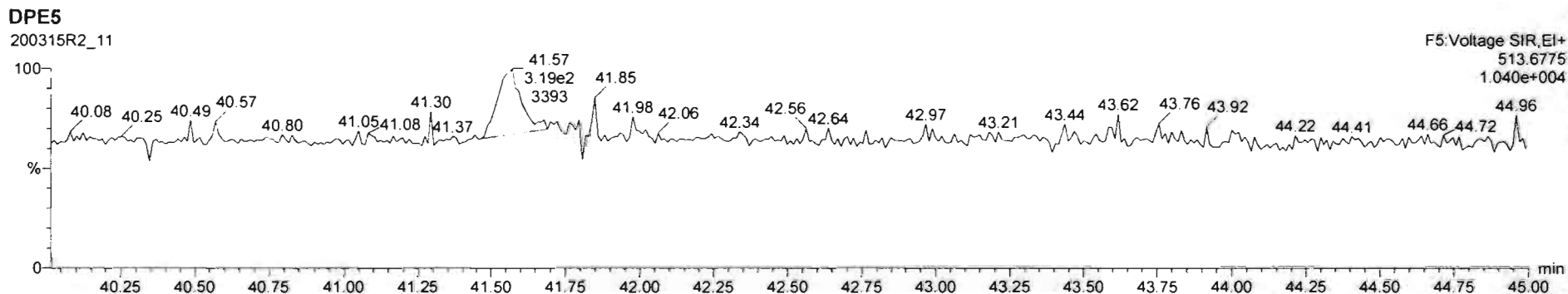
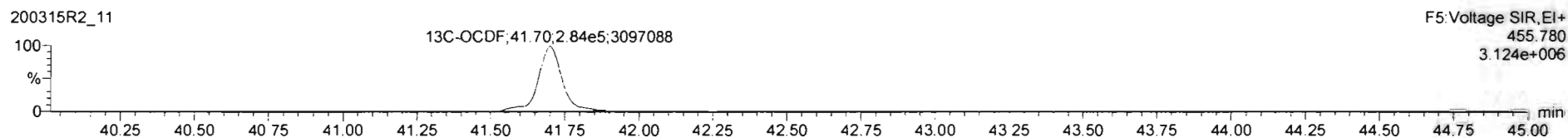
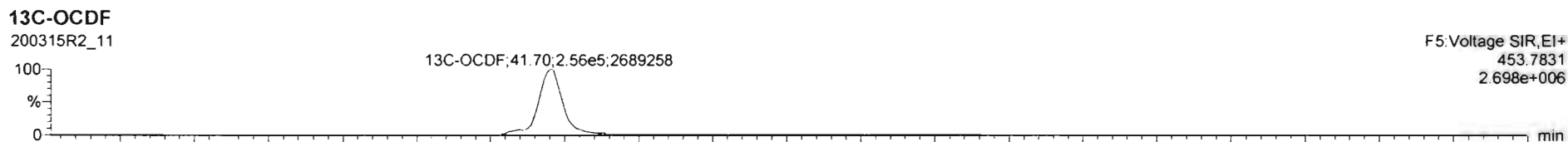
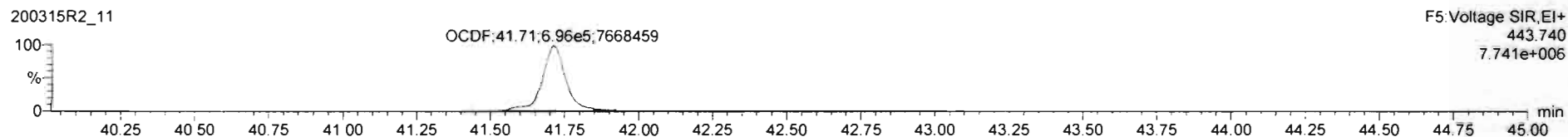
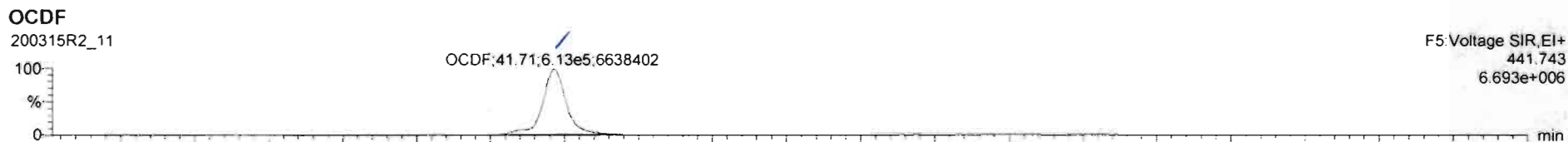




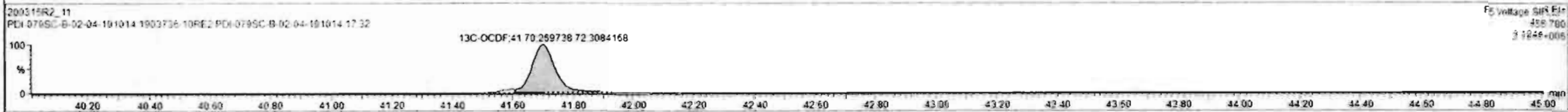
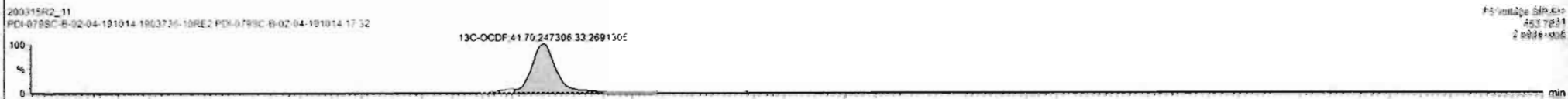
Dataset: Untitled

Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time
Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014



Name	Resp	RA	dy	RRF	wtdvol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	6.14e3	0.72	NO	0.98	10.000	26.08	1.001	2.29		0.674	2.29
2 1,2,3,7,8-PeCDD	8.79e3	0.61	NO	0.92	10.000	21.09	1.000	3.94		0.124	3.94
3 1,2,3,4,7,8-HxCDD	1.04e4	1.25	NO	1.12	10.000	24.45	1.000	5.37		0.298	5.37
4 1,2,3,6,7,8-HxCDD	5.55e4	1.28	NO	0.98	10.000	24.60	1.000	28.0		0.400	28.0
5 1,2,3,7,8,9-HxCDD	2.35e4	1.30	NO	0.97	10.000	24.60	1.000	13.0		0.397	13.0
6 1,2,3,4,6,7,8-HpCDD	1.96e6	1.03	NO	1.01	10.000	35.35	1.000	1260		1.94	1260
7 OCDF	1.51e7	0.89	NO	1.05	10.000	41.54	1.000	15300		4.22	15300
8 2,3,7,8-TCDF	6.22e5	0.76	NO	0.92	10.000	25.11	1.001	244		0.521	244
9 1,2,3,7,8-PeCDF	1.33e6	1.54	NO	0.96	10.000	29.61	1.001	424		0.435	424
10 2,3,4,7,8-PeCDF	7.02e5	1.54	NO	1.00	10.000	30.60	1.000	231		0.298	231
11 1,2,3,4,7,8-HxCDF	1.76e6	1.19	NO	1.04	10.000	33.64	1.000	758		0.538	758
12 1,2,3,6,7,8-HxCDF	4.80e5	1.18	NO	1.01	10.000	33.76	1.001	201		0.556	201
13 2,3,4,6,7,8-HxCDF	1.13e5	1.21	NO	1.09	10.000	34.33	1.001	49.3		0.616	49.3
14 1,2,3,7,8,9-HpCDF	1.75e5	1.23	NO	1.03	10.000	35.24	1.001	94.0		0.727	94.0
15 1,2,3,4,6,7,8-HpCDF	7.76e5	1.01	NO	1.05	10.000	36.93	1.001	450		1.02	450
16 1,2,3,4,7,8,9-HpCDF	2.01e5	0.99	NO	1.21	10.000	38.66	1.000	145		1.28	145
17 OCDF	1.24e6	0.90	NO	0.95	10.000	41.71	1.000	1620		1.09	1620
18 13C-2,3,7,8-TCDD	5.44e5	0.76	NO	1.16	10.000	26.07	1.030	140	69.8	0.369	
19 13C-1,2,3,7,8-PeCDD	4.84e5	0.62	NO	0.86	10.000	21.08	1.228	170	85.1	0.500	
20 13C-1,2,3,4,7,8-HxCDD	3.41e5	1.26	NO	0.75	10.000	24.48	1.014	167	83.4	0.618	
21 13C-1,2,3,6,7,8-HxCDD	4.04e5	1.27	NO	0.93	10.000	34.59	1.017	161	80.3	0.502	

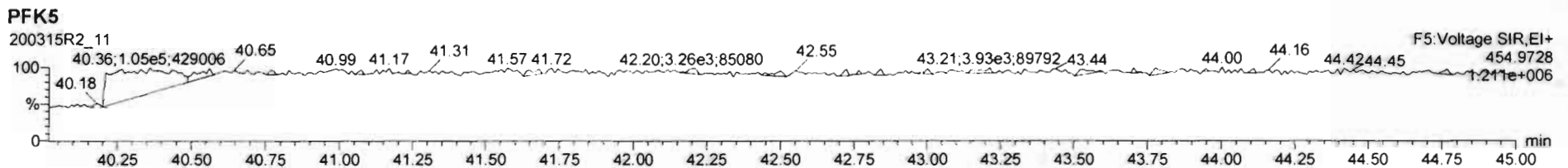
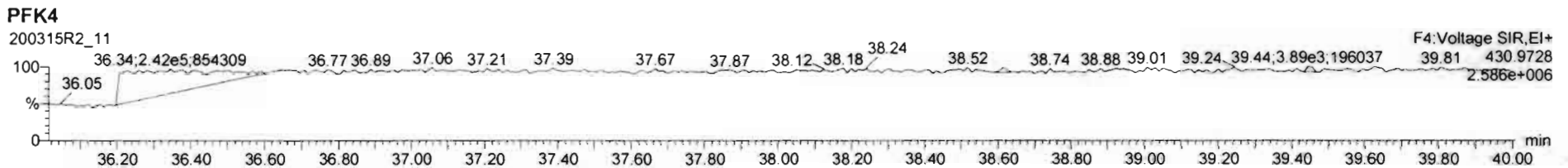
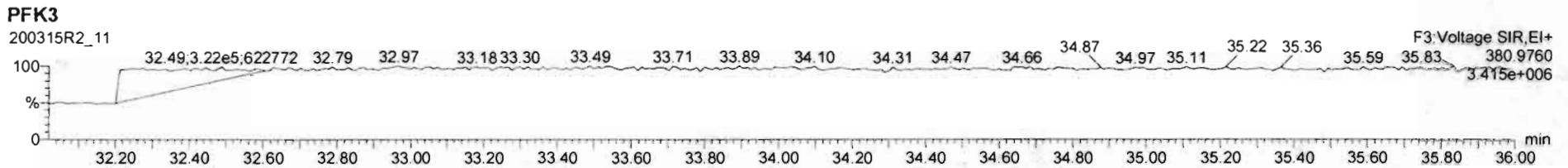
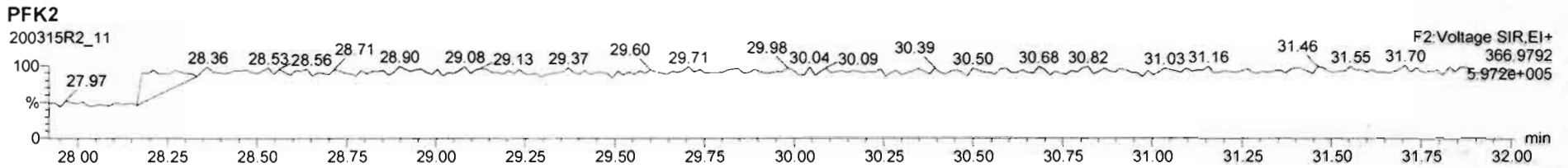
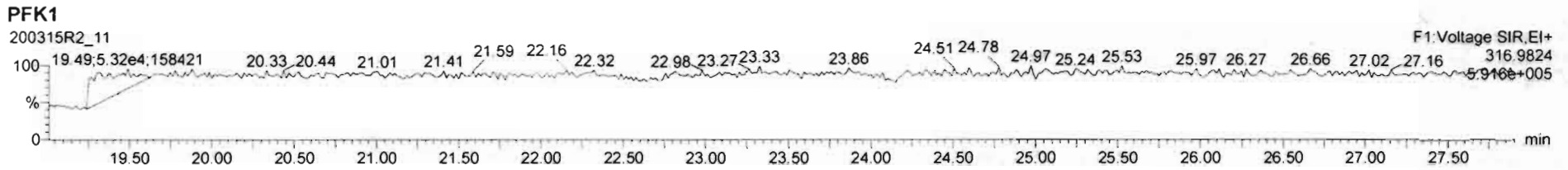


Dataset: Untitled

Last Altered: Monday, March 16, 2020 09:02:29 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:03:01 Pacific Daylight Time

Name: 200315R2_11, Date: 16-Mar-2020, Time: 07:55:21, ID: 1903736-10RE2 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014



Dataset: U:\VG12.PRO\Results\200315R2\200315R2-12.qld

Last Altered: Monday, March 16, 2020 10:06:25 Pacific Daylight Time
Printed: Monday, March 16, 2020 13:34:45 Pacific Daylight Time

GRB 03/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

C_T 03/27/2020

Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	3.23e6	0.88	NO	1.05	10.000	41.478	41.49	1.000	1.000	15785		4.95	15800
2	24 13C-OCDD	7.77e4	0.88	NO	0.571	10.000	41.432	41.48	1.219	1.221	244.17	61.0	1.23	
3	35 37Cl-2,3,7,8-TCDD	4.54e4			1.17	10.000	25.806	25.84	1.029	1.030	56.794	71.0	1.87	
4	36 13C-1,2,3,4-TCDD	1.36e5	0.77	NO	1.00	10.000	25.050	25.08	1.000	1.000	200.00	100	7.67	
5	37 13C-1,2,3,4-TCDF	1.96e5	0.79	NO	1.00	10.000	23.190	23.24	1.000	1.000	200.00	100	11.7	
6	38 13C-1,2,3,4,6,9-HxCDF	1.11e5	0.51	NO	1.00	10.000	33.880	33.98	1.000	1.000	200.00	100	1.20	

Dataset: Untitled

Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

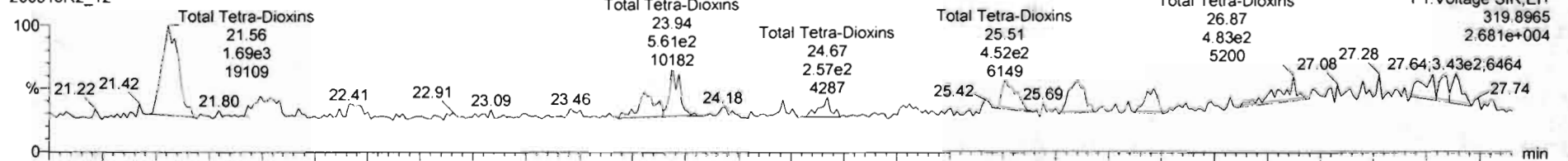
Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

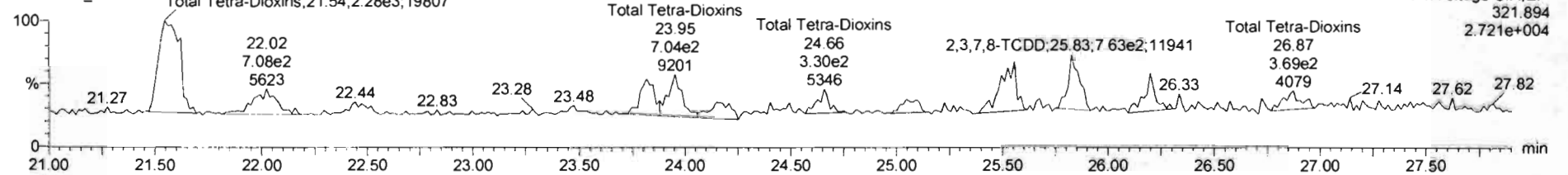
Sample Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

2,3,7,8-TCDD

200315R2_12

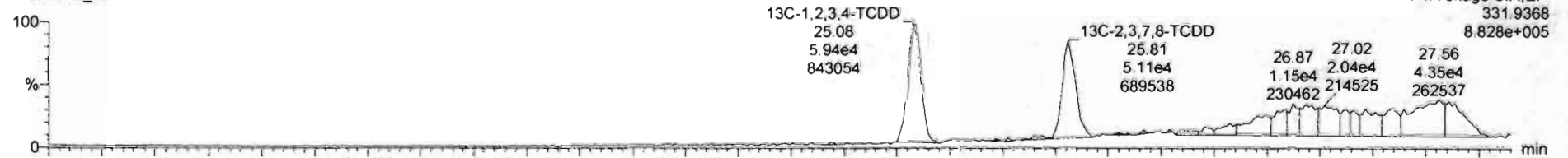


200315R2_12

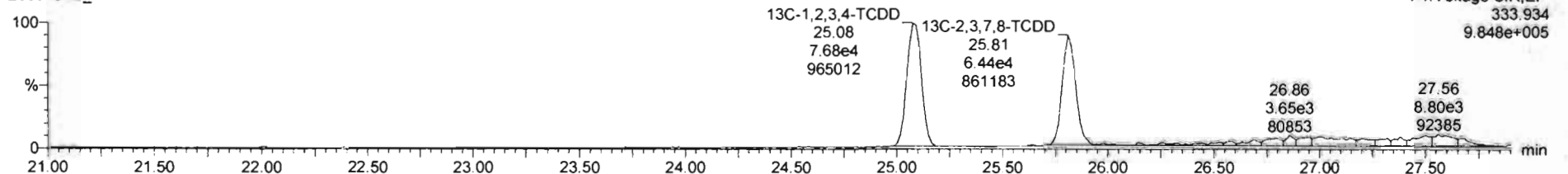


13C-2,3,7,8-TCDD

200315R2_12



200315R2_12



Dataset: Untitled

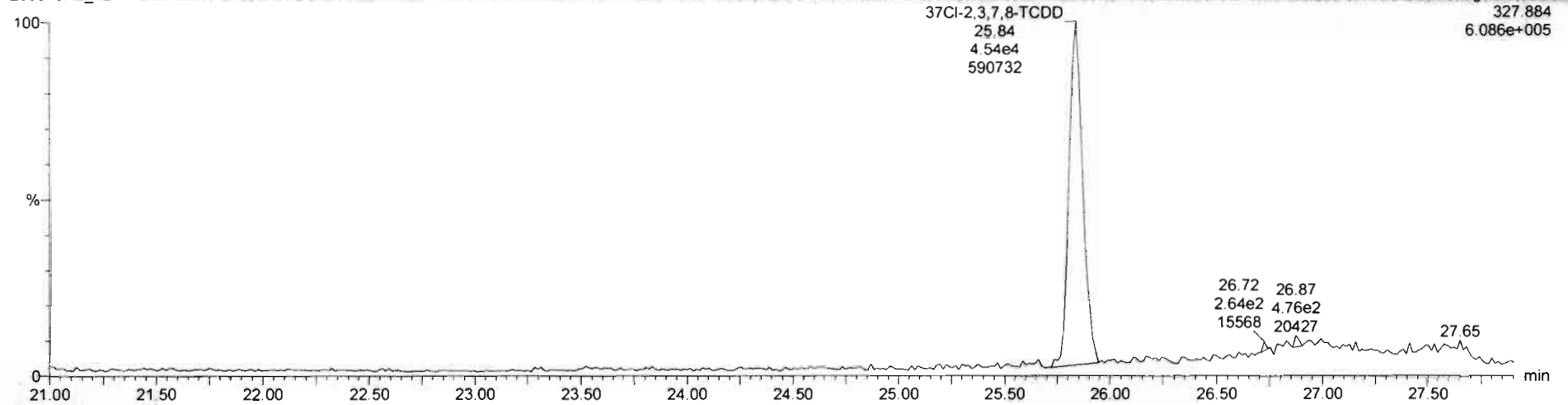
Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014.17.32, Description: PDI-079SC-B-02-04-191014

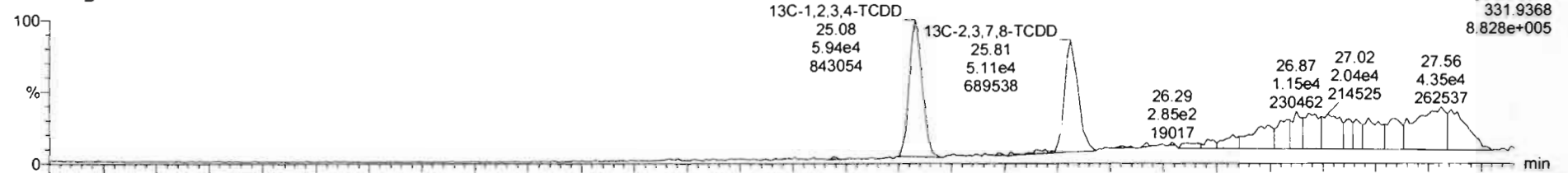
37Cl-2,3,7,8-TCDD

200315R2_12

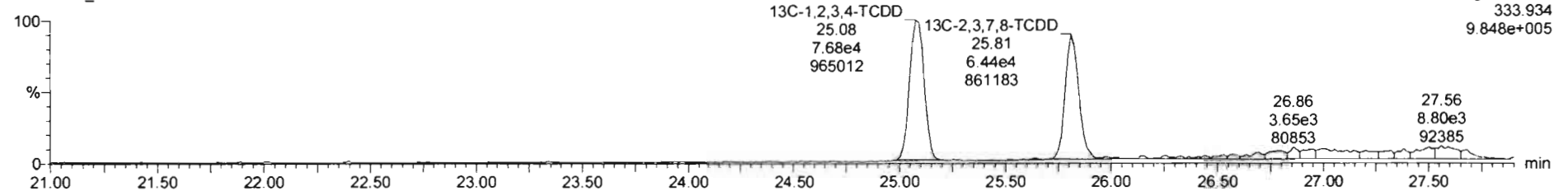


13C-1,2,3,4-TCDD

200315R2_12



200315R2_12



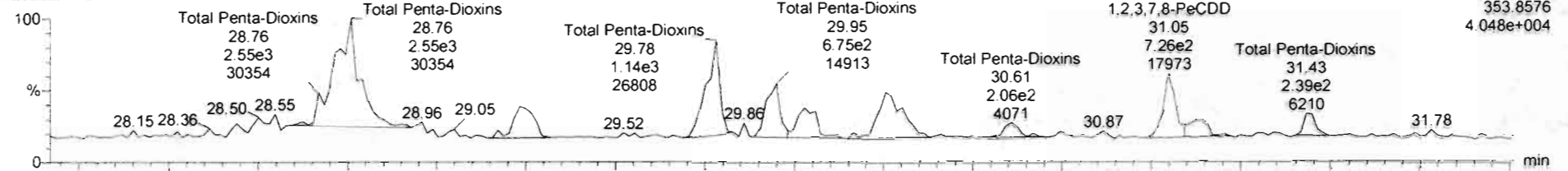
Dataset: Untitled

Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time
Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

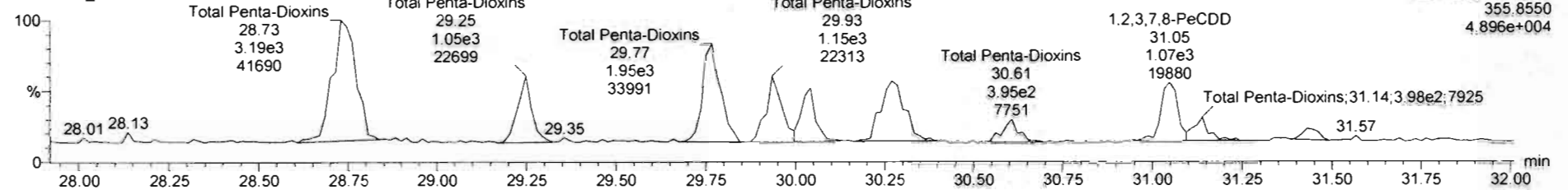
Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

1,2,3,7,8-PeCDD

200315R2_12

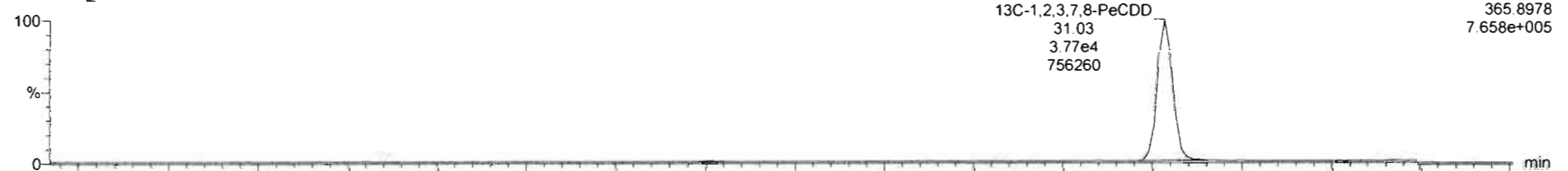


200315R2_12

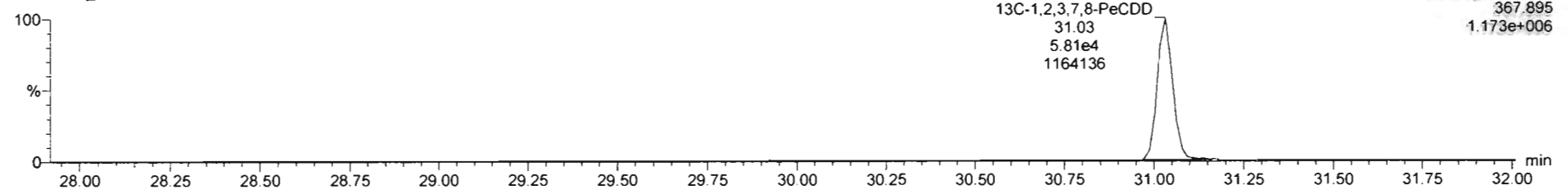


13C-1,2,3,7,8-PeCDD

200315R2_12



200315R2_12



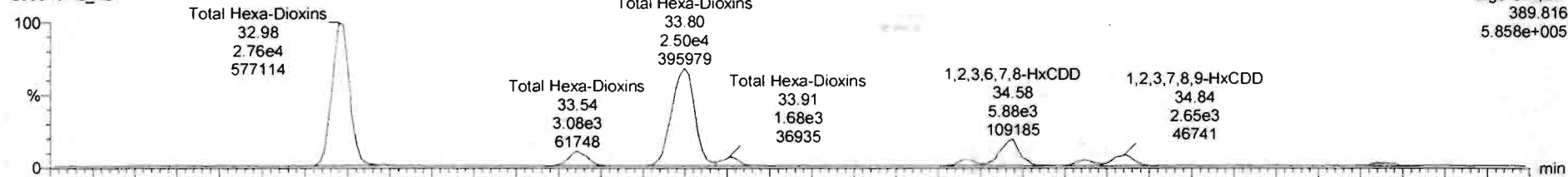
Dataset: Untitled

Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time
Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

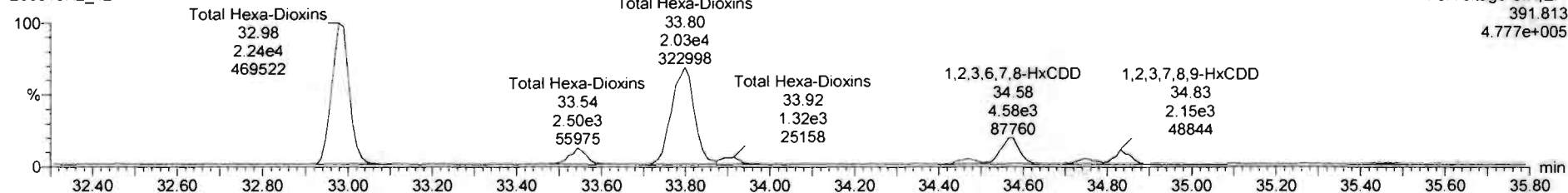
Name: 200315R2_12; Date: 16-Mar-2020; Time: 08:42:54; ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32; Description: PDI-079SC-B-02-04-191014

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

200315R2_12

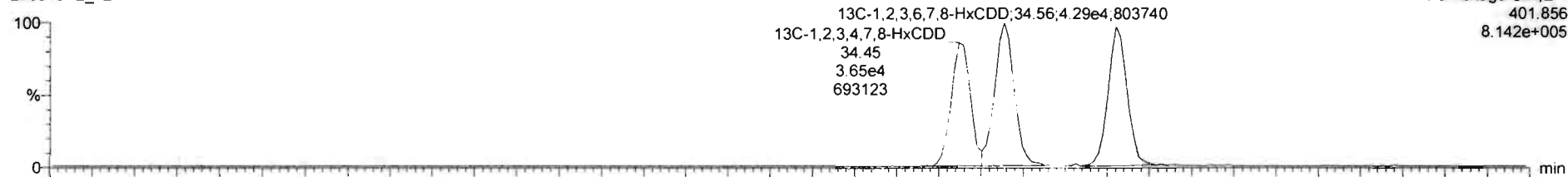


200315R2_12

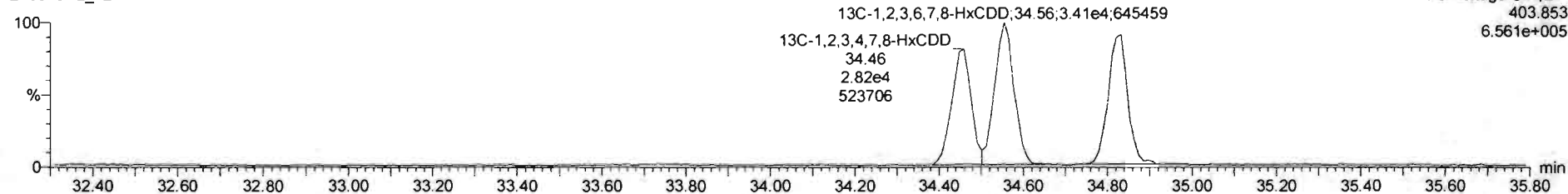


13C-1,2,3,4,7,8-HxCDD

200315R2_12



200315R2_12



Dataset: Untitled

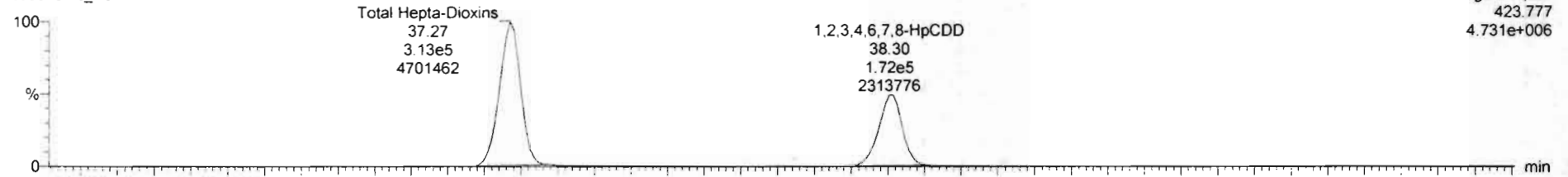
Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

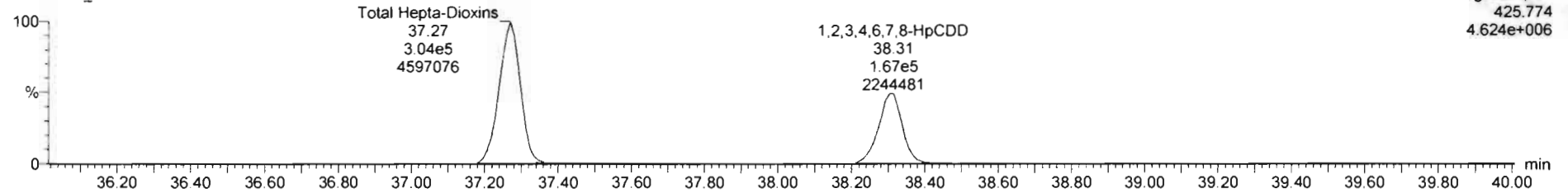
Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

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

200315R2_12

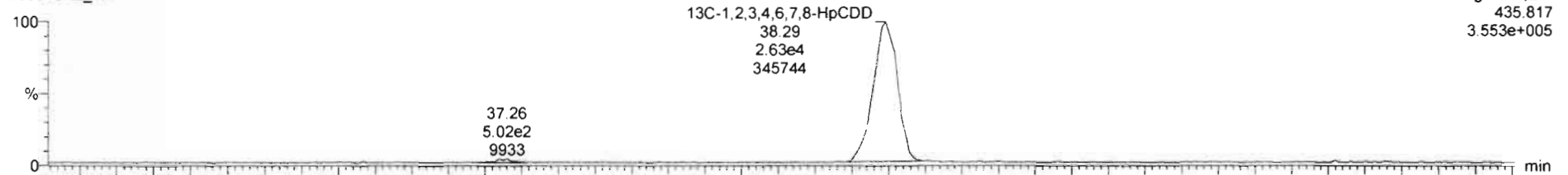


200315R2_12

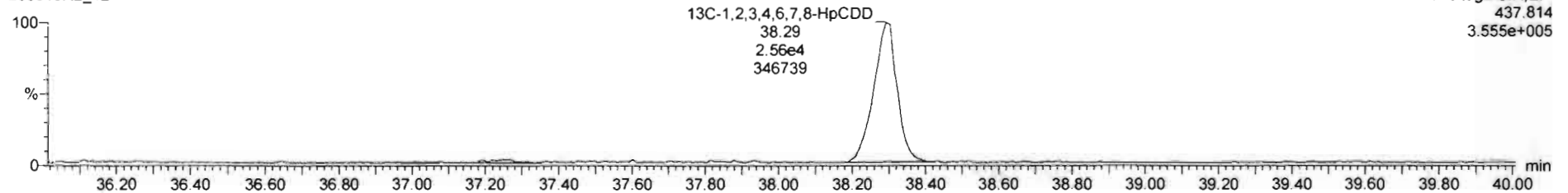


13C-1,2,3,4,6,7,8-HpCDD

200315R2_12



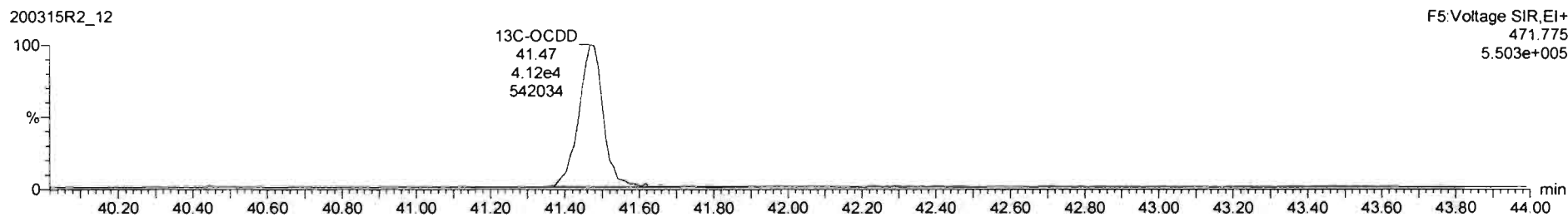
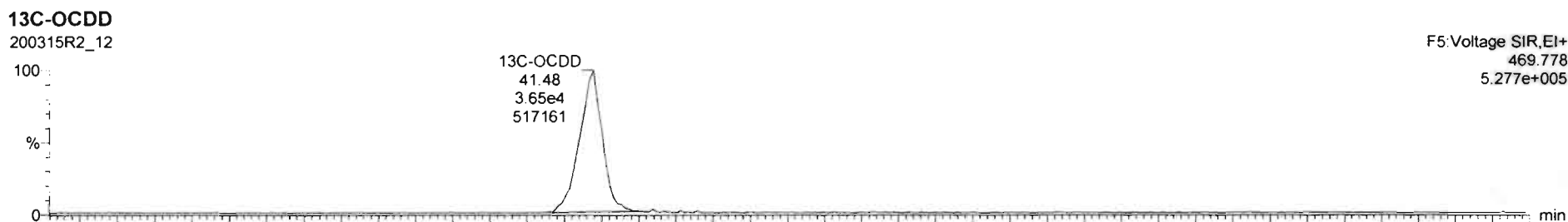
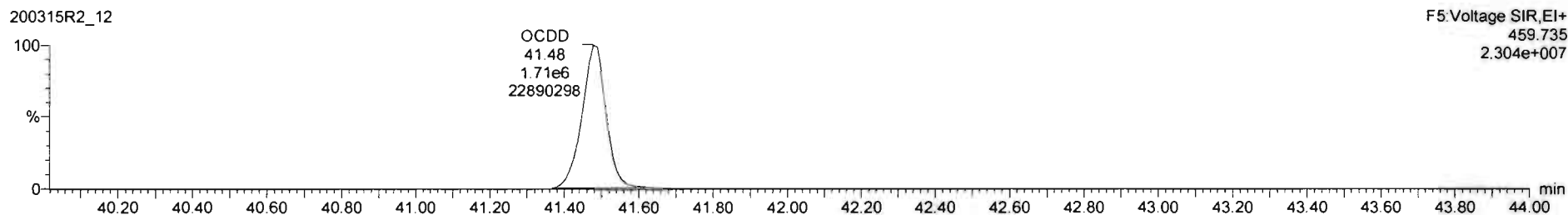
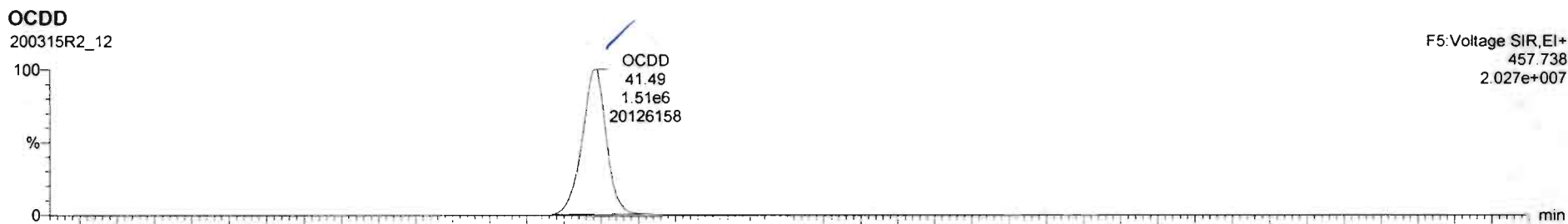
200315R2_12



Dataset: Untitled

Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time
Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

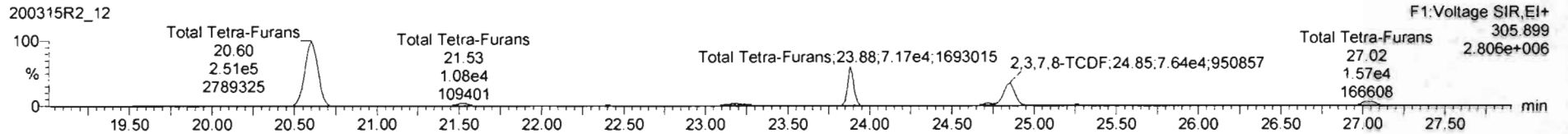
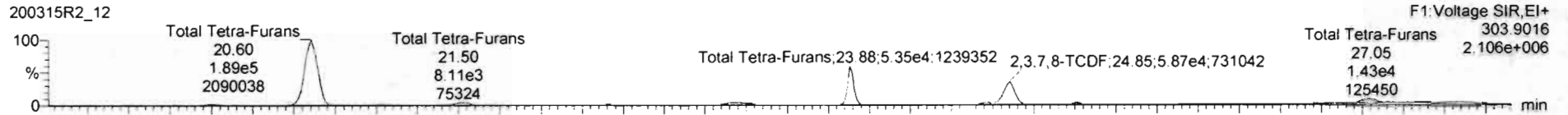


Dataset: Untitled

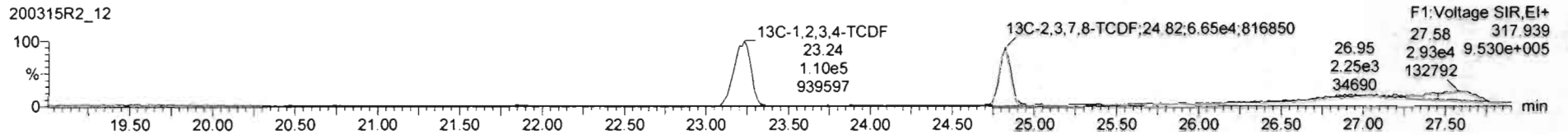
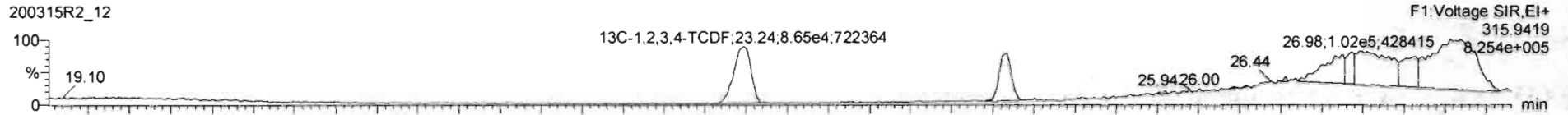
Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time
Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

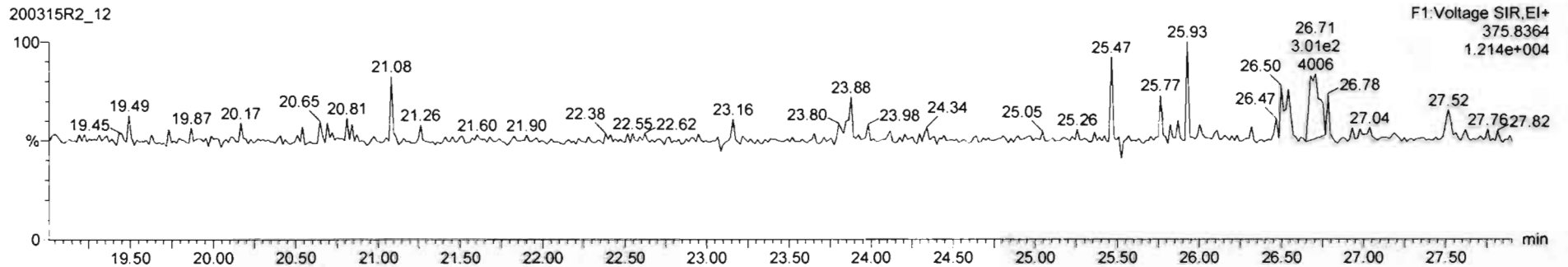
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

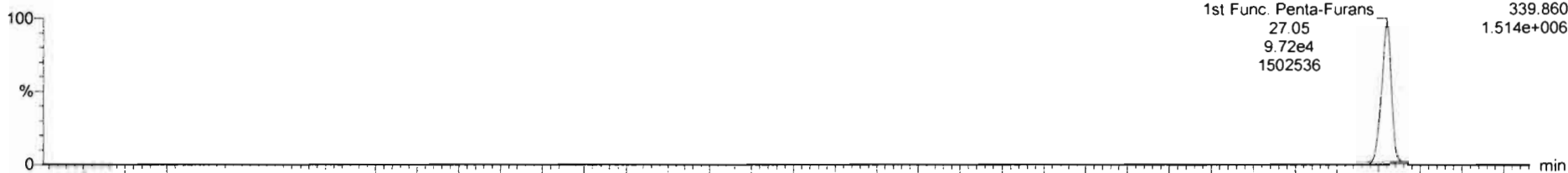
Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

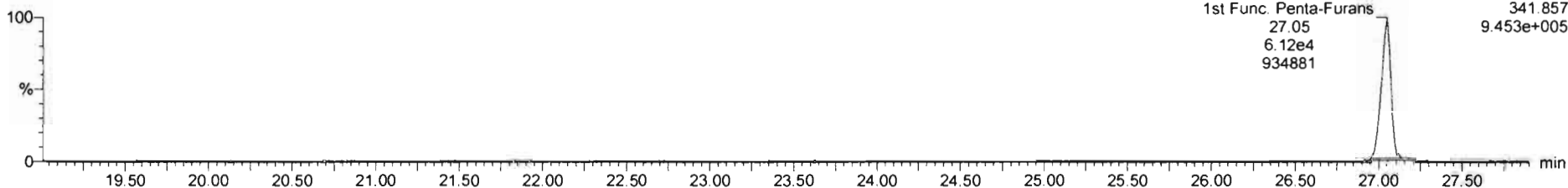
Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

1st Func. Penta-Furans

200315R2_12

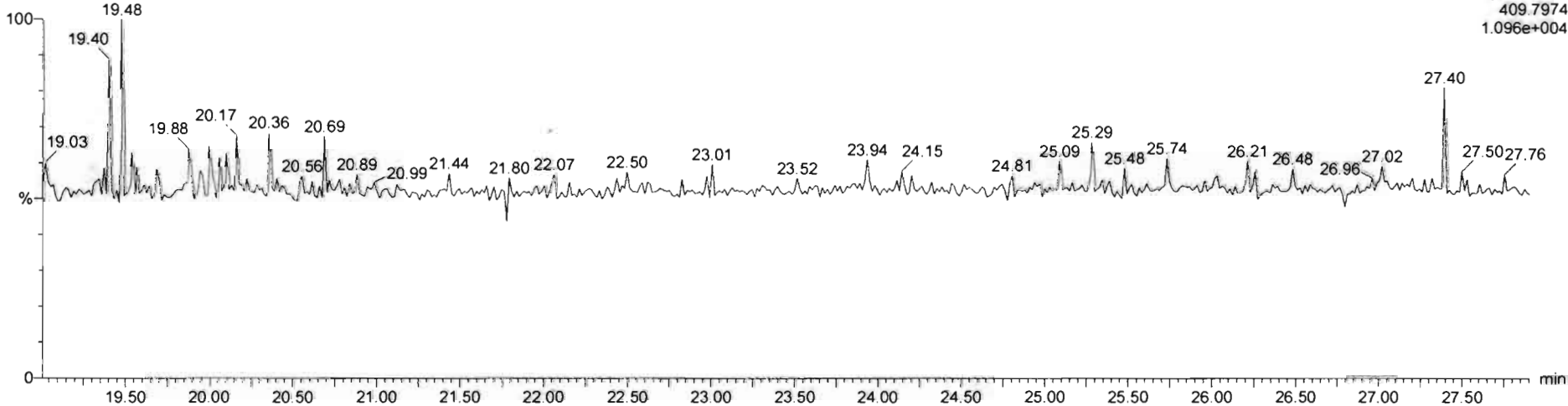


200315R2_12



DPE6

200315R2_12



Dataset: Untitled

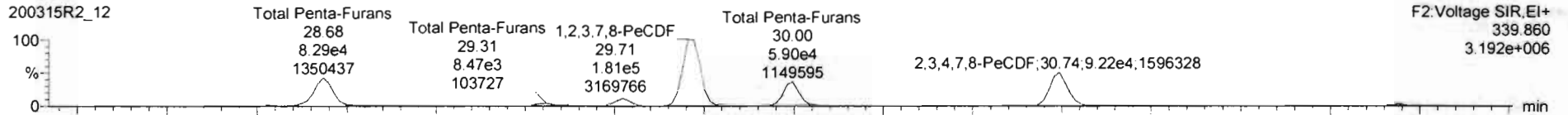
Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

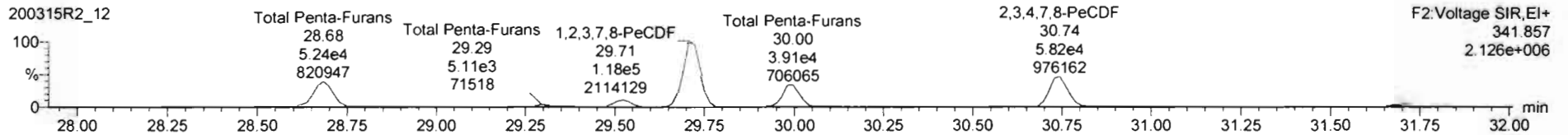
Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

1,2,3,7,8-PeCDF

200315R2_12

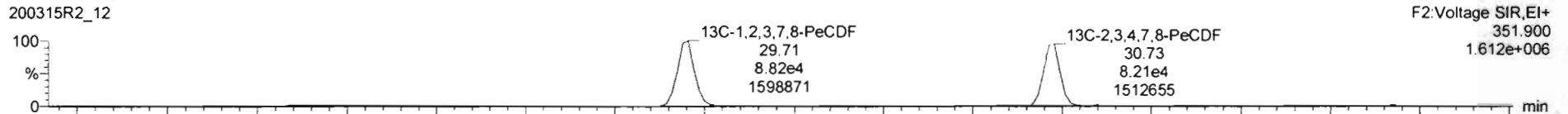


200315R2_12

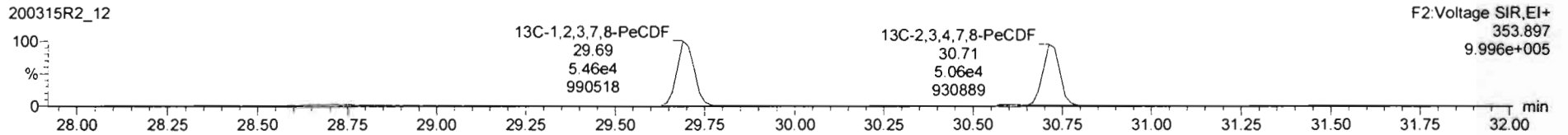


¹³C-1,2,3,7,8-PeCDF

200315R2_12

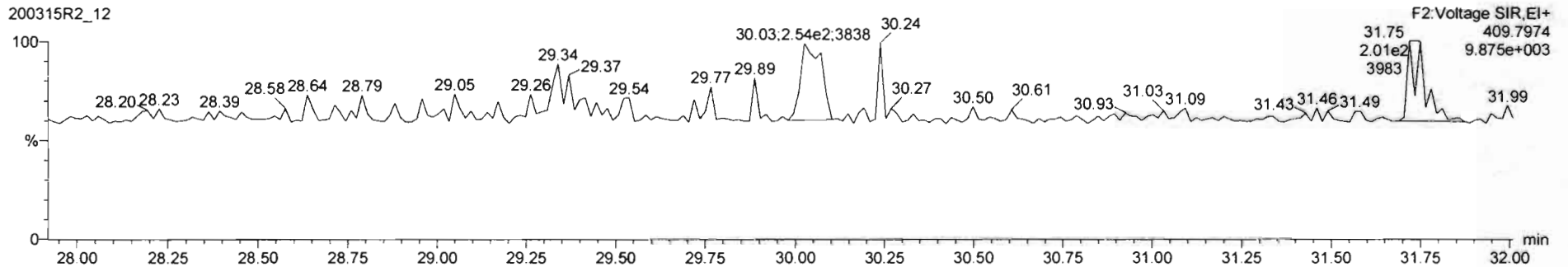


200315R2_12



DPE2

200315R2_12



Dataset: Untitled

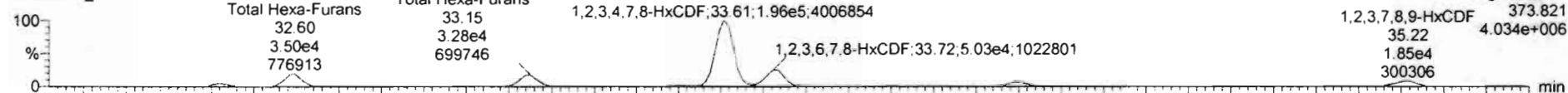
Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

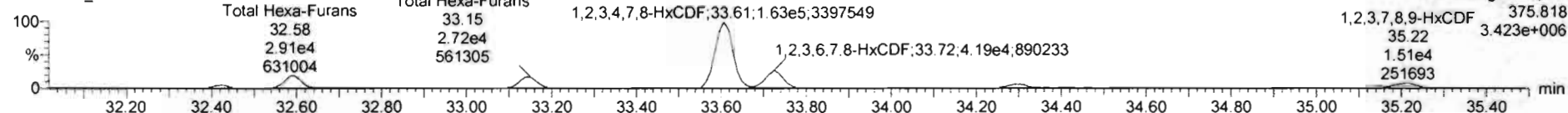
Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

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

200315R2_12

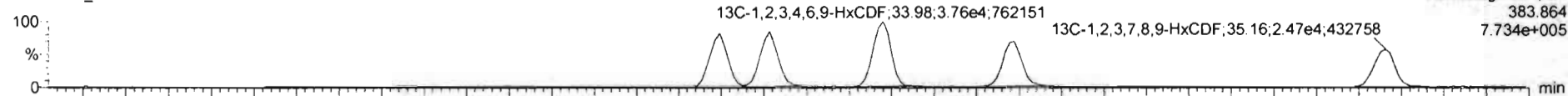


200315R2_12

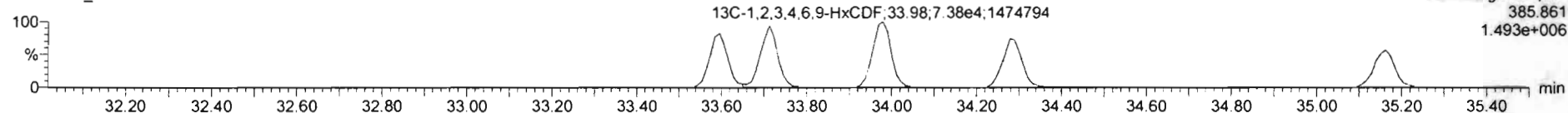


13C-1,2,3,4,7,8-HxCDF

200315R2_12

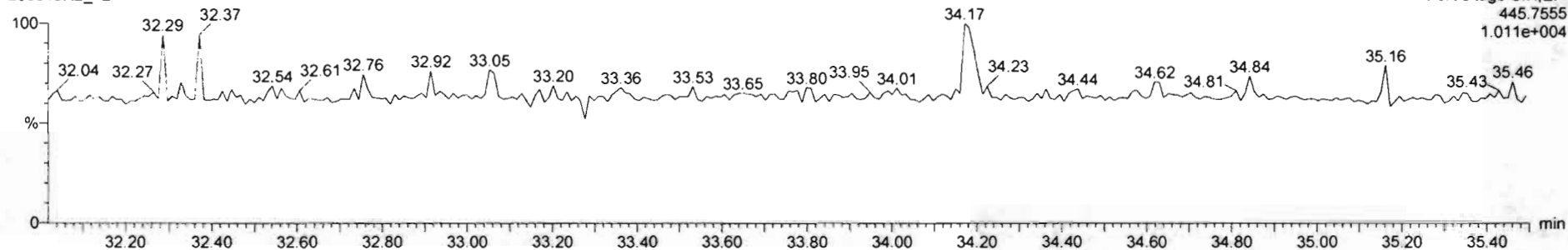


200315R2_12



DPE3

200315R2_12



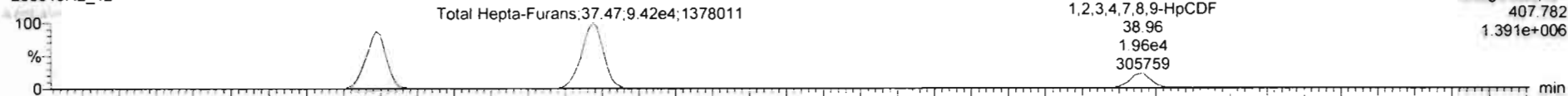
Dataset: Untitled

Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time
Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

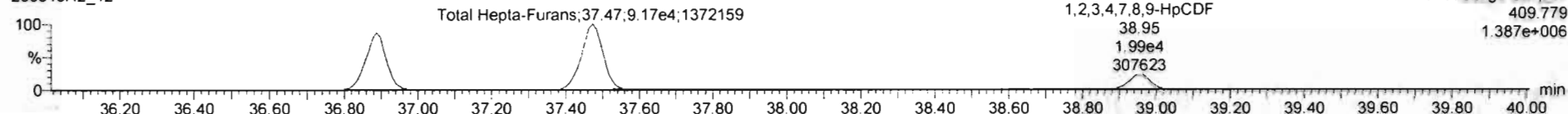
Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

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

200315R2_12

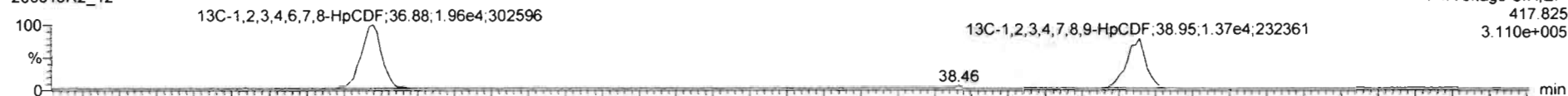


200315R2_12

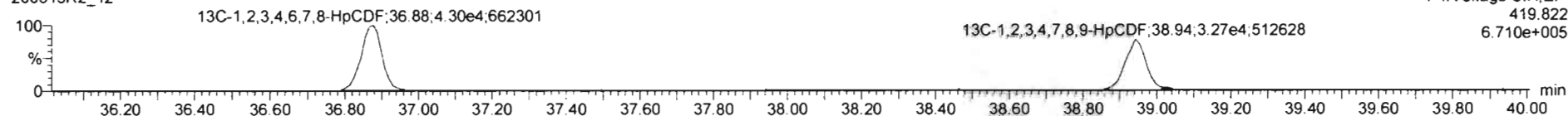


13C-1,2,3,4,6,7,8-HpCDF

200315R2_12

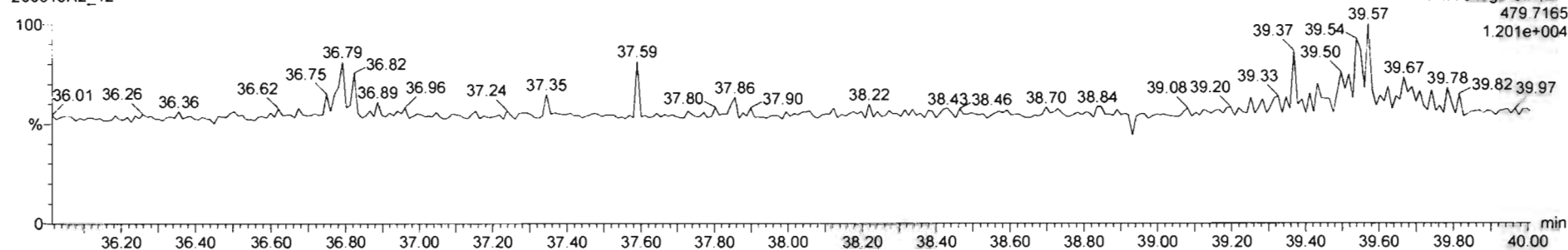


200315R2_12



DPE4

200315R2_12

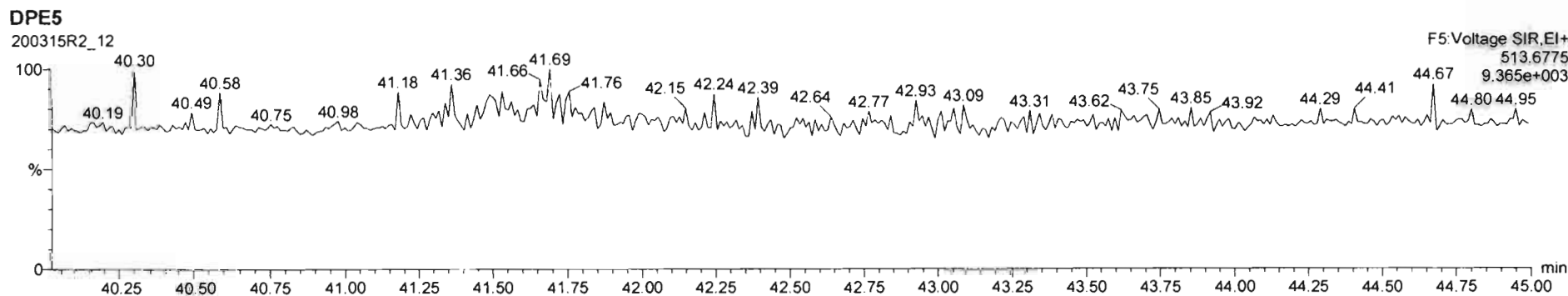
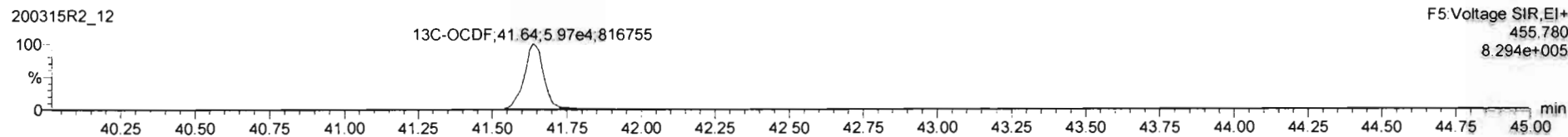
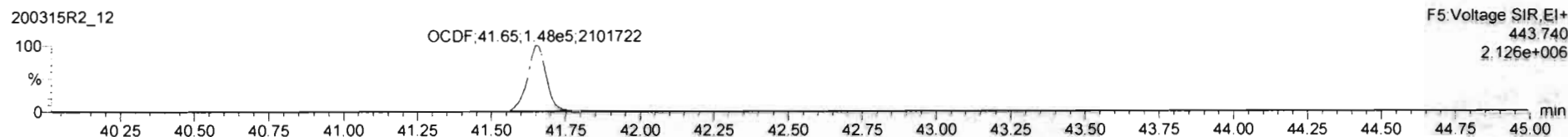


Dataset: Untitled

Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

Sample Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

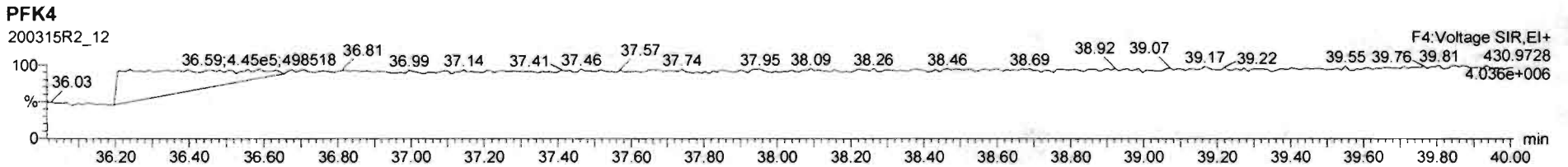
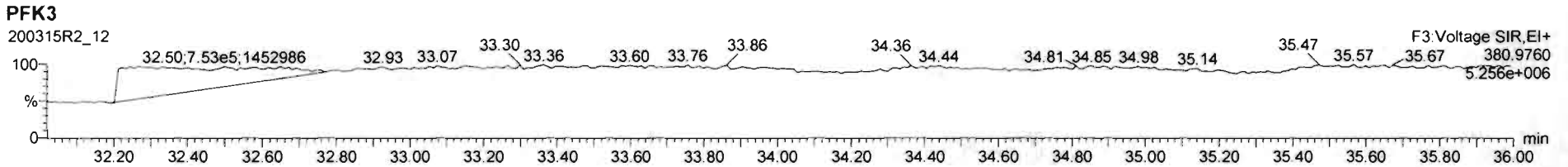
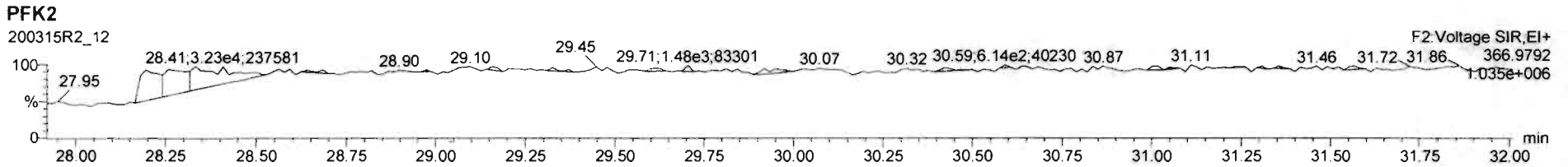
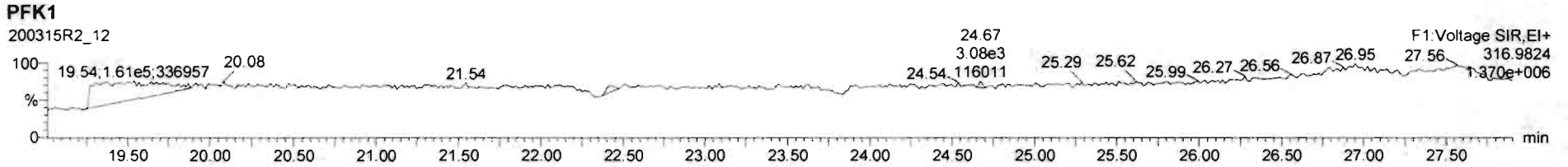


Dataset: Untitled

Last Altered: Monday, March 16, 2020 10:09:46 Pacific Daylight Time

Printed: Monday, March 16, 2020 10:10:29 Pacific Daylight Time

Name: 200315R2_12, Date: 16-Mar-2020, Time: 08:42:54, ID: 1903736-10RE2@5X PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014



Dataset: U:\VG12.PRO\Results\200223R3\200223R3-14.qld

Last Altered: Wednesday, March 18, 2020 08:59:07 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 09:07:46 Pacific Daylight Time

Jy 03-18-2020
** see dilution*

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

de 3/21/20

Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

#	Name	Area	IS Area	RA	n/y	WL/Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.14e4	1.76e6	0.751	NO	9.92	25.75	25.74	1.00	1.00	NO	1.3154		0.069	1.3154
2	2 1,2,3,7,8-PeCDD	1.45e4	1.54e6	0.656	NO	9.92	30.83	30.82	1.00	1.00	NO	1.9508		0.105	1.9508
3	3 1,2,3,4,7,8-HxCDD	7.07e4	1.20e6	1.254	NO	9.92	34.20	34.20	1.00	1.00	NO	11.083		0.378	11.083
4	4 1,2,3,6,7,8-HxCDD	3.61e5	1.42e6	1.253	NO	9.92	34.28	34.30	1.00	1.00	NO	55.655		0.394	55.655
5	5 1,2,3,7,8,9-HxCDD	1.66e5	1.35e6	1.269	NO	9.92	34.59	34.57	1.00	1.00	NO	26.981		0.431	26.981
6	6 1,2,3,4,6,7,8-HpCDD	1.55e7	1.20e6	1.030	NO	9.92	38.07	38.08	1.00	1.00	NO	2841.3		1.737	2841.3
7	7 OCDD	5.80e7	2.06e6	0.884	NO	9.92	41.17	41.18	1.00	1.00	NO	11688		0.843	11688
8	8 2,3,7,8-TCDF	1.20e6	2.21e6	0.757	NO	9.92	24.80	24.81	1.00	1.00	NO	136.51	<i>(128.5)</i>	0.148	136.51
9	9 1,2,3,7,8-PeCDF	1.79e6	2.05e6	1.537	NO	9.92	29.53	29.52	1.00	1.00	NO	194.66		0.103	194.66
10	10 2,3,4,7,8-PeCDF	1.10e6	1.97e6	1.539	NO	9.92	30.53	30.51	1.00	1.00	NO	118.28		0.095	118.28
11	11 1,2,3,4,7,8-HxCDF	1.79e6	1.55e6	1.211	NO	9.92	33.33	33.34	1.00	1.00	NO	270.40		0.202	270.40
12	12 1,2,3,6,7,8-HxCDF	5.07e5	1.61e6	1.227	NO	9.92	33.45	33.46	1.00	1.00	NO	75.605		0.213	75.605
13	13 2,3,4,6,7,8-HxCDF	1.65e5	1.51e6	1.207	NO	9.92	34.04	34.03	1.00	1.00	NO	24.433		0.222	24.433
14	14 1,2,3,7,8,9-HxCDF	5.54e4	1.34e6	1.135	NO	9.92	34.90	34.92	1.00	1.00	NO	9.7259		0.300	9.7259
15	15 1,2,3,4,6,7,8-HpCDF	8.17e5	1.18e6	1.005	NO	9.92	36.67	36.65	1.00	1.00	NO	163.58		0.476	163.58
16	16 1,2,3,4,7,8,9-HpCDF	2.19e5	8.56e5	1.005	NO	9.92	38.71	38.72	1.00	1.00	NO	52.643		0.543	52.643
17	17 OCDF	1.37e6	1.86e6	0.861	NO	9.92	41.35	41.36	1.00	1.00	NO	369.28		0.335	369.28
18	18 13C-2,3,7,8-TCDD	1.76e6	2.39e6	0.781	NO	9.92	25.69	25.72	1.03	1.03	NO	124.44	61.7	0.214	
19	19 13C-1,2,3,7,8-PeCDD	1.54e6	2.39e6	0.632	NO	9.92	30.43	30.80	1.22	1.23	NO	134.84	66.9	0.155	
20	20 13C-1,2,3,4,7,8-HxCDD	1.20e6	2.35e6	1.272	NO	9.92	34.18	34.19	1.01	1.01	NO	118.03	58.5	0.210	
21	21 13C-1,2,3,6,7,8-HxCDD	1.42e6	2.35e6	1.267	NO	9.92	34.28	34.28	1.02	1.02	NO	116.65	57.8	0.175	
22	22 13C-1,2,3,7,8,9-HxCDD	1.35e6	2.35e6	1.242	NO	9.92	34.59	34.55	1.03	1.02	NO	119.24	59.1	0.188	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.20e6	2.35e6	1.078	NO	9.92	38.16	38.06	1.13	1.13	NO	137.32	68.1	0.262	
24	24 13C-OCDD	2.06e6	2.35e6	0.892	NO	9.92	41.06	41.17	1.22	1.22	NO	249.72	61.9	0.212	
25	25 13C-2,3,7,8-TCDF	2.21e6	3.31e6	0.777	NO	9.92	24.87	24.78	0.99	0.99	NO	126.31	62.6	0.297	
26	26 13C-1,2,3,7,8-PeCDF	2.05e6	3.31e6	1.571	NO	9.92	29.46	29.51	1.18	1.18	NO	124.44	61.7	0.283	
27	27 13C-2,3,4,7,8-PeCDF	1.97e6	3.31e6	1.565	NO	9.92	30.42	30.50	1.21	1.22	NO	124.77	61.9	0.294	
28	28 13C-1,2,3,4,7,8-HxCDF	1.55e6	2.35e6	0.511	NO	9.92	33.31	33.33	0.99	0.99	NO	126.68	62.8	0.245	
29	29 13C-1,2,3,6,7,8-HxCDF	1.61e6	2.35e6	0.519	NO	9.92	33.41	33.44	0.99	0.99	NO	115.97	57.5	0.216	
30	30 13C-2,3,4,6,7,8-HxCDF	1.51e6	2.35e6	0.508	NO	9.92	34.02	34.01	1.01	1.01	NO	121.96	60.5	0.241	
31	31 13C-1,2,3,7,8,9-HxCDF	1.34e6	2.35e6	0.515	NO	9.92	34.92	34.90	1.04	1.04	NO	124.57	61.8	0.279	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.18e6	2.35e6	0.440	NO	9.92	36.68	36.63	1.09	1.09	NO	132.48	65.7	0.253	

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-14.qld

Last Altered: Wednesday, March 18, 2020 08:59:07 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 09:07:46 Pacific Daylight Time

Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.56e5	2.35e6	0.442	NO	9.92	38.70	38.71	1.15	1.15	NO	133.05	66.0	0.352	
34	34 13C-OCDF	1.86e6	2.35e6	0.880	NO	9.92	41.29	41.35	1.23	1.23	NO	202.15	50.1	0.162	
35	35 37Cl-2,3,7,8-TCDD	6.66e5	2.39e6			9.92	25.72	25.74	1.03	1.03	NO	47.852	59.3	0.045	
36	36 13C-1,2,3,4-TCDD	2.39e6	2.39e6	0.790	NO	9.92	25.11	25.05	1.00	1.00	NO	201.68	100.0	0.257	
37	37 13C-1,2,3,4-TCDF	3.31e6	3.31e6	0.787	NO	9.92	23.37	23.28	1.00	1.00	NO	201.68	100.0	0.316	
38	38 13C-1,2,3,4,6,9-HxCDF	2.35e6	2.35e6	0.515	NO	9.92	33.71	33.71	1.00	1.00	NO	201.68	100.0	0.257	
39	39 Total Tetra-Dioxins		1.76e6			9.92	24.62		0.00		NO	23.552		0.069	23.882
40	40 Total Penta-Dioxins		1.54e6			9.92	29.96		0.00		NO	51.744		0.105	51.811
41	41 Total Hexa-Dioxins		0.00e0			9.92	33.63		0.00		NO	1051.7		0.420	1051.7
42	42 Total Hepta-Dioxins		1.20e6			9.92	37.64		0.00		NO	6044.0		1.737	6044.0
43	43 Total Tetra-Furans		2.21e6			9.92	23.61		0.00		NO	423.08		0.148	438.66
44	44 1st Func. Penta-Furans		0.00e0			9.92	27.09		0.00		NO	72.521		0.040	72.521
45	45 Total Penta-Furans		0.00e0			9.92	29.27		0.00		NO	549.00		0.101	549.00
46	46 Total Hexa-Furans		0.00e0			9.92	33.56		0.00		NO	616.63		0.223	616.63
47	47 Total Hepta-Furans		0.00e0			9.92	37.83		0.00		NO	619.56		0.539	619.56

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-14.qld

Last Altered: Wednesday, March 18, 2020 08:59:07 Pacific Daylight Time
Printed: Wednesday, March 18, 2020 09:07:46 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35

Tetra-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	25.59	0.861	NO	5.71e2	7.73e5	0.143	0.143
2	39 Total Tetra-Dioxins	25.47	0.761	NO	5.78e3	7.73e5	1.55	1.55
3	39 Total Tetra-Dioxins	25.18	0.737	NO	4.70e2	7.73e5	0.128	0.128
4	39 Total Tetra-Dioxins	25.02	0.788	NO	1.50e3	7.73e5	0.394	0.394
5	39 Total Tetra-Dioxins	24.66	0.868	NO	1.79e3	7.73e5	0.446	0.446
6	39 Total Tetra-Dioxins	24.45	0.915	YES	1.00e3	7.73e5	0.000	0.225
7	39 Total Tetra-Dioxins	24.18	0.841	NO	1.37e3	7.73e5	0.347	0.347
8	39 Total Tetra-Dioxins	23.97	0.820	NO	4.47e3	7.73e5	1.15	1.15
9	39 Total Tetra-Dioxins	23.75	0.793	NO	4.16e3	7.73e5	1.09	1.09
10	39 Total Tetra-Dioxins	23.43	0.741	NO	1.36e3	7.73e5	0.369	0.369
11	39 Total Tetra-Dioxins	22.50	0.710	NO	1.90e3	7.73e5	0.530	0.530
12	39 Total Tetra-Dioxins	22.01	0.767	NO	1.03e4	7.73e5	2.75	2.75
13	39 Total Tetra-Dioxins	21.59	0.777	NO	4.78e4	7.73e5	12.7	12.7
14	39 Total Tetra-Dioxins	26.74	0.869	NO	8.08e2	7.73e5	0.201	0.201
15	39 Total Tetra-Dioxins	26.18	0.993	YES	5.11e2	7.73e5	0.000	0.105
16	39 Total Tetra-Dioxins	26.08	0.795	NO	1.86e3	7.73e5	0.486	0.486
17	1 2,3,7,8-TCDD	25.74	0.751	NO	4.88e3	7.73e5	1.32	1.32

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-14.qld

Last Altered: Wednesday, March 18, 2020 08:59:07 Pacific Daylight Time
 Printed: Wednesday, March 18, 2020 09:07:46 Pacific Daylight Time

Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35

Penta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	30.04	0.637	NO	1.36e4	5.97e5	4.70	4.70
2	40 Total Penta-Dioxins	29.83	0.656	NO	1.40e4	5.97e5	4.75	4.75
3	40 Total Penta-Dioxins	29.74	0.626	NO	7.76e3	5.97e5	2.71	2.71
4	40 Total Penta-Dioxins	29.57	0.634	NO	3.22e4	5.97e5	11.2	11.2
5	40 Total Penta-Dioxins	29.07	0.628	NO	8.72e3	5.97e5	3.04	3.04
6	40 Total Penta-Dioxins	28.55	0.612	NO	5.76e4	5.97e5	20.4	20.4
7	40 Total Penta-Dioxins	31.22	0.551	NO	2.46e3	5.97e5	0.933	0.933
8	40 Total Penta-Dioxins	31.13	1.167	YES	3.57e2	5.97e5	0.000	0.0671
9	40 Total Penta-Dioxins	30.91	0.670	NO	3.85e3	5.97e5	1.29	1.29
10	2 1,2,3,7,8-PeCDD	30.82	0.656	NO	5.74e3	5.97e5	1.95	1.95
11	40 Total Penta-Dioxins	30.39	0.658	NO	2.35e3	5.97e5	0.796	0.796

Hexa-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	34.57	1.269	NO	9.30e4	7.50e5	27.0	27.0
2	41 Total Hexa-Dioxins	34.48	1.256	NO	5.81e4	7.39e5	17.2	17.2
3	4 1,2,3,6,7,8-HxCDD	34.30	1.253	NO	2.01e5	7.94e5	55.7	55.7
4	3 1,2,3,4,7,8-HxCDD	34.20	1.254	NO	3.93e4	6.73e5	11.1	11.1
5	41 Total Hexa-Dioxins	33.52	1.235	NO	1.34e6	7.39e5	399	399
6	41 Total Hexa-Dioxins	33.28	1.228	NO	1.58e5	7.39e5	47.3	47.3
7	41 Total Hexa-Dioxins	32.73	1.234	NO	1.65e6	7.39e5	494	494

Hepta-Dioxins

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.08	1.030	NO	7.89e6	6.20e5	2840	2840
2	42 Total Hepta-Dioxins	37.03	1.021	NO	8.85e6	6.20e5	3200	3200

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-14.qld

Last Altered: Wednesday, March 18, 2020 08:59:07 Pacific Daylight Time
 Printed: Wednesday, March 18, 2020 09:07:46 Pacific Daylight Time

Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35

Tetra-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	20.06	0.763	NO	1.06e4	9.66e5	2.78	2.78
2	43 Total Tetra-Furans	19.55	0.815	NO	4.04e3	9.66e5	1.02	1.02
3	8 2,3,7,8-TCDF	24.81	0.757	NO	5.17e5	9.66e5	137	137
4	43 Total Tetra-Furans	24.70	0.743	NO	4.82e4	9.66e5	12.9	12.9
5	43 Total Tetra-Furans	24.58	0.707	NO	5.80e3	9.66e5	1.59	1.59
6	43 Total Tetra-Furans	24.36	0.614	YES	3.20e3	9.66e5	0.000	0.837
7	43 Total Tetra-Furans	24.13	0.757	NO	2.02e4	9.66e5	5.34	5.34
8	43 Total Tetra-Furans	23.83	0.761	NO	4.58e5	9.66e5	121	121
9	43 Total Tetra-Furans	23.28	0.766	NO	6.14e4	9.66e5	16.1	16.1
10	43 Total Tetra-Furans	23.18	0.744	NO	3.90e4	9.66e5	10.4	10.4
11	43 Total Tetra-Furans	23.00	0.803	NO	3.77e3	9.66e5	0.964	0.964
12	43 Total Tetra-Furans	22.86	0.740	NO	4.15e3	9.66e5	1.11	1.11
13	43 Total Tetra-Furans	22.40	0.775	NO	1.85e4	9.66e5	4.83	4.83
14	43 Total Tetra-Furans	22.17	0.784	NO	3.78e3	9.66e5	0.978	0.978
15	43 Total Tetra-Furans	22.04	0.760	NO	5.67e4	9.66e5	14.9	14.9
16	43 Total Tetra-Furans	21.56	0.757	NO	1.32e5	9.66e5	34.9	34.9
17	43 Total Tetra-Furans	21.19	0.762	NO	2.86e4	9.66e5	7.51	7.51
18	43 Total Tetra-Furans	20.65	0.756	NO	1.63e5	9.66e5	43.0	43.0
19	43 Total Tetra-Furans	26.87	1.007	YES	7.30e4	9.66e5	0.000	14.6
20	43 Total Tetra-Furans	25.45	0.799	NO	3.94e3	9.66e5	1.01	1.01
21	43 Total Tetra-Furans	25.18	0.757	NO	2.45e4	9.66e5	6.47	6.47
22	43 Total Tetra-Furans	26.29	1.773	YES	1.38e3	9.66e5	0.000	0.157

Penta-Furans function 1

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.89	1.556	NO	3.99e5	1.23e6	72.5	72.5

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-14.qld

Last Altered: Wednesday, March 18, 2020 08:59:07 Pacific Daylight Time
 Printed: Wednesday, March 18, 2020 09:07:46 Pacific Daylight Time

Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35

Penta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	31.44	1.498	NO	3.54e4	1.23e6	6.53	6.53
2	45 Total Penta-Furans	30.41	1.523	NO	9.23e3	1.23e6	1.69	1.69
3	45 Total Penta-Furans	30.29	1.357	NO	2.40e3	1.23e6	0.462	0.462
4	45 Total Penta-Furans	29.80	1.547	NO	3.94e5	1.23e6	71.7	71.7
5	9 1,2,3,7,8-PeCDF	29.52	1.537	NO	1.09e6	1.25e6	195	195
6	45 Total Penta-Furans	29.32	1.556	NO	1.28e5	1.23e6	23.3	23.3
7	45 Total Penta-Furans	29.11	1.550	NO	8.41e4	1.23e6	15.3	15.3
8	45 Total Penta-Furans	28.91	1.418	NO	2.37e3	1.23e6	0.447	0.447
9	45 Total Penta-Furans	28.52	1.530	NO	6.14e5	1.23e6	112	112
10	45 Total Penta-Furans	28.36	1.456	NO	2.25e4	1.23e6	4.20	4.20
11	10 2,3,4,7,8-PeCDF	30.51	1.539	NO	6.67e5	1.20e6	118	118

Hexa-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	12 1,2,3,6,7,8-HxCDF	33.46	1.227	NO	2.79e5	5.50e5	75.6	75.6
2	11 1,2,3,4,7,8-HxCDF	33.34	1.211	NO	9.81e5	5.24e5	270	270
3	46 Total Hexa-Furans	33.24	1.285	NO	1.25e4	5.10e5	3.33	3.33
4	46 Total Hexa-Furans	32.89	1.215	NO	3.87e5	5.10e5	105	105
5	46 Total Hexa-Furans	32.70	1.180	NO	8.34e3	5.10e5	2.30	2.30
6	46 Total Hexa-Furans	32.35	1.214	NO	2.58e5	5.10e5	70.4	70.4
7	46 Total Hexa-Furans	32.18	1.235	NO	7.38e4	5.10e5	20.0	20.0
8	14 1,2,3,7,8,9-HxCDF	34.92	1.135	NO	2.94e4	4.55e5	9.73	9.73
9	13 2,3,4,6,7,8-HxCDF	34.03	1.207	NO	9.02e4	5.11e5	24.4	24.4
10	46 Total Hexa-Furans	33.84	1.398	NO	2.58e3	5.10e5	0.660	0.660
11	46 Total Hexa-Furans	33.73	1.322	NO	1.18e4	5.10e5	3.09	3.09
12	46 Total Hexa-Furans	34.96	1.228	NO	1.15e5	5.10e5	31.3	31.3

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-14.qld

Last Altered: Wednesday, March 18, 2020 08:59:07 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 09:07:46 Pacific Daylight Time

Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35

Hepta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	47 Total Hepta-Furans	37.24	1.010	NO	8.57e5	3.12e5	397	397
2	47 Total Hepta-Furans	37.04	0.994	NO	1.47e4	3.12e5	6.83	6.83
3	15 1,2,3,4,6,7,8-HpCDF	36.65	1.005	NO	4.10e5	3.62e5	164	164
4	16 1,2,3,4,7,8,9-HpCDF	38.72	1.005	NO	1.10e5	2.62e5	52.6	52.6

Dataset: Untitled

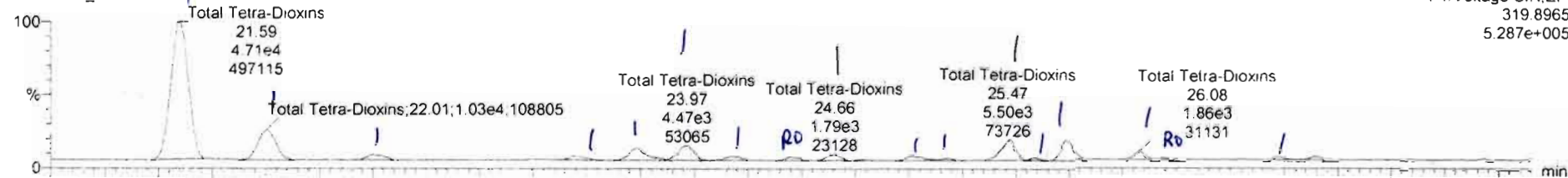
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

chy 03-03-2020

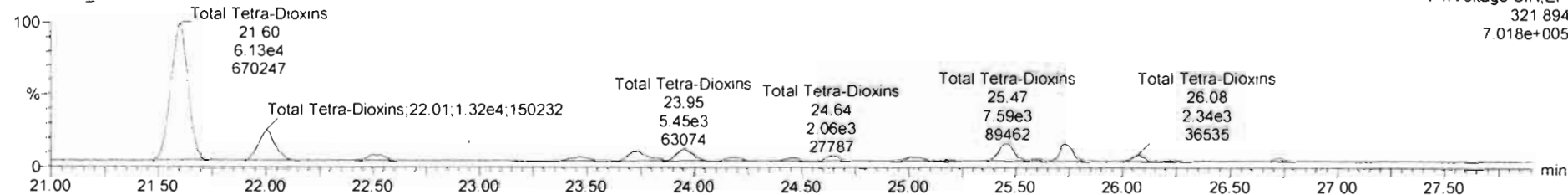
Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

2,3,7,8-TCDD

200223R3_14

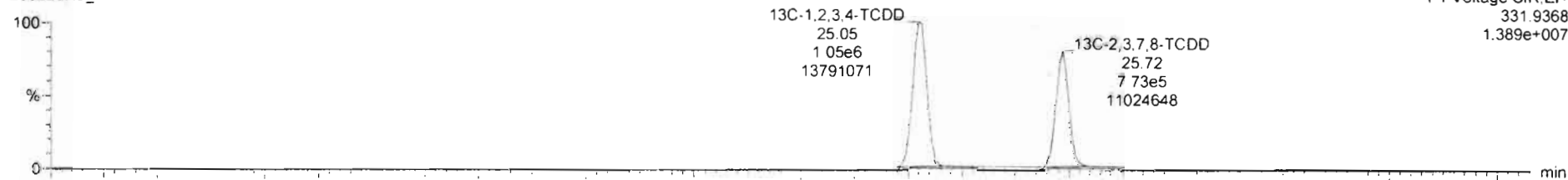


200223R3_14

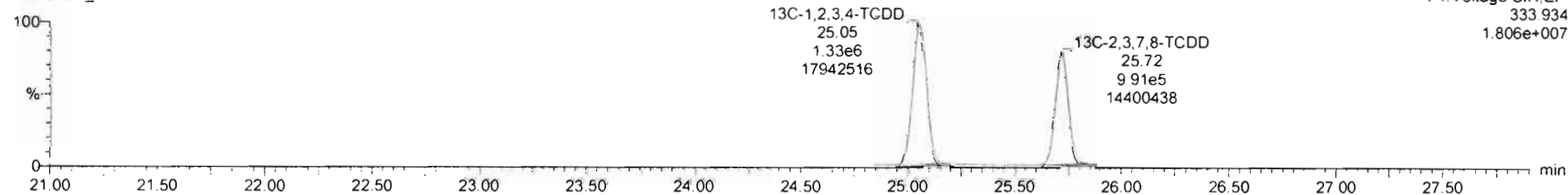


13C-2,3,7,8-TCDD

200223R3_14

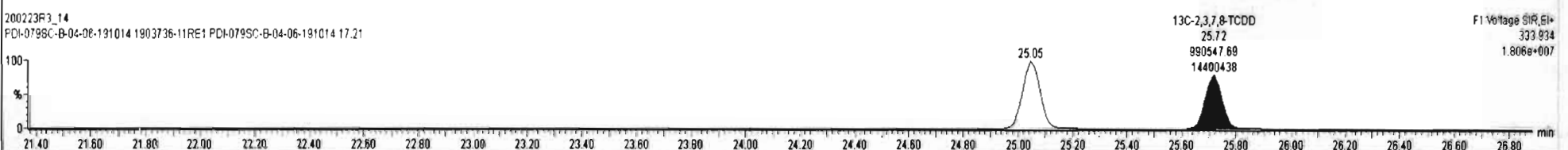
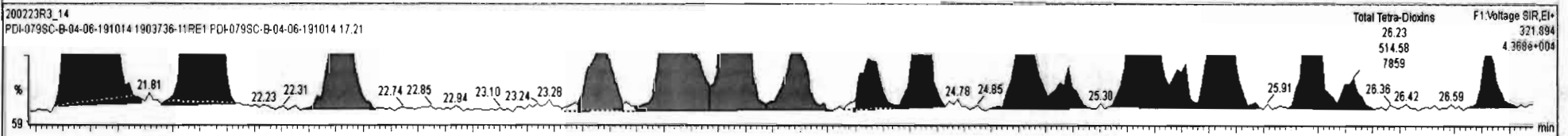
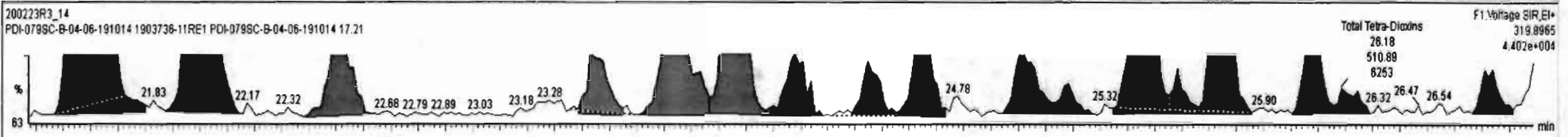


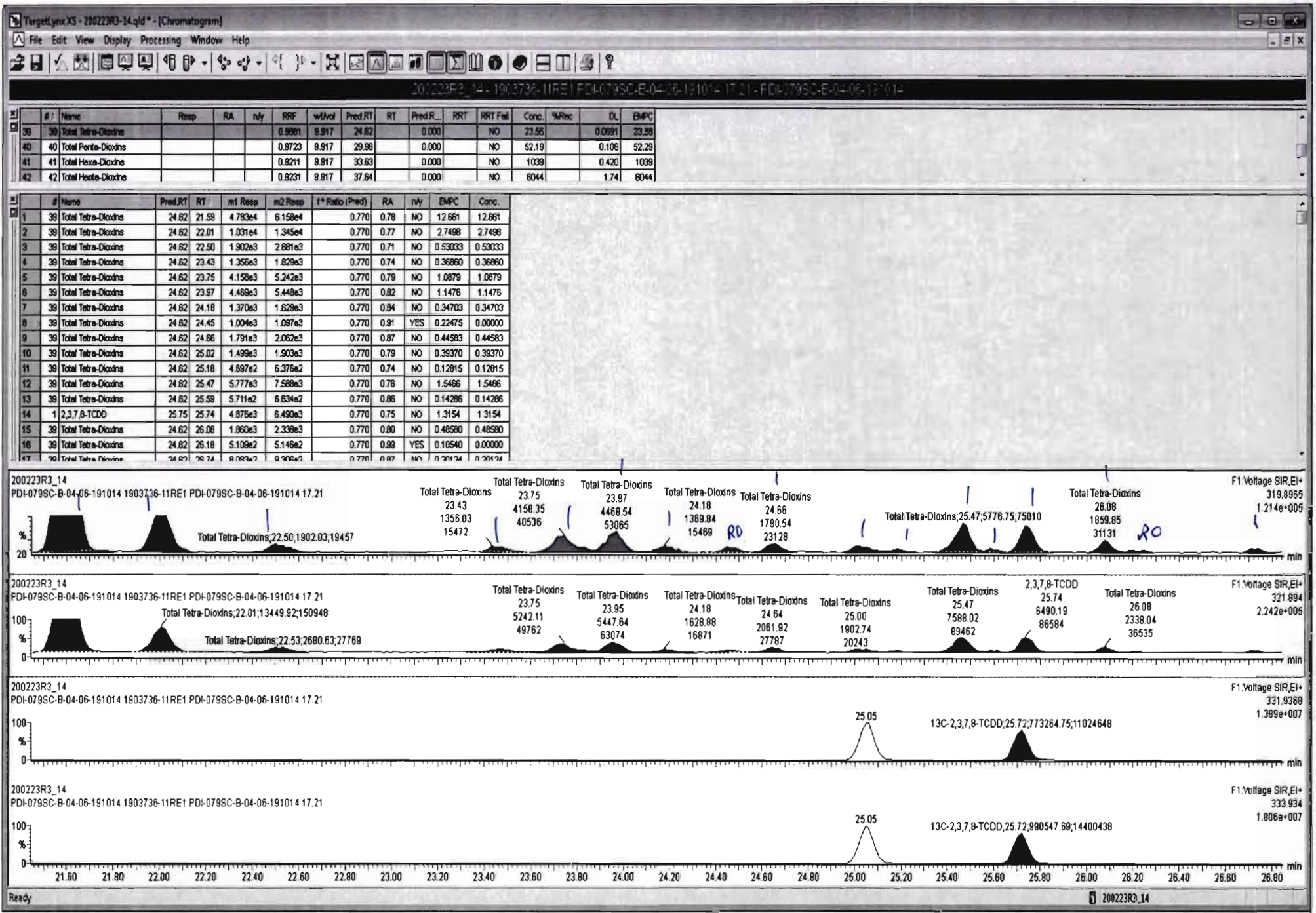
200223R3_14



#	Name	Resp	RA	n/y	RF	wtVol	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.0001	0.917	24.62		0.000		NO	23.55		0.0091	23.98

#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	24.62	21.59	4.783e4	6.158e4	0.770	0.78	NO	12.661	12.661
2	Total Tetra-Dioxins	24.62	22.01	1.031e4	1.345e4	0.770	0.77	NO	2.7500	2.7496
3	Total Tetra-Dioxins	24.62	22.50	1.902e3	2.681e3	0.770	0.71	NO	0.53000	0.53033
4	Total Tetra-Dioxins	24.62	23.43	1.356e3	1.829e3	0.770	0.74	NO	0.36900	0.36860
5	Total Tetra-Dioxins	24.62	23.75	4.158e3	5.242e3	0.770	0.79	NO	1.0880	1.0679
6	Total Tetra-Dioxins	24.62	23.97	4.469e3	5.448e3	0.770	0.82	NO	1.1480	1.1476
7	Total Tetra-Dioxins	24.62	24.18	1.370e3	1.629e3	0.770	0.84	NO	0.34700	0.34703
8	Total Tetra-Dioxins	24.62	24.45	1.904e3	1.097e3	0.770	0.91	YES	0.22500	0.00000
9	Total Tetra-Dioxins	24.62	24.66	1.791e3	2.062e3	0.770	0.87	NO	0.44600	0.44583
10	Total Tetra-Dioxins	24.62	25.02	1.499e3	1.903e3	0.770	0.79	NO	0.39400	0.39370
11	Total Tetra-Dioxins	24.62	25.18	4.697e2	6.376e2	0.770	0.74	NO	0.12800	0.12815
12	Total Tetra-Dioxins	24.62	25.47	5.777e3	7.588e3	0.770	0.76	NO	1.5470	1.5466
13	Total Tetra-Dioxins	24.62	25.59	5.711e2	6.634e2	0.770	0.86	NO	0.14300	0.14286
14	1,2,3,7-TCDD	25.75	25.74	4.878e3	6.490e3	0.770	0.75	NO	1.3150	1.3154
15	Total Tetra-Dioxins	24.62	26.08	1.860e3	2.338e3	0.770	0.80	NO	0.48600	0.48580
16	Total Tetra-Dioxins	24.62	26.18	5.109e2	5.146e2	0.770	0.99	YES	0.10500	0.00000





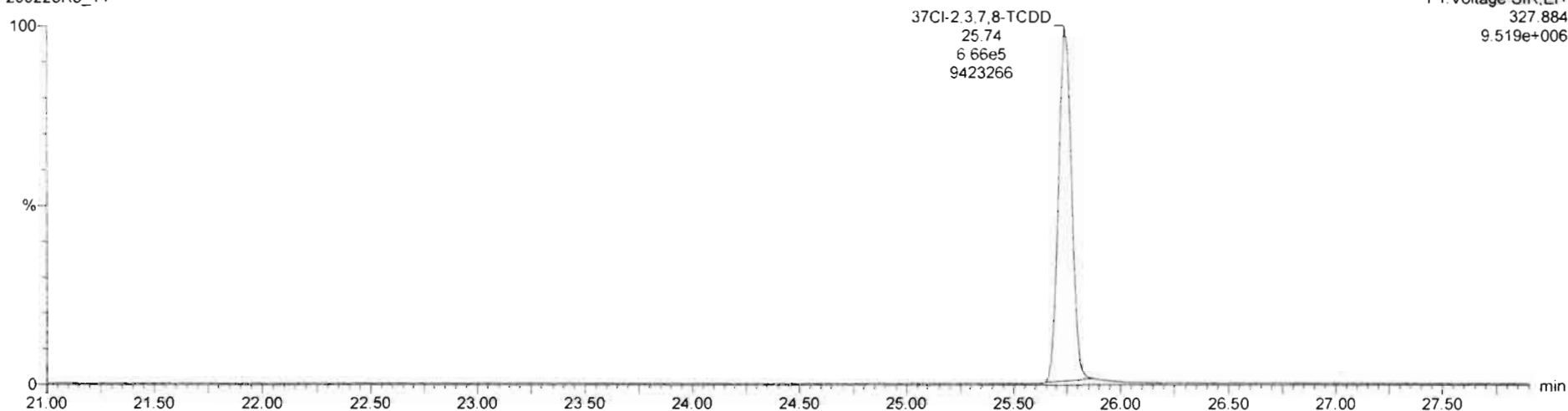
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

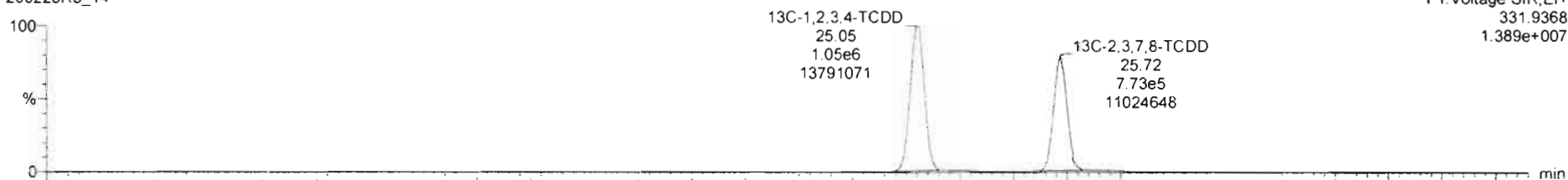
37Cl-2,3,7,8-TCDD

200223R3_14

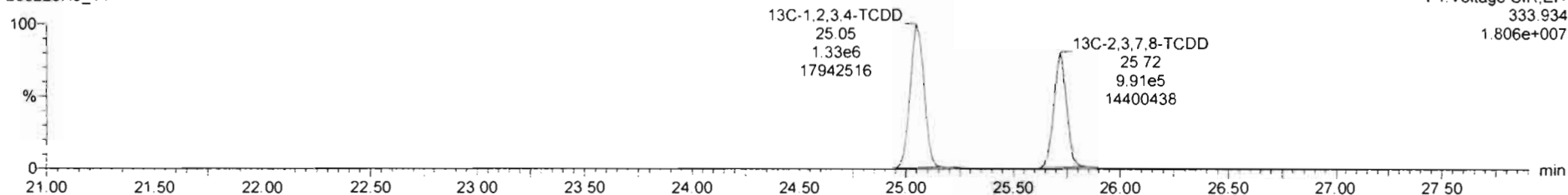


13C-1,2,3,4-TCDD

200223R3_14



200223R3_14



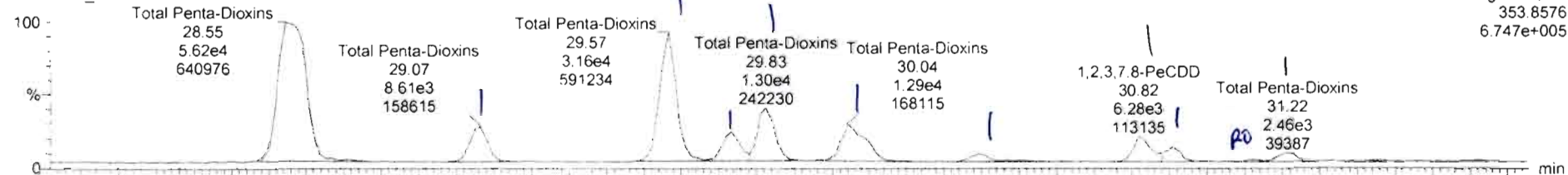
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

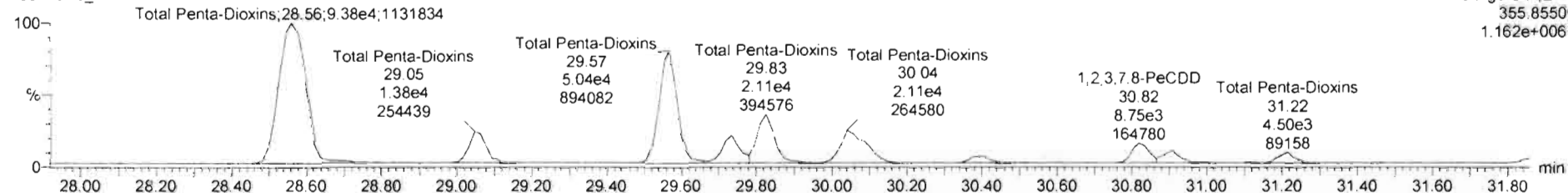
Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

1,2,3,7,8-PeCDD

200223R3_14

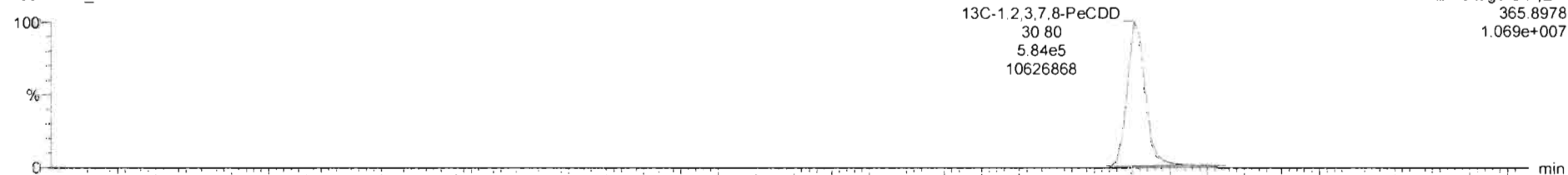


200223R3_14

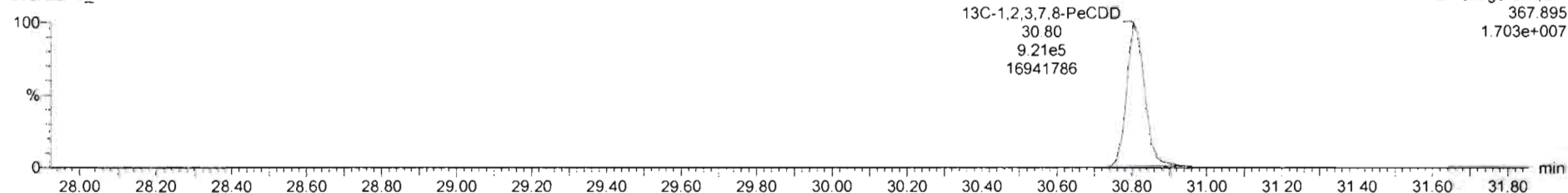


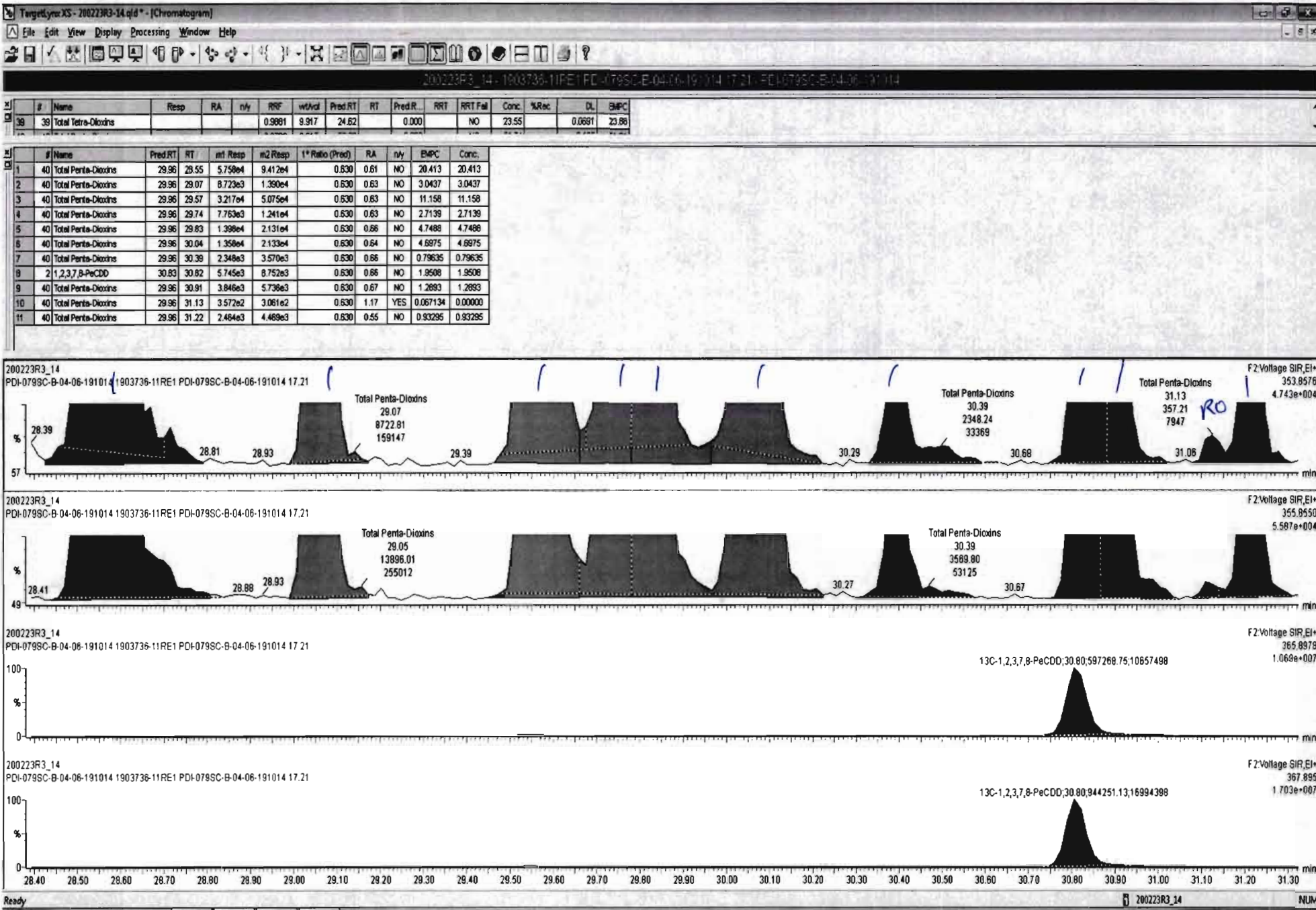
13C-1,2,3,7,8-PeCDD

200223R3_14



200223R3_14





Dataset: Untitled

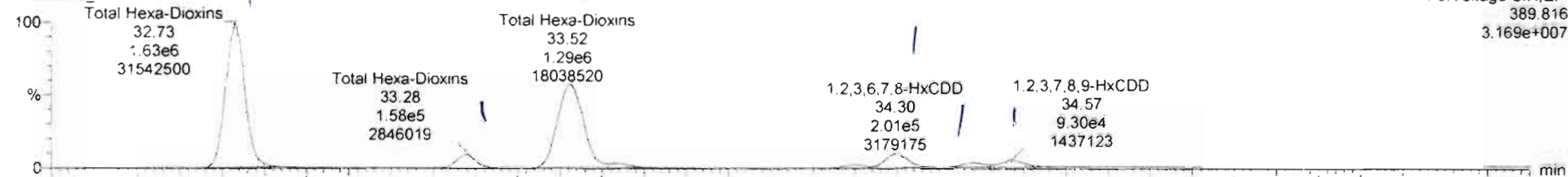
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

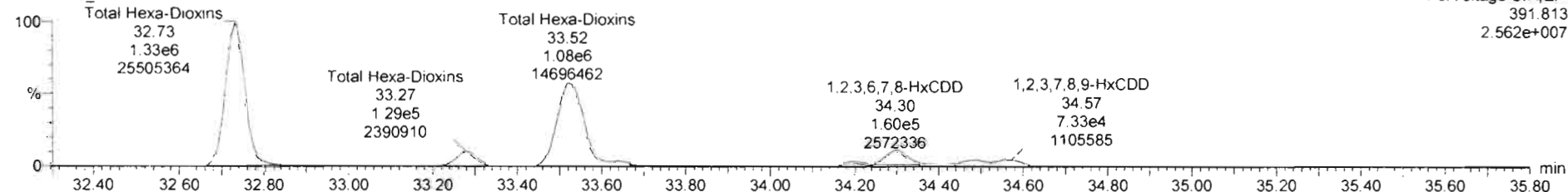
Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

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

200223R3_14

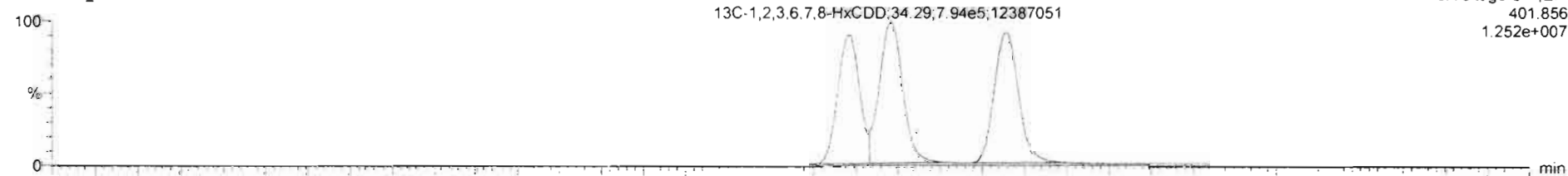


200223R3_14

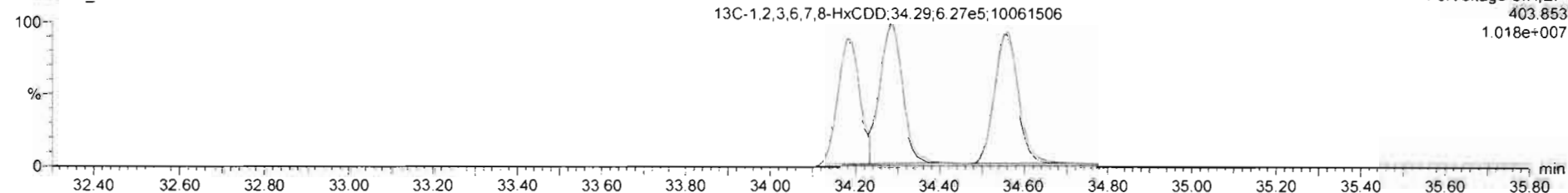


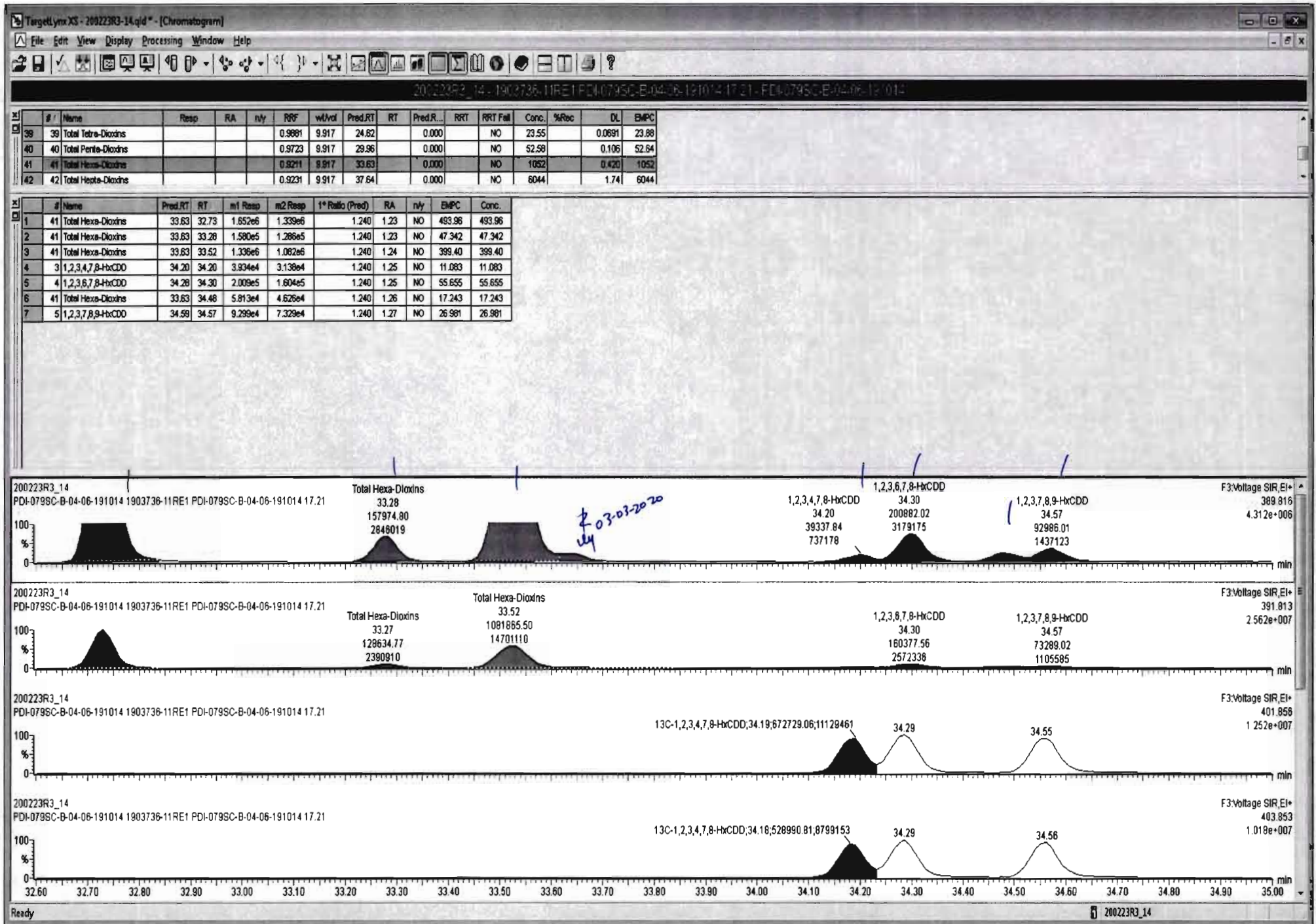
13C-1,2,3,4,7,8-HxCDD

200223R3_14



200223R3_14





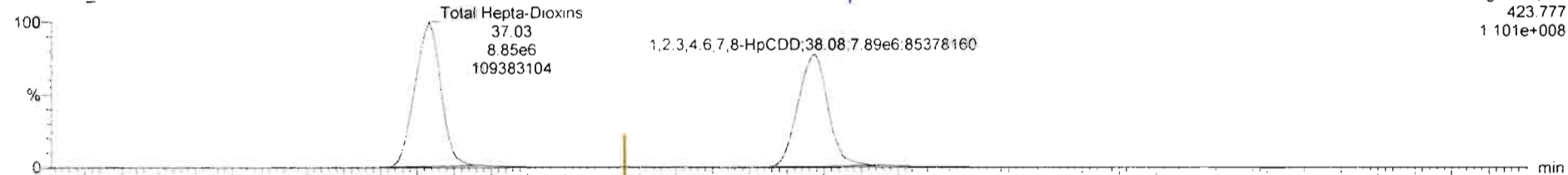
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

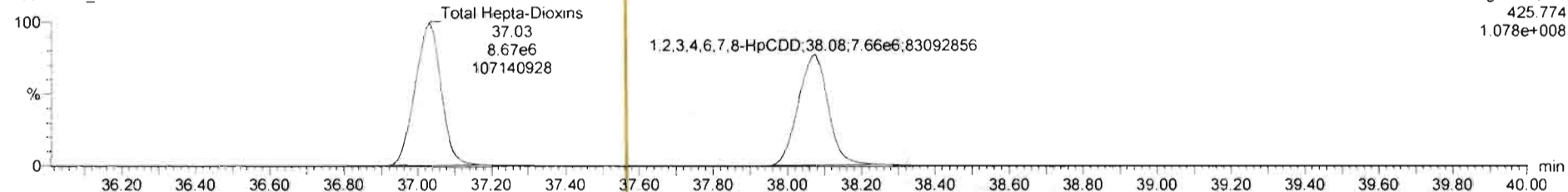
Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

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

200223R3_14

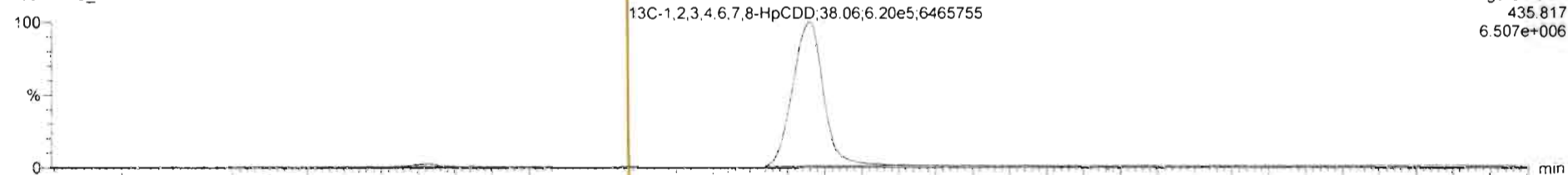


200223R3_14

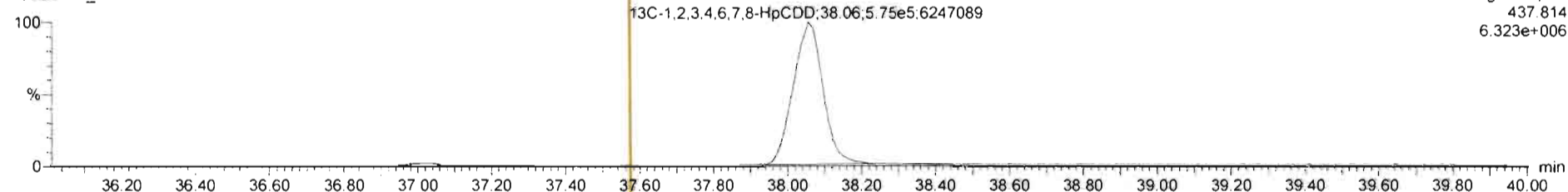


13C-1,2,3,4,6,7,8-HpCDD

200223R3_14



200223R3_14

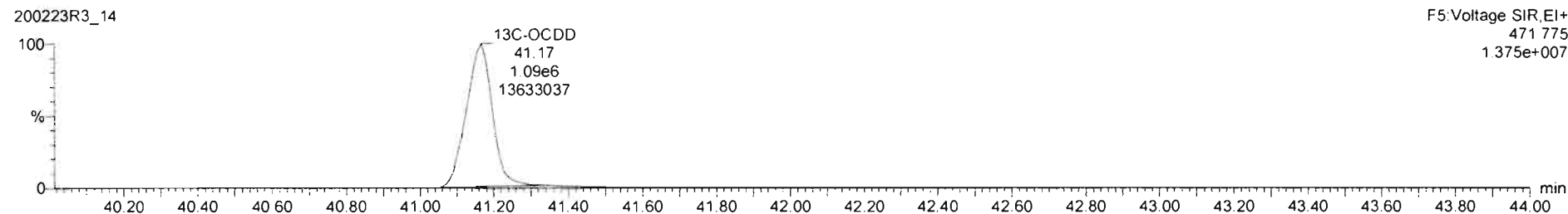
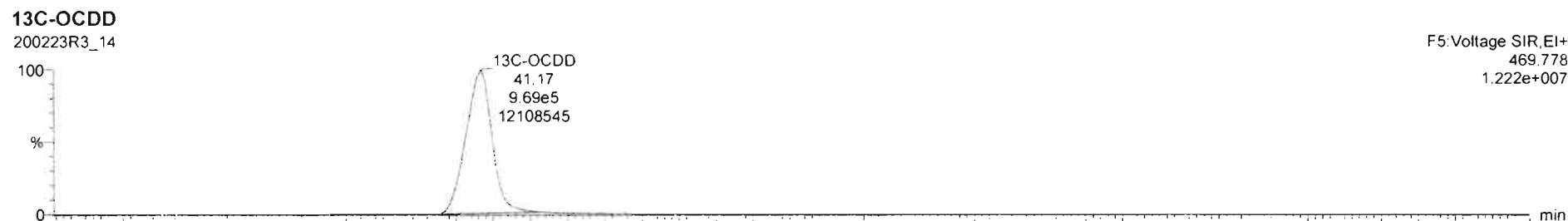
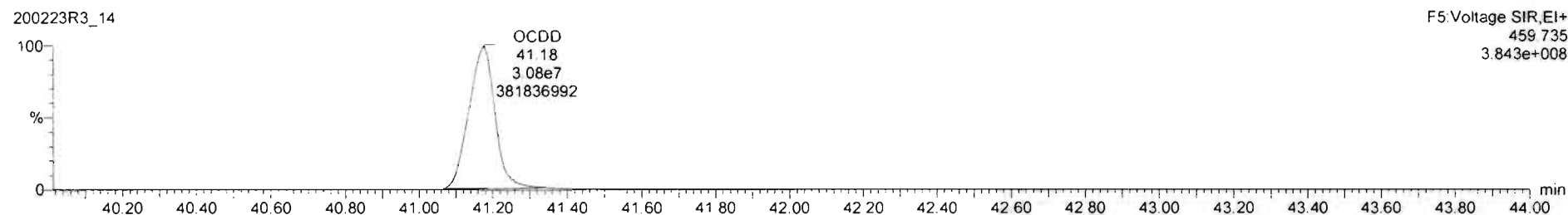
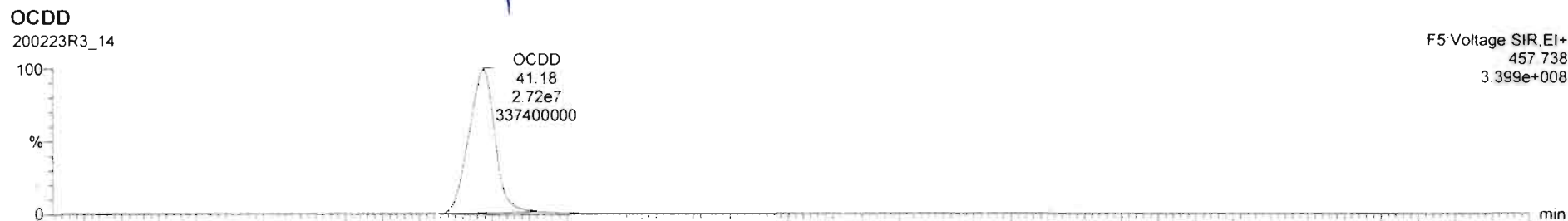


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

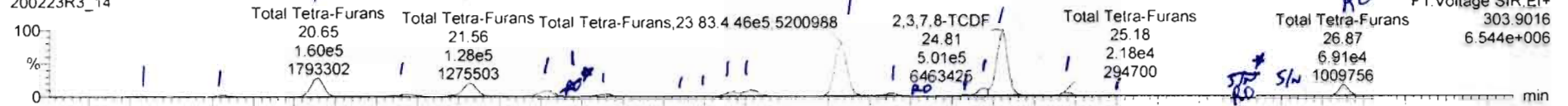
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

by 03-18-2020

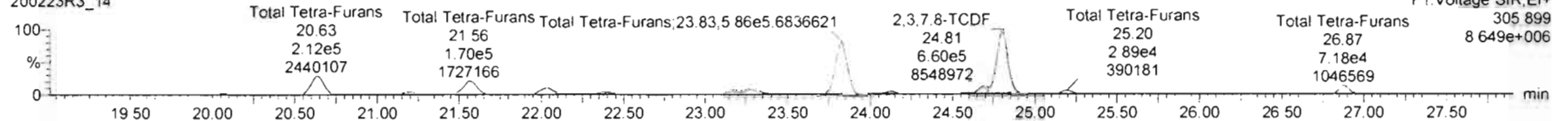
Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

2,3,7,8-TCDF

200223R3_14

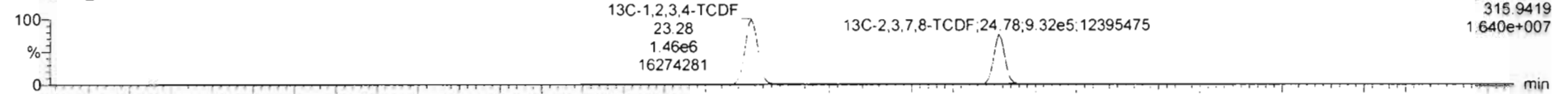


200223R3_14

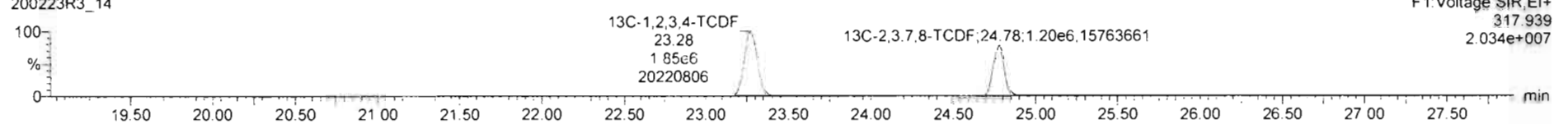


13C-2,3,7,8-TCDF

200223R3_14

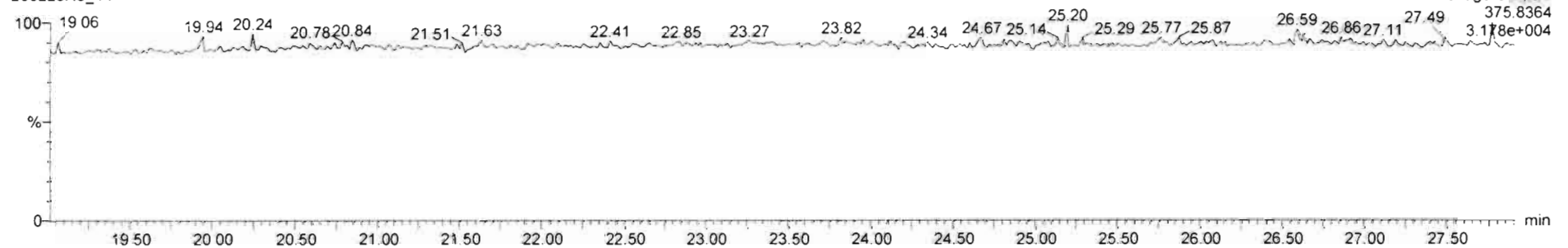


200223R3_14



DPE1

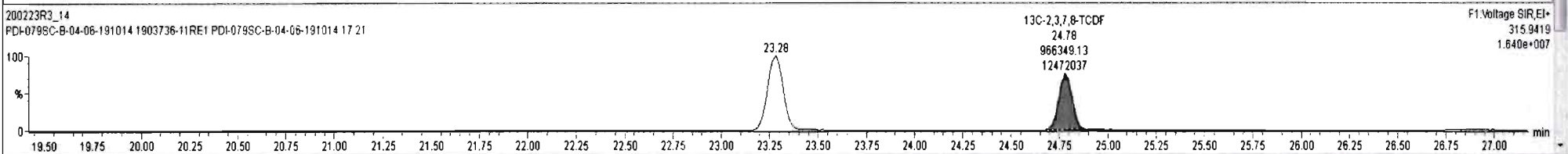
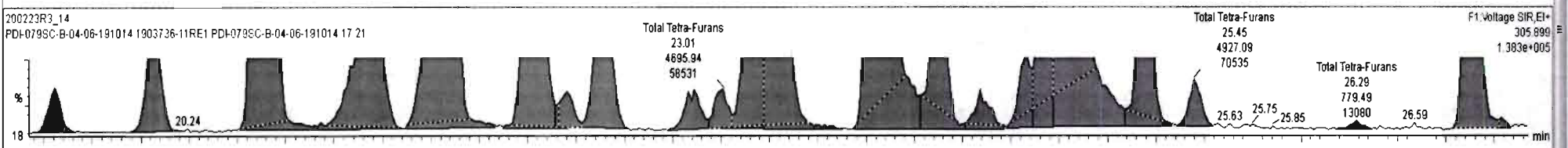
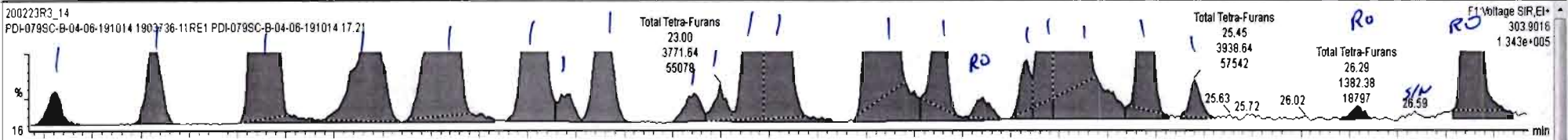
200223R3_14



200223R3_14-1903736-11RE1-PDI-079SC-B-04-06-191014 17.21-PDI-079SC-B-04-06-191014

Name	Resp	RA	n/y	RF	wt/rd	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.80	9.917			423		0.148	439
44 1st Furc. Dests.Furans				0.91	9.917			72.5		n.mea	72.5

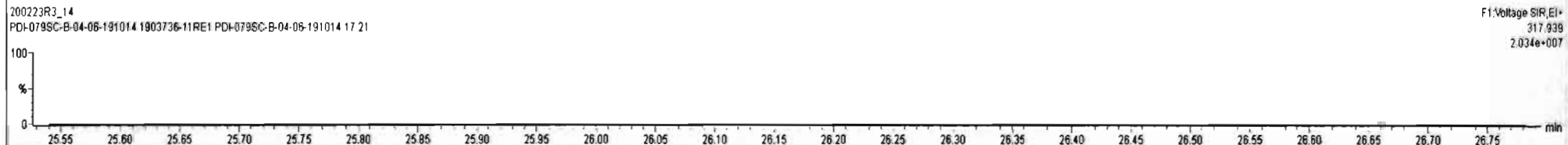
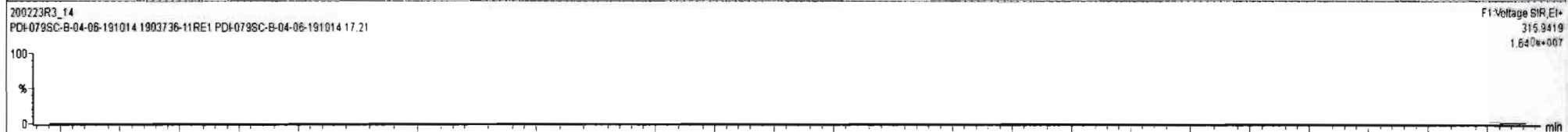
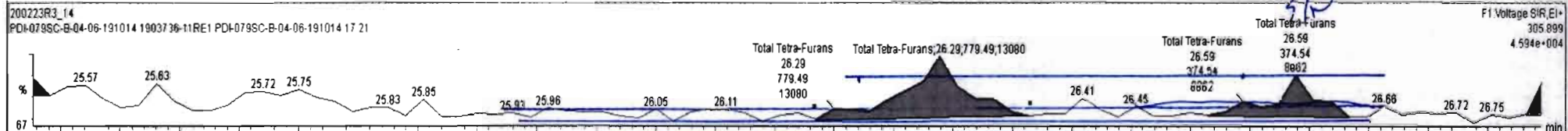
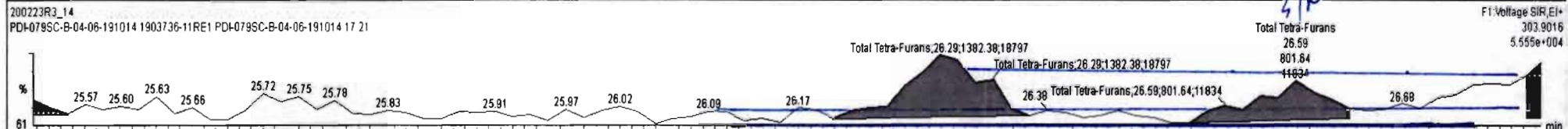
Name	RT	m1 Resp	m2 Resp	1 st Ratio (P)	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.55	4.042e3	4.957e3	0.770	0.82	NO	1.0241	1.0241
2 Total Tetra-Furans	20.06	1.056e4	1.383e4	0.770	0.76	NO	2.7762	2.7762
3 Total Tetra-Furans	20.65	1.626e5	2.152e5	0.770	0.76	NO	43.000	43.000
4 Total Tetra-Furans	21.19	2.858e4	3.747e4	0.770	0.76	NO	7.5150	7.5150
5 Total Tetra-Furans	21.56	1.322e5	1.745e5	0.770	0.76	NO	34.908	34.908
6 Total Tetra-Furans	22.04	5.667e4	7.457e4	0.770	0.76	NO	14.937	14.937
7 Total Tetra-Furans	22.17	3.777e3	4.819e3	0.770	0.78	NO	0.97824	0.97824
8 Total Tetra-Furans	22.40	1.854e4	2.390e4	0.770	0.78	NO	4.8299	4.8299
9 Total Tetra-Furans	22.86	4.150e3	5.608e3	0.770	0.74	NO	1.1105	1.1105
10 Total Tetra-Furans	23.00	3.772e3	4.696e3	0.770	0.80	NO	0.96367	0.96367
11 Total Tetra-Furans	23.18	3.899e4	5.241e4	0.770	0.74	NO	10.402	10.402
12 Total Tetra-Furans	23.28	8.140e4	8.015e4	0.770	0.77	NO	16.109	16.109
13 Total Tetra-Furans	23.83	4.583e5	6.025e5	0.770	0.76	NO	120.73	120.73
14 Total Tetra-Furans	24.13	2.024e4	2.672e4	0.770	0.76	NO	5.3438	5.3438
15 Total Tetra-Furans	24.36	3.199e3	5.207e3	0.770	0.81	YES	0.83688	0.00000
16 Total Tetra-Furans	24.58	5.802e3	8.201e3	0.770	0.71	NO	1.5936	1.5936
17 Total Tetra-Furans	24.70	4.821e4	6.488e4	0.770	0.74	NO	12.870	12.870
18 2,3,7,8-TCDF	24.81	5.169e5	6.826e5	0.770	0.76	NO	136.51	136.51
19 Total Tetra-Furans	25.18	2.451e4	3.235e4	0.770	0.76	NO	6.4714	6.4714
20 Total Tetra-Furans	25.45	3.839e3	4.927e3	0.770	0.80	NO	1.0090	1.0090
21 Total Tetra-Furans	26.29	1.382e3	7.795e2	0.770	1.77	YES	0.15702	0.00000
22 Total Tetra-Furans	26.87	7.296e4	7.242e4	0.770	1.01	YES	14.589	0.00000



200223R3_14 - 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21 - PDI-079SC-B-04-06-191014

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.80	9.917			423	0.148	438	
44 1st Func. Penta-Furans				0.91	9.917			72.5	0.0398	72.5	
45 Total Penta-Furans				0.91	9.917			549	0.101	549	

Name	RT	m1 Resp	m2 Resp	1 st Ratio (P.)	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.55	4.042e3	4.957e3	0.770	0.82	NO	1.0240	1.0241
2 Total Tetra-Furans	20.06	1.056e4	1.383e4	0.770	0.76	NO	2.7760	2.7762
3 Total Tetra-Furans	20.65	1.626e5	2.152e5	0.770	0.76	NO	43.000	43.000
4 Total Tetra-Furans	21.19	2.858e4	3.747e4	0.770	0.76	NO	7.5150	7.5150
5 Total Tetra-Furans	21.56	1.322e5	1.745e5	0.770	0.76	NO	34.908	34.908
6 Total Tetra-Furans	22.04	5.667e4	7.457e4	0.770	0.76	NO	14.937	14.937
7 Total Tetra-Furans	22.17	3.777e3	4.819e3	0.770	0.78	NO	0.97800	0.97824
8 Total Tetra-Furans	22.40	1.854e4	2.390e4	0.770	0.76	NO	4.8300	4.8298
9 Total Tetra-Furans	22.86	4.150e3	5.608e3	0.770	0.74	NO	1.1100	1.1105
10 Total Tetra-Furans	23.00	3.772e3	4.696e3	0.770	0.80	NO	0.96400	0.96367
11 Total Tetra-Furans	23.18	3.899e4	5.241e4	0.770	0.74	NO	10.402	10.402
12 Total Tetra-Furans	23.28	8.140e4	8.015e4	0.770	0.77	NO	18.109	16.109
13 Total Tetra-Furans	23.83	4.583e5	8.025e5	0.770	0.76	NO	120.73	120.73



Dataset: Untitled

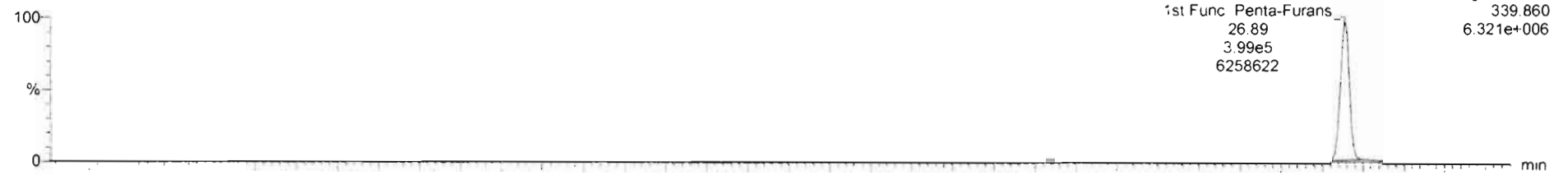
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

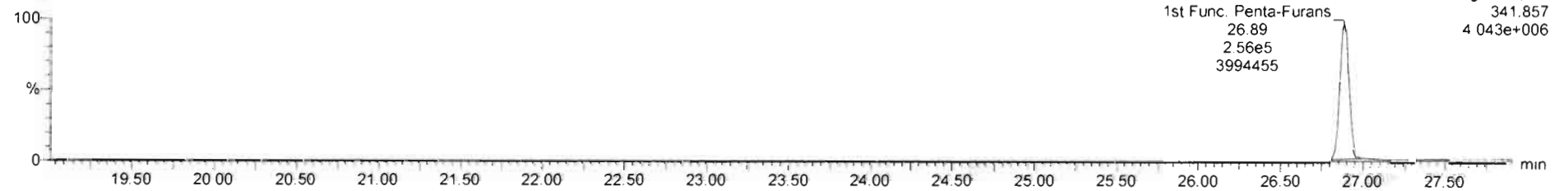
Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

1st Func. Penta-Furans

200223R3_14

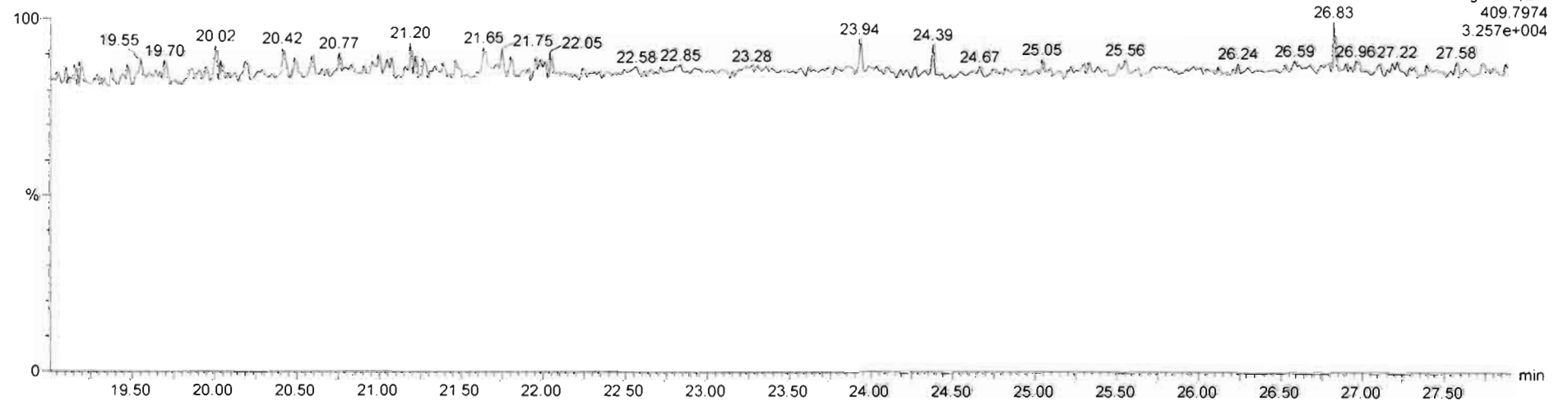


200223R3_14



DPE6

200223R3_14



Dataset: Untitled

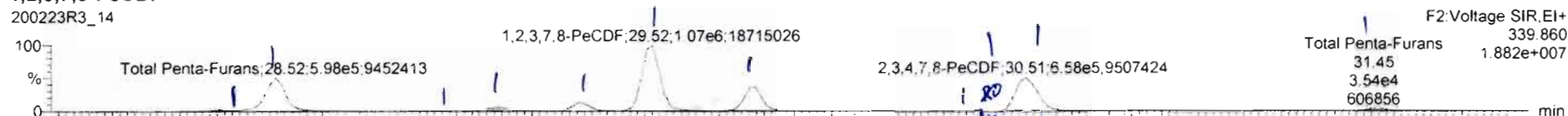
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

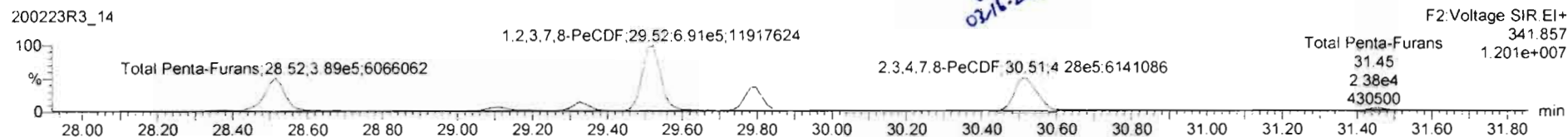
Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

1,2,3,7,8-PeCDF

200223R3_14

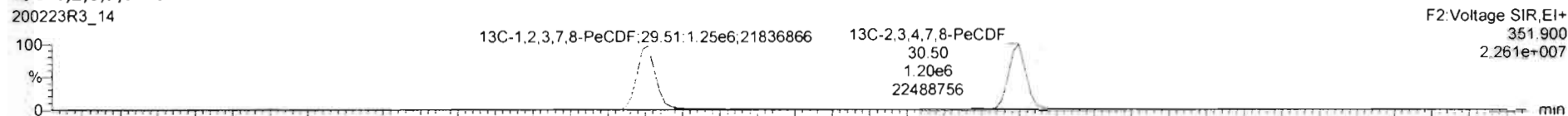


200223R3_14

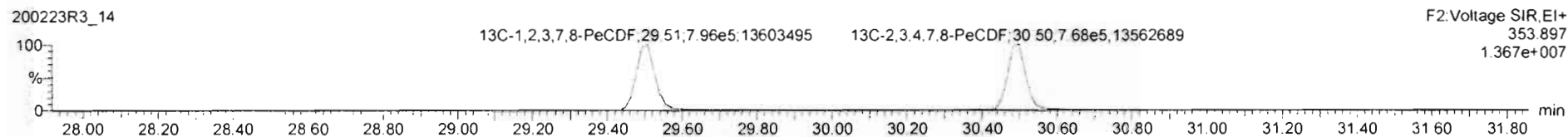


13C-1,2,3,7,8-PeCDF

200223R3_14

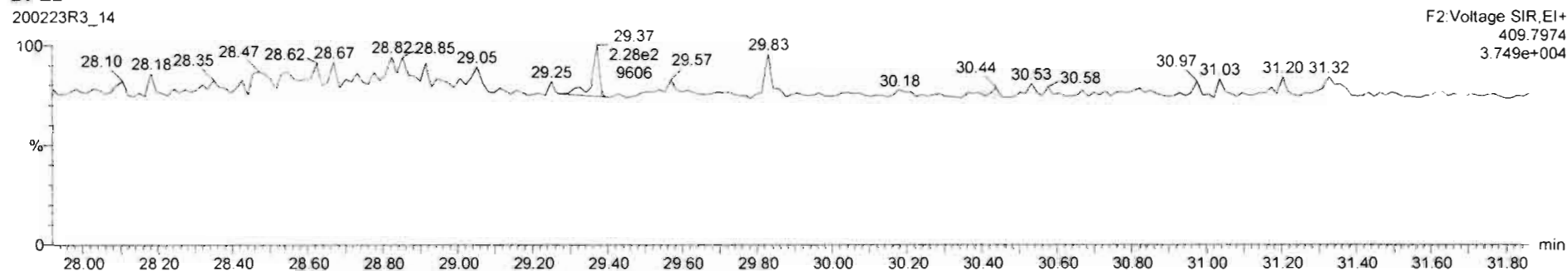


200223R3_14



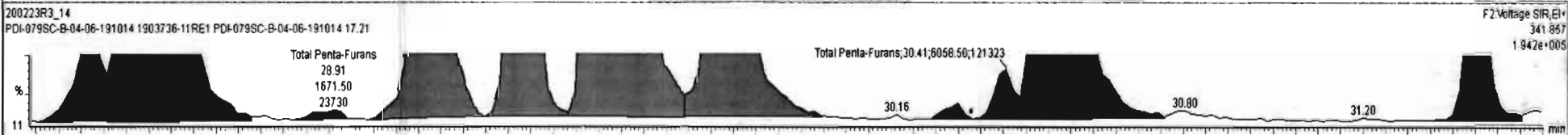
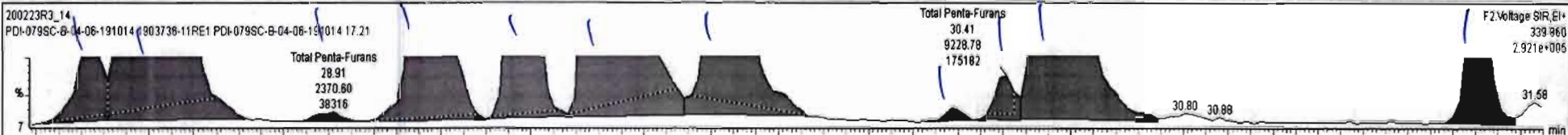
DPE2

200223R3_14



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	9.917	29.27		0.000		NO	549.0		0.101	549.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	29.36	2.250e4	1.545e4	1.550	1.46	NO	4.1989	4.1989
2	45 Total Penta-Furans	29.27	28.52	6.142e5	4.014e5	1.550	1.53	NO	112.38	112.38
3	45 Total Penta-Furans	29.27	28.91	2.371e3	1.672e3	1.550	1.42	NO	0.44725	0.44725
4	45 Total Penta-Furans	29.27	29.11	8.406e4	5.422e4	1.550	1.55	NO	15.300	15.300
5	45 Total Penta-Furans	29.27	29.32	1.283e5	8.245e4	1.550	1.56	NO	23.322	23.322
6	9 1,2,3,7,8-PeCDF	29.53	29.52	1.086e6	7.067e5	1.550	1.54	NO	194.66	194.66
7	45 Total Penta-Furans	29.27	29.80	3.938e5	2.545e5	1.550	1.55	NO	71.739	71.739
8	45 Total Penta-Furans	29.27	30.29	2.404e3	1.771e3	1.550	1.36	NO	0.46198	0.46198
9	45 Total Penta-Furans	29.27	30.41	9.229e3	6.058e3	1.550	1.52	NO	1.6915	1.6915
10	10 2,3,4,7,8-PeCDF	30.53	30.51	6.667e5	4.331e5	1.550	1.54	NO	118.28	118.28
11	45 Total Penta-Furans	29.27	31.44	3.537e4	2.362e4	1.550	1.50	NO	6.5267	6.5267



Dataset: Untitled

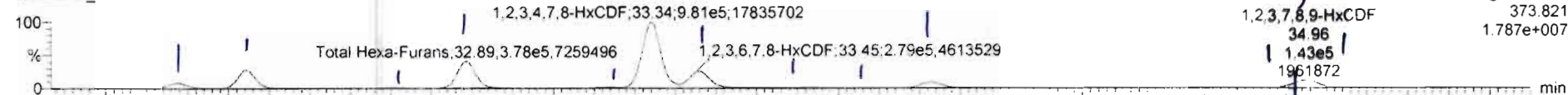
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

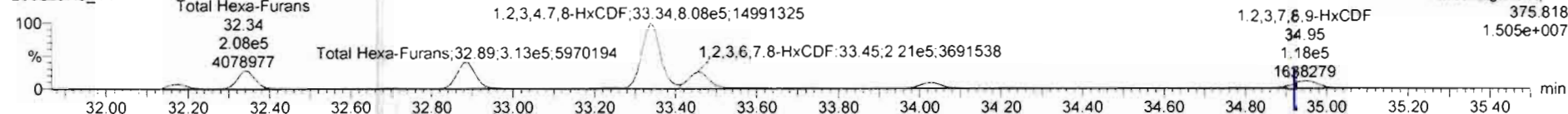
Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

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

200223R3_14

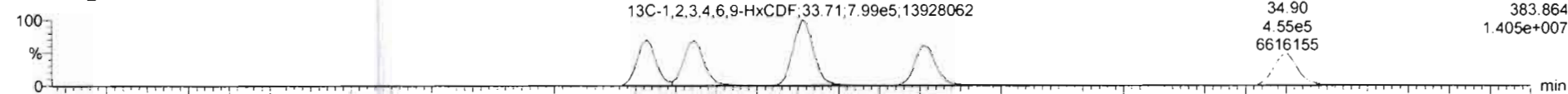


200223R3_14

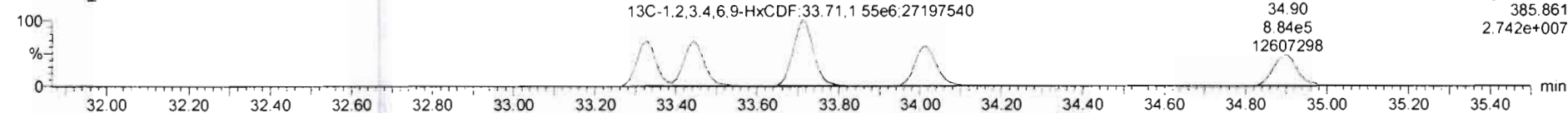


13C-1,2,3,4,7,8-HxCDF

200223R3_14

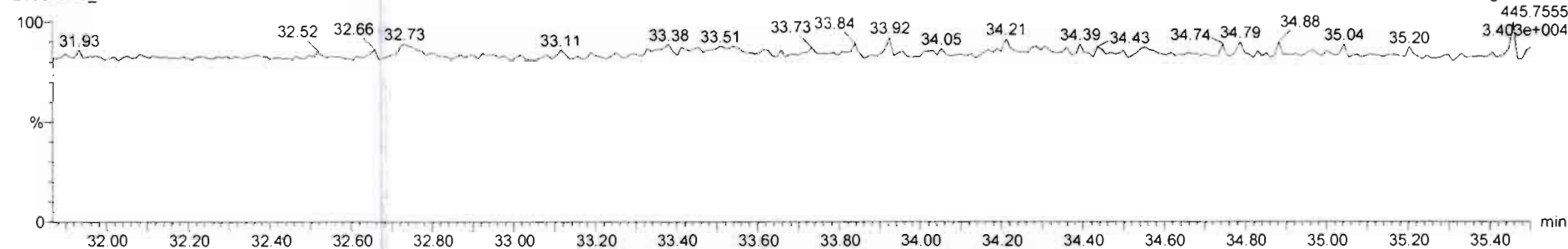


200223R3_14



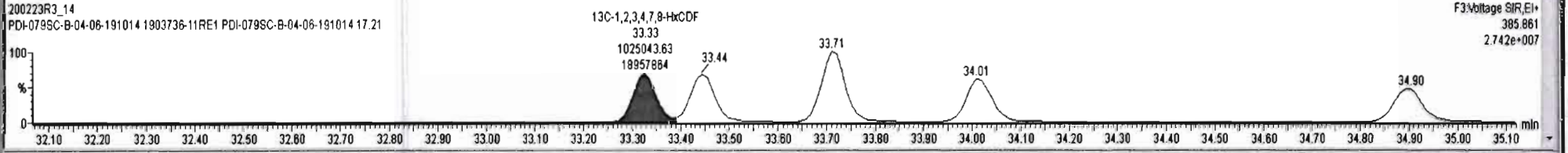
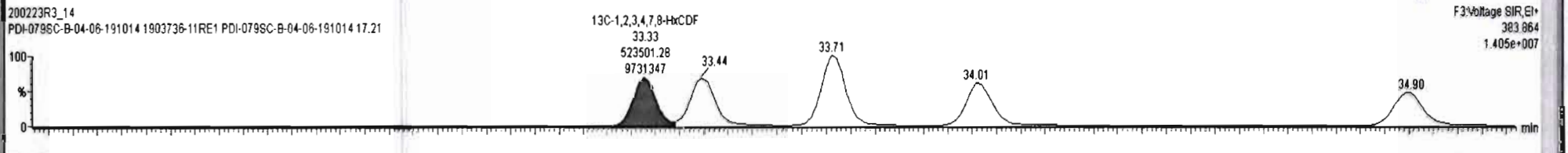
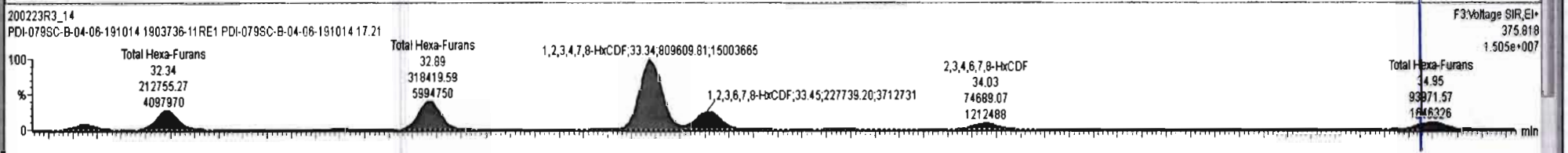
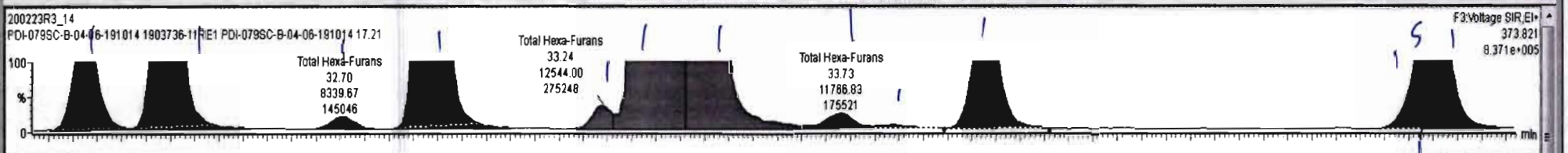
DPE3

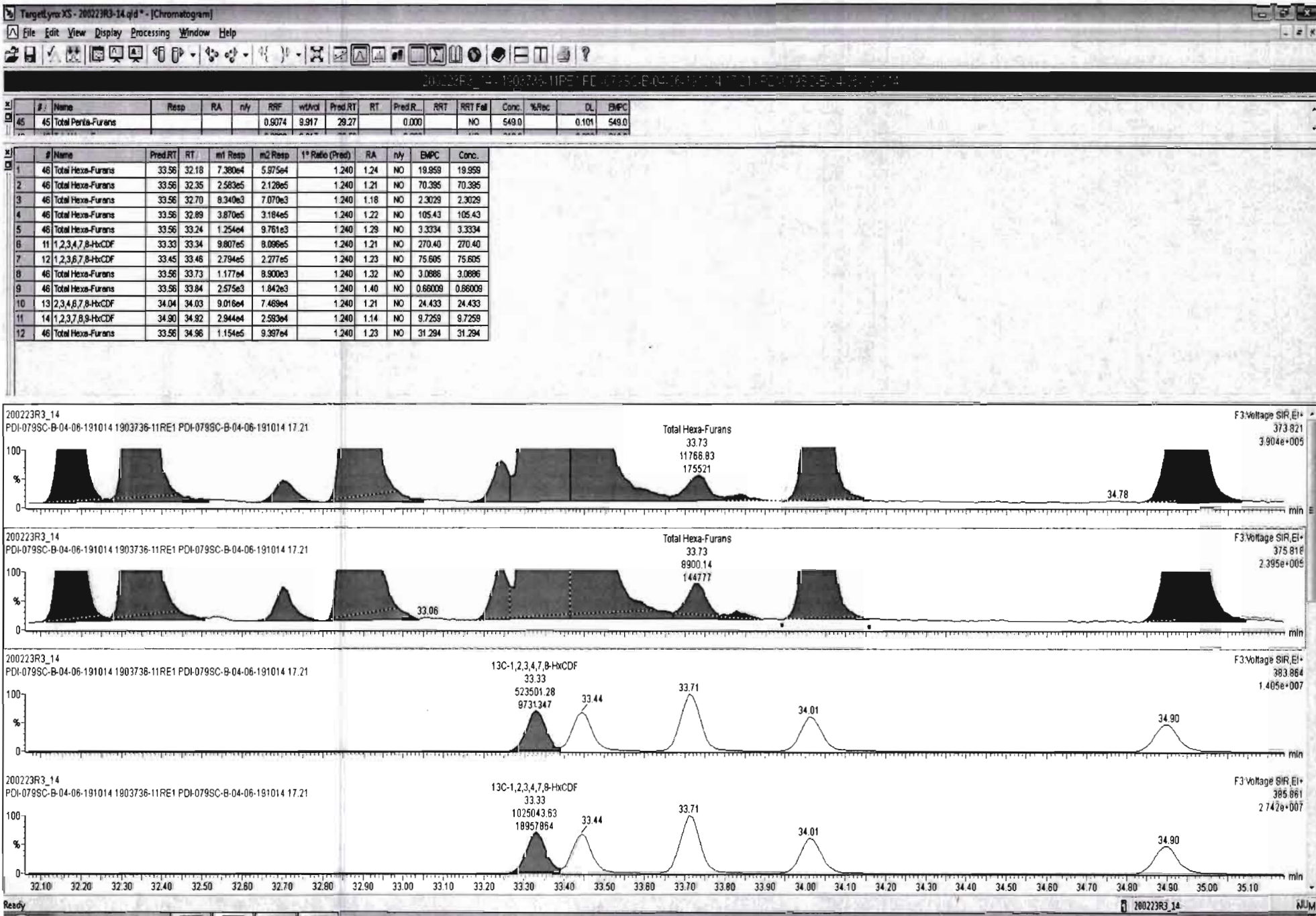
200223R3_14



#	Name	Resp	RA	n/y	R/R	w/Acd	Pred_RT	RT	Pred_R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	9.917	29.27		0.000		NO	549.0		0.101	549.0
46	Total Hexa-Furans				0.8962	9.917	33.58		0.000		NO	616.8		0.223	616.8
47	Total Hexa-Furans				0.8911	9.917	37.93		0.000		NO	618.0		0.540	618.5

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.58	32.18	7.380e4	5.975e4	1.240	1.24	NO	19.959	19.959
2	Total Hexa-Furans	33.58	32.35	2.583e5	2.128e5	1.240	1.21	NO	70.395	70.395
3	Total Hexa-Furans	33.58	32.70	8.340e3	7.070e3	1.240	1.18	NO	2.3029	2.3029
4	Total Hexa-Furans	33.58	32.89	3.870e5	3.184e5	1.240	1.22	NO	105.43	105.43
5	Total Hexa-Furans	33.58	33.24	1.254e4	9.761e3	1.240	1.29	NO	3.3334	3.3334
6	1,2,3,4,7,8-HxCDF	33.33	33.34	9.807e5	8.096e5	1.240	1.21	NO	270.40	270.40
7	1,2,3,6,7,8-HxCDF	33.45	33.46	2.794e5	2.277e5	1.240	1.23	NO	75.605	75.605
8	Total Hexa-Furans	33.58	33.73	1.177e4	8.900e3	1.240	1.32	NO	3.0886	3.0886
9	Total Hexa-Furans	33.58	33.84	2.575e3	1.842e3	1.240	1.40	NO	0.66008	0.66008
10	2,3,4,6,7,8-HxCDF	34.04	34.03	9.015e4	7.469e4	1.240	1.21	NO	24.433	24.433
11	1,2,3,7,8,9-HxCDF	34.90	34.92	2.944e4	2.593e4	1.240	1.14	NO	9.7259	9.7259
12	Total Hexa-Furans	33.58	34.96	1.154e5	9.397e4	1.240	1.23	NO	31.294	31.294





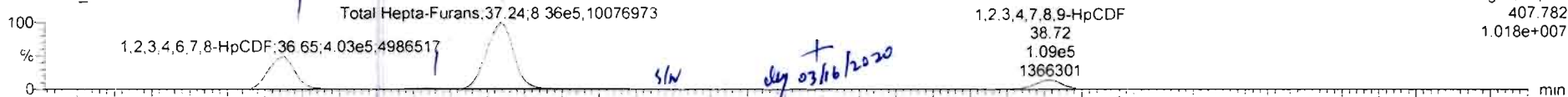
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

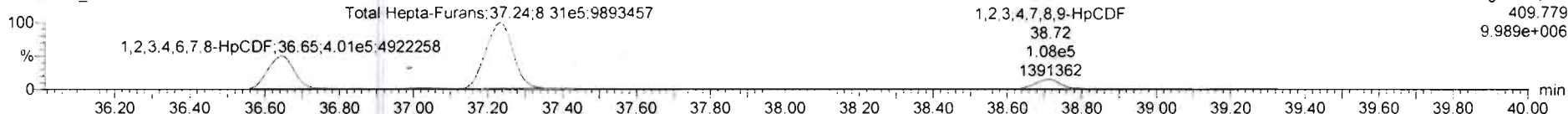
Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

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

200223R3_14

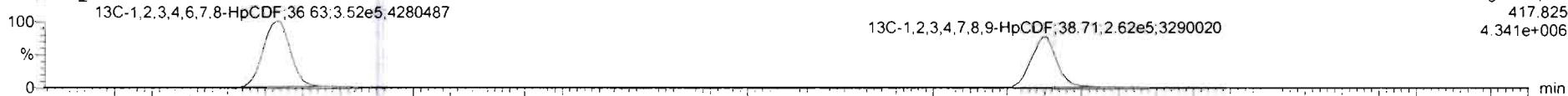


200223R3_14

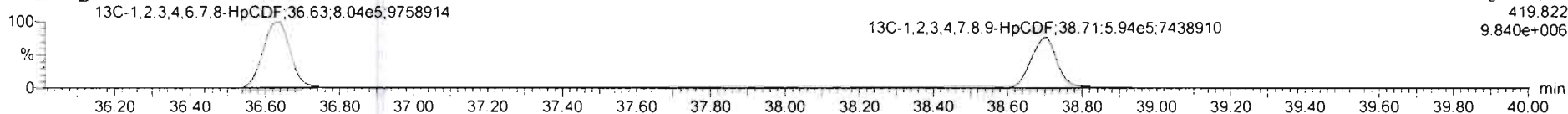


13C-1,2,3,4,6,7,8-HpCDF

200223R3_14

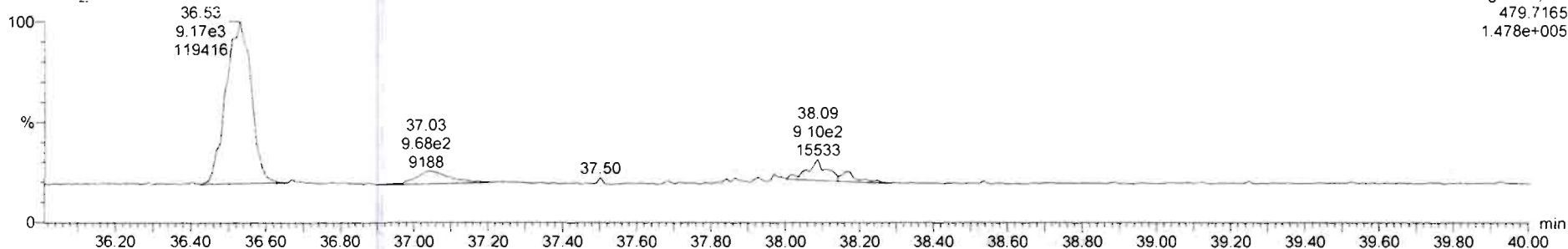


200223R3_14



DPE4

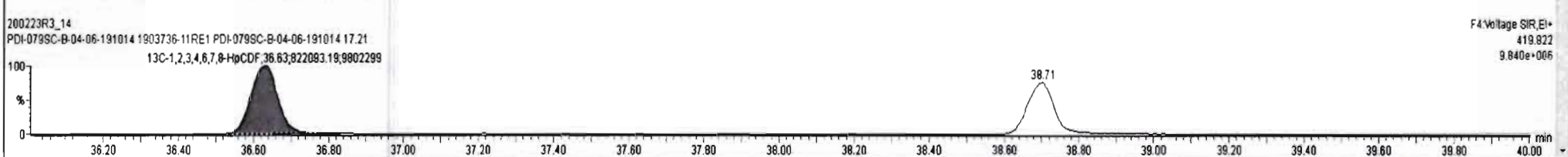
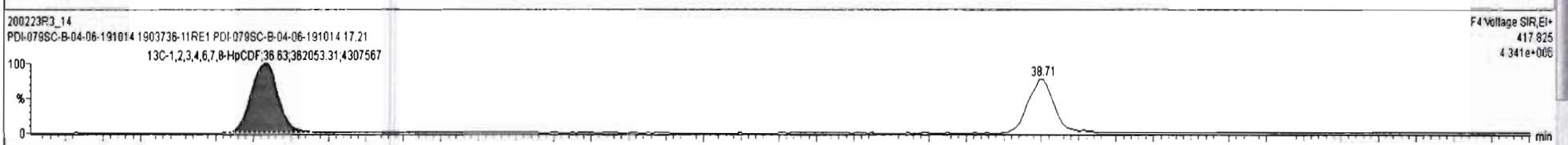
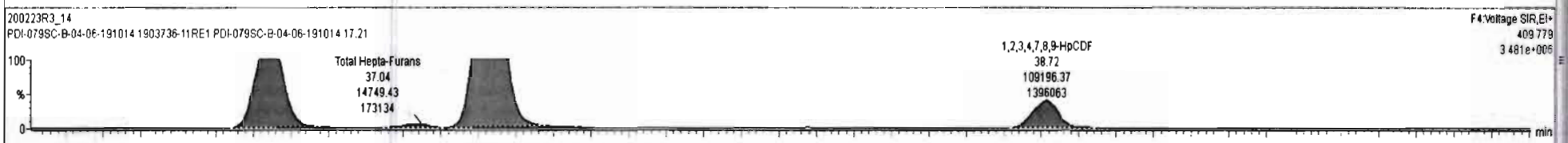
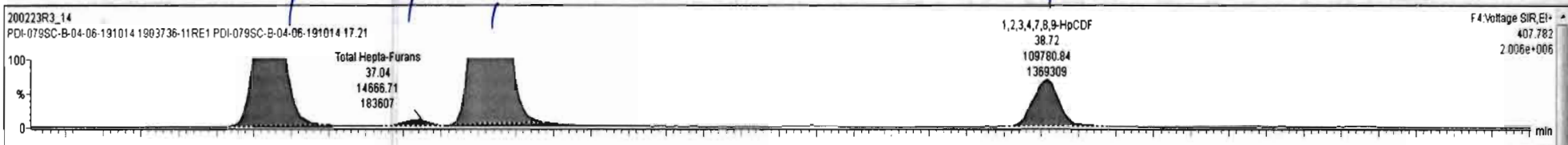
200223R3_14



200223R3_14 - 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21 - PDI-079SC-B-04-06-191014

#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
47	Total Hepta-Furans				0.6511	9.917	37.63		0.000		NO	619.6		0.539	619.6

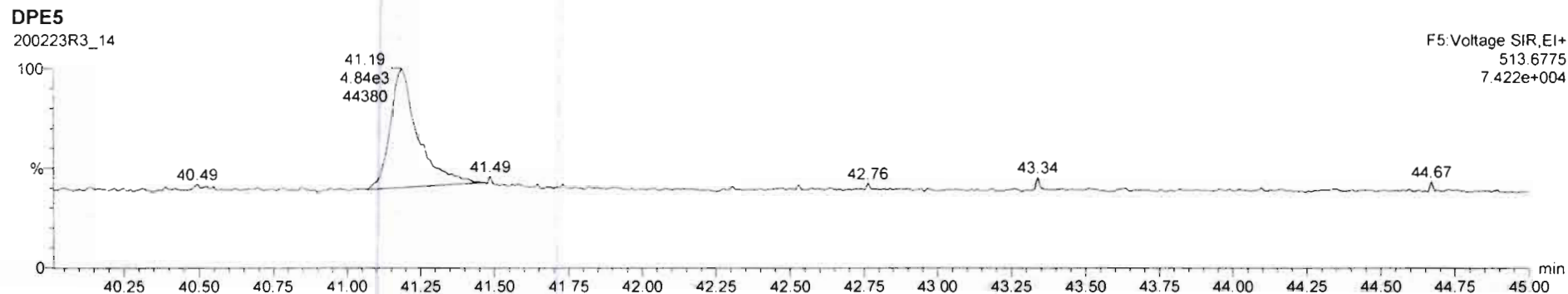
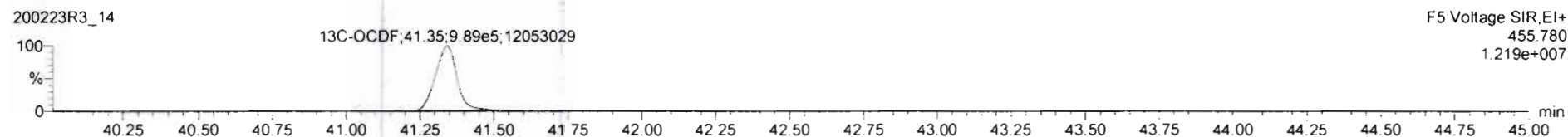
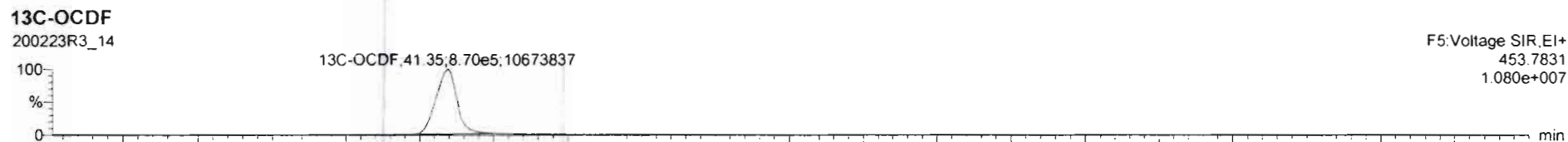
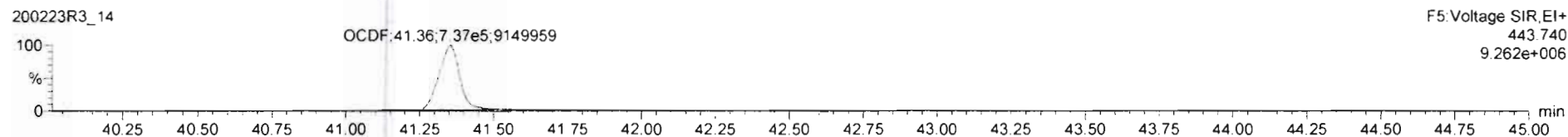
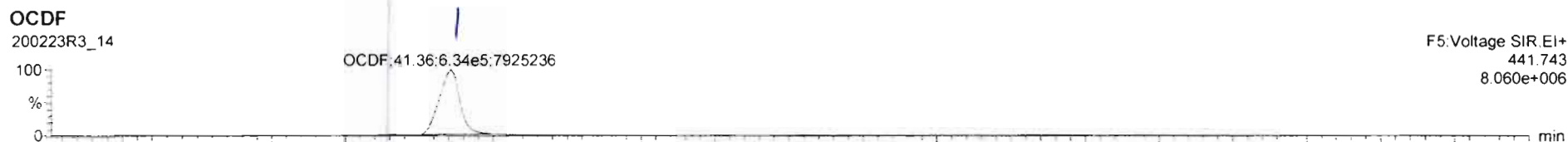
#	Name	Pred RT	RT	rt Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.67	36.85	4.096e5	4.078e5	1.040	1.00	NO	163.58	163.58
2	Total Hepta-Furans	37.63	37.04	1.467e4	1.475e4	1.040	0.99	NO	6.8332	6.8332
3	Total Hepta-Furans	37.63	37.24	8.575e5	8.494e5	1.040	1.01	NO	396.50	396.50
4	1,2,3,4,7,8,9-HpCDF	38.71	38.72	1.098e5	1.092e5	1.040	1.01	NO	52.643	52.643



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

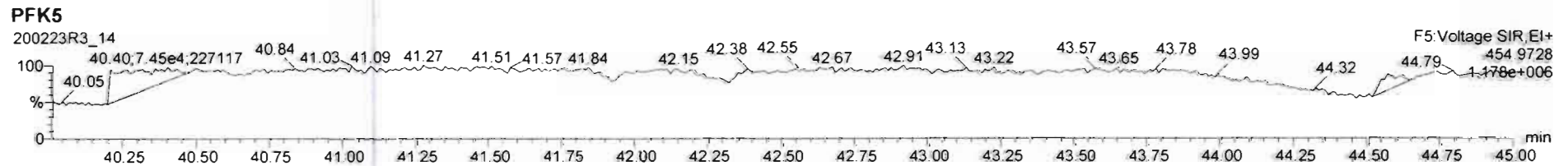
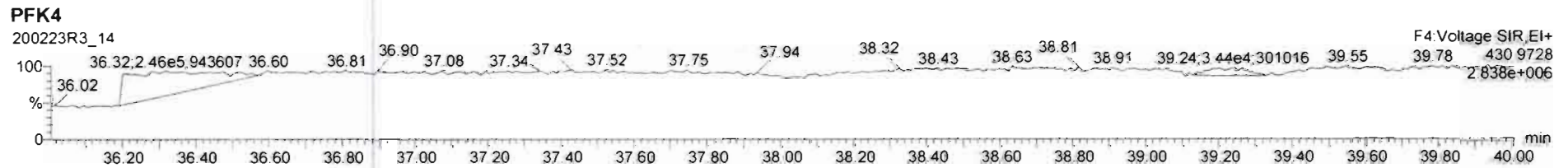
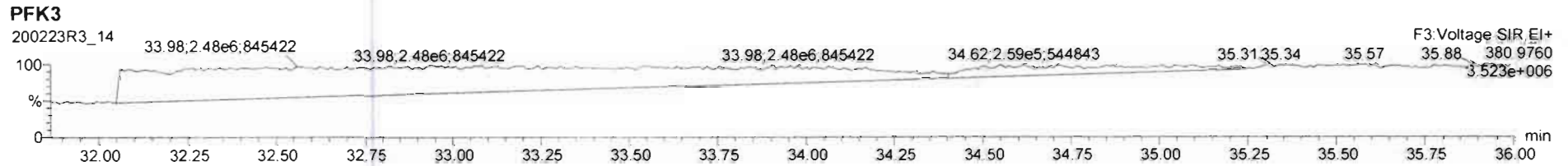
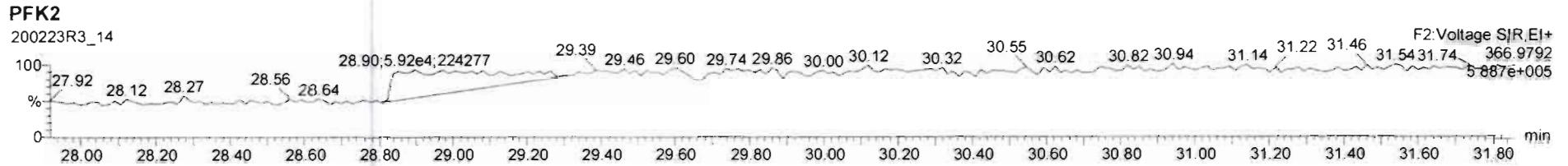
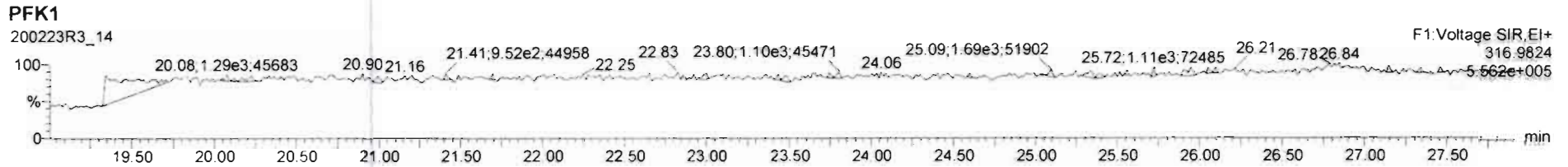
Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_14, Date: 24-Feb-2020, Time: 13:51:35, ID: 1903736-11RE1 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014



Dataset: U:\VG12.PRO\Results\200224R1\200224R1-11.qld

Last Altered: Tuesday, February 25, 2020 08:35:43 Pacific Standard Time

Printed: Tuesday, March 03, 2020 09:08:18 Pacific Standard Time

dy 03-03-2020
3/11/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

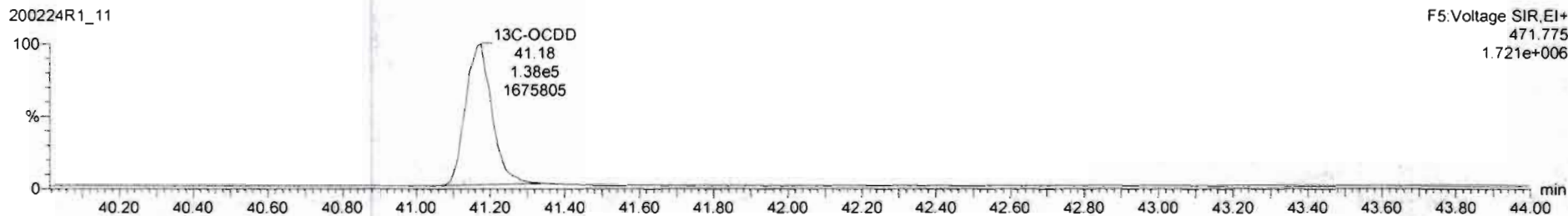
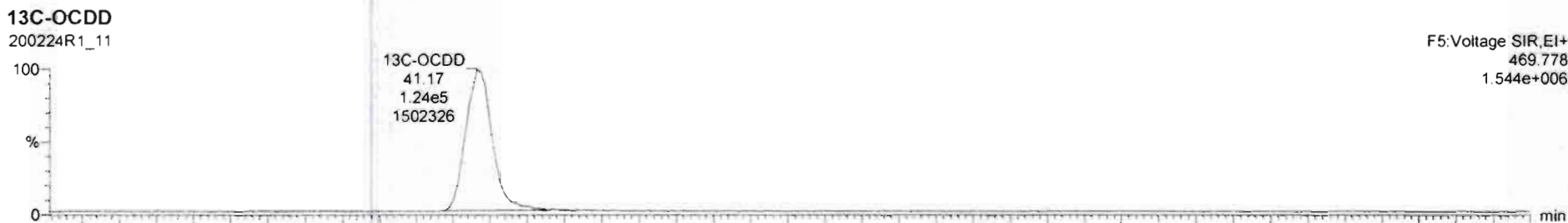
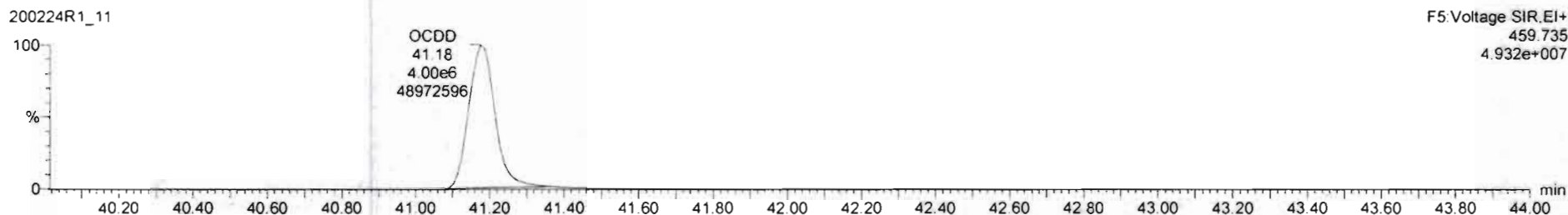
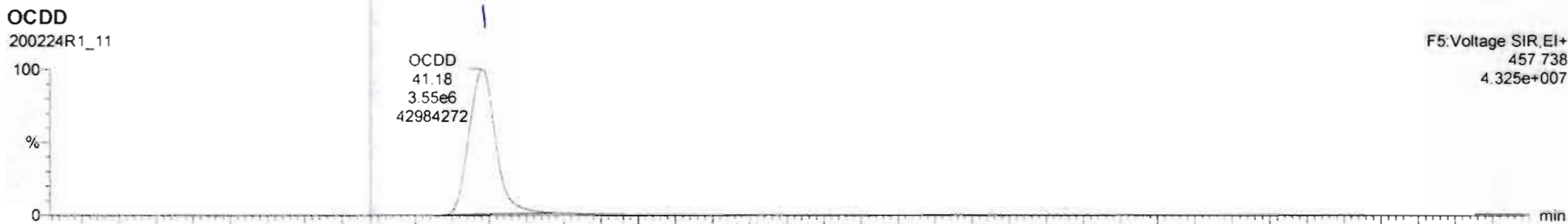
Name: 200224R1_11, Date: 25-Feb-2020, Time: 00:56:31, ID: 1903736-11RE1@5X PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DIL	EMPC
1	7 OCDD	7546694.5...	0.887	NO	0.975	9.917	41.17	41.18	1.00	1.00	NO	11910		3.80	11910
2	24 13C-OCDD	262241.993	0.899	NO	0.707	9.917	41.07	41.17	1.22	1.22	NO	224.3	55.6	0.767	
3	38 13C-1,2,3,4,6,9-HxCDF	333710.289	0.512	NO	1.00	9.917	33.71	33.72	1.00	1.00	NO	201.7	100	0.749	

Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_11, Date: 25-Feb-2020, Time: 00:56:31, ID: 1903736-11RE1@5X PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014



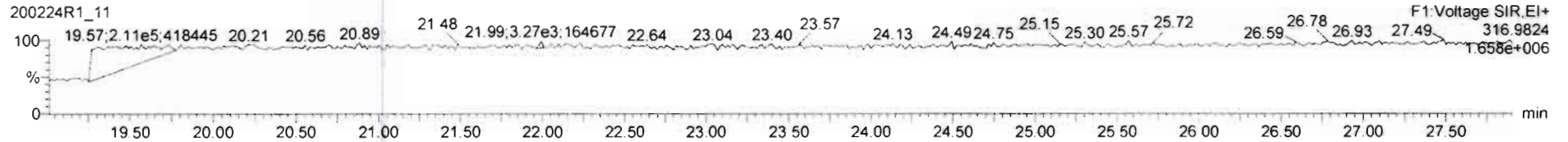
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:32:24 Pacific Standard Time

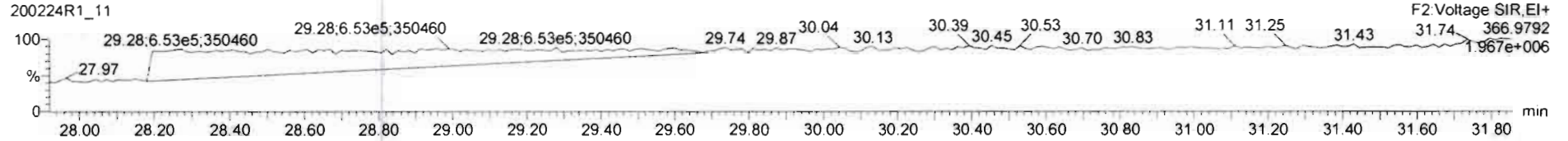
Printed: Tuesday, February 25, 2020 08:32:35 Pacific Standard Time

Name: 200224R1_11, Date: 25-Feb-2020, Time: 00:56:31, ID: 1903736-11RE1@5X PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

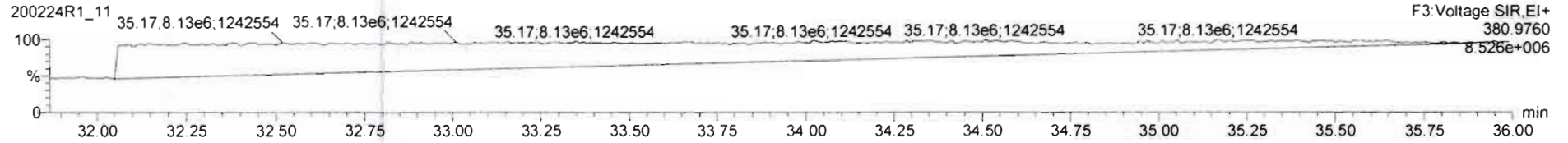
PFK1



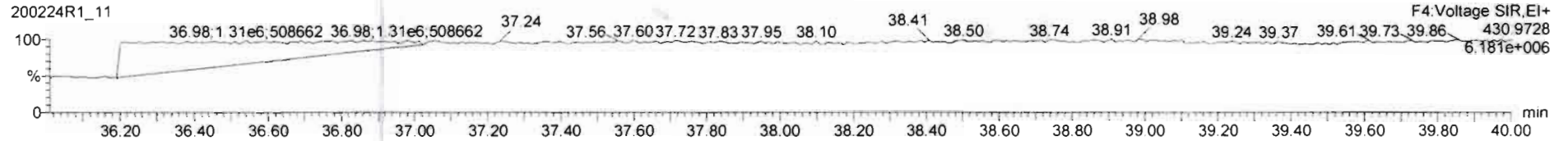
PFK2



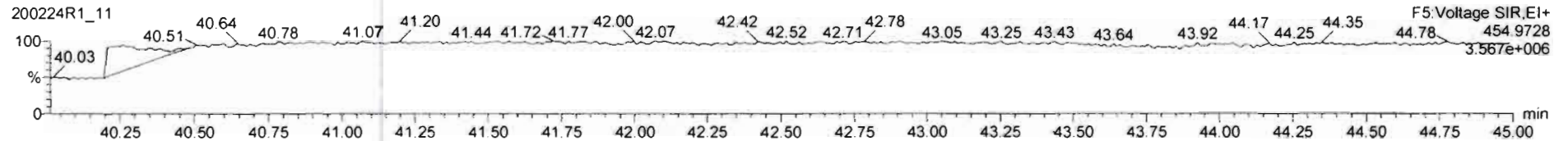
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200223R3\200223R3-15.qld

Last Altered: Monday, March 16, 2020 12:30:13 Pacific Daylight Time

Printed: Monday, March 16, 2020 13:19:24 Pacific Daylight Time

dr 03/17/2020

M 3/17/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

#	Name	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	3.09e3	0.43	YES	0.988	10.335	25.751	25.75	1.001	1.001	NO	0.29806	3/17/20	0.0509	0.206
2	2 1,2,3,7,8-PeCDD	1.93e3	0.77	YES	0.972	10.335	30.826	30.82	1.001	1.001	NO	0.22964		0.0981	0.211
3	3 1,2,3,4,7,8-HxCDD	5.73e3	1.40	NO	1.07	10.335	34.199	34.20	1.000	1.000	NO	0.75375		0.154	0.754
4	4 1,2,3,6,7,8-HxCDD	4.97e4	1.23	NO	0.921	10.335	34.285	34.30	1.000	1.000	NO	6.4902		0.156	6.49
5	5 1,2,3,7,8,9-HxCDD	1.85e4	1.30	NO	0.918	10.335	34.597	34.57	1.001	1.000	NO	2.5992		0.176	2.60
6	6 1,2,3,4,6,7,8-HpCDD	2.81e6	1.03	NO	0.923	10.335	38.067	38.08	1.000	1.001	NO	457.91		0.768	458
7	7 OCDD	1.43e7	0.89	NO	0.975	10.335	41.166	41.18	1.000	1.000	NO	2531.7		0.462	2530
8	8 2,3,7,8-TCDF	1.63e5	0.76	NO	0.802	10.335	24.802	24.81	1.001	1.001	NO	15.600	(13.35)	0.0989	15.6
9	9 1,2,3,7,8-PeCDF	1.94e5	1.55	NO	0.907	10.335	29.528	29.52	1.001	1.001	NO	18.425		0.117	18.4
10	... 2,3,4,7,8-PeCDF	7.71e4	1.55	NO	0.952	10.335	30.499	30.51	1.000	1.001	NO	7.0748		0.108	7.07
11	... 1,2,3,4,7,8-HxCDF	1.77e5	1.19	NO	0.862	10.335	33.327	33.34	1.000	1.000	NO	24.114		0.127	24.1
12	... 1,2,3,6,7,8-HxCDF	5.32e4	1.16	NO	0.841	10.335	33.454	33.45	1.000	1.000	NO	6.7784		0.125	6.78
13	... 2,3,4,6,7,8-HxCDF	1.83e4	1.20	NO	0.898	10.335	34.042	34.03	1.001	1.001	NO	2.3030		0.130	2.30
14	... 1,2,3,7,8,9-HxCDF	1.73e4	1.19	NO	0.858	10.335	34.903	34.95	1.000	1.001	NO	2.5721		0.178	2.57
15	... 1,2,3,4,6,7,8-HpCDF	1.82e5	1.03	NO	0.851	10.335	36.676	36.65	1.001	1.000	NO	31.516		0.236	31.5
16	... 1,2,3,4,7,8,9-HpCDF	2.88e4	1.00	NO	0.980	10.335	38.695	38.72	1.000	1.001	NO	5.8120		0.280	5.81
17	... OCDF	5.96e5	0.86	NO	0.806	10.335	41.347	41.36	1.000	1.000	NO	131.85		0.198	132
18	... 13C-2,3,7,8-TCDD	2.03e6	0.77	NO	1.20	10.335	25.706	25.72	1.026	1.026	NO	133.68	69.1	0.113	
19	... 13C-1,2,3,7,8-PeCDD	1.67e6	0.64	NO	0.967	10.335	30.450	30.80	1.215	1.229	NO	136.52	70.6	0.150	
20	... 13C-1,2,3,4,7,8-HxCDD	1.37e6	1.28	NO	0.874	10.335	34.182	34.19	1.014	1.014	NO	128.54	66.4	0.215	
21	... 13C-1,2,3,6,7,8-HxCDD	1.61e6	1.27	NO	1.05	10.335	34.283	34.28	1.017	1.017	NO	125.67	64.9	0.179	
22	... 13C-1,2,3,7,8,9-HxCDD	1.50e6	1.24	NO	0.974	10.335	34.586	34.56	1.026	1.025	NO	125.93	65.1	0.193	
23	... 13C-1,2,3,4,6,7,8-HpCDD	1.29e6	1.04	NO	0.747	10.335	38.160	38.06	1.132	1.129	NO	140.86	72.8	0.252	
24	... 13C-OCDD	2.25e6	0.89	NO	0.707	10.335	41.059	41.17	1.218	1.221	NO	260.26	67.2	0.186	
25	... 13C-2,3,7,8-TCDF	2.52e6	0.78	NO	1.07	10.335	24.887	24.78	0.993	0.989	NO	133.52	69.0	0.143	
26	... 13C-1,2,3,7,8-PeCDF	2.25e6	1.60	NO	1.00	10.335	29.473	29.51	1.176	1.177	NO	126.89	65.6	0.231	
27	... 13C-2,3,4,7,8-PeCDF	2.22e6	1.57	NO	0.962	10.335	30.443	30.50	1.215	1.217	NO	130.09	67.2	0.240	
28	... 13C-1,2,3,4,7,8-HxCDF	1.65e6	0.51	NO	1.05	10.335	33.305	33.33	0.988	0.989	NO	128.45	66.4	0.245	
29	... 13C-1,2,3,6,7,8-HxCDF	1.81e6	0.52	NO	1.19	10.335	33.407	33.44	0.991	0.992	NO	124.05	64.1	0.216	
30	... 13C-2,3,4,6,7,8-HxCDF	1.71e6	0.51	NO	1.07	10.335	34.017	34.01	1.009	1.009	NO	130.95	67.7	0.241	

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-15.qld

Last Altered: Monday, March 16, 2020 12:30:13 Pacific Daylight Time

Printed: Monday, March 16, 2020 13:19:24 Pacific Daylight Time

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

#	Name	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	1.52e6	0.51	NO	0.922	10.335	34.924	34.90	1.036	1.035	NO	134.75	69.6	0.279	
32	... 13C-1,2,3,4,6,7,8-HpCDF	1.31e6	0.44	NO	0.767	10.335	36.676	36.64	1.088	1.087	NO	139.49	72.1	0.239	
33	... 13C-1,2,3,4,7,8,9-HpCDF	9.80e5	0.44	NO	0.552	10.335	38.699	38.69	1.148	1.148	NO	144.92	74.9	0.332	
34	... 13C-OCDF	2.17e6	0.89	NO	0.789	10.335	41.295	41.35	1.225	1.227	NO	224.93	58.1	0.158	
35	... 37Cl-2,3,7,8-TCDD	8.58e5			1.18	10.335	25.739	25.75	1.027	1.027	NO	57.672	74.5	0.0306	
36	... 13C-1,2,3,4-TCDD	2.45e6	0.78	NO	1.00	10.335	25.110	25.06	1.000	1.000	NO	193.51	100	0.136	
37	... 13C-1,2,3,4-TCDF	3.43e6	0.79	NO	1.00	10.335	23.370	23.30	1.000	1.000	NO	193.51	100	0.152	
38	... 13C-1,2,3,4,6,9-HxCDF	2.37e6	0.51	NO	1.00	10.335	33.710	33.71	1.000	1.000	NO	193.51	100	0.257	
39	... Total Tetra-Dioxins				0.988	10.335	24.620		0.000		NO	2.7053		0.0503	3.28
40	... Total Penta-Dioxins				0.972	10.335	29.960		0.000		NO	3.7336		0.0981	4.07
41	... Total Hexa-Dioxins				0.921	10.335	33.635		0.000		NO	69.761		0.170	69.8
42	... Total Hepta-Dioxins				0.923	10.335	37.640		0.000		NO	849.40		0.768	849
43	... Total Tetra-Furans				0.802	10.335	23.610		0.000		NO	99.876		0.0989	101
44	... 1st Func. Penta-Furans				0.907	10.335	27.090		0.000		NO	15.510		0.0289	15.5
45	... Total Penta-Furans				0.907	10.335	29.275		0.000		NO	47.903		0.115	52.3
46	... Total Hexa-Furans				0.898	10.335	33.555		0.000		NO	74.430		0.134	74.4
47	... Total Hepta-Furans				0.851	10.335	37.835		0.000		NO	194.77		0.273	195

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-15.qld

Last Altered: Monday, March 16, 2020 12:30:13 Pacific Daylight Time

Printed: Monday, March 16, 2020 13:19:24 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01

Tetra-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	26.75	1.313	YES	3.37e2	8.84e5	0.000	0.0439
2	39 Total Tetra-Dioxins	26.09	0.840	NO	3.63e2	8.84e5	0.0768	0.0768
3	1 2,3,7,8-TCDD	25.75	0.428	YES	9.25e2	8.84e5	0.000	0.206
4	39 Total Tetra-Dioxins	25.48	0.872	NO	9.39e2	8.84e5	0.195	0.195
5	39 Total Tetra-Dioxins	25.02	0.932	YES	5.46e2	8.84e5	0.000	0.100
6	39 Total Tetra-Dioxins	24.63	0.971	YES	3.85e2	8.84e5	0.000	0.0679
7	39 Total Tetra-Dioxins	24.48	0.662	NO	2.44e2	8.84e5	0.0592	0.0592
8	39 Total Tetra-Dioxins	23.97	0.746	NO	8.04e2	8.84e5	0.182	0.182
9	39 Total Tetra-Dioxins	23.74	0.907	YES	8.49e2	8.84e5	0.000	0.160
10	39 Total Tetra-Dioxins	23.46	0.861	NO	1.67e3	8.84e5	0.349	0.349
11	39 Total Tetra-Dioxins	22.52	0.719	NO	5.18e2	8.84e5	0.120	0.120
12	39 Total Tetra-Dioxins	22.04	0.772	NO	1.86e3	8.84e5	0.413	0.413
13	39 Total Tetra-Dioxins	21.62	0.800	NO	6.03e3	8.84e5	1.31	1.31

Penta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	29.07	0.553	NO	1.06e3	6.49e5	0.356	0.356
2	40 Total Penta-Dioxins	28.56	0.659	NO	5.00e3	6.49e5	1.50	1.50
3	40 Total Penta-Dioxins	31.22	0.880	YES	5.49e2	6.49e5	0.000	0.121
4	40 Total Penta-Dioxins	30.90	0.556	NO	3.65e2	6.49e5	0.122	0.122
5	2 1,2,3,7,8-PeCDD	30.82	0.771	YES	8.39e2	6.49e5	0.000	0.211
6	40 Total Penta-Dioxins	30.39	0.644	NO	3.32e2	6.49e5	0.101	0.101
7	40 Total Penta-Dioxins	30.04	0.718	NO	1.60e3	6.49e5	0.456	0.456
8	40 Total Penta-Dioxins	29.83	0.587	NO	9.48e2	6.49e5	0.306	0.306
9	40 Total Penta-Dioxins	29.74	0.685	NO	9.04e2	6.49e5	0.265	0.265
10	40 Total Penta-Dioxins	29.55	0.711	NO	2.19e3	6.49e5	0.628	0.628

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-15.qld

Last Altered: Monday, March 16, 2020 12:30:13 Pacific Daylight Time

Printed: Monday, March 16, 2020 13:19:24 Pacific Daylight Time

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	34.57	1.300	NO	1.05e4	8.32e5	2.60	2.60
2	41 Total Hexa-Dioxins	34.47	1.176	NO	2.10e3	8.35e5	0.547	0.547
3	4 1,2,3,6,7,8-HxCDD	34.30	1.227	NO	2.74e4	9.01e5	6.49	6.49
4	3 1,2,3,4,7,8-HxCDD	34.20	1.398	NO	3.34e3	7.72e5	0.754	0.754
5	41 Total Hexa-Dioxins	33.52	1.191	NO	1.04e5	8.35e5	26.9	26.9
6	41 Total Hexa-Dioxins	33.27	1.133	NO	1.34e4	8.35e5	3.55	3.55
7	41 Total Hexa-Dioxins	32.73	1.249	NO	1.14e5	8.35e5	28.9	28.9

Hepta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.08	1.026	NO	1.43e6	6.55e5	458	458
2	42 Total Hepta-Dioxins	37.03	1.030	NO	1.22e6	6.55e5	391	391

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-15.qld

Last Altered: Monday, March 16, 2020 12:30:13 Pacific Daylight Time

Printed: Monday, March 16, 2020 13:19:24 Pacific Daylight Time

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01

Tetra-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	20.66	0.772	NO	2.17e5	1.11e6	47.7	47.7
2	43 Total Tetra-Furans	20.09	0.714	NO	4.26e3	1.11e6	0.980	0.980
3	43 Total Tetra-Furans	19.55	0.782	NO	1.89e3	1.11e6	0.413	0.413
4	43 Total Tetra-Furans	25.20	0.735	NO	3.54e3	1.11e6	0.800	0.800
5	8 2,3,7,8-TCDF	24.81	0.760	NO	7.03e4	1.11e6	15.6	15.6
6	43 Total Tetra-Furans	24.70	0.793	NO	7.88e3	1.11e6	1.71	1.71
7	43 Total Tetra-Furans	24.36	1.100	YES	8.54e2	1.11e6	0.000	0.132
8	43 Total Tetra-Furans	24.13	0.598	YES	2.51e3	1.11e6	0.000	0.553
9	43 Total Tetra-Furans	23.83	0.756	NO	6.34e4	1.11e6	14.1	14.1
10	43 Total Tetra-Furans	23.30	0.810	NO	1.07e4	1.11e6	2.28	2.28
11	43 Total Tetra-Furans	23.18	0.790	NO	1.61e4	1.11e6	3.50	3.50
12	43 Total Tetra-Furans	22.38	0.719	NO	3.25e3	1.11e6	0.746	0.746
13	43 Total Tetra-Furans	22.20	0.697	NO	7.02e2	1.11e6	0.164	0.164
14	43 Total Tetra-Furans	22.05	0.732	NO	6.59e3	1.11e6	1.49	1.49
15	43 Total Tetra-Furans	21.57	0.762	NO	2.86e4	1.11e6	6.34	6.34
16	43 Total Tetra-Furans	21.19	0.721	NO	7.25e3	1.11e6	1.66	1.66
17	43 Total Tetra-Furans	26.89	0.873	NO	1.07e4	1.11e6	2.21	2.21
18	43 Total Tetra-Furans	25.47	0.867	NO	6.75e2	1.11e6	0.139	0.139

Penta-Furans function 1

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.89	1.543	NO	9.86e4	1.37e6	15.5	15.5

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-15.qld

Last Altered: Monday, March 16, 2020 12:30:13 Pacific Daylight Time

Printed: Monday, March 16, 2020 13:19:24 Pacific Daylight Time

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01

Penta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	28.52	1.539	NO	7.29e4	1.37e6	11.5	11.5
2	45 Total Penta-Furans	28.38	2.078	YES	3.50e3	1.37e6	0.000	0.410
3	45 Total Penta-Furans	31.46	1.336	NO	4.04e3	1.37e6	0.675	0.675
4	10 2,3,4,7,8-PeCDF	30.51	1.549	NO	4.68e4	1.35e6	7.07	7.07
5	45 Total Penta-Furans	29.80	1.529	NO	4.22e4	1.37e6	6.66	6.66
6	9 1,2,3,7,8-PeCDF	29.52	1.549	NO	1.18e5	1.39e6	18.4	18.4
7	45 Total Penta-Furans	29.32	1.610	NO	1.49e4	1.37e6	2.31	2.31
8	45 Total Penta-Furans	29.11	1.404	NO	7.77e3	1.37e6	1.27	1.27
9	45 Total Penta-Furans	30.53	1.567	NO	2.54e4	1.37e6	0.000	3.97

Hexa-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	12 1,2,3,6,7,8-HxCDF	33.45	1.165	NO	2.86e4	6.16e5	6.78	6.78
2	11 1,2,3,4,7,8-HxCDF	33.34	1.191	NO	9.63e4	5.60e5	24.1	24.1
3	46 Total Hexa-Furans	33.23	1.106	NO	1.43e3	5.68e5	0.351	0.351
4	46 Total Hexa-Furans	32.88	1.200	NO	1.15e5	5.68e5	27.3	27.3
5	46 Total Hexa-Furans	32.71	1.229	NO	9.51e2	5.68e5	0.222	0.222
6	46 Total Hexa-Furans	32.35	1.234	NO	3.16e4	5.68e5	7.38	7.38
7	46 Total Hexa-Furans	32.18	1.253	NO	7.28e3	5.68e5	1.69	1.69
8	14 1,2,3,7,8,9-HxCDF	34.95	1.190	NO	9.43e3	5.17e5	2.57	2.57
9	13 2,3,4,6,7,8-HxCDF	34.03	1.196	NO	9.95e3	5.79e5	2.30	2.30
10	46 Total Hexa-Furans	33.71	1.151	NO	9.98e2	5.68e5	0.240	0.240
11	46 Total Hexa-Furans	34.96	1.249	NO	6.46e3	5.68e5	1.50	1.50

Hepta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	38.72	0.999	NO	1.44e4	3.00e5	5.81	5.81
2	47 Total Hepta-Furans	37.24	1.007	NO	3.96e5	3.49e5	157	157
3	47 Total Hepta-Furans	37.04	0.933	NO	1.78e3	3.49e5	0.733	0.733
4	15 1,2,3,4,6,7,8-HpCDF	36.65	1.028	NO	9.20e4	3.97e5	31.5	31.5

Dataset: Untitled

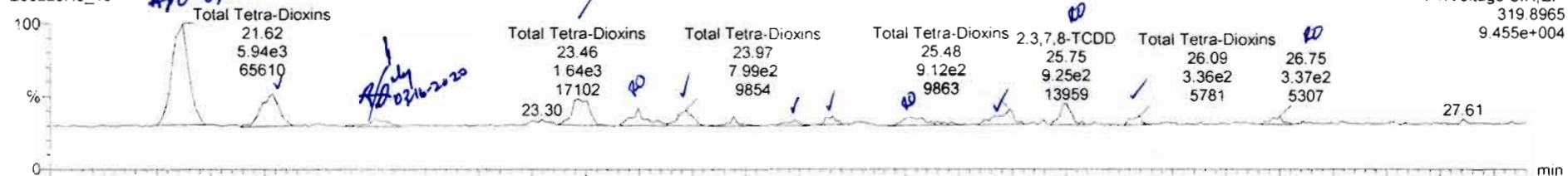
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

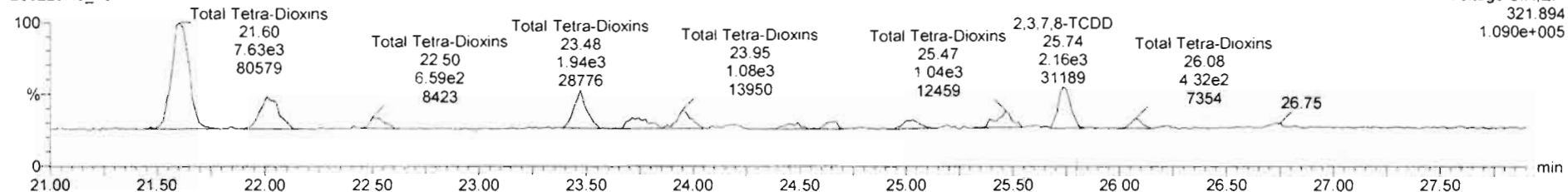
Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

2,3,7,8-TCDD

200223R3_15

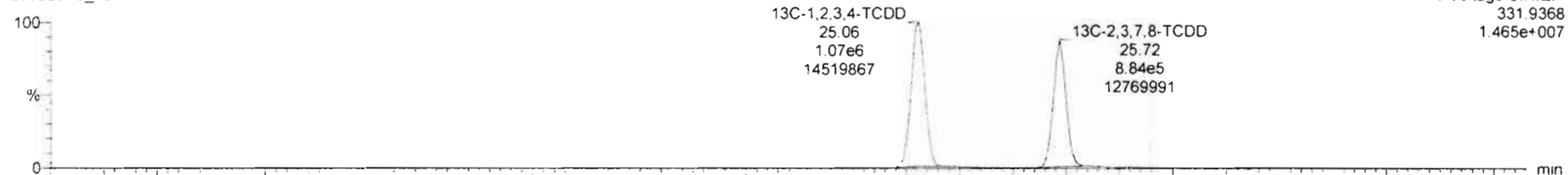


200223R3_15

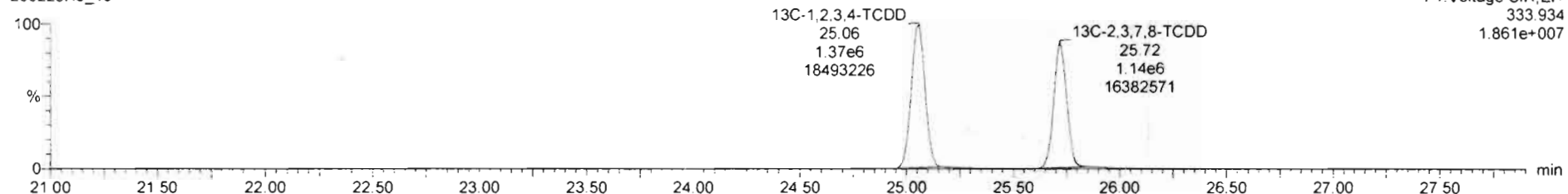


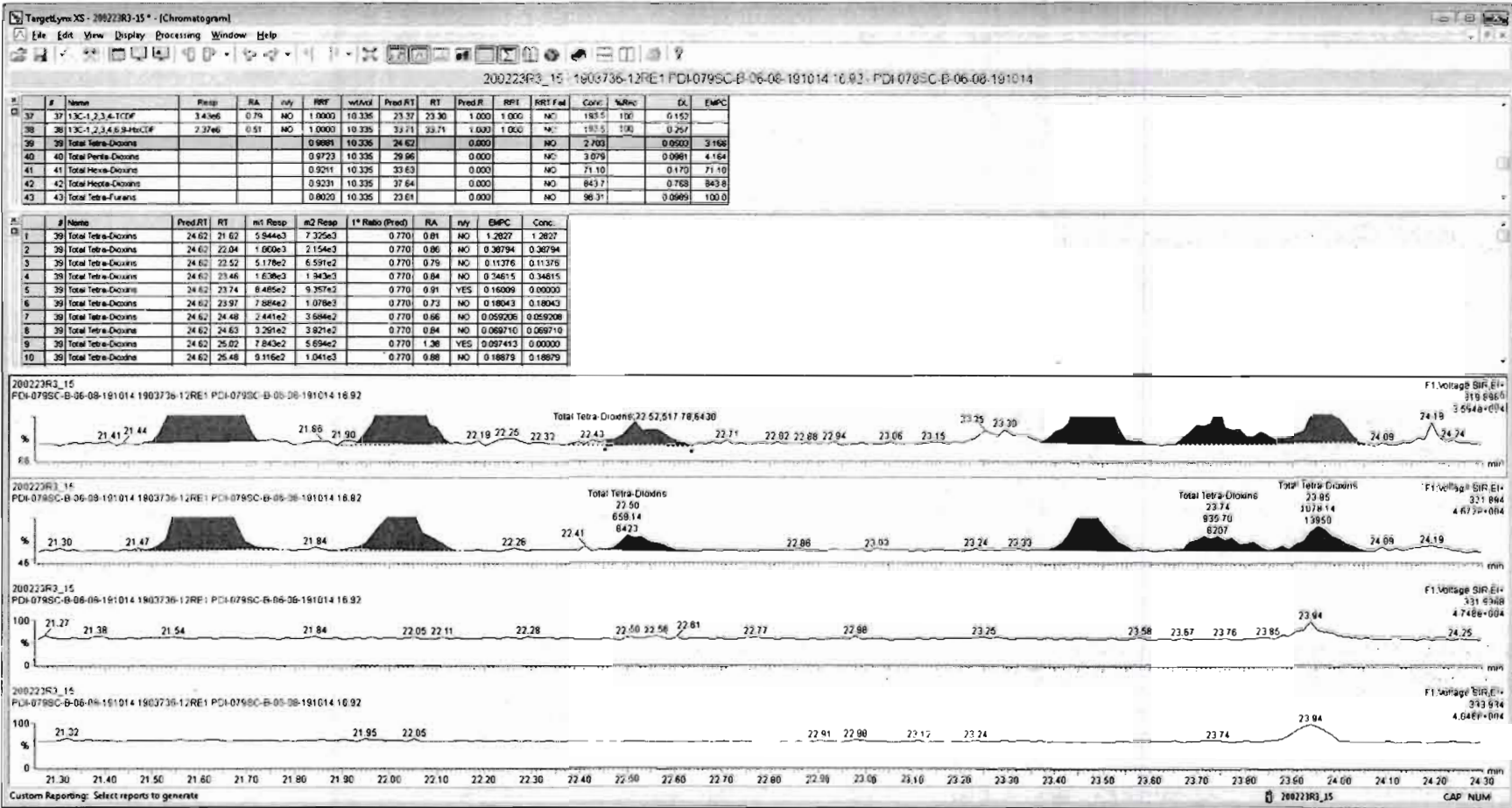
13C-2,3,7,8-TCDD

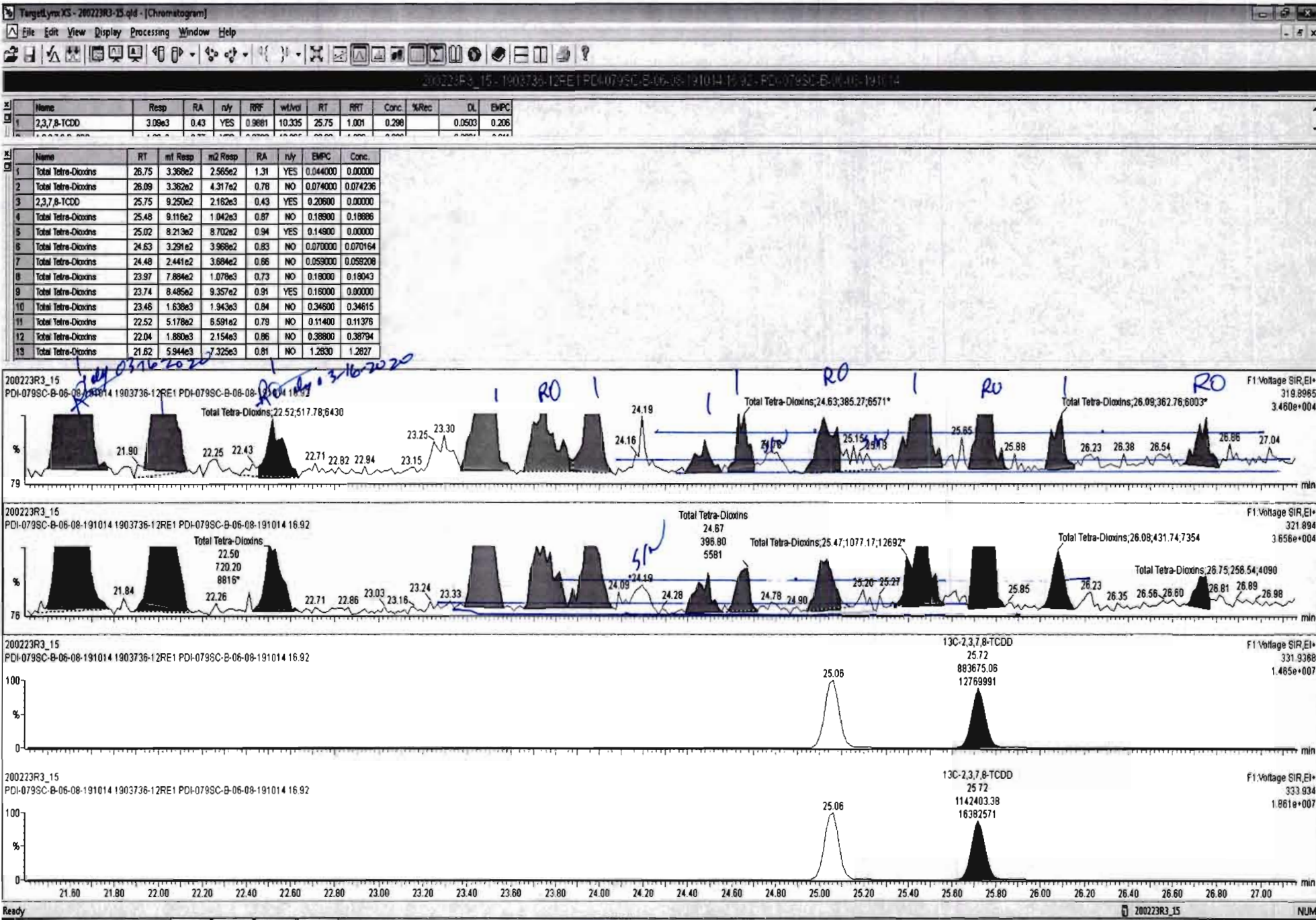
200223R3_15



200223R3_15







Dataset: Untitled

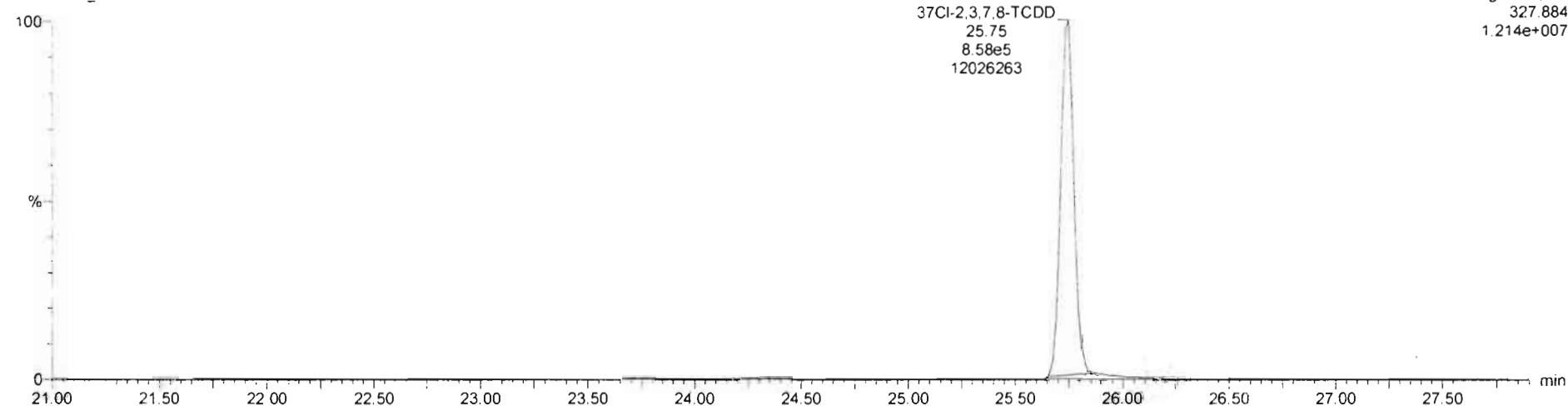
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

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

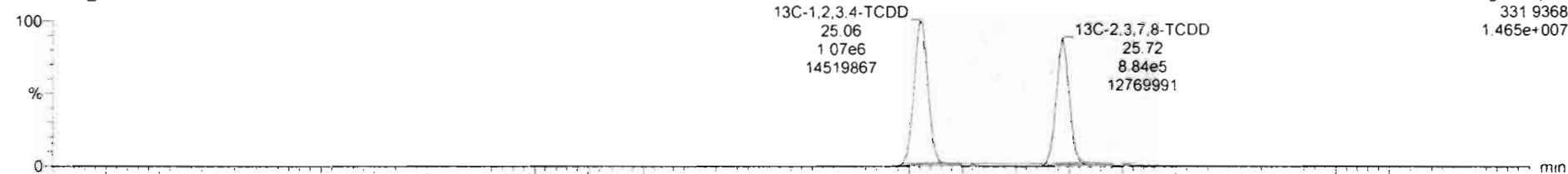
200223R3_15



F1:Voltage SIR,El+
327.884
1.214e+007

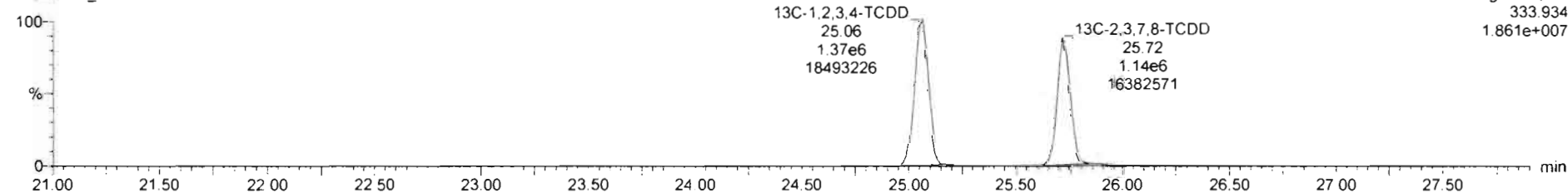
13C-1,2,3,4-TCDD

200223R3_15



F1:Voltage SIR,El+
331.9368
1.465e+007

200223R3_15



F1:Voltage SIR,El+
333.934
1.861e+007

Dataset: Untitled

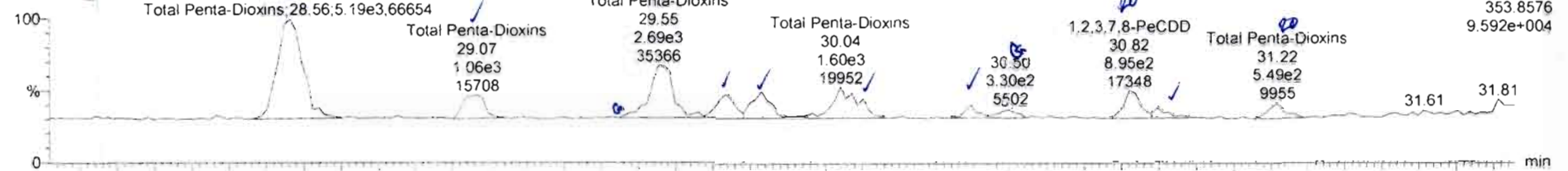
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

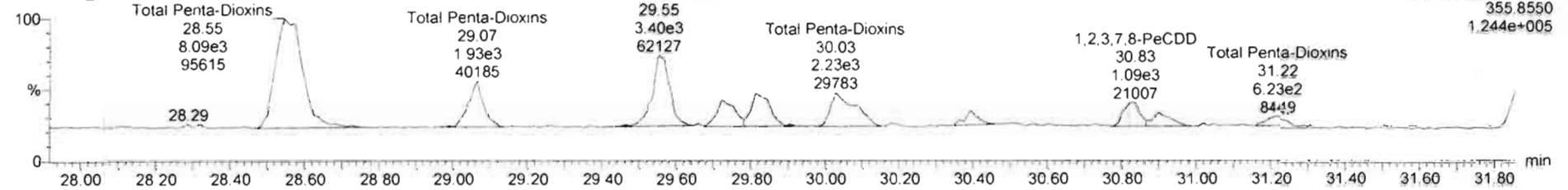
Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

1,2,3,7,8-PeCDD

200223R3_15

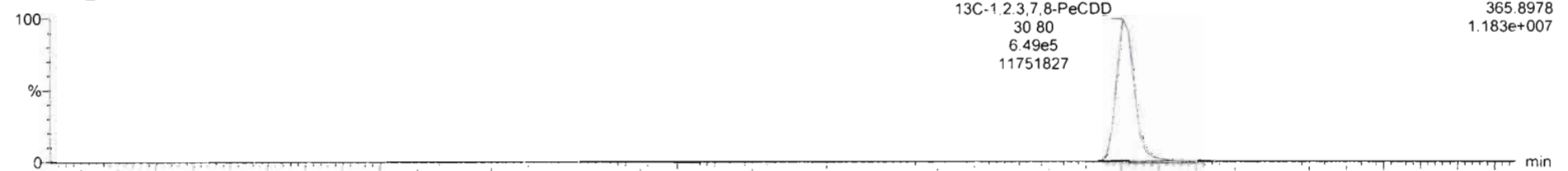


200223R3_15

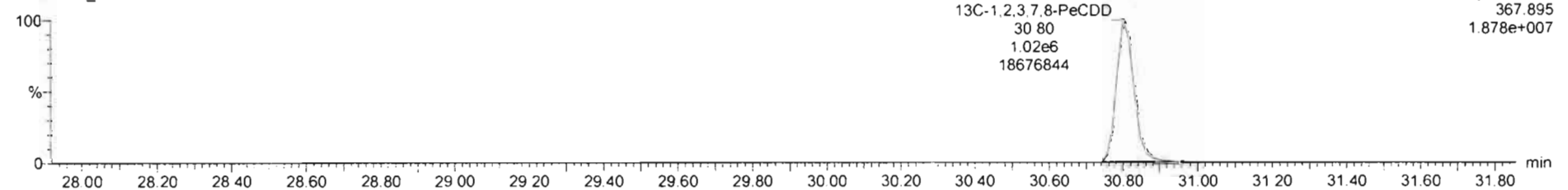


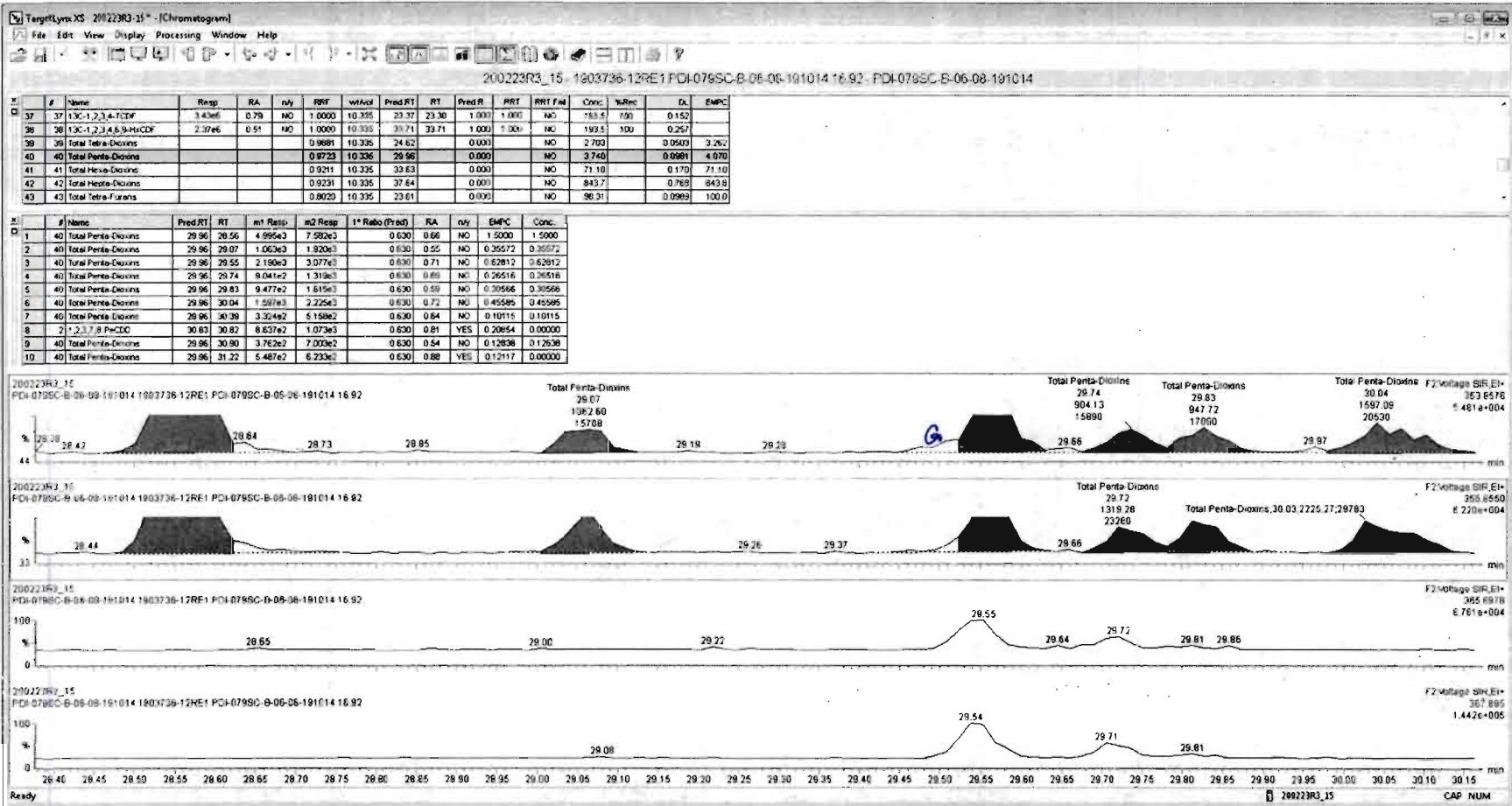
13C-1,2,3,7,8-PeCDD

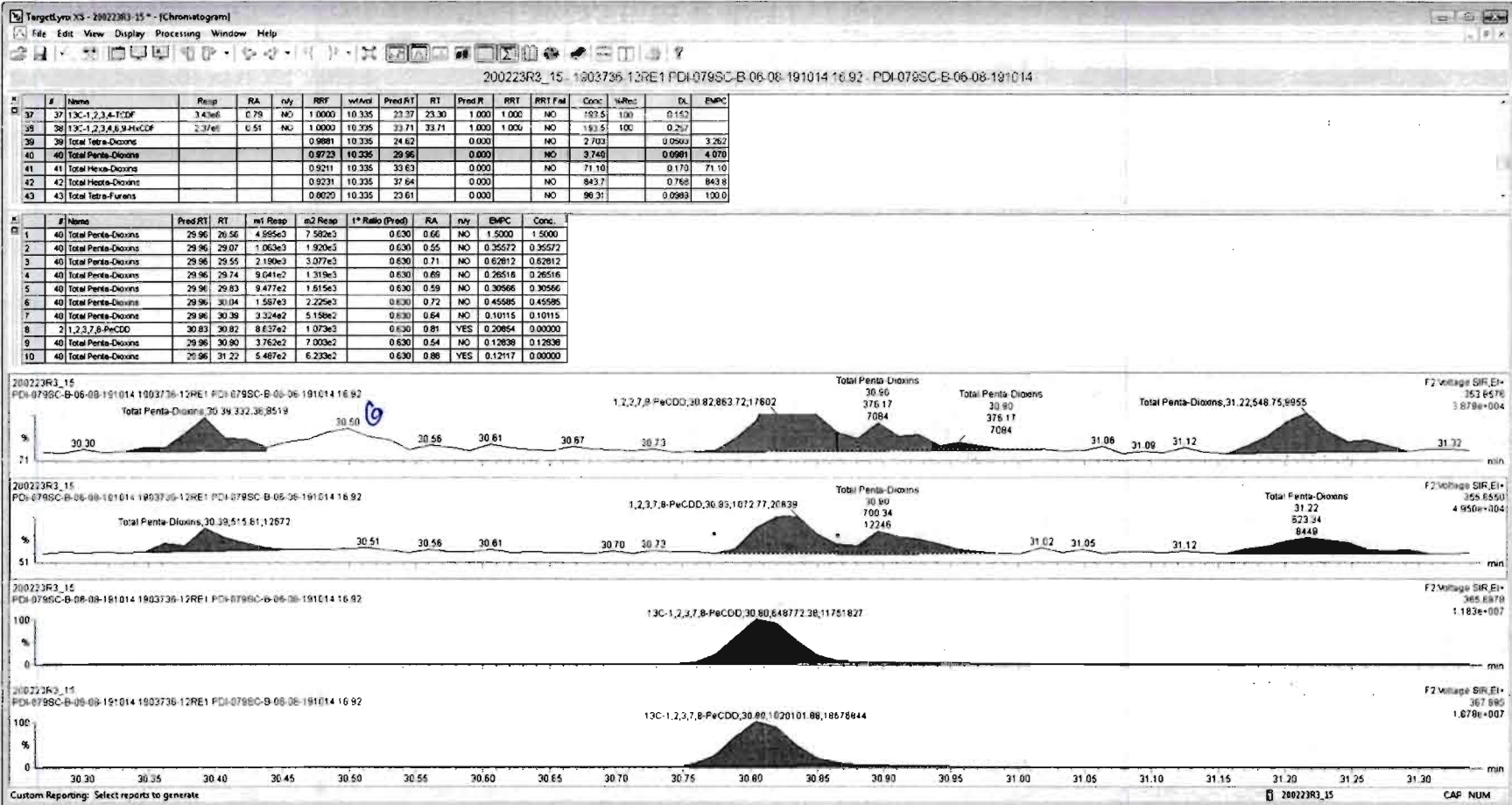
200223R3_15



200223R3_15







Dataset: Untitled

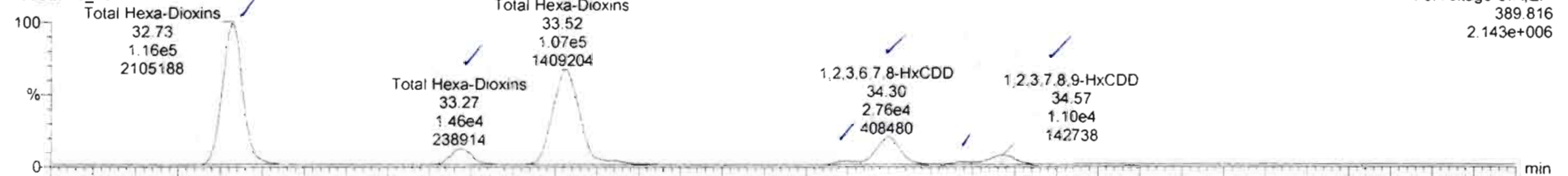
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

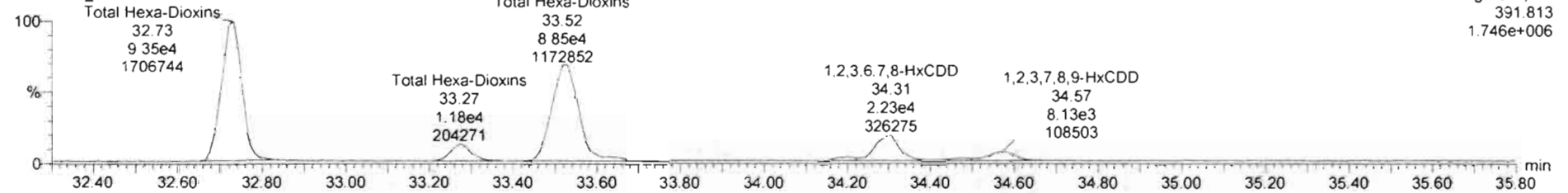
Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

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

200223R3_15

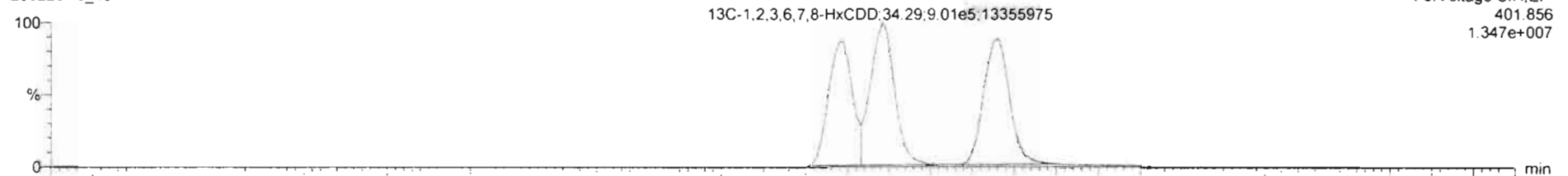


200223R3_15

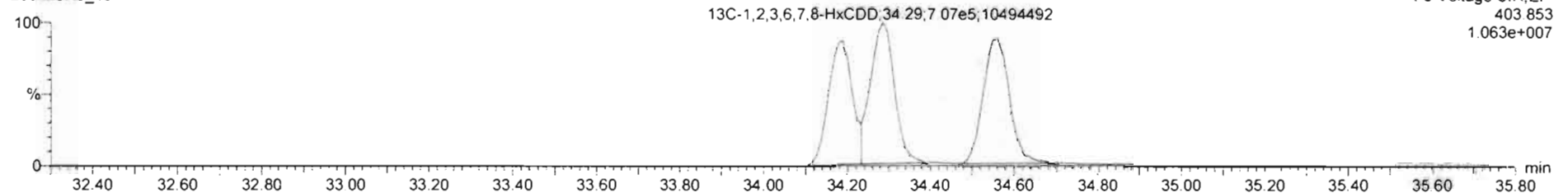


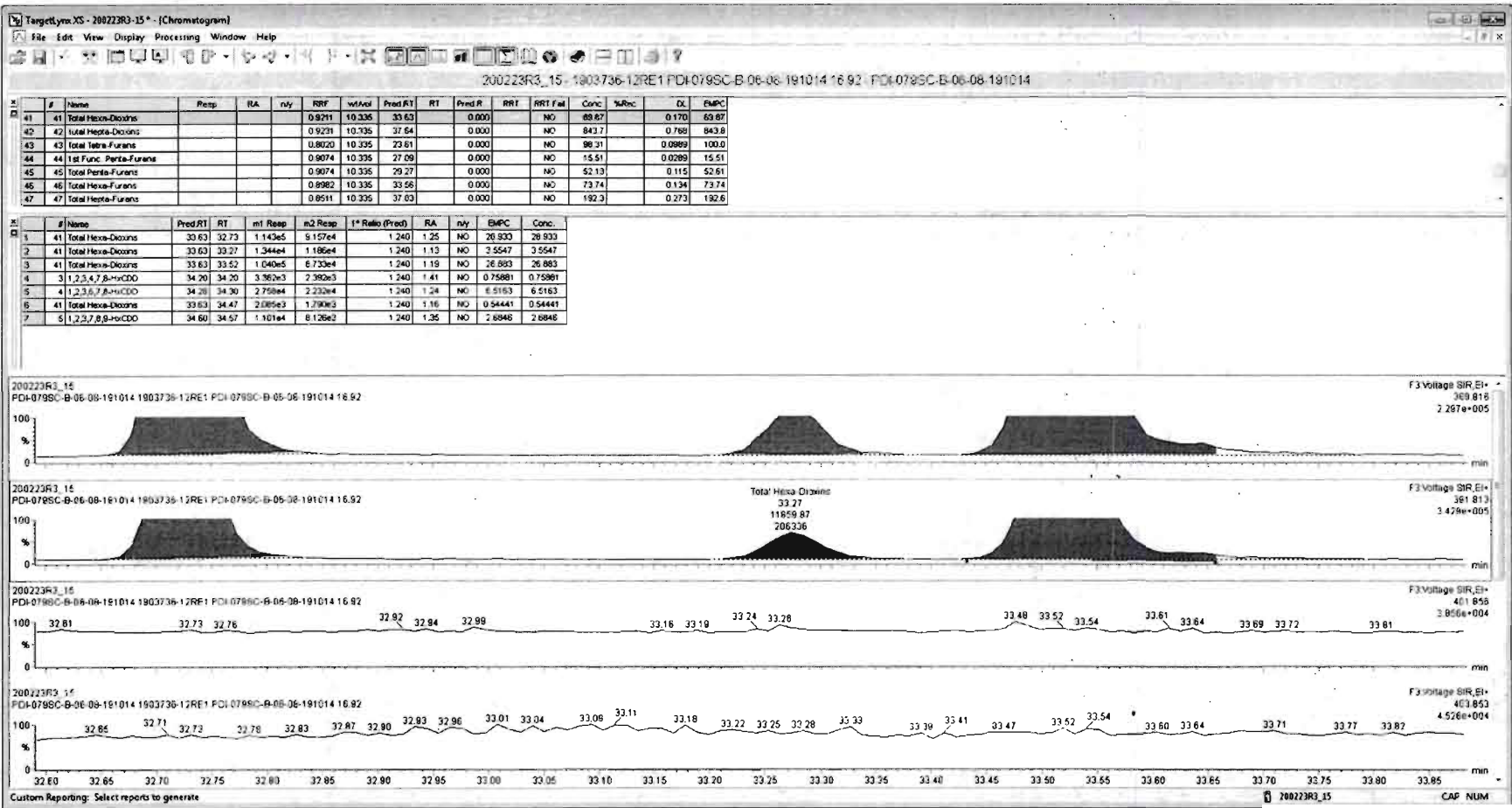
13C-1,2,3,4,7,8-HxCDD

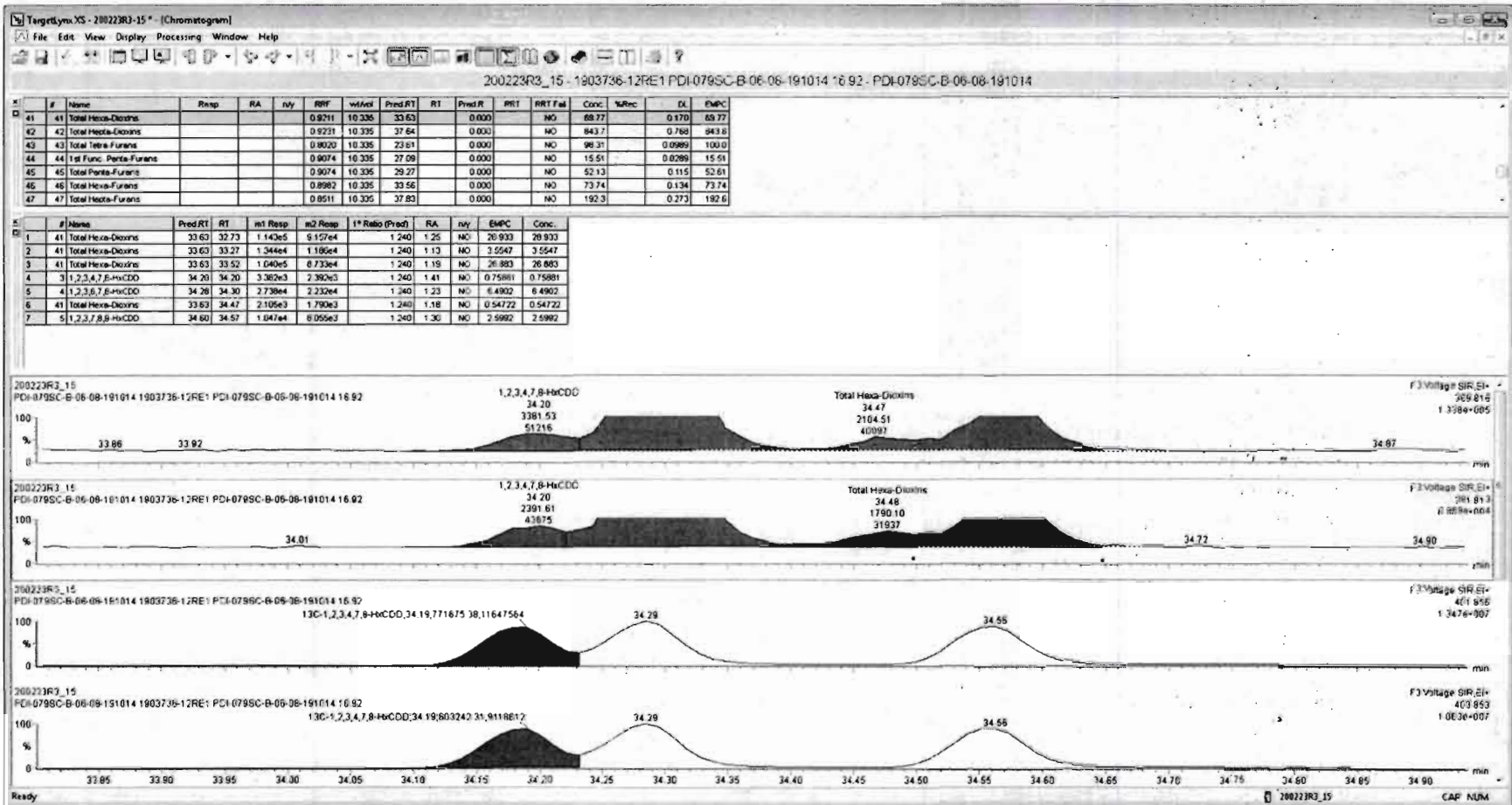
200223R3_15



200223R3_15







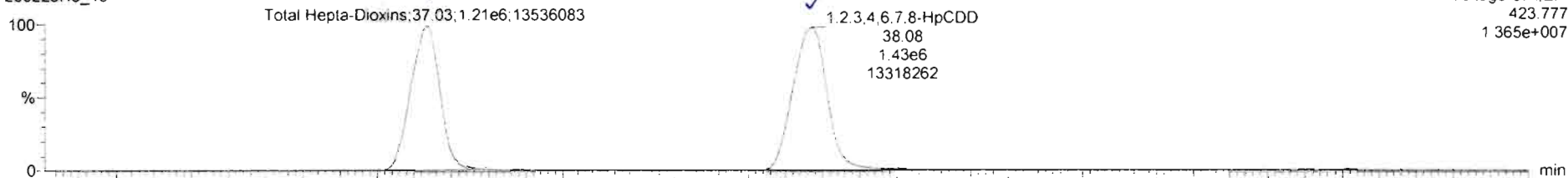
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

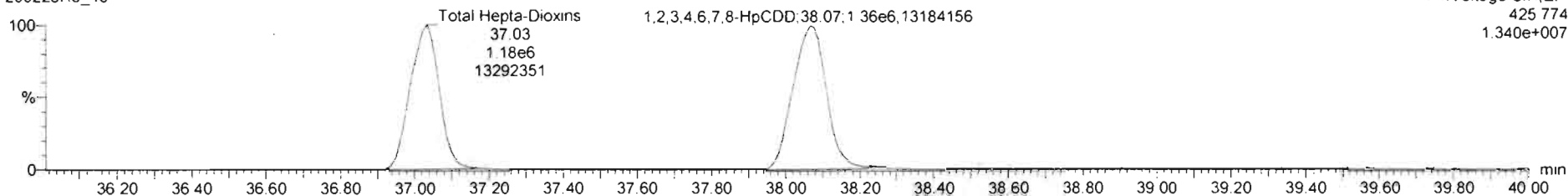
Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

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

200223R3_15

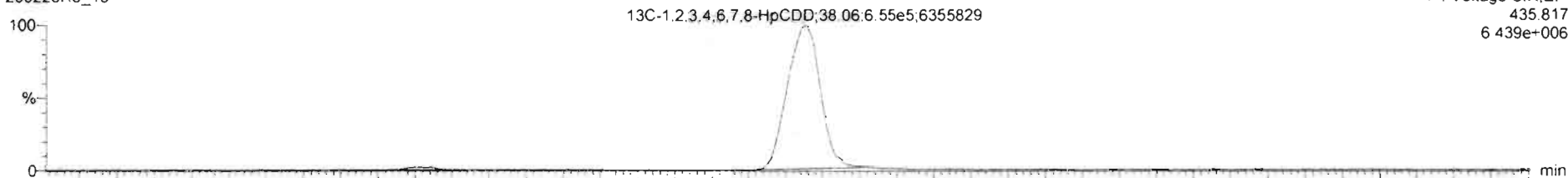


200223R3_15

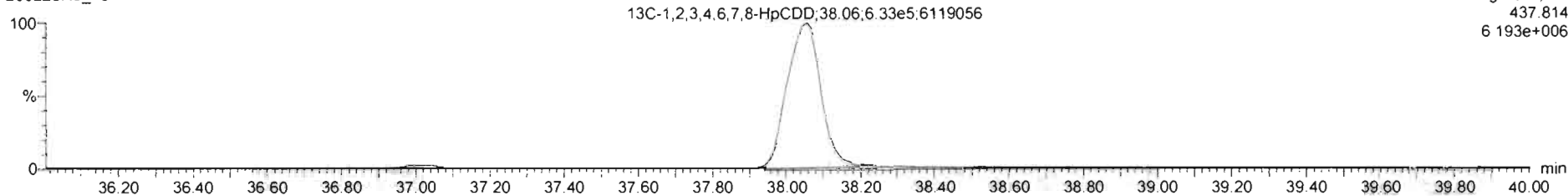


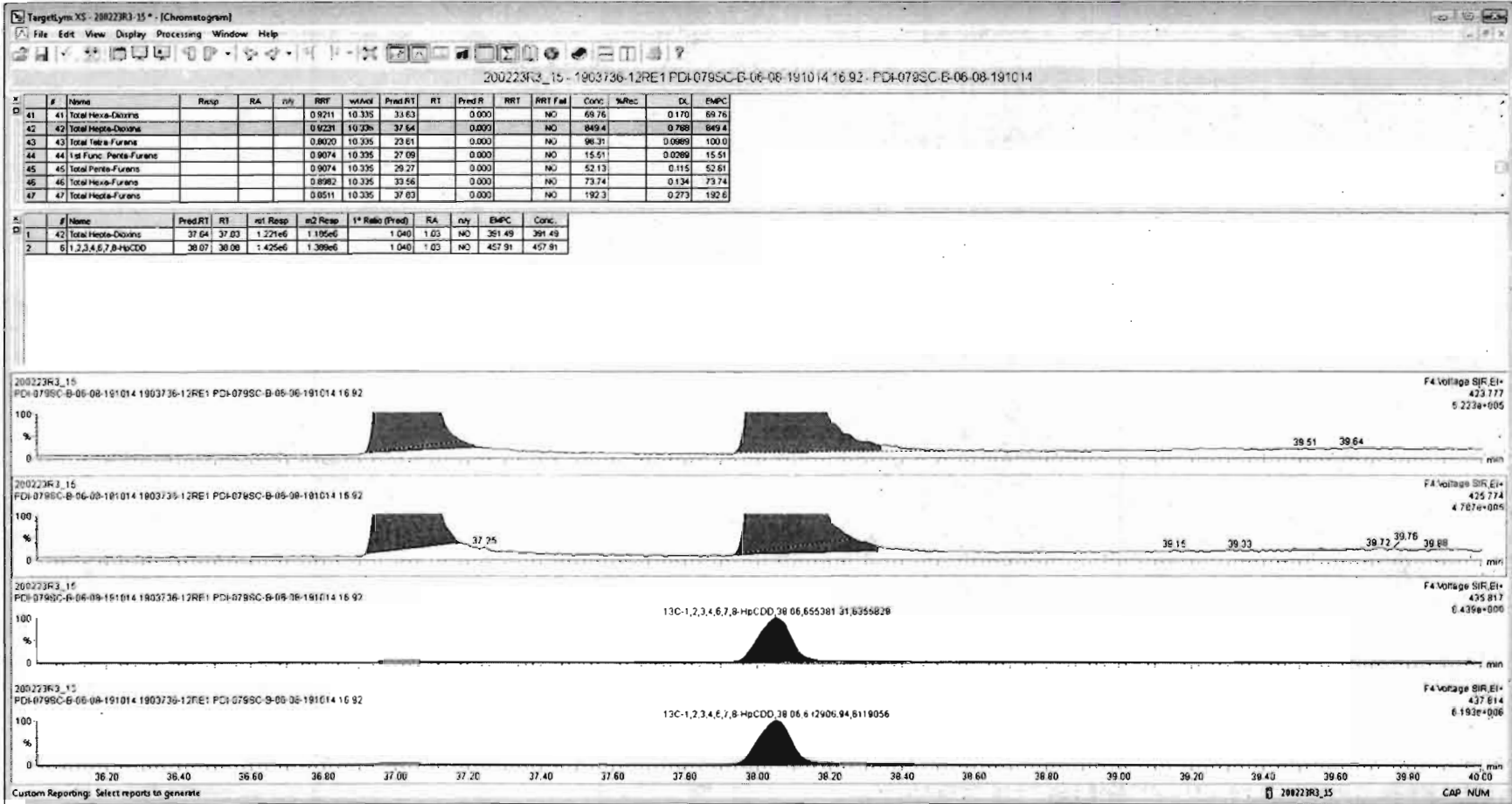
13C-1,2,3,4,6,7,8-HpCDD

200223R3_15



200223R3_15



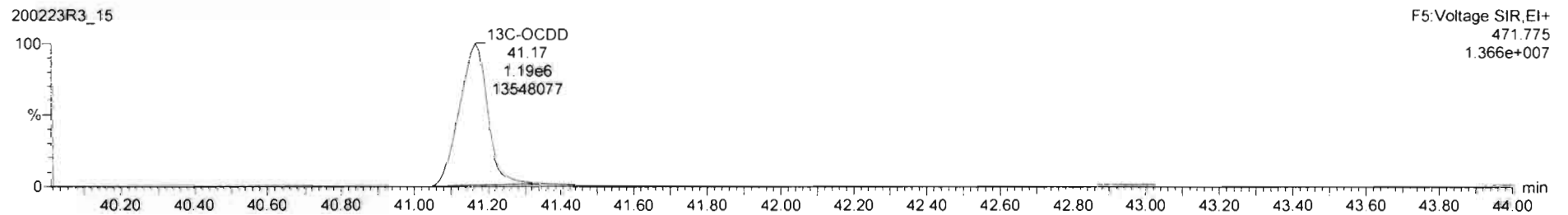
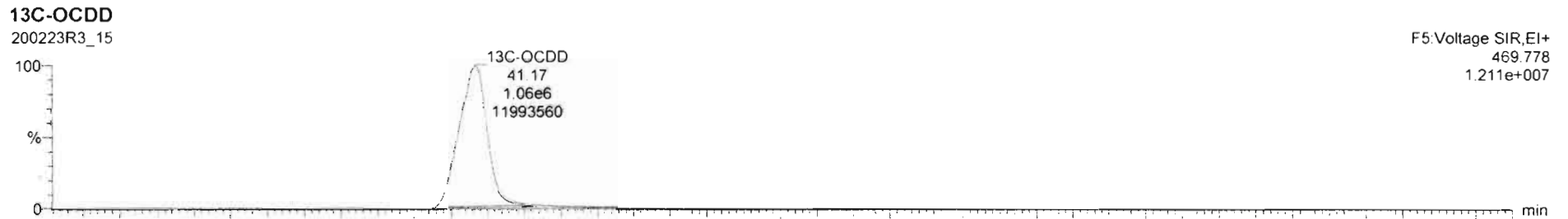
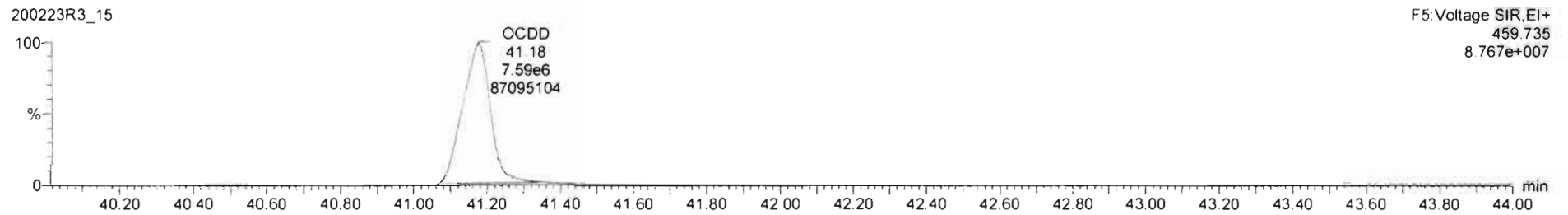
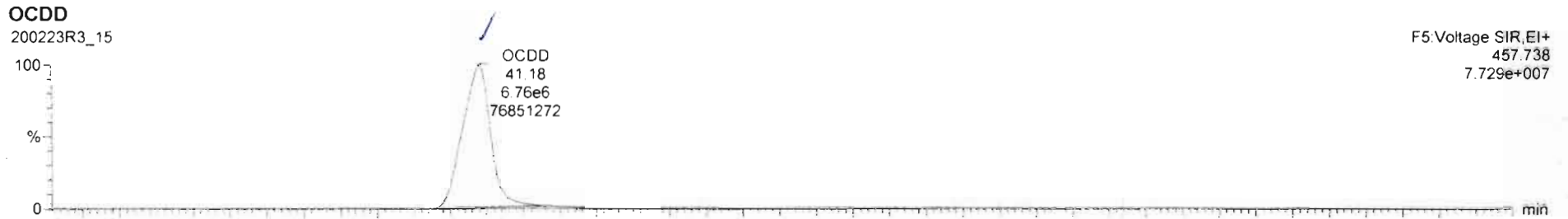


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014



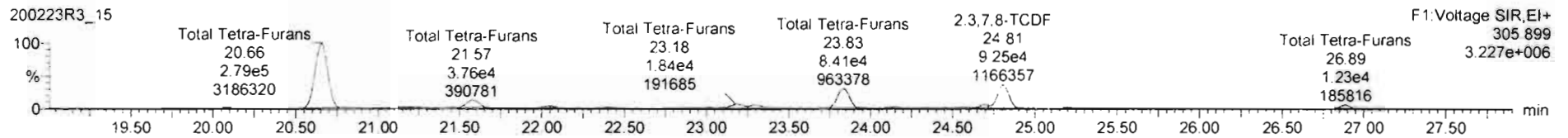
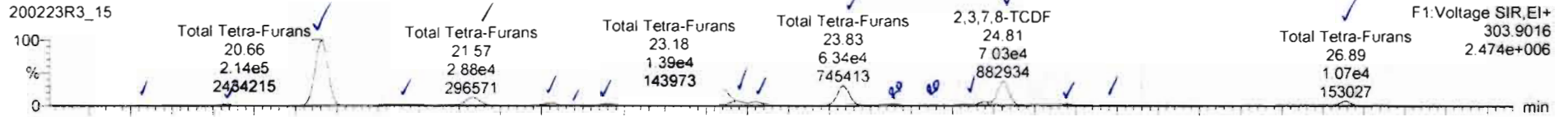
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

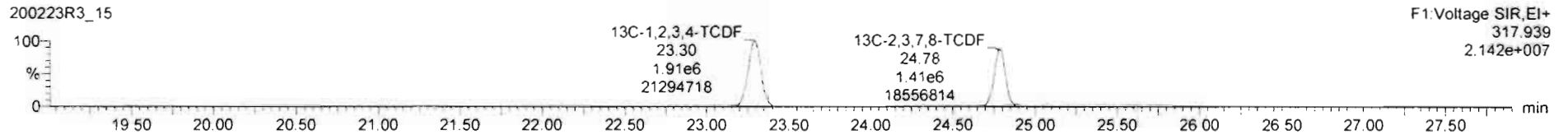
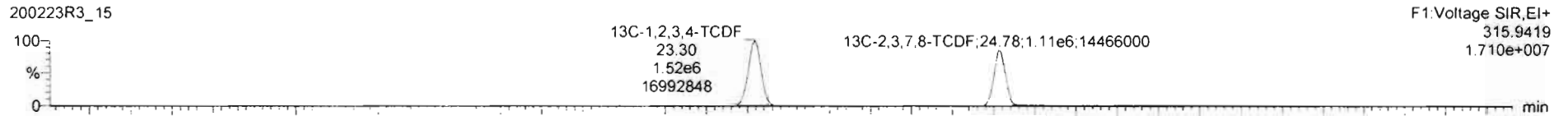
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

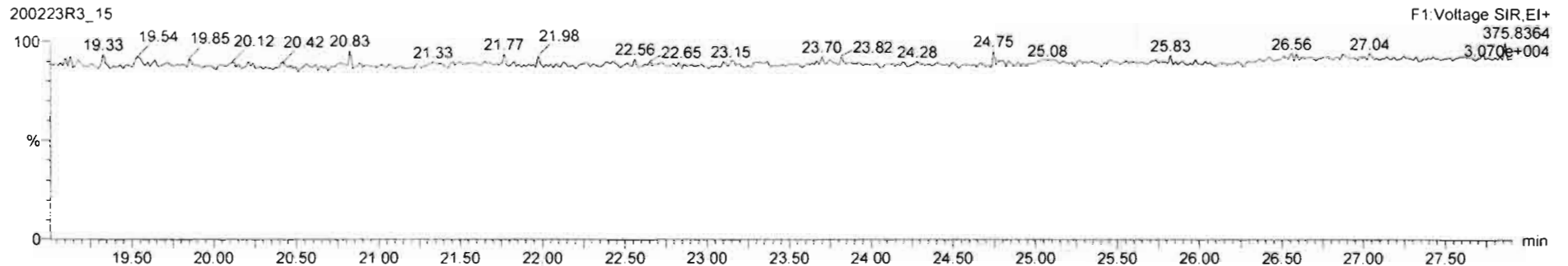
2,3,7,8-TCDF

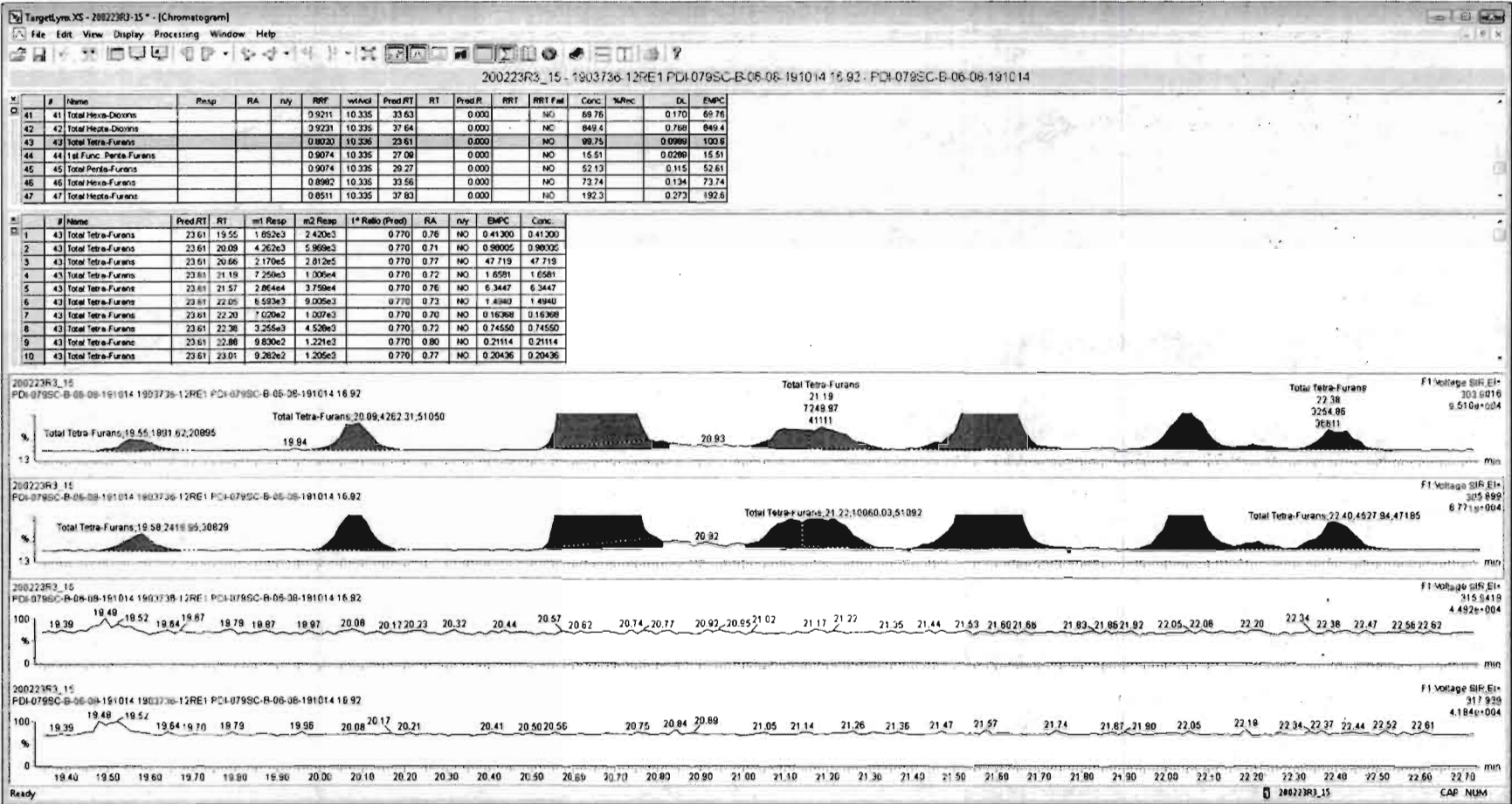


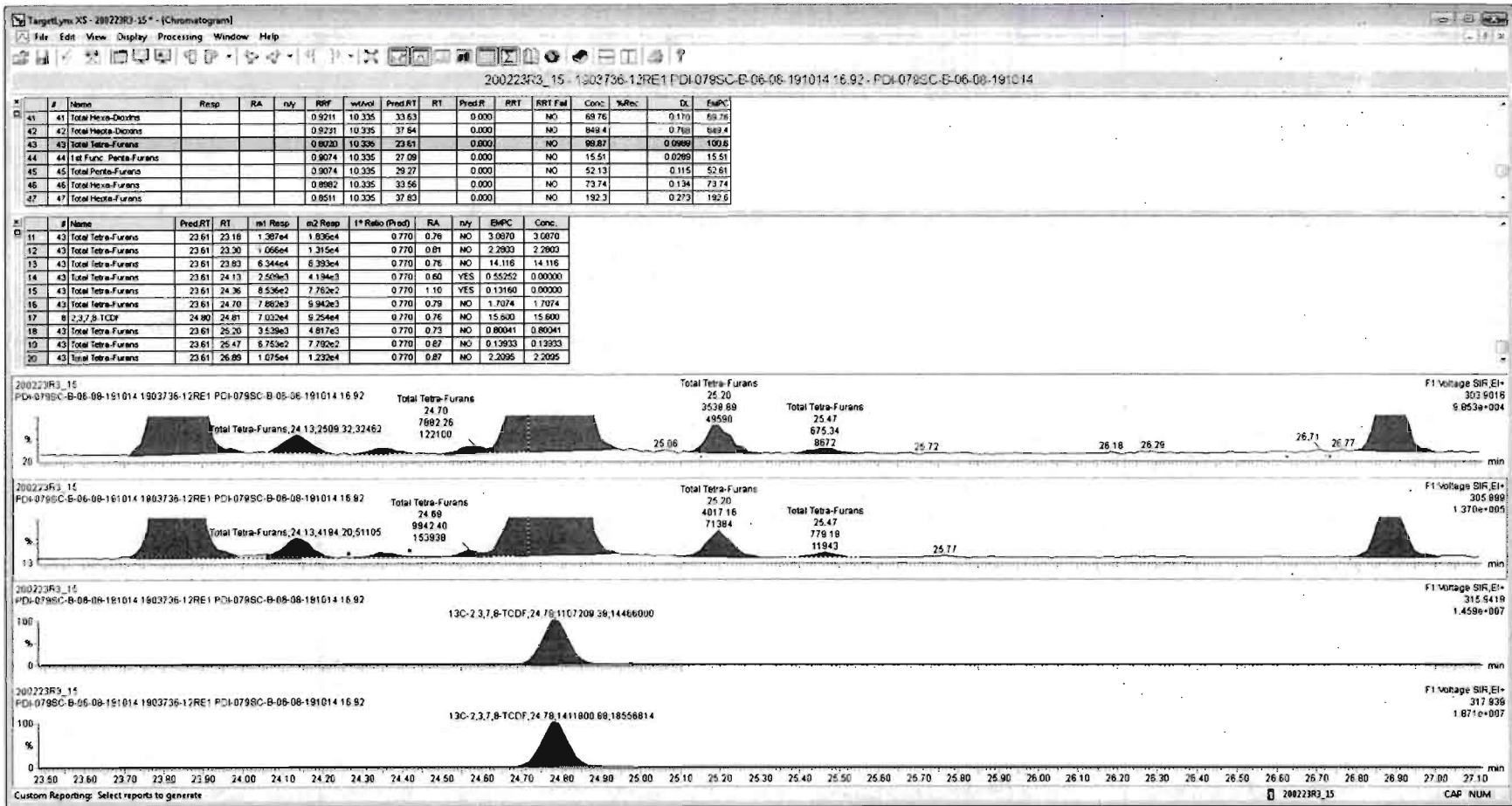
13C-2,3,7,8-TCDF



DPE1







Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

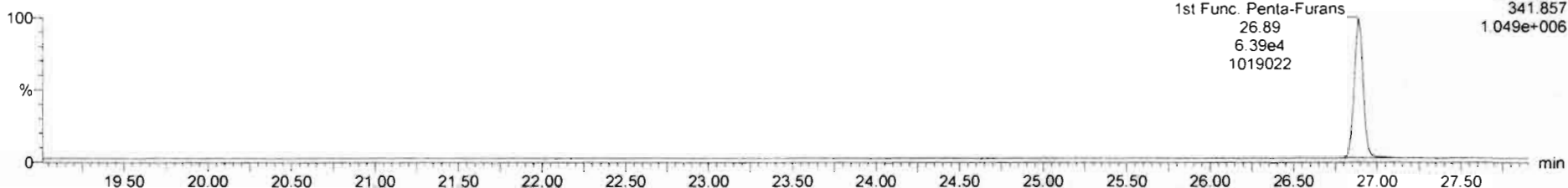
Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

1st Func. Penta-Furans

200223R3_15

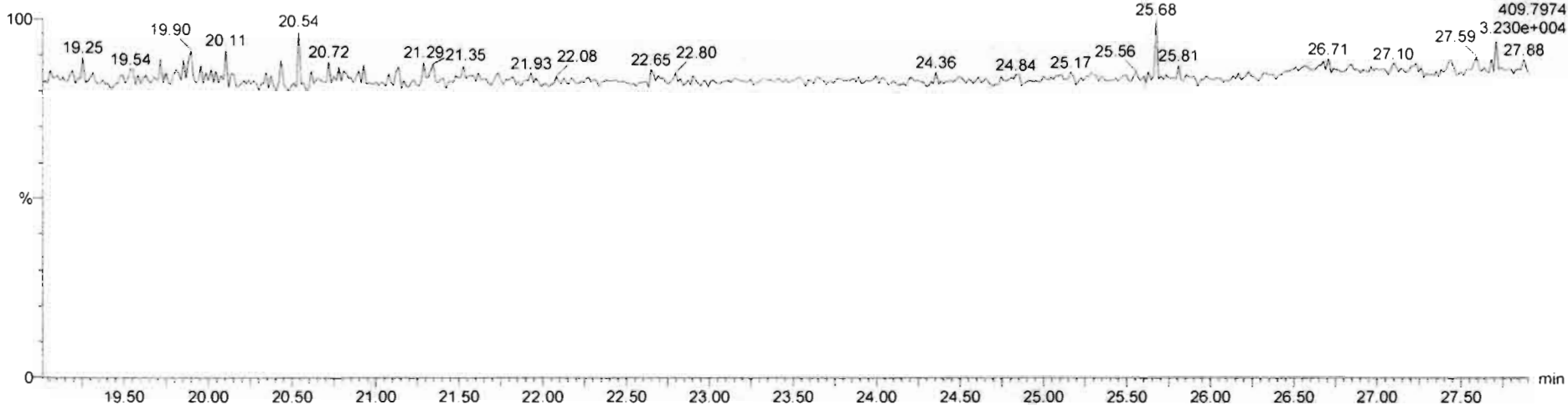


200223R3_15



DPE6

200223R3_15



Dataset: Untitled

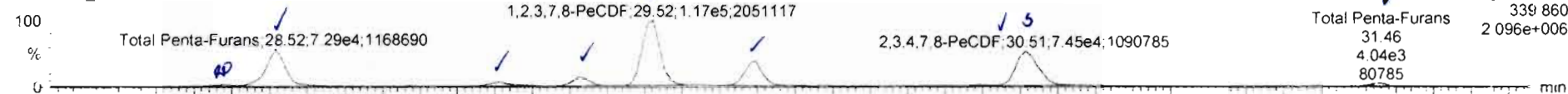
Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

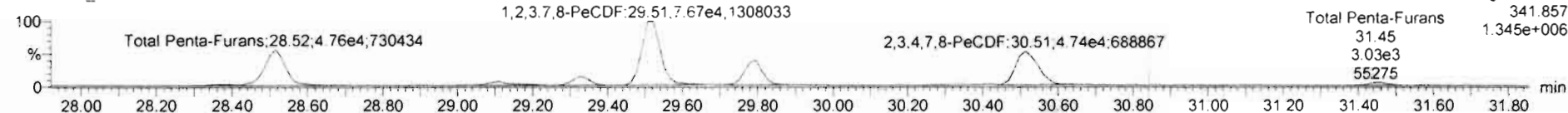
Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

1,2,3,7,8-PeCDF

200223R3_15

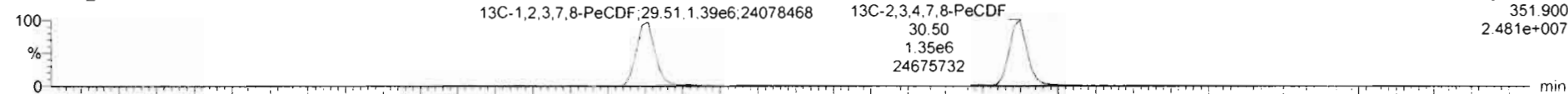


200223R3_15

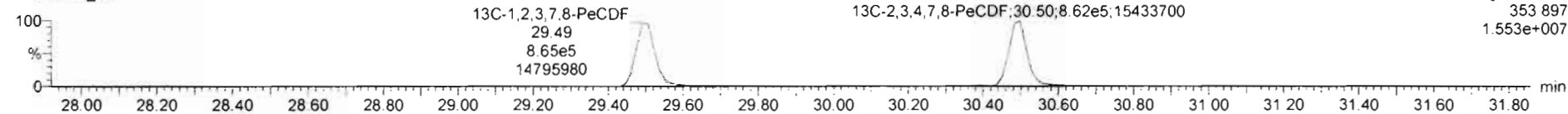


13C-1,2,3,7,8-PeCDF

200223R3_15

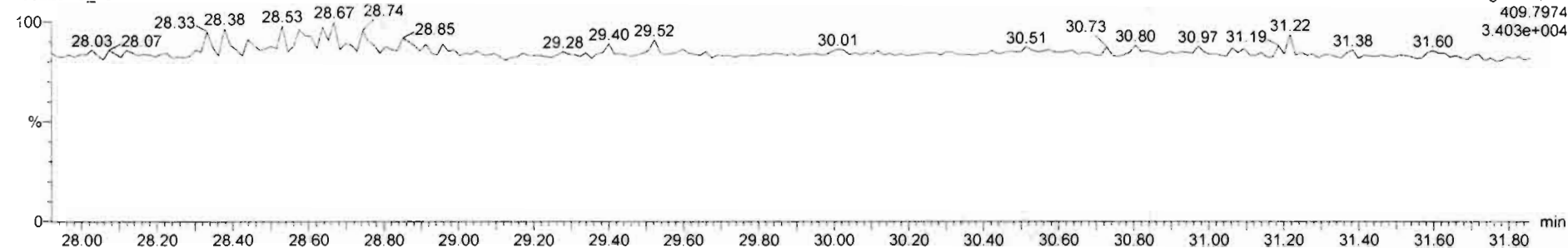


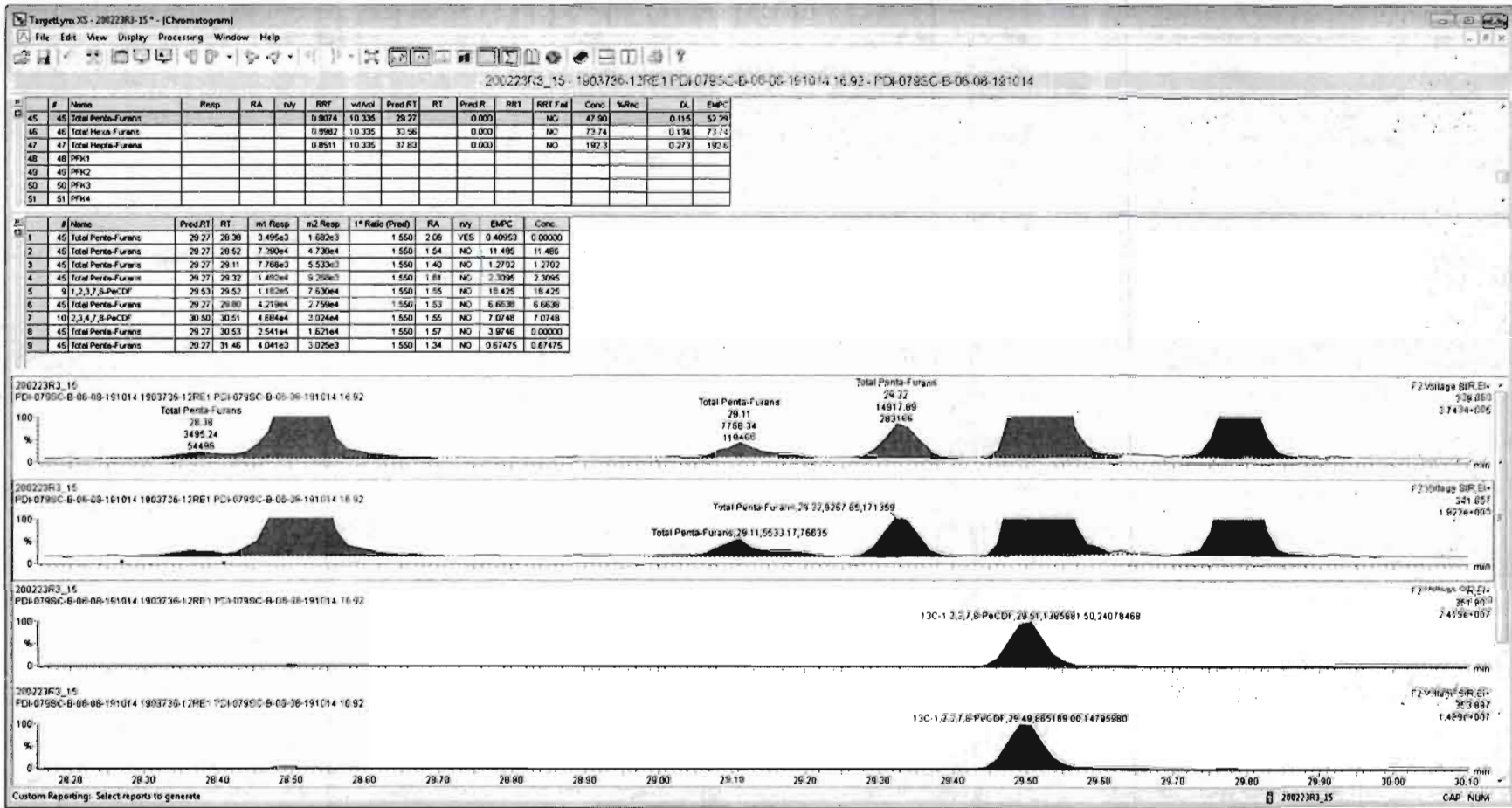
200223R3_15

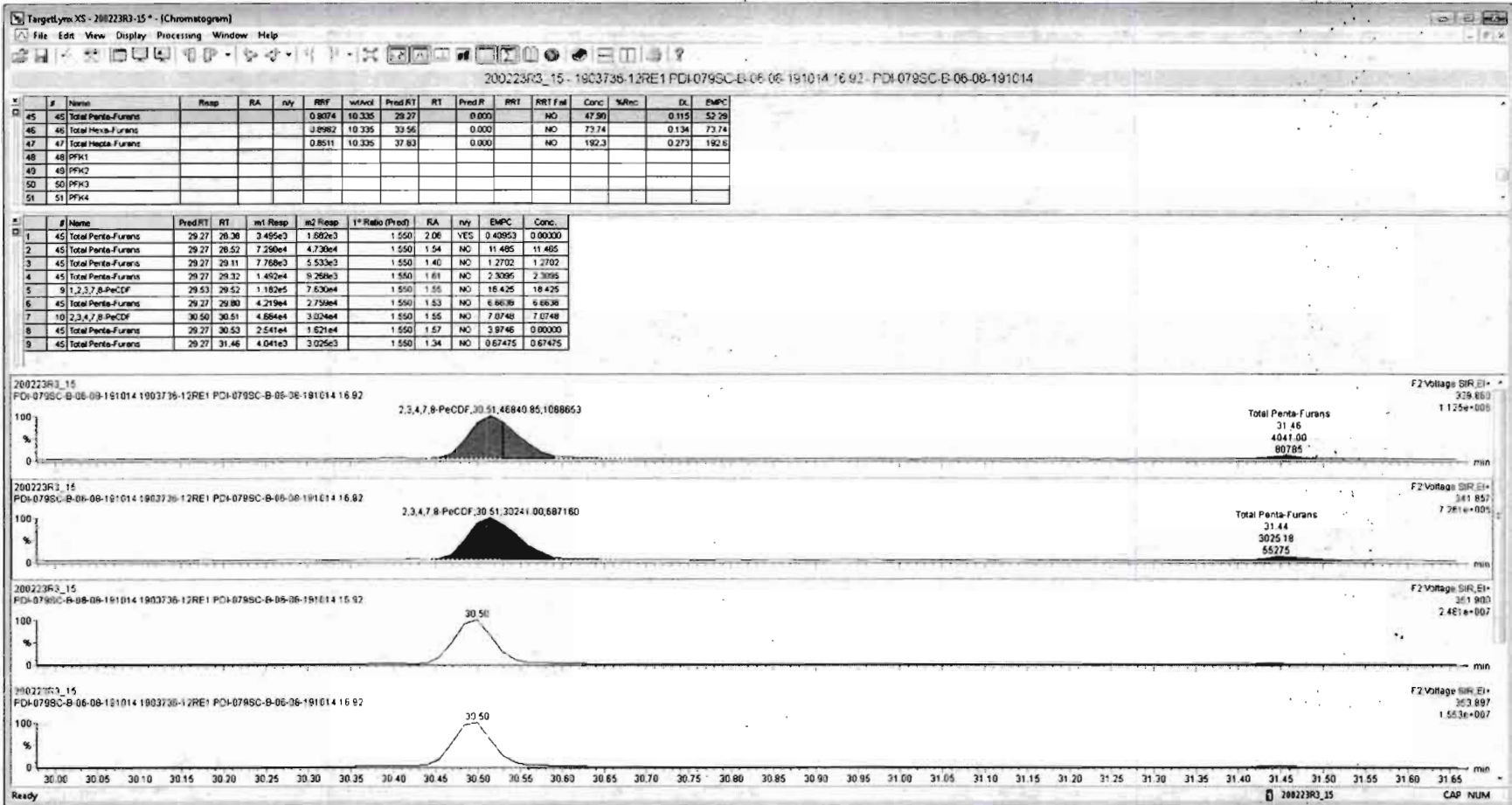


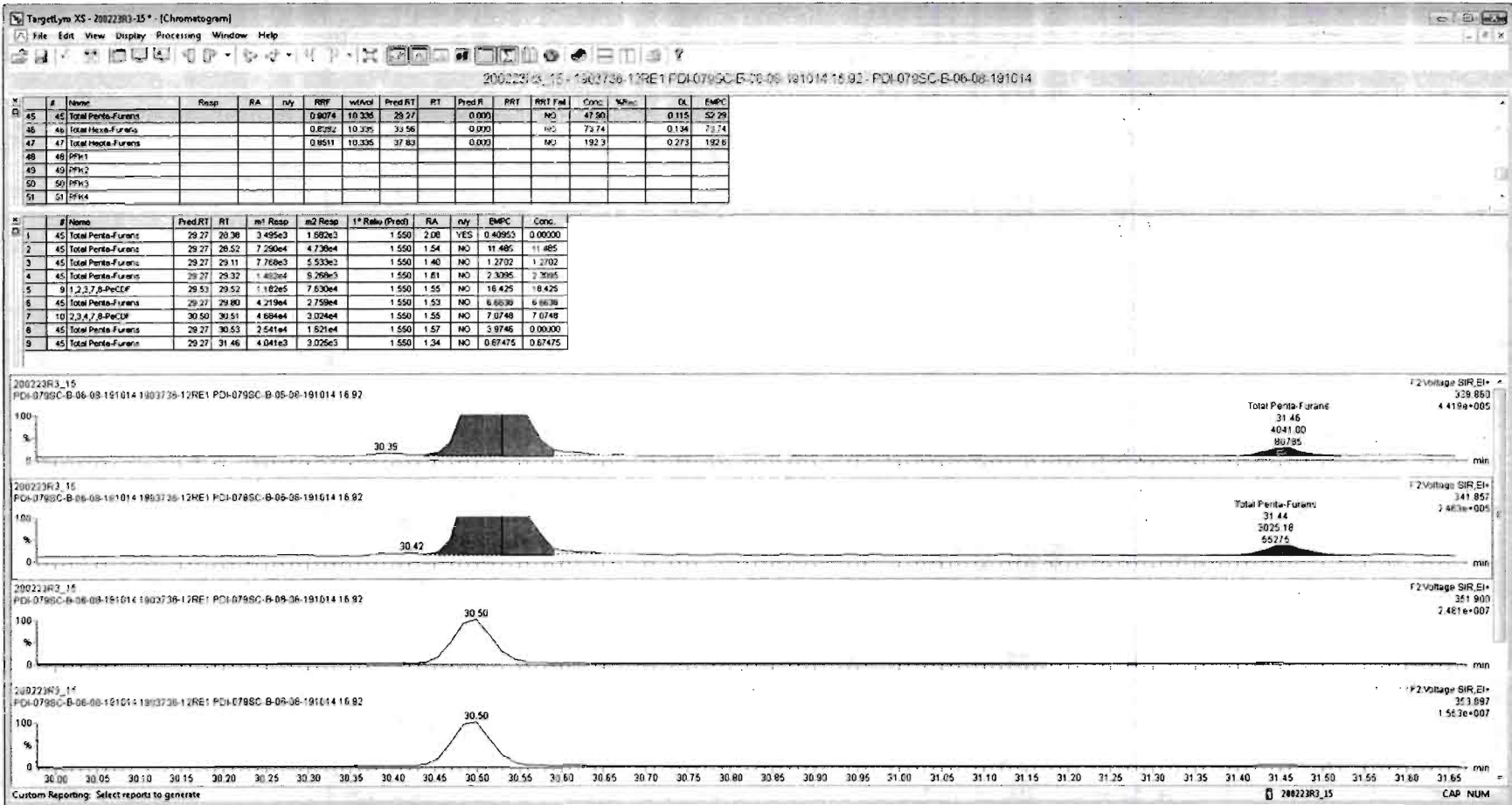
DPE2

200223R3_15









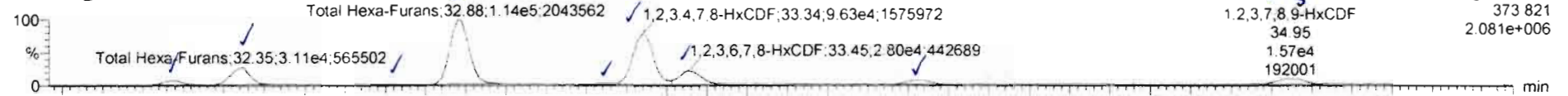
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

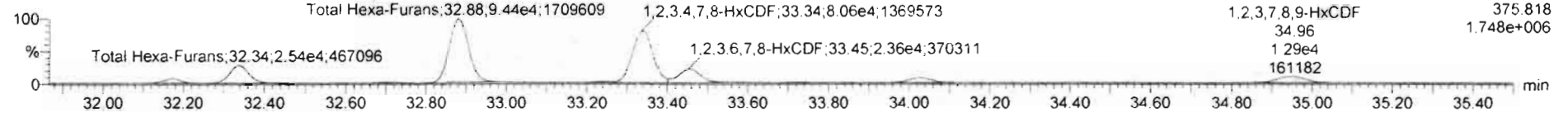
Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

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

200223R3_15

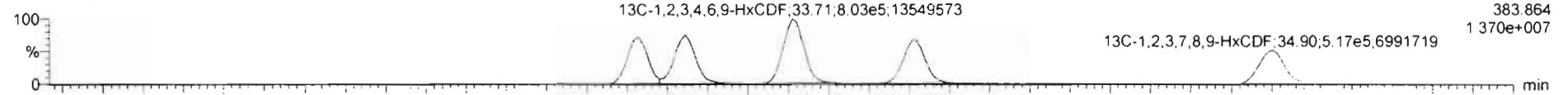


200223R3_15

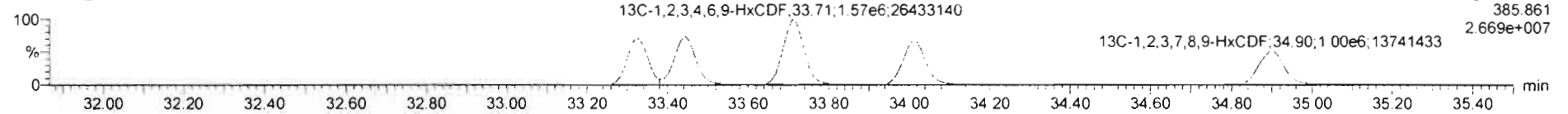


13C-1,2,3,4,7,8-HxCDF

200223R3_15

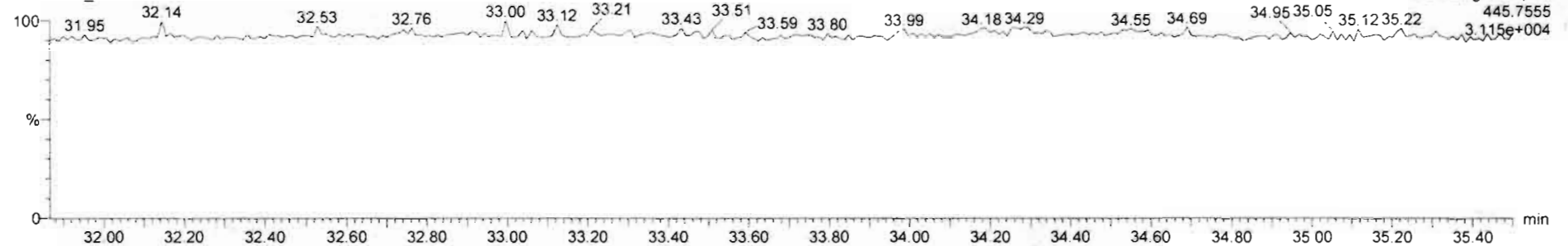


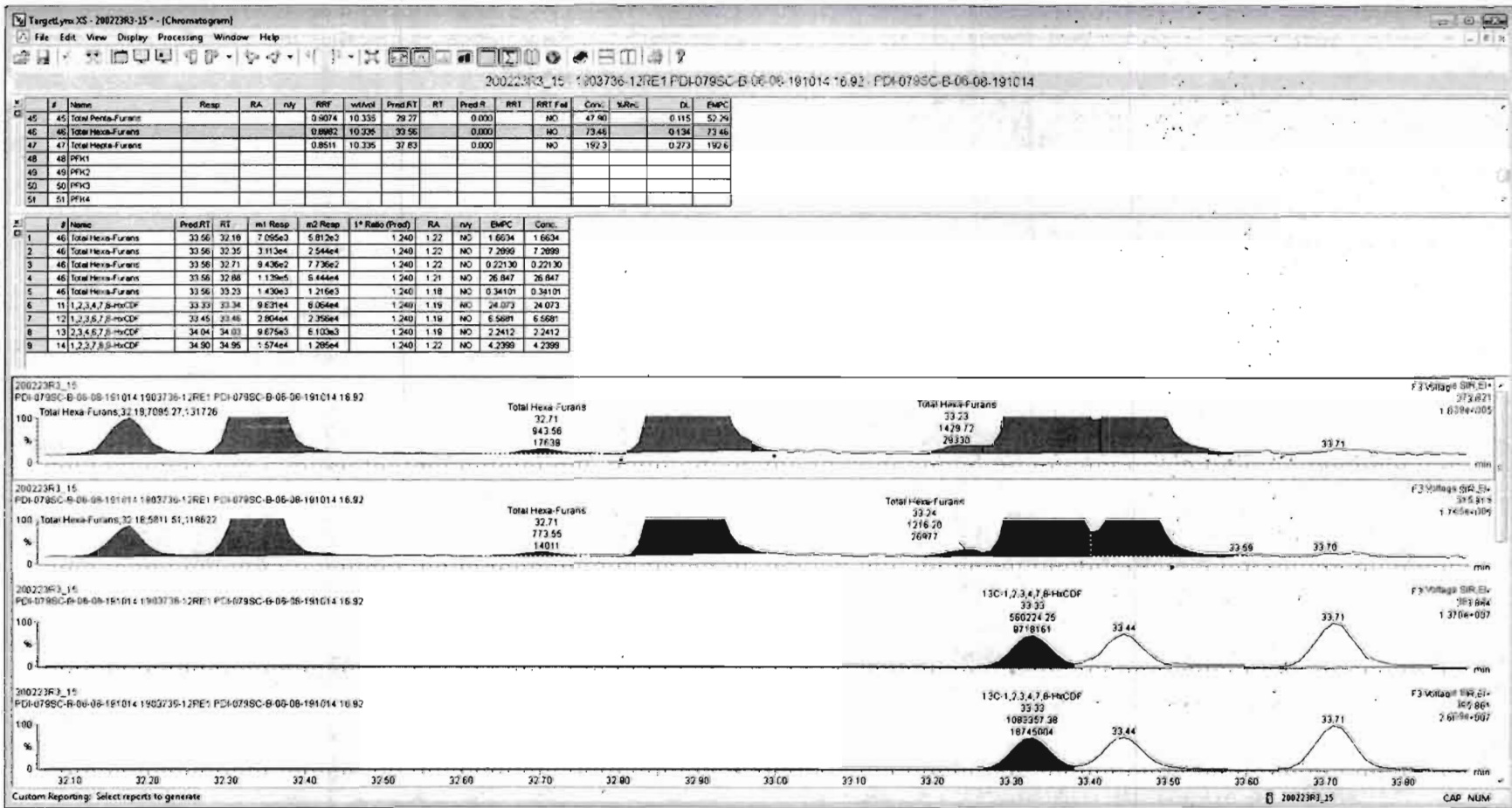
200223R3_15



DPE3

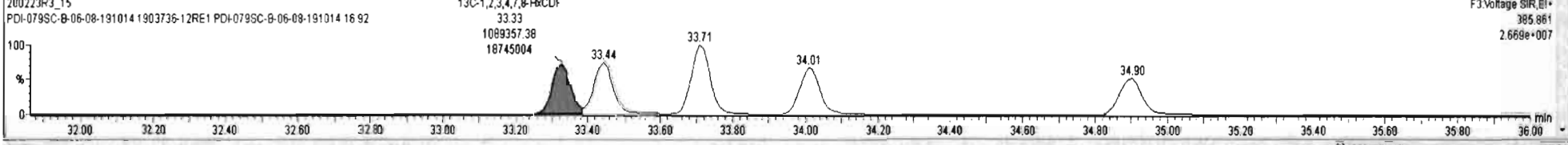
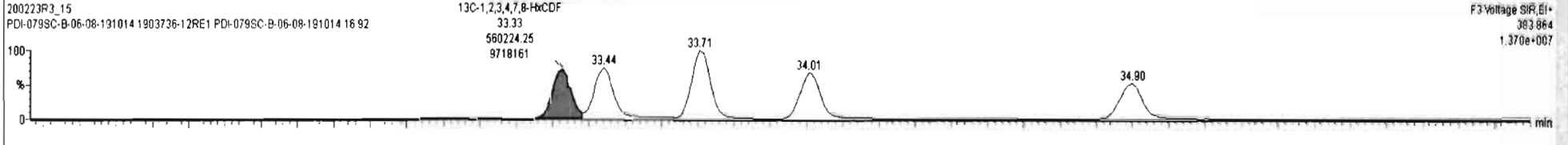
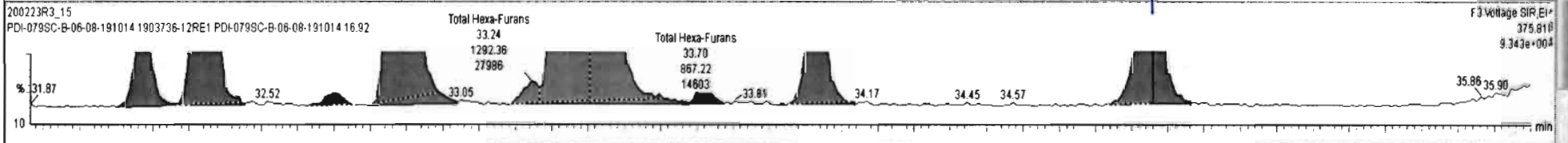
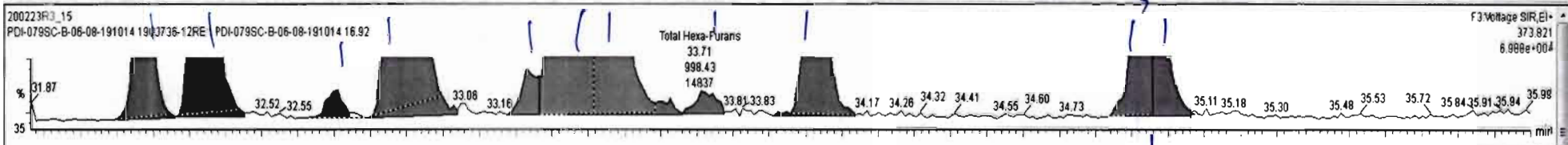
200223R3_15

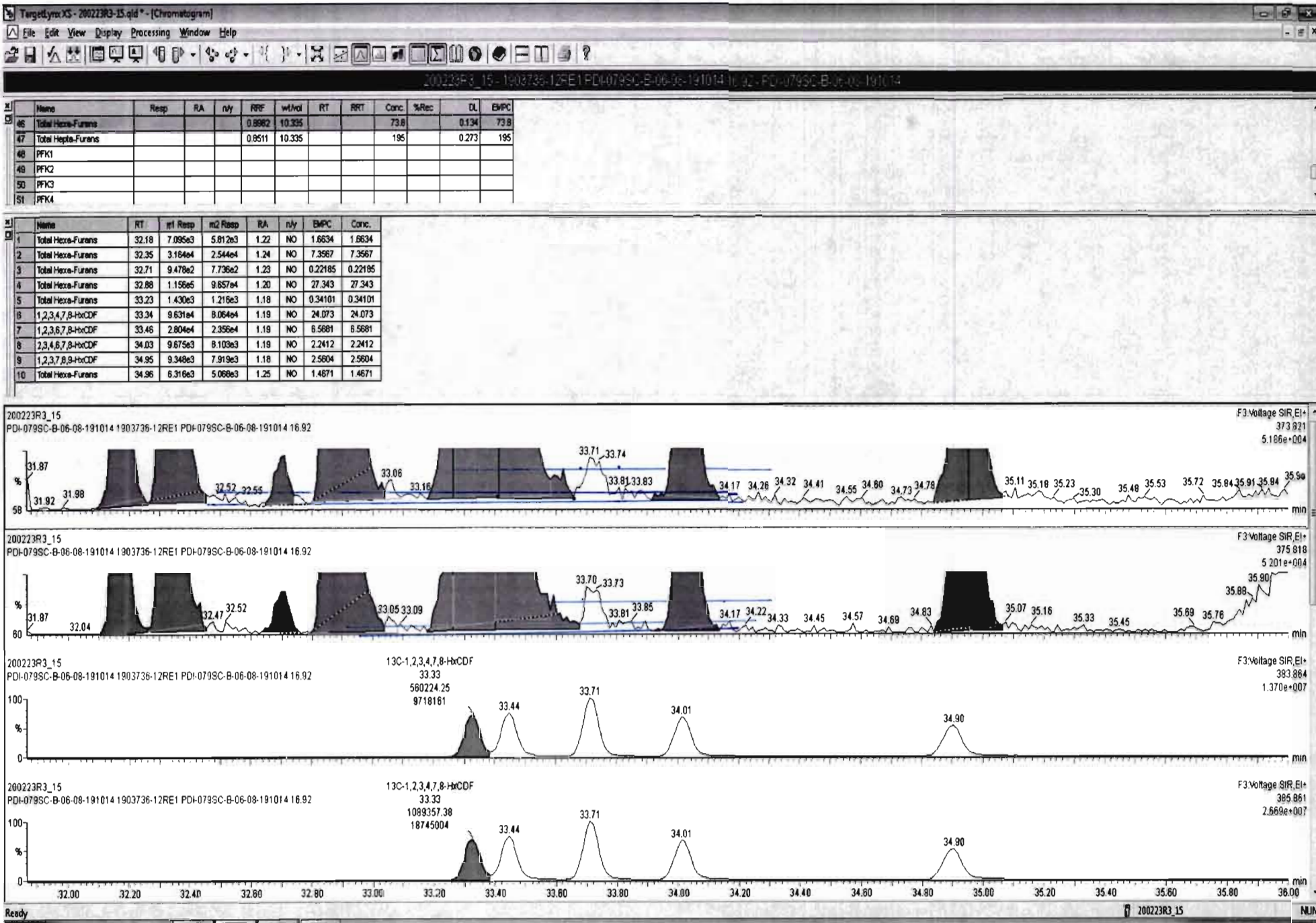


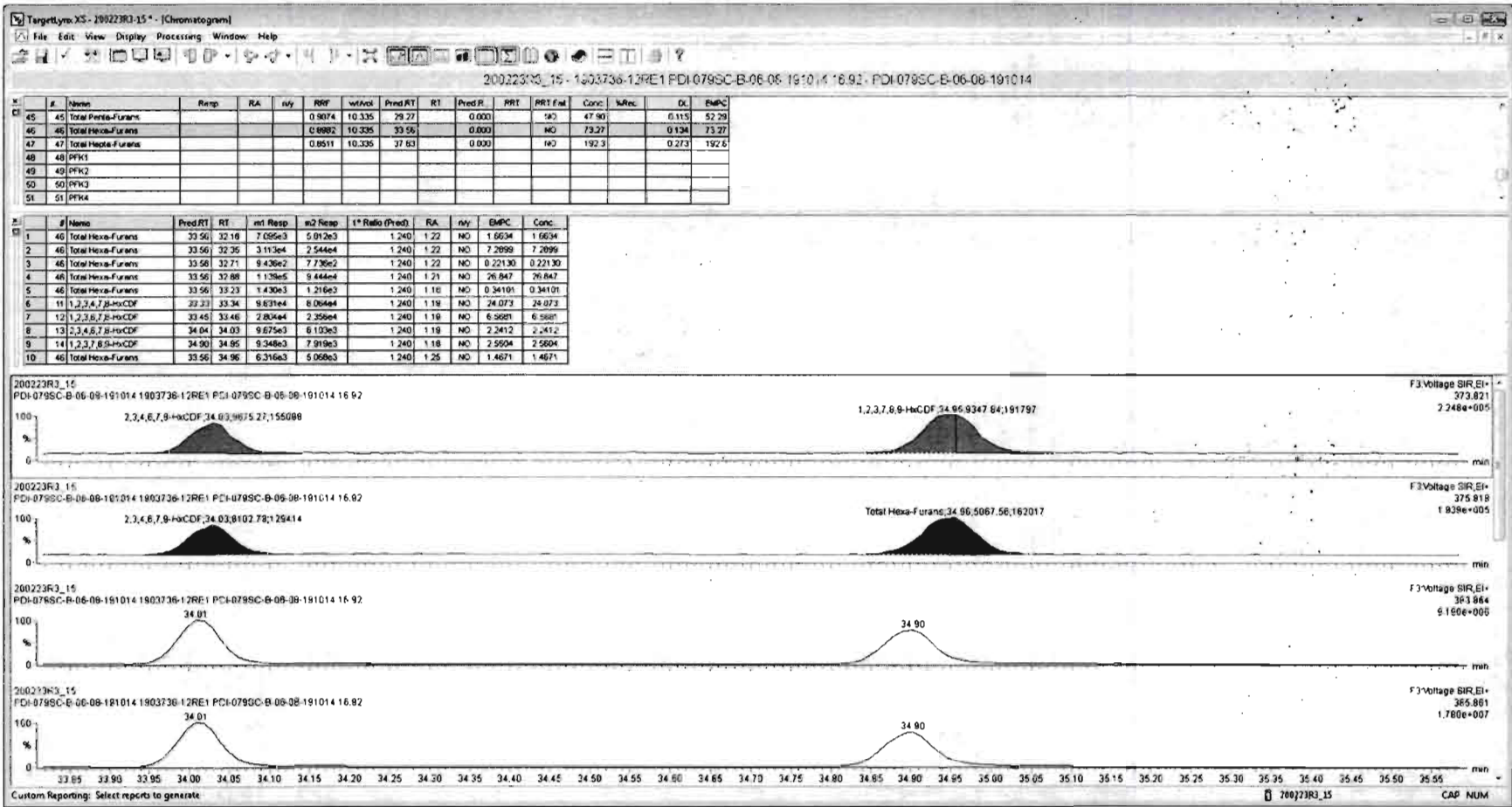


Name	Resp	RA	n/y	RF	w/wd	RT	PRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8982	10.335			74.4	0.134	74.4	
47 Total Hepta-Furans				0.8511	10.335			195	0.273	195	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.18	7.290e3	5.812e3	1.25	NO	1.6873	1.6873
2 Total Hexa-Furans	32.35	3.164e4	2.584e4	1.23	NO	7.3834	7.3834
3 Total Hexa-Furans	32.71	9.506e2	7.736e2	1.23	NO	0.22221	0.22221
4 Total Hexa-Furans	32.88	1.154e5	9.622e4	1.20	NO	27.280	27.280
5 Total Hexa-Furans	33.23	1.430e3	1.292e3	1.11	NO	0.35083	0.35083
6 1,2,3,4,7,8-HxCDF	33.34	9.635e4	8.090e4	1.19	NO	24.114	24.114
7 1,2,3,6,7,8-HxCDF	33.45	2.865e4	2.480e4	1.16	NO	6.7784	6.7784
8 Total Hexa-Furans	33.71	9.984e2	8.672e2	1.15	NO	0.24045	0.24045
9 2,3,4,6,7,8-HxCDF	34.03	9.949e3	8.320e3	1.20	NO	2.3030	2.3030
10 1,2,3,7,8,9-HxCDF	34.95	9.426e3	7.919e3	1.19	NO	2.5721	2.5721
11 Total Hexa-Furans	34.95	6.458e3	5.172e3	1.25	NO	1.4988	1.4988







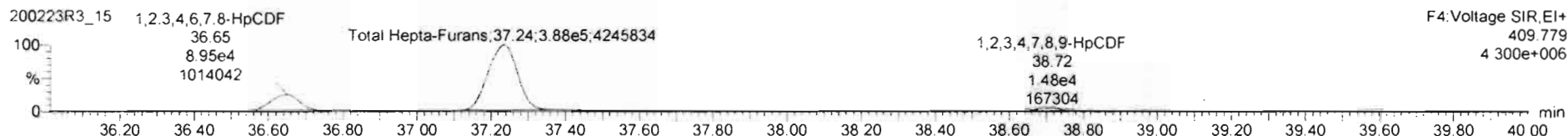
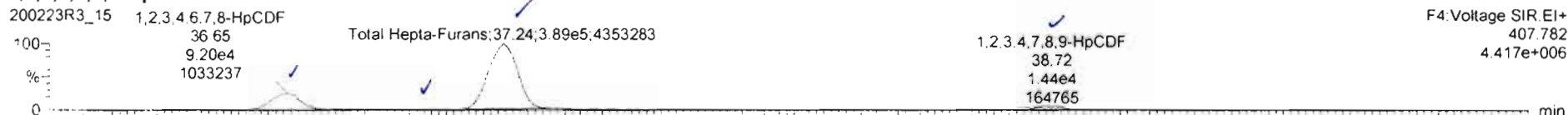
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

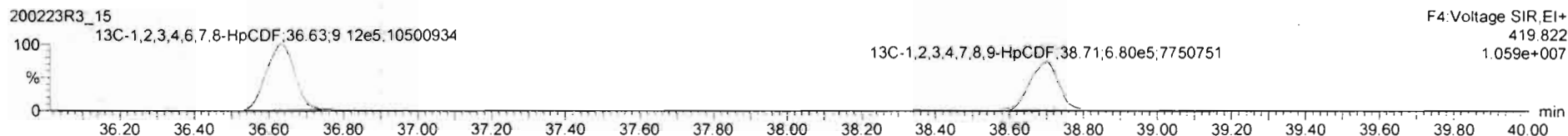
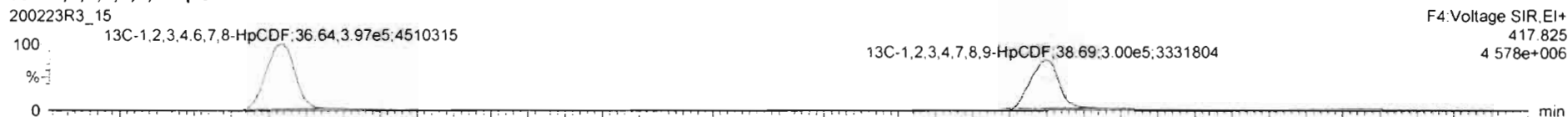
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

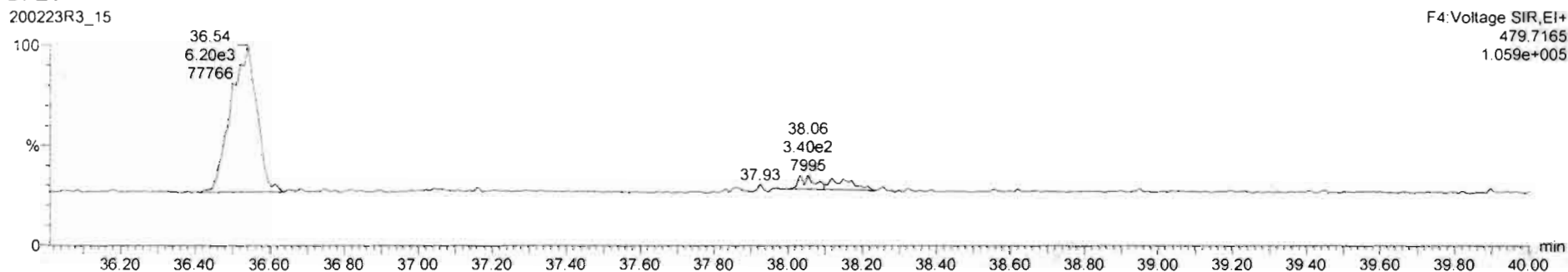
1,2,3,4,6,7,8-HpCDF

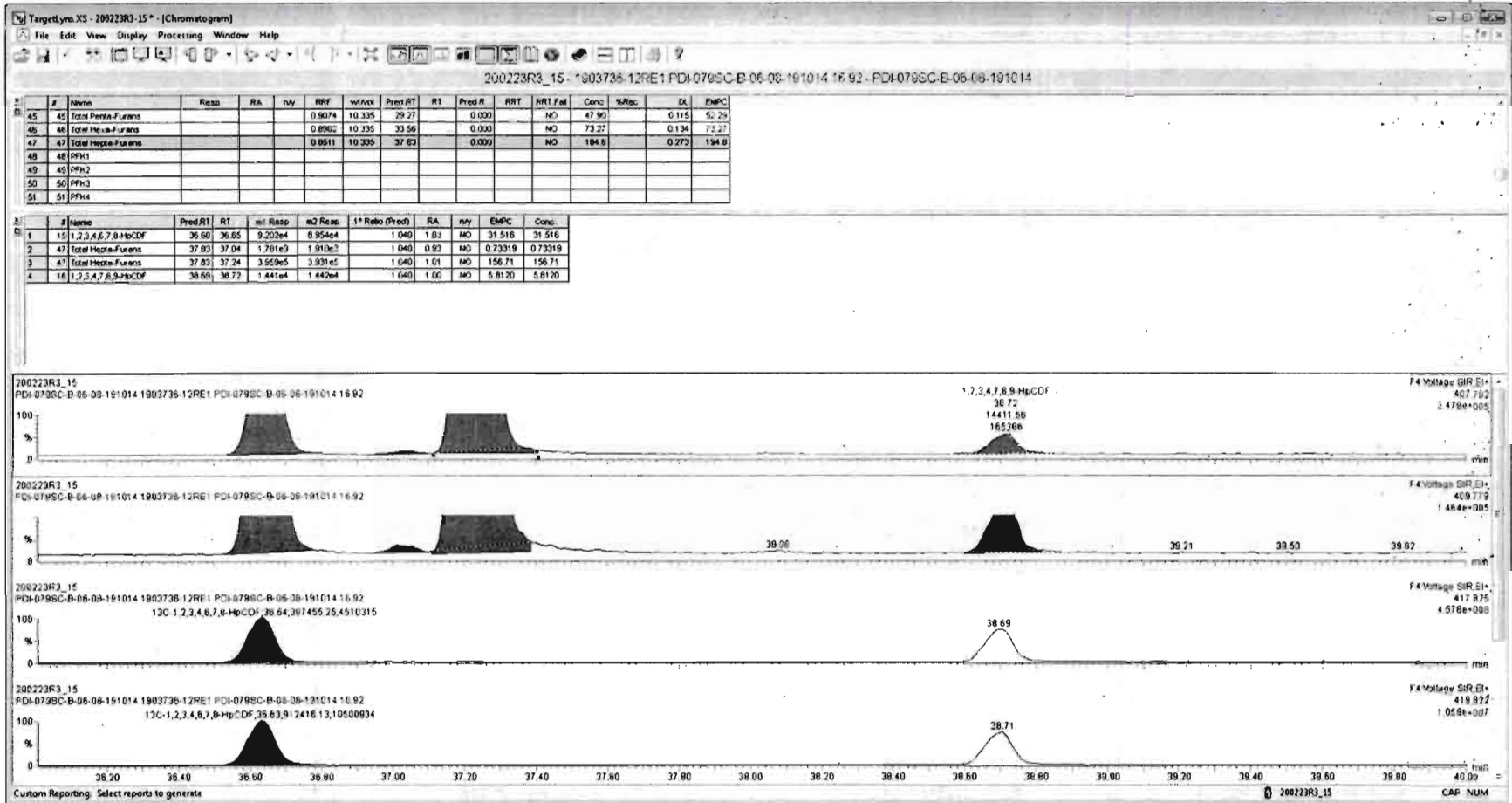


13C-1,2,3,4,6,7,8-HpCDF



DPE4



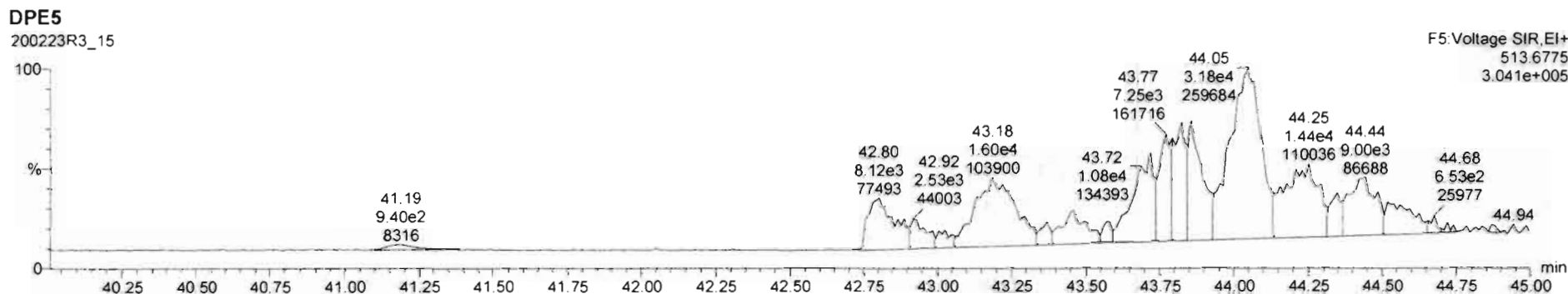
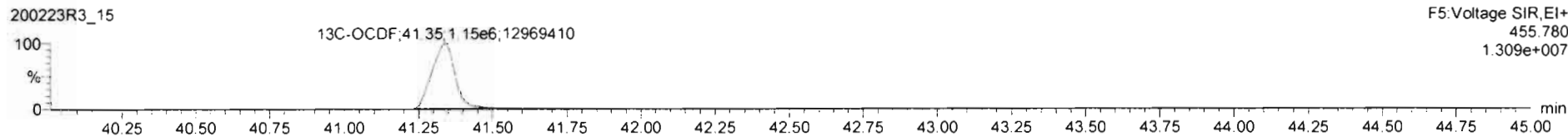
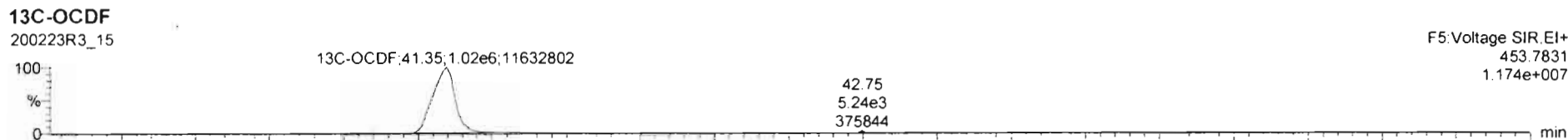
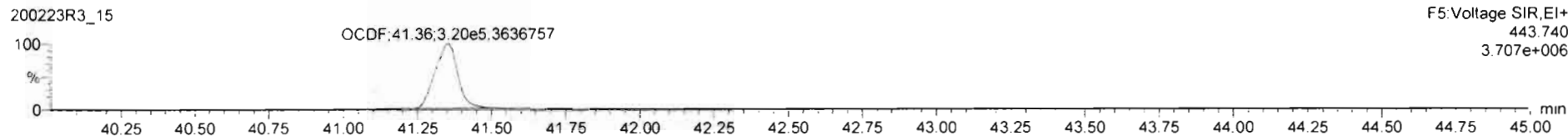
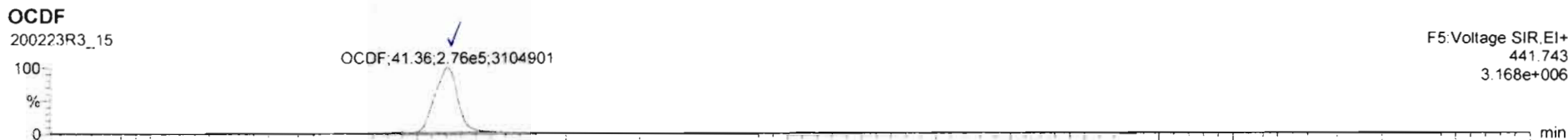


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time

Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

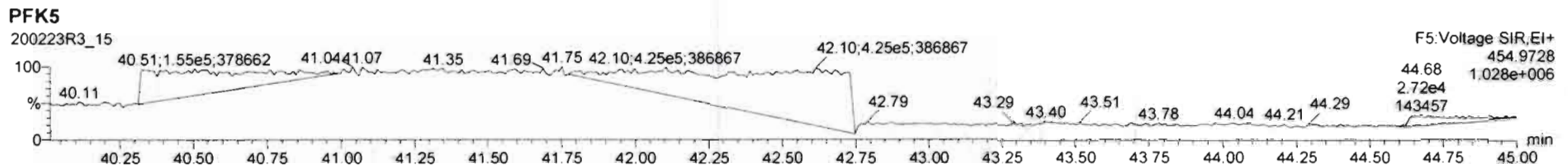
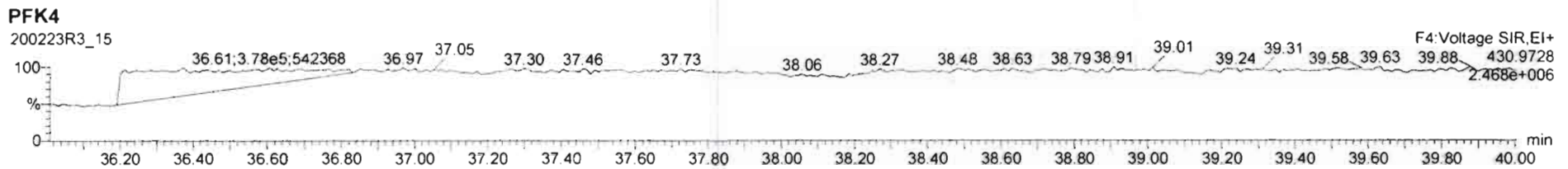
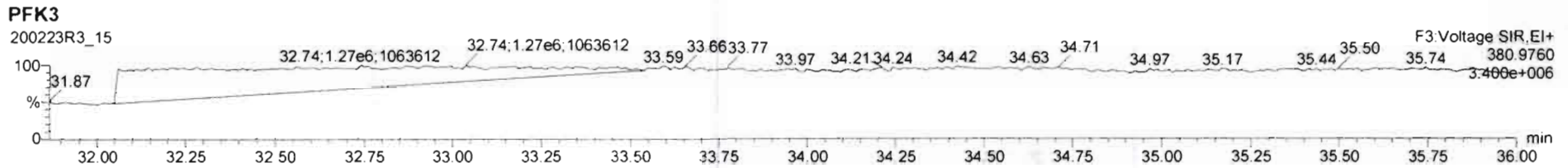
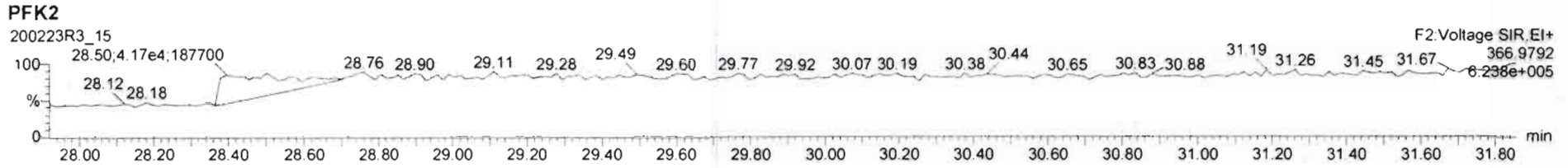
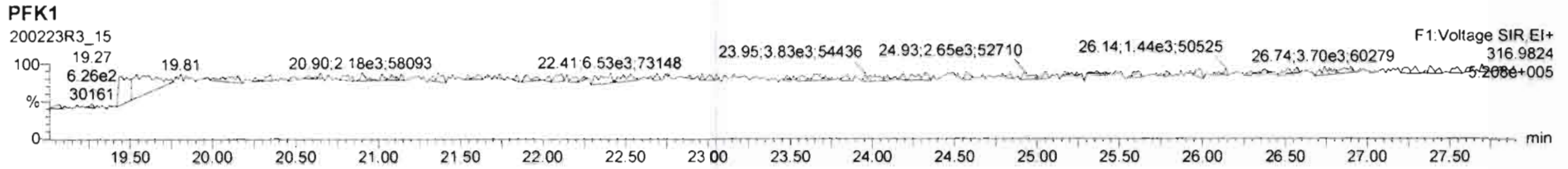
Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014



Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:37:42 Pacific Standard Time
Printed: Monday, February 24, 2020 15:37:57 Pacific Standard Time

Name: 200223R3_15, Date: 24-Feb-2020, Time: 14:39:01, ID: 1903736-12RE1 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014



CONFIRMATION

Dataset: U:\VG12.PRO\Results\200310R3\200310R3-5.qld

Last Altered: Wednesday, March 11, 2020 08:44:17 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 08:44:42 Pacific Daylight Time

GRB 03/11/2020

De 3/11/20

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200310R3_5, Date: 11-Mar-2020, Time: 03:14:05, ID: 1903736-01RE2 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.48e5	0.75	NO	0.821	10.131	16.53	46.746		0.218
2	2 13C-2,3,7,8-TCDF	2.82e6	0.78	NO	1.10	10.131	16.51	186.45	94.4	0.501
3	3 13C-1,2,3,4-TCDF	2.71e6	0.79	NO	1.00	10.131	14.41	197.42	100	0.551

Dataset: Untitled

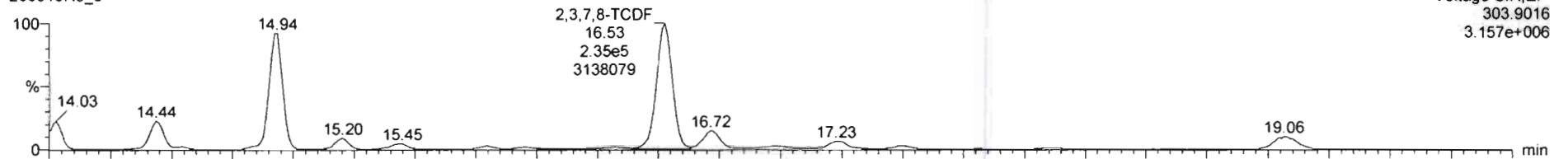
Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

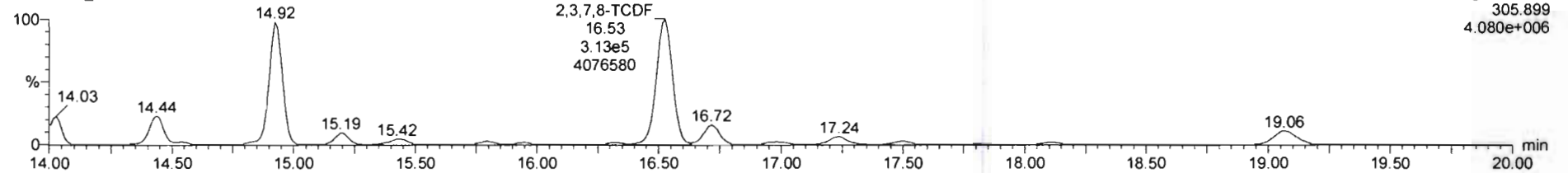
Name: 200310R3_5, Date: 11-Mar-2020, Time: 03:14:05, ID: 1903736-01RE2 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

2,3,7,8-TCDF

200310R3_5



200310R3_5

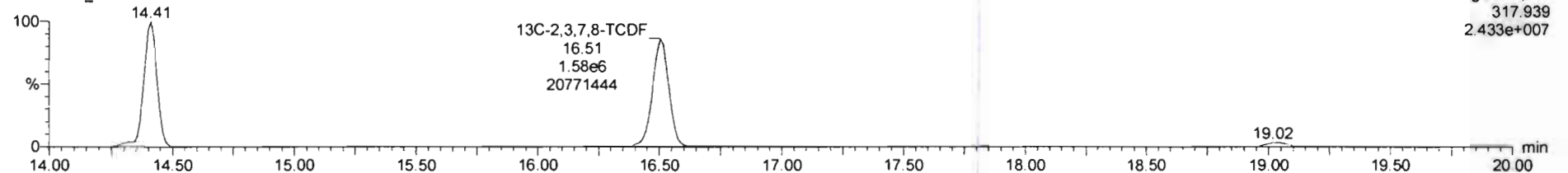


13C-2,3,7,8-TCDF

200310R3_5



200310R3_5



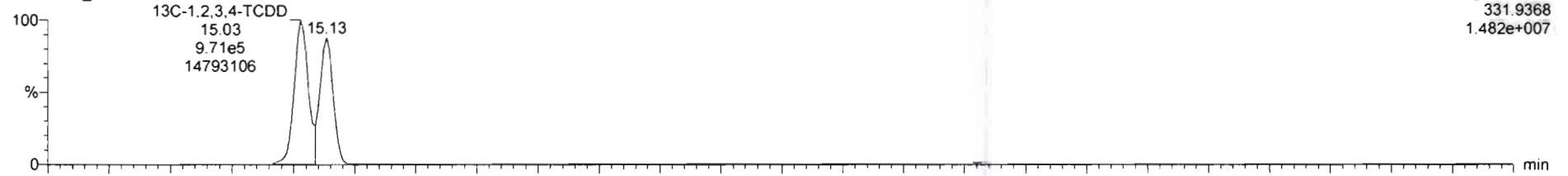
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

Name: 200310R3_5, Date: 11-Mar-2020, Time: 03:14:05, ID: 1903736-01RE2 PDI-026SC-B-00-02-191014 18.32, Description: PDI-026SC-B-00-02-191014

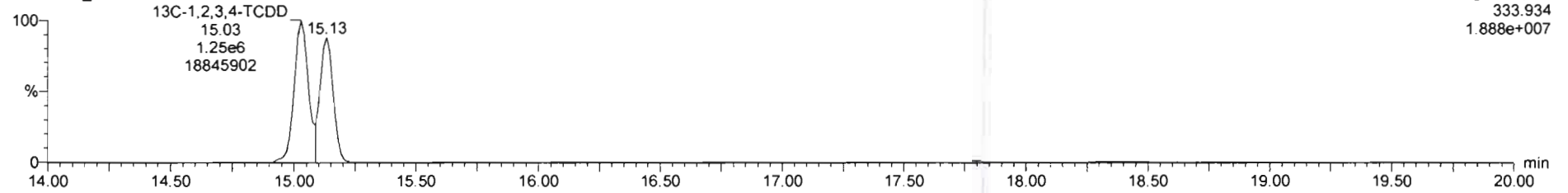
13C-1,2,3,4-TCDD

200310R3_5



Voltage SIR,EI+
331.9368
1.482e+007

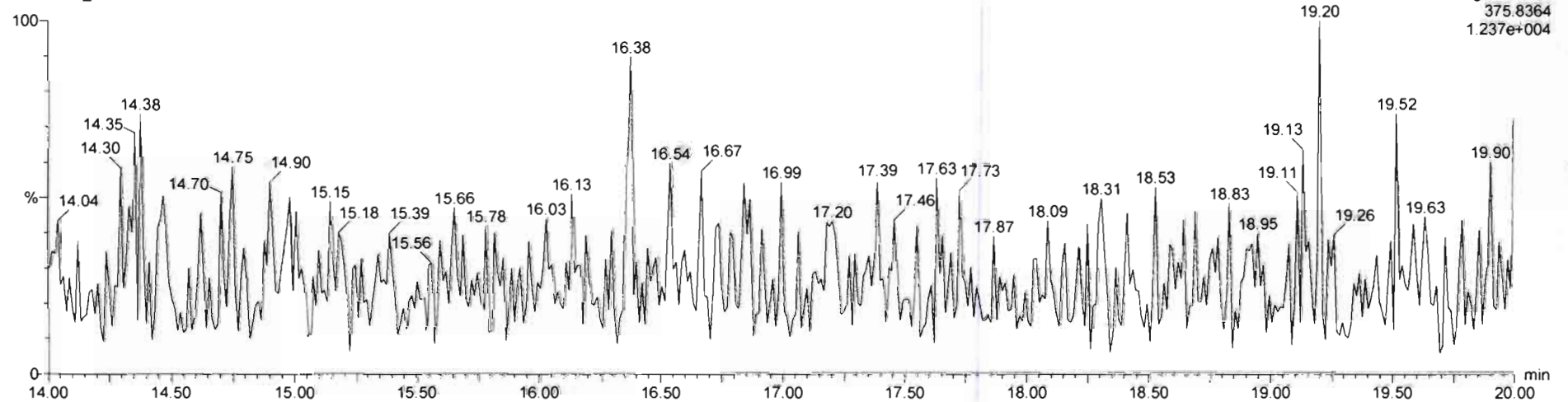
200310R3_5



Voltage SIR,EI+
333.934
1.888e+007

DPE1

200310R3_5



Voltage SIR,EI+
375.8364
1.237e+004

Dataset: U:\VG12.PRO\Results\200310R3\200310R3-6.qld

Last Altered: Wednesday, March 11, 2020 08:44:53 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 08:45:32 Pacific Daylight Time

GRB 03/11/2020

3/11/20

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200310R3_6, Date: 11-Mar-2020, Time: 03:44:29, ID: 1903736-02RE2 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.78e6	0.75	NO	0.821	9.986 ✓	16.58	208.23		0.286
2	2 13C-2,3,7,8-TCDF	2.08e6	0.78	NO	1.10	9.986	16.55	143.06	71.4	0.486
3	3 13C-1,2,3,4-TCDF	2.65e6	0.78	NO	1.00	9.986	14.45	200.28 ✓	100	0.535

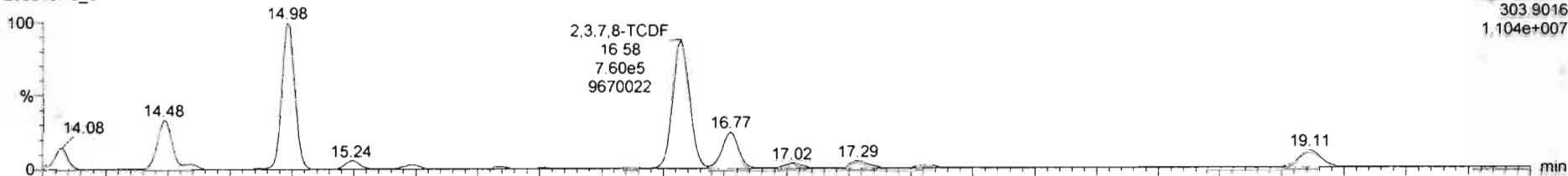
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

Name: 200310R3_6, Date: 11-Mar-2020, Time: 03:44:29, ID: 1903736-02RE2 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

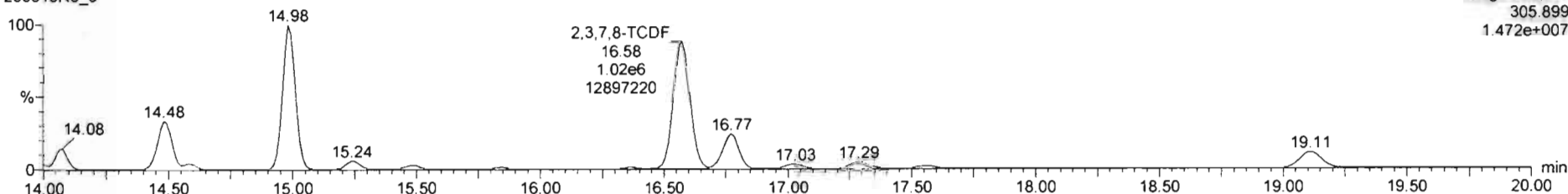
2,3,7,8-TCDF

200310R3_6



Voltage SIR,EI+
303.9016
1.104e+007

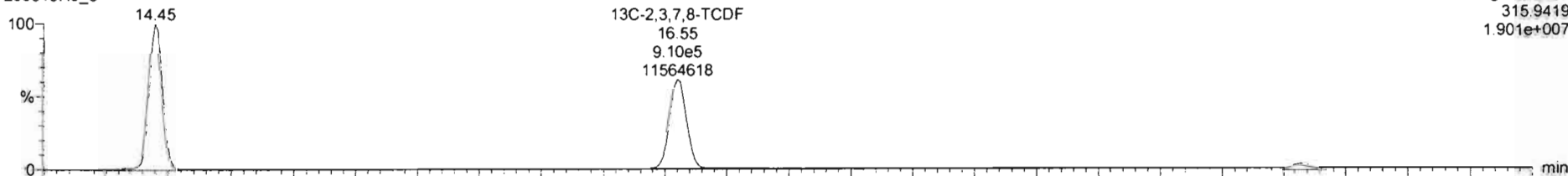
200310R3_6



Voltage SIR,EI+
305.899
1.472e+007

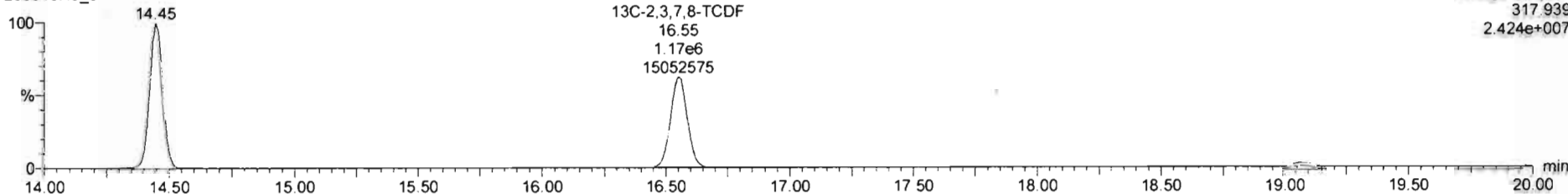
13C-2,3,7,8-TCDF

200310R3_6



Voltage SIR,EI+
315.9419
1.901e+007

200310R3_6



Voltage SIR,EI+
317.939
2.424e+007

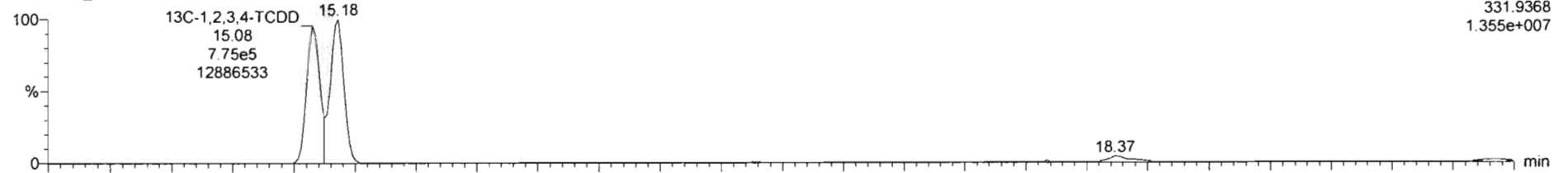
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

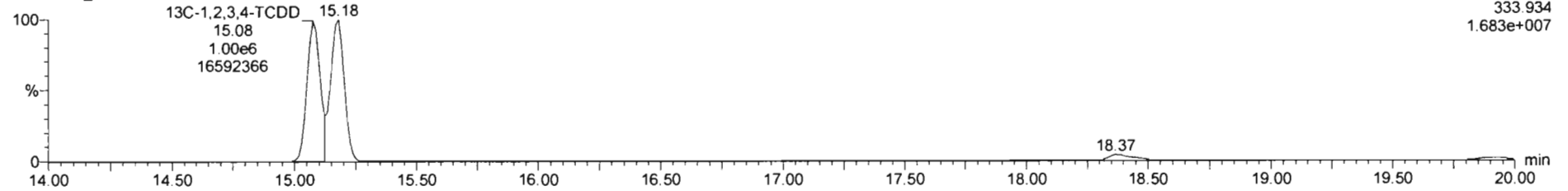
Name: 200310R3_6, Date: 11-Mar-2020, Time: 03:44:29, ID: 1903736-02RE2 PDI-026SC-B-02-04-191014 17.73, Description: PDI-026SC-B-02-04-191014

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

200310R3_6

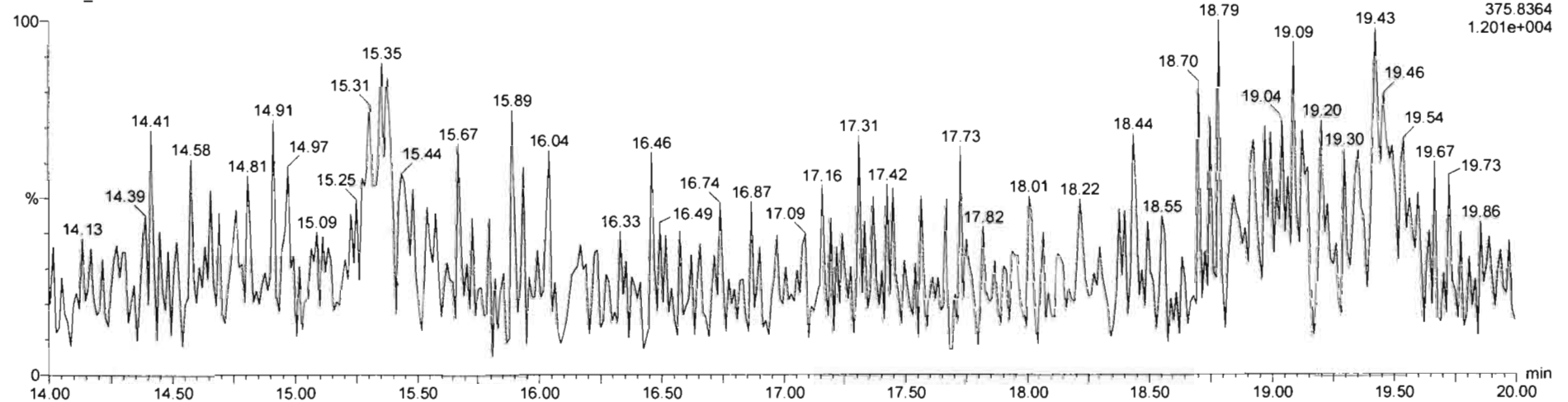


200310R3_6



DPE1

200310R3_6



Dataset: U:\VG7.PRO\Results\200330D1\200330D1_4.qld

Last Altered: Monday, March 30, 2020 17:17:14 Pacific Daylight Time
Printed: Monday, March 30, 2020 17:18:31 Pacific Daylight Time

DB 3/30/20 CT 03/31/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200330D1_4, Date: 30-Mar-2020, Time: 16:08:47, ID: 1903736-03RE2 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	8.06e1	0.82	NO	0.982	10.147	17.666	17.66	1.000	1.001	0.71089		0.728	0.711
2	2 13C-2,3,7,8-TCDF	2.28e4	0.82	NO	1.08	10.147	17.666	17.65	1.133	1.138	156.59	79.4	2.92	
3	3 13C-1,2,3,4-TCDF	2.65e4	0.80	NO	1.00	10.147	15.660	15.51	1.000	1.000	197.10	100	3.16	

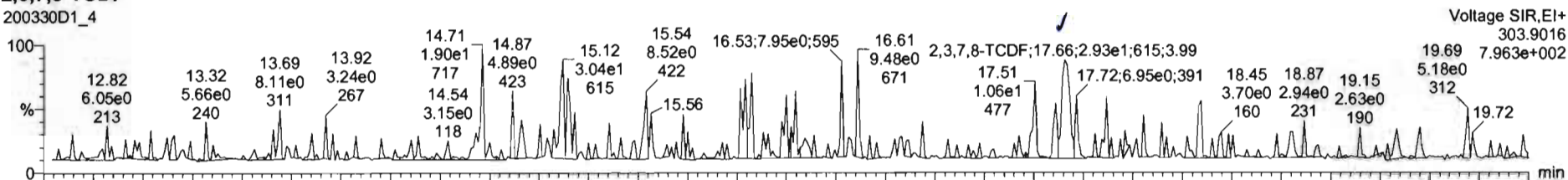
Dataset: U:\VG7.PRO\Results\200330D1\200330D1_4.qld

Last Altered: Monday, March 30, 2020 17:15:31 Pacific Daylight Time
Printed: Monday, March 30, 2020 17:16:41 Pacific Daylight Time

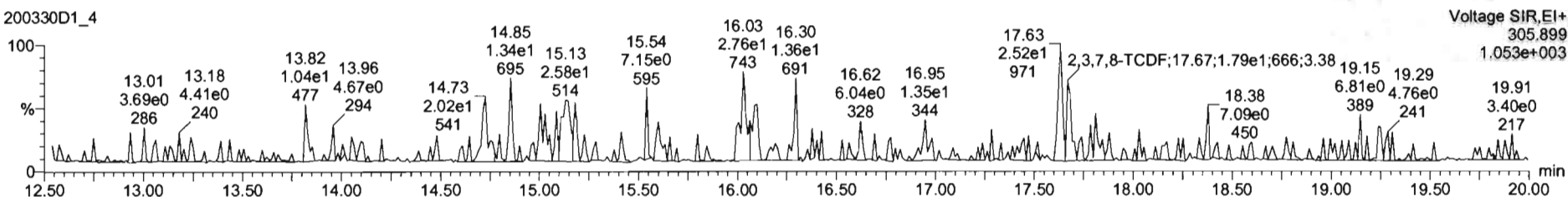
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200330D1_4, Date: 30-Mar-2020, Time: 16:08:47, ID: 1903736-03RE2 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

2,3,7,8-TCDF
200330D1_4

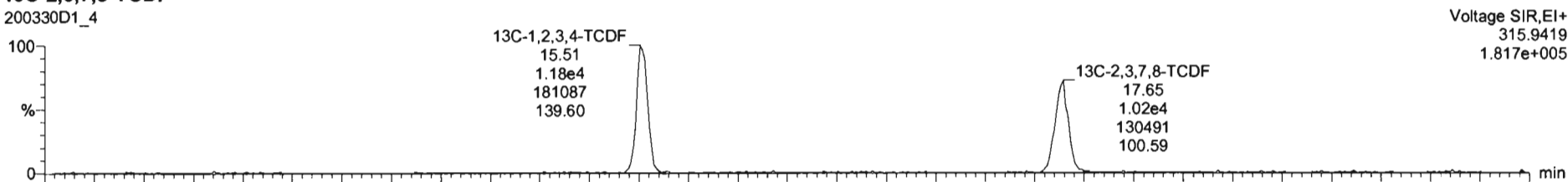


200330D1_4

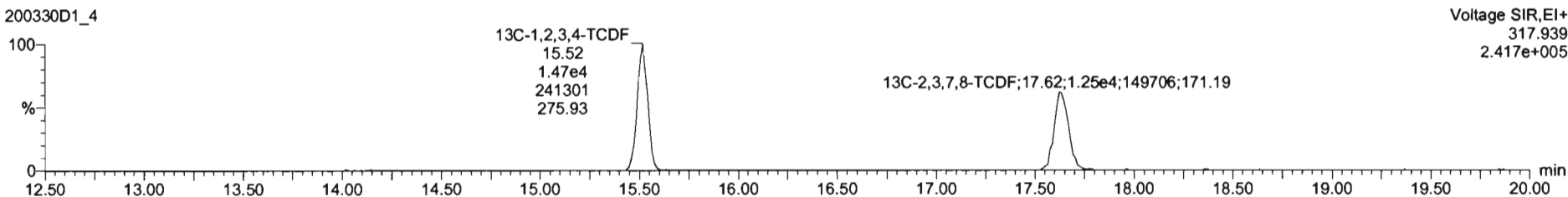


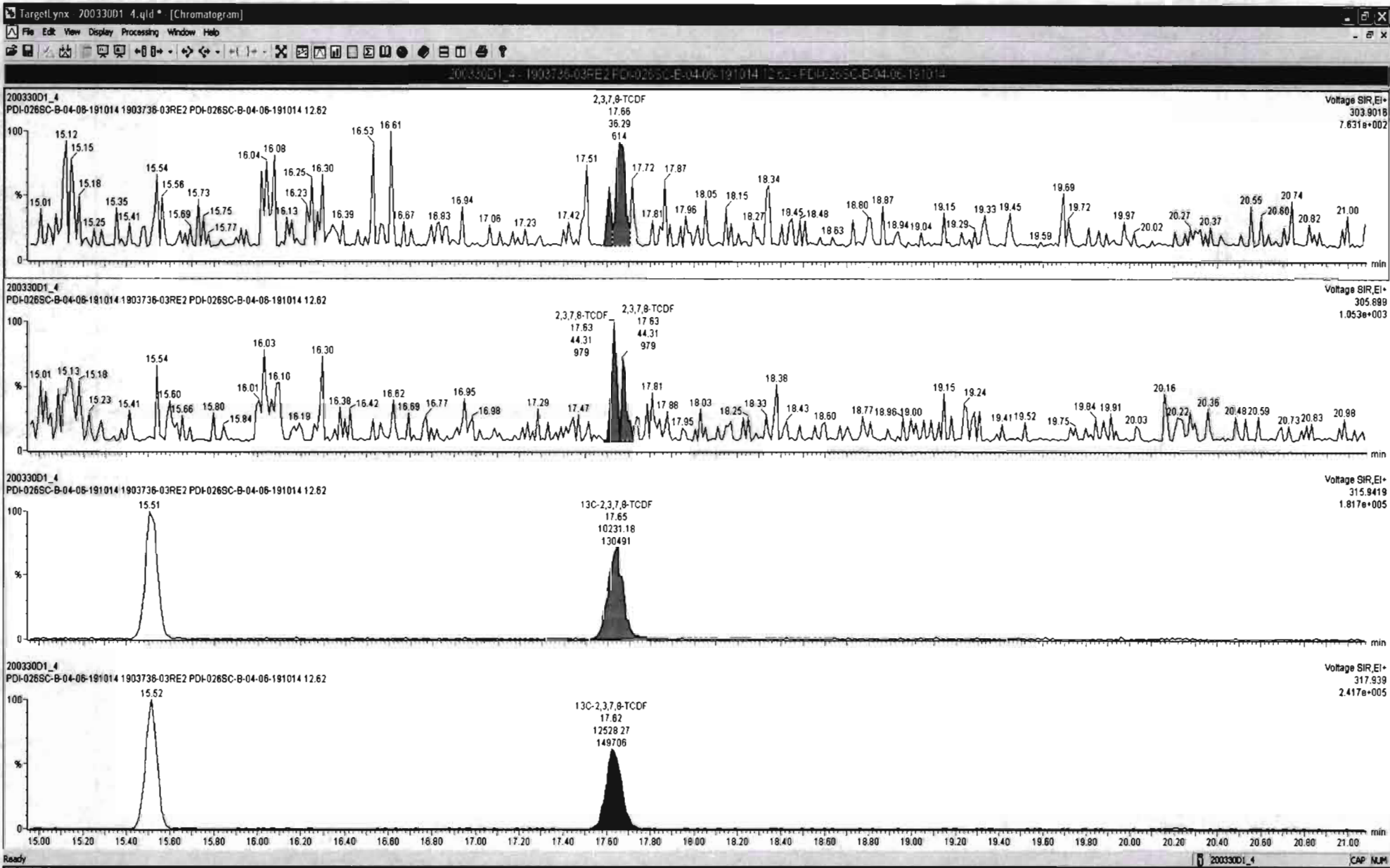
13C-2,3,7,8-TCDF

200330D1_4



200330D1_4





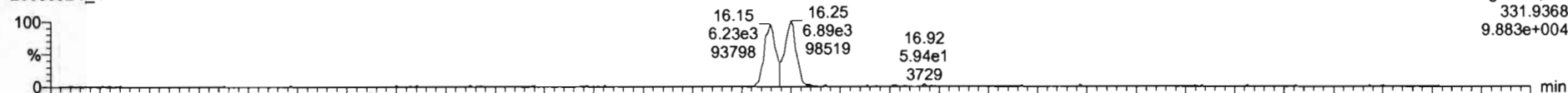
Dataset: U:\VG7.PRO\Results\200330D1\200330D1_4.qld

Last Altered: Monday, March 30, 2020 17:15:31 Pacific Daylight Time
Printed: Monday, March 30, 2020 17:16:41 Pacific Daylight Time

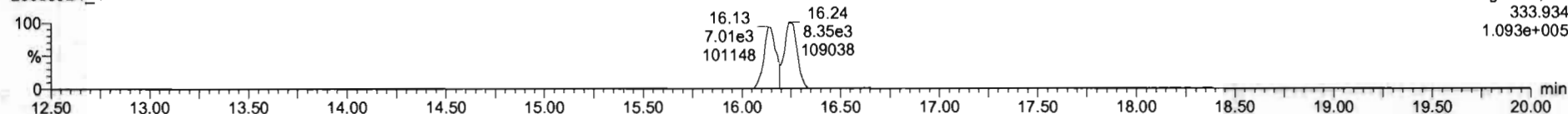
Name: 200330D1_4, Date: 30-Mar-2020, Time: 16:08:47, ID: 1903736-03RE2 PDI-026SC-B-04-06-191014 12.62, Description: PDI-026SC-B-04-06-191014

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

200330D1_4

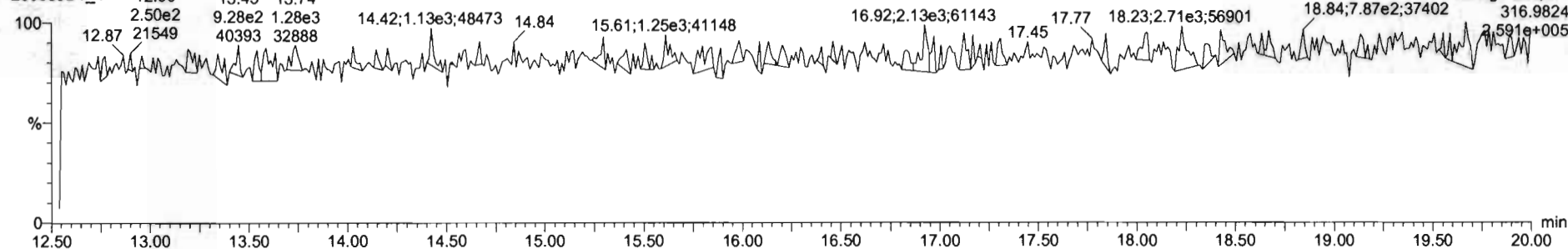


200330D1_4



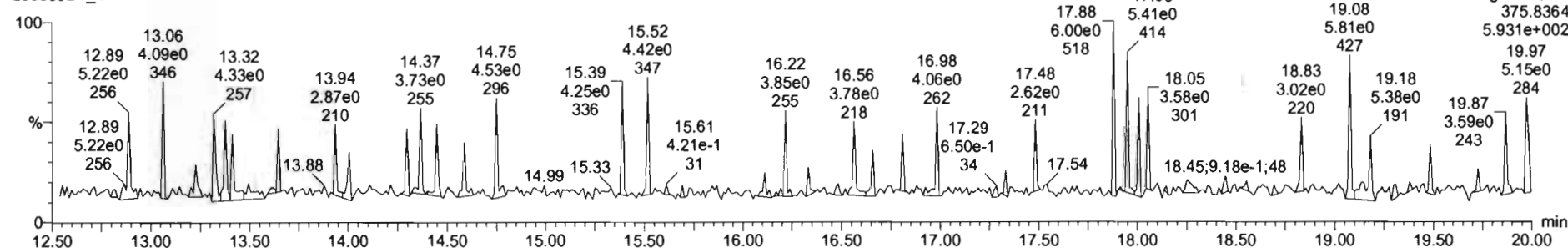
PFK1

200330D1_4



DPE1

200330D1_4



Dataset: U:\VG12.PRO\Results\200310R3\200310R3-7.qld

Last Altered: Wednesday, March 11, 2020 08:45:08 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 08:45:22 Pacific Daylight Time

GRB 03/11/2020

JA 3/11/20

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200310R3_7, Date: 11-Mar-2020, Time: 04:14:54, ID: 1903736-05RE2 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.54e5	0.76	NO	0.821	10.115	16.53	45.778		0.133
2	2 13C-2,3,7,8-TCDF	2.91e6	0.78	NO	1.10	10.115	16.52	197.10	99.7	0.305
3	3 13C-1,2,3,4-TCDF	2.66e6	0.79	NO	1.00	10.115	14.41	197.73	100	0.335

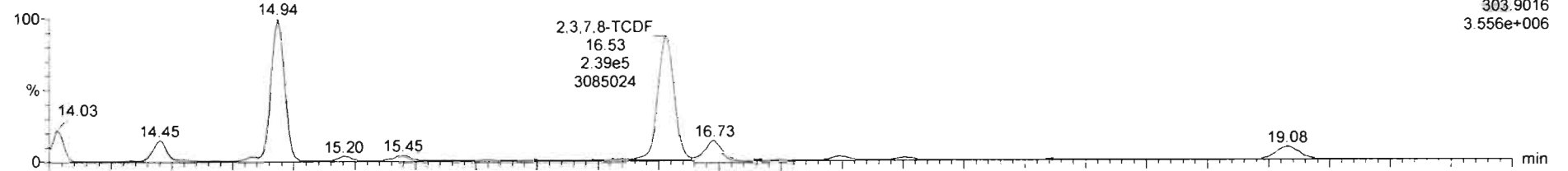
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

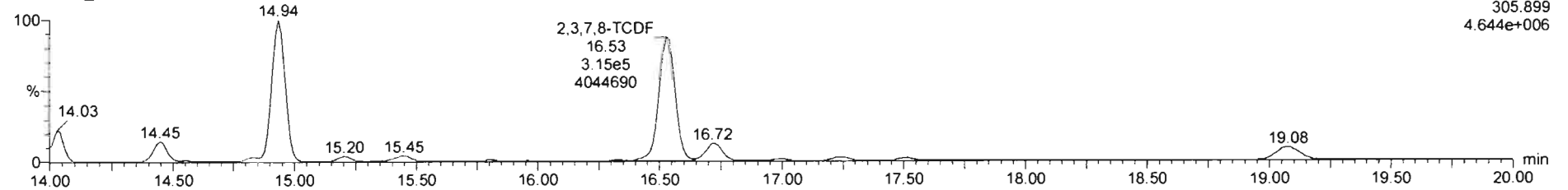
Name: 200310R3_7, Date: 11-Mar-2020, Time: 04:14:54, ID: 1903736-05RE2 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

2,3,7,8-TCDF

200310R3_7

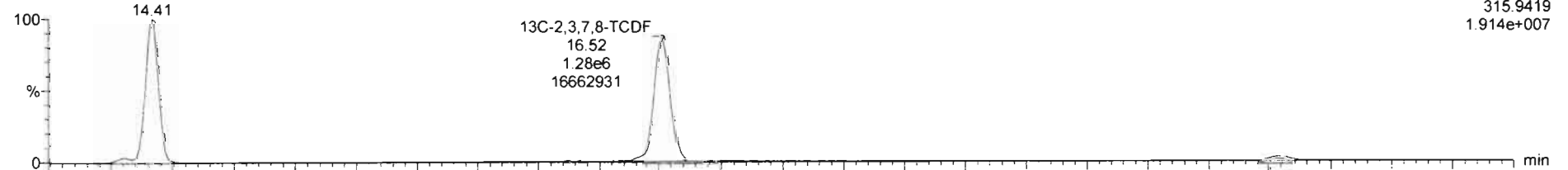


200310R3_7

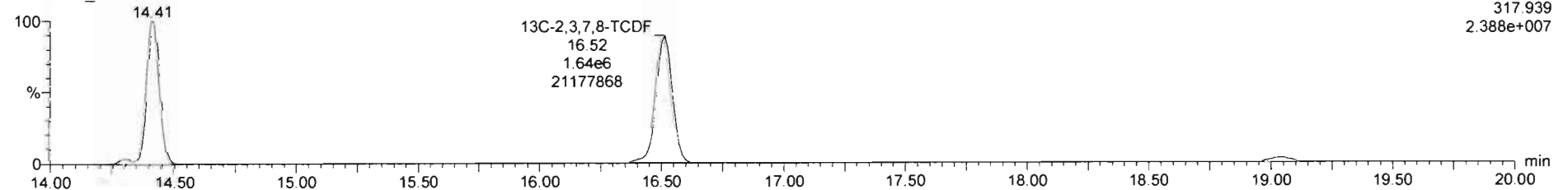


13C-2,3,7,8-TCDF

200310R3_7



200310R3_7



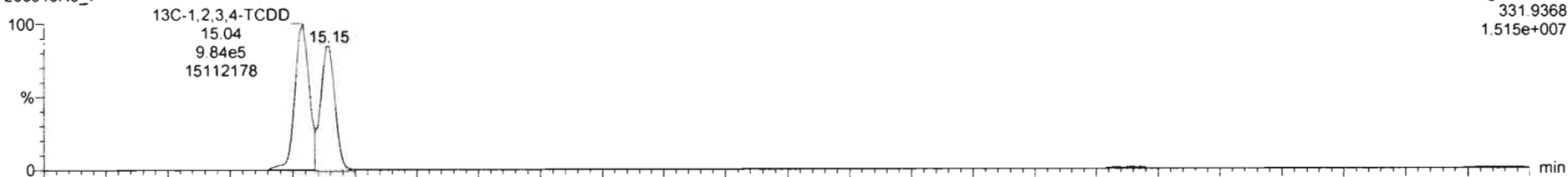
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

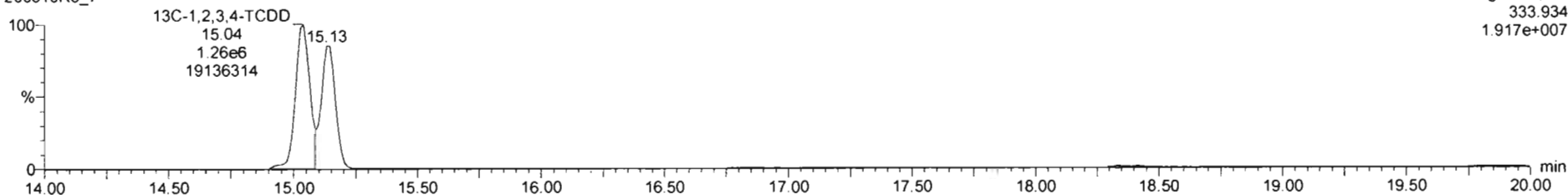
Name: 200310R3_7, Date: 11-Mar-2020, Time: 04:14:54, ID: 1903736-05RE2 PDI-077SC-B-00-02-191014 20.76, Description: PDI-077SC-B-00-02-191014

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

200310R3_7

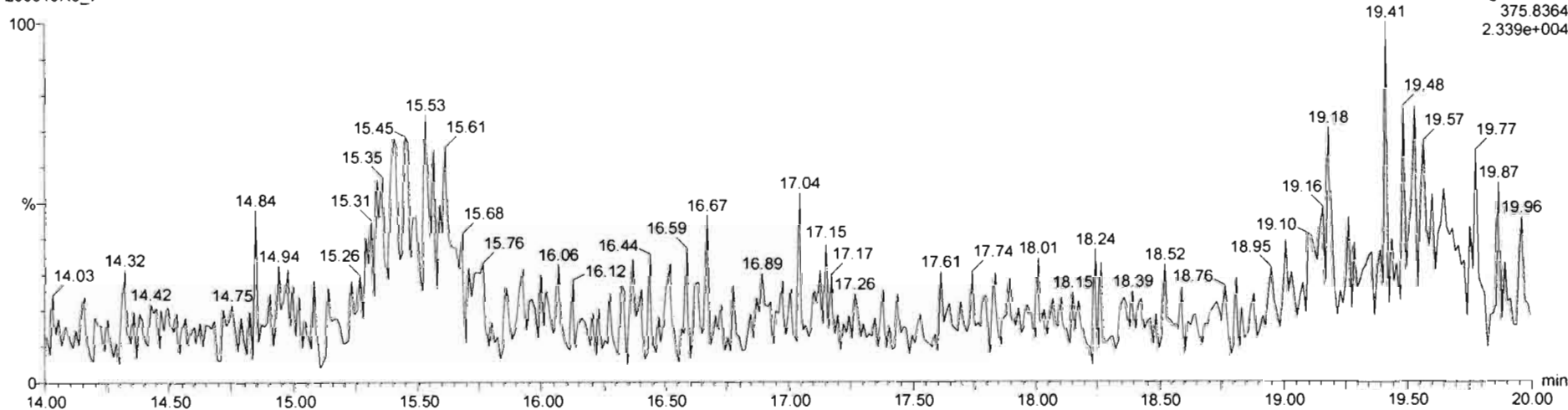


200310R3_7



DPE1

200310R3_7



Dataset: U:\VG12.PRO\Results\200310R3\200310R3-8.qld

Last Altered: Wednesday, March 11, 2020 08:45:42 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 08:46:07 Pacific Daylight Time

GLB 03/11/2020

da 3/11/20

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200310R3_8, Date: 11-Mar-2020, Time: 04:45:19, ID: 1903736-06RE2 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

#	Name	Resp	RA	n/y	RRF M...	wt/vol ✓	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.00e5	0.75	NO	0.821	9.913 ✓	16.53	48.087		0.113
2	2 13C-2,3,7,8-TCDF	3.07e6	0.78	NO	1.10	9.913	16.52	199.18	98.7	0.328
3	3 13C-1,2,3,4-TCDF	2.82e6	0.79	NO	1.00	9.913	14.41	201.75 ✓	100	0.361

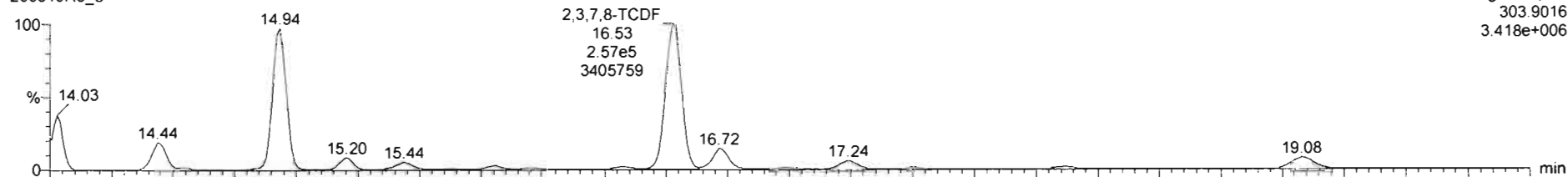
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

Name: 200310R3_8, Date: 11-Mar-2020, Time: 04:45:19, ID: 1903736-06RE2 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

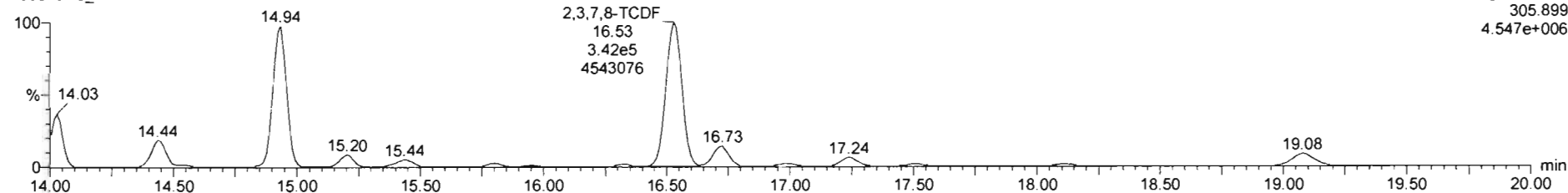
2,3,7,8-TCDF

200310R3_8



Voltage SIR, EI+
303.9016
3.418e+006

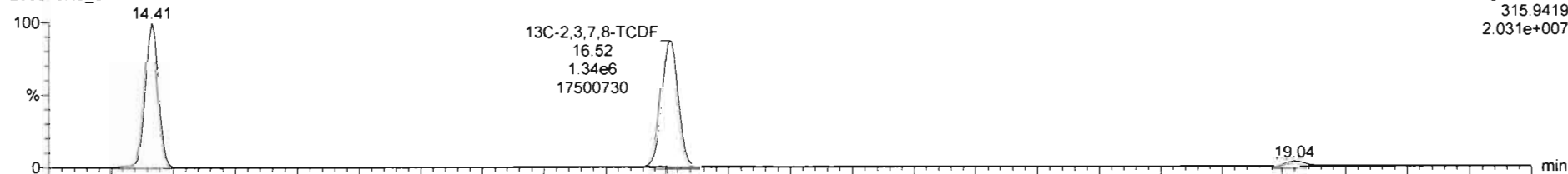
200310R3_8



Voltage SIR, EI+
305.899
4.547e+006

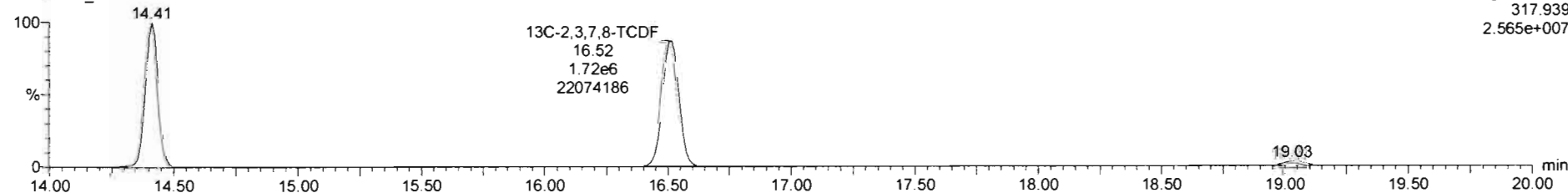
13C-2,3,7,8-TCDF

200310R3_8



Voltage SIR, EI+
315.9419
2.031e+007

200310R3_8



Voltage SIR, EI+
317.939
2.565e+007

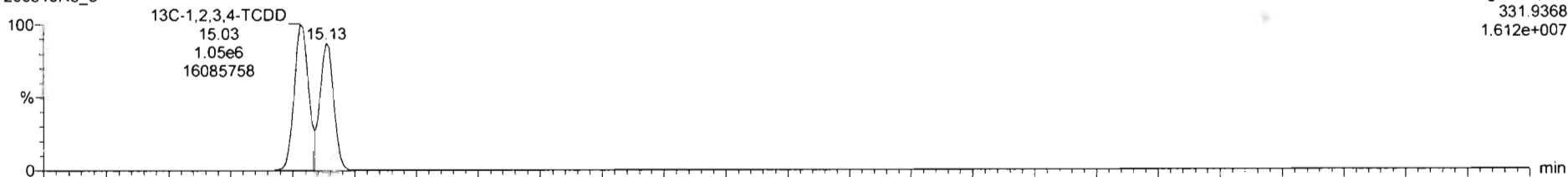
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

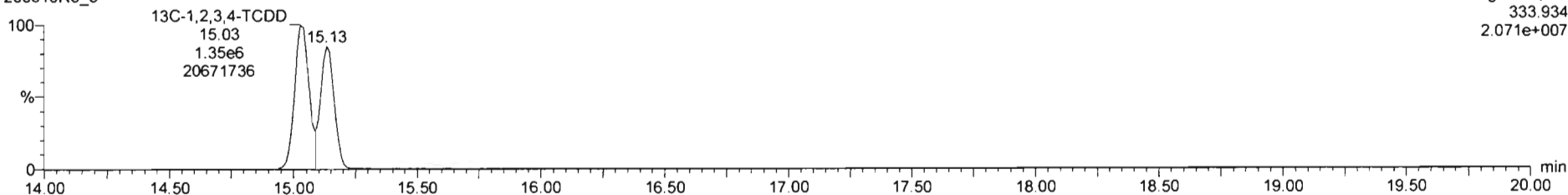
Name: 200310R3_8, Date: 11-Mar-2020, Time: 04:45:19, ID: 1903736-06RE2 PDI-077SC-B-02-04-191014 17.77, Description: PDI-077SC-B-02-04-191014

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

200310R3_8

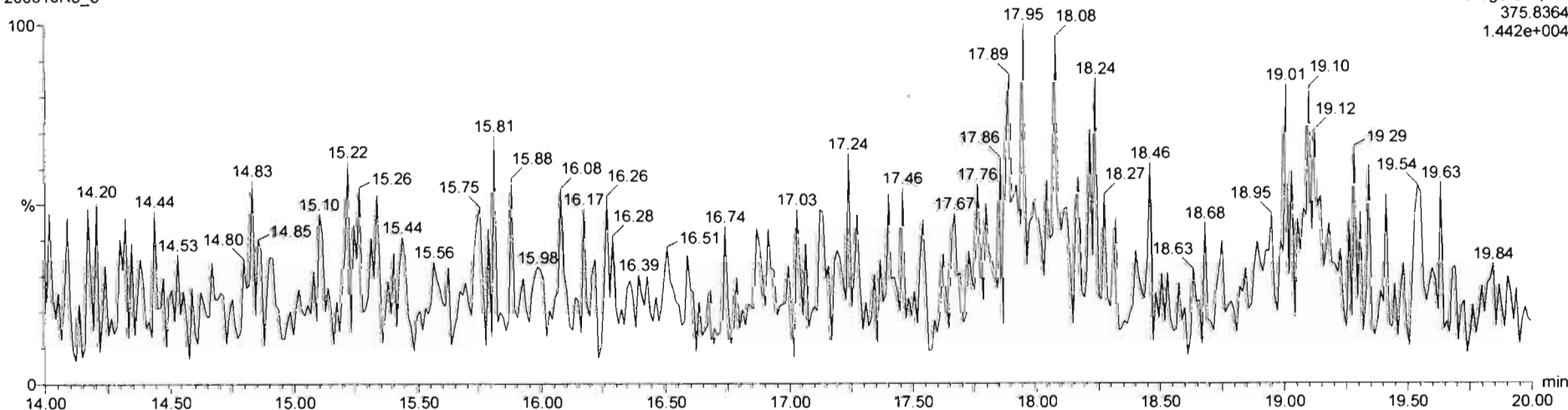


200310R3_8



DPE1

200310R3_8



Dataset: U:\VG12.PRO\Results\200310R3\200310R3-9.qld

Last Altered: Wednesday, March 11, 2020 08:46:12 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 08:46:27 Pacific Daylight Time

GRB-03/11/2020

W 3/11/20

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200310R3_9, Date: 11-Mar-2020, Time: 05:15:46, ID: 1903736-07RE2 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.07e6	0.75	NO	0.821	10.164 ✓	16.54	195.35		0.191
2	2 13C-2,3,7,8-TCDF	2.54e6	0.78	NO	1.10	10.164	16.52	162.54 ✓	82.6	0.303
3	3 13C-1,2,3,4-TCDF	2.79e6	0.79	NO	1.00	10.164	14.44	196.78 ✓	100	0.334

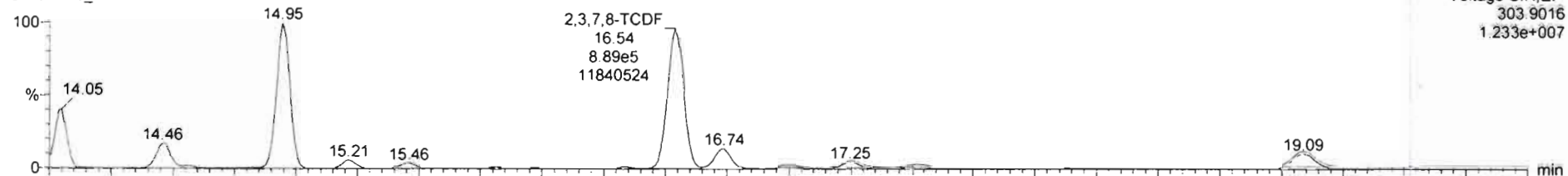
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

Name: 200310R3_9, Date: 11-Mar-2020, Time: 05:15:46, ID: 1903736-07RE2 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

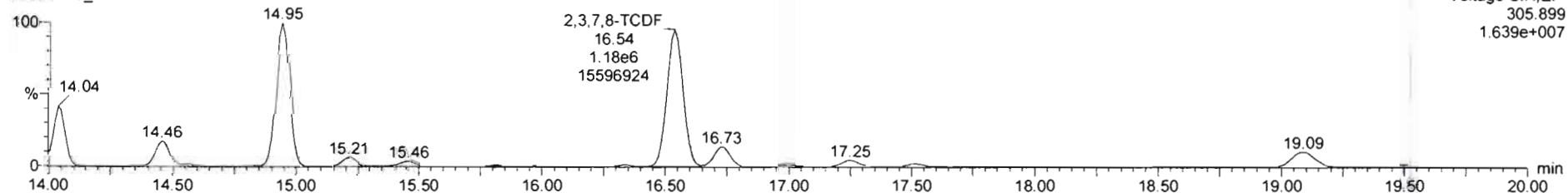
2,3,7,8-TCDF

200310R3_9



Voltage SIR,EI+
303.9016
1.233e+007

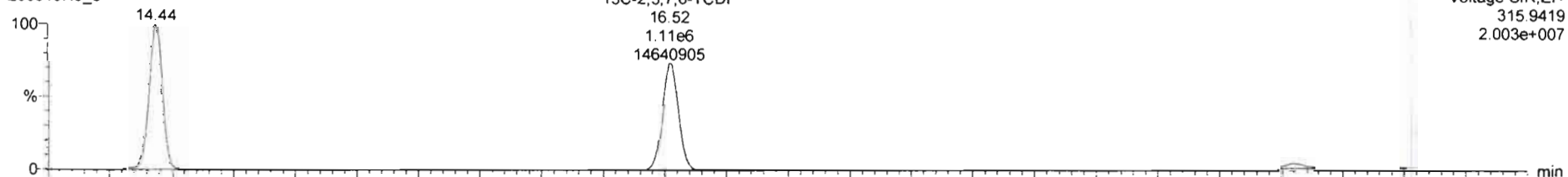
200310R3_9



Voltage SIR,EI+
305.899
1.639e+007

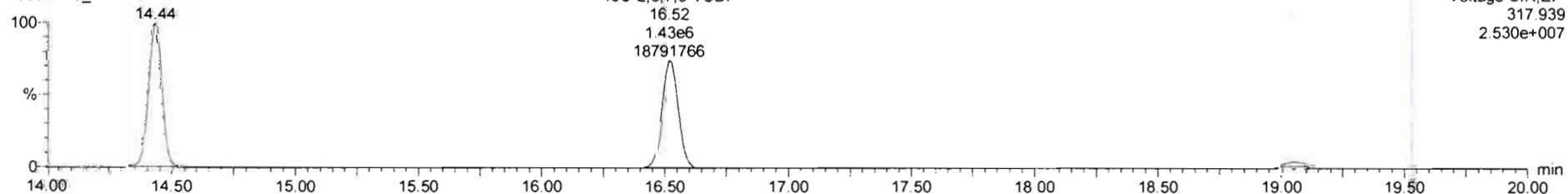
13C-2,3,7,8-TCDF

200310R3_9



Voltage SIR,EI+
315.9419
2.003e+007

200310R3_9



Voltage SIR,EI+
317.939
2.530e+007

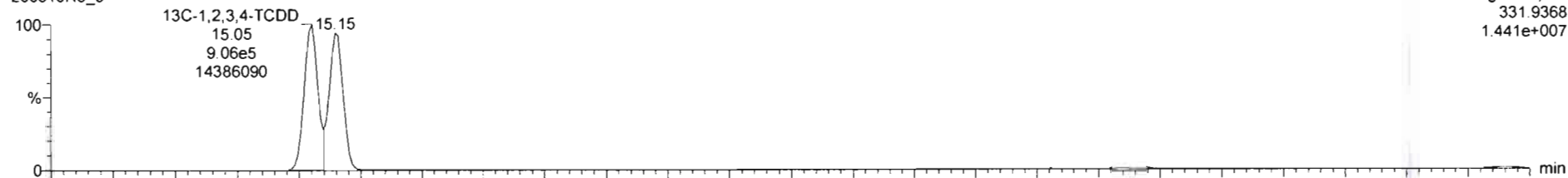
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

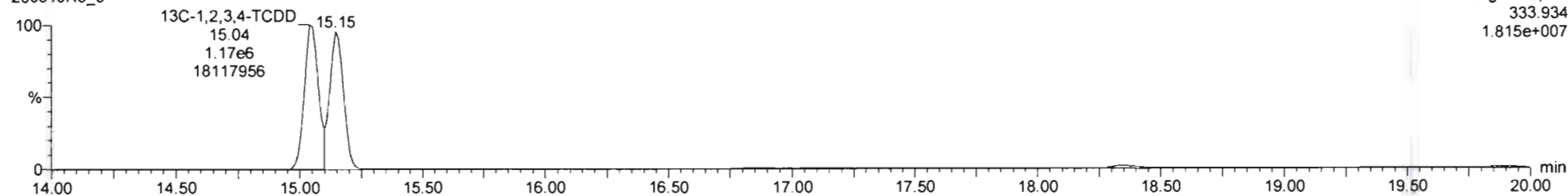
Name: 200310R3_9, Date: 11-Mar-2020, Time: 05:15:46, ID: 1903736-07RE2 PDI-077SC-B-04-06-191014 18.36, Description: PDI-077SC-B-04-06-191014

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

200310R3_9

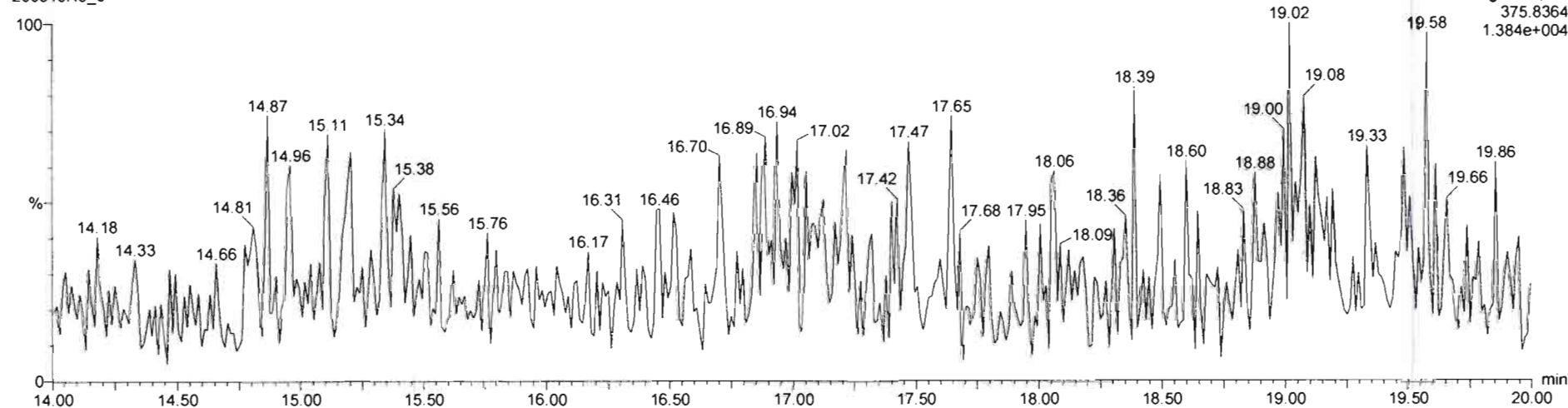


200310R3_9



DPE1

200310R3_9



Dataset: U:\VG12.PRO\Results\200310R3\200310R3-10.qld

Last Altered: Wednesday, March 11, 2020 08:46:32 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 08:46:46 Pacific Daylight Time

GPB 03/11/2020

JA 3/11/20

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200310R3_10, Date: 11-Mar-2020, Time: 05:46:11, ID: 1903736-08RE2 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.55e6	0.75	NO	0.821	10.200 ✓	16.54	225.89		0.255
2	2 13C-2,3,7,8-TCDF	2.69e6	0.78	NO	1.10	10.200	16.53	169.00	86.2	0.424
3	3 13C-1,2,3,4-TCDF	2.84e6	0.79	NO	1.00	10.200	14.44	196.09 ✓	100	0.467

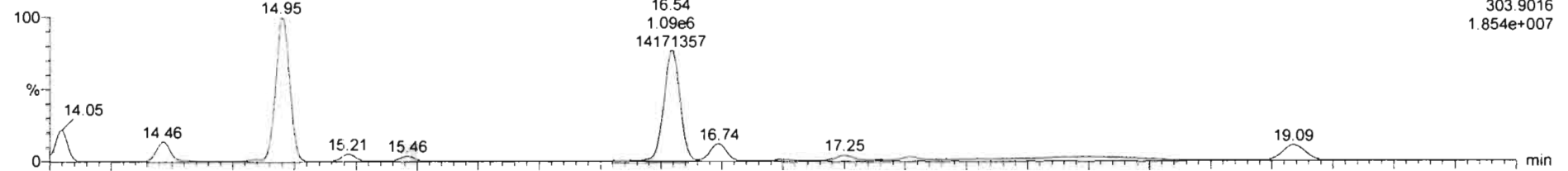
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

Name: 200310R3_10, Date: 11-Mar-2020, Time: 05:46:11, ID: 1903736-08RE2 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

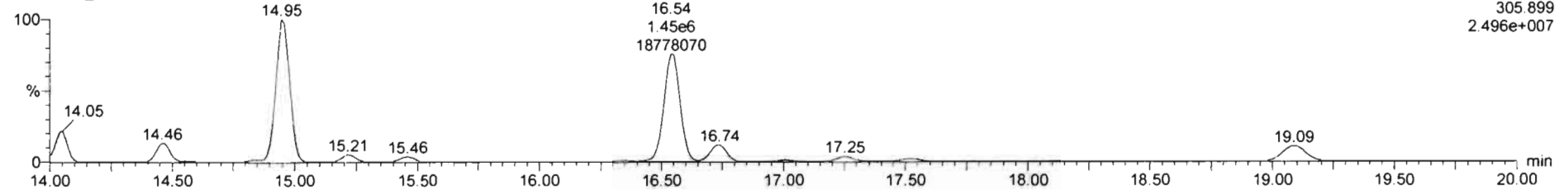
2,3,7,8-TCDF

200310R3_10



Voltage SIR,EI+
303.9016
1.854e+007

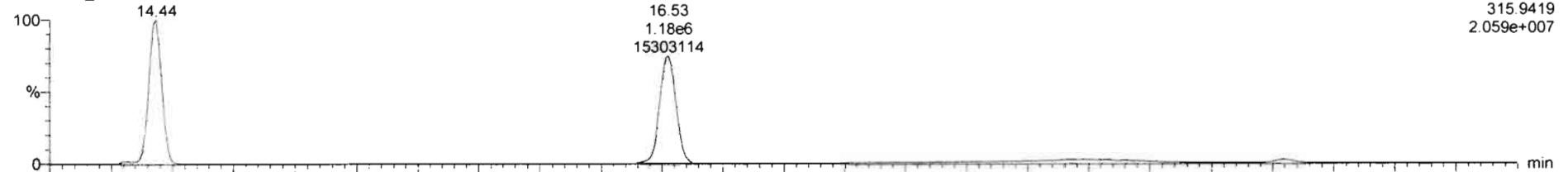
200310R3_10



Voltage SIR,EI+
305.899
2.496e+007

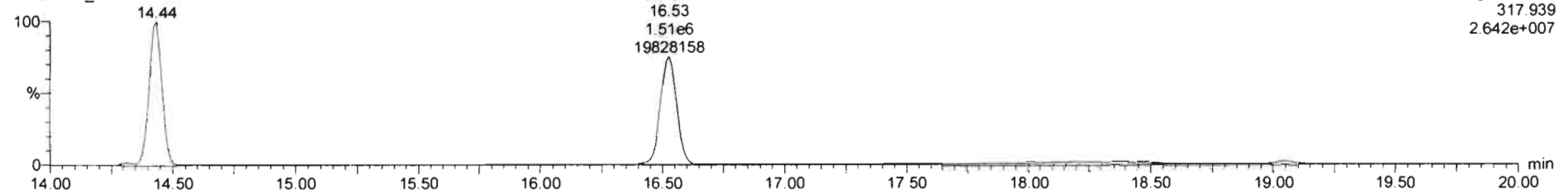
13C-2,3,7,8-TCDF

200310R3_10



Voltage SIR,EI+
315.9419
2.059e+007

200310R3_10



Voltage SIR,EI+
317.939
2.642e+007

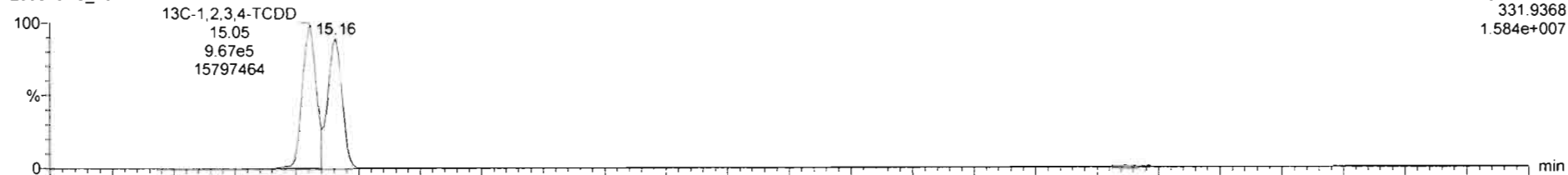
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

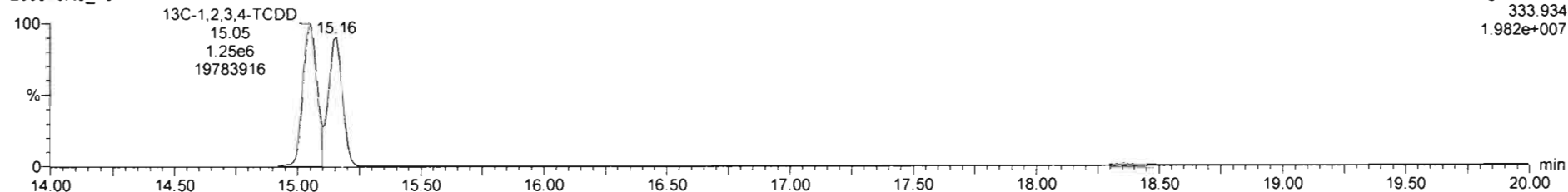
Name: 200310R3_10, Date: 11-Mar-2020, Time: 05:46:11, ID: 1903736-08RE2 PDI-077SC-B-06-08-191014 16.52, Description: PDI-077SC-B-06-08-191014

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

200310R3_10

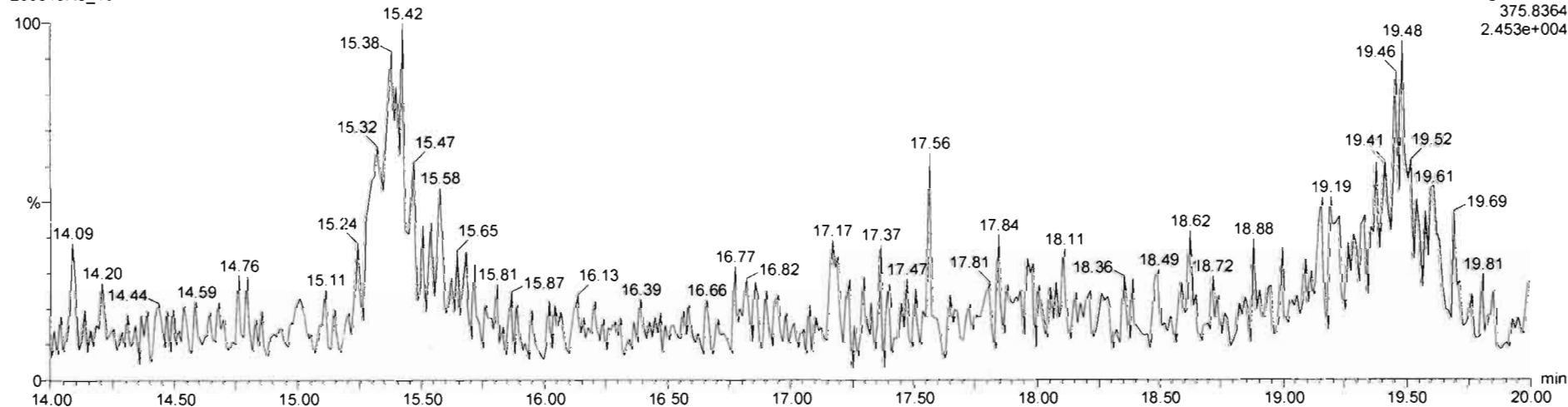


200310R3_10



DPE1

200310R3_10



Dataset: U:\VG12.PRO\Results\200310R3\200310R3-11.qld

Last Altered: Wednesday, March 11, 2020 08:46:52 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 08:47:07 Pacific Daylight Time

GPB 03/11/2020

OR 3/11/20

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200310R3_11, Date: 11-Mar-2020, Time: 06:16:36, ID: 1903736-09RE2 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.16e6	0.76	NO	0.821	10.425	16.55	119.88		0.339
2	2 13C-2,3,7,8-TCDF	2.27e6	0.78	NO	1.10	10.425	16.54	162.93	84.9	0.349
3	3 13C-1,2,3,4-TCDF	2.42e6	0.78	NO	1.00	10.425	14.44	191.84	100	0.384

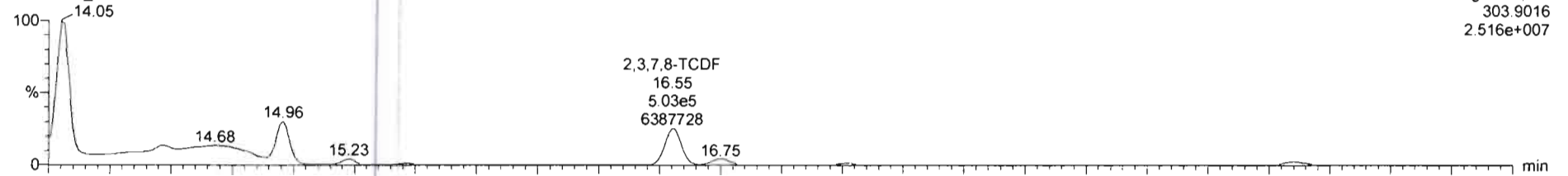
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

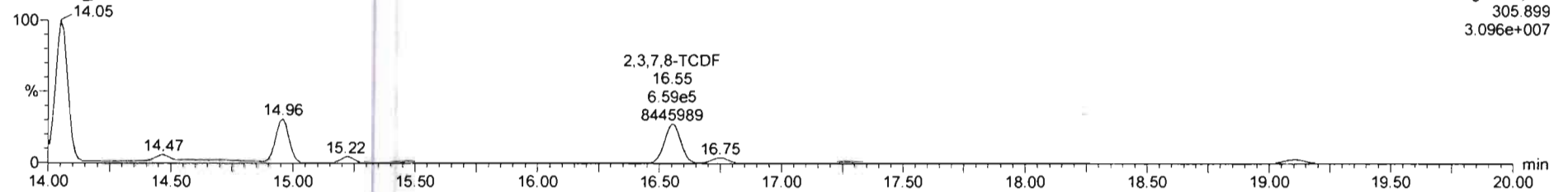
Name: 200310R3_11, Date: 11-Mar-2020, Time: 06:16:36, ID: 1903736-09RE2 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

2,3,7,8-TCDF

200310R3_11

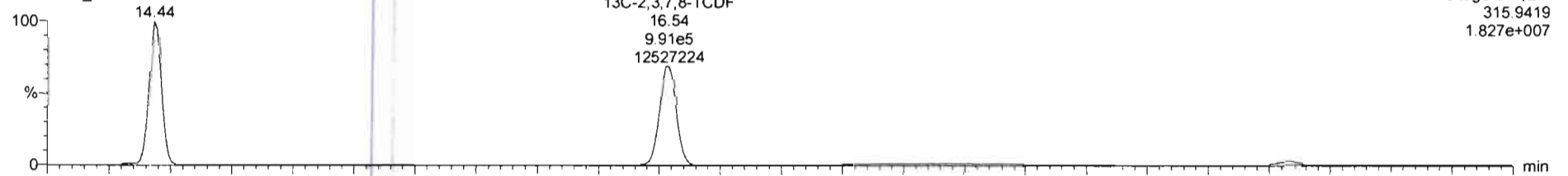


200310R3_11

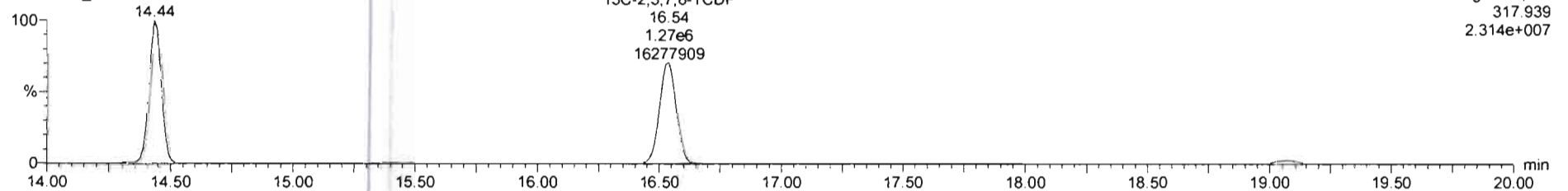


13C-2,3,7,8-TCDF

200310R3_11



200310R3_11



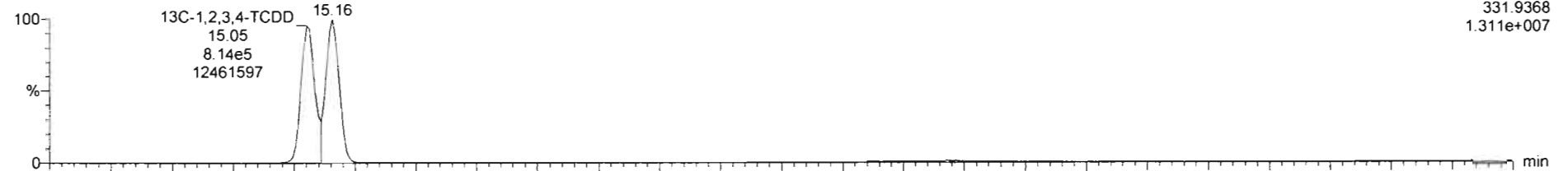
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

Name: 200310R3_11, Date: 11-Mar-2020, Time: 06:16:36, ID: 1903736-09RE2 PDI-079SC-B-00-02-191014 18.98, Description: PDI-079SC-B-00-02-191014

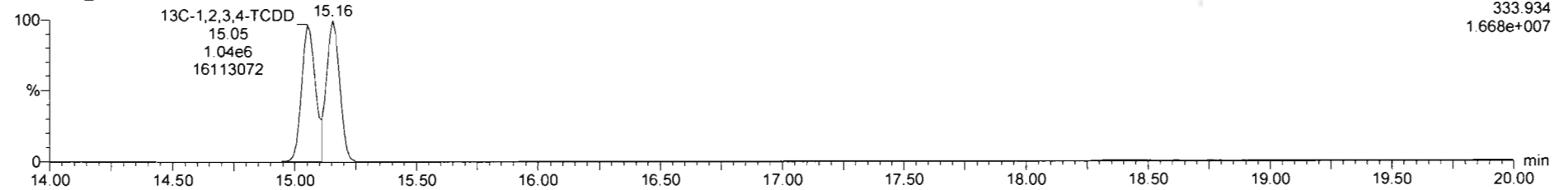
13C-1,2,3,4-TCDD

200310R3_11



Voltage SIR,EI+
331.9368
1.311e+007

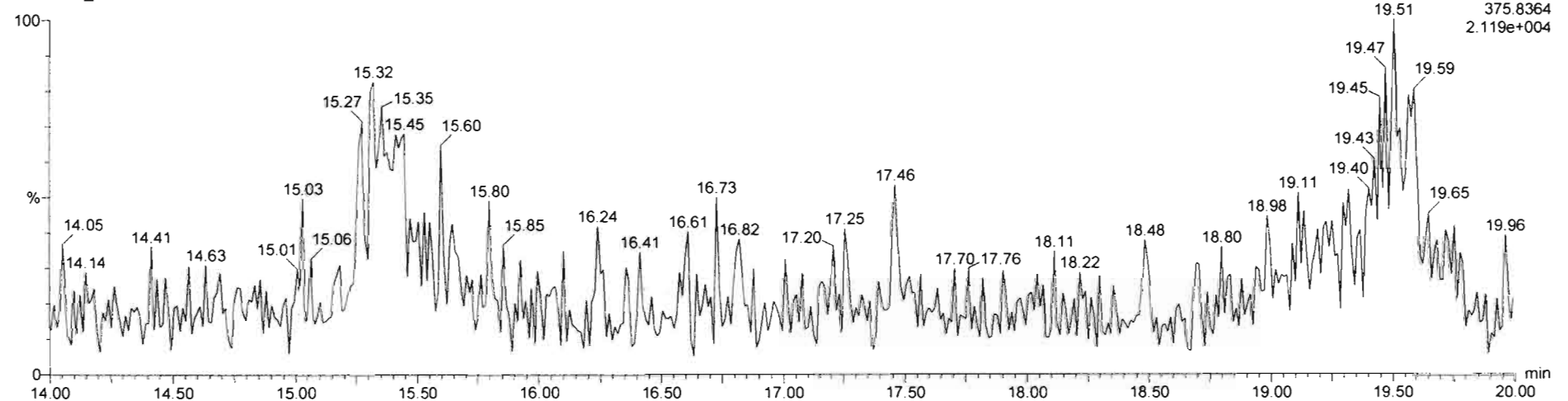
200310R3_11



Voltage SIR,EI+
333.934
1.668e+007

DPE1

200310R3_11



Voltage SIR,EI+
375.8364
2.119e+004

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_6.qld

Last Altered: Friday, March 20, 2020 14:03:09 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:04:25 Pacific Daylight Time

DB 3/20/20 C103/29/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_6, Date: 20-Mar-2020, Time: 13:28:49, ID: 1903736-10RE4 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	3.10e4	0.76	NO	0.982	10.000	17.352	17.37	1.000	1.002	240.89		2.31	241
2	2 13C-2,3,7,8-TCDF	2.62e4	0.75	NO	1.08	10.000	17.328	17.33	1.133	1.132	118.46	59.2	3.70	
3	3 13C-1,2,3,4-TCDF	4.08e4	0.79	NO	1.00	10.000	15.080	15.31	1.000	1.000	200.00	100	4.00	

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_6.qld

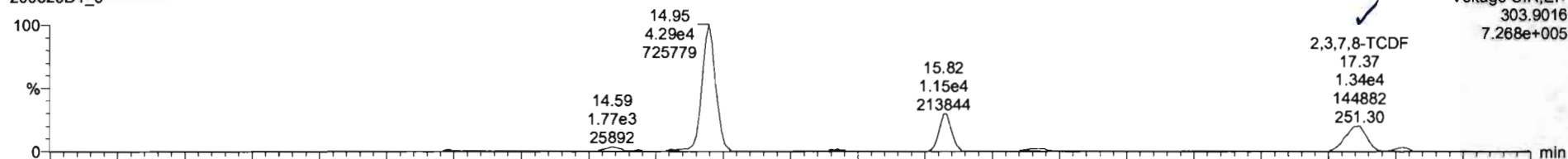
Last Altered: Friday, March 20, 2020 14:03:09 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:04:46 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

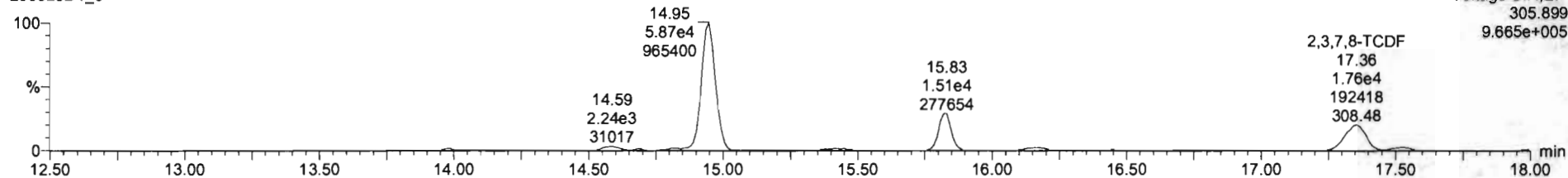
Name: 200320D1_6, Date: 20-Mar-2020, Time: 13:28:49, ID: 1903736-10RE4 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

2,3,7,8-TCDF

200320D1_6

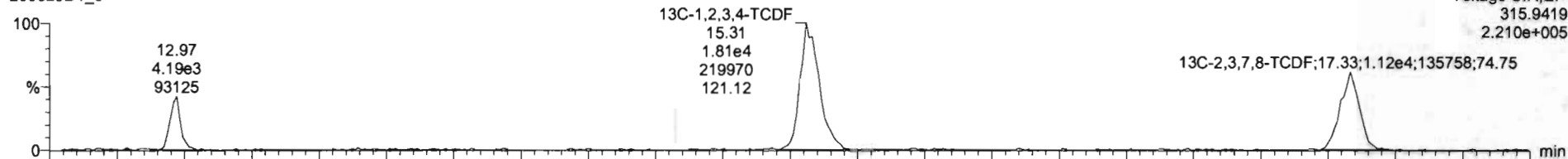


200320D1_6

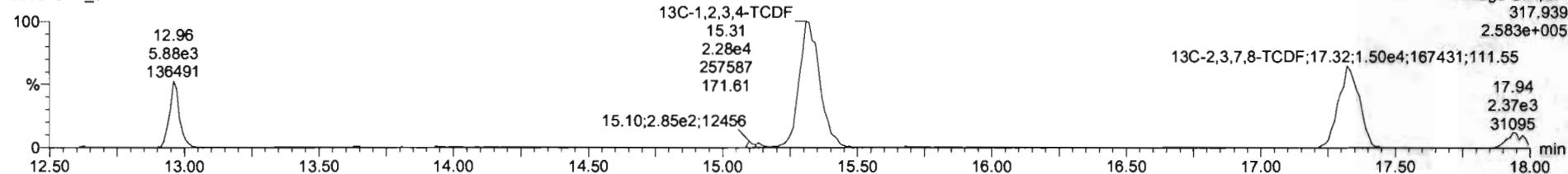


13C-2,3,7,8-TCDF

200320D1_6



200320D1_6



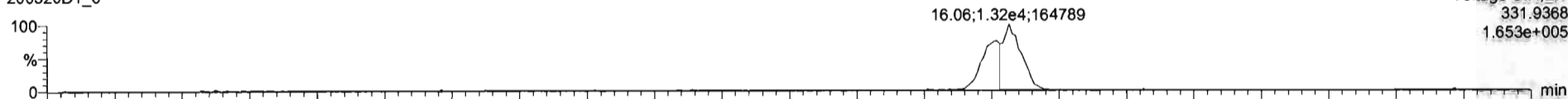
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_6.qld

Last Altered: Friday, March 20, 2020 14:03:09 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:04:46 Pacific Daylight Time

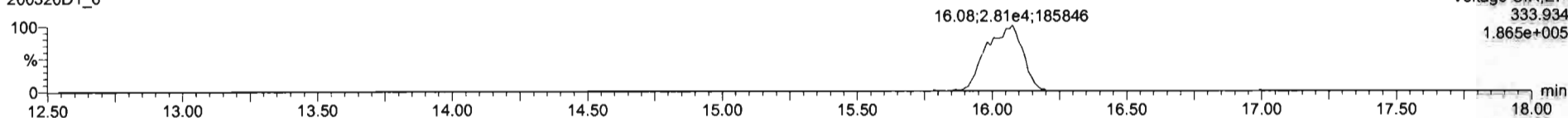
Name: 200320D1_6, Date: 20-Mar-2020, Time: 13:28:49, ID: 1903736-10RE4 PDI-079SC-B-02-04-191014 17.32, Description: PDI-079SC-B-02-04-191014

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

200320D1_6

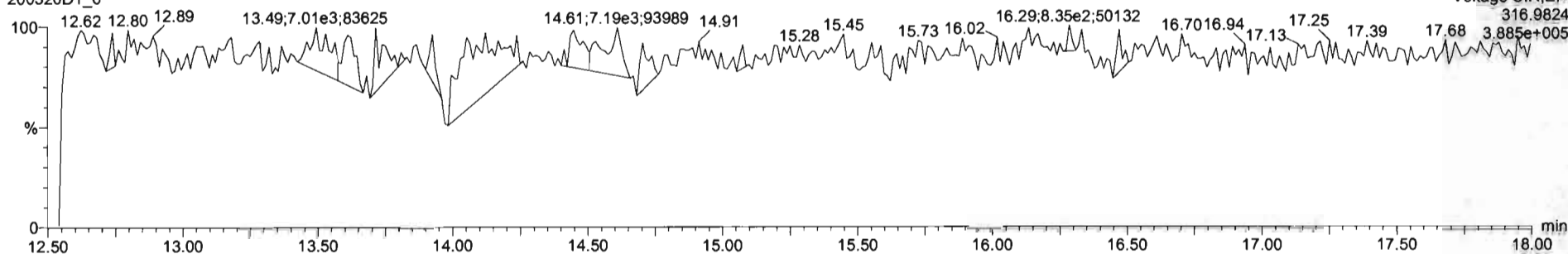


200320D1_6



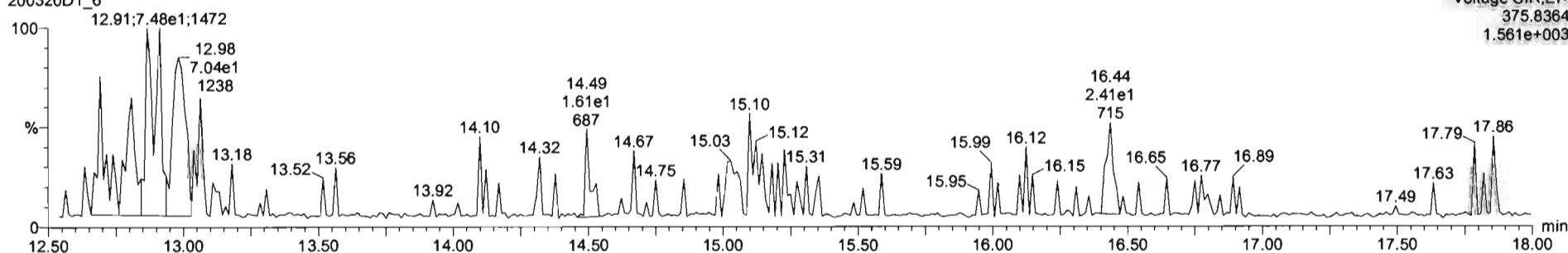
PFK1

200320D1_6



DPE1

200320D1_6



Dataset: U:\VG12.PRO\Results\200310R3\200310R3-12.qld

Last Altered: Wednesday, March 11, 2020 08:47:11 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 08:47:26 Pacific Daylight Time

GPB 03/11/2020

dh 3/11/20

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200310R3_12, Date: 11-Mar-2020, Time: 06:46:59, ID: 1903736-11RE2 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	9.32e5	0.75	NO	0.821	9.917 ✓	16.52	128.51		0.427
2	2 13C-2,3,7,8-TCDF	1.78e6	0.77	NO	1.10	9.917	16.51	122.34	60.7	0.698
3	3 13C-1,2,3,4-TCDF	2.67e6	0.80	NO	1.00	9.917	14.40	201.68 ✓	100	0.769

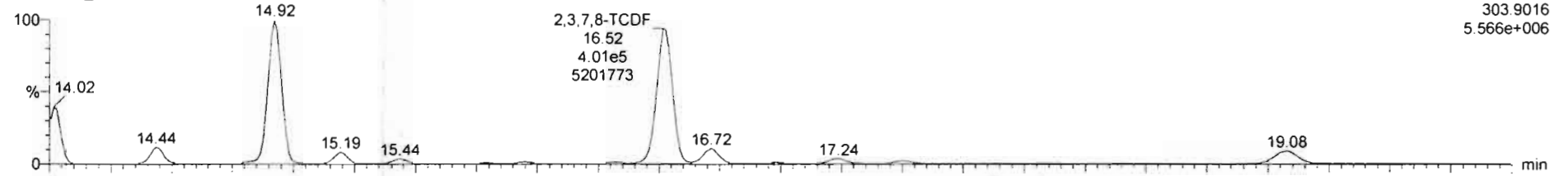
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

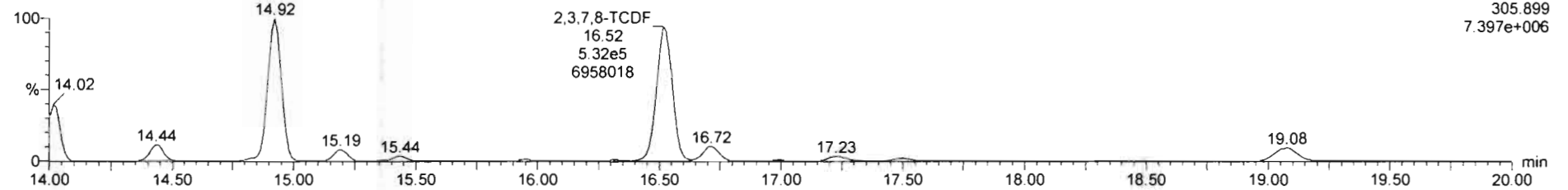
Name: 200310R3_12, Date: 11-Mar-2020, Time: 06:46:59, ID: 1903736-11RE2 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

2,3,7,8-TCDF

200310R3_12

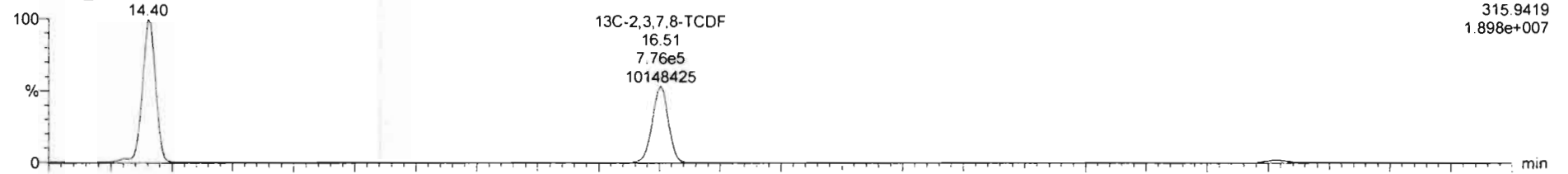


200310R3_12

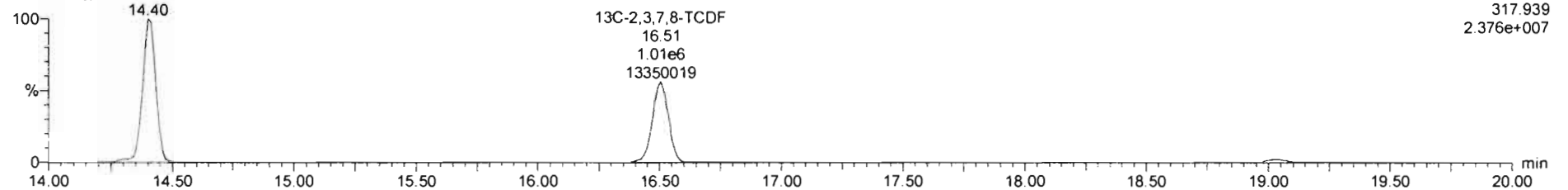


13C-2,3,7,8-TCDF

200310R3_12



200310R3_12



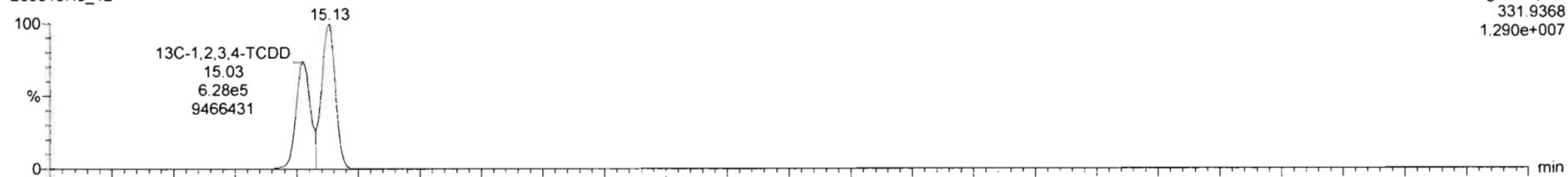
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

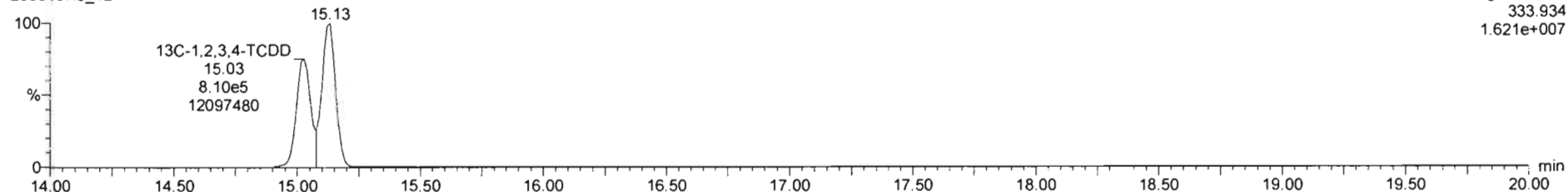
Name: 200310R3_12, Date: 11-Mar-2020, Time: 06:46:59, ID: 1903736-11RE2 PDI-079SC-B-04-06-191014 17.21, Description: PDI-079SC-B-04-06-191014

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

200310R3_12

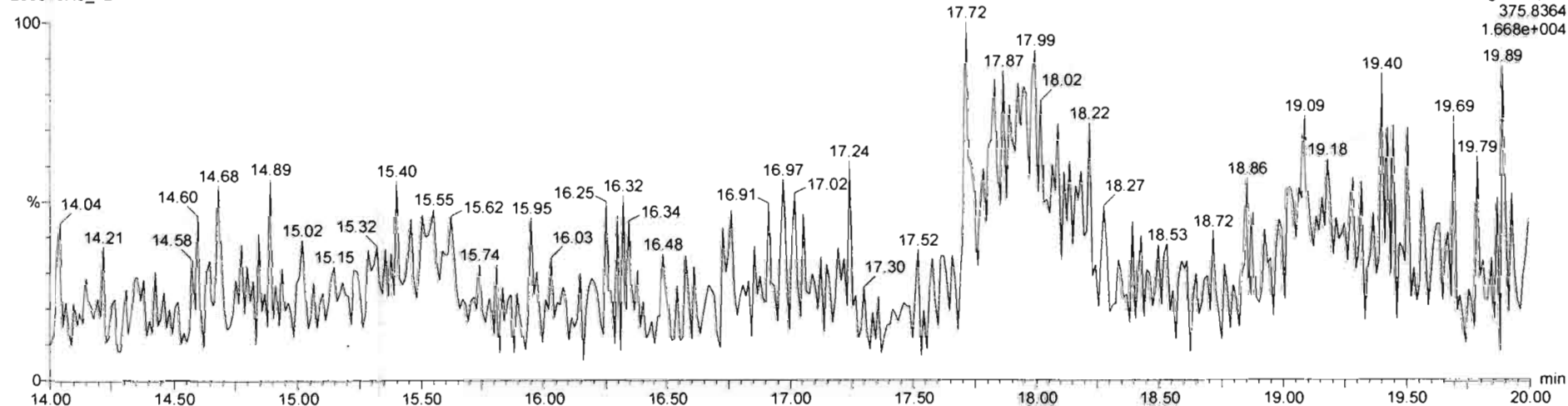


200310R3_12



DPE1

200310R3_12



Dataset: U:\VG12.PRO\Results\200310R3\200310R3-13.qld

Last Altered: Wednesday, March 11, 2020 08:47:32 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 08:47:46 Pacific Daylight Time

GRB 03/11/2020

DL 3/11/20

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200310R3_13, Date: 11-Mar-2020, Time: 07:17:25, ID: 1903736-12RE2 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.26e5	0.73	NO	0.821	10.335 ✓	16.53	13.346		0.138
2	2 13C-2,3,7,8-TCDF	2.22e6	0.78	NO	1.10	10.335	16.52	137.04	70.8	0.282
3	3 13C-1,2,3,4-TCDF	2.85e6	0.79	NO	1.00	10.335	14.42	193.51 ✓	100	0.311

Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

Name: 200310R3_13, Date: 11-Mar-2020, Time: 07:17:25, ID: 1903736-12RE2 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

2,3,7,8-TCDF

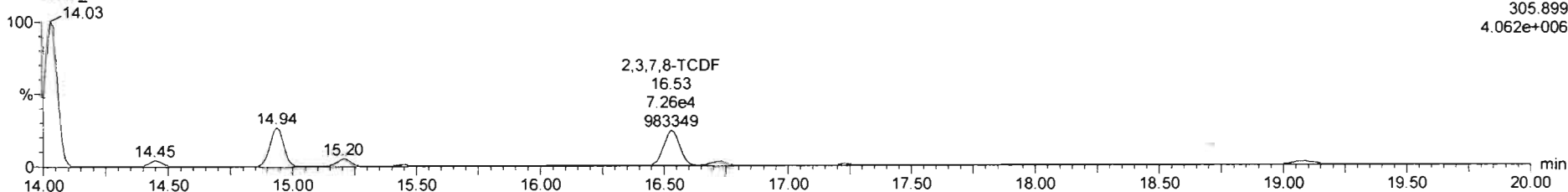
200310R3_13

Voltage SIR,EI+
303.9016
3.028e+006



200310R3_13

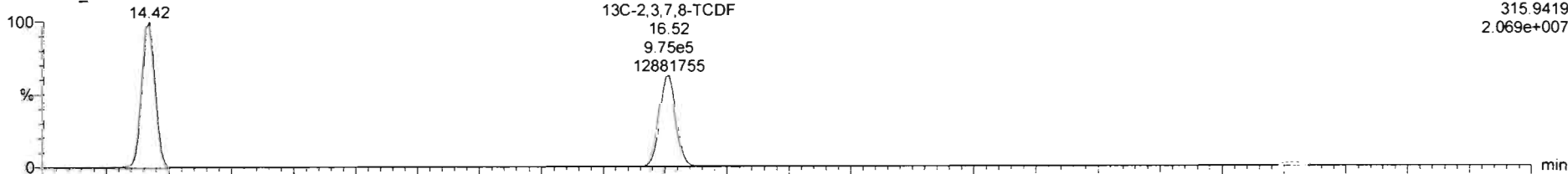
Voltage SIR,EI+
305.899
4.062e+006



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

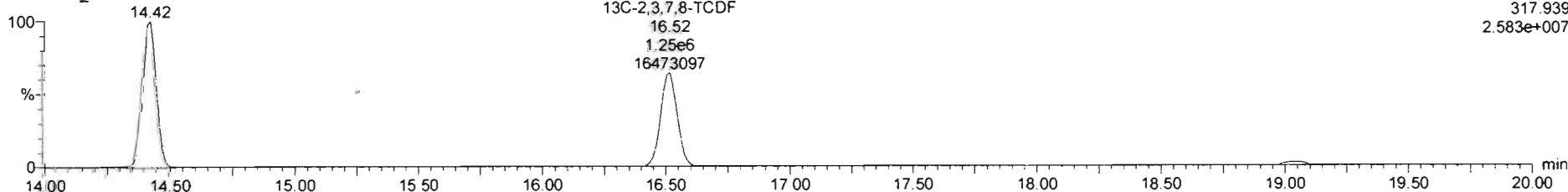
200310R3_13

Voltage SIR,EI+
315.9419
2.069e+007



200310R3_13

Voltage SIR,EI+
317.939
2.583e+007



Dataset: Untitled

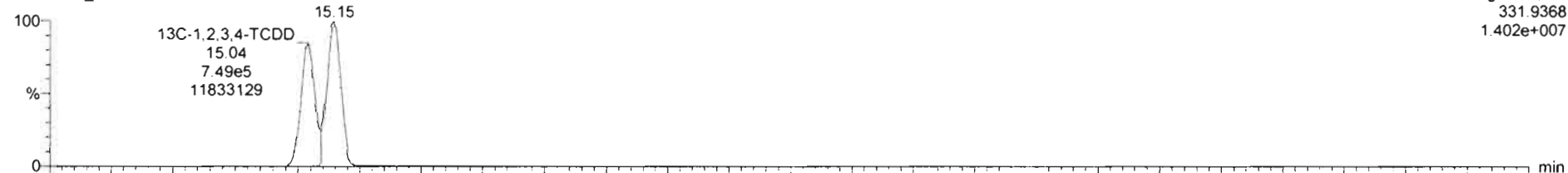
Last Altered: Wednesday, March 11, 2020 08:43:51 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 08:44:04 Pacific Daylight Time

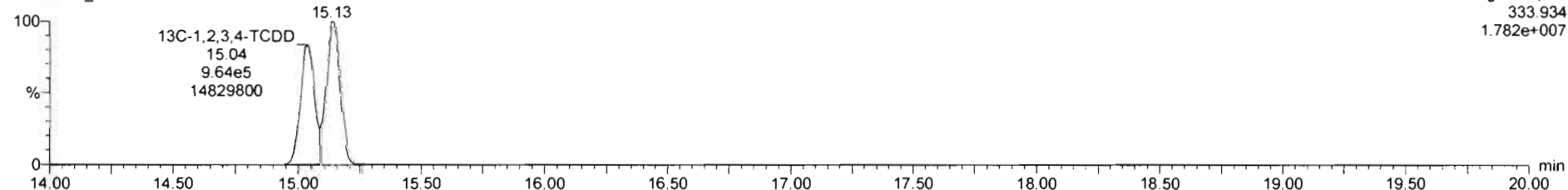
Name: 200310R3_13, Date: 11-Mar-2020, Time: 07:17:25, ID: 1903736-12RE2 PDI-079SC-B-06-08-191014 16.92, Description: PDI-079SC-B-06-08-191014

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

200310R3_13

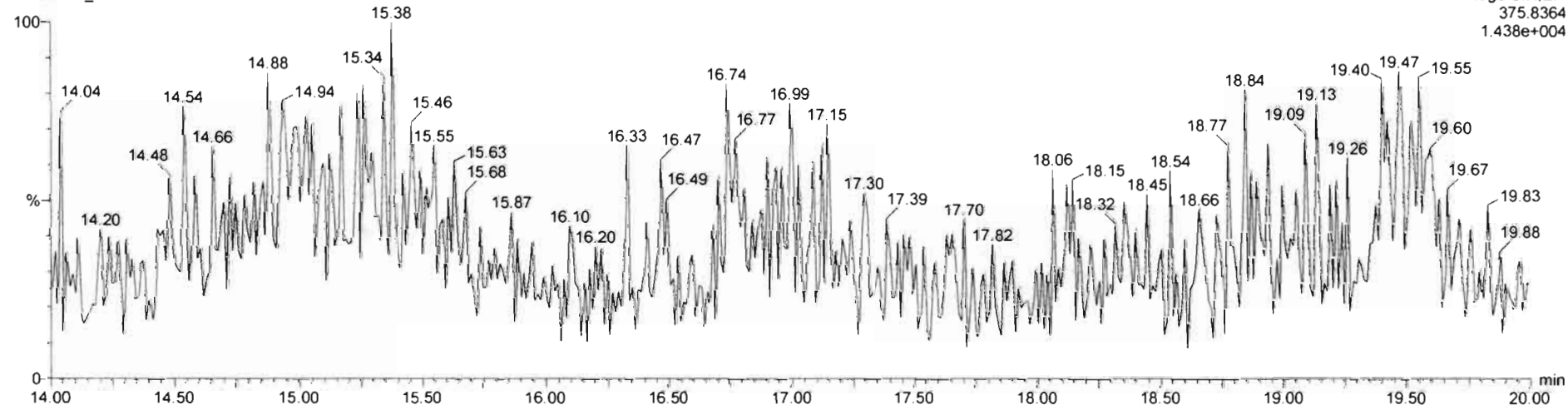


200310R3_13



DPE1

200310R3_13



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200223R2-2

Reviewed By: CT 02/24/2020
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"/> <u>NA</u>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GPB</u>	<input type="checkbox"/>
Run Log:		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>Y</u>	N
- Bottle position verified?		<u>GPB</u>

Mass resolution ≥

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:\VG12.PRO\Results\200223R2\200223R2-2.qld

Last Altered: Monday, February 24, 2020 08:41:22 Pacific Standard Time

Printed: Monday, February 24, 2020 08:41:50 Pacific Standard Time

GRB 02/24/2020

C7 02/24/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.98e5	2.17e6	0.77	NO	0.988	25.74	25.74	NO	1.001	1.001	9.2758	92.8	NO
2	2 1,2,3,7,8-PeCDD	6.89e5	1.61e6	0.62	NO	0.972	30.83	30.82	NO	1.001	1.000	44.063	88.1	NO
3	3 1,2,3,4,7,8-HxCDD	6.05e5	1.13e6	1.30	NO	1.07	34.19	34.19	NO	1.000	1.000	49.966	99.9	NO
4	4 1,2,3,6,7,8-HxCDD	6.66e5	1.48e6	1.19	NO	0.921	34.28	34.28	NO	1.000	1.000	48.769	97.5	NO
5	5 1,2,3,7,8,9-HxCDD	5.78e5	1.29e6	1.23	NO	0.918	34.59	34.56	NO	1.001	1.000	48.698	97.4	NO
6	6 1,2,3,4,6,7,8-HpCDD	4.38e5	9.28e5	1.05	NO	0.923	38.06	38.06	NO	1.000	1.000	51.089	102	NO
7	7 OCDD	8.25e5	1.74e6	0.89	NO	0.975	41.15	41.15	NO	1.000	1.000	97.441	97.4	NO
8	8 2,3,7,8-TCDF	2.29e5	2.72e6	0.77	NO	0.802	24.79	24.79	NO	1.001	1.001	10.508	105	NO
9	9 1,2,3,7,8-PeCDF	1.01e6	2.20e6	1.56	NO	0.907	29.51	29.51	NO	1.001	1.001	50.439	101	NO
10	10 2,3,4,7,8-PeCDF	1.02e6	2.18e6	1.54	NO	0.952	30.51	30.50	NO	1.001	1.000	49.289	98.6	NO
11	11 1,2,3,4,7,8-HxCDF	6.98e5	1.47e6	1.20	NO	0.862	33.32	33.33	NO	1.000	1.000	54.976	110	NO
12	12 1,2,3,6,7,8-HxCDF	8.14e5	1.70e6	1.21	NO	0.841	33.44	33.44	NO	1.000	1.000	56.896	114	NO
13	13 2,3,4,6,7,8-HxCDF	7.90e5	1.56e6	1.21	NO	0.898	34.04	34.02	NO	1.001	1.000	56.260	113	NO
14	14 1,2,3,7,8,9-HxCDF	5.92e5	1.25e6	1.20	NO	0.858	34.89	34.90	NO	1.000	1.000	55.218	110	NO
15	15 1,2,3,4,6,7,8-HpCDF	5.36e5	1.15e6	0.99	NO	0.851	36.67	36.64	NO	1.001	1.000	54.552	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.99e5	7.53e5	1.00	NO	0.980	38.68	38.71	NO	1.000	1.001	54.047	108	NO
17	17 OCDF	8.85e5	2.08e6	0.89	NO	0.806	41.33	41.34	NO	1.000	1.000	105.70	106	NO
18	18 13C-2,3,7,8-TCDD	2.17e6	1.87e6	0.78	NO	1.20	25.68	25.70	NO	1.026	1.027	96.493	96.5	NO
19	19 13C-1,2,3,7,8-PeCDD	1.61e6	1.87e6	0.64	NO	0.967	30.41	30.81	NO	1.215	1.231	88.869	88.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	1.13e6	1.52e6	1.26	NO	0.874	34.17	34.18	NO	1.014	1.014	85.145	85.1	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.48e6	1.52e6	1.24	NO	1.05	34.27	34.28	NO	1.017	1.017	93.256	93.3	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.29e6	1.52e6	1.21	NO	0.974	34.58	34.55	NO	1.026	1.025	87.261	87.3	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.28e5	1.52e6	1.08	NO	0.747	38.15	38.04	NO	1.132	1.129	81.650	81.6	NO
24	24 13C-OCDD	1.74e6	1.52e6	0.88	NO	0.707	41.05	41.15	NO	1.218	1.221	161.65	80.8	NO
25	25 13C-2,3,7,8-TCDF	2.72e6	2.62e6	0.78	NO	1.07	24.86	24.76	NO	0.993	0.989	97.500	97.5	NO
26	26 13C-1,2,3,7,8-PeCDF	2.20e6	2.62e6	1.57	NO	1.00	29.44	29.49	NO	1.176	1.178	83.971	84.0	NO
27	27 13C-2,3,4,7,8-PeCDF	2.18e6	2.62e6	1.56	NO	0.962	30.41	30.48	NO	1.215	1.218	86.411	86.4	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.47e6	1.52e6	0.51	NO	1.05	33.30	33.32	NO	0.988	0.989	92.320	92.3	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.70e6	1.52e6	0.51	NO	1.19	33.40	33.43	NO	0.991	0.992	93.930	93.9	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.56e6	1.52e6	0.52	NO	1.07	34.01	34.01	NO	1.009	1.009	96.429	96.4	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.25e6	1.52e6	0.52	NO	0.922	34.91	34.89	NO	1.036	1.035	89.095	89.1	NO

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-2.qld

Last Altered: Monday, February 24, 2020 08:41:22 Pacific Standard Time

Printed: Monday, February 24, 2020 08:41:50 Pacific Standard Time

Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.15e6	1.52e6	0.45	NO	0.767	36.67	36.63	NO	1.088	1.087	98.884	98.9	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.53e5	1.52e6	0.43	NO	0.552	38.69	38.68	NO	1.148	1.148	89.675	89.7	NO
34	34 13C-OCDF	2.08e6	1.52e6	0.86	NO	0.789	41.28	41.33	NO	1.225	1.226	173.06	86.5	NO
35	35 37Cl-2,3,7,8-TCDD	2.02e5	1.87e6			1.18	25.71	25.74	NO	1.027	1.028	9.1713	91.7	NO
36	36 13C-1,2,3,4-TCDD	1.87e6	1.87e6	0.79	NO	1.00	25.11	25.03	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.62e6	2.62e6	0.78	NO	1.00	23.37	23.27	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.52e6	1.52e6	0.52	NO	1.00	33.71	33.70	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		2.17e6			0.988	24.62		NO	0.000		80.185		NO
40	40 Total Penta-Dioxins		1.61e6			0.972	29.96		NO	0.000		195.95		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		245.36		NO
42	42 Total Hepta-Dioxins		9.28e5			0.923	37.64		NO	0.000		138.23		NO
43	43 Total Tetra-Furans		2.72e6			0.802	23.61		NO	0.000		52.177		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000		99.008		NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		172.47		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		317.58		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		108.86		NO

Dataset: U:\VG12.PRO\Results\200223R2\200223R2-CPSM.qld

Last Altered: Sunday, February 23, 2020 14:54:49 Pacific Standard Time

Printed: Sunday, February 23, 2020 14:55:24 Pacific Standard Time

Method: Untitled 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.57
2	1,2,8,9-TCDD (Last)	26.72
3	1,2,4,7,9-PeCDD (First)	28.56
4	1,2,3,8,9-PeCDD (Last)	31.20
5	1,2,4,6,7,9-HxCDD (First)	32.72
6	1,2,3,7,8,9-HxCDD (Last)	34.56
7	1,2,3,4,6,7,9-HpCDD (First)	37.02
8	1,2,3,4,6,7,8-HpCDD (Last)	38.06
9	1,3,6,8-TCDF (First)	19.52
10	1,2,8,9-TCDF (Last)	26.87
11	1,3,4,6,8-PeCDF (First)	26.86
12	1,2,3,8,9-PeCDF (Last)	31.45
13	1,2,3,4,6,8-HxCDF (First)	32.17
14	1,2,3,7,8,9-HxCDF (Last)	34.90
15	1,2,3,4,6,7,8-HpCDF (First)	36.64
16	1,2,3,4,7,8,9-HpCDF (Last)	38.71

Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:44:45 Pacific Standard Time
Printed: Monday, February 24, 2020 08:44:48 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

	Name	ID	Acq.Date	Acq.Time
1	200223R2_1	(A) ST200223R1_1 1613 CS3 19L2305	23-Feb-20	12:25:17
2	200223R2_2	(B) ST200223R2_2 1613 CS3 19L2305	23-Feb-20	13:15:55
3	200223R2_3	B0B0071-BS1 OPR 10	23-Feb-20	14:03:15
4	200223R2_4	B0B0026-BS1 OPR 10	23-Feb-20	14:51:01
5	200223R2_5	SOLVENT BLANK	23-Feb-20	15:37:24
6	200223R2_6	B0B0071-BLK1 Method Blank 10	23-Feb-20	16:24:49
7	200223R2_7	B0B0026-BLK1 Method Blank 10	23-Feb-20	17:12:06
8	200223R2_8	B0B0013-BLK1 Method Blank 10	23-Feb-20	17:59:22
9	200223R2_9	1903654-05RE1 PDI-075SC-B-00-02-191013 ...	23-Feb-20	18:46:49
10	200223R2_10	1903826-01RE1 PDI-034SC-B-00-02-191022 ...	23-Feb-20	19:34:13
11	200223R2_11	1903740-02RE1 PDI-031SC-B-02-04-191017 ...	23-Feb-20	20:21:37
12	200223R2_12	1903736-01RE1 PDI-026SC-B-00-02-191014 ...	23-Feb-20	21:09:03
13	200223R2_13	1904161-16RE3@2X PDI-066SC-A-06-07-191...	23-Feb-20	21:56:19
14	200223R2_14	1903827-05RE1@5X PDI-062SC-B-00-02-191...	23-Feb-20	22:43:37
15	200223R2_15	1903654-08RE1@5X PDI-075SC-B-06-08-191...	23-Feb-20	23:31:03
16	200223R2_16	1903654-11RE1@5X PDI-076SC-B-05-07-191...	24-Feb-20	00:18:28

(A) USED TO ADJUST WINDOWS

(B) USED FOR SEQUENCE

GRB 02/24/2020

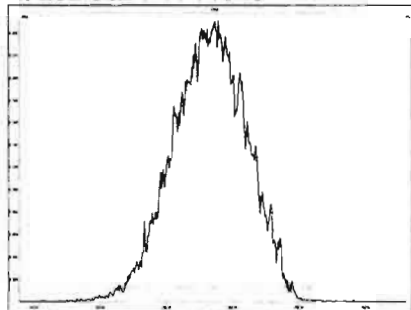
Experiment Calibration Report

MassLynx 4.1 SCN815

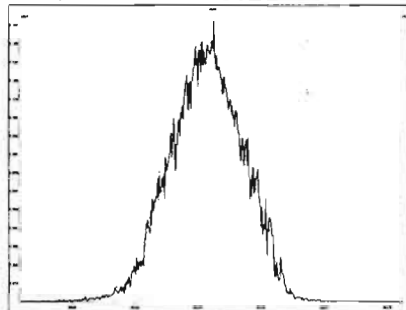
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Sunday, February 23, 2020 11:29:41 Pacific Standard Time

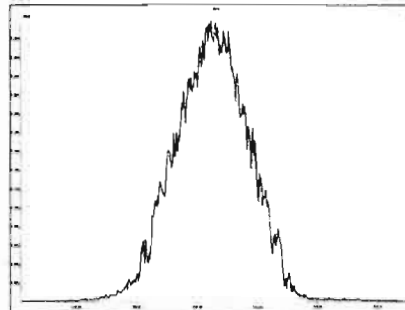
M 292.9824 R 11845



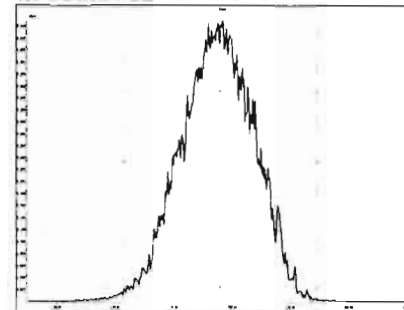
M 304.9824 R 11962



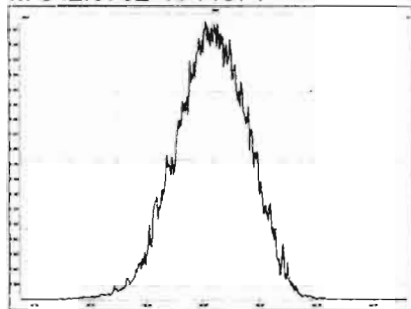
M 318.9792 R 12134



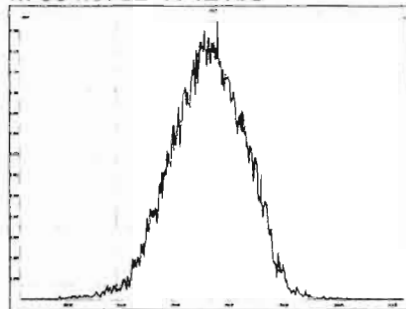
M 330.9792 R 11845



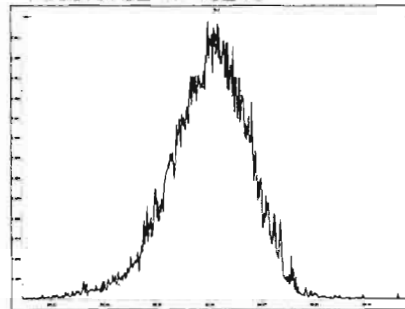
M 342.9792 R 11574



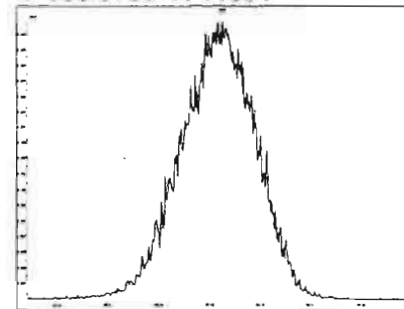
M 354.9792 R 12198



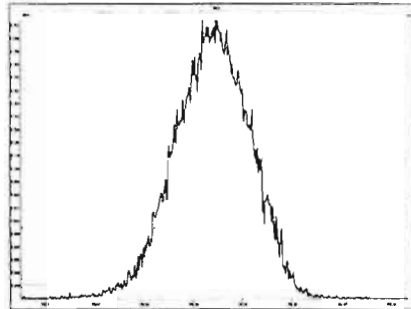
M 366.9792 R 10246



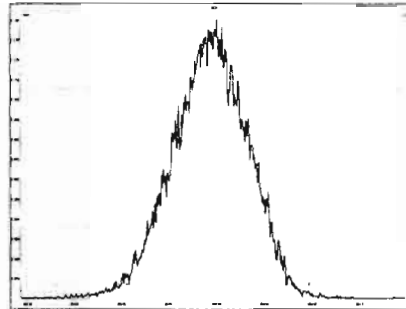
M 380.9760 R 11061



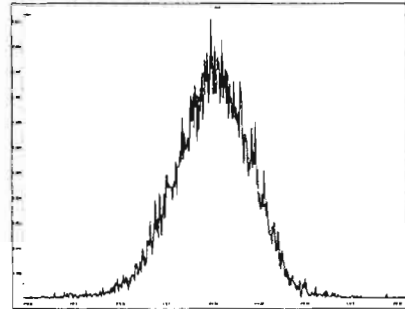
M 392.9760 R 11465



M 404.9760 R 11161



M 416.9760 R 11471



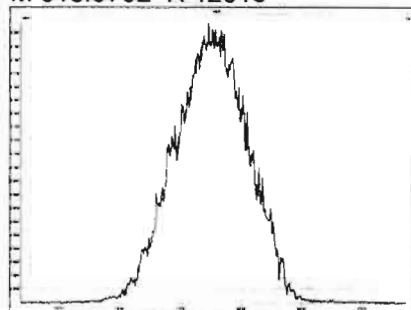
Experiment Calibration Report

MassLynx 4.1 SCN815

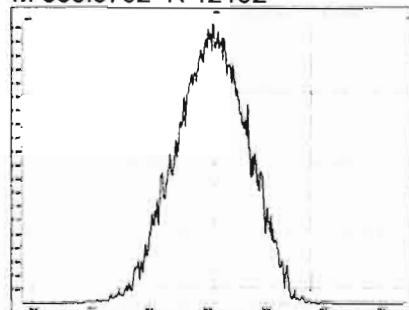
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Sunday, February 23, 2020 11:30:52 Pacific Standard Time

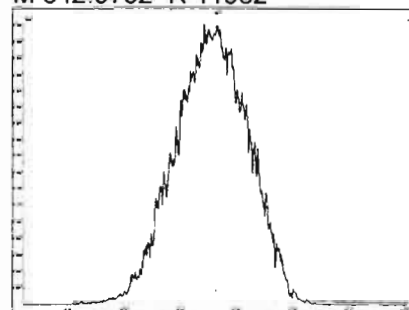
M 318.9792 R 12018



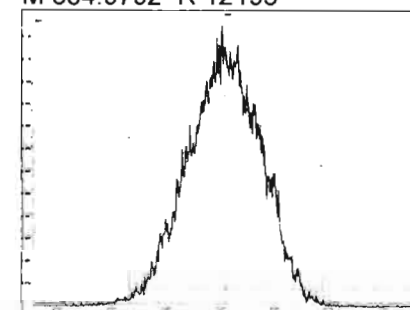
M 330.9792 R 12192



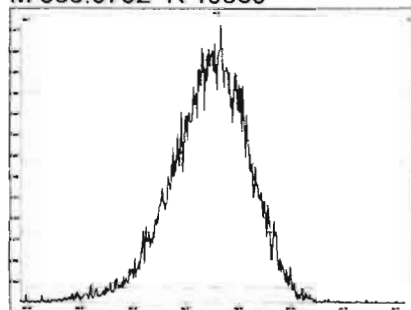
M 342.9792 R 11962



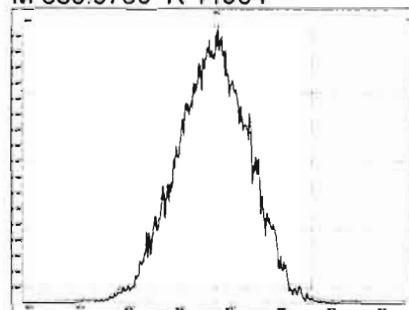
M 354.9792 R 12193



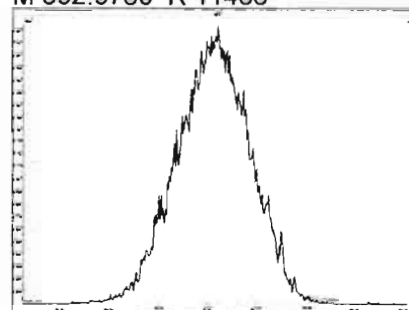
M 366.9792 R 10680



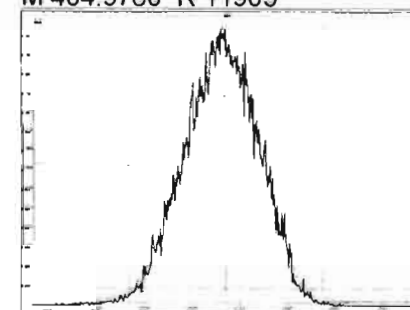
M 380.9760 R 11904



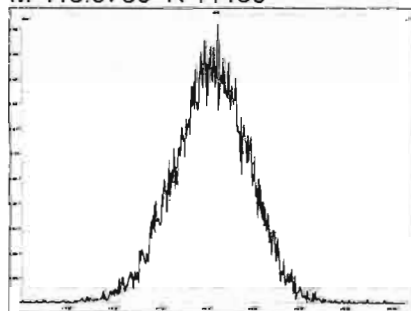
M 392.9760 R 11466



M 404.9760 R 11905



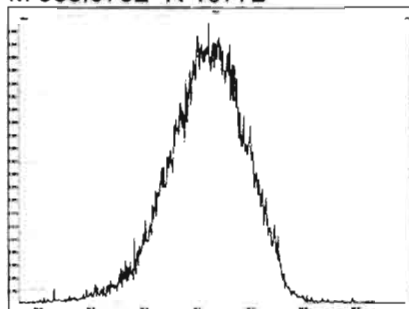
M 416.9760 R 11160



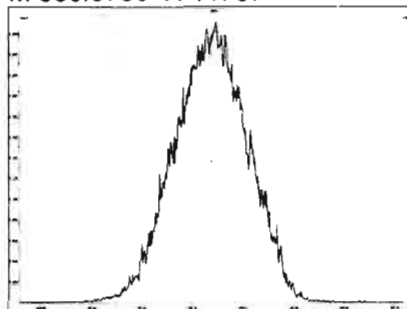
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Sunday, February 23, 2020 11:31:30 Pacific Standard Time

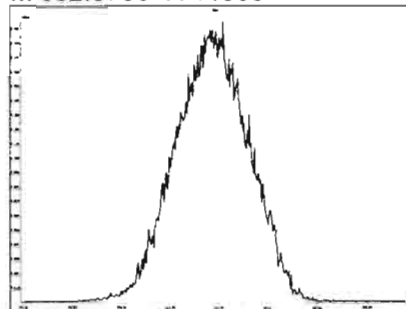
M 366.9792 R 10772



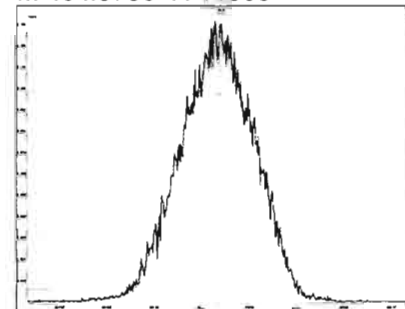
M 380.9760 R 11737



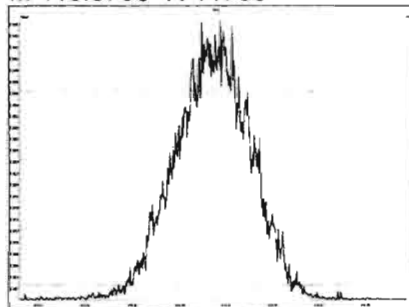
M 392.9760 R 11903



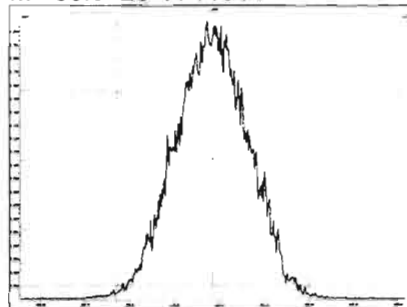
M 404.9760 R 11683



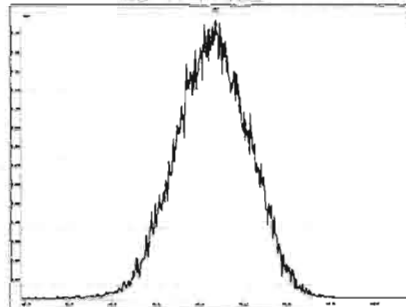
M 416.9760 R 11736



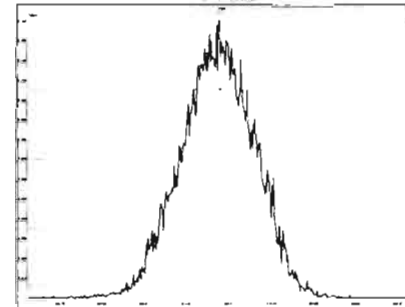
M 430.9728 R 11314



M 442.9728 R 11682



M 454.9728 R 11681



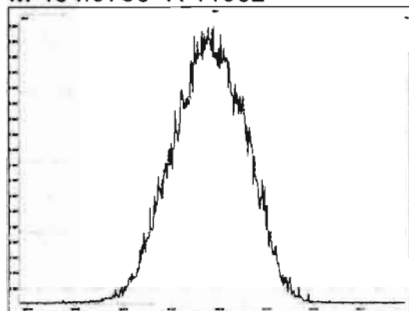
Experiment Calibration Report

MassLynx 4.1 SCN815

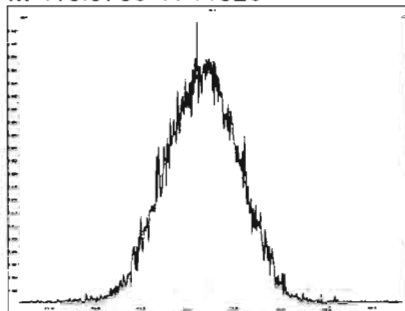
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Sunday, February 23, 2020 11:31:56 Pacific Standard Time

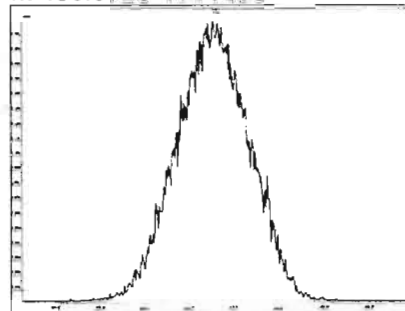
M 404.9760 R 11902



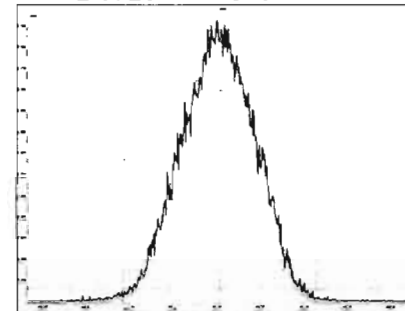
M 416.9760 R 11520



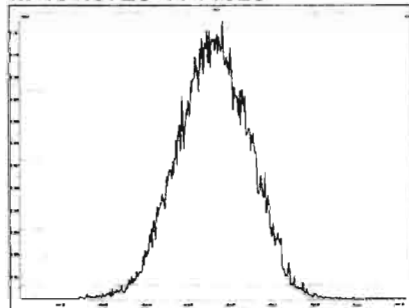
M 430.9728 R 11466



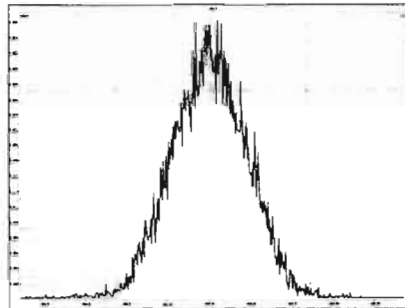
M 442.9728 R 11518



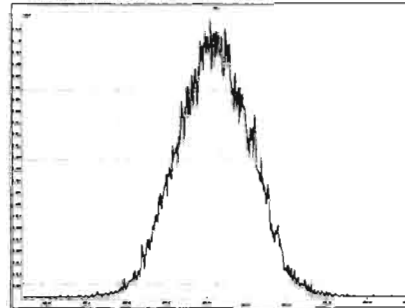
M 454.9728 R 11520



M 466.9728 R 12079



M 480.9696 R 11468



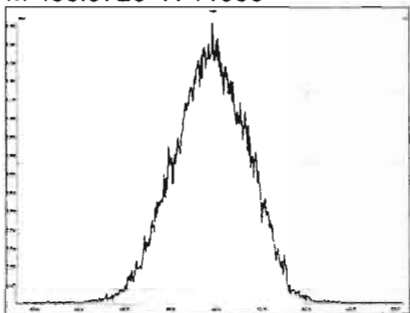
Experiment Calibration Report

MassLynx 4.1 SCN815

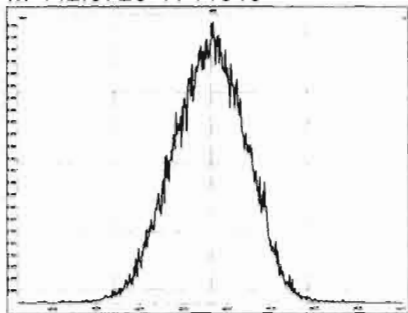
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Sunday, February 23, 2020 11:32:34 Pacific Standard Time

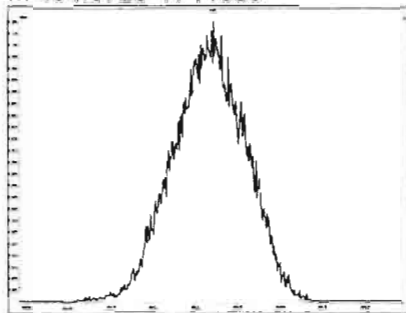
M 430.9728 R 11905



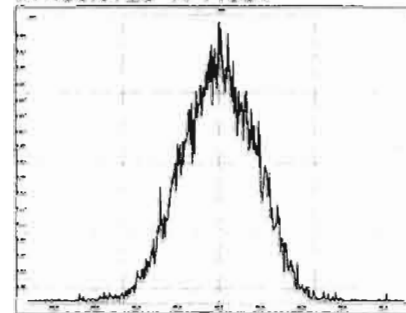
M 442.9728 R 11519



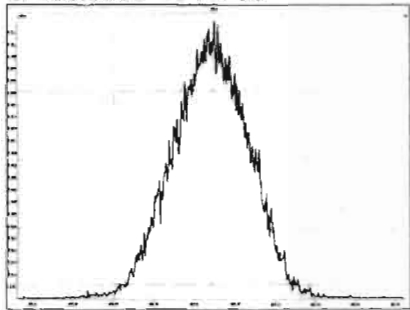
M 454.9728 R 11683



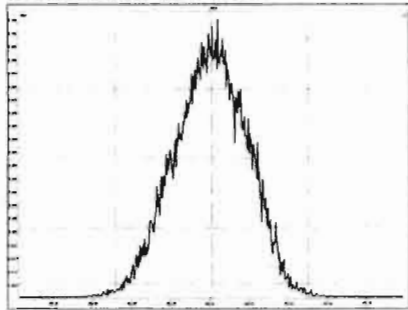
M 466.9728 R 11904



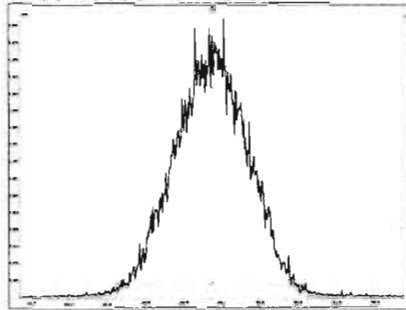
M 480.9696 R 11736



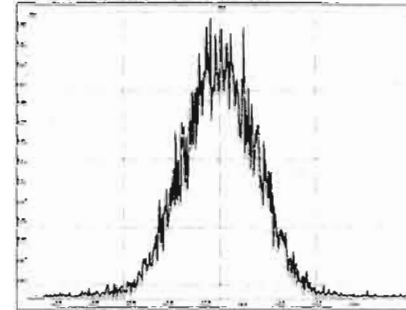
M 492.9696 R 11790



M 504.9696 R 11848



M 516.9697 R 11519



Dataset: U:\VG12.PRO\Results\200223R2\200223R2-CPSM.qld

Last Altered: Sunday, February 23, 2020 14:54:49 Pacific Standard Time
Printed: Sunday, February 23, 2020 14:55:24 Pacific Standard Time

GRB 02/24/2020

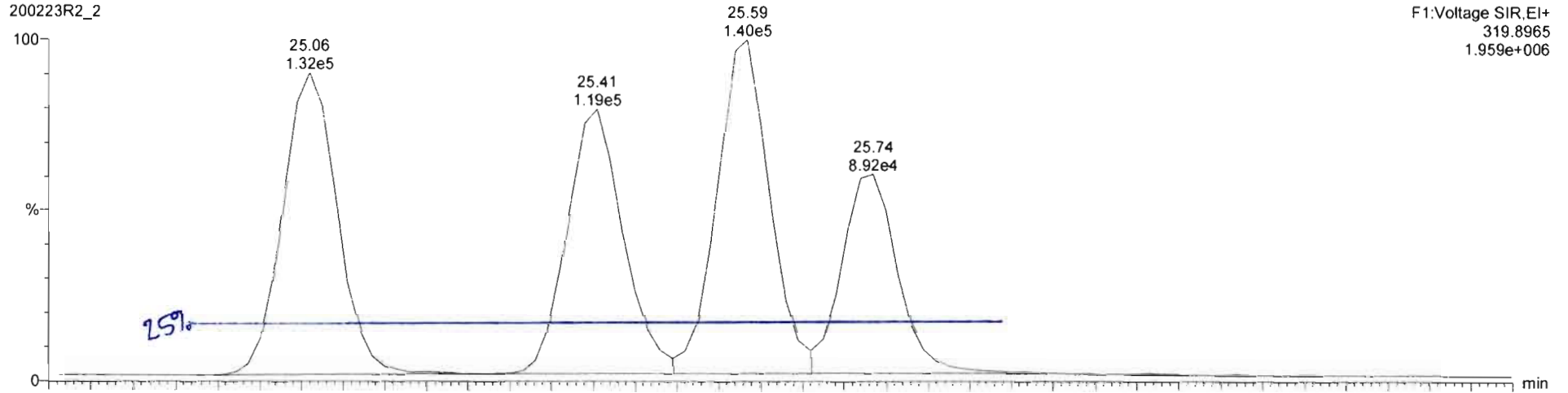
Method: Untitled 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

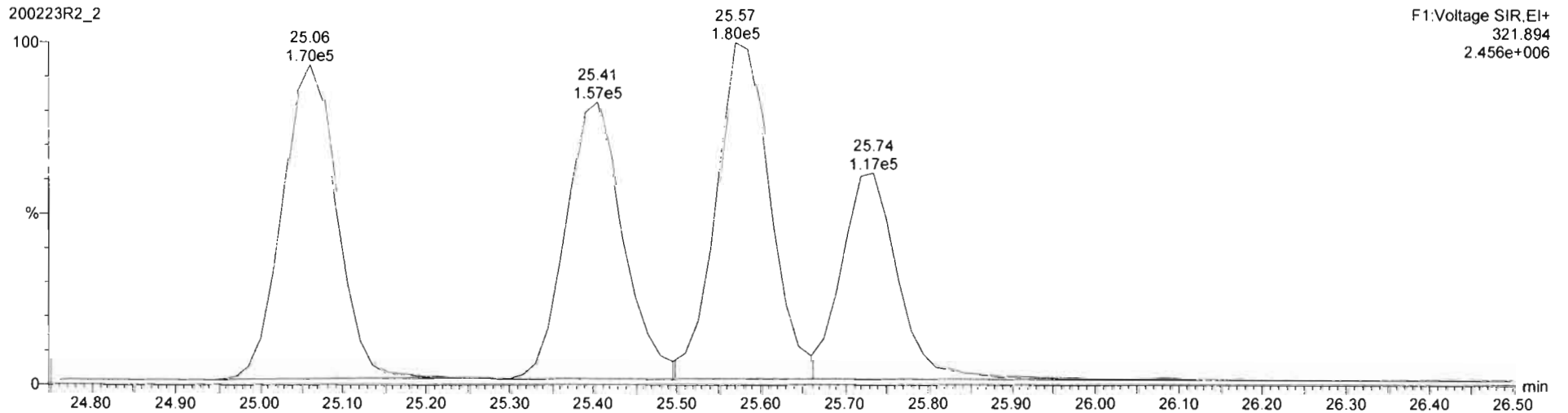
Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200223R2_2



200223R2_2



Dataset: Untitled

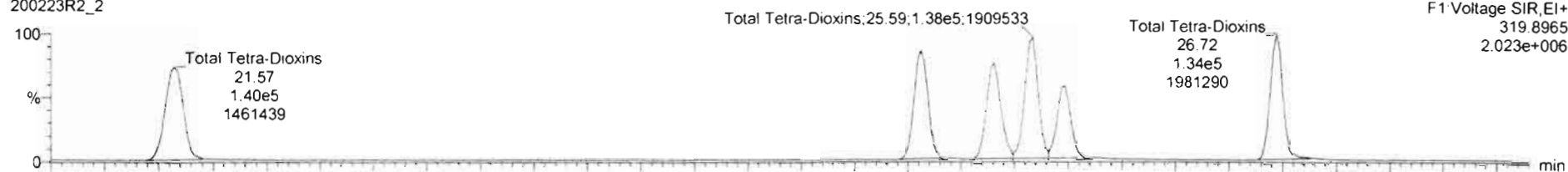
Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time
Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

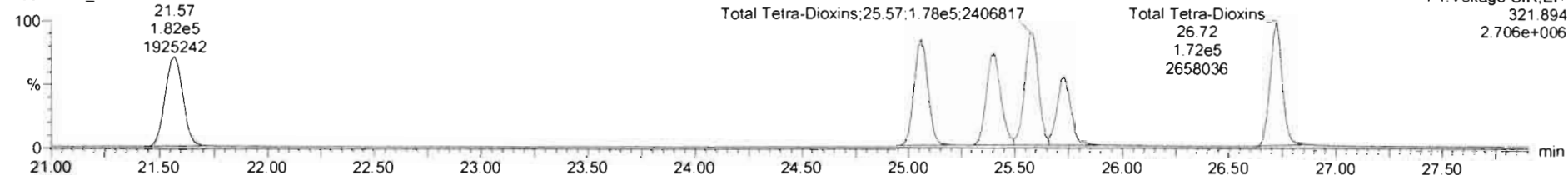
Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200223R2_2

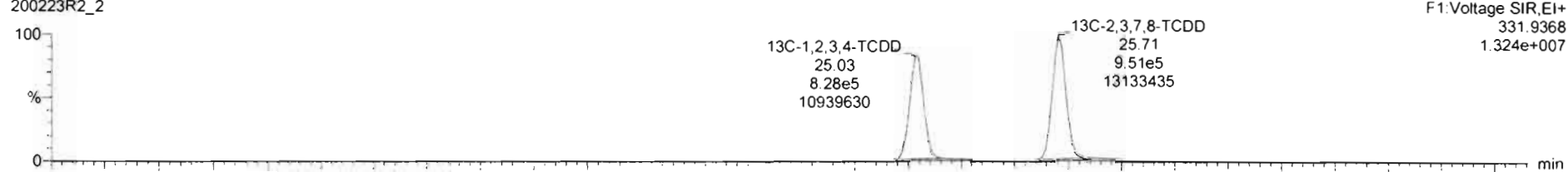


200223R2_2 Total Tetra-Dioxins

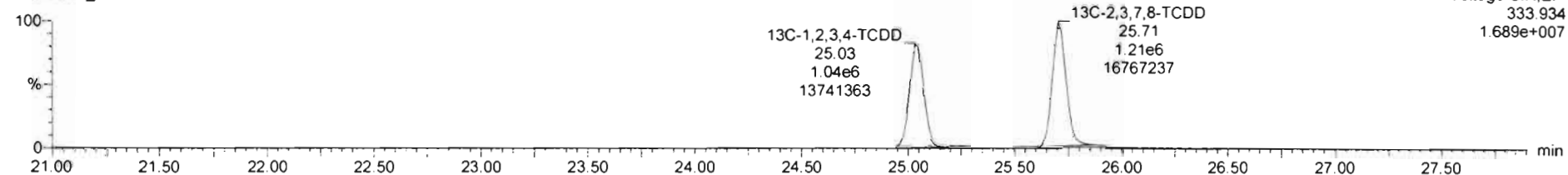


13C-2,3,7,8-TCDD

200223R2_2



200223R2_2



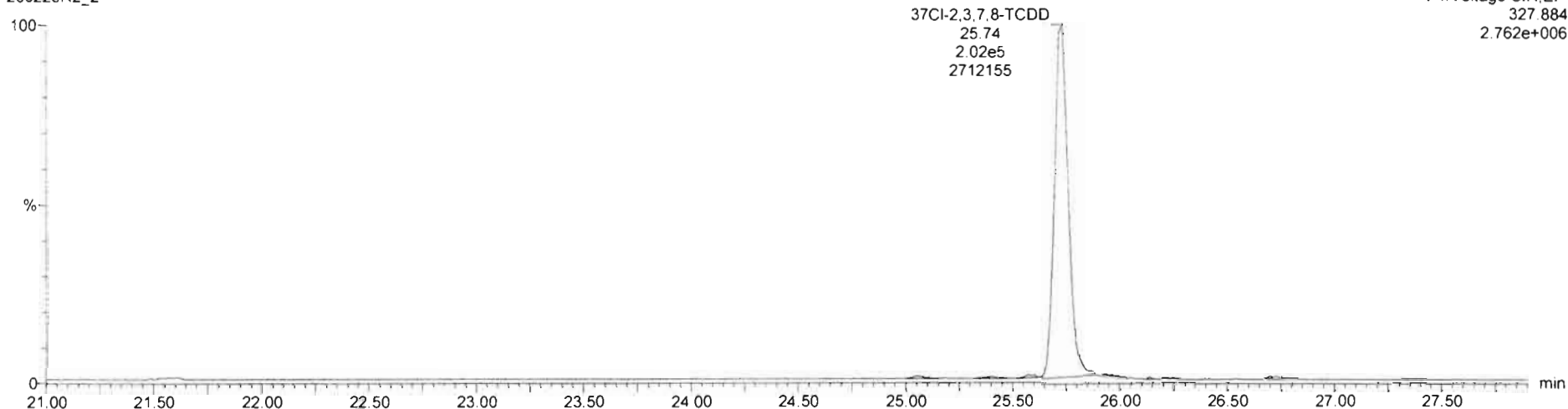
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time
Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

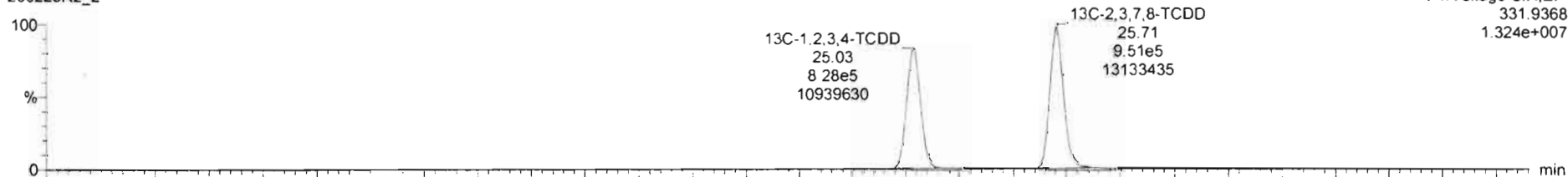
37Cl-2,3,7,8-TCDD

200223R2_2

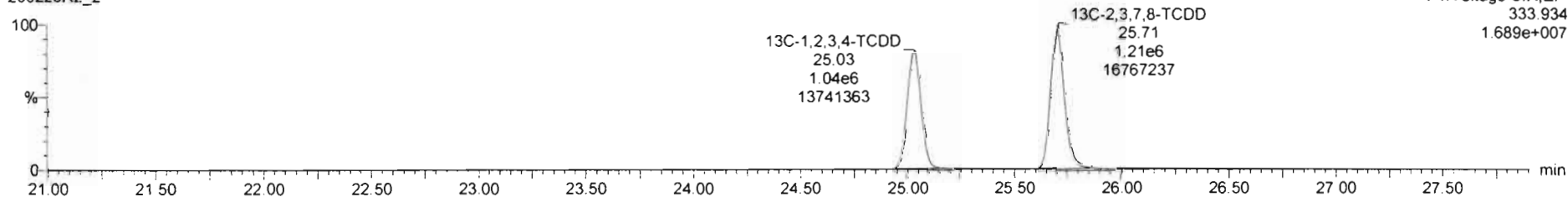


13C-1,2,3,4-TCDD

200223R2_2



200223R2_2



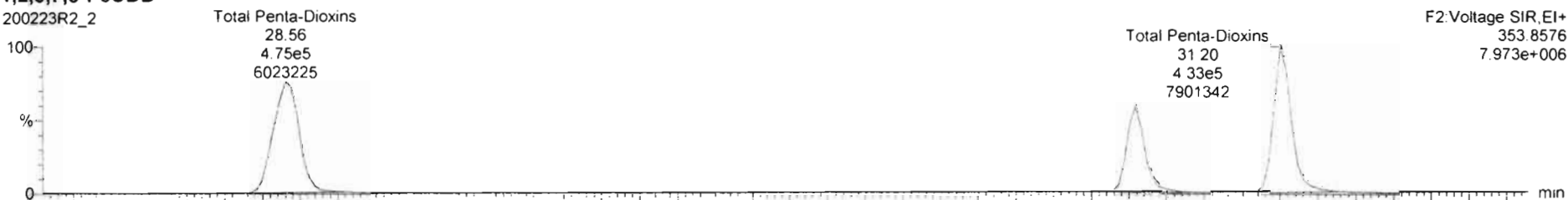
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time
Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

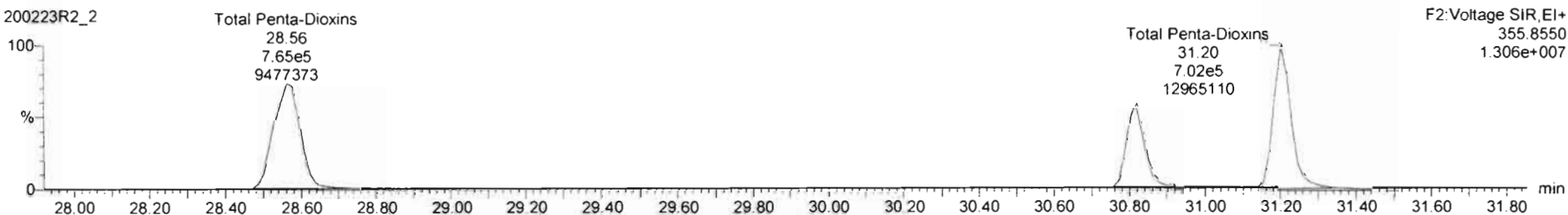
Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200223R2_2

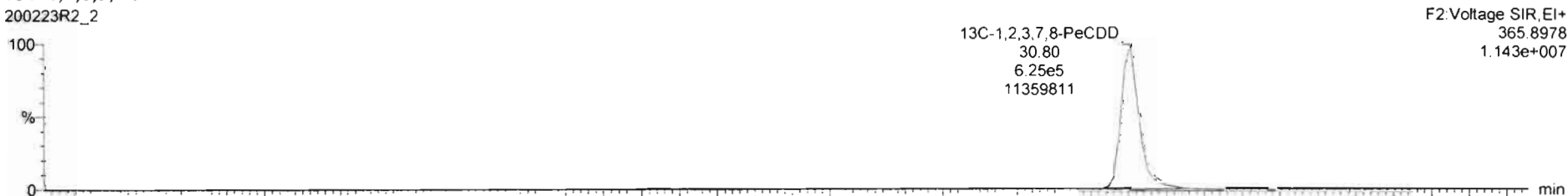


200223R2_2

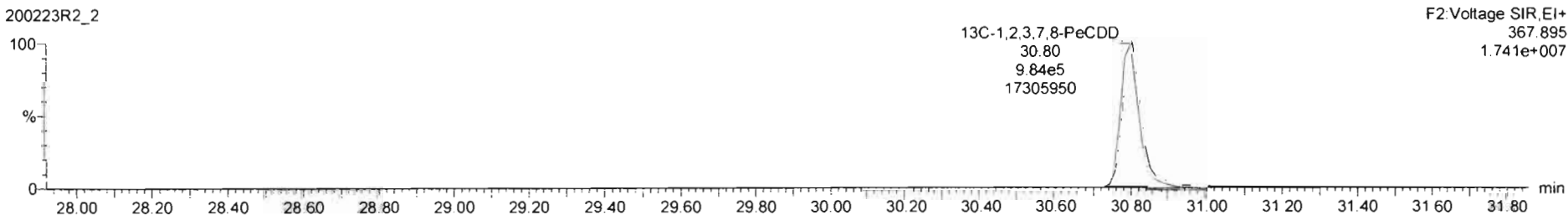


13C-1,2,3,7,8-PeCDD

200223R2_2



200223R2_2



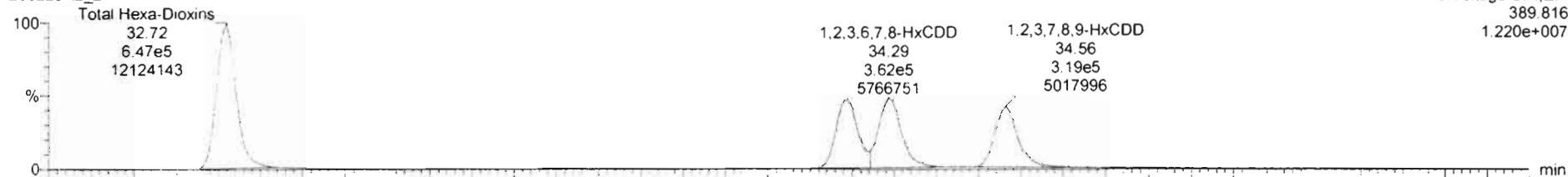
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time
Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

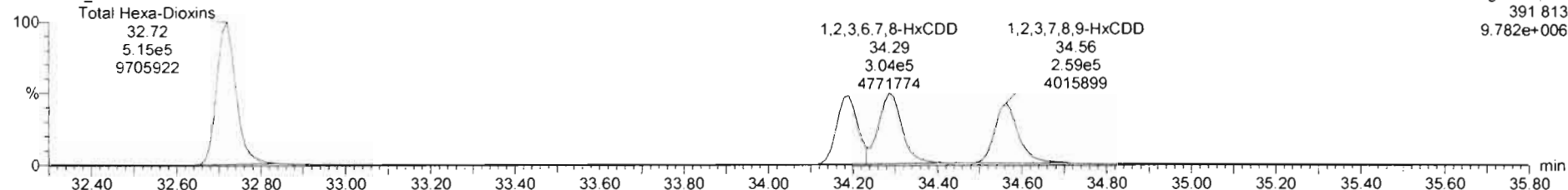
Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200223R2_2

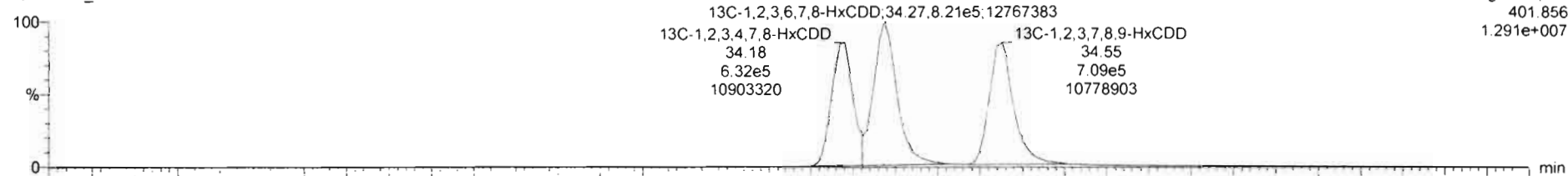


200223R2_2

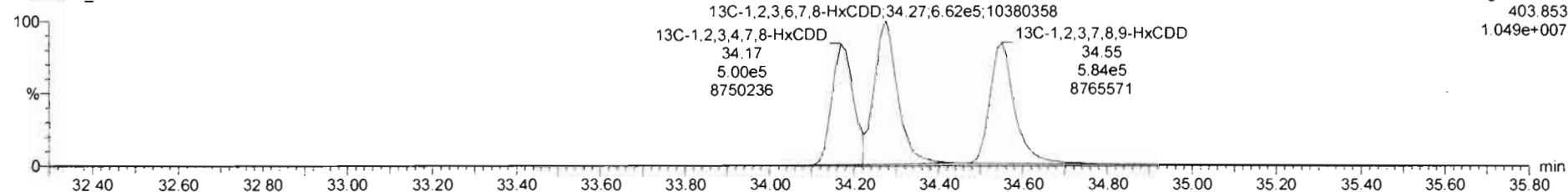


13C-1,2,3,4,7,8-HxCDD

200223R2_2



200223R2_2



Dataset: Untitled

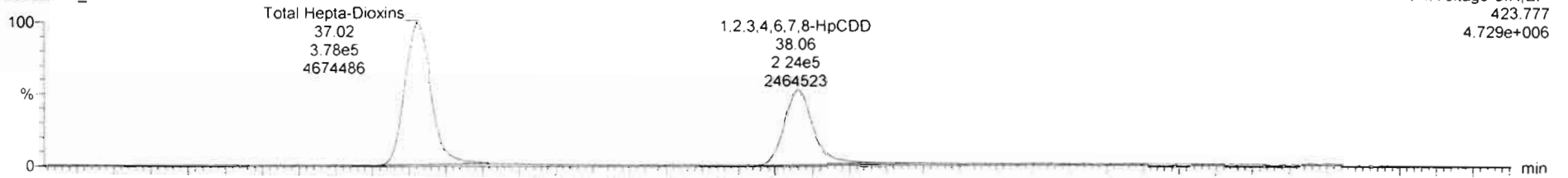
Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time

Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

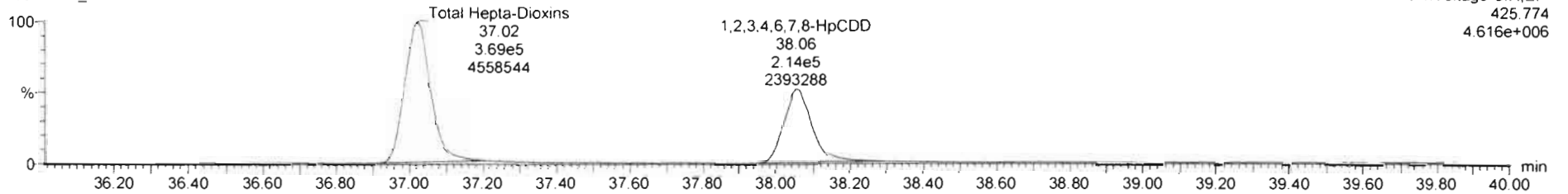
Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200223R2_2

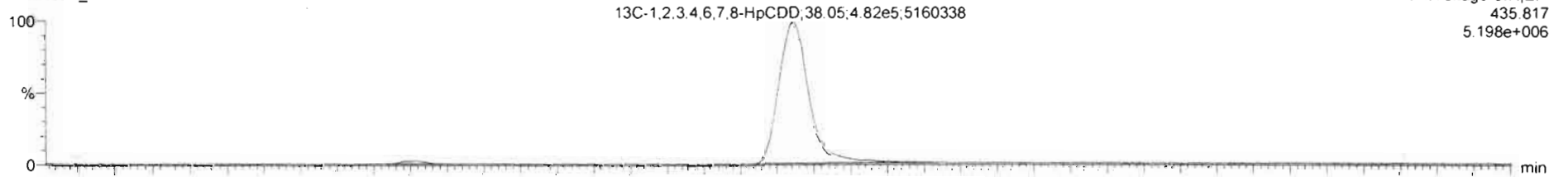


200223R2_2

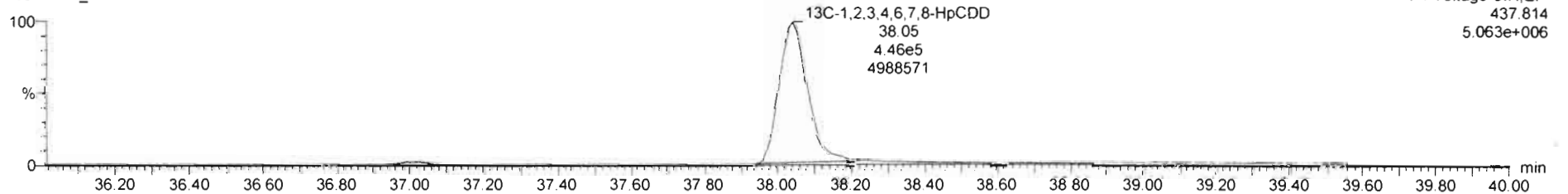


13C-1,2,3,4,6,7,8-HpCDD

200223R2_2



200223R2_2

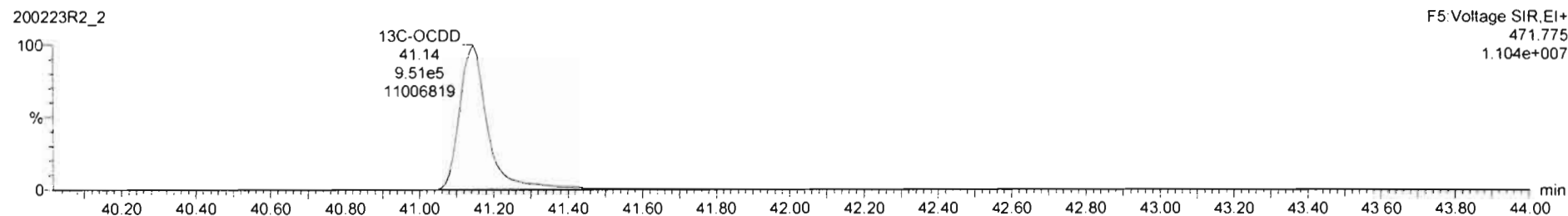
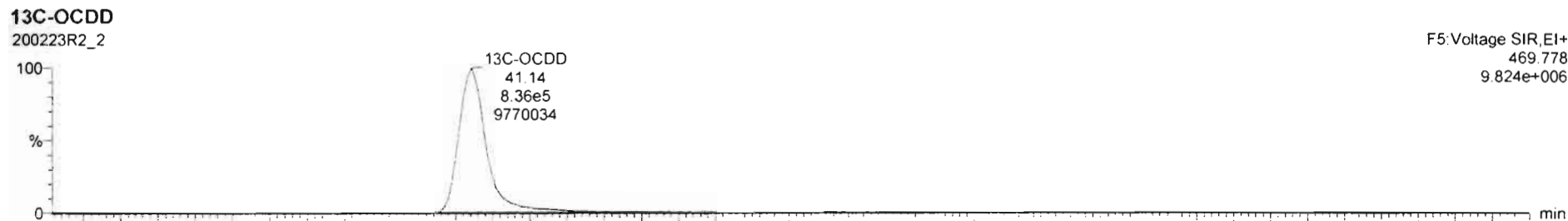
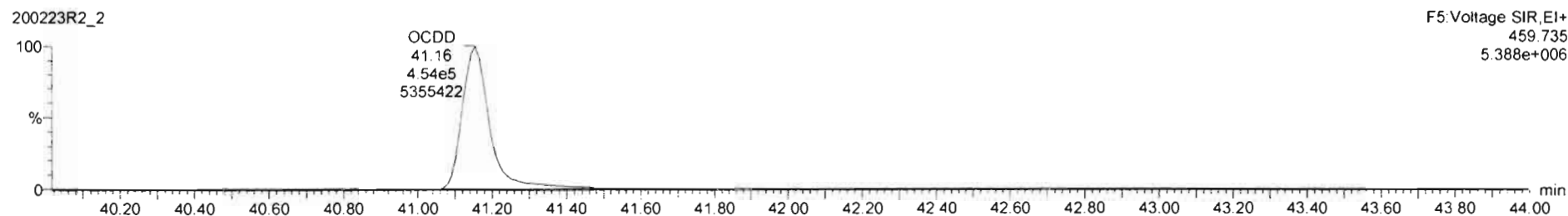
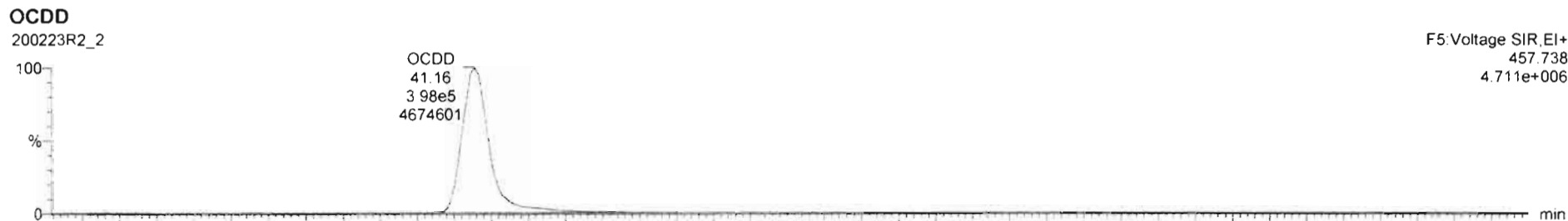


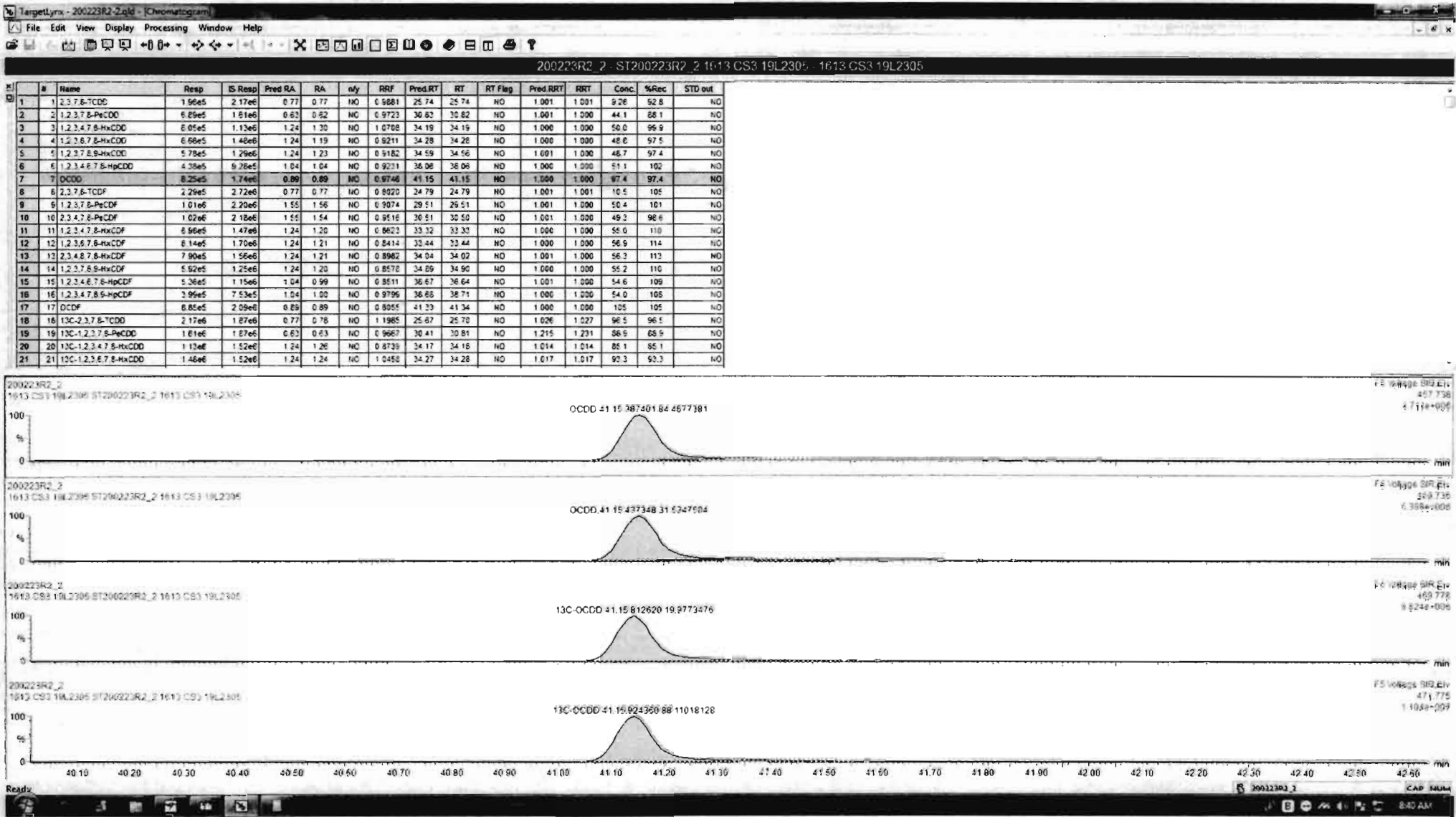
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time

Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305





Dataset: Untitled

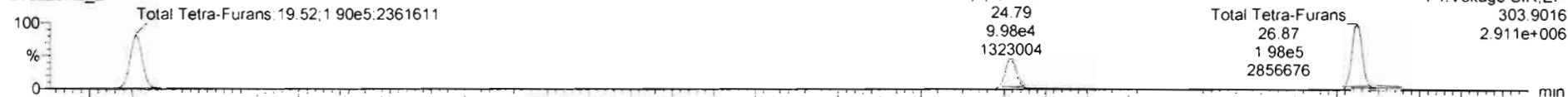
Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time

Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

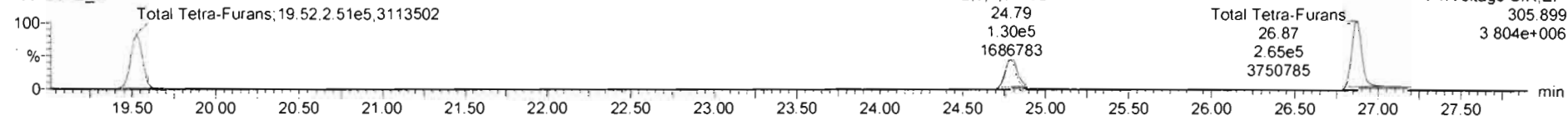
Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200223R2_2

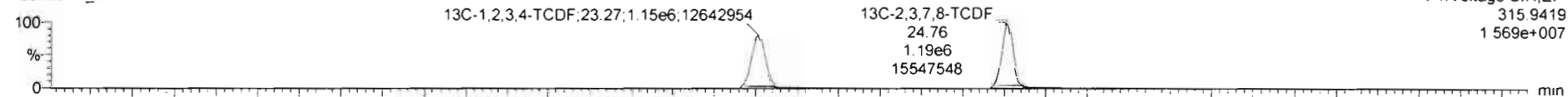


200223R2_2

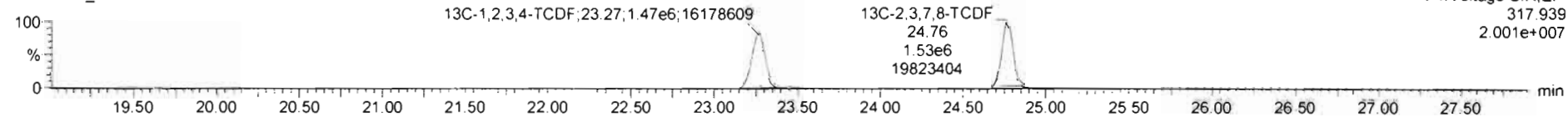


13C-2,3,7,8-TCDF

200223R2_2

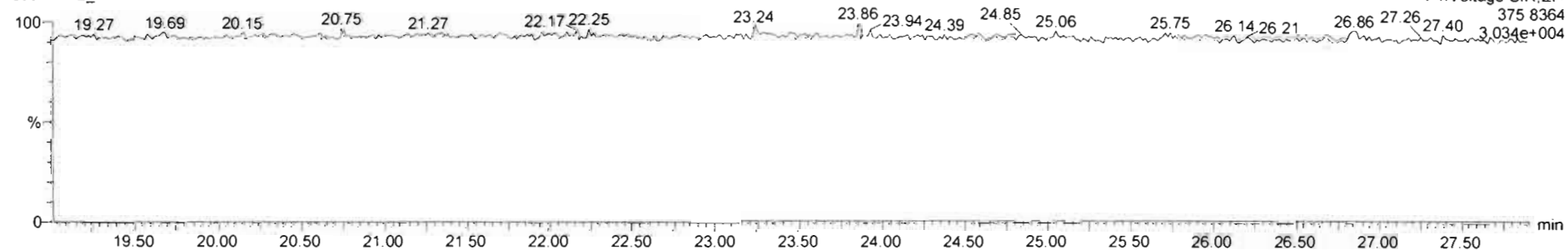


200223R2_2



DPE1

200223R2_2



Dataset: Untitled

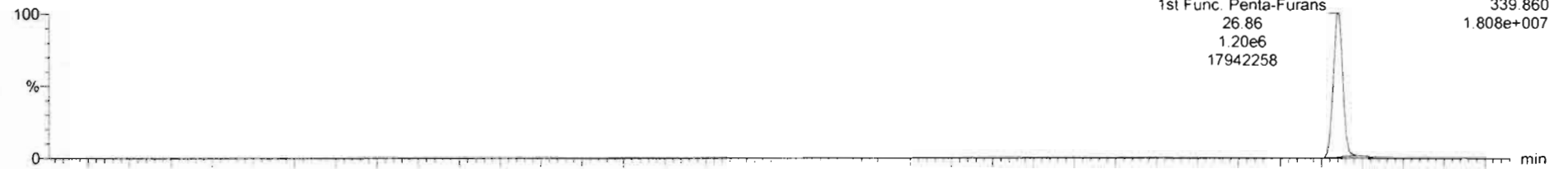
Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time

Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

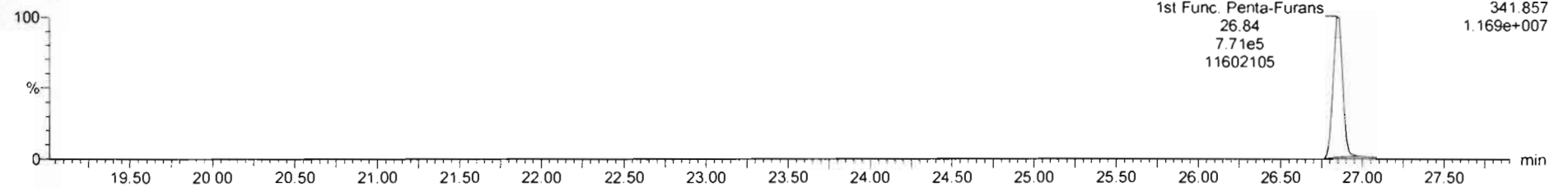
Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200223R2_2

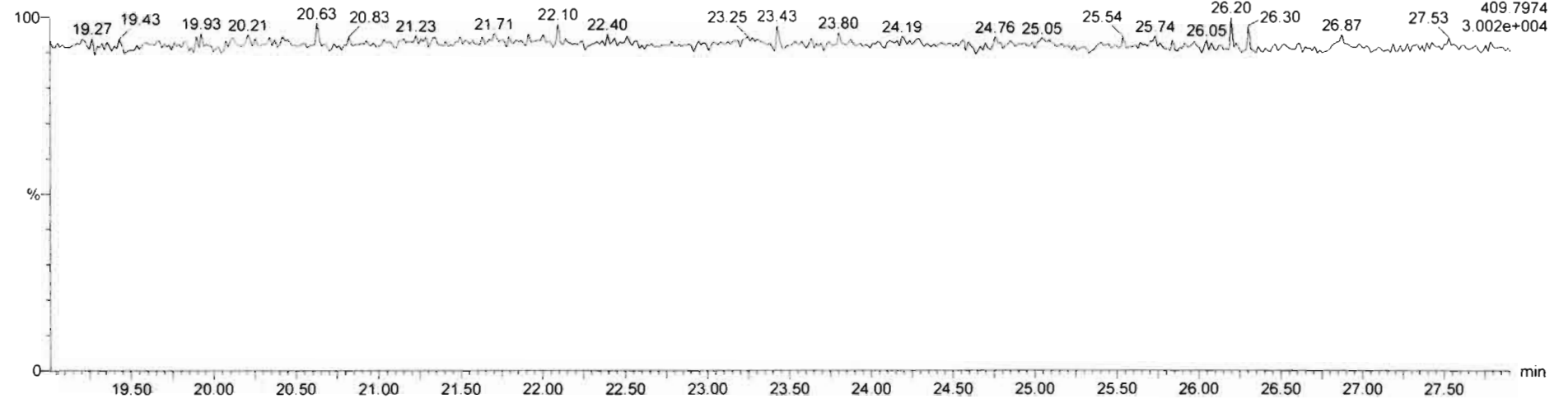


200223R2_2



DPE6

200223R2_2



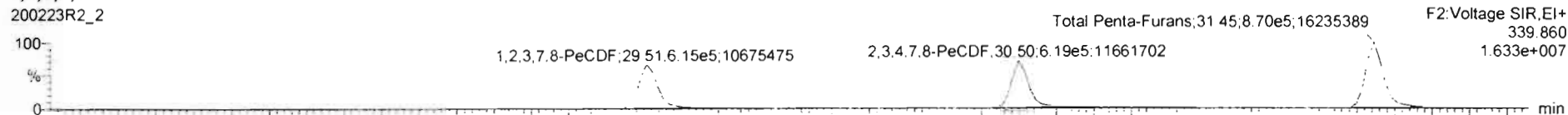
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time
Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

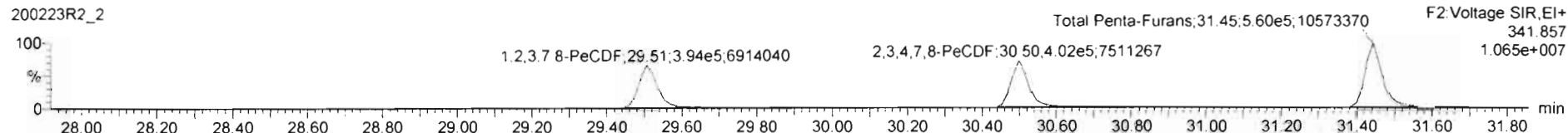
Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDF

200223R2_2

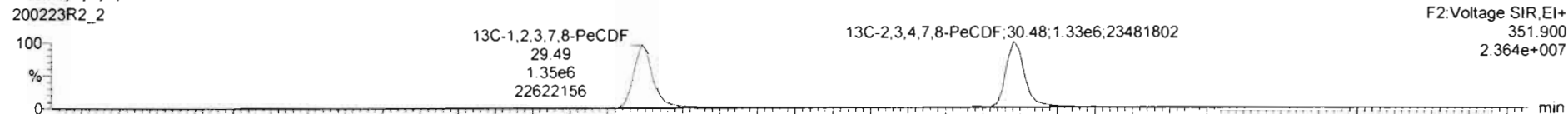


200223R2_2

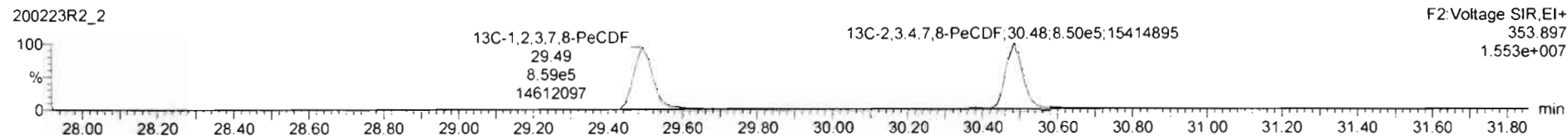


13C-1,2,3,7,8-PeCDF

200223R2_2

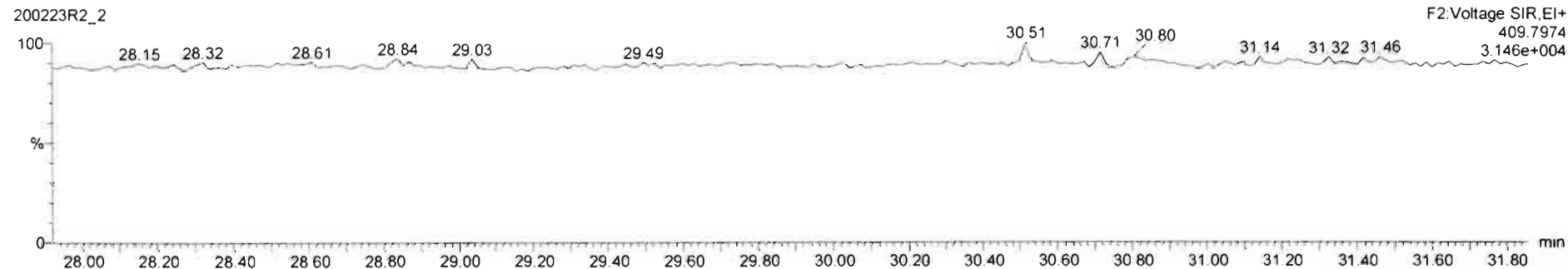


200223R2_2



DPE2

200223R2_2



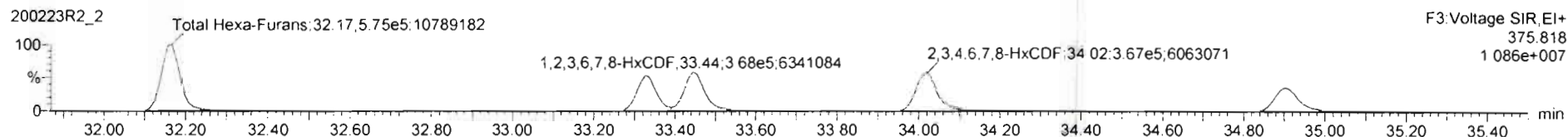
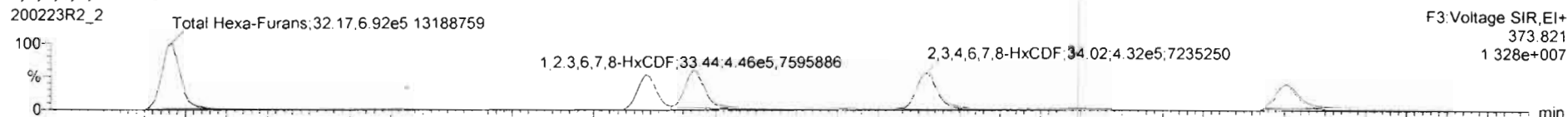
Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time

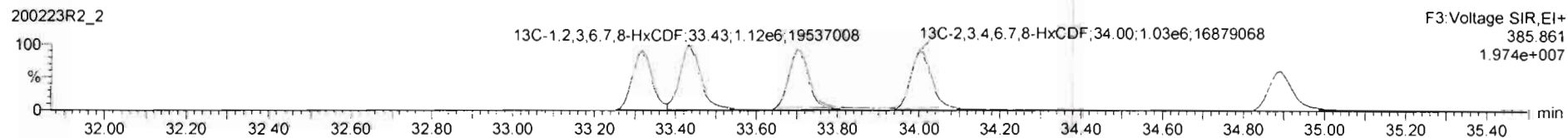
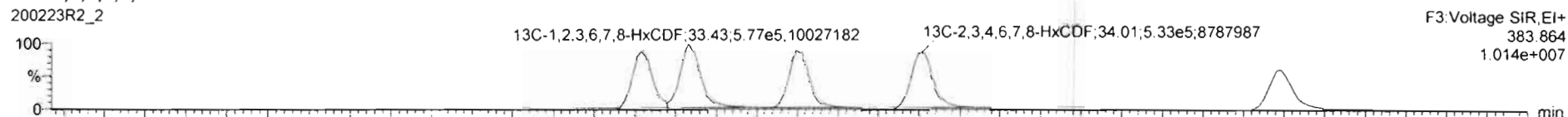
Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

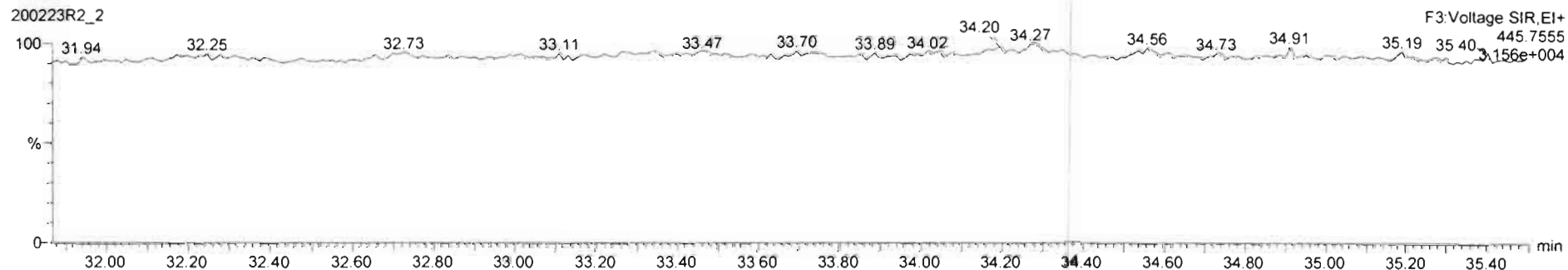
1,2,3,4,7,8-HxCDF



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



DPE3

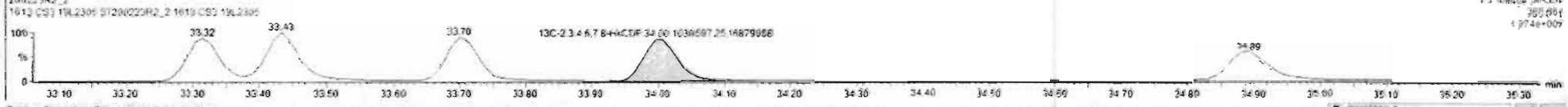
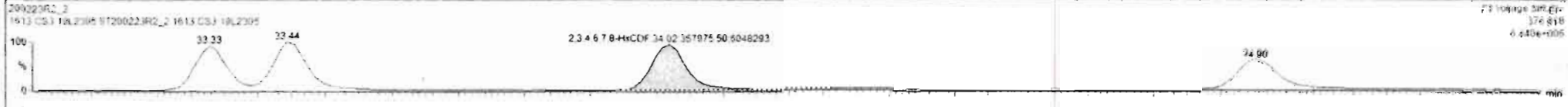


TargetLynx - 200223R2_2.qtd - [Chromatogram]

File Edit View Display Processing Window Help

200223R2_2 - ST200223R2_2 1613 CS3 19L2305 1613 CS3 19L2305

#	#	Name	Resp	S Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1	2,3,7,8-TCDD	1.96e5	2.17e6	0.77	0.77	NO	0.9881	25.74	25.74	NO	1.001	1.001	9.26	52.8	NO
2	2	1,2,3,7,8-PeCDD	6.69e5	1.61e6	0.63	0.62	NO	0.9723	30.83	30.82	NO	1.001	1.000	44.1	26.1	NO
3	3	1,2,3,4,7,8-HxCDD	6.05e5	1.12e6	1.24	1.30	NO	1.0705	34.19	34.19	NO	1.000	1.000	56.0	99.9	NO
4	4	1,2,3,6,7,8-HxCDD	6.66e5	1.48e6	1.24	1.19	NO	0.9211	34.28	34.28	NO	1.000	1.000	48.6	97.5	NO
5	5	1,2,3,7,8,9-HxCDD	5.78e5	1.29e6	1.24	1.23	NO	0.9182	34.59	34.56	NO	1.001	1.000	48.7	97.4	NO
6	6	1,2,3,4,6,7,8-HpCDD	4.38e5	9.28e5	1.04	1.04	NO	0.9231	38.06	38.06	NO	1.000	1.000	51.1	102	NO
7	7	OCDD	6.25e5	1.74e6	0.89	0.89	NO	0.9748	41.15	41.15	NO	1.000	1.000	97.4	97.4	NO
8	8	2,3,7,8-TCDF	2.29e5	2.72e6	0.77	0.77	NO	0.8920	24.79	24.79	NO	1.001	1.001	10.5	105	NO
9	9	1,2,3,7,8-PeCDF	1.01e5	2.29e6	1.55	1.56	NO	0.9974	29.51	29.51	NO	1.001	1.000	50.4	101	NO
10	10	2,3,4,7,8-PeCDF	1.02e5	2.18e6	1.55	1.54	NO	0.9516	30.51	30.50	NO	1.001	1.000	45.3	96.6	NO
11	11	1,2,3,4,7,8-HxCDF	6.96e5	1.47e6	1.24	1.20	NO	0.9622	33.32	33.32	NO	1.000	1.000	55.0	110	NO
12	12	1,2,3,6,7,8-HxCDF	6.14e5	1.70e6	1.24	1.21	NO	0.8414	33.44	33.44	NO	1.000	1.000	56.9	114	NO
13	13	2,3,4,6,7,8-HxCDF	7.90e5	1.56e6	1.24	1.21	NO	0.8962	34.04	34.02	NO	1.001	1.000	56.3	113	NO
14	14	1,2,3,7,8,9-HxCDF	5.92e5	1.25e6	1.24	1.20	NO	0.8578	34.89	34.90	NO	1.000	1.000	55.2	110	NO
15	15	1,2,3,4,6,7,8-HpCDF	5.36e5	1.15e6	1.04	0.99	NO	0.8511	36.67	36.64	NO	1.001	1.000	54.6	109	NO
16	16	1,2,3,4,7,8,9-HpCDF	3.99e5	7.53e5	1.04	1.00	NO	0.9796	36.68	36.71	NO	1.000	1.000	54.6	108	NO
17	17	OCDF	8.65e5	2.09e6	0.89	0.89	NO	0.8055	41.33	41.34	NO	1.000	1.000	105	105	NO
18	18	13C-2,3,7,8-TCDD	2.17e6	1.87e6	0.77	0.78	NO	1.1985	25.67	25.70	NO	1.026	1.027	96.5	96.5	NO
19	19	13C-1,2,3,7,8-PeCDD	1.61e6	1.67e6	0.63	0.63	NO	0.9667	30.41	30.81	NO	1.215	1.231	88.9	88.9	NO
20	20	13C-1,2,3,4,7,8-HxCDD	1.13e6	1.52e6	1.24	1.26	NO	0.8735	34.17	34.15	NO	1.014	1.014	85.1	85.1	NO
21	21	13C-1,2,3,6,7,8-HxCDD	1.48e6	1.52e6	1.24	1.24	NO	1.0458	34.27	34.28	NO	1.017	1.017	92.3	92.3	NO



Custom Reporting: Select reports to generate

200223R2_2 CAP NUM

8:40 AM

Dataset: Untitled

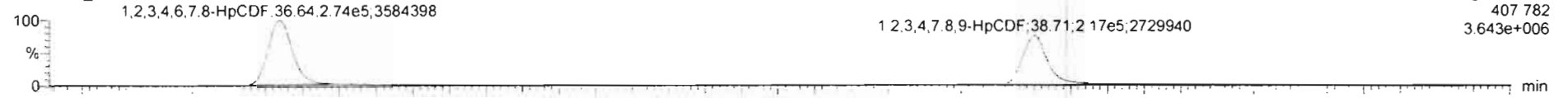
Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time

Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

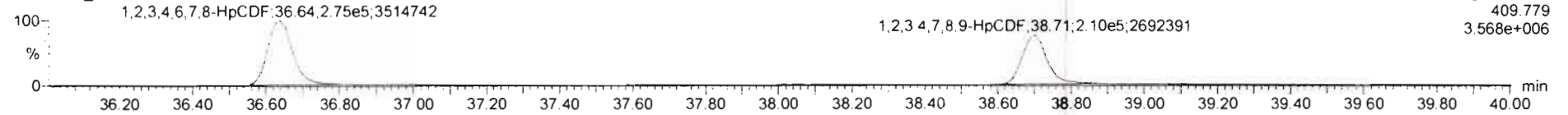
Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200223R2_2

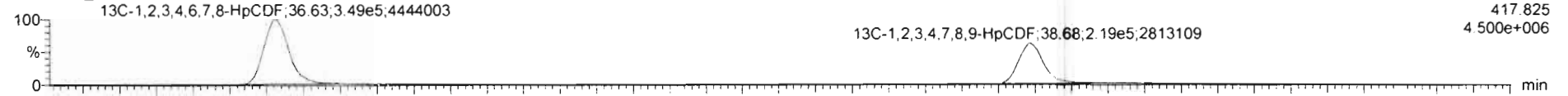


200223R2_2

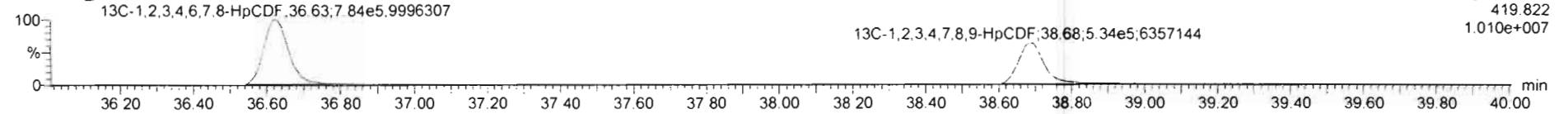


13C-1,2,3,4,6,7,8-HpCDF

200223R2_2

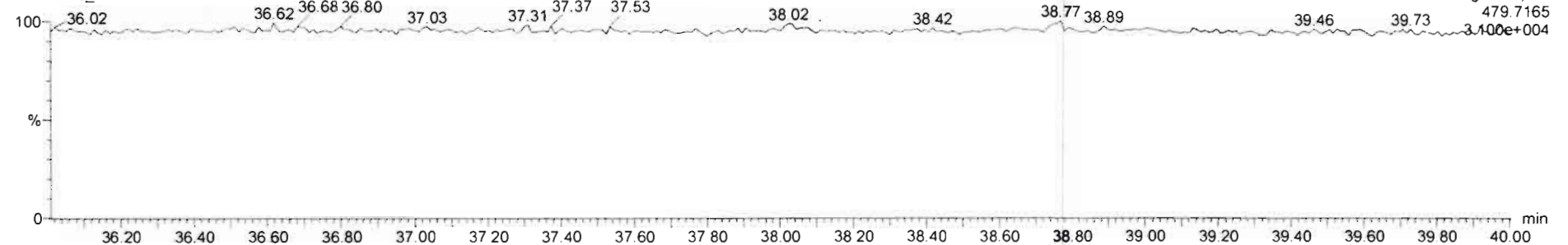


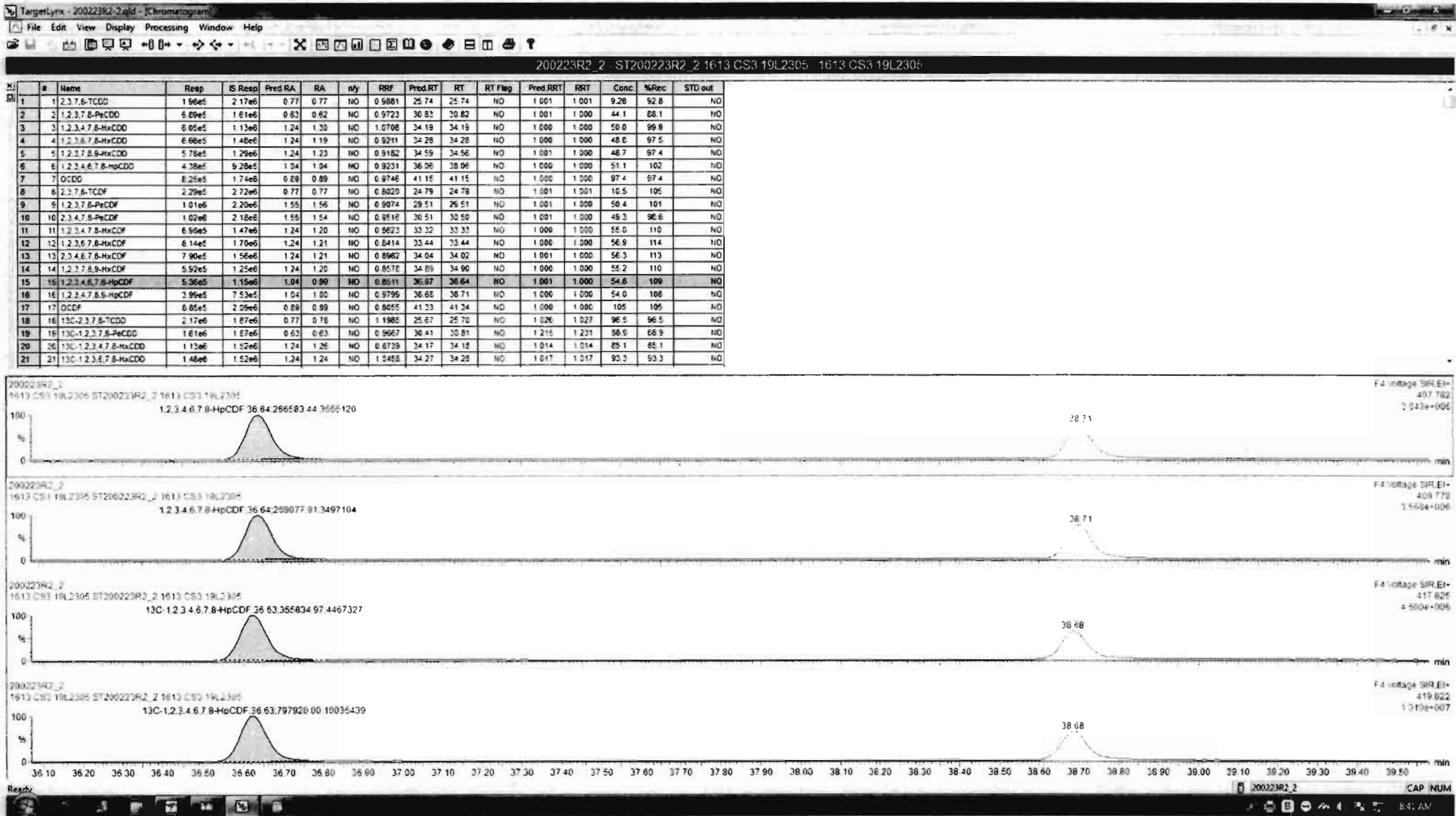
200223R2_2



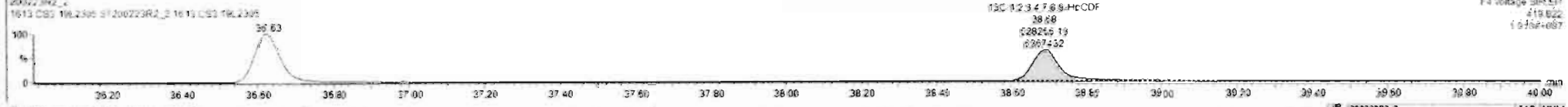
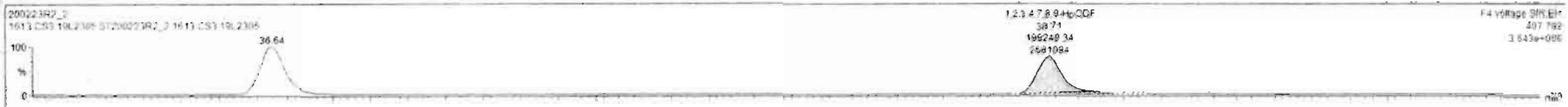
DPE4

200223R2_2





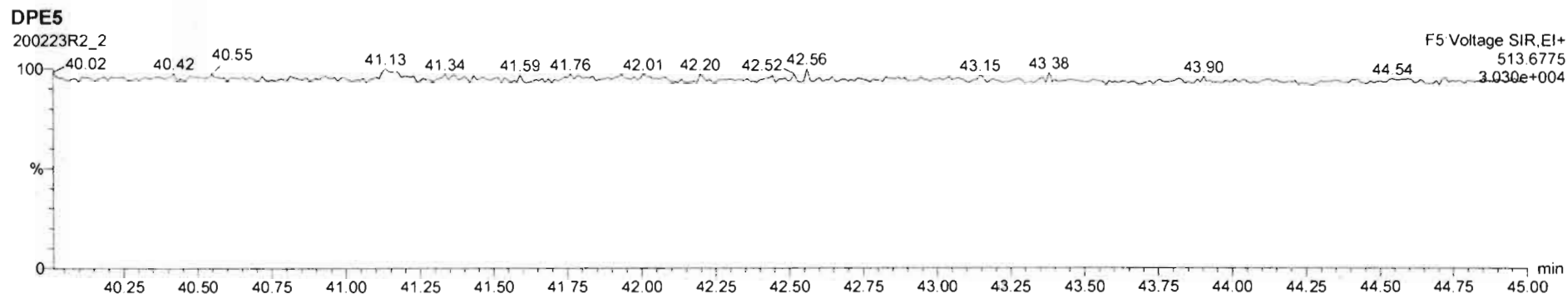
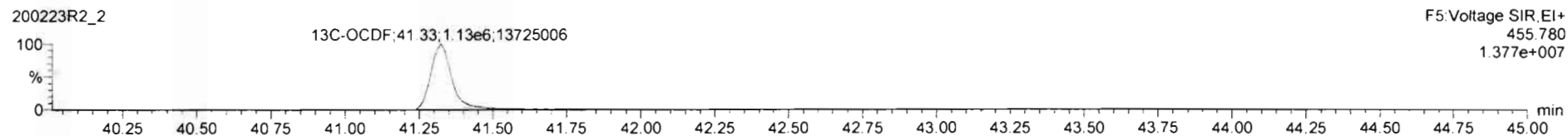
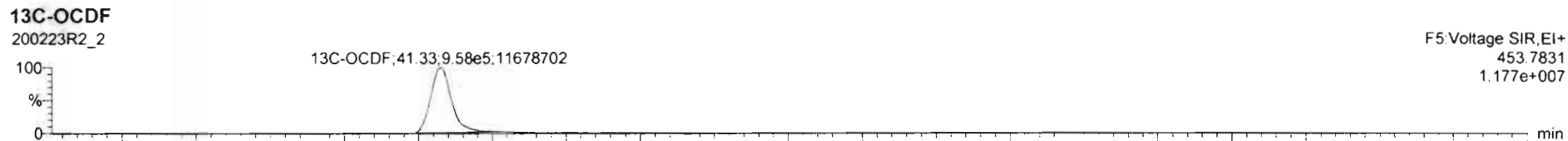
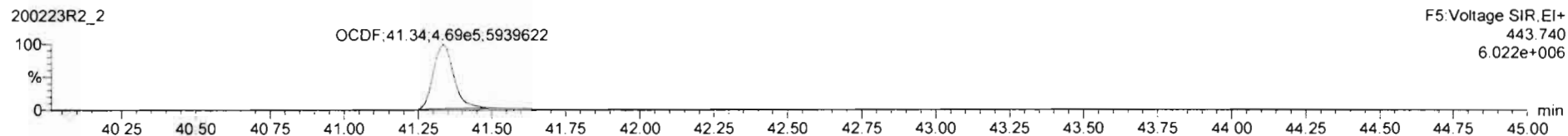
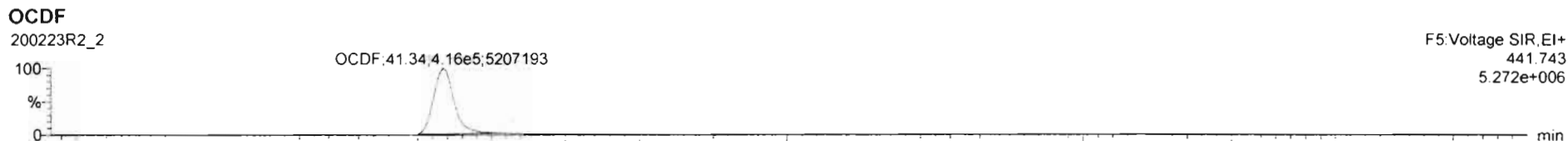
#	#	Name	Resp	S Resp	Pred RA	RA	ely	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1	2,3,7,8-TCDD	1.96e5	2.17e6	0.77	0.77	NO	0.9881	25.74	25.74	NO	1.001	1.001	9.26	92.8	NO
2	2	1,2,3,7,8-PeCDD	6.89e5	1.51e6	0.62	0.62	NO	0.9723	36.52	36.52	NO	1.001	1.000	44.1	88.1	NO
3	3	1,2,3,4,7,8-HxCDD	6.05e5	1.13e6	1.24	1.30	NO	1.0708	34.19	34.19	NO	1.000	1.000	50.0	99.9	NO
4	4	1,2,3,6,7,8-HxCDD	6.66e5	1.46e6	1.24	1.19	NO	0.9211	34.28	34.28	NO	1.000	1.000	48.8	97.5	NO
5	5	1,2,3,7,8,9-HxCDD	5.78e5	1.29e6	1.24	1.23	NO	0.9180	34.59	34.59	NO	1.001	1.000	46.7	97.4	NO
6	6	1,2,3,4,6,7,8-HpCDD	4.38e5	9.26e5	1.04	1.04	NO	0.9211	38.06	38.06	NO	1.000	1.000	51.1	102	NO
7	7	OCDD	6.25e5	1.74e6	0.89	0.89	NO	0.8748	41.15	41.15	NO	1.000	1.000	97.4	97.4	NO
8	8	2,3,7,8-TCDF	1.29e5	2.72e6	0.77	0.77	NO	0.9020	24.79	24.79	NO	1.001	1.001	10.5	105	NO
9	9	1,2,3,7,8-PeCDF	1.01e6	2.29e6	1.55	1.56	NO	0.9074	29.51	29.51	NO	1.001	1.000	50.4	101	NO
10	10	1,2,3,4,7,8-HxCDF	1.02e6	2.18e6	1.55	1.54	NO	0.9516	36.51	36.50	NO	1.001	1.000	49.3	96.6	NO
11	11	1,2,3,4,7,8-HxCDF	6.96e5	1.47e6	1.24	1.20	NO	0.9623	33.32	33.33	NO	1.000	1.000	55.0	110	NO
12	12	1,2,3,6,7,8-HxCDF	8.14e5	1.70e6	1.24	1.21	NO	0.9414	33.44	33.44	NO	1.000	1.000	56.9	114	NO
13	13	2,3,4,6,7,8-HxCDF	7.90e5	1.56e6	1.24	1.21	NO	0.8982	34.04	34.02	NO	1.001	1.000	56.3	113	NO
14	14	1,2,3,7,8,9-HxCDF	5.92e5	1.25e6	1.24	1.20	NO	0.8578	34.89	34.90	NO	1.000	1.000	55.2	110	NO
15	15	1,2,3,4,6,7,8-HpCDF	5.36e5	1.15e6	1.04	0.99	NO	0.8511	36.67	36.64	NO	1.001	1.000	54.6	108	NO
16	16	1,2,3,4,7,8,9-HpCDF	3.99e5	7.53e5	1.04	1.00	NO	0.9799	38.60	38.71	NO	1.000	1.000	54.0	108	NO
17	17	OCDF	6.85e5	2.09e6	0.89	0.89	NO	0.8055	41.33	41.34	NO	1.000	1.000	105	105	NO
18	18	13C-2,3,7,8-TCDD	2.17e6	1.87e6	0.77	0.78	NO	1.1985	25.67	25.70	NO	1.026	1.027	96.5	96.5	NO
19	19	13C-1,2,3,7,8-PeCDD	1.61e6	1.27e6	0.62	0.63	NO	0.9667	36.41	36.51	NO	1.215	1.231	88.9	88.9	NO
20	20	13C-1,2,3,4,7,8-HxCDD	1.13e6	1.52e6	1.24	1.26	NO	0.8735	34.17	34.15	NO	1.014	1.014	85.1	85.1	NO
21	21	13C-1,2,3,6,7,8-HxCDD	1.46e6	1.52e6	1.24	1.24	NO	1.0458	34.27	34.28	NO	1.017	1.017	92.3	92.3	NO



Dataset: Untitled

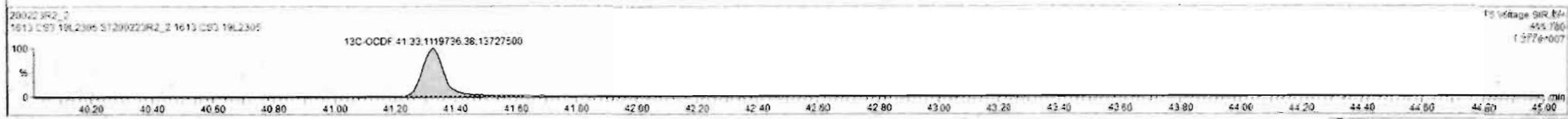
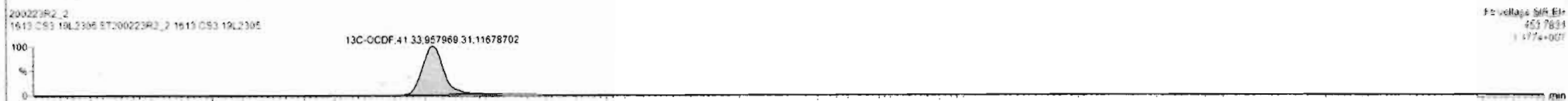
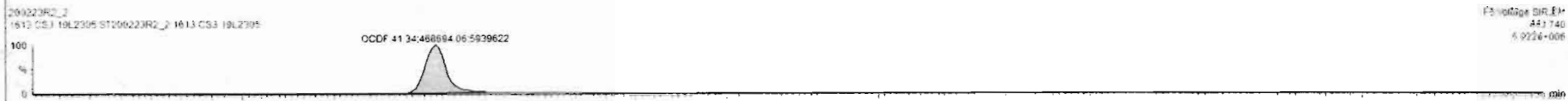
Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time
Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305



200223R2_2 - ST200223R2_2 1613 CS3 19L2305 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	aly	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.58e5	2.17e6	0.77	0.77	NO	0.9881	25.74	25.74	NO	1.001	1.001	9.26	92.8	NO
2	1,2,3,7,8-PeCDD	6.89e5	1.61e6	0.63	0.62	NO	0.9723	36.83	36.82	NO	1.001	1.000	44.1	88.1	NO
3	1,2,3,4,7,8-HxCDD	6.05e5	1.13e6	1.24	1.30	NO	1.0708	34.19	34.19	NO	1.000	1.000	56.0	99.9	NO
4	1,2,3,6,7,8-HxCDD	6.68e5	1.46e6	1.24	1.19	NO	0.9211	34.28	34.28	NO	1.000	1.000	48.8	97.5	NO
5	1,2,3,7,8,9-HxCDD	5.78e5	1.29e6	1.24	1.23	NO	0.9182	34.59	34.58	NO	1.001	1.000	48.7	97.4	NO
6	1,2,3,4,6,7,8-HpCDD	4.38e5	9.26e5	1.04	1.05	NO	0.9231	36.96	36.96	NO	1.000	1.000	51.1	102	NO
7	OCDD	6.25e5	1.74e6	0.89	0.89	NO	0.9745	41.15	41.15	NO	1.000	1.000	97.4	97.4	NO
8	2,3,7,8-TCDF	2.29e5	2.72e6	0.77	0.77	NO	0.9920	24.79	24.79	NO	1.001	1.001	16.5	105	NO
9	1,2,3,7,8-PeCDF	1.01e6	2.20e6	1.55	1.56	NO	0.9074	29.51	29.51	NO	1.001	1.001	50.4	101	NO
10	2,3,4,7,8-PeCDF	1.02e6	2.18e6	1.55	1.54	NO	0.9516	30.51	30.50	NO	1.001	1.000	49.3	98.6	NO
11	1,2,3,4,7,8-HxCDF	6.96e5	1.47e6	1.24	1.20	NO	0.8623	33.32	33.33	NO	1.000	1.000	55.0	116	NO
12	1,2,3,6,7,8-HxCDF	6.14e5	1.70e6	1.24	1.21	NO	0.8414	33.44	33.44	NO	1.000	1.000	58.9	114	NO
13	2,3,4,6,7,8-HxCDF	7.90e5	1.56e6	1.24	1.21	NO	0.8962	34.04	34.02	NO	1.001	1.000	56.3	113	NO
14	1,2,3,7,8,9-HxCDF	5.92e5	1.25e6	1.24	1.20	NO	0.8576	34.89	34.90	NO	1.000	1.000	55.2	110	NO
15	1,2,3,4,6,7,8-HpCDF	5.36e5	1.15e6	1.04	0.99	NO	0.8511	35.67	35.64	NO	1.001	1.000	54.6	109	NO
16	1,2,3,4,7,8,9-HpCDF	3.99e5	7.53e5	1.04	1.00	NO	0.9799	38.65	38.71	NO	1.000	1.001	54.0	105	NO
17	OCDF	6.85e5	2.05e6	0.89	0.89	NO	0.8955	41.33	41.34	NO	1.000	1.000	106	106	NO
18	13C-2,3,7,8-TCDD	2.17e6	1.87e6	0.77	0.78	NO	1.1985	25.68	25.70	NO	1.026	1.027	96.5	96.5	NO
19	13C-1,2,3,7,8-PeCDD	1.61e6	1.87e6	0.63	0.64	NO	0.9907	36.41	36.81	NO	1.215	1.231	88.5	86.5	NO
20	13C-1,2,3,4,7,8-HxCDD	1.13e6	1.52e6	1.24	1.26	NO	0.8738	34.17	34.18	NO	1.014	1.014	85.1	85.1	NO
21	13C-1,2,3,6,7,8-HxCDD	1.48e6	1.52e6	1.24	1.24	NO	1.0455	34.27	34.28	NO	1.017	1.017	93.3	93.3	NO

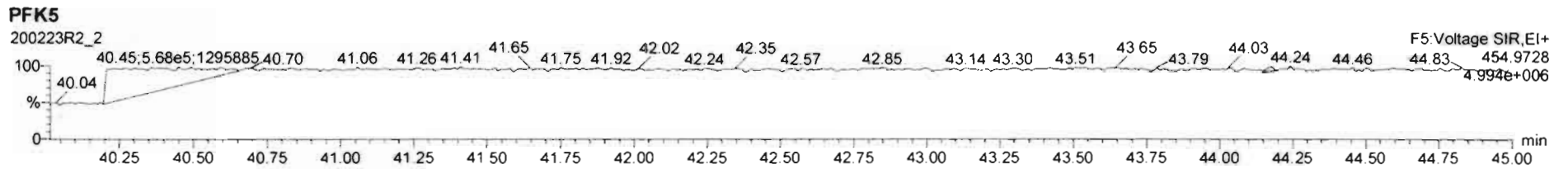
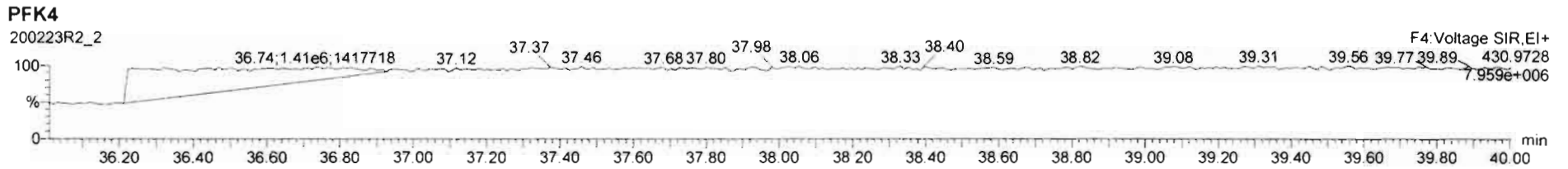
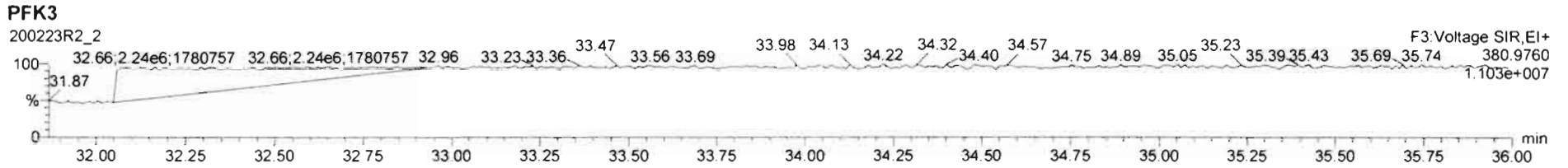
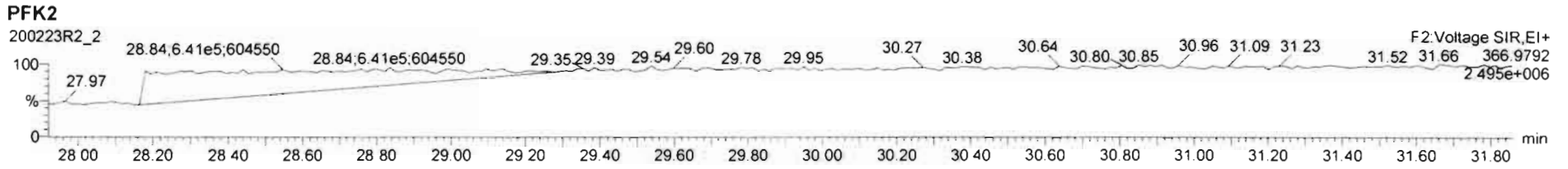
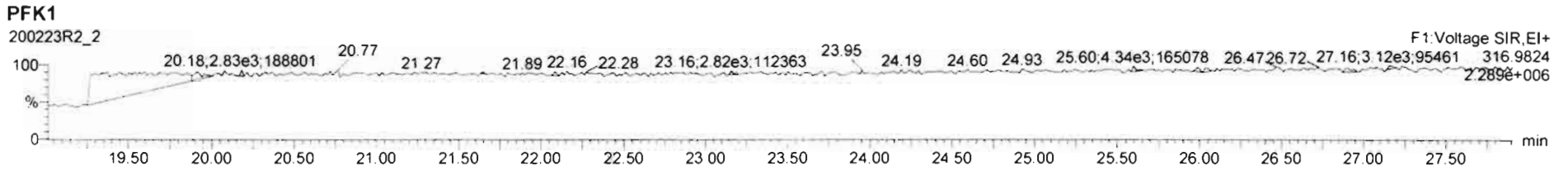


Dataset: Untitled

Last Altered: Monday, February 24, 2020 08:21:01 Pacific Standard Time

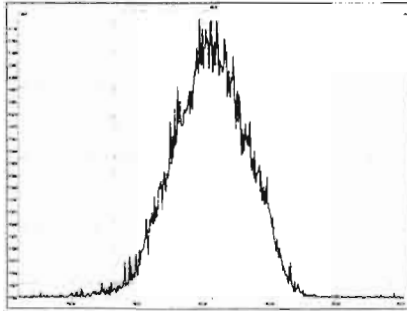
Printed: Monday, February 24, 2020 08:21:11 Pacific Standard Time

Name: 200223R2_2, Date: 23-Feb-2020, Time: 13:15:55, ID: ST200223R2_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

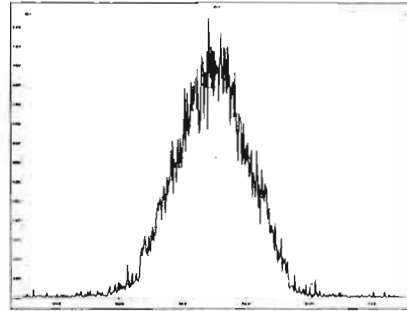


Printed: Monday, February 24, 2020 01:14:38 Pacific Standard Time

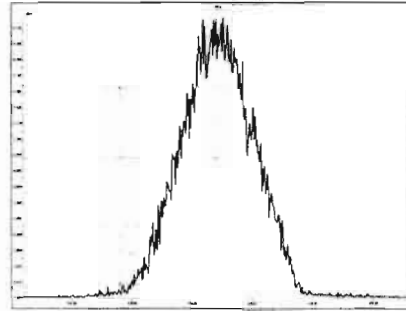
M 292.9824 R 11961



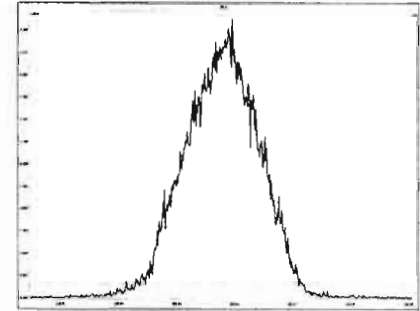
M 304.9824 R 11805



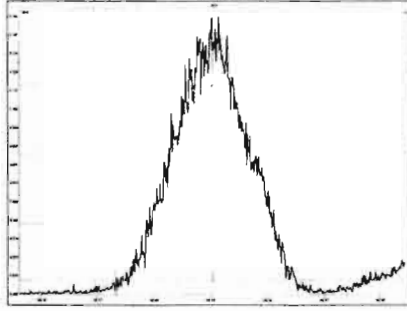
M 318.9792 R 12246



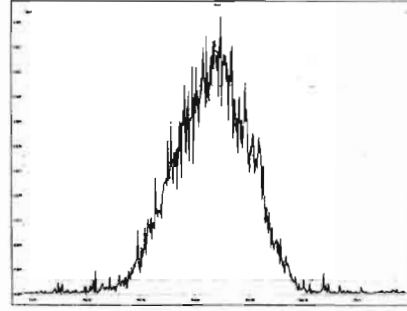
M 330.9792 R 11720



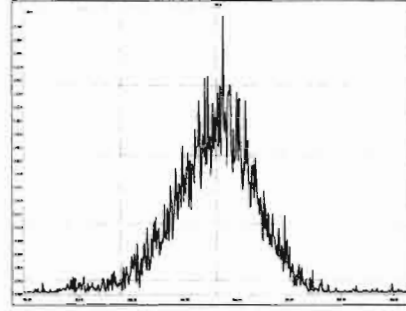
M 342.9792 R 11911



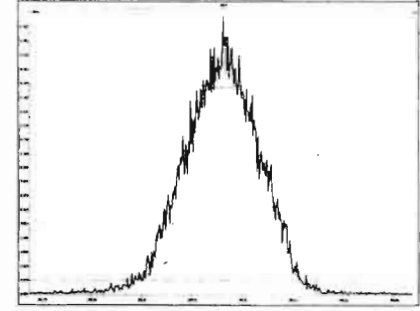
M 354.9792 R 12100



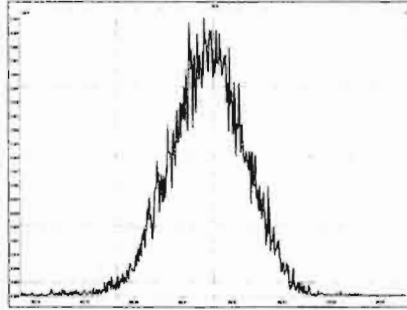
M 366.9792 R 11874



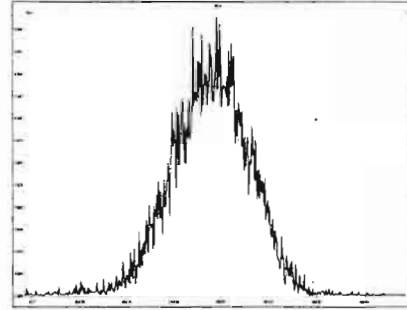
M 380.9760 R 11854



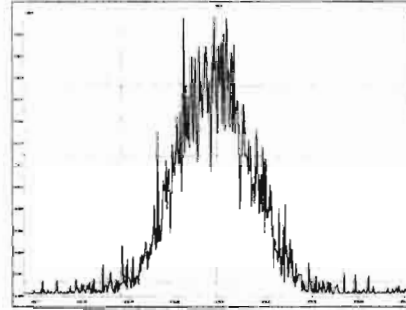
M 392.9760 R 11659



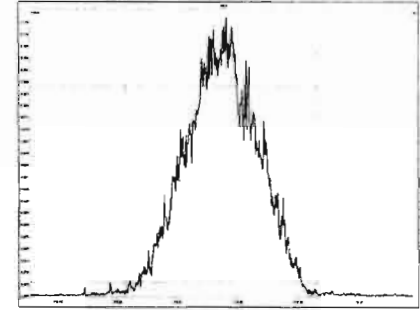
M 404.9760 R 11441



M 416.9760 R 11961

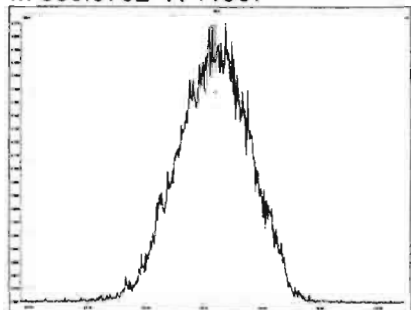


M 318.9792 R 12170

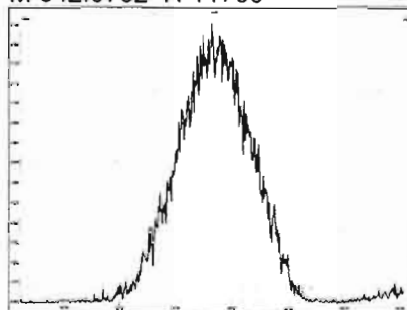


Printed: Monday, February 24, 2020 01:14:38 Pacific Standard Time

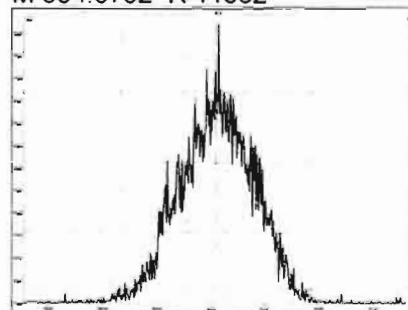
M 330.9792 R 11907



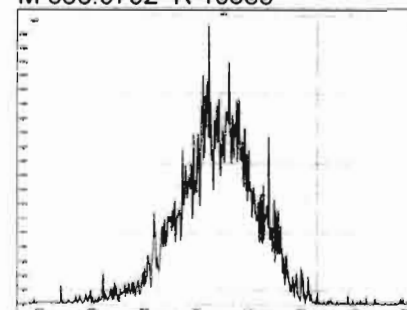
M 342.9792 R 11709



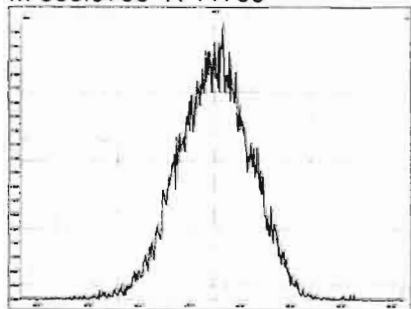
M 354.9792 R 11962



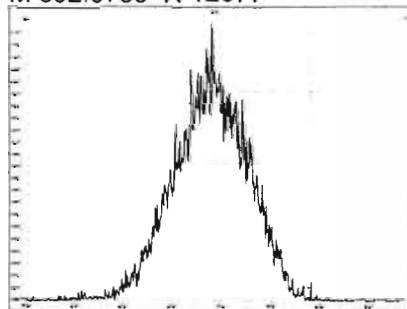
M 366.9792 R 10683



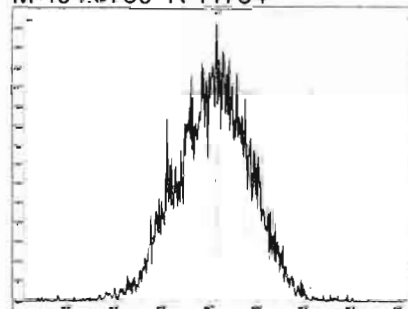
M 380.9760 R 11765



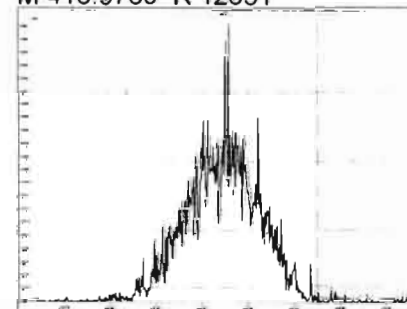
M 392.9760 R 12077



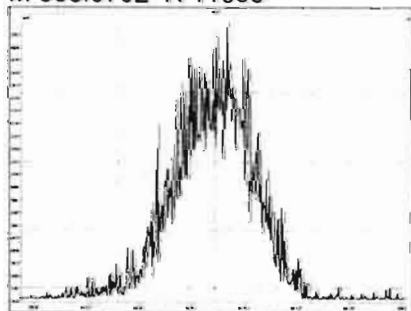
M 404.9760 R 11764



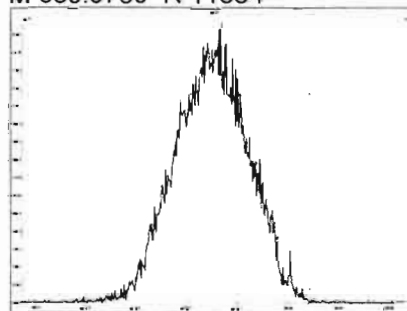
M 416.9760 R 12631



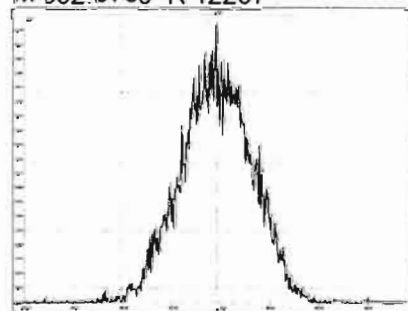
M 366.9792 R 11065



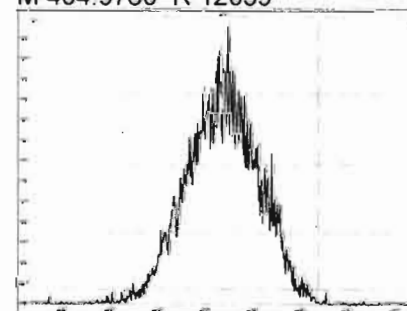
M 380.9760 R 11884



M 392.9760 R 12297

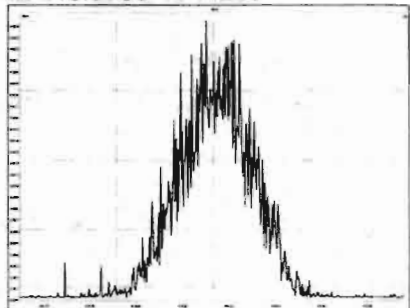


M 404.9760 R 12059

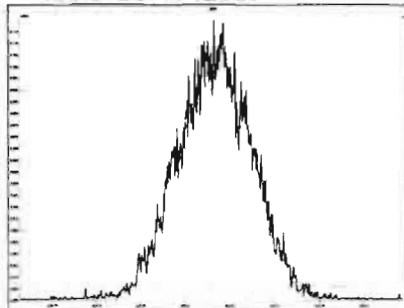


Printed: Monday, February 24, 2020 01:14:38 Pacific Standard Time

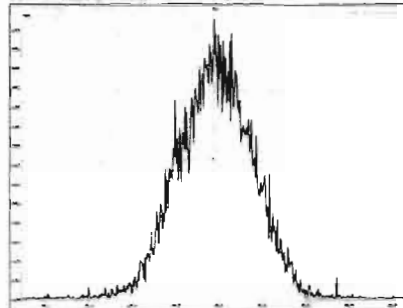
M 416.9760 R 11237



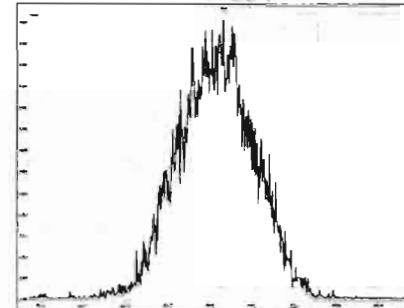
M 430.9728 R 12087



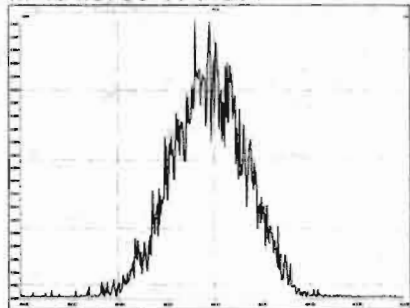
M 442.9728 R 11990



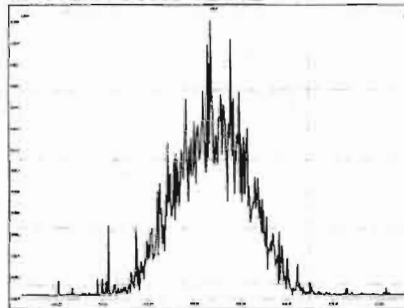
M 454.9728 R 11694



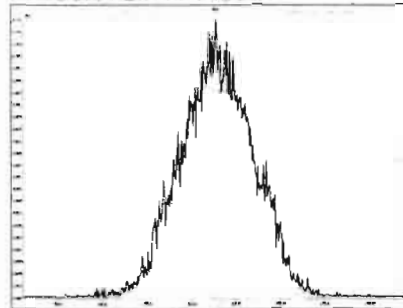
M 404.9760 R 11261



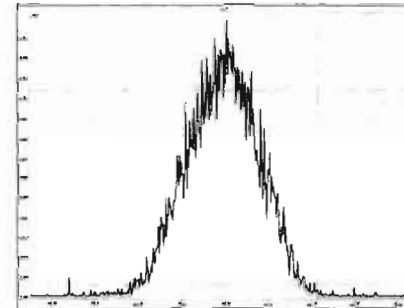
M 416.9760 R 12312



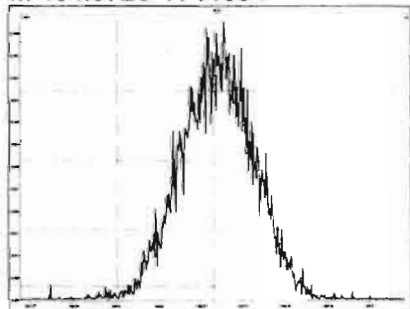
M 430.9728 R 11876



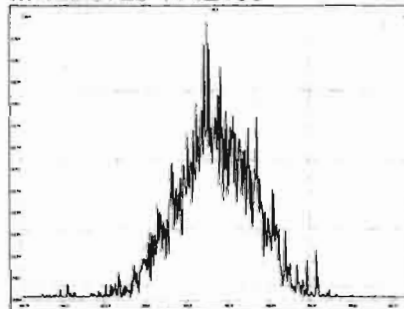
M 442.9728 R 11589



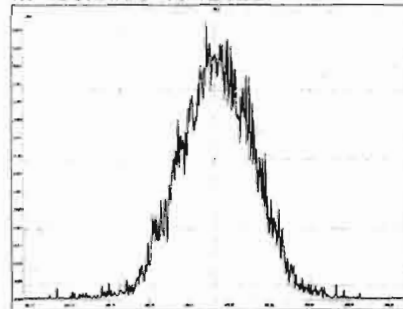
M 454.9728 R 11854



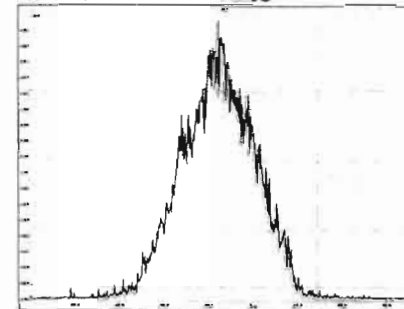
M 466.9728 R 12196



M 480.9696 R 12322

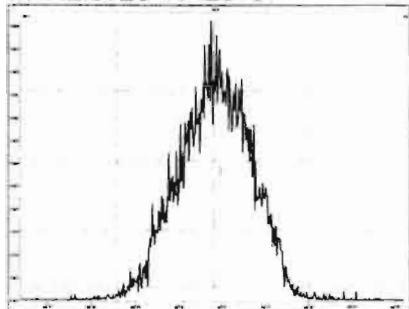


M 430.9728 R 11825

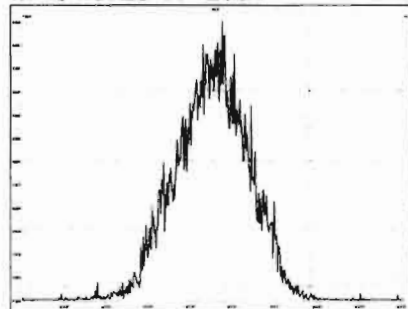


Printed: Monday, February 24, 2020 01:14:38 Pacific Standard Time

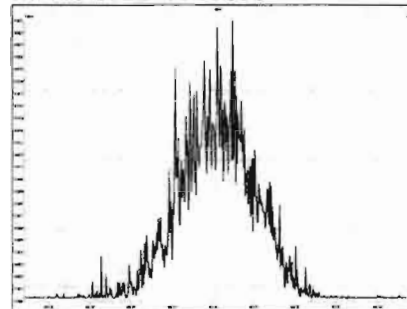
M 442.9728 R 12315



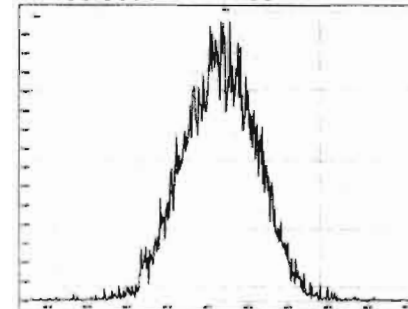
M 454.9728 R 12084



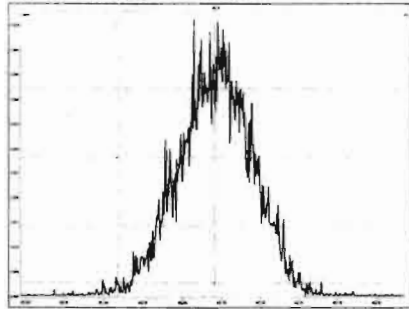
M 466.9728 R 13033



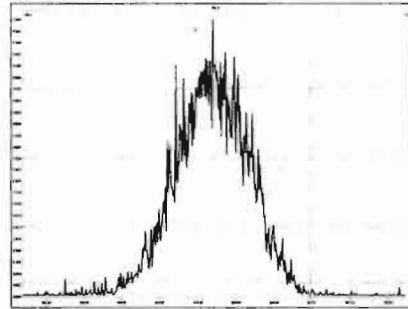
M 480.9696 R 11709



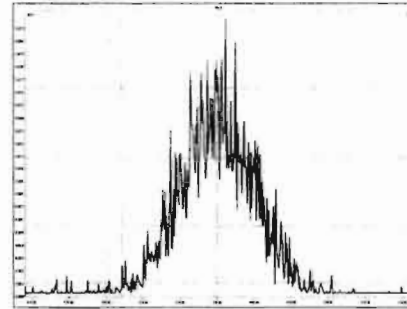
M 492.9696 R 12023



M 504.9696 R 11743



M 516.9697 R 12660



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200223R3-1

Reviewed By: CT 02/25/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GPB</u>	<u>GPB</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?	<u>GPB</u>	<u>GPB</u>

Mass resolution ≥

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:\VG12.PRO\Results\200223R3\200223R3-1.qld

Last Altered: Monday, February 24, 2020 07:59:19 Pacific Standard Time

Printed: Monday, February 24, 2020 15:26:39 Pacific Standard Time

GRB 02/24/2020

CT 02/25/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	2.03e5	2.22e6	0.78	NO	0.988	25.74	25.74	NO	1.001	1.001	9.2493	92.5	NO
2	2 1,2,3,7,8-PeCDD	7.15e5	1.66e6	0.62	NO	0.972	30.83	30.82	NO	1.001	1.000	44.293	88.6	NO
3	3 1,2,3,4,7,8-HxCDD	6.27e5	1.16e6	1.30	NO	1.07	34.18	34.19	NO	1.000	1.001	50.674	101	NO
4	4 1,2,3,6,7,8-HxCDD	6.76e5	1.49e6	1.19	NO	0.921	34.28	34.28	NO	1.000	1.000	49.188	98.4	NO
5	5 1,2,3,7,8,9-HxCDD	6.00e5	1.33e6	1.21	NO	0.918	34.59	34.56	NO	1.001	1.000	49.299	98.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	4.70e5	1.02e6	1.04	NO	0.923	38.05	38.06	NO	1.000	1.001	50.140	100	NO
7	7 OCDD	9.16e5	1.91e6	0.88	NO	0.975	41.13	41.14	NO	1.000	1.000	98.626	98.6	NO
8	8 2,3,7,8-TCDF	2.35e5	2.83e6	0.75	NO	0.802	24.79	24.79	NO	1.001	1.001	10.352	104	NO
9	9 1,2,3,7,8-PeCDF	1.04e6	2.27e6	1.56	NO	0.907	29.51	29.51	NO	1.001	1.000	50.538	101	NO
10	10 2,3,4,7,8-PeCDF	1.05e6	2.22e6	1.54	NO	0.952	30.51	30.50	NO	1.001	1.000	49.790	99.6	NO
11	11 1,2,3,4,7,8-HxCDF	7.38e5	1.55e6	1.20	NO	0.862	33.32	33.33	NO	1.000	1.000	55.230	110	NO
12	12 1,2,3,6,7,8-HxCDF	8.33e5	1.74e6	1.20	NO	0.841	33.44	33.46	NO	1.000	1.001	56.823	114	NO
13	13 2,3,4,6,7,8-HxCDF	7.98e5	1.58e6	1.22	NO	0.898	34.04	34.02	NO	1.001	1.000	56.136	112	NO
14	14 1,2,3,7,8,9-HxCDF	6.24e5	1.31e6	1.22	NO	0.858	34.89	34.90	NO	1.000	1.000	55.571	111	NO
15	15 1,2,3,4,6,7,8-HpCDF	5.71e5	1.23e6	1.00	NO	0.851	36.67	36.64	NO	1.001	1.000	54.621	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	4.41e5	8.30e5	1.01	NO	0.980	38.68	38.69	NO	1.000	1.000	54.252	109	NO
17	17 OCDF	9.87e5	2.30e6	0.88	NO	0.806	41.31	41.33	NO	1.000	1.000	106.49	106	NO
18	18 13C-2,3,7,8-TCDD	2.22e6	1.90e6	0.78	NO	1.20	25.67	25.70	NO	1.026	1.027	97.659	97.7	NO
19	19 13C-1,2,3,7,8-PeCDD	1.66e6	1.90e6	0.63	NO	0.967	30.41	30.80	NO	1.215	1.231	90.617	90.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	1.16e6	1.54e6	1.25	NO	0.874	34.17	34.17	NO	1.014	1.014	85.640	85.6	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.49e6	1.54e6	1.27	NO	1.05	34.27	34.28	NO	1.017	1.017	92.470	92.5	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.33e6	1.54e6	1.27	NO	0.974	34.58	34.55	NO	1.026	1.025	88.147	88.1	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.02e6	1.54e6	1.08	NO	0.747	38.15	38.03	NO	1.132	1.129	88.057	88.1	NO
24	24 13C-OCDD	1.91e6	1.54e6	0.88	NO	0.707	41.05	41.13	NO	1.218	1.221	174.82	87.4	NO
25	25 13C-2,3,7,8-TCDF	2.83e6	2.61e6	0.78	NO	1.07	24.86	24.76	NO	0.993	0.989	101.82	102	NO
26	26 13C-1,2,3,7,8-PeCDF	2.27e6	2.61e6	1.57	NO	1.00	29.44	29.49	NO	1.176	1.178	86.978	87.0	NO
27	27 13C-2,3,4,7,8-PeCDF	2.22e6	2.61e6	1.57	NO	0.962	30.41	30.48	NO	1.215	1.218	88.486	88.5	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.55e6	1.54e6	0.51	NO	1.05	33.29	33.32	NO	0.988	0.989	95.691	95.7	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.74e6	1.54e6	0.51	NO	1.19	33.40	33.43	NO	0.991	0.992	94.852	94.9	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.58e6	1.54e6	0.51	NO	1.07	34.01	34.01	NO	1.009	1.009	96.157	96.2	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.31e6	1.54e6	0.52	NO	0.922	34.91	34.89	NO	1.036	1.035	91.931	91.9	NO

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-1.qld

Last Altered: Monday, February 24, 2020 07:59:19 Pacific Standard Time

Printed: Monday, February 24, 2020 15:26:39 Pacific Standard Time

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.23e6	1.54e6	0.45	NO	0.767	36.67	36.63	NO	1.088	1.087	103.76	104	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.30e5	1.54e6	0.44	NO	0.552	38.69	38.68	NO	1.148	1.148	97.286	97.3	NO
34	34 13C-OCDF	2.30e6	1.54e6	0.85	NO	0.789	41.28	41.31	NO	1.225	1.226	188.73	94.4	NO
35	35 37Cl-2,3,7,8-TCDD	2.07e5	1.90e6			1.18	25.71	25.74	NO	1.027	1.028	9.2918	92.9	NO
36	36 13C-1,2,3,4-TCDD	1.90e6	1.90e6	0.80	NO	1.00	25.11	25.03	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.61e6	2.61e6	0.79	NO	1.00	23.37	23.27	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.54e6	1.54e6	0.51	NO	1.00	33.71	33.70	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		2.22e6			0.988	24.62		NO	0.000		80.157		NO
40	40 Total Penta-Dioxins		1.66e6			0.972	29.96		NO	0.000		193.67		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		247.99		NO
42	42 Total Hepta-Dioxins		1.02e6			0.923	37.64		NO	0.000		135.64		NO
43	43 Total Tetra-Furans		2.83e6			0.802	23.61		NO	0.000		51.215		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000		98.167		NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		173.25		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		316.93		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		109.32		NO

Dataset: U:\VG12.PRO\Results\200223R3\200223R3-CPSM.qld

Last Altered: Monday, February 24, 2020 08:03:25 Pacific Standard Time

Printed: Monday, February 24, 2020 09:07:45 Pacific Standard Time

Method: Untitled 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.57
2	2 1,2,8,9-TCDD (Last)	26.72
3	3 1,2,4,7,9-PeCDD (First)	28.56
4	4 1,2,3,8,9-PeCDD (Last)	31.20
5	5 1,2,4,6,7,9-HxCDD (First)	32.72
6	6 1,2,3,7,8,9-HxCDD (Last)	34.56
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.02
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.06
9	9 1,3,6,8-TCDF (First)	19.54
10	10 1,2,8,9-TCDF (Last)	26.87
11	11 1,3,4,6,8-PeCDF (First)	26.86
12	12 1,2,3,8,9-PeCDF (Last)	31.44
13	13 1,2,3,4,6,8-HxCDF (First)	32.17
14	14 1,2,3,7,8,9-HxCDF (Last)	34.90
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.64
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.69

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:35:36 Pacific Standard Time

Printed: Monday, February 24, 2020 15:36:32 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

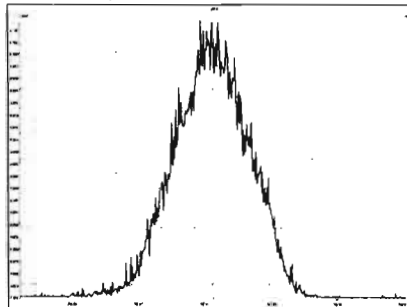
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

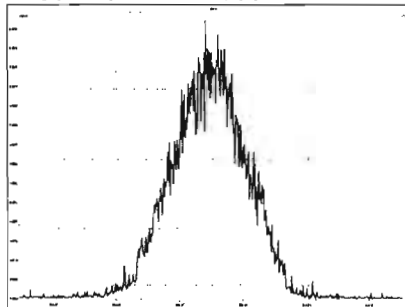
	Name	ID	Acq.Date	Acq.Time
1	200223R3_1	ST200223R3_1 1613 CS3 19L2305	24-Feb-20	03:35:44
2	200223R3_2	SOLVENT BLANK	24-Feb-20	04:23:09
3	200223R3_3	B0B0083-BS3 OPR 10	24-Feb-20	05:10:34
4	200223R3_4	B0B0081-BS2 OPR 10	24-Feb-20	05:57:50
5	200223R3_5	SOLVENT BLANK	24-Feb-20	06:45:15
6	200223R3_6	1903736-02RE1 PDI-026SC-B-02-04-191014 ...	24-Feb-20	07:32:41
7	200223R3_7	1903736-03RE1 PDI-026SC-B-04-06-191014 ...	24-Feb-20	08:20:05
8	200223R3_8	1903736-04RE1 PDI-026SC-B-06-08-191014 ...	24-Feb-20	09:07:21
9	200223R3_9	1903736-05RE1 PDI-077SC-B-00-02-191014 ...	24-Feb-20	09:54:39
10	200223R3_10	1903736-06RE1 PDI-077SC-B-02-04-191014 ...	24-Feb-20	10:42:03
11	200223R3_11	1903736-07RE1 PDI-077SC-B-04-06-191014 ...	24-Feb-20	11:29:19
12	200223R3_12	1903736-08RE1 PDI-077SC-B-06-08-191014 ...	24-Feb-20	12:16:44
13	200223R3_13	1903736-09RE1 PDI-079SC-B-00-02-191014 ...	24-Feb-20	13:04:10
14	200223R3_14	1903736-11RE1 PDI-079SC-B-04-06-191014 ...	24-Feb-20	13:51:35
15	200223R3_15	1903736-12RE1 PDI-079SC-B-06-08-191014 ...	24-Feb-20	14:39:01

Printed: Monday, February 24, 2020 01:14:38 Pacific Standard Time

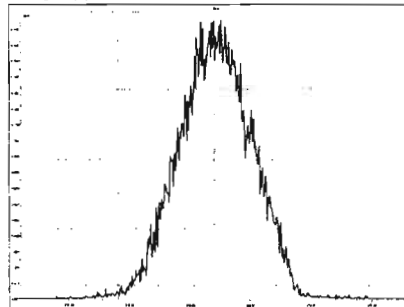
M 292.9824 R 11961



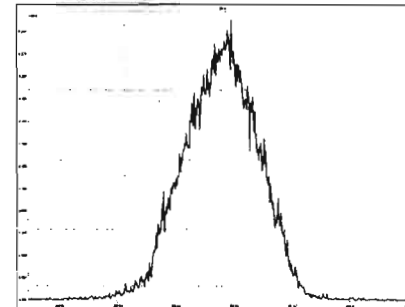
M 304.9824 R 11805



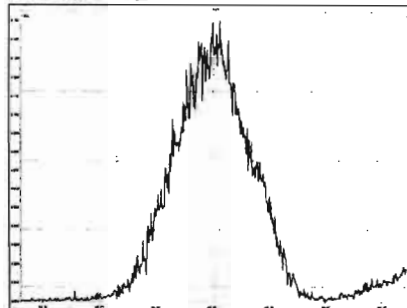
M 318.9792 R 12246



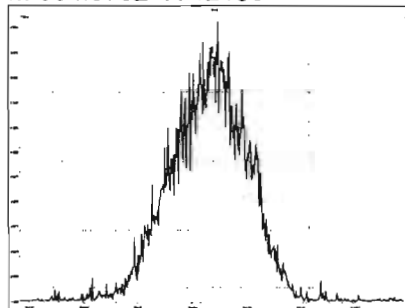
M 330.9792 R 11720



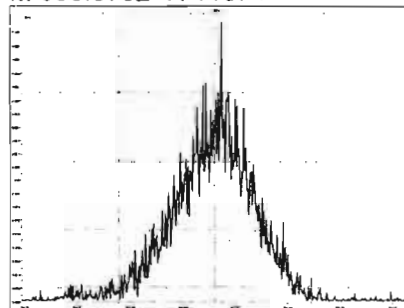
M 342.9792 R 11911



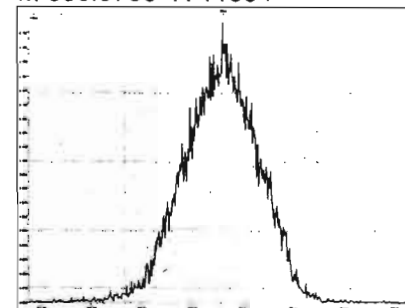
M 354.9792 R 12100



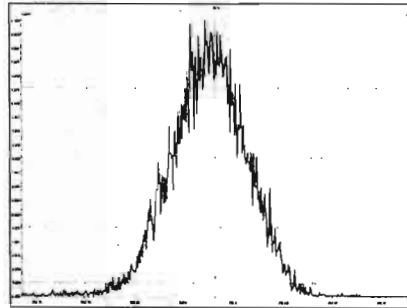
M 366.9792 R 11874



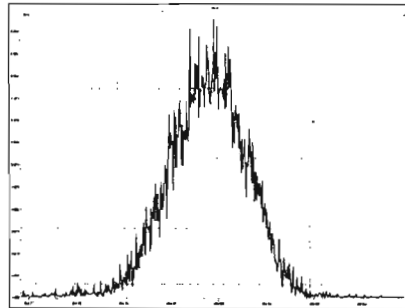
M 380.9760 R 11854



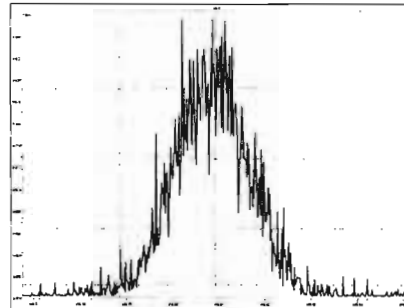
M 392.9760 R 11659



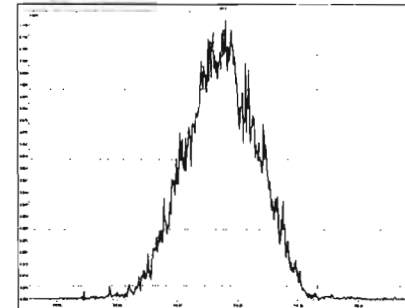
M 404.9760 R 11441



M 416.9760 R 11961

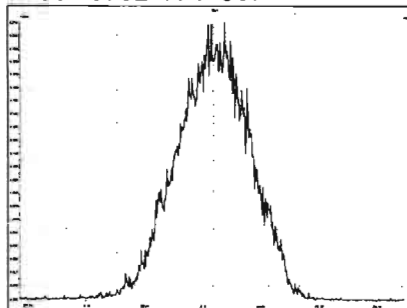


M 318.9792 R 12170

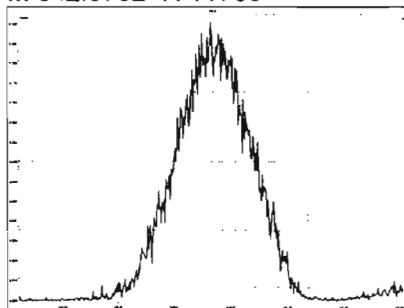


Printed: Monday, February 24, 2020 01:14:38 Pacific Standard Time

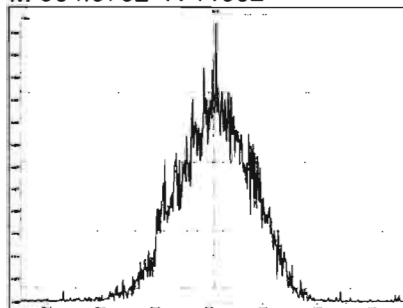
M 330.9792 R 11907



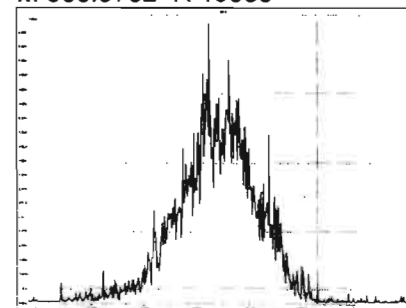
M 342.9792 R 11709



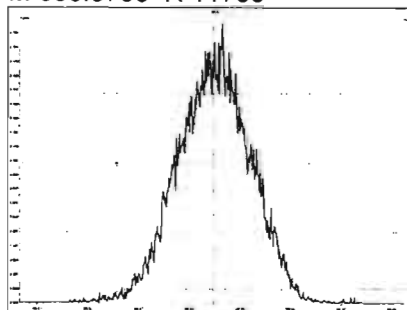
M 354.9792 R 11962



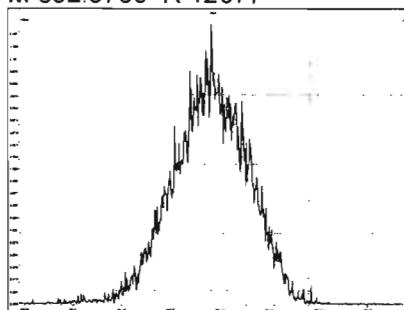
M 366.9792 R 10683



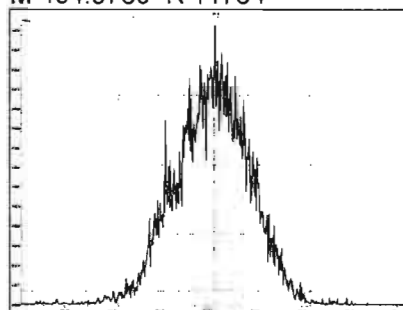
M 380.9760 R 11765



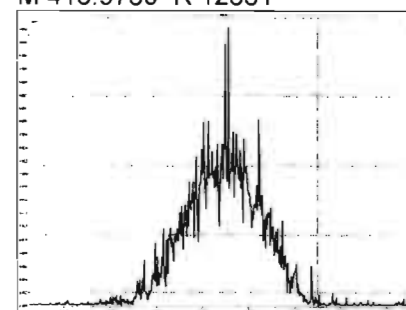
M 392.9760 R 12077



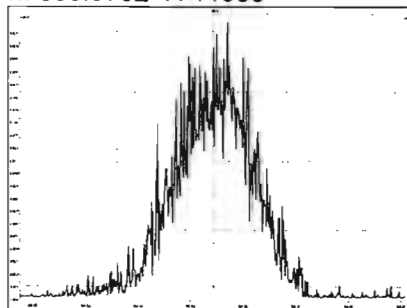
M 404.9760 R 11764



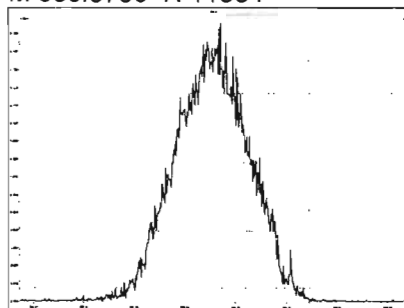
M 416.9760 R 12631



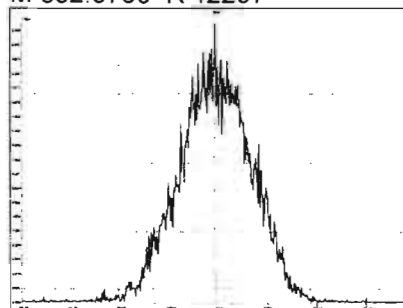
M 366.9792 R 11065



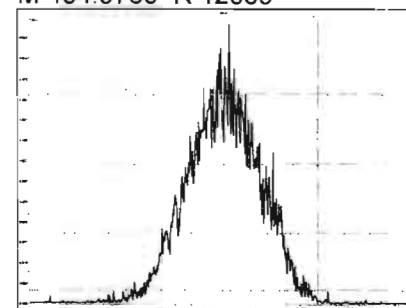
M 380.9760 R 11884



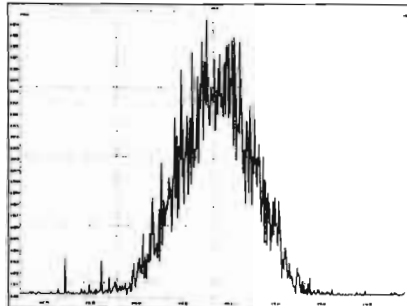
M 392.9760 R 12297



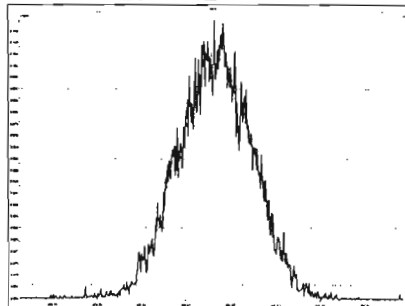
M 404.9760 R 12059



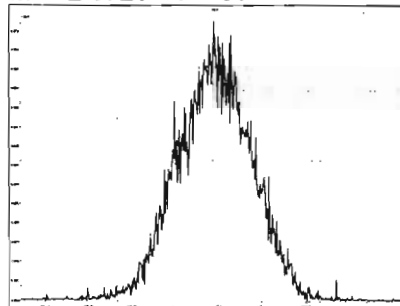
M 416.9760 R 11237



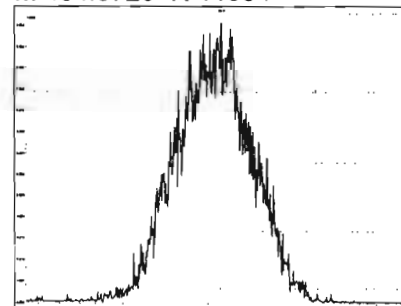
M 430.9728 R 12087



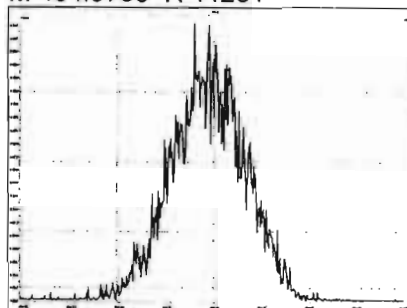
M 442.9728 R 11990



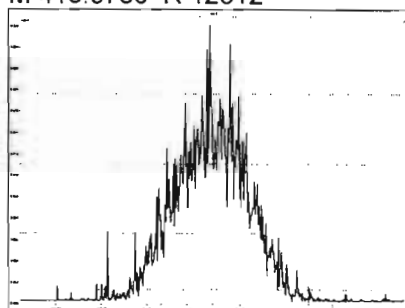
M 454.9728 R 11694



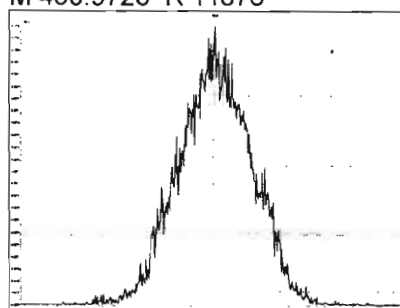
M 404.9760 R 11261



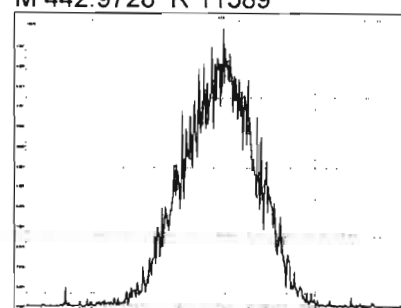
M 416.9760 R 12312



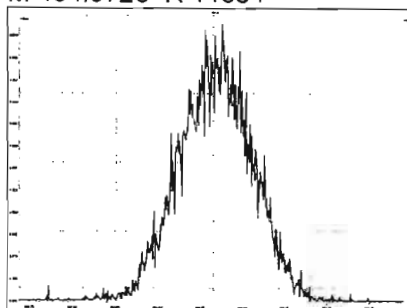
M 430.9728 R 11876



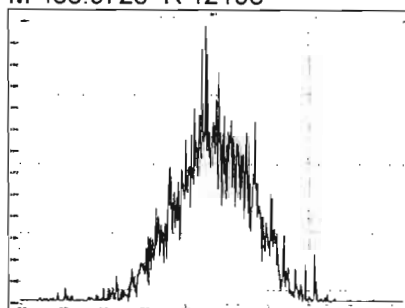
M 442.9728 R 11589



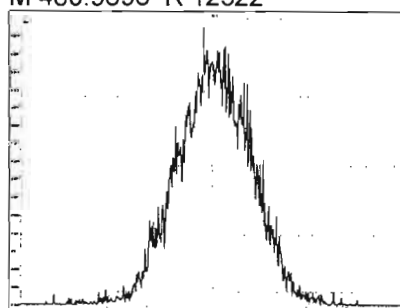
M 454.9728 R 11854



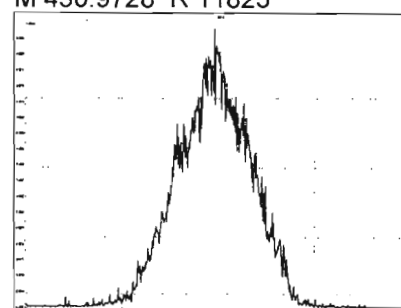
M 466.9728 R 12196



M 480.9696 R 12322

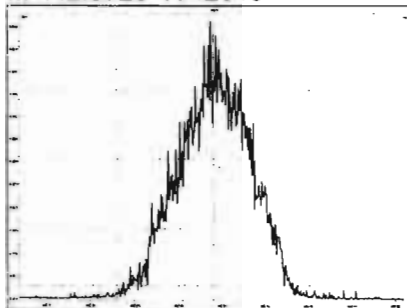


M 430.9728 R 11825

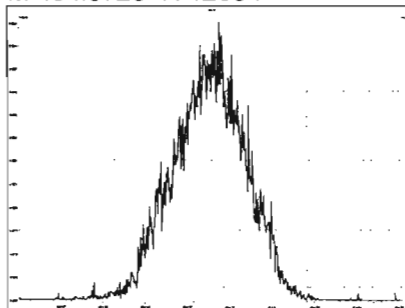


Printed: Monday, February 24, 2020 01:14:38 Pacific Standard Time

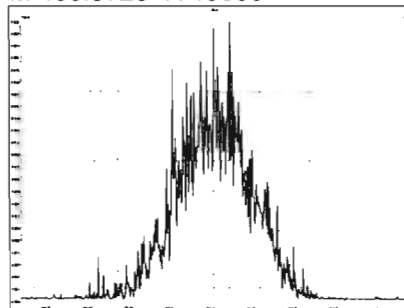
M 442.9728 R 12315



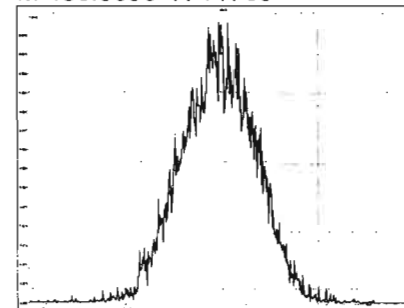
M 454.9728 R 12084



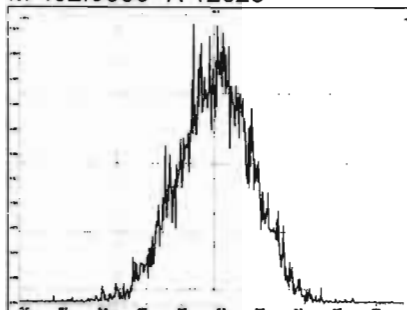
M 466.9728 R 13033



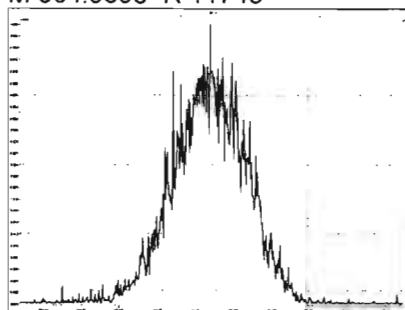
M 480.9696 R 11709



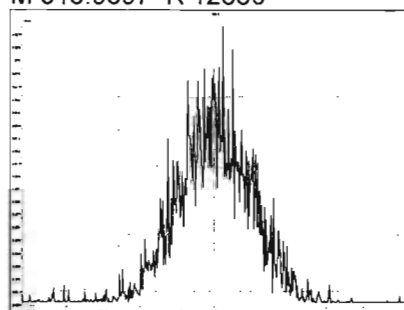
M 492.9696 R 12023



M 504.9696 R 11743



M 516.9697 R 12660



Dataset: U:\VG12.PRO\Results\200223R3\200223R3-CPSM.qld

Last Altered: Monday, February 24, 2020 08:03:25 Pacific Standard Time
Printed: Monday, February 24, 2020 09:07:45 Pacific Standard Time

GRB 02/24/2020

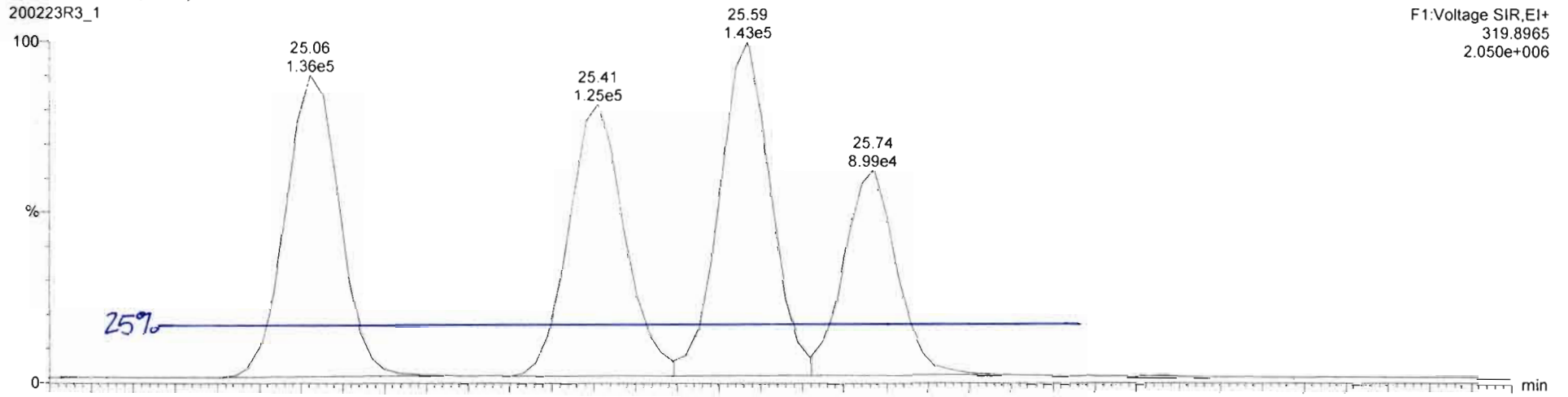
Method: Untitled 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

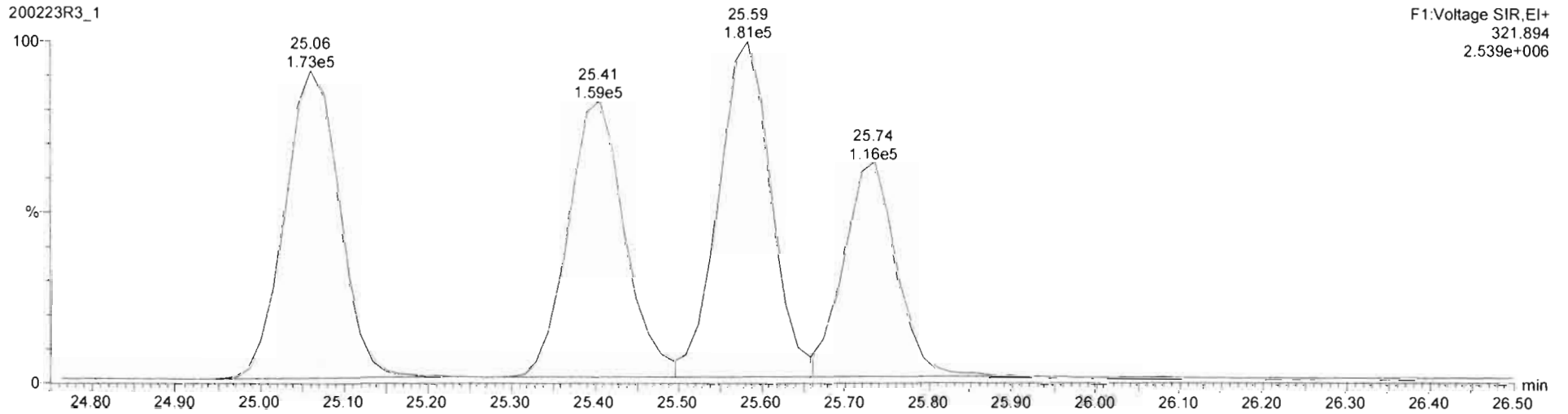
Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200223R3_1



200223R3_1



Dataset: Untitled

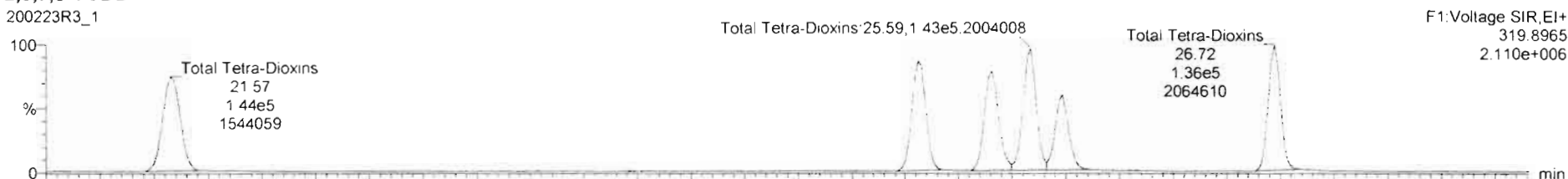
Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time
Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

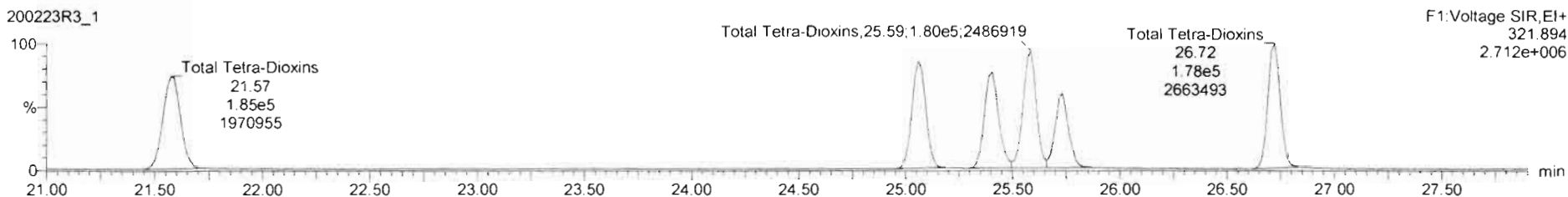
Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200223R3_1

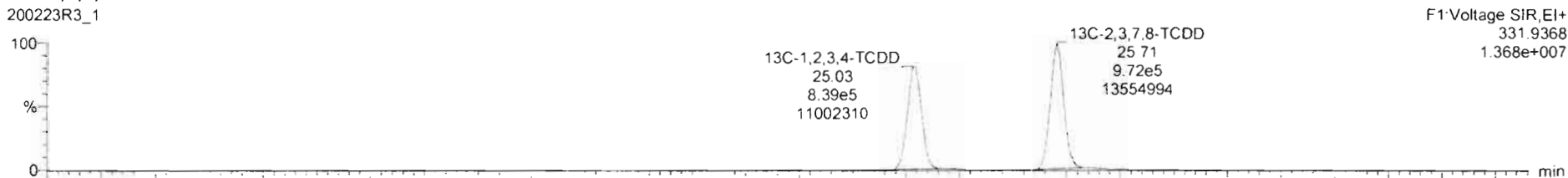


200223R3_1

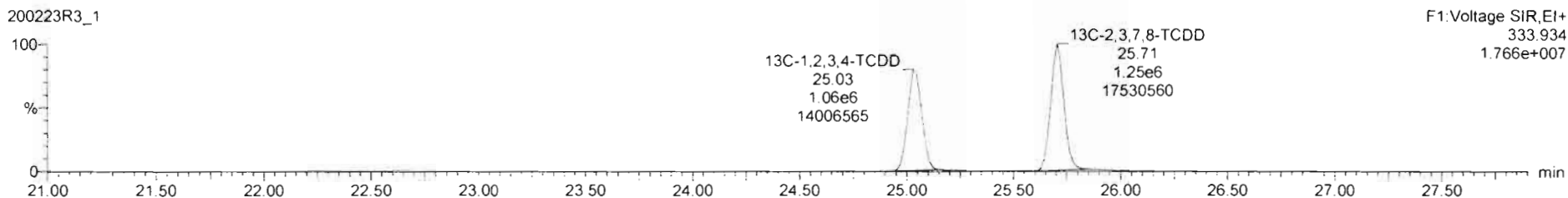


13C-2,3,7,8-TCDD

200223R3_1



200223R3_1



Dataset: Untitled

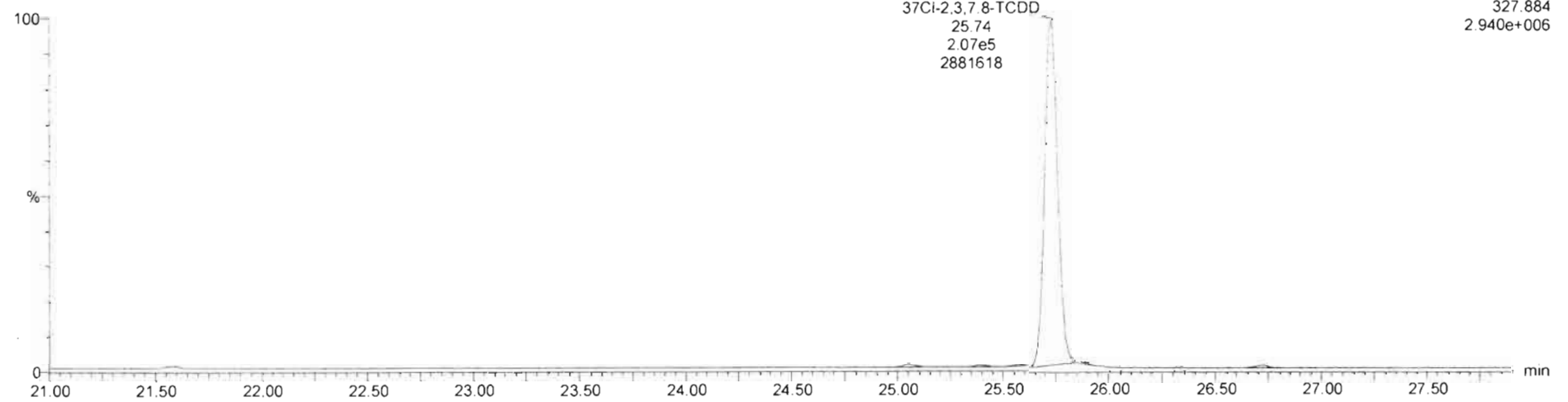
Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time

Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

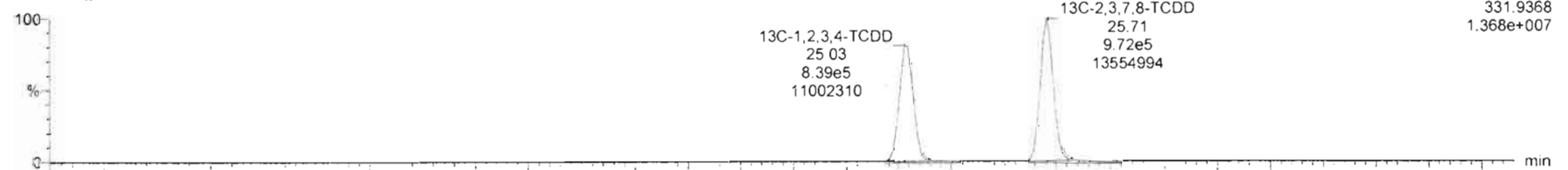
37Cl-2,3,7,8-TCDD

200223R3_1

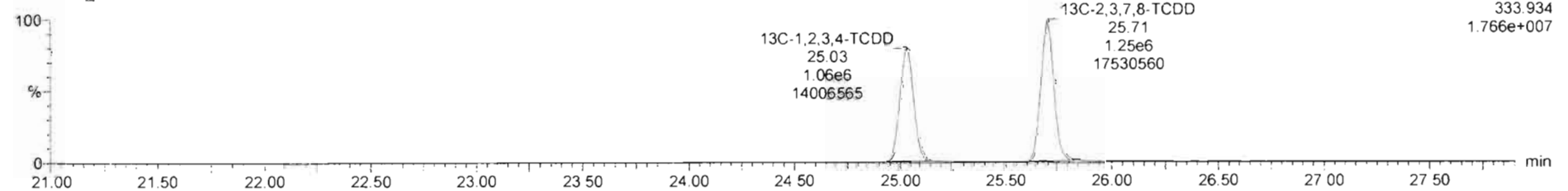


13C-1,2,3,4-TCDD

200223R3_1



200223R3_1

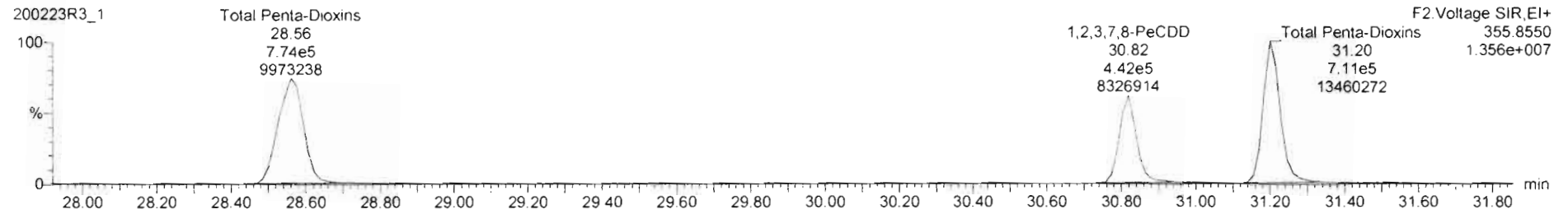
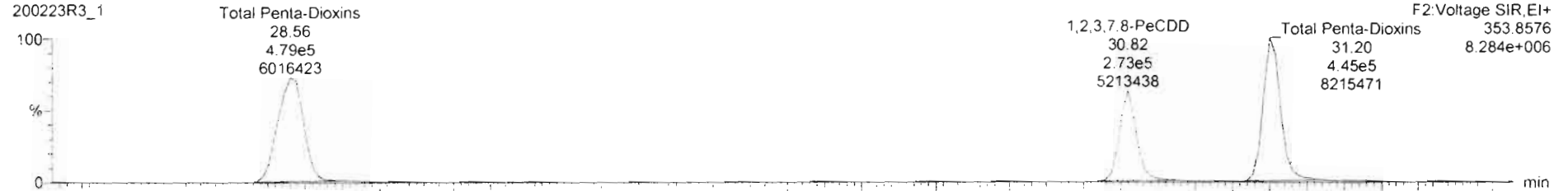


Dataset: Untitled

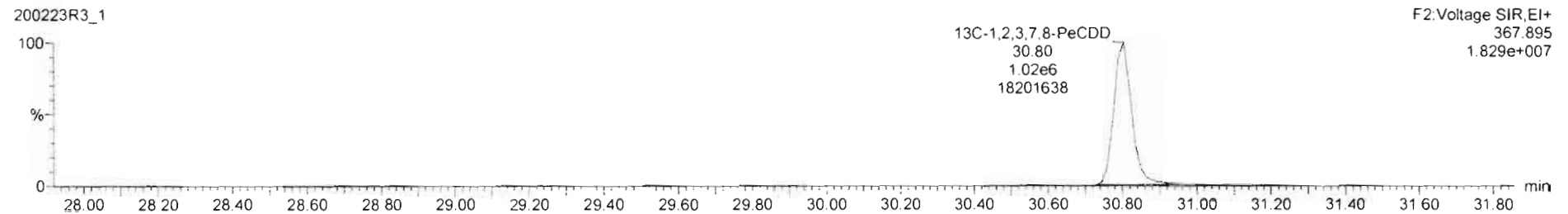
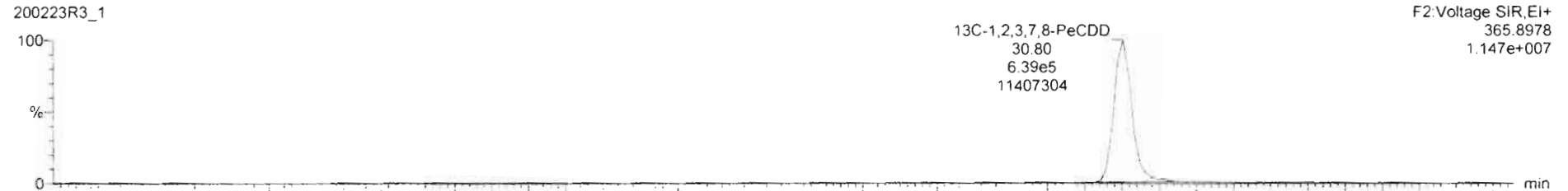
Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time
Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD



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



Dataset: Untitled

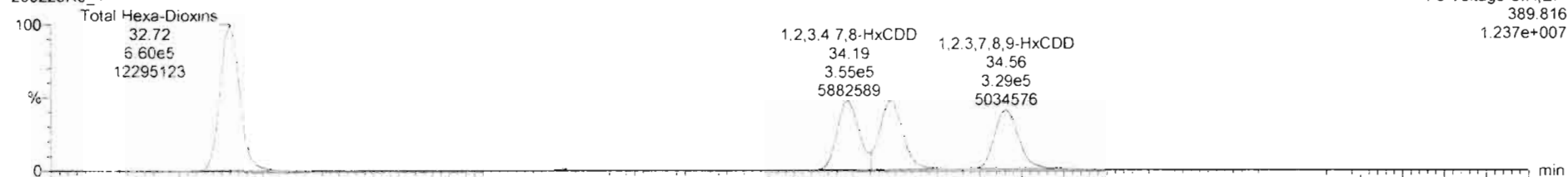
Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time

Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

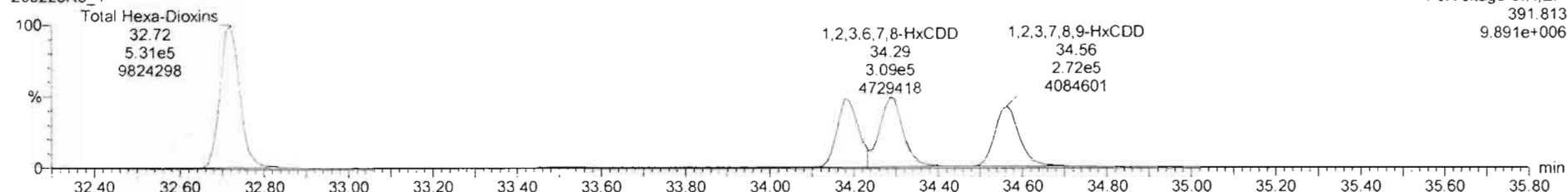
Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200223R3_1

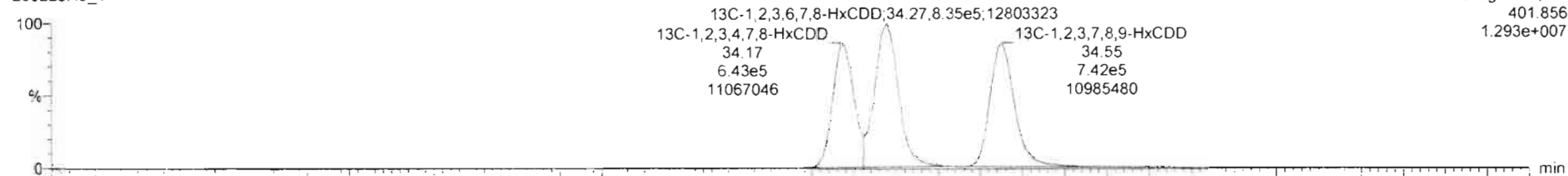


200223R3_1

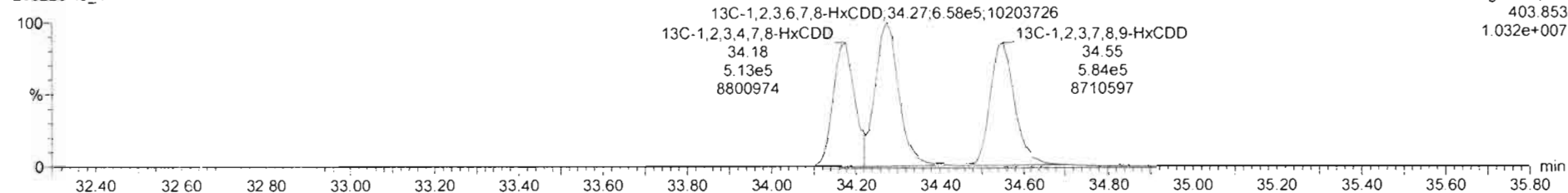


13C-1,2,3,4,7,8-HxCDD

200223R3_1



200223R3_1



Dataset: Untitled

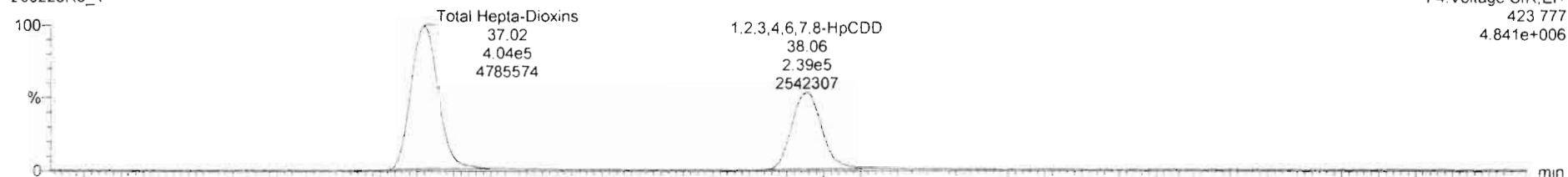
Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time

Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

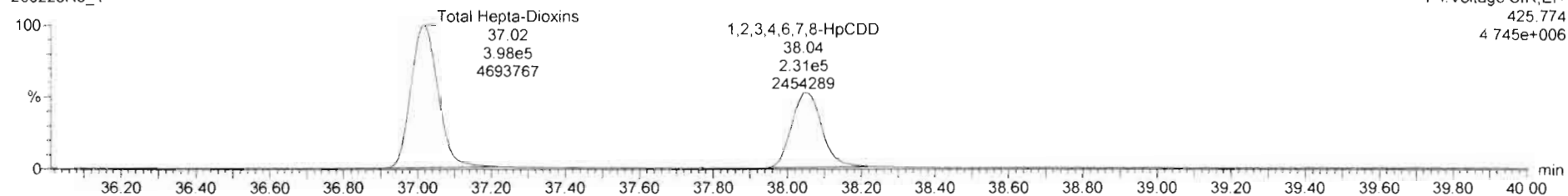
Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200223R3_1

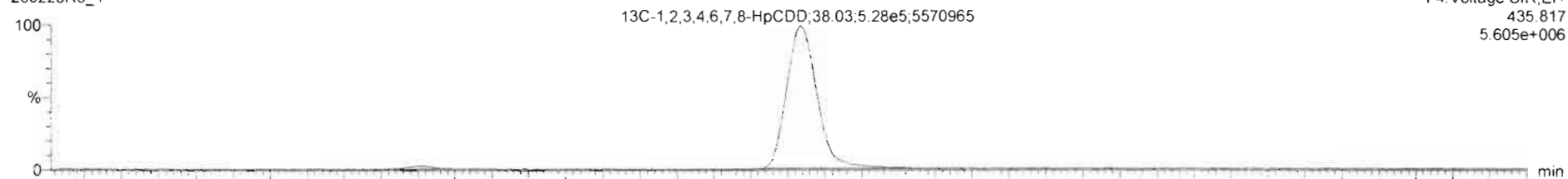


200223R3_1

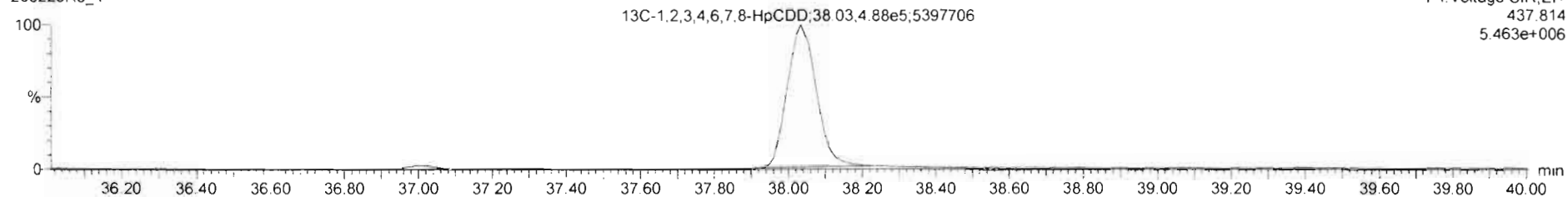


13C-1,2,3,4,6,7,8-HpCDD

200223R3_1



200223R3_1

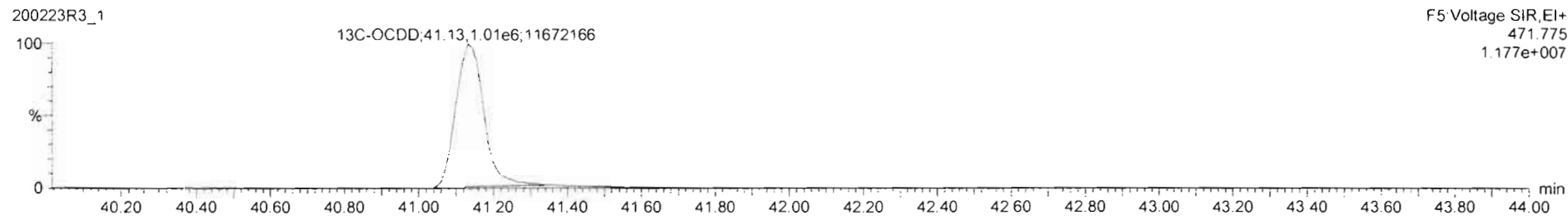
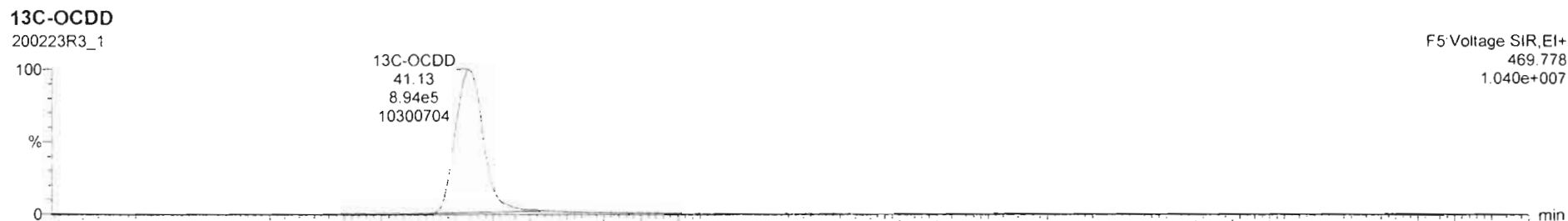
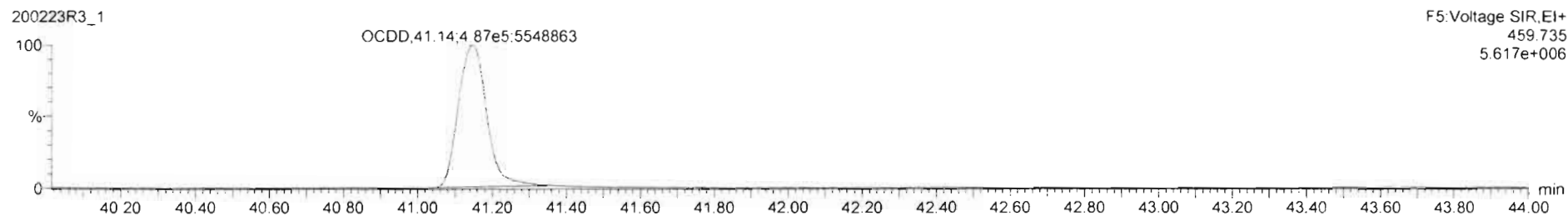


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time

Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

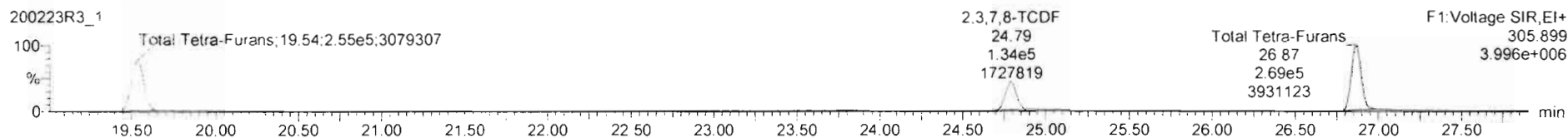
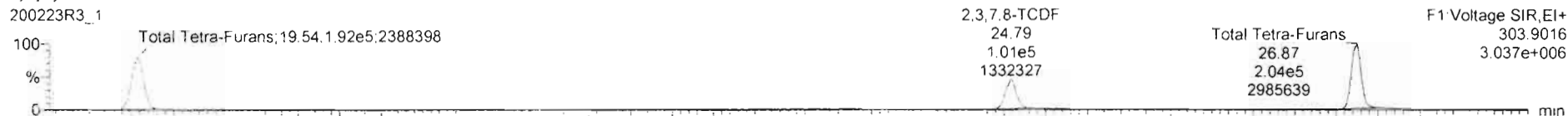


Dataset: Untitled

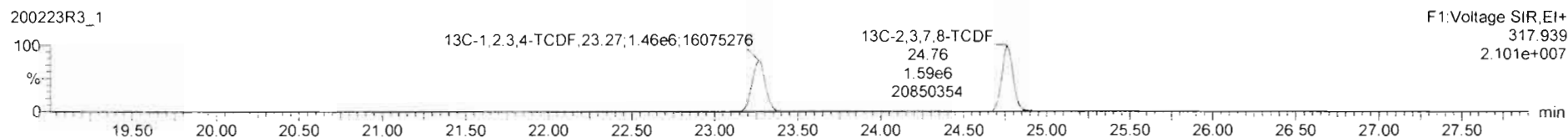
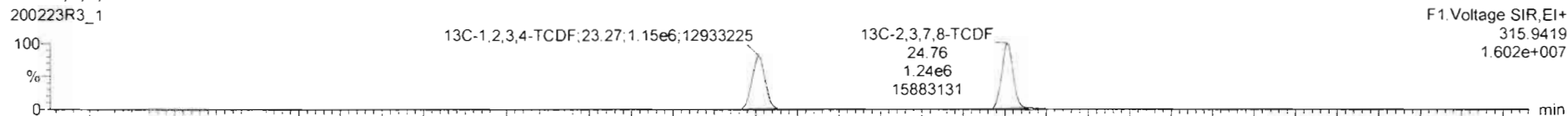
Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time
Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

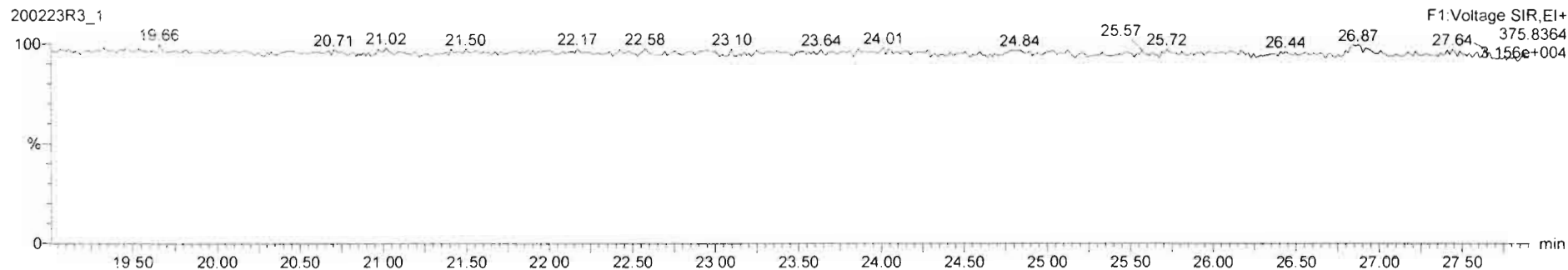
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

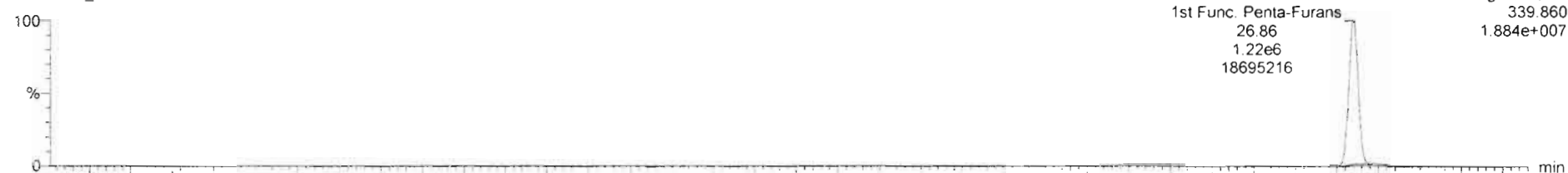
Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time

Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

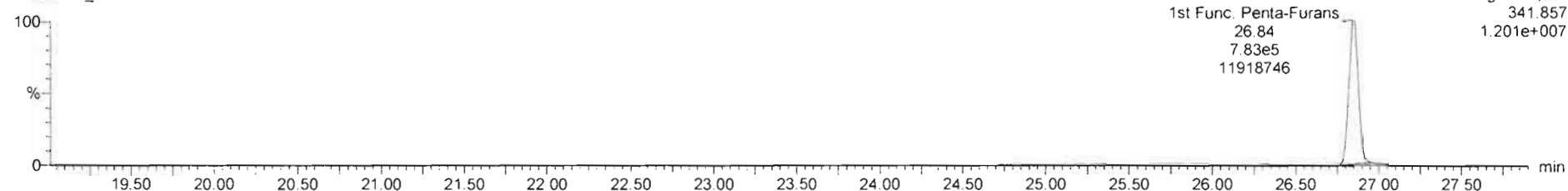
Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200223R3_1

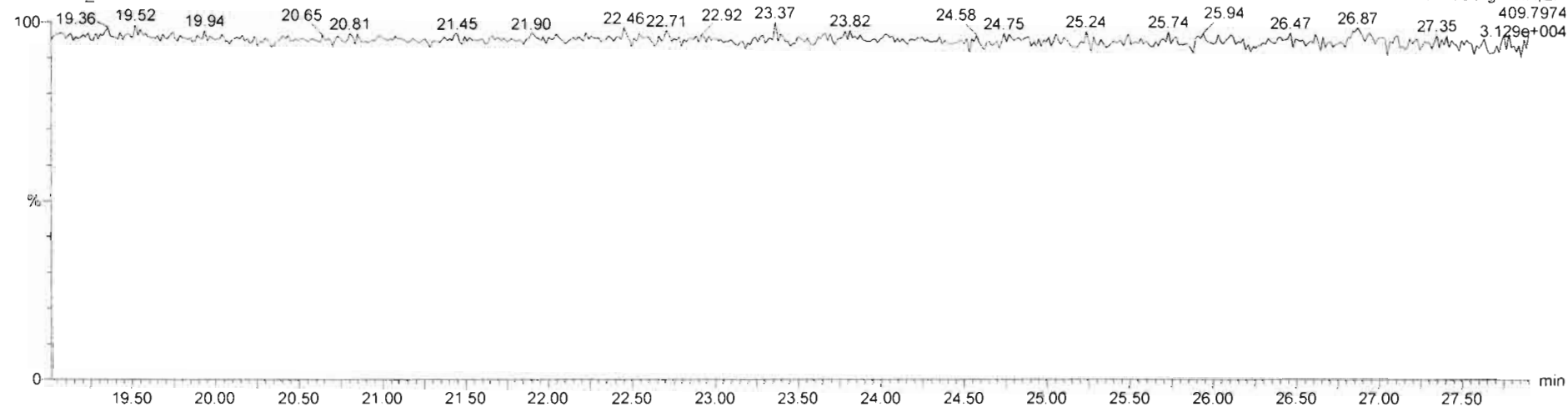


200223R3_1



DPE6

200223R3_1

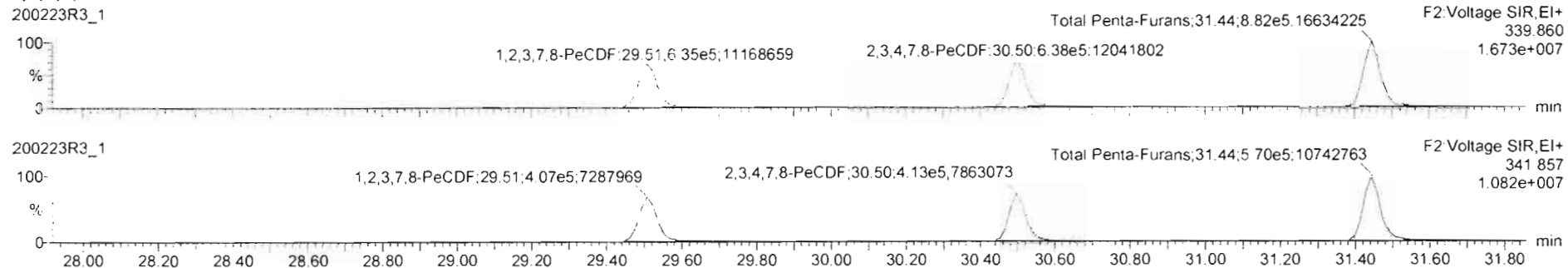


Dataset: Untitled

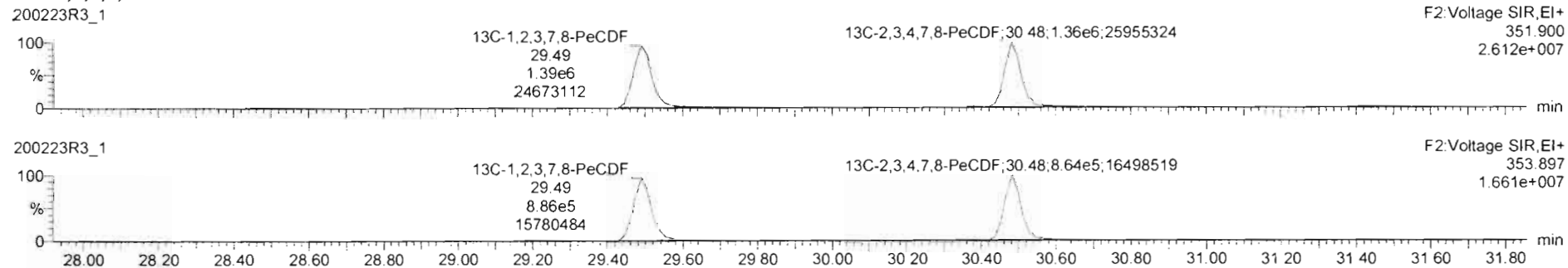
Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time
Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

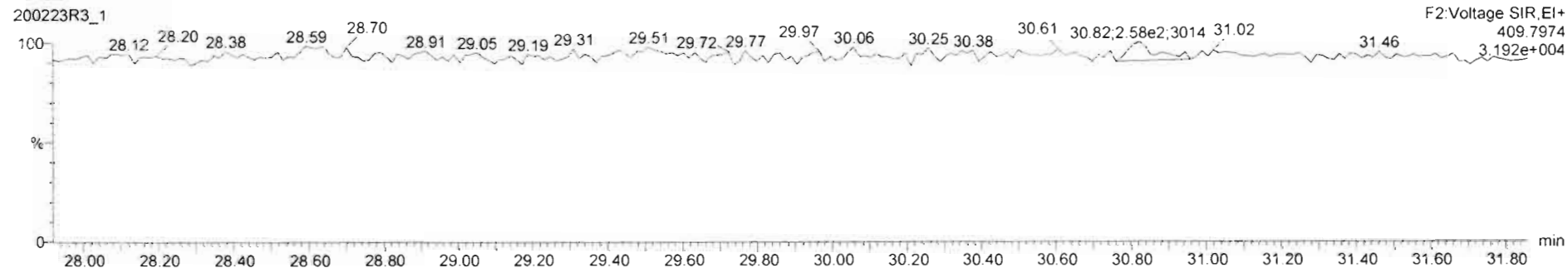
1,2,3,7,8-PeCDF



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



DPE2



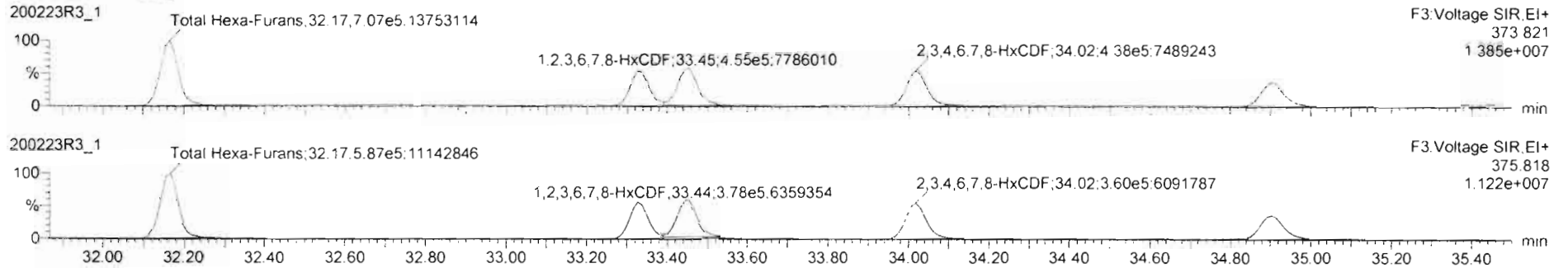
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time

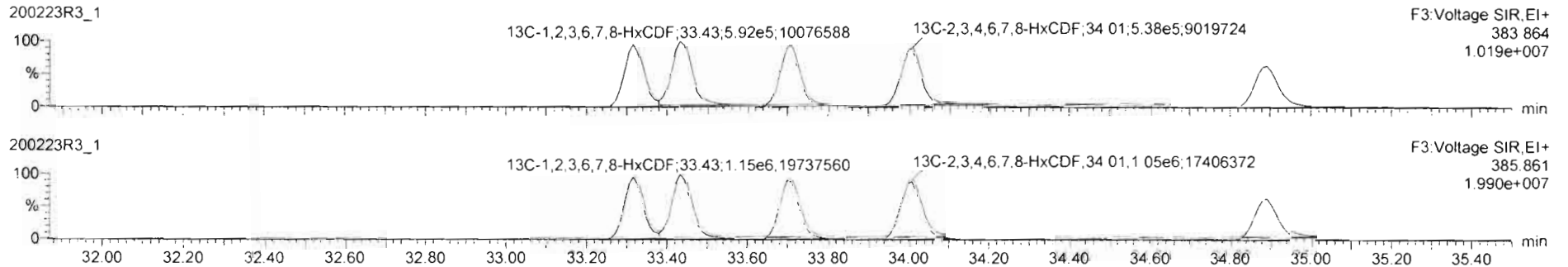
Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

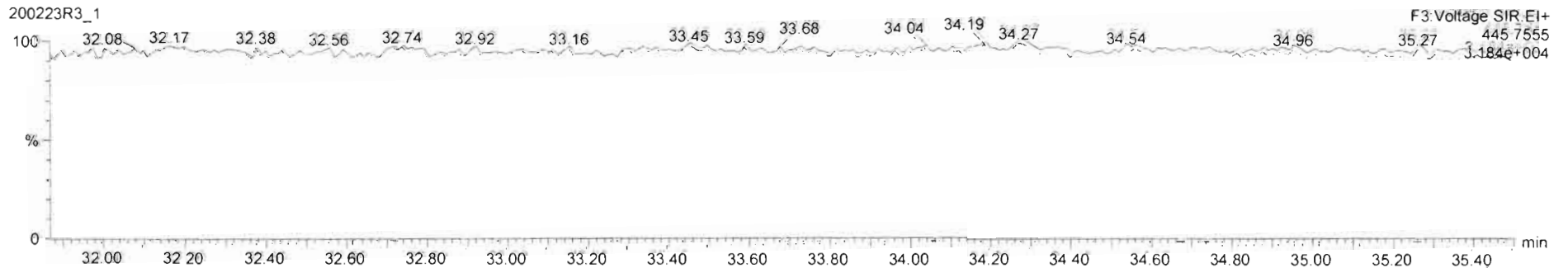
1,2,3,4,7,8-HxCDF



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



DPE3



Dataset: Untitled

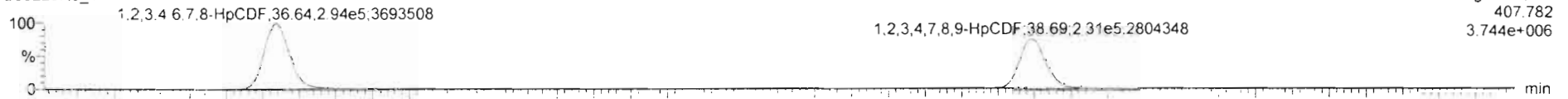
Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time

Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

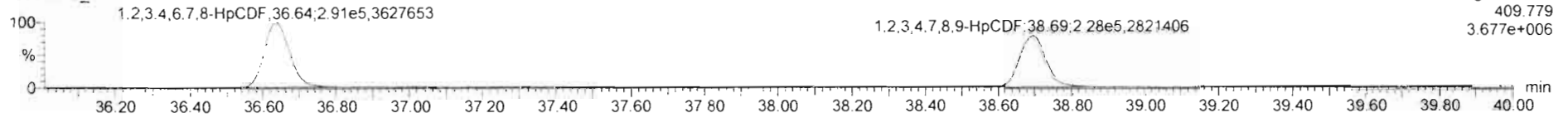
Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200223R3_1

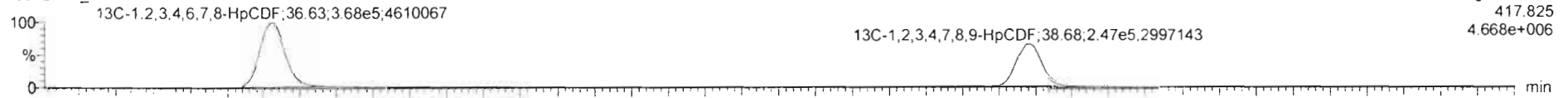


200223R3_1

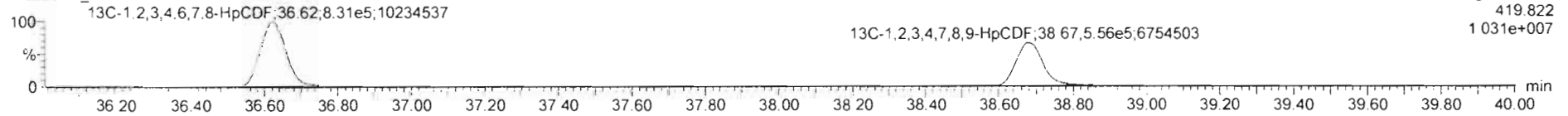


13C-1,2,3,4,6,7,8-HpCDF

200223R3_1

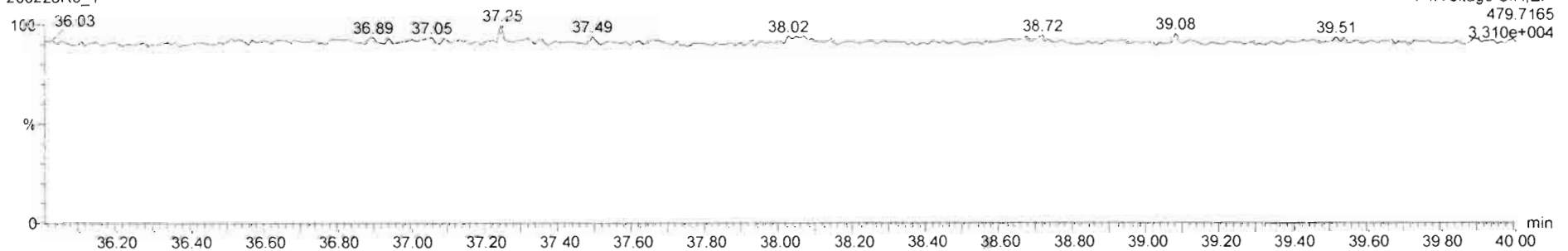


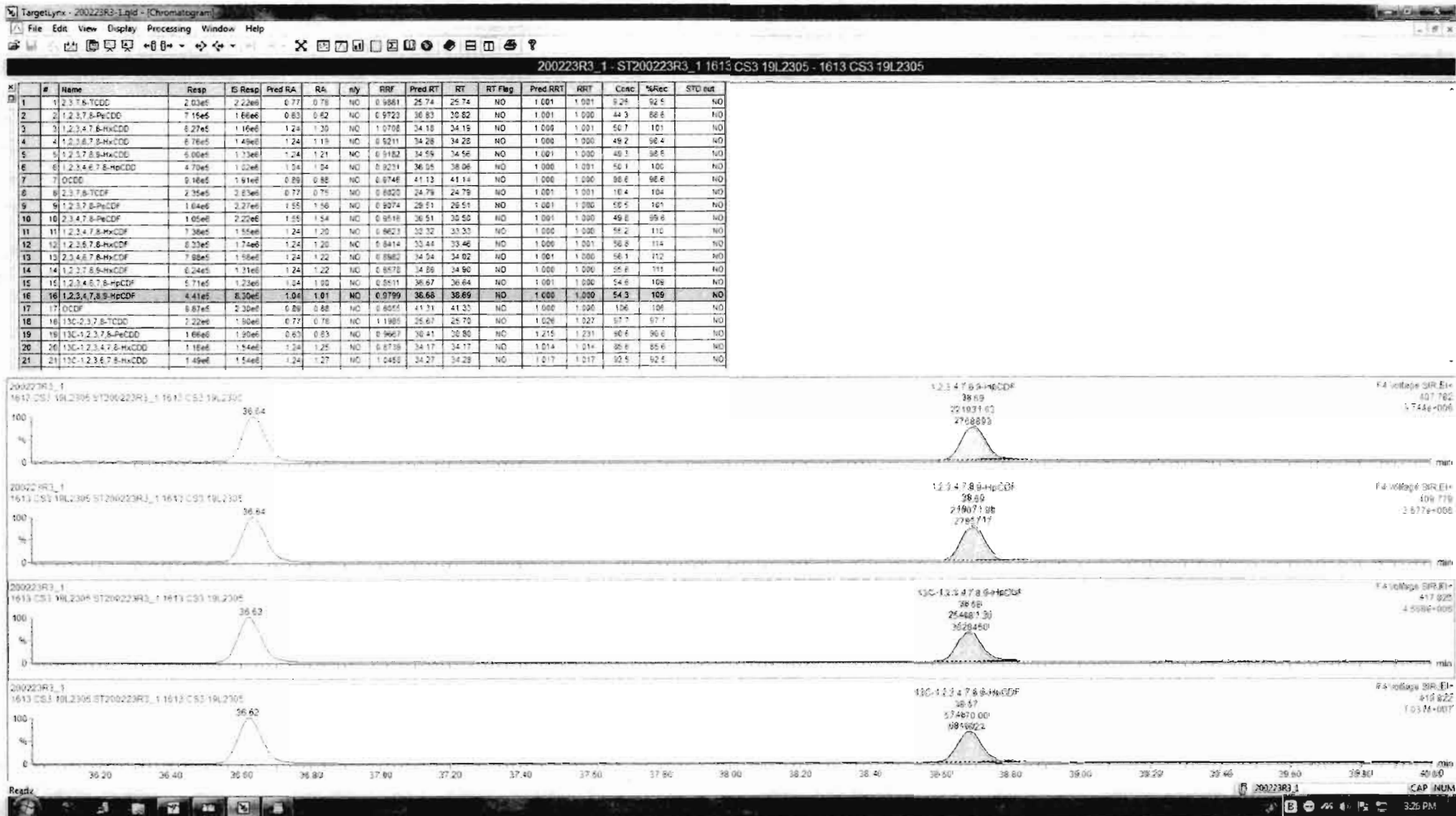
200223R3_1



DPE4

200223R3_1





#	Name	Resp	IS Resp	Pred RA	RA	aly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	2.03e5	2.22e6	0.77	0.78	NO	0.9581	25.74	25.74	NO	1.001	1.001	9.25	92.5	NO
2	1,2,3,7,8-PeCDD	7.15e5	1.66e6	0.63	0.62	NO	0.9723	30.83	30.82	NO	1.001	1.000	44.3	88.6	NO
3	1,2,3,4,7,8-HxCDD	6.27e5	1.16e6	1.24	1.30	NO	1.0785	34.18	34.19	NO	1.000	1.001	50.7	101	NO
4	1,2,3,6,7,8-HxCDD	6.76e5	1.48e6	1.24	1.19	NO	0.9211	34.28	34.26	NO	1.000	1.000	49.2	98.4	NO
5	1,2,3,7,8-HxCDD	6.00e5	1.33e6	1.24	1.21	NO	0.9182	34.59	34.56	NO	1.001	1.000	49.3	98.6	NO
6	1,2,3,4,6,7,8-HpCDD	4.70e5	1.02e6	1.04	1.04	NO	0.9271	38.05	38.06	NO	1.000	1.001	50.1	100	NO
7	OCDD	9.16e5	1.51e6	0.89	0.88	NO	0.9748	41.13	41.14	NO	1.000	1.000	98.8	98.8	NO
8	1,2,3,7,8-TCDF	2.35e5	2.43e6	0.77	0.75	NO	0.9020	24.79	24.79	NO	1.001	1.001	10.4	104	NO
9	1,2,3,7,8-PeCDF	1.04e6	2.27e6	1.55	1.56	NO	0.9074	29.51	29.51	NO	1.001	1.000	50.0	101	NO
10	1,2,3,4,7,8-PeCDF	1.05e6	2.22e6	1.55	1.54	NO	0.9515	30.51	30.50	NO	1.001	1.000	49.8	99.6	NO
11	1,2,3,4,7,8-HxCDF	7.36e5	1.55e6	1.24	1.20	NO	0.9622	33.32	33.33	NO	1.000	1.000	55.2	110	NO
12	1,2,3,6,7,8-HxCDF	8.33e5	1.74e6	1.24	1.20	NO	0.8414	33.44	33.46	NO	1.000	1.001	56.8	114	NO
13	1,2,3,4,6,7,8-HpCDF	7.88e5	1.58e6	1.24	1.22	NO	0.8962	34.04	34.02	NO	1.001	1.000	56.1	112	NO
14	1,2,3,7,8,9-HxCDF	6.24e5	1.31e6	1.24	1.22	NO	0.9570	34.85	34.80	NO	1.000	1.000	55.6	111	NO
15	1,2,3,4,6,7,8-HpCDF	5.71e5	1.23e6	1.04	1.00	NO	0.8511	36.67	36.64	NO	1.001	1.000	54.8	109	NO
16	1,2,3,4,7,8,9-HpCDF	4.41e5	8.70e5	1.04	1.01	NO	0.9795	38.68	38.65	NO	1.000	1.000	54.3	105	NO
17	OCDF	9.67e5	2.30e6	0.89	0.88	NO	0.9055	41.31	41.32	NO	1.000	1.000	106	106	NO
18	13C-1,2,3,7,8-TCDD	2.22e6	1.90e6	0.77	0.79	NO	1.1985	25.67	25.70	NO	1.026	1.027	97.7	97.7	NO
19	13C-1,2,3,7,8-PeCDD	1.06e6	1.90e6	0.63	0.63	NO	0.9667	30.41	30.80	NO	1.215	1.231	90.6	90.6	NO
20	13C-1,2,3,4,7,8-HxCDD	1.16e6	1.54e6	1.24	1.25	NO	0.8738	34.17	34.17	NO	1.014	1.014	85.6	85.6	NO
21	13C-1,2,3,6,7,8-HxCDD	1.49e6	1.54e6	1.24	1.27	NO	1.0458	34.27	34.28	NO	1.017	1.017	92.5	92.5	NO



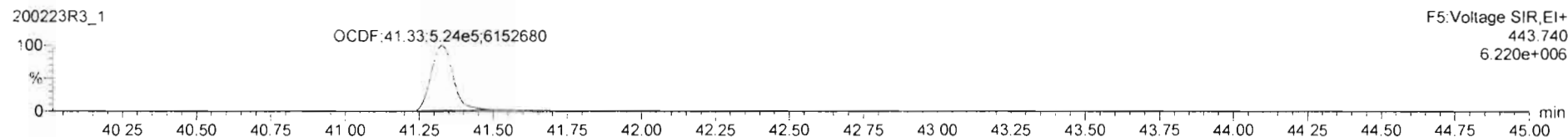
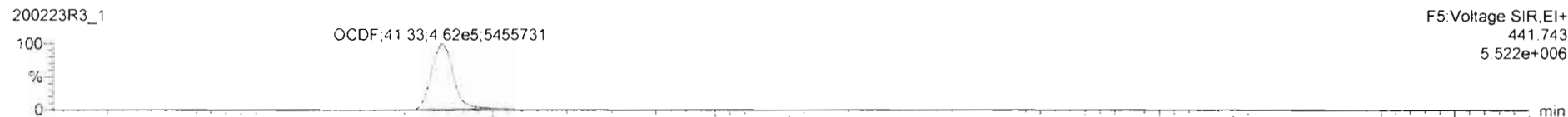
Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time

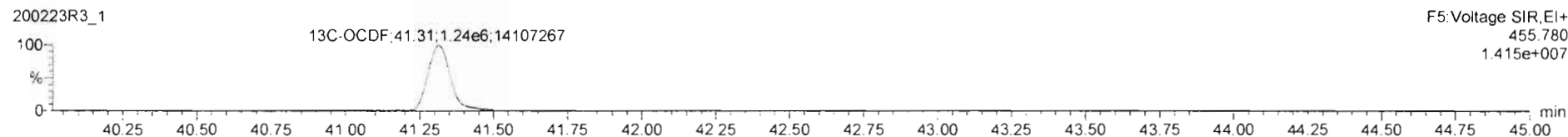
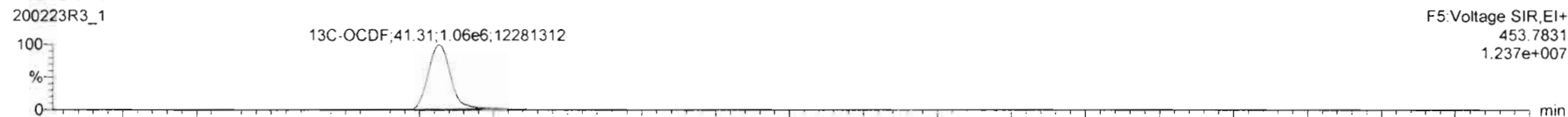
Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

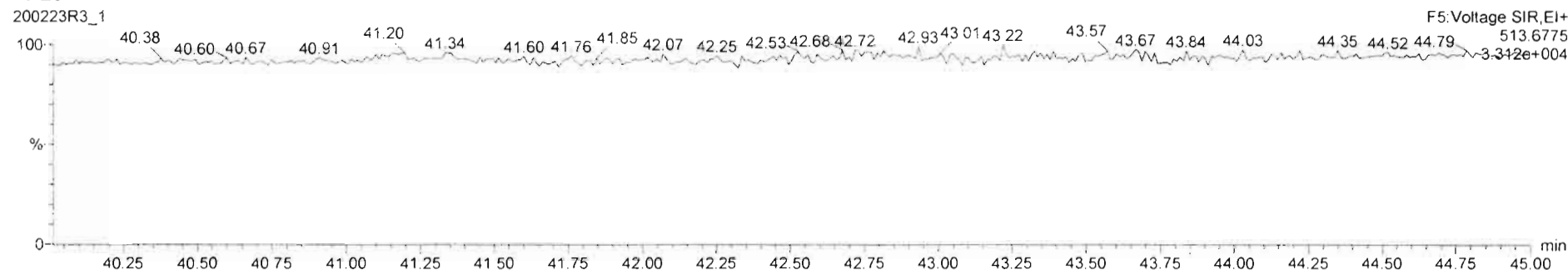
OCDF



13C-OCDF



DPE5

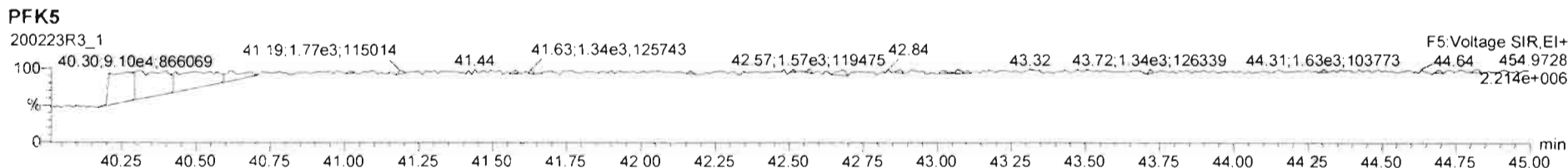
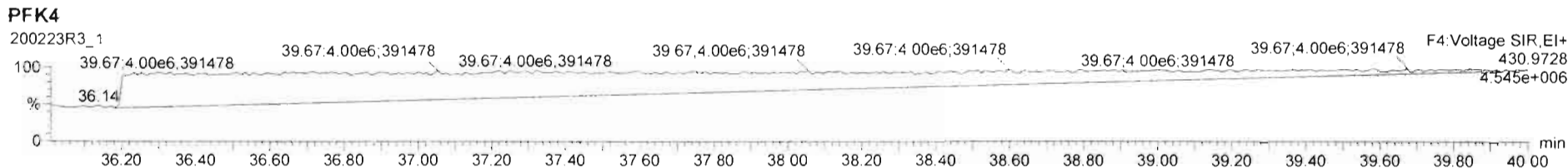
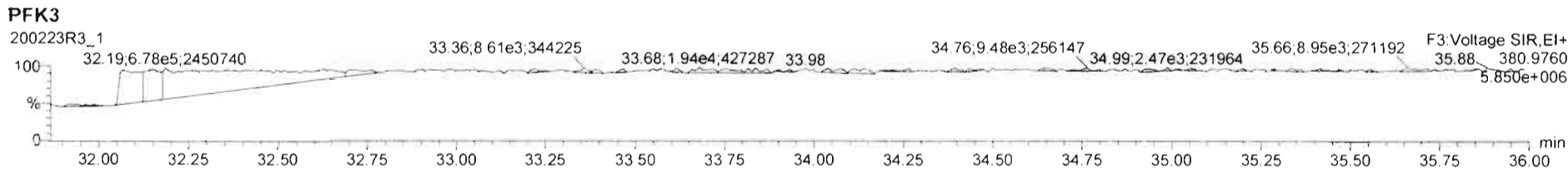
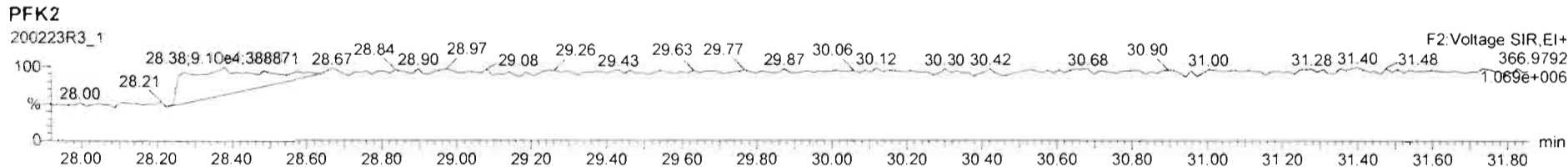
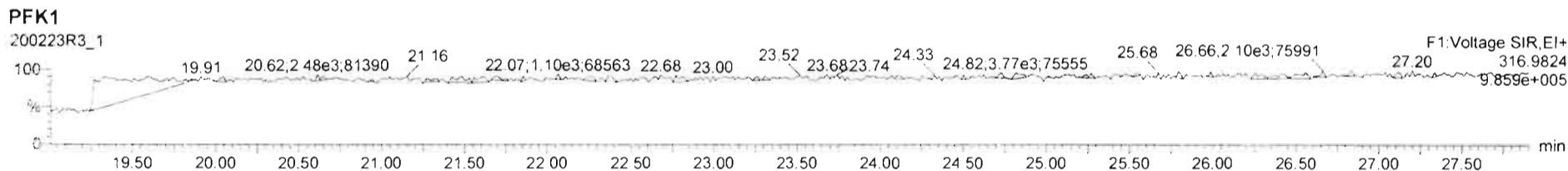


Dataset: Untitled

Last Altered: Monday, February 24, 2020 15:23:01 Pacific Standard Time

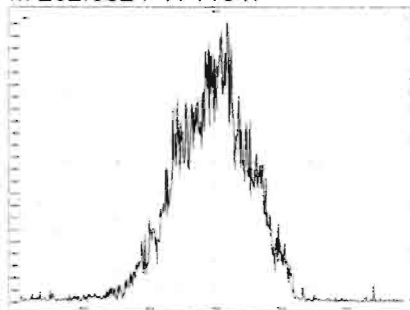
Printed: Monday, February 24, 2020 15:23:15 Pacific Standard Time

Name: 200223R3_1, Date: 24-Feb-2020, Time: 03:35:44, ID: ST200223R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

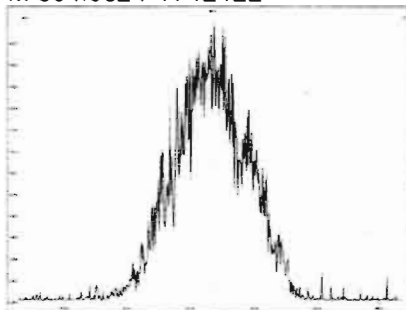


Printed: Monday, February 24, 2020 15:35:16 Pacific Standard Time

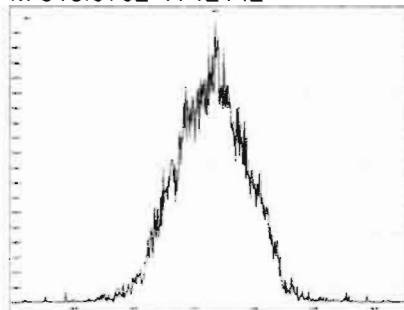
M 292.9824 R 11547



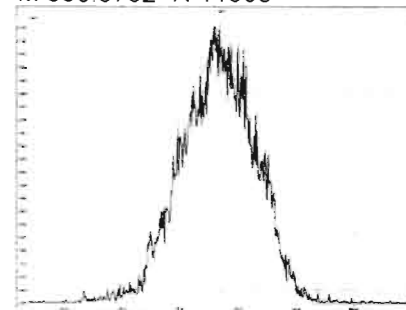
M 304.9824 R 12122



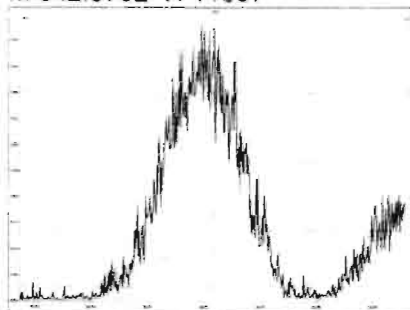
M 318.9792 R 12142



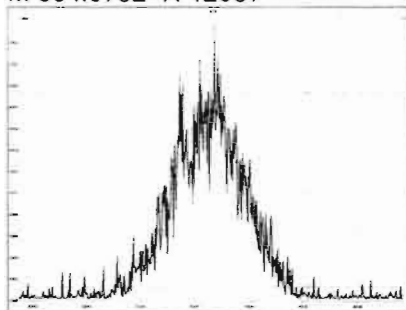
M 330.9792 R 11905



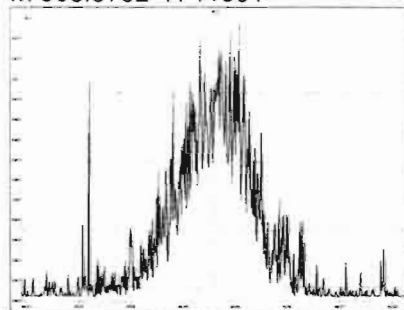
M 342.9792 R 11937



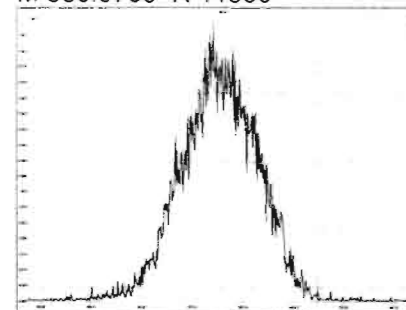
M 354.9792 R 12997



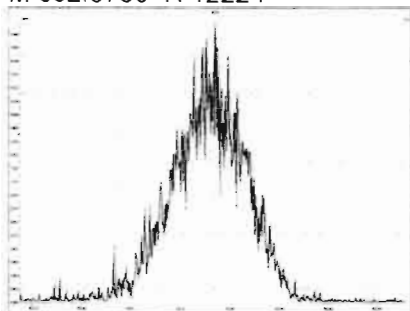
M 366.9792 R 11801



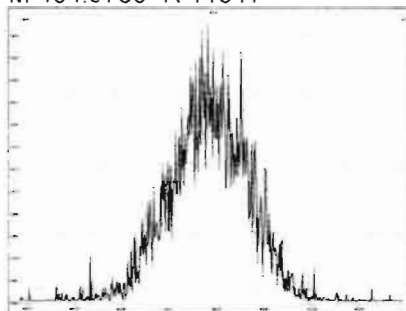
M 380.9760 R 11390



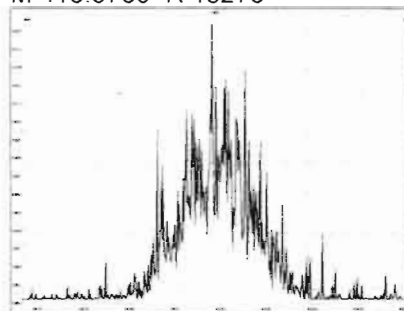
M 392.9760 R 12224



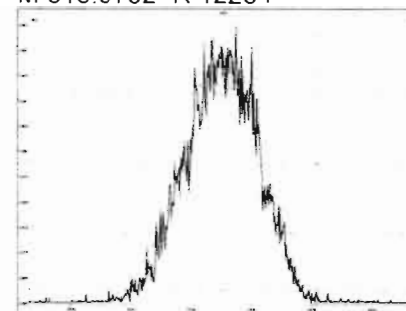
M 404.9760 R 11917



M 416.9760 R 13276

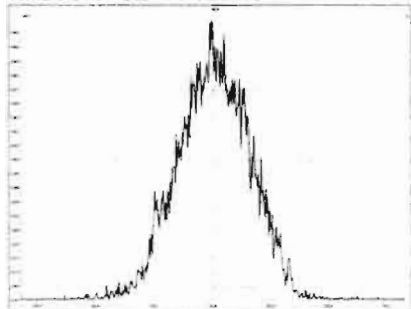


M 318.9792 R 12254

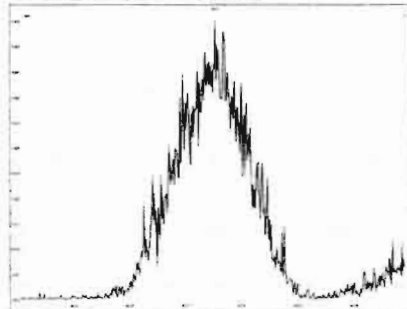


Printed: Monday, February 24, 2020 15:35:16 Pacific Standard Time

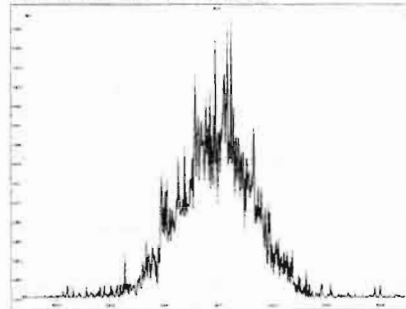
M 330.9792 R 12225



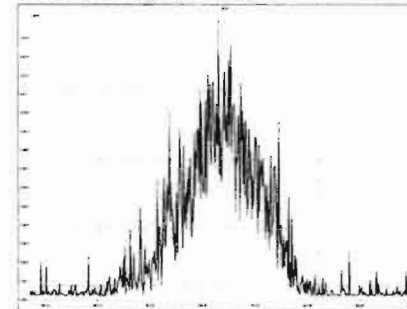
M 342.9792 R 11876



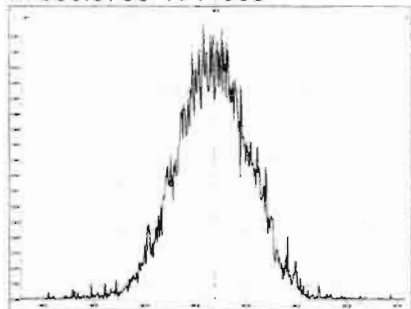
M 354.9792 R 12548



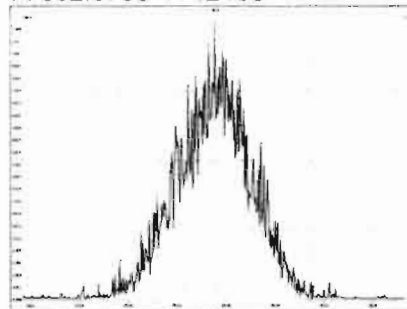
M 366.9792 R 12695



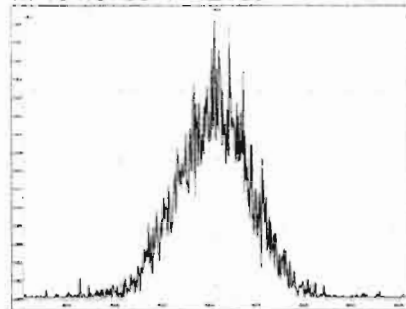
M 380.9760 R 11688



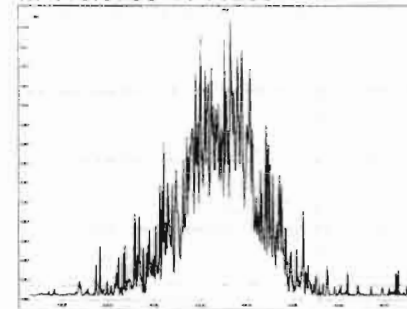
M 392.9760 R 12138



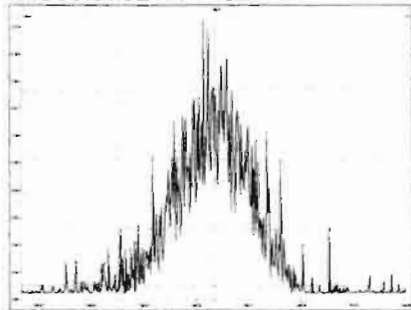
M 404.9760 R 12400



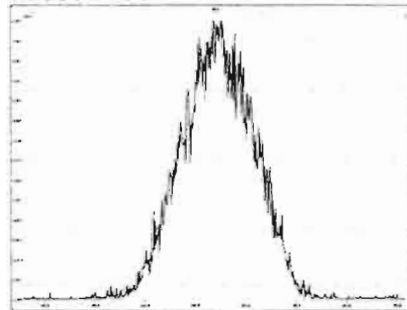
M 416.9760 R 11609



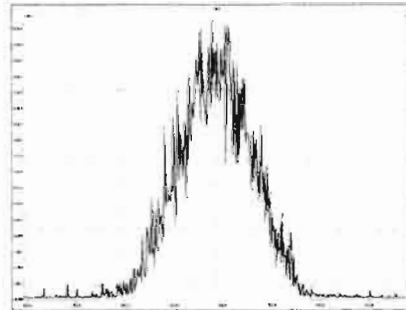
M 366.9792 R 11827



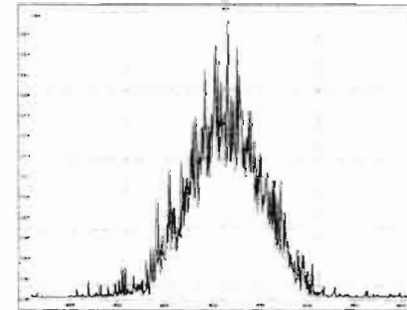
M 380.9760 R 12168



M 392.9760 R 12165

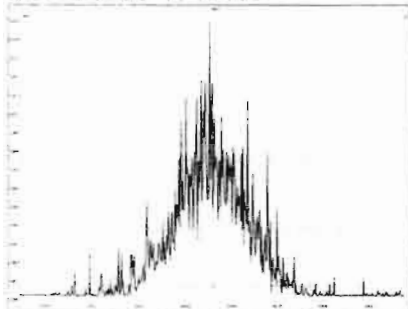


M 404.9760 R 12627

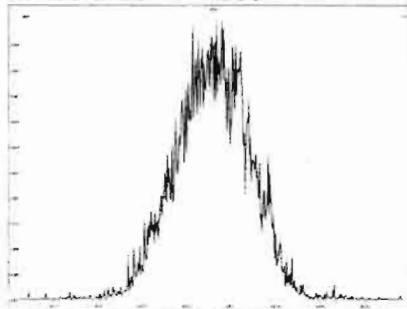


Printed: Monday, February 24, 2020 15:35:16 Pacific Standard Time

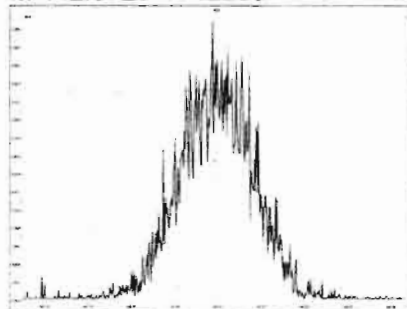
M 416.9760 R 13199



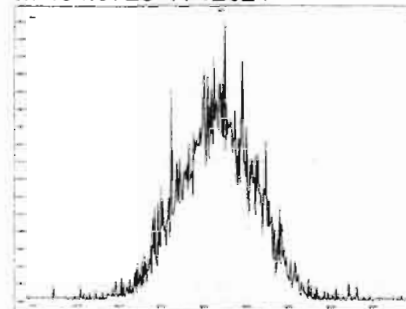
M 430.9728 R 11963



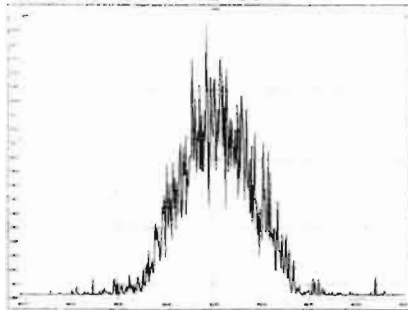
M 442.9728 R 12205



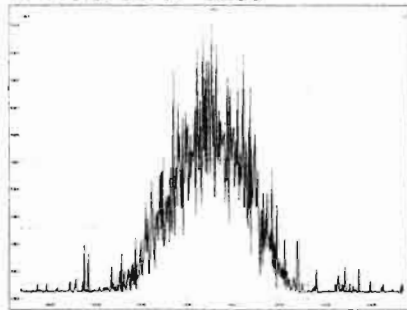
M 454.9728 R 12021



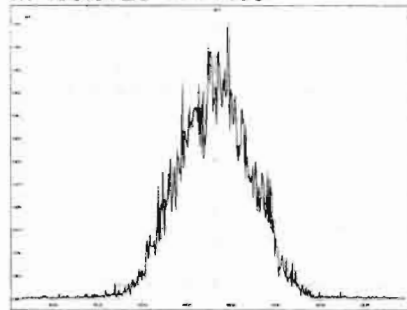
M 404.9760 R 12788



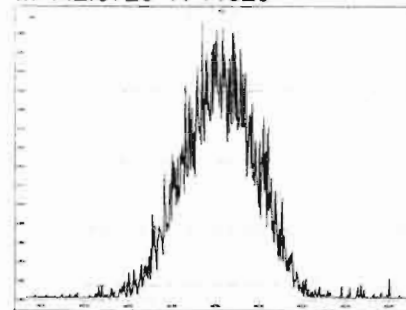
M 416.9760 R 12256



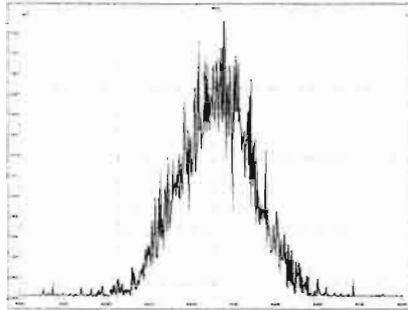
M 430.9728 R 11468



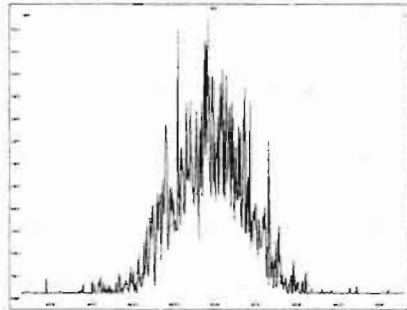
M 442.9728 R 11823



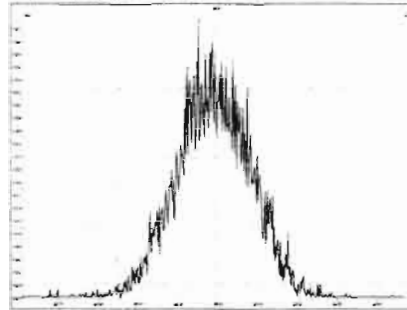
M 454.9728 R 12077



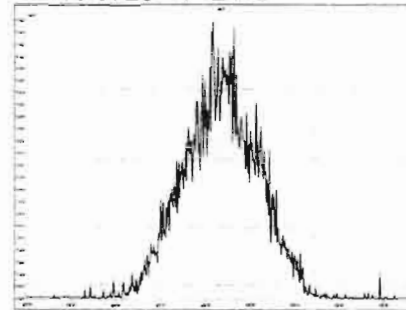
M 466.9728 R 12755



M 480.9696 R 11849

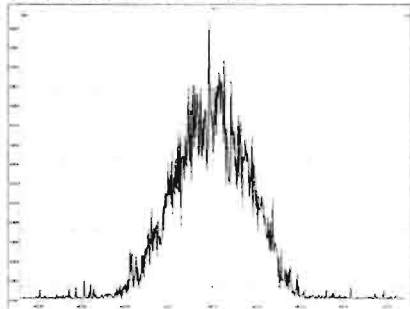


M 430.9728 R 12186

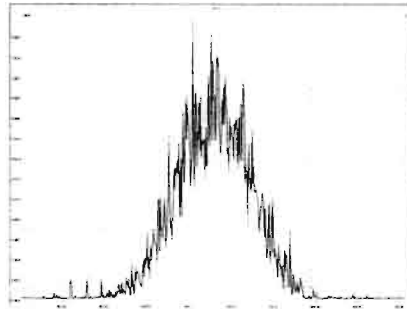


Printed: Monday, February 24, 2020 15:35:16 Pacific Standard Time

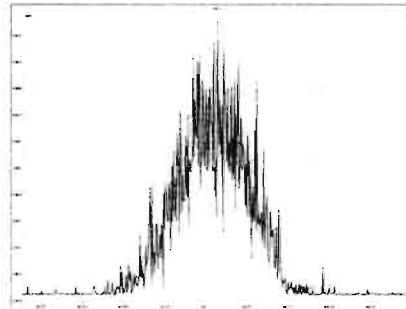
M 442.9728 R 11907



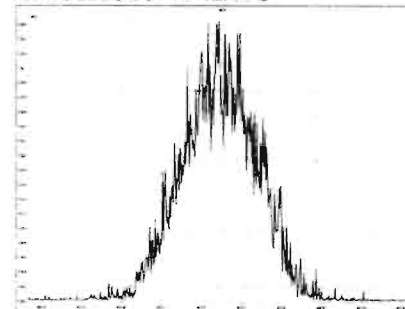
M 454.9728 R 12345



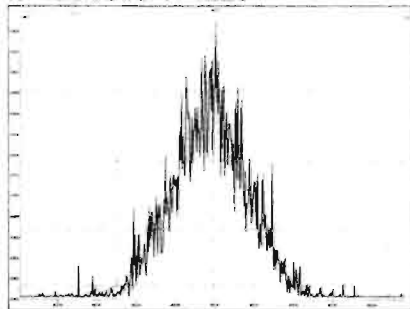
M 466.9728 R 11169



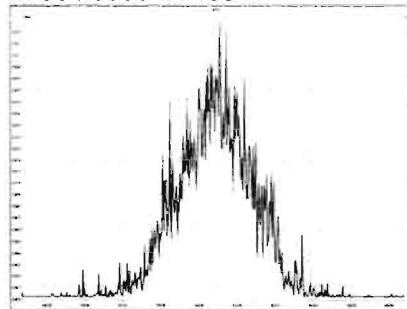
M 480.9696 R 12170



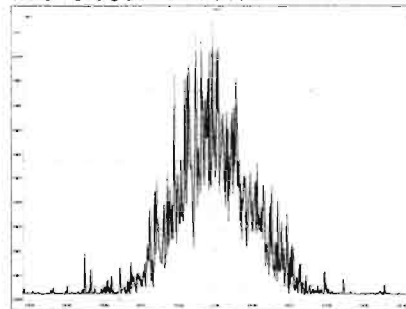
M 492.9696 R 12261



M 504.9696 R 13011



M 516.9697 R 14177



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200224R1-1

Reviewed By: C7 02/25/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GPB</u>	<u>GPB</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?	<u>GPB</u>	

Mass resolution ≥
 5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly? NA

GC Break <20% NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours NA

Comments:

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-1.qld

Last Altered: Tuesday, February 25, 2020 08:16:41 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:20:45 Pacific Standard Time

GRB 02/25/2020

C7 02/25/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.98e5	2.22e6	0.77	NO	0.988	25.77	25.76	NO	1.001	1.001	9.0610	90.6	NO
2	2 1,2,3,7,8-PeCDD	7.34e5	1.70e6	0.62	NO	0.972	30.86	30.85	NO	1.001	1.000	44.306	88.6	NO
3	3 1,2,3,4,7,8-HxCDD	7.05e5	1.29e6	1.23	NO	1.07	34.22	34.22	NO	1.000	1.000	51.239	102	NO
4	4 1,2,3,6,7,8-HxCDD	7.22e5	1.61e6	1.25	NO	0.921	34.31	34.33	NO	1.000	1.001	48.595	97.2	NO
5	5 1,2,3,7,8,9-HxCDD	6.55e5	1.46e6	1.24	NO	0.918	34.62	34.59	NO	1.001	1.000	48.996	98.0	NO
6	6 1,2,3,4,6,7,8-HpCDD	5.55e5	1.17e6	0.98	NO	0.923	38.09	38.09	NO	1.000	1.000	51.556	103	NO
7	7 OCDD	1.11e6	2.24e6	0.87	NO	0.975	41.17	41.18	NO	1.000	1.000	101.15	101	NO
8	8 2,3,7,8-TCDF	2.39e5	2.83e6	0.75	NO	0.802	24.82	24.82	NO	1.001	1.001	10.522	105	NO
9	9 1,2,3,7,8-PeCDF	1.06e6	2.35e6	1.57	NO	0.907	29.54	29.54	NO	1.001	1.000	49.788	99.6	NO
10	10 2,3,4,7,8-PeCDF	1.07e6	2.23e6	1.53	NO	0.952	30.55	30.53	NO	1.001	1.000	50.128	100	NO
11	11 1,2,3,4,7,8-HxCDF	7.77e5	1.62e6	1.21	NO	0.862	33.35	33.37	NO	1.000	1.001	55.634	111	NO
12	12 1,2,3,6,7,8-HxCDF	8.50e5	1.78e6	1.21	NO	0.841	33.47	33.49	NO	1.000	1.001	56.843	114	NO
13	13 2,3,4,6,7,8-HxCDF	8.83e5	1.75e6	1.21	NO	0.898	34.08	34.05	NO	1.001	1.000	56.290	113	NO
14	14 1,2,3,7,8,9-HxCDF	6.87e5	1.44e6	1.22	NO	0.858	34.92	34.94	NO	1.000	1.000	55.494	111	NO
15	15 1,2,3,4,6,7,8-HpCDF	6.46e5	1.39e6	1.01	NO	0.851	36.70	36.67	NO	1.001	1.000	54.502	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	5.45e5	9.81e5	1.02	NO	0.980	38.72	38.74	NO	1.000	1.001	56.735	113	NO
17	17 OCDF	1.14e6	2.61e6	0.87	NO	0.806	41.35	41.36	NO	1.000	1.000	108.22	108	NO
18	18 13C-2,3,7,8-TCDD	2.22e6	1.87e6	0.77	NO	1.20	25.72	25.74	NO	1.026	1.026	98.685	98.7	NO
19	19 13C-1,2,3,7,8-PeCDD	1.70e6	1.87e6	0.63	NO	0.967	30.47	30.83	NO	1.215	1.230	94.029	94.0	NO
20	20 13C-1,2,3,4,7,8-HxCDD	1.29e6	1.59e6	1.28	NO	0.874	34.20	34.21	NO	1.014	1.014	92.275	92.3	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.61e6	1.59e6	1.26	NO	1.05	34.31	34.31	NO	1.017	1.017	96.797	96.8	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.46e6	1.59e6	1.25	NO	0.974	34.61	34.58	NO	1.026	1.025	93.833	93.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.17e6	1.59e6	1.05	NO	0.747	38.19	38.08	NO	1.132	1.129	97.920	97.9	NO
24	24 13C-OCDD	2.24e6	1.59e6	0.91	NO	0.707	41.09	41.17	NO	1.218	1.220	199.16	99.6	NO
25	25 13C-2,3,7,8-TCDF	2.83e6	2.67e6	0.78	NO	1.07	24.90	24.79	NO	0.993	0.989	99.740	99.7	NO
26	26 13C-1,2,3,7,8-PeCDF	2.35e6	2.67e6	1.58	NO	1.00	29.49	29.52	NO	1.176	1.177	87.843	87.8	NO
27	27 13C-2,3,4,7,8-PeCDF	2.23e6	2.67e6	1.57	NO	0.962	30.46	30.51	NO	1.215	1.217	87.125	87.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.62e6	1.59e6	0.51	NO	1.05	33.33	33.35	NO	0.988	0.989	96.846	96.8	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.78e6	1.59e6	0.52	NO	1.19	33.43	33.47	NO	0.991	0.992	93.740	93.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.75e6	1.59e6	0.52	NO	1.07	34.04	34.04	NO	1.009	1.009	102.81	103	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.44e6	1.59e6	0.51	NO	0.922	34.95	34.92	NO	1.036	1.035	98.149	98.1	NO

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-1.qld

Last Altered: Tuesday, February 25, 2020 08:16:41 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:20:45 Pacific Standard Time

Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.39e6	1.59e6	0.45	NO	0.767	36.70	36.66	NO	1.088	1.087	113.87	114	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	9.81e5	1.59e6	0.44	NO	0.552	38.72	38.72	NO	1.148	1.148	111.41	111	NO
34	34 13C-OCDF	2.61e6	1.59e6	0.88	NO	0.789	41.32	41.35	NO	1.225	1.226	207.12	104	NO
35	35 37Cl-2,3,7,8-TCDD	2.11e5	1.87e6			1.18	25.75	25.76	NO	1.027	1.027	9.5771	95.8	NO
36	36 13C-1,2,3,4-TCDD	1.87e6	1.87e6	0.79	NO	1.00	25.11	25.08	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.67e6	2.67e6	0.79	NO	1.00	23.37	23.30	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.59e6	1.59e6	0.52	NO	1.00	33.71	33.73	NO	1.000	1.000	100.00	100	YES gk
39	39 Total Tetra-Dioxins		2.22e6			0.988	24.62		NO	0.000		80.489		NO
40	40 Total Penta-Dioxins		1.70e6			0.972	29.96		NO	0.000		192.04		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		240.34		NO
42	42 Total Hepta-Dioxins		1.17e6			0.923	37.64		NO	0.000		135.93		NO
43	43 Total Tetra-Furans		2.83e6			0.802	23.61		NO	0.000		50.797		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000		98.262		NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		172.45		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		314.25		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		111.24		NO

Dataset: U:\VG12.PRO\Results\200224R1\200224R1-1-CPSM.qld

Last Altered: Monday, February 24, 2020 17:52:26 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:18:19 Pacific Standard Time

Method: Untitled 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\ddb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.60
2	2 1,2,8,9-TCDD (Last)	26.75
3	3 1,2,4,7,9-PeCDD (First)	28.59
4	4 1,2,3,8,9-PeCDD (Last)	31.23
5	5 1,2,4,6,7,9-HxCDD (First)	32.75
6	6 1,2,3,7,8,9-HxCDD (Last)	34.59
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.06
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.09
9	9 1,3,6,8-TCDF (First)	19.55
10	10 1,2,8,9-TCDF (Last)	26.90
11	11 1,3,4,6,8-PeCDF (First)	26.87
12	12 1,2,3,8,9-PeCDF (Last)	31.48
13	13 1,2,3,4,6,8-HxCDF (First)	32.20
14	14 1,2,3,7,8,9-HxCDF (Last)	34.94
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.67
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.74

Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:18:33 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:19:47 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

	Name	ID	Acq.Date	Acq.Time
1	(A) 200224R1_1	ST200224R1_1 1613 CS3 19L2305	24-Feb-20	17:02:58
2	200224R1_2	ST200224R1_2 1613 CS3 19I1604	24-Feb-20	17:50:40
3	200224R1_3	SOLVENT BLANK	24-Feb-20	18:37:13
4	200224R1_4	SOLVENT BLANK	24-Feb-20	19:24:34
5	(A) 200224R1_5	B0B0071-BLK1 Method Blank 10	24-Feb-20	20:11:59
6	200224R1_6	1903736-03RE1 PDI-026SC-B-04-06-191014 ...	24-Feb-20	20:59:25
7	200224R1_7	1903736-09RE1 PDI-079SC-B-00-02-191014 ...	24-Feb-20	21:46:49
8	200224R1_8	1903740-02RE1@2X PDI-031SC-B-02-04-191...	24-Feb-20	22:34:14
9	200224R1_9	1903736-02RE1@2X PDI-026SC-B-02-04-191...	24-Feb-20	23:21:39
10	200224R1_10	1903736-07RE1@2X PDI-077SC-B-04-06-191...	25-Feb-20	00:09:04
11	200224R1_11	1903736-11RE1@5X PDI-079SC-B-04-06-191...	25-Feb-20	00:56:31
12	200224R1_12	1904210-05@2X PDI-138RAB-10-19-1-19111...	25-Feb-20	01:43:57
13	200224R1_13	B9L0194-DUP1@2X Duplicate 16.07	25-Feb-20	02:31:21
14	200224R1_14	SOLVENT BLANK	25-Feb-20	03:18:47
15	200224R1_15	SOLVENT BLANK	25-Feb-20	04:06:13
16	200224R1_16	SOLVENT BLANK	25-Feb-20	04:53:37
17	200224R1_17	SOLVENT BLANK	25-Feb-20	05:41:03
18	200224R1_18	SOLVENT BLANK	25-Feb-20	06:28:29

(A) CCAL USED TO ANALYZE SELECTED SAMPLES

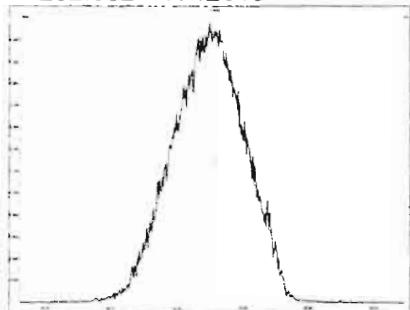
Experiment Calibration Report

MassLynx 4.1 SCN815

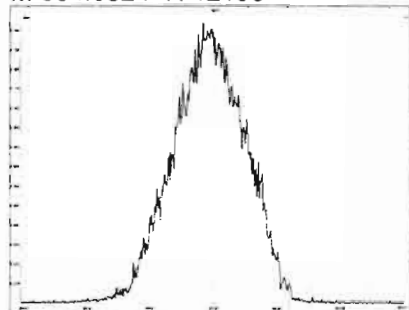
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, February 24, 2020 16:58:03 Pacific Standard Time

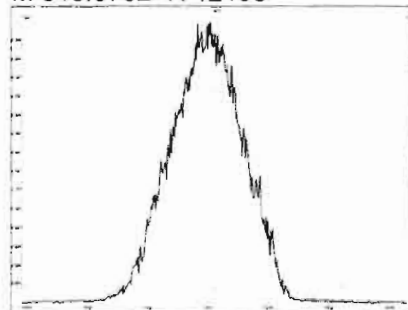
M 292.9824 R 12015



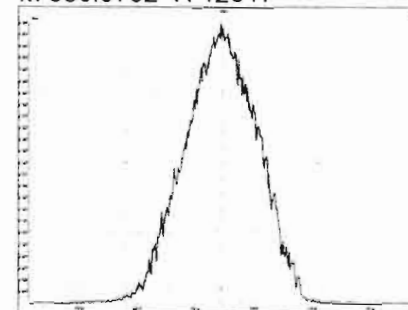
M 304.9824 R 12195



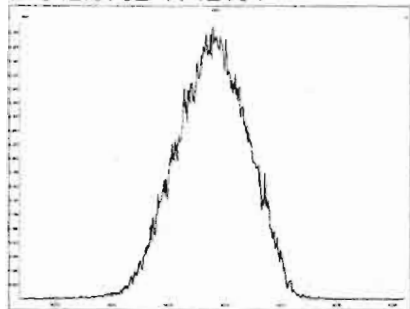
M 318.9792 R 12193



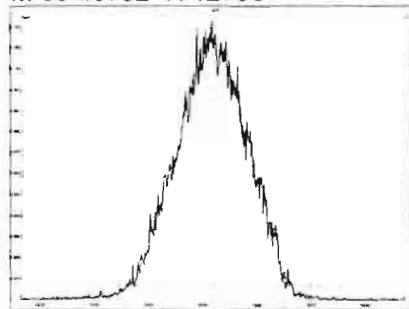
M 330.9792 R 12317



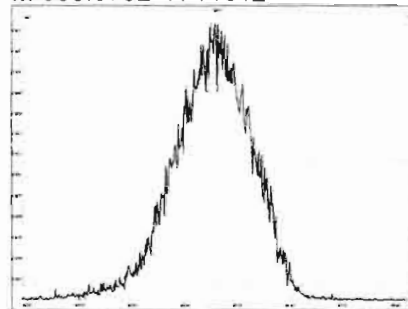
M 342.9792 R 12194



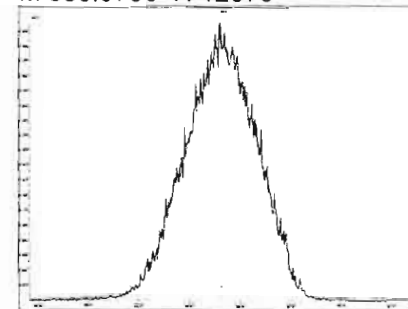
M 354.9792 R 12758



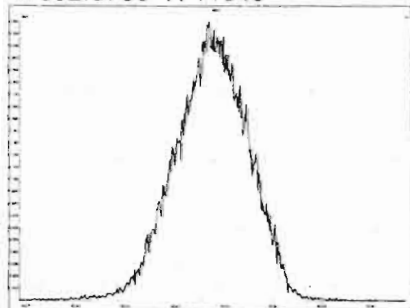
M 366.9792 R 11312



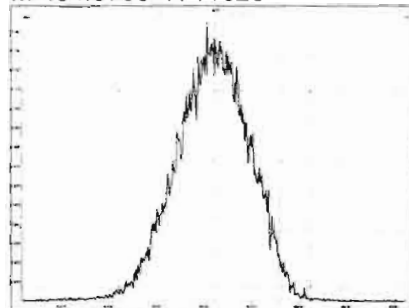
M 380.9760 R 12076



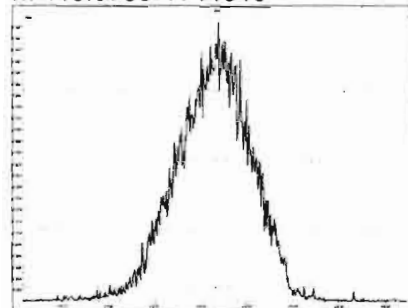
M 392.9760 R 11845



M 404.9760 R 11628



M 416.9760 R 11519



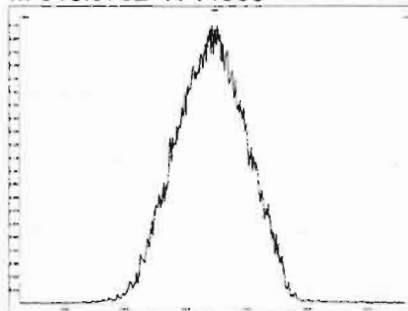
Experiment Calibration Report

MassLynx 4.1 SCN815

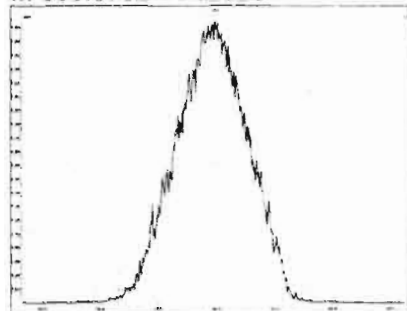
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, February 24, 2020 16:58:47 Pacific Standard Time

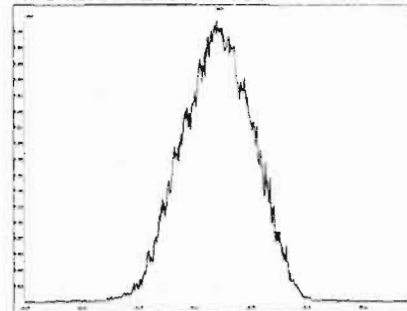
M 318.9792 R 11960



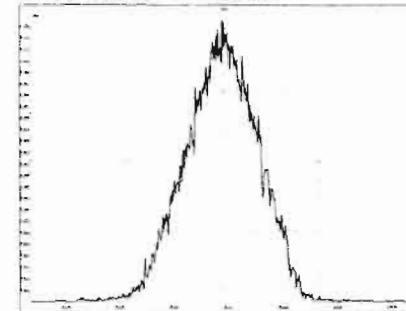
M 330.9792 R 12628



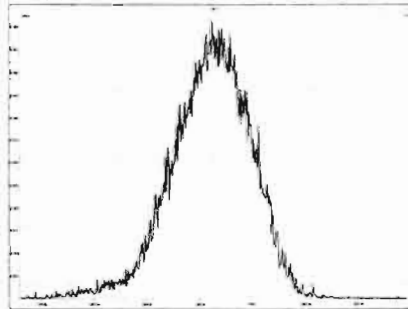
M 342.9792 R 12136



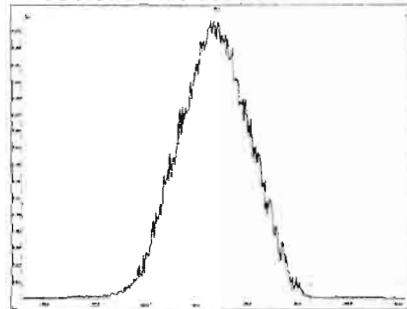
M 354.9792 R 12313



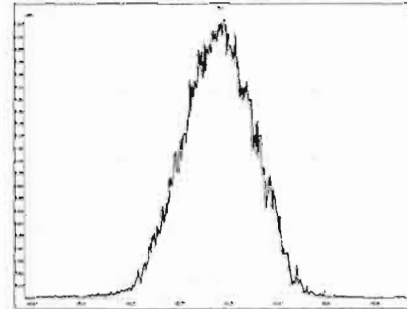
M 366.9792 R 10823



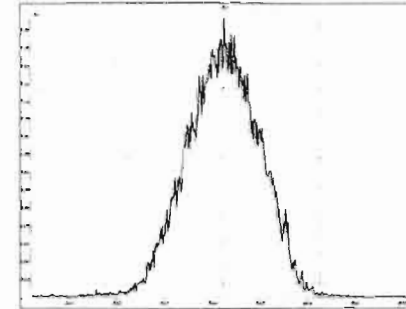
M 380.9760 R 11961



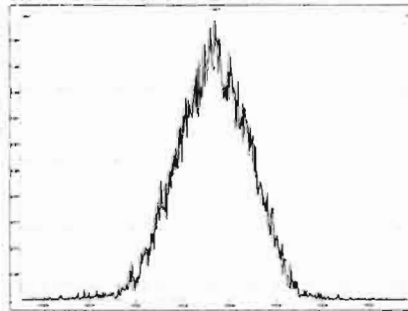
M 392.9760 R 12757



M 404.9760 R 12558



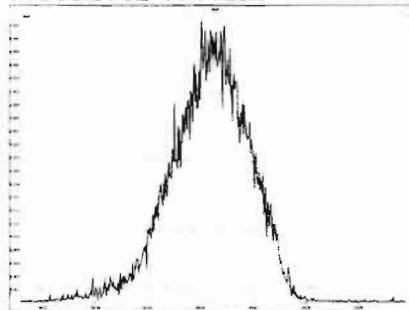
M 416.9760 R 12194



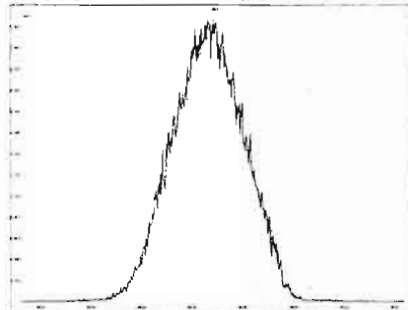
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, February 24, 2020 16:59:54 Pacific Standard Time

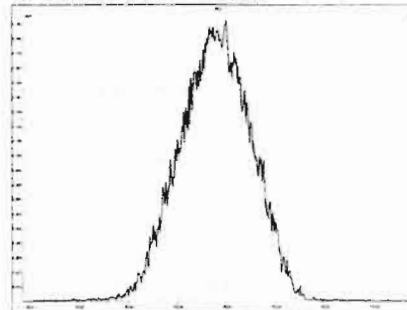
M 366.9792 R 11262



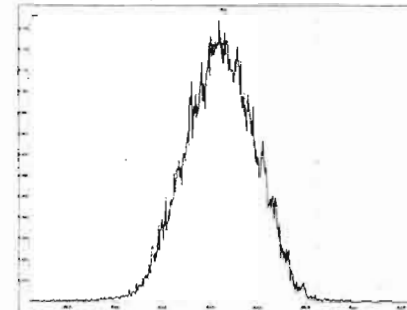
M 380.9760 R 12254



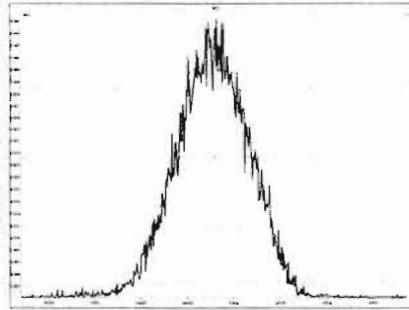
M 392.9760 R 12193



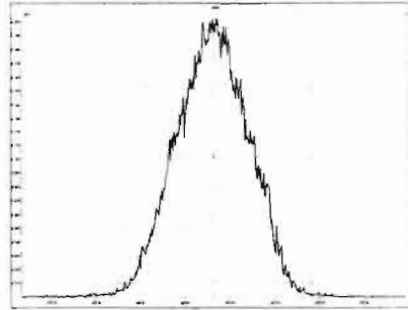
M 404.9760 R 12316



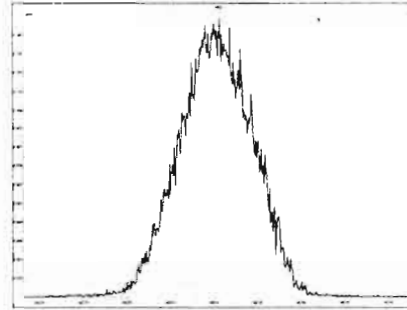
M 416.9760 R 12018



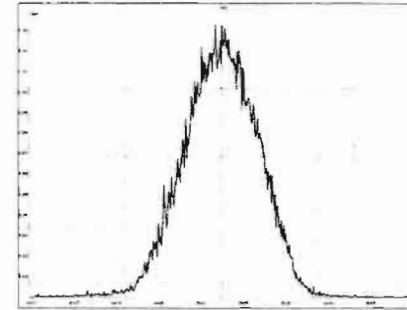
M 430.9728 R 11959



M 442.9728 R 11905



M 454.9728 R 11847



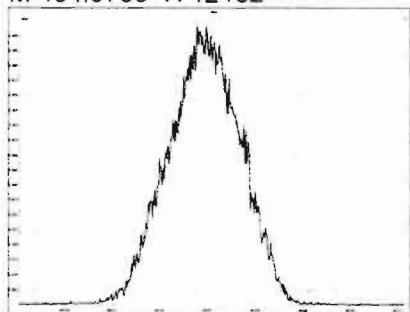
Experiment Calibration Report

MassLynx 4.1 SCN815

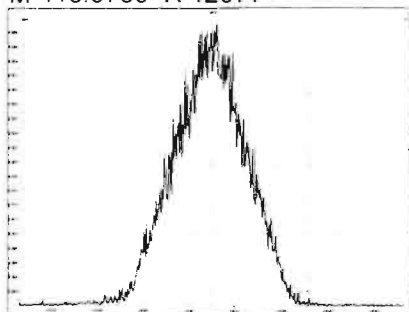
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, February 24, 2020 17:00:32 Pacific Standard Time

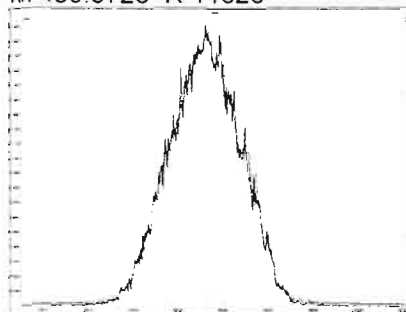
M 404.9760 R 12132



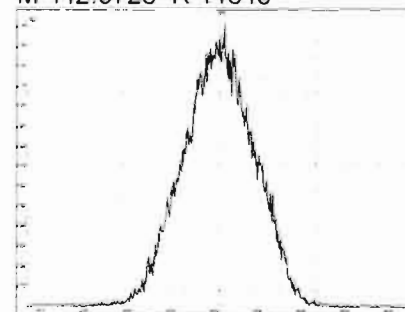
M 416.9760 R 12077



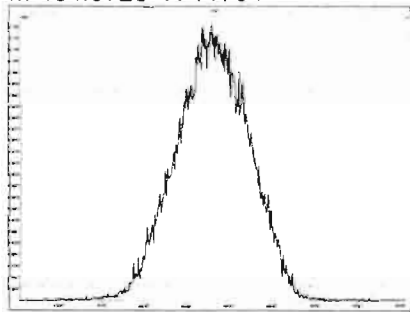
M 430.9728 R 11626



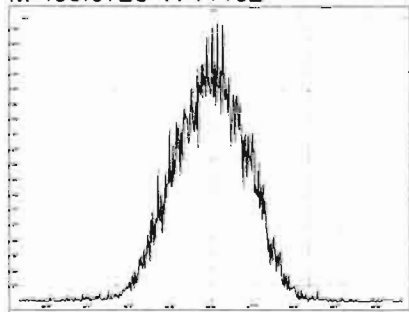
M 442.9728 R 11845



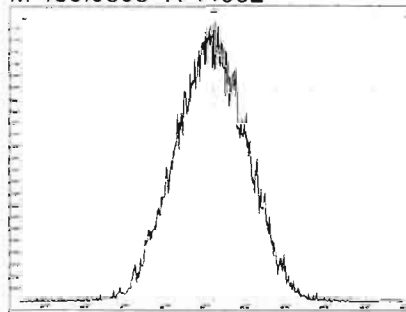
M 454.9728 R 11791



M 466.9728 R 11162



M 480.9696 R 11962



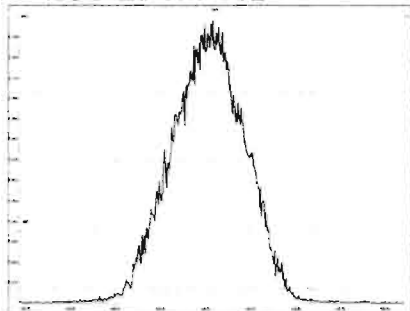
Experiment Calibration Report

MassLynx 4.1 SCN815

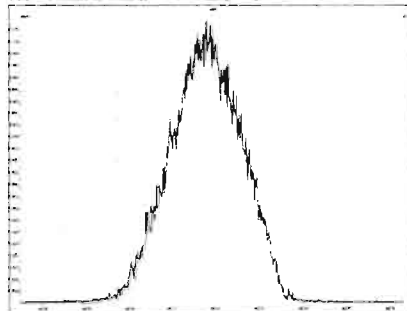
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, February 24, 2020 17:01:15 Pacific Standard Time

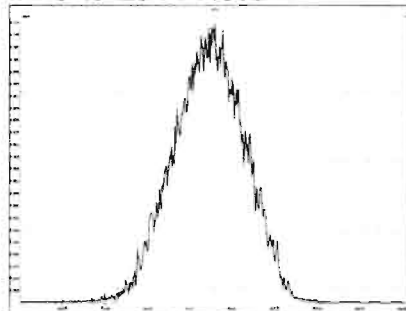
M 430.9728 R 11792



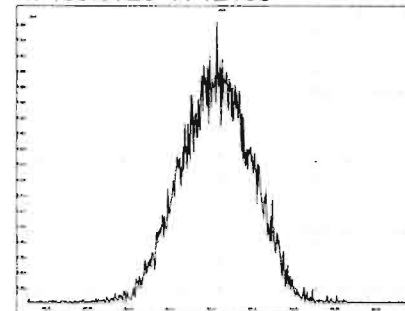
M 442.9728 R 12076



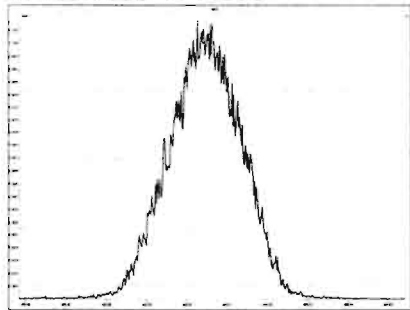
M 454.9728 R 11906



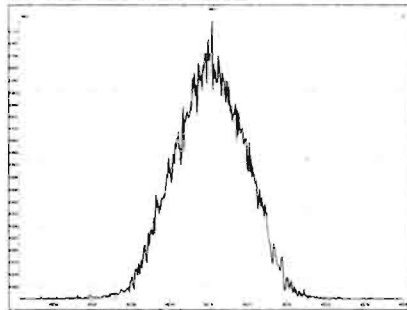
M 466.9728 R 12135



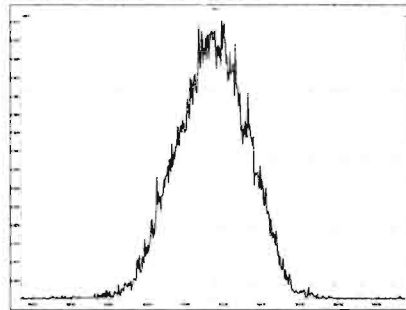
M 480.9696 R 11903



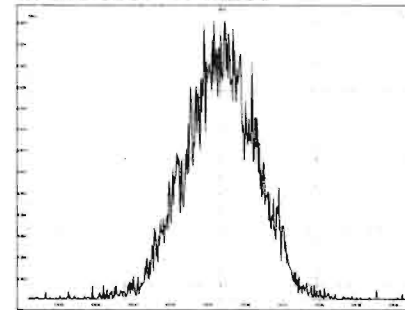
M 492.9696 R 12821



M 504.9696 R 12076



M 516.9697 R 12253



Dataset: U:\VG12.PRO\Results\200224R1\200224R1-1-CPSM.qld

Last Altered: Monday, February 24, 2020 17:52:26 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:18:19 Pacific Standard Time

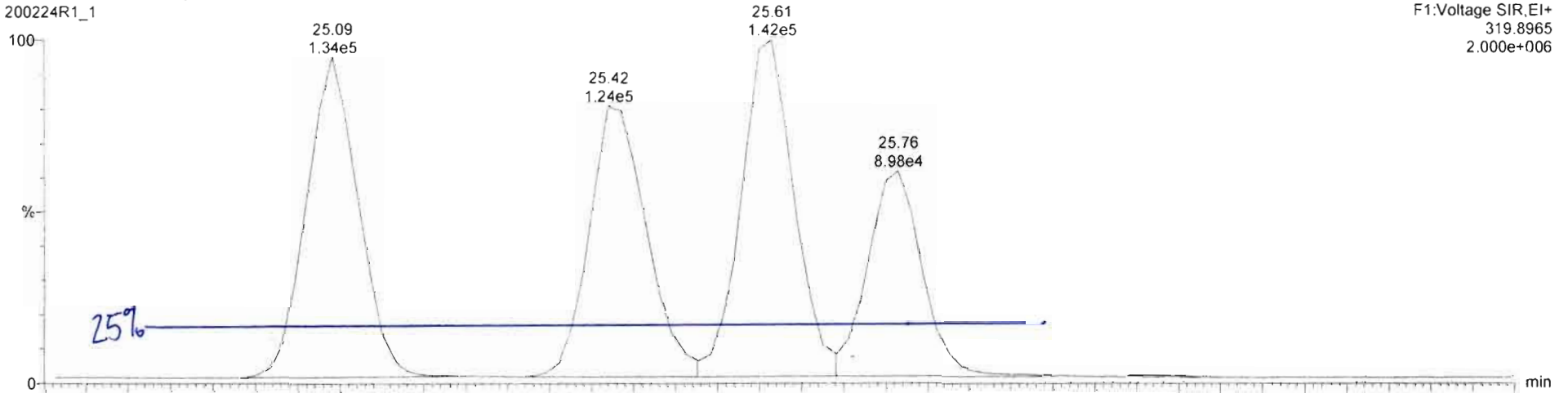
GRB 02/25/2020

Method: Untitled 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

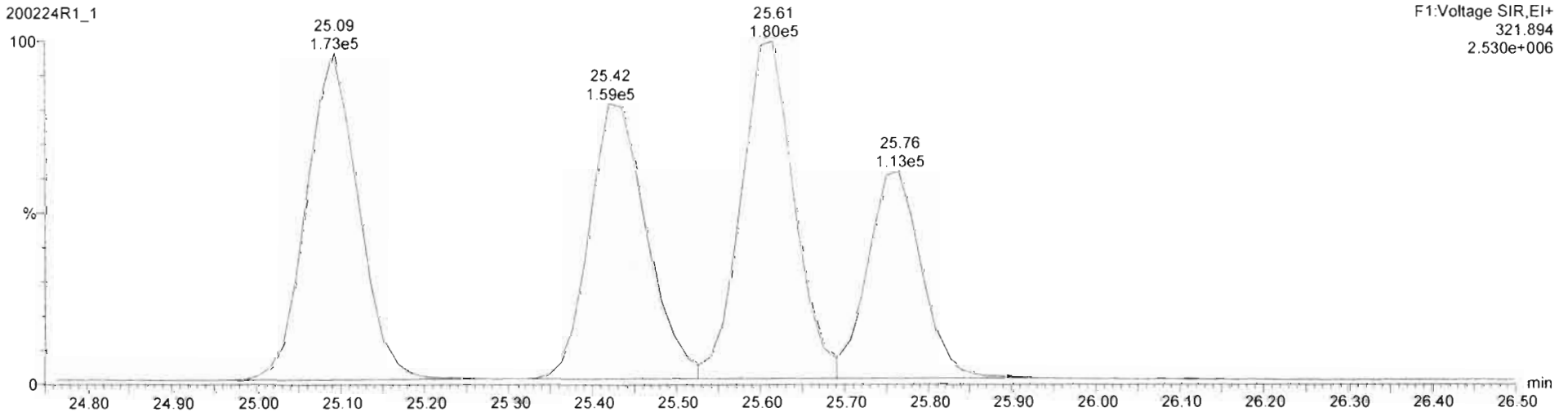
C1 02/25/2020

Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200224R1_1



200224R1_1



Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

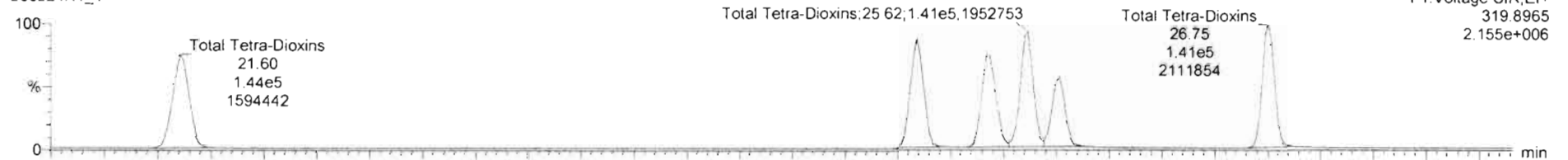
Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

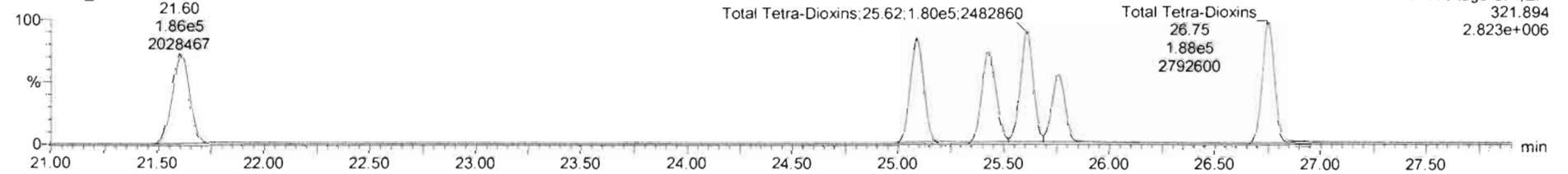
Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200224R1_1

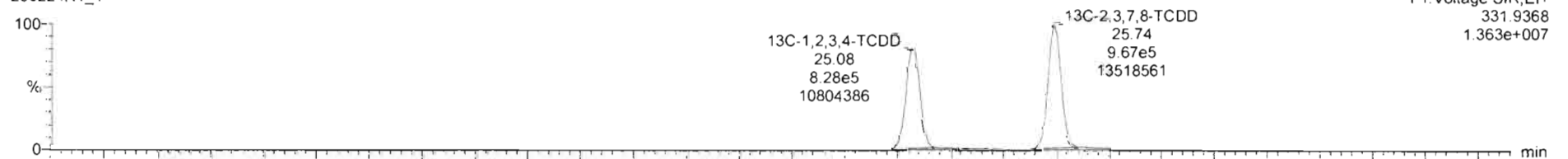


200224R1_1 Total Tetra-Dioxins

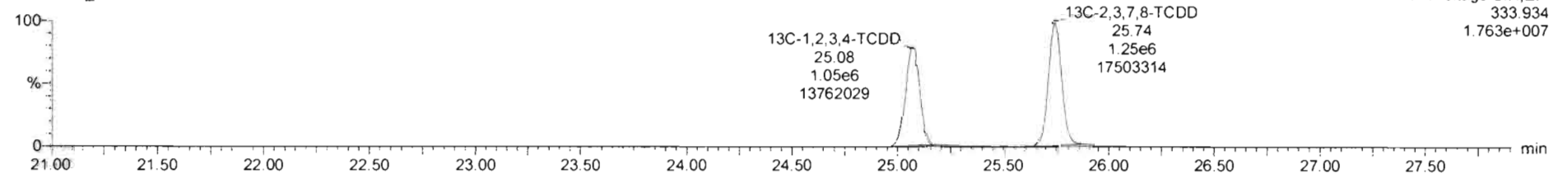


13C-2,3,7,8-TCDD

200224R1_1



200224R1_1



Dataset: Untitled

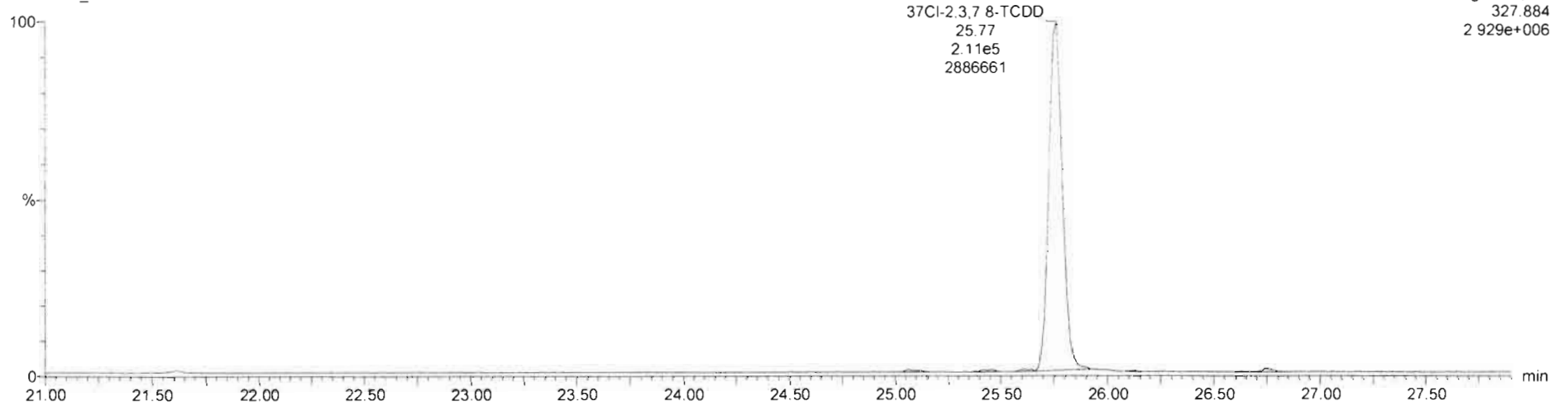
Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

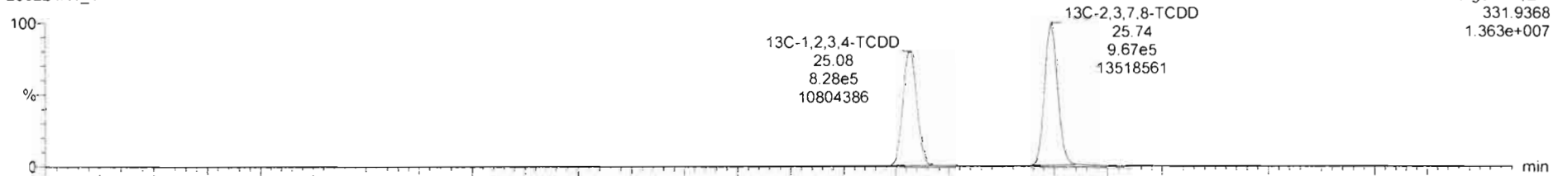
37Cl-2,3,7,8-TCDD

200224R1_1

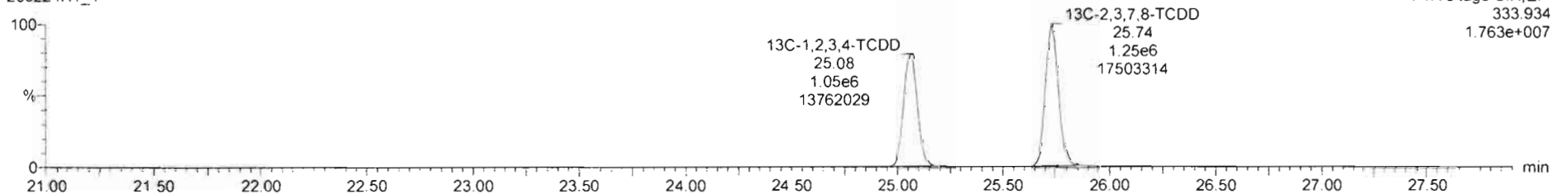


13C-1,2,3,4-TCDD

200224R1_1



200224R1_1



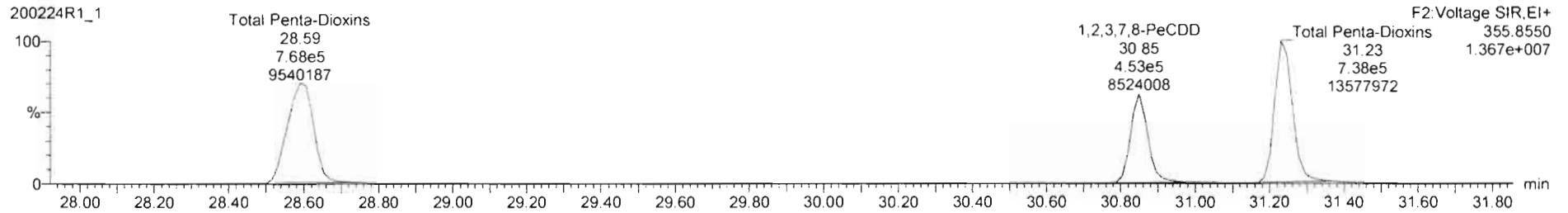
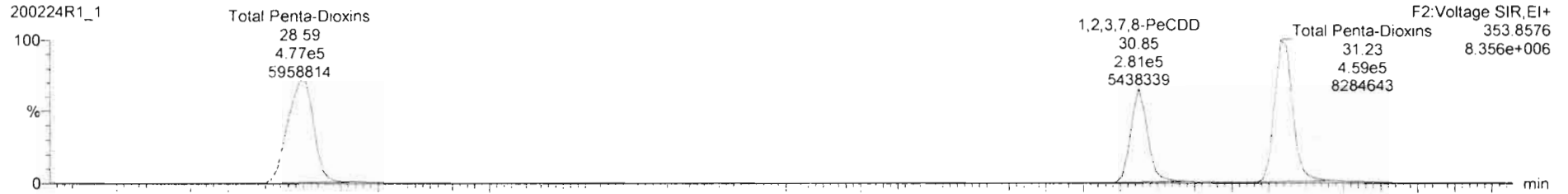
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

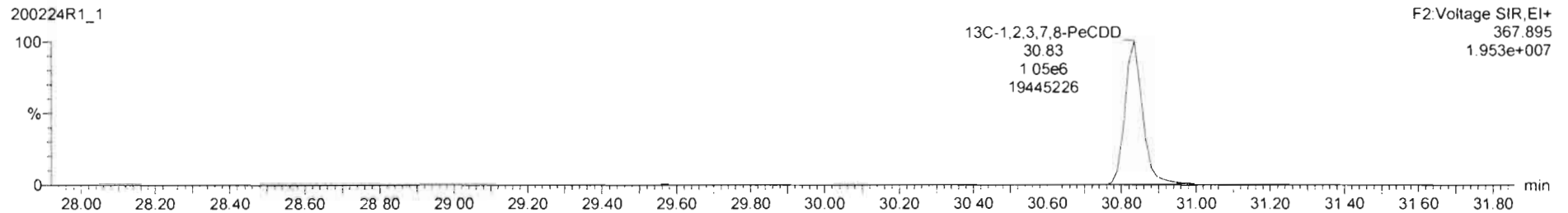
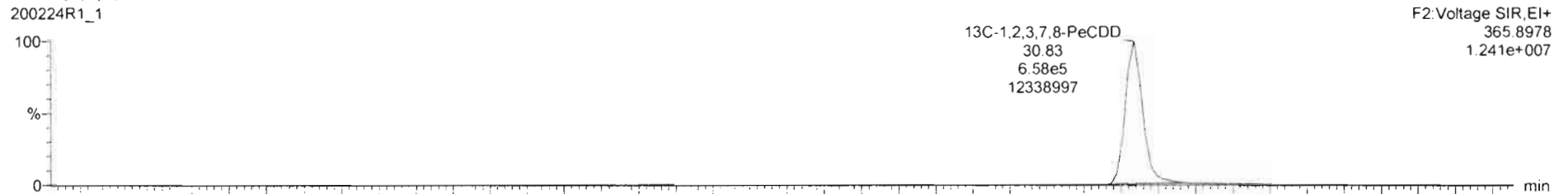
Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD



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



Dataset: Untitled

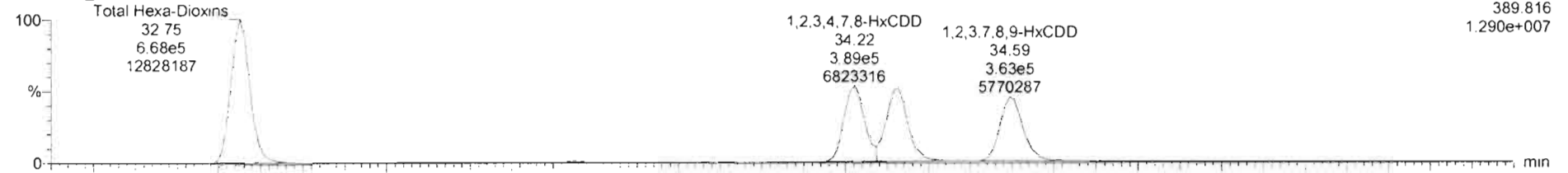
Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

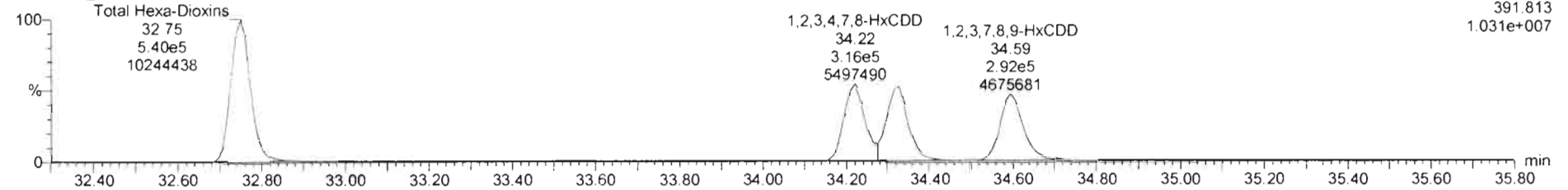
Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200224R1_1

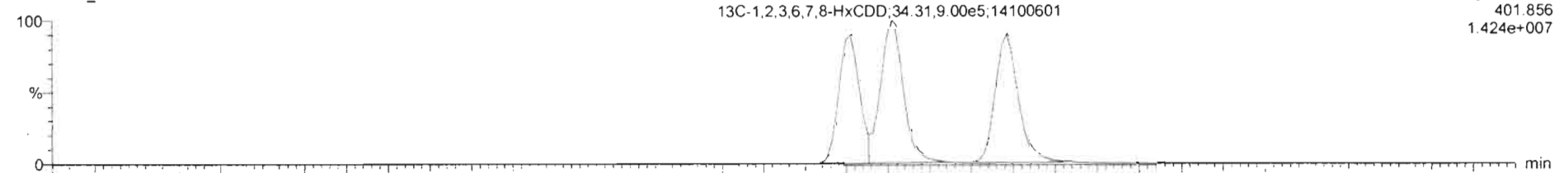


200224R1_1

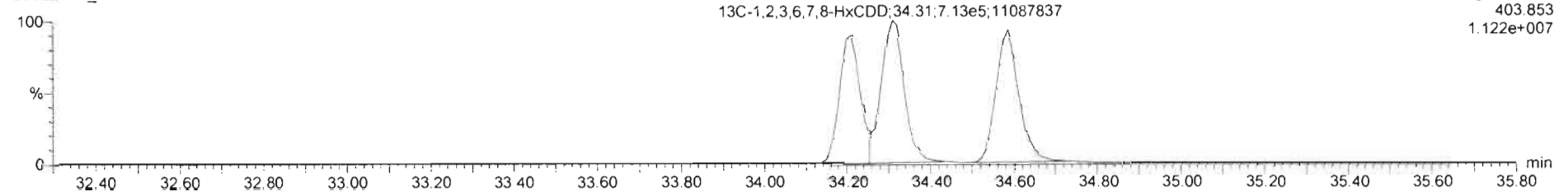


13C-1,2,3,4,7,8-HxCDD

200224R1_1



200224R1_1



Dataset: Untitled

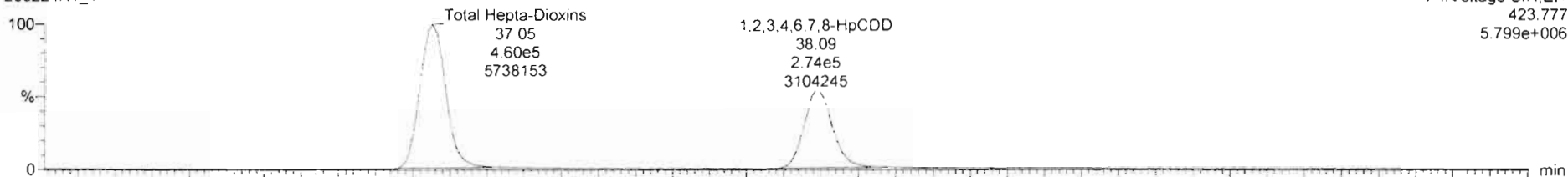
Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

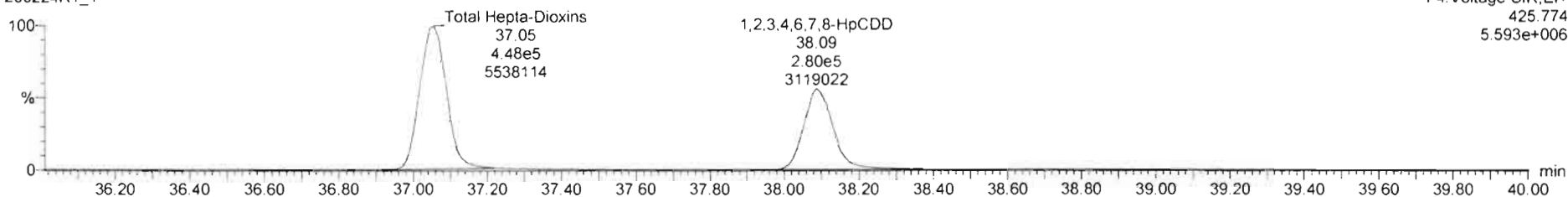
Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200224R1_1

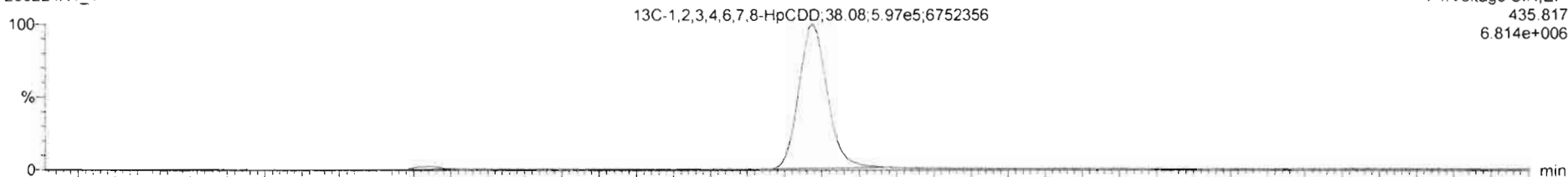


200224R1_1

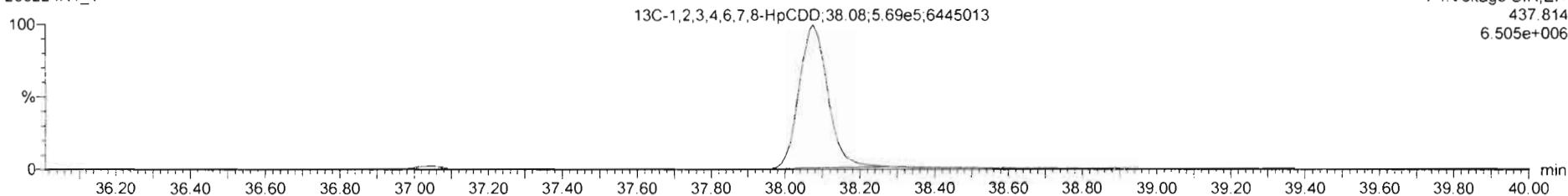


13C-1,2,3,4,6,7,8-HpCDD

200224R1_1



200224R1_1



Dataset: Untitled

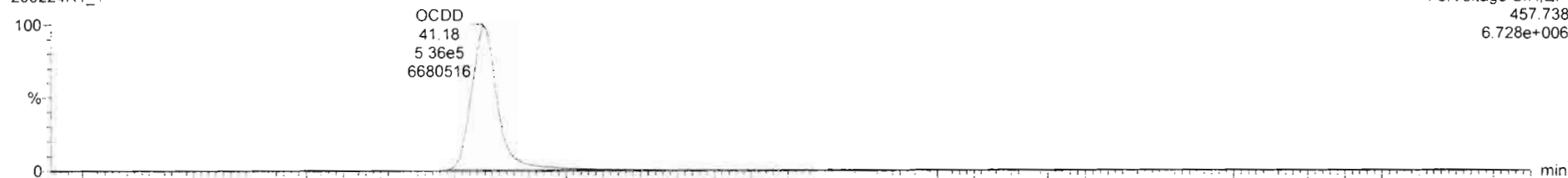
Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

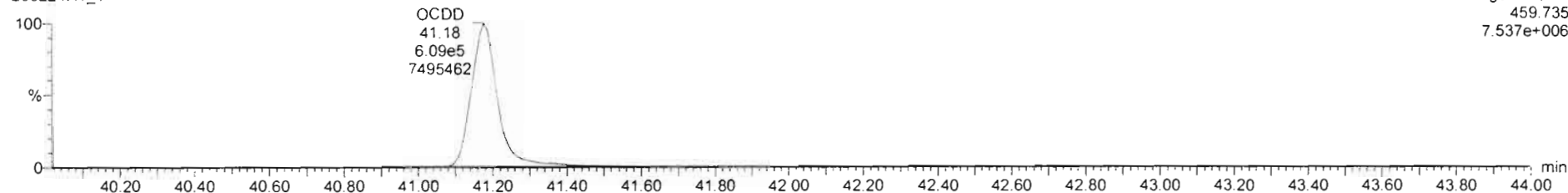
OCDD

200224R1_1



F5: Voltage SIR, EI+
457.738
6.728e+006

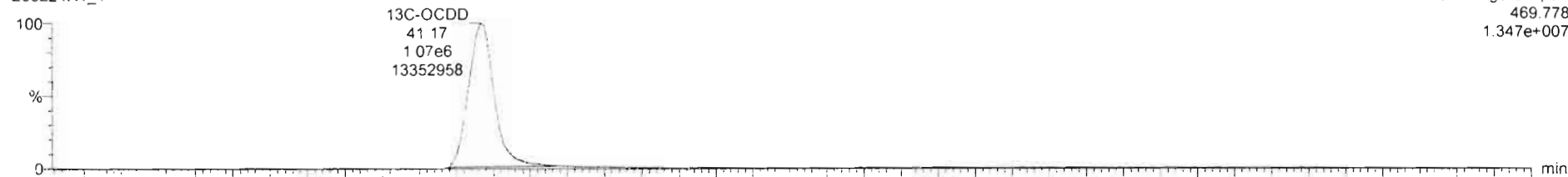
200224R1_1



F5: Voltage SIR, EI+
459.735
7.537e+006

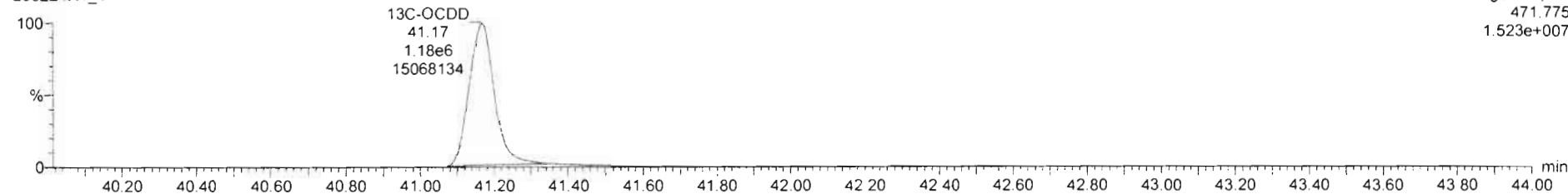
13C-OCDD

200224R1_1

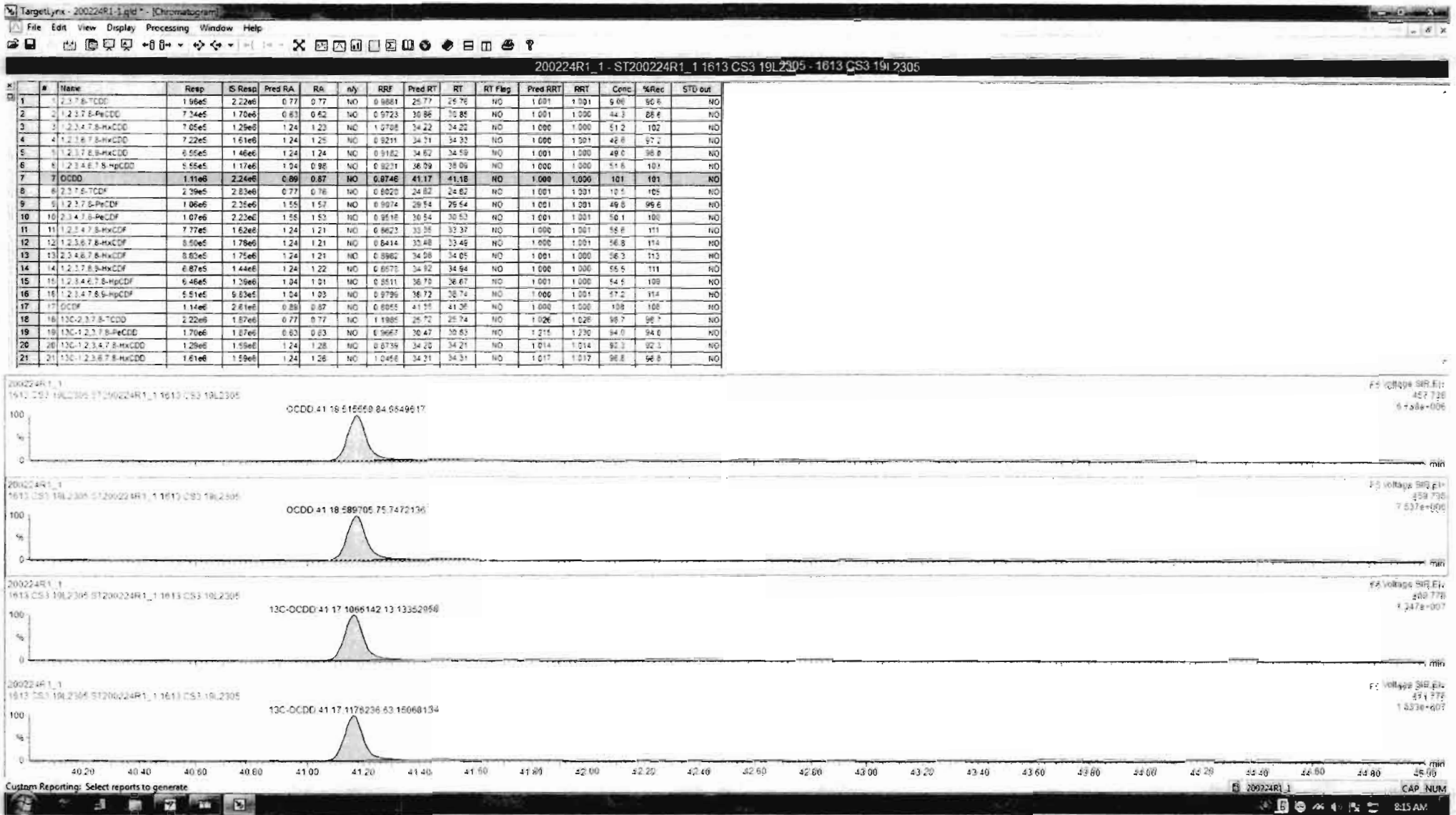


F5: Voltage SIR, EI+
469.778
1.347e+007

200224R1_1



F5: Voltage SIR, EI+
471.775
1.523e+007



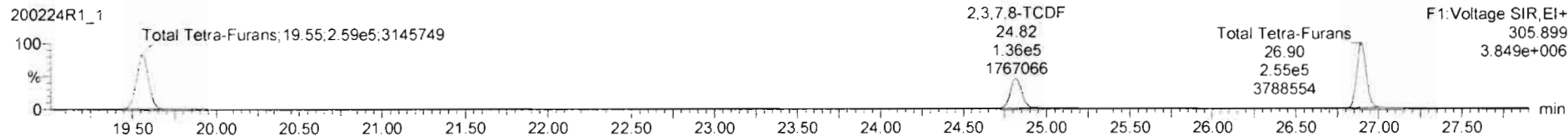
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

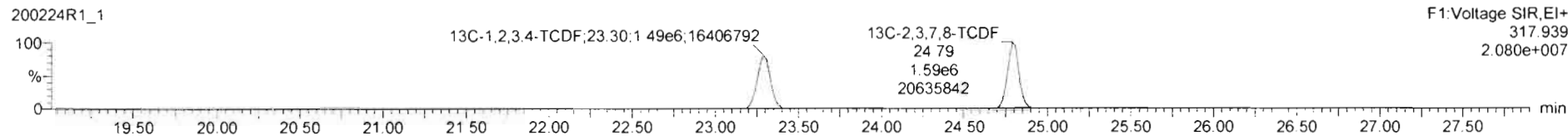
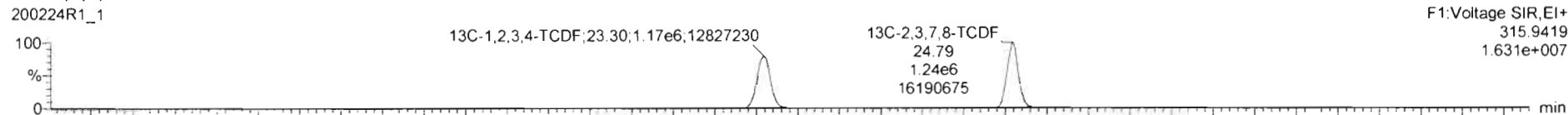
Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

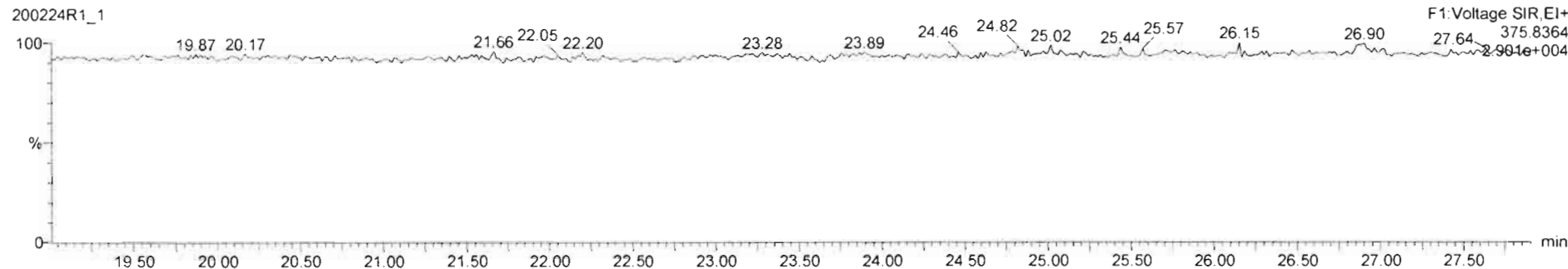
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

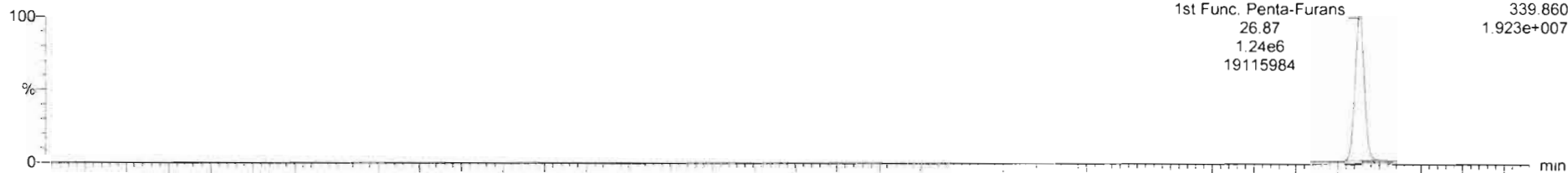
Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

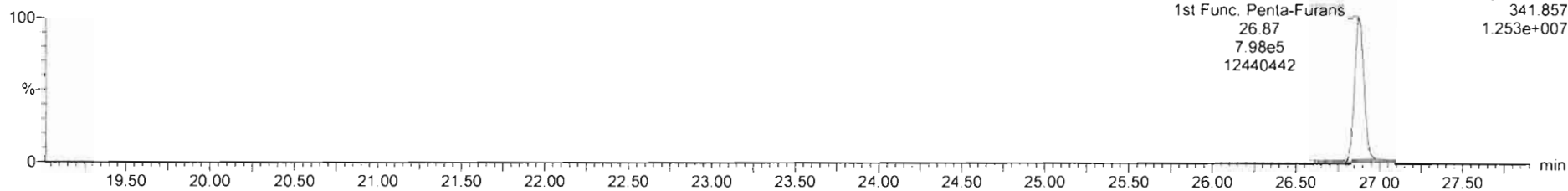
Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200224R1_1

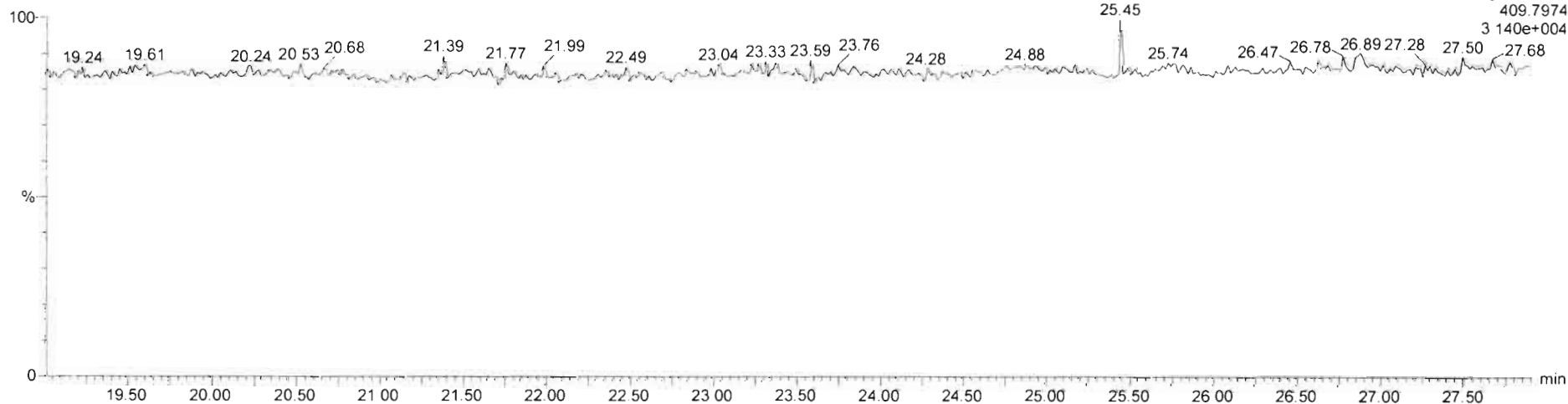


200224R1_1



DPE6

200224R1_1

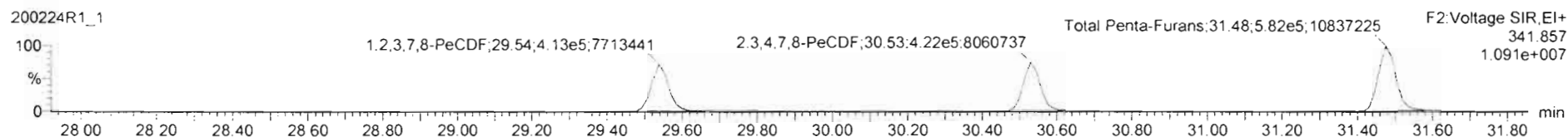
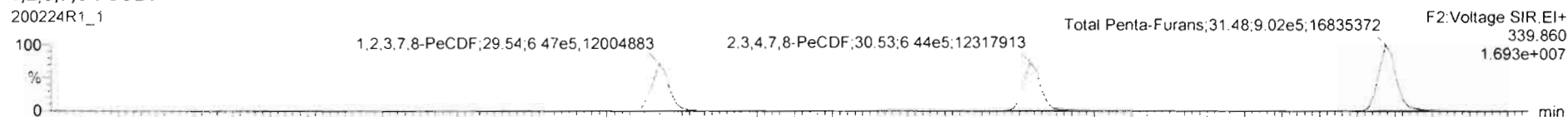


Dataset: Untitled

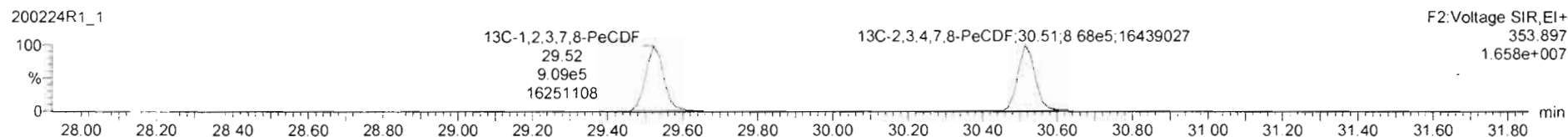
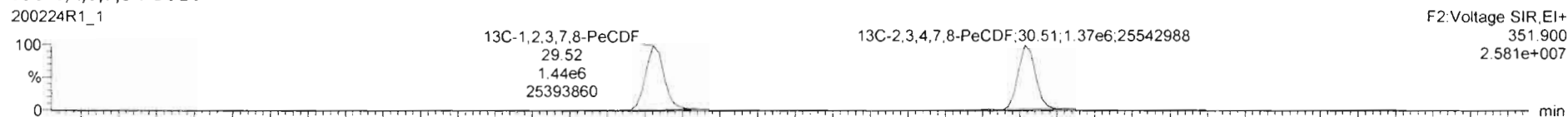
Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

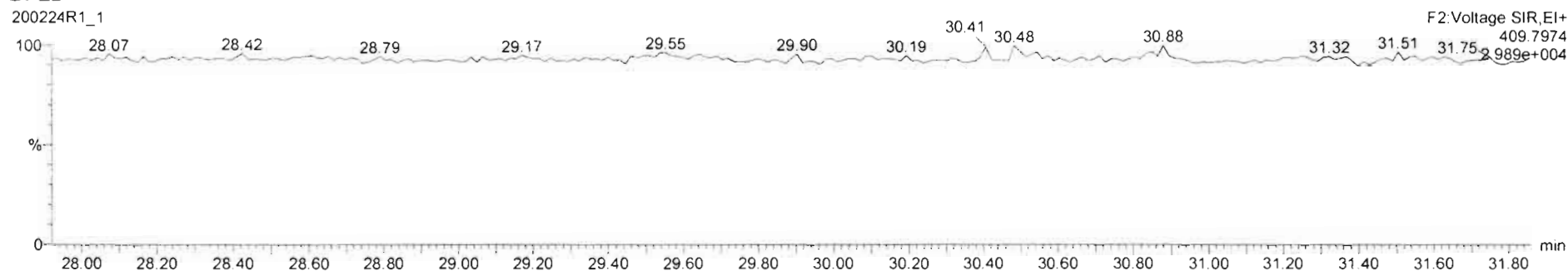
1,2,3,7,8-PeCDF



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



DPE2



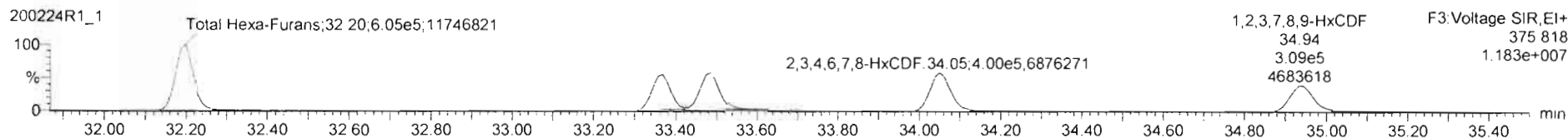
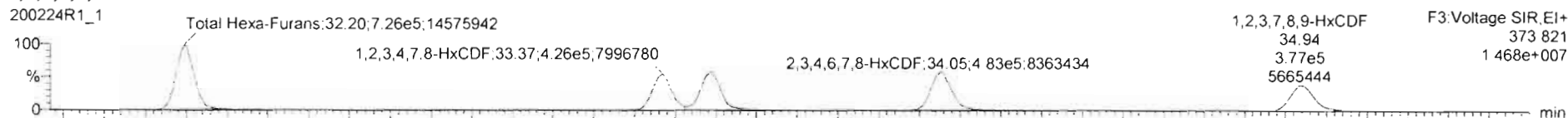
Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

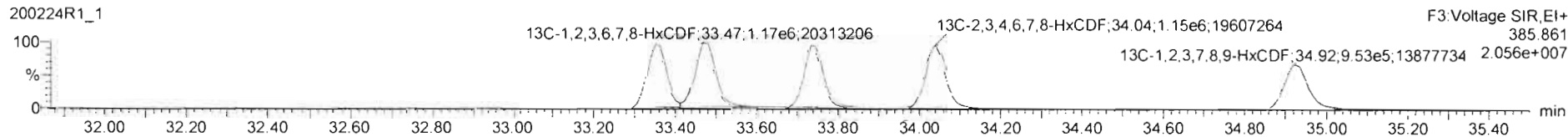
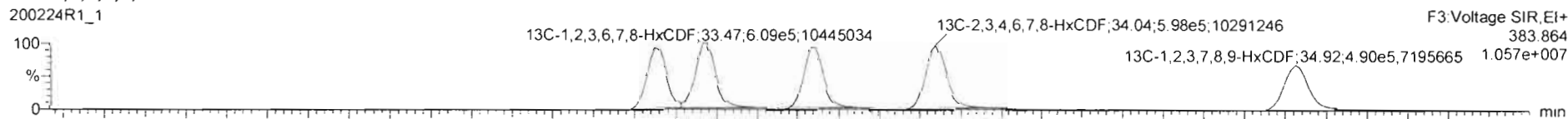
Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

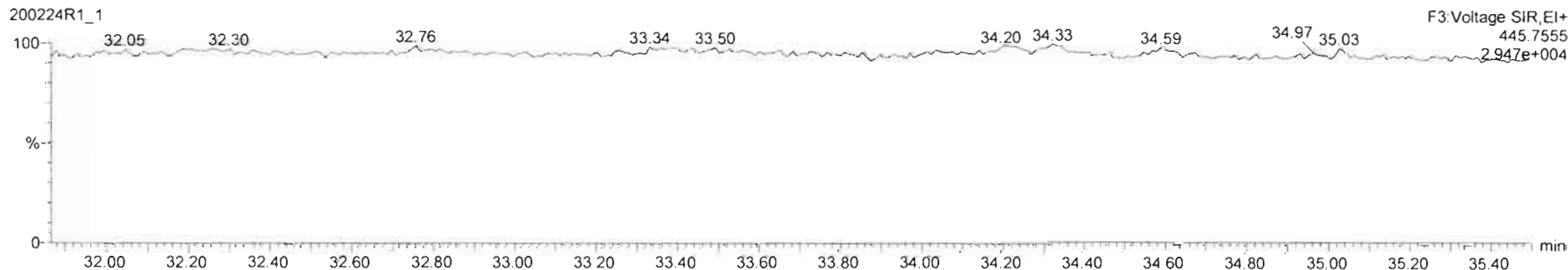
1,2,3,4,7,8-HxCDF



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

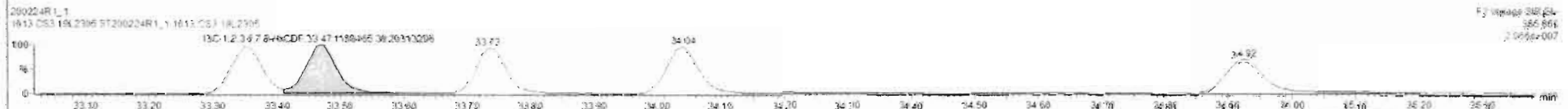


DPE3



200224R1_1 - ST200224R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.56e5	2.22e6	0.77	0.77	NO	0.9581	25.77	25.75	NO	1.001	1.001	9.06	90.6	NO
2	1,2,3,7,8-PeCDD	7.34e5	1.70e6	0.63	0.62	NO	0.9723	30.86	30.85	NO	1.001	1.000	44.3	88.6	NO
3	1,2,3,4,7,8-HxCDD	7.05e5	1.29e6	1.24	1.23	NO	1.0700	34.22	34.22	NO	1.000	1.000	51.2	102	NO
4	1,2,3,6,7,8-HxCDD	7.22e5	1.61e6	1.24	1.25	NO	0.9211	34.21	34.31	NO	1.000	1.001	48.8	97.2	NO
5	1,2,3,7,8,9-HxCDD	5.55e5	1.46e6	1.24	1.24	NO	0.9182	34.62	34.58	NO	1.001	1.000	49.0	98.0	NO
6	1,2,3,4,6,7,8-HpCDD	5.55e5	1.17e6	1.04	0.98	NO	0.9231	36.29	36.05	NO	1.000	1.000	51.6	103	NO
7	OCDD	1.11e6	2.24e6	0.89	0.87	NO	0.9748	41.17	41.15	NO	1.000	1.000	101	101	NO
8	1,2,3,7,8-TCDF	2.39e5	2.83e6	0.77	0.76	NO	0.9020	24.82	24.82	NO	1.001	1.001	10.5	105	NO
9	1,2,3,7,8-PeCDF	1.09e6	2.25e6	1.55	1.53	NO	0.9074	26.94	26.54	NO	1.001	1.001	49.8	99.6	NO
10	1,2,3,4,7,8-PeCDF	1.07e6	2.23e6	1.55	1.53	NO	0.9516	30.94	30.53	NO	1.001	1.001	50.1	100	NO
11	1,2,3,4,7,8-HxCDF	1.77e5	1.62e6	1.24	1.21	NO	0.9523	33.35	33.37	NO	1.000	1.001	55.6	111	NO
12	1,2,3,6,7,8-HxCDF	8.50e5	1.78e6	1.24	1.21	NO	0.8414	33.46	33.49	NO	1.000	1.001	56.8	114	NO
13	1,2,3,4,6,7,8-HxCDF	8.63e5	1.75e6	1.24	1.21	NO	0.8562	34.08	34.05	NO	1.001	1.000	56.3	113	NO
14	1,2,3,7,8,9-HxCDF	6.87e5	1.44e6	1.24	1.22	NO	0.8578	34.92	34.84	NO	1.000	1.000	55.5	111	NO
15	1,2,3,4,6,7,8-HpCDF	5.46e5	1.20e6	1.04	1.01	NO	0.8511	36.70	36.67	NO	1.001	1.000	54.5	109	NO
16	1,2,3,4,7,8,9-HpCDF	5.51e5	9.83e5	1.04	1.03	NO	0.9796	36.72	36.74	NO	1.000	1.001	57.0	114	NO
17	OCDF	1.14e6	2.61e6	0.89	0.87	NO	0.8955	41.35	41.36	NO	1.000	1.000	108	108	NO
18	13C-1,2,3,7,8-TCDD	2.22e6	1.87e6	0.77	0.77	NO	1.1985	25.72	25.74	NO	1.026	1.028	98.7	98.7	NO
19	13C-1,2,3,7,8-PeCDD	1.70e6	1.87e6	0.63	0.63	NO	0.9667	30.47	30.83	NO	1.215	1.230	94.0	94.0	NO
20	13C-1,2,3,4,7,8-HxCDD	1.29e6	1.59e6	1.24	1.20	NO	0.8739	34.20	34.21	NO	1.014	1.014	92.3	92.3	NO
21	13C-1,2,3,4,7,8-HxCDD	1.61e6	1.59e6	1.24	1.20	NO	1.0458	34.21	34.31	NO	1.017	1.017	96.6	96.6	NO



Dataset: Untitled

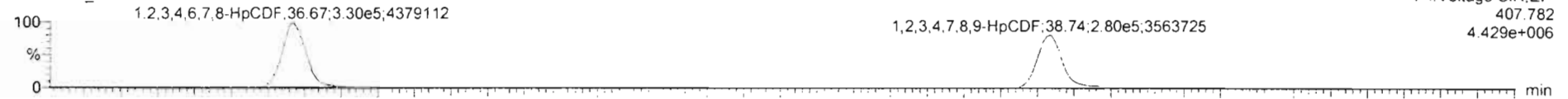
Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

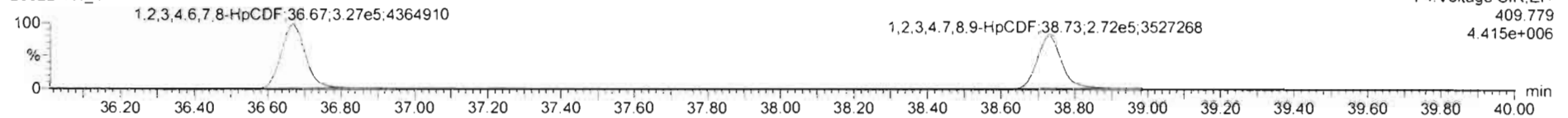
Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200224R1_1



200224R1_1

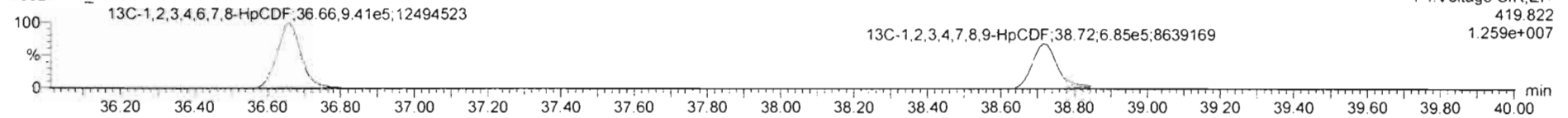


13C-1,2,3,4,6,7,8-HpCDF

200224R1_1

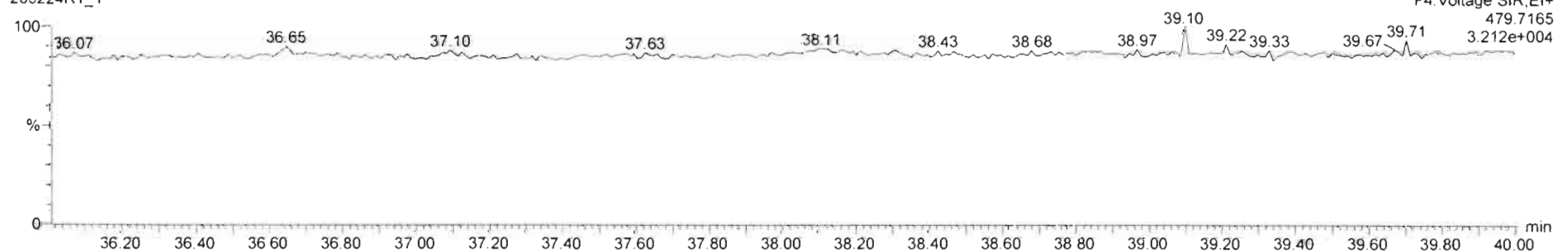


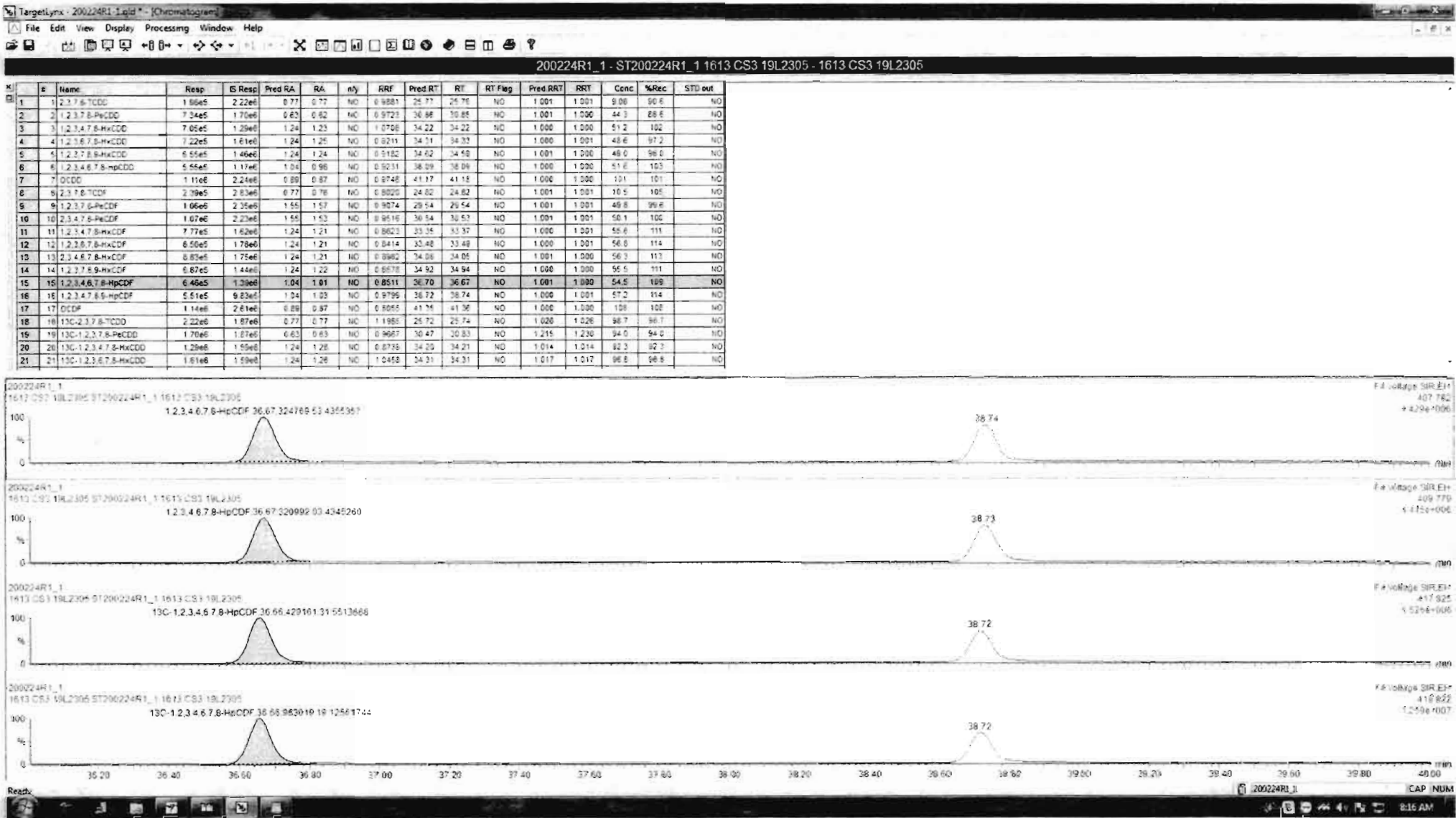
200224R1_1



DPE4

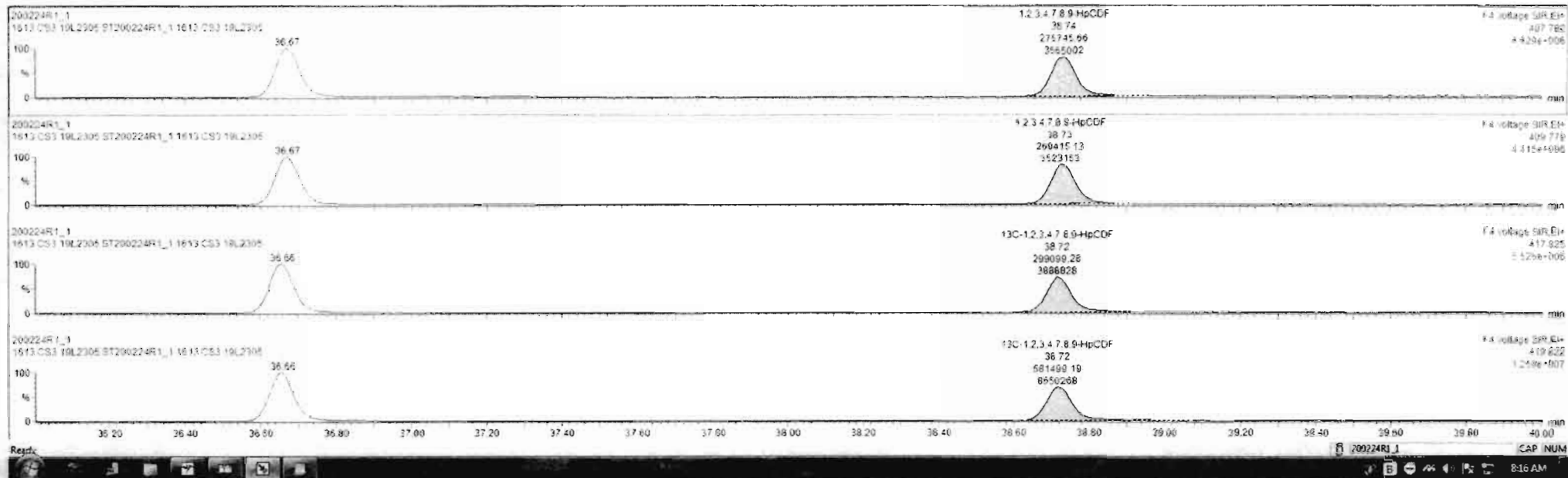
200224R1_1





200224R1_1 - ST200224R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	S Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.56e5	2.22e6	0.77	0.77	NO	0.9081	25.77	25.76	NO	1.001	1.001	9.06	90.6	NO
2	1,2,3,7,8-PeCDD	7.34e5	1.70e6	0.63	0.62	NO	0.9723	30.66	29.85	NO	1.001	1.000	44.3	88.6	NO
3	1,2,3,4,7,8-HxCDD	7.05e5	1.29e6	1.24	1.23	NO	1.0708	34.22	34.22	NO	1.000	1.000	51.2	102	NO
4	1,2,3,6,7,8-HxCDD	7.22e5	1.61e6	1.24	1.25	NO	0.9211	34.31	34.32	NO	1.000	1.001	48.6	97.2	NO
5	1,2,3,7,8,9-HxCDD	6.55e5	1.46e6	1.24	1.24	NO	0.9182	34.62	34.59	NO	1.001	1.000	49.0	98.0	NO
6	1,2,3,4,6,7,8-HpCDD	5.55e5	1.17e6	1.04	0.98	NO	0.9231	36.09	36.09	NO	1.000	1.000	51.8	103	NO
7	OCDD	1.11e6	2.24e6	0.89	0.87	NO	0.9746	41.17	41.18	NO	1.000	1.000	101	101	NO
8	2,3,7,8-TCDF	2.39e5	2.83e6	0.77	0.76	NO	0.8820	24.82	24.82	NO	1.001	1.001	10.5	105	NO
9	1,2,3,7,8-PeCDF	1.06e6	2.25e6	1.55	1.57	NO	0.9074	29.54	29.54	NO	1.001	1.001	45.8	91.6	NO
10	2,3,4,7,8-PeCDF	1.07e6	2.23e6	1.55	1.52	NO	0.9516	30.54	29.53	NO	1.001	1.001	50.1	100	NO
11	1,2,3,4,7,8-HxCDF	7.77e5	1.62e6	1.24	1.21	NO	0.9623	33.35	33.37	NO	1.000	1.001	55.6	111	NO
12	1,2,3,6,7,8-HxCDF	8.50e5	1.78e6	1.24	1.21	NO	0.8414	33.48	33.48	NO	1.000	1.001	56.8	114	NO
13	2,3,4,6,7,8-HxCDF	8.83e5	1.75e6	1.24	1.21	NO	0.8982	34.08	34.05	NO	1.001	1.000	56.3	113	NO
14	1,2,3,7,8,9-HxCDF	6.67e5	1.44e6	1.24	1.22	NO	0.8578	34.92	34.94	NO	1.000	1.000	55.5	111	NO
15	1,2,3,4,6,7,8-HpCDF	5.46e5	1.29e6	1.04	1.01	NO	0.8511	36.70	36.67	NO	1.001	1.000	54.5	109	NO
16	1,2,3,4,7,8,9-HpCDF	5.45e5	9.81e5	1.04	1.02	NO	0.9799	36.72	36.74	NO	1.000	1.001	56.7	113	NO
17	OCDF	1.14e6	2.61e6	0.89	0.87	NO	0.8255	41.25	41.26	NO	1.000	1.000	108	108	NO
18	13C-2,3,7,8-TCDD	2.22e6	1.67e6	0.77	0.77	NO	1.1985	25.72	25.74	NO	1.026	1.026	96.7	96.7	NO
19	13C-1,2,3,7,8-PeCDD	1.70e6	1.67e6	0.63	0.63	NO	0.9687	30.47	30.83	NO	1.215	1.230	94.0	94.8	NO
20	13C-1,2,3,4,7,8-HxCDD	1.26e6	1.59e6	1.24	1.26	NO	0.8735	34.29	34.21	NO	1.014	1.014	92.3	92.2	NO
21	13C-1,2,3,6,7,8-HxCDD	1.61e6	1.59e6	1.24	1.26	NO	1.0456	34.31	34.31	NO	1.017	1.017	96.2	96.2	NO

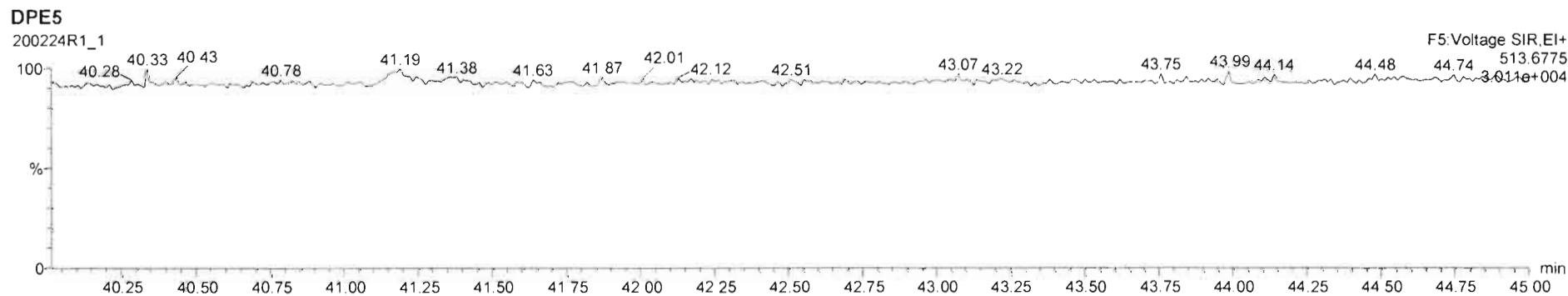
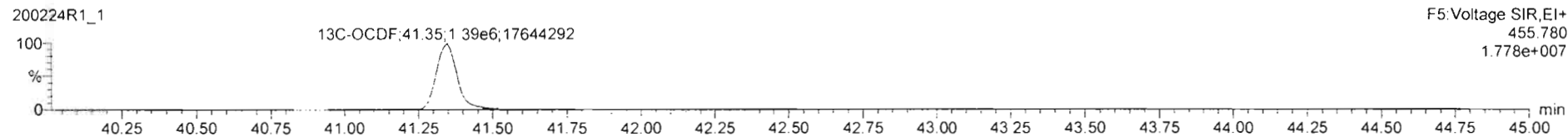
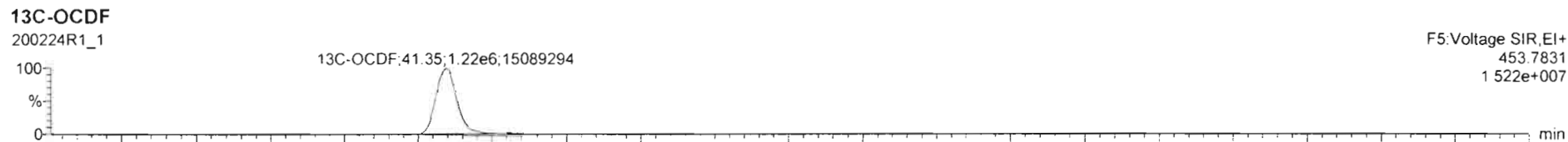
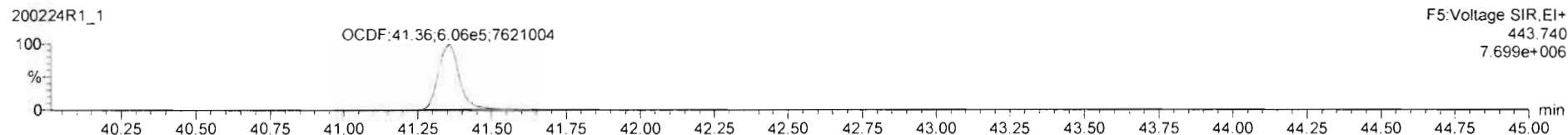
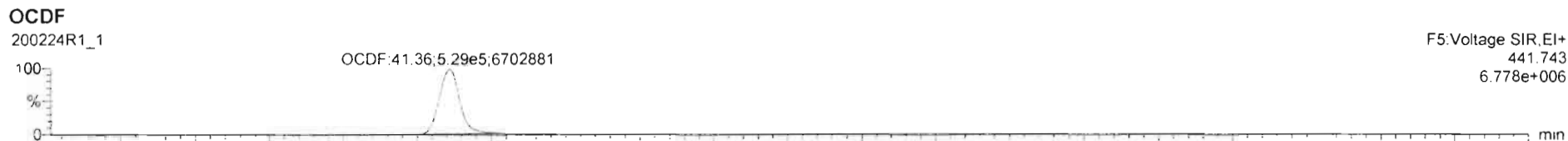


Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time

Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

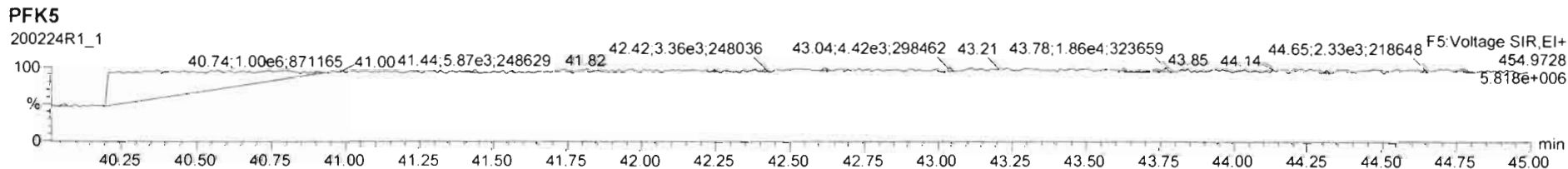
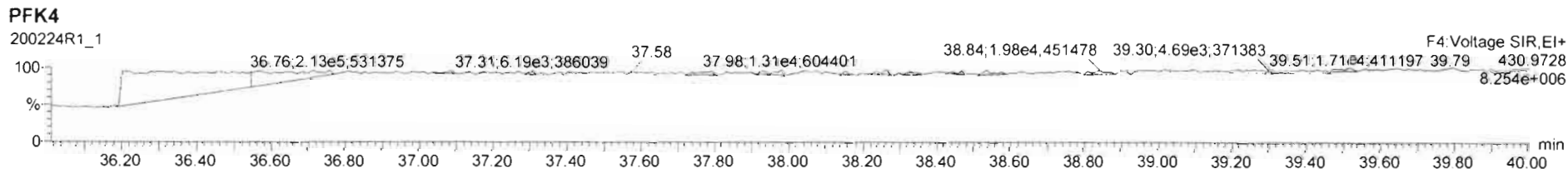
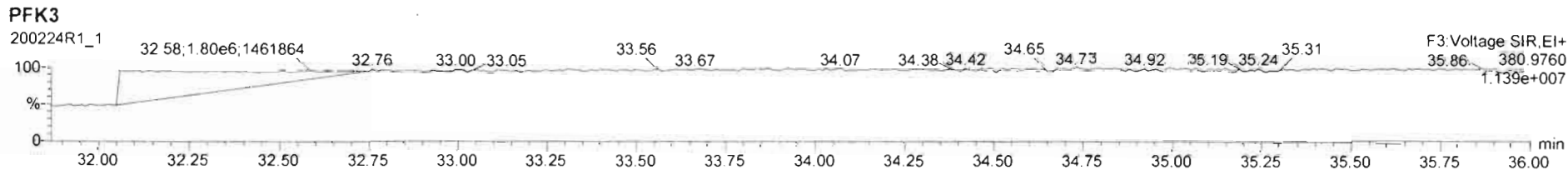
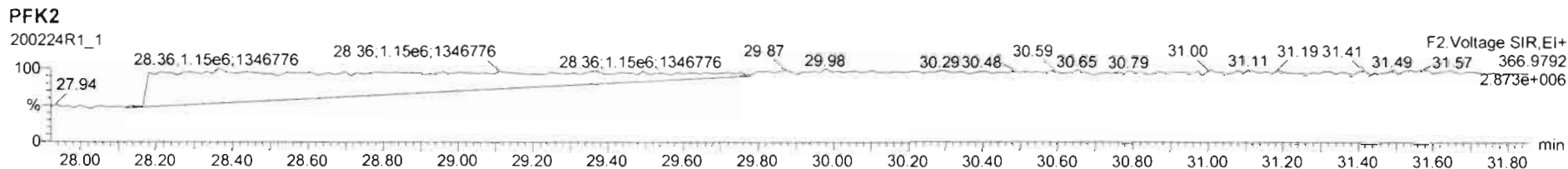
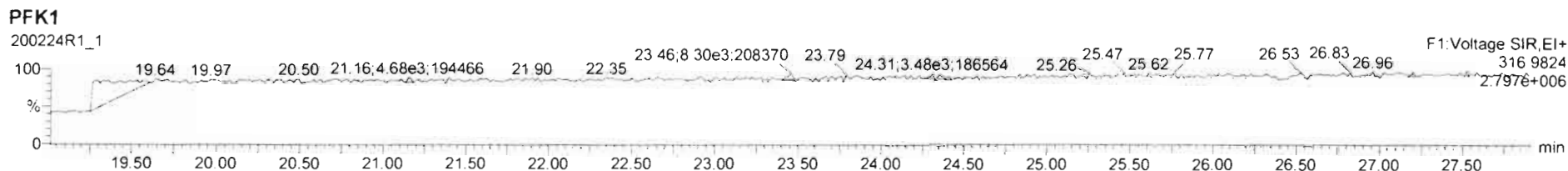
Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Dataset: Untitled

Last Altered: Tuesday, February 25, 2020 08:13:55 Pacific Standard Time
Printed: Tuesday, February 25, 2020 08:14:14 Pacific Standard Time

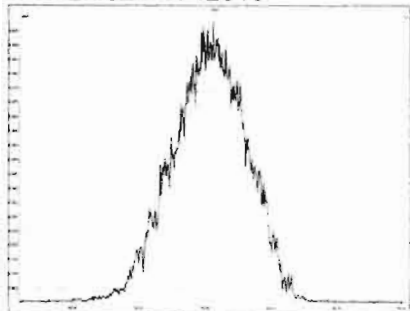
Name: 200224R1_1, Date: 24-Feb-2020, Time: 17:02:58, ID: ST200224R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



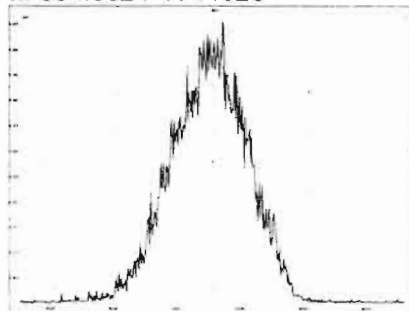
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, February 25, 2020 07:25:04 Pacific Standard Time

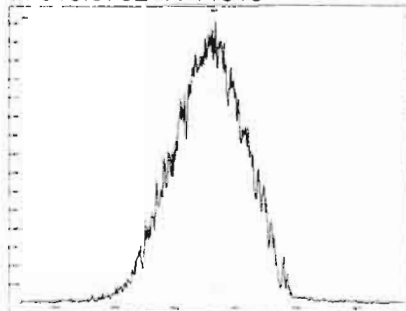
M 292.9824 R 12015



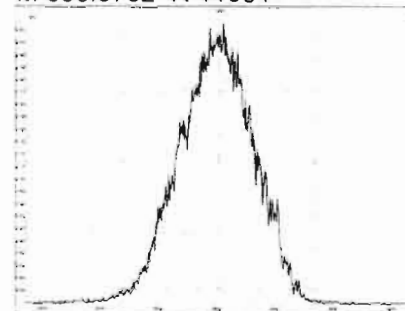
M 304.9824 R 11628



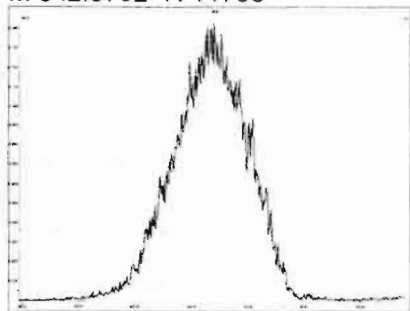
M 318.9792 R 11519



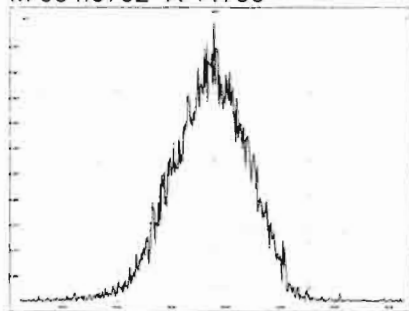
M 330.9792 R 11901



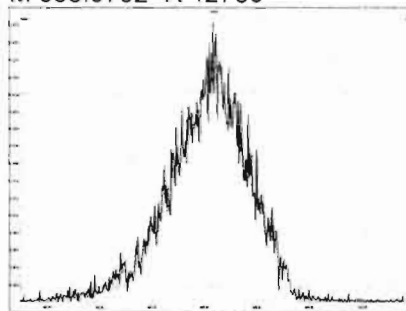
M 342.9792 R 11736



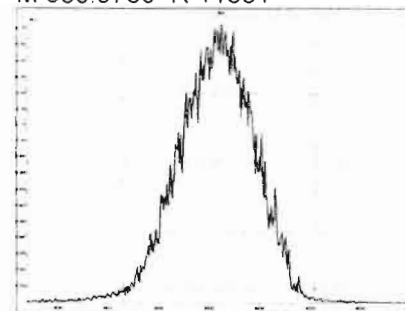
M 354.9792 R 11795



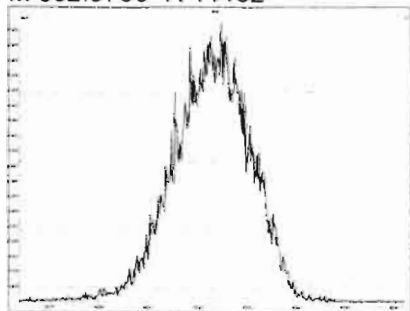
M 366.9792 R 12755



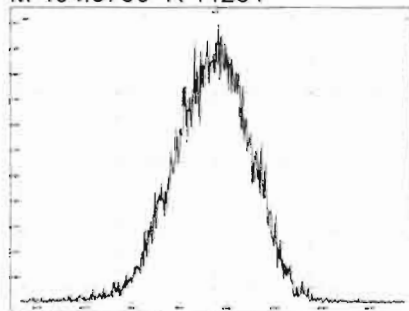
M 380.9760 R 11681



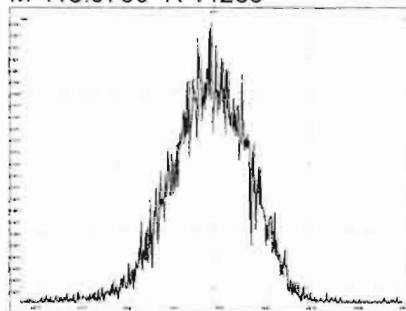
M 392.9760 R 11162



M 404.9760 R 11261



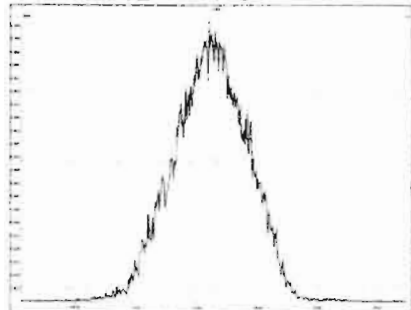
M 416.9760 R 11263



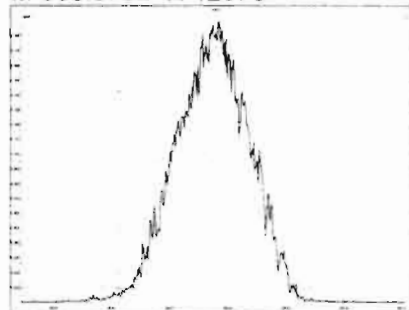
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, February 25, 2020 07:25:38 Pacific Standard Time

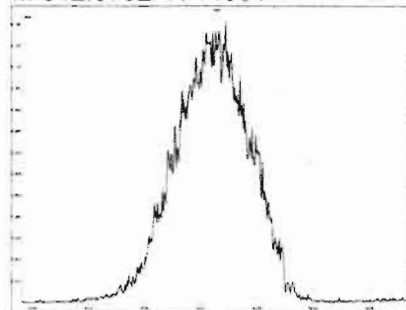
M 318.9792 R 11791



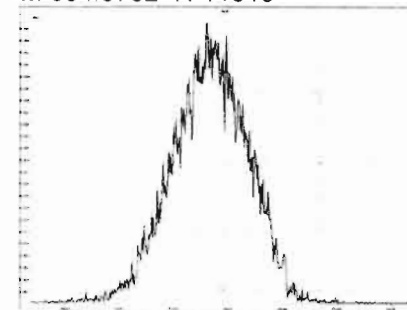
M 330.9792 R 12373



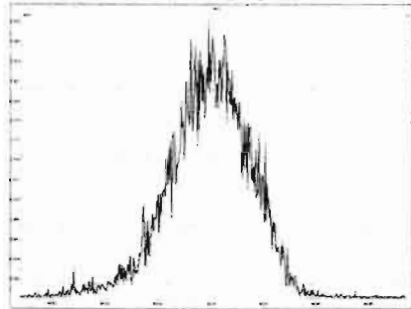
M 342.9792 R 11961



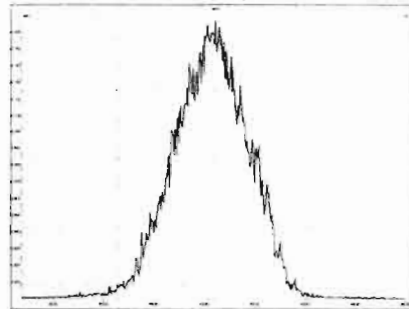
M 354.9792 R 11315



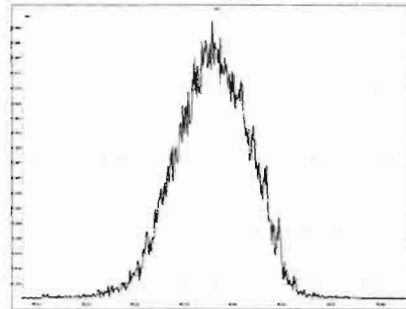
M 366.9792 R 11308



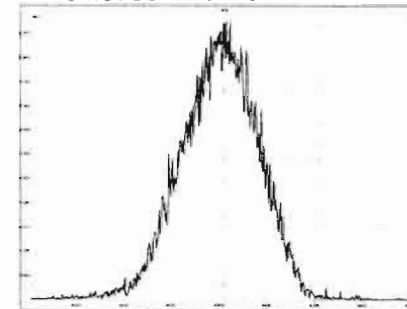
M 380.9760 R 11736



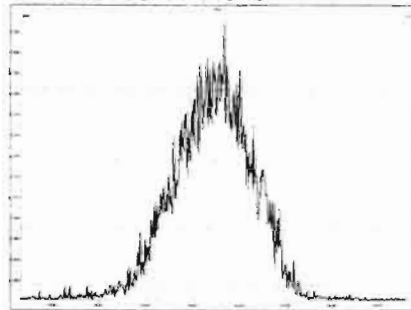
M 392.9760 R 11625



M 404.9760 R 11737



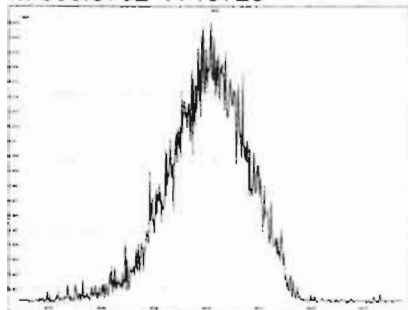
M 416.9760 R 11519



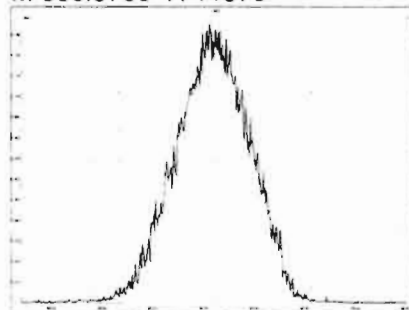
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, February 25, 2020 07:26:26 Pacific Standard Time

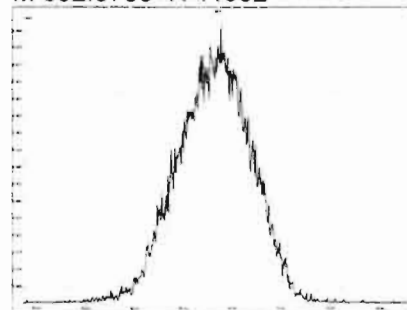
M 366.9792 R 10726



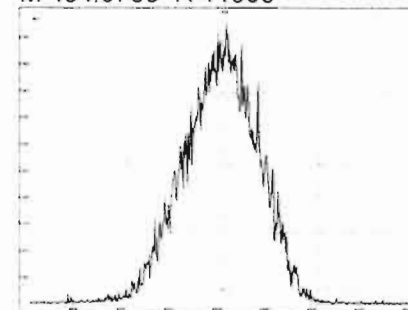
M 380.9760 R 11573



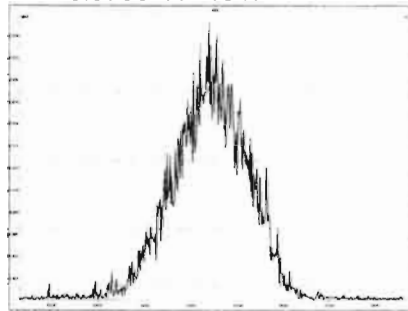
M 392.9760 R 11902



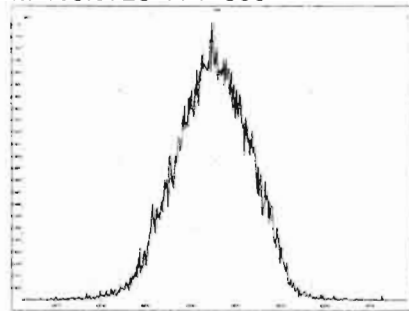
M 404.9760 R 11905



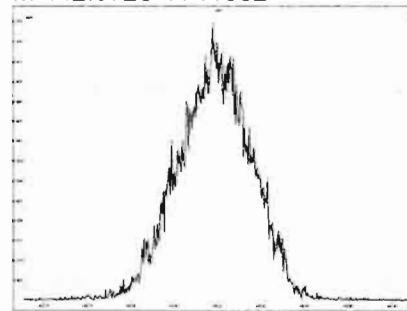
M 416.9760 R 11847



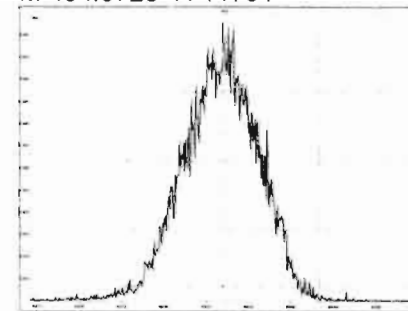
M 430.9728 R 11850



M 442.9728 R 11682



M 454.9728 R 11791



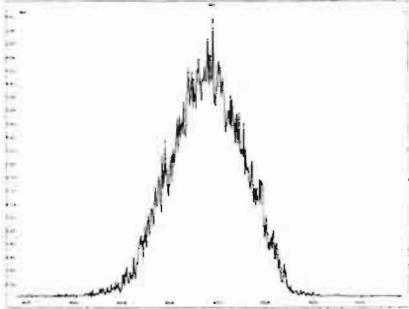
Experiment Calibration Report

MassLynx 4.1 SCN815

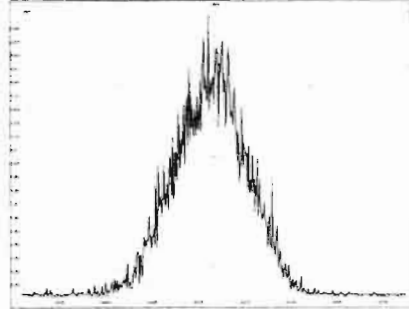
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, February 25, 2020 07:27:00 Pacific Standard Time

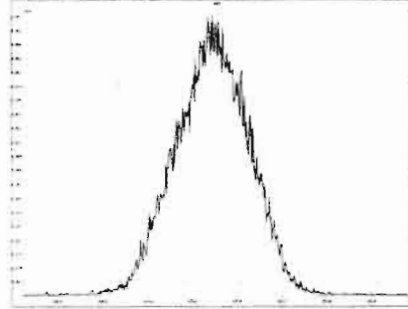
M 404.9760 R 11683



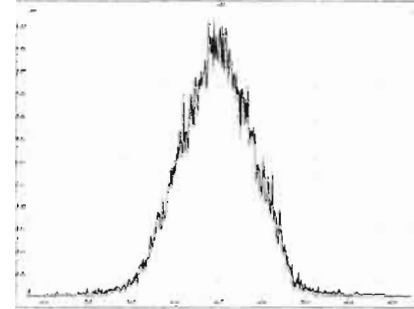
M 416.9760 R 12077



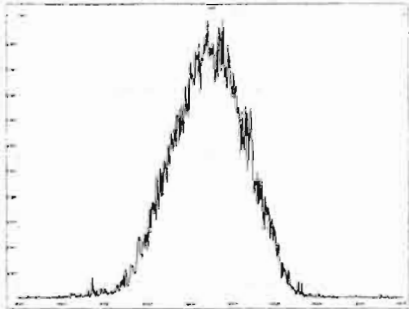
M 430.9728 R 11466



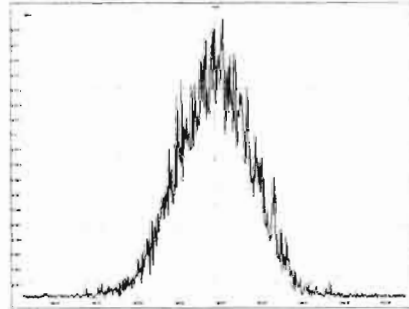
M 442.9728 R 12377



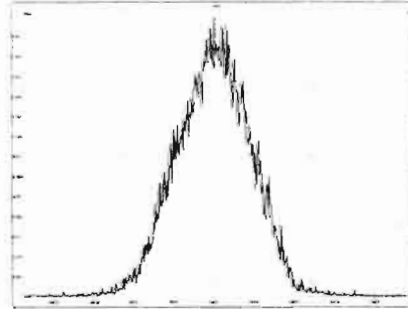
M 454.9728 R 11681



M 466.9728 R 11963



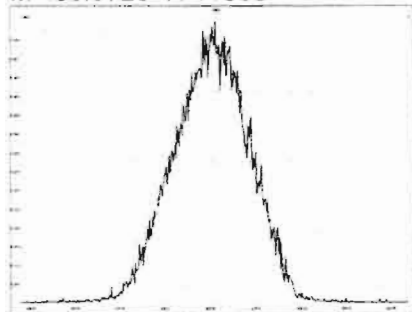
M 480.9696 R 11416



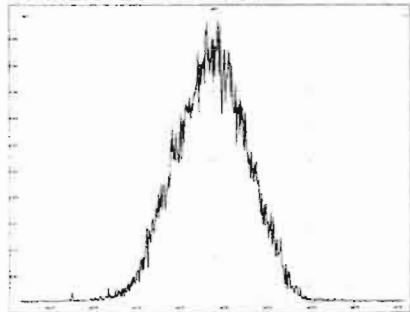
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, February 25, 2020 07:27:33 Pacific Standard Time

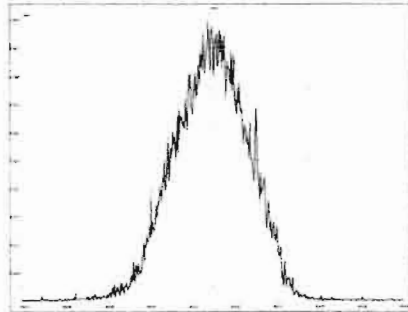
M 430.9728 R 11363



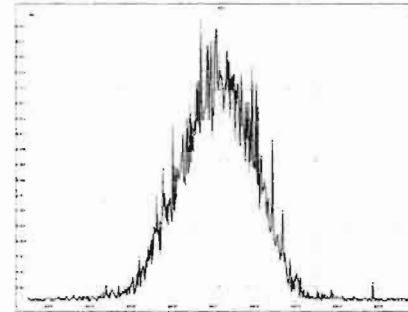
M 442.9728 R 11791



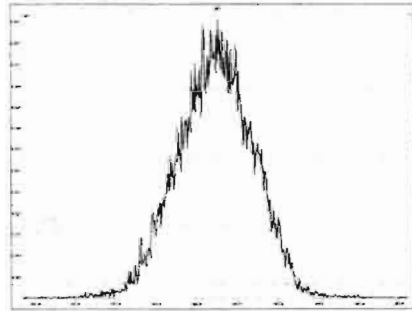
M 454.9728 R 11683



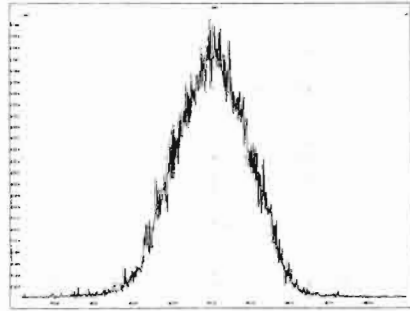
M 466.9728 R 12315



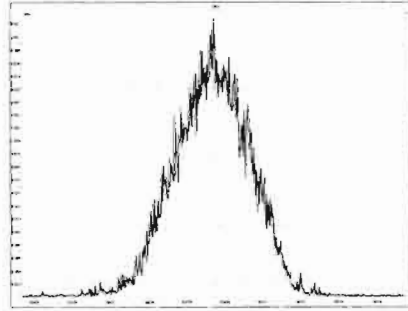
M 480.9696 R 11576



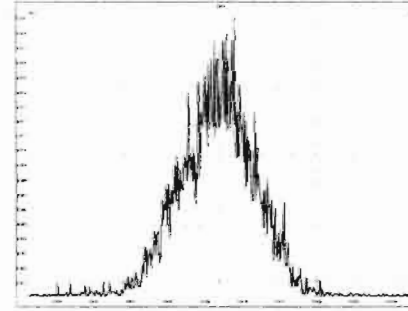
M 492.9696 R 11683



M 504.9696 R 11573



M 516.9697 R 10820



Dataset: U:\VG12.PRO\Results\300307R1\200307R1-1.qld

Last Altered: Monday, March 09, 2020 12:16:12 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:17:04 Pacific Daylight Time

GRB 03/09/2020

C7 03/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.11e5	1.15e6	0.79	NO	0.983	25.81	25.81	NO	1.001	1.001	9.8772	98.8	NO
2	2 1,2,3,7,8-PeCDD	3.45e5	7.62e5	0.63	NO	0.921	30.99	31.00	NO	1.001	1.001	49.170	98.3	NO
3	3 1,2,3,4,7,8-HxCDD	2.87e5	5.21e5	1.31	NO	1.13	34.37	34.38	NO	1.000	1.001	48.563	97.1	NO
4	4 1,2,3,6,7,8-HxCDD	3.24e5	6.79e5	1.26	NO	0.984	34.47	34.48	NO	1.000	1.000	48.512	97.0	NO
5	5 1,2,3,7,8,9-HxCDD	2.78e5	5.79e5	1.28	NO	0.967	34.74	34.75	NO	1.000	1.001	49.623	99.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.15e5	4.48e5	1.00	NO	1.01	38.21	38.20	NO	1.000	1.000	47.741	95.5	NO
7	7 OCDD	4.19e5	8.39e5	0.89	NO	1.05	41.22	41.23	NO	1.000	1.000	95.077	95.1	NO
8	8 2,3,7,8-TCDF	1.46e5	1.65e6	0.78	NO	0.915	24.83	24.84	NO	1.001	1.001	9.7197	97.2	NO
9	9 1,2,3,7,8-PeCDF	5.62e5	1.19e6	1.56	NO	0.959	29.67	29.66	NO	1.001	1.001	49.197	98.4	NO
10	10 2,3,4,7,8-PeCDF	5.68e5	1.16e6	1.59	NO	1.00	30.70	30.68	NO	1.001	1.000	48.953	97.9	NO
11	11 1,2,3,4,7,8-HxCDF	3.82e5	7.71e5	1.20	NO	1.04	33.51	33.53	NO	1.000	1.001	47.728	95.5	NO
12	12 1,2,3,6,7,8-HxCDF	4.45e5	8.97e5	1.22	NO	1.01	33.64	33.65	NO	1.000	1.001	48.951	97.9	NO
13	13 2,3,4,6,7,8-HxCDF	4.14e5	8.07e5	1.22	NO	1.09	34.23	34.21	NO	1.001	1.000	46.955	93.9	NO
14	14 1,2,3,7,8,9-HxCDF	3.11e5	6.39e5	1.22	NO	1.03	35.07	35.09	NO	1.000	1.001	47.349	94.7	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.95e5	6.03e5	1.01	NO	1.05	36.81	36.80	NO	1.001	1.001	46.615	93.2	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.25e5	3.94e5	0.99	NO	1.21	38.82	38.83	NO	1.000	1.000	47.279	94.6	NO
17	17 OCDF	4.77e5	1.06e6	0.89	NO	0.947	41.40	41.41	NO	1.000	1.000	95.336	95.3	NO
18	18 13C-2,3,7,8-TCDD	1.15e6	9.97e5	0.81	NO	1.18	25.80	25.78	NO	1.029	1.028	97.053	97.1	NO
19	19 13C-1,2,3,7,8-PeCDD	7.62e5	9.97e5	0.65	NO	0.864	30.99	30.97	NO	1.236	1.235	88.475	88.5	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.21e5	8.08e5	1.27	NO	0.754	34.36	34.36	NO	1.014	1.014	85.556	85.6	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.79e5	8.08e5	1.27	NO	0.925	34.47	34.47	NO	1.017	1.017	90.814	90.8	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.79e5	8.08e5	1.23	NO	0.829	34.73	34.73	NO	1.025	1.025	86.405	86.4	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.48e5	8.08e5	1.05	NO	0.598	38.18	38.19	NO	1.127	1.127	92.678	92.7	NO
24	24 13C-OCDD	8.39e5	8.08e5	0.90	NO	0.571	41.32	41.22	NO	1.219	1.216	181.83	90.9	NO
25	25 13C-2,3,7,8-TCDF	1.65e6	1.58e6	0.79	NO	1.09	24.82	24.81	NO	0.990	0.989	95.771	95.8	NO
26	26 13C-1,2,3,7,8-PeCDF	1.19e6	1.58e6	1.59	NO	0.876	29.66	29.64	NO	1.183	1.182	86.040	86.0	NO
27	27 13C-2,3,4,7,8-PeCDF	1.16e6	1.58e6	1.58	NO	0.844	30.67	30.67	NO	1.223	1.223	86.903	86.9	NO
28	28 13C-1,2,3,4,7,8-HxCDF	7.71e5	8.08e5	0.52	NO	1.00	33.51	33.51	NO	0.989	0.989	95.464	95.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	8.97e5	8.08e5	0.53	NO	1.12	33.62	33.63	NO	0.992	0.992	99.405	99.4	NO
30	30 13C-2,3,4,6,7,8-HxCDF	8.07e5	8.08e5	0.54	NO	1.04	34.20	34.20	NO	1.009	1.009	96.515	96.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	6.39e5	8.08e5	0.52	NO	0.873	35.07	35.07	NO	1.035	1.035	90.610	90.6	NO

Dataset: U:\VG12.PRO\Results\300307R1\200307R1-1.qld

Last Altered: Monday, March 09, 2020 12:16:12 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:17:04 Pacific Daylight Time

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.03e5	8.08e5	0.44	NO	0.771	36.78	36.78	NO	1.085	1.085	96.812	96.8	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.94e5	8.08e5	0.43	NO	0.519	38.86	38.82	NO	1.147	1.145	93.914	93.9	NO
34	34 13C-OCDF	1.06e6	8.08e5	0.87	NO	0.696	41.50	41.40	NO	1.225	1.222	187.87	93.9	NO
35	35 37Cl-2,3,7,8-TCDD	1.12e5	9.97e5			1.17	25.81	25.81	NO	1.029	1.029	9.5496	95.5	NO
36	36 13C-1,2,3,4-TCDD	9.97e5	9.97e5	0.82	NO	1.00	25.05	25.08	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.58e6	1.58e6	0.79	NO	1.00	23.19	23.21	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	8.08e5	8.08e5	0.52	NO	1.00	33.88	33.89	NO	1.000	1.000	100.00	100	YES <i>OK</i>
39	39 Total Tetra-Dioxins		1.15e6			0.983	24.62		NO	0.000		85.293		NO
40	40 Total Penta-Dioxins		7.62e5			0.921	29.96		NO	0.000		221.74		NO
41	41 Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		246.85		NO
42	42 Total Hepta-Dioxins		4.48e5			1.01	37.64		NO	0.000		128.04		NO
43	43 Total Tetra-Furans		1.65e6			0.915	23.61		NO	0.000		48.390		NO
44	44 1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		92.889		NO
45	45 Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		168.13		NO
46	46 Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		277.25		NO
47	47 Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		93.894		NO

Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:20:59 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:25:45 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.51
2	2 1,2,8,9-TCDD (Last)	26.83
3	3 1,2,4,7,9-PeCDD (First)	28.70
4	4 1,2,3,8,9-PeCDD (Last)	31.38
5	5 1,2,4,6,7,9-HxCDD (First)	32.91
6	6 1,2,3,7,8,9-HxCDD (Last)	34.75
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.20
9	9 1,3,6,8-TCDF (First)	19.49
10	10 1,2,8,9-TCDF (Last)	26.98
11	11 1,3,4,6,8-PeCDF (First)	26.93
12	12 1,2,3,8,9-PeCDF (Last)	31.63
13	13 1,2,3,4,6,8-HxCDF (First)	32.35
14	14 1,2,3,7,8,9-HxCDF (Last)	35.09
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.80
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.83

Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:32:01 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:32:22 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

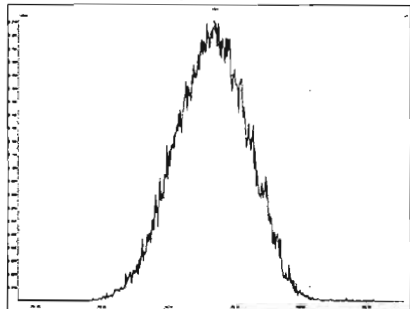
Compound name: 1,3,6,8-TCDD (First)

	Name	ID	Acq.Date	Acq.Time
1	200307R1_1	ST200307R1_1 1613 CS3 19L2305	07-Mar-20	09:44:00
2	200307R1_2	B0B0031-BS1 OPR 10	07-Mar-20	10:32:33
3	200307R1_3	SOLVENT BLANK	07-Mar-20	11:18:44
4	200307R1_4	B0B0031-BLK1 Method Blank 10	07-Mar-20	12:06:17
5	200307R1_5	1903736-10RE2 PDI-079SC-B-02-04-191014 ...	07-Mar-20	12:53:41
6	200307R1_6	2000144-01 PDI-052SC-A-06-07-191015 14.52	07-Mar-20	13:41:06
7	200307R1_7	B0B0031-DUP1 Duplicate 14.48	07-Mar-20	14:28:31
8	200307R1_8	2000144-02 PDI-055SC-A-02-03-191015 17.22	07-Mar-20	15:15:55
9	200307R1_9	2000144-03 PDI-055SC-A-03-04-191015 16.3	07-Mar-20	16:03:27
10	200307R1_10	2000144-04 PDI-059SC-A-12-13-191016 13.26	07-Mar-20	16:51:01
11	200307R1_11	2000144-05 PDI-064SC-A-02-03-190929 19.1	07-Mar-20	17:38:33
12	200307R1_12	2000144-06 PDI-064SC-A-03-04-190929 16.68	07-Mar-20	18:25:57
13	200307R1_13	2000144-07 PDI-079SC-A-08-09-191014 15.43	07-Mar-20	19:13:23
14	200307R1_14	2000144-08 PDI-079SC-A-09-10-191014 12.23	07-Mar-20	20:00:47

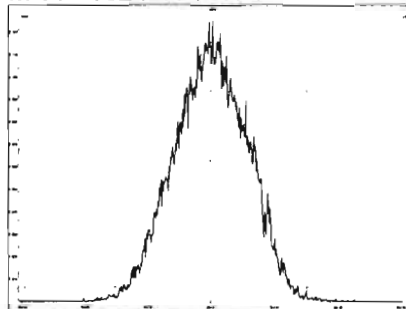
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, March 07, 2020 09:38:03 Pacific Standard Time

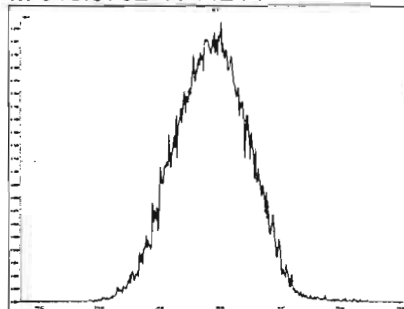
M 292.9824 R 11411



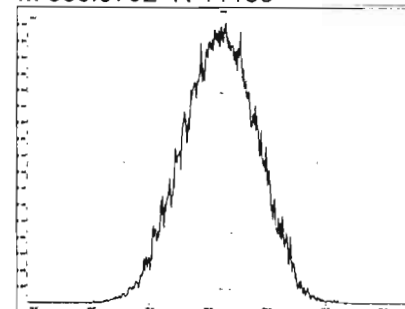
M 304.9824 R 11574



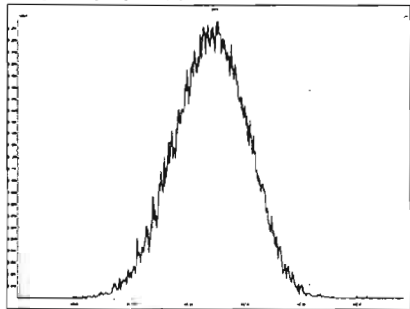
M 318.9792 R 11214



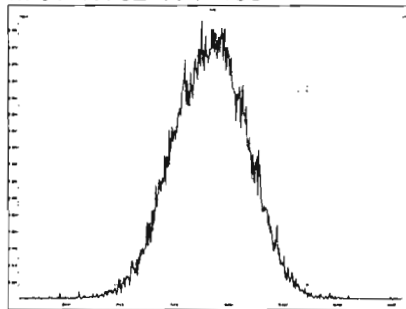
M 330.9792 R 11156



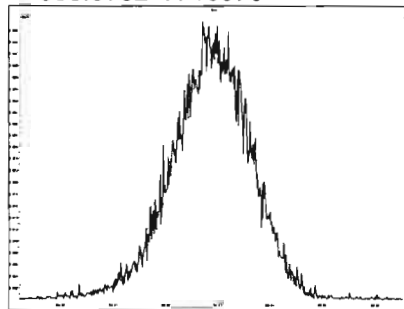
M 342.9792 R 11160



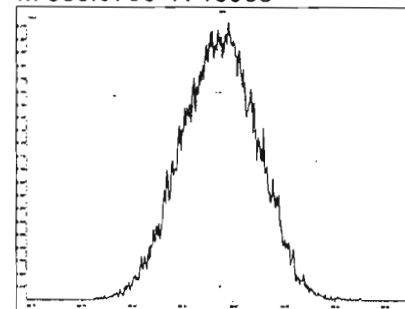
M 354.9792 R 11158



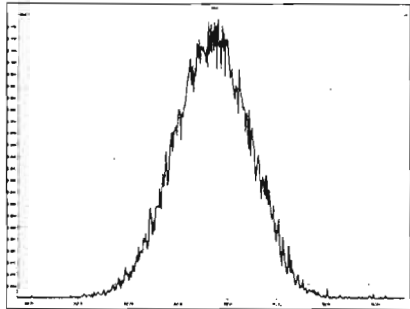
M 366.9792 R 10373



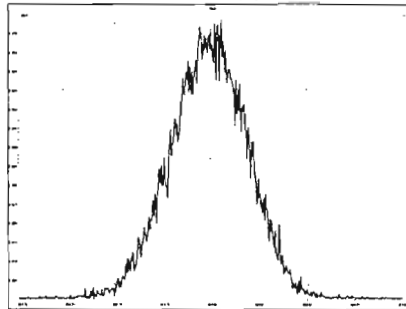
M 380.9760 R 10968



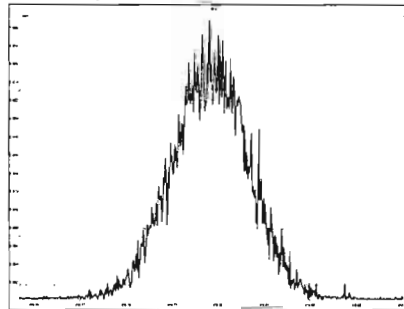
M 392.9760 R 10966



M 404.9760 R 11260



M 416.9760 R 10871



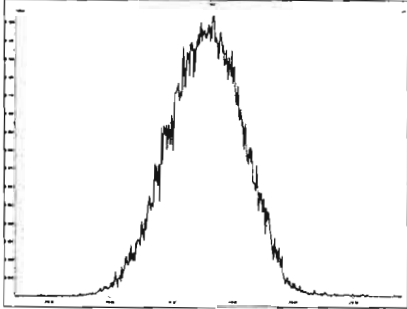
Experiment Calibration Report

MassLynx 4.1 SCN815

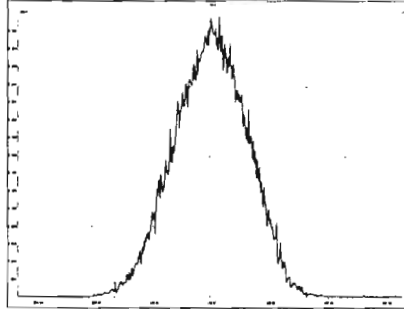
File: Experiment: OCDD_DB5.exp Reference: pkf.ref Function: 2 @ 200 (ppm)

Printed: Saturday, March 07, 2020 09:38:46 Pacific Standard Time

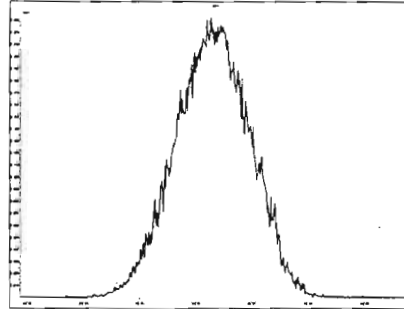
M 318.9792 R 11626



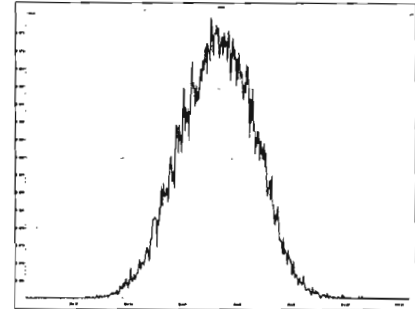
M 330.9792 R 11517



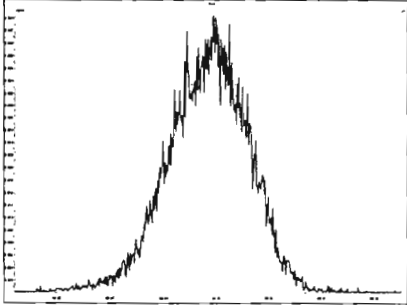
M 342.9792 R 11312



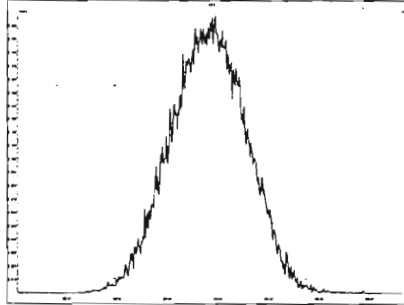
M 354.9792 R 10915



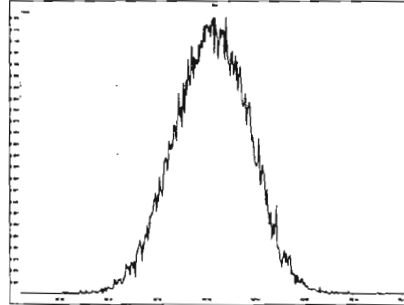
M 366.9792 R 10776



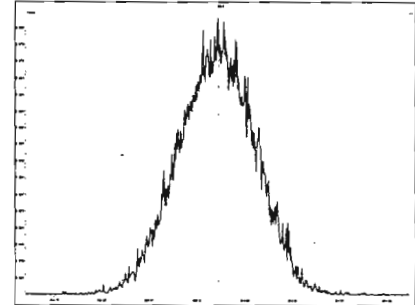
M 380.9760 R 10821



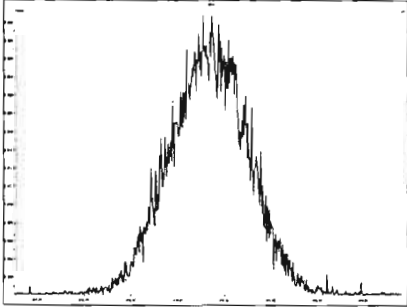
M 392.9760 R 11208



M 404.9760 R 11312



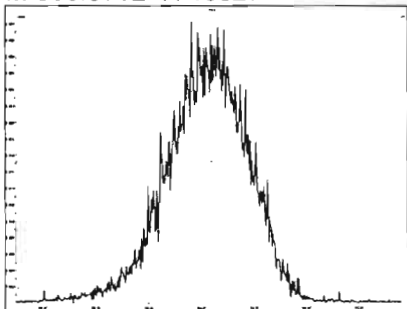
M 416.9760 R 10825



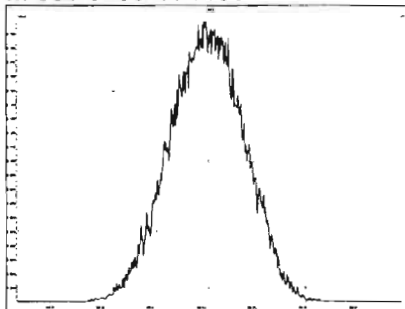
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, March 07, 2020 09:39:25 Pacific Standard Time

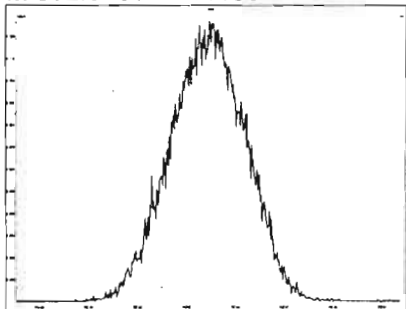
M 366.9792 R 10327



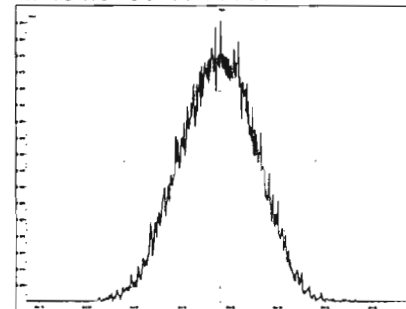
M 380.9760 R 11061



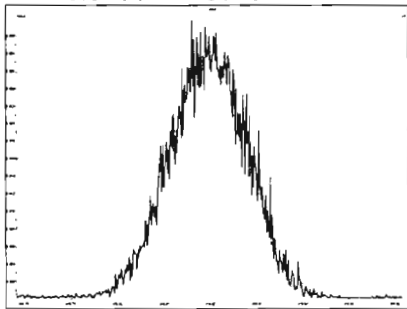
M 392.9760 R 11158



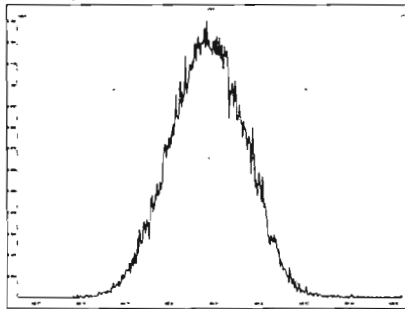
M 404.9760 R 11111



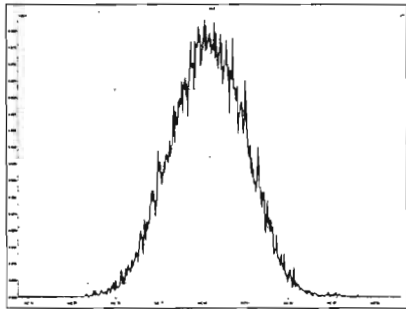
M 416.9760 R 10915



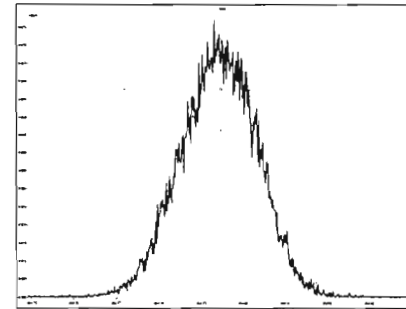
M 430.9728 R 11063



M 442.9728 R 11110



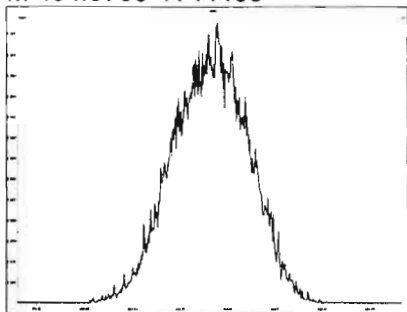
M 454.9728 R 11113



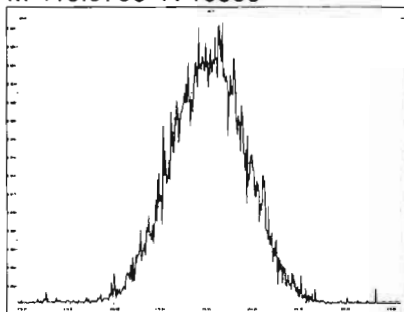
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, March 07, 2020 09:40:17 Pacific Standard Time

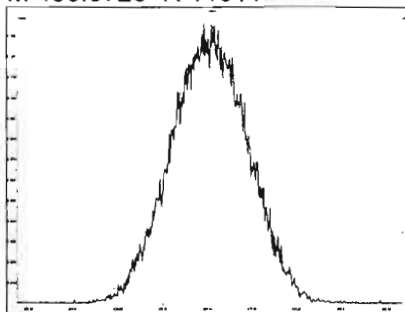
M 404.9760 R 11108



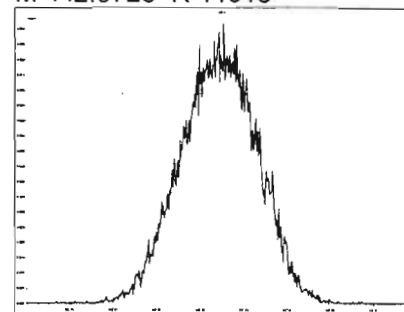
M 416.9760 R 10869



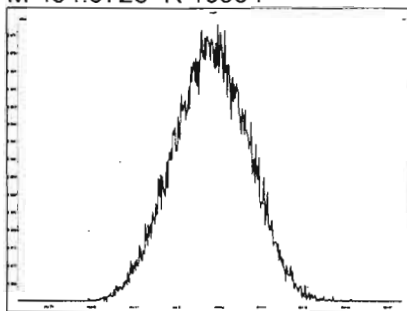
M 430.9728 R 11011



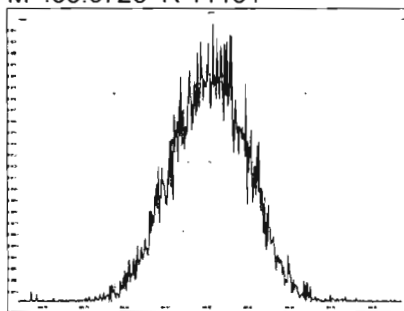
M 442.9728 R 11013



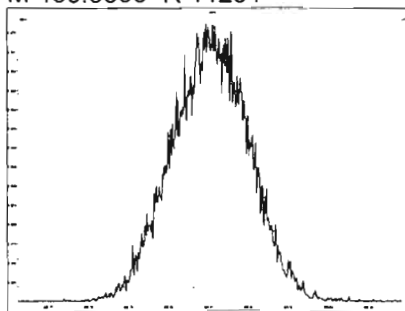
M 454.9728 R 10964



M 466.9728 R 11161



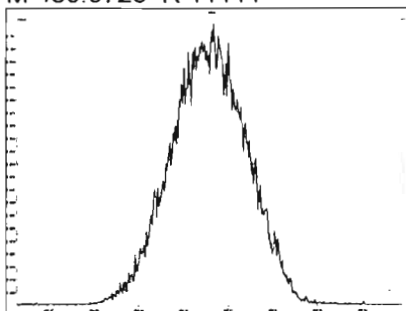
M 480.9696 R 11261



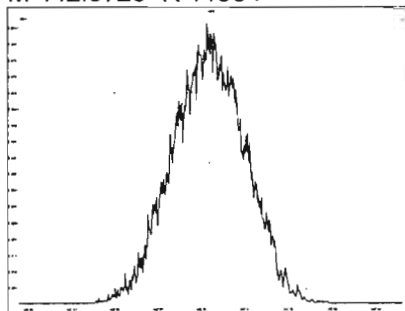
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, March 07, 2020 09:40:58 Pacific Standard Time

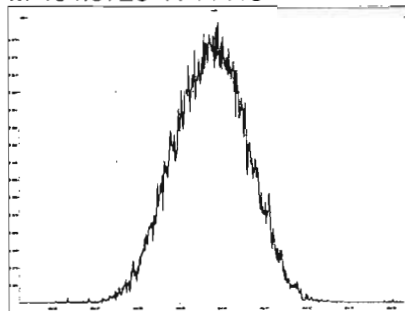
M 430.9728 R 11111



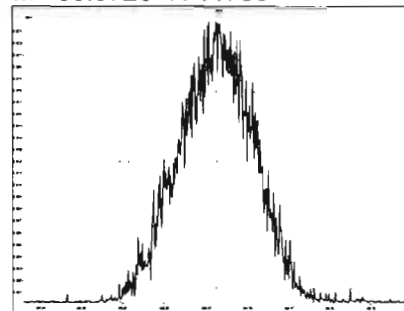
M 442.9728 R 11964



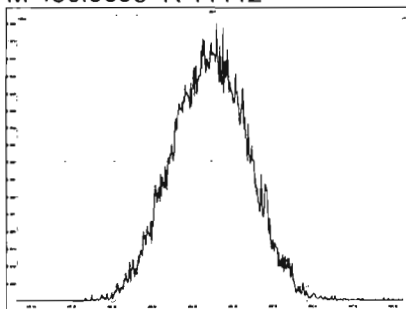
M 454.9728 R 11416



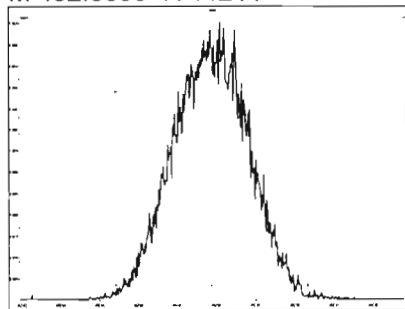
M 466.9728 R 11736



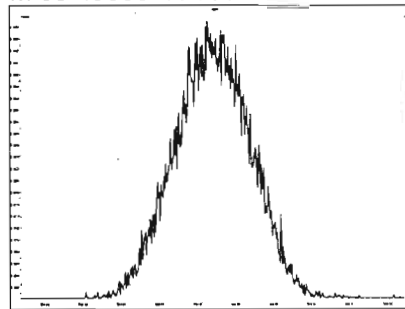
M 480.9696 R 11112



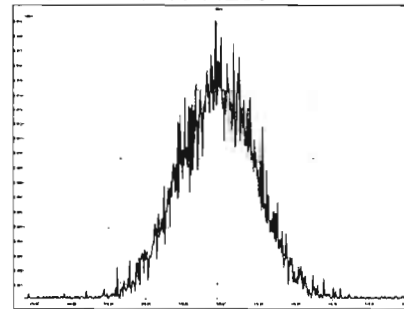
M 492.9696 R 11211



M 504.9696 R 11110



M 516.9697 R 11208



Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:20:59 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:25:45 Pacific Daylight Time

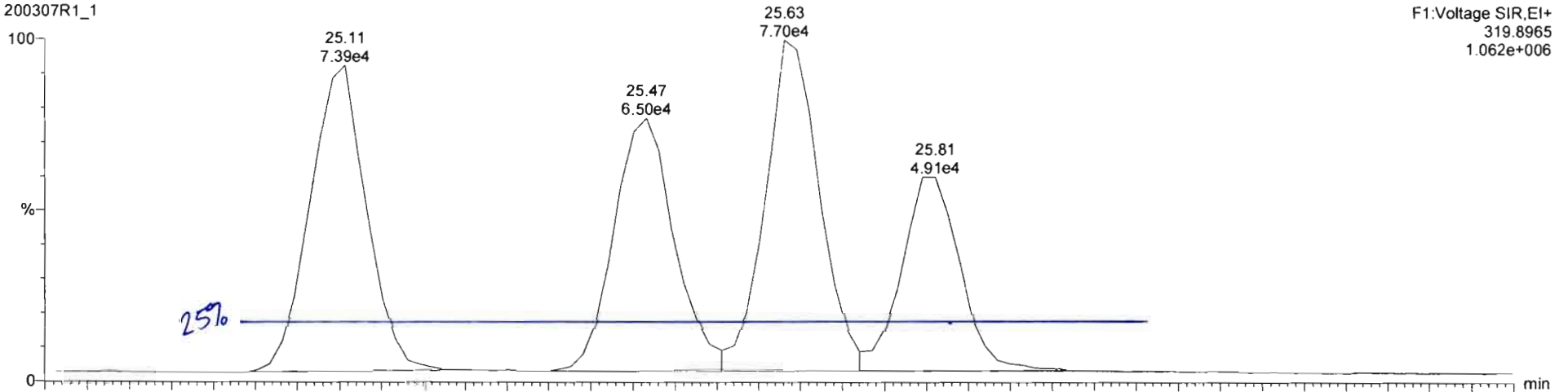
GPB 03/09/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

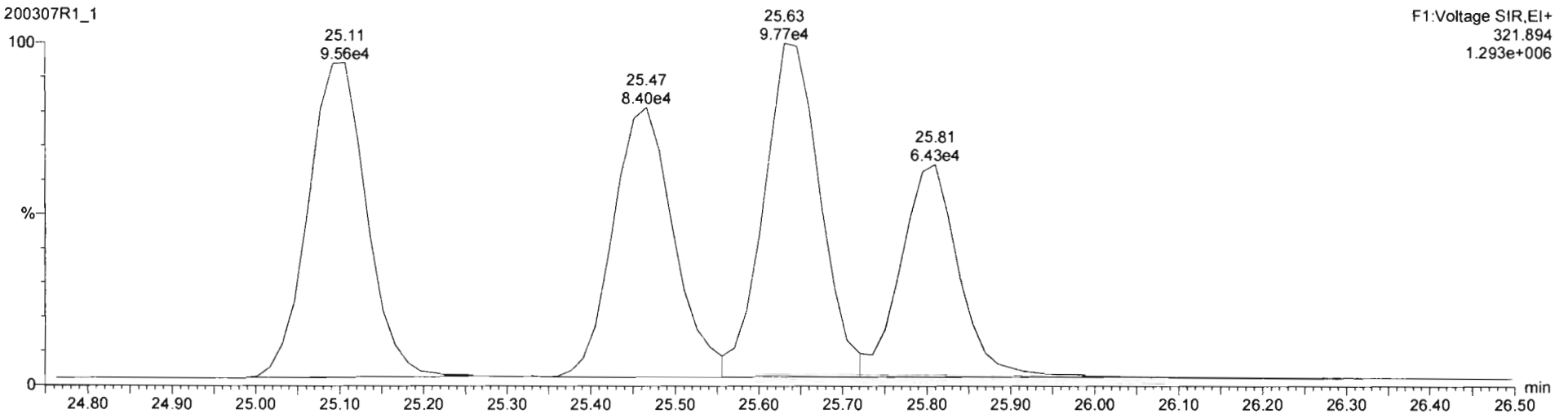
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200307R1_1



200307R1_1



Dataset: Untitled

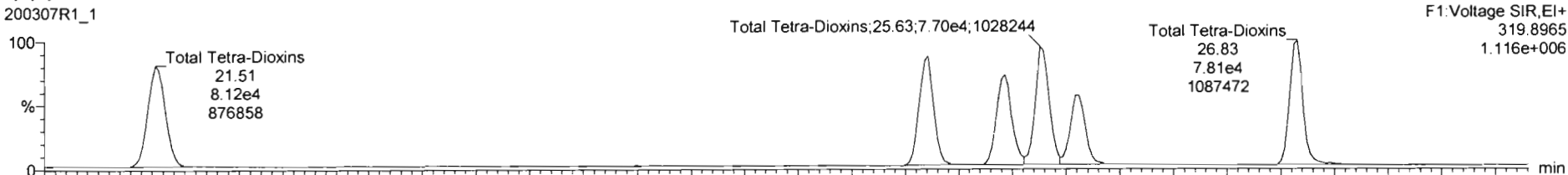
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

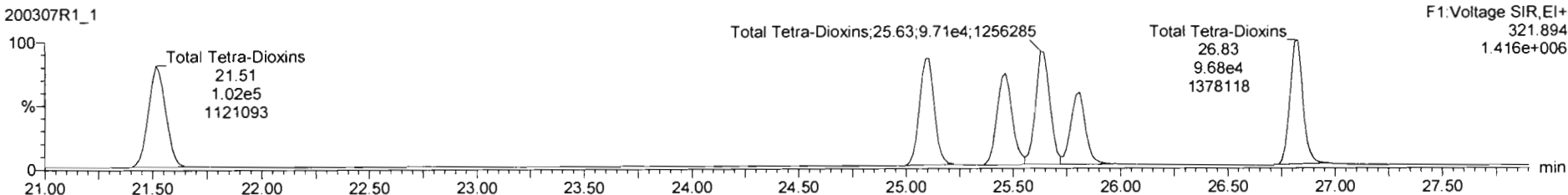
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200307R1_1

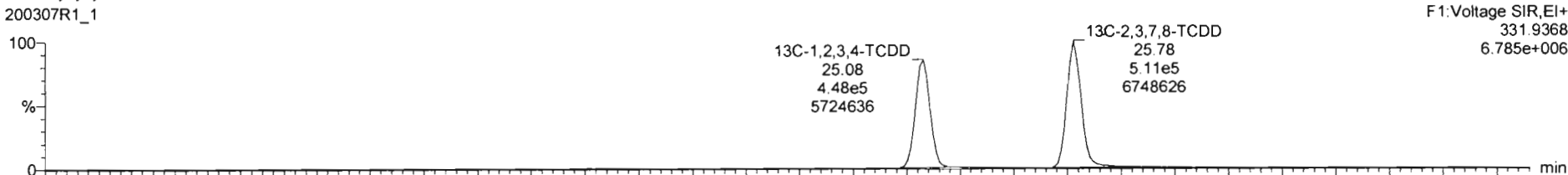


200307R1_1

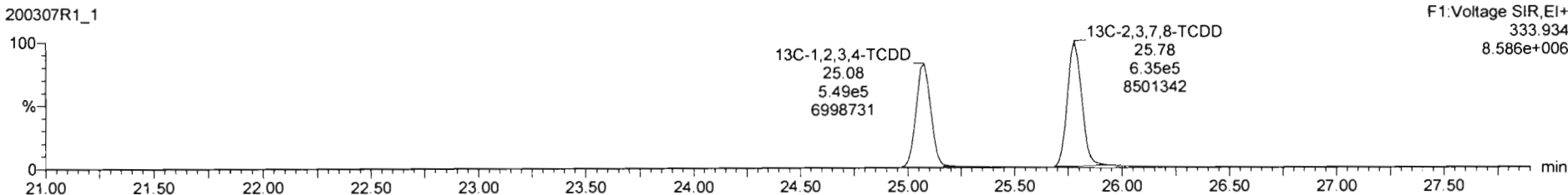


13C-2,3,7,8-TCDD

200307R1_1



200307R1_1



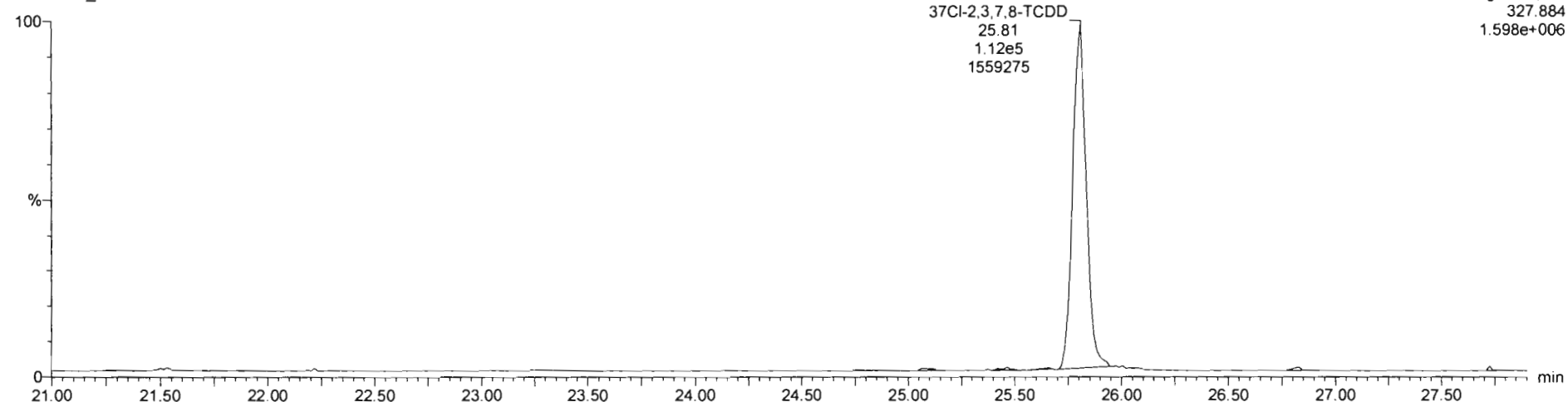
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

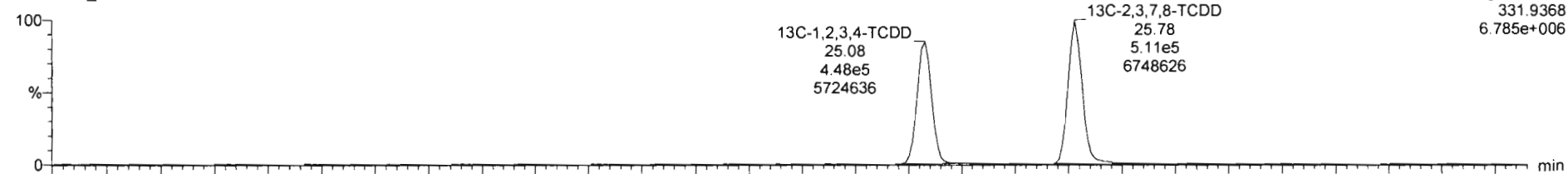
37Cl-2,3,7,8-TCDD

200307R1_1

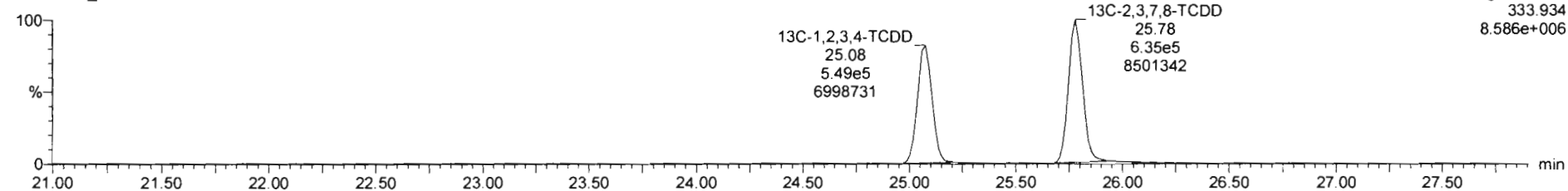


13C-1,2,3,4-TCDD

200307R1_1



200307R1_1



Dataset: Untitled

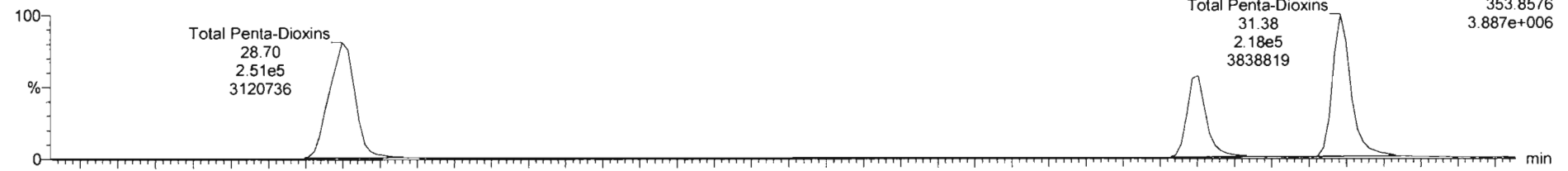
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

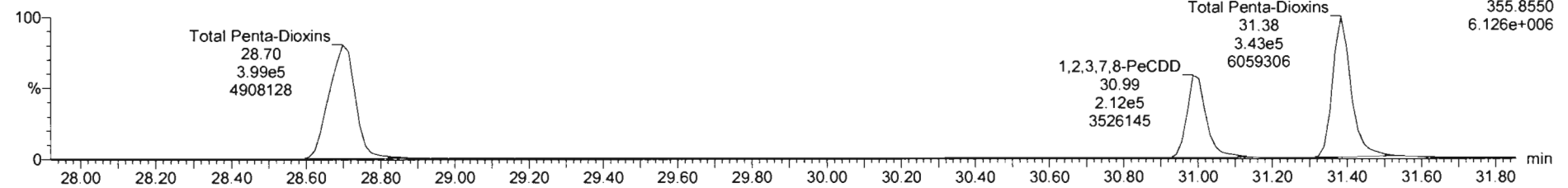
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200307R1_1

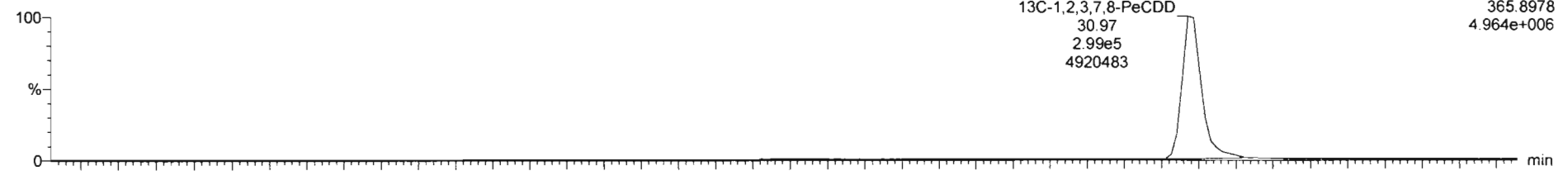


200307R1_1

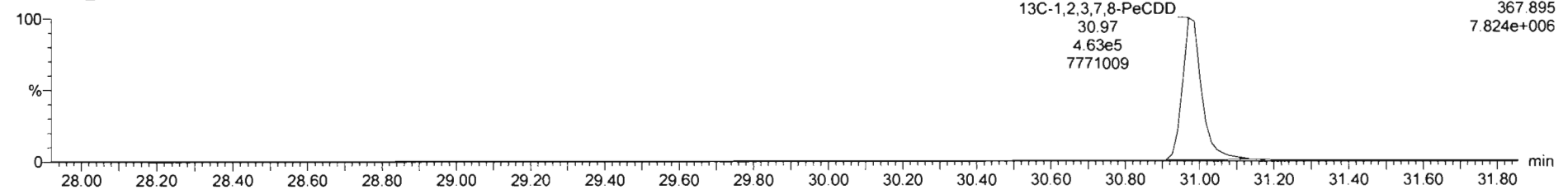


13C-1,2,3,7,8-PeCDD

200307R1_1



200307R1_1



Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

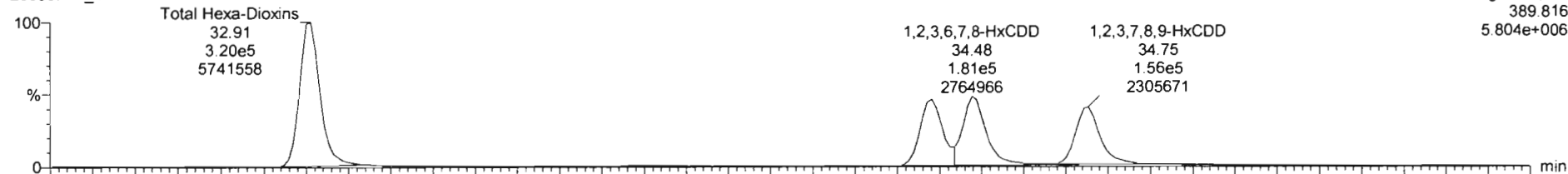
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

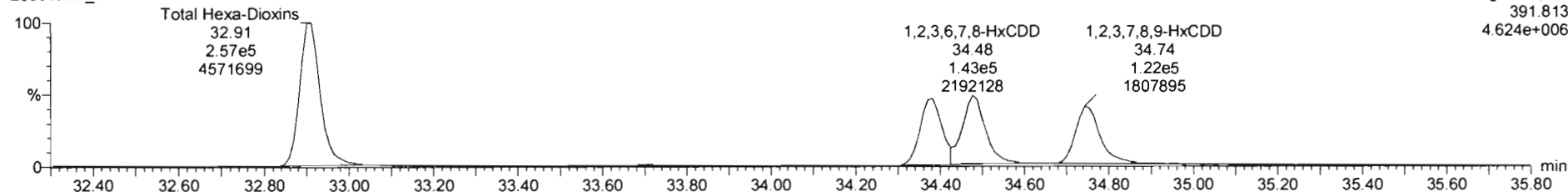
DATE: 20030711 11

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

200307R1_1

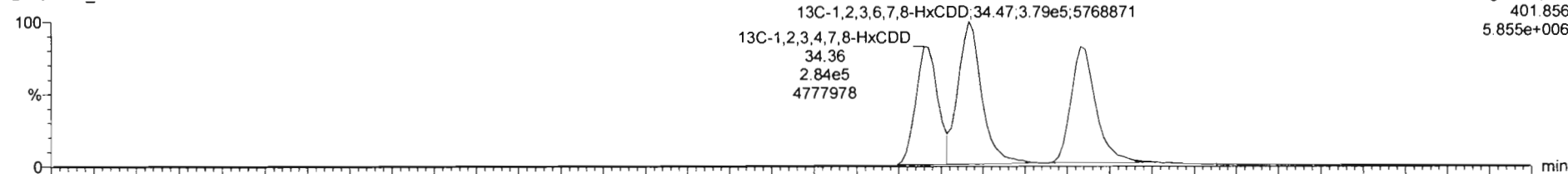


200307R1_1

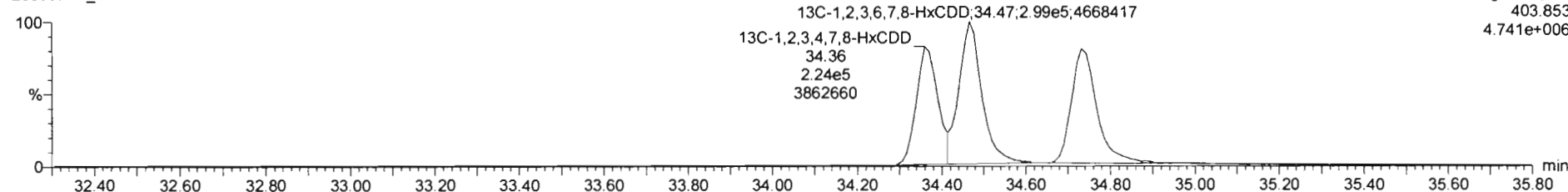


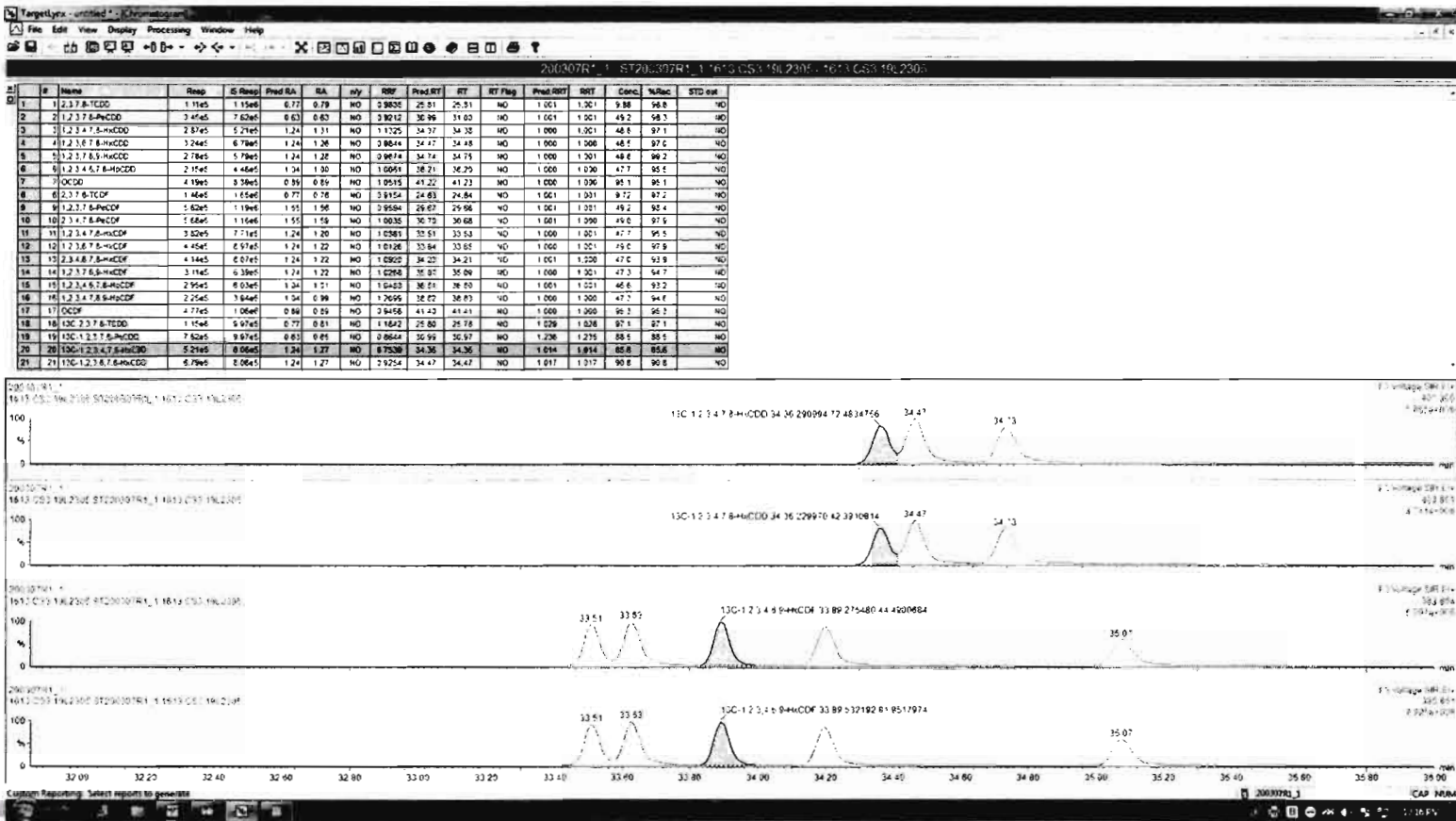
13C-1,2,3,4,7,8-HxCDD

200307R1_1



200307R1_1





Dataset: Untitled

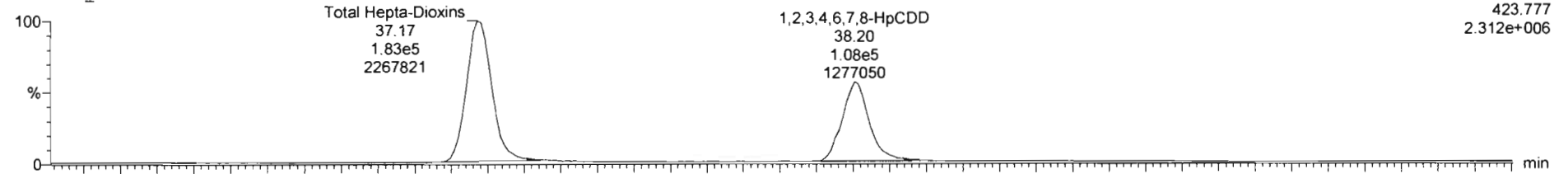
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

0, ID: ST200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

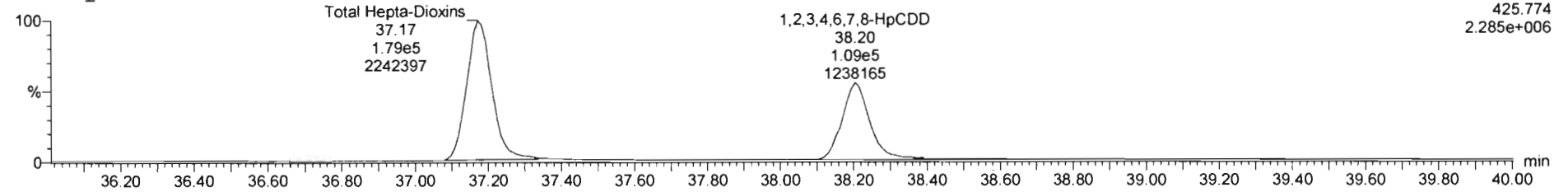
1,2,3,4,6,7,8-HpCDD

200307R1_1



F4:Voltage SIR,EI+
423.777
2.312e+006

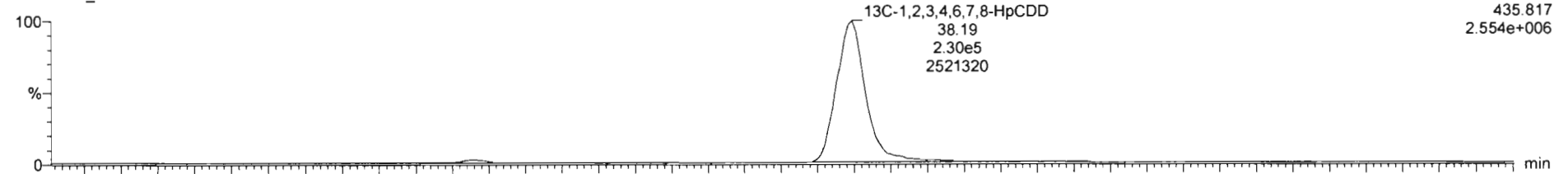
200307R1_1



F4:Voltage SIR,EI+
425.774
2.285e+006

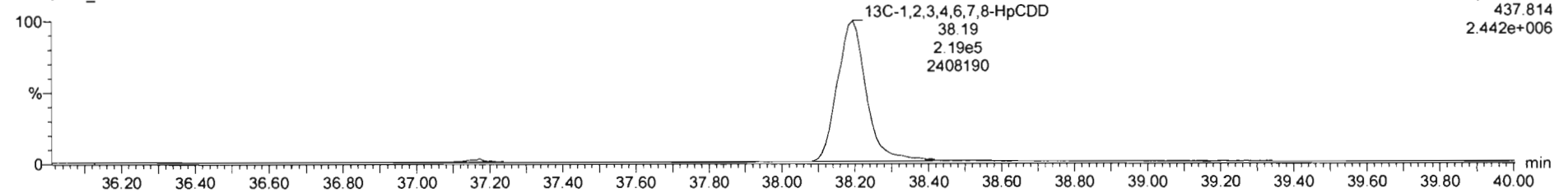
13C-1,2,3,4,6,7,8-HpCDD

200307R1_1

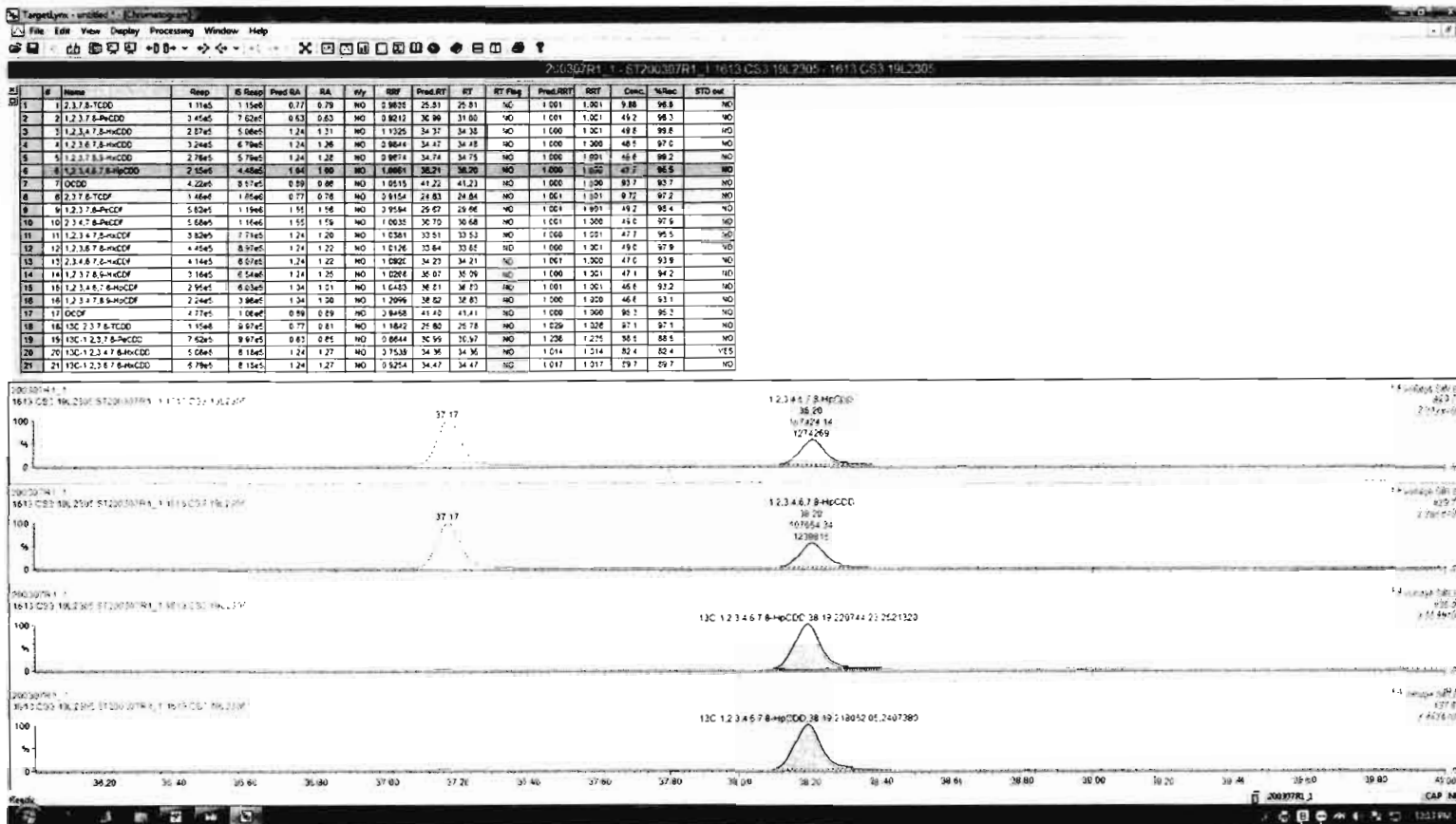


F4:Voltage SIR,EI+
435.817
2.554e+006

200307R1_1



F4:Voltage SIR,EI+
437.814
2.442e+006

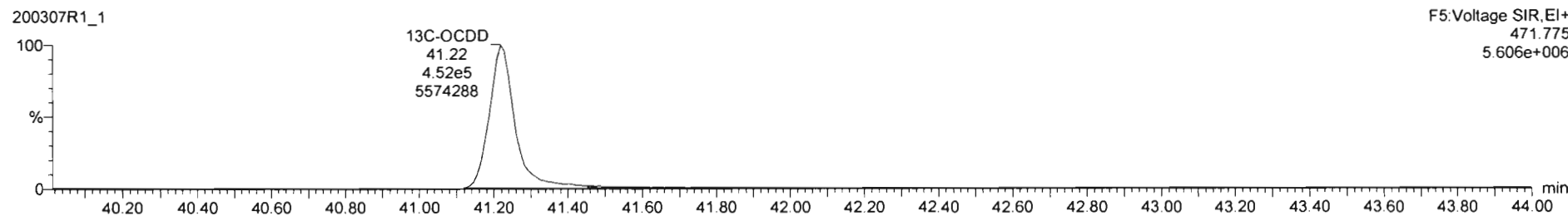
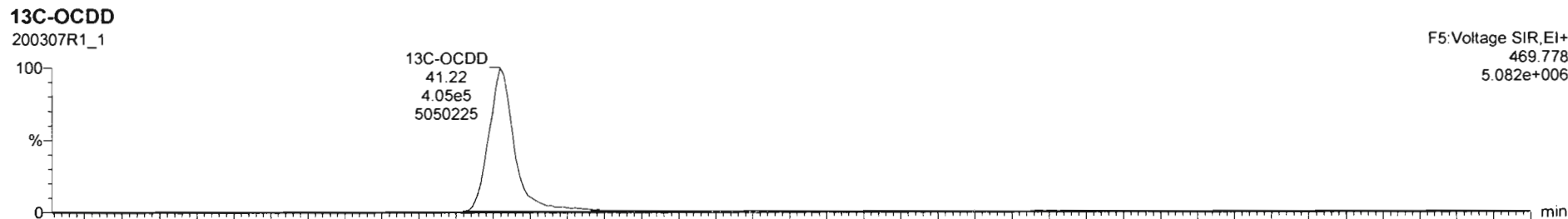
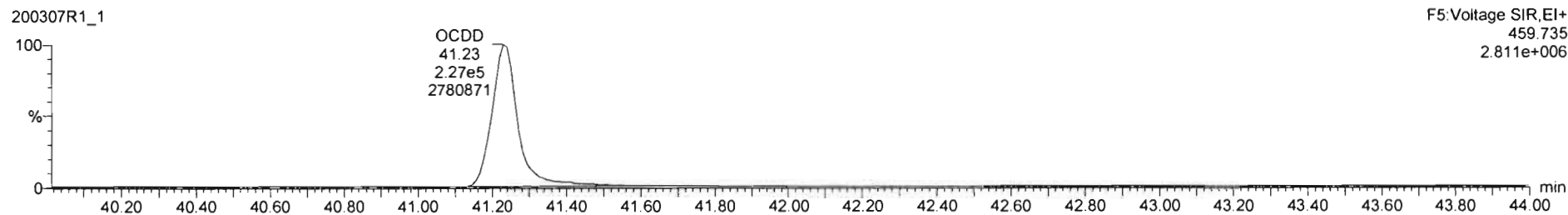
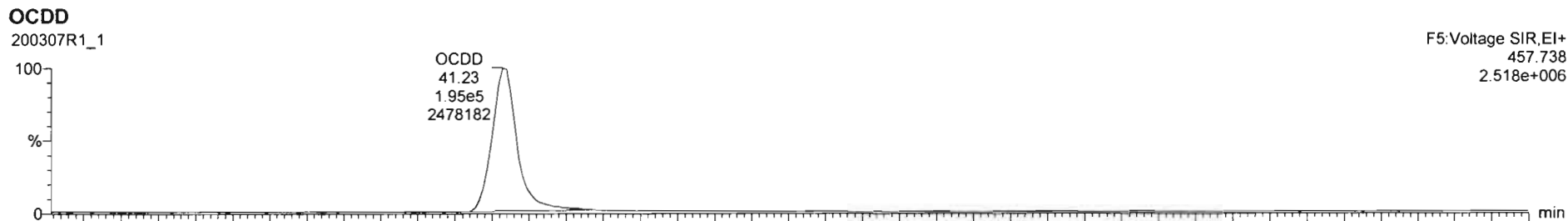


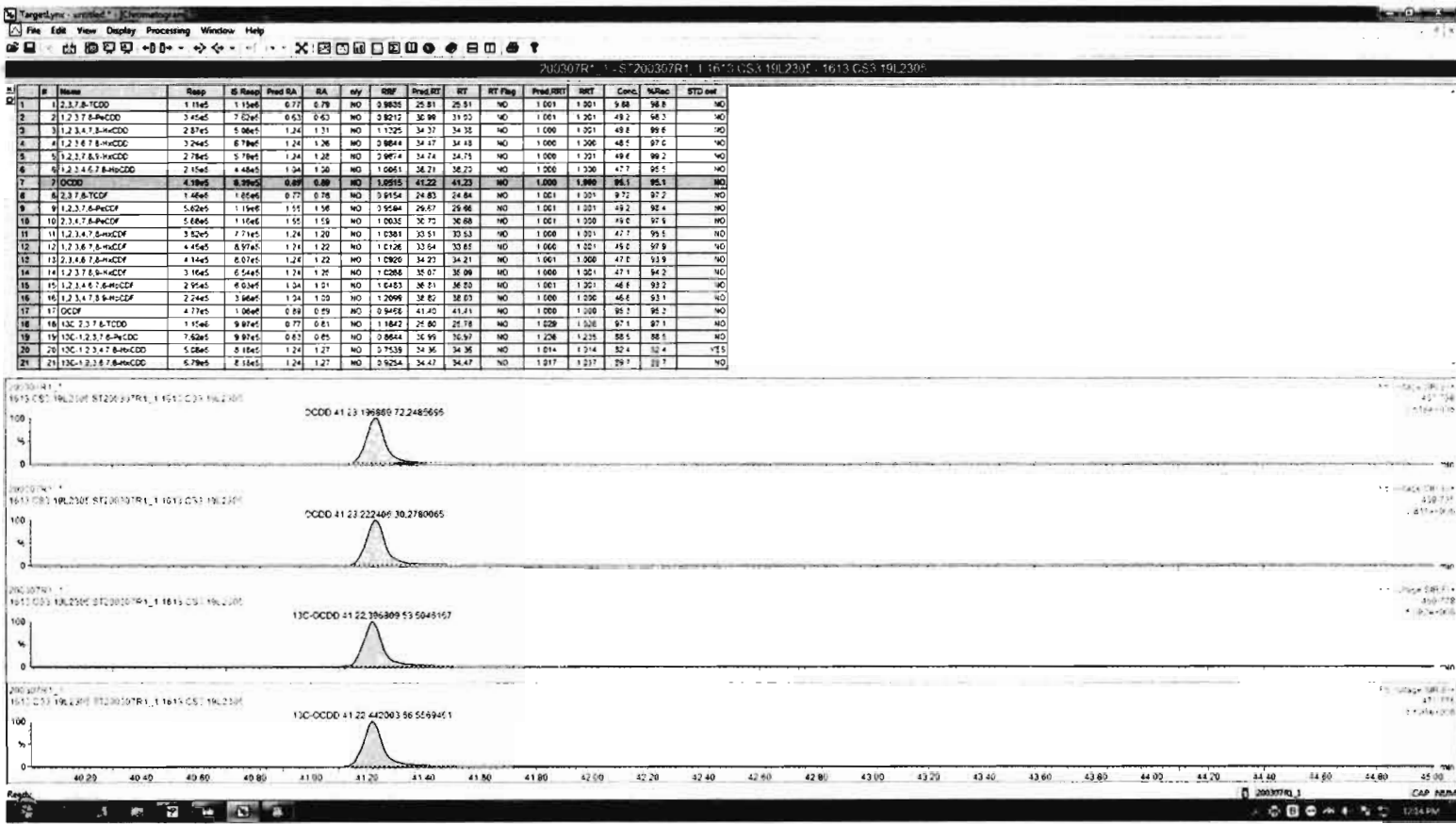
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305





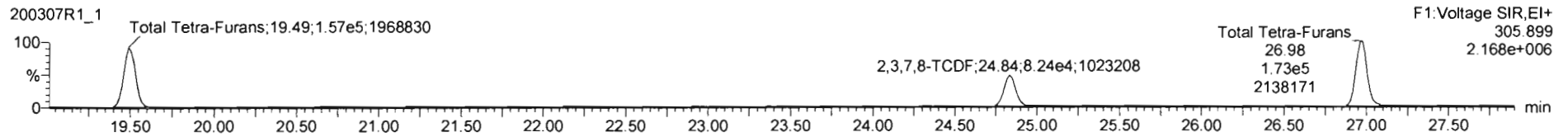
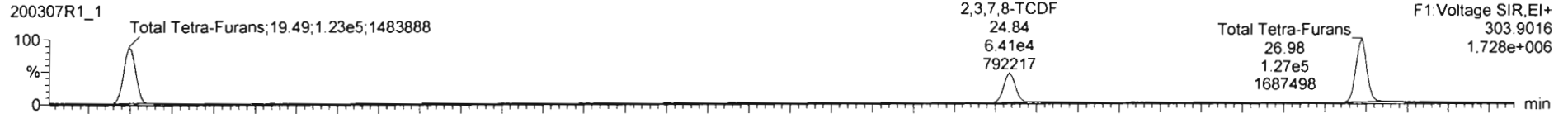
#	Name	Resp	IS Resp	Prod SA	SA	rt	QSP	Prod RT	RT	RT Flag	Prod RT1	RT1	Comp	NRoc	STD ref
1	1,2,3,7,8-TCDD	1.15e5	1.15e6	0.77	0.79	NO	3.9635	25.91	25.91	NO	1.001	1.001	9.88	98.8	NO
2	1,2,3,7,8-PeCDD	3.45e5	7.02e5	0.63	0.63	NO	3.8212	30.99	31.00	NO	1.001	1.001	49.2	66.3	NO
3	1,2,3,4,7,8-HxCDD	2.87e5	5.86e5	1.24	1.31	NO	1.1725	34.37	34.35	NO	1.000	1.001	49.8	99.6	NO
4	1,2,3,6,7,8-HxCDD	3.24e5	6.79e5	1.24	1.26	NO	3.9844	34.17	34.18	NO	1.000	1.000	48.5	97.0	NO
5	1,2,3,7,8,9-HxCDD	2.78e5	3.79e5	1.24	1.25	NO	3.9574	34.74	34.75	NO	1.000	1.001	49.6	99.2	NO
6	1,2,3,4,6,7,8-HxCDD	2.15e5	4.48e5	1.24	1.20	NO	1.0061	38.21	38.22	NO	1.000	1.000	47.1	95.5	NO
7	OCDD	4.19e5	8.29e5	0.89	0.89	NO	3.2915	41.22	41.23	NO	1.000	1.000	95.1	95.1	NO
8	2,3,7,8-TCDF	1.46e5	1.85e5	0.77	0.78	NO	3.9154	24.83	24.84	NO	1.001	1.001	9.72	97.2	NO
9	1,2,3,7,8-PeCDF	5.62e5	1.15e6	1.51	1.58	NO	3.9584	26.67	26.66	NO	1.001	1.001	49.2	92.4	NO
10	1,2,3,4,7,8-HxCDF	5.68e5	1.15e6	1.51	1.59	NO	1.0032	30.70	30.68	NO	1.001	1.000	49.0	97.9	NO
11	1,2,3,4,7,8-HxCDF	3.52e5	7.71e5	1.24	1.20	NO	1.0301	30.51	30.53	NO	1.000	1.001	47.7	95.5	NO
12	1,2,3,6,7,8-HxCDF	4.45e5	8.97e5	1.24	1.22	NO	1.0126	33.54	33.65	NO	1.000	1.001	49.0	97.9	NO
13	1,2,3,4,6,7,8-HxCDF	4.14e5	8.07e5	1.24	1.22	NO	1.0020	34.23	34.21	NO	1.001	1.000	47.0	93.9	NO
14	1,2,3,7,8,9-HxCDF	3.16e5	6.54e5	1.24	1.20	NO	1.0288	35.07	35.09	NO	1.000	1.001	47.1	94.2	NO
15	1,2,3,4,6,7,8-HxCDF	2.95e5	6.03e5	1.24	1.21	NO	1.0483	36.51	36.50	NO	1.001	1.001	46.6	93.2	NO
16	1,2,3,4,7,8-HxCDF	2.24e5	3.86e5	1.24	1.20	NO	1.2099	38.82	38.83	NO	1.000	1.000	46.6	93.1	NO
17	OCDF	4.77e5	1.06e6	0.89	0.89	NO	0.9458	41.40	41.41	NO	1.000	1.000	95.2	95.2	NO
18	13C-2,3,7,8-TCDD	1.15e6	9.97e5	0.77	0.81	NO	1.1842	25.80	25.78	NO	1.000	1.000	97.1	97.1	NO
19	13C-1,2,3,7,8-PeCDD	7.58e5	9.97e5	0.63	0.65	NO	3.8964	30.99	30.97	NO	1.000	1.000	88.5	88.5	NO
20	13C-1,2,3,4,7,8-HxCDD	5.58e5	8.18e5	1.24	1.27	NO	3.7538	34.36	34.36	NO	1.000	1.000	82.4	82.4	YES
21	13C-1,2,3,6,7,8-HxCDD	6.79e5	2.18e5	1.24	1.27	NO	3.9254	34.47	34.47	NO	1.001	1.001	89.7	89.7	NO

Dataset: Untitled

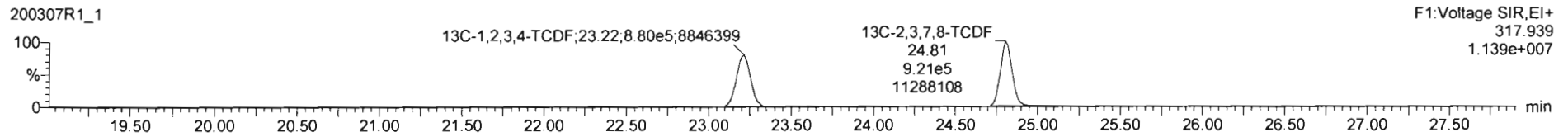
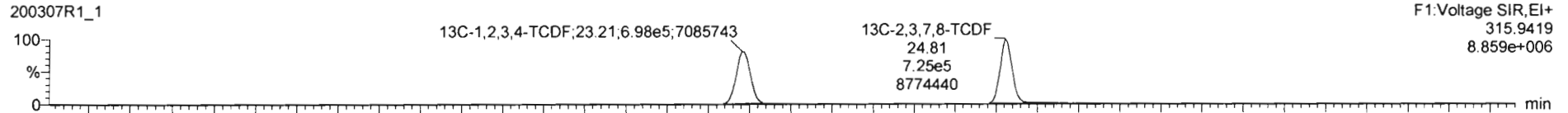
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_1; Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

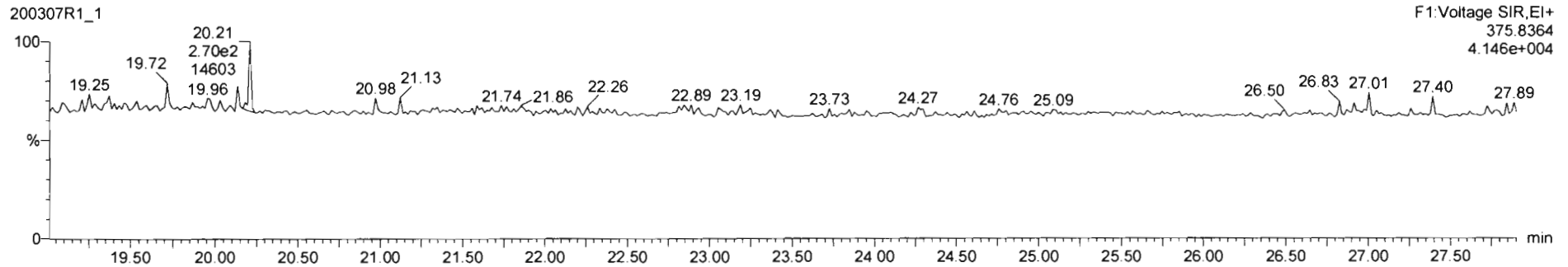
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

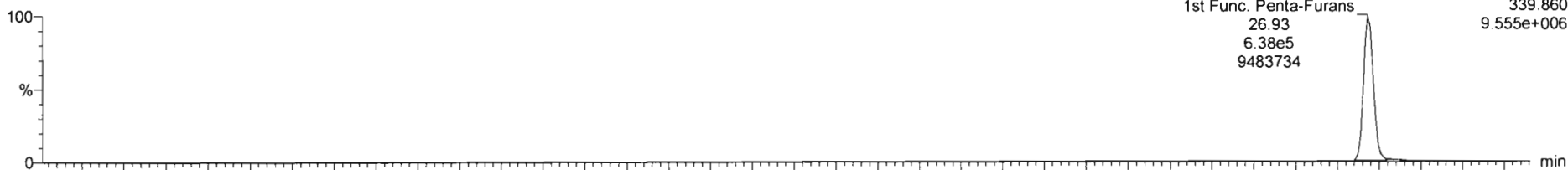
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

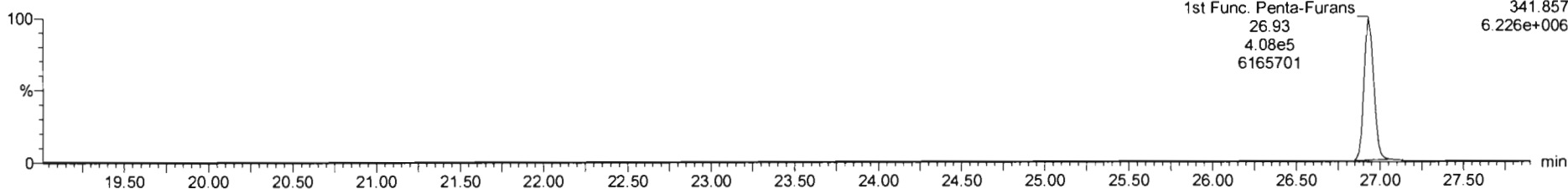
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200307R1_1

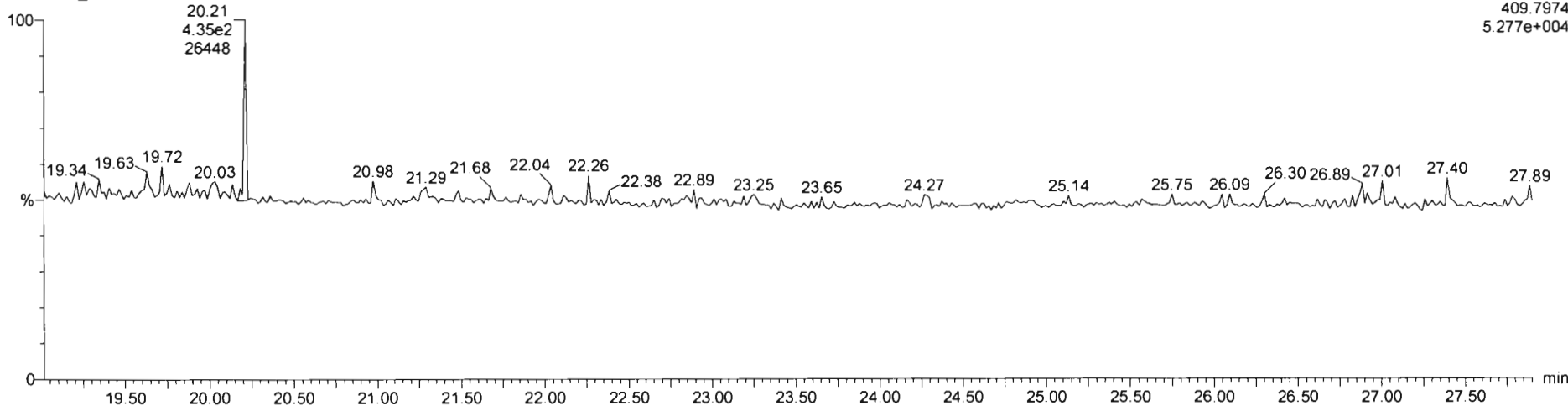


200307R1_1



DPE6

200307R1_1



Dataset: Untitled

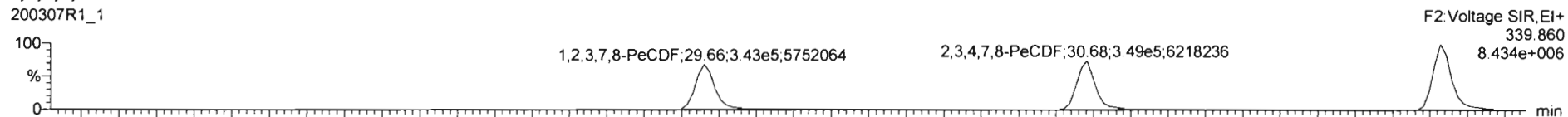
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

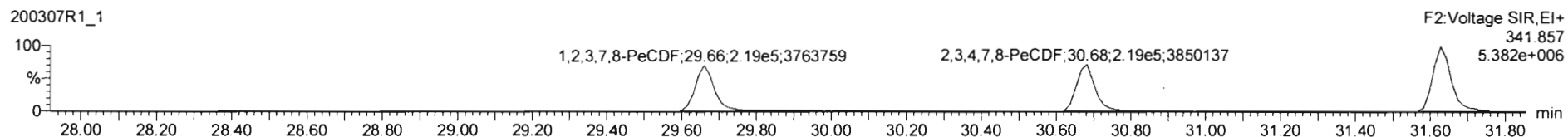
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDF

200307R1_1

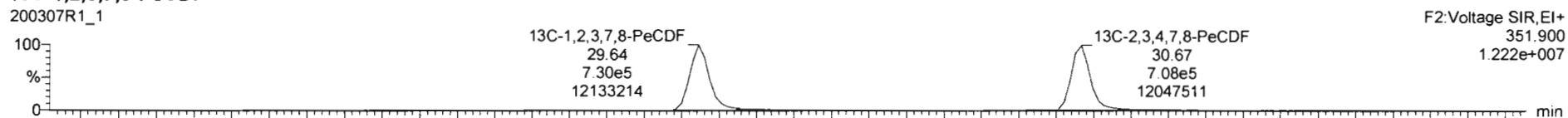


200307R1_1

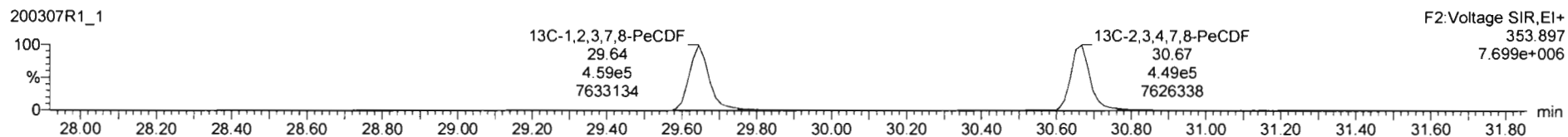


13C-1,2,3,7,8-PeCDF

200307R1_1

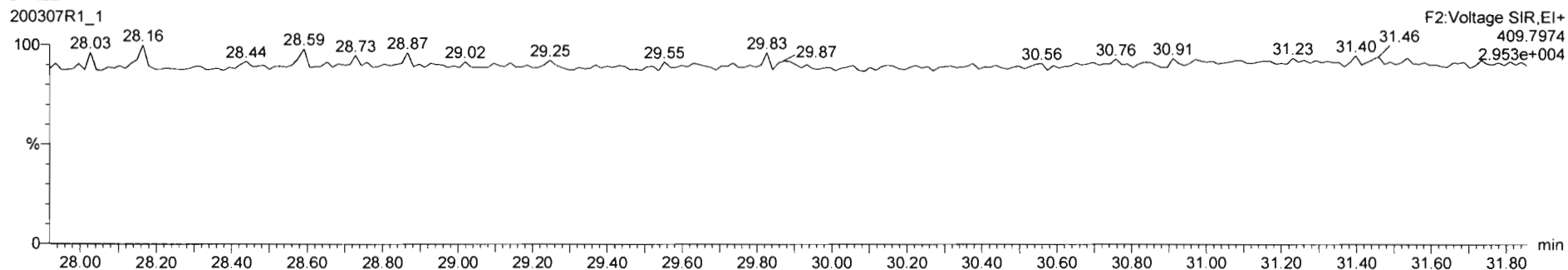


200307R1_1



DPE2

200307R1_1



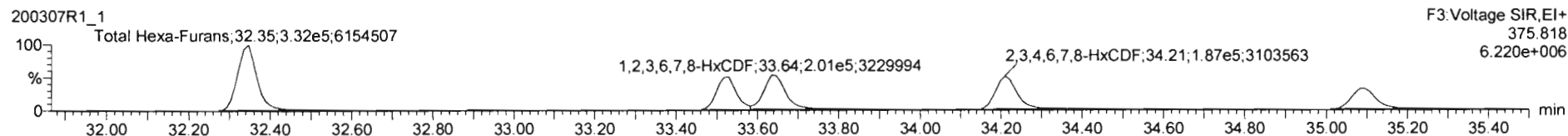
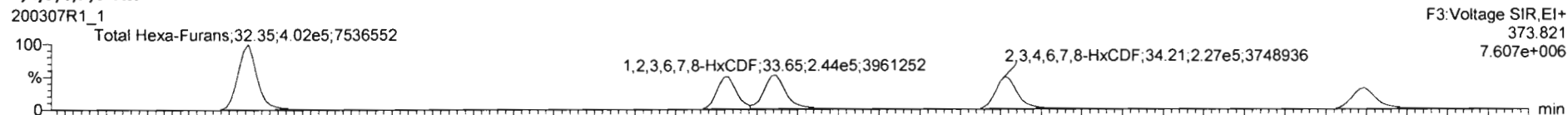
Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

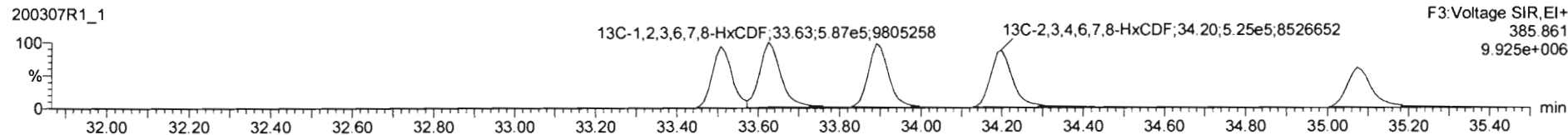
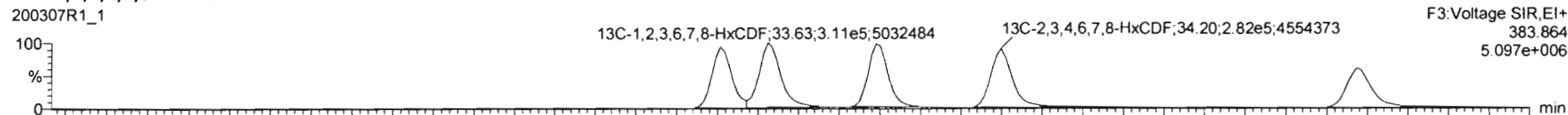
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

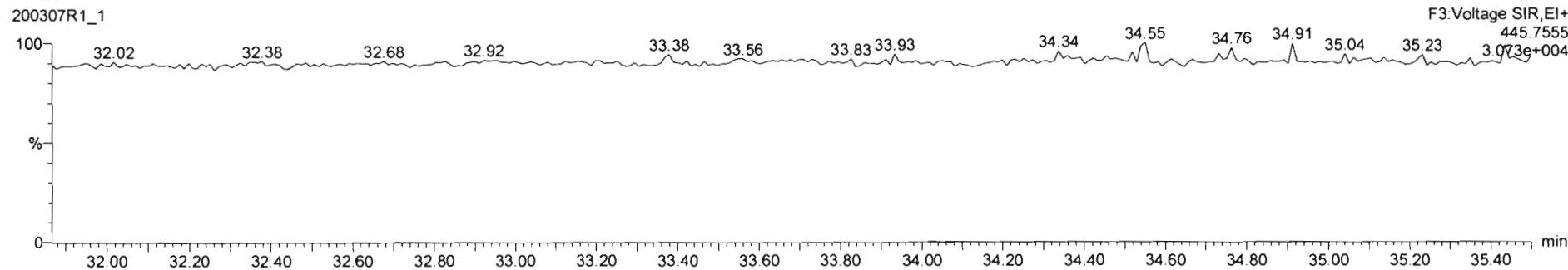
1,2,3,4,7,8-HxCDF

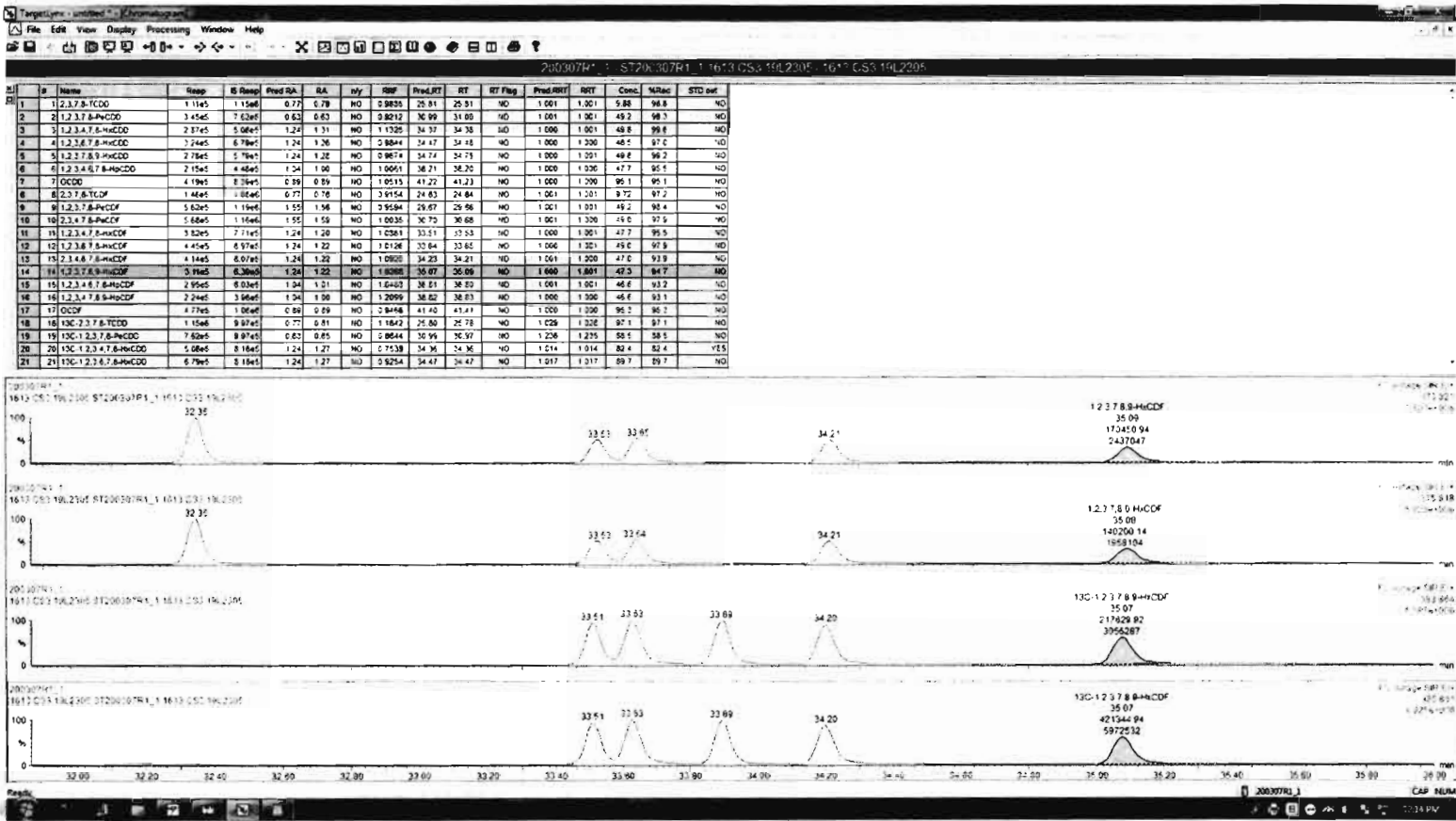


13C-1,2,3,4,7,8-HxCDF



DPE3





#	Name	Comp	IS Resp	Prod SA	RA	Infy	SNP	Prod/LIT	RT	RT Flag	Prod/RT	RTT	Conc	MSAc	STD dev
1	1,2,3,7,8-TCDD	1.11e5	1.15e6	0.77	0.78	NO	3.8835	25.91	25.91	NO	1.001	1.001	5.88	96.8	NO
2	1,2,3,7,8-PeCDD	3.45e5	7.62e6	0.63	0.63	NO	3.8212	30.99	31.00	NO	1.001	1.001	49.2	98.3	NO
3	1,2,3,4,7,8-HxCDD	2.87e5	5.08e6	1.24	1.31	NO	1.1725	34.37	34.38	NO	1.000	1.001	48.8	99.8	NO
4	1,2,3,6,7,8-HxCDD	2.24e5	6.78e6	1.24	1.26	NO	3.8844	34.47	34.48	NO	1.000	1.000	48.5	97.0	NO
5	1,2,3,7,8,9-HxCDD	2.78e5	5.79e6	1.24	1.26	NO	3.9674	34.74	34.75	NO	1.000	1.001	48.6	96.2	NO
6	1,2,3,4,6,7,8-HxCDD	2.75e5	4.48e6	1.24	1.30	NO	1.0691	36.71	36.75	NO	1.000	1.000	47.7	95.1	NO
7	OCDD	4.19e5	8.39e6	0.99	0.94	NO	1.0513	41.22	41.23	NO	1.000	1.000	95.1	95.1	NO
8	2,3,7,8-TCDF	1.48e5	3.04e6	0.72	0.76	NO	3.9154	24.83	24.84	NO	1.001	1.001	9.72	97.2	NO
9	1,2,3,7,8-PeCDF	5.62e5	1.19e6	1.55	1.58	NO	2.9594	29.67	29.66	NO	1.001	1.001	49.2	98.4	NO
10	1,2,3,4,7,8-HxCDF	5.68e5	1.16e6	1.55	1.58	NO	1.0035	30.75	30.68	NO	1.001	1.000	49.0	97.9	NO
11	1,2,3,4,7,8-HxCDF	5.62e5	7.71e5	1.24	1.20	NO	1.0381	33.51	33.53	NO	1.000	1.001	47.7	95.5	NO
12	1,2,3,6,7,8-HxCDF	4.45e5	6.97e5	1.24	1.22	NO	1.0128	33.64	33.65	NO	1.000	1.001	49.0	97.9	NO
13	1,2,3,6,7,8-HxCDF	4.44e5	6.67e5	1.24	1.22	NO	1.0920	34.23	34.21	NO	1.001	1.000	47.0	93.9	NO
14	1,2,3,7,8,9-HxCDF	3.19e5	6.30e6	1.24	1.22	NO	1.8008	35.87	35.86	NO	1.000	1.001	47.3	94.7	NO
15	1,2,3,4,6,7,8-HxCDF	2.95e5	6.03e6	1.24	1.21	NO	1.2403	38.81	38.82	NO	1.001	1.001	46.6	93.2	NO
16	1,2,3,4,7,8-HxCDF	2.24e5	3.96e6	1.24	1.20	NO	1.2099	38.82	38.83	NO	1.000	1.000	46.6	93.1	NO
17	OCDF	4.77e5	1.06e6	0.89	0.89	NO	3.8468	41.40	41.41	NO	1.000	1.000	95.1	95.1	NO
18	1,3C-1,2,3,7,8-TCDD	1.15e6	9.97e5	0.77	0.81	NO	1.1842	25.80	25.78	NO	1.028	1.030	97.1	97.1	NO
19	1,3C-1,2,3,7,8-PeCDD	7.62e5	9.97e5	0.63	0.85	NO	3.8844	30.99	30.97	NO	1.226	1.235	98.5	98.5	NO
20	1,3C-1,2,3,4,7,8-HxCDD	5.08e5	8.18e5	1.24	1.27	NO	2.7538	34.36	34.36	NO	1.214	1.014	88.4	88.4	YES
21	1,3C-1,2,3,6,7,8-HxCDD	6.78e5	8.18e5	1.24	1.27	NO	3.9254	34.47	34.47	NO	1.017	1.017	89.7	89.7	NO

Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time
Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

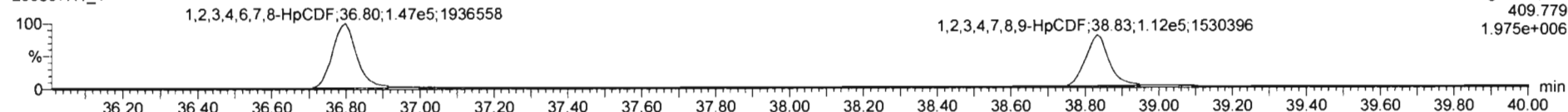
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200307R1_1

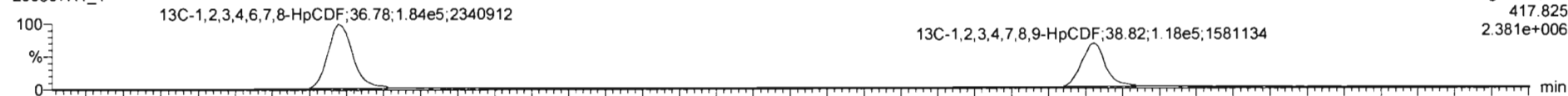


200307R1_1

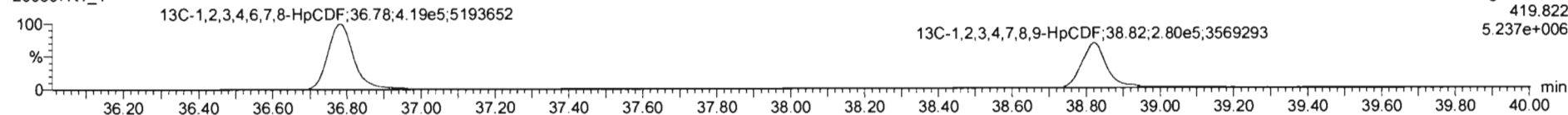


13C-1,2,3,4,6,7,8-HpCDF

200307R1_1

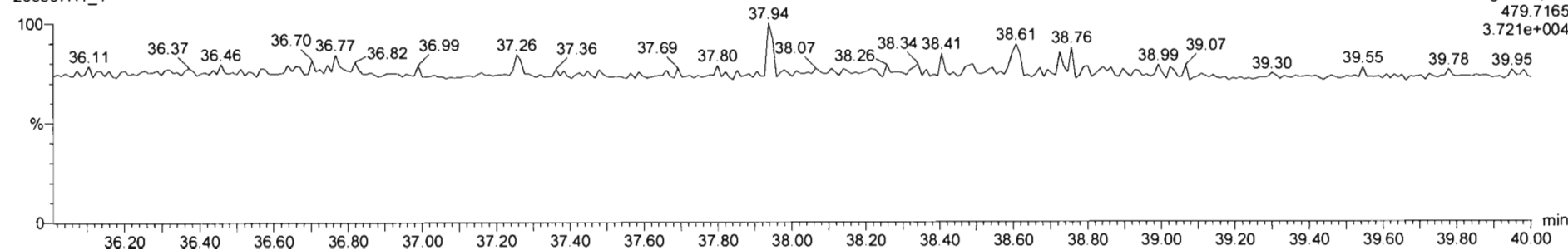


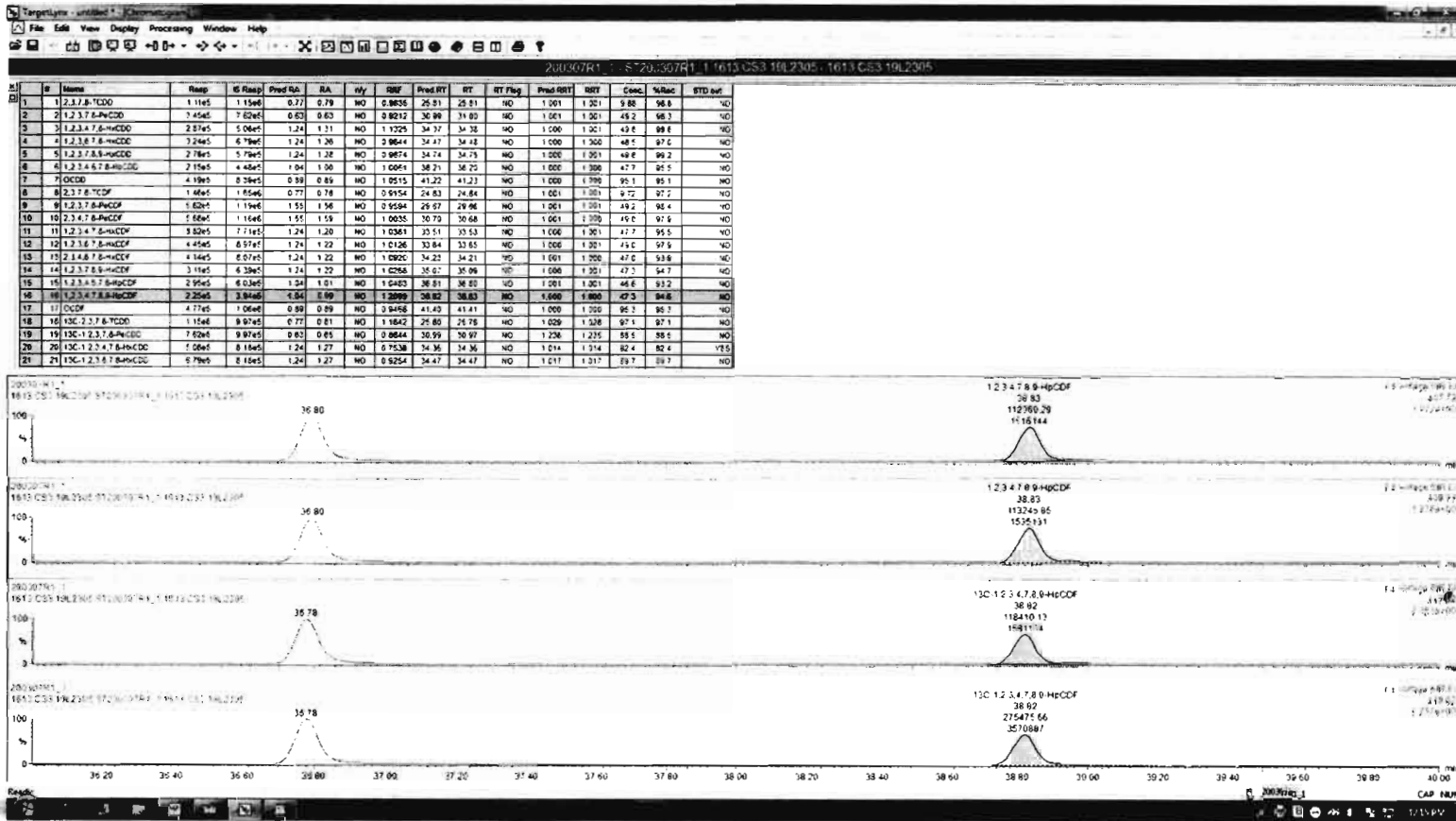
200307R1_1



DPE4

200307R1_1





Dataset: Untitled

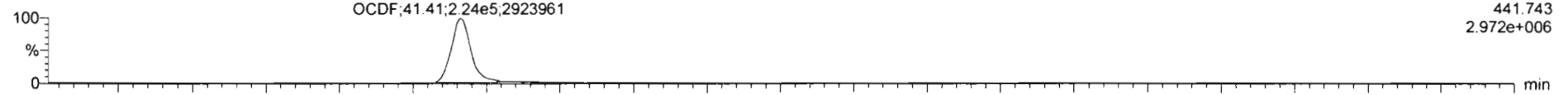
Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

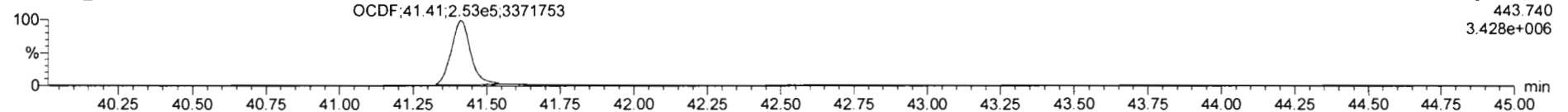
Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDF

200307R1_1

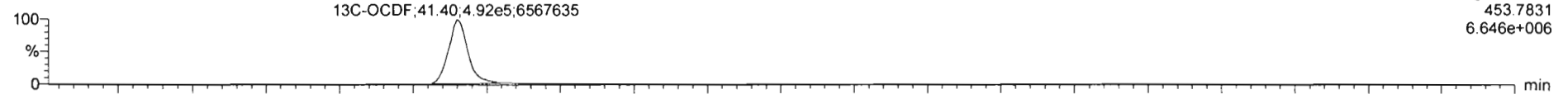


200307R1_1

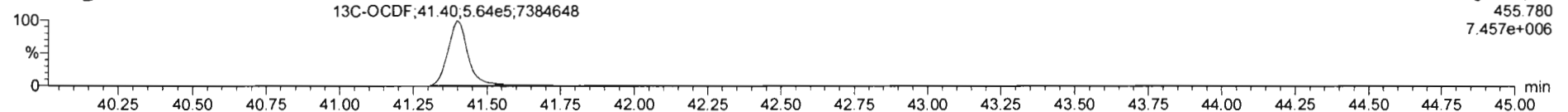


13C-OCDF

200307R1_1

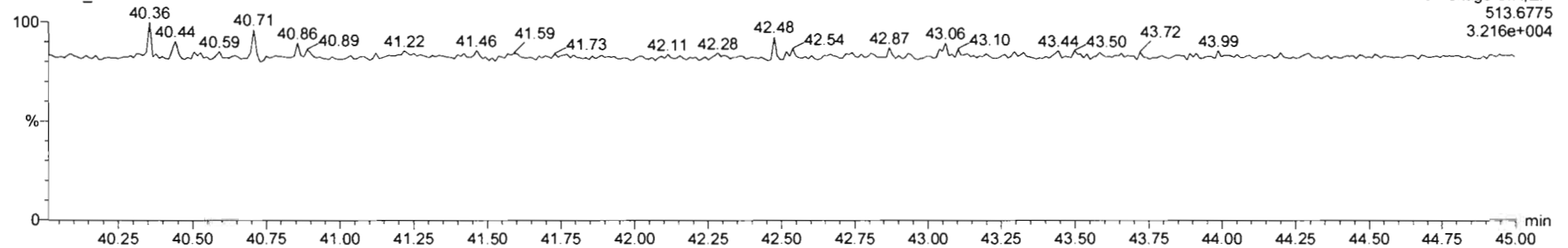


200307R1_1



DPE5

200307R1_1

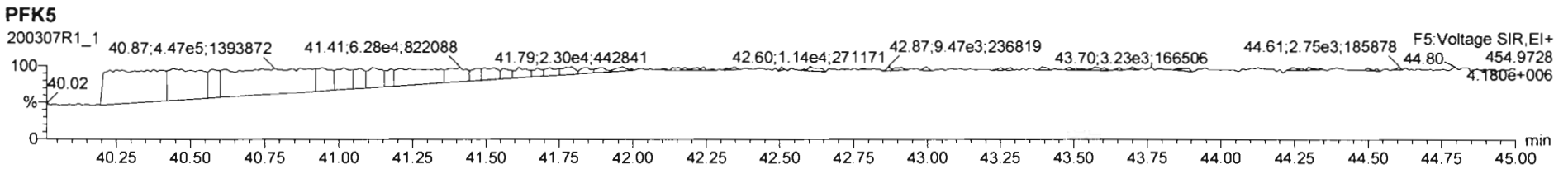
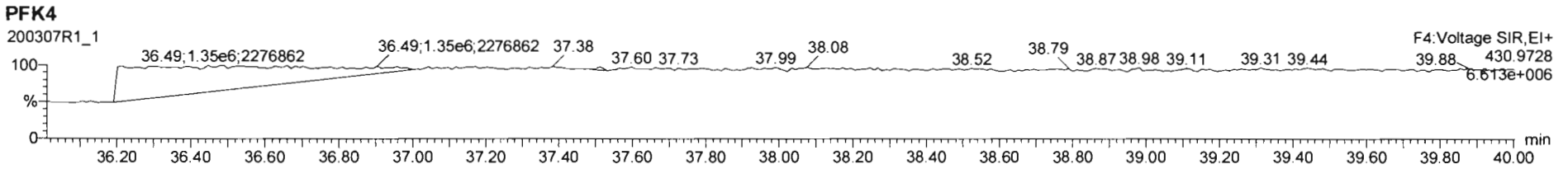
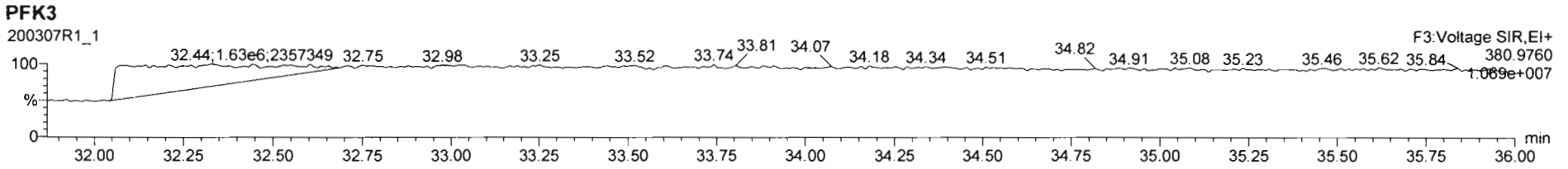
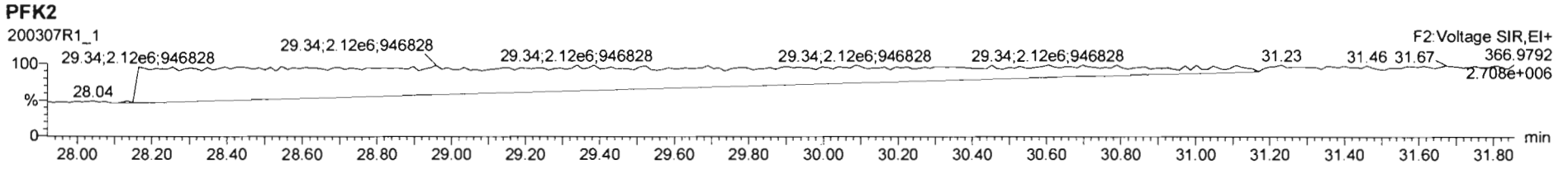
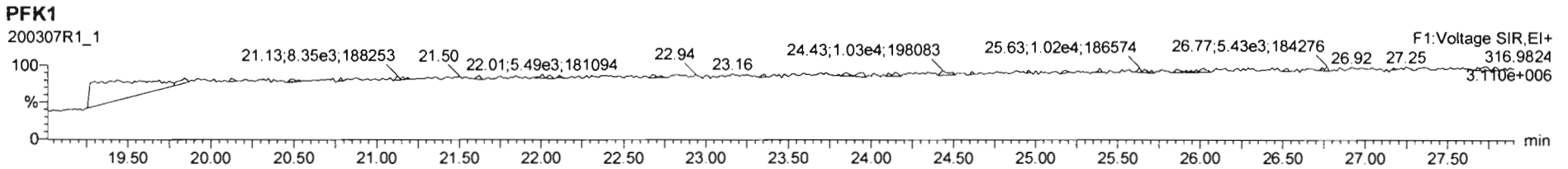


Dataset: Untitled

Last Altered: Monday, March 09, 2020 12:05:04 Pacific Daylight Time

Printed: Monday, March 09, 2020 12:11:12 Pacific Daylight Time

Name: 200307R1_1, Date: 07-Mar-2020, Time: 09:44:00, ID: ST200307R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Experiment Calibration Report

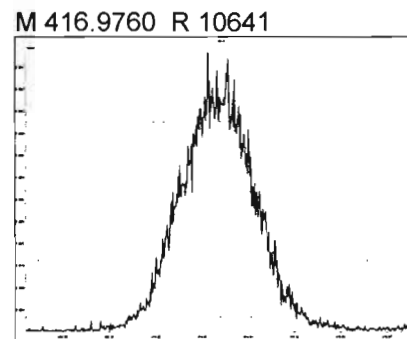
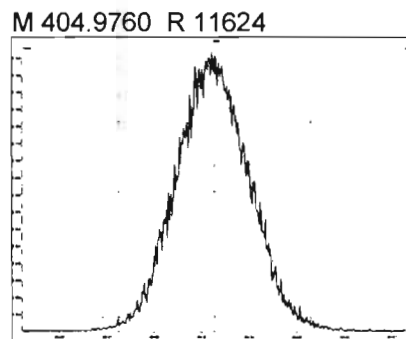
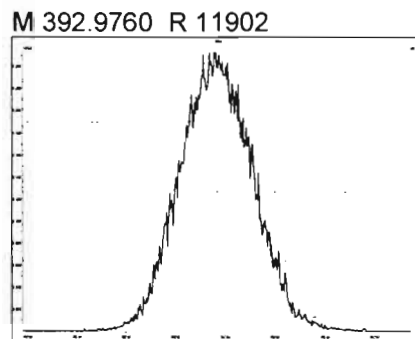
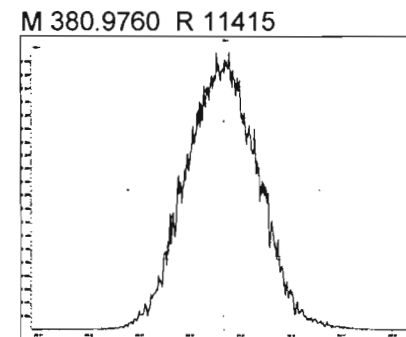
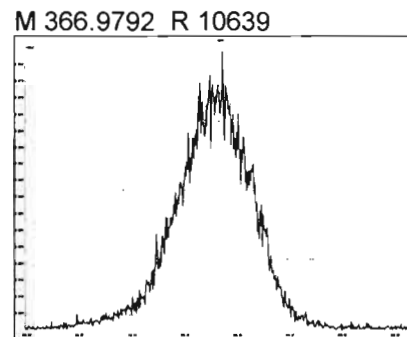
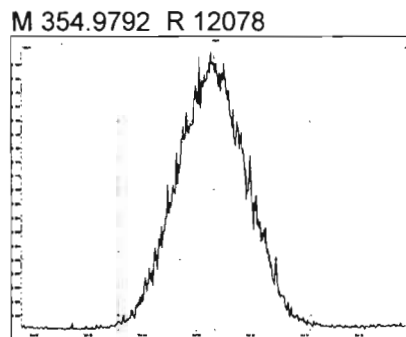
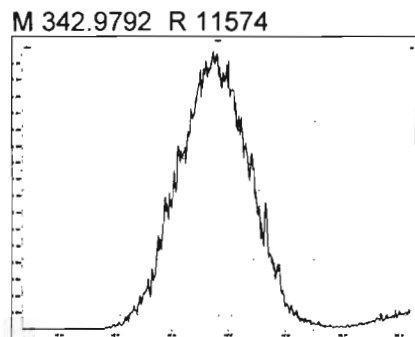
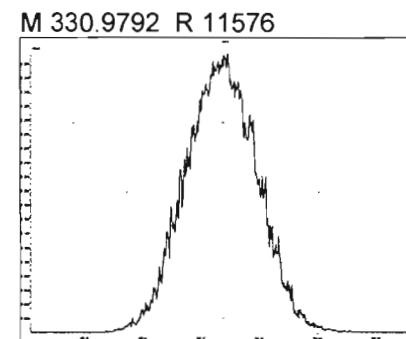
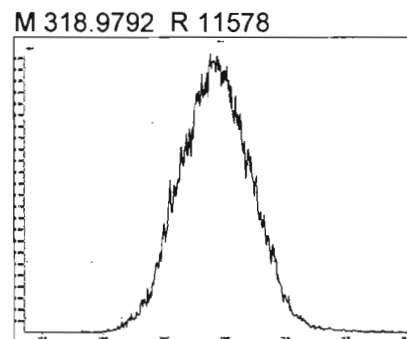
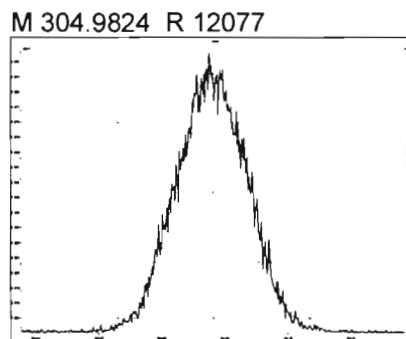
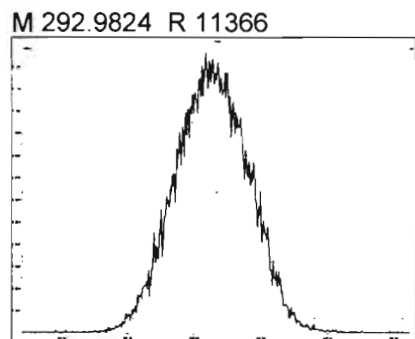
MassLynx 4.1 SCN815

MANUAL RES CHECK

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

PROCESSED AFTER
FILAMENT WAS REPLACED

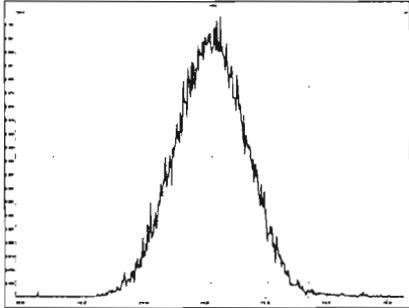
Printed: Monday, March 09, 2020 09:53:22 Pacific Daylight Time



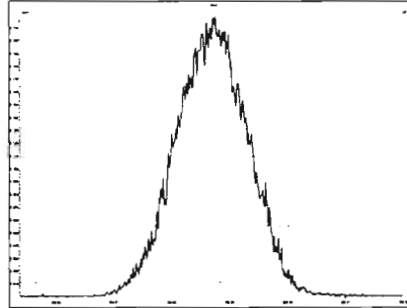
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, March 09, 2020 09:54:37 Pacific Daylight Time

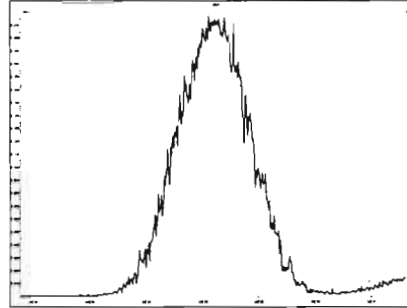
M 318.9792 R 11847



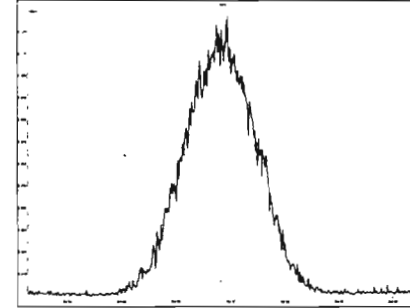
M 330.9792 R 11795



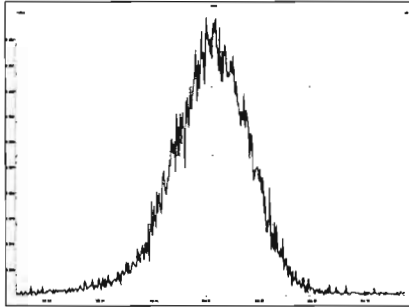
M 342.9792 R 12136



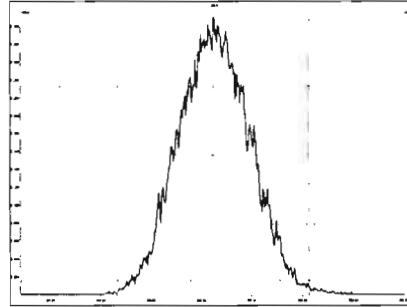
M 354.9792 R 11575



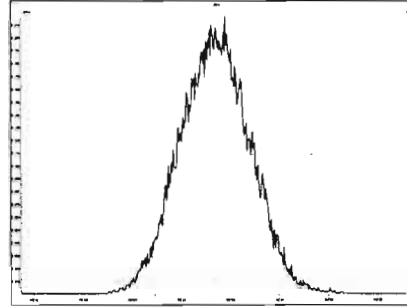
M 366.9792 R 11365



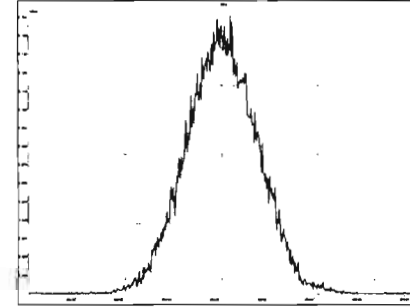
M 380.9760 R 11904



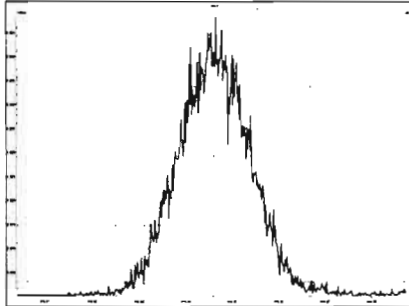
M 392.9760 R 12193



M 404.9760 R 12078



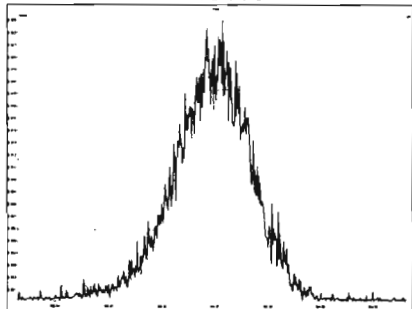
M 416.9760 R 11736



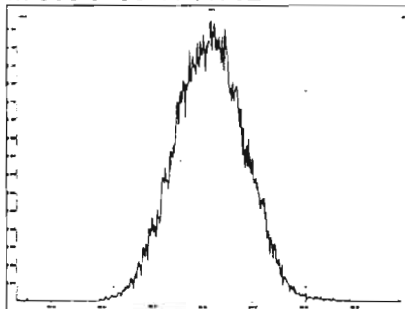
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, March 09, 2020 09:55:38 Pacific Daylight Time

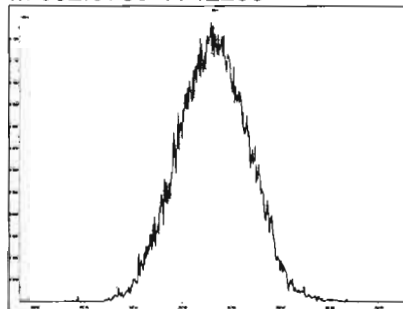
M 366.9792 R 10159



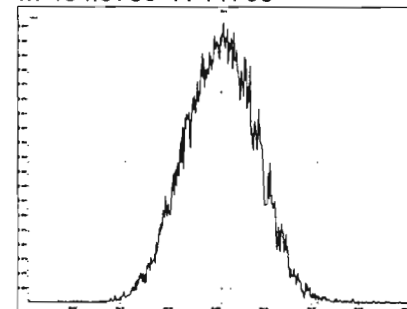
M 380.9760 R 11792



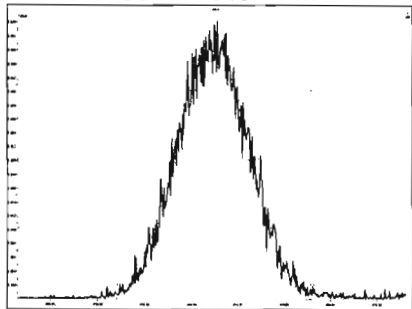
M 392.9760 R 12253



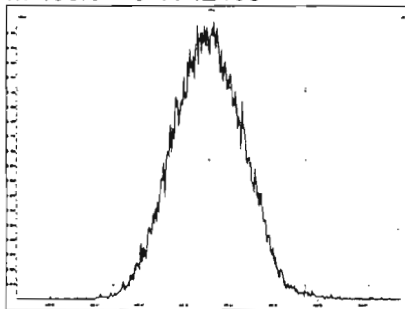
M 404.9760 R 11738



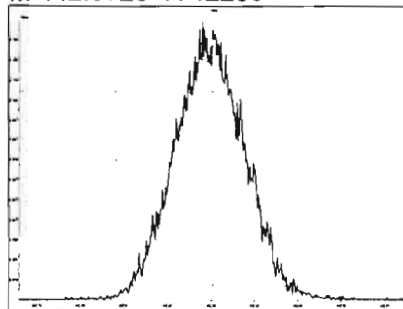
M 416.9760 R 11467



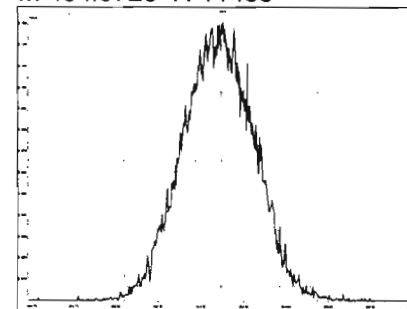
M 430.9728 R 12138



M 442.9728 R 12255



M 454.9728 R 11466



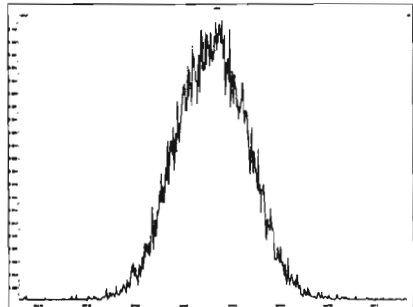
Experiment Calibration Report

MassLynx 4.1 SCN815

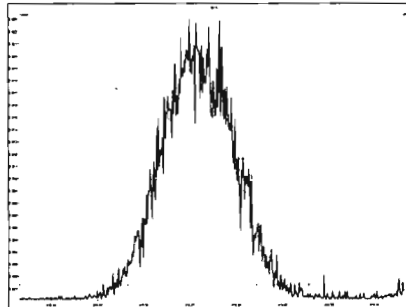
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, March 09, 2020 09:56:15 Pacific Daylight Time

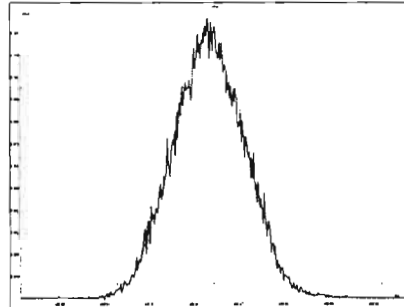
M 404.9760 R 11212



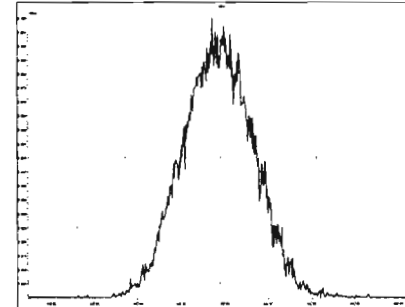
M 416.9760 R 11682



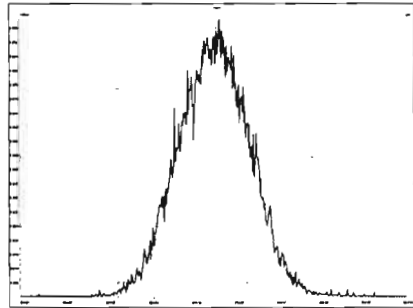
M 430.9728 R 11735



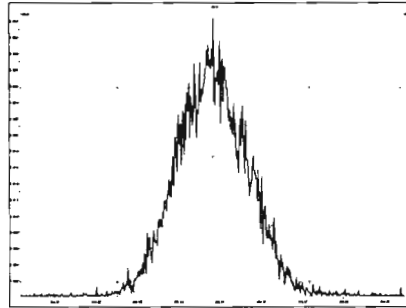
M 442.9728 R 12196



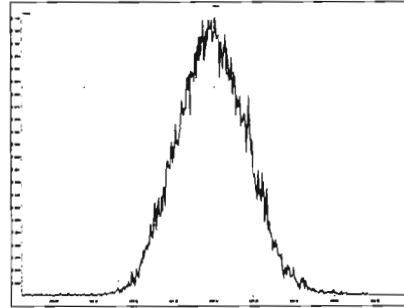
M 454.9728 R 11792



M 466.9728 R 12075



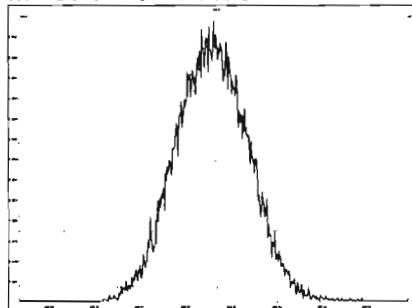
M 480.9696 R 11905



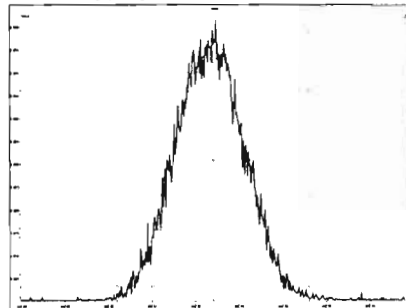
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, March 09, 2020 09:56:53 Pacific Daylight Time

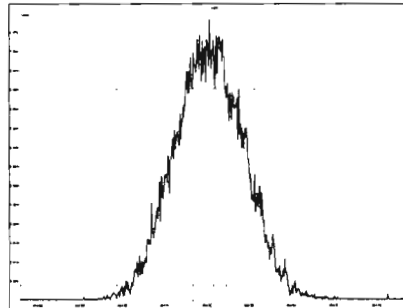
M 430.9728 R 11737



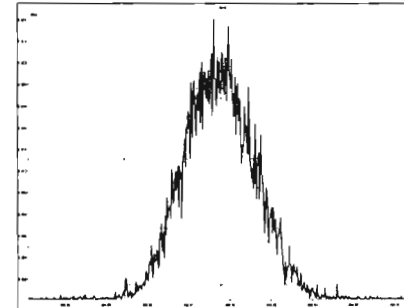
M 442.9728 R 12753



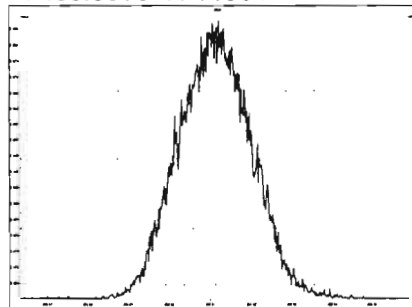
M 454.9728 R 12074



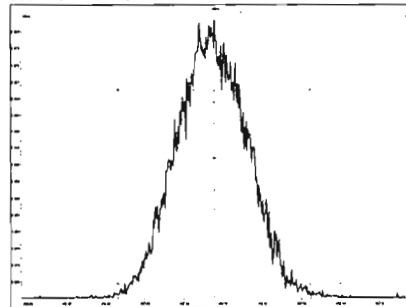
M 466.9728 R 11737



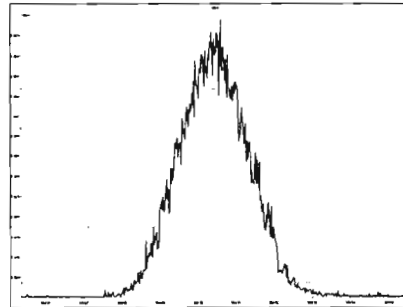
M 480.9696 R 11681



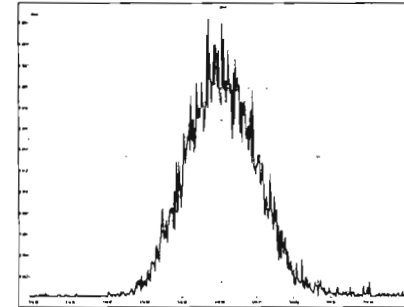
M 492.9696 R 12373



M 504.9696 R 12254



M 516.9697 R 11846



Dataset: U:\VG12.PRO\Results\200315R2\200315R2-2.qld

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 09:13:11 Pacific Daylight Time

GPB 03/16/2020
C7 03/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	6.24e4	6.96e5	0.78	NO	0.983	25.77	25.75	NO	1.001	1.001	9.1243	91.2	NO
2	2 1,2,3,7,8-PeCDD	2.15e5	5.12e5	0.62	NO	0.921	31.04	31.03	NO	1.001	1.000	45.537	91.1	NO
3	3 1,2,3,4,7,8-HxCDD	1.88e5	3.59e5	1.24	NO	1.13	34.44	34.44	NO	1.000	1.000	46.298	92.6	NO
4	4 1,2,3,6,7,8-HxCDD	1.98e5	4.26e5	1.23	NO	0.984	34.53	34.54	NO	1.000	1.000	47.121	94.2	NO
5	5 1,2,3,7,8,9-HxCDD	1.86e5	4.12e5	1.24	NO	0.967	34.81	34.81	NO	1.000	1.000	46.581	93.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.39e5	2.99e5	1.02	NO	1.01	38.27	38.28	NO	1.000	1.001	46.191	92.4	NO
7	7 OCDD	2.74e5	5.94e5	0.87	NO	1.05	41.48	41.49	NO	1.000	1.000	87.892	87.9	NO
8	8 2,3,7,8-TCDF	7.27e4	9.16e5	0.77	NO	0.915	24.77	24.76	NO	1.001	1.001	8.6764	86.8	NO
9	9 1,2,3,7,8-PeCDF	3.12e5	7.04e5	1.55	NO	0.959	29.68	29.67	NO	1.001	1.000	46.230	92.5	NO
10	10 2,3,4,7,8-PeCDF	3.25e5	6.98e5	1.57	NO	1.00	30.73	30.71	NO	1.001	1.000	46.457	92.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.29e5	4.77e5	1.23	NO	1.04	33.56	33.59	NO	1.000	1.001	46.285	92.6	NO
12	12 1,2,3,6,7,8-HxCDF	2.47e5	5.14e5	1.23	NO	1.01	33.70	33.70	NO	1.000	1.000	47.491	95.0	NO
13	13 2,3,4,6,7,8-HxCDF	2.45e5	4.83e5	1.21	NO	1.09	34.29	34.28	NO	1.001	1.001	46.563	93.1	NO
14	14 1,2,3,7,8,9-HxCDF	1.95e5	4.04e5	1.23	NO	1.03	35.13	35.15	NO	1.000	1.001	46.977	94.0	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.81e5	3.75e5	1.01	NO	1.05	36.88	36.87	NO	1.001	1.001	46.061	92.1	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.42e5	2.49e5	1.01	NO	1.21	38.92	38.93	NO	1.000	1.000	47.177	94.4	NO
17	17 OCDF	3.16e5	7.24e5	0.88	NO	0.947	41.64	41.65	NO	1.000	1.000	92.150	92.1	NO
18	18 13C-2,3,7,8-TCDD	6.96e5	5.74e5	0.78	NO	1.18	25.74	25.74	NO	1.029	1.029	102.44	102	NO
19	19 13C-1,2,3,7,8-PeCDD	5.12e5	5.74e5	0.62	NO	0.864	30.92	31.02	NO	1.236	1.240	103.35	103	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.59e5	4.76e5	1.27	NO	0.754	34.43	34.43	NO	1.014	1.014	99.855	99.9	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.26e5	4.76e5	1.26	NO	0.925	34.54	34.53	NO	1.017	1.017	96.736	96.7	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.12e5	4.76e5	1.24	NO	0.829	34.80	34.80	NO	1.025	1.025	104.24	104	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.99e5	4.76e5	1.04	NO	0.598	38.26	38.26	NO	1.127	1.127	104.99	105	NO
24	24 13C-OCDD	5.94e5	4.76e5	0.90	NO	0.571	41.41	41.48	NO	1.219	1.221	218.22	109	NO
25	25 13C-2,3,7,8-TCDF	9.16e5	8.46e5	0.78	NO	1.09	24.76	24.75	NO	0.990	0.989	99.357	99.4	NO
26	26 13C-1,2,3,7,8-PeCDF	7.04e5	8.46e5	1.58	NO	0.876	29.59	29.66	NO	1.183	1.186	94.952	95.0	NO
27	27 13C-2,3,4,7,8-PeCDF	6.98e5	8.46e5	1.58	NO	0.844	30.60	30.70	NO	1.223	1.227	97.795	97.8	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.77e5	4.76e5	0.51	NO	1.00	33.58	33.56	NO	0.989	0.988	100.01	100	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.14e5	4.76e5	0.51	NO	1.12	33.69	33.69	NO	0.992	0.992	96.427	96.4	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.83e5	4.76e5	0.51	NO	1.04	34.27	34.26	NO	1.009	1.009	97.872	97.9	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.04e5	4.76e5	0.52	NO	0.873	35.14	35.13	NO	1.035	1.035	97.112	97.1	NO

Dataset: U:\WG12.PRO\Results\200315R2\200315R2-2.qld

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 09:13:11 Pacific Daylight Time

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	3.75e5	4.76e5	0.44	NO	0.771	36.85	36.85	NO	1.085	1.085	102.13	102	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.49e5	4.76e5	0.44	NO	0.519	38.94	38.92	NO	1.147	1.146	100.84	101	NO
34	13C-OCDF	7.24e5	4.76e5	0.88	NO	0.696	41.59	41.64	NO	1.225	1.226	218.25	109	NO
35	37Cl-2,3,7,8-TCDD	6.38e4	5.74e5			1.17	25.75	25.75	NO	1.029	1.029	9.4652	94.7	NO
36	13C-1,2,3,4-TCDD	5.74e5	5.74e5	0.80	NO	1.00	25.05	25.02	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	8.46e5	8.46e5	0.78	NO	1.00	23.19	23.09	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	4.76e5	4.76e5	0.52	NO	1.00	33.88	33.96	NO	1.000	1.000	100.00	100	YES ^k
39	Total Tetra-Dioxins		6.96e5			0.983	24.62		NO	0.000		77.080		NO
40	Total Penta-Dioxins		5.12e5			0.921	29.96		NO	0.000		198.76		NO
41	Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		230.82		NO
42	Total Hepta-Dioxins		2.99e5			1.01	37.64		NO	0.000		126.56		NO
43	Total Tetra-Furans		9.16e5			0.915	23.61		NO	0.000		46.471		NO
44	1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		93.984		NO
45	Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		159.94		NO
46	Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		264.15		NO
47	Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		93.238		NO

Dataset: Untitled

Last Altered: Monday, March 16, 2020 11:51:37 Pacific Daylight Time
Printed: Monday, March 16, 2020 11:51:49 Pacific Daylight Time

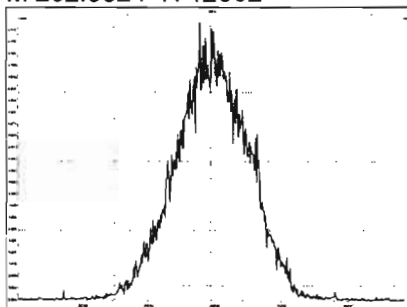
Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

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

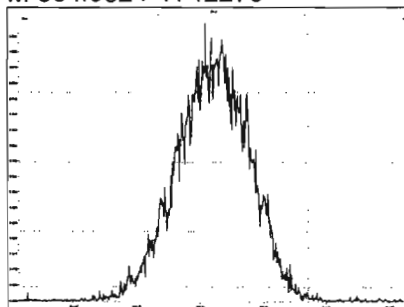
	Name	ID	Acq.Date	Acq.Time
1	200315R2_1	SOLVENT BLANK	16-Mar-20	00:01:01
2	200315R2_2	ST200315R2_1 1613 CS3 19L2305	16-Mar-20	00:47:18
3	200315R2_3	SOLVENT BLANK	16-Mar-20	01:34:51
4	200315R2_4	2000144-09 PDI-081SC-A-08-09-191002 14.98	16-Mar-20	02:22:25
5	200315R2_5	2000144-10 PDI-081SC-A-09-10-191002 16.34	16-Mar-20	03:10:00
6	200315R2_6	2000144-11 PDI-082SC-A-04-05-191002 17.76	16-Mar-20	03:57:33
7	200315R2_7	2000144-12 PDI-082SC-A-05-06-191002 17.56	16-Mar-20	04:45:07
8	200315R2_8	2000144-13 PDI-084SC-A-01-02-191002 20.48	16-Mar-20	05:32:42
9	200315R2_9	2000144-14 PDI-084SC-A-02-03-191002 20.28	16-Mar-20	06:20:14
10	200315R2_10	1903737-10RE1@2X PDI-055SC-B-02-04-191...	16-Mar-20	07:07:47
11	200315R2_11	1903736-10RE2 PDI-079SC-B-02-04-191014 ...	16-Mar-20	07:55:21
12	200315R2_12	1903736-10RE2@5X PDI-079SC-B-02-04-191...	16-Mar-20	08:42:54
13	200315R2_13	2000142-03@5X PDI-014SC-A-03-04-191003 ...	16-Mar-20	09:30:28

Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time

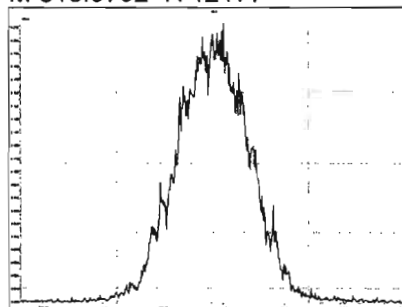
M 292.9824 R 12652



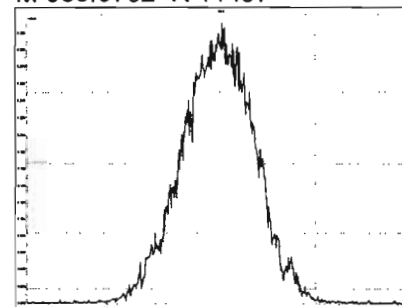
M 304.9824 R 12278



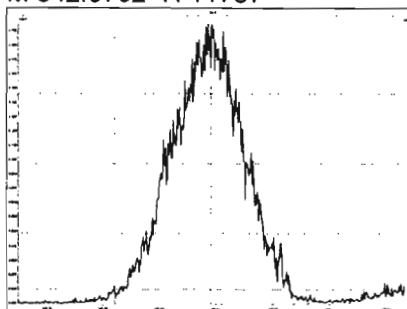
M 318.9792 R 12177



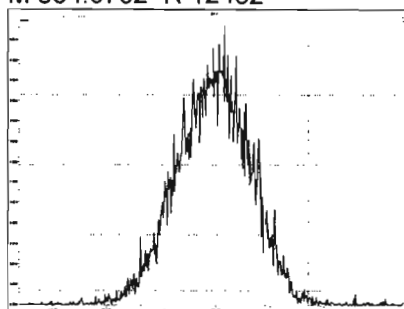
M 330.9792 R 11467



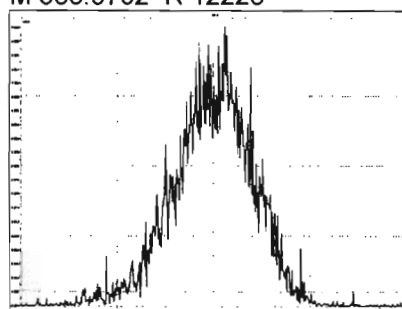
M 342.9792 R 11737



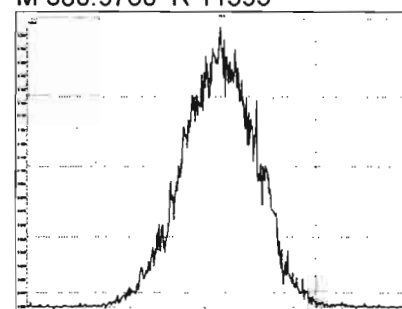
M 354.9792 R 12462



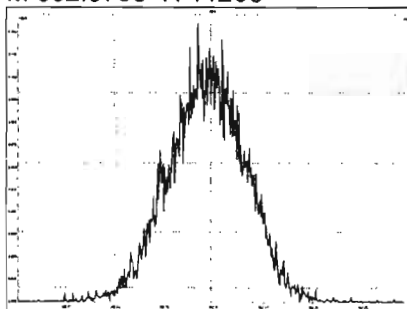
M 366.9792 R 12226



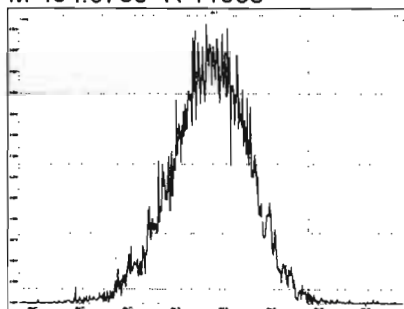
M 380.9760 R 11393



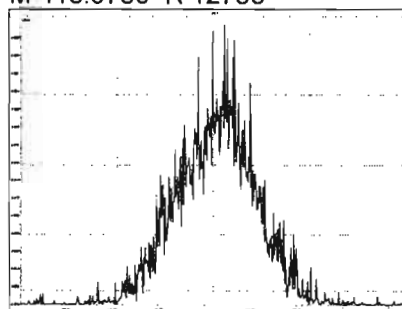
M 392.9760 R 11235



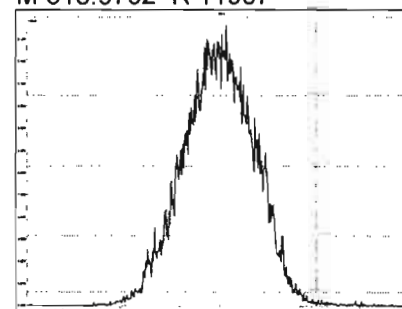
M 404.9760 R 11086



M 416.9760 R 12788

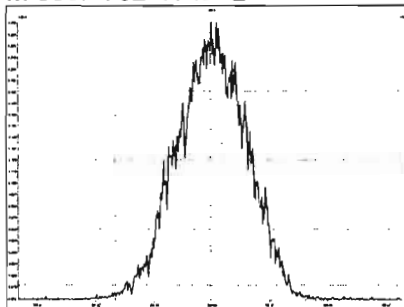


M 318.9792 R 11907

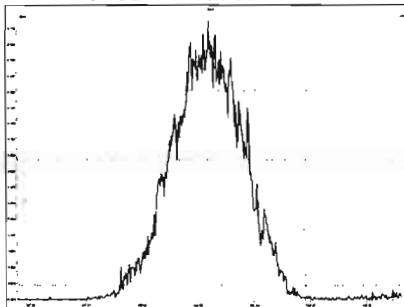


Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time

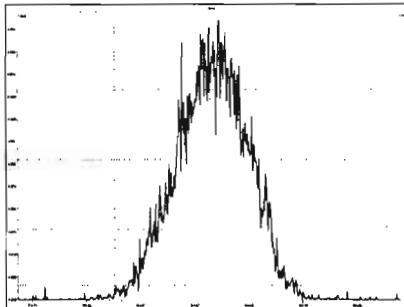
M 330.9792 R 12225



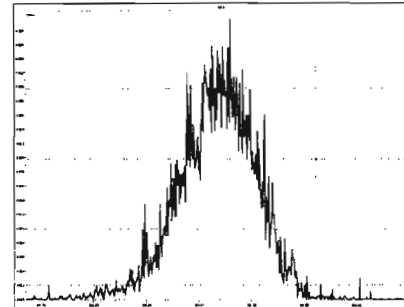
M 342.9792 R 11962



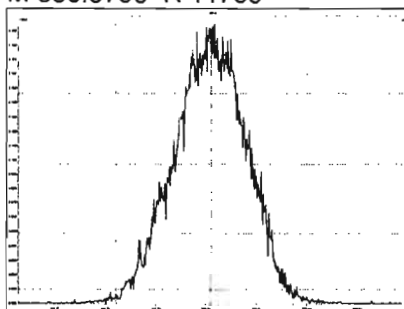
M 354.9792 R 13021



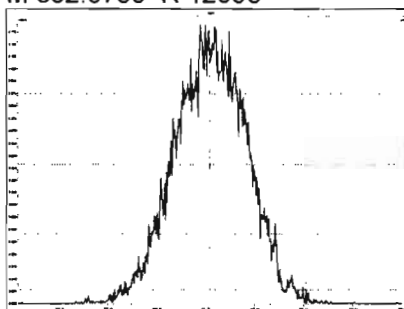
M 366.9792 R 12136



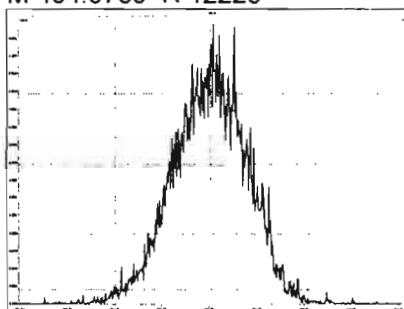
M 380.9760 R 11765



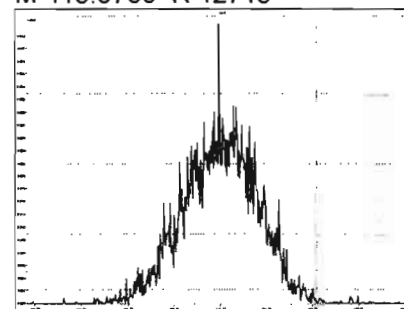
M 392.9760 R 12056



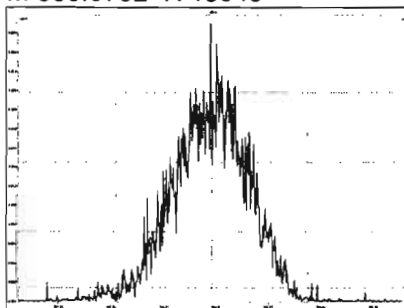
M 404.9760 R 12225



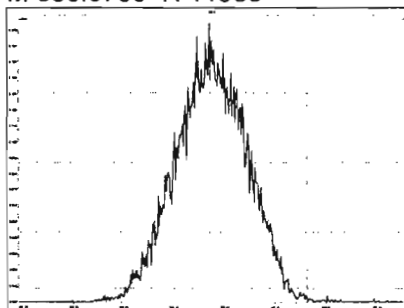
M 416.9760 R 12716



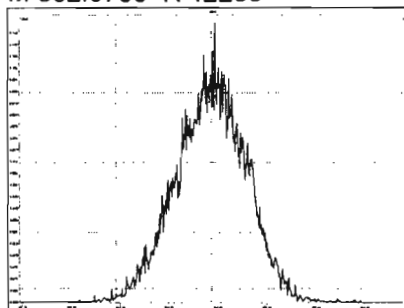
M 366.9792 R 13049



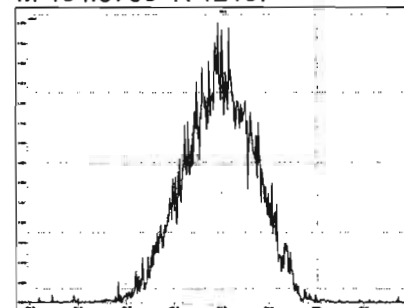
M 380.9760 R 11933



M 392.9760 R 12233

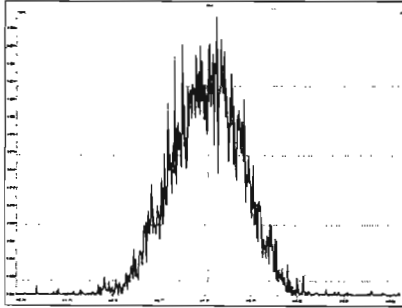


M 404.9760 R 12107

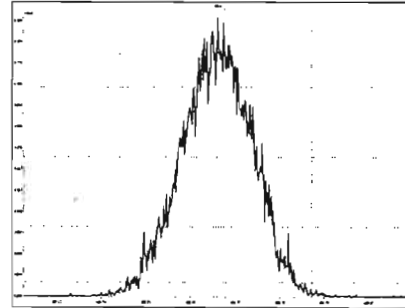


Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time

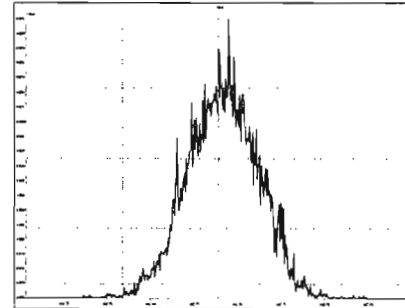
M 416.9760 R 12442



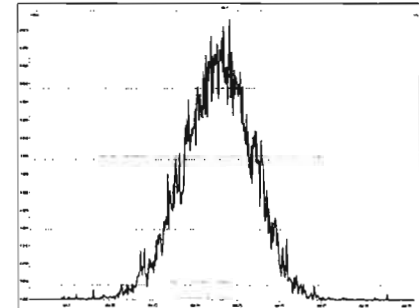
M 430.9728 R 12407



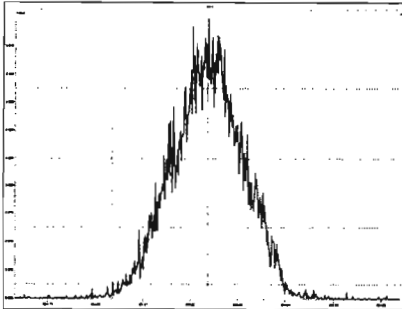
M 442.9728 R 12376



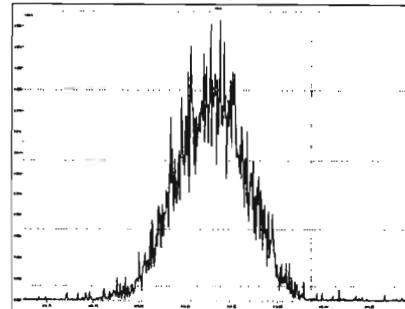
M 454.9728 R 11852



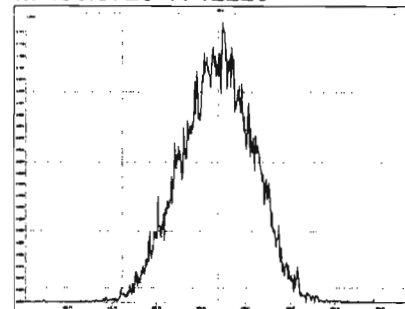
M 404.9760 R 12408



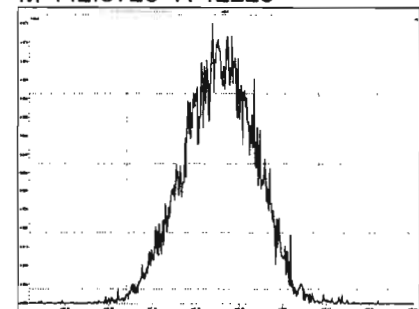
M 416.9760 R 12345



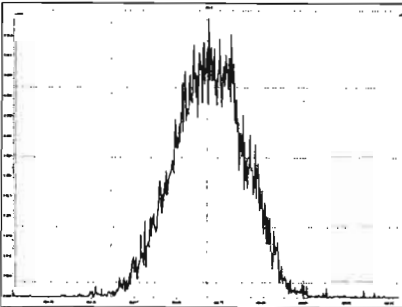
M 430.9728 R 12225



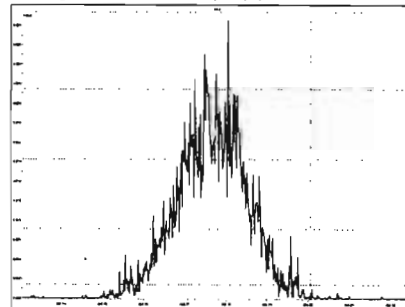
M 442.9728 R 12228



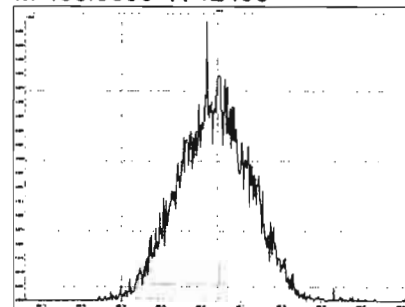
M 454.9728 R 12107



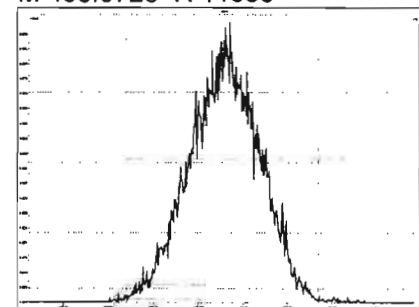
M 466.9728 R 13700



M 480.9696 R 12490

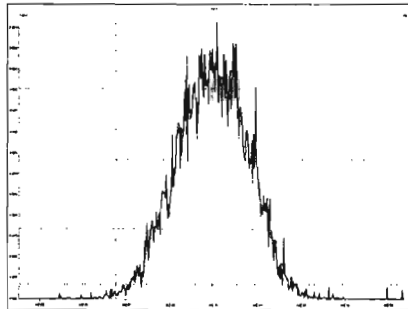


M 430.9728 R 11850

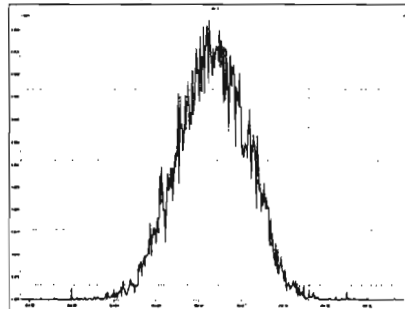


Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time

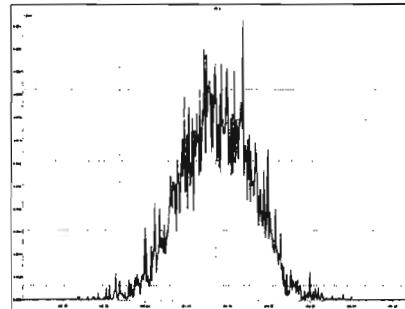
M 442.9728 R 12023



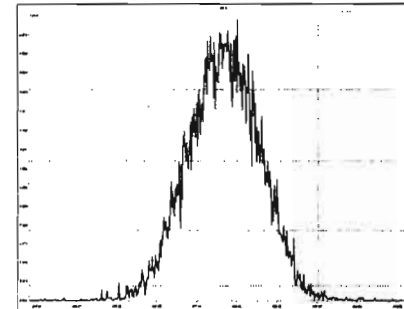
M 454.9728 R 12726



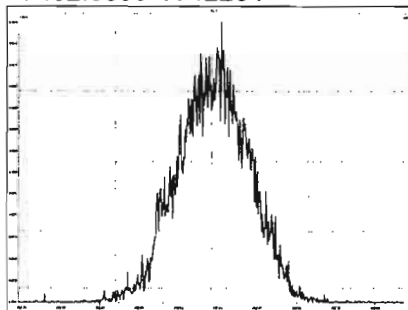
M 466.9728 R 13094



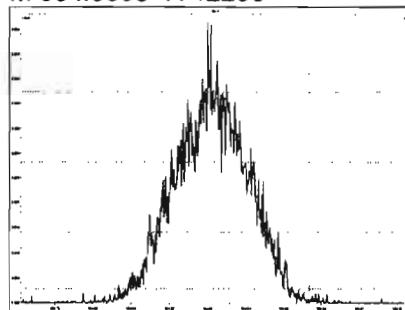
M 480.9696 R 12081



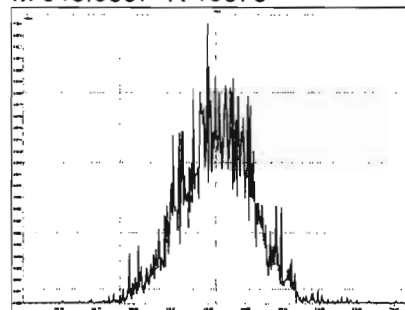
M 492.9696 R 12284



M 504.9696 R 12290



M 516.9697 R 13573



Dataset: U:\VG12.PRO\Results\200315R2\200315R2-CPSM.qld

Last Altered: Monday, March 16, 2020 07:55:24 Pacific Daylight Time

Printed: Monday, March 16, 2020 07:56:44 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.41
2	2 1,2,8,9-TCDD (Last)	26.80
3	3 1,2,4,7,9-PeCDD (First)	28.71
4	4 1,2,3,8,9-PeCDD (Last)	31.41
5	5 1,2,4,6,7,9-HxCDD (First)	32.96
6	6 1,2,3,7,8,9-HxCDD (Last)	34.81
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.24
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.28
9	9 1,3,6,8-TCDF (First)	19.39
10	10 1,2,8,9-TCDF (Last)	26.95
11	11 1,3,4,6,8-PeCDF (First)	26.92
12	12 1,2,3,8,9-PeCDF (Last)	31.67
13	13 1,2,3,4,6,8-HxCDF (First)	32.39
14	14 1,2,3,7,8,9-HxCDF (Last)	35.15
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.87
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.93

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-CPSM.qld

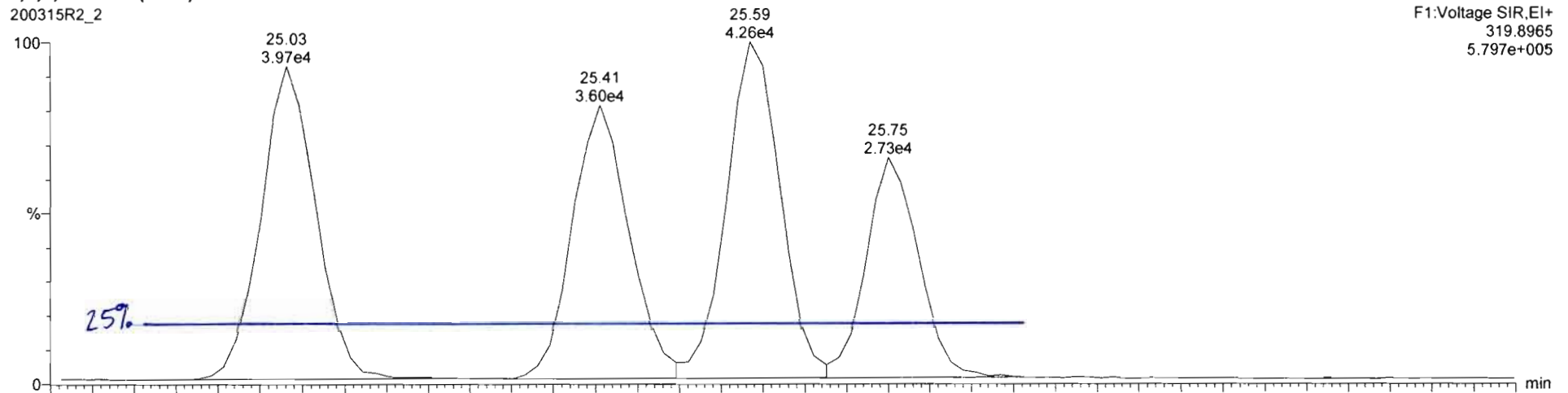
Last Altered: Monday, March 16, 2020 07:55:24 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:56:44 Pacific Daylight Time

GRB 03/16/2020

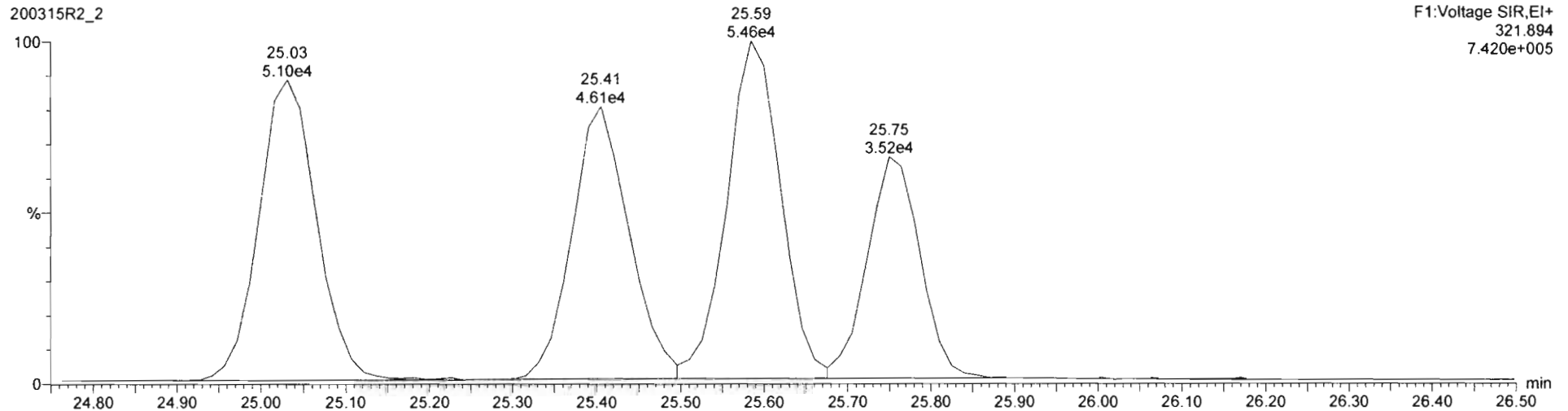
Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200315R2_2



200315R2_2



Dataset: Untitled

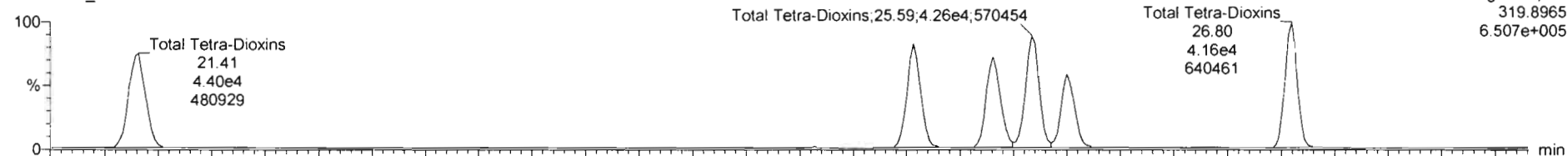
Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

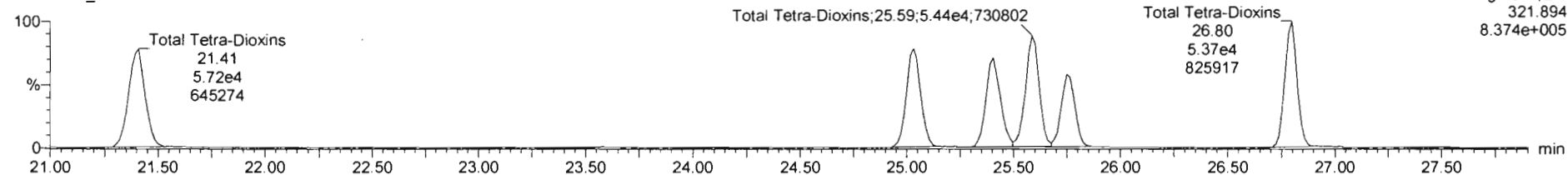
Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200315R2_2

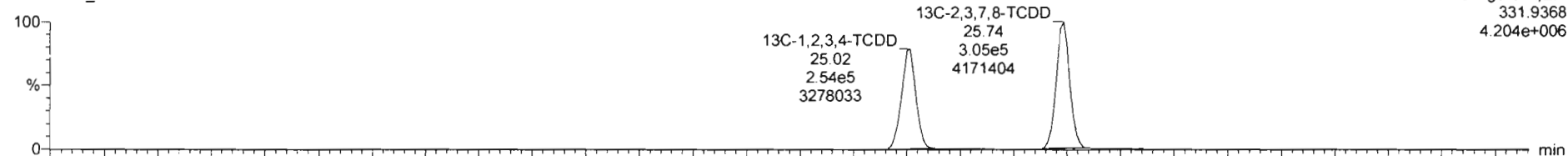


200315R2_2

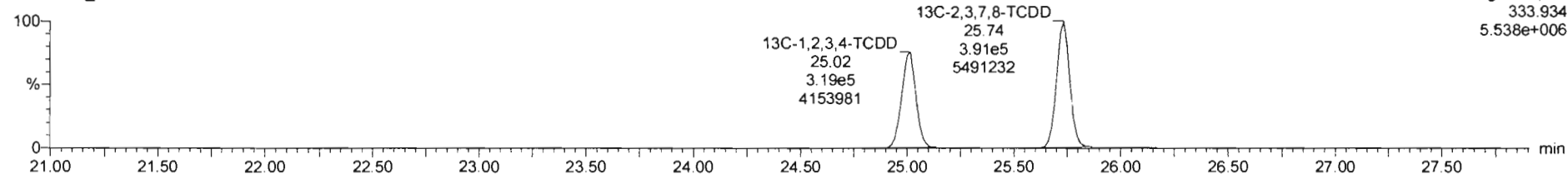


13C-2,3,7,8-TCDD

200315R2_2



200315R2_2



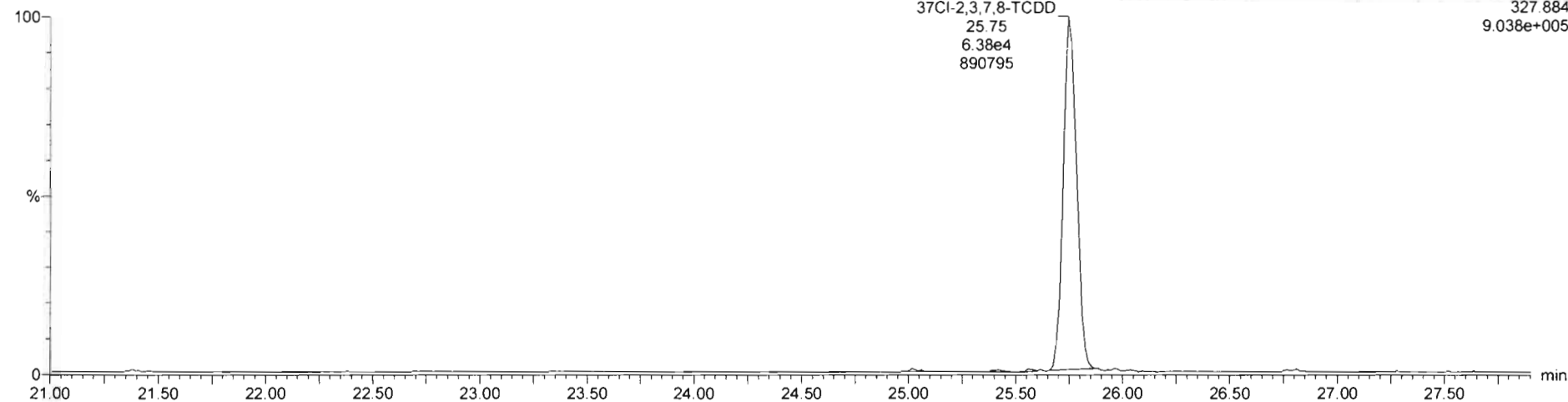
Dataset: Untitled

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Sample Name: 200315R2_2; Date: 16-Mar-2020; Time: 00:47:18; ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

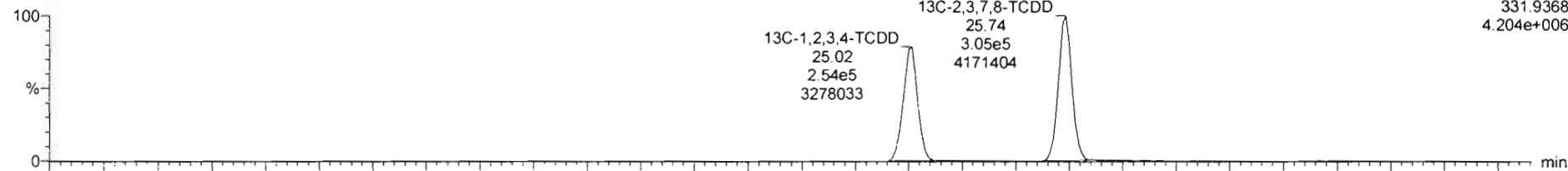
37Cl-2,3,7,8-TCDD

200315R2_2

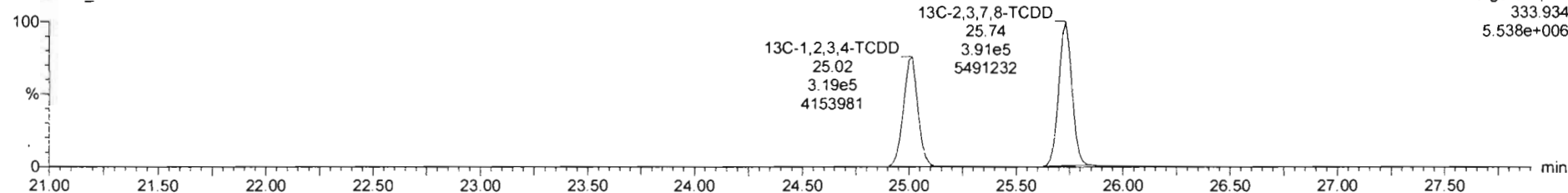


13C-1,2,3,4-TCDD

200315R2_2



200315R2_2



Dataset: Untitled

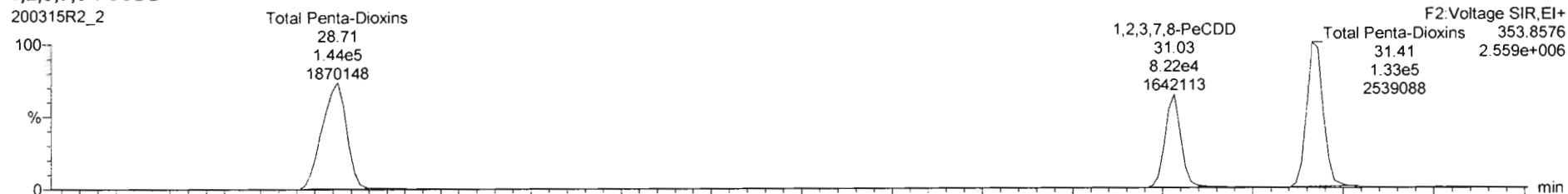
Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Last Altered:
Printed:
Mr

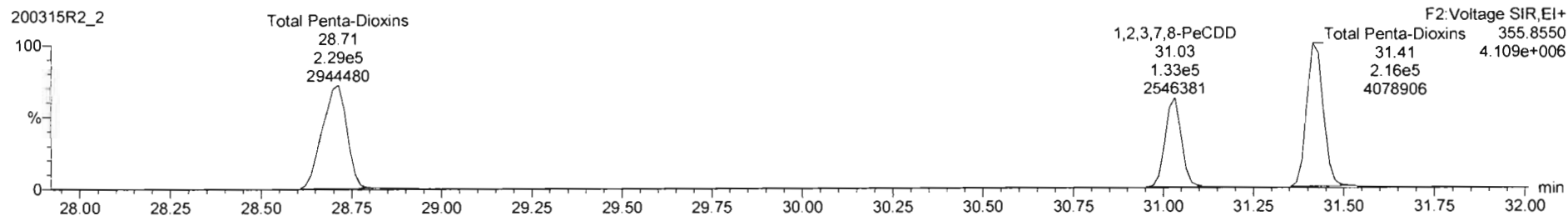
37D:\ST2 Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613-CS3 19L2305

1,2,3,7,8-PeCDD

200315R2_2

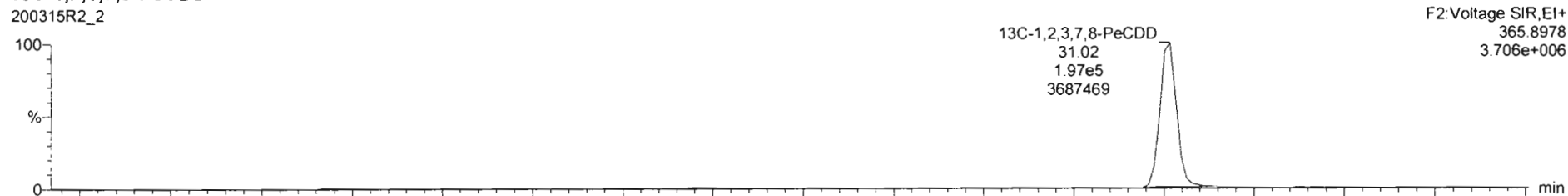


200315R2_2

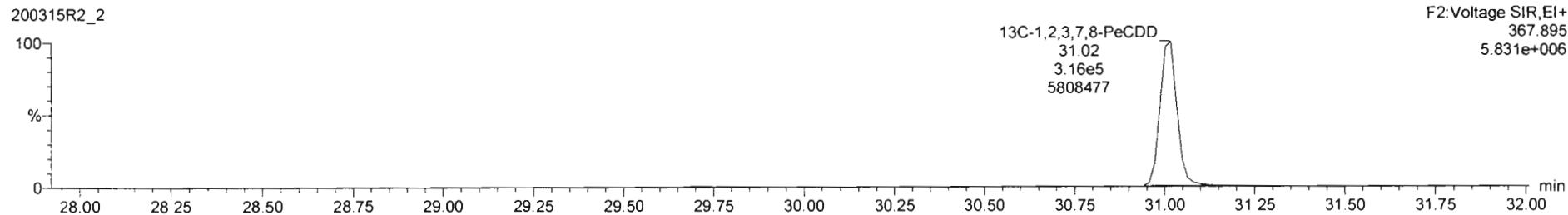


13C-1,2,3,7,8-PeCDD

200315R2_2



200315R2_2



Dataset: Untitled

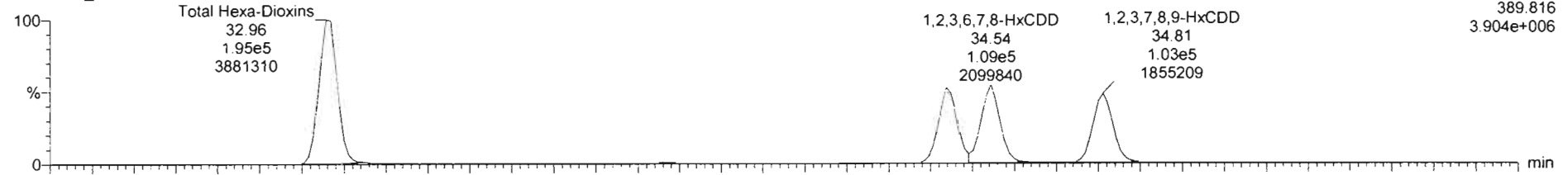
Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Last Altered: Monday, March 16, 2020 07:54:46 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

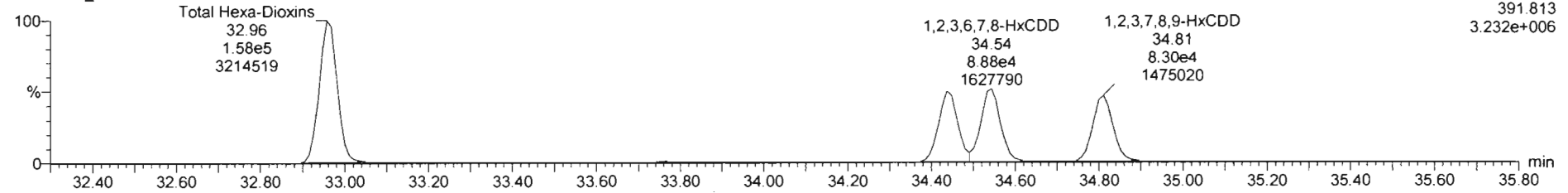
Sample Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200315R2_2

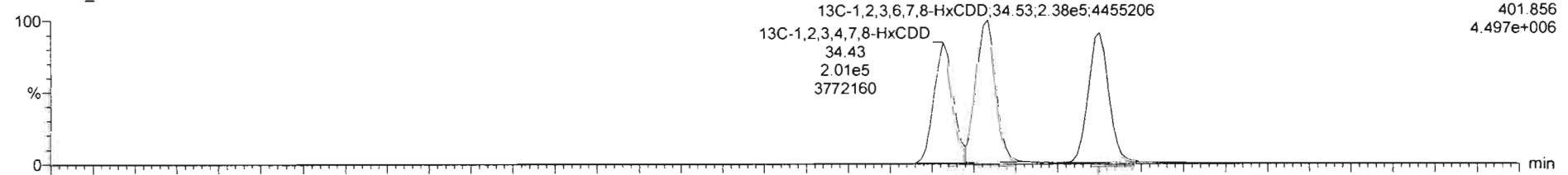


200315R2_2

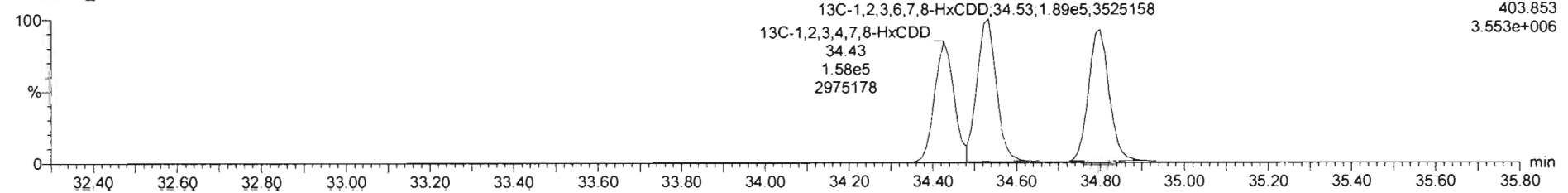


13C-1,2,3,4,7,8-HxCDD

200315R2_2



200315R2_2



Dataset: Untitled

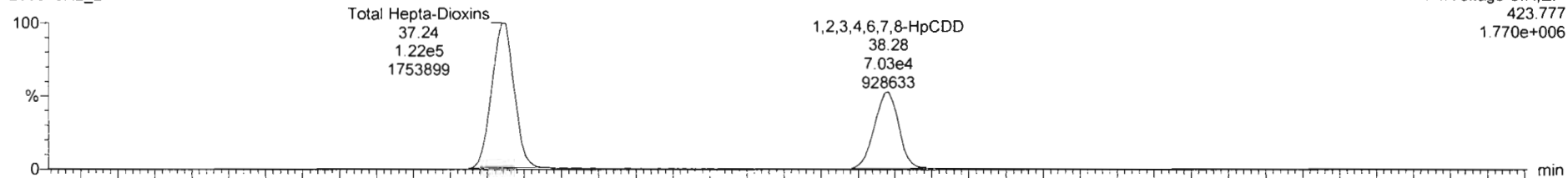
Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Last Altered:
Printed:

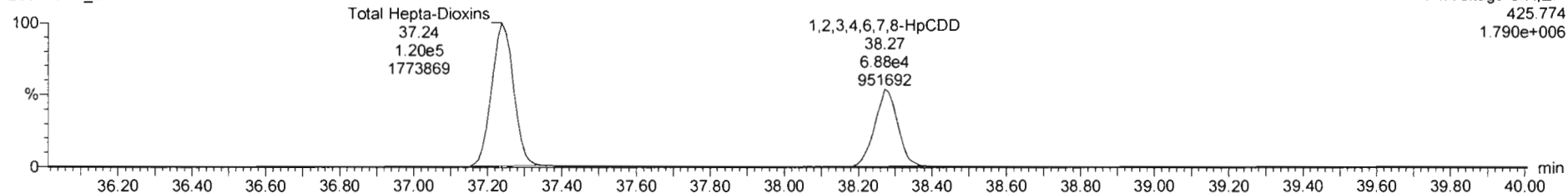
ID: ST200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305, 16-Mar-2020, Time: 00:47:13, ID: ST200315R2_2

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

200315R2_2

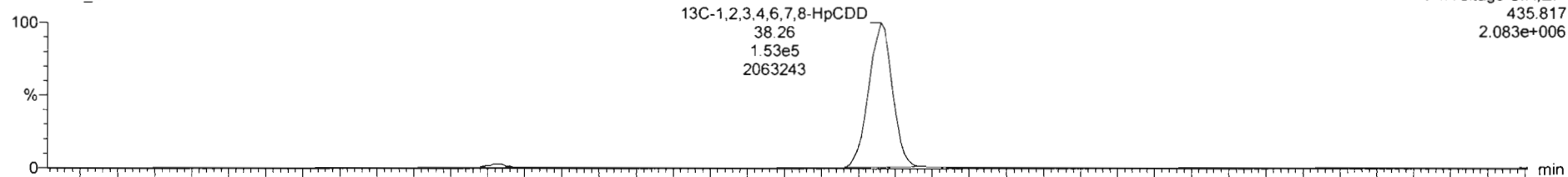


200315R2_2

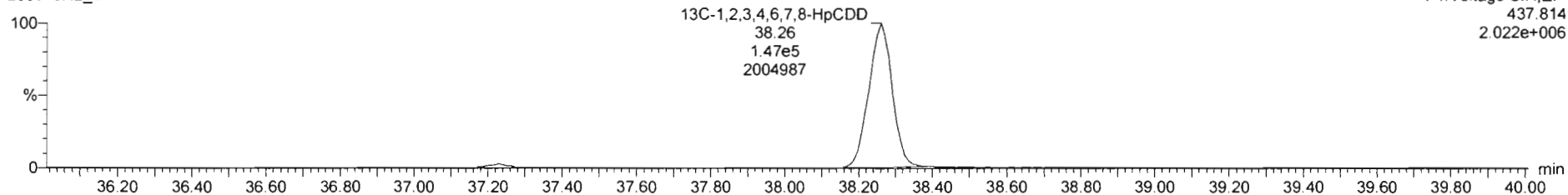


13C-1,2,3,4,6,7,8-HpCDD

200315R2_2



200315R2_2

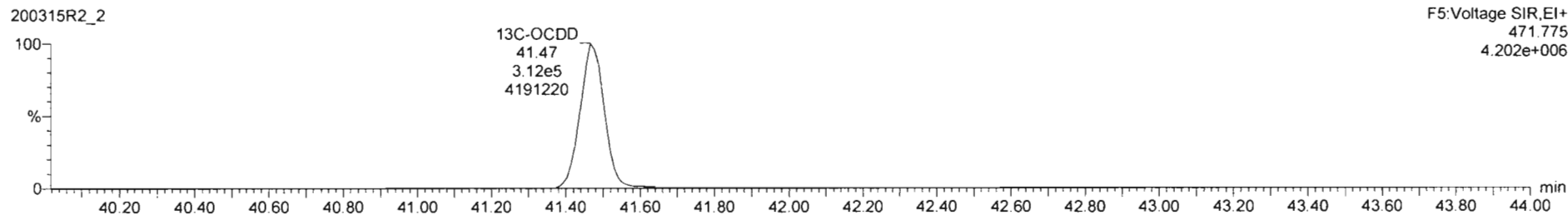
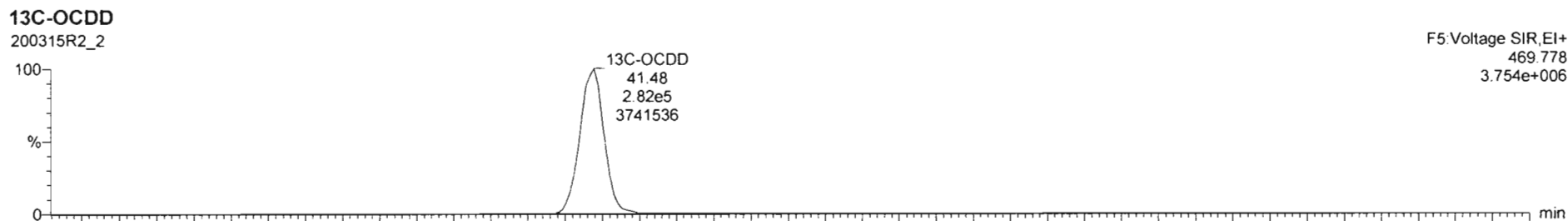
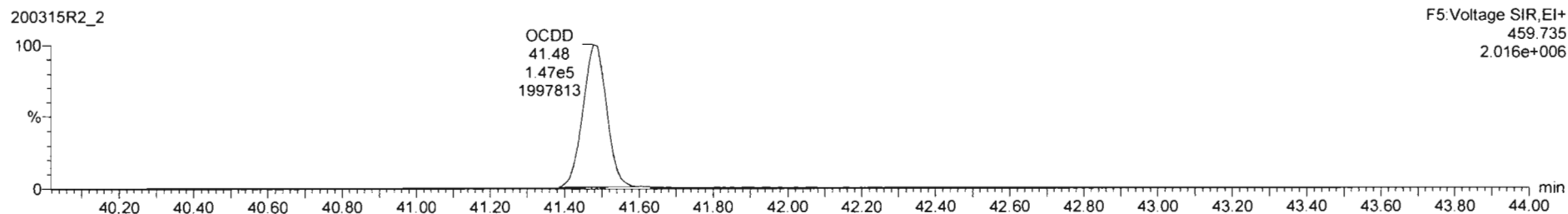
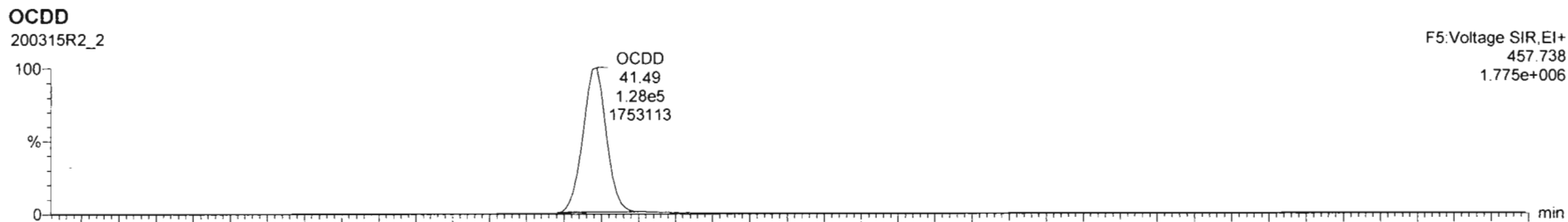


Dataset: Untitled

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

LRST AREA: 1.775e+006
Area: 1.775e+006

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



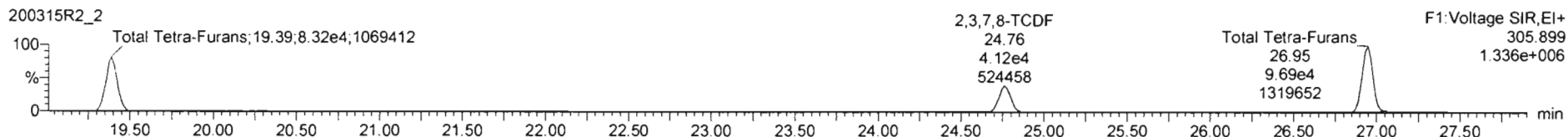
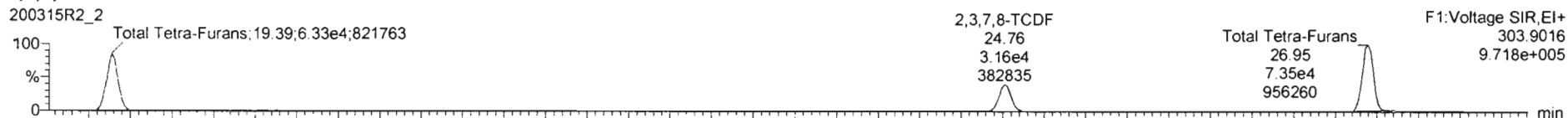
Dataset: Untitled

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

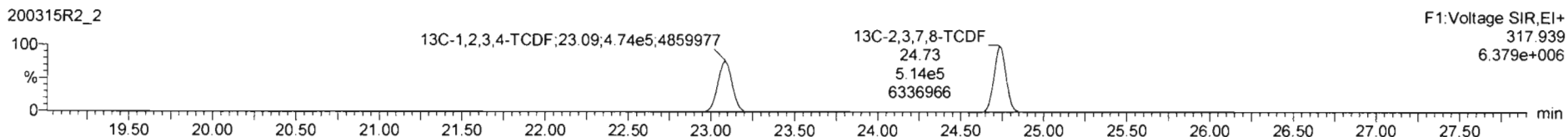
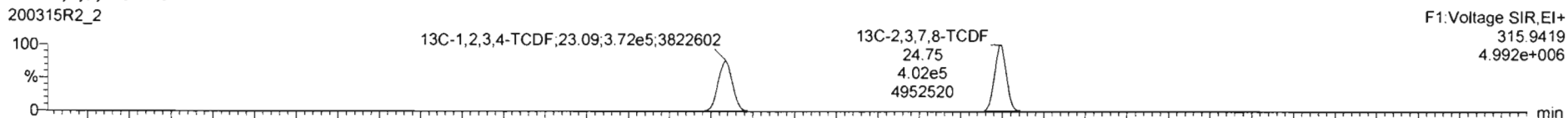
Last Altered:
Printed:

Sample Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613-CS3 19L2305

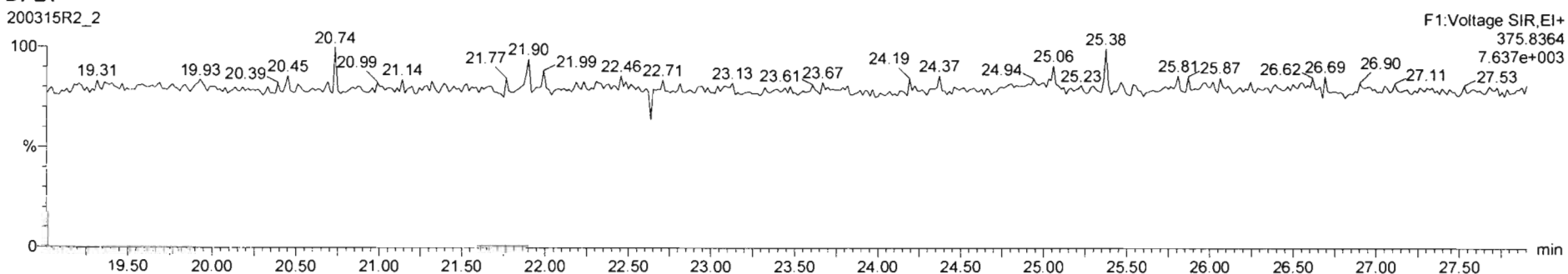
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

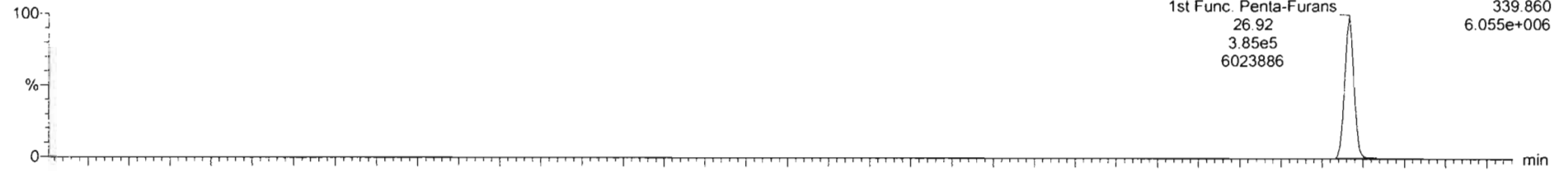
Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time

Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

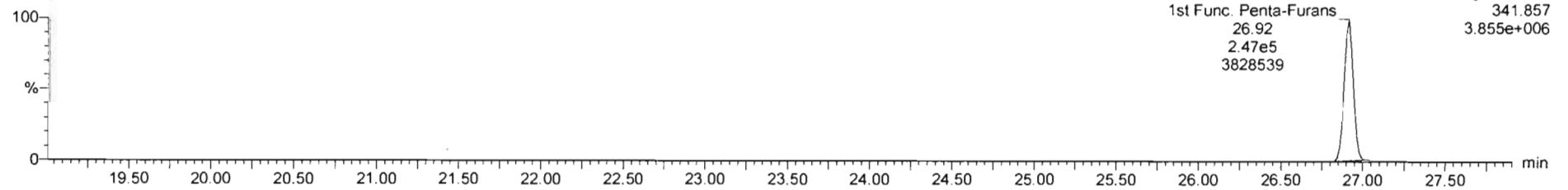
ID: ST200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200315R2_2

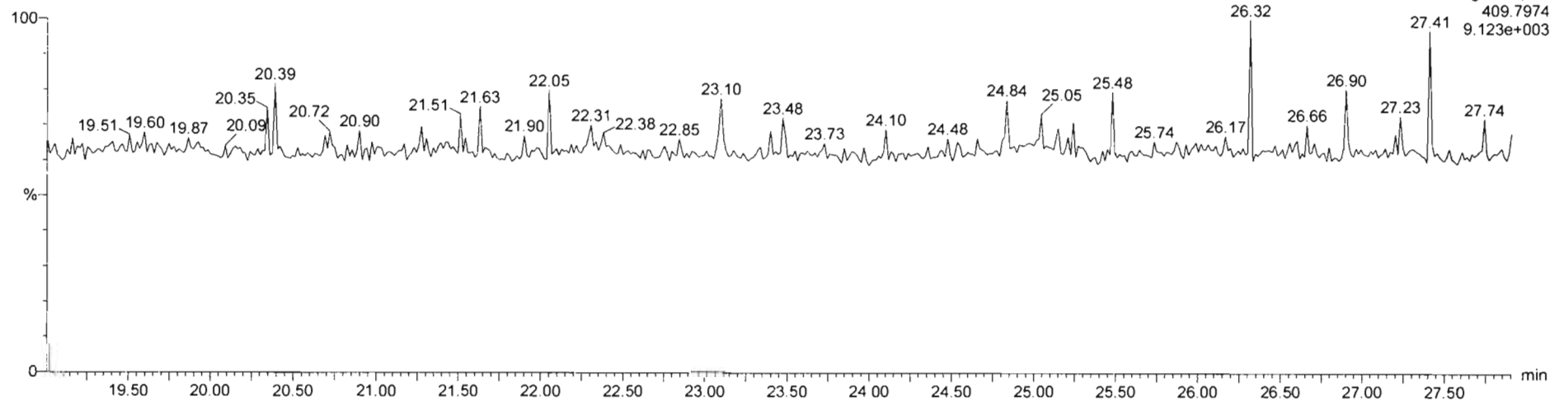


200315R2_2



DPE6

200315R2_2



Dataset: Untitled

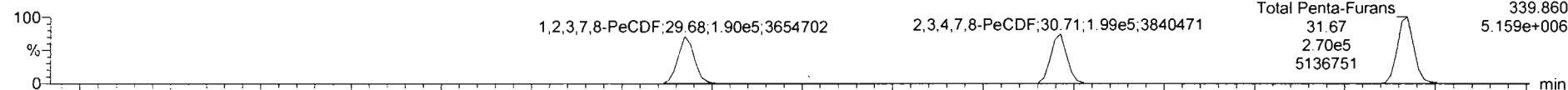
Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time

Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

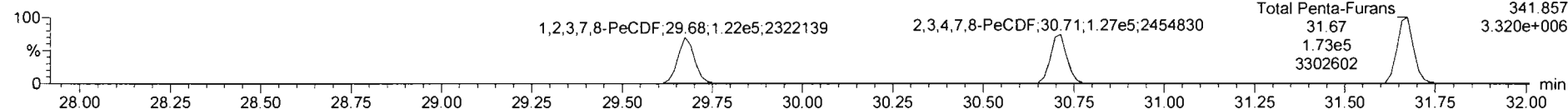
ID: ST200315R2_2, Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305, Time: 00:17:11, ID: ST200315R2_2, Name: 200315R2_2

1,2,3,7,8-PeCDF

200315R2_2

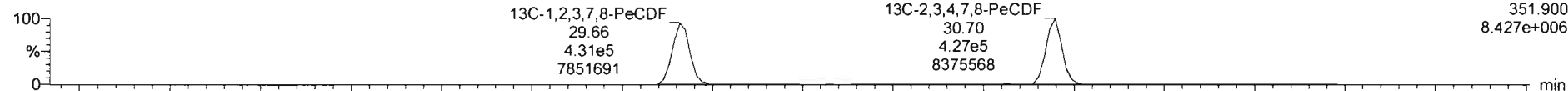


200315R2_2

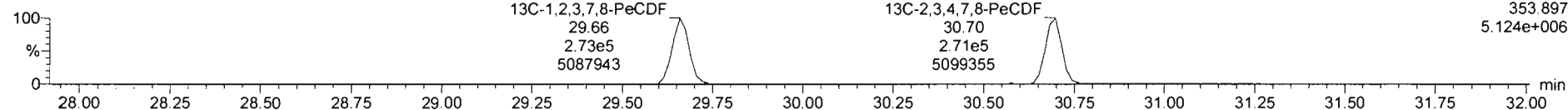


13C-1,2,3,7,8-PeCDF

200315R2_2

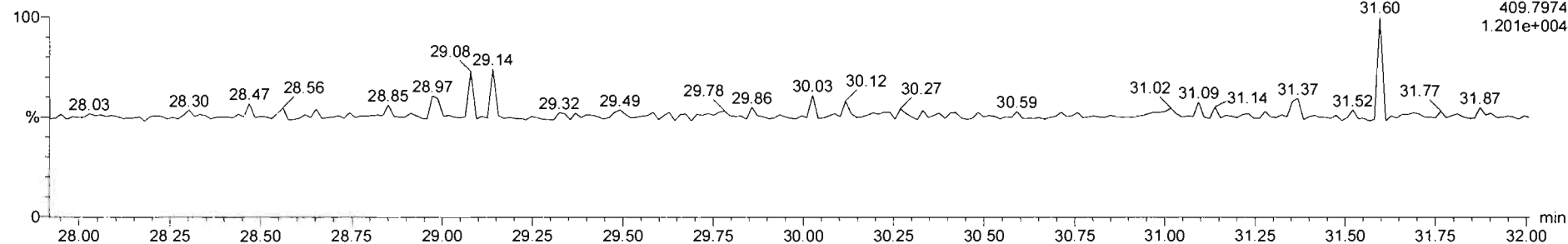


200315R2_2



DPE2

200315R2_2



Dataset: Untitled

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time

Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

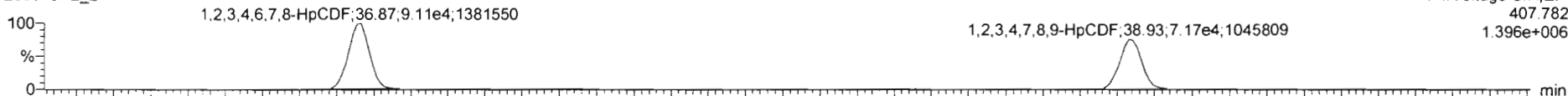
Last Altered: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Sample ID: ST200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305

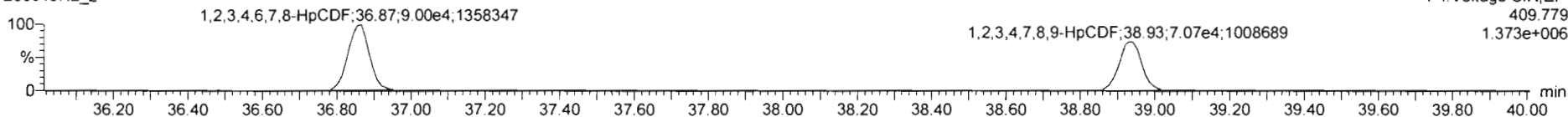
1,2,3,4,6,7,8-HpCDF

200315R2_2



F4: Voltage SIR, EI+
407.782
1.396e+006

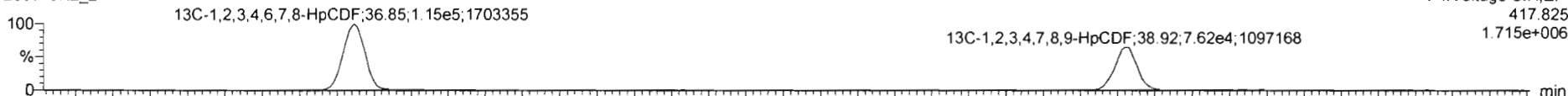
200315R2_2



F4: Voltage SIR, EI+
409.779
1.373e+006

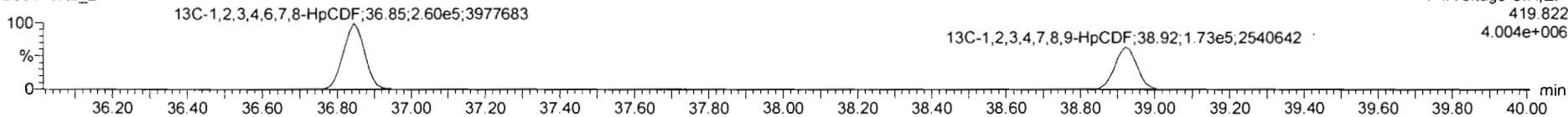
13C-1,2,3,4,6,7,8-HpCDF

200315R2_2



F4: Voltage SIR, EI+
417.825
1.715e+006

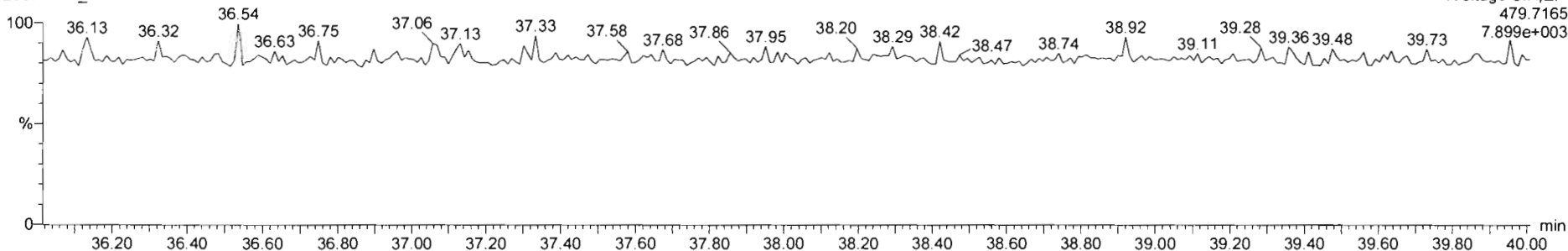
200315R2_2



F4: Voltage SIR, EI+
419.822
4.004e+006

DPE4

200315R2_2



F4: Voltage SIR, EI+
479.7165
7.899e+003

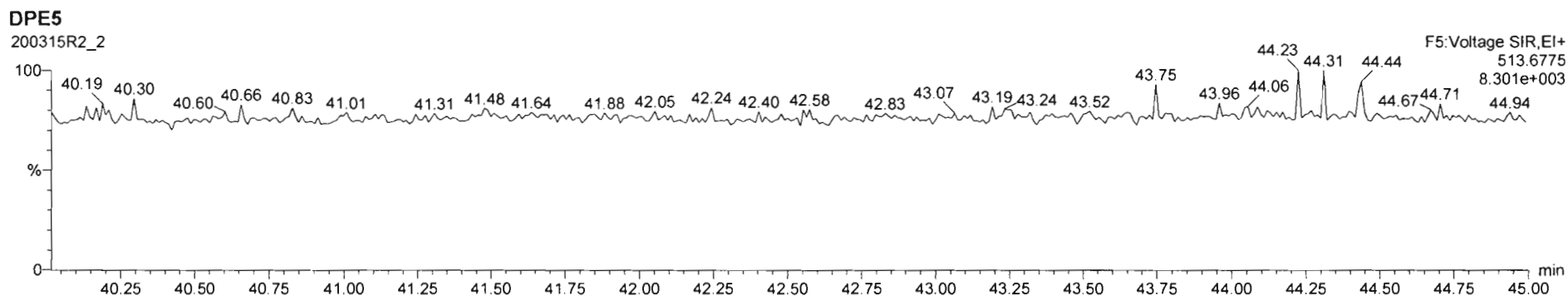
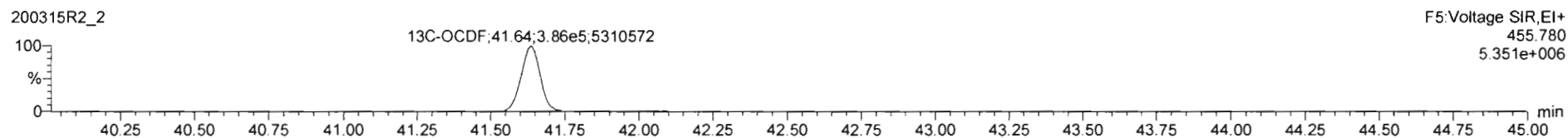
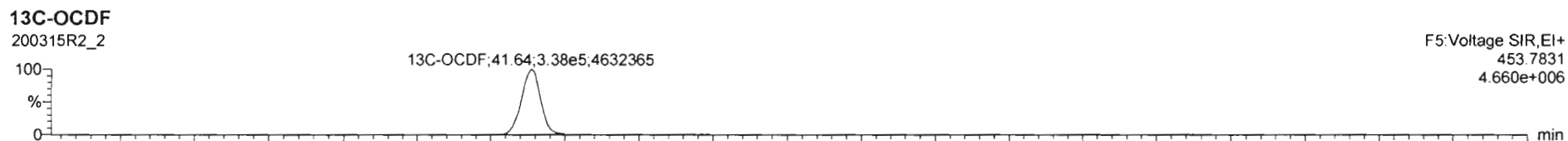
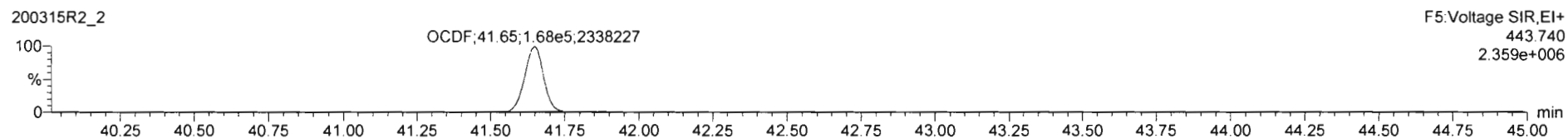
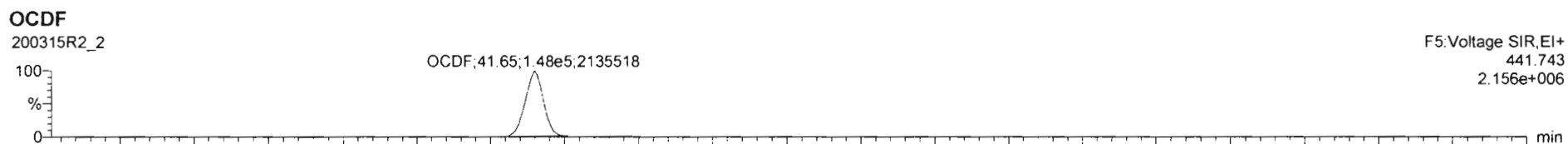
Dataset: Untitled

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time

Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

LSM: 1000000
PM: 1000000

ST: 200315R2_2; Date: 16-Mar-2020; Time: 00:47:18; ID: ST200315R2_1 1613 CS3 19L2305; Description: 1613 CS3 19L2305

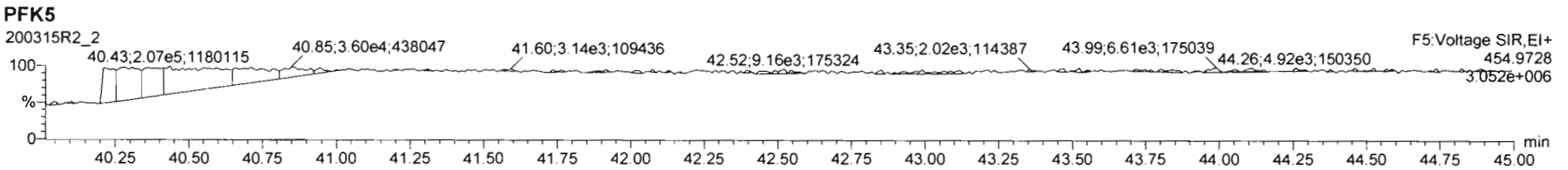
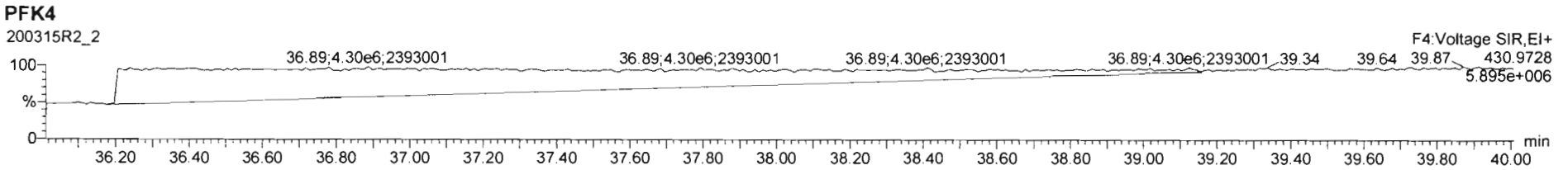
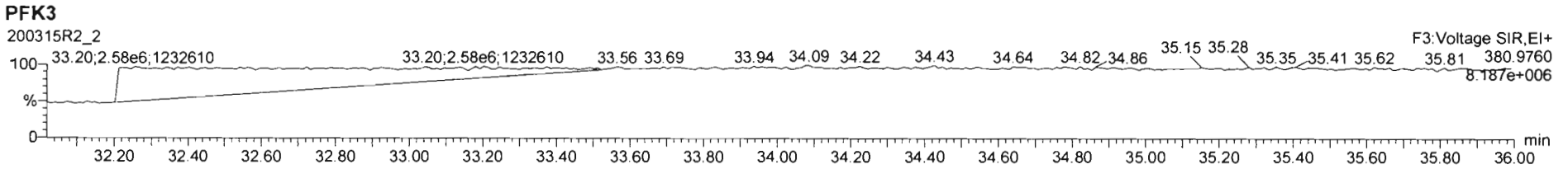
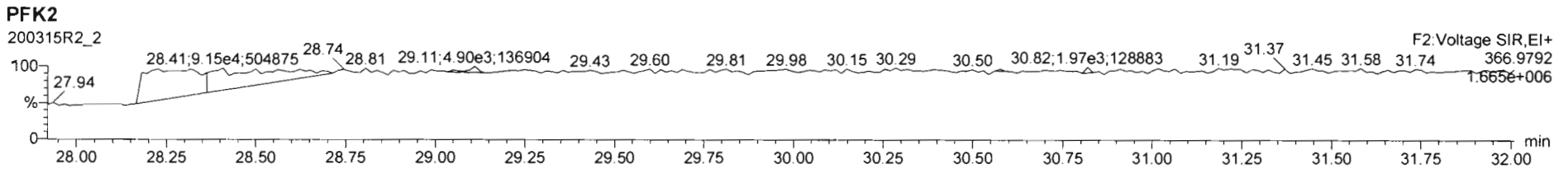
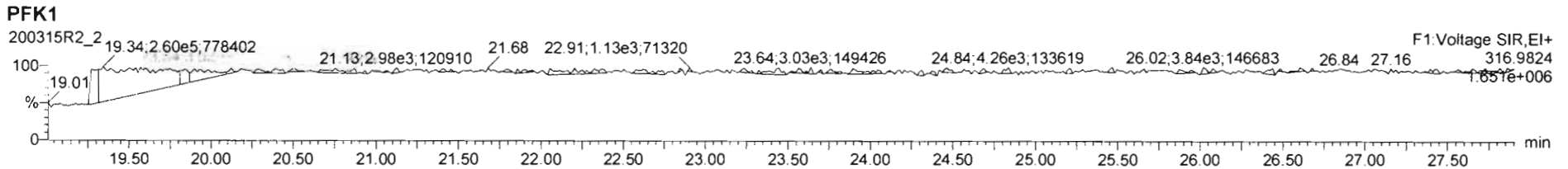


Dataset: Untitled

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Last Altered: 07:41:17
Printed: 07:54:46

SPD: SPD Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613-CS3-19L2305, Plan: 2020, Time: 07:47:18, ID: ST200315R2_200315R2



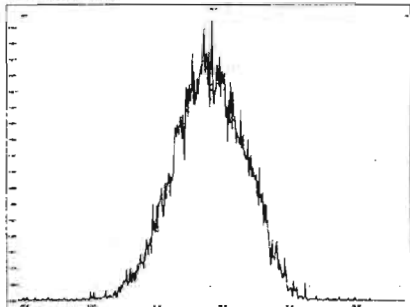
Resolution Check Report

MassLynx 4.1 SCN815

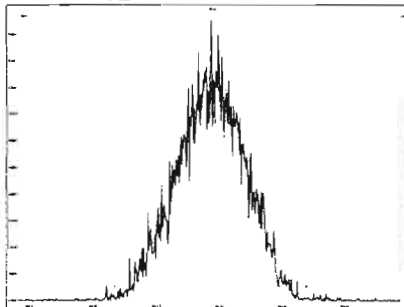
ⓐ INST. VENTED & STOPPED READING
MASSES DURING END RES CHECK.

Printed: Monday, March 16, 2020 10:26:52 Pacific Daylight Time

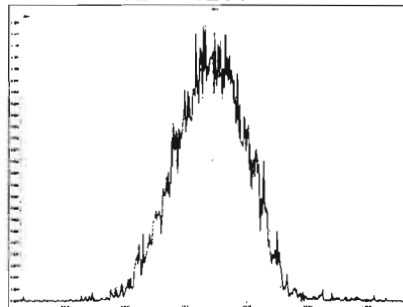
M 292.9824 R 11971



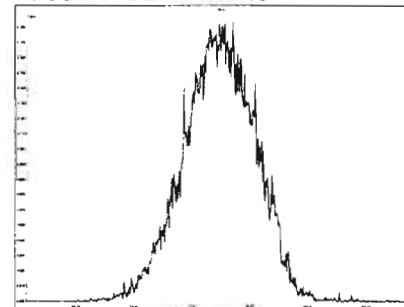
M 304.9824 R 12598



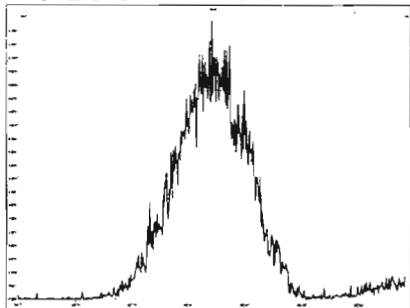
M 318.9792 R 12306



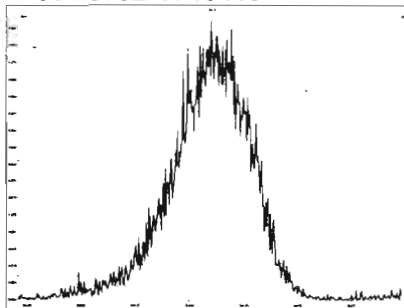
M 330.9792 R 11743



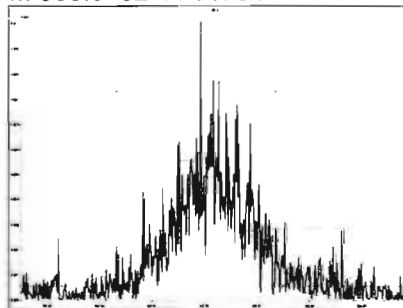
M 342.9792 R 12504



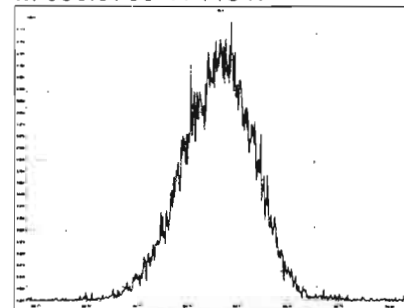
M 354.9792 R 10416



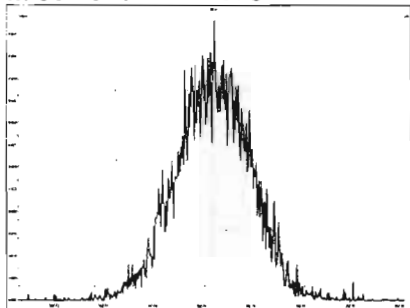
M 366.9792 R 14704



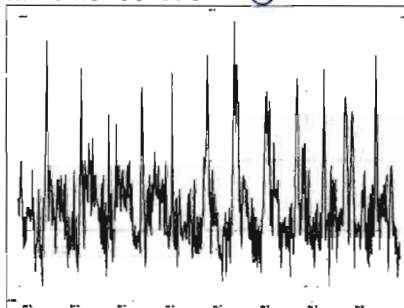
M 380.9760 R 11547



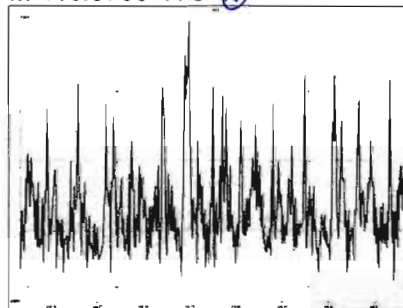
M 392.9760 R 11978



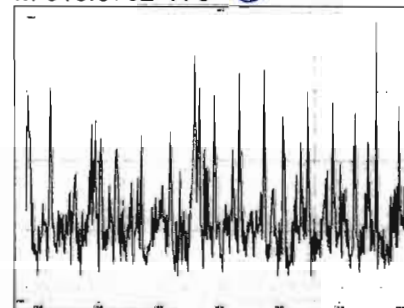
M 404.9760 R 0 ⓐ



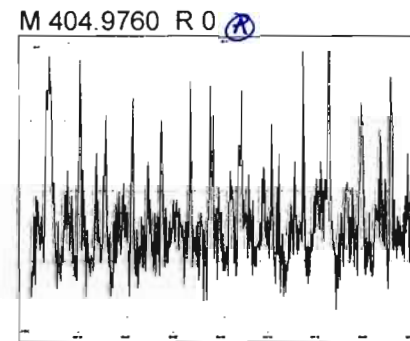
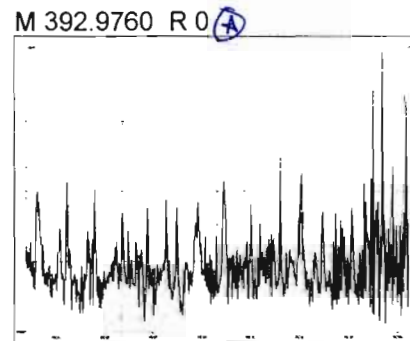
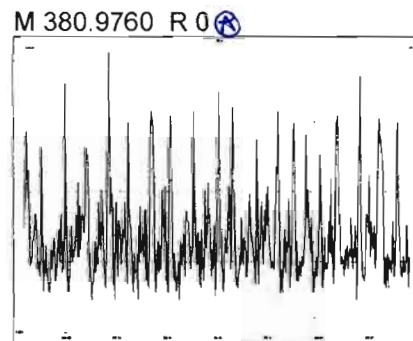
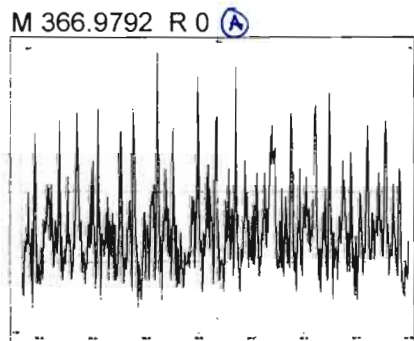
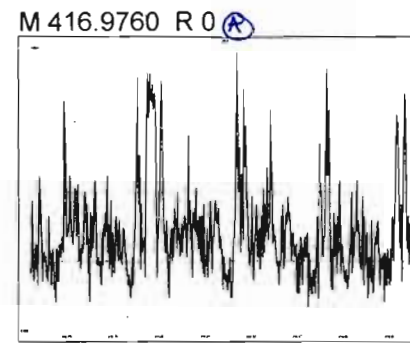
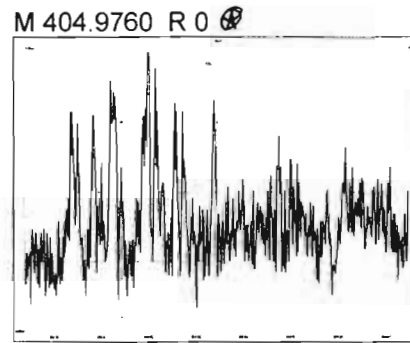
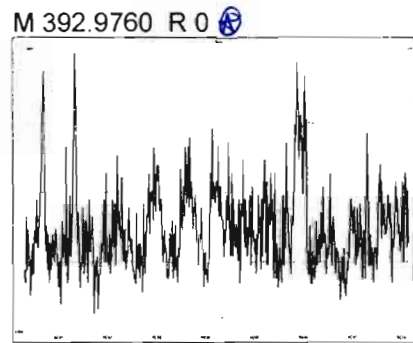
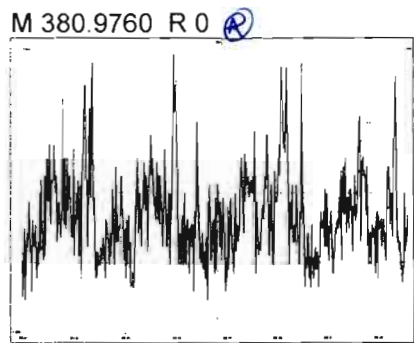
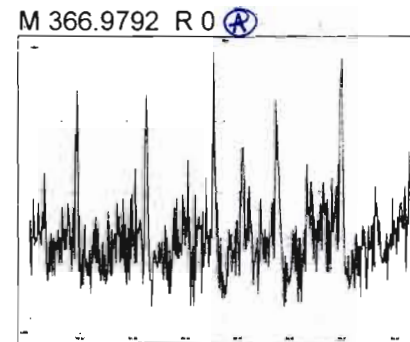
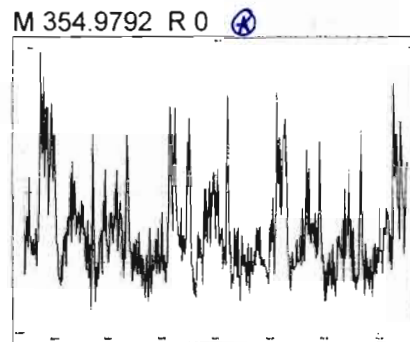
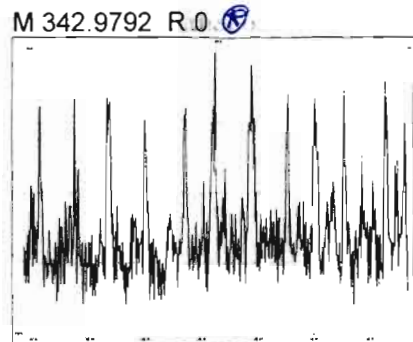
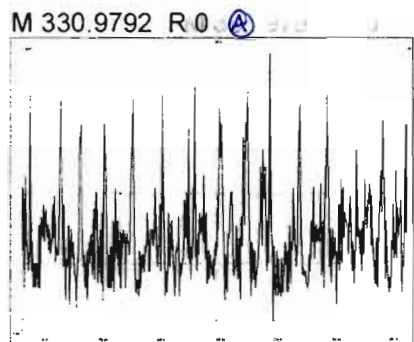
M 416.9760 R 0 ⓐ



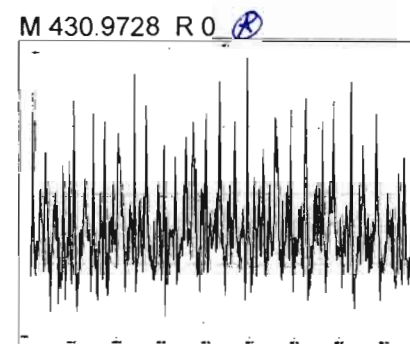
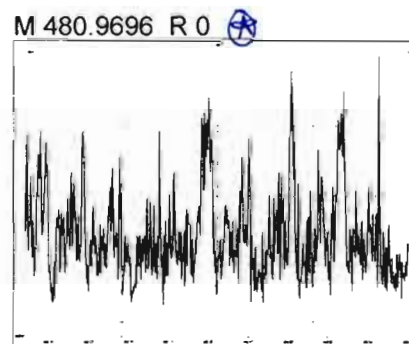
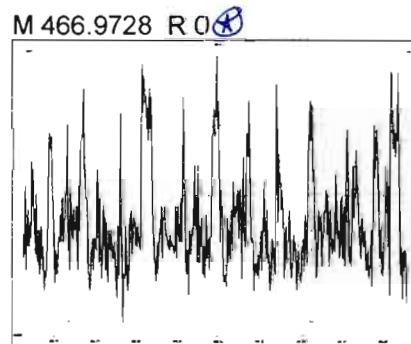
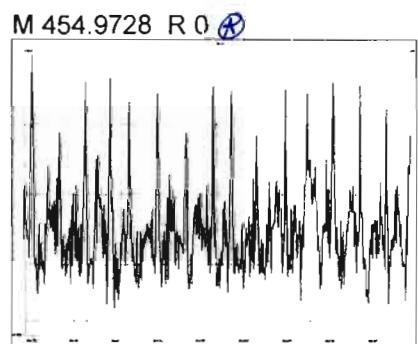
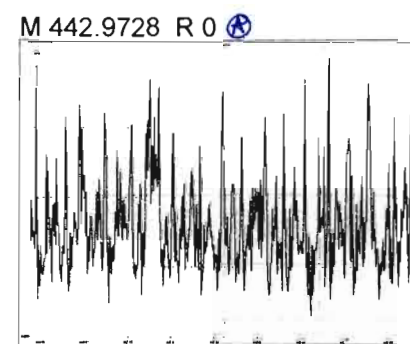
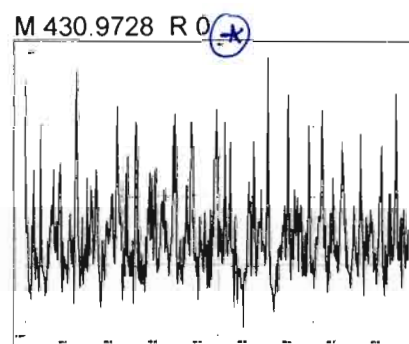
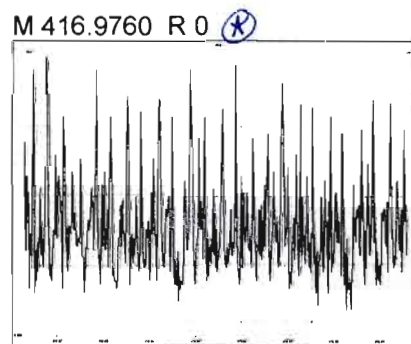
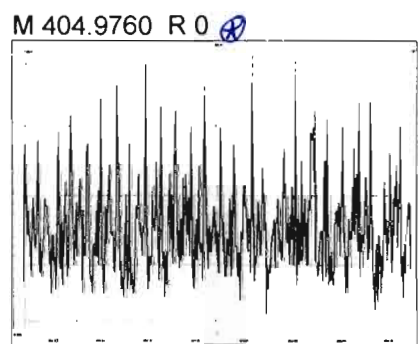
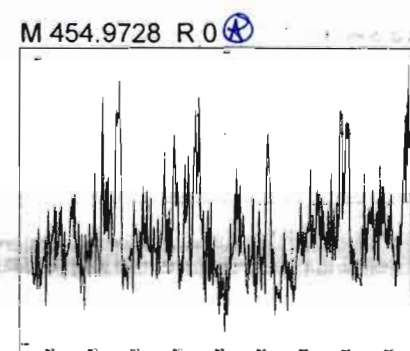
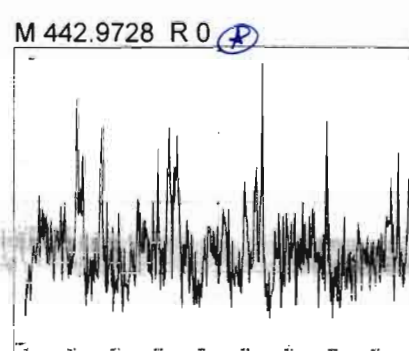
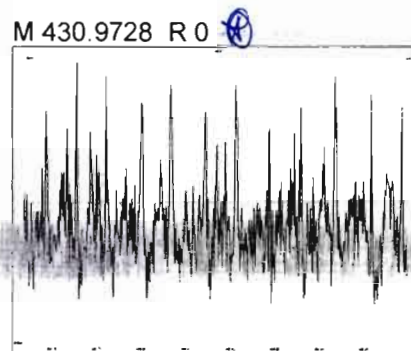
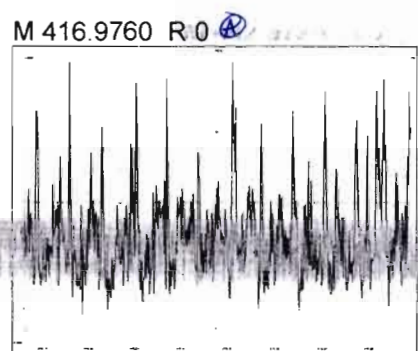
M 318.9792 R 0 ⓑ



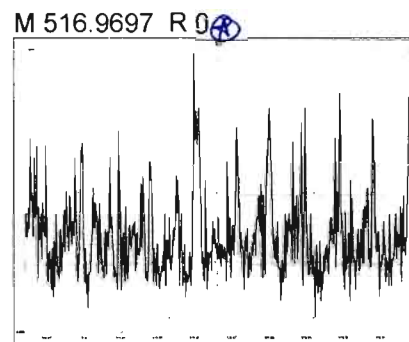
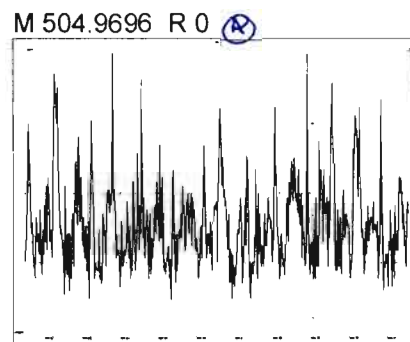
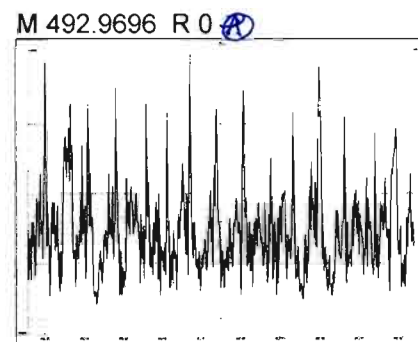
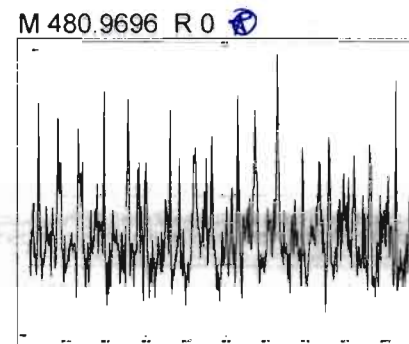
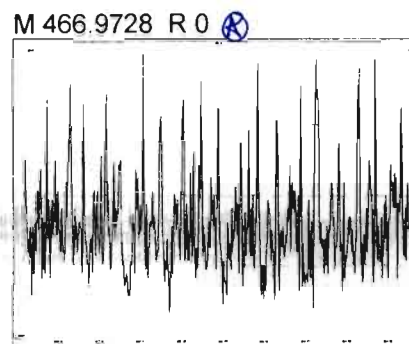
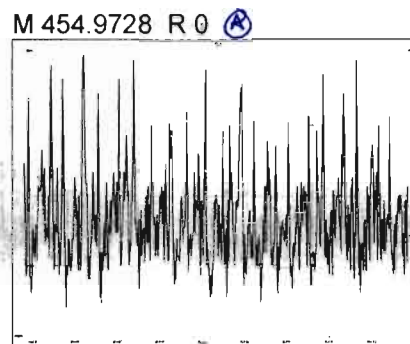
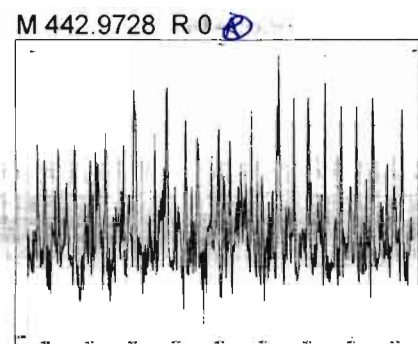
Printed: Monday, March 16, 2020 10:26:52 Pacific Daylight Time



Printed: Monday, March 16, 2020 10:26:52 Pacific Daylight Time



Printed: Monday, March 16, 2020 10:26:52 Pacific Daylight Time



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200320D17

Reviewed By: C7 03/23/2020
Initials & Date

End Calibration ID: ST200320D1-2

	<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 checked="" type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct ICAL referenced?	<u>DB</u>	<u>DB</u>
<u>Run Log:</u>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	(Y)	N
- Bottle position verified?	<u>DB</u>	

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GC Break <20%		<input type="checkbox"/> NA
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:

Dataset: U:\VG7.PRO\Results\200320D1\200320D1_2.qld

Last Altered: Friday, March 20, 2020 14:12:06 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:13:08 Pacific Daylight Time

DB 3/20/20 CT03/23/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_2, Date: 20-Mar-2020, Time: 11:21:59, ID: ST200320D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1613 8290

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC	
1	1 2,3,7,8-TCDF	8.08e3	0.78	NO	0.982	1.000	17.119	17.12	1.000	1.001	8.5536	85.5	<i>84-120</i>	0.260	<i>80-120</i> 8.55
2	2 13C-2,3,7,8-TCDF	9.62e4	0.79	NO	1.08	1.000	17.095	17.10	1.133	1.134	105.70	106	<i>71-140</i>	0.528	<i>70-130</i>
3	3 13C-1,2,3,4-TCDF	8.40e4	0.77	NO	1.00	1.000	15.080	15.08	1.000	1.000	100.00	100		0.572	

Dataset: Untitled

Last Altered: Sunday, March 22, 2020 16:53:34 Pacific Daylight Time

Printed: Sunday, March 22, 2020 16:53:49 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

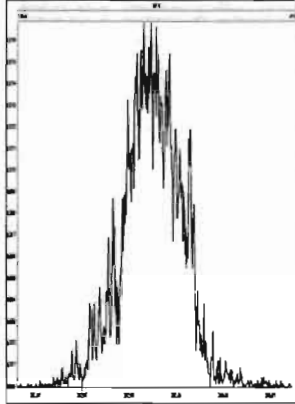
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200320D1_1	CP200320D1-1 DB-225 CPSM	20-Mar-20	10:51:50
2	200320D1_2	ST200320D1-1 1613 CS3 19L2305	20-Mar-20	11:21:59
3	200320D1_3	SOLVENT BLANK	20-Mar-20	11:53:41
4	200320D1_4	2000417-03RE2 Dewatered Sludge 11.27	20-Mar-20	12:25:28
5	200320D1_5	B0B0031-DUP1RE1	20-Mar-20	12:57:07
6	200320D1_6	1903736-10RE4 PDI-079SC-B-02-04-191014 ...	20-Mar-20	13:28:49
7	200320D1_7	2000144-01RE1 PDI-052SC-A-06-07-191015 ...	20-Mar-20	14:00:33
8	200320D1_8	2000144-02RE1 PDI-055SC-A-02-03-191015 ...	20-Mar-20	14:32:15
9	200320D1_9	2000144-03RE1 PDI-055SC-A-03-04-191015 ...	20-Mar-20	15:03:58
10	200320D1_10	2000144-07RE1 PDI-079SC-A-08-09-191014 ...	20-Mar-20	15:35:39
11	200320D1_11	2000144-09RE1 PDI-081SC-A-08-09-191002 ...	20-Mar-20	16:07:21
12	200320D1_12	2000144-10RE1 PDI-081SC-A-09-10-191002 ...	20-Mar-20	16:39:02
13	200320D1_13	2000144-11RE1 PDI-082SC-A-04-05-191002 ...	20-Mar-20	17:10:45
14	200320D1_14	2000144-12RE1 PDI-082SC-A-05-06-191002 ...	20-Mar-20	17:42:26
15	200320D1_15	2000144-13RE1 PDI-084SC-A-01-02-191002 ...	20-Mar-20	18:14:08
16	200320D1_16	2000144-14RE1 PDI-084SC-A-02-03-191002 ...	20-Mar-20	18:45:48
17	200320D1_17	2000142-02RE1 PDI-014SC-A-02-03-191003 ...	20-Mar-20	19:17:32
18	200320D1_18	2000142-03RE1 PDI-014SC-A-03-04-191003 ...	20-Mar-20	19:49:10
19	200320D1_19	2000142-04RE1 PDI-016SC-A-02-03-191009 ...	20-Mar-20	20:20:53
20	200320D1_20	2000142-05RE1 PDI-017SC-A-00-01-191003 ...	20-Mar-20	20:52:35
21	200320D1_21	2000142-11RE1 PDI-020SC-A-00-01-191008 ...	20-Mar-20	21:24:18
22	200320D1_22	2000142-12RE1 PDI-020SC-A-01-02-191008 ...	20-Mar-20	21:55:59
23	200320D1_23	2000142-20RE1 PDI-028SC-A-10-11-191003 ...	20-Mar-20	22:27:41
24	200320D1_24	SOLVENT BLANK	20-Mar-20	22:59:22
25	200320D1_25	ST200320D1-2 1613 CS3 19L2305	20-Mar-20	23:31:06

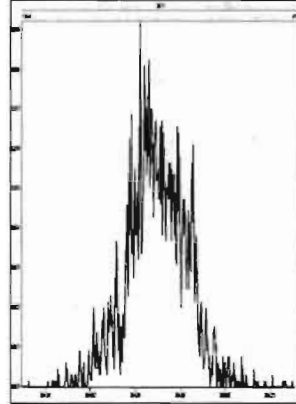
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, March 20, 2020 10:50:23 Pacific Daylight Time

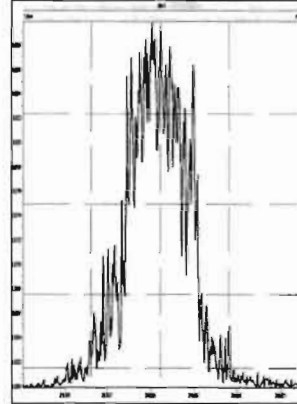
M 292.9824 R 11161



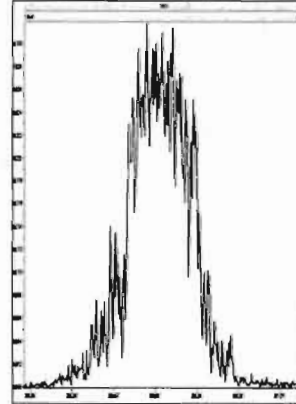
M 304.9824 R 11519



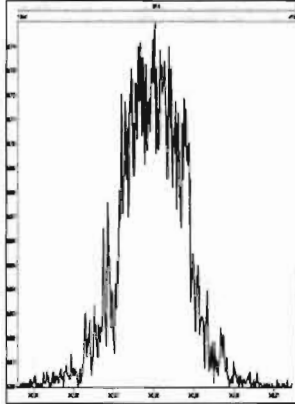
M 318.9792 R 10550



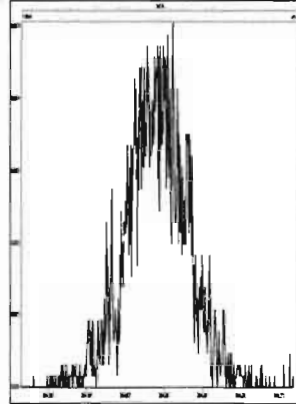
M 330.9792 R 11261



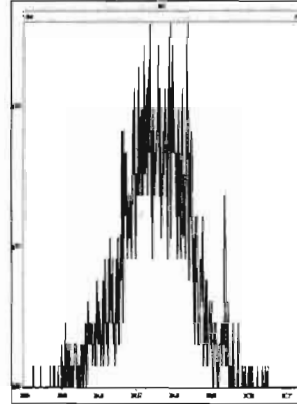
M 342.9792 R 11260



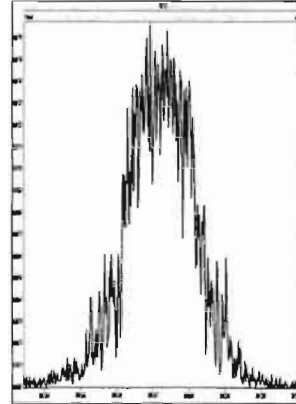
M 354.9792 R 14622

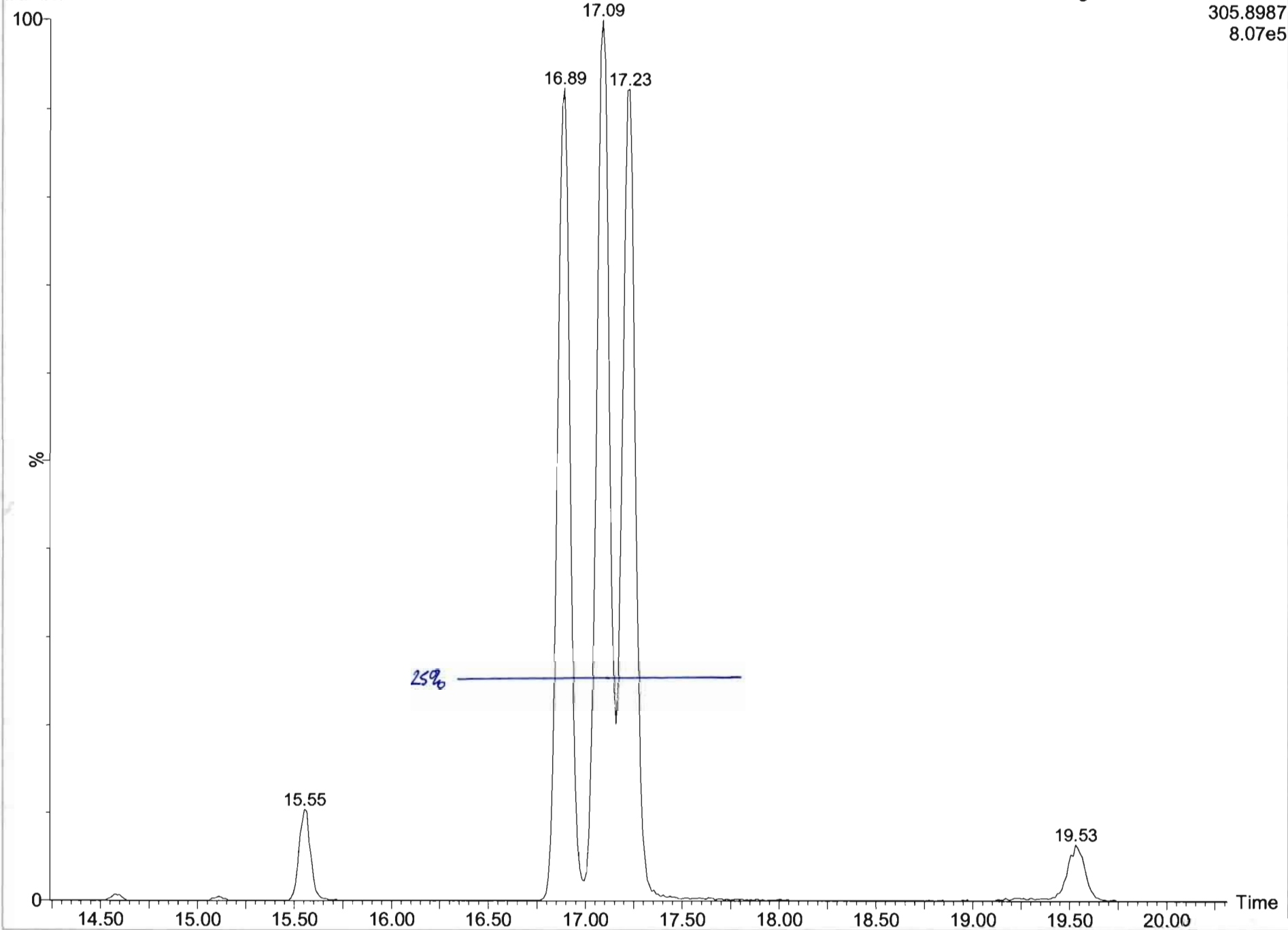


M 366.9792 R 10917



M 380.9760 R 10244





Dataset: U:\VG7.PRO\Results\200320D1\200320D1_1.qld

Last Altered: Friday, March 20, 2020 11:24:27 Pacific Daylight Time

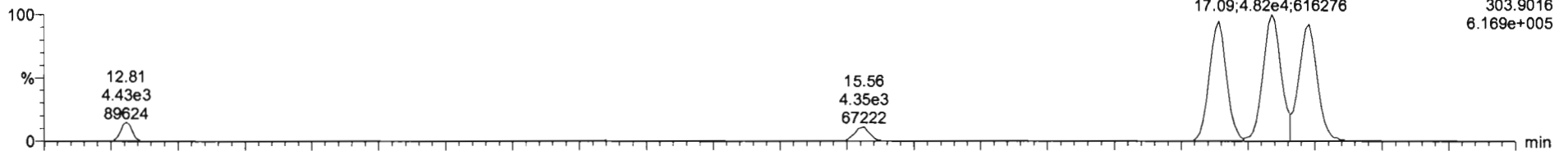
Printed: Friday, March 20, 2020 11:32:14 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\tcdf.mdb 13 Mar 2020 14:29:54
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

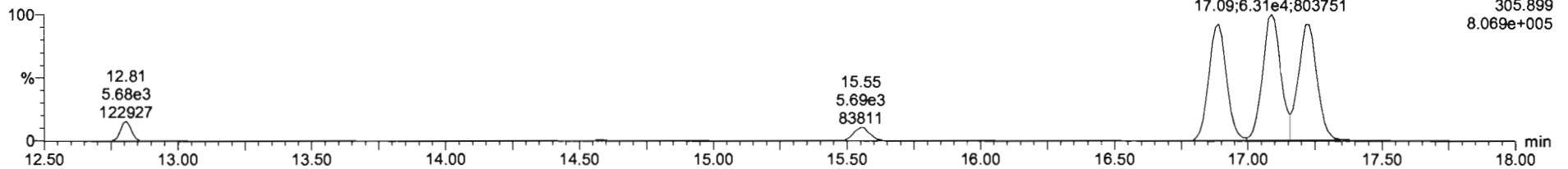
Name: 200320D1_1, Date: 20-Mar-2020, Time: 10:51:50, ID: CP200320D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF

200320D1_1

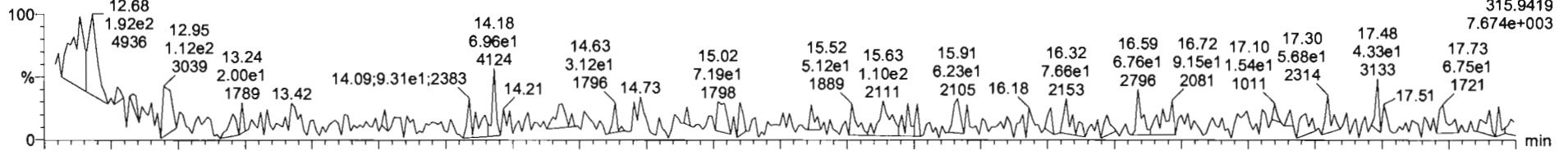


200320D1_1

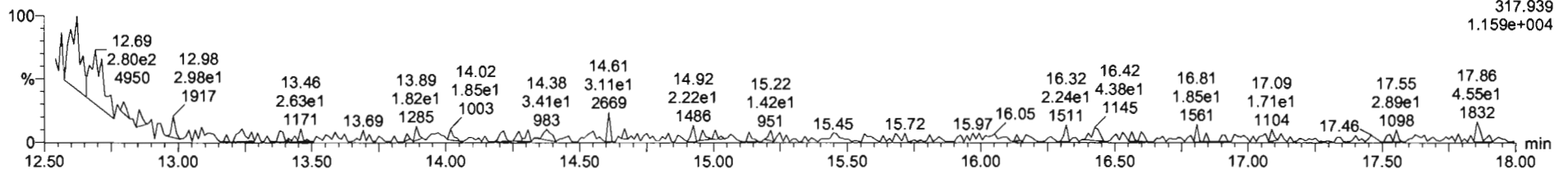


13C-2,3,7,8-TCDF

200320D1_1



200320D1_1

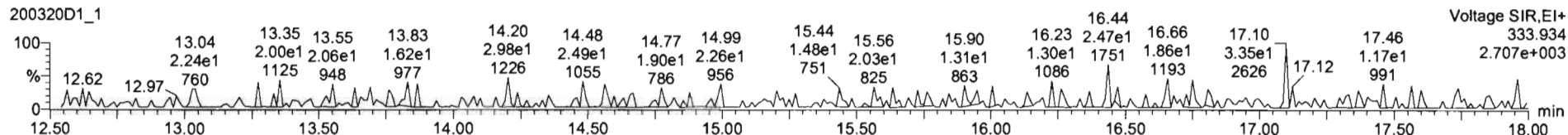
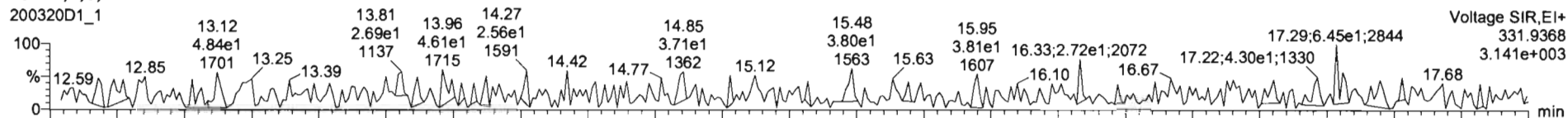


Dataset: U:\VG7.PRO\Results\200320D1\200320D1_1.qld

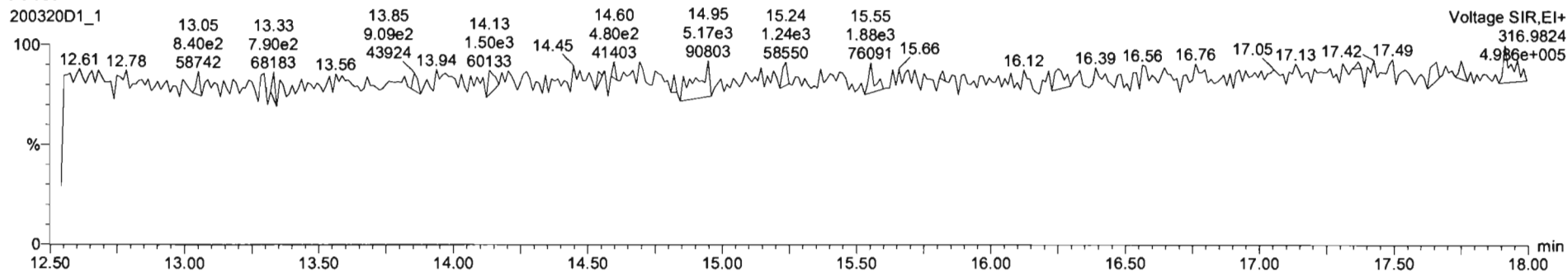
Last Altered: Friday, March 20, 2020 11:24:27 Pacific Daylight Time
Printed: Friday, March 20, 2020 11:32:14 Pacific Daylight Time

Name: 200320D1_1, Date: 20-Mar-2020, Time: 10:51:50, ID: CP200320D1-1 DB-225 CPSM, Description: DB-225 CPSM

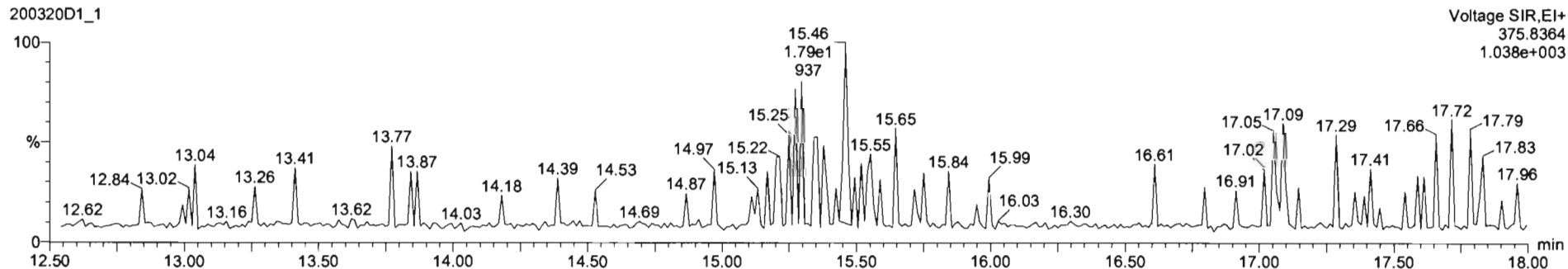
13C-1,2,3,4-TCDD



PFK1



DPE1



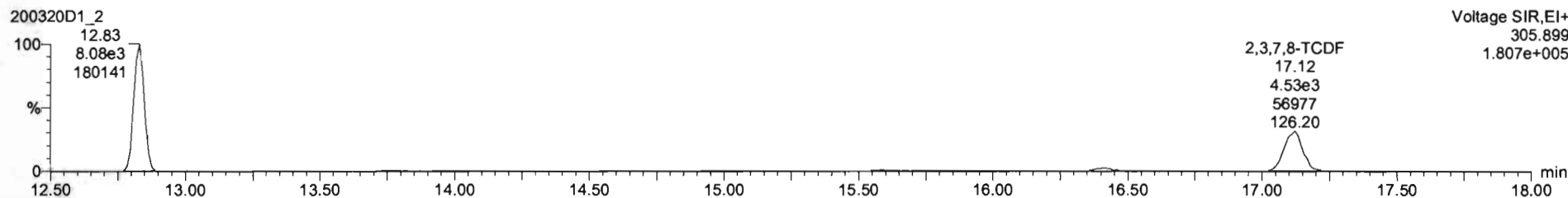
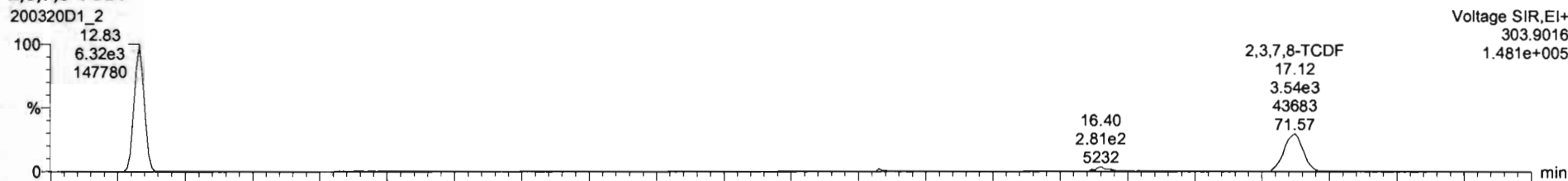
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_2.qld

Last Altered: Friday, March 20, 2020 14:12:06 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:13:28 Pacific Daylight Time

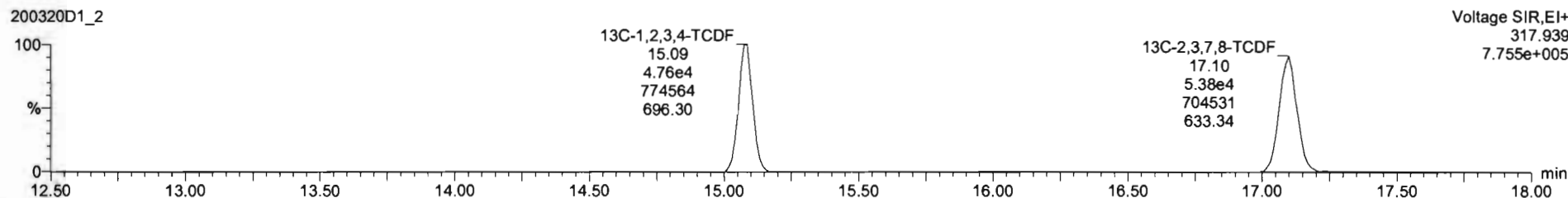
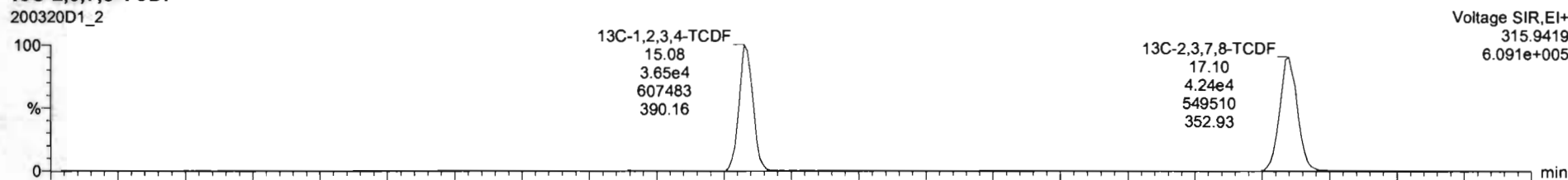
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 20 Mar 2020 11:48:01
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200320D1_2, Date: 20-Mar-2020, Time: 11:21:59, ID: ST200320D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF



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



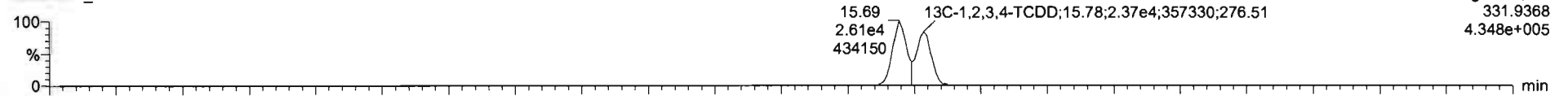
Dataset: U:\VG7.PRO\Results\200320D1\200320D1_2.qld

Last Altered: Friday, March 20, 2020 14:12:06 Pacific Daylight Time
Printed: Friday, March 20, 2020 14:13:28 Pacific Daylight Time

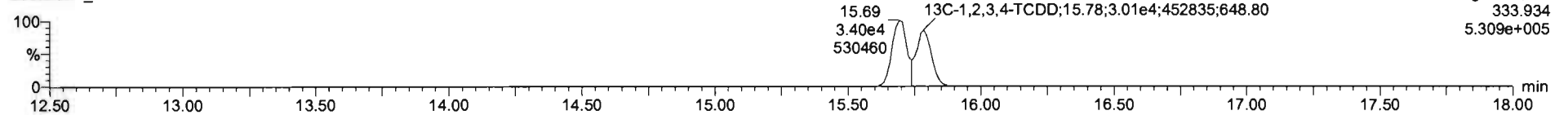
Name: 200320D1_2, Date: 20-Mar-2020, Time: 11:21:59, ID: ST200320D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200320D1_2

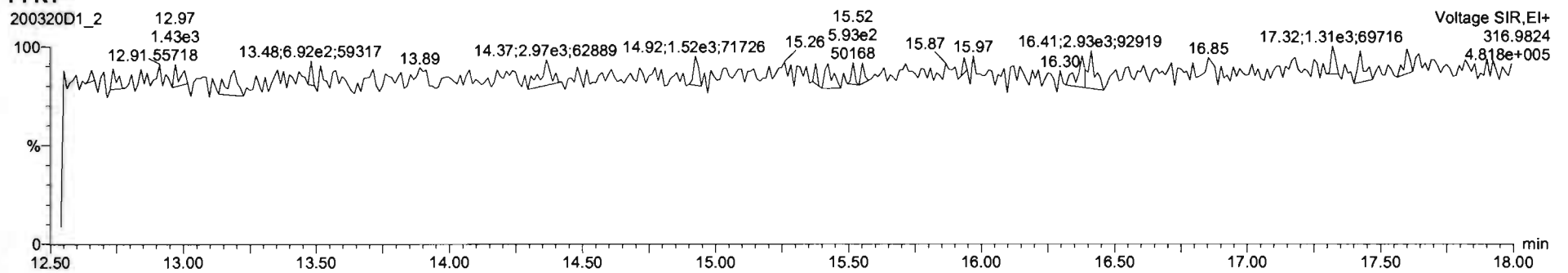


200320D1_2



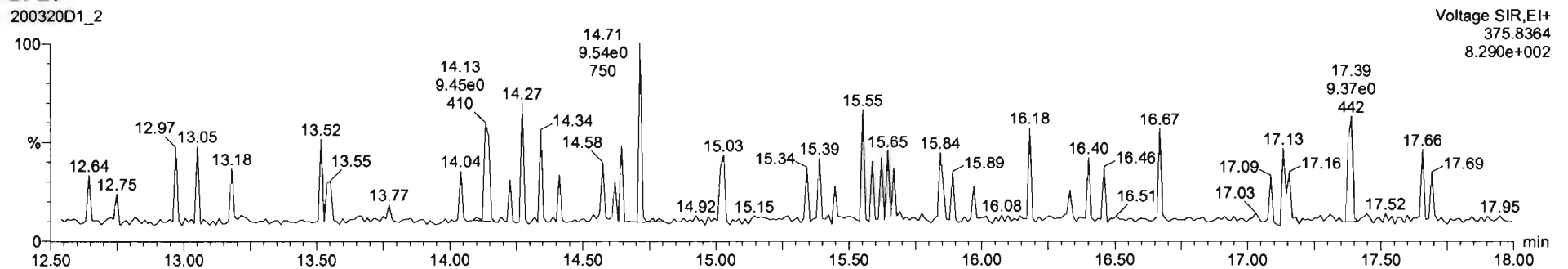
PFK1

200320D1_2



DPE1

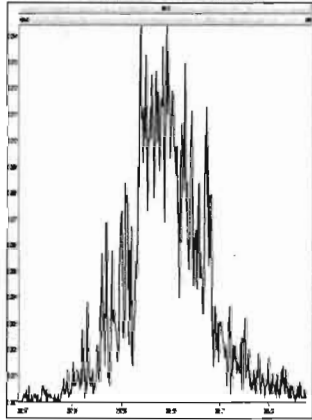
200320D1_2



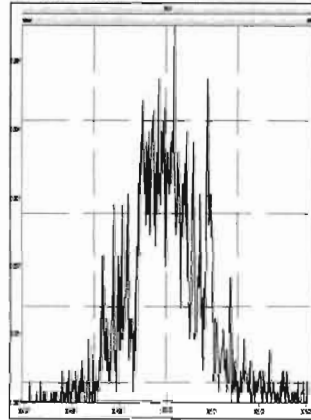
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, March 21, 2020 00:04:50 Pacific Daylight Time

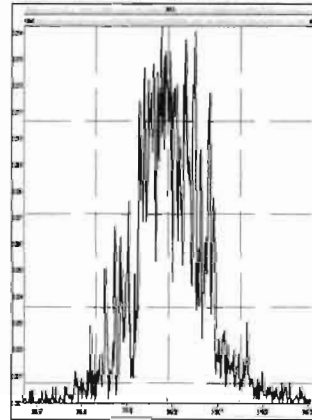
M 292.9824 R 10505



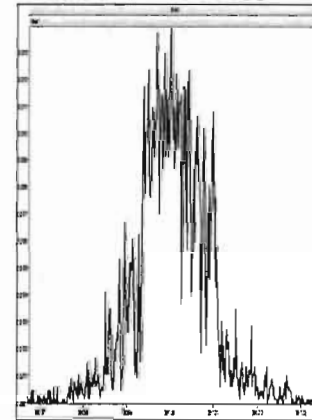
M 304.9824 R 10547



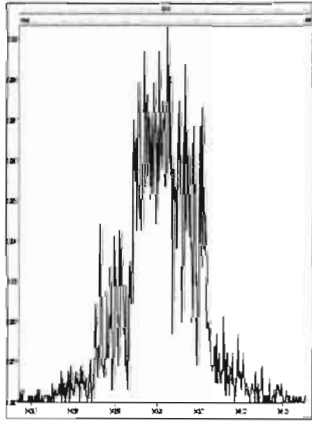
M 318.9792 R 10546



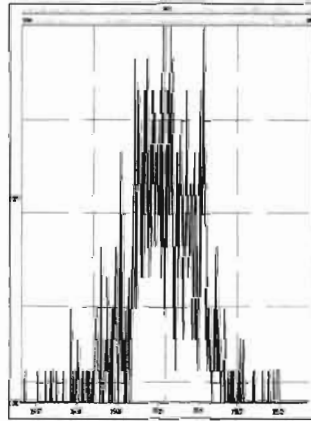
M 330.9792 R 11469



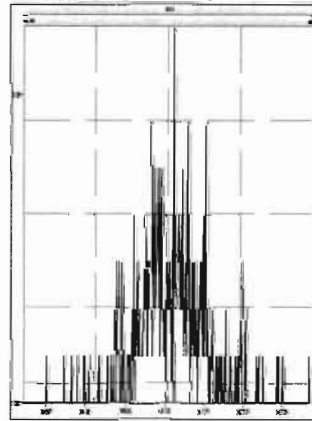
M 342.9792 R 14792



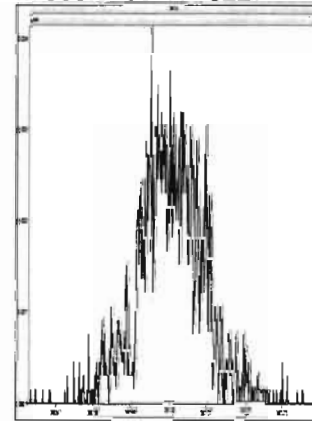
M 354.9792 R 17119



M 366.9792 R 18798



M 380.9760 R 13227



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200310R3-1

Reviewed By: 0703/12/2020

Initials & Date

End Calibration ID: NA

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

Dataset: U:\VG12.PRO\Results\200310R3\200310R3-3.qld

Last Altered: Wednesday, March 11, 2020 07:45:38 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 07:45:45 Pacific Daylight Time

GRB 03/11/2020

CT 03/12/2020

Method: Untitled 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200310R3_3, Date: 11-Mar-2020, Time: 02:13:17, ID: ST200310R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.11e5	0.73	NO	0.821	1.000	16.53	9.4773	94.8	0.128
2	2 13C-2,3,7,8-TCDF	2.71e6	0.78	NO	1.10	1.000	16.51	101.89	102	0.289
3	3 13C-1,2,3,4-TCDF	2.41e6	0.80	NO	1.00	1.000	14.40	100.00	100	0.318
4	4 13C-1,2,3,4-TCDD	2.08e6	0.78	NO	12000	1.000	15.03	173.31	173	0.180

Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 08:04:42 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 08:05:13 Pacific Daylight Time

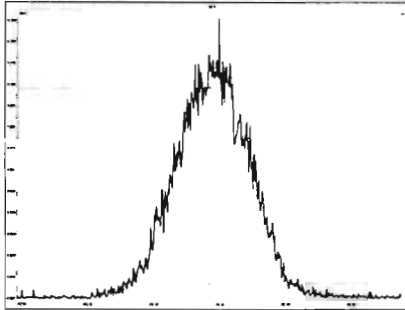
Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

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

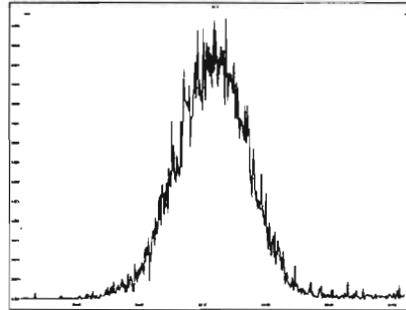
	Name	ID	Acq.Date	Acq.Time
1	200310R3_1	SOLVENT BLANK	11-Mar-20	01:12:40
2	200310R3_2	CP200310R3_1 225 CPSM	11-Mar-20	01:42:53
3	200310R3_3	ST200310R3_1 1613 CS3 19L2305	11-Mar-20	02:13:17
4	200310R3_4	SOLVENT BLANK	11-Mar-20	02:43:42
5	200310R3_5	1903736-01RE2 PDI-026SC-B-00-02-191014 ...	11-Mar-20	03:14:05
6	200310R3_6	1903736-02RE2 PDI-026SC-B-02-04-191014 ...	11-Mar-20	03:44:29
7	200310R3_7	1903736-05RE2 PDI-077SC-B-00-02-191014 ...	11-Mar-20	04:14:54
8	200310R3_8	1903736-06RE2 PDI-077SC-B-02-04-191014 ...	11-Mar-20	04:45:19
9	200310R3_9	1903736-07RE2 PDI-077SC-B-04-06-191014 ...	11-Mar-20	05:15:46
10	200310R3_10	1903736-08RE2 PDI-077SC-B-06-08-191014 ...	11-Mar-20	05:46:11
11	200310R3_11	1903736-09RE2 PDI-079SC-B-00-02-191014 ...	11-Mar-20	06:16:36
12	200310R3_12	1903736-11RE2 PDI-079SC-B-04-06-191014 ...	11-Mar-20	06:46:59
13	200310R3_13	1903736-12RE2 PDI-079SC-B-06-08-191014 ...	11-Mar-20	07:17:25

Printed: Wednesday, March 11, 2020 01:12:39 Pacific Daylight Time

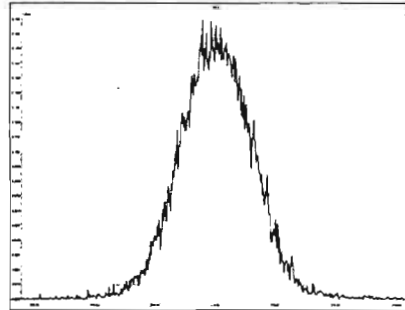
M 292.9824 R 11961



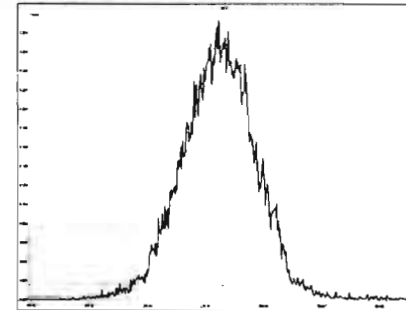
M 304.9824 R 12348



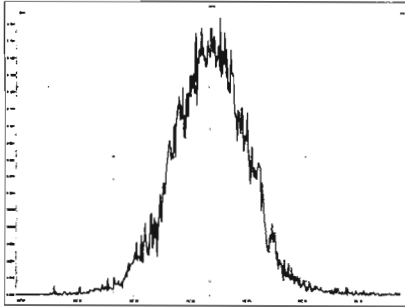
M 318.9792 R 11264



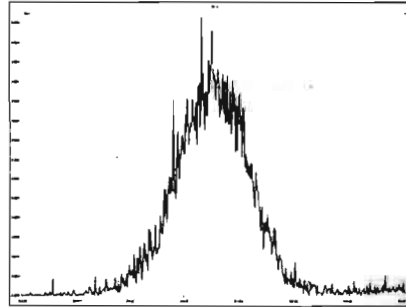
M 330.9792 R 11236



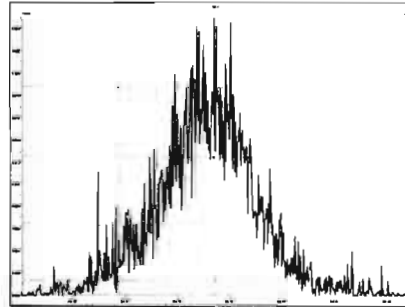
M 342.9792 R 11390



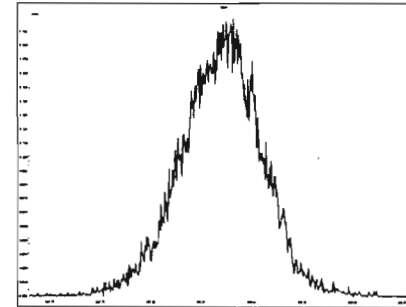
M 354.9792 R 11995



M 366.9792 R 10438



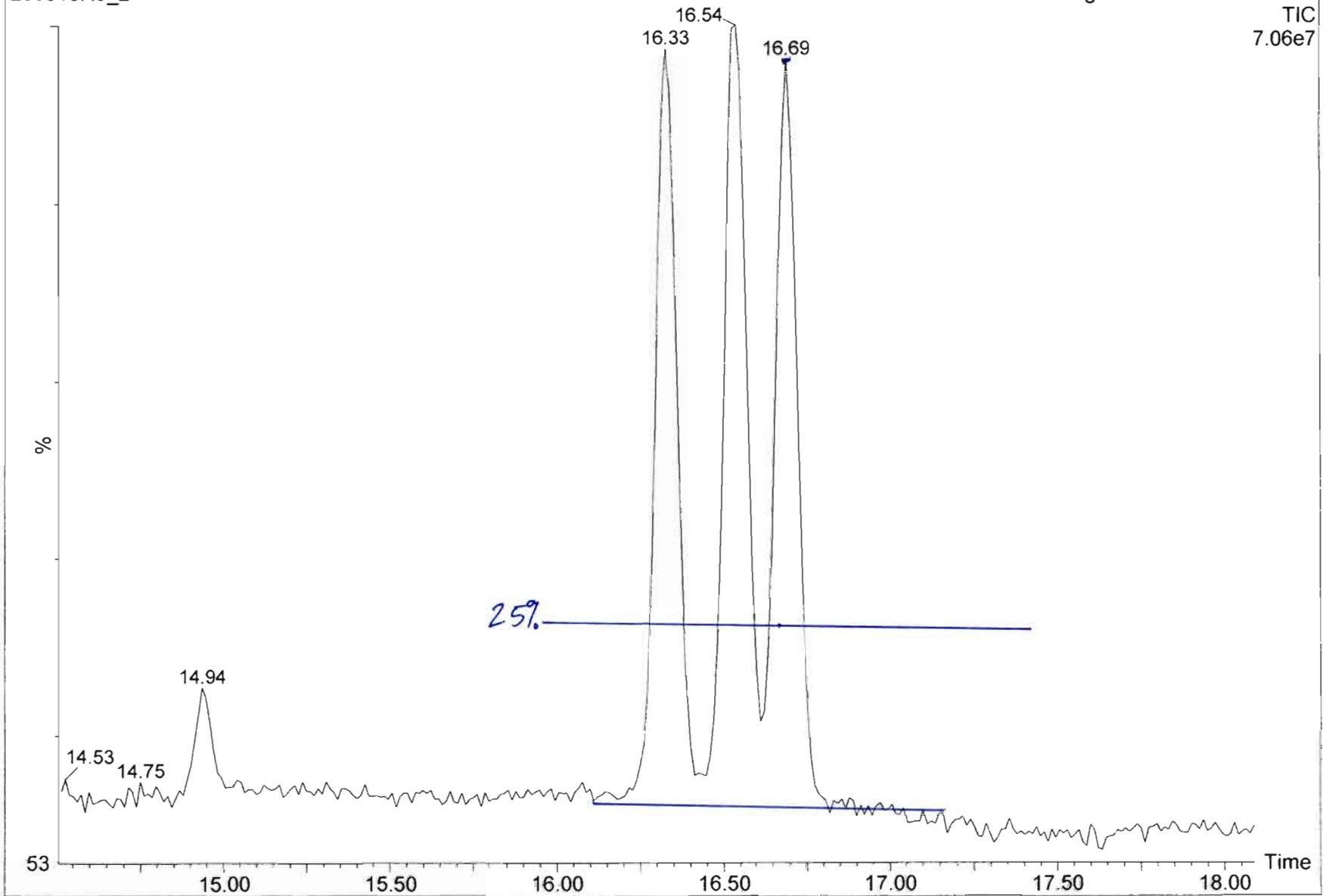
M 380.9760 R 10593



GPR 03/11/2020

225 CPSM
200310R3_2

Voltage SIR 12 Channels EI+
TIC
7.06e7



Dataset: U:\VG12.PRO\Results\200310R3\200310R3-3.qld

Last Altered: Wednesday, March 11, 2020 07:45:38 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 07:46:02 Pacific Daylight Time

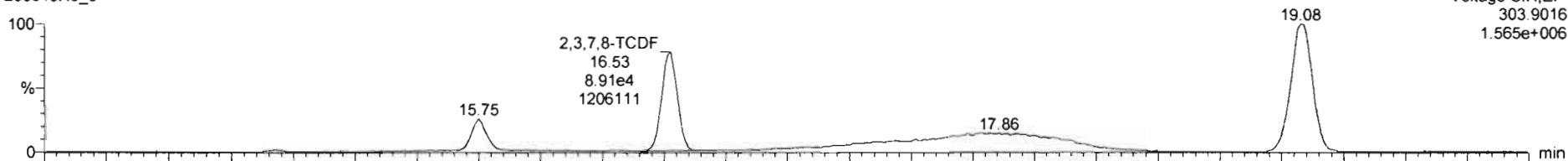
Method: Untitled 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

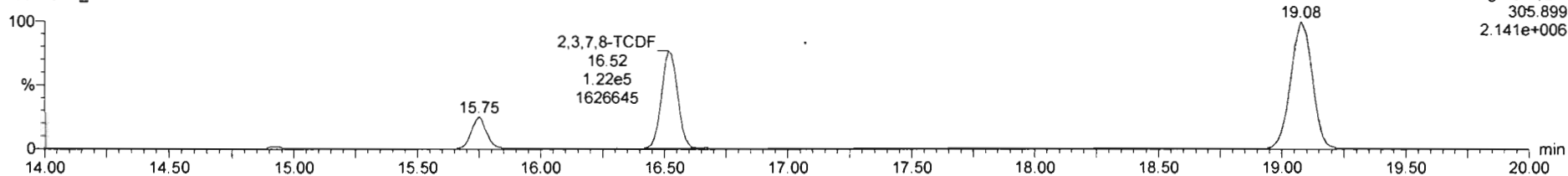
Name: 200310R3_3, Date: 11-Mar-2020, Time: 02:13:17, ID: ST200310R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200310R3_3

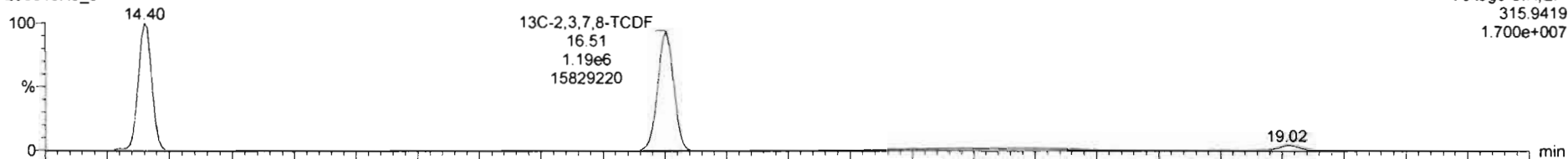


200310R3_3

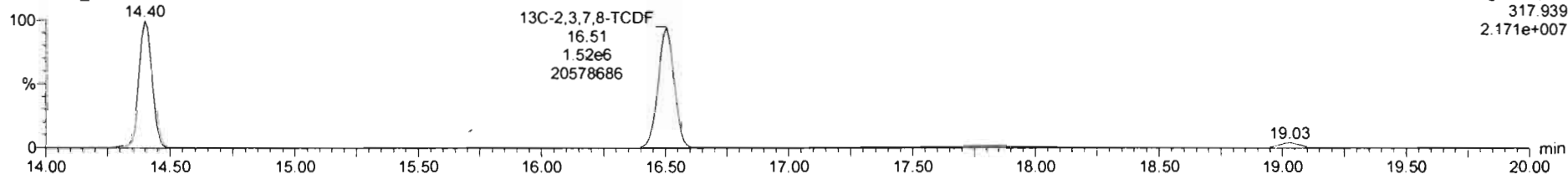


13C-2,3,7,8-TCDF

200310R3_3



200310R3_3



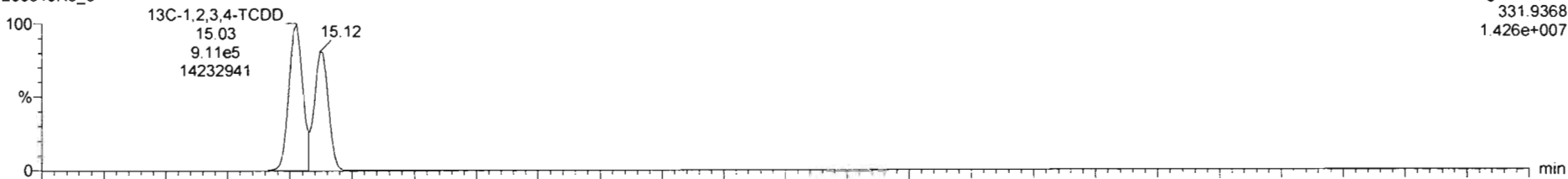
Dataset: U:\VG12.PRO\Results\200310R3\200310R3-3.qld

Last Altered: Wednesday, March 11, 2020 07:45:38 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 07:46:02 Pacific Daylight Time

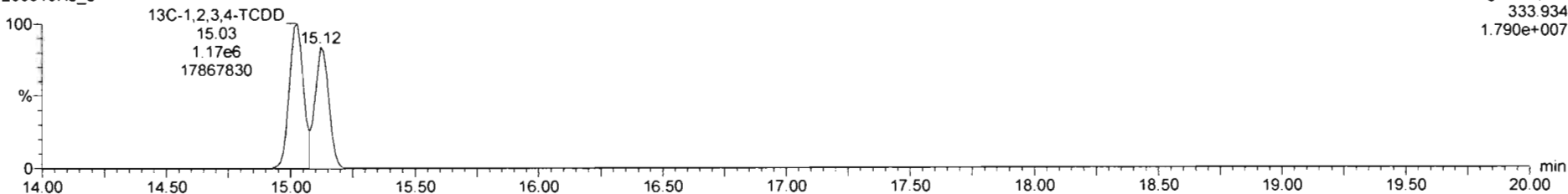
Name: 200310R3_3, Date: 11-Mar-2020, Time: 02:13:17, ID: ST200310R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200310R3_3

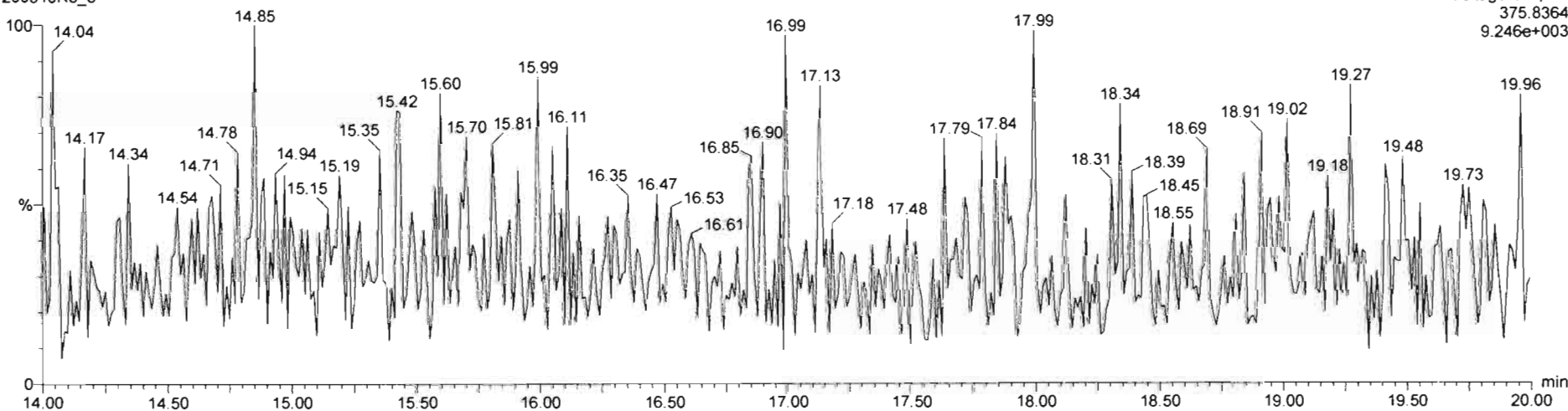


200310R3_3



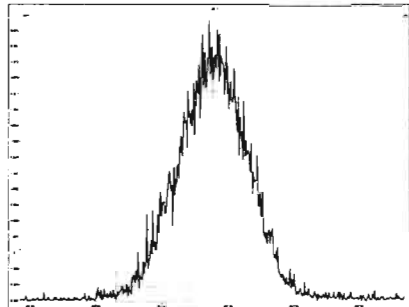
DPE1

200310R3_3

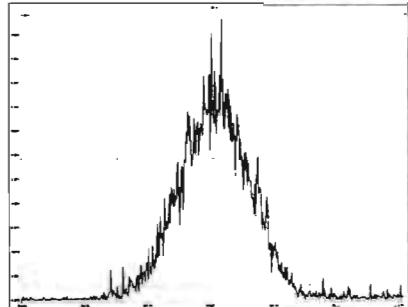


Printed: Wednesday, March 11, 2020 07:49:37 Pacific Daylight Time

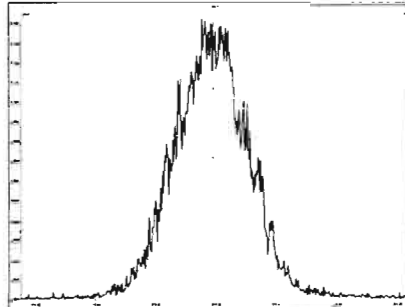
M 292.9824 R 11764



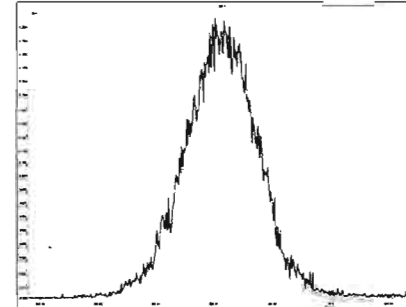
M 304.9824 R 12255



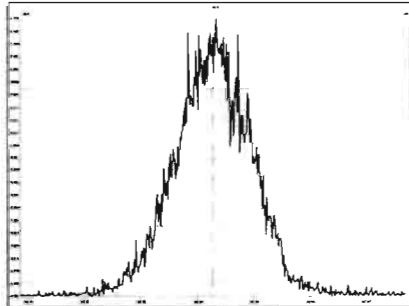
M 318.9792 R 11764



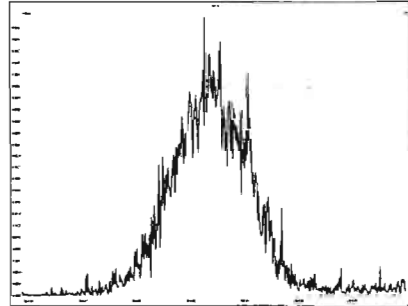
M 330.9792 R 11396



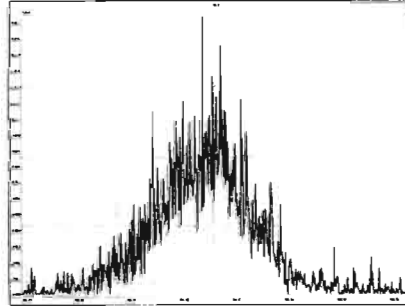
M 342.9792 R 11378



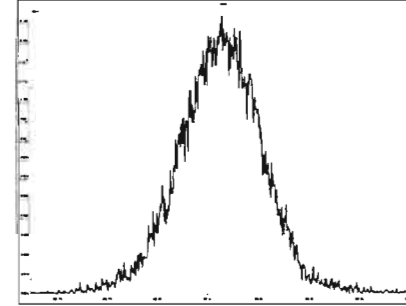
M 354.9792 R 12056



M 366.9792 R 10941



M 380.9760 R 10590



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200330D1-1

Reviewed By: C7 03/31/2022
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"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>DB</u>	<u>DB</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	(Y)	N
- Bottle position verified?	<u>DB</u>	<u>DB</u>

	<u>Beg.</u>	<u>End</u>
Mass resolution ≥	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
GC Break <20%		<input checked="" type="checkbox"/> NA
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input checked="" type="checkbox"/> NA

Comments:

Dataset: U:\VG7.PRO\Results\200330D1\200330D1_2.qld

Last Altered: Tuesday, March 31, 2020 09:31:28 Pacific Daylight Time
Printed: Tuesday, March 31, 2020 09:32:31 Pacific Daylight Time

DB 3/31/20

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

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

Name: 200330D1_2, Date: 30-Mar-2020, Time: 15:05:23, ID: ST200330D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.40e3	0.77	NO	0.982	1.000	17.631	17.62	1.000	1.001	10.371	104	0.598	10.4
2	2 13C-2,3,7,8-TCDF	1.37e4	0.74	NO	1.08	1.000	17.654	17.61	1.133	1.137	98.458	98.5	2.82	
3	3 13C-1,2,3,4-TCDF	1.29e4	0.85	NO	1.00	1.000	15.660	15.49	1.000	1.000	100.00	100	3.06	

Dataset: Untitled

Last Altered: Tuesday, March 31, 2020 09:33:52 Pacific Daylight Time
Printed: Tuesday, March 31, 2020 09:34:08 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

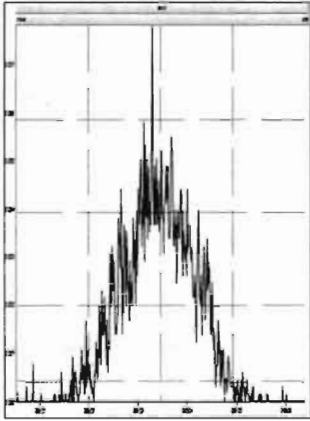
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200330D1_1	CP200330D1-1 DB-225 CPSM	30-Mar-20	14:35:14
2	200330D1_2	ST200330D1-1 1613 CS3 19L2305	30-Mar-20	15:05:23
3	200330D1_3	SOLVENT BLANK	30-Mar-20	15:37:01
4	200330D1_4	1903736-03RE2 PDI-026SC-B-04-06-191014 ...	30-Mar-20	16:08:47

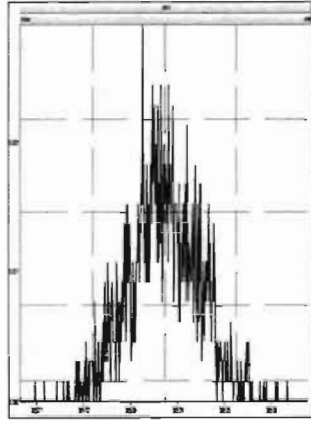
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, March 30, 2020 14:31:28 Pacific Daylight Time

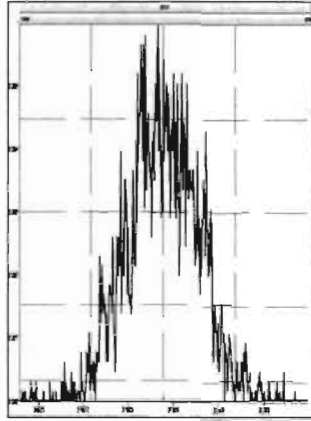
M 292.9824 R 11058



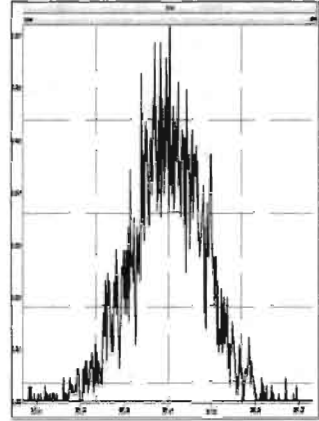
M 304.9824 R 12376



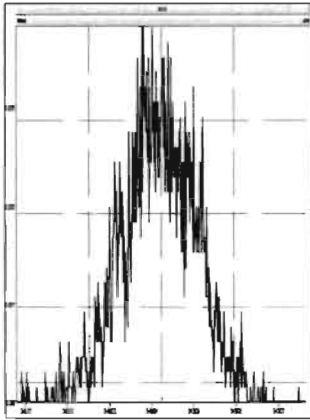
M 318.9792 R 11260



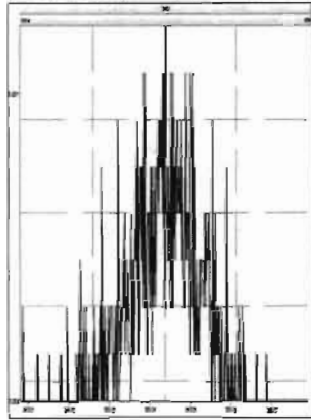
M 330.9792 R 10201



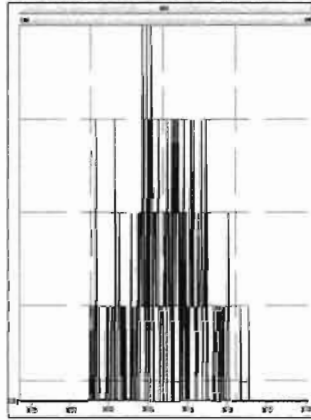
M 342.9792 R 10040



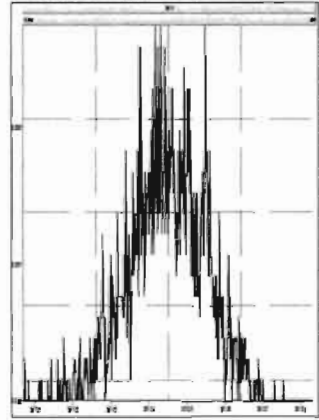
M 354.9792 R 15526

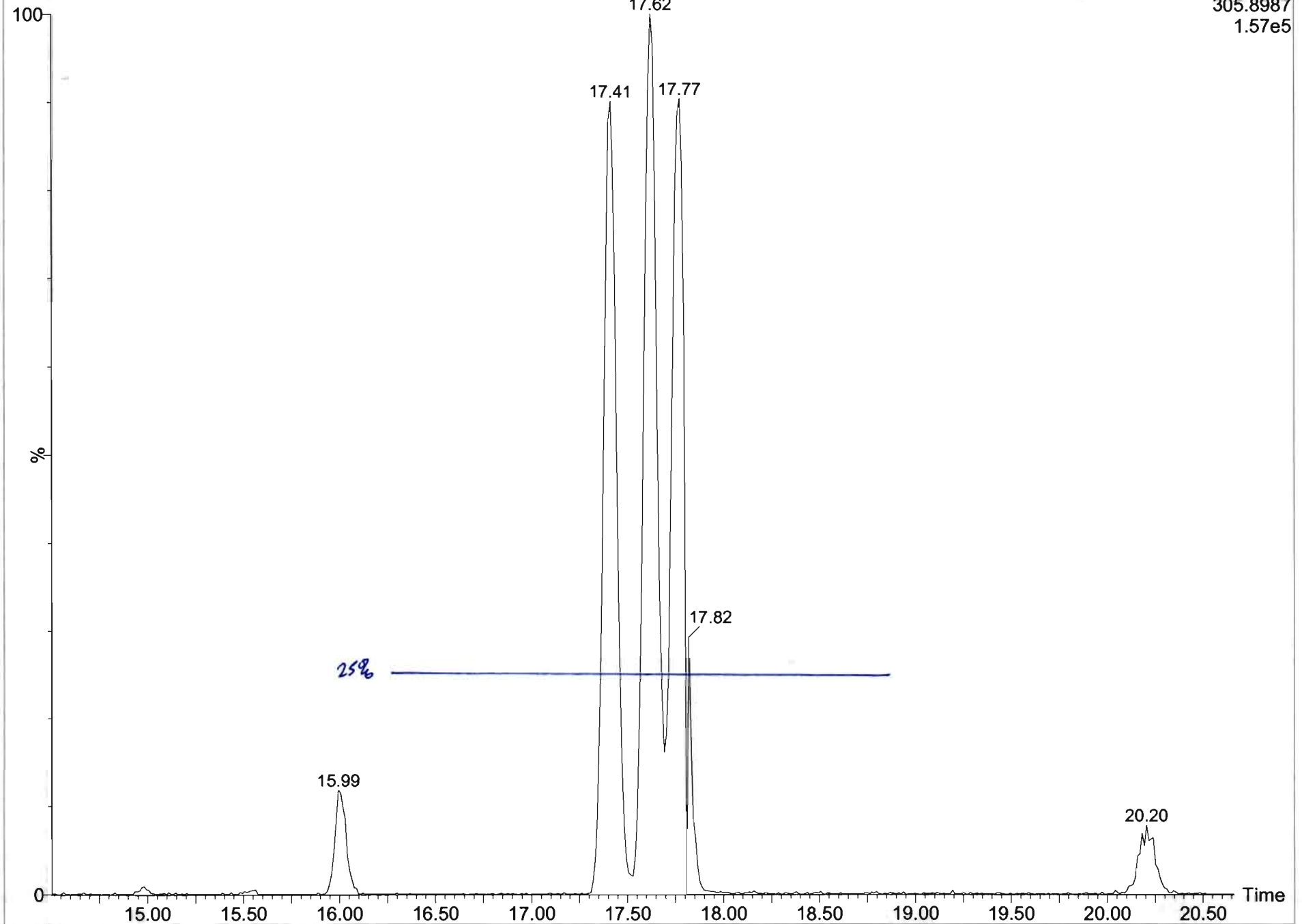


M 366.9792 R 124972



M 380.9760 R 11416





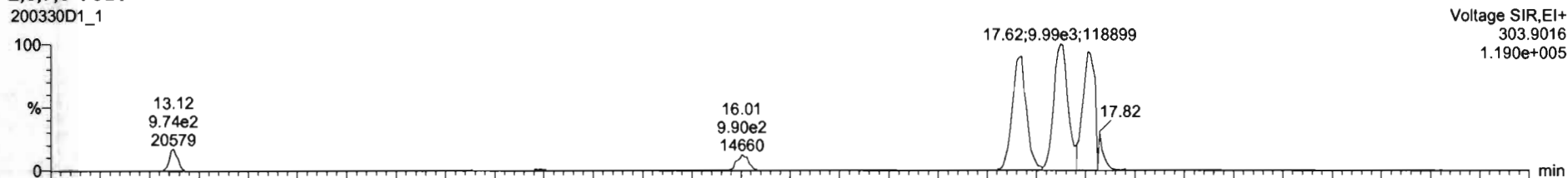
Dataset: U:\VG7.PRO\Results\200330D1\200330D1_1.qld

Last Altered: Tuesday, March 31, 2020 09:30:10 Pacific Daylight Time
Printed: Tuesday, March 31, 2020 09:31:15 Pacific Daylight Time

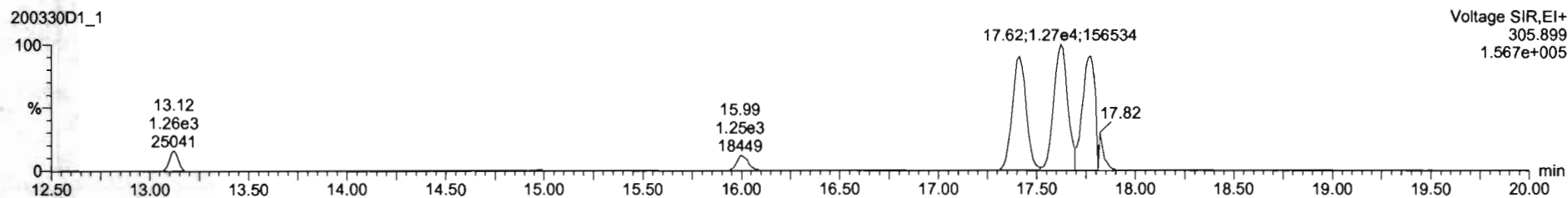
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200330D1_1, Date: 30-Mar-2020, Time: 14:35:14, ID: CP200330D1-1 DB-225 CPSM, Description: DB-225 CPSM

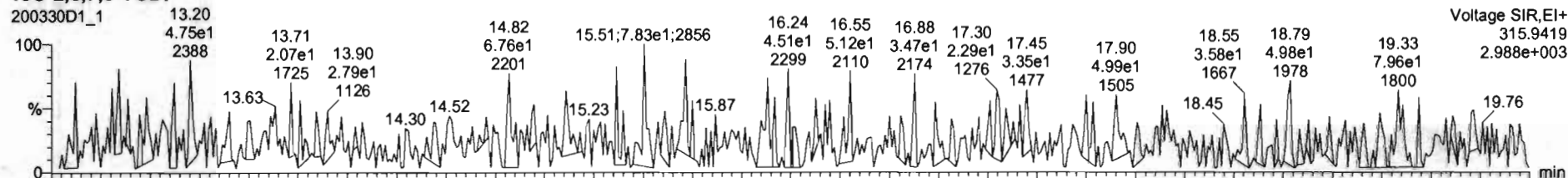
2,3,7,8-TCDF
200330D1_1



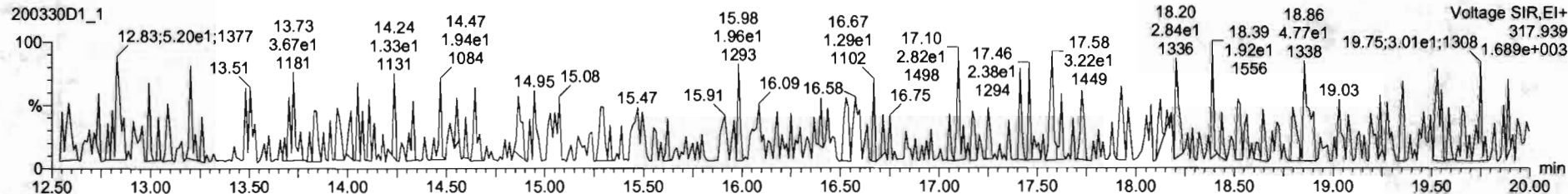
200330D1_1



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



200330D1_1

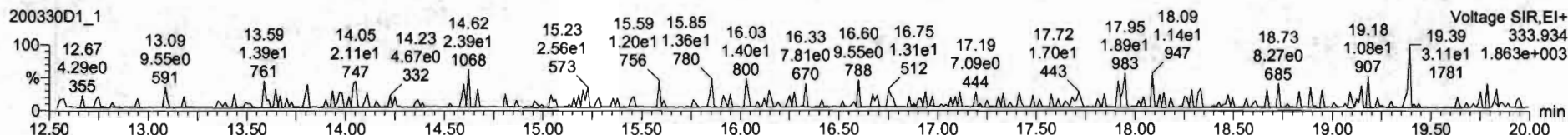
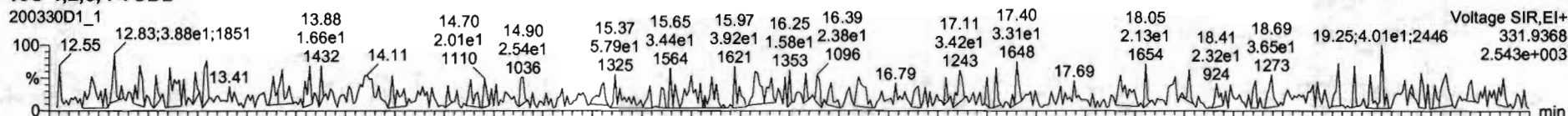


Dataset: U:\VG7.PRO\Results\200330D1\200330D1_1.qld

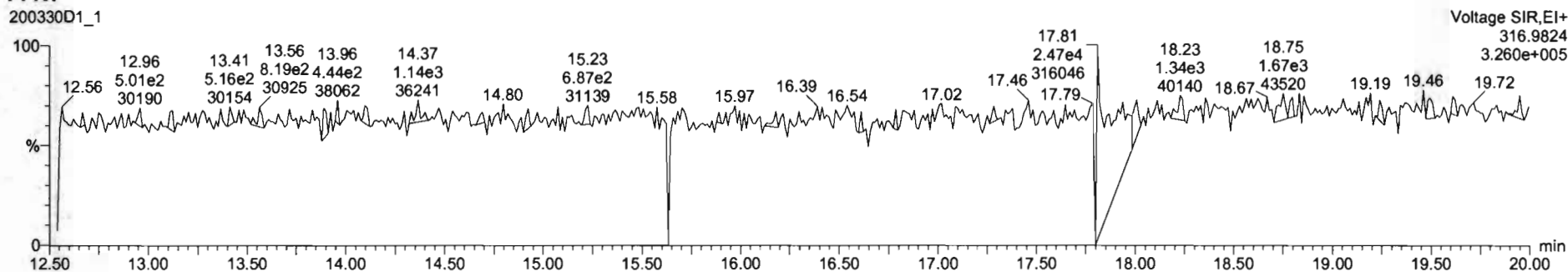
Last Altered: Tuesday, March 31, 2020 09:30:10 Pacific Daylight Time
Printed: Tuesday, March 31, 2020 09:31:15 Pacific Daylight Time

Name: 200330D1_1, Date: 30-Mar-2020, Time: 14:35:14, ID: CP200330D1-1 DB-225 CPSM, Description: DB-225 CPSM

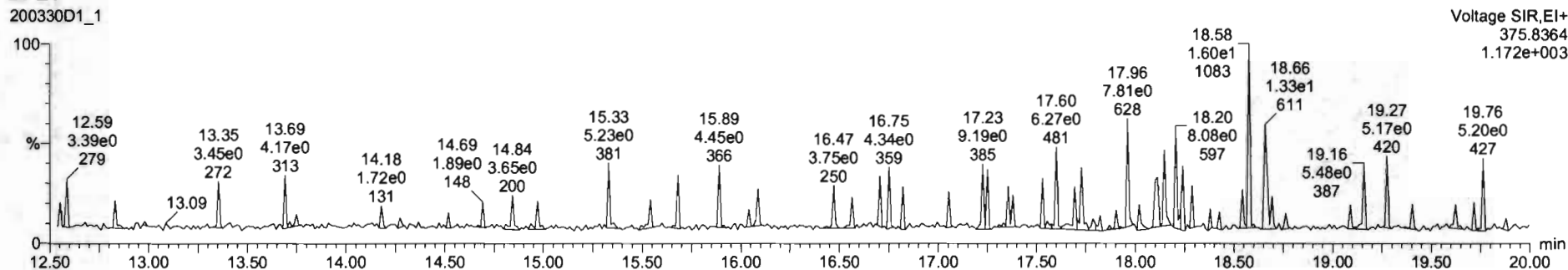
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200330D1\200330D1_2.qld

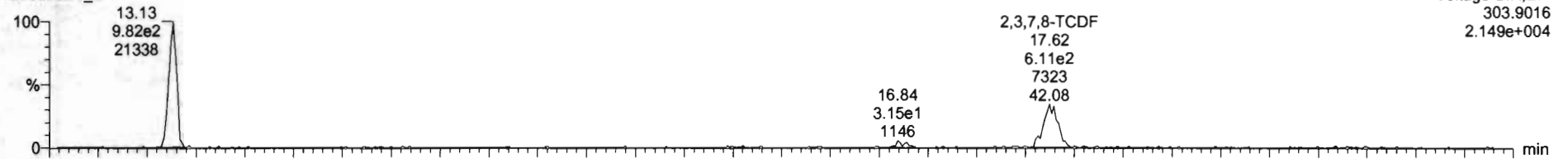
Last Altered: Tuesday, March 31, 2020 09:31:28 Pacific Daylight Time
Printed: Tuesday, March 31, 2020 09:32:49 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

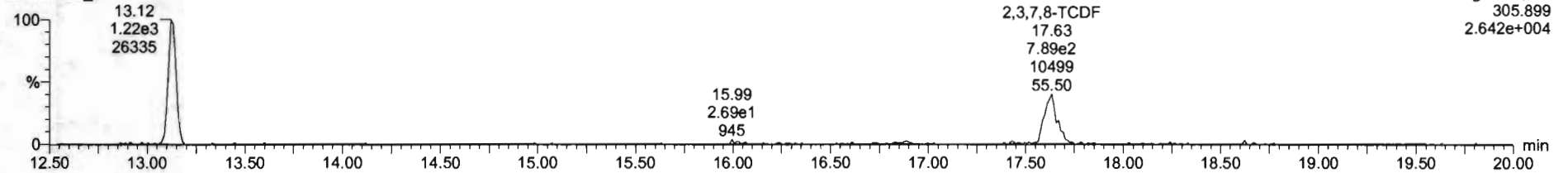
Name: 200330D1_2, Date: 30-Mar-2020, Time: 15:05:23, ID: ST200330D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200330D1_2

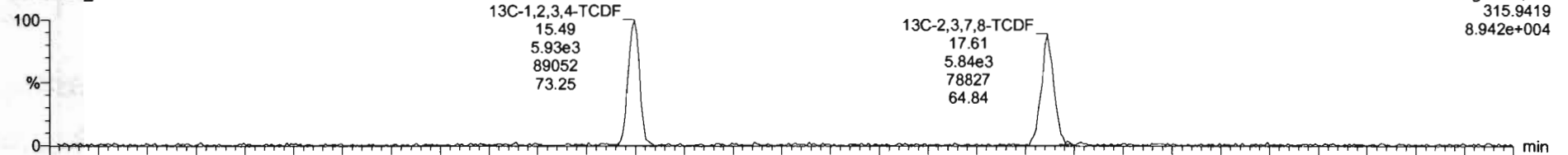


200330D1_2

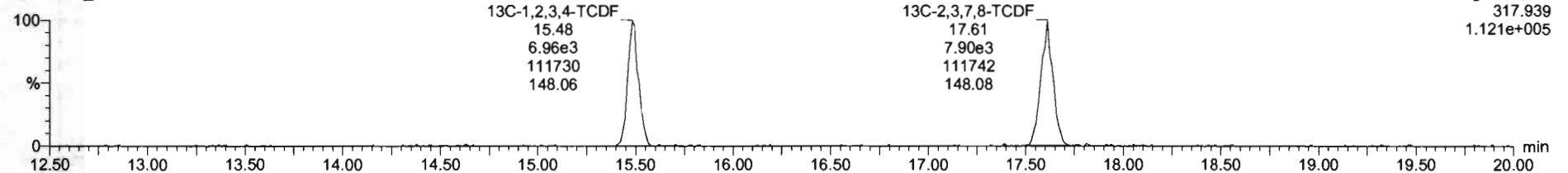


13C-2,3,7,8-TCDF

200330D1_2



200330D1_2



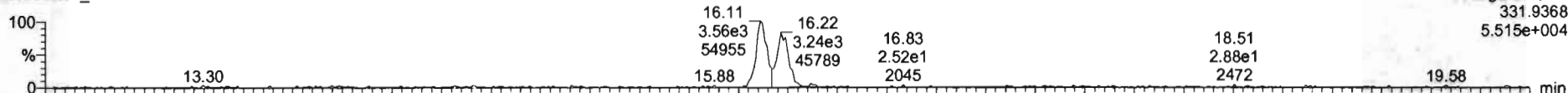
Dataset: U:\VG7.PRO\Results\200330D1\200330D1_2.qld

Last Altered: Tuesday, March 31, 2020 09:31:28 Pacific Daylight Time
Printed: Tuesday, March 31, 2020 09:32:49 Pacific Daylight Time

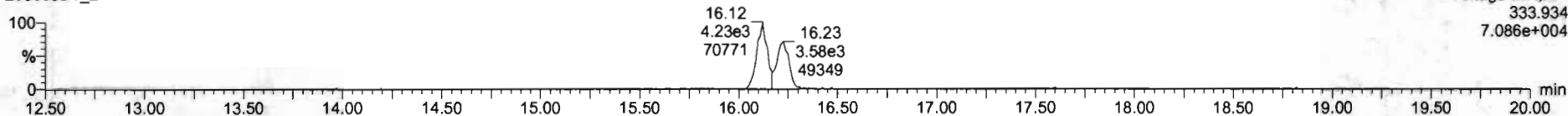
Name: 200330D1_2, Date: 30-Mar-2020, Time: 15:05:23, ID: ST200330D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200330D1_2

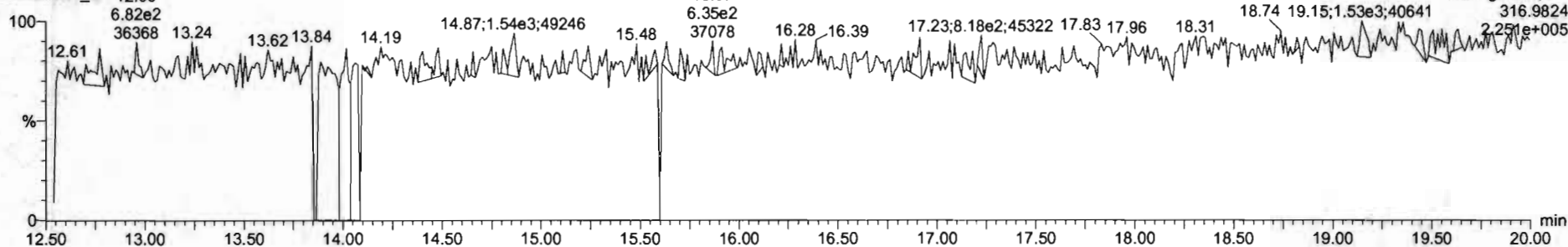


200330D1_2



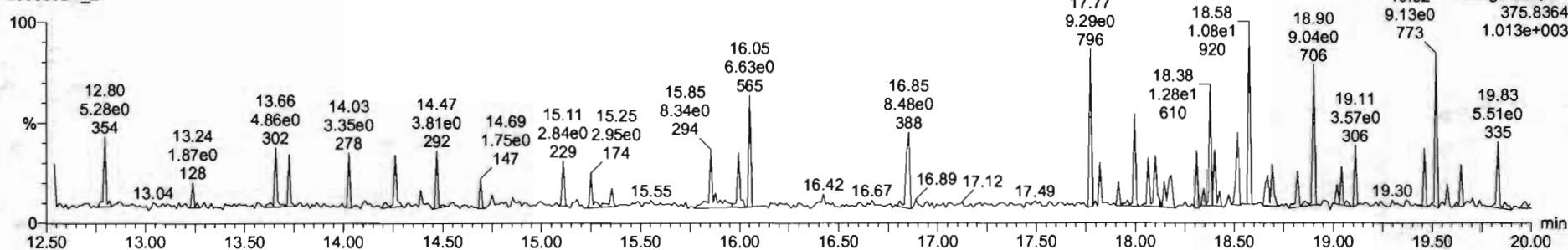
PFK1

200330D1_2



DPE1

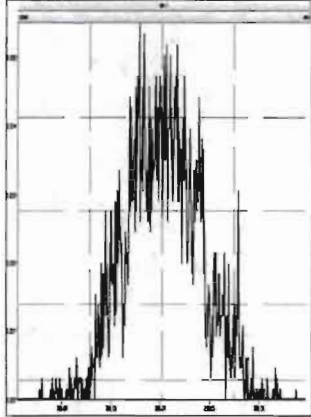
200330D1_2



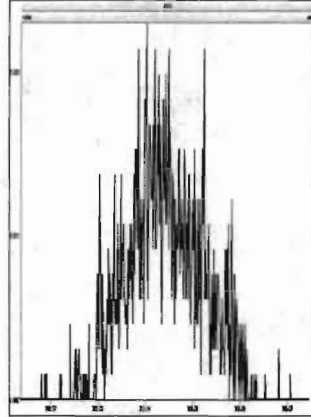
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, March 30, 2020 16:42:42 Pacific Daylight Time

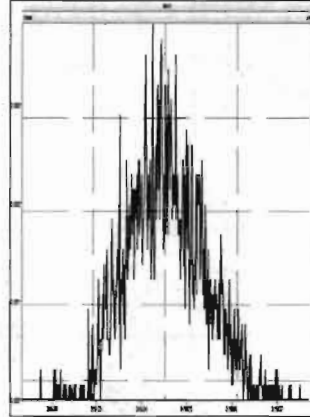
M 292.9824 R 10640



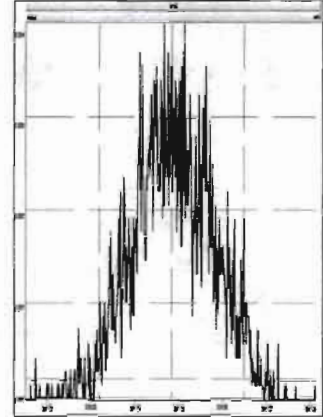
M 304.9824 R 10331



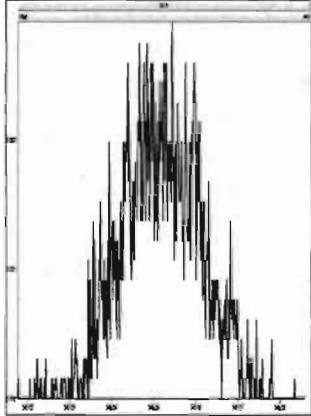
M 318.9792 R 10120



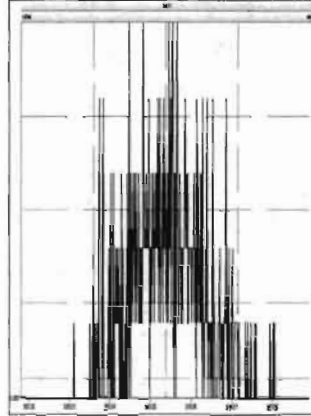
M 330.9792 R 8593



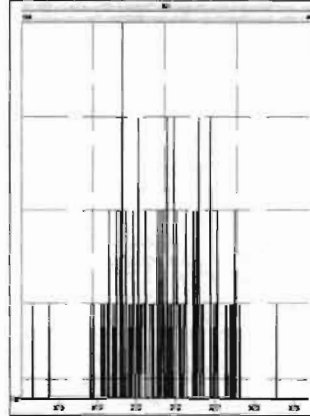
M 342.9792 R 9616



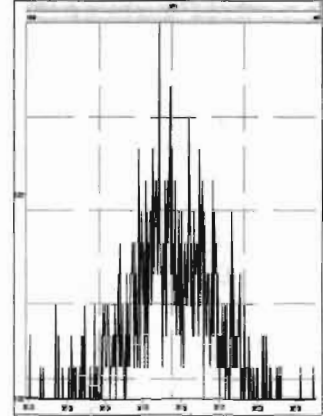
M 354.9792 R 16233



M 366.9792 R 125028



M 380.9760 R 12196



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

GRB 02/02/2020

C: 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

Response Factor: 0.988069

RRF SD: 0.0483829, Relative SD: 4.89671

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	200131R1_1	0.250	0.83	NO	25.74	1.001	2.87e3	1.21e6	0.239	-4.3	0.945	bb
2	200131R1_2	0.500	0.77	NO	25.69	1.001	7.22e3	1.37e6	0.532	6.5	1.05	bb
3	200131R1_3	2.00	0.80	NO	25.70	1.001	3.00e4	1.44e6	2.11	5.7	1.04	bb
4	200131R1_4	10.0	0.78	NO	25.70	1.001	1.39e5	1.42e6	9.92	-0.8	0.980	db
5	200131R1_5	40.0	0.77	NO	25.69	1.001	5.51e5	1.45e6	38.3	-4.2	0.946	bb
6	200131R1_6	300	0.78	NO	25.70	1.001	5.05e6	1.75e6	291	-2.9	0.960	bb

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

Response Factor: 0.972284

RRF SD: 0.054098, Relative SD: 5.56402

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	200131R1_1	1.25	0.57	NO	30.67	1.000	1.12e4	9.52e5	1.21	-3.0	0.943	bb
2	200131R1_2	2.50	0.60	NO	30.64	1.001	2.75e4	1.05e6	2.70	7.9	1.05	bb
3	200131R1_3	10.0	0.63	NO	30.64	1.000	1.18e5	1.14e6	10.6	6.4	1.03	bb
4	200131R1_4	50.0	0.63	NO	30.64	1.000	5.09e5	1.09e6	48.2	-3.7	0.936	bb
5	200131R1_5	200	0.63	NO	30.62	1.000	2.30e6	1.23e6	192	-4.2	0.931	bb
6	200131R1_6	1500	0.63	NO	30.64	1.000	2.16e7	1.53e6	1450	-3.4	0.940	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 1.07079

RRF SD: 0.0439702, Relative SD: 4.10634

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	200131R1_1	1.25	1.18	NO	34.01	1.001	9.84e3	7.72e5	1.19	-4.8	1.02	MM
2	200131R1_2	2.50	1.28	NO	33.98	1.001	2.47e4	8.79e5	2.62	4.9	1.12	bd
3	200131R1_3	10.0	1.23	NO	33.98	1.000	1.09e5	9.69e5	10.5	5.2	1.13	bd
4	200131R1_4	50.0	1.22	NO	33.99	1.000	4.82e5	9.08e5	49.6	-0.8	1.06	bd
5	200131R1_5	200	1.27	NO	33.97	1.000	2.18e6	1.04e6	195	-2.7	1.04	bd
6	200131R1_6	1500	1.21	NO	33.99	1.000	2.05e7	1.30e6	1470	-1.8	1.05	bd

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

Response Factor: 0.921124

RRF SD: 0.0705821, Relative SD: 7.66261

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	200131R1_1	1.25	1.14	NO	34.10	1.000	1.01e4	9.31e5	1.18	-5.8	0.868	MM
2	200131R1_2	2.50	1.28	NO	34.08	1.001	2.68e4	1.05e6	2.78	11.2	1.02	db
3	200131R1_3	10.0	1.21	NO	34.08	1.000	1.13e5	1.13e6	10.8	8.3	0.998	db
4	200131R1_4	50.0	1.22	NO	34.09	1.001	4.87e5	1.11e6	47.7	-4.7	0.878	db
5	200131R1_5	200	1.17	NO	34.07	1.000	2.21e6	1.24e6	193	-3.4	0.890	db
6	200131R1_6	1500	1.22	NO	34.09	1.001	2.03e7	1.56e6	1410	-5.7	0.868	db

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

Response Factor: 0.9182

RRF SD: 0.0596016, Relative SD: 6.49114

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	200131R1_1	1.25	1.36	NO	34.38	1.000	9.78e3	9.08e5	1.17	-6.1	0.862	MM
2	200131R1_2	2.50	1.21	NO	34.35	1.000	2.43e4	9.77e5	2.71	8.3	0.995	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	10.0	1.18	NO	34.36	1.000	1.03e5	1.04e6	10.8	8.0	0.991	bb
4	200131R1_4	50.0	1.22	NO	34.37	1.001	4.43e5	1.02e6	47.4	-5.3	0.870	bb
5	200131R1_5	200	1.22	NO	34.35	1.001	2.05e6	1.15e6	195	-2.7	0.893	bb
6	200131R1_6	1500	1.22	NO	34.37	1.001	1.94e7	1.44e6	1470	-2.2	0.898	bb

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

Response Factor: 0.923064
 RRF SD: 0.0512135, Relative SD: 5.54821
 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	200131R1_1	1.25	1.04	NO	37.92	1.000	8.20e3	7.05e5	1.26	0.7	0.930	bb
2	200131R1_2	2.50	1.06	NO	37.88	1.000	1.88e4	7.60e5	2.69	7.4	0.991	bb
3	200131R1_3	10.0	1.02	NO	37.90	1.001	7.44e4	7.62e5	10.6	5.8	0.976	bb
4	200131R1_4	50.0	1.01	NO	37.90	1.000	3.45e5	7.83e5	47.7	-4.7	0.880	bb
5	200131R1_5	200	1.00	NO	37.88	1.000	1.57e6	8.87e5	192	-4.0	0.886	bb
6	200131R1_6	1500	1.01	NO	37.91	1.001	1.45e7	1.10e6	1420	-5.2	0.875	bb

Compound name: OCDD

Response Factor: 0.974578
 RRF SD: 0.0610366, Relative SD: 6.26287
 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	200131R1_1	2.50	0.90	NO	40.92	1.000	1.61e4	1.29e6	2.55	2.2	0.996	bd
2	200131R1_2	5.00	0.89	NO	40.90	1.000	3.84e4	1.46e6	5.41	8.2	1.05	bd
3	200131R1_3	20.0	0.88	NO	40.90	1.000	1.46e5	1.41e6	21.2	5.9	1.03	bd
4	200131R1_4	100	0.86	NO	40.90	1.000	6.76e5	1.48e6	93.7	-6.3	0.914	MM
5	200131R1_5	400	0.87	NO	40.90	1.000	3.13e6	1.69e6	379	-5.2	0.924	bb
6	200131R1_6	3000	0.83	NO	40.92	1.000	2.97e7	2.14e6	2850	-4.8	0.927	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 0.801975

RRF SD: 0.0524877, Relative SD: 6.54481

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	200131R1_1	0.250	0.73	NO	24.85	1.001	3.48e3	1.69e6	0.257	2.8	0.824	bb
2	200131R1_2	0.500	0.74	NO	24.82	1.001	8.24e3	1.87e6	0.549	9.9	0.881	bb
3	200131R1_3	2.00	0.71	NO	24.82	1.001	3.25e4	1.95e6	2.08	4.0	0.834	bb
4	200131R1_4	10.0	0.73	NO	24.82	1.001	1.47e5	1.92e6	9.50	-5.0	0.762	bb
5	200131R1_5	40.0	0.74	NO	24.81	1.001	5.87e5	1.96e6	37.3	-6.7	0.748	bb
6	200131R1_6	300	0.74	NO	24.82	1.001	5.37e6	2.35e6	285	-4.9	0.763	bb

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

Response Factor: 0.907368

RRF SD: 0.0556686, Relative SD: 6.13518

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	200131R1_1	1.25	1.54	NO	29.39	1.000	1.54e4	1.46e6	1.16	-7.1	0.843	MM
2	200131R1_2	2.50	1.49	NO	29.35	1.000	4.02e4	1.66e6	2.66	6.5	0.967	bb
3	200131R1_3	10.0	1.55	NO	29.35	1.000	1.82e5	1.85e6	10.8	8.5	0.984	bb
4	200131R1_4	50.0	1.54	NO	29.37	1.000	7.66e5	1.72e6	49.2	-1.7	0.892	bb
5	200131R1_5	200	1.53	NO	29.34	1.000	3.44e6	1.96e6	193	-3.5	0.875	bb
6	200131R1_6	1500	1.52	NO	29.37	1.000	3.24e7	2.45e6	1460	-2.7	0.883	bb

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

Response Factor: 0.951581

RRF SD: 0.0710528, Relative SD: 7.46682

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	200131R1_1	1.25	1.39	NO	30.36	1.000	1.52e4	1.40e6	1.14	-9.0	0.866	bb
2	200131R1_2	2.50	1.49	NO	30.33	1.000	4.18e4	1.60e6	2.74	9.7	1.04	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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	200131R1_3	10.0	1.52	NO	30.33	1.000	1.83e5	1.77e6	10.9	8.5	1.03	bb
4	200131R1_4	50.0	1.52	NO	30.33	1.000	7.42e5	1.63e6	48.0	-4.1	0.913	bb
5	200131R1_5	200	1.52	NO	30.32	1.000	3.55e6	1.92e6	195	-2.7	0.926	bb
6	200131R1_6	1500	1.53	NO	30.33	1.000	3.27e7	2.35e6	1460	-2.5	0.928	bb

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

Response Factor: 0.862294

RRF SD: 0.0432122, Relative SD: 5.0113

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	200131R1_1	1.25	1.16	NO	33.13	1.000	1.04e4	9.82e5	1.22	-2.1	0.844	MM
2	200131R1_2	2.50	1.16	NO	33.10	1.000	2.37e4	1.03e6	2.66	6.4	0.917	bd
3	200131R1_3	10.0	1.18	NO	33.11	1.000	1.05e5	1.14e6	10.6	6.5	0.918	bd
4	200131R1_4	50.0	1.16	NO	33.13	1.000	4.53e5	1.09e6	48.4	-3.3	0.834	dd
5	200131R1_5	200	1.16	NO	33.10	1.001	2.04e6	1.23e6	192	-4.1	0.827	bd
6	200131R1_6	1500	1.16	NO	33.12	1.000	1.94e7	1.55e6	1450	-3.4	0.833	bd

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

Response Factor: 0.841382

RRF SD: 0.0466581, Relative SD: 5.54541

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	200131R1_1	1.25	1.21	NO	33.26	1.001	1.06e4	1.07e6	1.17	-6.2	0.789	MM
2	200131R1_2	2.50	1.19	NO	33.23	1.001	2.67e4	1.18e6	2.69	7.5	0.904	MM
3	200131R1_3	10.0	1.15	NO	33.24	1.001	1.15e5	1.29e6	10.6	6.3	0.894	db
4	200131R1_4	50.0	1.16	NO	33.24	1.000	5.01e5	1.23e6	48.3	-3.3	0.813	db
5	200131R1_5	200	1.15	NO	33.22	1.000	2.41e6	1.46e6	196	-1.9	0.825	db
6	200131R1_6	1500	1.16	NO	33.24	1.000	2.16e7	1.75e6	1470	-2.3	0.822	db

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 0.898194

RRF SD: 0.0533025, Relative SD: 5.9344

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	200131R1_1	1.25	1.07	NO	33.84	1.000	1.01e4	9.62e5	1.17	-6.1	0.844	bb
2	200131R1_2	2.50	1.21	NO	33.81	1.000	2.55e4	1.06e6	2.67	6.7	0.958	bb
3	200131R1_3	10.0	1.14	NO	33.82	1.001	1.14e5	1.17e6	10.8	8.3	0.972	bb
4	200131R1_4	50.0	1.16	NO	33.82	1.000	4.82e5	1.11e6	48.4	-3.3	0.869	bb
5	200131R1_5	200	1.17	NO	33.80	1.000	2.21e6	1.27e6	194	-2.8	0.873	bb
6	200131R1_6	1500	1.17	NO	33.82	1.000	2.08e7	1.59e6	1460	-2.8	0.873	bb

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

Response Factor: 0.857779

RRF SD: 0.0530165, Relative SD: 6.18067

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	200131R1_1	1.25	1.12	NO	34.74	1.000	9.51e3	8.96e5	1.24	-1.0	0.849	bb
2	200131R1_2	2.50	1.18	NO	34.71	1.000	2.15e4	9.11e5	2.76	10.2	0.946	bb
3	200131R1_3	10.0	1.17	NO	34.72	1.001	8.71e4	9.71e5	10.5	4.6	0.897	MM
4	200131R1_4	50.0	1.15	NO	34.72	1.000	3.90e5	9.57e5	47.6	-4.9	0.816	bb
5	200131R1_5	200	1.16	NO	34.70	1.000	1.74e6	1.06e6	191	-4.6	0.818	bb
6	200131R1_6	1500	1.17	NO	34.72	1.000	1.68e7	1.37e6	1430	-4.4	0.820	bb

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

Response Factor: 0.851072

RRF SD: 0.0458765, Relative SD: 5.39044

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	200131R1_1	1.25	0.94	NO	36.48	1.000	7.60e3	7.37e5	1.21	-3.0	0.826	bb
2	200131R1_2	2.50	0.99	NO	36.47	1.001	1.79e4	7.82e5	2.70	7.9	0.918	bd

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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	200131R1_3	10.0	0.96	NO	36.46	1.000	7.21e4	8.00e5	10.6	5.9	0.901	bd
4	200131R1_4	50.0	0.96	NO	36.47	1.001	3.29e5	8.01e5	48.2	-3.5	0.821	bb
5	200131R1_5	200	0.97	NO	36.45	1.000	1.46e6	8.88e5	193	-3.4	0.822	bb
6	200131R1_6	1500	0.96	NO	36.47	1.000	1.37e7	1.12e6	1440	-3.9	0.818	bb

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

Response Factor: 0.979894
 RRF SD: 0.0488516, Relative SD: 4.9854
 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	200131R1_1	1.25	0.96	NO	38.50	1.000	5.89e3	5.04e5	1.19	-4.7	0.934	MM
2	200131R1_2	2.50	0.97	NO	38.48	1.000	1.47e4	5.63e5	2.66	6.4	1.04	bb
3	200131R1_3	10.0	0.96	NO	38.49	1.000	5.91e4	5.68e5	10.6	6.2	1.04	bb
4	200131R1_4	50.0	0.97	NO	38.50	1.000	2.74e5	5.80e5	48.2	-3.6	0.945	bb
5	200131R1_5	200	0.96	NO	38.48	1.000	1.25e6	6.58e5	194	-2.9	0.952	bb
6	200131R1_6	1500	0.96	NO	38.50	1.000	1.20e7	8.31e5	1480	-1.5	0.966	bb

Compound name: OCDF

Response Factor: 0.805548
 RRF SD: 0.0471476, Relative SD: 5.85286
 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	200131R1_1	2.50	0.85	NO	41.10	1.000	1.39e4	1.44e6	2.40	-4.0	0.773	bb
2	200131R1_2	5.00	0.87	NO	41.08	1.000	3.50e4	1.59e6	5.46	9.2	0.880	bb
3	200131R1_3	20.0	0.87	NO	41.09	1.000	1.37e5	1.61e6	21.1	5.5	0.850	MM
4	200131R1_4	100	0.85	NO	41.10	1.000	6.45e5	1.67e6	95.6	-4.4	0.770	bb
5	200131R1_5	400	0.86	NO	41.09	1.000	2.92e6	1.87e6	388	-3.1	0.781	bb
6	200131R1_6	3000	0.86	NO	41.10	1.000	2.81e7	2.40e6	2900	-3.3	0.779	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 1.19852

RRF SD: 0.0939444, Relative SD: 7.83835

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	200131R1_1	100	0.79	NO	25.72	1.026	1.21e6	9.30e5	109	9.0	1.31	bb
2	200131R1_2	100	0.79	NO	25.67	1.026	1.37e6	1.27e6	90.2	-9.8	1.08	bb
3	200131R1_3	100	0.79	NO	25.67	1.026	1.44e6	1.31e6	91.3	-8.7	1.09	bb
4	200131R1_4	100	0.79	NO	25.67	1.026	1.42e6	1.19e6	99.9	-0.1	1.20	bb
5	200131R1_5	100	0.80	NO	25.66	1.026	1.45e6	1.18e6	103	2.7	1.23	bb
6	200131R1_6	100	0.78	NO	25.69	1.026	1.75e6	1.37e6	107	6.9	1.28	bb

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

Response Factor: 0.966657

RRF SD: 0.113301, Relative SD: 11.7209

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	200131R1_1	100	0.64	NO	30.65	1.222	9.52e5	9.30e5	106	5.9	1.02	bb
2	200131R1_2	100	0.63	NO	30.61	1.223	1.05e6	1.27e6	85.4	-14.6	0.826	bb
3	200131R1_3	100	0.64	NO	30.62	1.223	1.14e6	1.31e6	90.0	-10.0	0.870	bb
4	200131R1_4	100	0.65	NO	30.62	1.223	1.09e6	1.19e6	95.0	-5.0	0.918	bb
5	200131R1_5	100	0.64	NO	30.61	1.223	1.23e6	1.18e6	108	7.9	1.04	bb
6	200131R1_6	100	0.64	NO	30.62	1.223	1.53e6	1.37e6	116	15.8	1.12	bb

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

Response Factor: 0.873915

RRF SD: 0.0797425, Relative SD: 9.12474

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	200131R1_1	100	1.26	NO	33.99	1.014	7.72e5	8.41e5	105	5.1	0.918	bd
2	200131R1_2	100	1.27	NO	33.96	1.014	8.79e5	1.13e6	89.1	-10.9	0.778	bd

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	100	1.28	NO	33.97	1.014	9.69e5	1.23e6	90.5	-9.5	0.791	bd
4	200131R1_4	100	1.26	NO	33.98	1.014	9.08e5	1.05e6	98.8	-1.2	0.863	bd
5	200131R1_5	100	1.27	NO	33.96	1.014	1.04e6	1.15e6	104	3.8	0.907	bd
6	200131R1_6	100	1.28	NO	33.98	1.014	1.30e6	1.32e6	113	12.8	0.986	bd

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

Response Factor: 1.04579
 RRF SD: 0.10317, Relative SD: 9.86527
 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	200131R1_1	100	1.24	NO	34.09	1.017	9.31e5	8.41e5	106	5.9	1.11	db
2	200131R1_2	100	1.25	NO	34.06	1.017	1.05e6	1.13e6	88.6	-11.4	0.927	db
3	200131R1_3	100	1.25	NO	34.07	1.017	1.13e6	1.23e6	88.2	-11.8	0.923	db
4	200131R1_4	100	1.25	NO	34.07	1.017	1.11e6	1.05e6	101	0.9	1.05	db
5	200131R1_5	100	1.26	NO	34.06	1.017	1.24e6	1.15e6	103	3.3	1.08	db
6	200131R1_6	100	1.27	NO	34.07	1.017	1.56e6	1.32e6	113	13.1	1.18	db

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

Response Factor: 0.974375
 RRF SD: 0.10254, Relative SD: 10.5236
 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	200131R1_1	100	1.26	NO	34.37	1.025	9.08e5	8.41e5	111	10.8	1.08	bb
2	200131R1_2	100	1.24	NO	34.34	1.025	9.77e5	1.13e6	88.8	-11.2	0.865	bb
3	200131R1_3	100	1.23	NO	34.35	1.025	1.04e6	1.23e6	87.1	-12.9	0.848	bb
4	200131R1_4	100	1.26	NO	34.35	1.025	1.02e6	1.05e6	99.4	-0.6	0.968	bb
5	200131R1_5	100	1.22	NO	34.33	1.025	1.15e6	1.15e6	102	2.1	0.995	bb
6	200131R1_6	100	1.27	NO	34.35	1.025	1.44e6	1.32e6	112	11.8	1.09	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 0.747228

RRF SD: 0.0868418, Relative SD: 11.6219

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	200131R1_1	100	1.04	NO	37.91	1.131	7.05e5	8.41e5	112	12.3	0.839	bb
2	200131R1_2	100	1.03	NO	37.88	1.131	7.60e5	1.13e6	90.0	-10.0	0.673	bb
3	200131R1_3	100	1.05	NO	37.88	1.131	7.62e5	1.23e6	83.2	-16.8	0.622	bb
4	200131R1_4	100	1.05	NO	37.88	1.131	7.83e5	1.05e6	99.7	-0.3	0.745	bb
5	200131R1_5	100	1.05	NO	37.88	1.131	8.87e5	1.15e6	103	3.2	0.771	bb
6	200131R1_6	100	1.03	NO	37.88	1.131	1.10e6	1.32e6	112	11.6	0.834	bb

Compound name: 13C-OCDD

Response Factor: 0.706533

RRF SD: 0.0850665, Relative SD: 12.04

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	200131R1_1	200	0.89	NO	40.90	1.220	1.29e6	8.41e5	218	8.9	0.770	bb
2	200131R1_2	200	0.92	NO	40.88	1.221	1.46e6	1.13e6	183	-8.6	0.646	bd
3	200131R1_3	200	0.90	NO	40.89	1.221	1.41e6	1.23e6	163	-18.5	0.575	bb
4	200131R1_4	200	0.90	NO	40.90	1.221	1.48e6	1.05e6	199	-0.4	0.704	bb
5	200131R1_5	200	0.86	NO	40.89	1.221	1.69e6	1.15e6	208	4.0	0.735	bb
6	200131R1_6	200	0.84	NO	40.90	1.221	2.14e6	1.32e6	229	14.6	0.809	bb

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

Response Factor: 1.06529

RRF SD: 0.0915828, Relative SD: 8.59701

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	200131R1_1	100	0.77	NO	24.84	0.990	1.69e6	1.42e6	112	11.8	1.19	bb
2	200131R1_2	100	0.78	NO	24.79	0.990	1.87e6	1.95e6	89.9	-10.1	0.958	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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	200131R1_3	100	0.76	NO	24.79	0.990	1.95e6	2.03e6	90.3	-9.7	0.962	bb
4	200131R1_4	100	0.77	NO	24.79	0.990	1.92e6	1.80e6	100	0.3	1.07	bb
5	200131R1_5	100	0.77	NO	24.78	0.990	1.96e6	1.80e6	103	2.6	1.09	bb
6	200131R1_6	100	0.77	NO	24.81	0.990	2.35e6	2.10e6	105	5.1	1.12	bb

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

Response Factor: 1.00172

RRF SD: 0.117905, Relative SD: 11.7703

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	200131R1_1	100	1.57	NO	29.37	1.171	1.46e6	1.42e6	103	3.0	1.03	bb
2	200131R1_2	100	1.56	NO	29.34	1.172	1.66e6	1.95e6	84.9	-15.1	0.851	bb
3	200131R1_3	100	1.61	NO	29.34	1.172	1.85e6	2.03e6	91.2	-8.8	0.914	bb
4	200131R1_4	100	1.59	NO	29.35	1.173	1.72e6	1.80e6	95.2	-4.8	0.953	bb
5	200131R1_5	100	1.60	NO	29.32	1.172	1.96e6	1.80e6	109	9.1	1.09	bb
6	200131R1_6	100	1.59	NO	29.35	1.172	2.45e6	2.10e6	117	16.5	1.17	bb

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

Response Factor: 0.961692

RRF SD: 0.117094, Relative SD: 12.1758

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	200131R1_1	100	1.59	NO	30.35	1.210	1.40e6	1.42e6	103	2.7	0.988	db
2	200131R1_2	100	1.59	NO	30.32	1.211	1.60e6	1.95e6	85.2	-14.8	0.820	db
3	200131R1_3	100	1.56	NO	30.32	1.211	1.77e6	2.03e6	90.8	-9.2	0.873	bb
4	200131R1_4	100	1.61	NO	30.32	1.211	1.63e6	1.80e6	93.8	-6.2	0.902	db
5	200131R1_5	100	1.59	NO	30.30	1.211	1.92e6	1.80e6	111	10.9	1.07	db
6	200131R1_6	100	1.62	NO	30.33	1.211	2.35e6	2.10e6	117	16.5	1.12	db

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 1.0492

RRF SD: 0.111678, Relative SD: 10.6441

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	200131R1_1	100	0.51	NO	33.13	0.988	9.82e5	8.41e5	111	11.3	1.17	bd
2	200131R1_2	100	0.50	NO	33.09	0.988	1.03e6	1.13e6	87.3	-12.7	0.915	bd
3	200131R1_3	100	0.51	NO	33.10	0.988	1.14e6	1.23e6	88.8	-11.2	0.932	bd
4	200131R1_4	100	0.50	NO	33.11	0.988	1.09e6	1.05e6	98.5	-1.5	1.03	bd
5	200131R1_5	100	0.51	NO	33.08	0.988	1.23e6	1.15e6	102	2.0	1.07	bd
6	200131R1_6	100	0.50	NO	33.11	0.989	1.55e6	1.32e6	112	12.1	1.18	bd

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

Response Factor: 1.18988

RRF SD: 0.120357, Relative SD: 10.1151

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	200131R1_1	100	0.51	NO	33.24	0.992	1.07e6	8.41e5	107	7.4	1.28	db
2	200131R1_2	100	0.50	NO	33.21	0.992	1.18e6	1.13e6	88.0	-12.0	1.05	db
3	200131R1_3	100	0.51	NO	33.22	0.992	1.29e6	1.23e6	88.2	-11.8	1.05	db
4	200131R1_4	100	0.51	NO	33.23	0.992	1.23e6	1.05e6	98.5	-1.5	1.17	db
5	200131R1_5	100	0.51	NO	33.21	0.992	1.46e6	1.15e6	107	6.7	1.27	db
6	200131R1_6	100	0.51	NO	33.23	0.992	1.75e6	1.32e6	111	11.2	1.32	db

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

Response Factor: 1.06623

RRF SD: 0.103589, Relative SD: 9.71549

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	200131R1_1	100	0.51	NO	33.83	1.009	9.62e5	8.41e5	107	7.2	1.14	bb
2	200131R1_2	100	0.50	NO	33.80	1.009	1.06e6	1.13e6	88.4	-11.6	0.943	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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	200131R1_3	100	0.51	NO	33.79	1.009	1.17e6	1.23e6	89.3	-10.7	0.953	bb
4	200131R1_4	100	0.51	NO	33.81	1.009	1.11e6	1.05e6	99.0	-1.0	1.06	bb
5	200131R1_5	100	0.51	NO	33.78	1.009	1.27e6	1.15e6	103	3.4	1.10	bb
6	200131R1_6	100	0.50	NO	33.81	1.009	1.59e6	1.32e6	113	12.6	1.20	bb

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

Response Factor: 0.922357

RRF SD: 0.112781, Relative SD: 12.2275

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	200131R1_1	100	0.52	NO	34.73	1.036	8.96e5	8.41e5	115	15.5	1.07	bd
2	200131R1_2	100	0.50	NO	34.70	1.036	9.11e5	1.13e6	87.5	-12.5	0.807	bb
3	200131R1_3	100	0.50	NO	34.70	1.036	9.71e5	1.23e6	85.9	-14.1	0.793	bb
4	200131R1_4	100	0.51	NO	34.71	1.036	9.57e5	1.05e6	98.7	-1.3	0.910	bb
5	200131R1_5	100	0.50	NO	34.69	1.036	1.06e6	1.15e6	100	0.1	0.923	bb
6	200131R1_6	100	0.52	NO	34.71	1.036	1.37e6	1.32e6	112	12.3	1.04	bb

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

Response Factor: 0.767165

RRF SD: 0.0861255, Relative SD: 11.2265

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	200131R1_1	100	0.44	NO	36.47	1.088	7.37e5	8.41e5	114	14.2	0.876	bb
2	200131R1_2	100	0.43	NO	36.44	1.088	7.82e5	1.13e6	90.2	-9.8	0.692	bb
3	200131R1_3	100	0.42	NO	36.45	1.088	8.00e5	1.23e6	85.1	-14.9	0.653	bb
4	200131R1_4	100	0.43	NO	36.45	1.088	8.01e5	1.05e6	99.3	-0.7	0.762	bb
5	200131R1_5	100	0.44	NO	36.44	1.088	8.88e5	1.15e6	101	0.6	0.772	bb
6	200131R1_6	100	0.44	NO	36.46	1.088	1.12e6	1.32e6	111	10.6	0.848	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.552323

RRF SD: 0.0621028, Relative SD: 11.2439

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	200131R1_1	100	0.44	NO	38.50	1.149	5.04e5	8.41e5	109	8.5	0.600	MM
2	200131R1_2	100	0.43	NO	38.47	1.149	5.63e5	1.13e6	90.3	-9.7	0.499	bb
3	200131R1_3	100	0.44	NO	38.48	1.149	5.68e5	1.23e6	83.9	-16.1	0.464	bb
4	200131R1_4	100	0.43	NO	38.48	1.148	5.80e5	1.05e6	99.8	-0.2	0.551	bb
5	200131R1_5	100	0.43	NO	38.47	1.149	6.58e5	1.15e6	104	3.6	0.572	bb
6	200131R1_6	100	0.43	NO	38.49	1.149	8.31e5	1.32e6	114	13.9	0.629	bb

Compound name: 13C-OCDF

Response Factor: 0.78941

RRF SD: 0.0937006, Relative SD: 11.8697

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	200131R1_1	200	0.88	NO	41.10	1.226	1.44e6	8.41e5	217	8.5	0.856	bb
2	200131R1_2	200	0.86	NO	41.07	1.226	1.59e6	1.13e6	178	-10.8	0.704	bb
3	200131R1_3	200	0.84	NO	41.08	1.226	1.61e6	1.23e6	167	-16.6	0.658	bb
4	200131R1_4	200	0.87	NO	41.08	1.226	1.67e6	1.05e6	202	0.8	0.796	bb
5	200131R1_5	200	0.86	NO	41.07	1.227	1.87e6	1.15e6	206	2.8	0.812	bb
6	200131R1_6	200	0.87	NO	41.09	1.227	2.40e6	1.32e6	230	15.2	0.910	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.17626

RRF SD: 0.0677436, Relative SD: 5.75926

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	200131R1_1	0.250			25.74	1.026	2.61e3	9.30e5	0.239	-4.6	1.12	bb
2	200131R1_2	0.500			25.70	1.027	7.49e3	1.27e6	0.502	0.3	1.18	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard 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	200131R1_3	2.00			25.70	1.027	2.85e4	1.31e6	1.85	-7.7	1.09	bb
4	200131R1_4	10.0			25.70	1.027	1.40e5	1.19e6	10.0	0.4	1.18	bb
5	200131R1_5	40.0			25.69	1.027	5.71e5	1.18e6	41.0	2.6	1.21	bb
6	200131R1_6	200			25.70	1.026	3.51e6	1.37e6	218	8.9	1.28	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.78	NO	25.08	1.000	9.30e5	9.30e5	100	0.0	1.00	bb
2	200131R1_2	100	0.80	NO	25.03	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
3	200131R1_3	100	0.80	NO	25.03	1.000	1.31e6	1.31e6	100	0.0	1.00	bb
4	200131R1_4	100	0.80	NO	25.03	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	25.02	1.000	1.18e6	1.18e6	100	0.0	1.00	bb
6	200131R1_6	100	0.80	NO	25.05	1.000	1.37e6	1.37e6	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	200131R1_1	100	0.79	NO	23.42	1.000	1.42e6	1.42e6	100	0.0	1.00	bd
2	200131R1_2	100	0.79	NO	23.35	1.000	1.95e6	1.95e6	100	0.0	1.00	bb
3	200131R1_3	100	0.79	NO	23.37	1.000	2.03e6	2.03e6	100	0.0	1.00	bb
4	200131R1_4	100	0.79	NO	23.37	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	23.35	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
6	200131R1_6	100	0.79	NO	23.39	1.000	2.10e6	2.10e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard 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	200131R1_1	100	0.51	NO	33.52	1.000	8.41e5	8.41e5	100	0.0	1.00	bb
2	200131R1_2	100	0.51	NO	33.49	1.000	1.13e6	1.13e6	100	0.0	1.00	bb
3	200131R1_3	100	0.51	NO	33.50	1.000	1.23e6	1.23e6	100	0.0	1.00	bb
4	200131R1_4	100	0.51	NO	33.51	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
5	200131R1_5	100	0.51	NO	33.49	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
6	200131R1_6	100	0.51	NO	33.50	1.000	1.32e6	1.32e6	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:48 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:18:51 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

	Name	ID	Acq.Date	Acq.Time
1	200131R1_1	ST200131R1_1 1613 CS0 19L2302	31-Jan-20	16:48:41
2	200131R1_2	ST200131R1_2 1613 CS1 19L2303	31-Jan-20	17:37:04
3	200131R1_3	ST200131R1_3 1613 CS2 19L2304	31-Jan-20	18:23:19
4	200131R1_4	ST200131R1_4 1613 CS3 19L2305	31-Jan-20	19:10:18
5	200131R1_5	ST200131R1_5 1613 CS4 19L2306	31-Jan-20	19:57:17
6	200131R1_6	ST200131R1_6 1613 CS5 19L2307	31-Jan-20	20:44:23
7	200131R1_7	SOLVENT BLANK	31-Jan-20	21:31:31
8	200131R1_8	SS200131R1_1 1613 SSS 19L2308	31-Jan-20	22:18:30
9	200131R1_9	ST200131R1_7 1613 CS3 19I1604	31-Jan-20	23:05:36
10	200131R1_10	B0A0133-BS1 OPR 1	31-Jan-20	23:52:35
11	200131R1_11	B0A0226-BS1 OPR 10	01-Feb-20	00:39:35
12	200131R1_12	SOLVENT BLANK	01-Feb-20	01:26:32
13	200131R1_13	B0A0133-BLK1 Method Blank 1	01-Feb-20	02:13:32
14	200131R1_14	B0A0226-BLK1 Method Blank 10	01-Feb-20	03:00:32
15	200131R1_15	1904161-10RE1 PDI-046SC-A-02-03-191001 ...	01-Feb-20	03:47:38
16	200131R1_16	1904161-16RE1 PDI-066SC-A-06-07-191011 ...	01-Feb-20	04:34:37
17	200131R1_17	1904207-04RE1 PDI-076SC-A-05-06-191013 ...	01-Feb-20	05:21:38
18	200131R1_18	1903647-05@2X PDI-067SC-B-06-08-191010 ...	01-Feb-20	06:08:35
19	200131R1_19	1903647-02@10X PDI-067SC-B-00-02-19101...	01-Feb-20	06:55:34

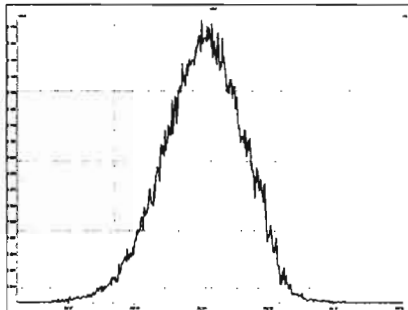
Experiment Calibration Report

MassLynx 4.1 SCN815

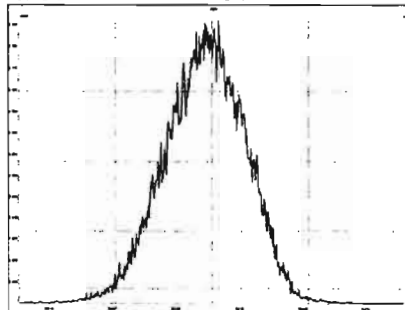
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:41:39 Pacific Standard Time

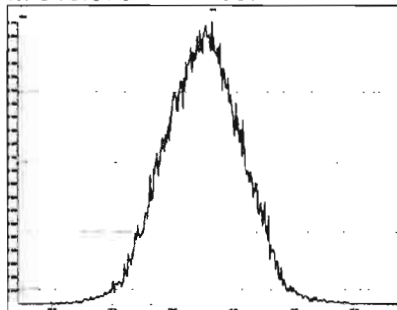
M 292.9824 R 10370



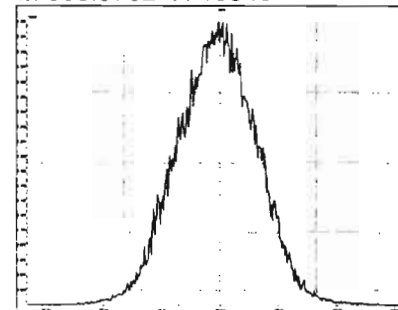
M 304.9824 R 10917



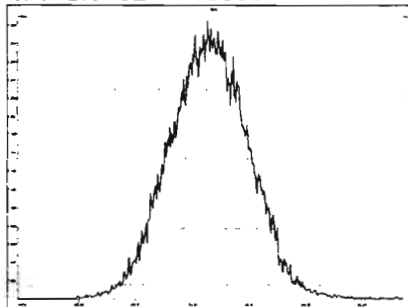
M 318.9792 R 10637



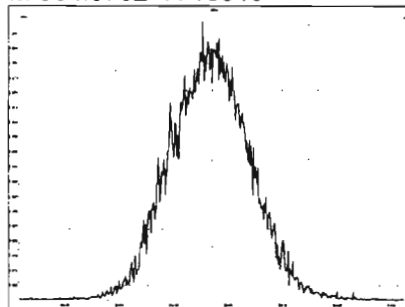
M 330.9792 R 10640



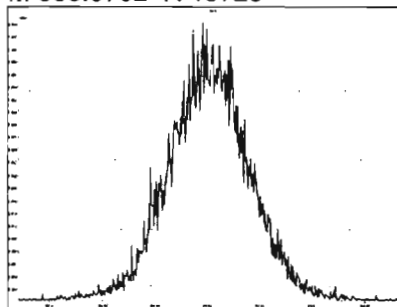
M 342.9792 R 10593



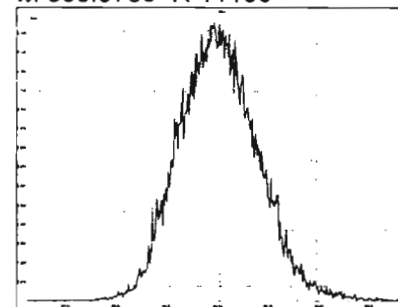
M 354.9792 R 10919



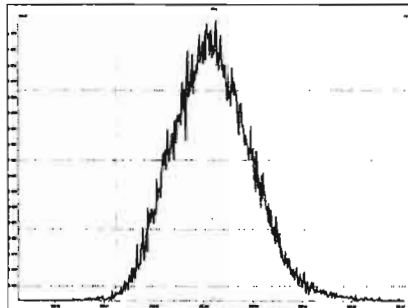
M 366.9792 R 10726



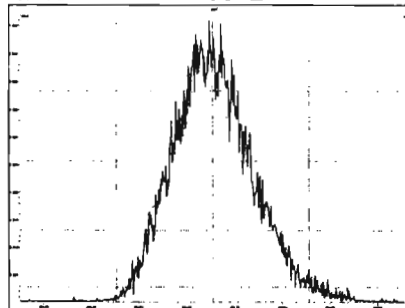
M 380.9760 R 11160



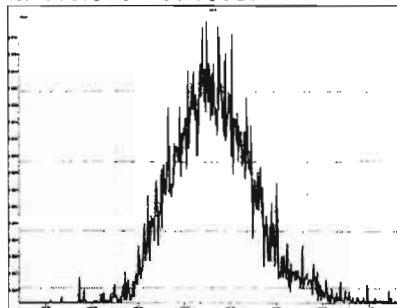
M 392.9760 R 11015



M 404.9760 R 10822



M 416.9760 R 10507



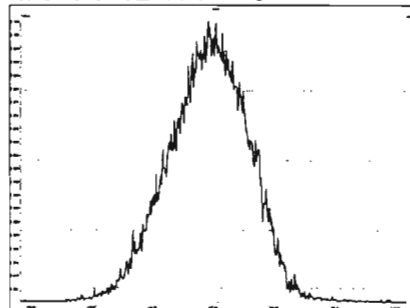
Experiment Calibration Report

MassLynx 4.1 SCN815

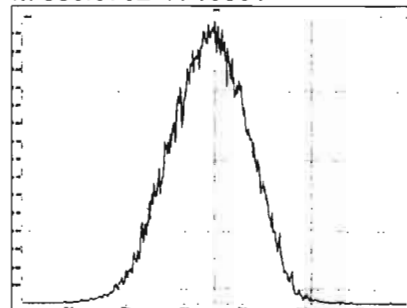
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:42:23 Pacific Standard Time

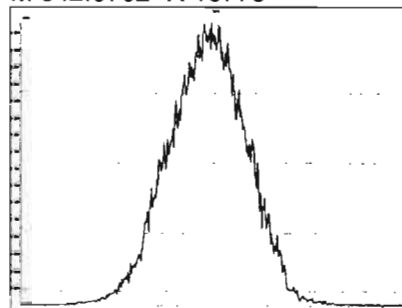
M 318.9792 R 11110



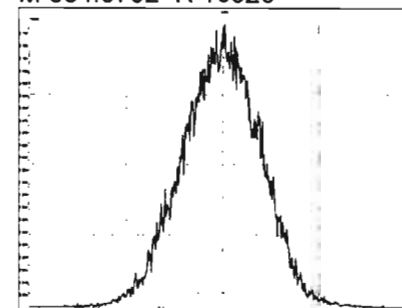
M 330.9792 R 10681



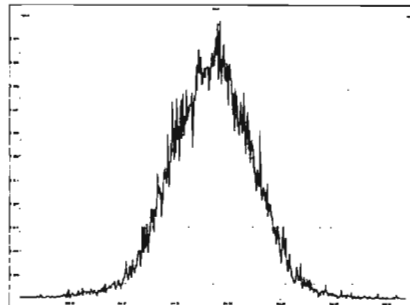
M 342.9792 R 10776



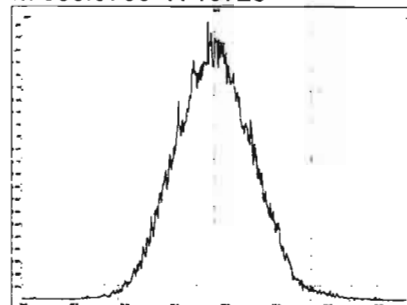
M 354.9792 R 10920



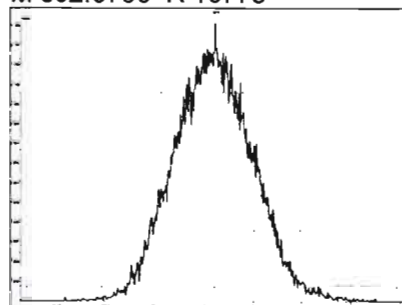
M 366.9792 R 10730



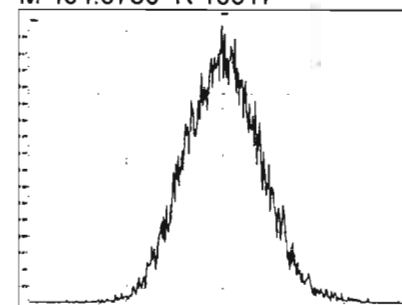
M 380.9760 R 10729



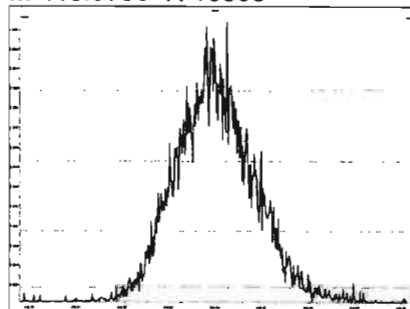
M 392.9760 R 10778



M 404.9760 R 10917



M 416.9760 R 10503



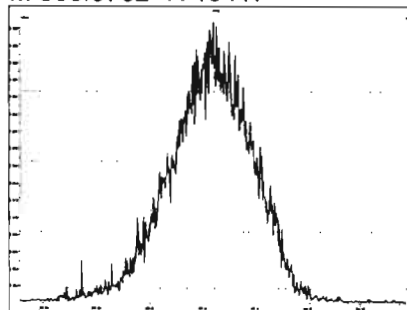
Experiment Calibration Report

MassLynx 4.1 SCN815

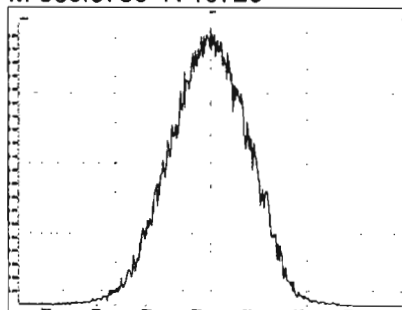
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:43:30 Pacific Standard Time

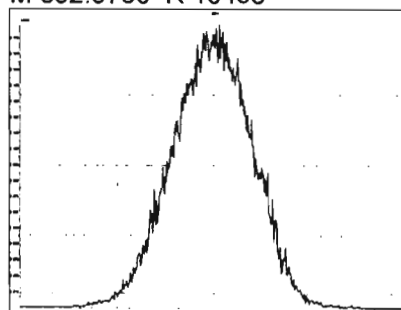
M 366.9792 R 10417



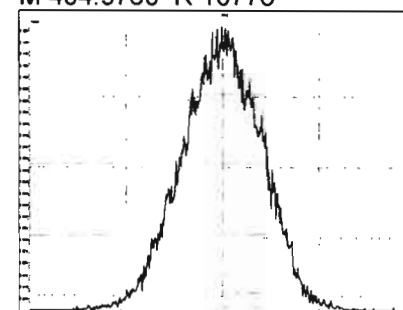
M 380.9760 R 10729



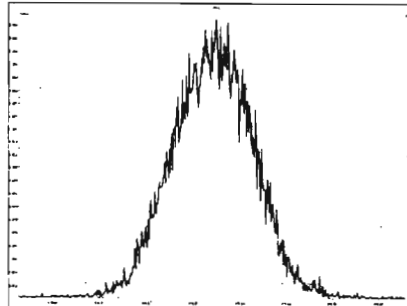
M 392.9760 R 10458



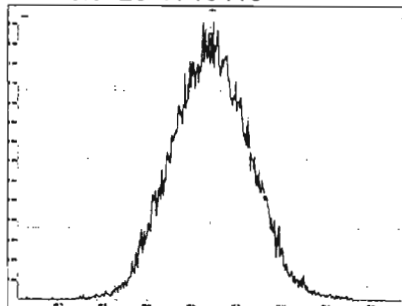
M 404.9760 R 10776



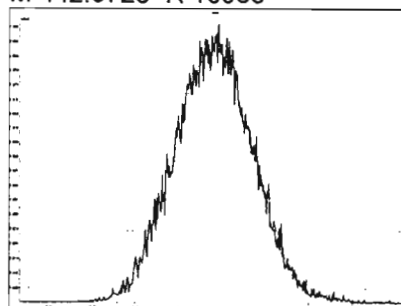
M 416.9760 R 10728



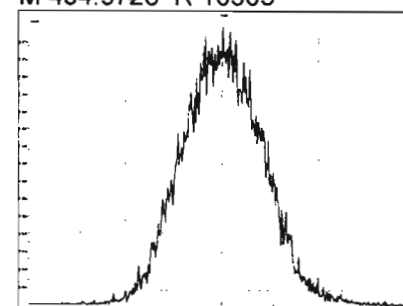
M 430.9728 R 10418



M 442.9728 R 10965



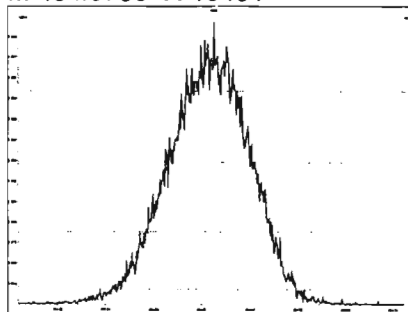
M 454.9728 R 10503



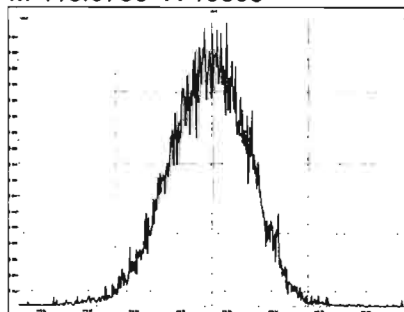
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:44:27 Pacific Standard Time

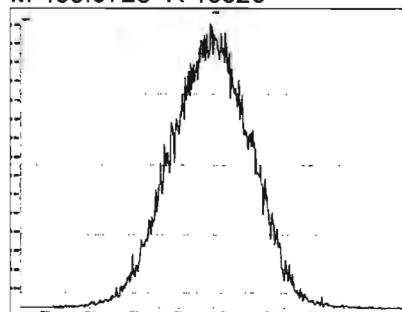
M 404.9760 R 10461



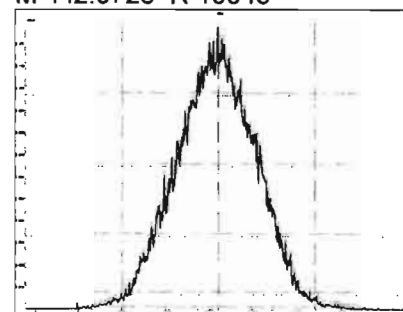
M 416.9760 R 10503



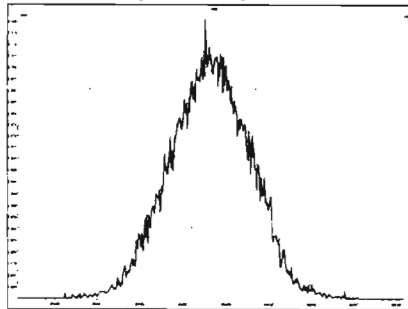
M 430.9728 R 10820



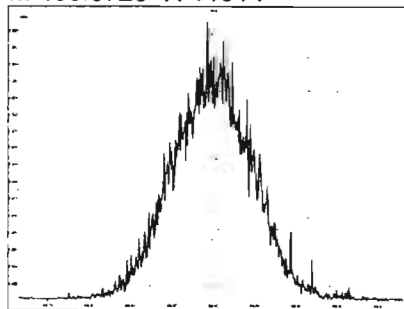
M 442.9728 R 10545



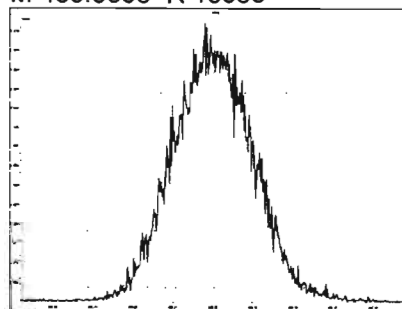
M 454.9728 R 10637



M 466.9728 R 11014



M 480.9696 R 10965



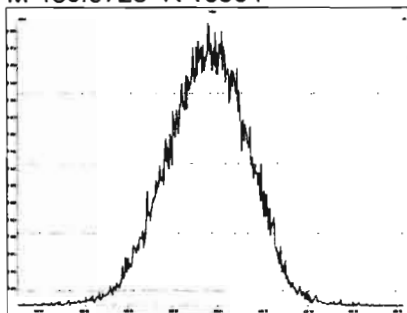
Experiment Calibration Report

MassLynx 4.1 SCN815

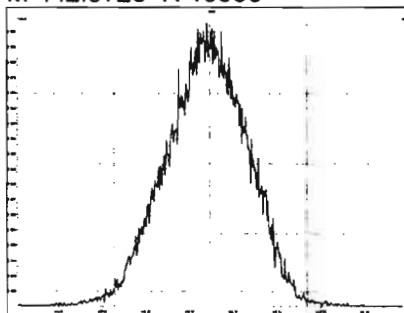
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:45:52 Pacific Standard Time

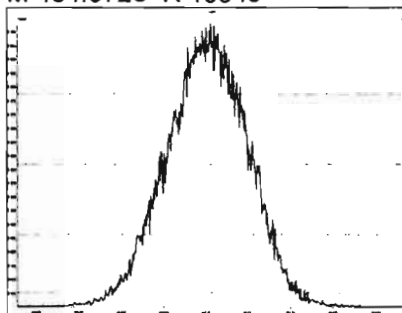
M 430.9728 R 10504



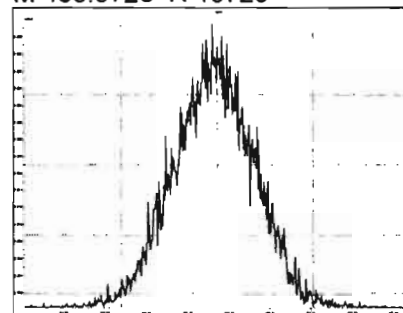
M 442.9728 R 10550



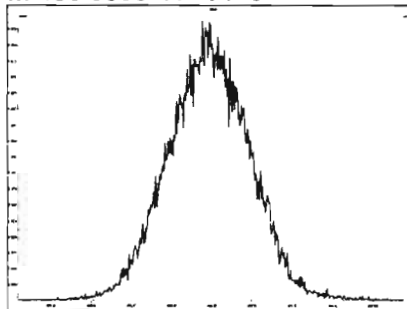
M 454.9728 R 10549



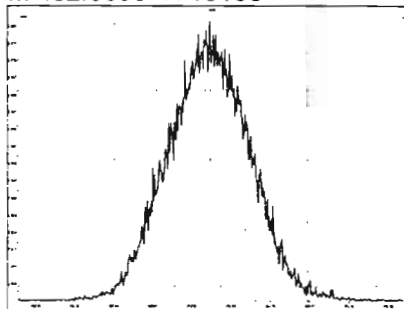
M 466.9728 R 10729



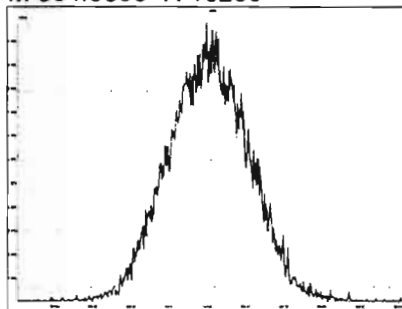
M 480.9696 R 10415



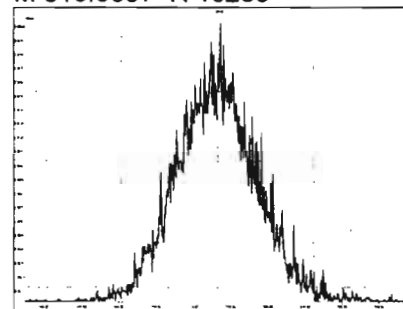
M 492.9696 R 10163



M 504.9696 R 10290



M 516.9697 R 10286



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:18:19 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.72
2	2 1,2,8,9-TCDD (Last)	26.66
3	3 1,2,4,7,9-PeCDD (First)	28.44
4	4 1,2,3,8,9-PeCDD (Last)	31.02
5	5 1,2,4,6,7,9-HxCDD (First)	32.51
6	6 1,2,3,7,8,9-HxCDD (Last)	34.37
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.85
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.90
9	9 1,3,6,8-TCDF (First)	19.63
10	10 1,2,8,9-TCDF (Last)	26.81
11	11 1,3,4,6,8-PeCDF (First)	26.77
12	12 1,2,3,8,9-PeCDF (Last)	31.26
13	13 1,2,3,4,6,8-HxCDF (First)	31.95
14	14 1,2,3,7,8,9-HxCDF (Last)	34.72
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.47
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.50

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:18:19 AM Pacific Standard Time

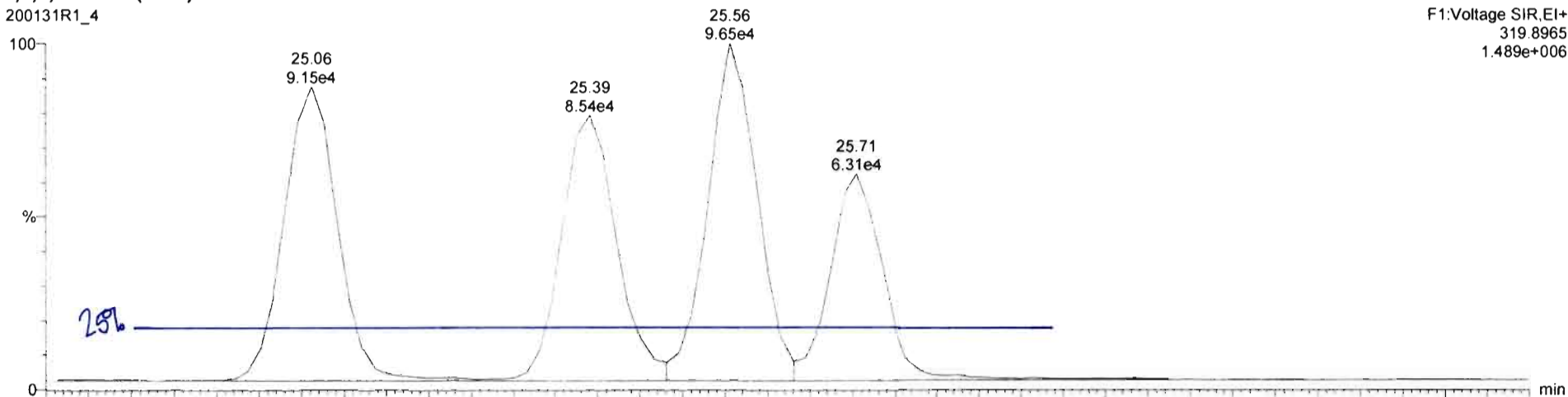
Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

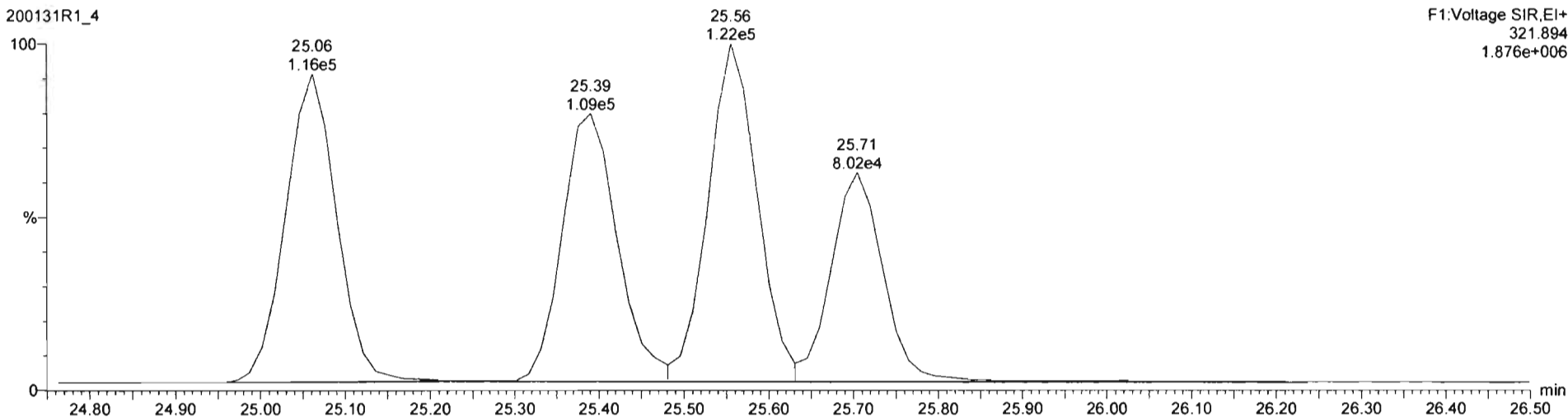
200131R1_4

F1:Voltage SIR,EI+
319.8965
1.489e+006



200131R1_4

F1:Voltage SIR,EI+
321.894
1.876e+006



Dataset: Untitled

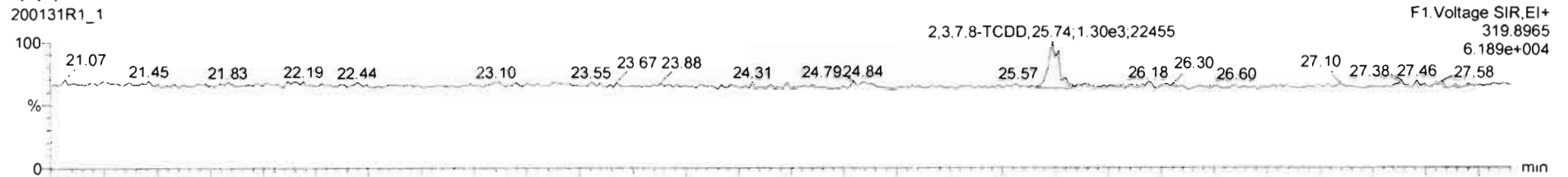
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: 02 Feb 2020 11:06:20

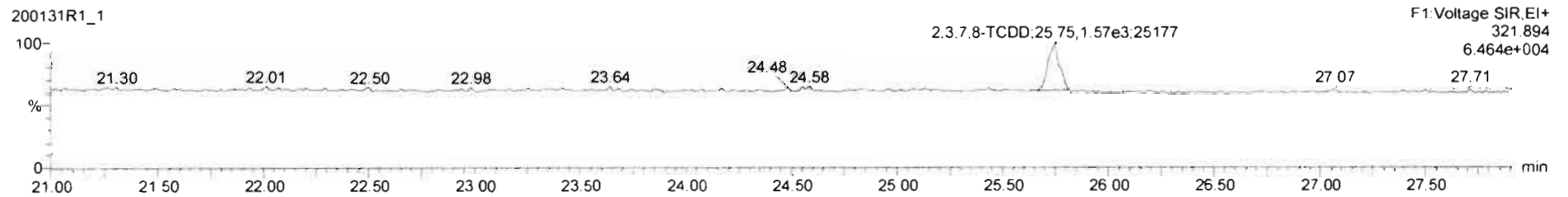
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200131R1_1

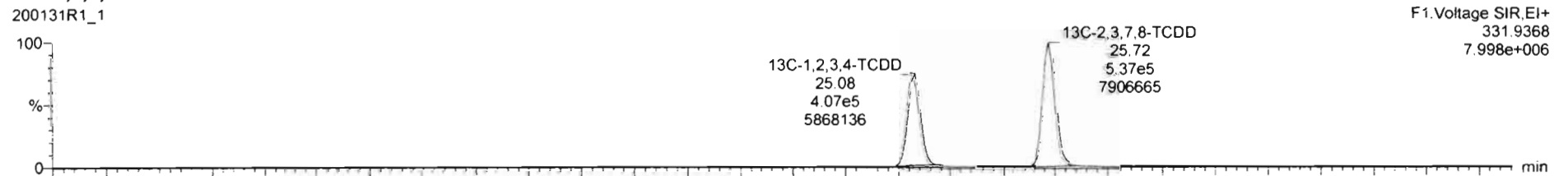


200131R1_1

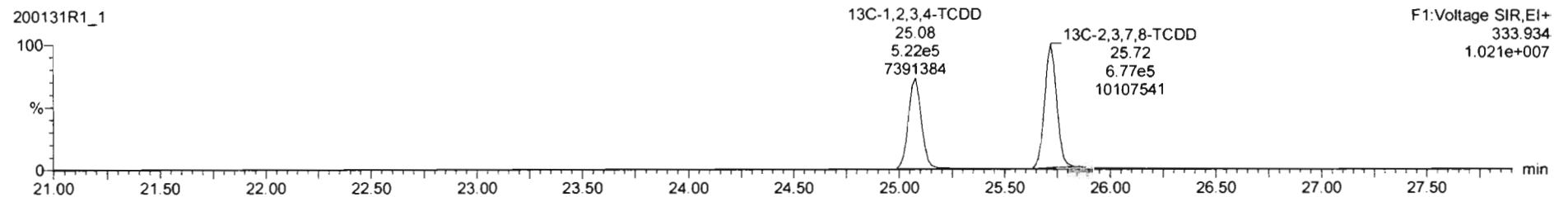


13C-2,3,7,8-TCDD

200131R1_1



200131R1_1



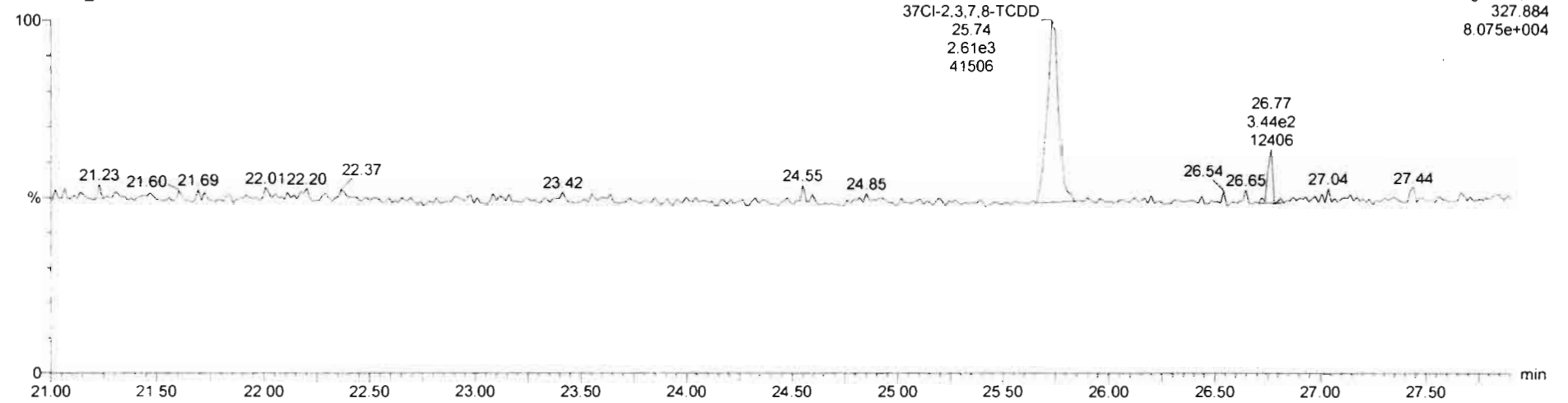
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

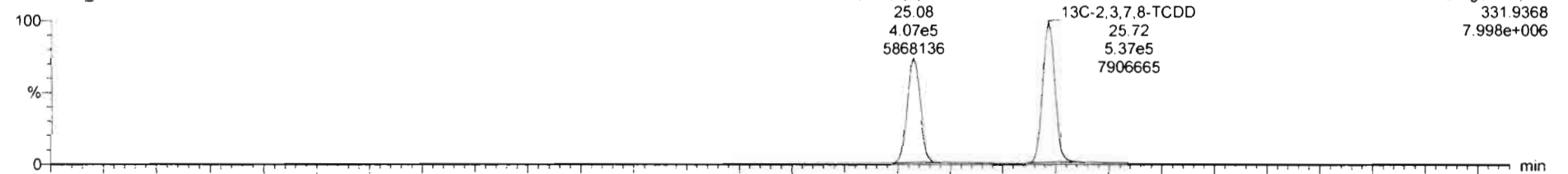
37Cl-2,3,7,8-TCDD

200131R1_1

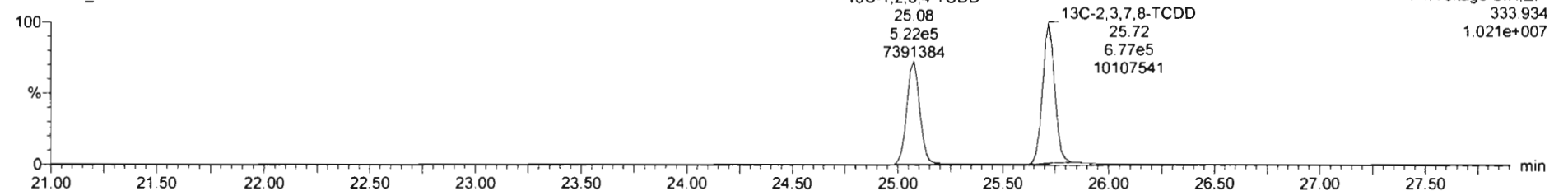


13C-1,2,3,4-TCDD

200131R1_1



200131R1_1



Dataset: Untitled

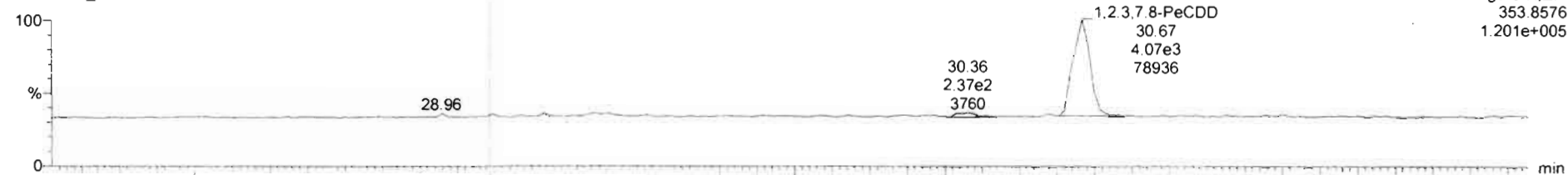
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

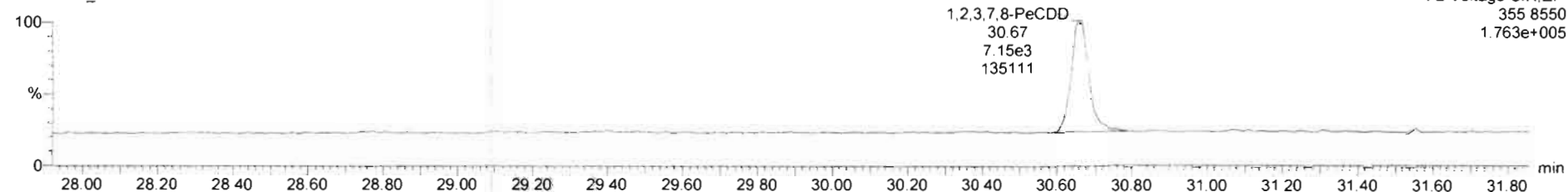
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200131R1_1

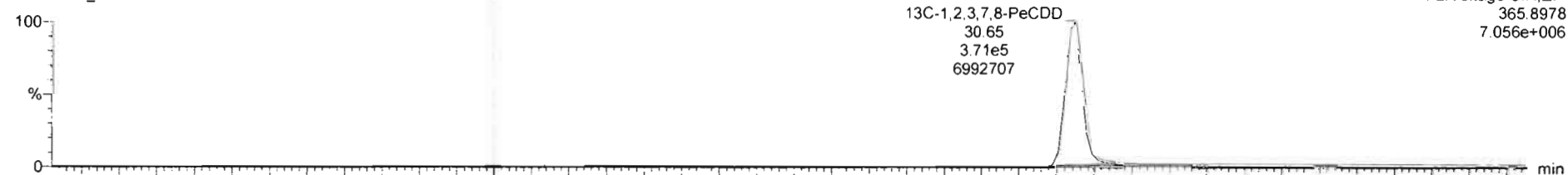


200131R1_1

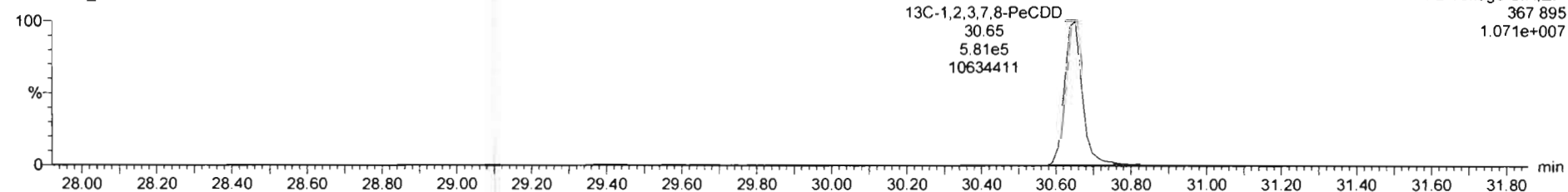


13C-1,2,3,7,8-PeCDD

200131R1_1



200131R1_1



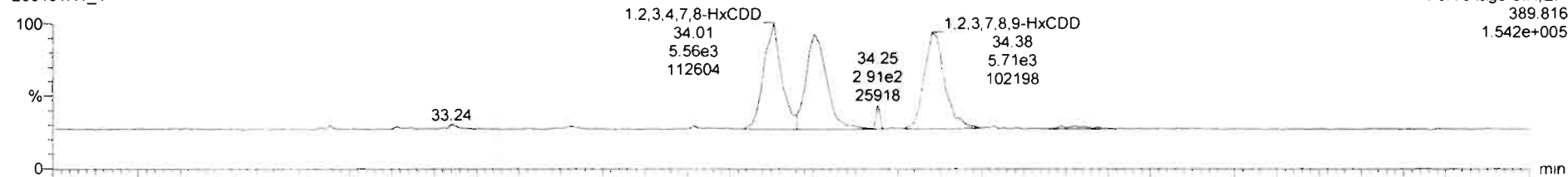
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

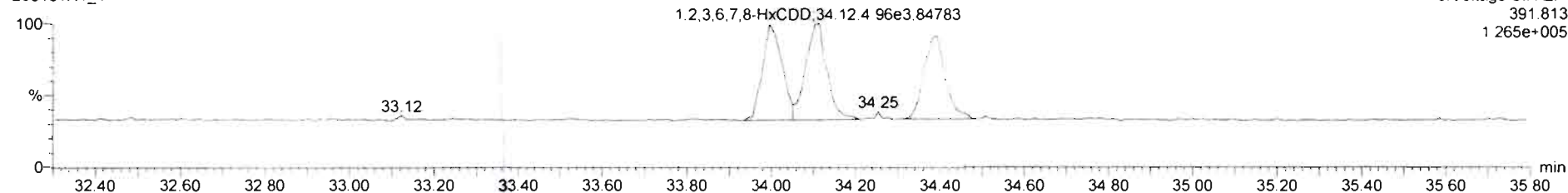
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200131R1_1

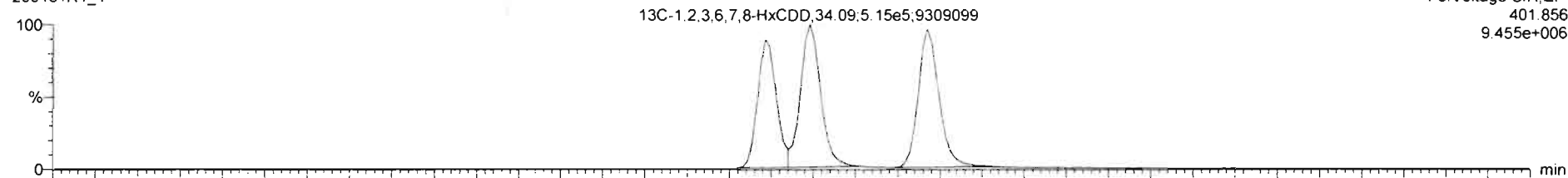


200131R1_1

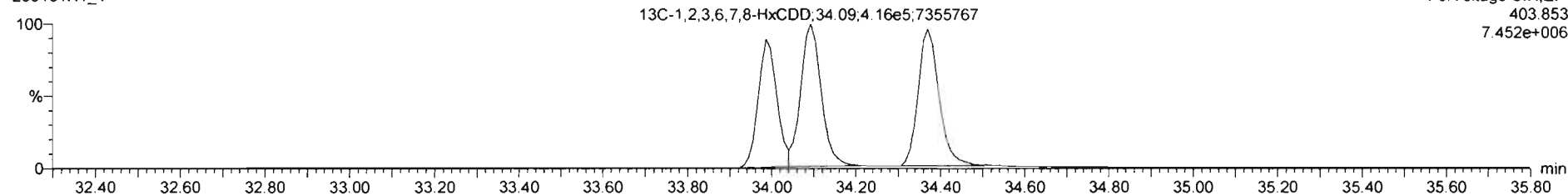


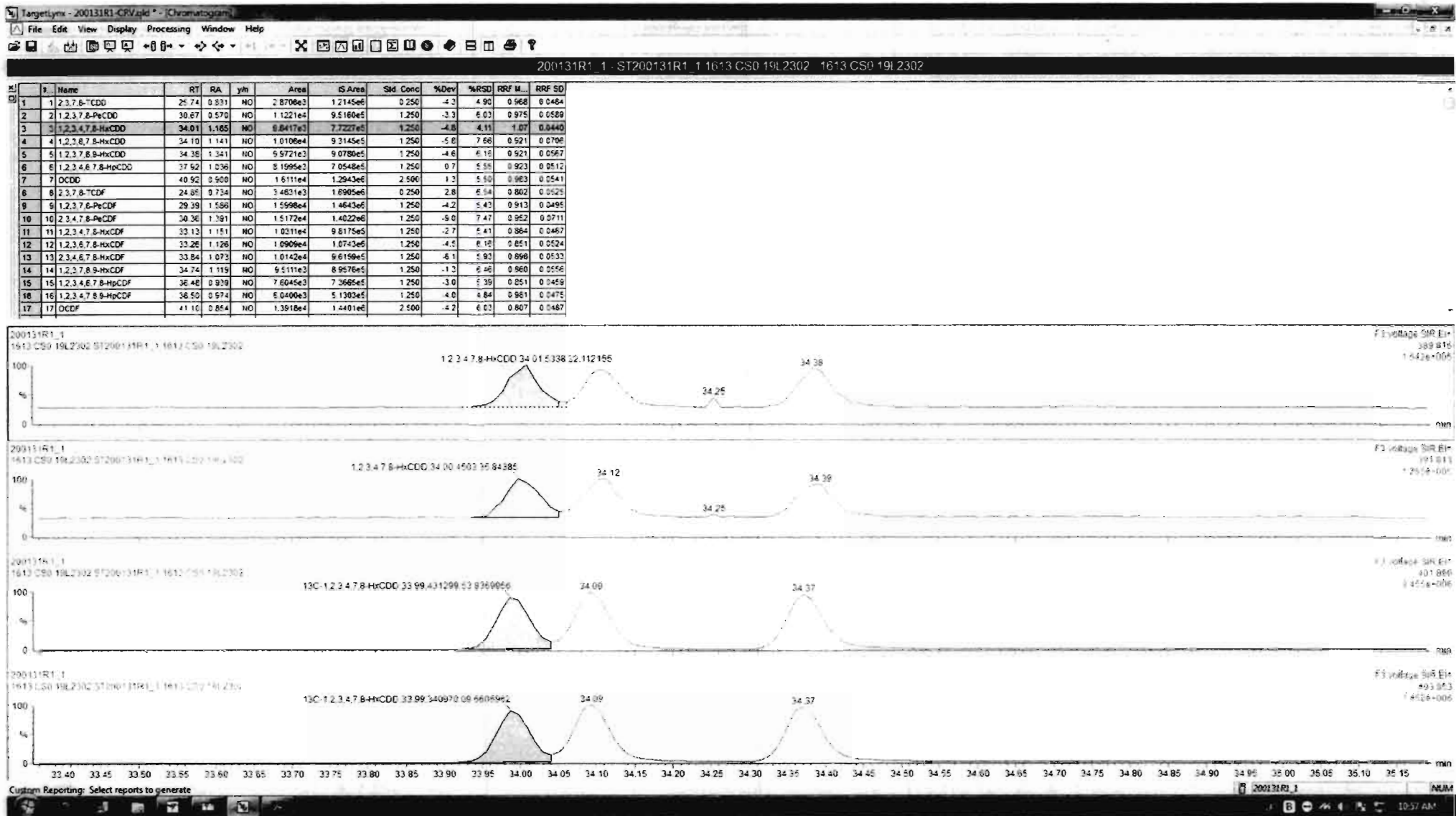
13C-1,2,3,4,7,8-HxCDD

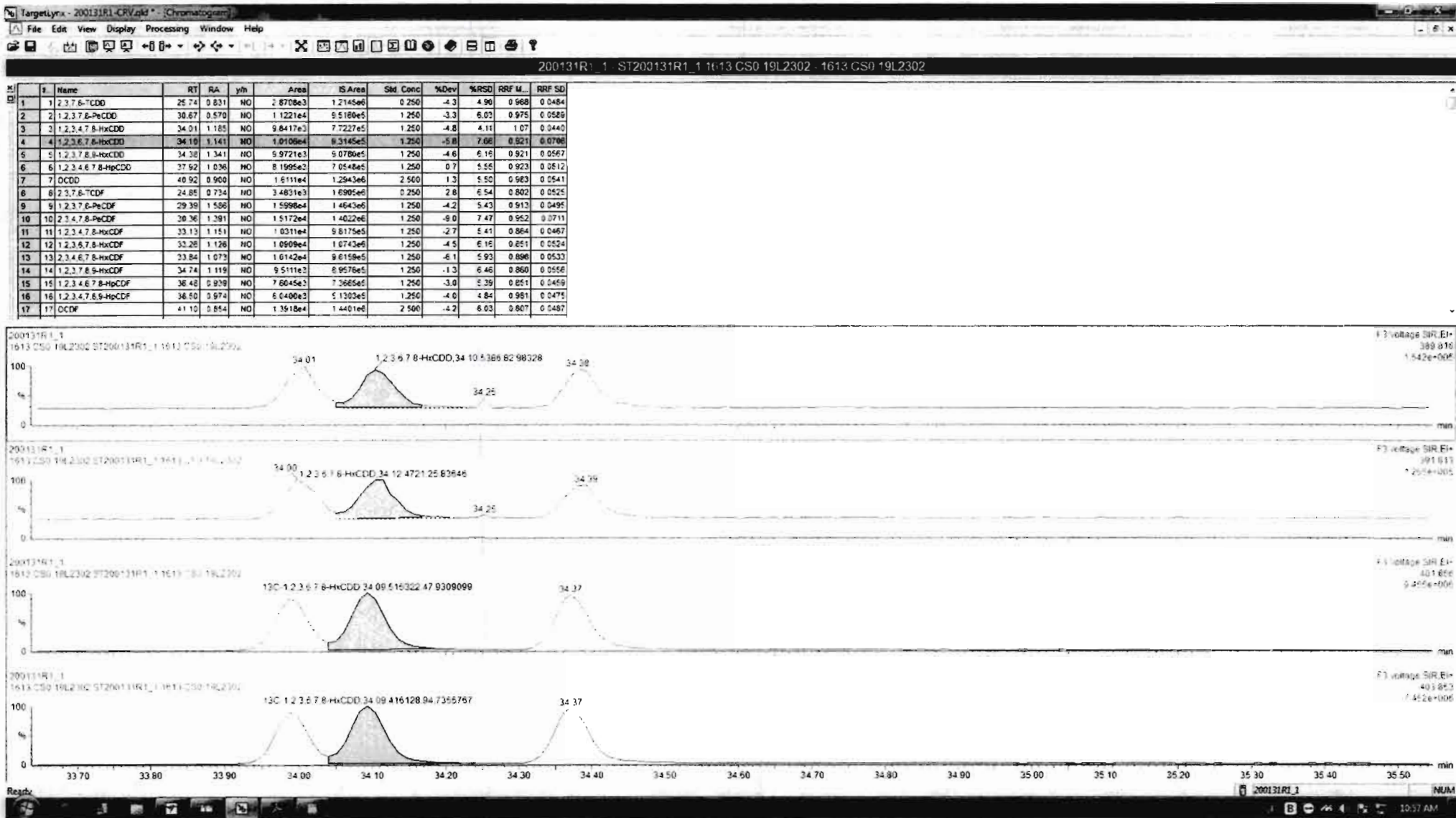
200131R1_1

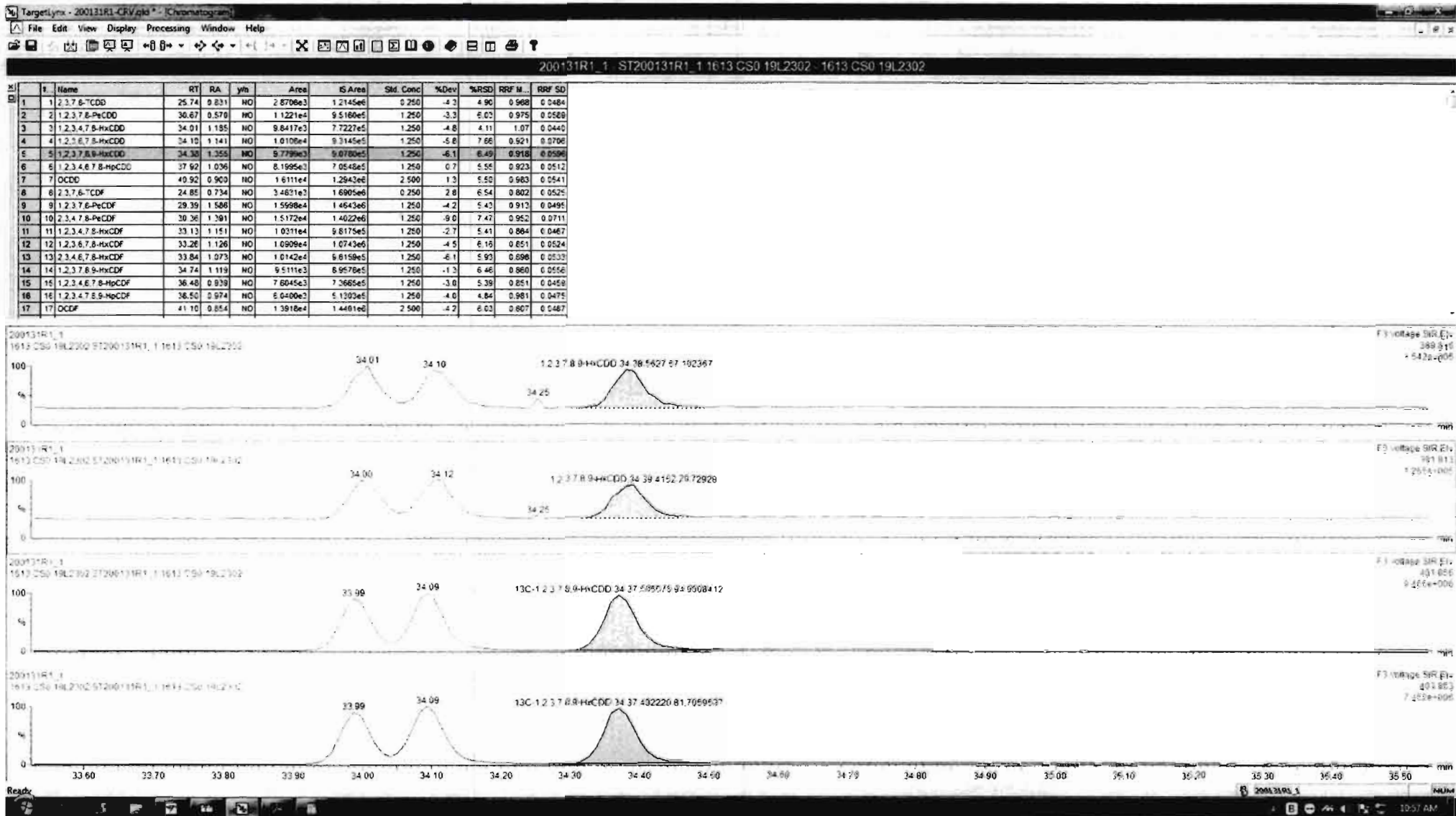


200131R1_1









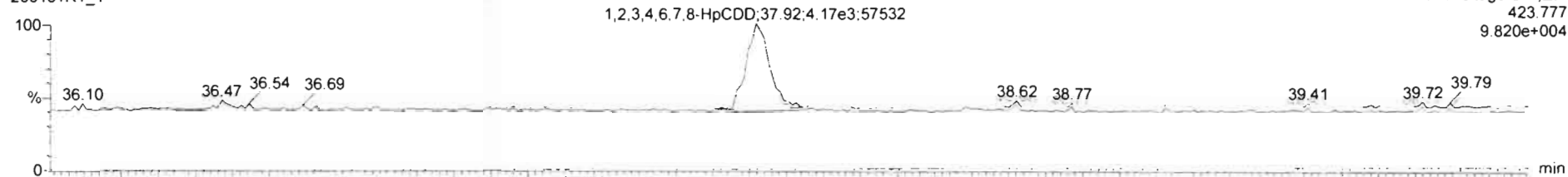
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

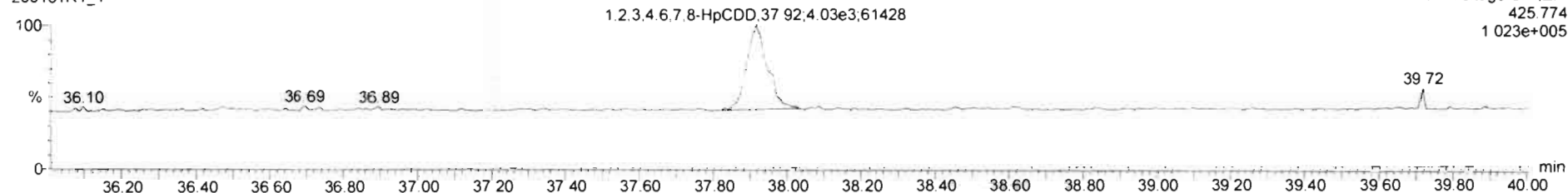
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200131R1_1

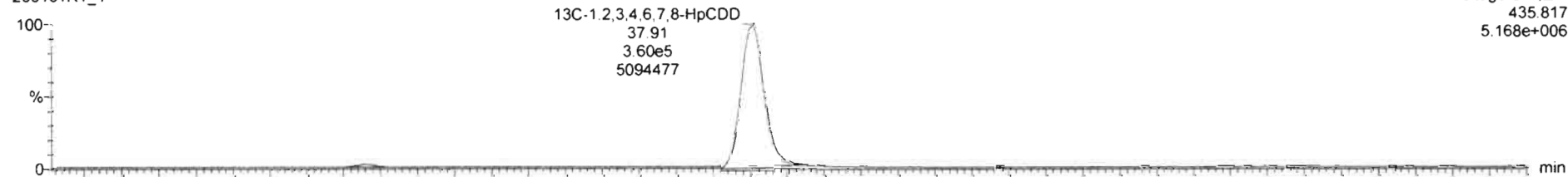


200131R1_1

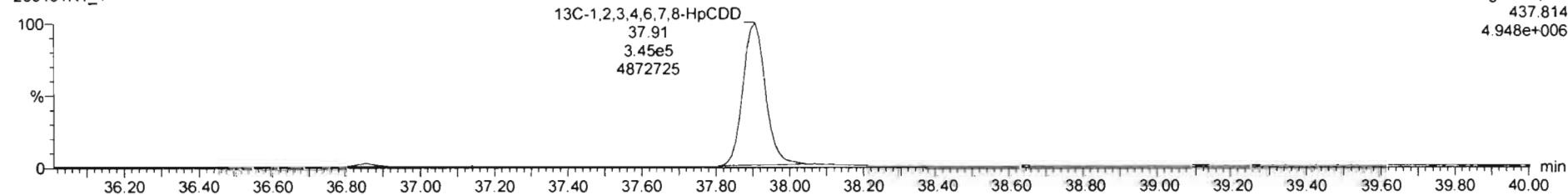


13C-1,2,3,4,6,7,8-HpCDD

200131R1_1



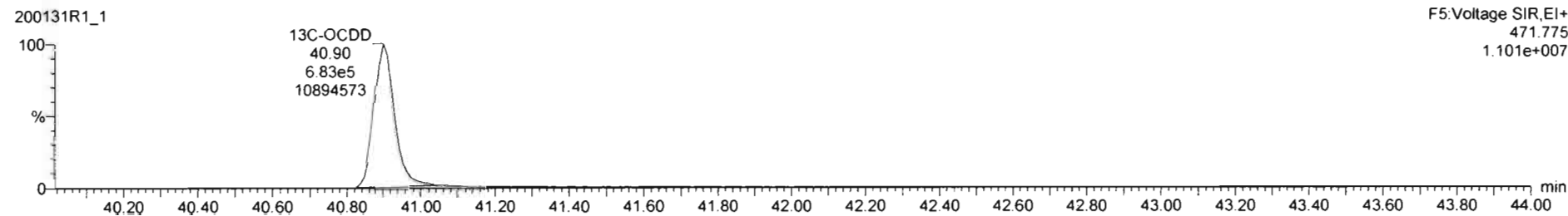
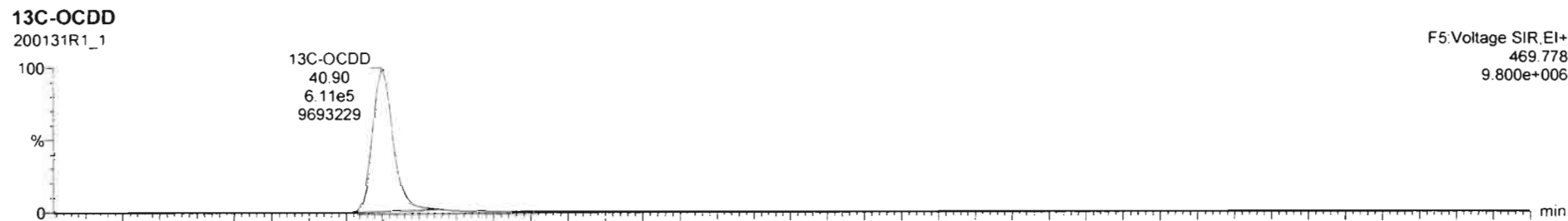
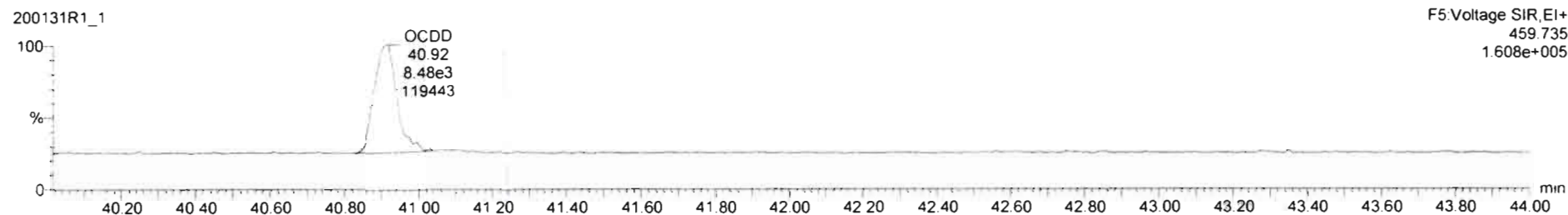
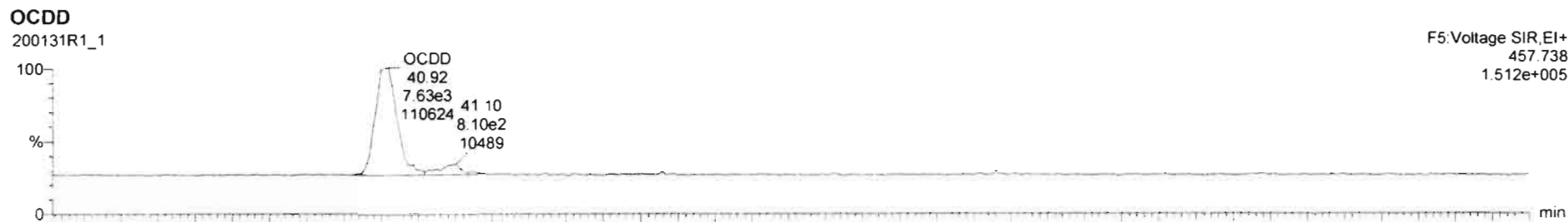
200131R1_1



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

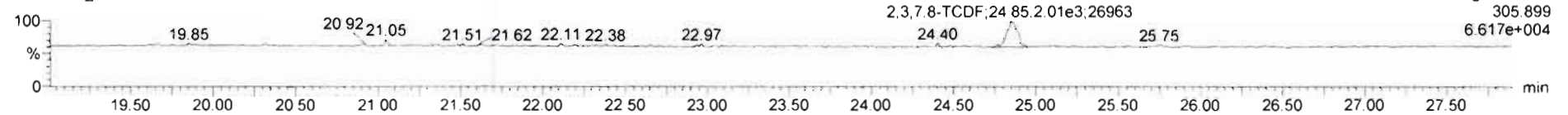
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200131R1_1

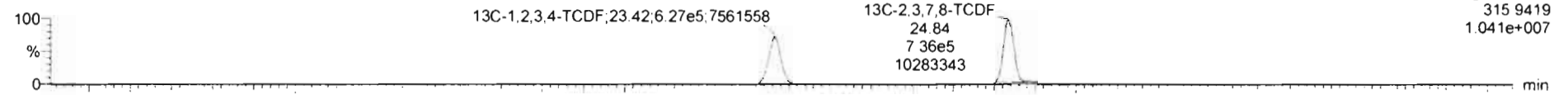


200131R1_1

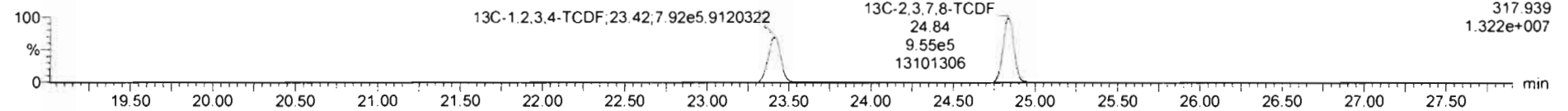


13C-2,3,7,8-TCDF

200131R1_1

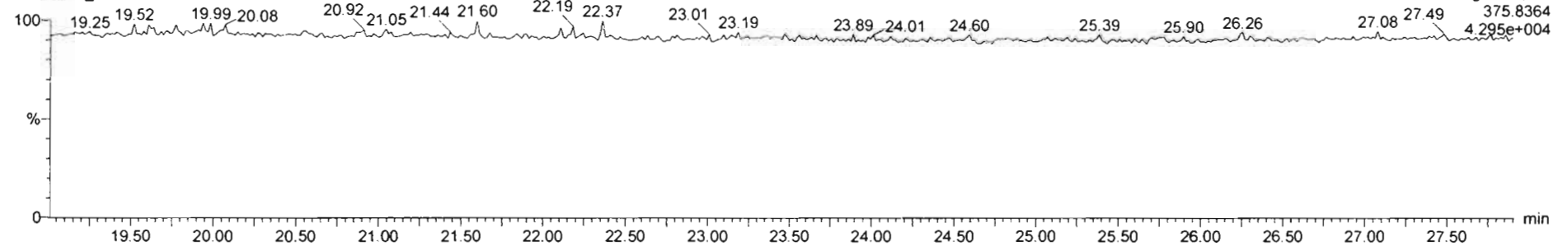


200131R1_1



DPE1

200131R1_1



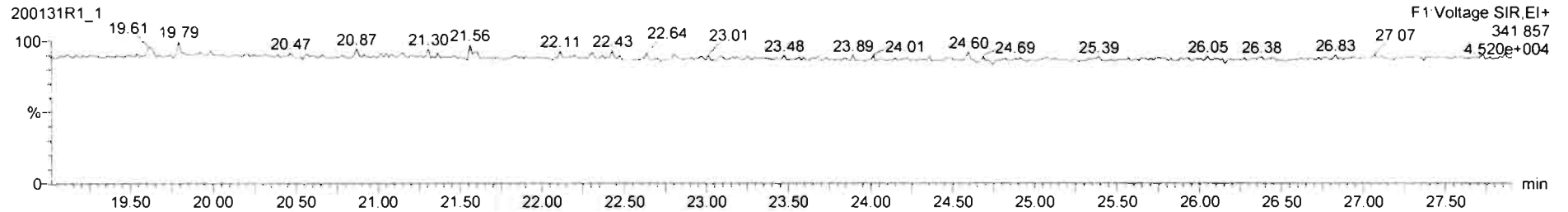
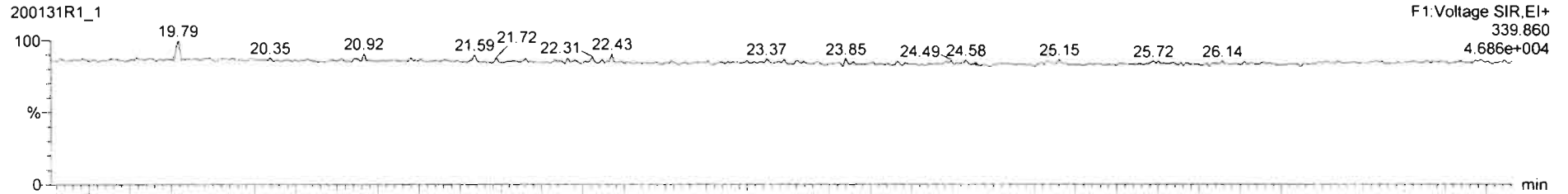
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

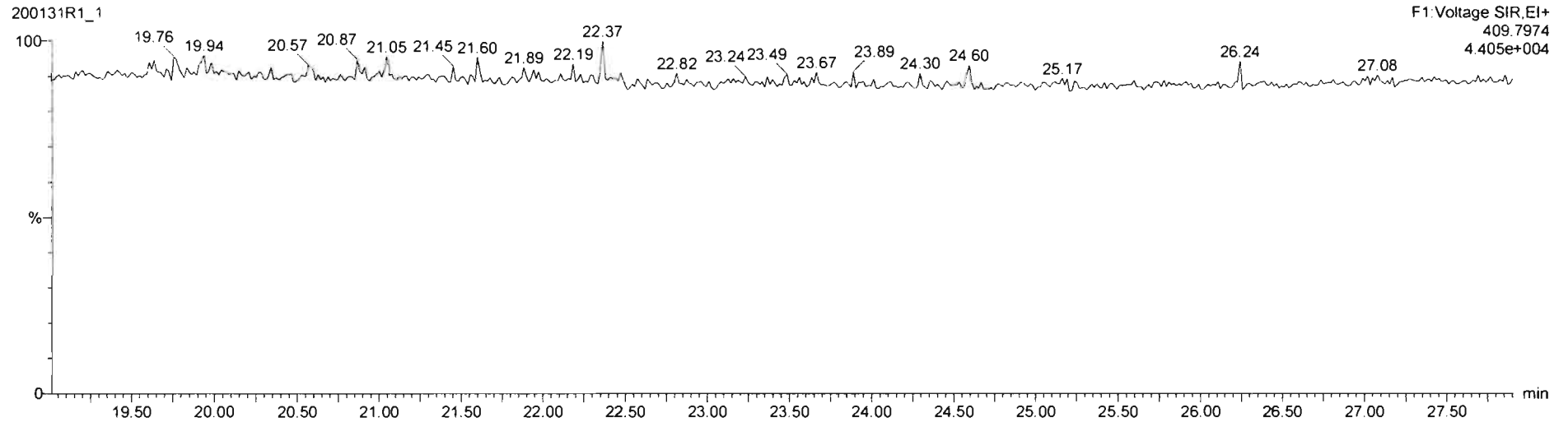
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1st Func. Penta-Furans



DPE6



Dataset: Untitled

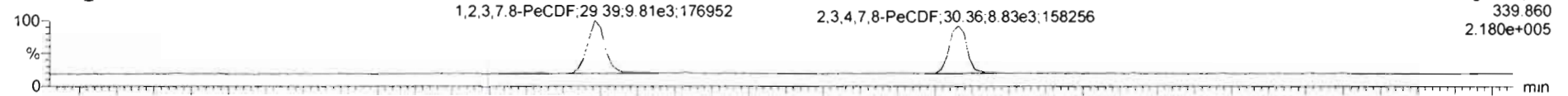
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

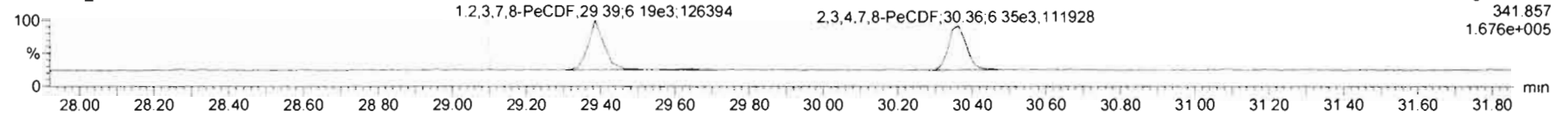
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDF

200131R1_1

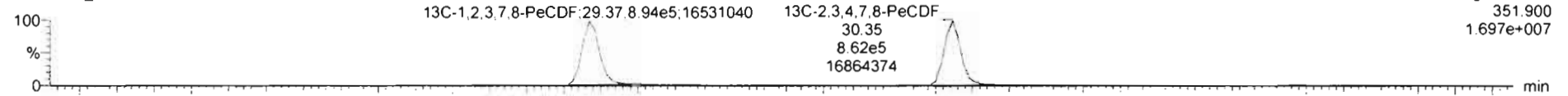


200131R1_1

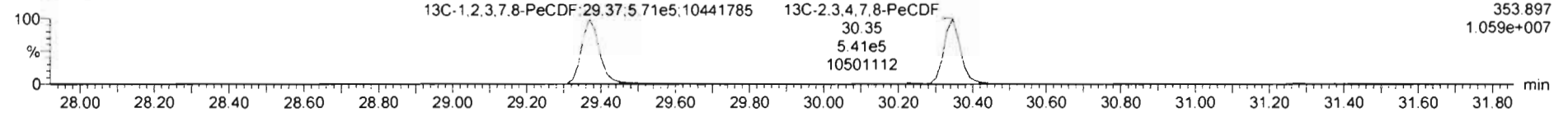


13C-1,2,3,7,8-PeCDF

200131R1_1

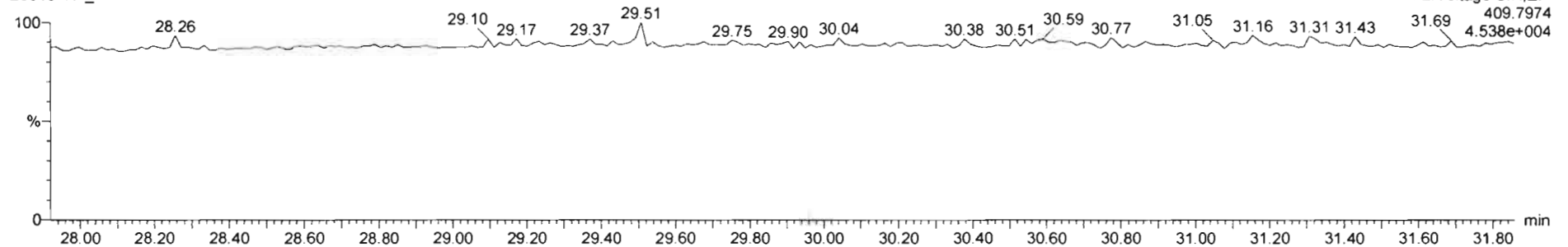


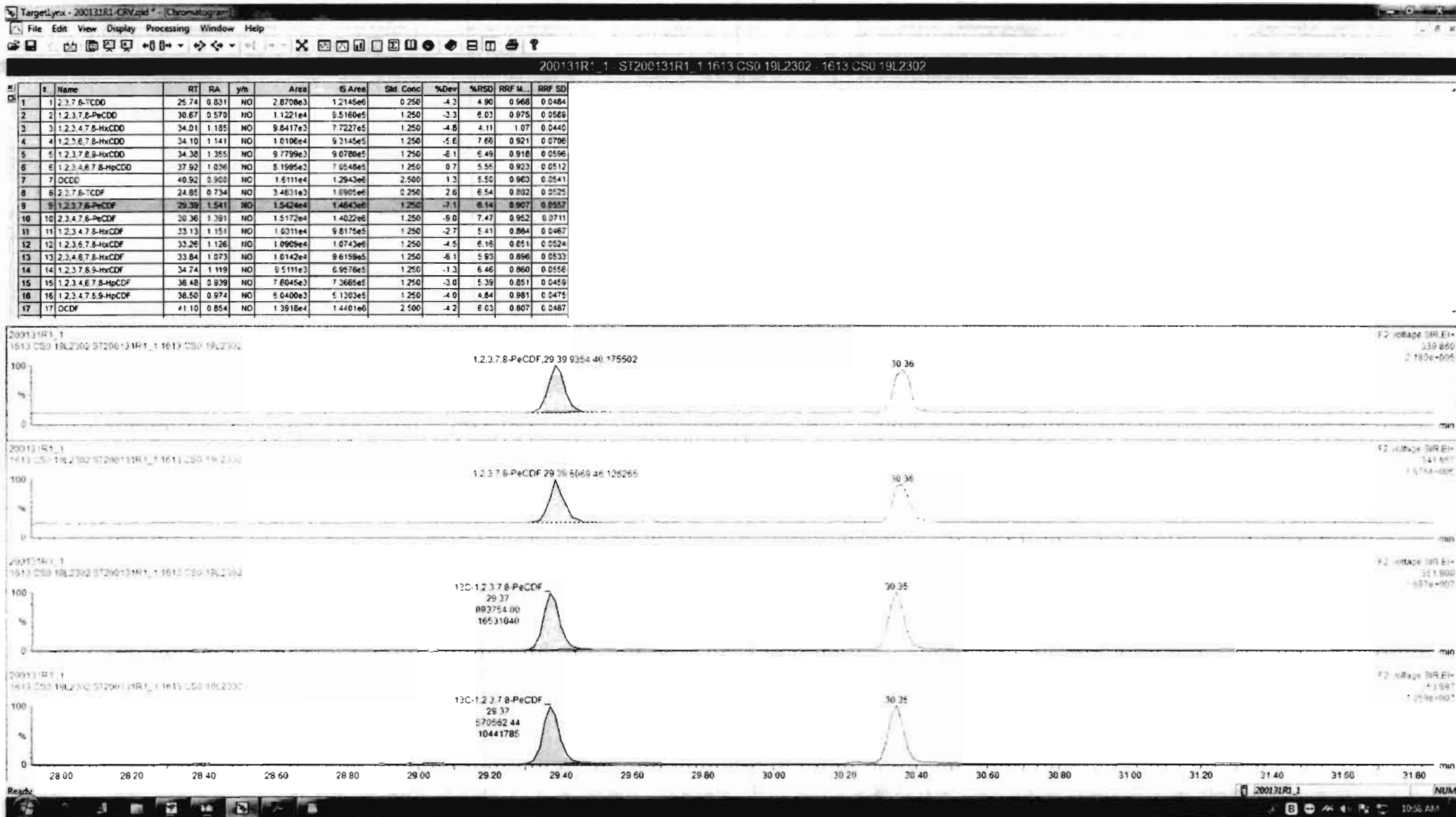
200131R1_1



DPE2

200131R1_1





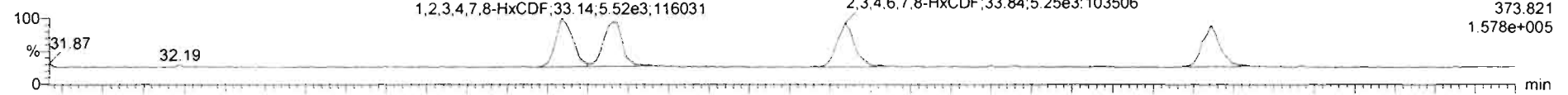
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

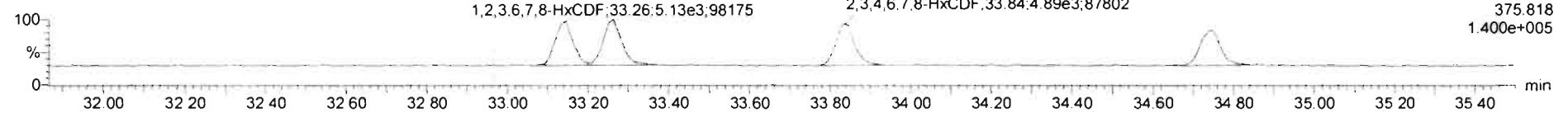
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200131R1_1

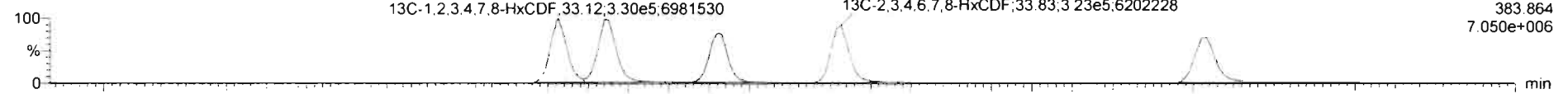


200131R1_1

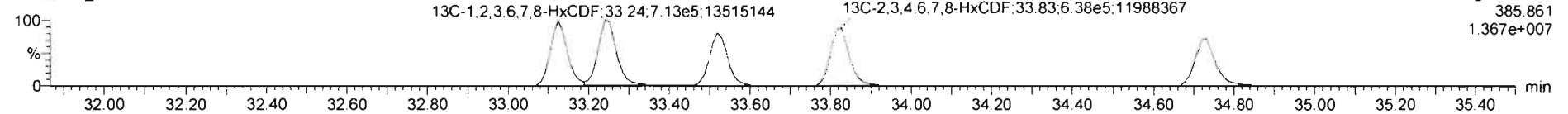


13C-1,2,3,4,7,8-HxCDF

200131R1_1

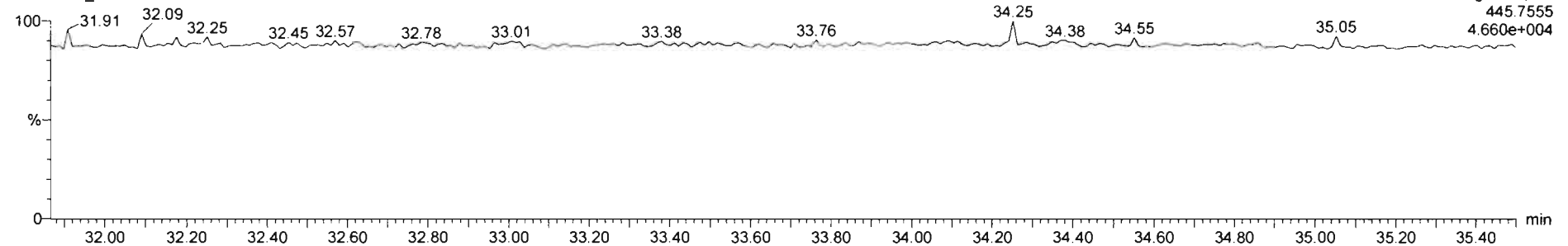


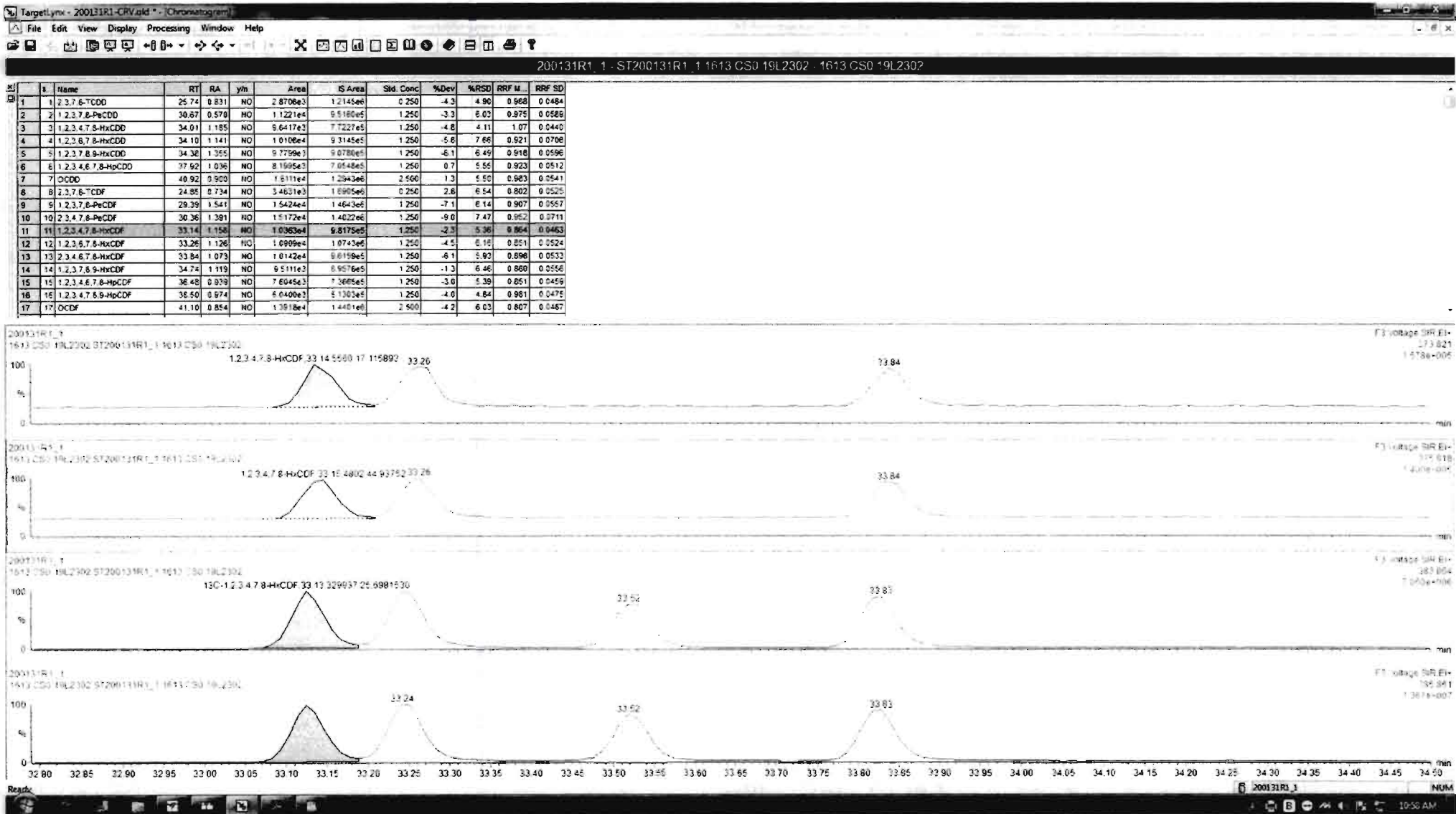
200131R1_1

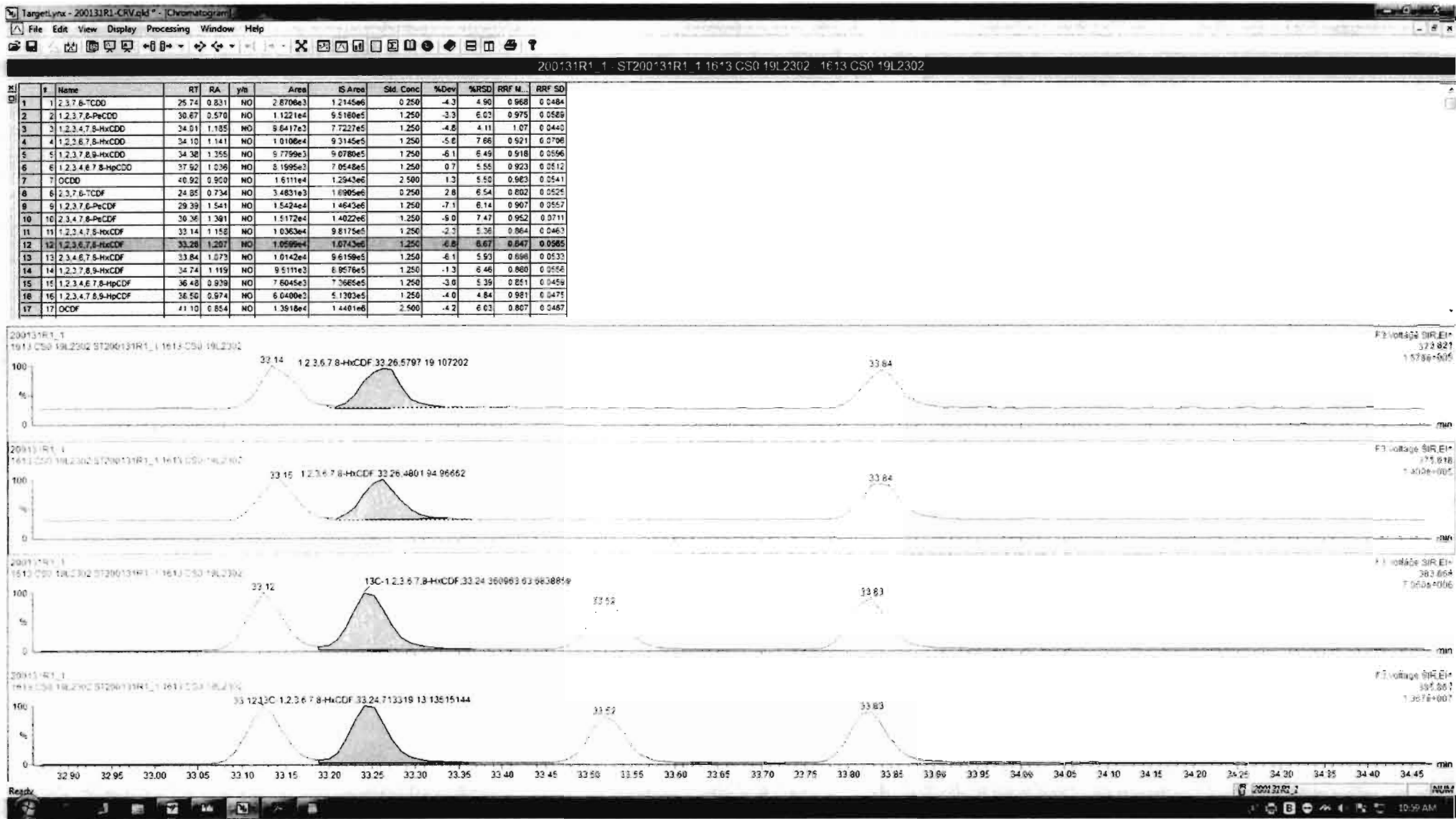


DPE3

200131R1_1







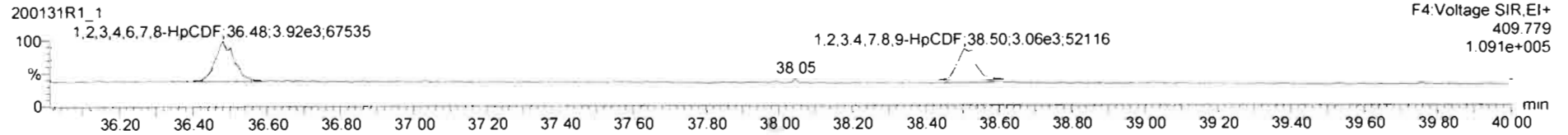
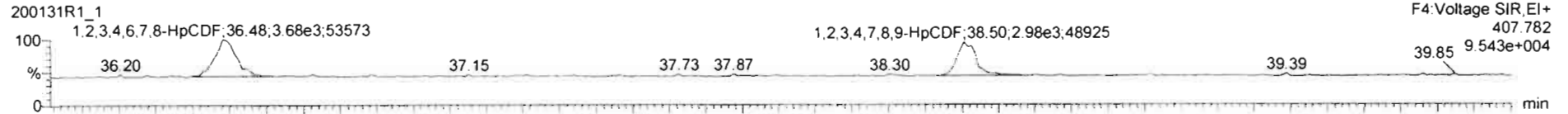
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

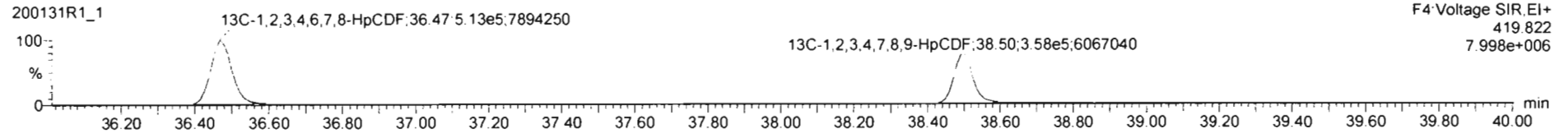
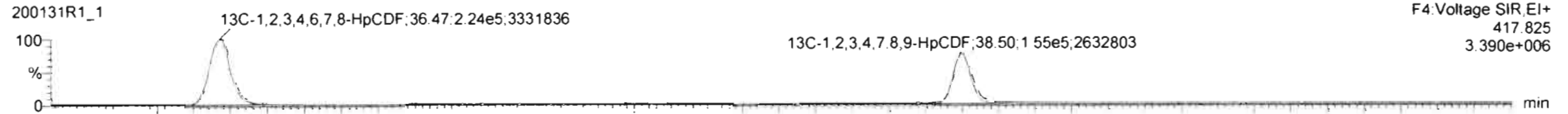
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

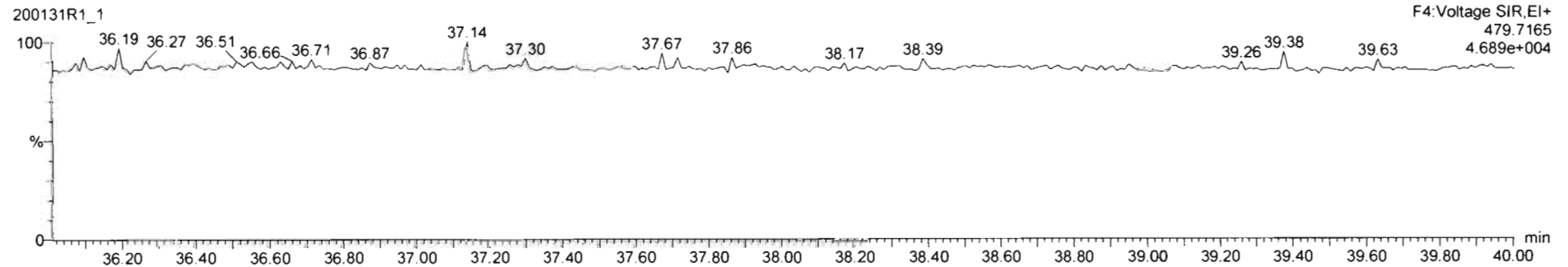
1,2,3,4,6,7,8-HpCDF

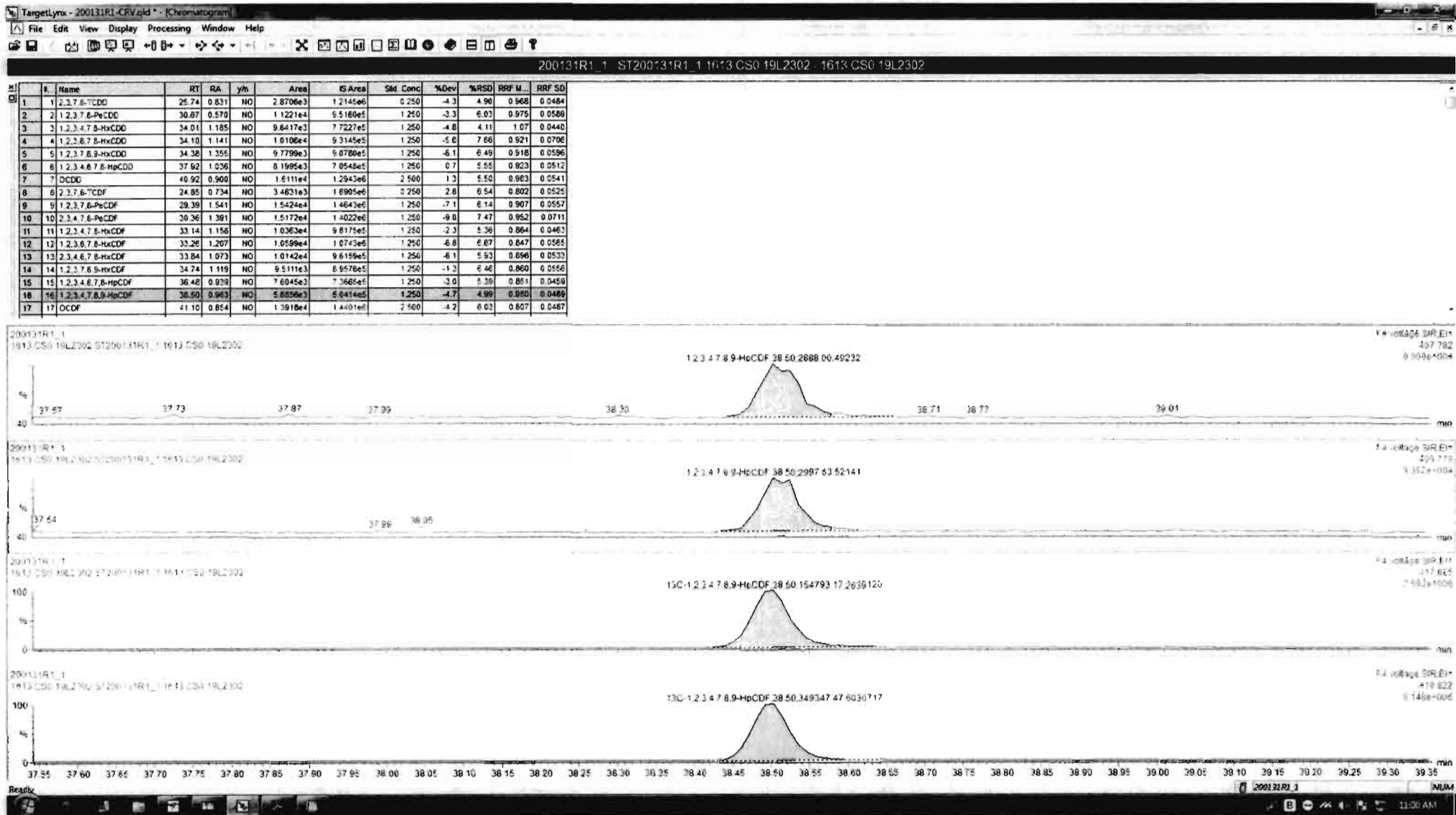


13C-1,2,3,4,6,7,8-HpCDF



DPE4

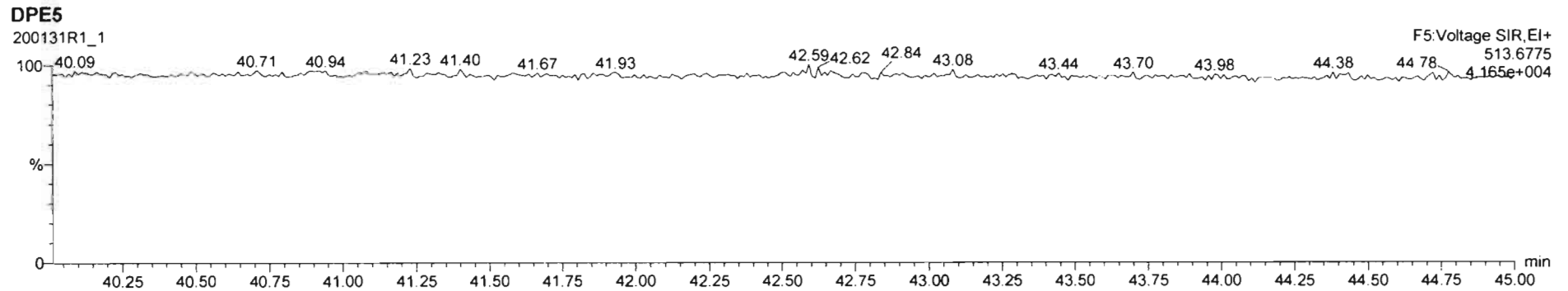
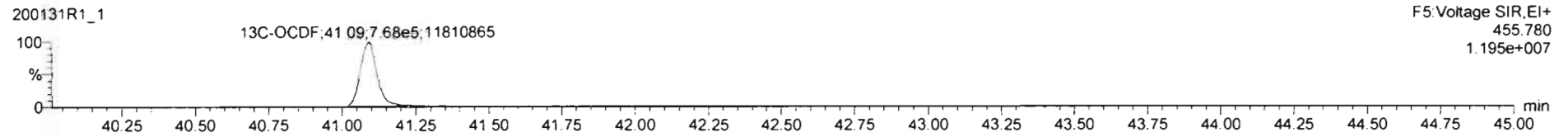
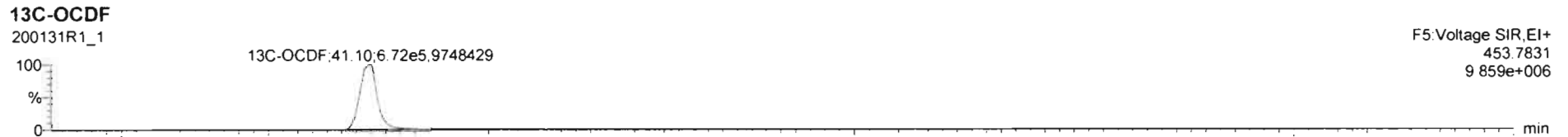
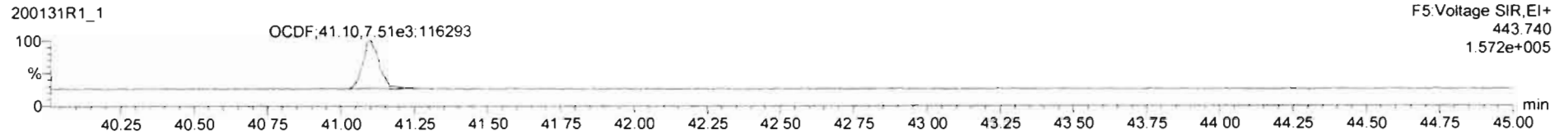
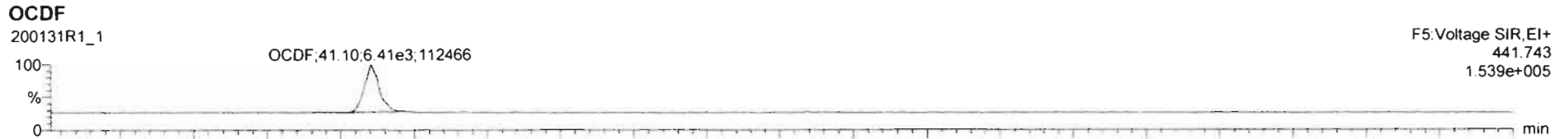




Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

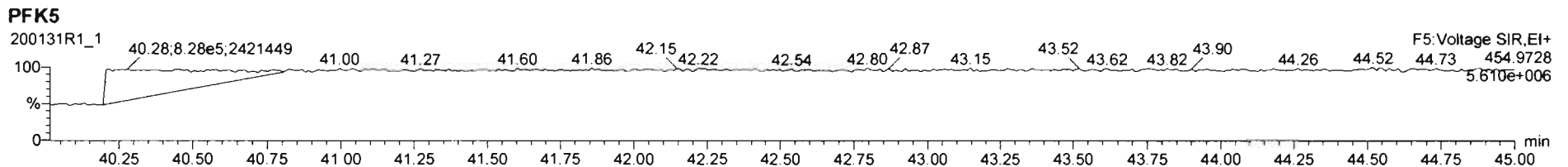
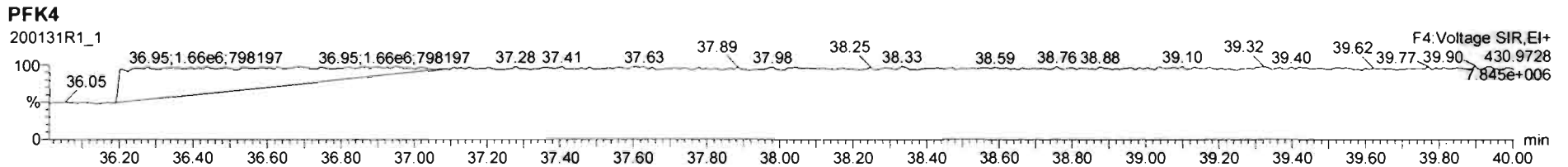
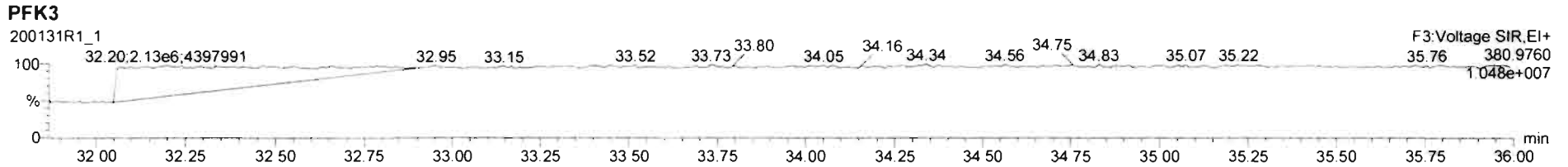
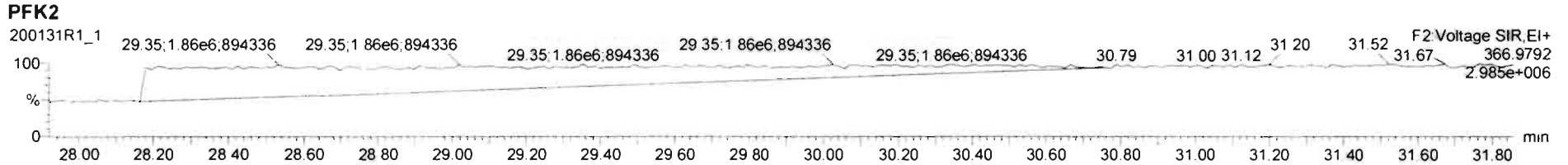
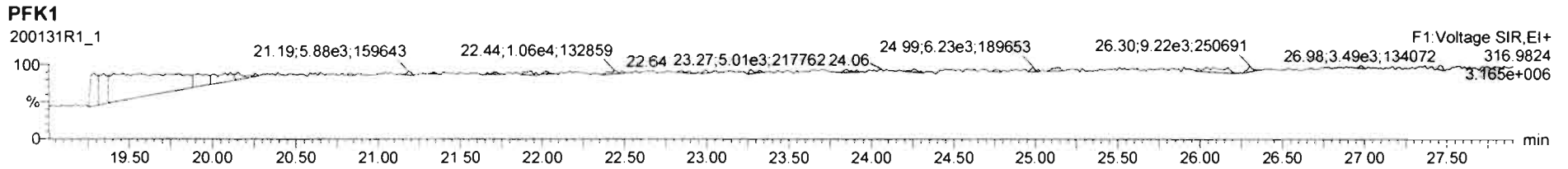


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



Dataset: Untitled

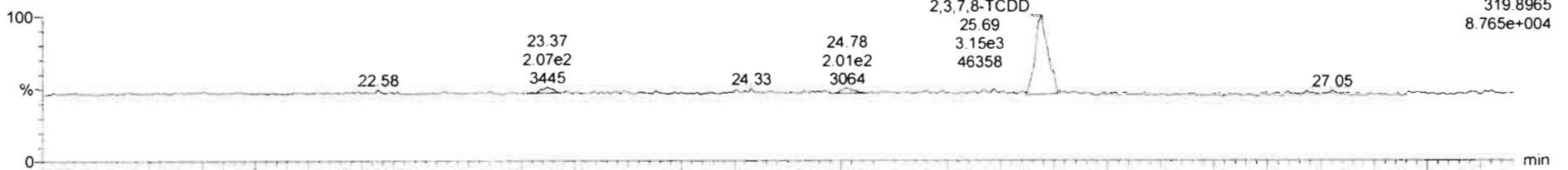
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

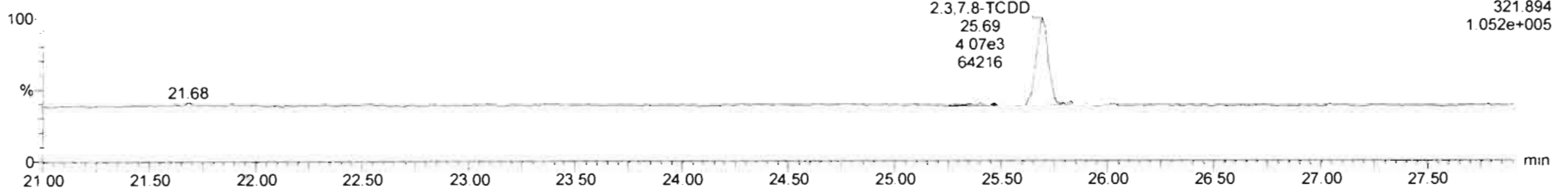
Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDD

200131R1_2

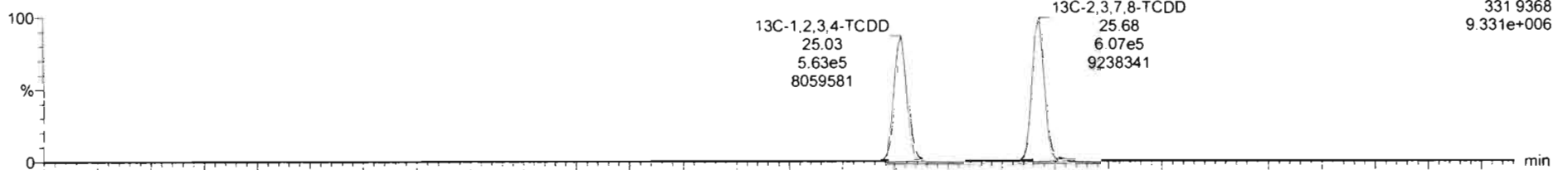


200131R1_2

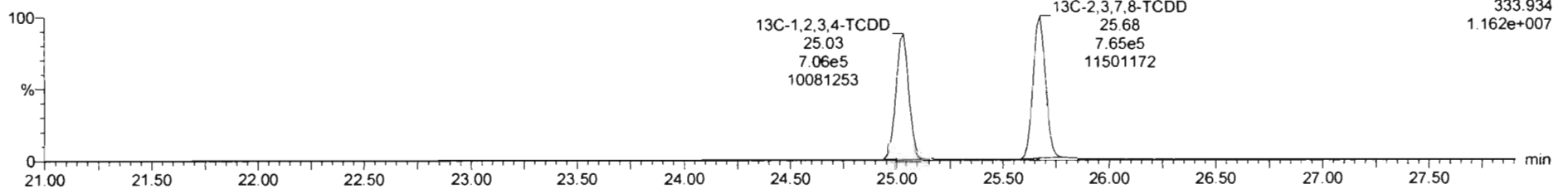


13C-2,3,7,8-TCDD

200131R1_2



200131R1_2



Dataset: Untitled

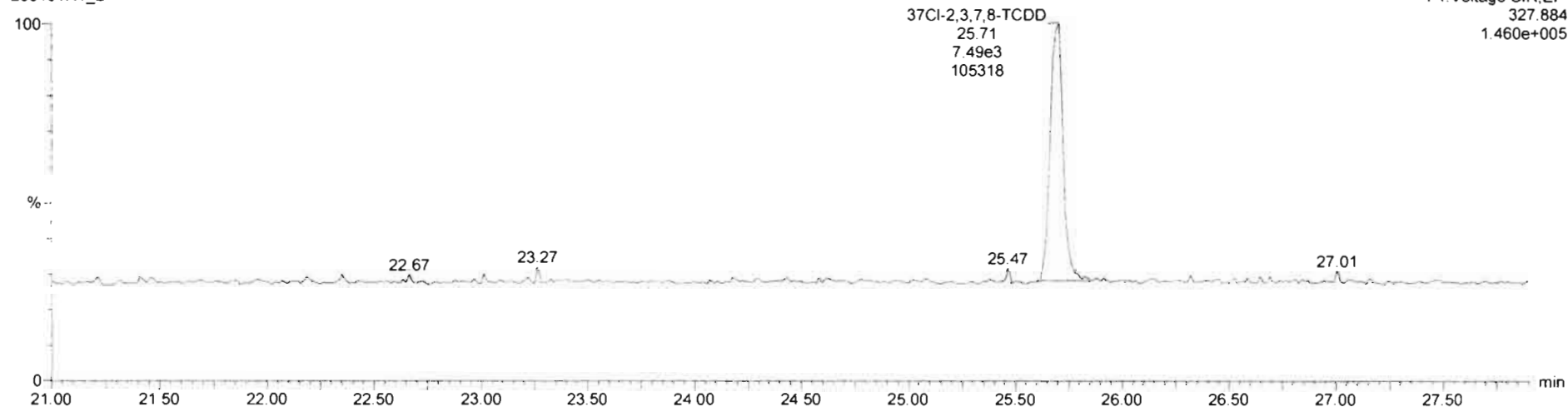
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

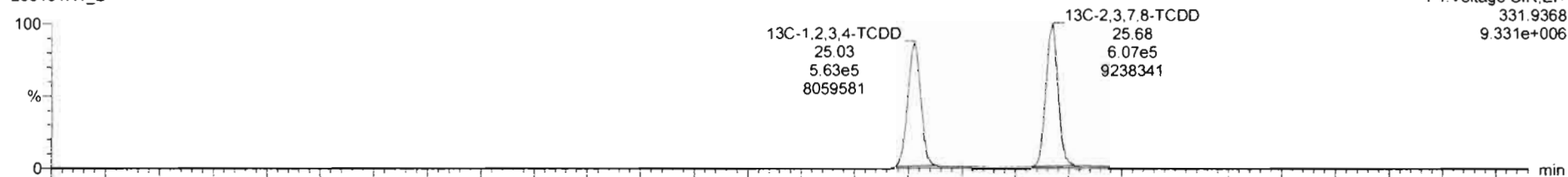
37Cl-2,3,7,8-TCDD

200131R1_2

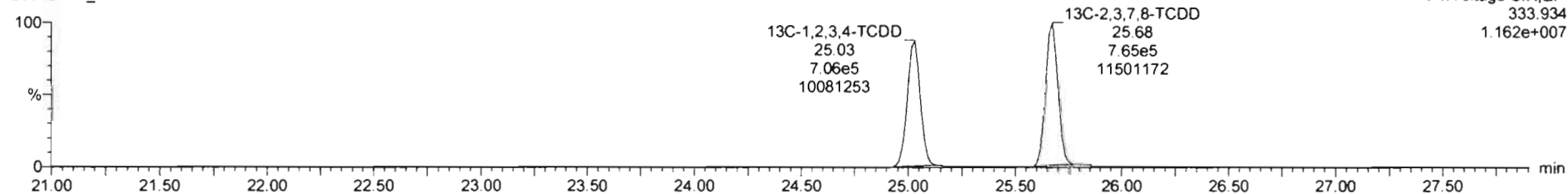


13C-1,2,3,4-TCDD

200131R1_2



200131R1_2



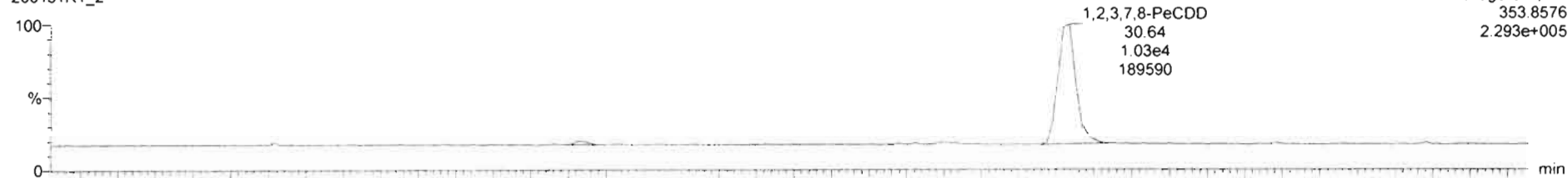
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

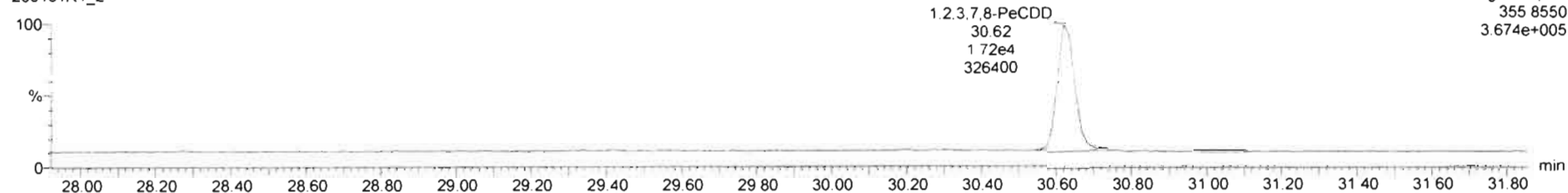
Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1,2,3,7,8-PeCDD

200131R1_2

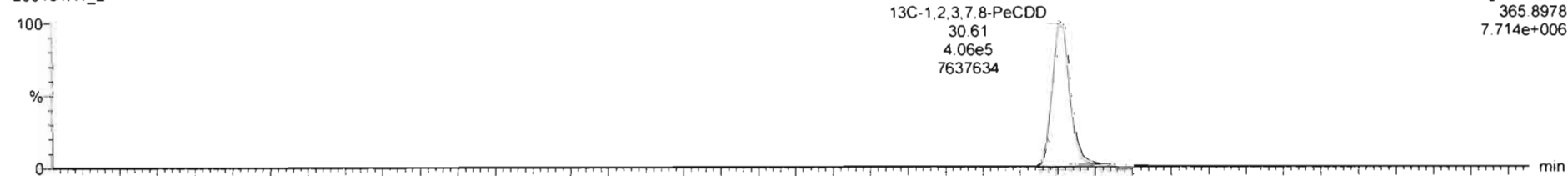


200131R1_2

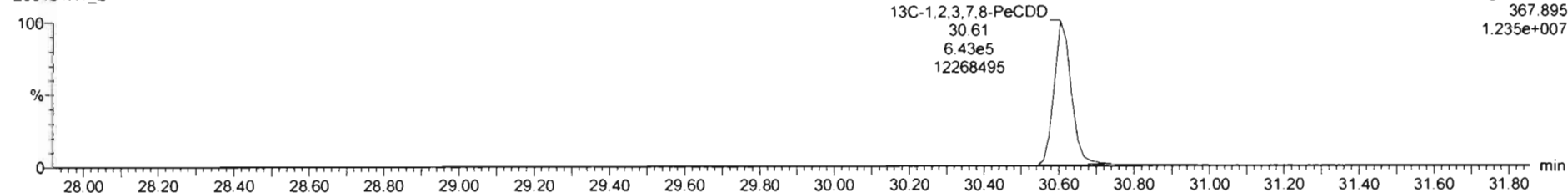


13C-1,2,3,7,8-PeCDD

200131R1_2



200131R1_2



Dataset: Untitled

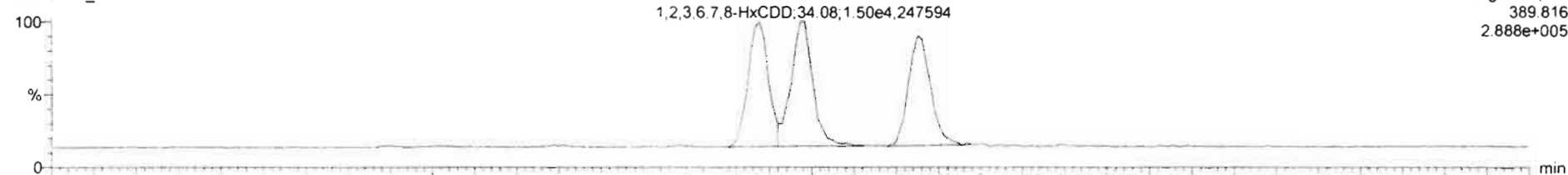
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

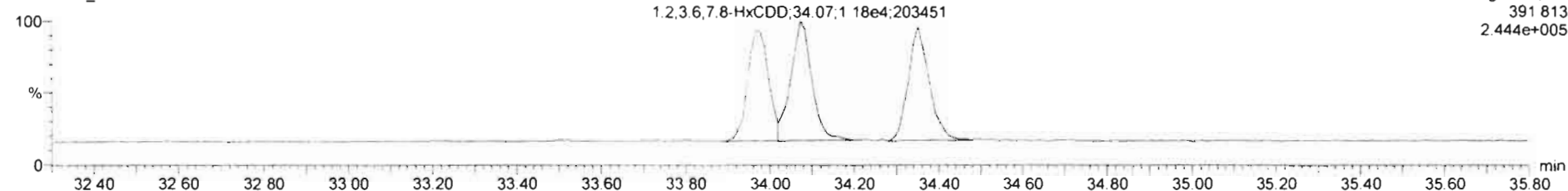
Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200131R1_2

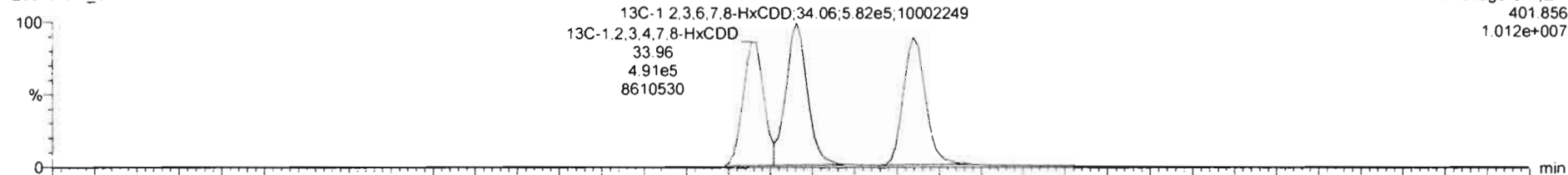


200131R1_2

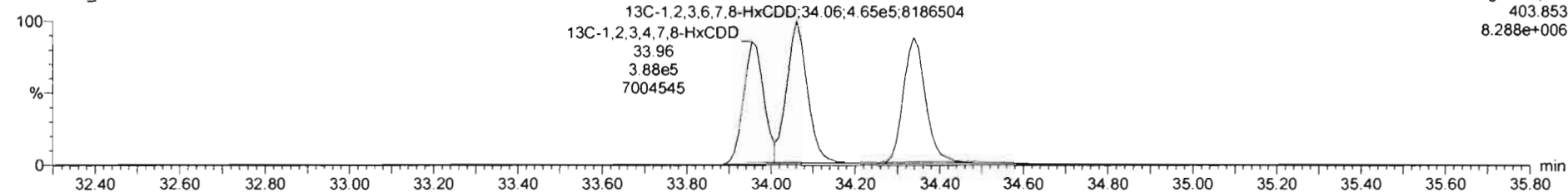


13C-1,2,3,4,7,8-HxCDD

200131R1_2



200131R1_2



Dataset: Untitled

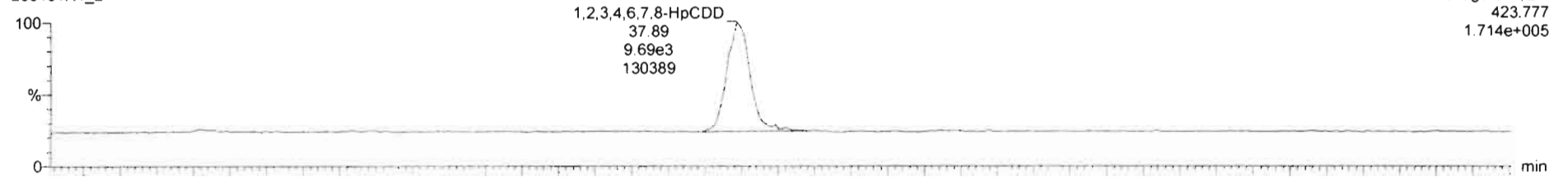
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

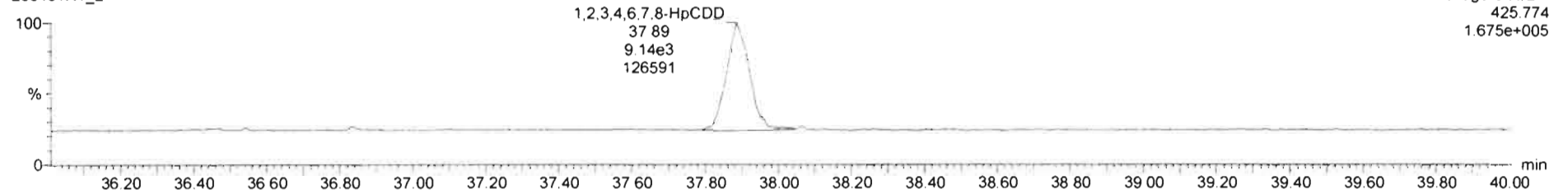
Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200131R1_2

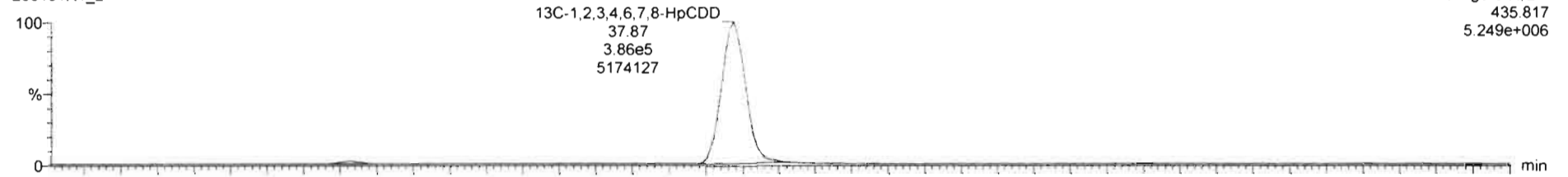


200131R1_2

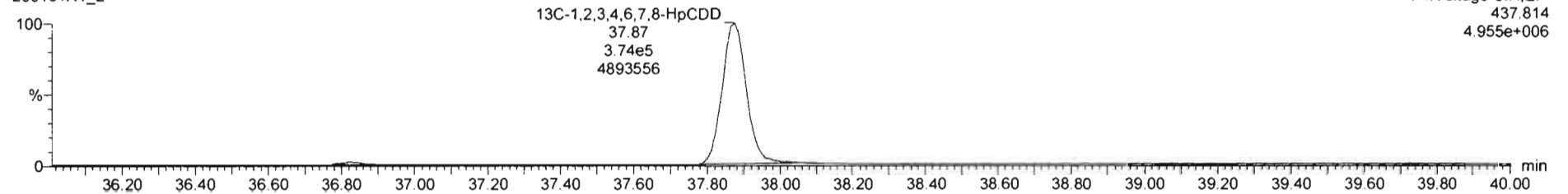


13C-1,2,3,4,6,7,8-HpCDD

200131R1_2



200131R1_2

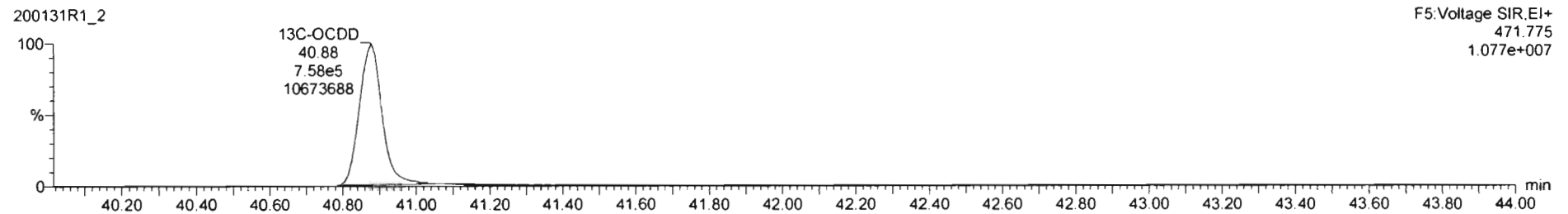
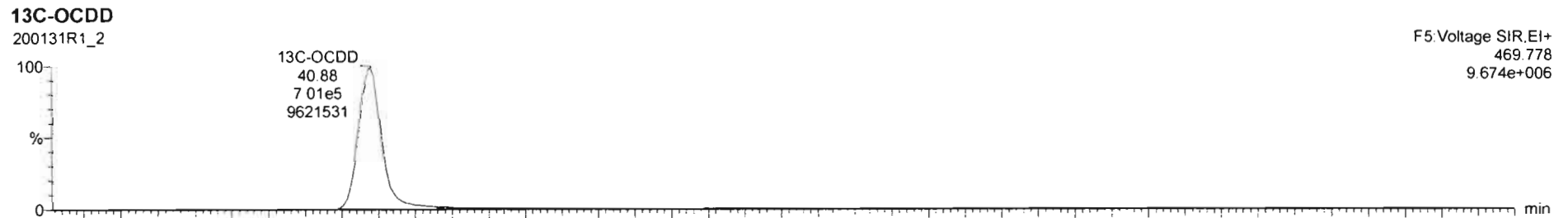
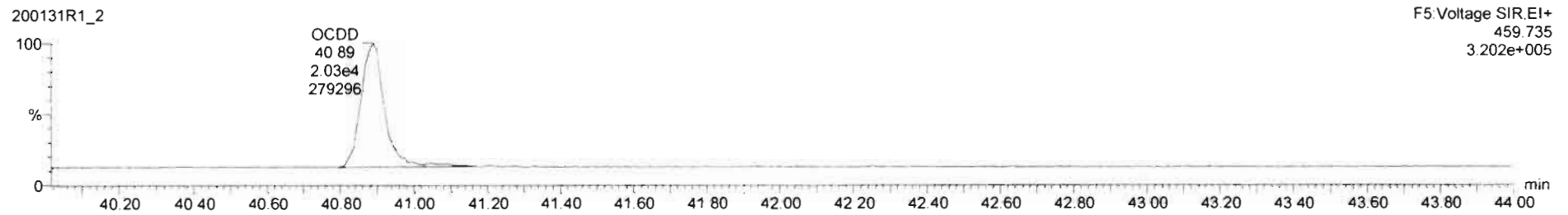
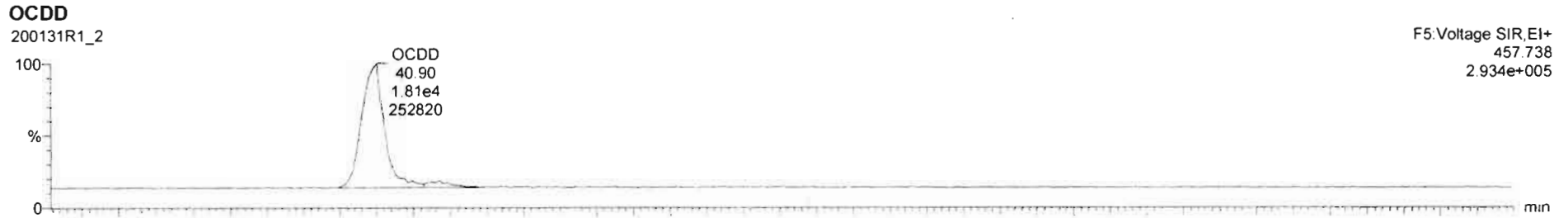


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



Dataset: Untitled

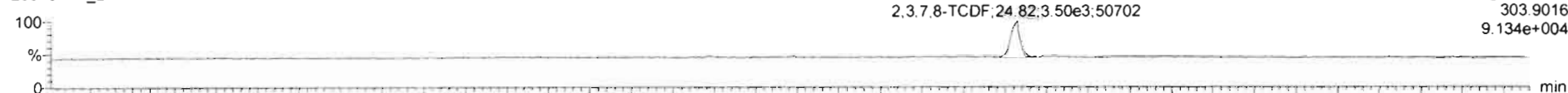
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

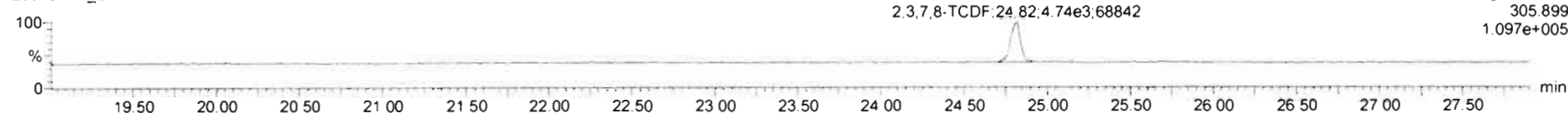
Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200131R1_2

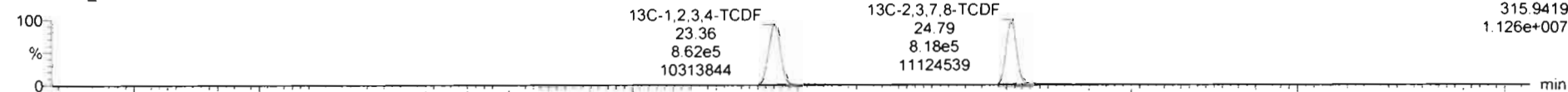


200131R1_2

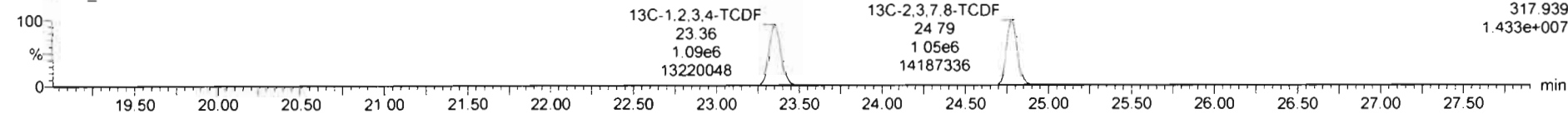


13C-2,3,7,8-TCDF

200131R1_2

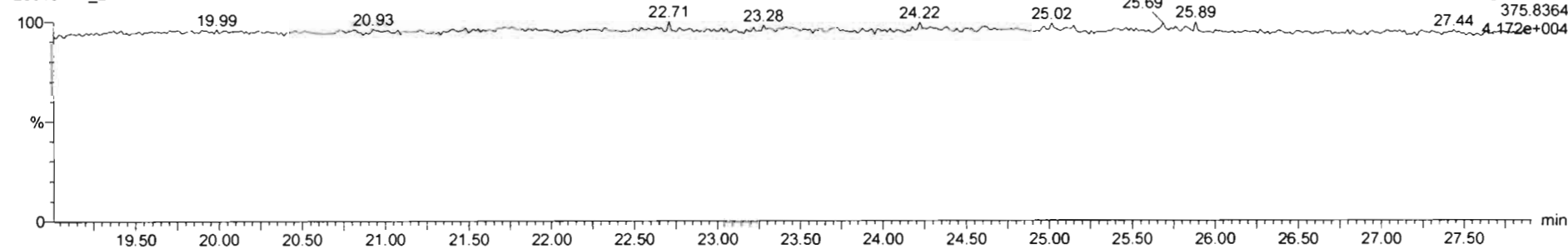


200131R1_2



DPE1

200131R1_2



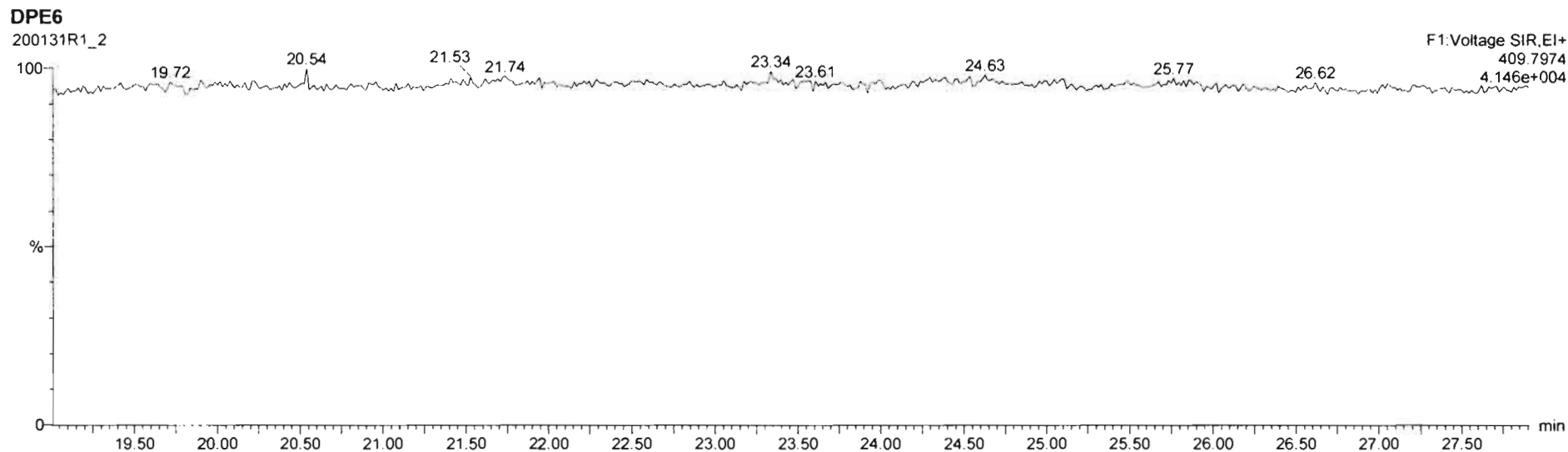
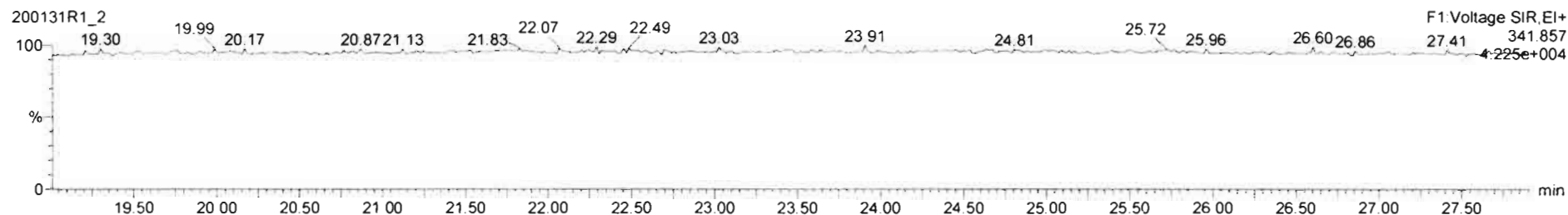
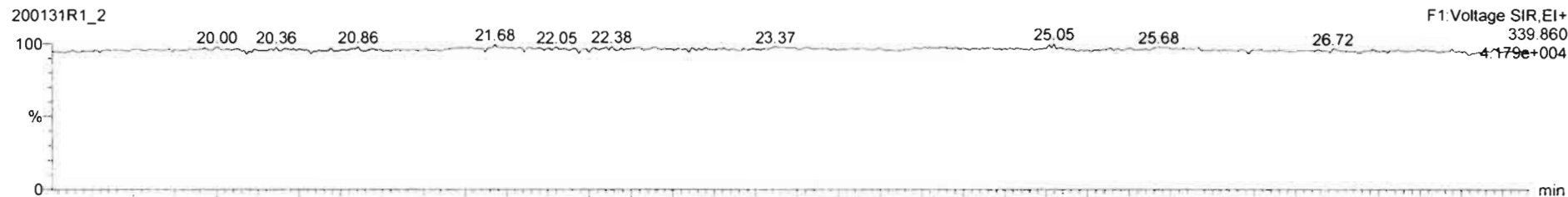
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans



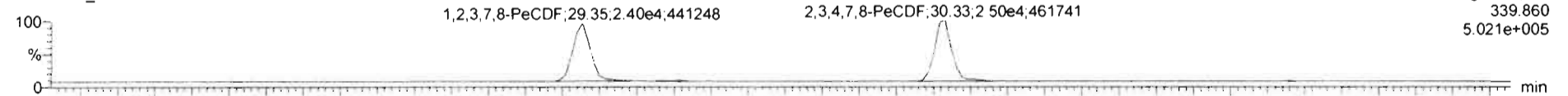
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

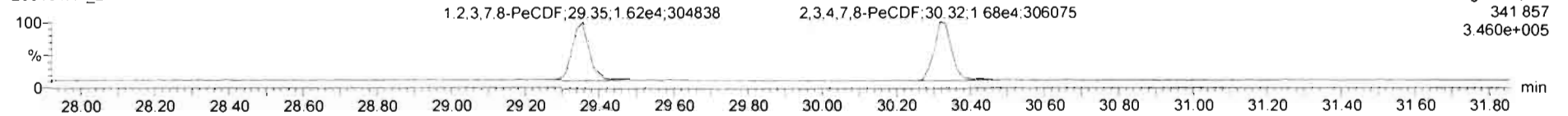
Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1,2,3,7,8-PeCDF

200131R1_2

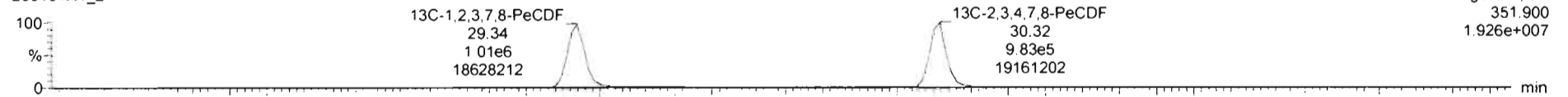


200131R1_2

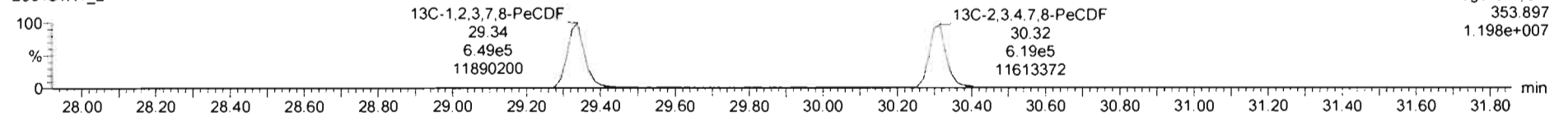


13C-1,2,3,7,8-PeCDF

200131R1_2

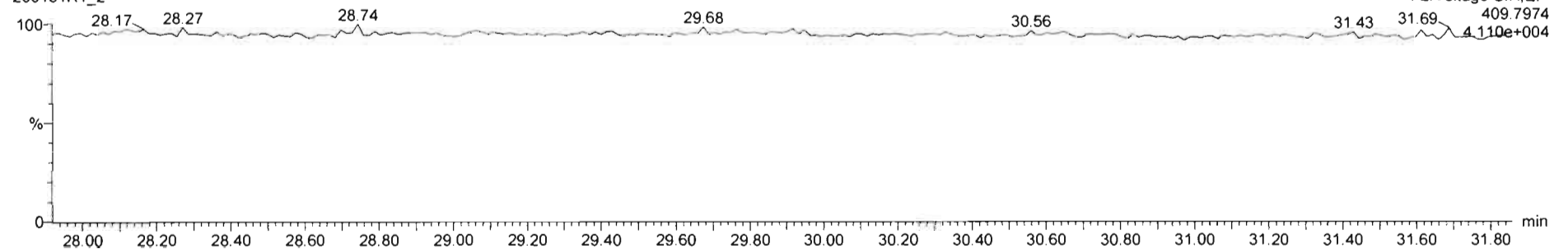


200131R1_2



DPE2

200131R1_2



Dataset: Untitled

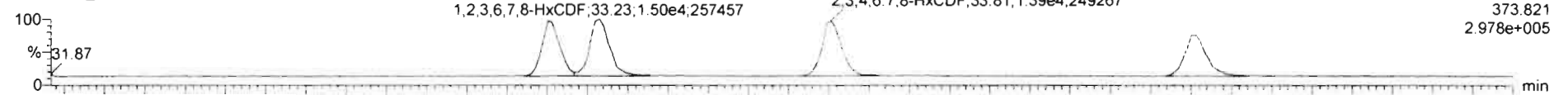
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

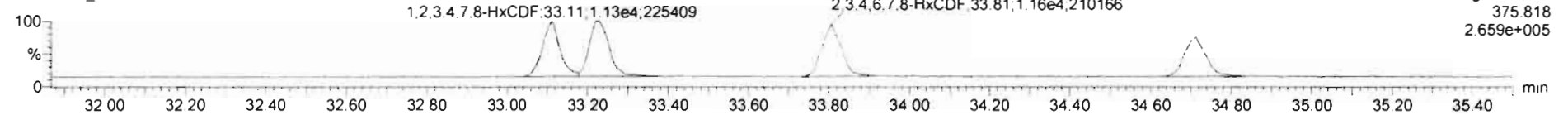
Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200131R1_2

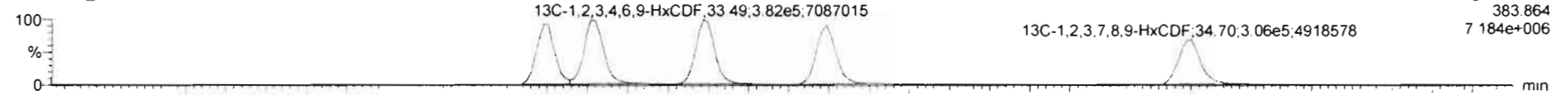


200131R1_2

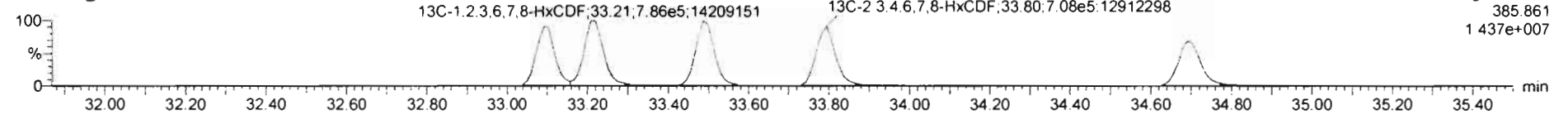


13C-1,2,3,4,7,8-HxCDF

200131R1_2

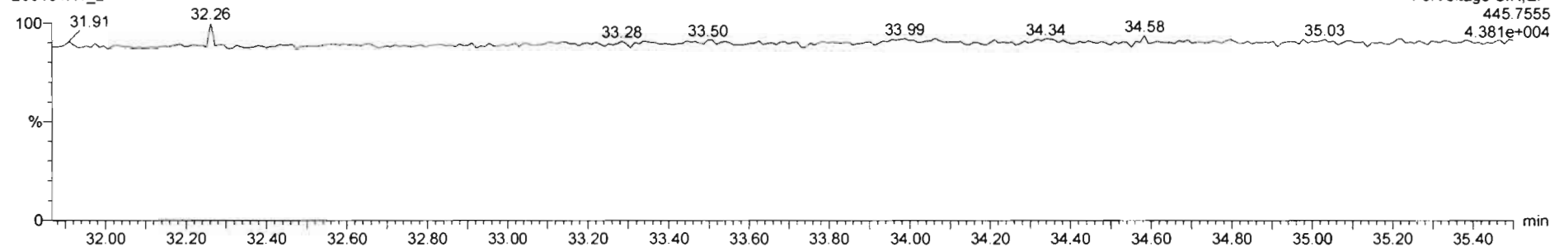


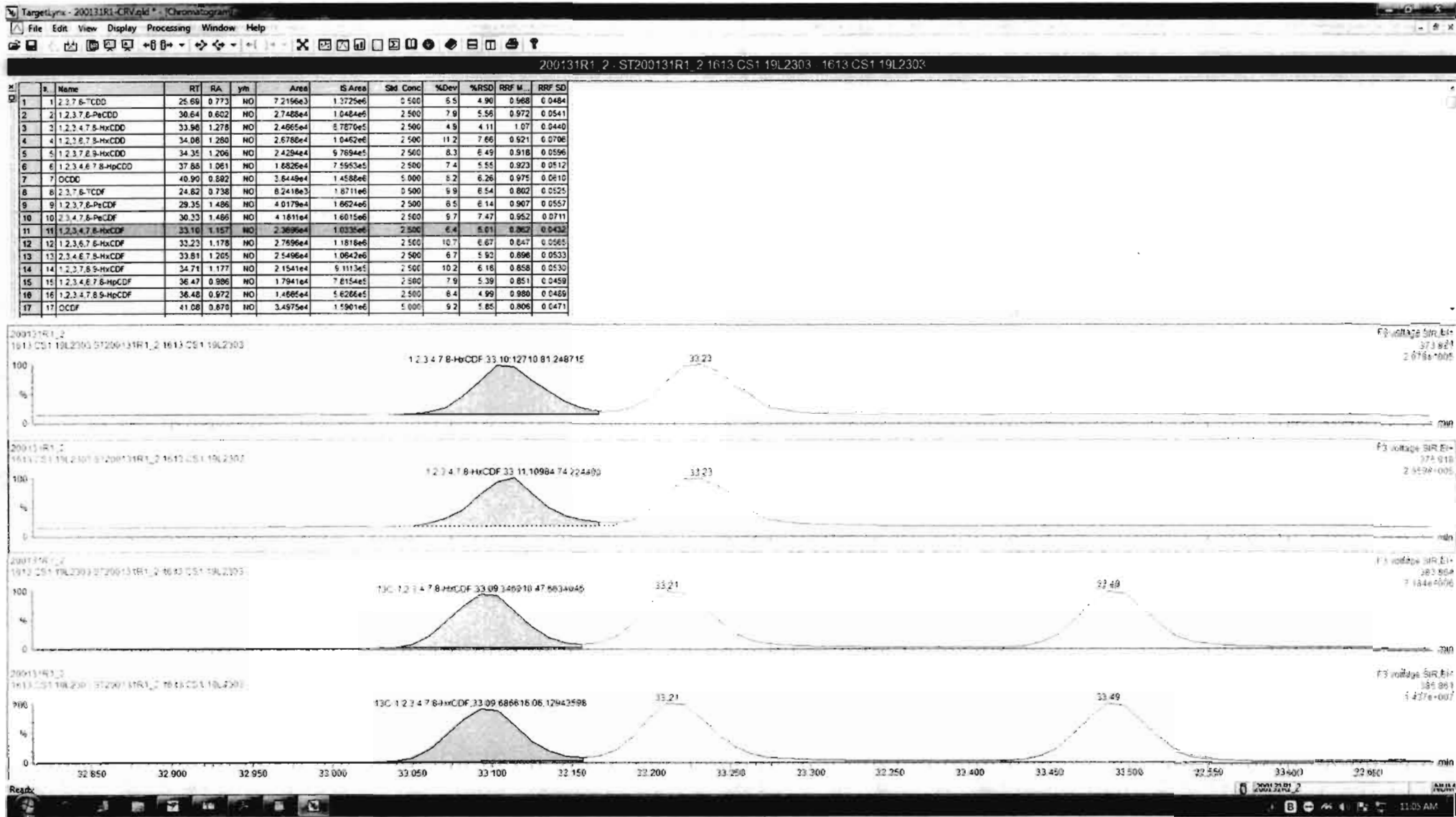
200131R1_2

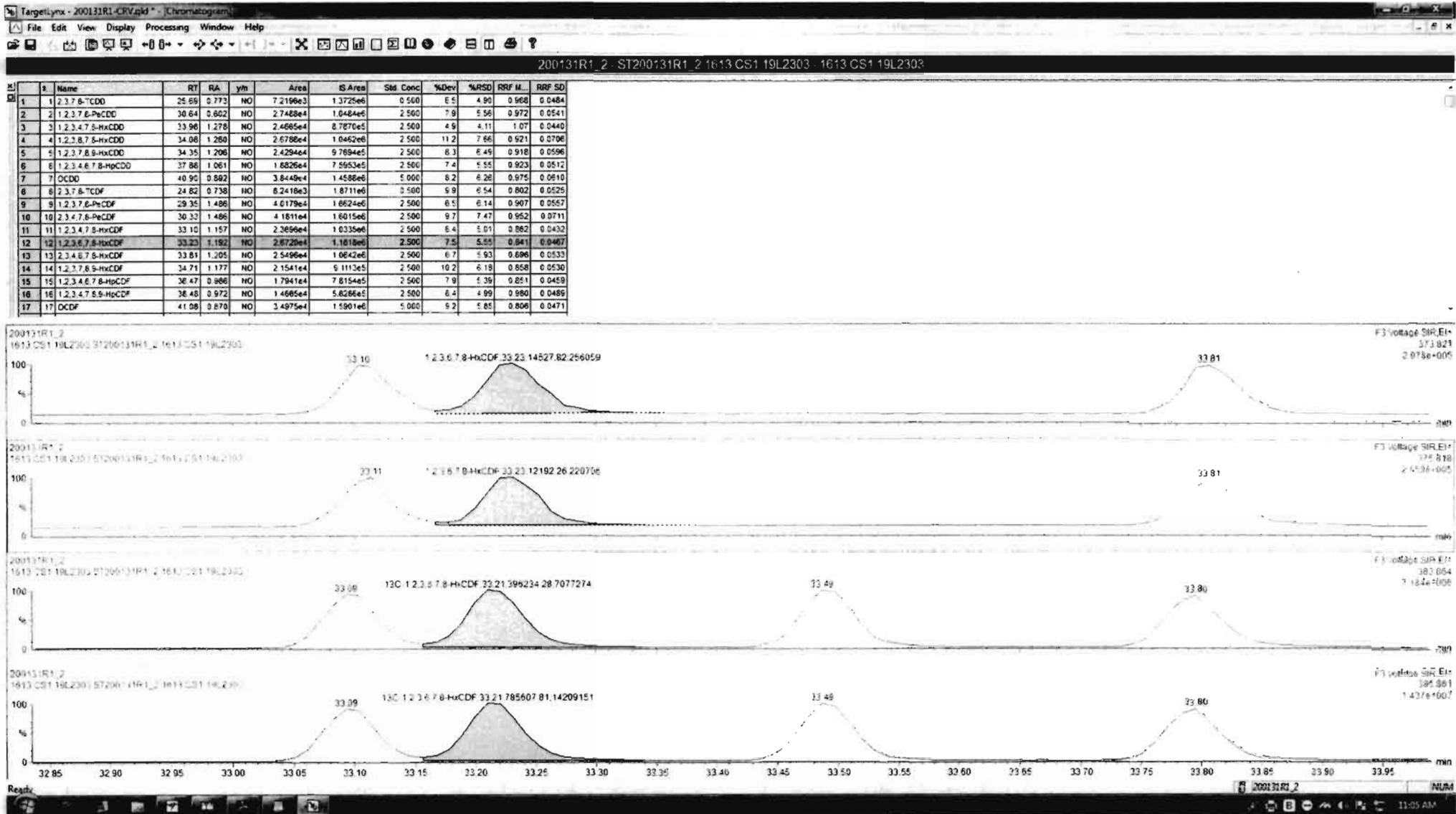


DPE3

200131R1_2







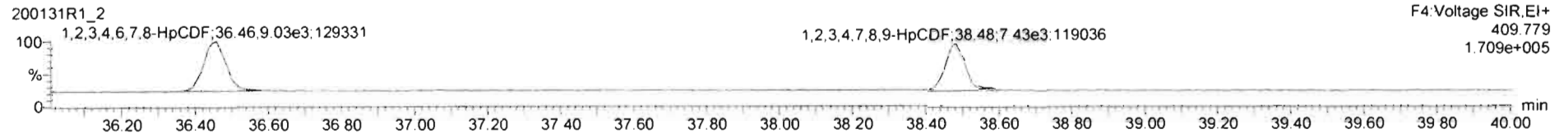
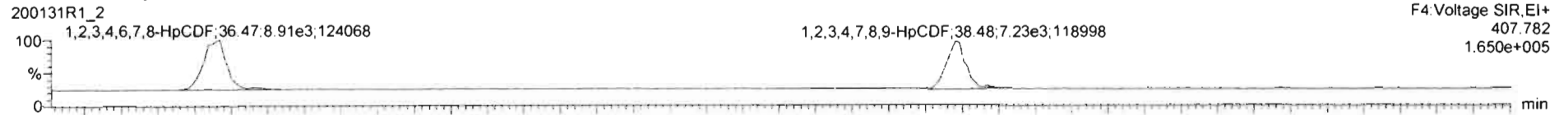
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

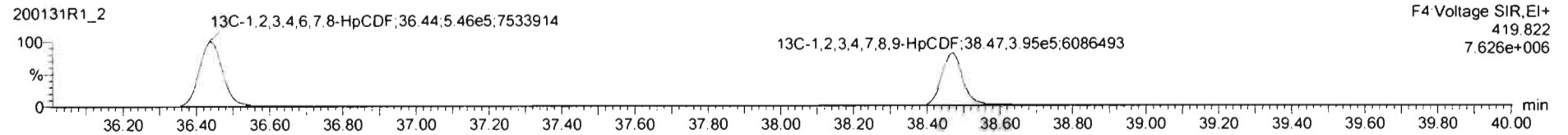
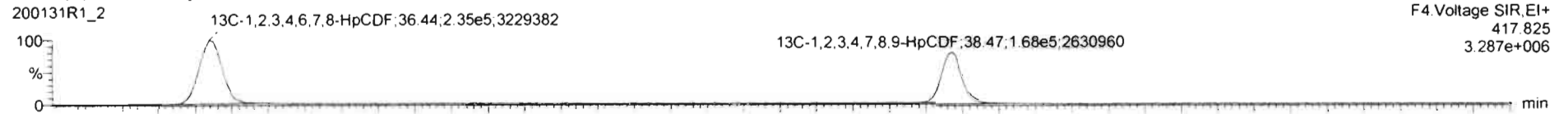
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

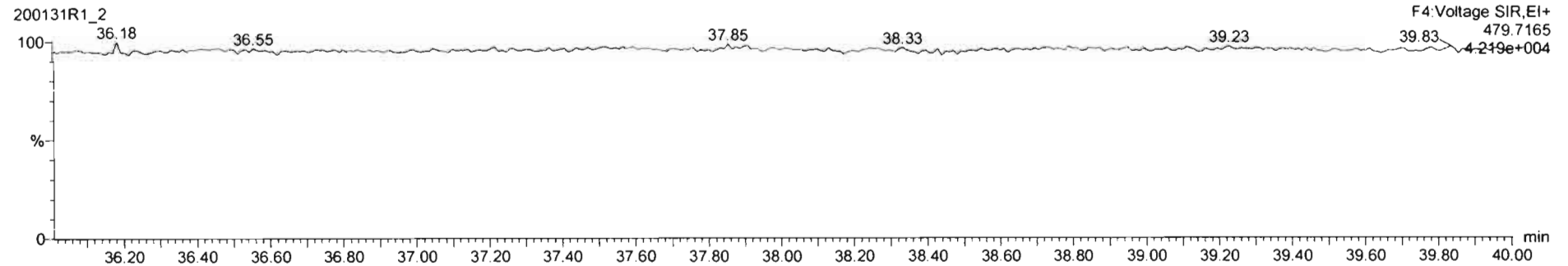
1,2,3,4,6,7,8-HpCDF



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



DPE4

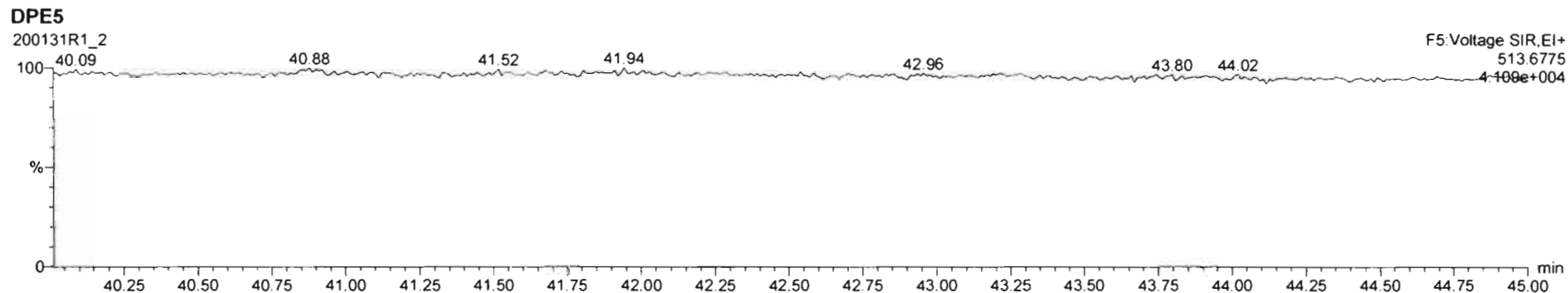
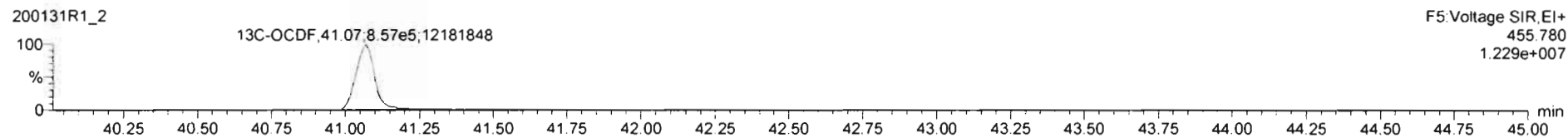
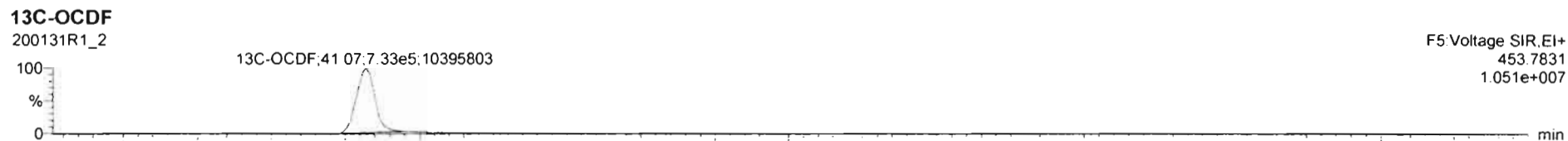
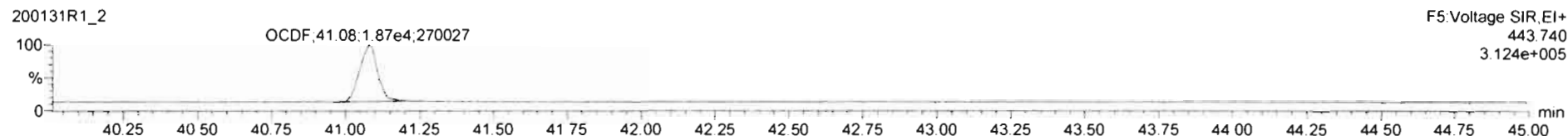
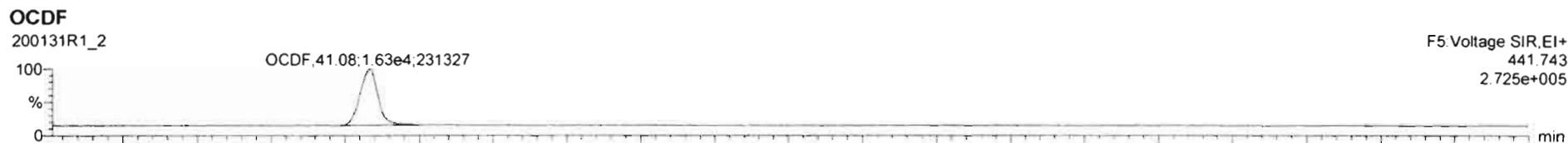


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

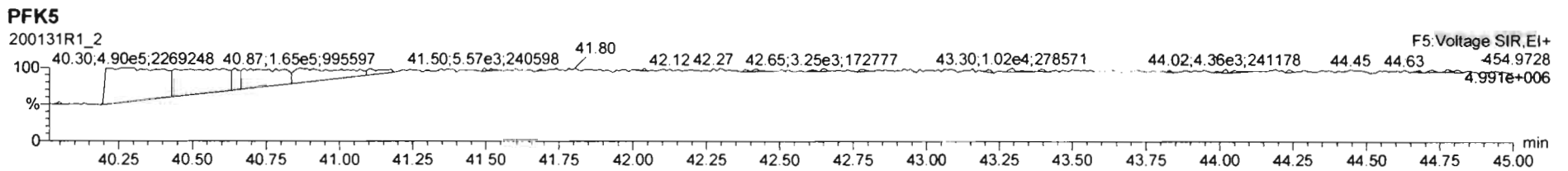
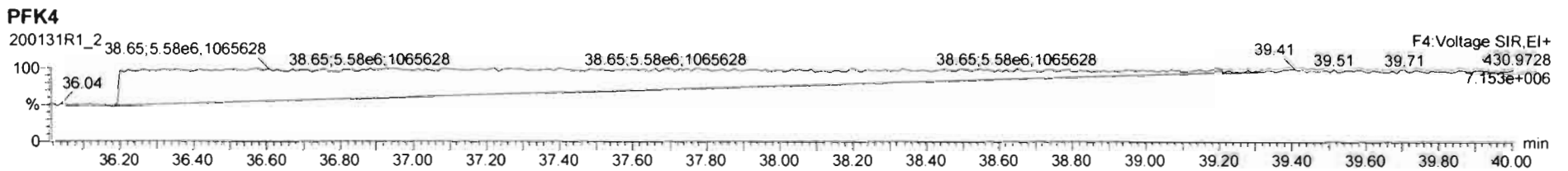
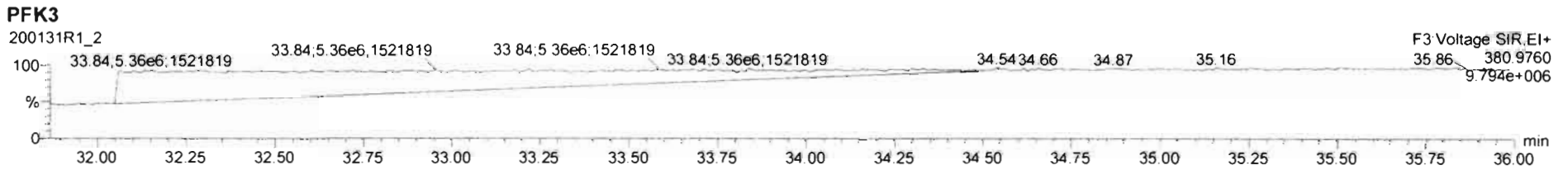
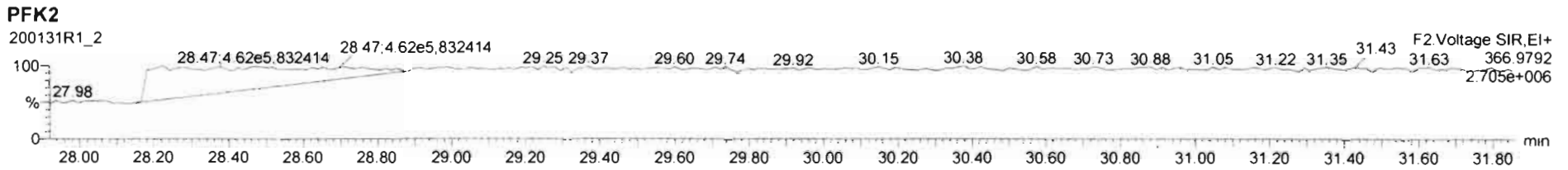
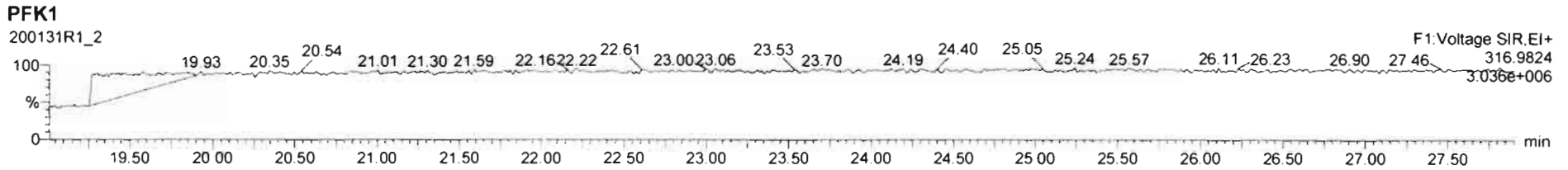


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



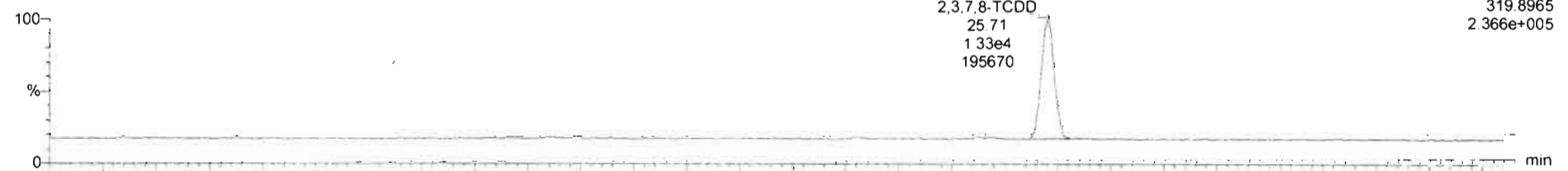
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

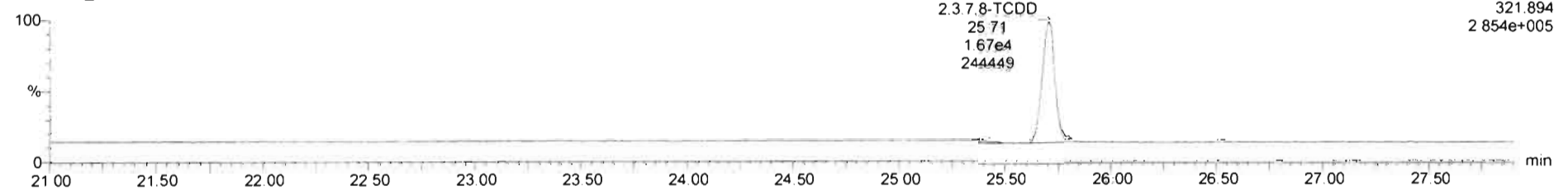
Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

2,3,7,8-TCDD

200131R1_3

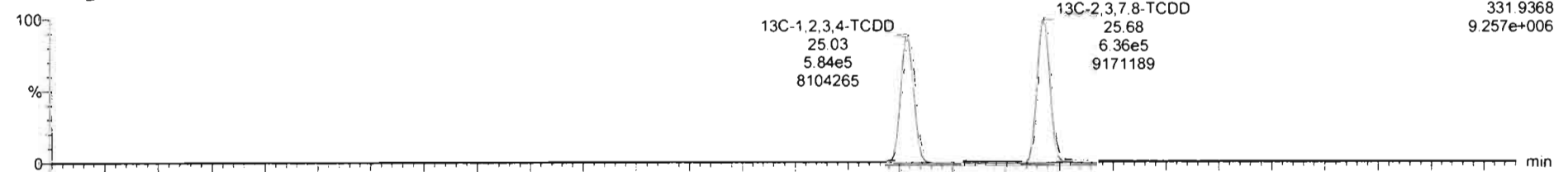


200131R1_3

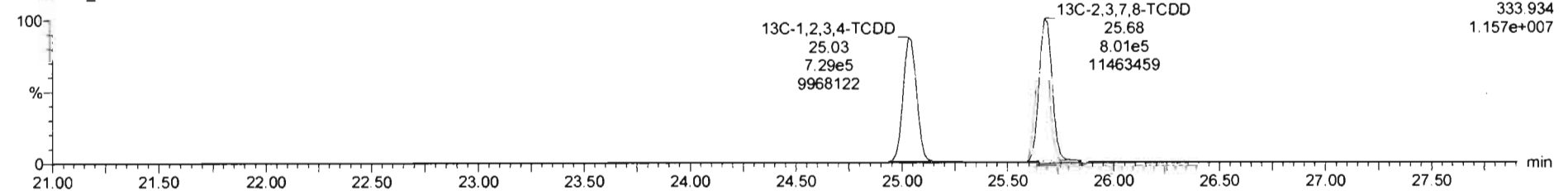


13C-2,3,7,8-TCDD

200131R1_3



200131R1_3



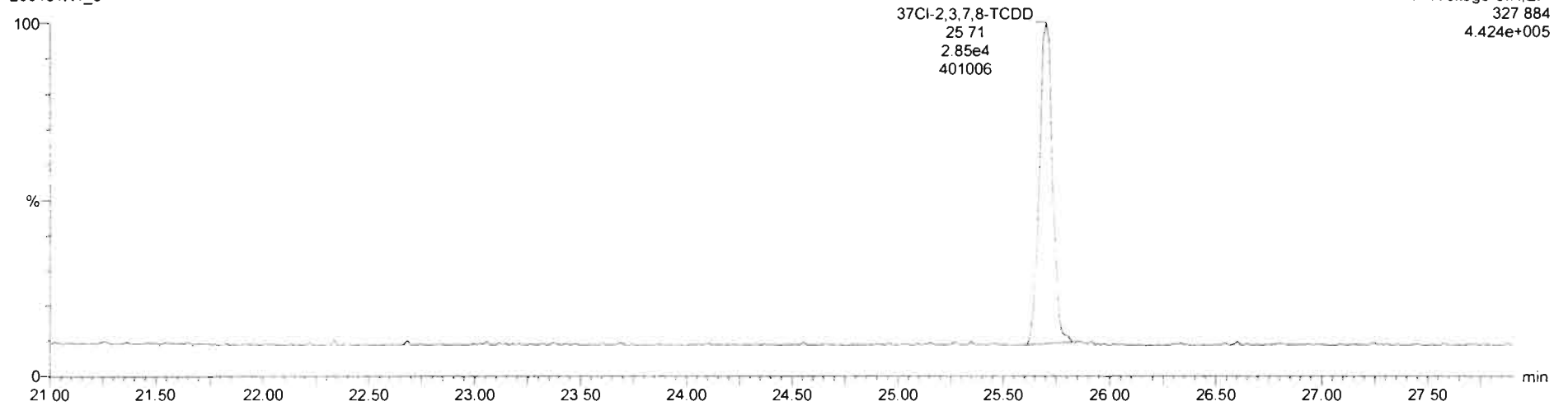
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

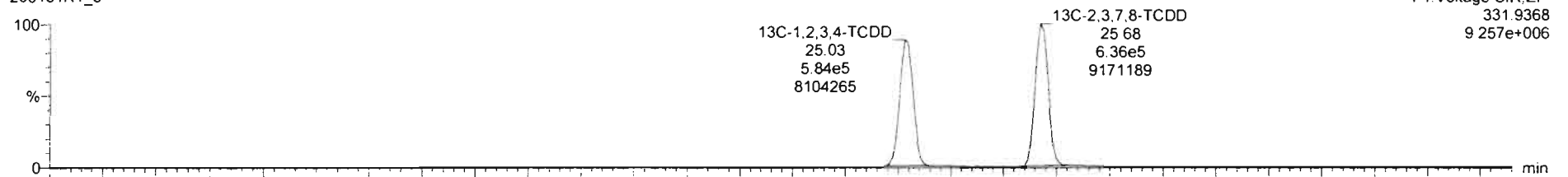
37Cl-2,3,7,8-TCDD

200131R1_3

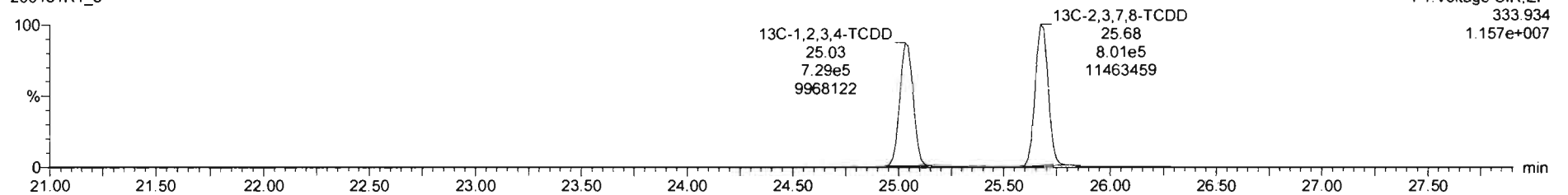


13C-1,2,3,4-TCDD

200131R1_3



200131R1_3



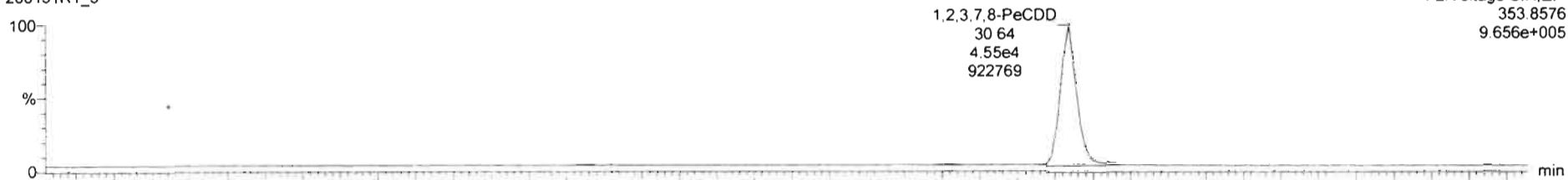
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

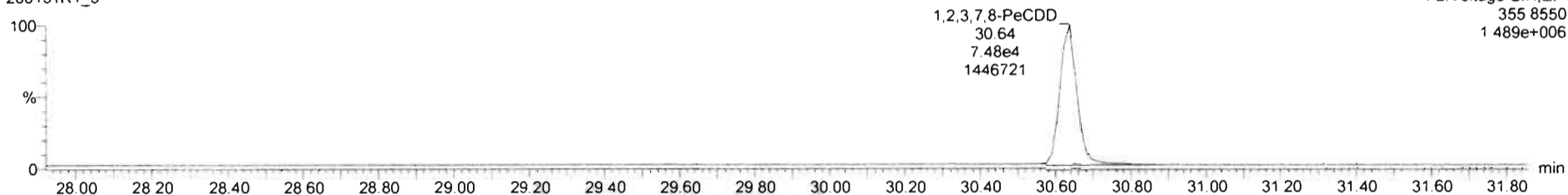
Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1,2,3,7,8-PeCDD

200131R1_3

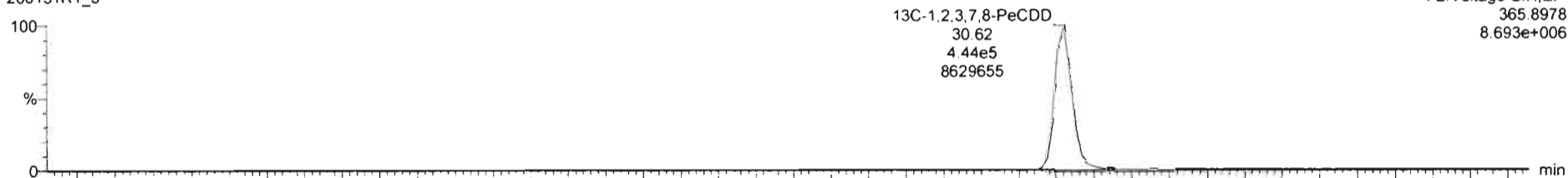


200131R1_3

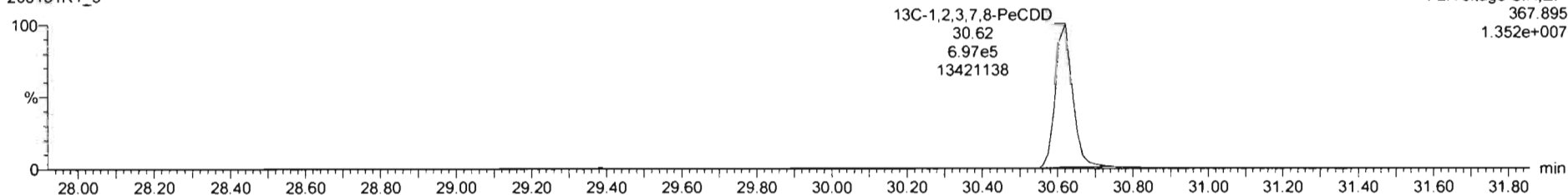


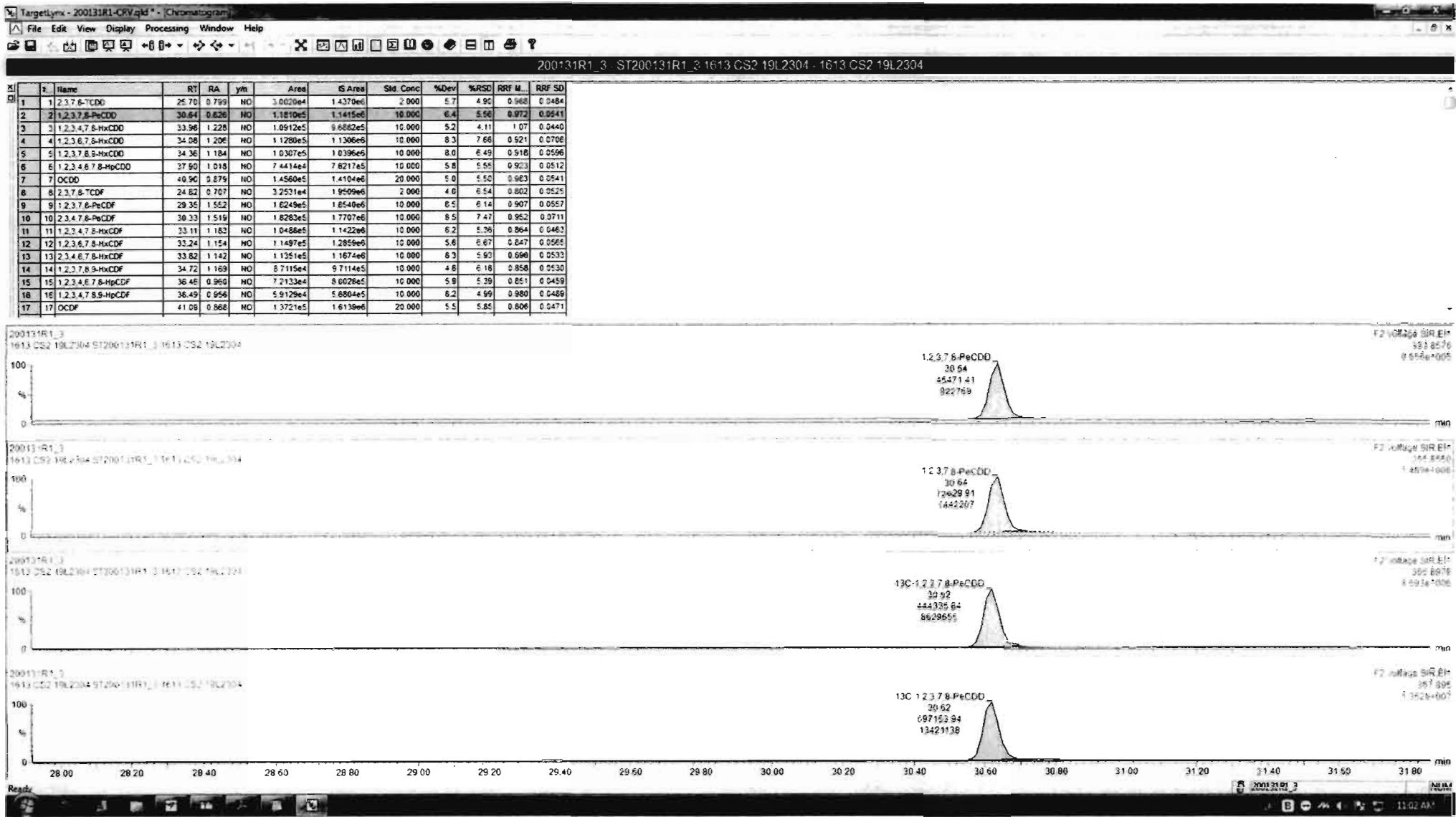
13C-1,2,3,7,8-PeCDD

200131R1_3



200131R1_3





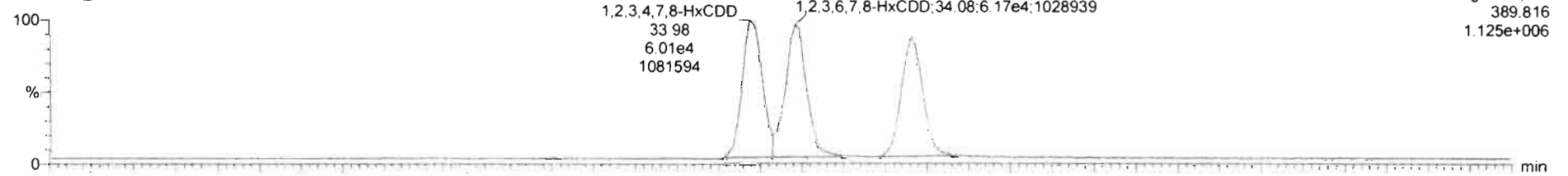
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

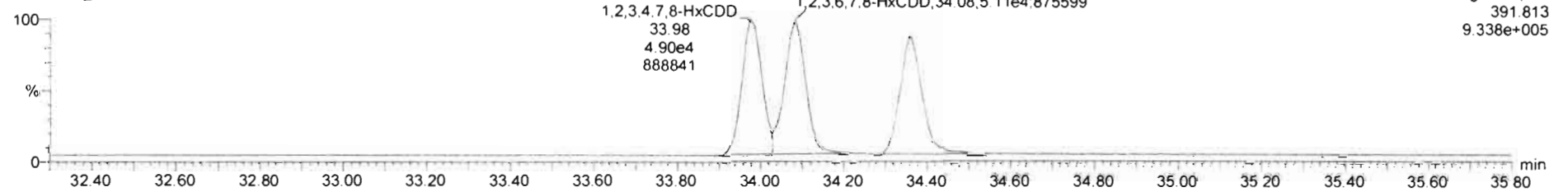
Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200131R1_3

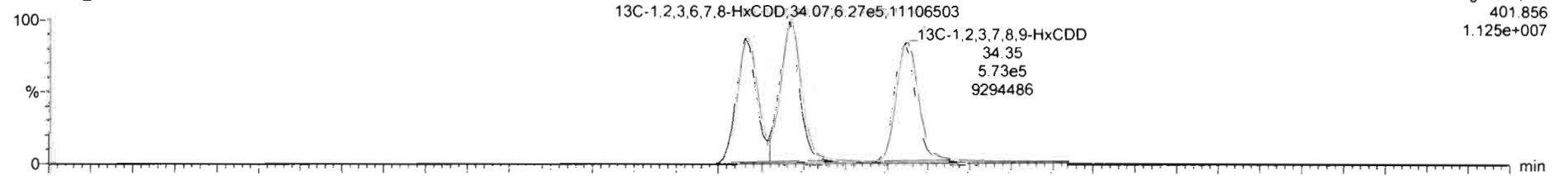


200131R1_3

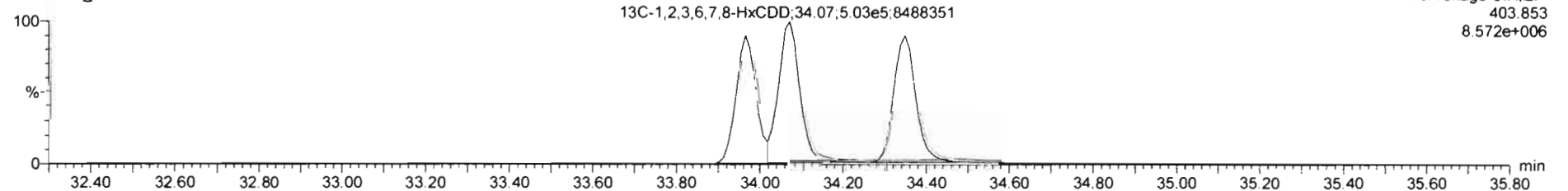


13C-1,2,3,4,7,8-HxCDD

200131R1_3



200131R1_3



Dataset: Untitled

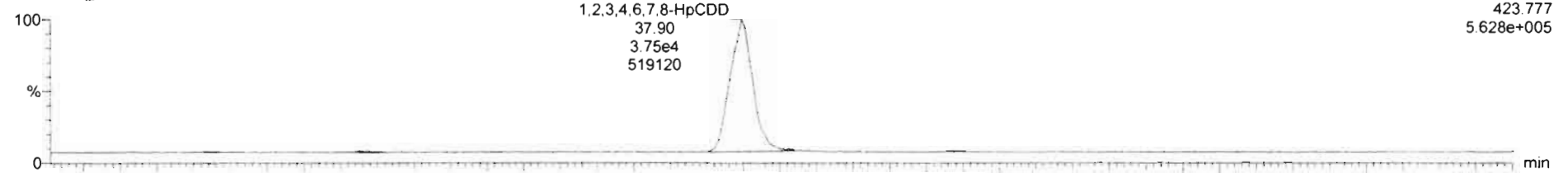
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

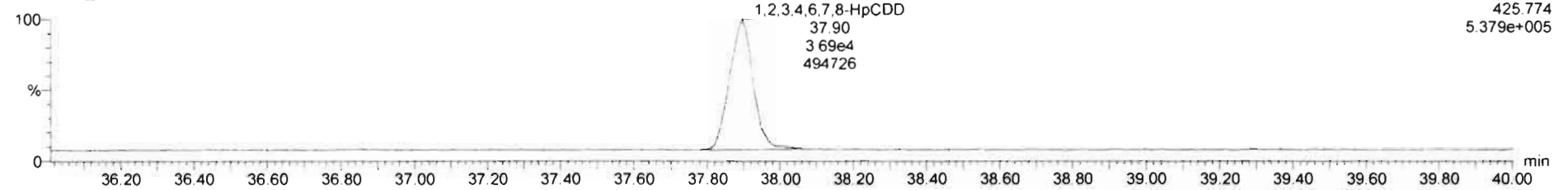
Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200131R1_3

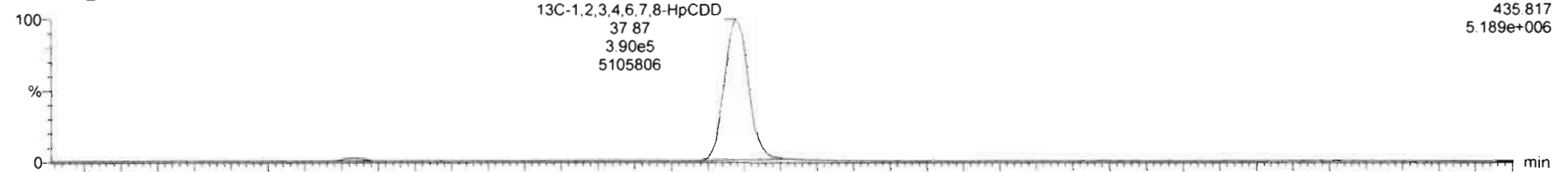


200131R1_3

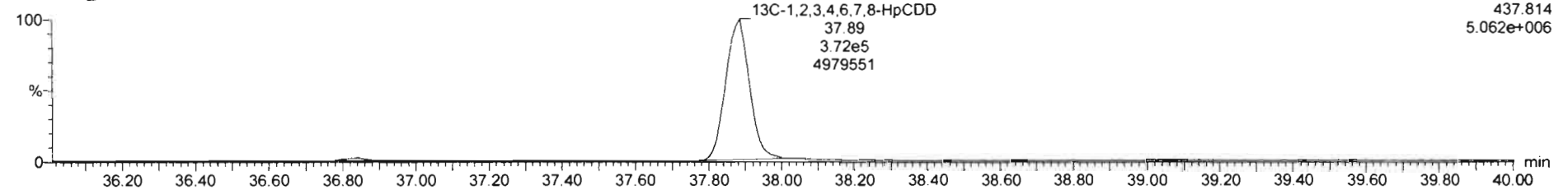


13C-1,2,3,4,6,7,8-HpCDD

200131R1_3



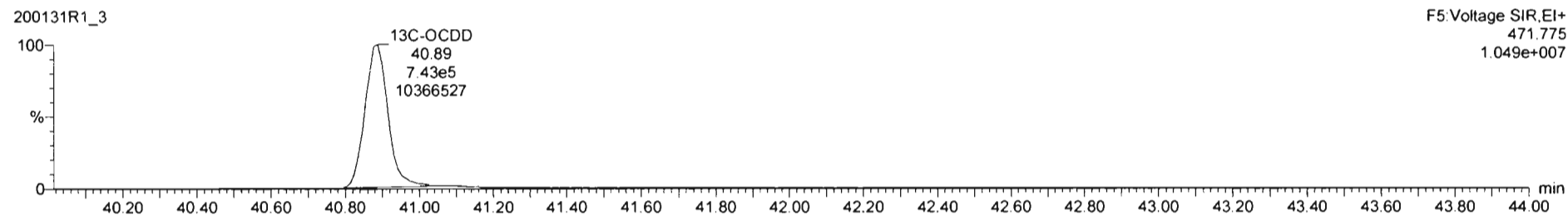
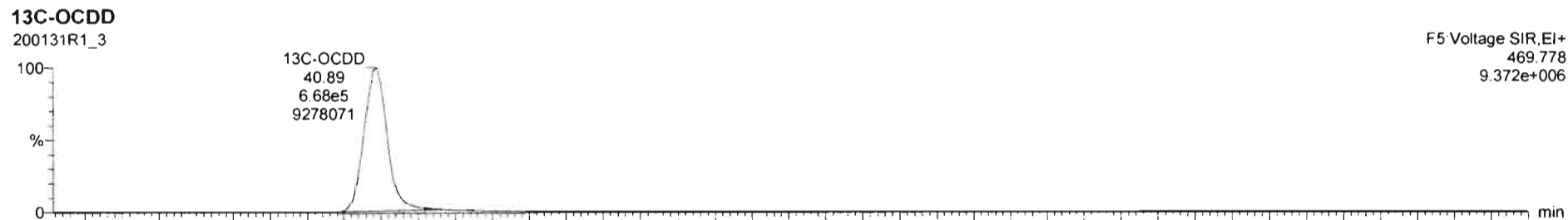
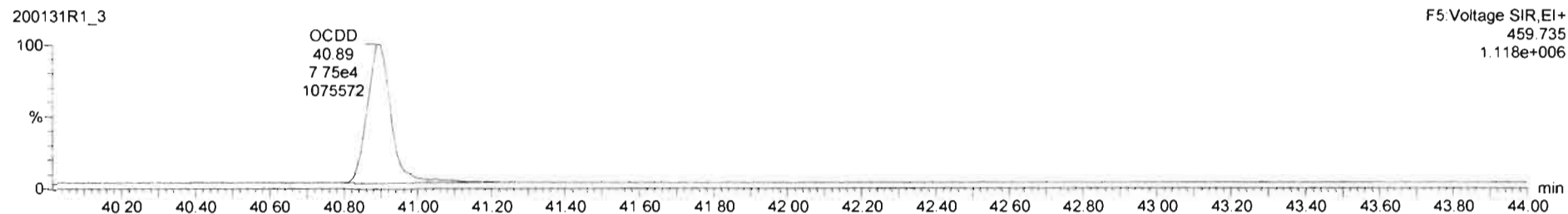
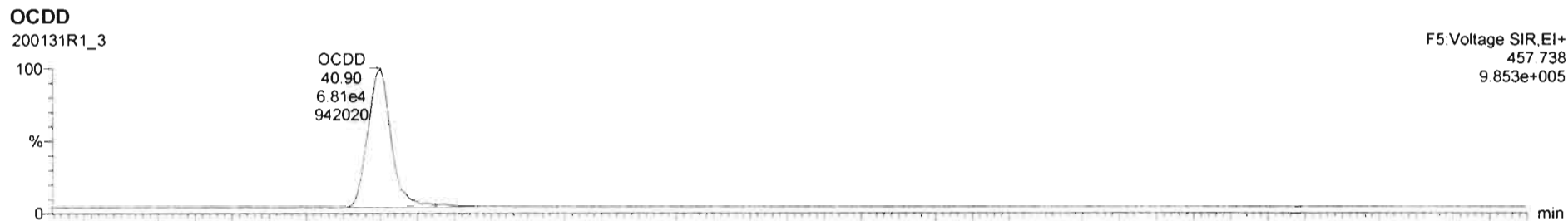
200131R1_3



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



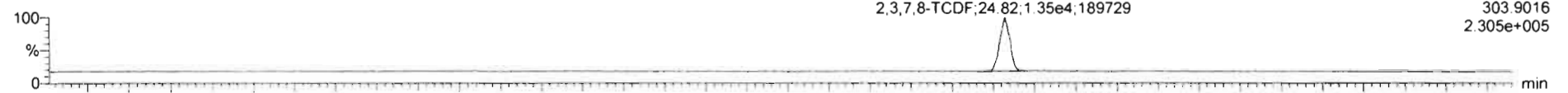
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

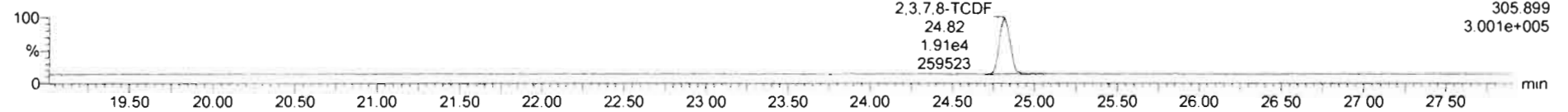
Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

2,3,7,8-TCDF

200131R1_3

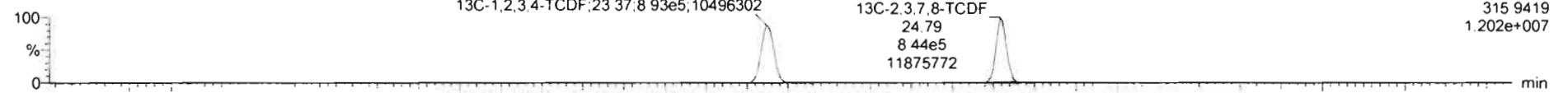


200131R1_3

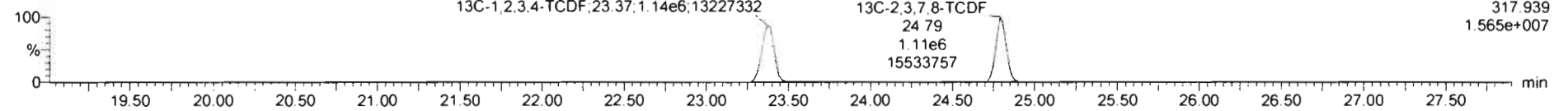


13C-2,3,7,8-TCDF

200131R1_3

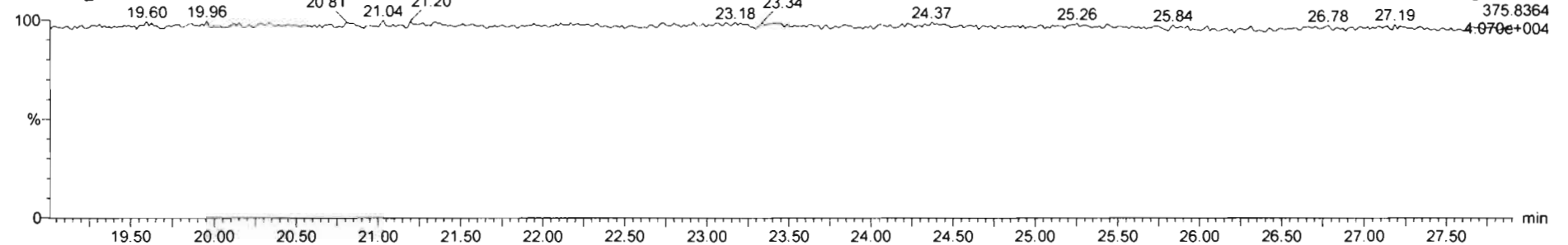


200131R1_3



DPE1

200131R1_3

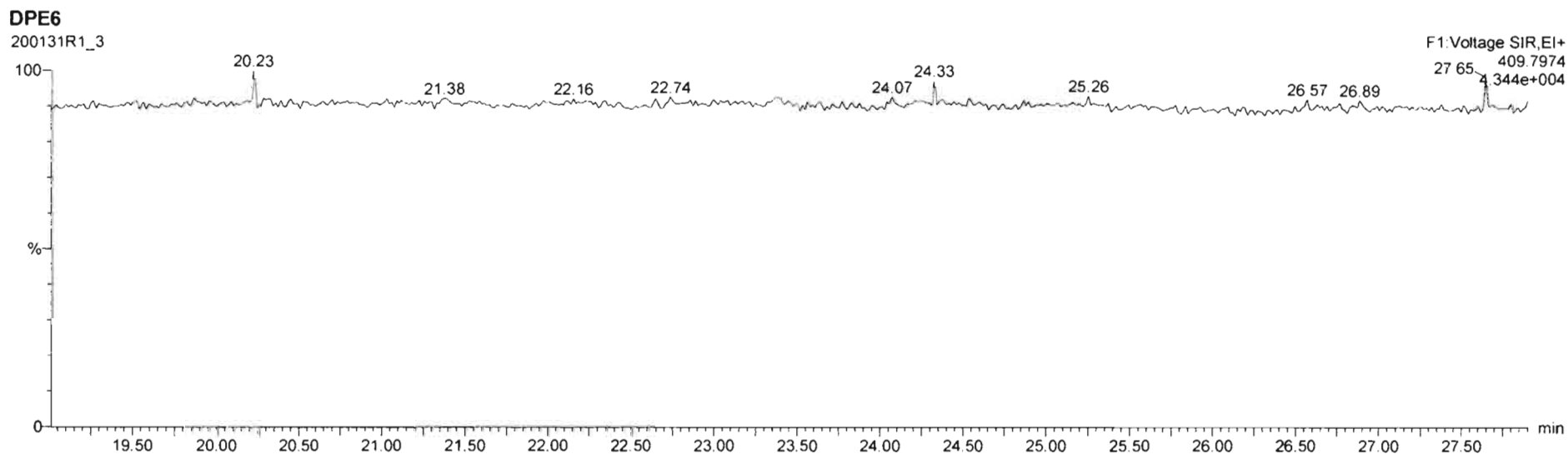
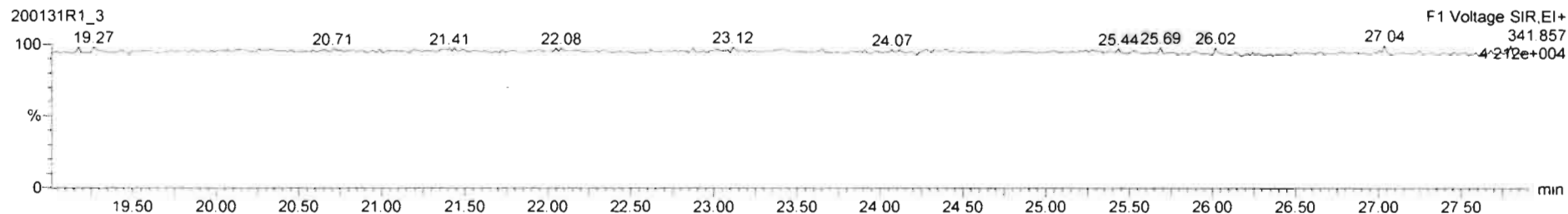
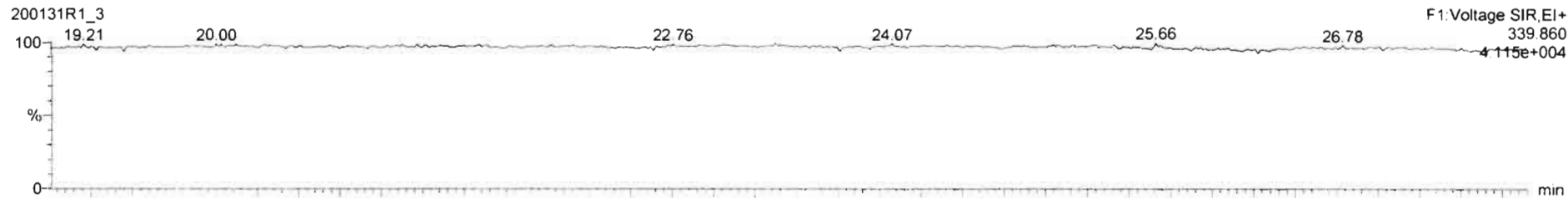


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans



Dataset: Untitled

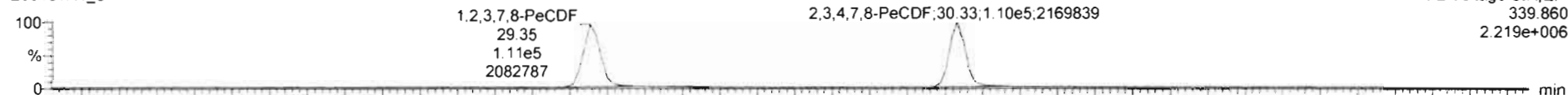
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

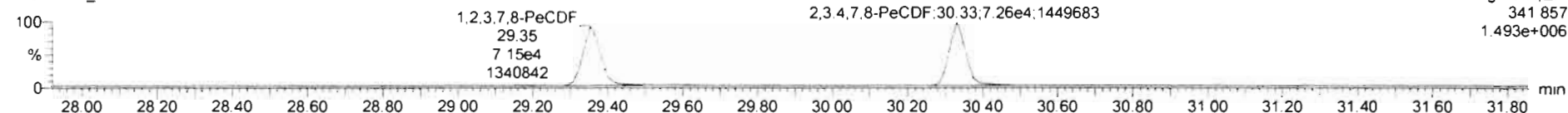
Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1,2,3,7,8-PeCDF

200131R1_3

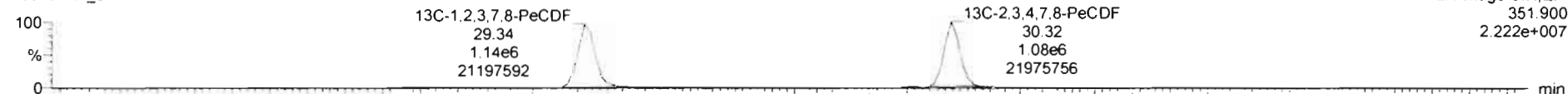


200131R1_3

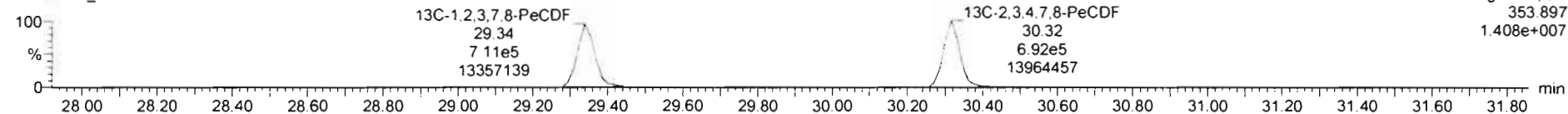


13C-1,2,3,7,8-PeCDF

200131R1_3

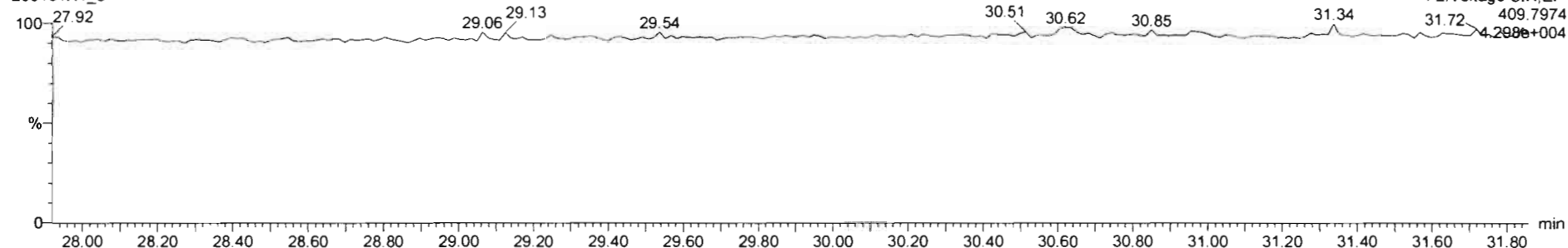


200131R1_3



DPE2

200131R1_3



Dataset: Untitled

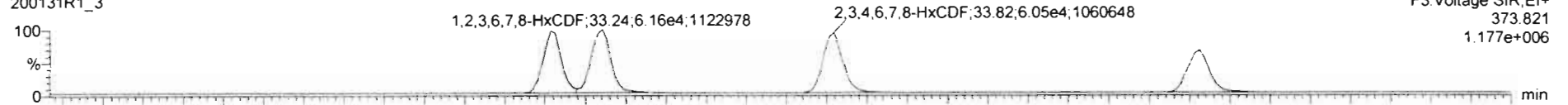
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

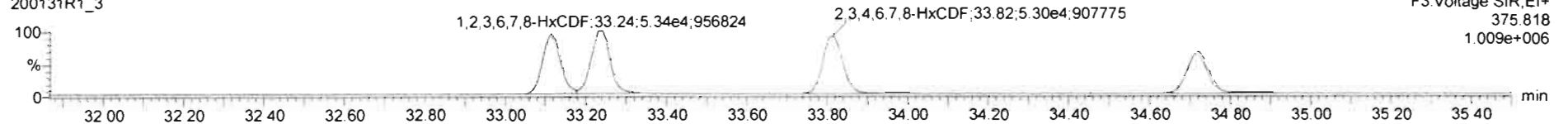
1,2,3,4,7,8-HxCDF

200131R1_3



F3: Voltage SIR, EI+
373.821
1.177e+006

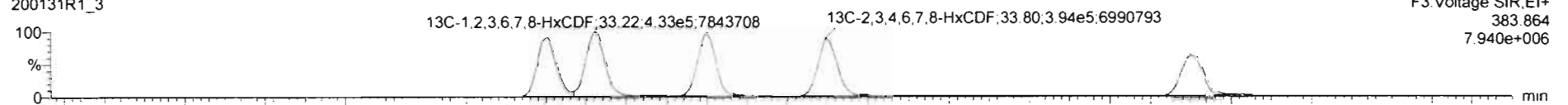
200131R1_3



F3: Voltage SIR, EI+
375.818
1.009e+006

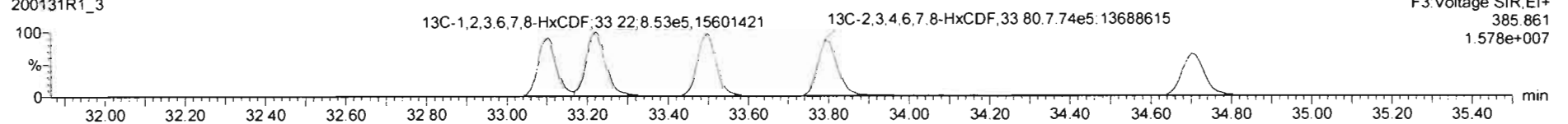
13C-1,2,3,4,7,8-HxCDF

200131R1_3



F3: Voltage SIR, EI+
383.864
7.940e+006

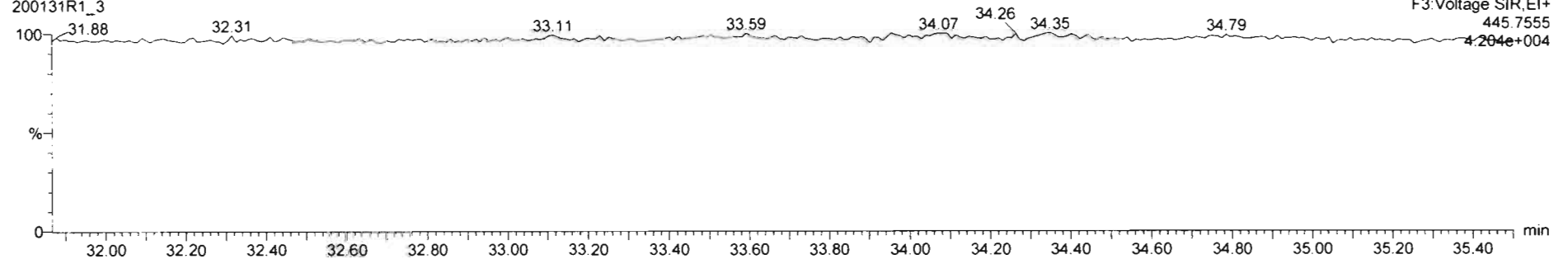
200131R1_3



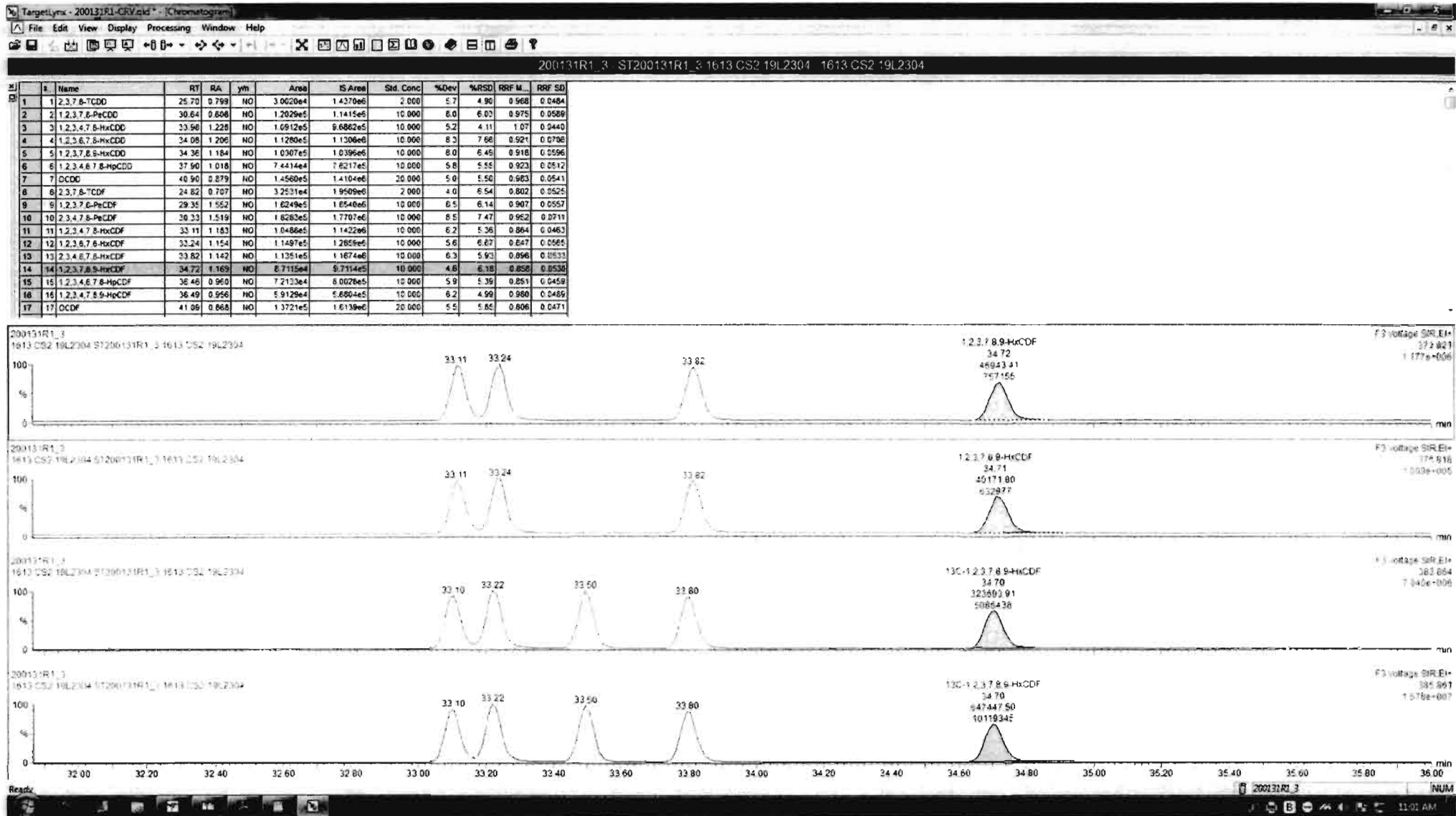
F3: Voltage SIR, EI+
385.861
1.578e+007

DPE3

200131R1_3



F3: Voltage SIR, EI+
445.7555
4.204e+004



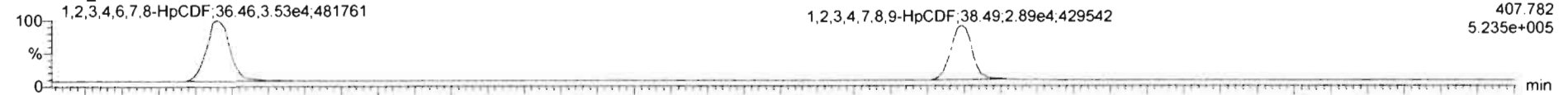
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

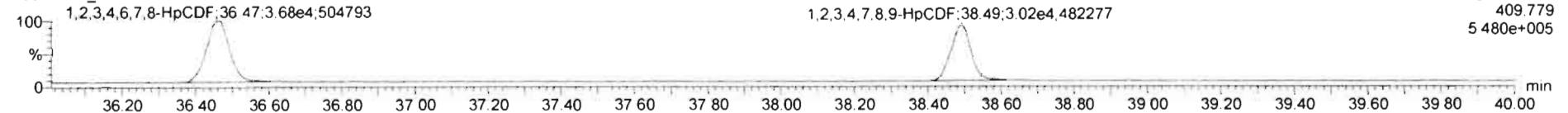
Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200131R1_3

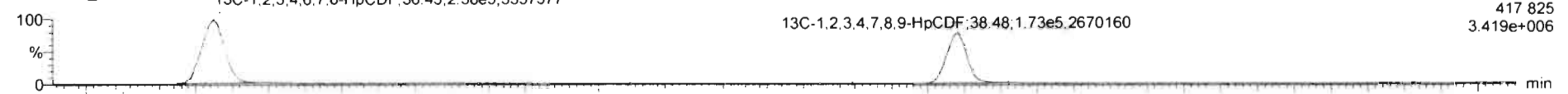


200131R1_3

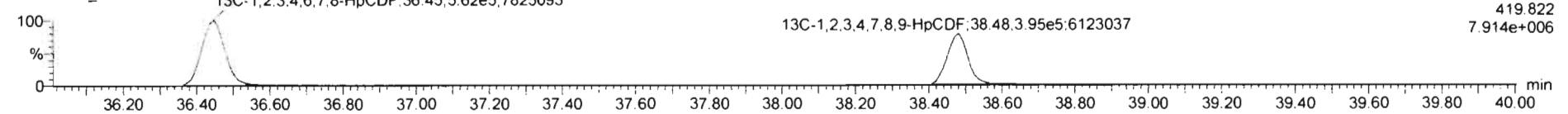


13C-1,2,3,4,6,7,8-HpCDF

200131R1_3

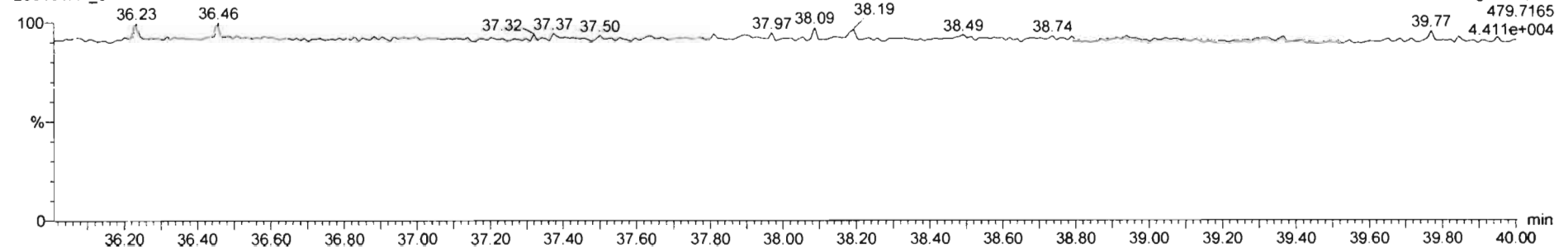


200131R1_3



DPE4

200131R1_3



Dataset: Untitled

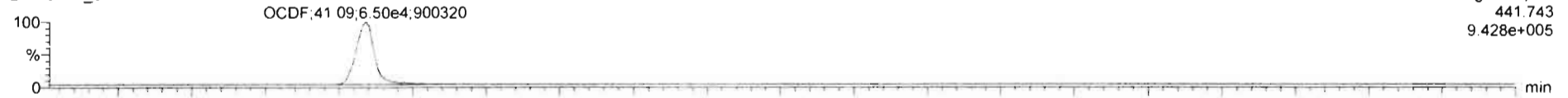
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

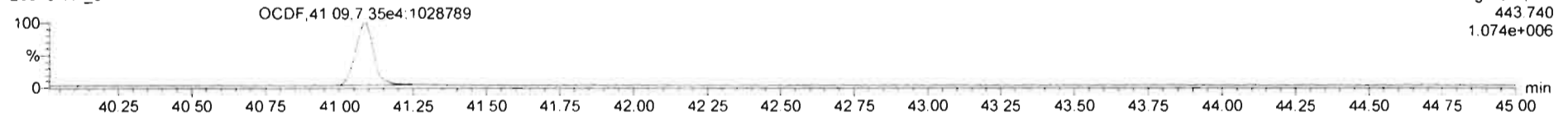
Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

OCDF

200131R1_3

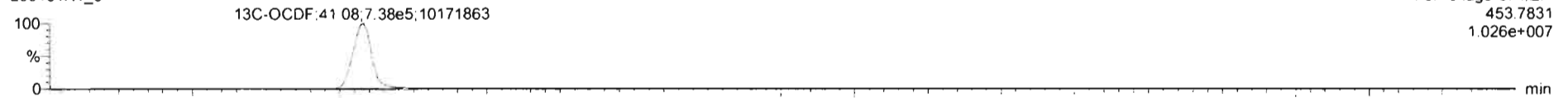


200131R1_3

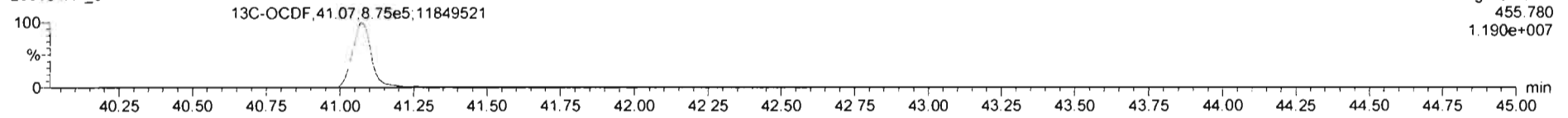


13C-OCDF

200131R1_3

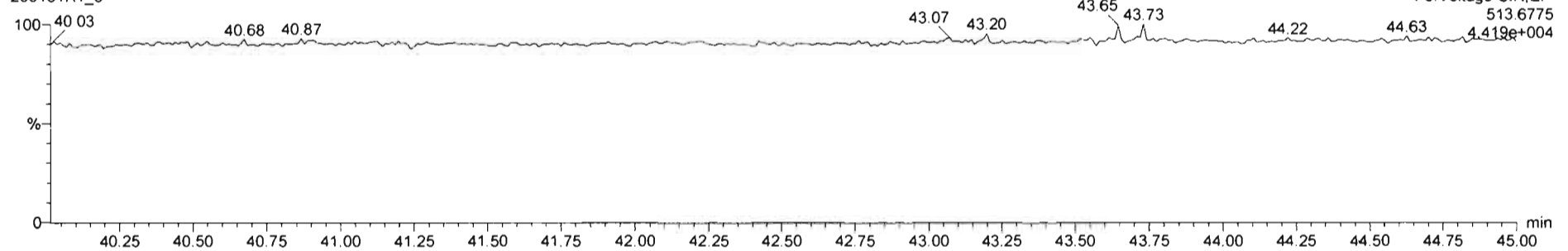


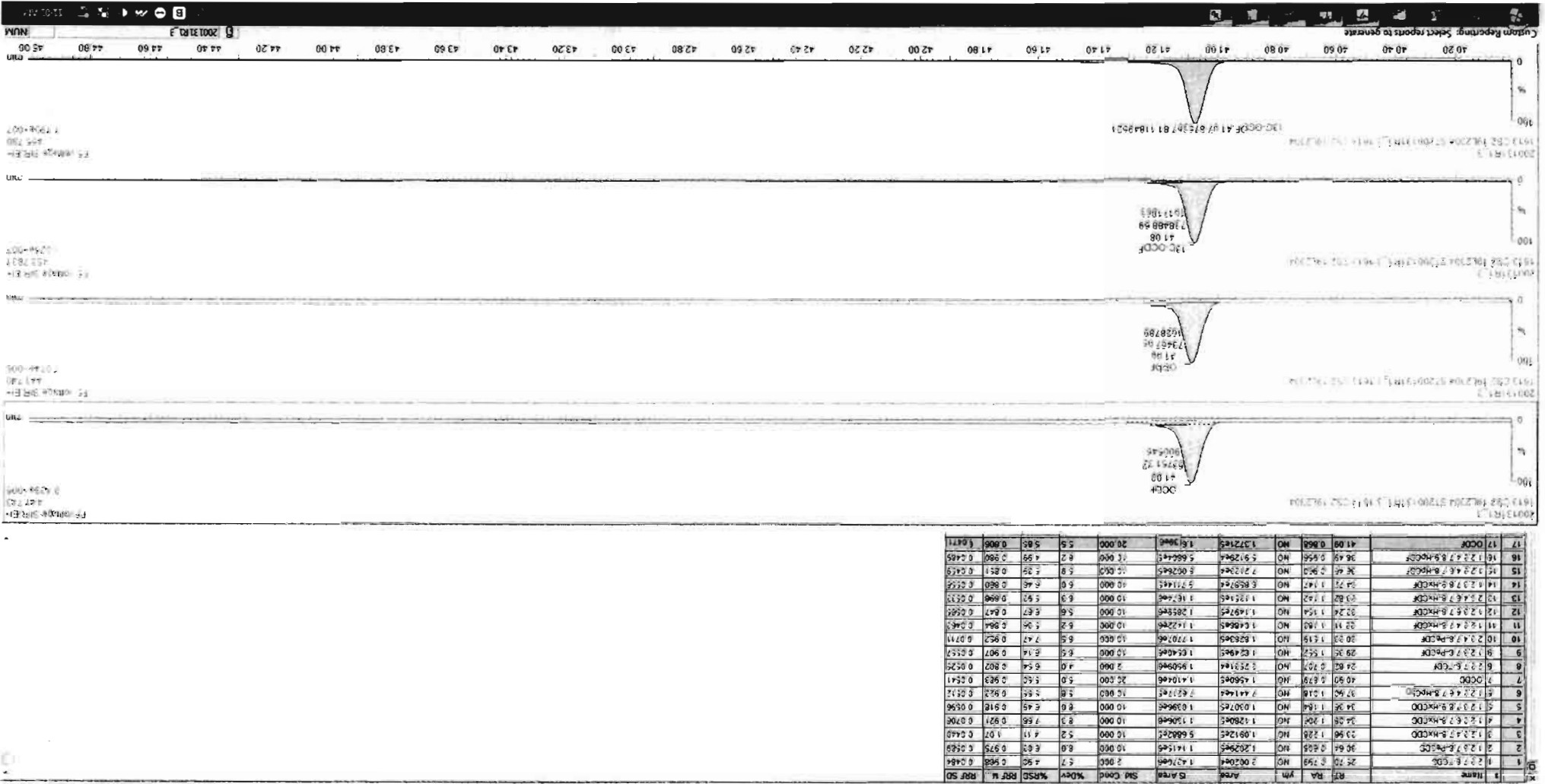
200131R1_3



DPE5

200131R1_3





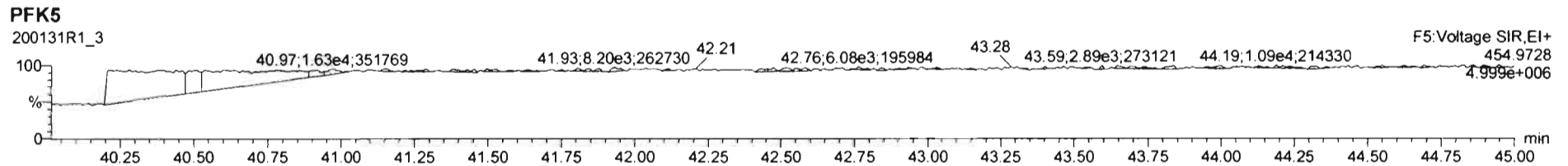
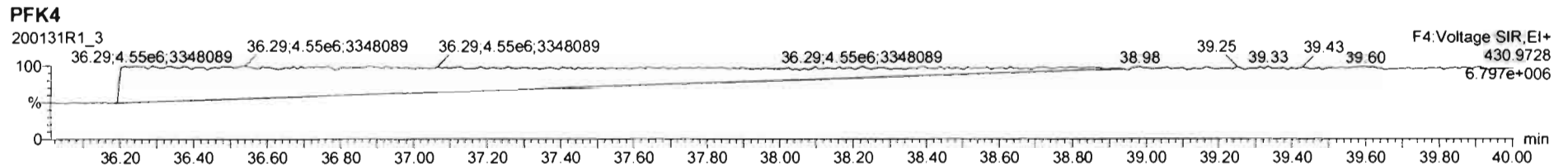
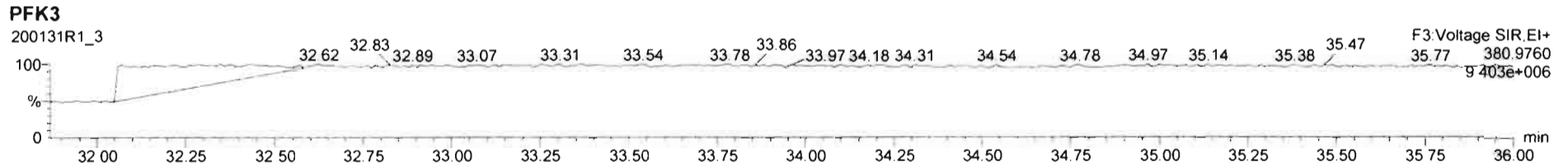
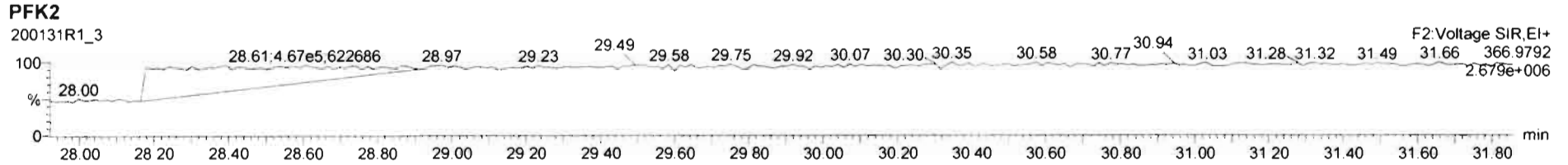
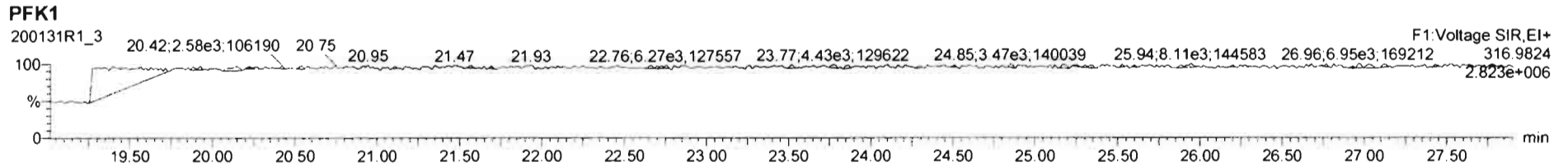
ID	Name	RT	PA	Yth	Area	Sid Cond	%RSS	RFR H	RFR SD
1	1 2 2 2 2 2 ODP	26.70	0.799	NO	2.00204	1.42746	2.96	1.90	0.968
2	2 2 2 2 2 2 ODP	36.64	0.805	NO	1.20295	1.14155	10.00	6.0	0.449
3	3 3 3 3 3 3 ODP	33.94	1.228	NO	1.09124	5.68825	10.00	5.2	1.07
4	4 4 4 4 4 4 ODP	34.08	1.206	NO	1.12804	1.13066	10.00	8.3	0.706
5	5 5 5 5 5 5 ODP	34.36	1.164	NO	1.03075	1.03665	10.00	6.0	0.936
6	6 6 6 6 6 6 ODP	37.50	1.018	NO	7.44144	2.62774	10.00	5.0	0.932
7	7 7 7 7 7 7 ODP	40.80	0.879	NO	1.15605	1.41046	20.00	5.0	0.983
8	8 8 8 8 8 8 ODP	24.00	0.707	NO	1.25314	1.95096	2.000	4.0	0.807
9	9 9 9 9 9 9 ODP	29.26	1.552	NO	1.63486	1.05404	10.00	6.5	0.907
10	10 10 10 10 10 ODP	20.20	1.119	NO	1.62068	1.77076	10.00	6.5	0.927
11	11 11 11 11 11 ODP	22.10	1.110	NO	1.64065	1.14226	10.00	6.2	0.964
12	12 12 12 12 12 ODP	32.24	1.154	NO	1.14974	1.28586	10.00	5.6	0.847
13	13 13 13 13 13 ODP	30.80	1.142	NO	1.13514	1.16746	10.00	6.3	0.898
14	14 14 14 14 14 ODP	34.20	1.147	NO	6.68974	5.71144	10.00	6.0	0.860
15	15 15 15 15 15 ODP	36.46	0.900	NO	7.21244	6.02845	10.00	5.9	0.851
16	16 16 16 16 16 ODP	38.48	0.956	NO	5.91264	5.66443	10.00	6.7	0.900
17	17 17 17 17 17 ODP	41.08	0.866	NO	1.37214	4.61964	20.00	5.5	0.806

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

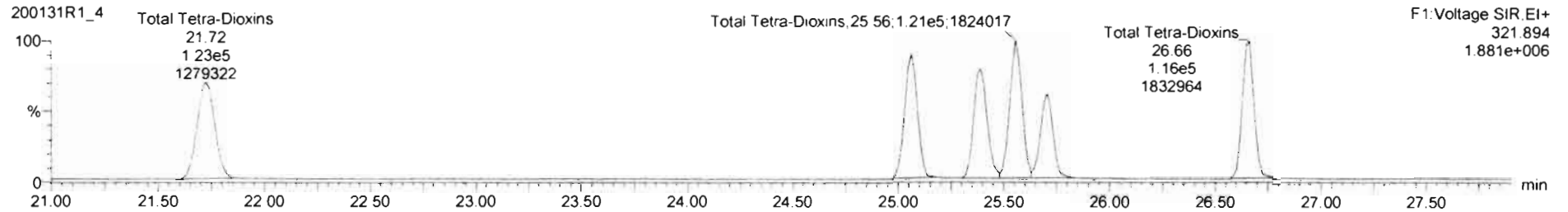
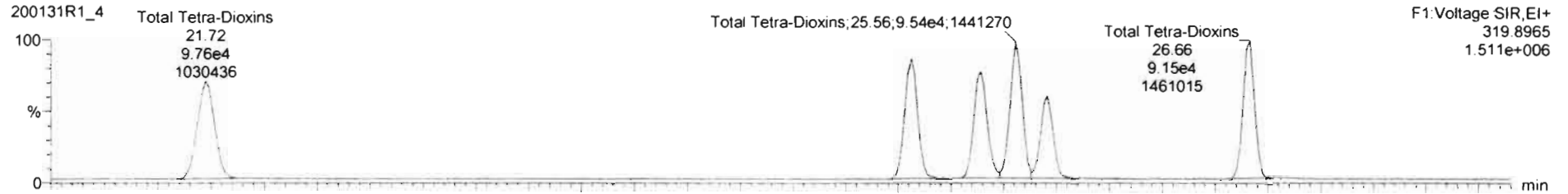


Dataset: Untitled

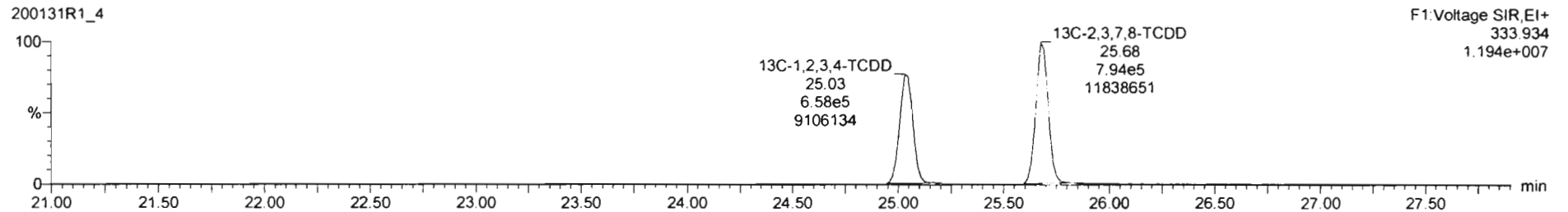
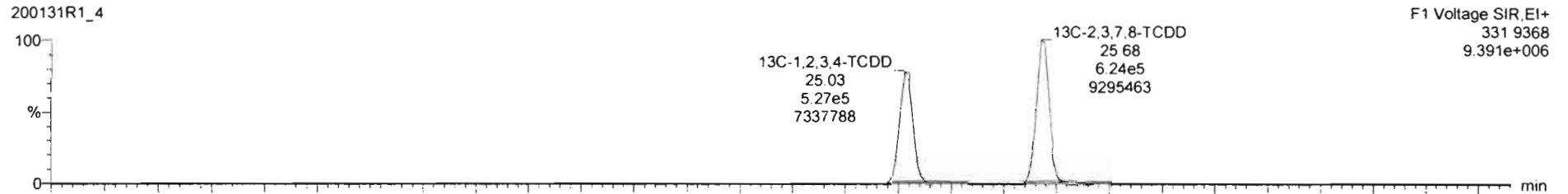
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



Dataset: Untitled

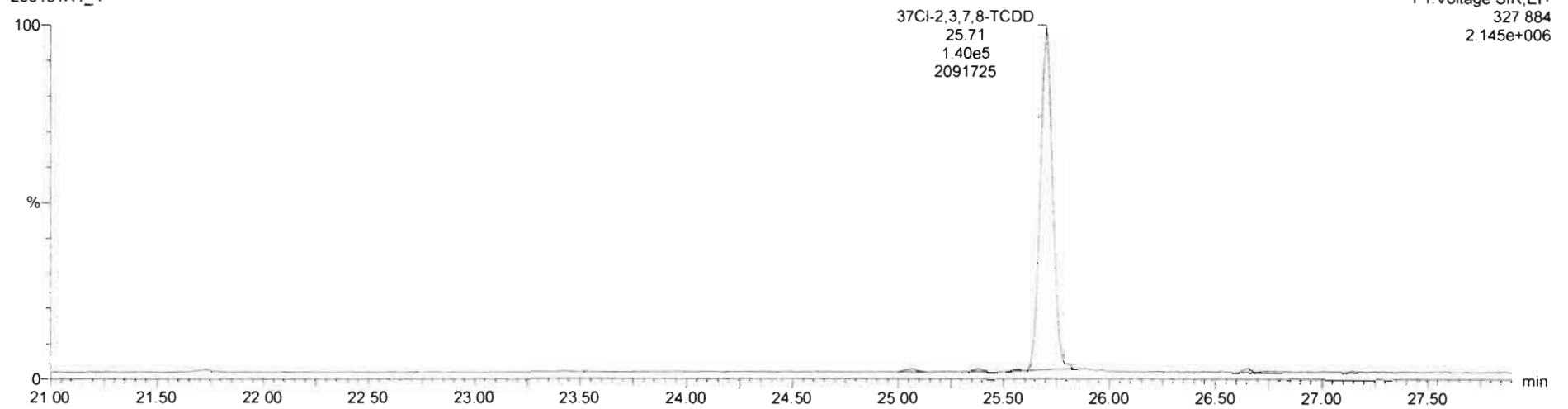
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

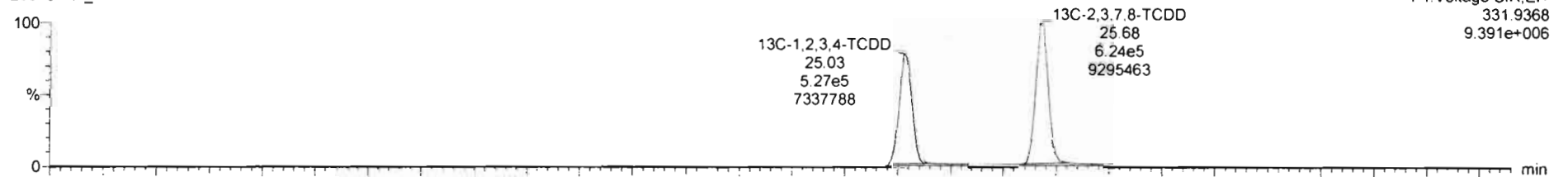
37Cl-2,3,7,8-TCDD

200131R1_4

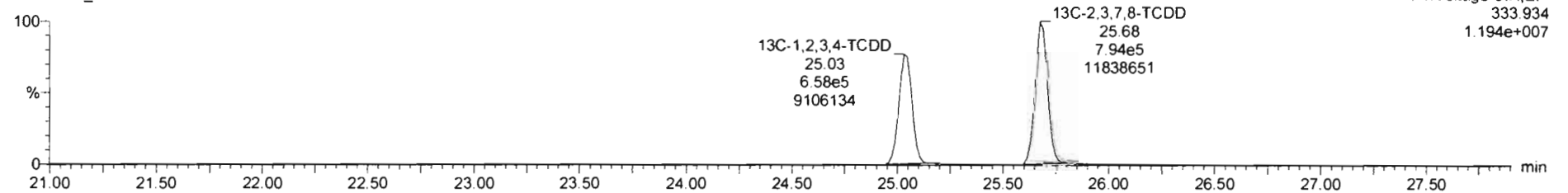


13C-1,2,3,4-TCDD

200131R1_4



200131R1_4

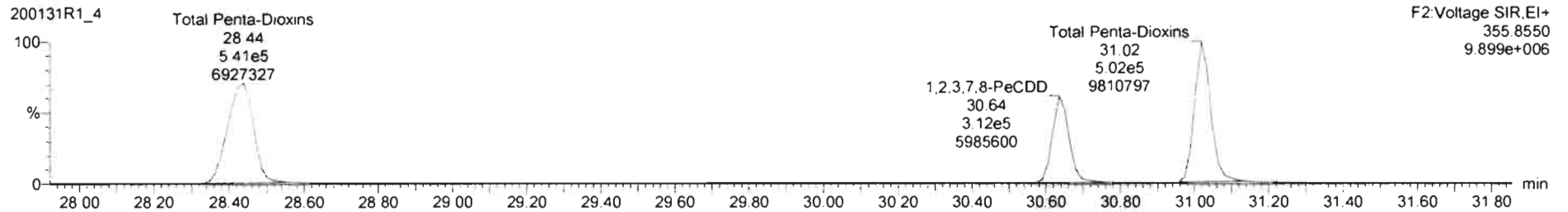
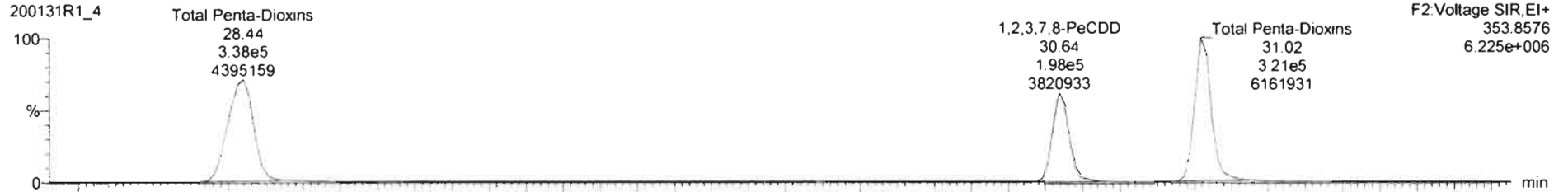


Dataset: Untitled

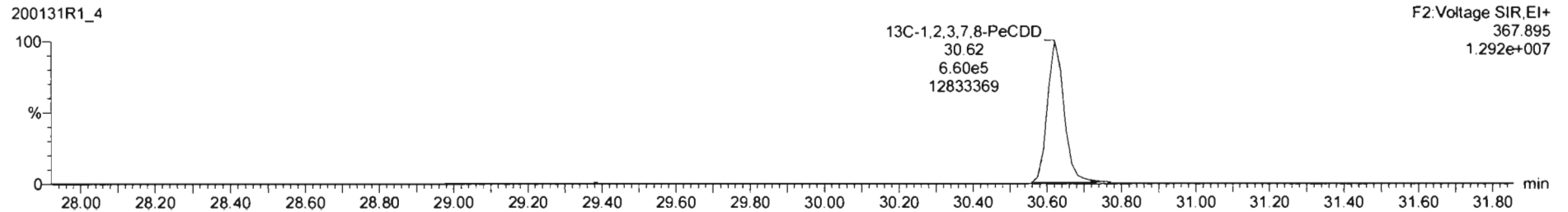
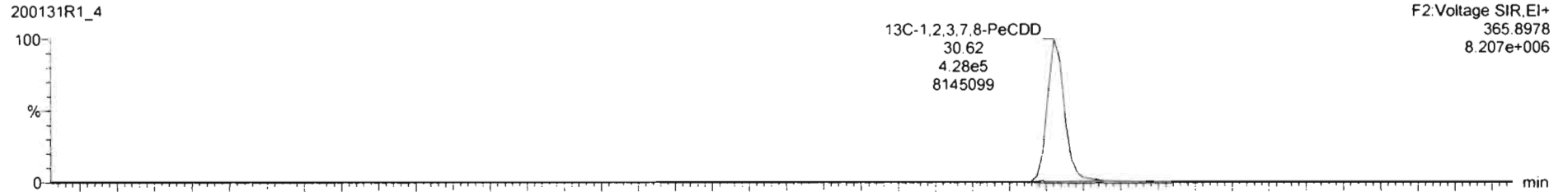
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD



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



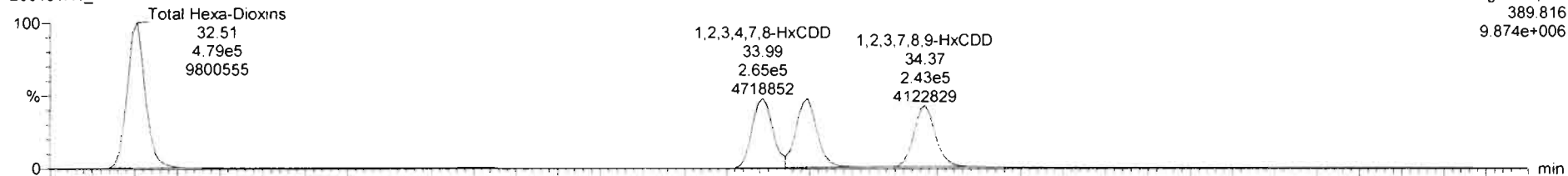
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

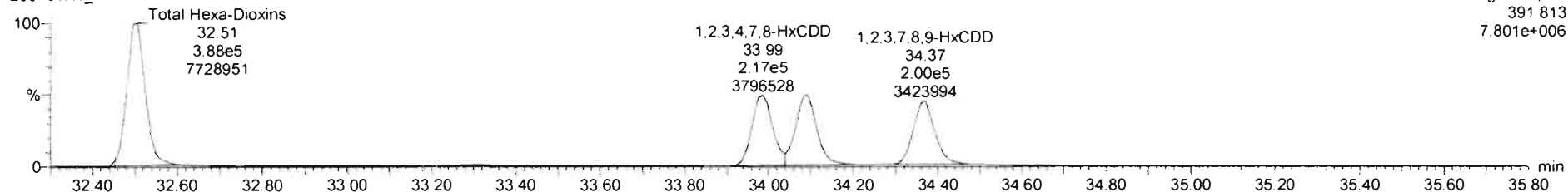
Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200131R1_4

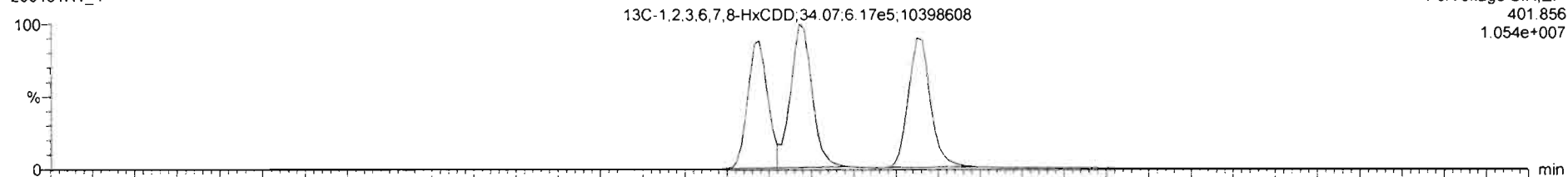


200131R1_4

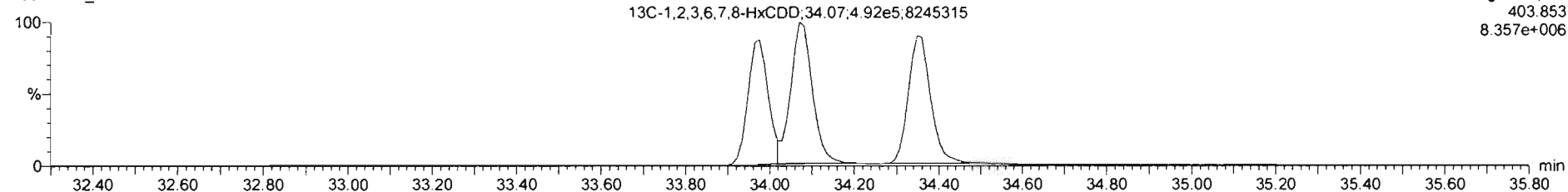


13C-1,2,3,4,7,8-HxCDD

200131R1_4



200131R1_4



Dataset: Untitled

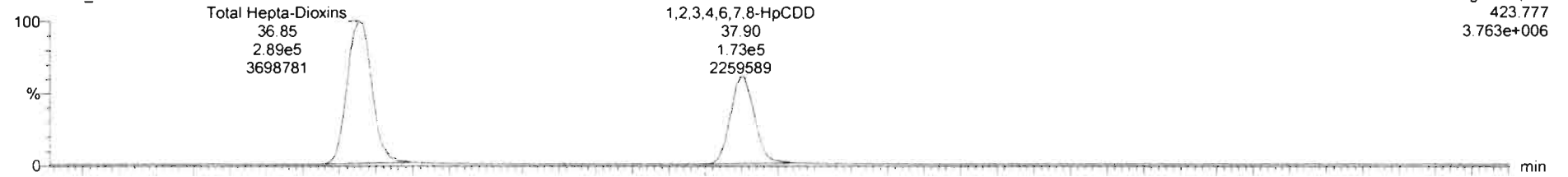
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

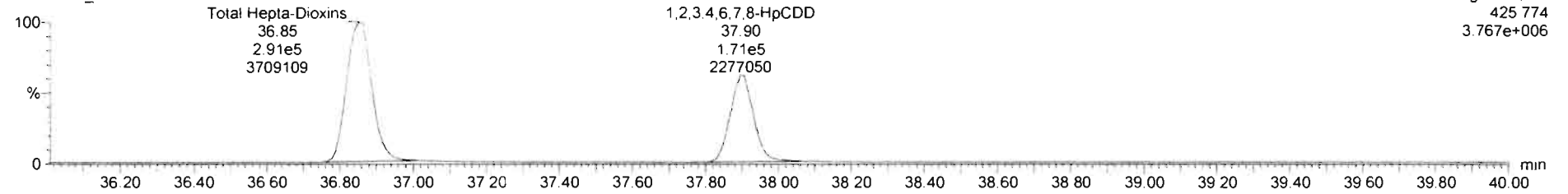
Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200131R1_4

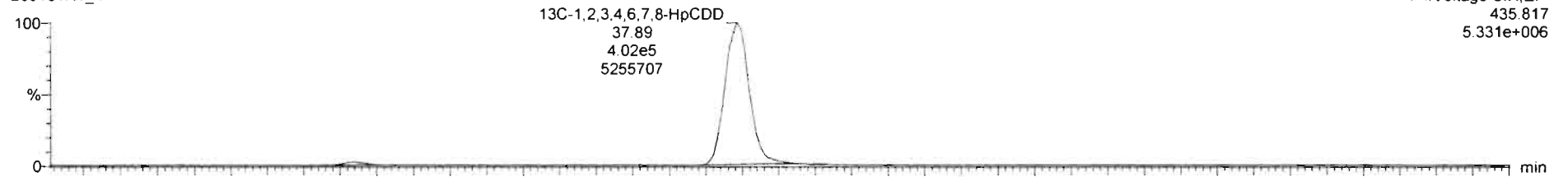


200131R1_4

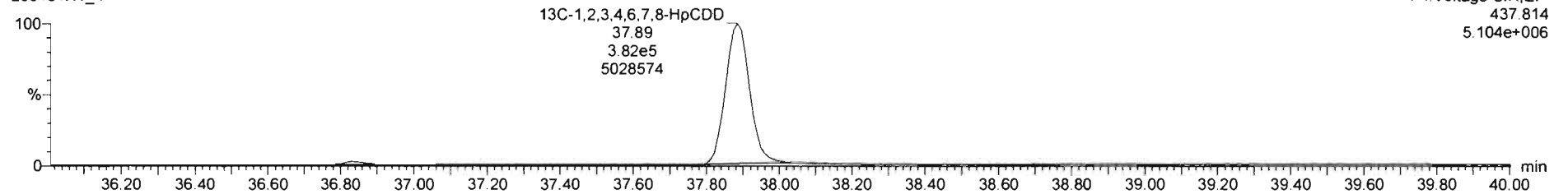


13C-1,2,3,4,6,7,8-HpCDD

200131R1_4



200131R1_4

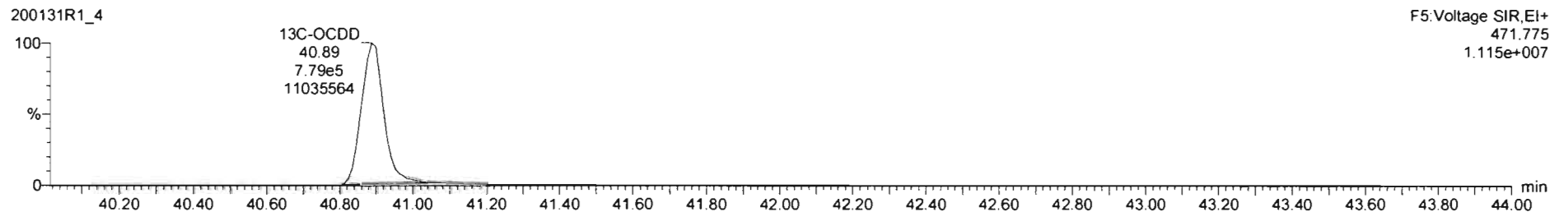
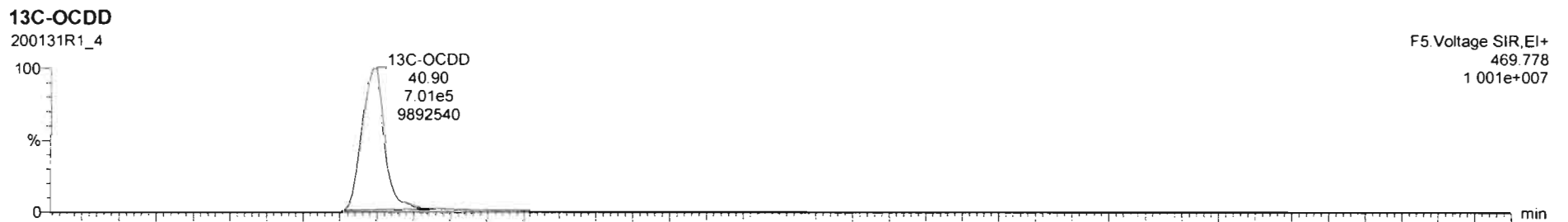
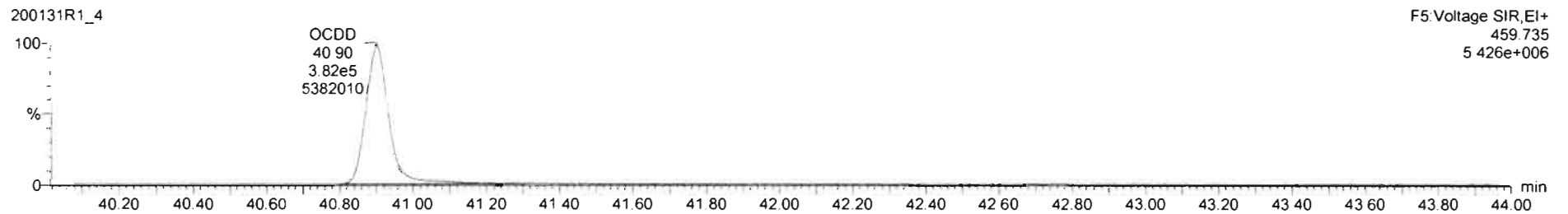
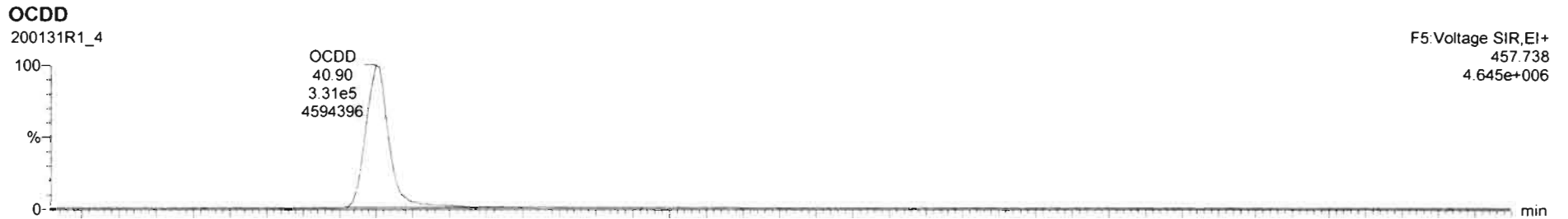


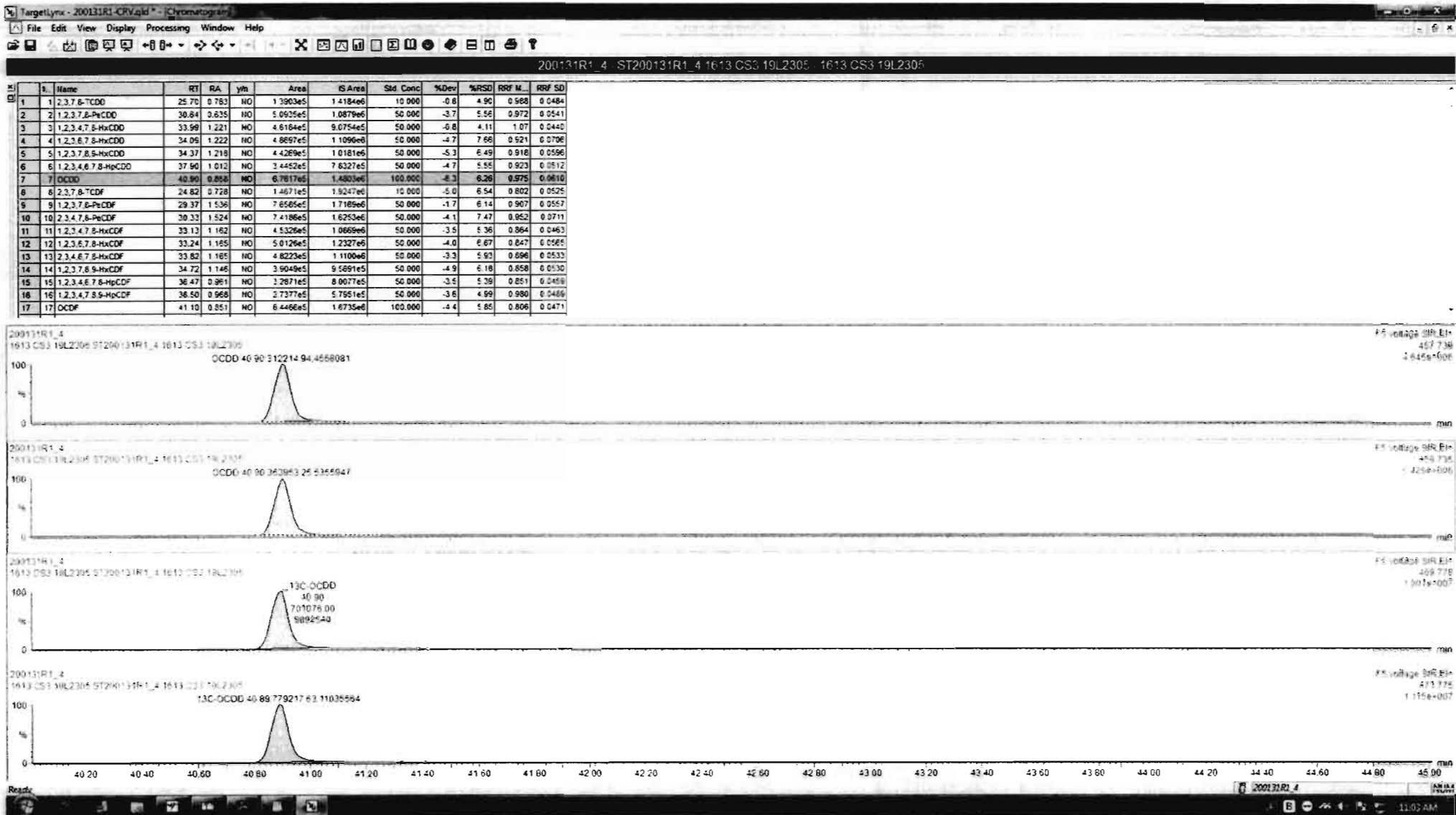
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305





Dataset: Untitled

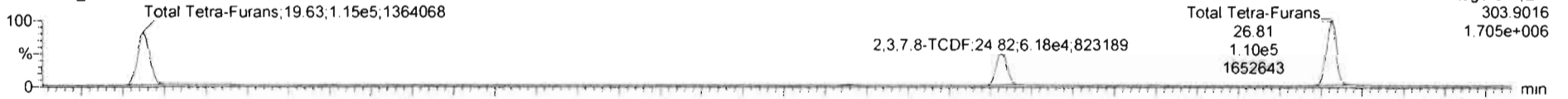
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

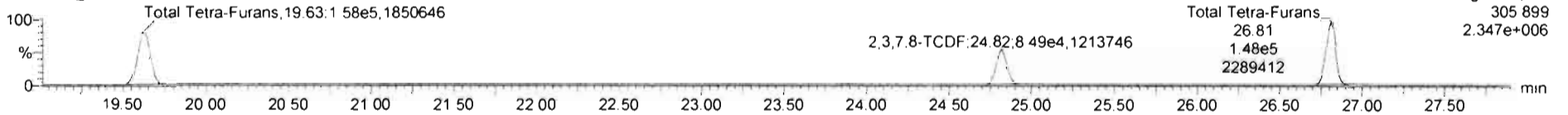
Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200131R1_4

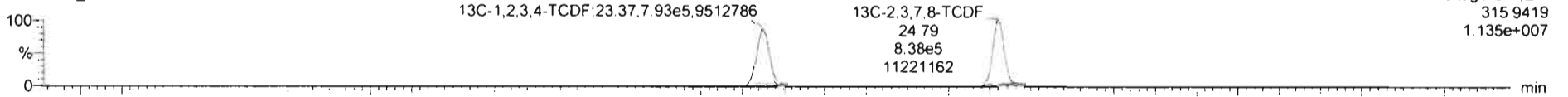


200131R1_4

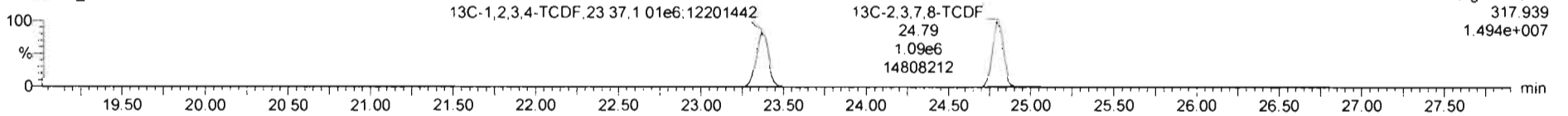


13C-2,3,7,8-TCDF

200131R1_4

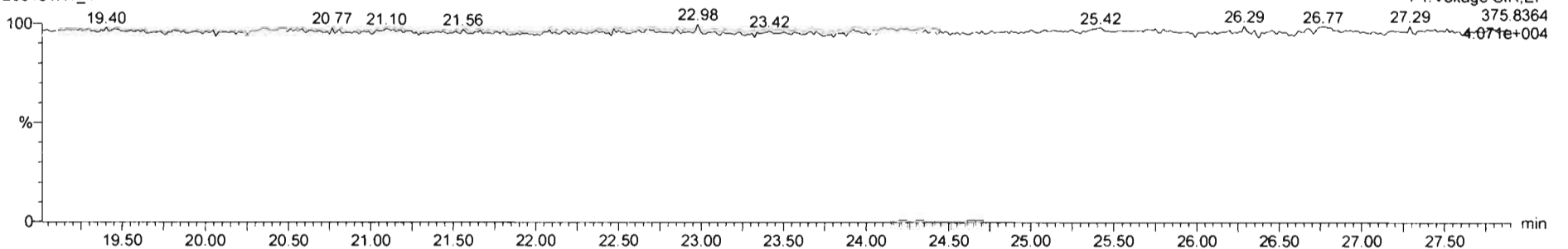


200131R1_4



DPE1

200131R1_4



Dataset: Untitled

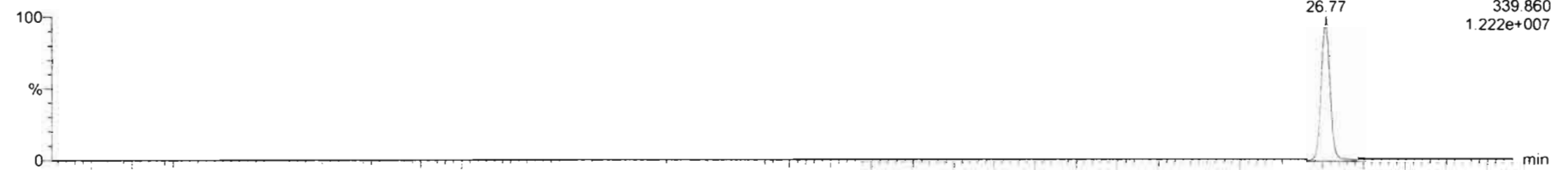
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

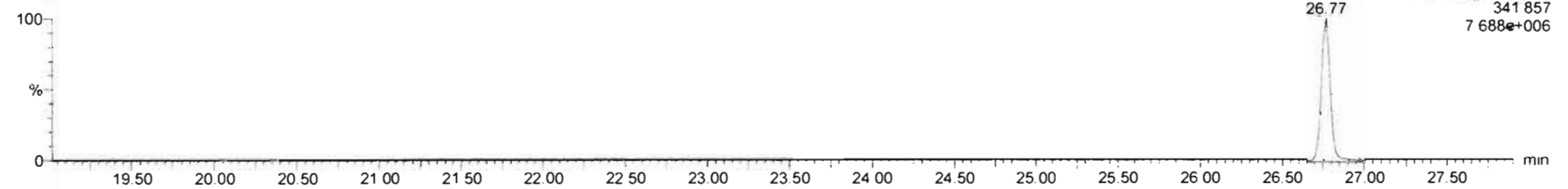
Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200131R1_4

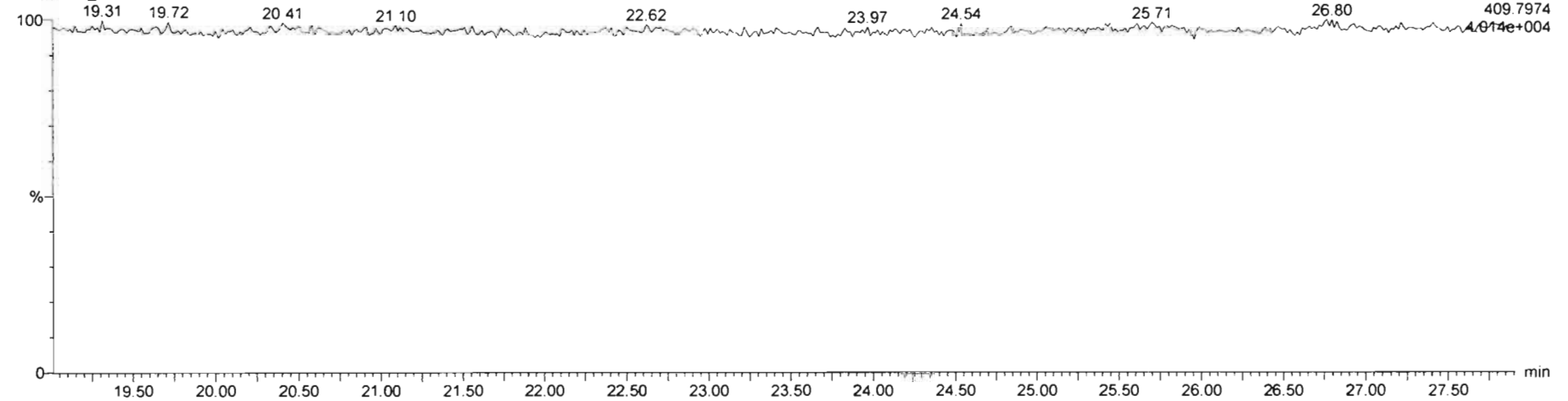


200131R1_4



DPE6

200131R1_4



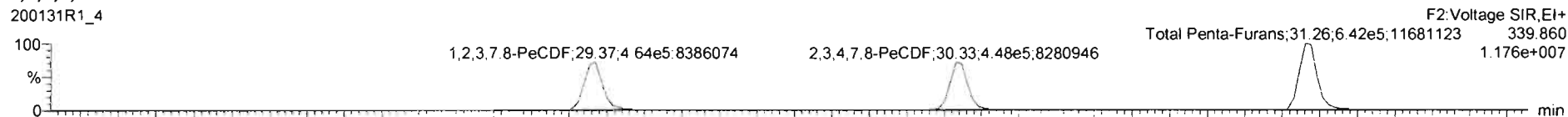
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

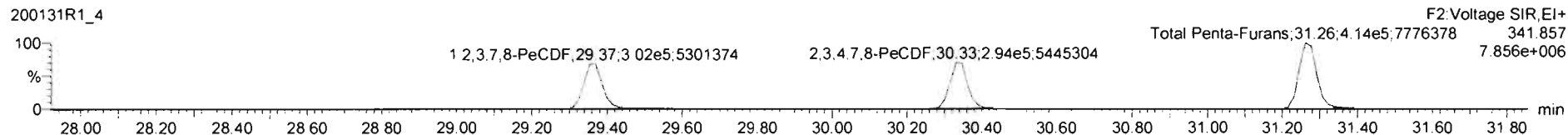
Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDF

200131R1_4

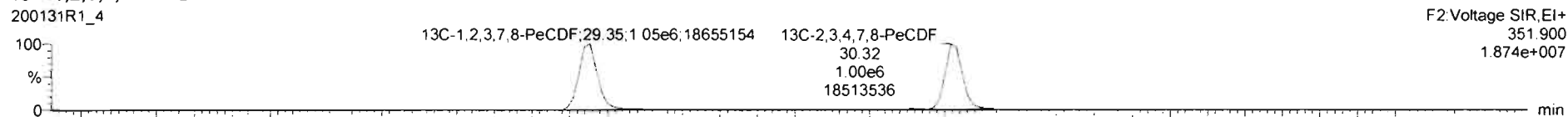


200131R1_4

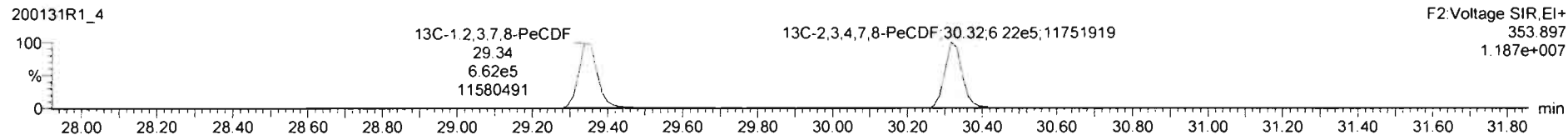


13C-1,2,3,7,8-PeCDF

200131R1_4

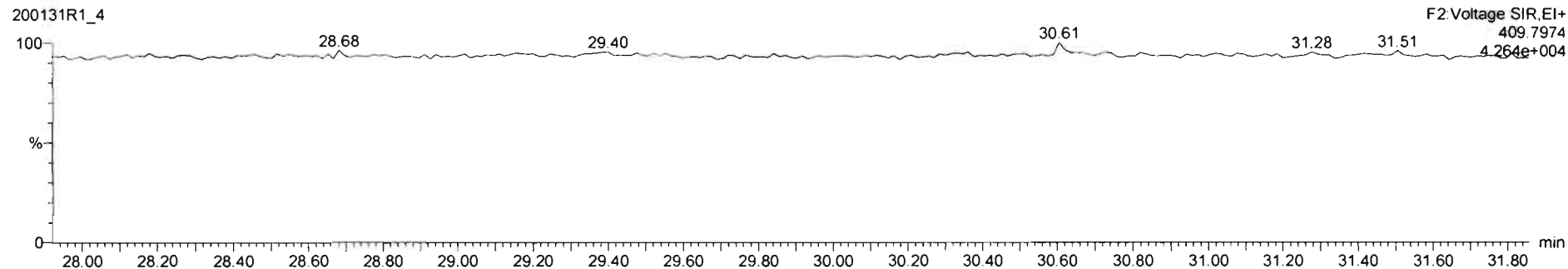


200131R1_4



DPE2

200131R1_4



Dataset: Untitled

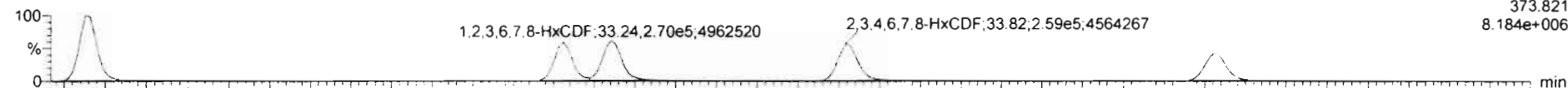
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

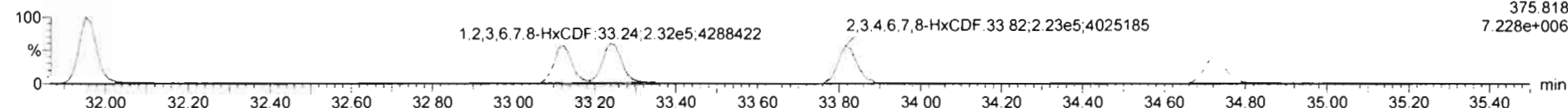
Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200131R1_4

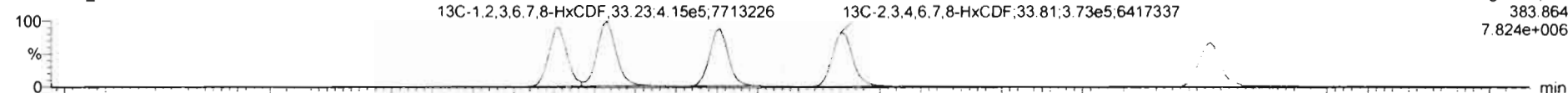


200131R1_4

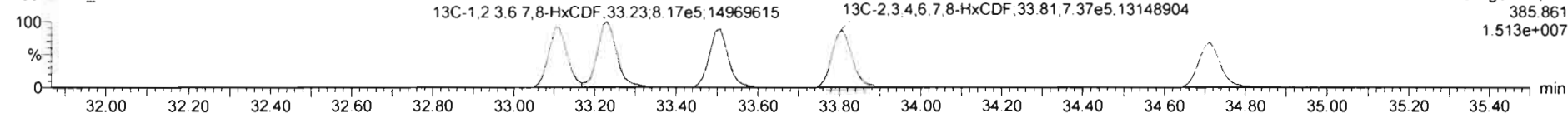


13C-1,2,3,4,7,8-HxCDF

200131R1_4

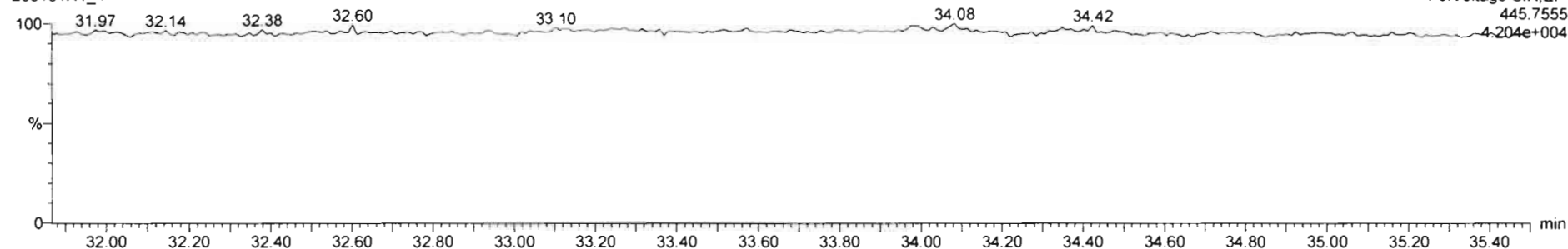


200131R1_4



DPE3

200131R1_4

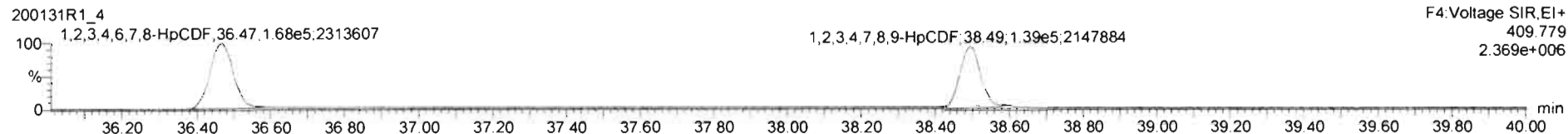
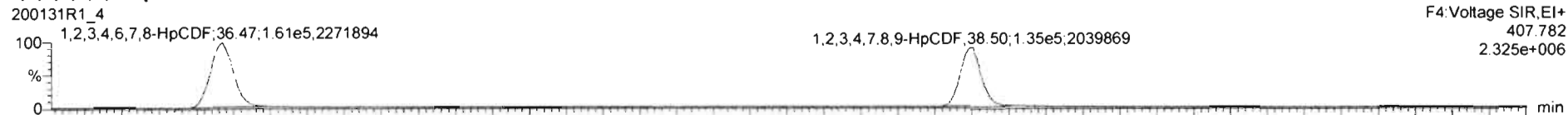


Dataset: Untitled

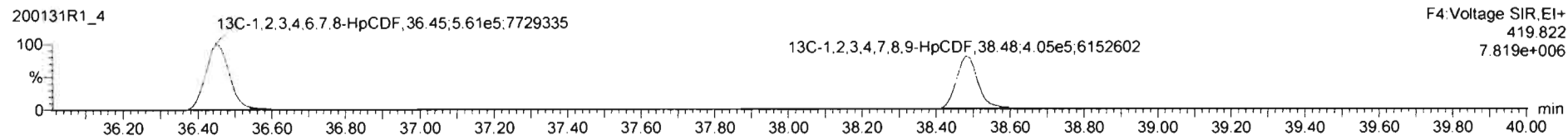
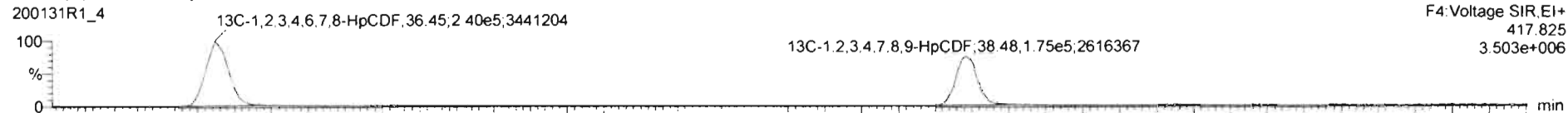
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

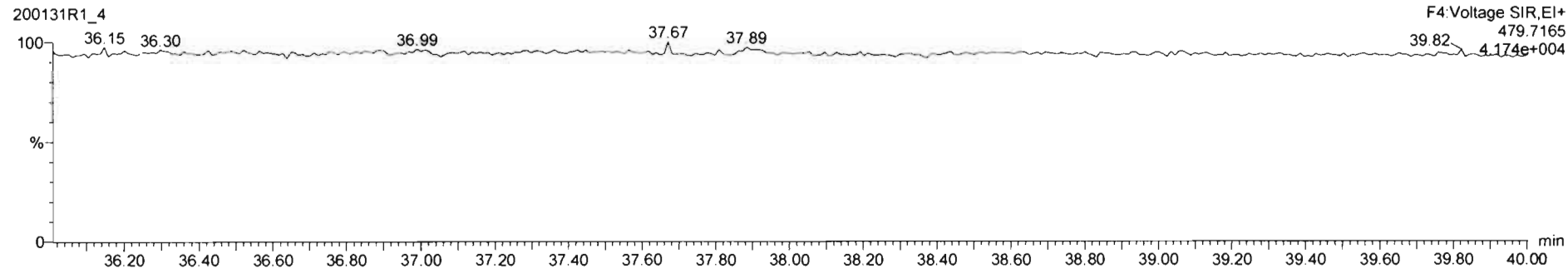
1,2,3,4,6,7,8-HpCDF



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



DPE4

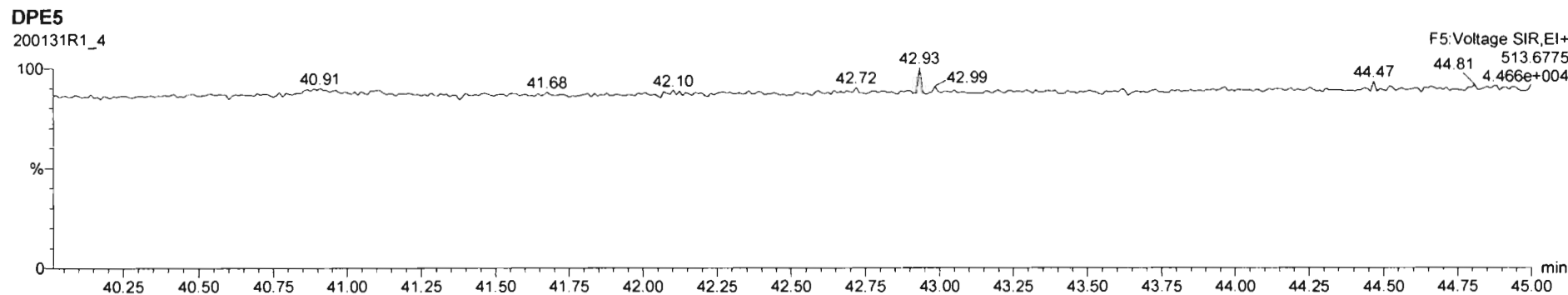
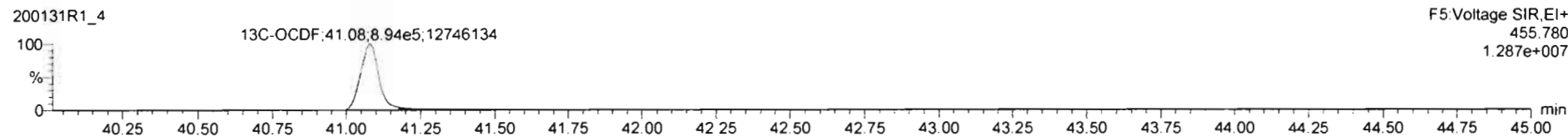
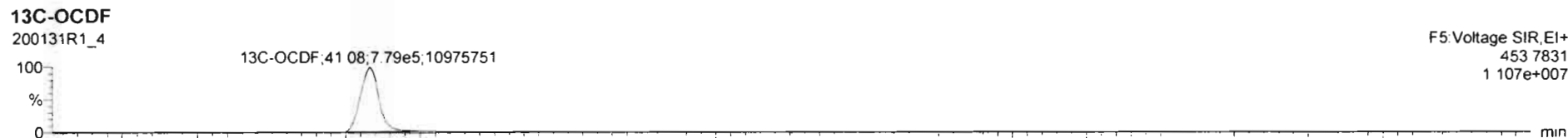
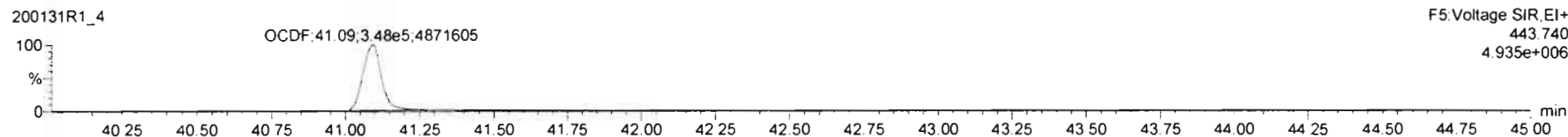
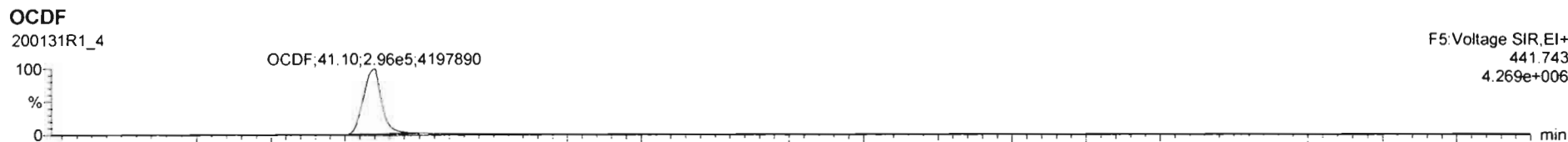


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

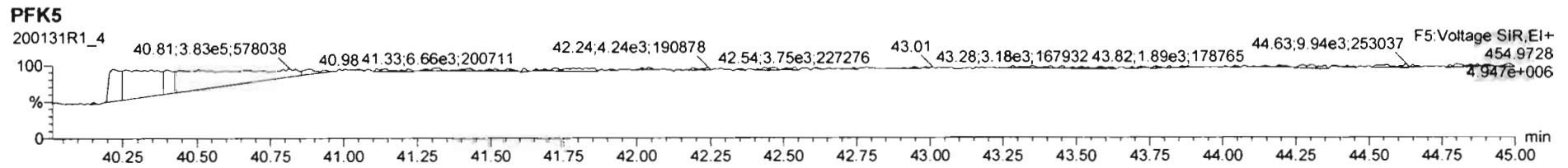
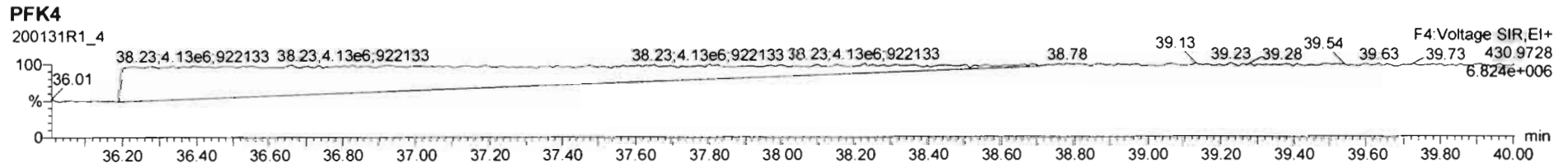
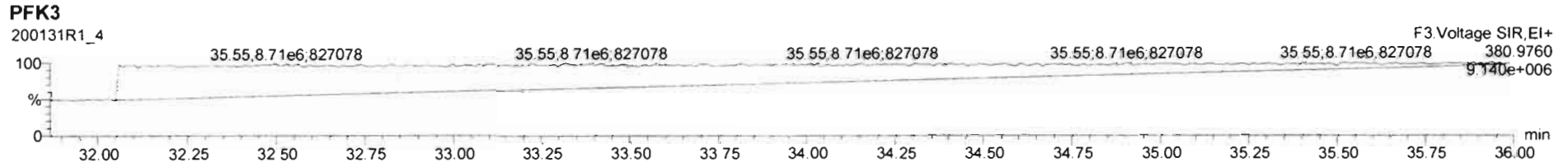
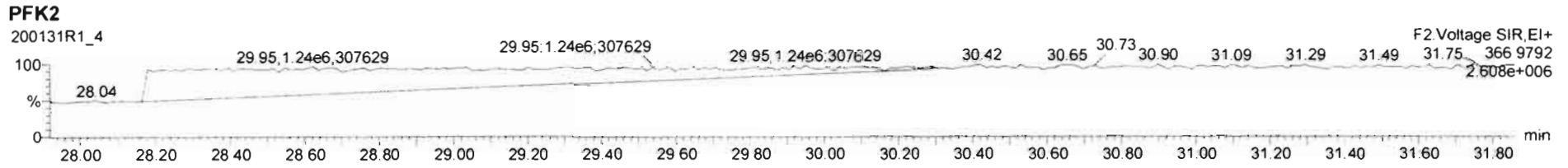
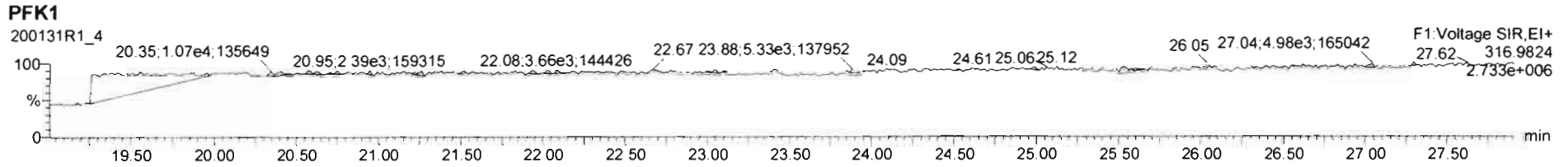


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305



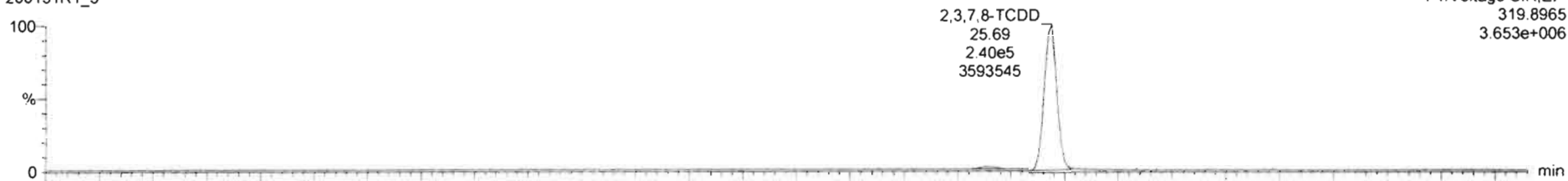
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

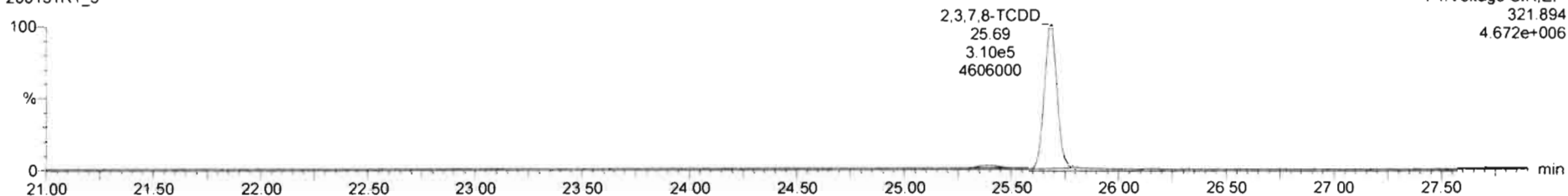
Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDD

200131R1_5

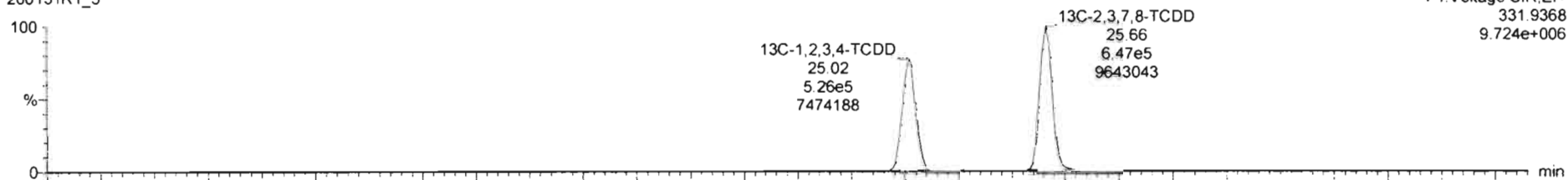


200131R1_5

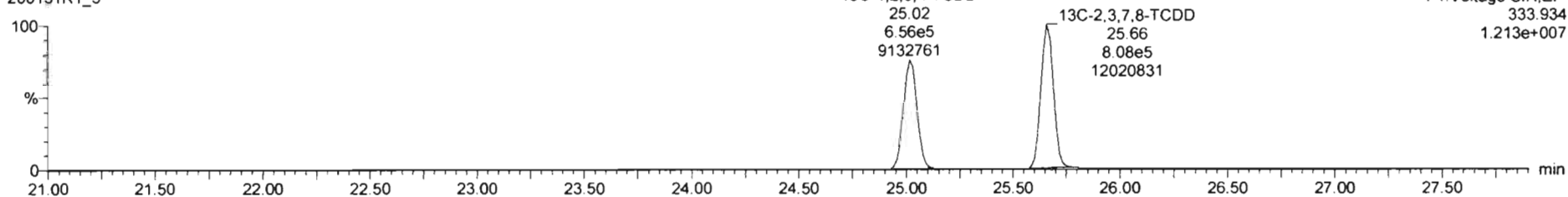


13C-2,3,7,8-TCDD

200131R1_5



200131R1_5



Dataset: Untitled

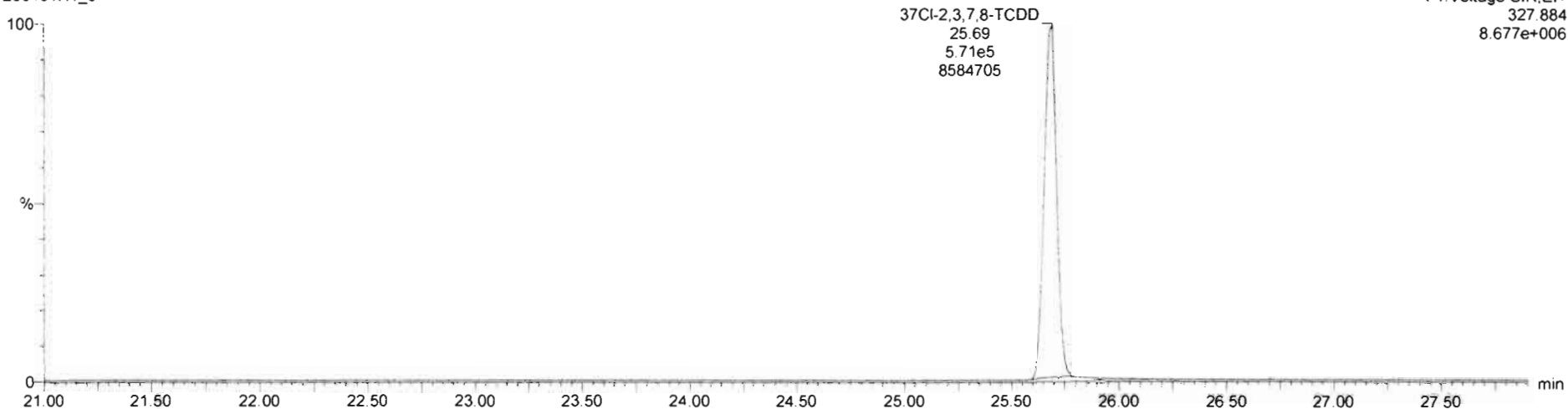
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

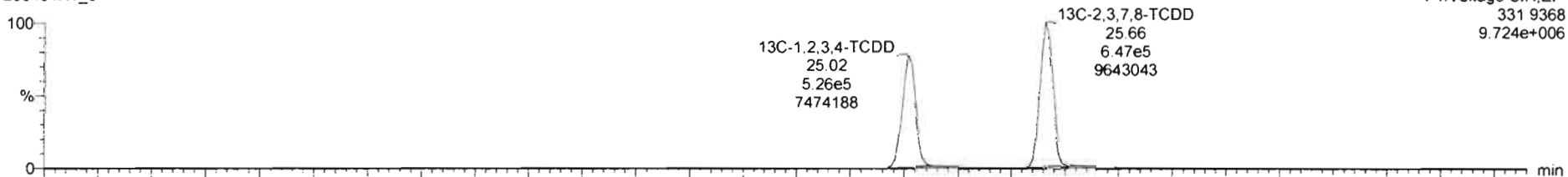
37Cl-2,3,7,8-TCDD

200131R1_5

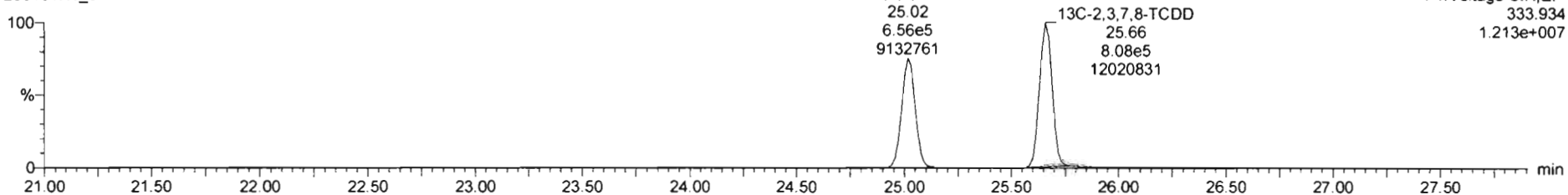


13C-1,2,3,4-TCDD

200131R1_5



200131R1_5



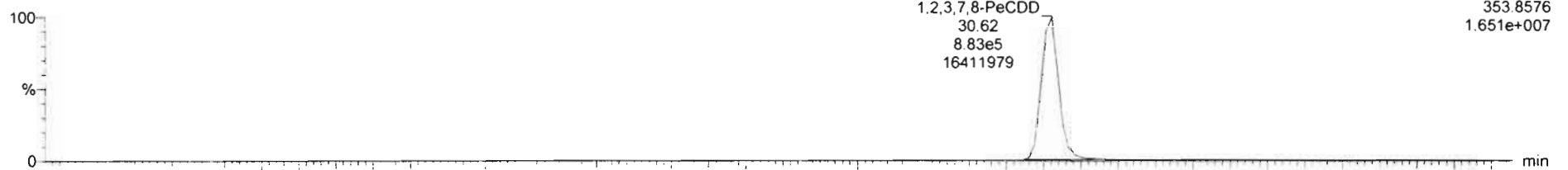
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

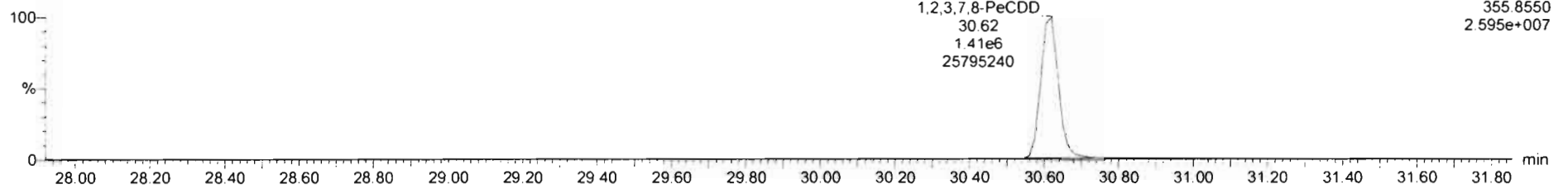
Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1,2,3,7,8-PeCDD

200131R1_5

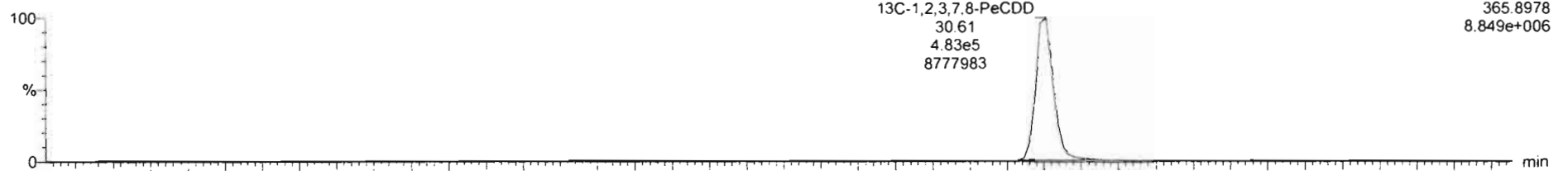


200131R1_5

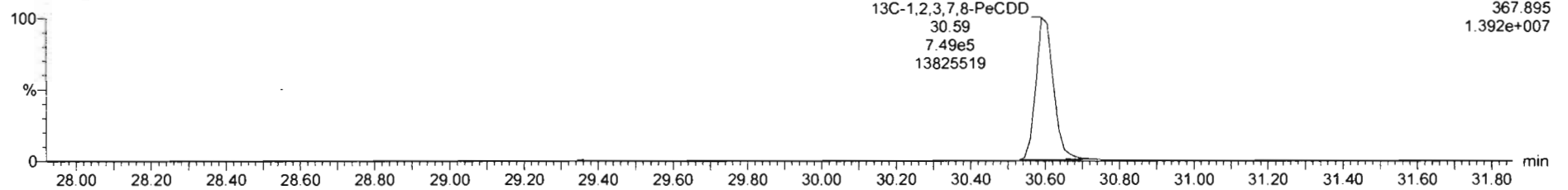


13C-1,2,3,7,8-PeCDD

200131R1_5



200131R1_5



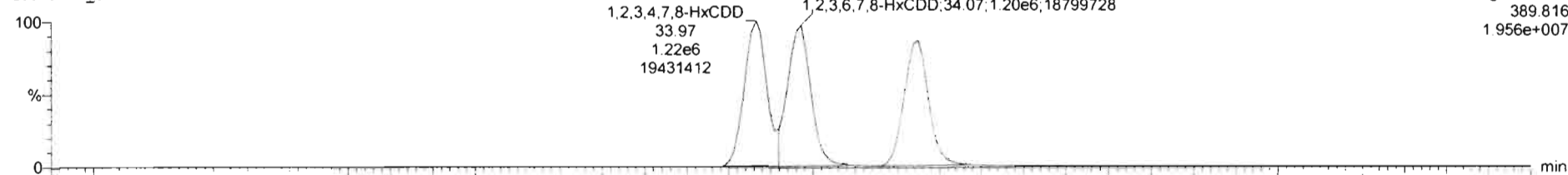
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

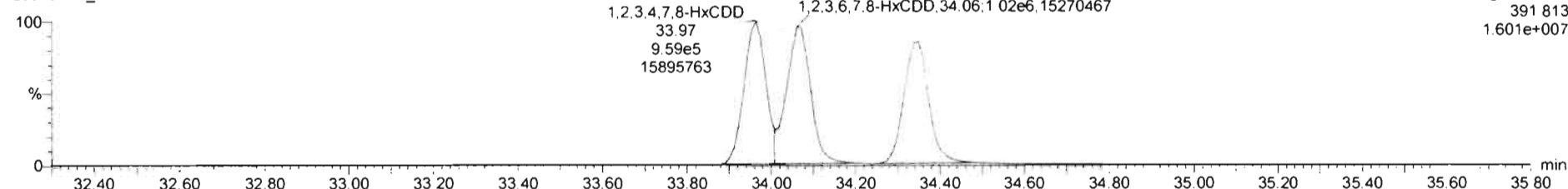
Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200131R1_5

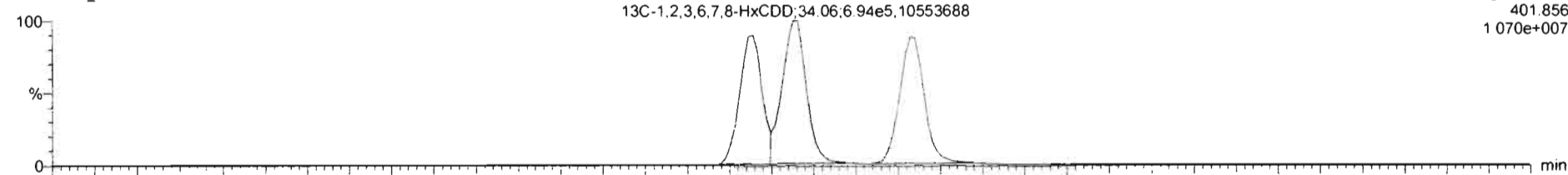


200131R1_5

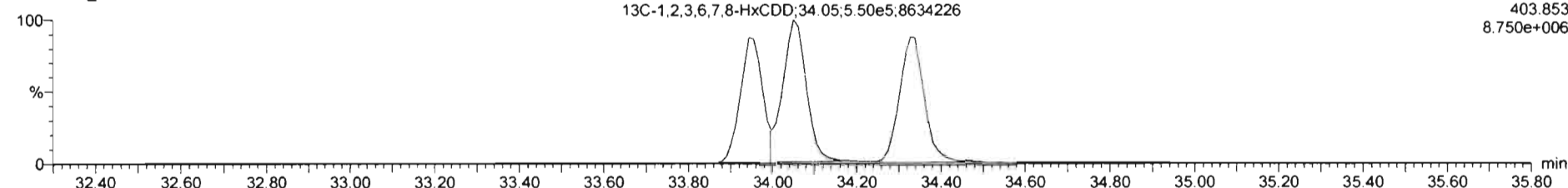


13C-1,2,3,4,7,8-HxCDD

200131R1_5



200131R1_5



Dataset: Untitled

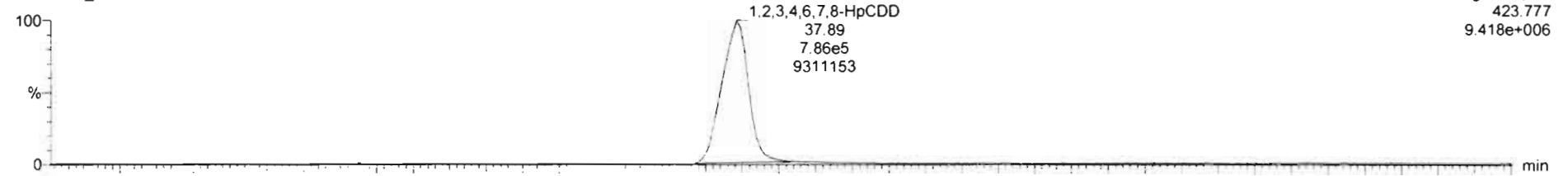
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

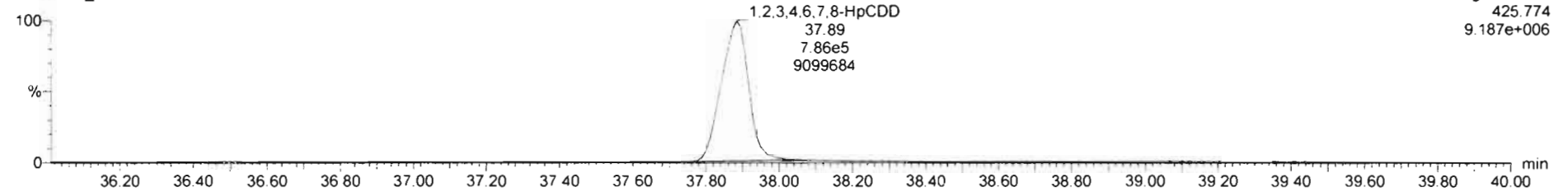
Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200131R1_5

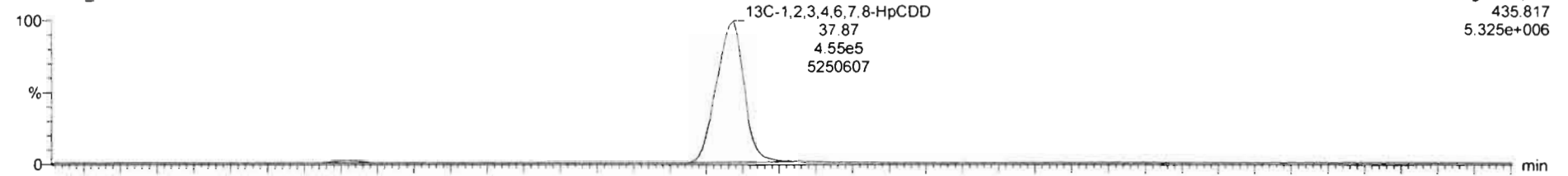


200131R1_5

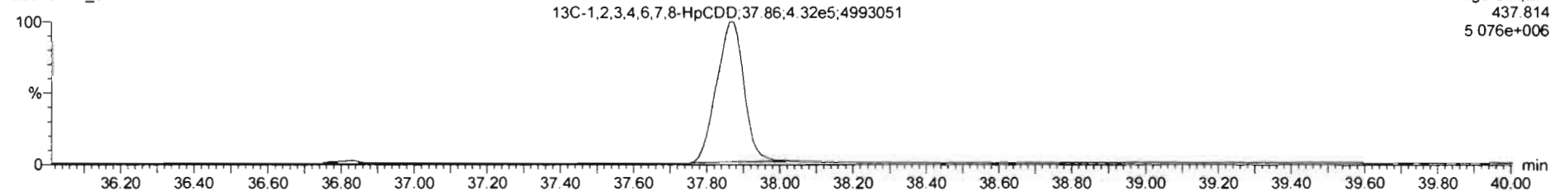


13C-1,2,3,4,6,7,8-HpCDD

200131R1_5



200131R1_5

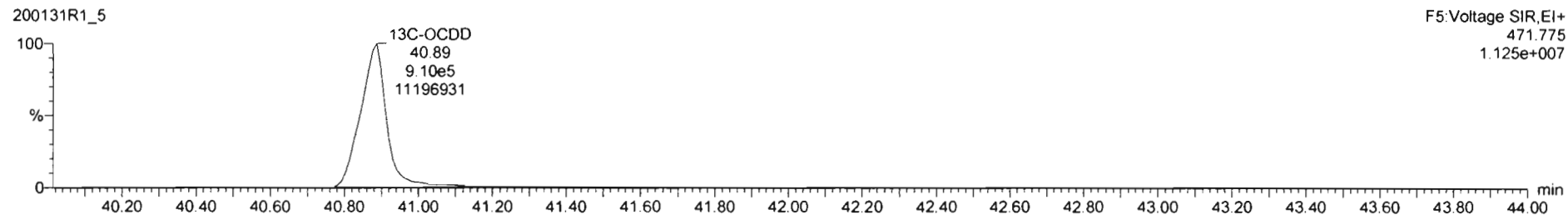
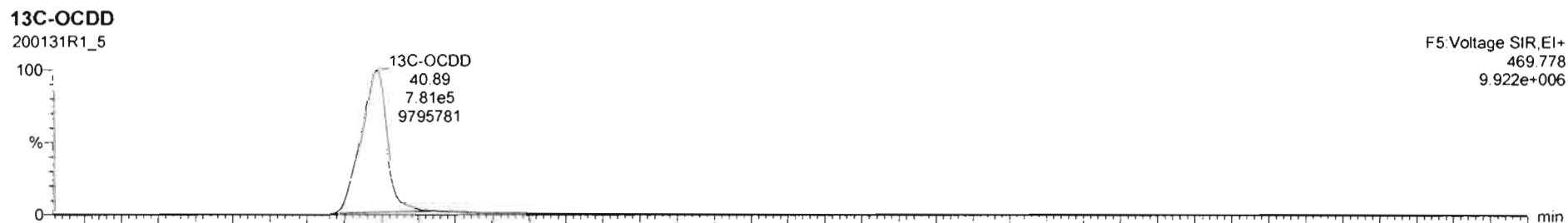
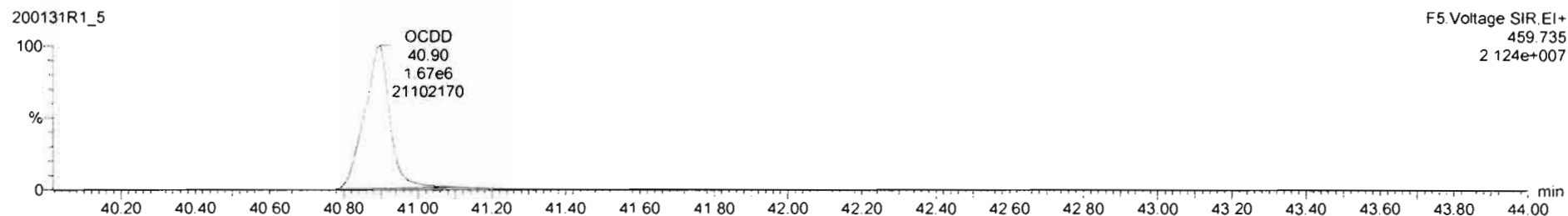
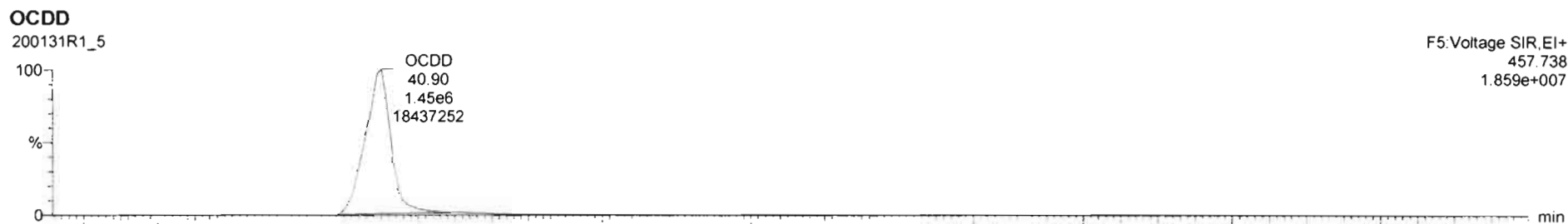


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306



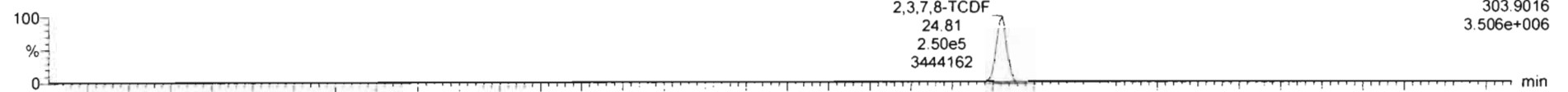
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

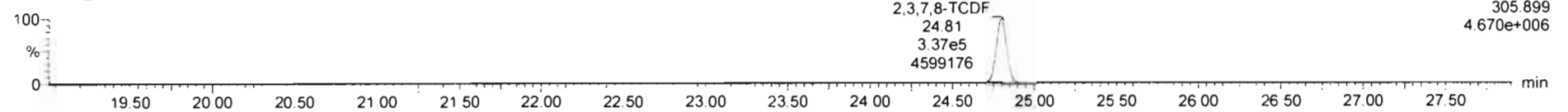
Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200131R1_5

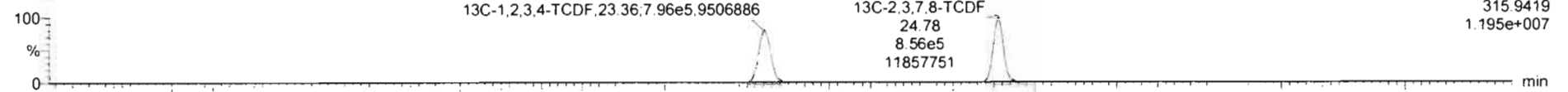


200131R1_5

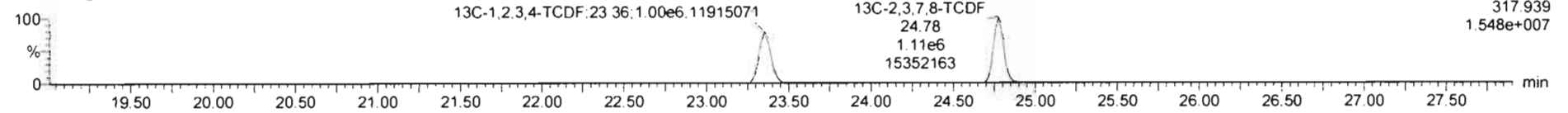


13C-2,3,7,8-TCDF

200131R1_5

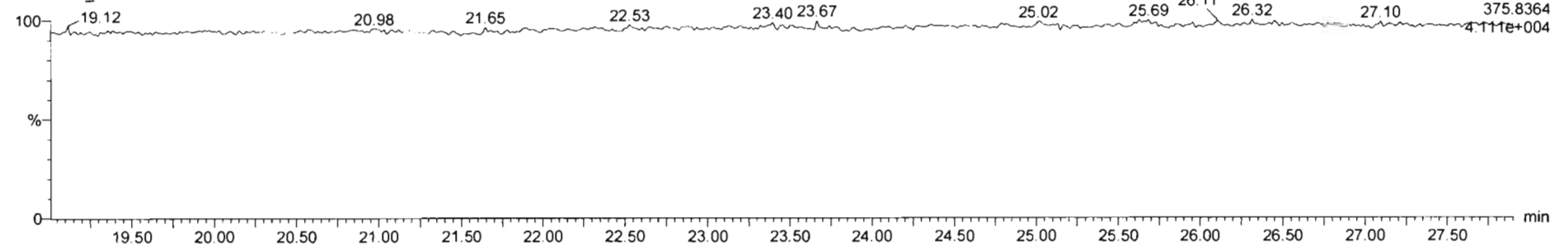


200131R1_5



DPE1

200131R1_5

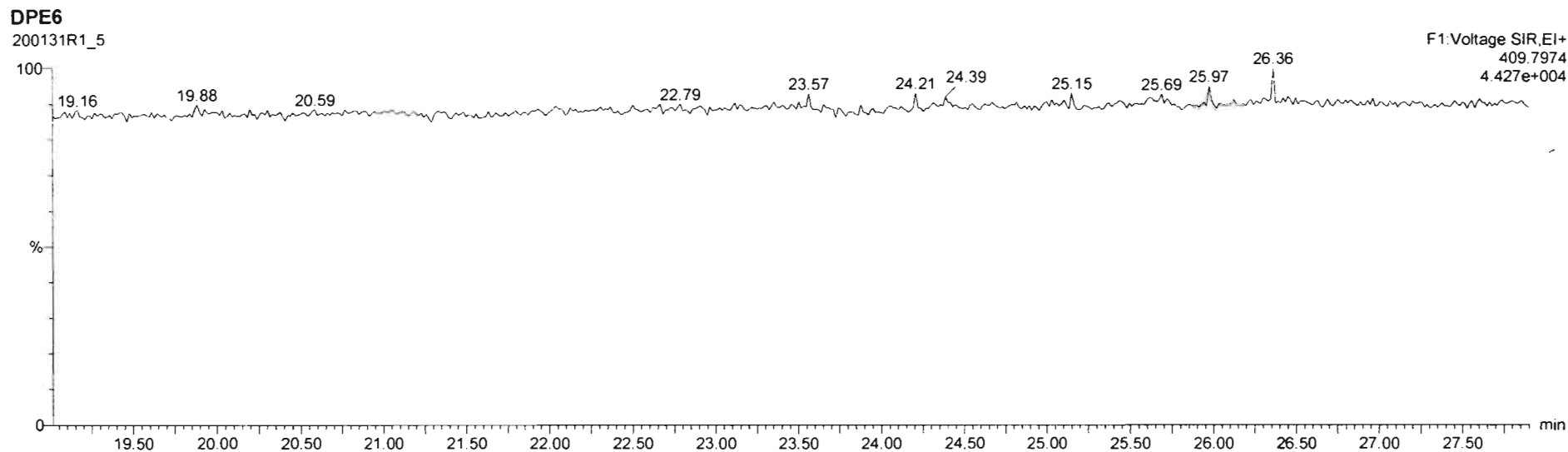
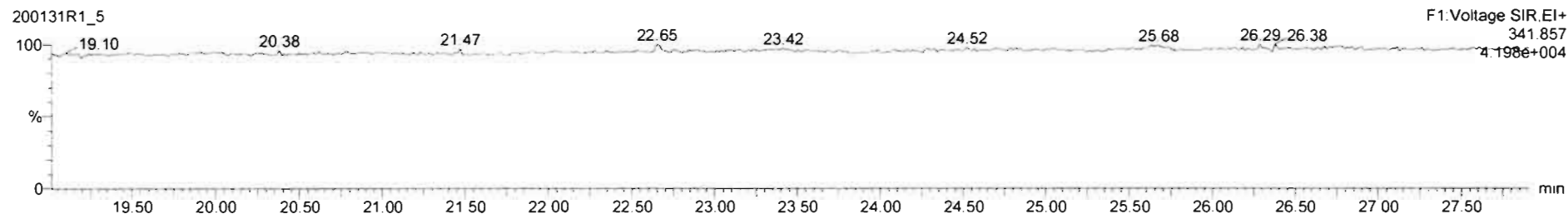
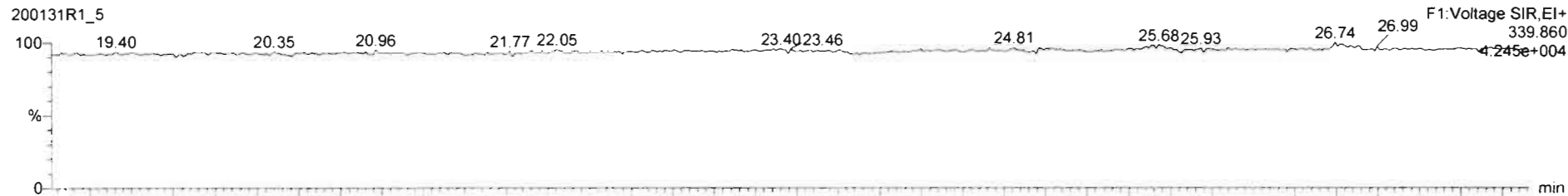


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1st Func. Penta-Furans



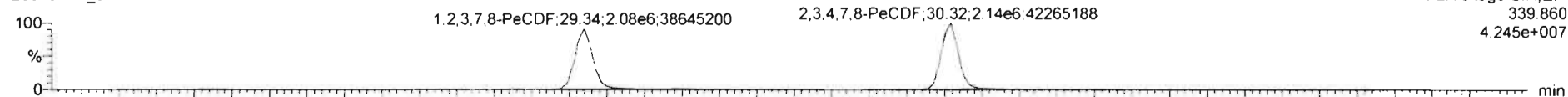
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

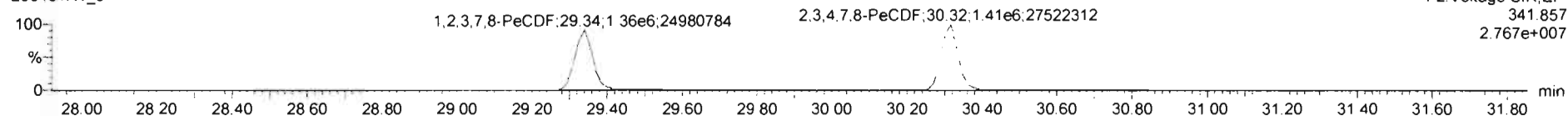
Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1,2,3,7,8-PeCDF

200131R1_5

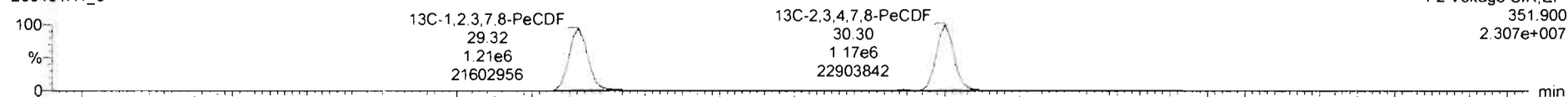


200131R1_5

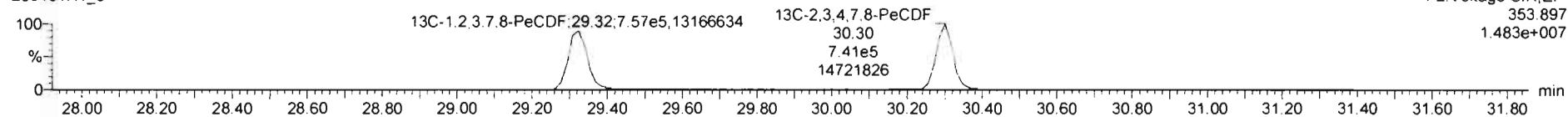


13C-1,2,3,7,8-PeCDF

200131R1_5

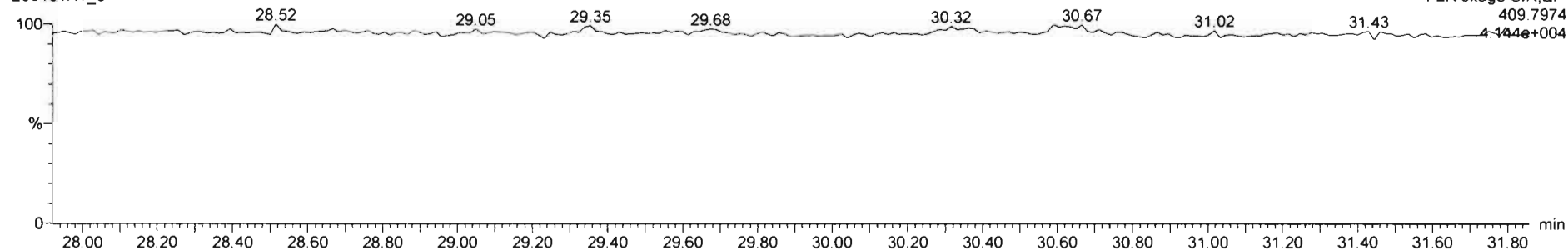


200131R1_5



DPE2

200131R1_5



Dataset: Untitled

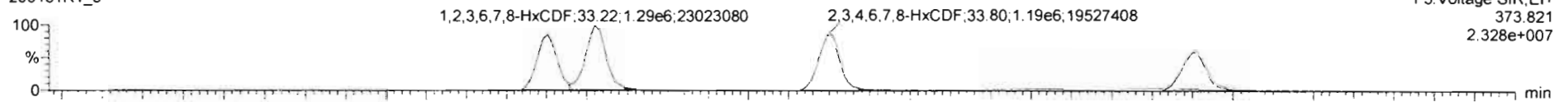
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

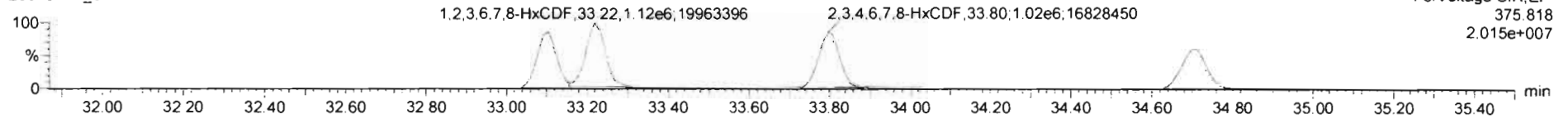
Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200131R1_5

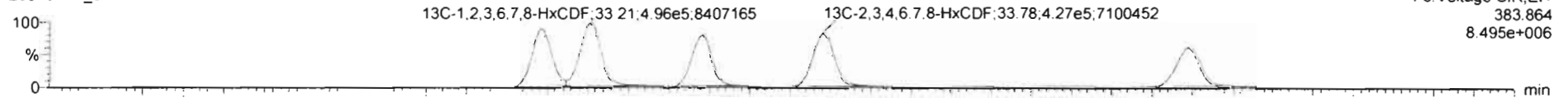


200131R1_5

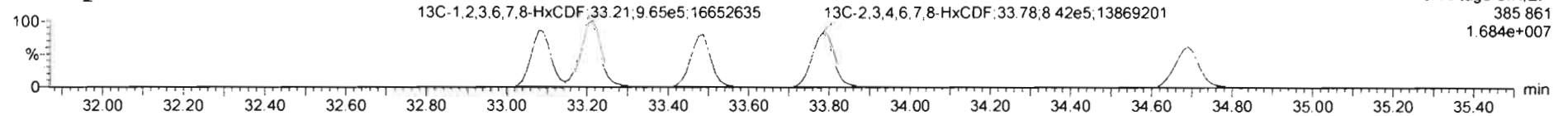


13C-1,2,3,4,7,8-HxCDF

200131R1_5

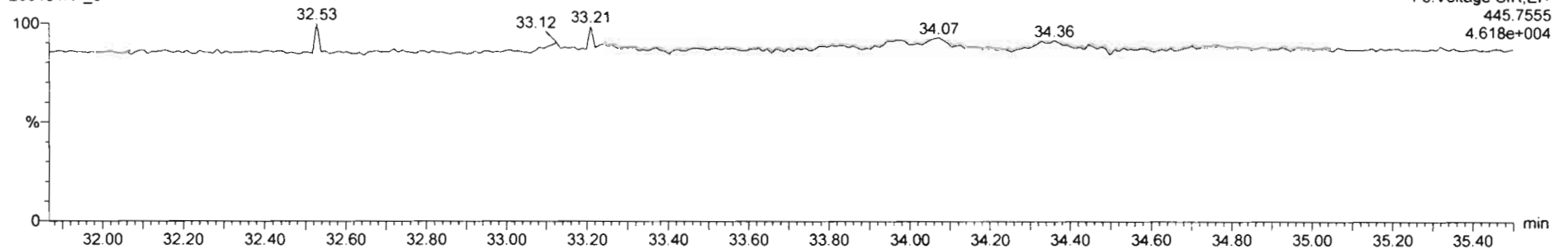


200131R1_5



DPE3

200131R1_5

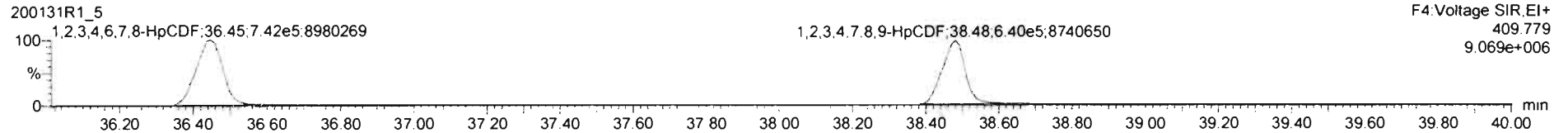
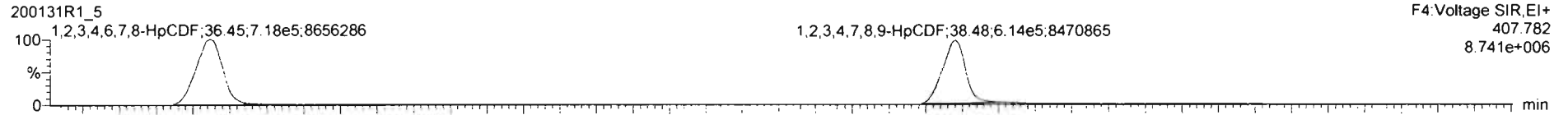


Dataset: Untitled

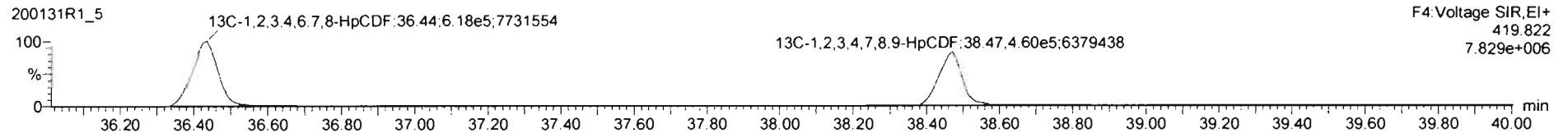
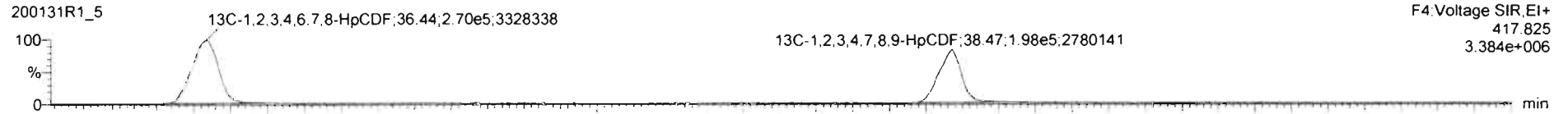
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

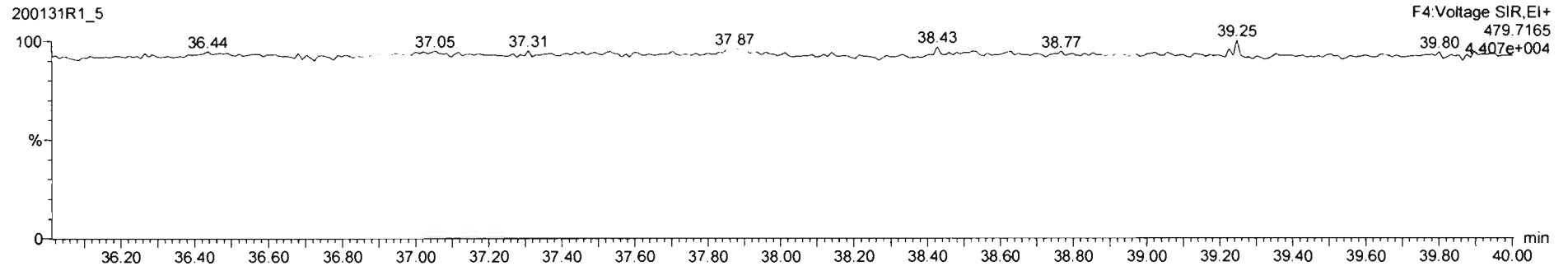
1,2,3,4,6,7,8-HpCDF



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



DPE4

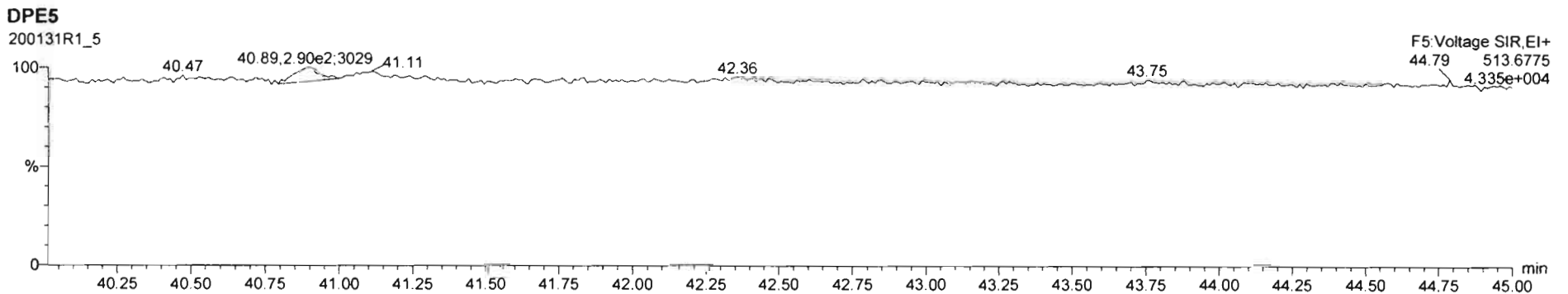
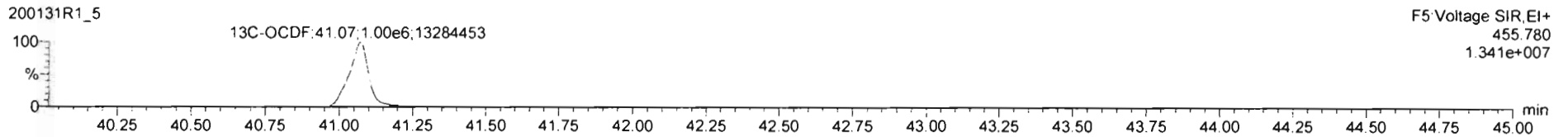
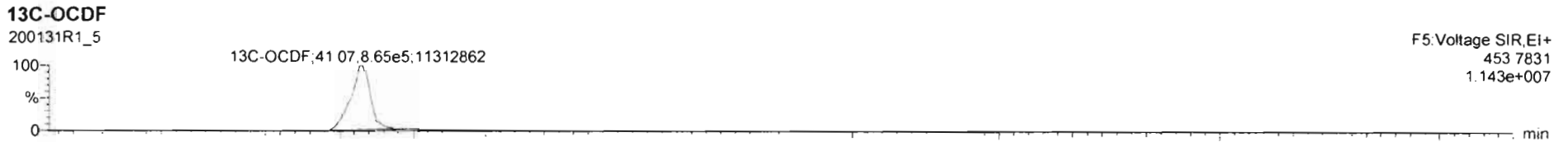
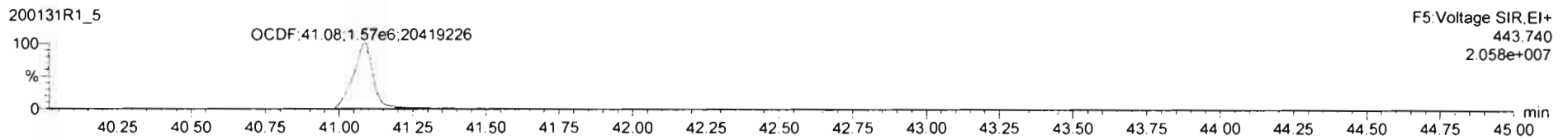
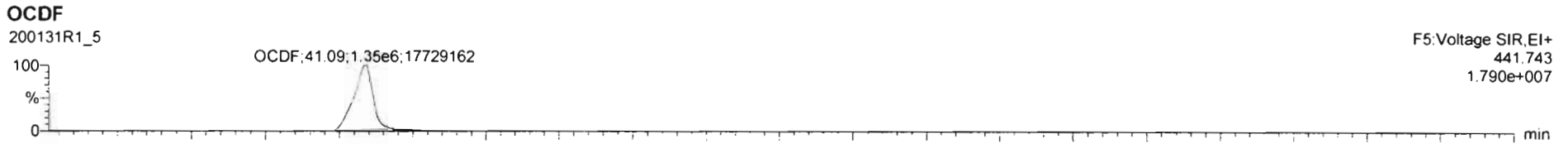


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

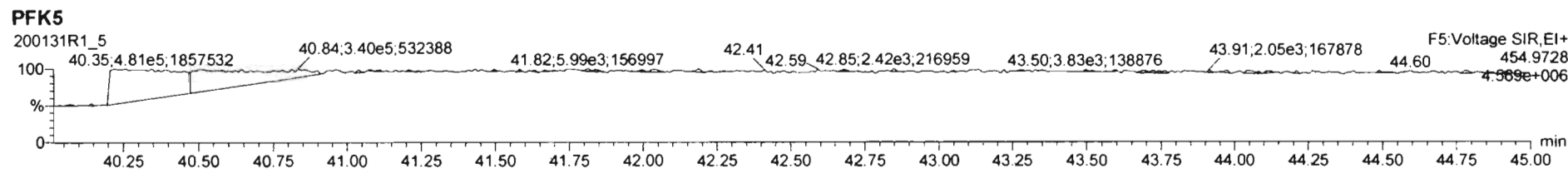
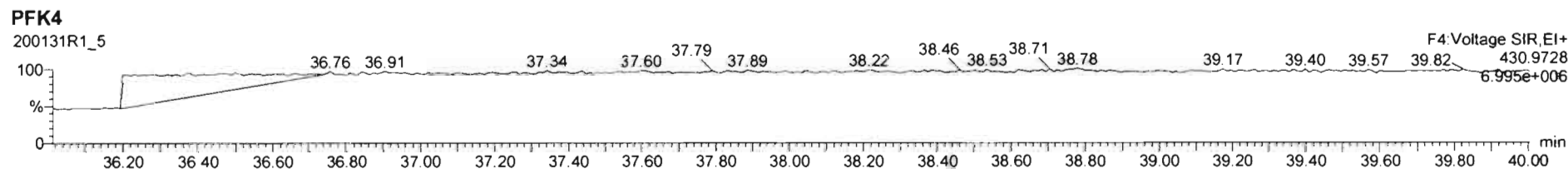
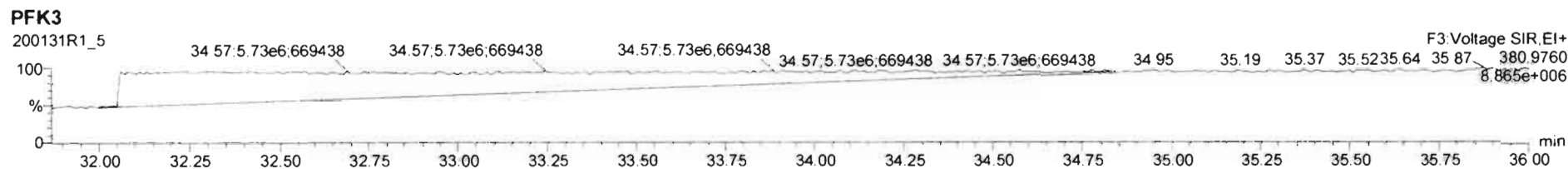
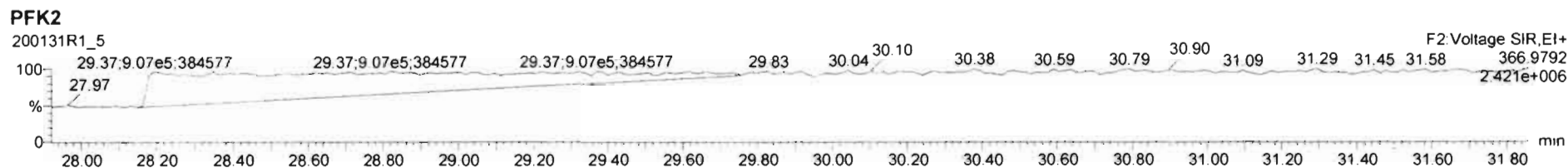
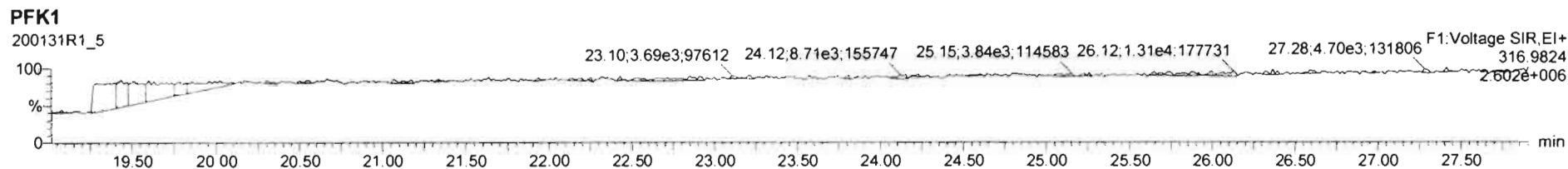
Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306



Dataset: Untitled

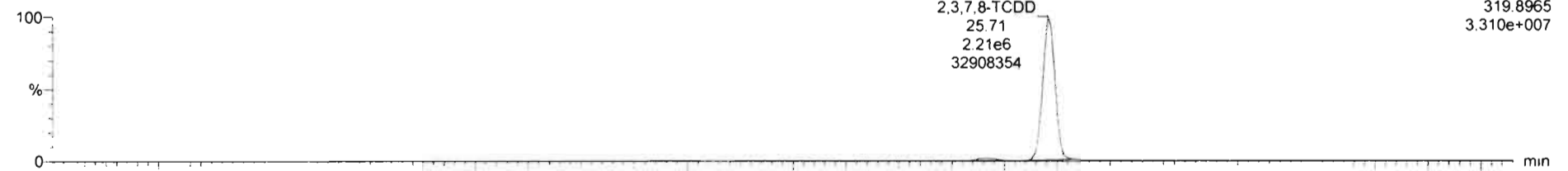
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

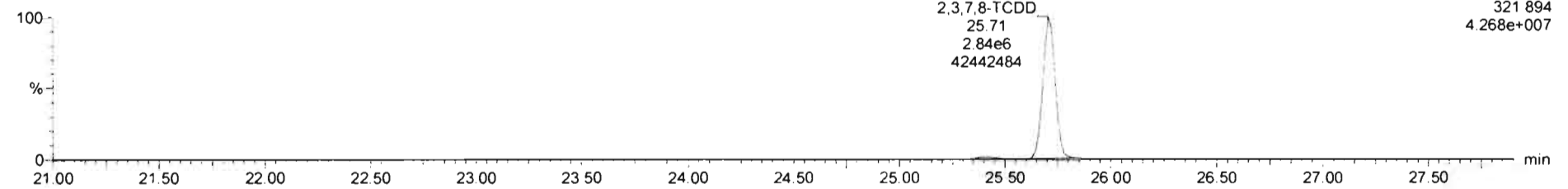
Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

2,3,7,8-TCDD

200131R1_6

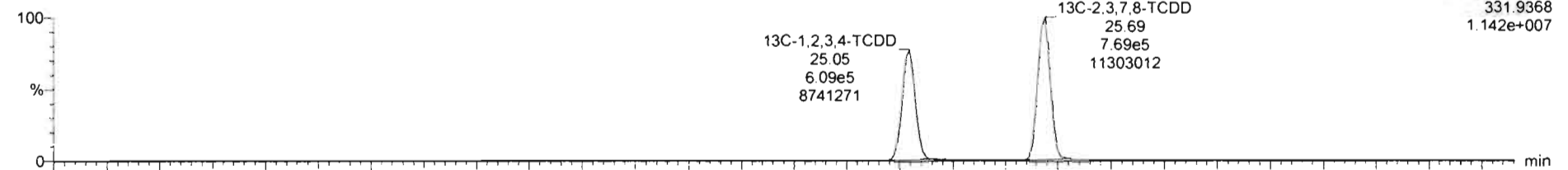


200131R1_6

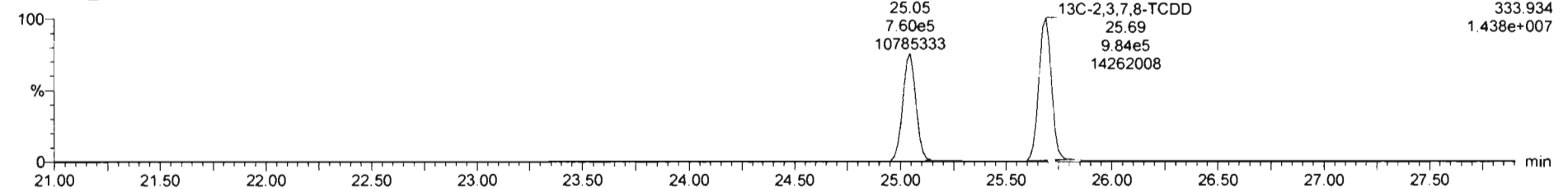


13C-2,3,7,8-TCDD

200131R1_6



200131R1_6



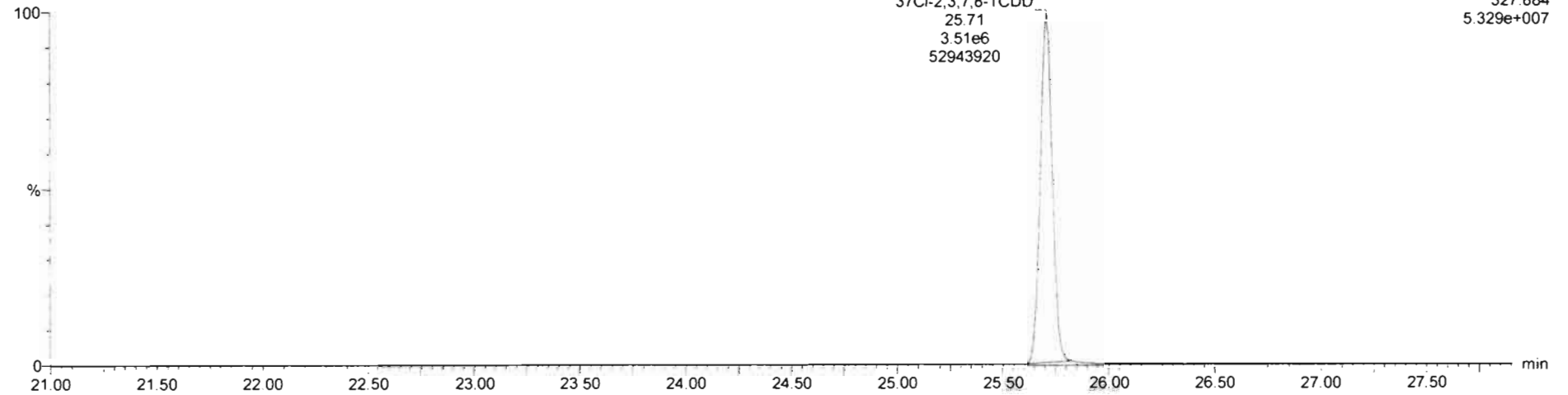
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

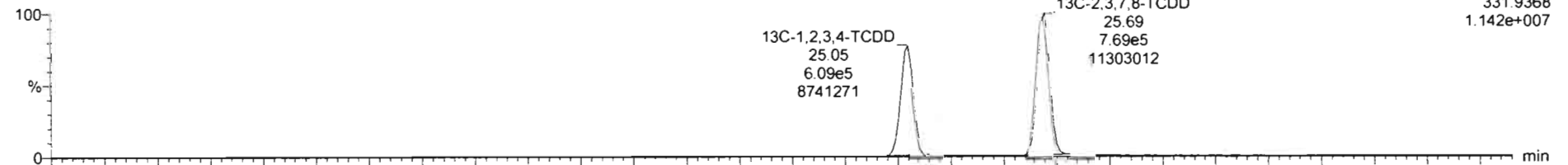
37Cl-2,3,7,8-TCDD

200131R1_6

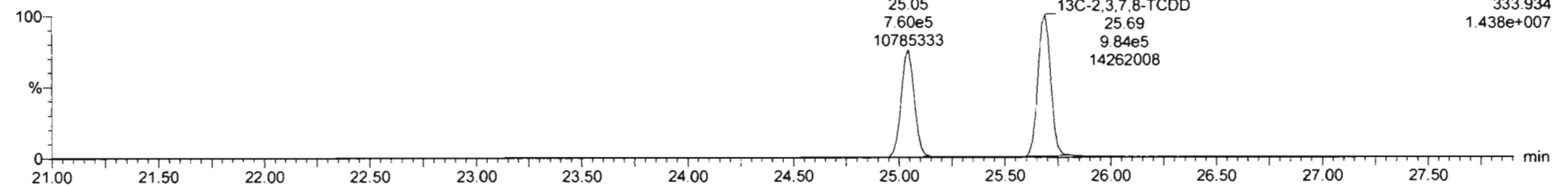


13C-1,2,3,4-TCDD

200131R1_6



200131R1_6



Dataset: Untitled

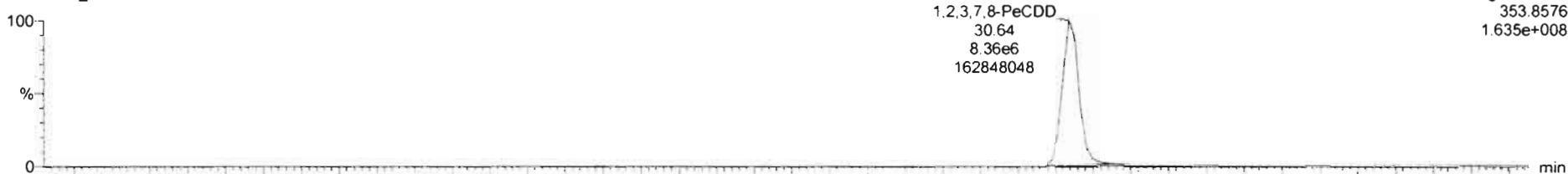
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

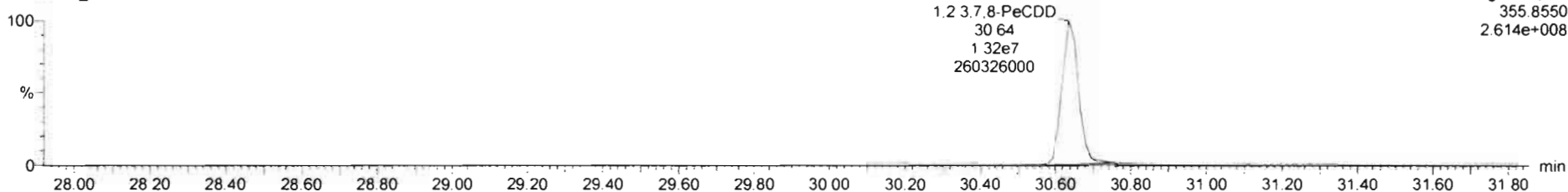
Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

1,2,3,7,8-PeCDD

200131R1_6

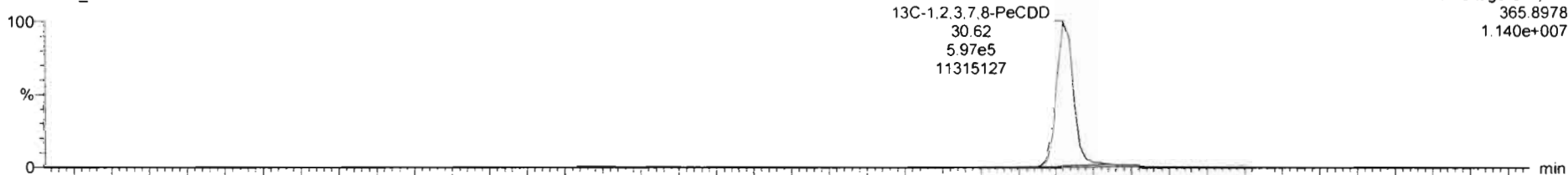


200131R1_6

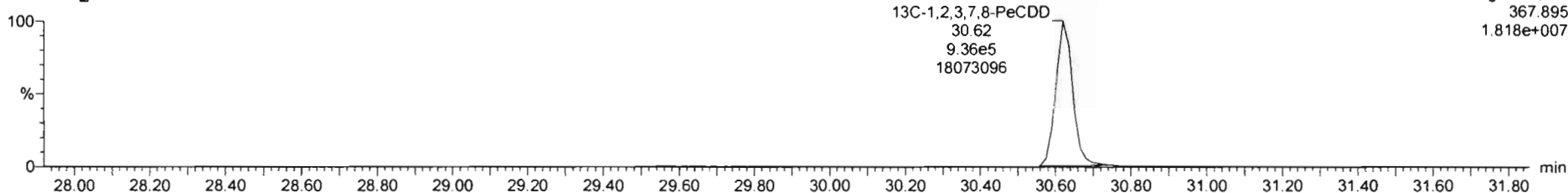


13C-1,2,3,7,8-PeCDD

200131R1_6



200131R1_6



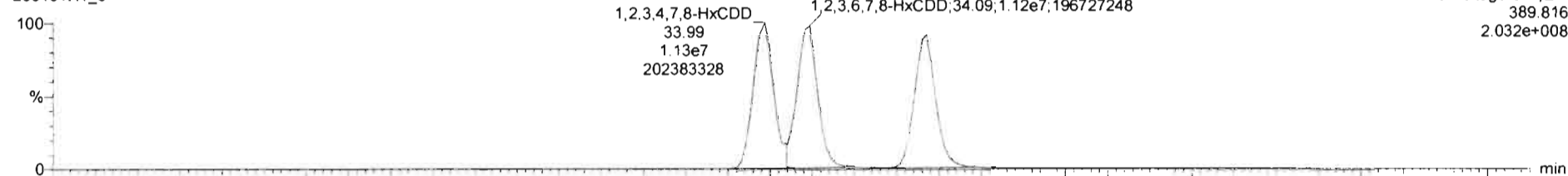
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

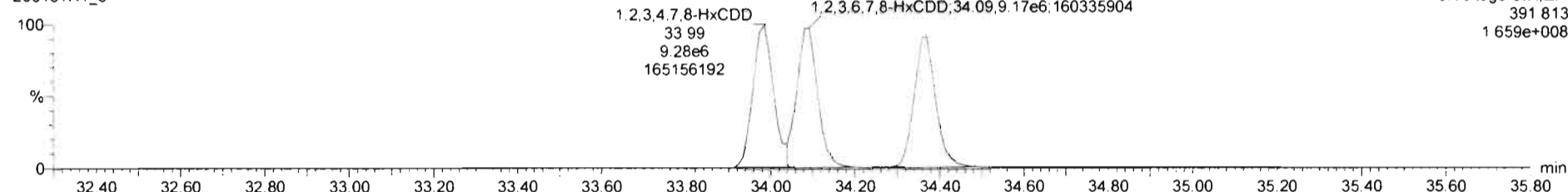
Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200131R1_6

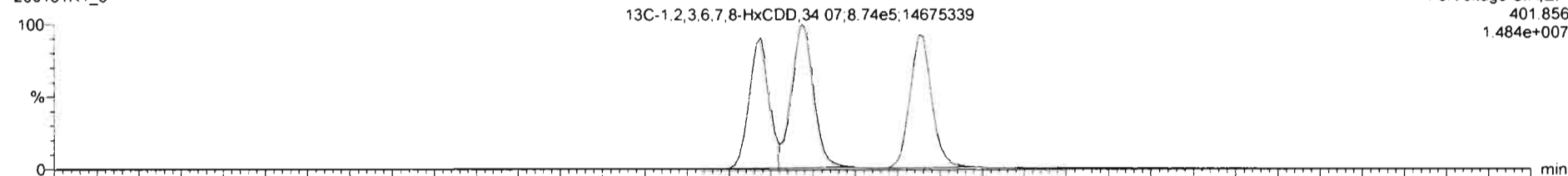


200131R1_6

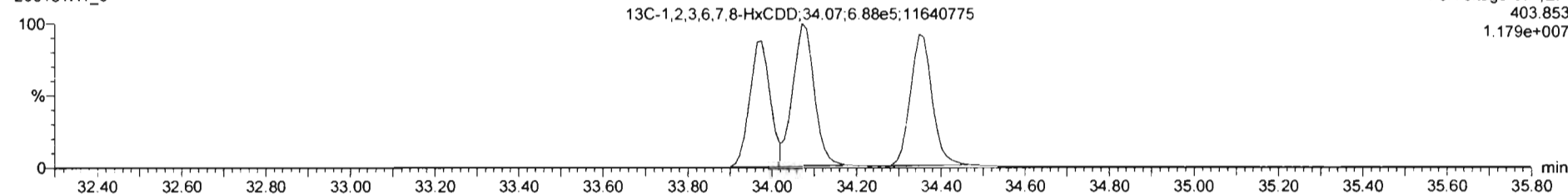


13C-1,2,3,4,7,8-HxCDD

200131R1_6



200131R1_6



Dataset: Untitled

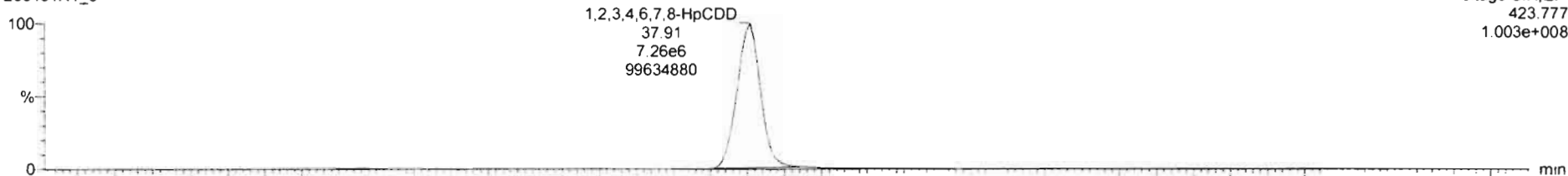
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

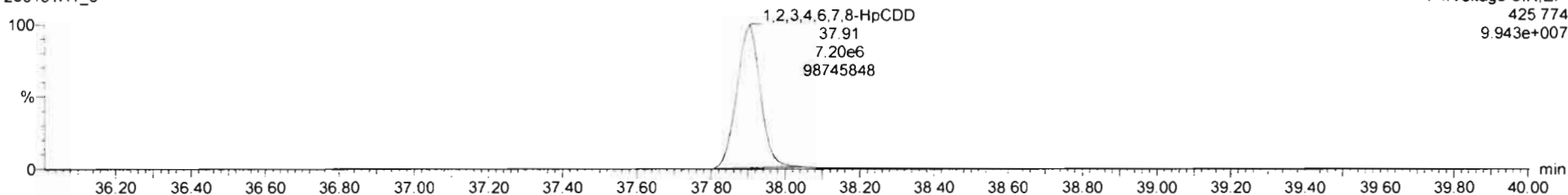
Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200131R1_6

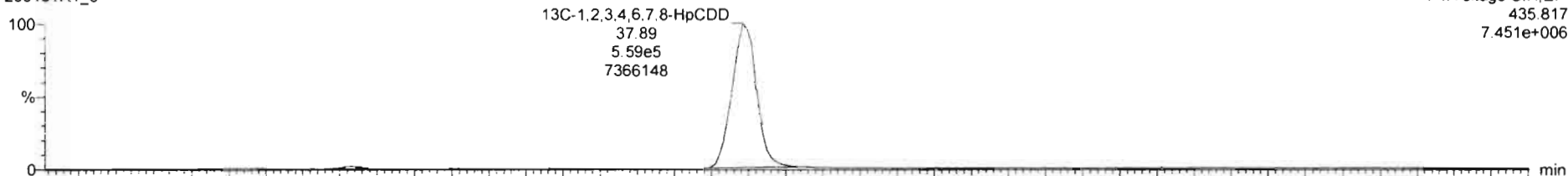


200131R1_6

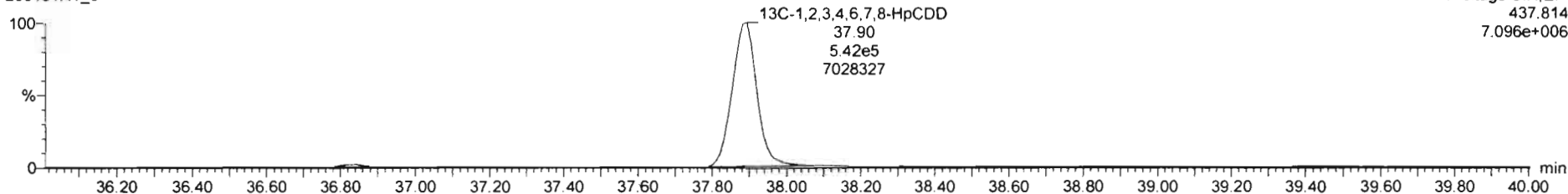


13C-1,2,3,4,6,7,8-HpCDD

200131R1_6



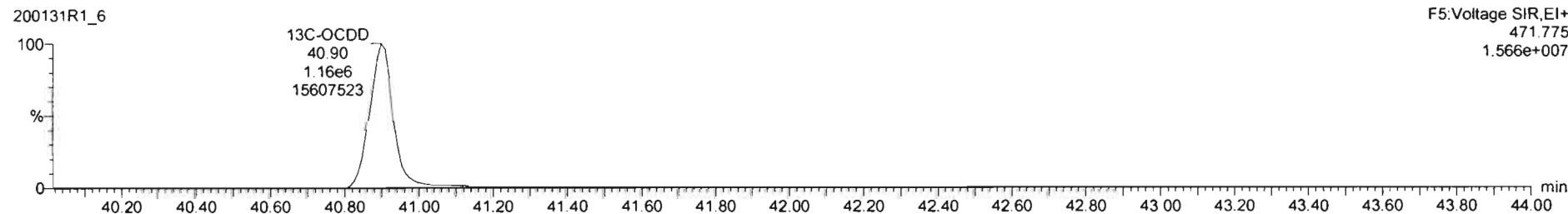
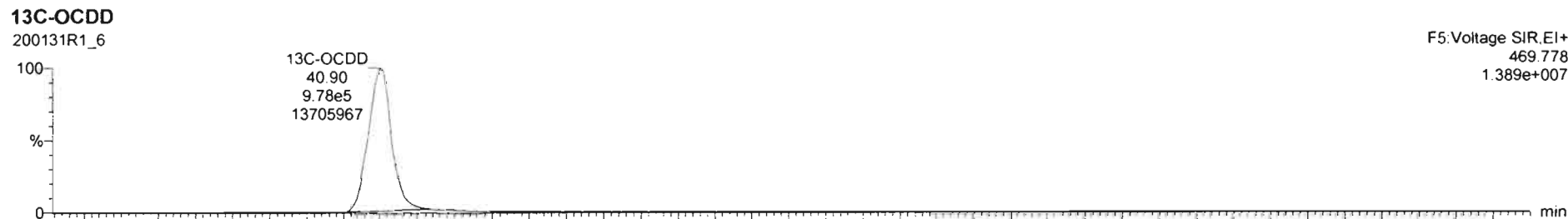
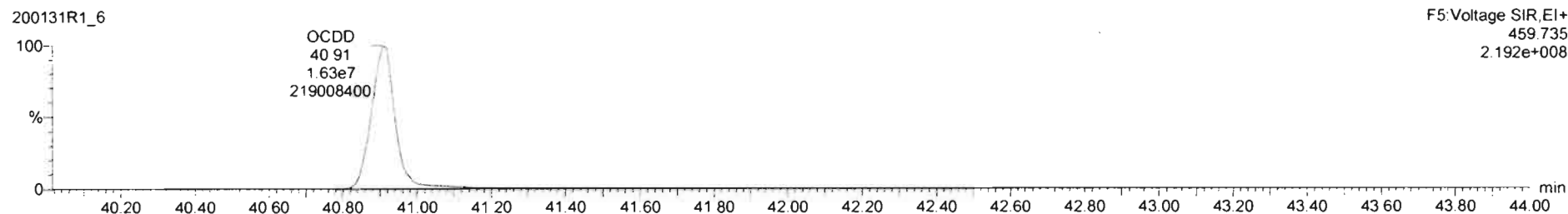
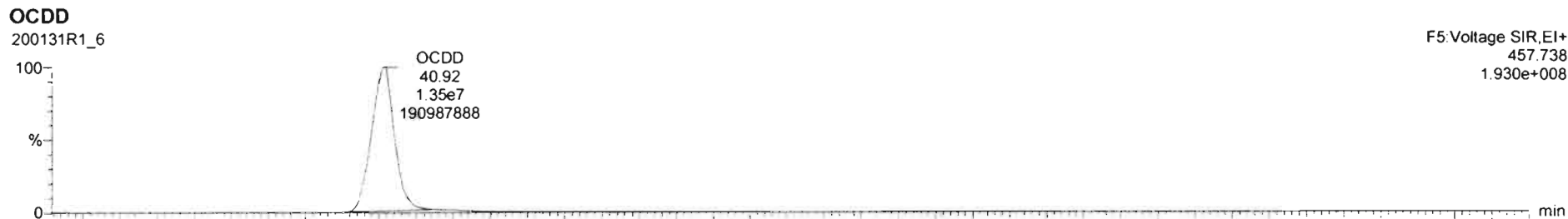
200131R1_6



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307



Dataset: Untitled

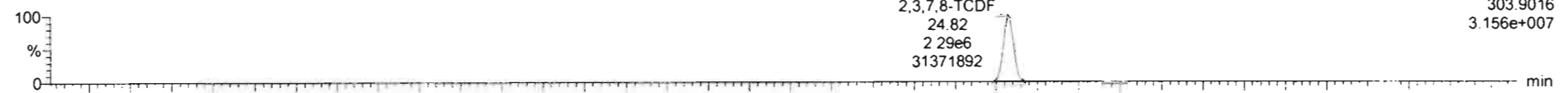
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

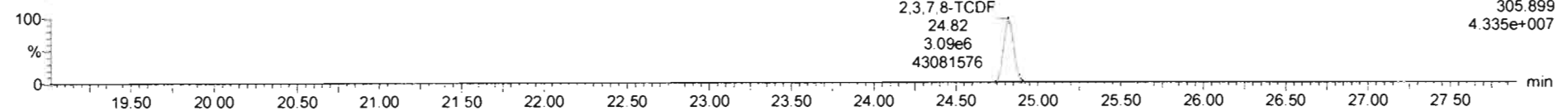
Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

2,3,7,8-TCDF

200131R1_6

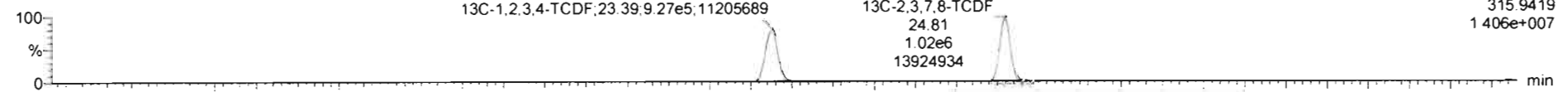


200131R1_6

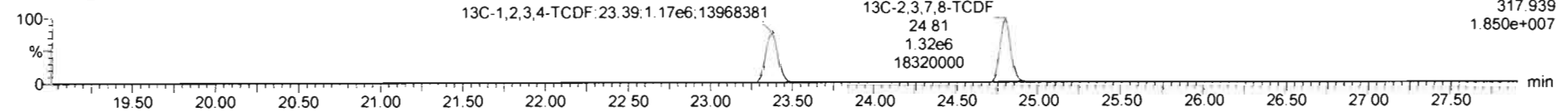


13C-2,3,7,8-TCDF

200131R1_6

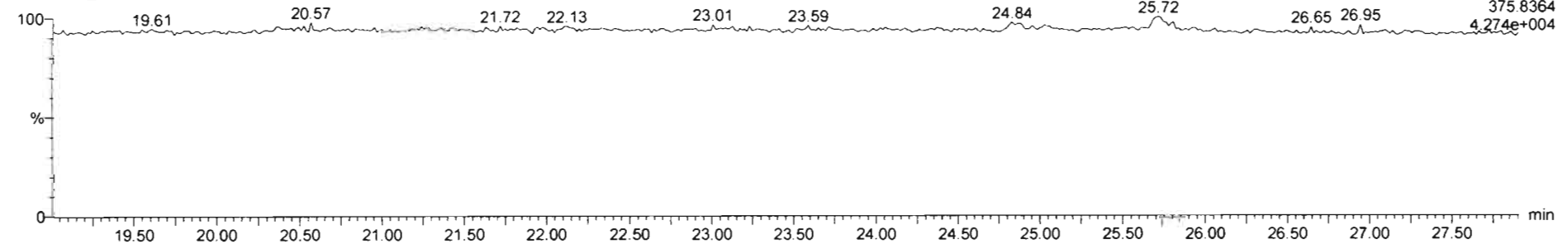


200131R1_6



DPE1

200131R1_6



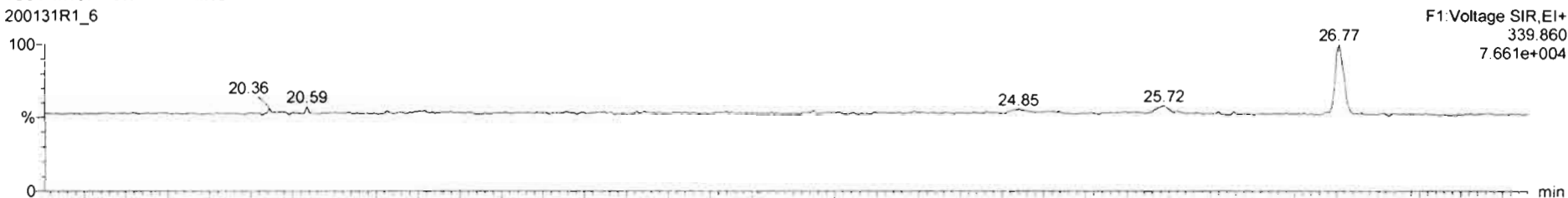
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

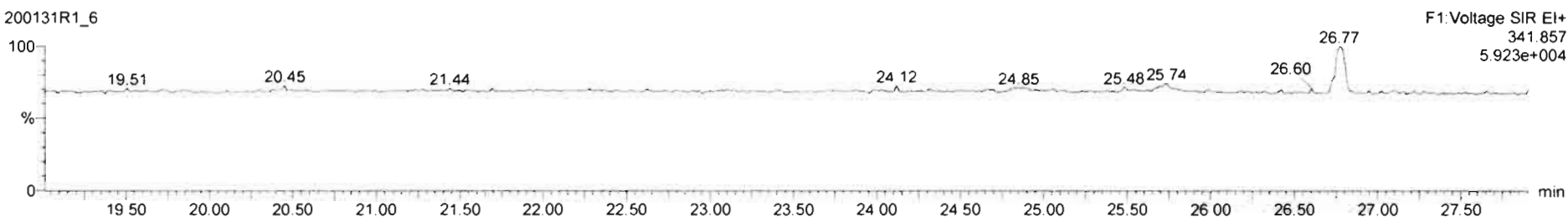
Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

1st Func. Penta-Furans

200131R1_6

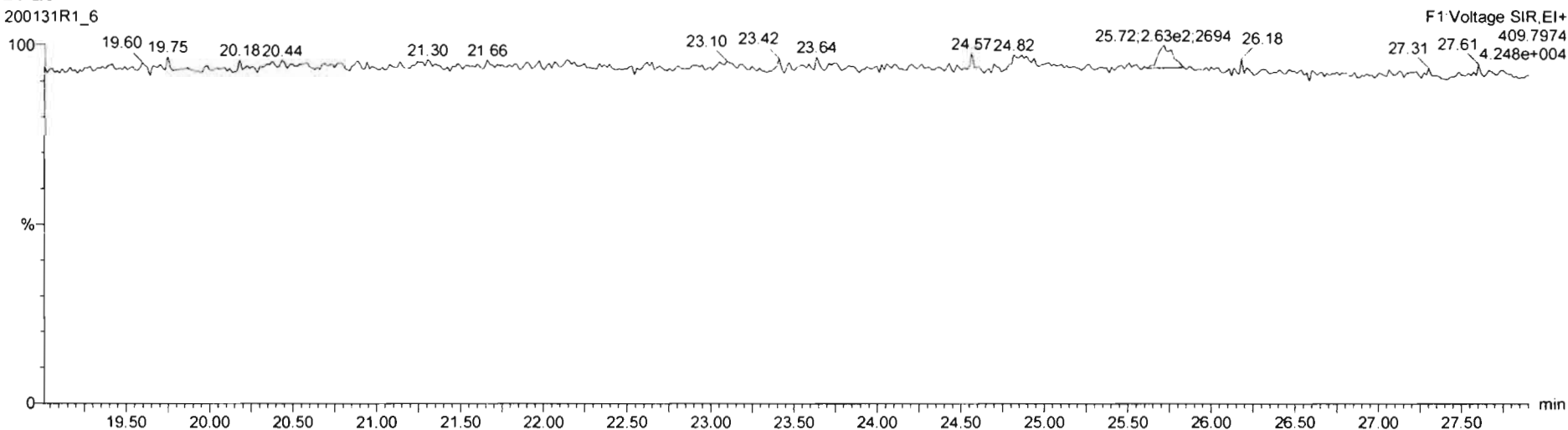


200131R1_6



DPE6

200131R1_6



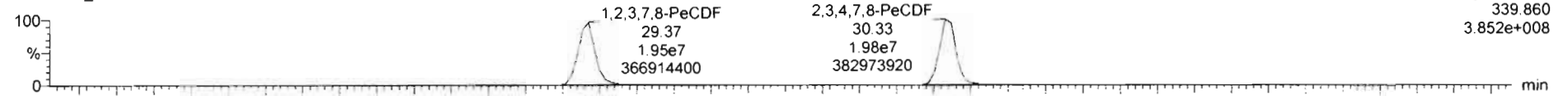
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

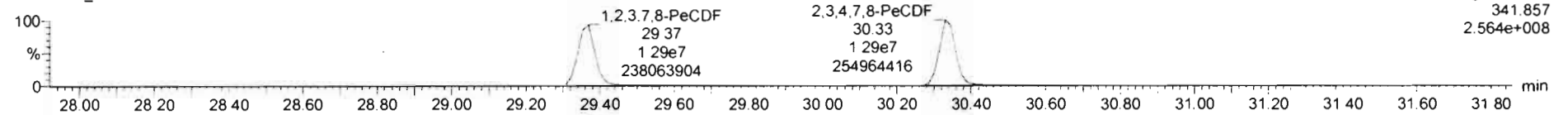
Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

1,2,3,7,8-PeCDF

200131R1_6

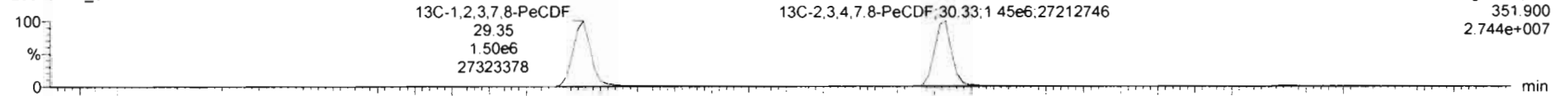


200131R1_6

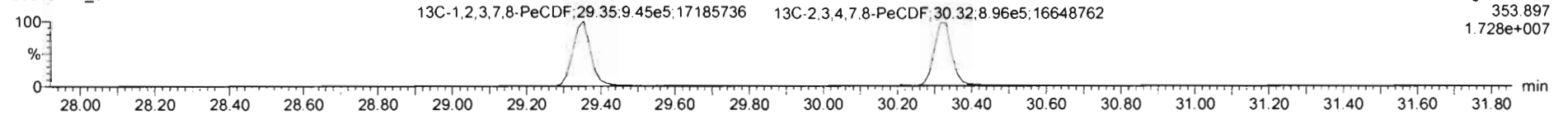


13C-1,2,3,7,8-PeCDF

200131R1_6

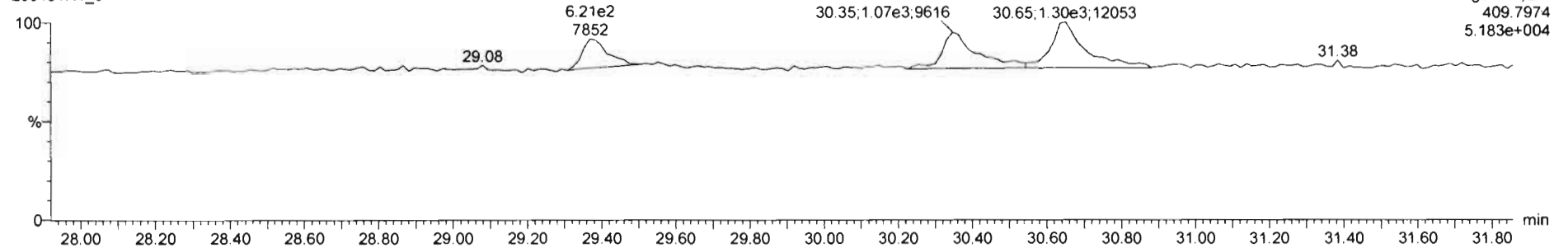


200131R1_6



DPE2

200131R1_6



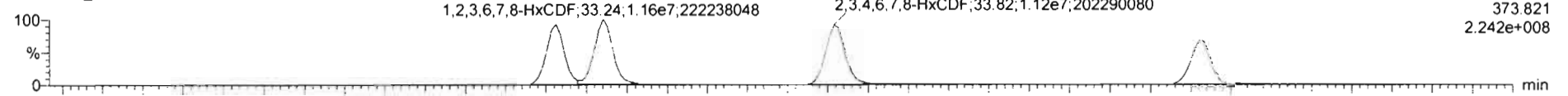
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

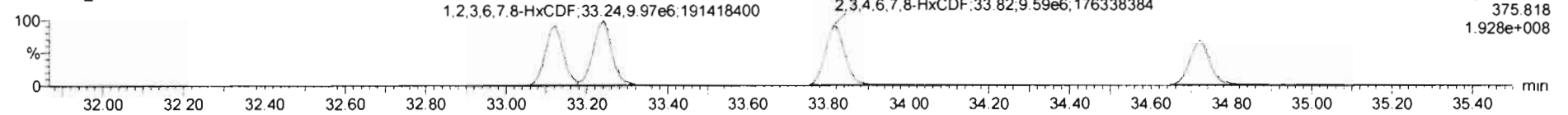
1,2,3,4,7,8-HxCDF

200131R1_6



F3:Voltage SIR,EI+
373 821
2.242e+008

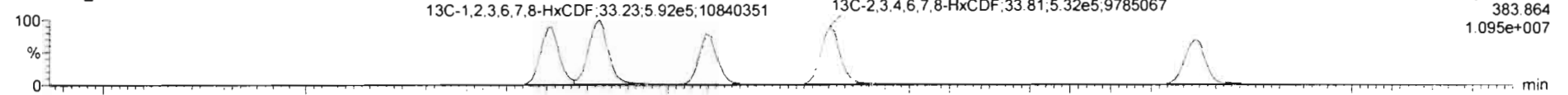
200131R1_6



F3:Voltage SIR,EI+
375 818
1.928e+008

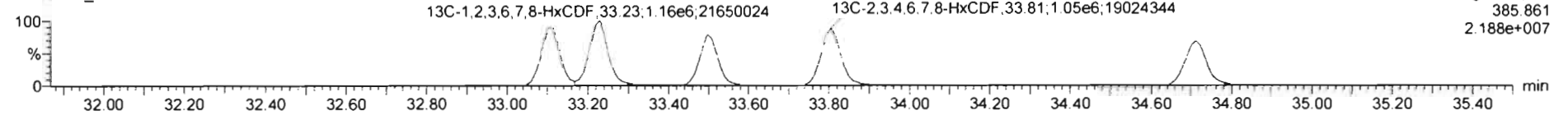
13C-1,2,3,4,7,8-HxCDF

200131R1_6



F3:Voltage SIR,EI+
383 864
1.095e+007

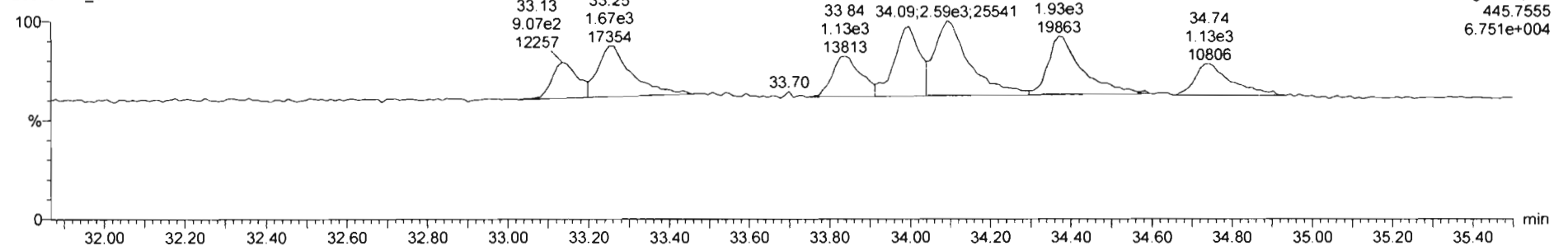
200131R1_6



F3:Voltage SIR,EI+
385 861
2.188e+007

DPE3

200131R1_6



F3:Voltage SIR,EI+
445 7555
6.751e+004

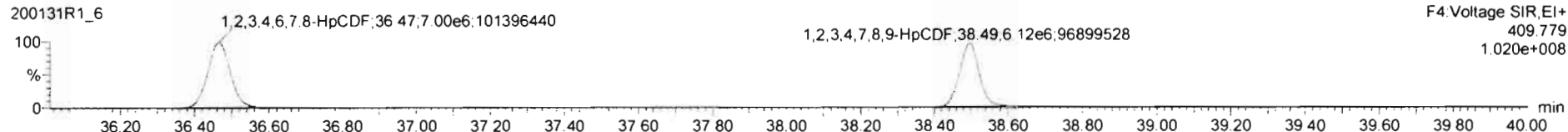
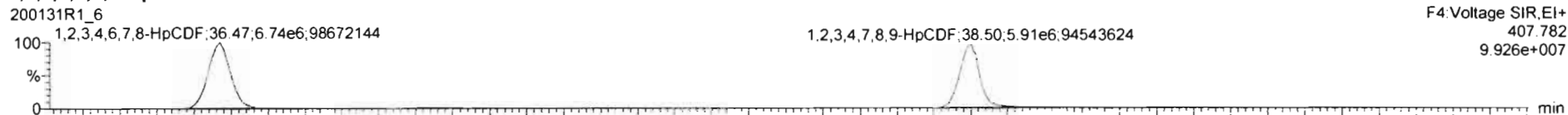
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

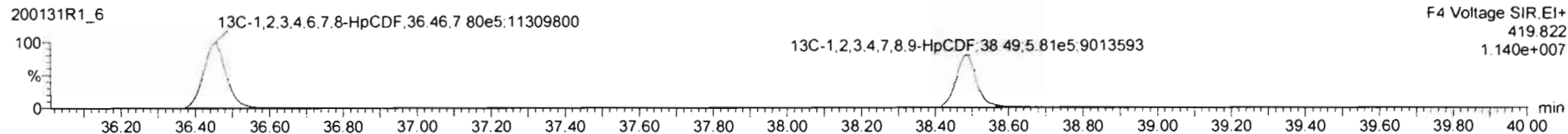
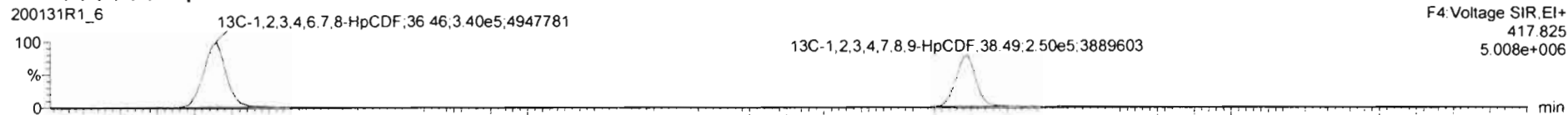
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

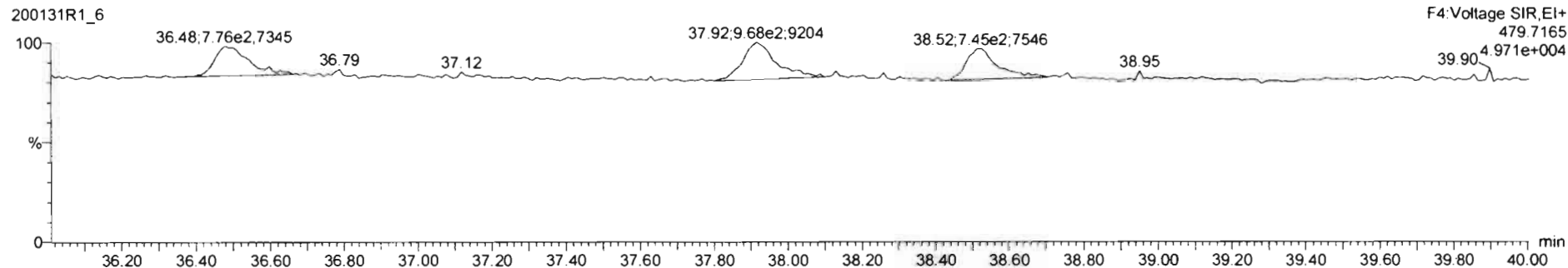
1,2,3,4,6,7,8-HpCDF



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



DPE4

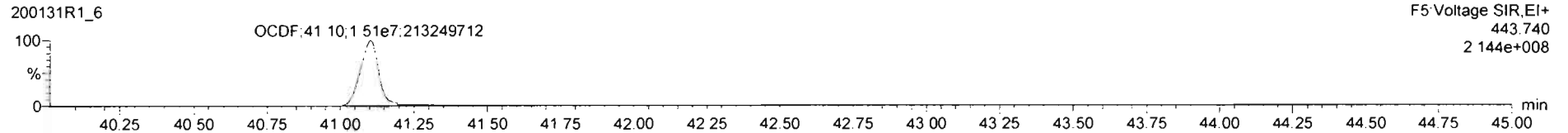
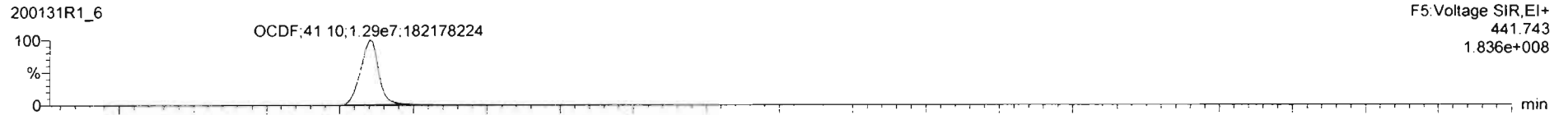


Dataset: Untitled

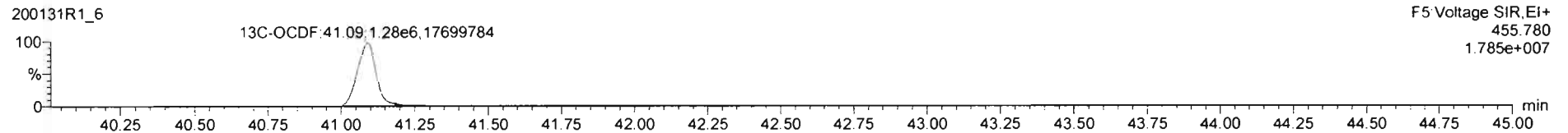
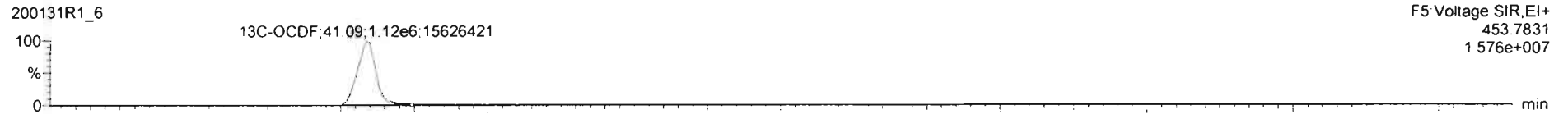
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

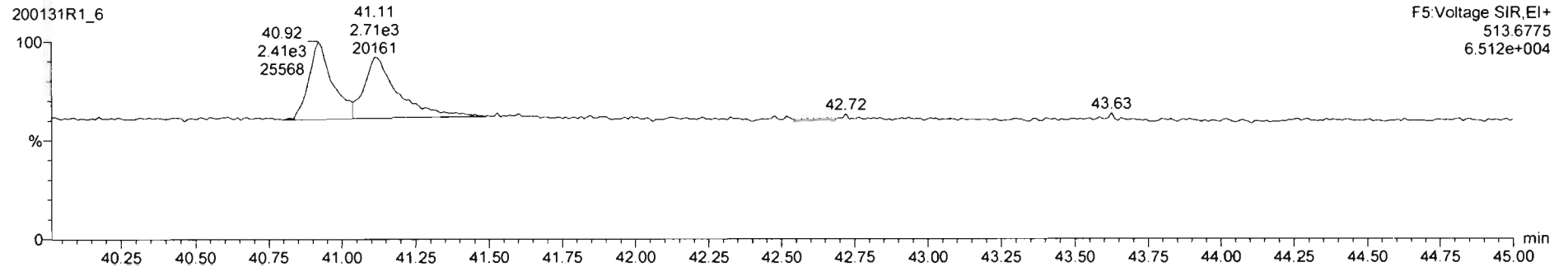
OCDF



13C-OCDF



DPE5

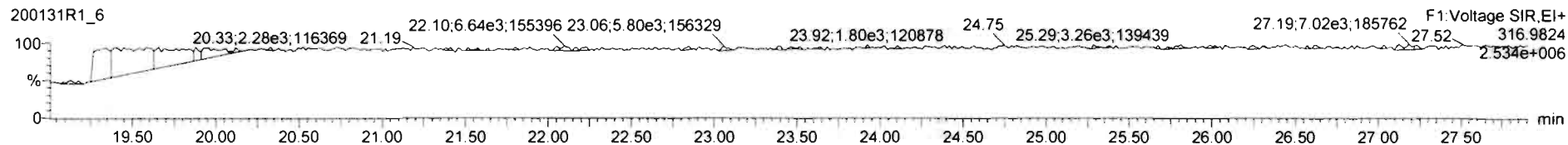


Dataset: Untitled

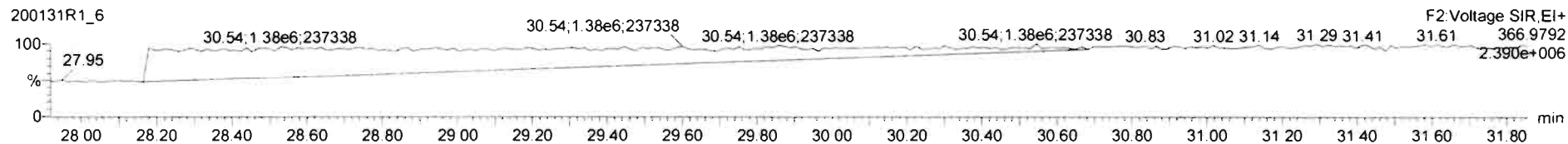
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

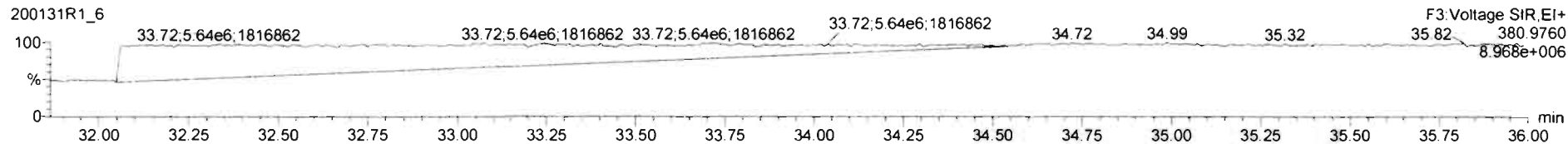
PFK1



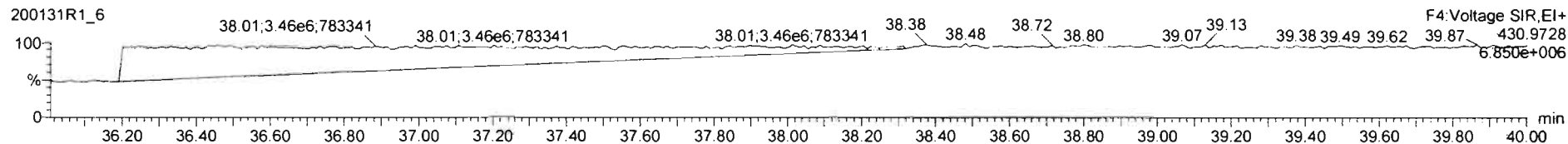
PFK2



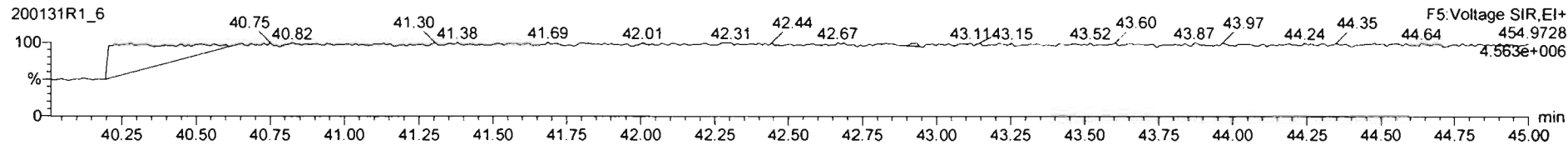
PFK3



PFK4

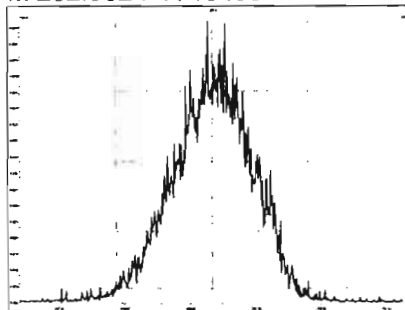


PFK5

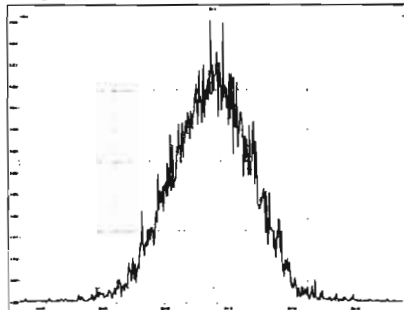


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

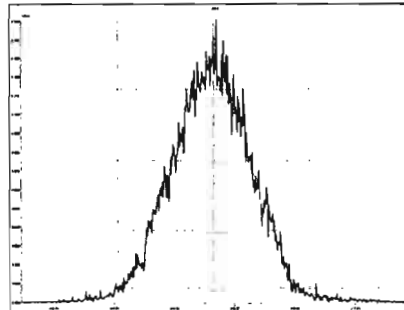
M 292.9824 R 10460



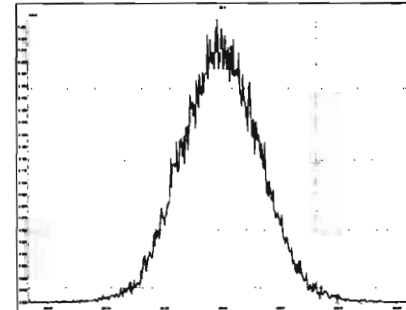
M 304.9824 R 11062



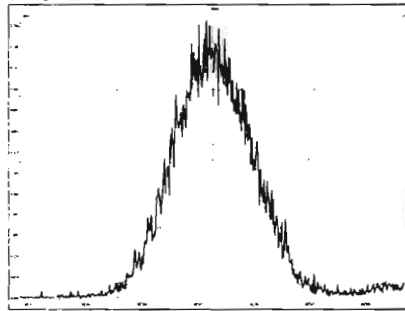
M 318.9792 R 11312



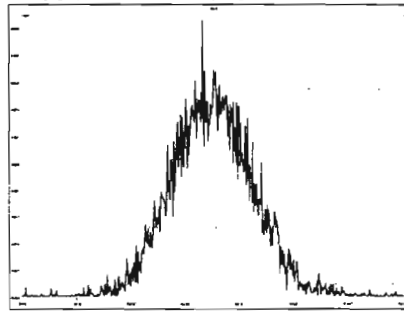
M 330.9792 R 10988



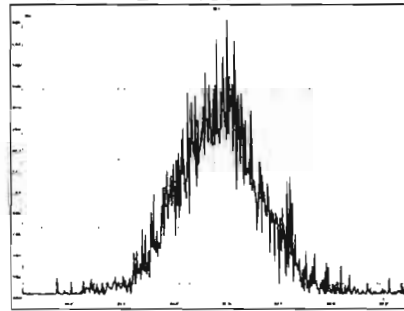
M 342.9792 R 10869



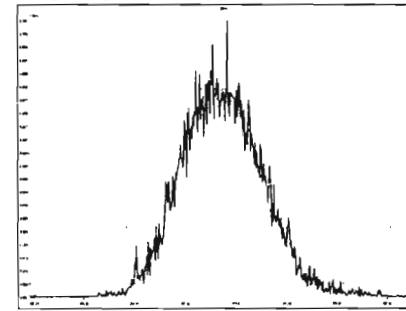
M 354.9792 R 11633



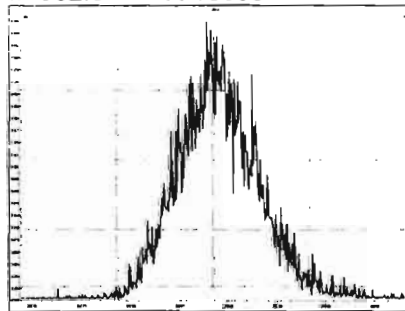
M 366.9792 R 10852



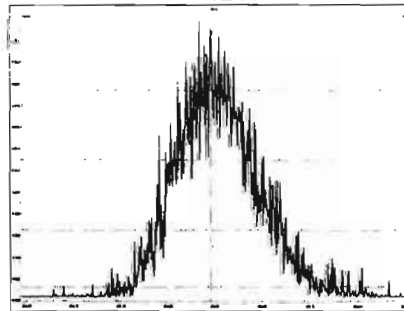
M 380.9760 R 10686



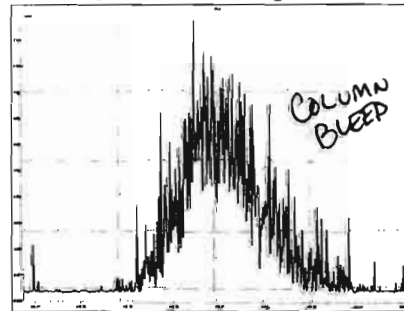
M 392.9760 R 10593



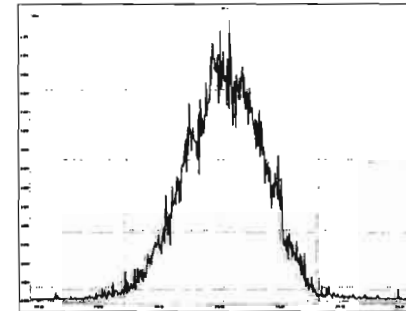
M 404.9760 R 11252



M 416.9760 R 6578 ok

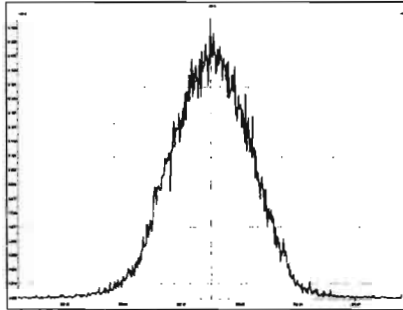


M 318.9792 R 10639

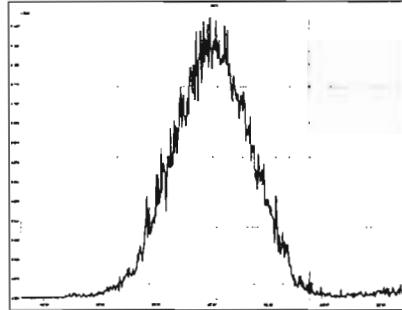


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

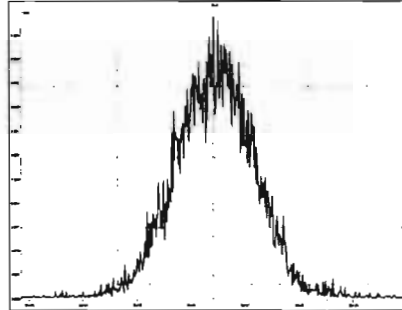
M 330.9792 R 11210



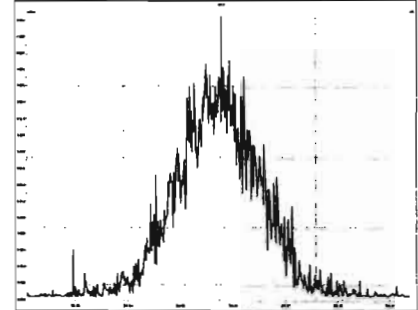
M 342.9792 R 10967



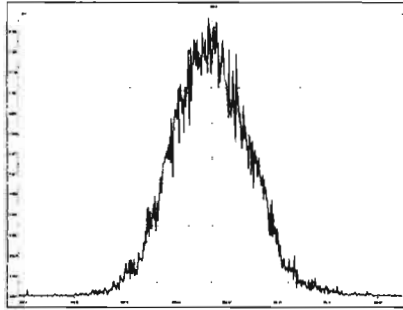
M 354.9792 R 10827



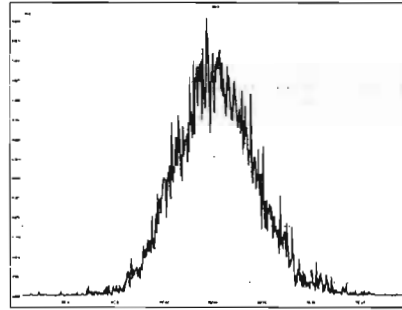
M 366.9792 R 11237



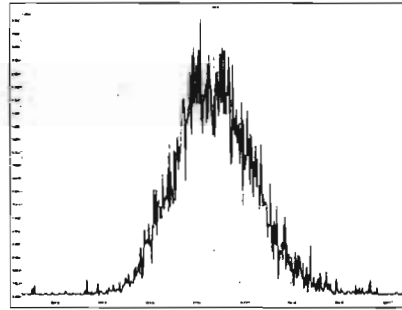
M 380.9760 R 10917



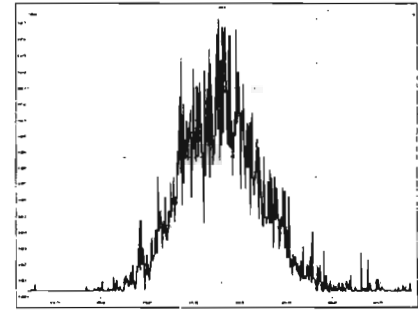
M 392.9760 R 11275



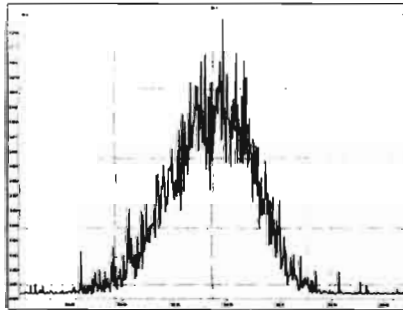
M 404.9760 R 10615



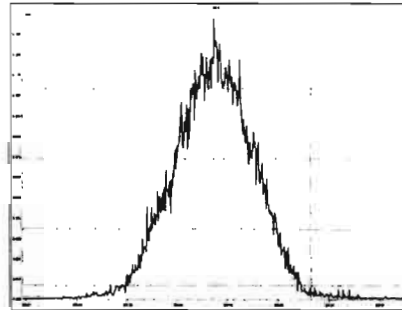
M 416.9760 R 11390



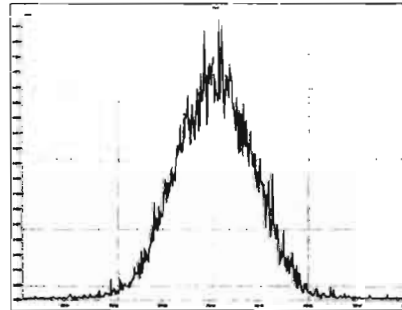
M 366.9792 R 10424



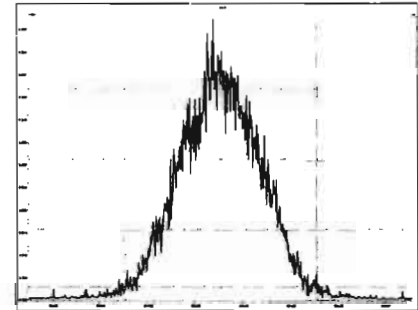
M 380.9760 R 11086



M 392.9760 R 10930

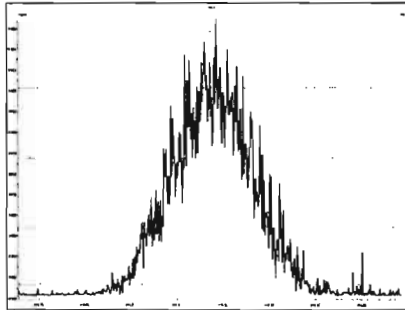


M 404.9760 R 11521

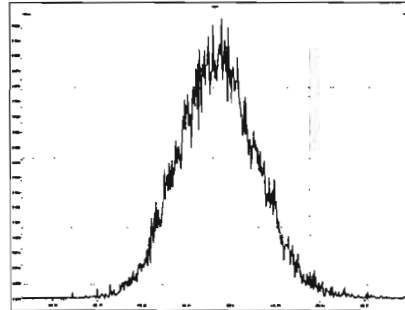


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

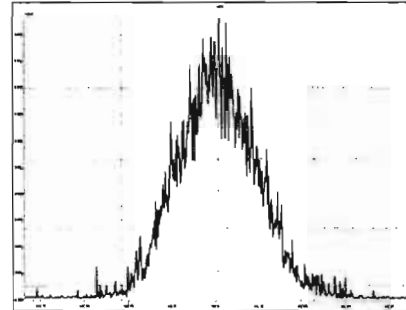
M 416.9760 R 11014



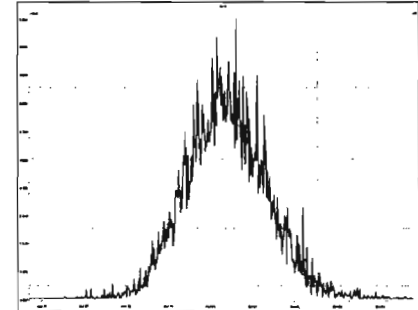
M 430.9728 R 10686



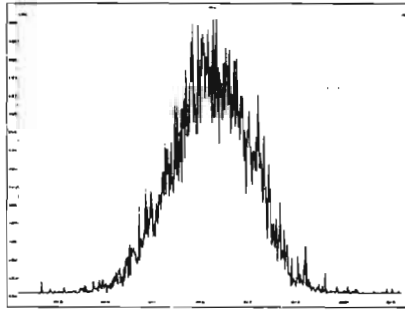
M 442.9728 R 10762



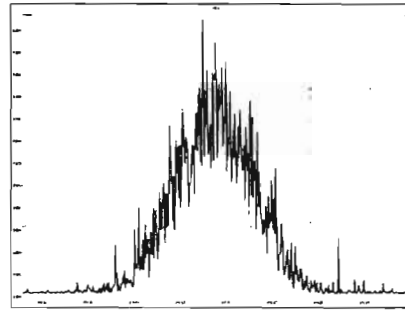
M 454.9728 R 11261



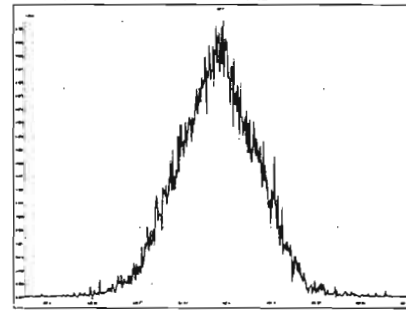
M 404.9760 R 10356



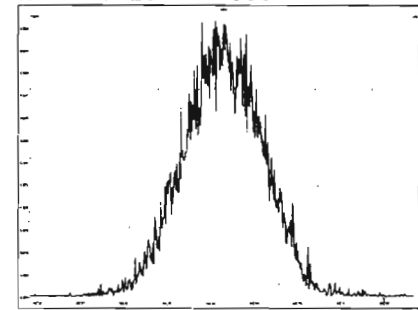
M 416.9760 R 10817



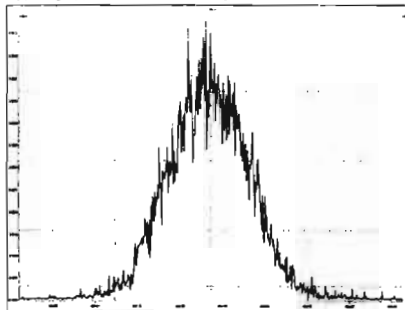
M 430.9728 R 10732



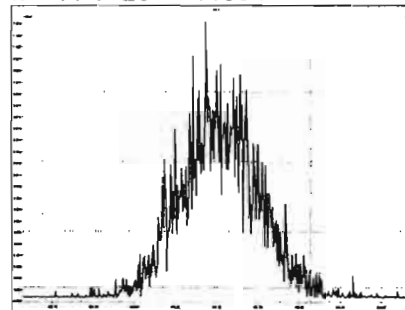
M 442.9728 R 11393



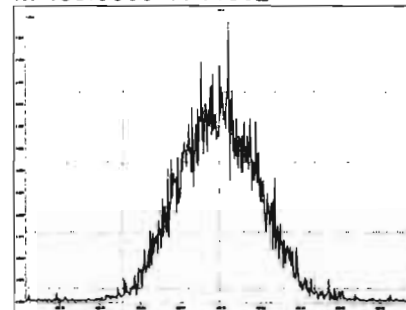
M 454.9728 R 11574



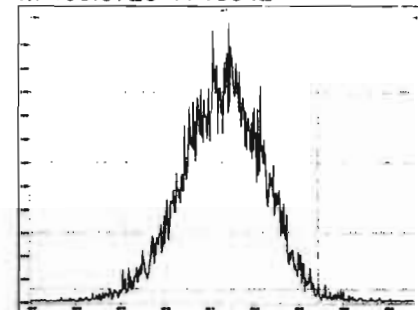
M 466.9728 R 11854



M 480.9696 R 11062

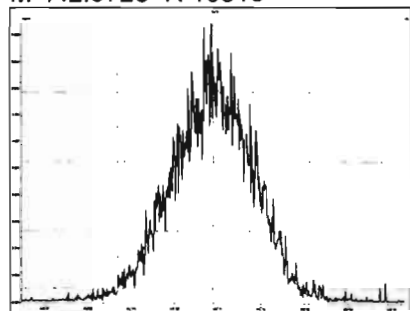


M 430.9728 R 10642

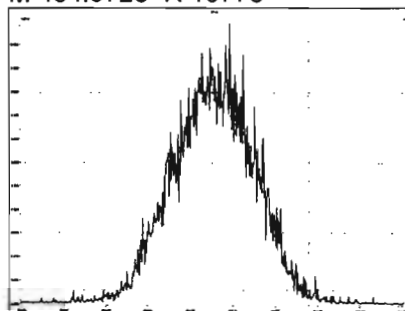


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

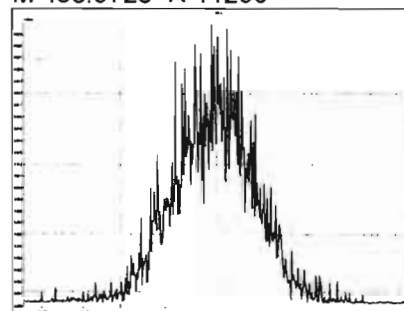
M 442.9728 R 10615



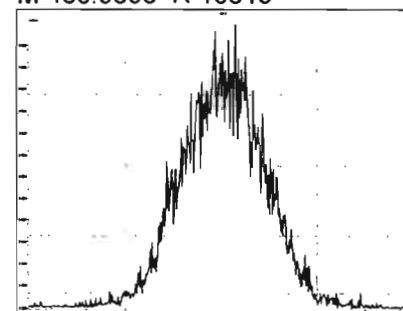
M 454.9728 R 10778



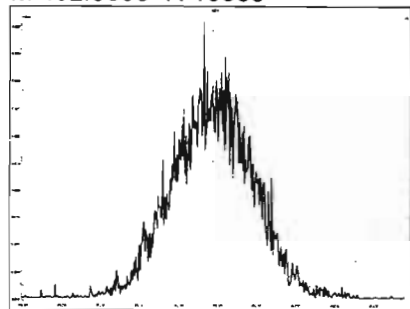
M 466.9728 R 11290



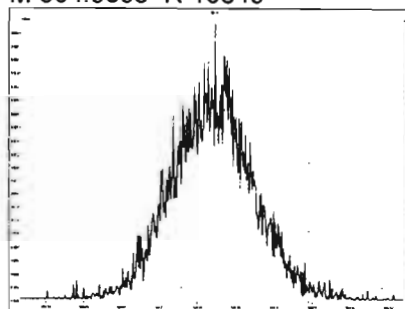
M 480.9696 R 10615



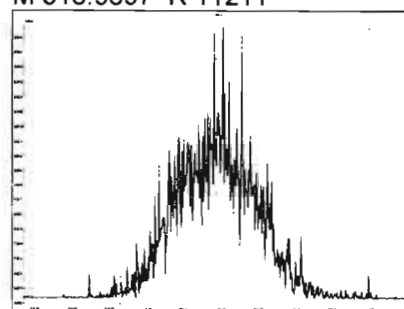
M 492.9696 R 10685



M 504.9696 R 10849



M 516.9697 R 11211



Dataset: U:\VG12.PRO\Results\200131R1\200131R1-8.qld

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

GPB 02/02/2020

C7 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.56e5	0.77	NO	0.988	1.000	25.691	25.69	1.001	1.001	10.621	106	0.0312	10.6
2	2 1,2,3,7,8-PeCDD	6.38e5	0.61	NO	0.972	1.000	30.627	30.62	1.001	1.001	53.028	106	0.0615	53.0
3	3 1,2,3,4,7,8-HxCDD	5.69e5	1.22	NO	1.07	1.000	33.966	33.97	1.000	1.000	53.501	107	0.0848	53.5
4	4 1,2,3,6,7,8-HxCDD	6.05e5	1.23	NO	0.921	1.000	34.062	34.07	1.000	1.000	57.295	115	0.0864	57.3
5	5 1,2,3,7,8,9-HxCDD	5.57e5	1.21	NO	0.918	1.000	34.373	34.35	1.001	1.000	55.837	112	0.0961	55.8
6	6 1,2,3,4,6,7,8-HpCDD	4.04e5	1.06	NO	0.923	1.000	37.886	37.90	1.000	1.001	54.330	109	0.220	54.3
7	7 OCDD	7.74e5	0.92	NO	0.975	1.000	40.878	40.89	1.000	1.000	108.30	108	0.139	108
8	8 2,3,7,8-TCDF	1.73e5	0.74	NO	0.802	1.000	24.802	24.79	1.001	1.001	10.751	108	0.0280	10.8
9	9 1,2,3,7,8-PeCDF	9.70e5	1.53	NO	0.907	1.000	29.345	29.34	1.001	1.001	54.081	108	0.0886	54.1
10	10 2,3,4,7,8-PeCDF	1.11e6	1.53	NO	0.952	1.000	30.331	30.32	1.001	1.001	60.939	122	0.0845	60.9
11	11 1,2,3,4,7,8-HxCDF	5.97e5	1.15	NO	0.862	1.000	33.093	33.10	1.000	1.000	56.486	113	0.117	56.5
12	12 1,2,3,6,7,8-HxCDF	6.65e5	1.16	NO	0.841	1.000	33.220	33.22	1.000	1.000	55.919	112	0.104	55.9
13	13 2,3,4,6,7,8-HxCDF	5.96e5	1.17	NO	0.898	1.000	33.819	33.81	1.001	1.001	53.809	108	0.119	53.8
14	14 1,2,3,7,8,9-HxCDF	4.82e5	1.16	NO	0.858	1.000	34.690	34.71	1.000	1.001	54.259	109	0.175	54.3
15	15 1,2,3,4,6,7,8-HpCDF	4.07e5	0.95	NO	0.851	1.000	36.473	36.45	1.001	1.000	56.639	113	0.174	56.6
16	16 1,2,3,4,7,8,9-HpCDF	3.25e5	0.98	NO	0.980	1.000	38.471	38.48	1.000	1.000	55.517	111	0.189	55.5
17	17 OCDF	7.18e5	0.86	NO	0.806	1.000	41.070	41.08	1.000	1.000	105.51	106	0.148	106
18	18 13C-2,3,7,8-TCDD	1.49e6	0.78	NO	1.20	1.000	25.660	25.66	1.026	1.026	92.060	92.1	0.106	
19	19 13C-1,2,3,7,8-PeCDD	1.24e6	0.64	NO	0.967	1.000	30.395	30.61	1.215	1.223	95.149	95.1	0.134	
20	20 13C-1,2,3,4,7,8-HxCDD	9.93e5	1.27	NO	0.874	1.000	33.955	33.96	1.014	1.014	87.678	87.7	0.159	
21	21 13C-1,2,3,6,7,8-HxCDD	1.15e6	1.25	NO	1.05	1.000	34.056	34.06	1.017	1.017	84.618	84.6	0.133	
22	22 13C-1,2,3,7,8,9-HxCDD	1.09e6	1.25	NO	0.974	1.000	34.357	34.34	1.026	1.025	86.118	86.1	0.143	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.06e5	1.06	NO	0.747	1.000	37.907	37.87	1.132	1.131	83.254	83.3	0.245	
24	24 13C-OCDD	1.47e6	0.89	NO	0.707	1.000	40.787	40.88	1.218	1.221	160.15	80.1	0.173	
25	25 13C-2,3,7,8-TCDF	2.01e6	0.78	NO	1.07	1.000	24.842	24.78	0.993	0.990	91.210	91.2	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.98e6	1.58	NO	1.00	1.000	29.170	29.32	1.166	1.172	95.322	95.3	0.190	
27	27 13C-2,3,4,7,8-PeCDF	1.91e6	1.60	NO	0.962	1.000	30.120	30.30	1.204	1.211	96.164	96.2	0.198	
28	28 13C-1,2,3,4,7,8-HxCDF	1.23e6	0.52	NO	1.05	1.000	33.085	33.09	0.988	0.988	90.119	90.1	0.194	
29	29 13C-1,2,3,6,7,8-HxCDF	1.41e6	0.50	NO	1.19	1.000	33.185	33.21	0.991	0.992	91.687	91.7	0.171	
30	30 13C-2,3,4,6,7,8-HxCDF	1.23e6	0.51	NO	1.07	1.000	33.791	33.78	1.009	1.009	89.274	89.3	0.190	
31	31 13C-1,2,3,7,8,9-HxCDF	1.04e6	0.51	NO	0.922	1.000	34.692	34.69	1.036	1.036	86.700	86.7	0.220	

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-8.qld

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	8.43e5	0.43	NO	0.767	1.000	36.433	36.44	1.088	1.088	84.846	84.8	0.232	
33	13C-1,2,3,4,7,8,9-HpCDF	5.98e5	0.43	NO	0.552	1.000	38.443	38.47	1.148	1.149	83.515	83.5	0.322	
34	13C-OCDF	1.69e6	0.90	NO	0.789	1.000	41.021	41.07	1.225	1.226	165.15	82.6	0.137	
35	37Cl-2,3,7,8-TCDD	1.57e5			1.18	1.000	25.692	25.69	1.027	1.027	9.9110	99.1	0.0232	
36	13C-1,2,3,4-TCDD	1.35e6	0.81	NO	1.00	1.000	25.080	25.02	1.000	1.000	100.00	100	0.128	
37	13C-1,2,3,4-TCDF	2.07e6	0.79	NO	1.00	1.000	23.420	23.36	1.000	1.000	100.00	100	0.152	
38	13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.00	1.000	33.520	33.49	1.000	1.000	100.00	100	0.203	

Dataset: Untitled

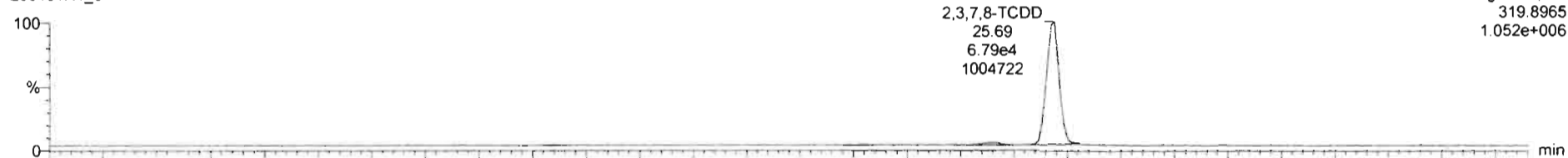
Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

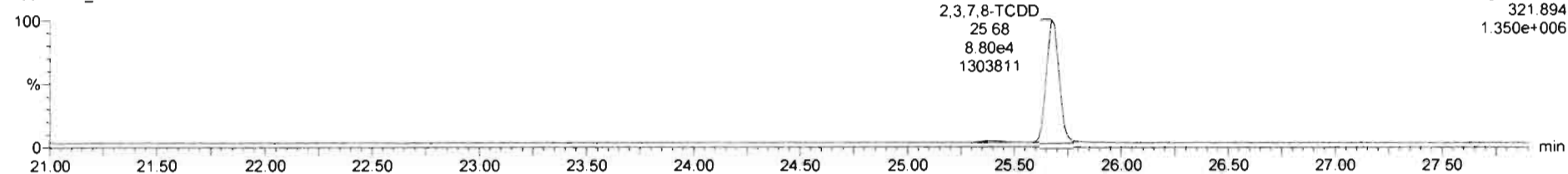
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDD

200131R1_8

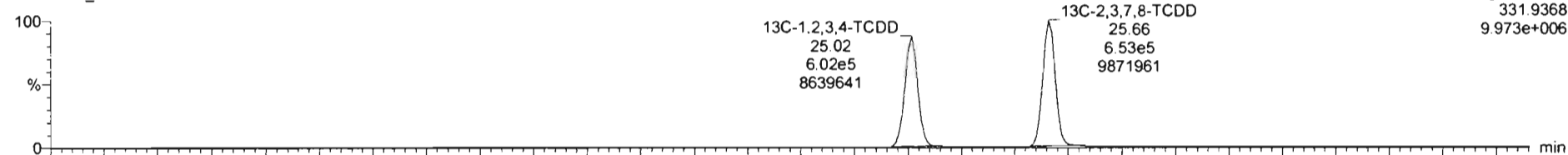


200131R1_8

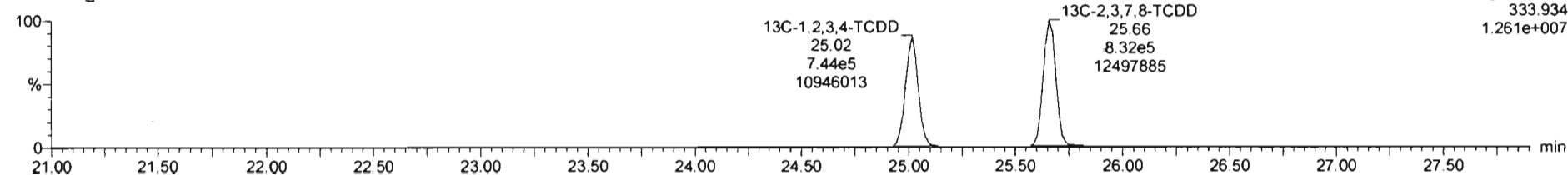


13C-2,3,7,8-TCDD

200131R1_8



200131R1_8



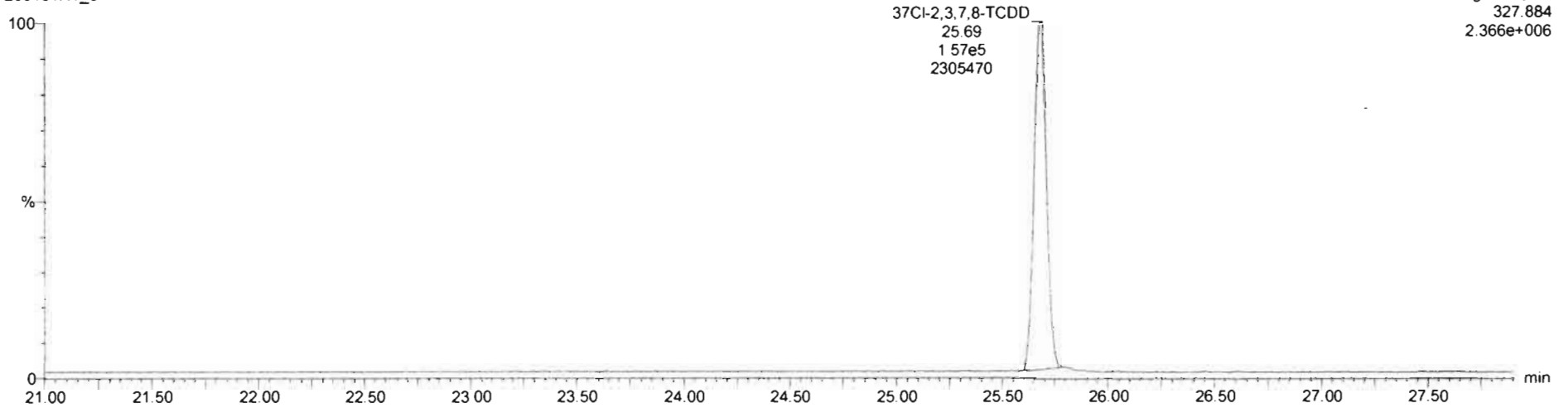
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

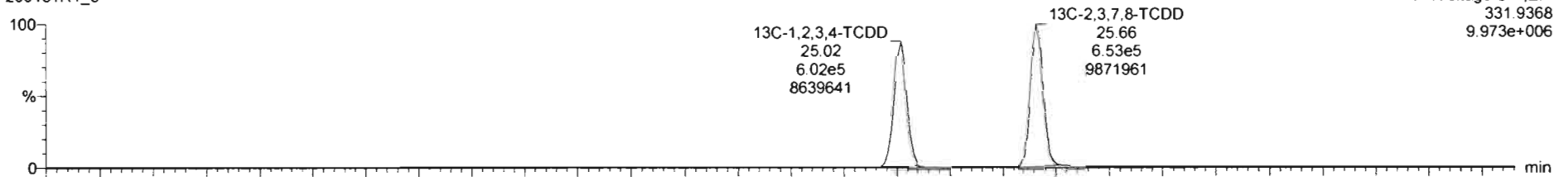
37Cl-2,3,7,8-TCDD

200131R1_8

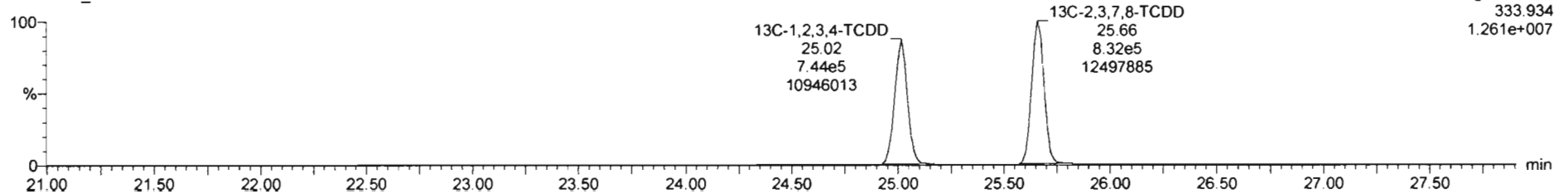


13C-1,2,3,4-TCDD

200131R1_8



200131R1_8



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,7,8-PeCDD

200131R1_8

1,2,3,7,8-PeCDD
30.62
2.43e5
4890309

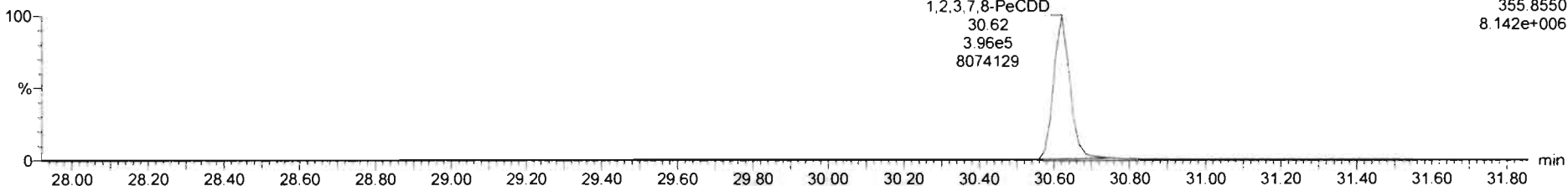
F2:Voltage SIR,EI+
353.8576
4.955e+006



200131R1_8

1,2,3,7,8-PeCDD
30.62
3.96e5
8074129

F2:Voltage SIR,EI+
355.8550
8.142e+006

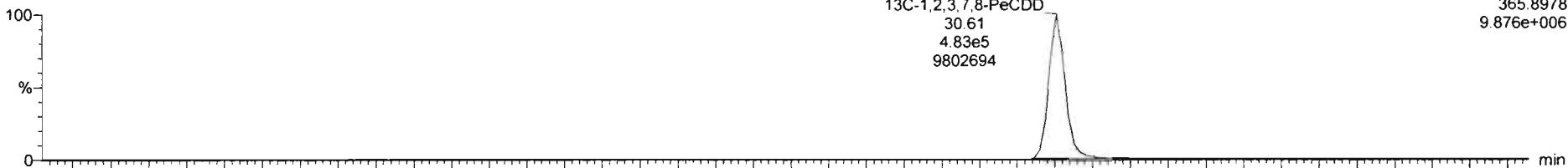


13C-1,2,3,7,8-PeCDD

200131R1_8

13C-1,2,3,7,8-PeCDD
30.61
4.83e5
9802694

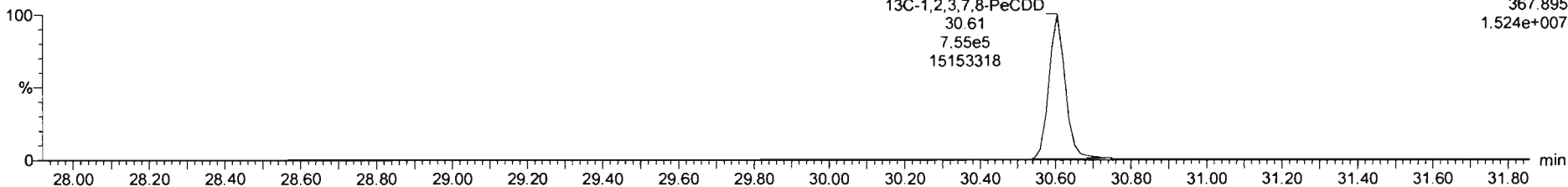
F2:Voltage SIR,EI+
365.8978
9.876e+006



200131R1_8

13C-1,2,3,7,8-PeCDD
30.61
7.55e5
15153318

F2:Voltage SIR,EI+
367.895
1.524e+007



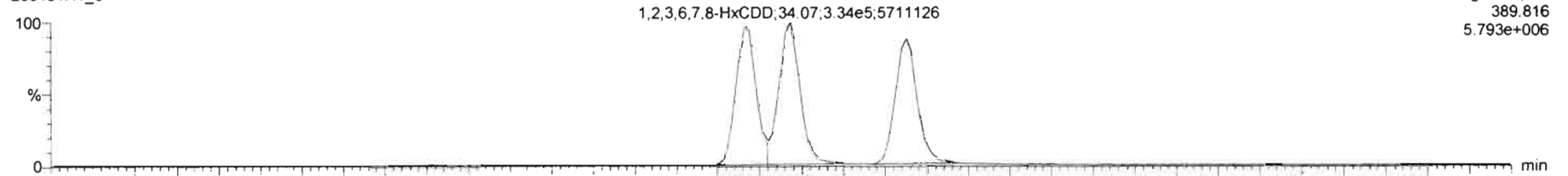
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

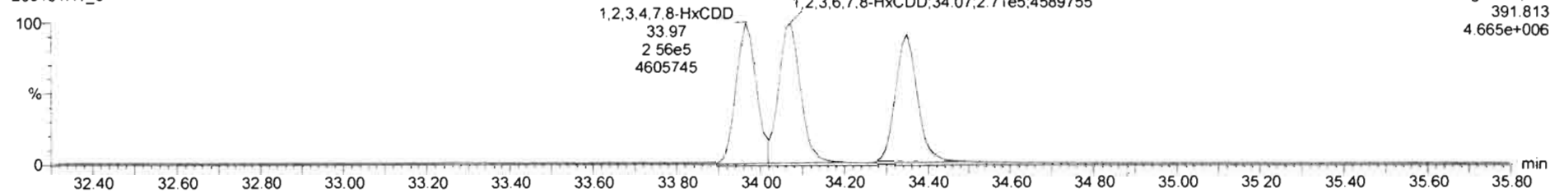
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200131R1_8

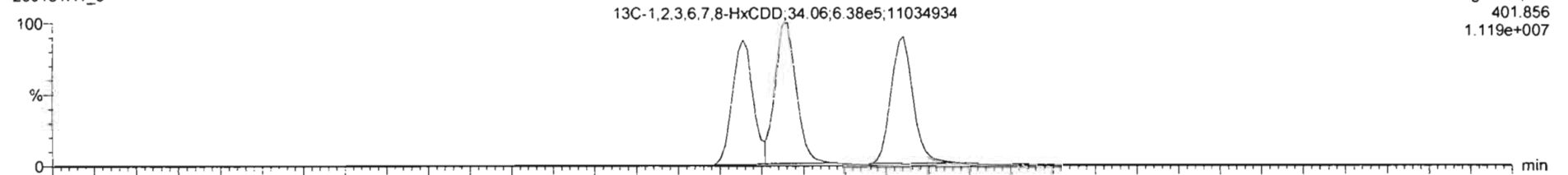


200131R1_8

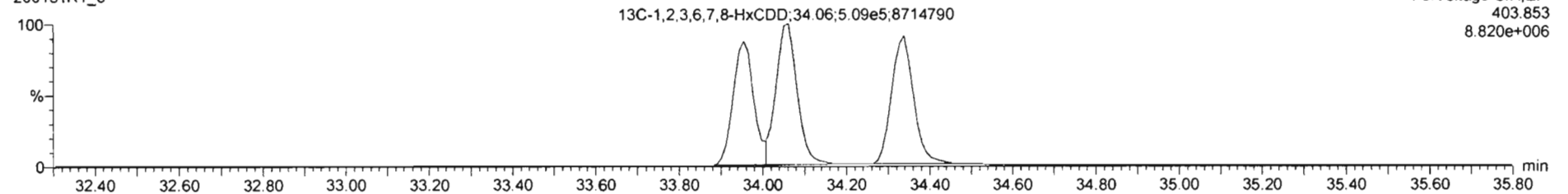


13C-1,2,3,4,7,8-HxCDD

200131R1_8



200131R1_8



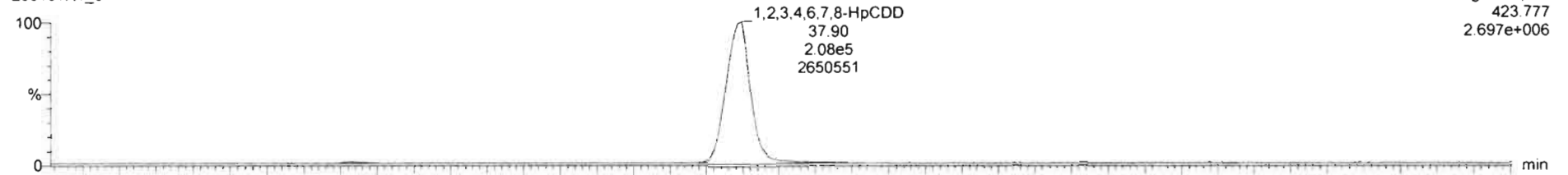
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

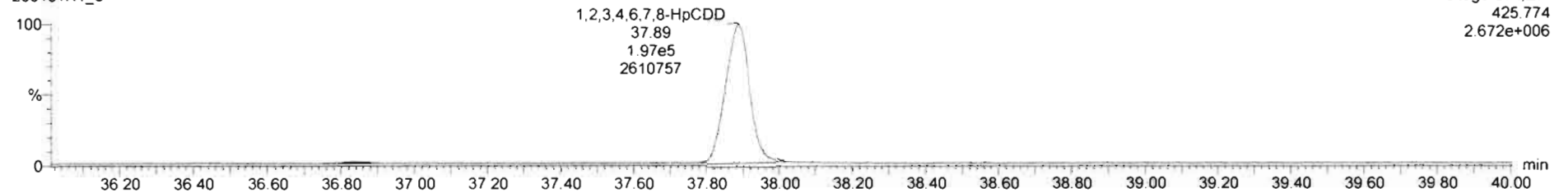
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200131R1_8

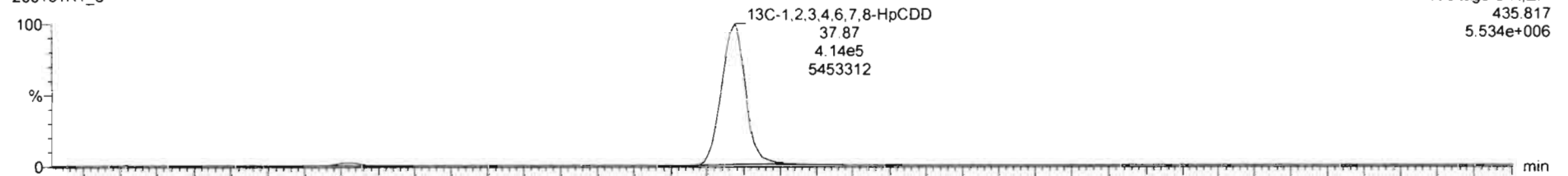


200131R1_8

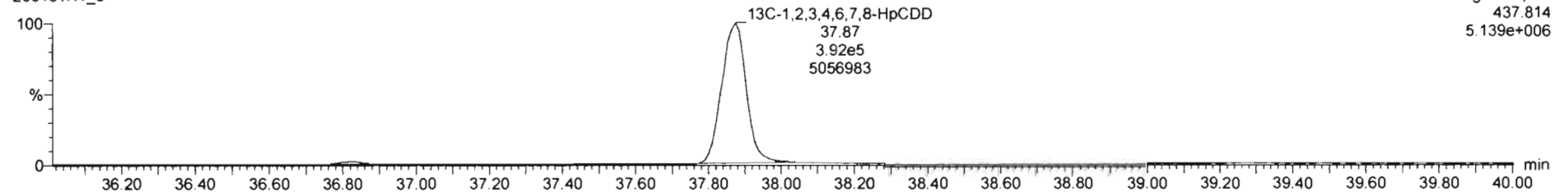


¹³C-1,2,3,4,6,7,8-HpCDD

200131R1_8



200131R1_8

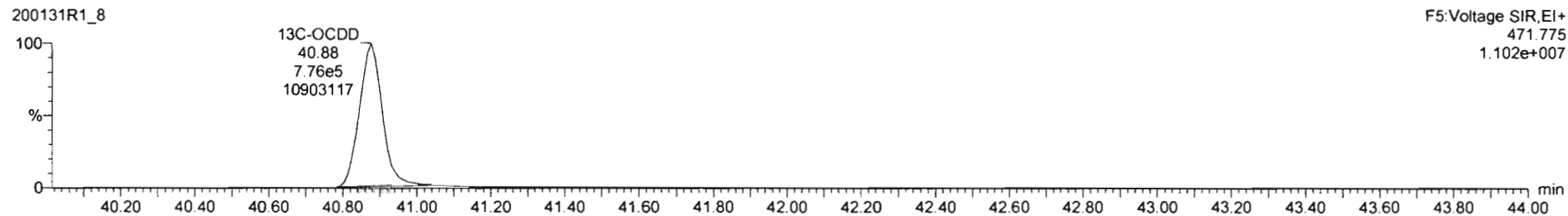
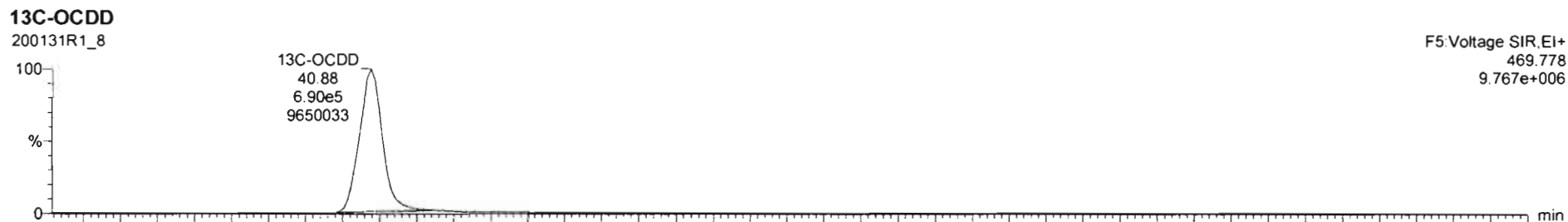
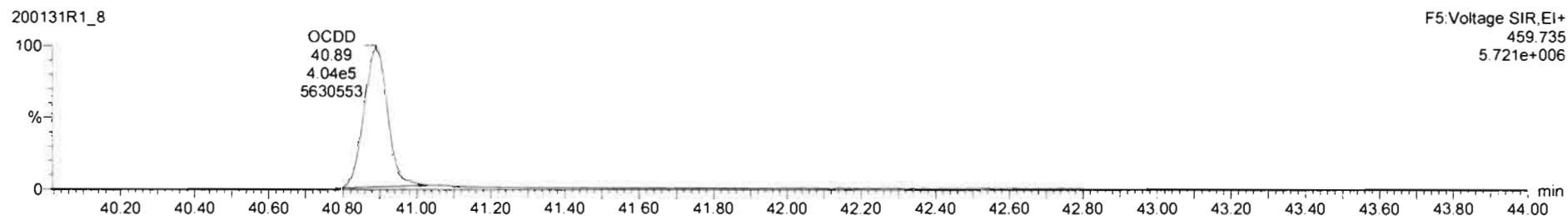
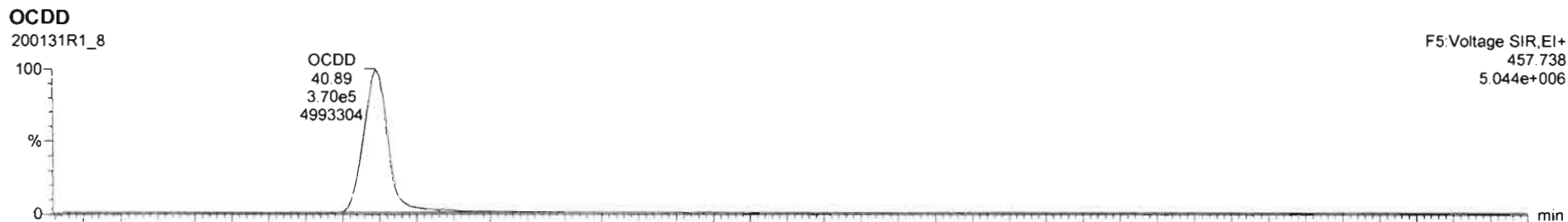


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

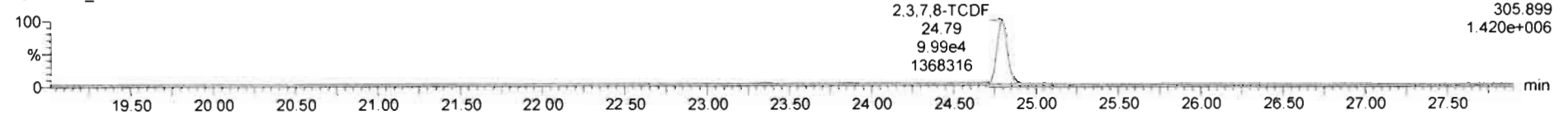
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200131R1_8

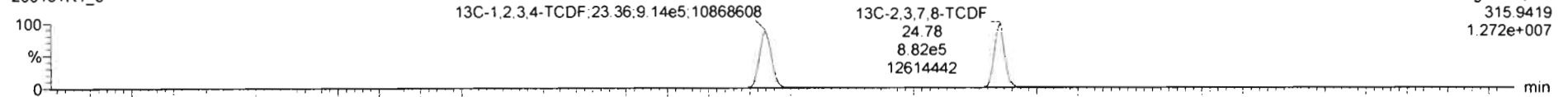


200131R1_8

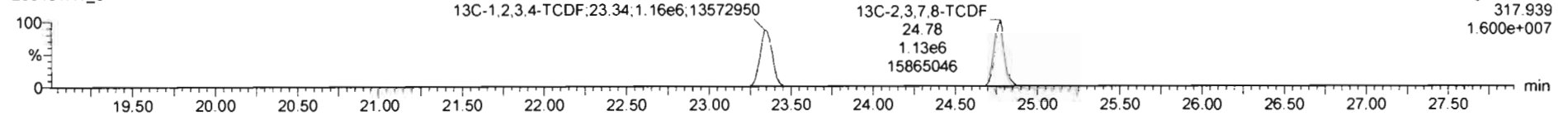


13C-2,3,7,8-TCDF

200131R1_8

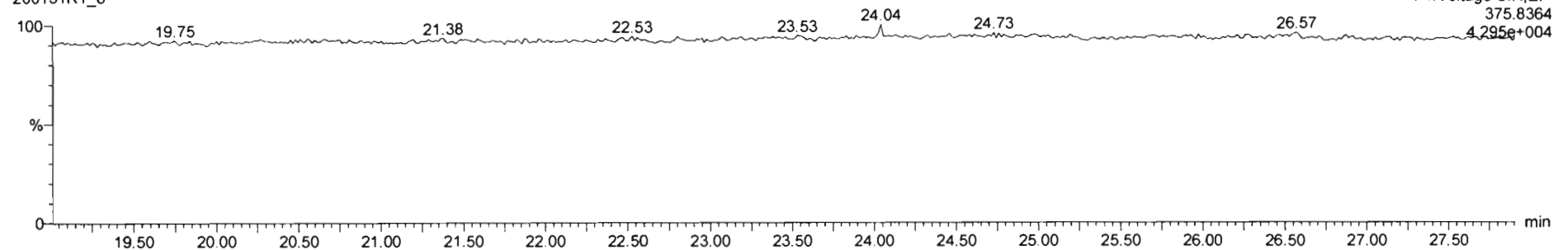


200131R1_8



DPE1

200131R1_8

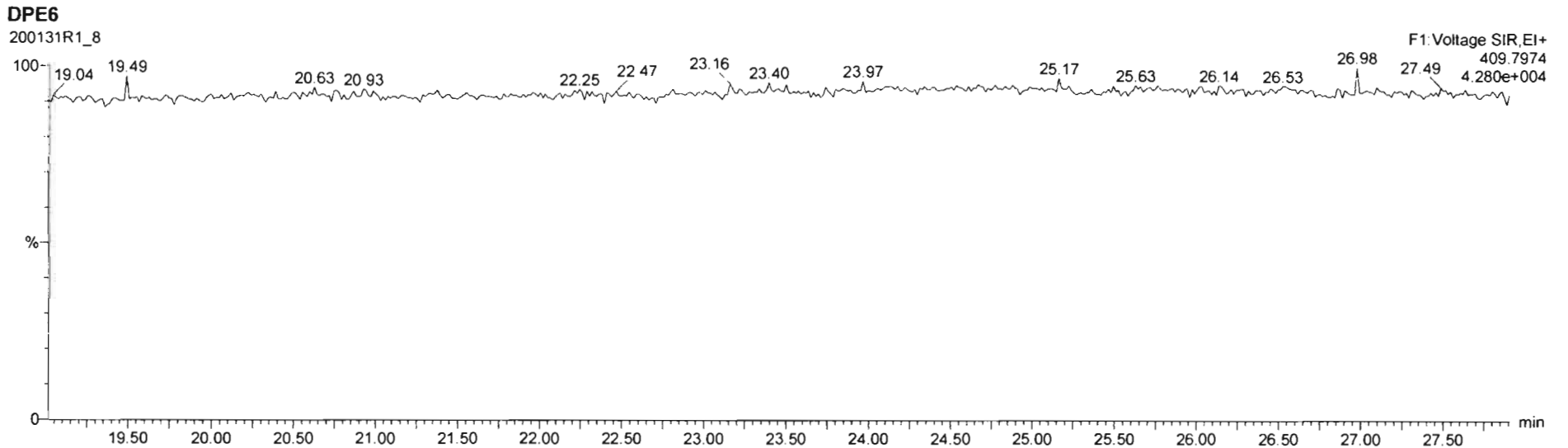
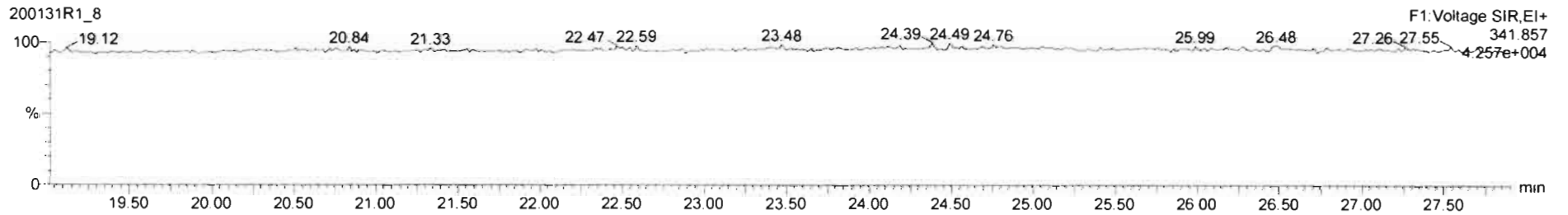
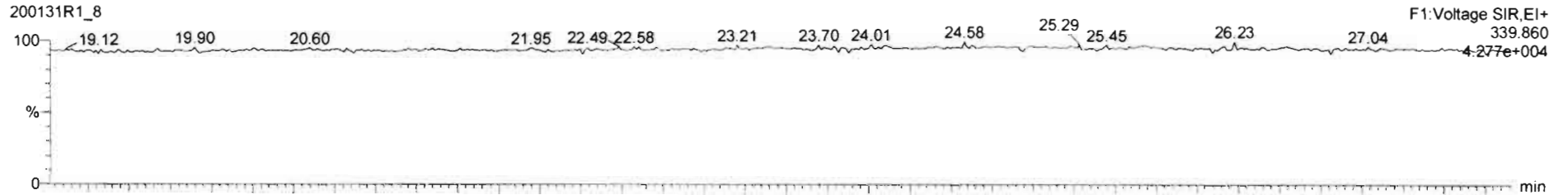


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



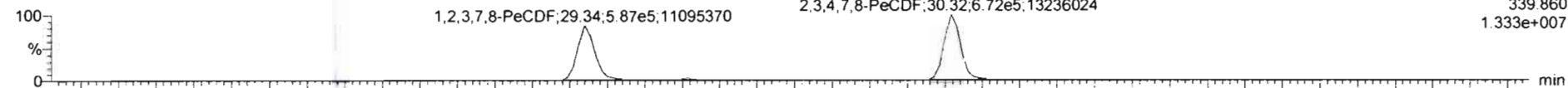
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

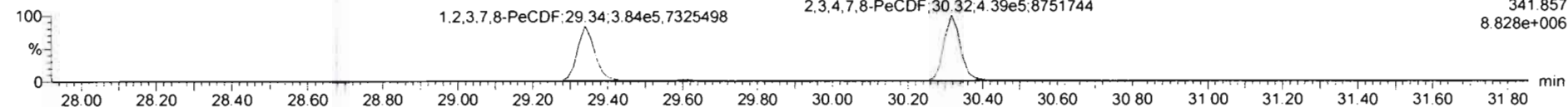
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,7,8-PeCDF

200131R1_8

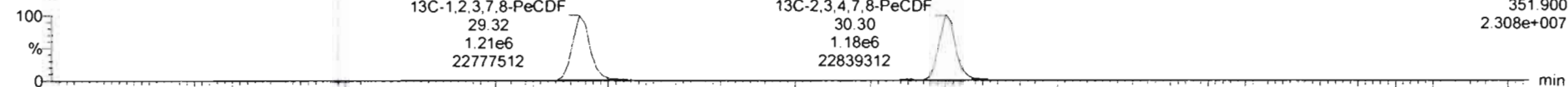


200131R1_8

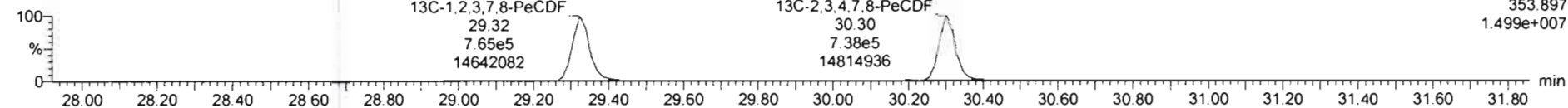


13C-1,2,3,7,8-PeCDF

200131R1_8

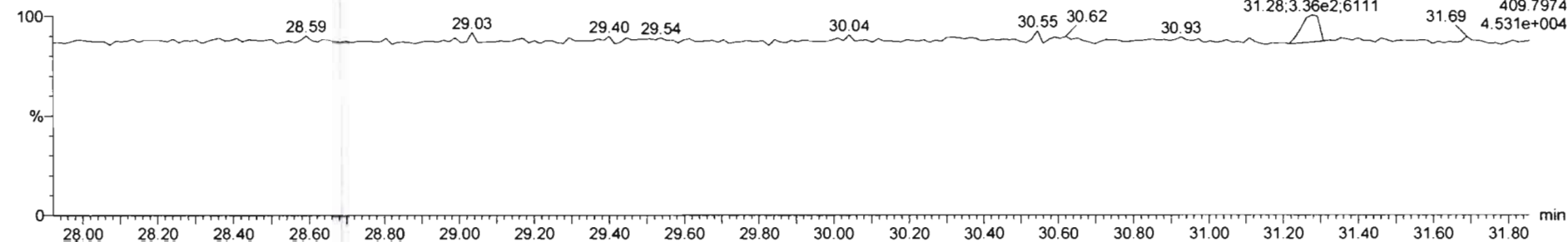


200131R1_8



DPE2

200131R1_8



Dataset: Untitled

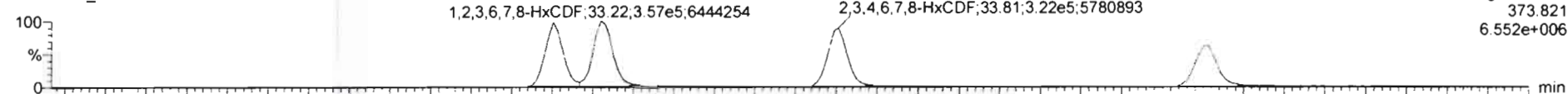
Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

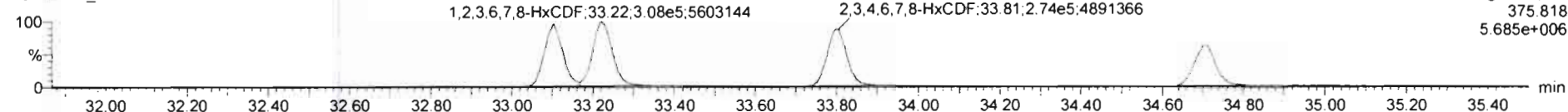
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200131R1_8

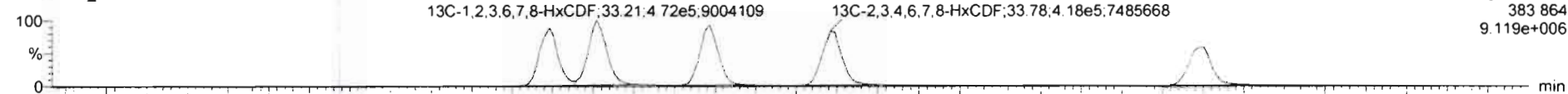


200131R1_8

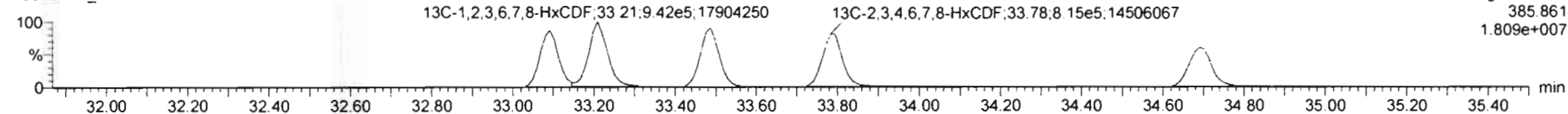


13C-1,2,3,4,7,8-HxCDF

200131R1_8

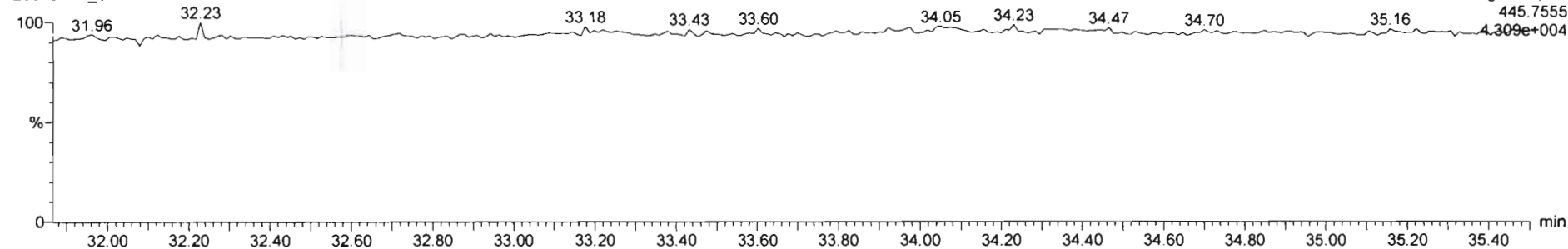


200131R1_8



DPE3

200131R1_8



Dataset: Untitled

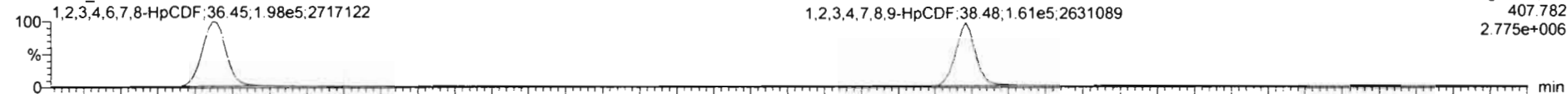
Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

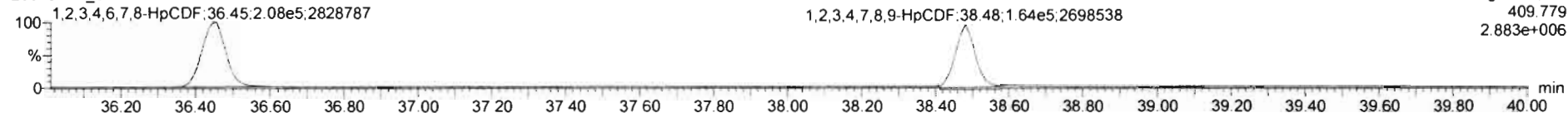
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200131R1_8

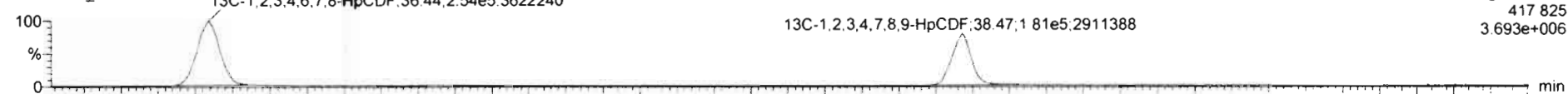


200131R1_8

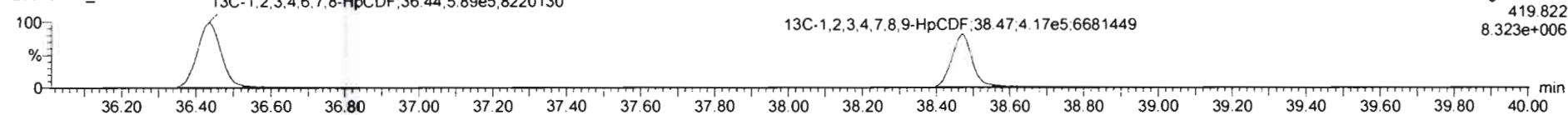


13C-1,2,3,4,6,7,8-HpCDF

200131R1_8

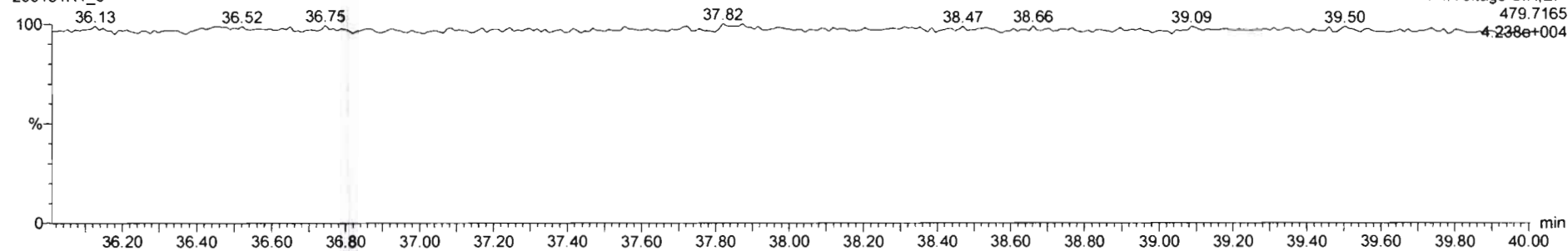


200131R1_8



DPE4

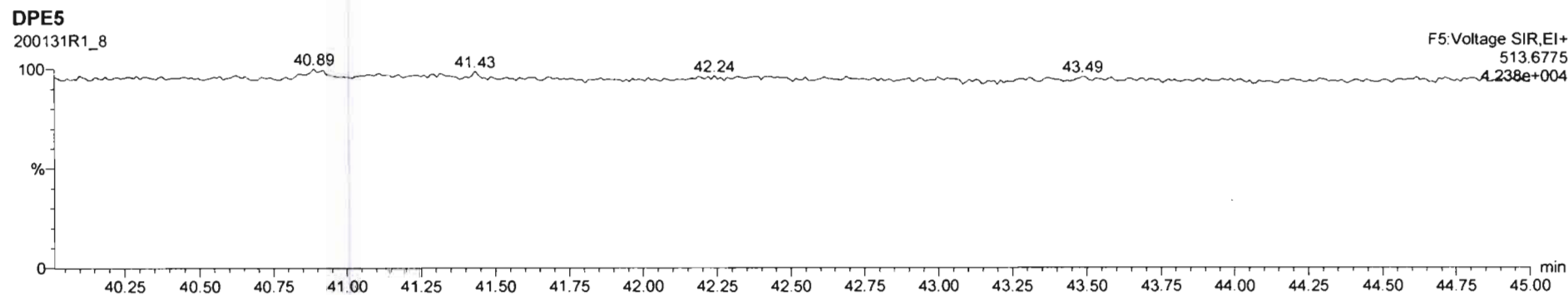
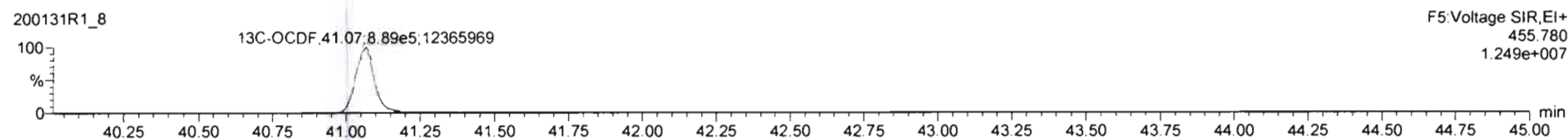
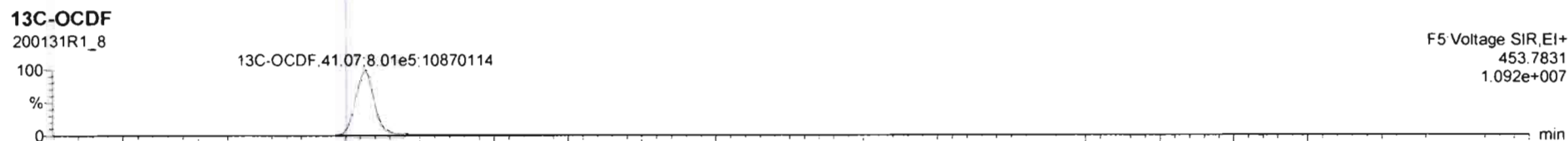
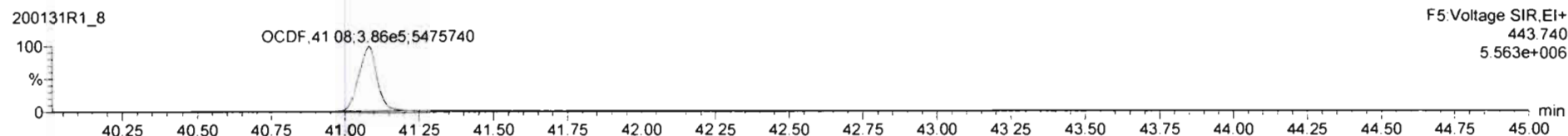
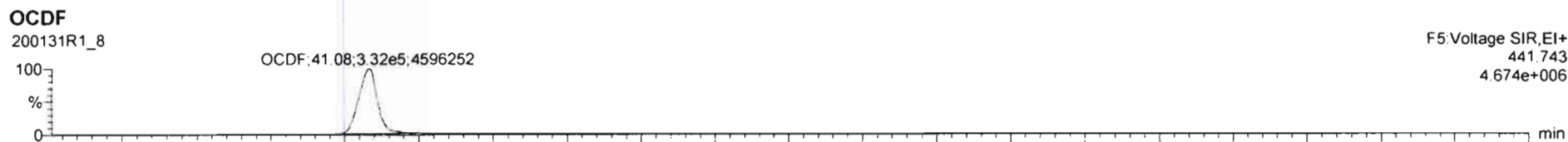
200131R1_8



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

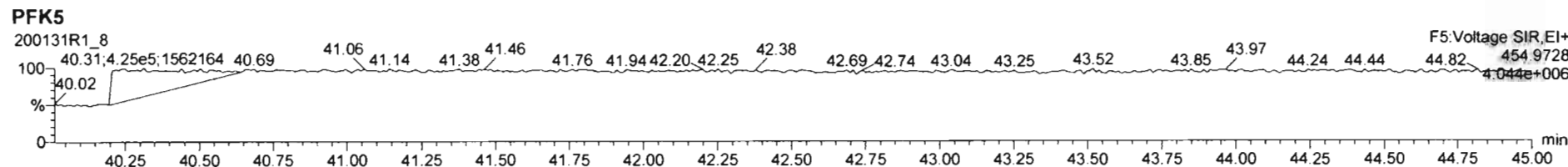
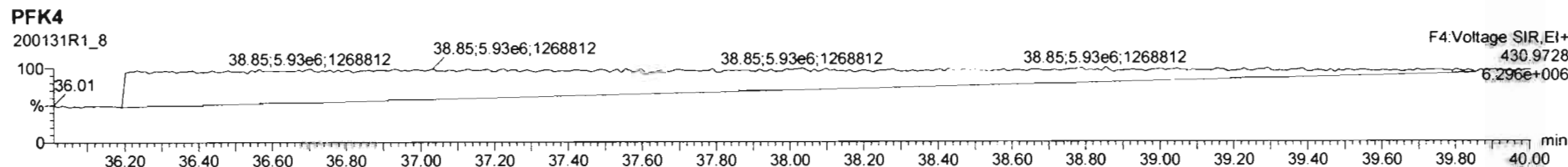
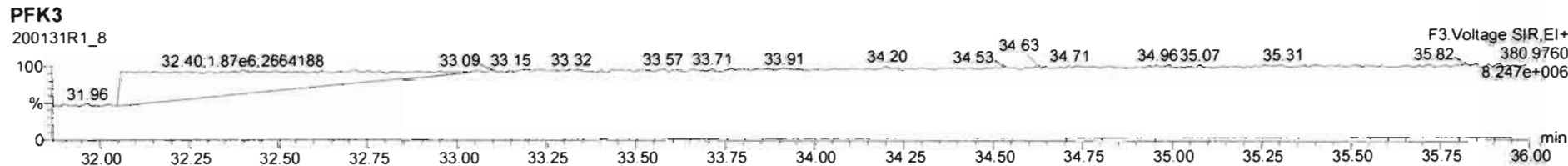
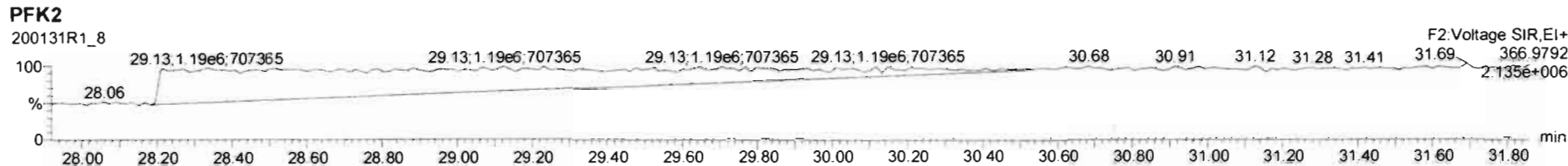
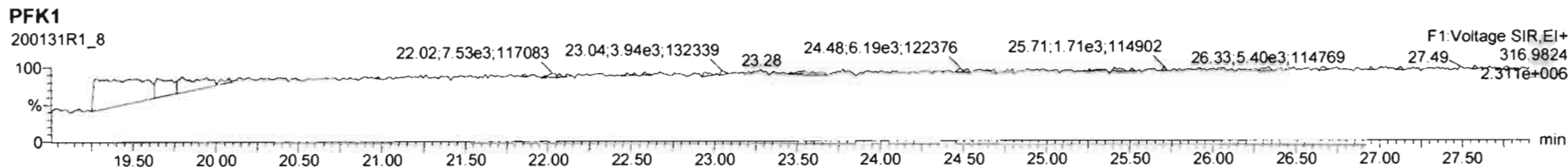


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

GRB 03/09/2020

C1 03/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 11:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

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

Response Factor: 0.983462

RRF SD: 0.0620764, Relative SD: 6.31202

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	200306R2_1	0.250	0.88	NO	25.83	1.001	2.55e3	1.02e6	0.255	1.8	1.00	MM
2	200306R2_2	0.500	0.79	NO	25.80	1.001	5.56e3	1.04e6	0.545	9.0	1.07	bb
3	200306R2_3	2.00	0.77	NO	25.81	1.001	2.04e4	9.83e5	2.11	5.3	1.04	bb
4	200306R2_4	10.0	0.80	NO	25.81	1.001	1.07e5	1.15e6	9.48	-5.2	0.933	db
5	200306R2_5	40.0	0.77	NO	25.80	1.001	4.79e5	1.30e6	37.6	-5.9	0.925	bb
6	200306R2_6	300	0.79	NO	25.80	1.001	3.75e6	1.34e6	285	-5.0	0.934	bb

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

Response Factor: 0.921241

RRF SD: 0.0620739, Relative SD: 6.73807

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	200306R2_1	1.25	0.68	NO	31.00	1.000	7.57e3	7.13e5	1.15	-7.8	0.849	MM
2	200306R2_2	2.50	0.65	NO	30.97	1.000	1.74e4	6.98e5	2.70	8.2	0.996	bb
3	200306R2_3	10.0	0.68	NO	30.99	1.000	6.63e4	6.63e5	10.8	8.5	0.999	bb
4	200306R2_4	50.0	0.63	NO	30.99	1.000	3.98e5	9.00e5	48.0	-4.0	0.884	bb
5	200306R2_5	200	0.63	NO	30.99	1.000	1.71e6	9.49e5	195	-2.4	0.899	bb
6	200306R2_6	1500	0.63	NO	30.99	1.000	1.46e7	1.08e6	1460	-2.3	0.900	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
 Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

Response Factor: 1.13254

RRF SD: 0.050207, Relative SD: 4.43315

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	200306R2_1	1.25	1.29	NO	34.40	1.001	7.33e3	5.37e5	1.21	-3.6	1.09	bd
2	200306R2_2	2.50	1.25	NO	34.37	1.001	1.58e4	5.23e5	2.66	6.4	1.21	bd
3	200306R2_3	10.0	1.25	NO	34.37	1.000	5.85e4	4.95e5	10.4	4.4	1.18	bd
4	200306R2_4	50.0	1.24	NO	34.38	1.001	3.69e5	6.79e5	48.0	-4.0	1.09	bd
5	200306R2_5	200	1.24	NO	34.37	1.000	1.50e6	6.81e5	194	-3.0	1.10	bd
6	200306R2_6	1500	1.24	NO	34.38	1.000	1.42e7	8.39e5	1500	-0.3	1.13	bd

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

Response Factor: 0.984449

RRF SD: 0.0570908, Relative SD: 5.79927

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	200306R2_1	1.25	1.21	NO	34.49	1.000	7.49e3	6.23e5	1.22	-2.3	0.961	MM
2	200306R2_2	2.50	1.23	NO	34.47	1.000	1.71e4	6.45e5	2.69	7.8	1.06	db
3	200306R2_3	10.0	1.24	NO	34.48	1.000	6.35e4	6.06e5	10.6	6.4	1.05	db
4	200306R2_4	50.0	1.26	NO	34.48	1.000	3.94e5	8.29e5	48.3	-3.4	0.951	db
5	200306R2_5	200	1.25	NO	34.47	1.000	1.68e6	8.67e5	197	-1.6	0.969	db
6	200306R2_6	1500	1.24	NO	34.49	1.001	1.45e7	1.05e6	1400	-6.8	0.917	db

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

Response Factor: 0.967395

RRF SD: 0.0672904, Relative SD: 6.95583

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	200306R2_1	1.25	1.19	NO	34.76	1.000	6.08e3	5.57e5	1.13	-9.9	0.872	MM
2	200306R2_2	2.50	1.24	NO	34.74	1.001	1.51e4	5.80e5	2.70	7.9	1.04	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	10.0	1.23	NO	34.74	1.000	5.71e4	5.46e5	10.8	8.1	1.05	bb
4	200306R2_4	50.0	1.23	NO	34.74	1.000	3.51e5	7.47e5	48.6	-2.9	0.940	bb
5	200306R2_5	200	1.25	NO	34.74	1.000	1.47e6	7.83e5	194	-2.8	0.940	bb
6	200306R2_6	1500	1.23	NO	34.75	1.000	1.34e7	9.31e5	1490	-0.5	0.963	bb

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

Response Factor: 1.00606

RRF SD: 0.0598777, Relative SD: 5.95172

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	200306R2_1	1.25	1.04	NO	38.23	1.000	4.50e3	3.74e5	1.19	-4.5	0.960	MM
2	200306R2_2	2.50	1.03	NO	38.17	1.000	1.17e4	4.34e5	2.69	7.6	1.08	bb
3	200306R2_3	10.0	1.02	NO	38.18	1.000	4.15e4	3.84e5	10.7	7.4	1.08	bb
4	200306R2_4	50.0	1.03	NO	38.21	1.000	2.63e5	5.52e5	47.4	-5.1	0.954	bb
5	200306R2_5	200	1.04	NO	38.21	1.001	1.14e6	5.89e5	192	-3.9	0.967	bb
6	200306R2_6	1500	1.03	NO	38.22	1.001	9.92e6	6.67e5	1480	-1.4	0.992	bb

Compound name: OCDD

Response Factor: 1.05145

RRF SD: 0.114587, Relative SD: 10.898

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	200306R2_1	2.50	0.84	NO	41.25	1.000	1.06e4	7.05e5	2.86	14.2	1.20	MM
2	200306R2_2	5.00	0.98	NO	41.22	1.000	2.24e4	7.62e5	5.60	12.0	1.18	MM
3	200306R2_3	20.0	0.87	NO	41.23	1.000	7.58e4	7.16e5	20.1	0.7	1.06	bb
4	200306R2_4	100	0.90	NO	41.23	1.000	4.62e5	9.75e5	90.2	-9.8	0.948	bb
5	200306R2_5	400	0.89	NO	41.22	1.000	2.22e6	1.17e6	360	-10.0	0.946	bb
6	200306R2_6	3000	0.89	NO	41.24	1.000	2.08e7	1.42e6	2790	-7.1	0.977	MM

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

Response Factor: 0.915401

RRF SD: 0.0583768, Relative SD: 6.37719

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	200306R2_1	0.250	0.84	NO	24.87	1.001	3.09e3	1.43e6	0.235	-5.9	0.861	MM
2	200306R2_2	0.500	0.78	NO	24.82	1.001	7.23e3	1.45e6	0.546	9.2	1.00	bb
3	200306R2_3	2.00	0.78	NO	24.82	1.001	2.69e4	1.38e6	2.14	6.8	0.978	bb
4	200306R2_4	10.0	0.77	NO	24.84	1.001	1.28e5	1.46e6	9.56	-4.4	0.875	bb
5	200306R2_5	40.0	0.77	NO	24.82	1.001	6.19e5	1.74e6	38.8	-3.1	0.887	bb
6	200306R2_6	300	0.77	NO	24.82	1.001	4.83e6	1.81e6	292	-2.7	0.891	bb

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

Response Factor: 0.959427

RRF SD: 0.0433152, Relative SD: 4.51469

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	200306R2_1	1.25	1.49	NO	29.68	1.000	1.28e4	1.13e6	1.18	-5.5	0.906	MM
2	200306R2_2	2.50	1.64	NO	29.63	1.000	2.70e4	1.07e6	2.63	5.3	1.01	bb
3	200306R2_3	10.0	1.54	NO	29.65	1.000	1.01e5	9.93e5	10.6	5.7	1.01	MM
4	200306R2_4	50.0	1.55	NO	29.66	1.001	6.19e5	1.30e6	49.4	-1.1	0.948	bb
5	200306R2_5	200	1.56	NO	29.65	1.000	2.60e6	1.38e6	196	-1.9	0.941	bb
6	200306R2_6	1500	1.53	NO	29.66	1.000	2.21e7	1.58e6	1460	-2.4	0.936	bb

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

Response Factor: 1.00349

RRF SD: 0.0546018, Relative SD: 5.44122

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	200306R2_1	1.25	1.61	NO	30.70	1.000	1.23e4	1.05e6	1.17	-6.4	0.940	MM
2	200306R2_2	2.50	1.54	NO	30.65	1.000	2.75e4	1.02e6	2.70	8.1	1.08	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
 Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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	200306R2_3	10.0	1.56	NO	30.67	1.000	1.02e5	9.68e5	10.5	5.1	1.05	bb
4	200306R2_4	50.0	1.58	NO	30.67	1.000	6.26e5	1.27e6	49.3	-1.4	0.990	bb
5	200306R2_5	200	1.54	NO	30.67	1.000	2.65e6	1.36e6	195	-2.6	0.978	bb
6	200306R2_6	1500	1.53	NO	30.68	1.000	2.24e7	1.53e6	1460	-2.8	0.975	bb

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

Response Factor: 1.03807
 RRF SD: 0.0538106, Relative SD: 5.18374
 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	200306R2_1	1.25	1.12	NO	33.54	1.001	8.84e3	7.10e5	1.20	-4.0	0.996	bd
2	200306R2_2	2.50	1.19	NO	33.51	1.000	1.92e4	6.91e5	2.68	7.2	1.11	bd
3	200306R2_3	10.0	1.26	NO	33.52	1.000	7.18e4	6.52e5	10.6	6.1	1.10	bd
4	200306R2_4	50.0	1.23	NO	33.52	1.000	4.56e5	8.98e5	48.9	-2.2	1.02	dd
5	200306R2_5	200	1.22	NO	33.52	1.001	1.87e6	9.40e5	192	-4.1	0.996	bd
6	200306R2_6	1500	1.22	NO	33.53	1.001	1.65e7	1.09e6	1460	-2.9	1.01	bd

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

Response Factor: 1.0126
 RRF SD: 0.0619783, Relative SD: 6.12071
 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	200306R2_1	1.25	1.20	NO	33.66	1.000	9.19e3	7.80e5	1.16	-6.9	0.943	db
2	200306R2_2	2.50	1.27	NO	33.63	1.000	2.08e4	7.71e5	2.66	6.4	1.08	db
3	200306R2_3	10.0	1.18	NO	33.64	1.000	7.95e4	7.22e5	10.9	8.7	1.10	db
4	200306R2_4	50.0	1.22	NO	33.64	1.000	4.93e5	1.01e6	48.1	-3.7	0.975	db
5	200306R2_5	200	1.22	NO	33.64	1.001	2.10e6	1.05e6	196	-1.8	0.994	db
6	200306R2_6	1500	1.22	NO	33.65	1.000	1.83e7	1.24e6	1460	-2.7	0.986	db

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
 Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

Response Factor: 1.092

RRF SD: 0.0522909, Relative SD: 4.78856

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	200306R2_1	1.25	1.20	NO	34.23	1.001	9.49e3	7.13e5	1.22	-2.5	1.07	bb
2	200306R2_2	2.50	1.18	NO	34.19	1.000	2.08e4	7.13e5	2.68	7.1	1.17	bb
3	200306R2_3	10.0	1.21	NO	34.21	1.001	7.81e4	6.81e5	10.5	5.1	1.15	bb
4	200306R2_4	50.0	1.21	NO	34.21	1.001	4.95e5	9.38e5	48.3	-3.4	1.05	bb
5	200306R2_5	200	1.22	NO	34.20	1.000	2.06e6	9.84e5	192	-3.9	1.05	bb
6	200306R2_6	1500	1.22	NO	34.21	1.000	1.82e7	1.14e6	1460	-2.4	1.07	bb

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

Response Factor: 1.02678

RRF SD: 0.0447492, Relative SD: 4.35823

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	200306R2_1	1.25	1.27	NO	35.11	1.001	7.40e3	5.96e5	1.21	-3.3	0.993	bb
2	200306R2_2	2.50	1.24	NO	35.07	1.000	1.61e4	6.11e5	2.57	2.9	1.06	bb
3	200306R2_3	10.0	1.24	NO	35.08	1.000	6.28e4	5.68e5	10.8	7.6	1.10	bd
4	200306R2_4	50.0	1.25	NO	35.08	1.000	3.95e5	7.83e5	49.1	-1.8	1.01	MM
5	200306R2_5	200	1.23	NO	35.08	1.001	1.63e6	8.17e5	195	-2.7	0.999	bb
6	200306R2_6	1500	1.23	NO	35.10	1.000	1.48e7	9.86e5	1460	-2.7	0.999	bb

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

Response Factor: 1.04827

RRF SD: 0.0494086, Relative SD: 4.71334

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	200306R2_1	1.25	1.07	NO	36.81	1.000	6.78e3	5.13e5	1.26	0.8	1.06	bb
2	200306R2_2	2.50	0.98	NO	36.78	1.000	1.55e4	5.54e5	2.67	6.7	1.12	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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	200306R2_3	10.0	1.01	NO	36.79	1.000	5.42e4	4.96e5	10.4	4.2	1.09	bb
4	200306R2_4	50.0	1.00	NO	36.79	1.000	3.53e5	7.08e5	47.5	-5.0	0.996	bb
5	200306R2_5	200	1.00	NO	36.79	1.000	1.46e6	7.21e5	193	-3.6	1.01	bb
6	200306R2_6	1500	1.01	NO	36.80	1.000	1.31e7	8.61e5	1450	-3.2	1.02	bb

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

Response Factor: 1.2099

RRF SD: 0.0633946, Relative SD: 5.23967

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	200306R2_1	1.25	0.94	NO	38.85	1.001	4.87e3	3.35e5	1.20	-3.8	1.16	bb
2	200306R2_2	2.50	0.98	NO	38.82	1.000	1.18e4	3.60e5	2.72	8.8	1.32	bb
3	200306R2_3	10.0	0.98	NO	38.82	1.000	4.25e4	3.38e5	10.4	4.1	1.26	bb
4	200306R2_4	50.0	1.00	NO	38.82	1.000	2.73e5	4.70e5	48.0	-4.0	1.16	bb
5	200306R2_5	200	1.01	NO	38.82	1.000	1.18e6	4.99e5	195	-2.3	1.18	bb
6	200306R2_6	1500	1.01	NO	38.83	1.000	1.06e7	6.02e5	1460	-2.8	1.18	bb

Compound name: OCDF

Response Factor: 0.946773

RRF SD: 0.0474682, Relative SD: 5.01368

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	200306R2_1	2.50	0.83	NO	41.43	1.000	9.98e3	8.40e5	2.51	0.4	0.950	MM
2	200306R2_2	5.00	0.93	NO	41.40	1.000	2.36e4	9.23e5	5.39	7.8	1.02	bb
3	200306R2_3	20.0	0.89	NO	41.40	1.000	8.67e4	8.82e5	20.8	3.9	0.983	bb
4	200306R2_4	100	0.88	NO	41.41	1.000	5.44e5	1.20e6	95.4	-4.6	0.904	bb
5	200306R2_5	400	0.88	NO	41.40	1.000	2.61e6	1.42e6	387	-3.2	0.917	bb
6	200306R2_6	3000	0.89	NO	41.42	1.000	2.37e7	1.75e6	2870	-4.3	0.906	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

Response Factor: 1.18423

RRF SD: 0.101442, Relative SD: 8.56612

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	200306R2_1	100	0.79	NO	25.80	1.028	1.02e6	7.81e5	110	10.3	1.31	MM
2	200306R2_2	100	0.78	NO	25.76	1.028	1.04e6	9.79e5	89.6	-10.4	1.06	bb
3	200306R2_3	100	0.79	NO	25.78	1.028	9.83e5	9.27e5	89.5	-10.5	1.06	bb
4	200306R2_4	100	0.78	NO	25.78	1.028	1.15e6	9.40e5	103	3.3	1.22	bb
5	200306R2_5	100	0.78	NO	25.76	1.028	1.30e6	1.07e6	102	2.0	1.21	bb
6	200306R2_6	100	0.79	NO	25.76	1.028	1.34e6	1.07e6	105	5.2	1.25	bb

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

Response Factor: 0.864397

RRF SD: 0.123368, Relative SD: 14.2722

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	200306R2_1	100	0.64	NO	30.99	1.235	7.13e5	7.81e5	106	5.7	0.914	bb
2	200306R2_2	100	0.63	NO	30.96	1.235	6.98e5	9.79e5	82.5	-17.5	0.713	bb
3	200306R2_3	100	0.64	NO	30.97	1.235	6.63e5	9.27e5	82.7	-17.3	0.715	bb
4	200306R2_4	100	0.62	NO	30.97	1.235	9.00e5	9.40e5	111	10.8	0.958	bb
5	200306R2_5	100	0.64	NO	30.97	1.236	9.49e5	1.07e6	102	2.3	0.884	bb
6	200306R2_6	100	0.63	NO	30.97	1.236	1.08e6	1.07e6	116	16.1	1.00	bb

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

Response Factor: 0.753912

RRF SD: 0.0956829, Relative SD: 12.6915

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	200306R2_1	100	1.25	NO	34.38	1.014	5.37e5	6.43e5	111	10.7	0.835	bd
2	200306R2_2	100	1.28	NO	34.35	1.014	5.23e5	7.96e5	87.2	-12.8	0.657	bd

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	100	1.28	NO	34.36	1.014	4.95e5	7.60e5	86.4	-13.6	0.652	bd
4	200306R2_4	100	1.27	NO	34.36	1.014	6.79e5	9.06e5	99.5	-0.5	0.750	bd
5	200306R2_5	100	1.26	NO	34.36	1.014	6.81e5	9.24e5	97.8	-2.2	0.738	bd
6	200306R2_6	100	1.28	NO	34.37	1.014	8.39e5	9.40e5	118	18.4	0.892	bd

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

Response Factor: 0.925405

RRF SD: 0.118798, Relative SD: 12.8375

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	200306R2_1	100	1.25	NO	34.49	1.017	6.23e5	6.43e5	105	4.6	0.968	db
2	200306R2_2	100	1.26	NO	34.46	1.017	6.45e5	7.96e5	87.5	-12.5	0.810	db
3	200306R2_3	100	1.25	NO	34.47	1.017	6.06e5	7.60e5	86.2	-13.8	0.797	db
4	200306R2_4	100	1.28	NO	34.47	1.017	8.29e5	9.06e5	98.9	-1.1	0.916	db
5	200306R2_5	100	1.28	NO	34.46	1.017	8.67e5	9.24e5	101	1.4	0.939	db
6	200306R2_6	100	1.27	NO	34.47	1.017	1.05e6	9.40e5	121	21.3	1.12	db

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

Response Factor: 0.829419

RRF SD: 0.100271, Relative SD: 12.0893

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	200306R2_1	100	1.30	NO	34.75	1.025	5.57e5	6.43e5	104	4.5	0.867	bd
2	200306R2_2	100	1.23	NO	34.72	1.025	5.80e5	7.96e5	87.8	-12.2	0.728	bb
3	200306R2_3	100	1.24	NO	34.73	1.025	5.46e5	7.60e5	86.6	-13.4	0.718	bb
4	200306R2_4	100	1.23	NO	34.73	1.025	7.47e5	9.06e5	99.4	-0.6	0.825	bb
5	200306R2_5	100	1.19	NO	34.73	1.025	7.83e5	9.24e5	102	2.3	0.848	bb
6	200306R2_6	100	1.25	NO	34.74	1.025	9.31e5	9.40e5	119	19.4	0.990	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
 Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

Response Factor: 0.598232

RRF SD: 0.0717306, Relative SD: 11.9904

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	200306R2_1	100	1.03	NO	38.21	1.127	3.74e5	6.43e5	97.3	-2.7	0.582	bb
2	200306R2_2	100	1.06	NO	38.17	1.127	4.34e5	7.96e5	91.1	-8.9	0.545	bd
3	200306R2_3	100	1.06	NO	38.17	1.126	3.84e5	7.60e5	84.5	-15.5	0.506	bb
4	200306R2_4	100	1.05	NO	38.19	1.127	5.52e5	9.06e5	102	1.9	0.610	bb
5	200306R2_5	100	1.11	NO	38.18	1.127	5.89e5	9.24e5	107	6.6	0.638	bd
6	200306R2_6	100	1.06	NO	38.19	1.127	6.67e5	9.40e5	119	18.6	0.709	bb

Compound name: 13C-OCDD

Response Factor: 0.571169

RRF SD: 0.108174, Relative SD: 18.9391

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	200306R2_1	200	0.90	NO	41.23	1.216	7.05e5	6.43e5	192	-4.0	0.548	bd
2	200306R2_2	200	0.90	NO	41.21	1.216	7.62e5	7.96e5	168	-16.2	0.479	bb
3	200306R2_3	200	0.94	NO	41.22	1.216	7.16e5	7.60e5	165	-17.5	0.471	bd
4	200306R2_4	200	0.85	NO	41.21	1.216	9.75e5	9.06e5	189	-5.7	0.538	bb
5	200306R2_5	200	0.89	NO	41.21	1.216	1.17e6	9.24e5	222	11.0	0.634	bd
6	200306R2_6	200	0.90	NO	41.23	1.217	1.42e6	9.40e5	265	32.5	0.757	bd

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

Response Factor: 1.08928

RRF SD: 0.0987678, Relative SD: 9.06725

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	200306R2_1	100	0.79	NO	24.84	0.990	1.43e6	1.19e6	111	11.0	1.21	bb
2	200306R2_2	100	0.79	NO	24.79	0.989	1.45e6	1.48e6	89.7	-10.3	0.977	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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	200306R2_3	100	0.77	NO	24.81	0.989	1.38e6	1.43e6	88.3	-11.7	0.962	bb
4	200306R2_4	100	0.78	NO	24.82	0.990	1.46e6	1.27e6	106	5.6	1.15	bb
5	200306R2_5	100	0.78	NO	24.81	0.990	1.74e6	1.56e6	103	2.7	1.12	bb
6	200306R2_6	100	0.78	NO	24.79	0.989	1.81e6	1.62e6	103	2.7	1.12	bb

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

Response Factor: 0.876347

RRF SD: 0.137914, Relative SD: 15.7373

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	200306R2_1	100	1.55	NO	29.66	1.182	1.13e6	1.19e6	109	8.6	0.952	bb
2	200306R2_2	100	1.60	NO	29.63	1.182	1.07e6	1.48e6	82.5	-17.5	0.723	bb
3	200306R2_3	100	1.58	NO	29.63	1.182	9.93e5	1.43e6	79.2	-20.8	0.694	bb
4	200306R2_4	100	1.60	NO	29.63	1.181	1.30e6	1.27e6	117	17.2	1.03	bb
5	200306R2_5	100	1.57	NO	29.63	1.182	1.38e6	1.56e6	101	1.2	0.887	bb
6	200306R2_6	100	1.57	NO	29.65	1.183	1.58e6	1.62e6	111	11.3	0.976	bb

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

Response Factor: 0.843553

RRF SD: 0.133299, Relative SD: 15.8021

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	200306R2_1	100	1.57	NO	30.68	1.223	1.05e6	1.19e6	105	4.8	0.884	db
2	200306R2_2	100	1.58	NO	30.64	1.222	1.02e6	1.48e6	81.4	-18.6	0.687	db
3	200306R2_3	100	1.58	NO	30.65	1.222	9.68e5	1.43e6	80.2	-19.8	0.677	db
4	200306R2_4	100	1.60	NO	30.65	1.222	1.27e6	1.27e6	118	18.2	0.997	db
5	200306R2_5	100	1.58	NO	30.65	1.223	1.36e6	1.56e6	103	3.2	0.870	db
6	200306R2_6	100	1.60	NO	30.67	1.224	1.53e6	1.62e6	112	12.2	0.947	db

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

Response Factor: 1.00027

RRF SD: 0.122541, Relative SD: 12.2508

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	200306R2_1	100	0.52	NO	33.52	0.988	7.10e5	6.43e5	110	10.3	1.10	bd
2	200306R2_2	100	0.51	NO	33.50	0.989	6.91e5	7.96e5	86.8	-13.2	0.869	bd
3	200306R2_3	100	0.52	NO	33.51	0.989	6.52e5	7.60e5	85.8	-14.2	0.858	bd
4	200306R2_4	100	0.51	NO	33.51	0.989	8.98e5	9.06e5	99.1	-0.9	0.992	bd
5	200306R2_5	100	0.52	NO	33.50	0.989	9.40e5	9.24e5	102	1.7	1.02	bd
6	200306R2_6	100	0.52	NO	33.51	0.989	1.09e6	9.40e5	116	16.3	1.16	bd

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

Response Factor: 1.1178

RRF SD: 0.141321, Relative SD: 12.6428

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	200306R2_1	100	0.51	NO	33.65	0.992	7.80e5	6.43e5	108	8.5	1.21	db
2	200306R2_2	100	0.51	NO	33.62	0.992	7.71e5	7.96e5	86.6	-13.4	0.969	db
3	200306R2_3	100	0.53	NO	33.63	0.992	7.22e5	7.60e5	85.0	-15.0	0.951	db
4	200306R2_4	100	0.52	NO	33.63	0.992	1.01e6	9.06e5	99.9	-0.1	1.12	db
5	200306R2_5	100	0.53	NO	33.61	0.992	1.05e6	9.24e5	102	2.1	1.14	db
6	200306R2_6	100	0.52	NO	33.64	0.993	1.24e6	9.40e5	118	17.9	1.32	db

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

Response Factor: 1.03533

RRF SD: 0.12301, Relative SD: 11.8812

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	200306R2_1	100	0.52	NO	34.21	1.009	7.13e5	6.43e5	107	7.1	1.11	bb
2	200306R2_2	100	0.51	NO	34.18	1.009	7.13e5	7.96e5	86.5	-13.5	0.896	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
 Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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	200306R2_3	100	0.52	NO	34.19	1.009	6.81e5	7.60e5	86.6	-13.4	0.896	bb
4	200306R2_4	100	0.53	NO	34.19	1.009	9.38e5	9.06e5	100	0.1	1.04	MM
5	200306R2_5	100	0.52	NO	34.19	1.009	9.84e5	9.24e5	103	2.9	1.07	bb
6	200306R2_6	100	0.52	NO	34.20	1.009	1.14e6	9.40e5	117	16.9	1.21	bb

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

Response Factor: 0.873112

RRF SD: 0.110234, Relative SD: 12.6254

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	200306R2_1	100	0.51	NO	35.08	1.035	5.96e5	6.43e5	106	6.1	0.926	bb
2	200306R2_2	100	0.51	NO	35.06	1.035	6.11e5	7.96e5	87.9	-12.1	0.768	bb
3	200306R2_3	100	0.52	NO	35.07	1.035	5.68e5	7.60e5	85.6	-14.4	0.747	bb
4	200306R2_4	100	0.52	NO	35.07	1.035	7.83e5	9.06e5	99.0	-1.0	0.864	bb
5	200306R2_5	100	0.51	NO	35.06	1.035	8.17e5	9.24e5	101	1.3	0.884	bb
6	200306R2_6	100	0.53	NO	35.08	1.035	9.86e5	9.40e5	120	20.1	1.05	bb

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

Response Factor: 0.770799

RRF SD: 0.0912069, Relative SD: 11.8328

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	200306R2_1	100	0.44	NO	36.80	1.085	5.13e5	6.43e5	104	3.5	0.798	bb
2	200306R2_2	100	0.46	NO	36.77	1.085	5.54e5	7.96e5	90.3	-9.7	0.696	bb
3	200306R2_3	100	0.45	NO	36.78	1.085	4.96e5	7.60e5	84.6	-15.4	0.652	bb
4	200306R2_4	100	0.46	NO	36.78	1.085	7.08e5	9.06e5	101	1.4	0.782	bd
5	200306R2_5	100	0.45	NO	36.78	1.086	7.21e5	9.24e5	101	1.3	0.781	bb
6	200306R2_6	100	0.45	NO	36.79	1.086	8.61e5	9.40e5	119	18.8	0.916	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.519283

RRF SD: 0.0710328, Relative SD: 13.679

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	200306R2_1	100	0.45	NO	38.83	1.145	3.35e5	6.43e5	100	0.2	0.521	bd
2	200306R2_2	100	0.45	NO	38.80	1.145	3.60e5	7.96e5	87.0	-13.0	0.452	bd
3	200306R2_3	100	0.44	NO	38.81	1.145	3.38e5	7.60e5	85.6	-14.4	0.444	bd
4	200306R2_4	100	0.45	NO	38.81	1.145	4.70e5	9.06e5	99.9	-0.1	0.519	bb
5	200306R2_5	100	0.44	NO	38.81	1.145	4.99e5	9.24e5	104	3.9	0.540	bb
6	200306R2_6	100	0.45	NO	38.82	1.145	6.02e5	9.40e5	123	23.3	0.640	bb

Compound name: 13C-OCDF

Response Factor: 0.696311

RRF SD: 0.133796, Relative SD: 19.215

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	200306R2_1	200	0.88	NO	41.42	1.221	8.40e5	6.43e5	188	-6.2	0.653	bb
2	200306R2_2	200	0.90	NO	41.38	1.221	9.23e5	7.96e5	167	-16.7	0.580	bb
3	200306R2_3	200	0.86	NO	41.39	1.221	8.82e5	7.60e5	167	-16.6	0.581	bb
4	200306R2_4	200	0.89	NO	41.40	1.222	1.20e6	9.06e5	191	-4.6	0.664	bb
5	200306R2_5	200	0.89	NO	41.39	1.222	1.42e6	9.24e5	221	10.7	0.771	bb
6	200306R2_6	200	0.89	NO	41.41	1.222	1.75e6	9.40e5	267	33.4	0.929	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.17455

RRF SD: 0.0840795, Relative SD: 7.15847

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	200306R2_1	0.250			25.84	1.030	2.53e3	7.81e5	0.276	10.3	1.30	bb
2	200306R2_2	0.500			25.78	1.029	5.58e3	9.79e5	0.486	-2.9	1.14	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 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	200306R2_3	2.00			25.80	1.029	1.94e4	9.27e5	1.78	-11.1	1.04	bb
4	200306R2_4	10.0			25.80	1.029	1.11e5	9.40e5	10.1	0.8	1.18	bb
5	200306R2_5	40.0			25.80	1.029	4.97e5	1.07e6	39.5	-1.4	1.16	bb
6	200306R2_6	200			25.80	1.029	2.63e6	1.07e6	208	4.2	1.22	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.81	NO	25.09	1.000	7.81e5	7.81e5	100	0.0	1.00	bb
2	200306R2_2	100	0.80	NO	25.06	1.000	9.79e5	9.79e5	100	0.0	1.00	bb
3	200306R2_3	100	0.80	NO	25.08	1.000	9.27e5	9.27e5	100	0.0	1.00	bb
4	200306R2_4	100	0.78	NO	25.08	1.000	9.40e5	9.40e5	100	0.0	1.00	bb
5	200306R2_5	100	0.81	NO	25.06	1.000	1.07e6	1.07e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	25.06	1.000	1.07e6	1.07e6	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	200306R2_1	100	0.80	NO	23.24	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
2	200306R2_2	100	0.79	NO	23.21	1.000	1.48e6	1.48e6	100	0.0	1.00	bb
3	200306R2_3	100	0.81	NO	23.21	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
4	200306R2_4	100	0.79	NO	23.22	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
5	200306R2_5	100	0.79	NO	23.21	1.000	1.56e6	1.56e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	23.19	1.000	1.62e6	1.62e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:33:03 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	200306R2_1	100	0.51	NO	33.91	1.000	6.43e5	6.43e5	100	0.0	1.00	bb
2	200306R2_2	100	0.52	NO	33.88	1.000	7.96e5	7.96e5	100	0.0	1.00	bb
3	200306R2_3	100	0.51	NO	33.89	1.000	7.60e5	7.60e5	100	0.0	1.00	bb
4	200306R2_4	100	0.52	NO	33.89	1.000	9.06e5	9.06e5	100	0.0	1.00	bb
5	200306R2_5	100	0.52	NO	33.88	1.000	9.24e5	9.24e5	100	0.0	1.00	bb
6	200306R2_6	100	0.52	NO	33.89	1.000	9.40e5	9.40e5	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:43:03 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:45:55 Pacific Daylight Time

Method: U:\VG12.PROMethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

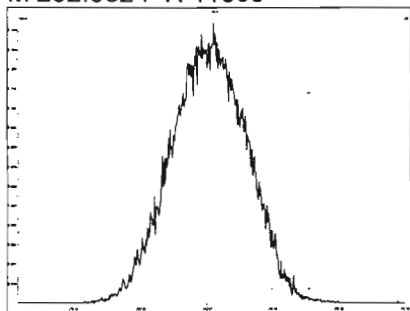
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200306R2_1	ST200306R2_1 1613 CS0 19L2302	06-Mar-20	13:08:38
2	200306R2_2	ST200306R2_2 1613 CS1 19L2303	06-Mar-20	13:58:25
3	200306R2_3	ST200306R2_3 1613 CS2 19L2304	06-Mar-20	14:44:37
4	200306R2_4	ST200306R2_4 1613 CS3 19L2305	06-Mar-20	15:32:12
5	200306R2_5	ST200306R2_5 1613 CS4 19L2306	06-Mar-20	16:19:37
6	200306R2_6	ST200306R2_6 1613 CS5 19L2307	06-Mar-20	17:07:03
7	200306R2_7	SOLVENT BLANK	06-Mar-20	17:56:11
8	200306R2_8	SS200306R2_1 1613 SSS 19L2308	06-Mar-20	18:42:29
9	200306R2_9	SOLVENT BLANK	06-Mar-20	19:38:48
10	200306R2_10	2000406-09 PDI-049SC-A-04-05-191015 16.98	06-Mar-20	20:25:03
11	200306R2_11	2000406-10 PDI-049SC-A-05-06-191015 16.09	06-Mar-20	21:12:36
12	200306R2_12	2000406-11 PDI-049SC-A-06-07-191015 13.96	06-Mar-20	22:00:09
13	200306R2_13	2000406-12 PDI-049SC-A-07-08-191015 12.78	06-Mar-20	22:47:33
14	200306R2_14	2000406-13 PDI-059SC-A-11-12-191016 13.47	06-Mar-20	23:35:07
15	200306R2_15	2000406-14 PDI-084SC-A-03-04-191002 18.94	07-Mar-20	00:22:31
16	200306R2_16	2000406-15 PDI-084SC-A-04-05-191002 17.76	07-Mar-20	01:09:56

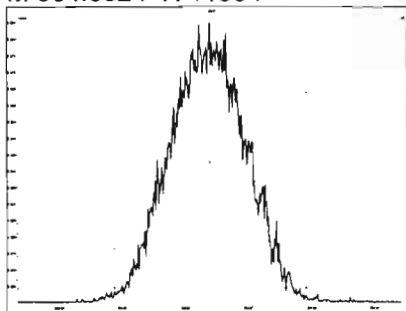
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:05:44 Pacific Standard Time

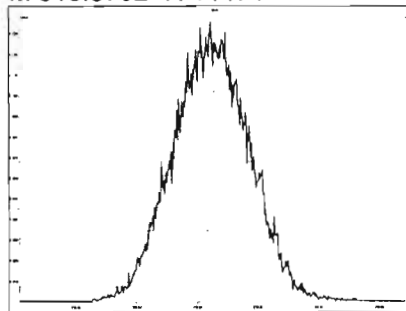
M 292.9824 R 11365



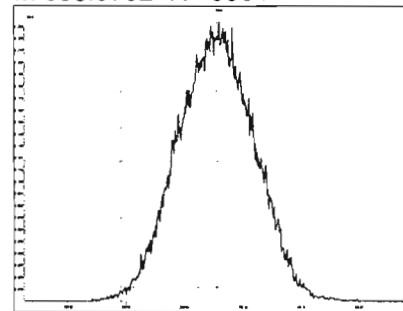
M 304.9824 R 11904



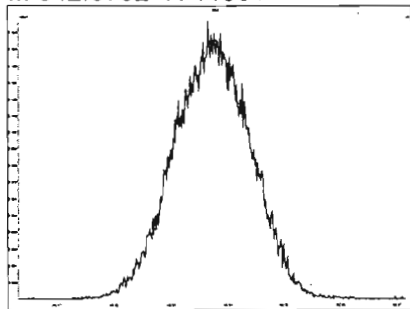
M 318.9792 R 11471



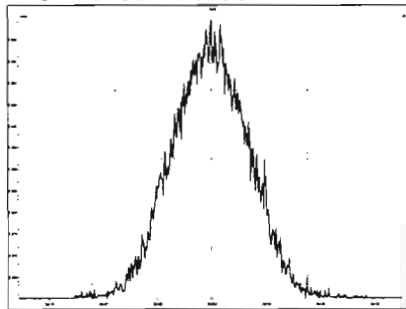
M 330.9792 R 10961



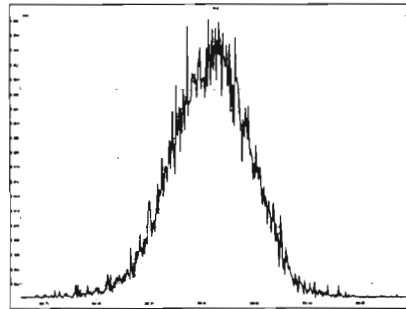
M 342.9792 R 11061



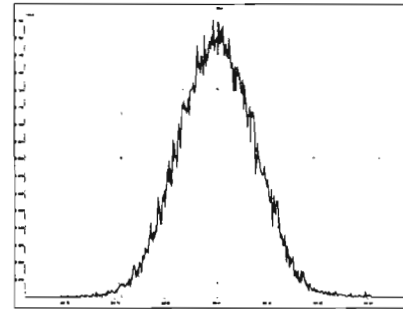
M 354.9792 R 11365



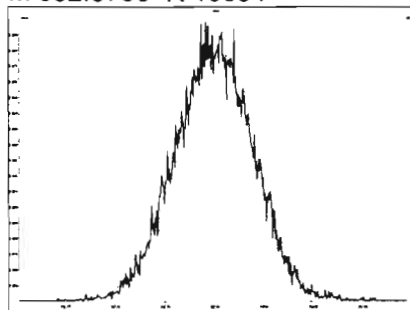
M 366.9792 R 10460



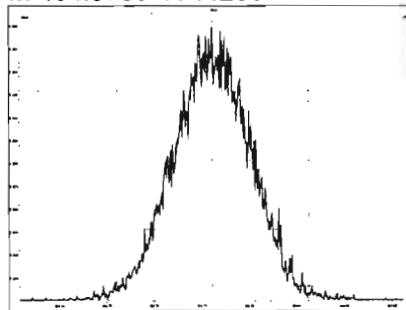
M 380.9760 R 11016



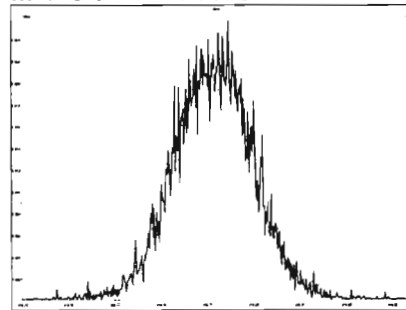
M 392.9760 R 10594



M 404.9760 R 11260



M 416.9760 R 11465



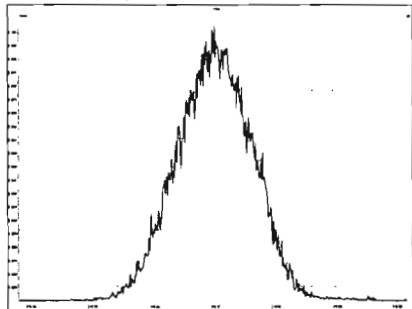
Experiment Calibration Report

MassLynx 4.1 SCN815

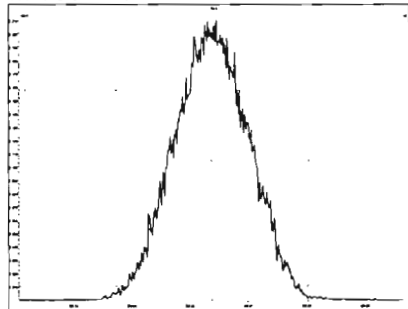
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:06:28 Pacific Standard Time

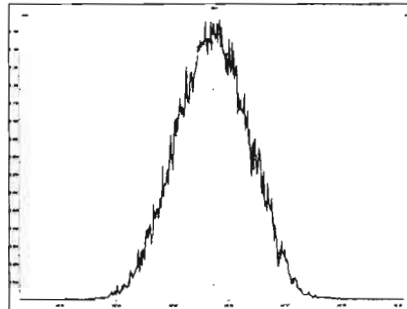
M 318.9792 R 11796



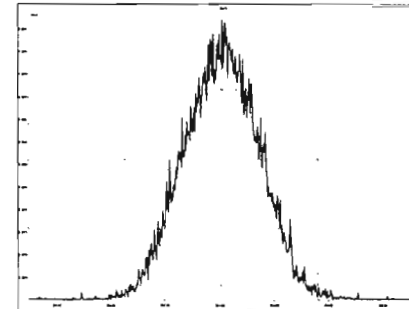
M 330.9792 R 11522



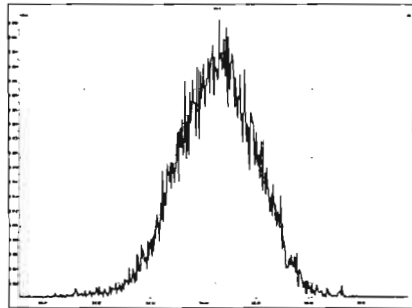
M 342.9792 R 11363



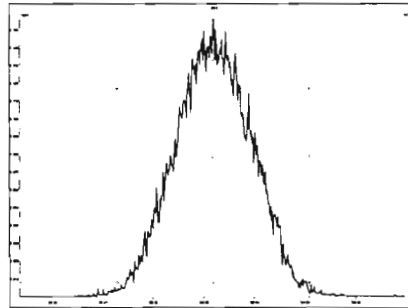
M 354.9792 R 11413



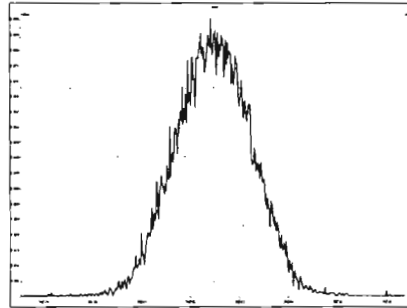
M 366.9792 R 10730



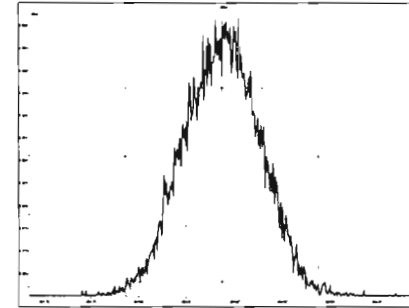
M 380.9760 R 11159



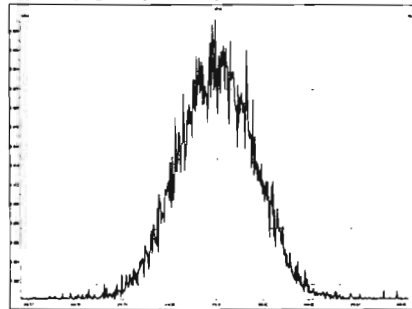
M 392.9760 R 11575



M 404.9760 R 11061



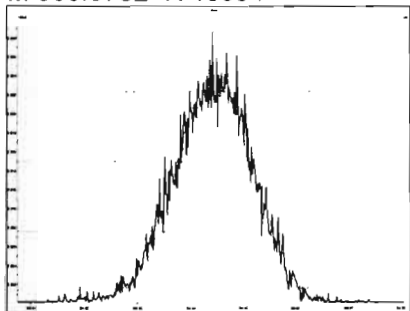
M 416.9760 R 10728



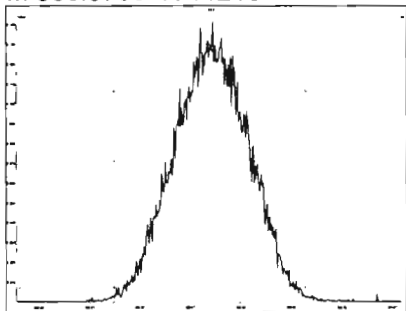
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:07:06 Pacific Standard Time

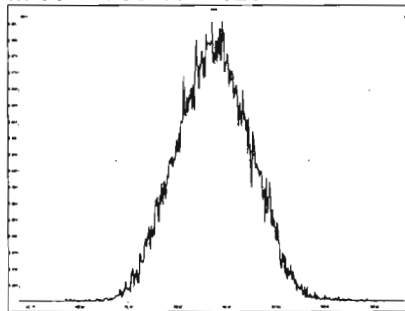
M 366.9792 R 10504



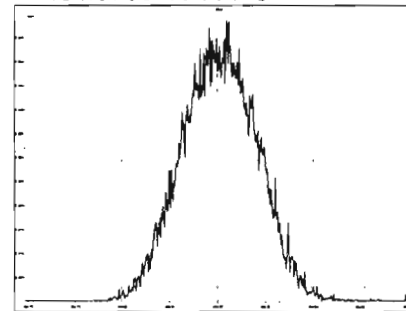
M 380.9760 R 11210



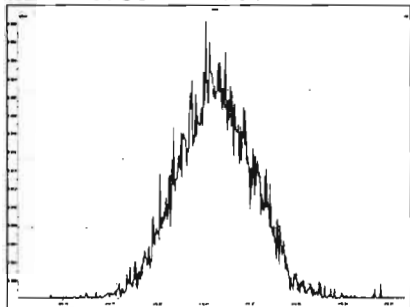
M 392.9760 R 11629



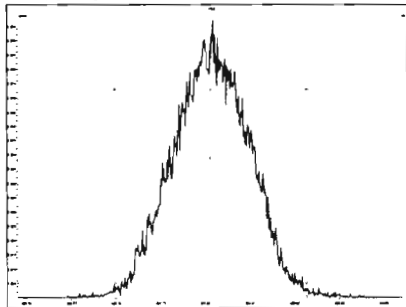
M 404.9760 R 11415



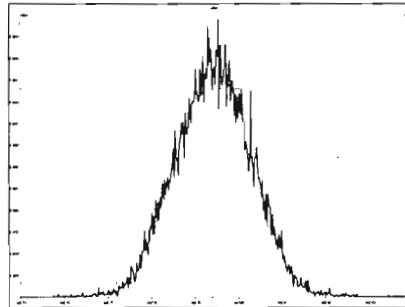
M 416.9760 R 11795



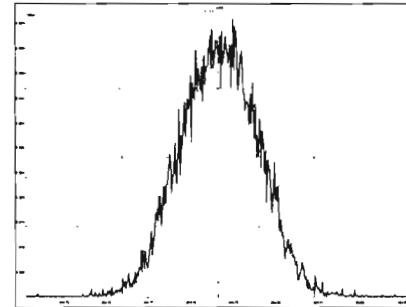
M 430.9728 R 11108



M 442.9728 R 11415



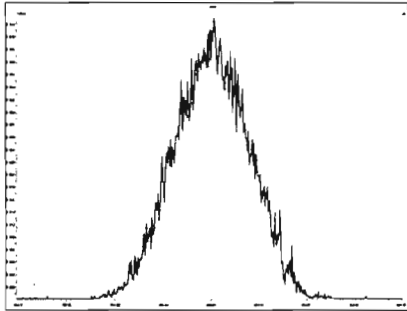
M 454.9728 R 11063



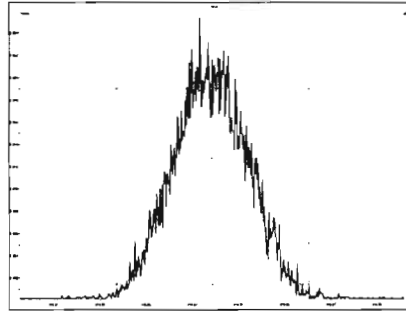
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:07:43 Pacific Standard Time

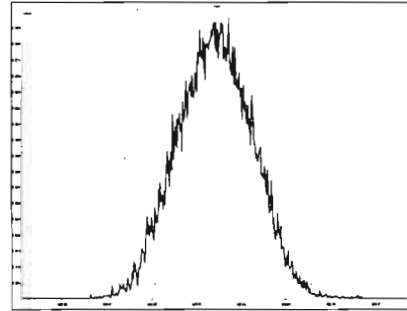
M 404.9760 R 11211



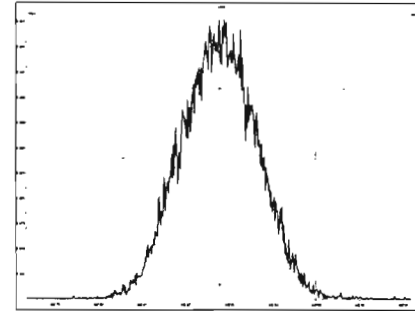
M 416.9760 R 10964



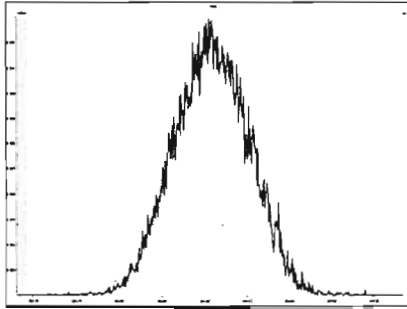
M 430.9728 R 11263



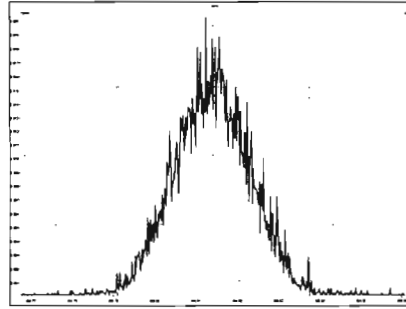
M 442.9728 R 11211



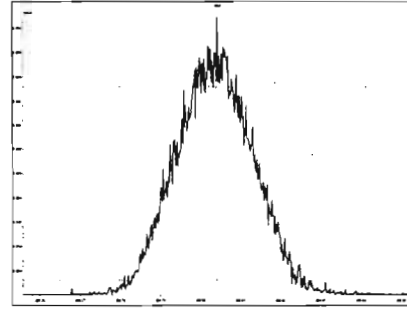
M 454.9728 R 11576



M 466.9728 R 11313



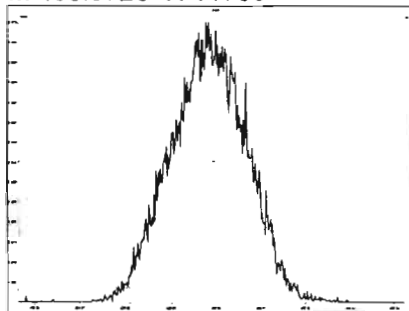
M 480.9696 R 11904



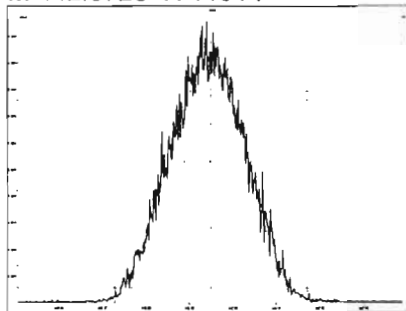
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:08:16 Pacific Standard Time

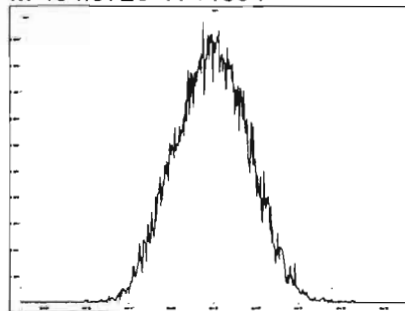
M 430.9728 R 11736



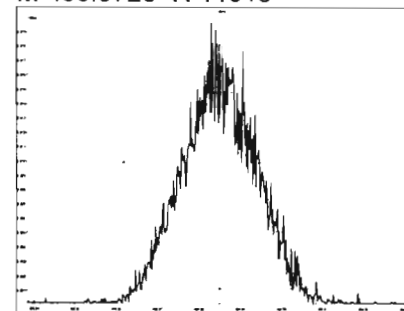
M 442.9728 R 11314



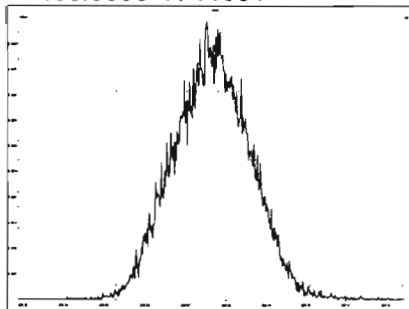
M 454.9728 R 11364



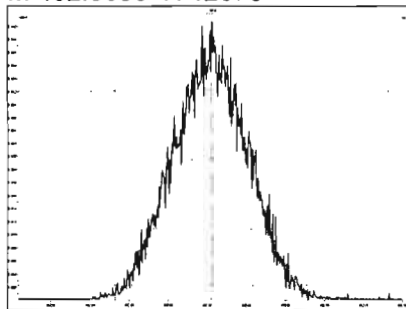
M 466.9728 R 11015



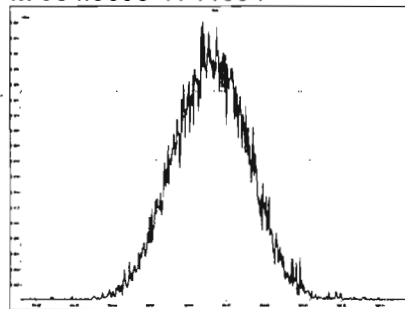
M 480.9696 R 11361



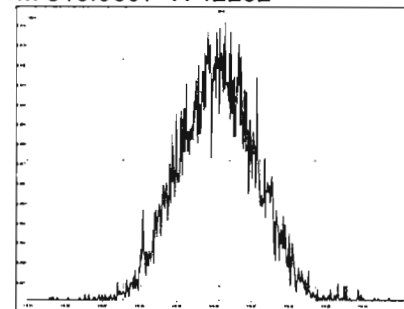
M 492.9696 R 12376



M 504.9696 R 11064



M 516.9697 R 12252



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:48:00 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:48:29 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.53
2	2 1,2,8,9-TCDD (Last)	26.81
3	3 1,2,4,7,9-PeCDD (First)	28.70
4	4 1,2,3,8,9-PeCDD (Last)	31.38
5	5 1,2,4,6,7,9-HxCDD (First)	32.90
6	6 1,2,3,7,8,9-HxCDD (Last)	34.74
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.21
9	9 1,3,6,8-TCDF (First)	19.52
10	10 1,2,8,9-TCDF (Last)	26.96
11	11 1,3,4,6,8-PeCDF (First)	26.93
12	12 1,2,3,8,9-PeCDF (Last)	31.63
13	13 1,2,3,4,6,8-HxCDF (First)	32.34
14	14 1,2,3,7,8,9-HxCDF (Last)	35.08
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.79
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.82

Dataset: Untitled

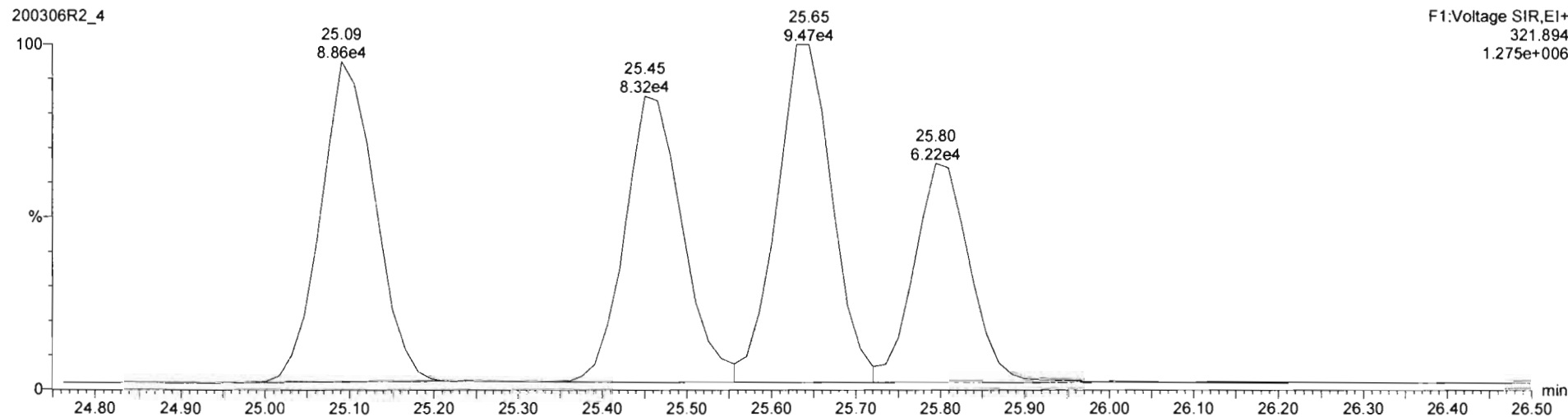
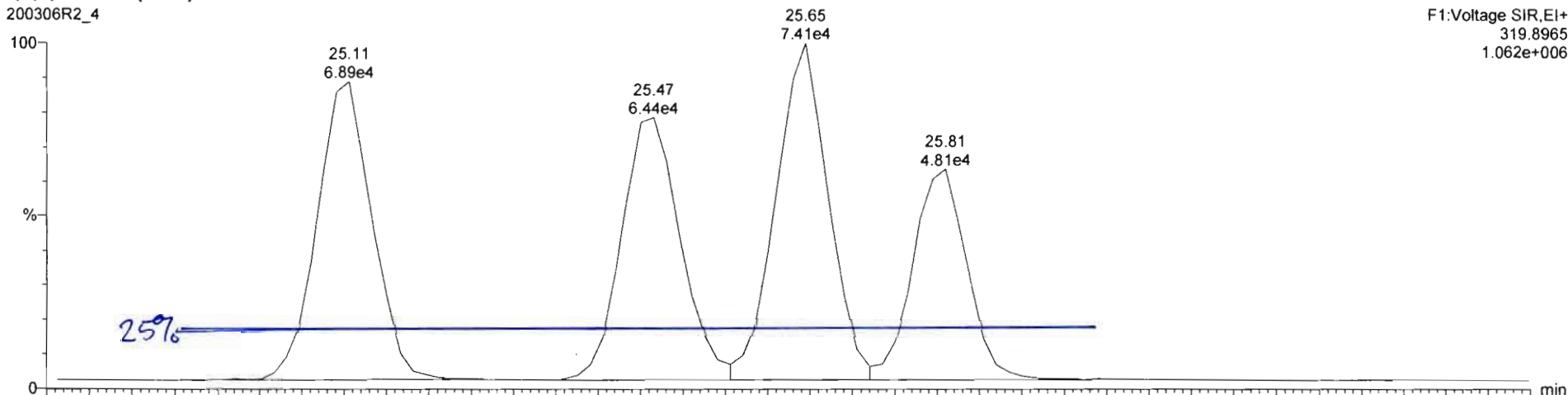
Last Altered: Monday, March 09, 2020 08:48:00 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:48:29 Pacific Daylight Time

GRB 03/09/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200306R2_4



Dataset: Untitled

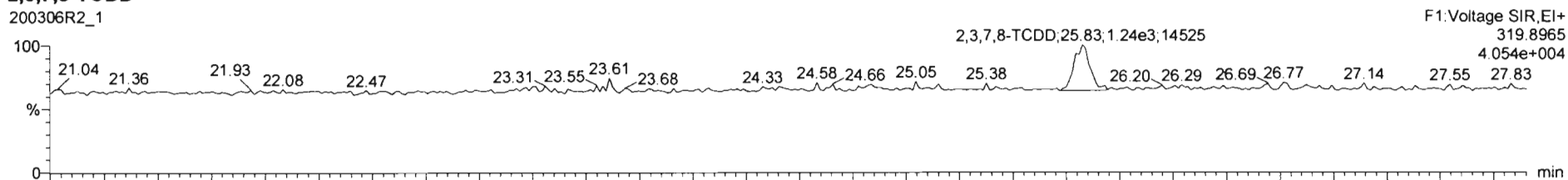
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

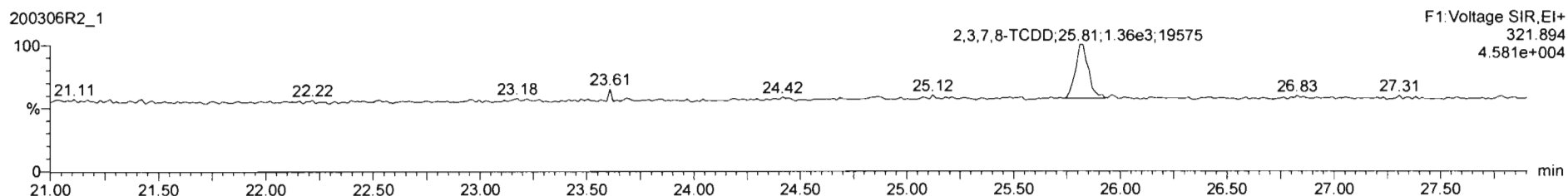
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200306R2_1

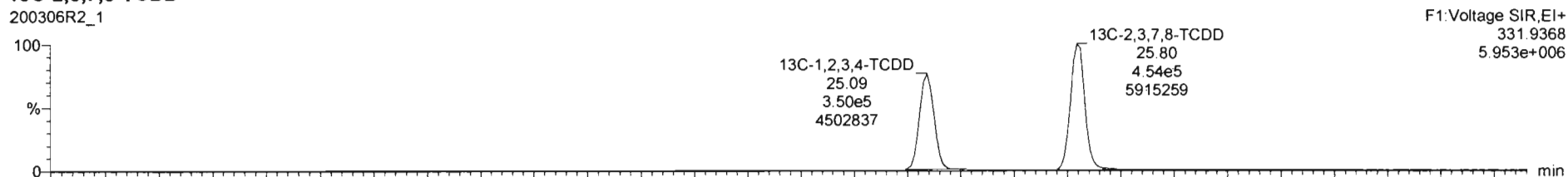


200306R2_1

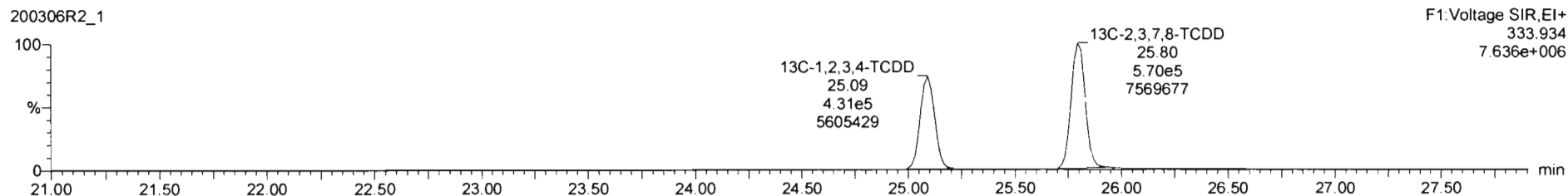


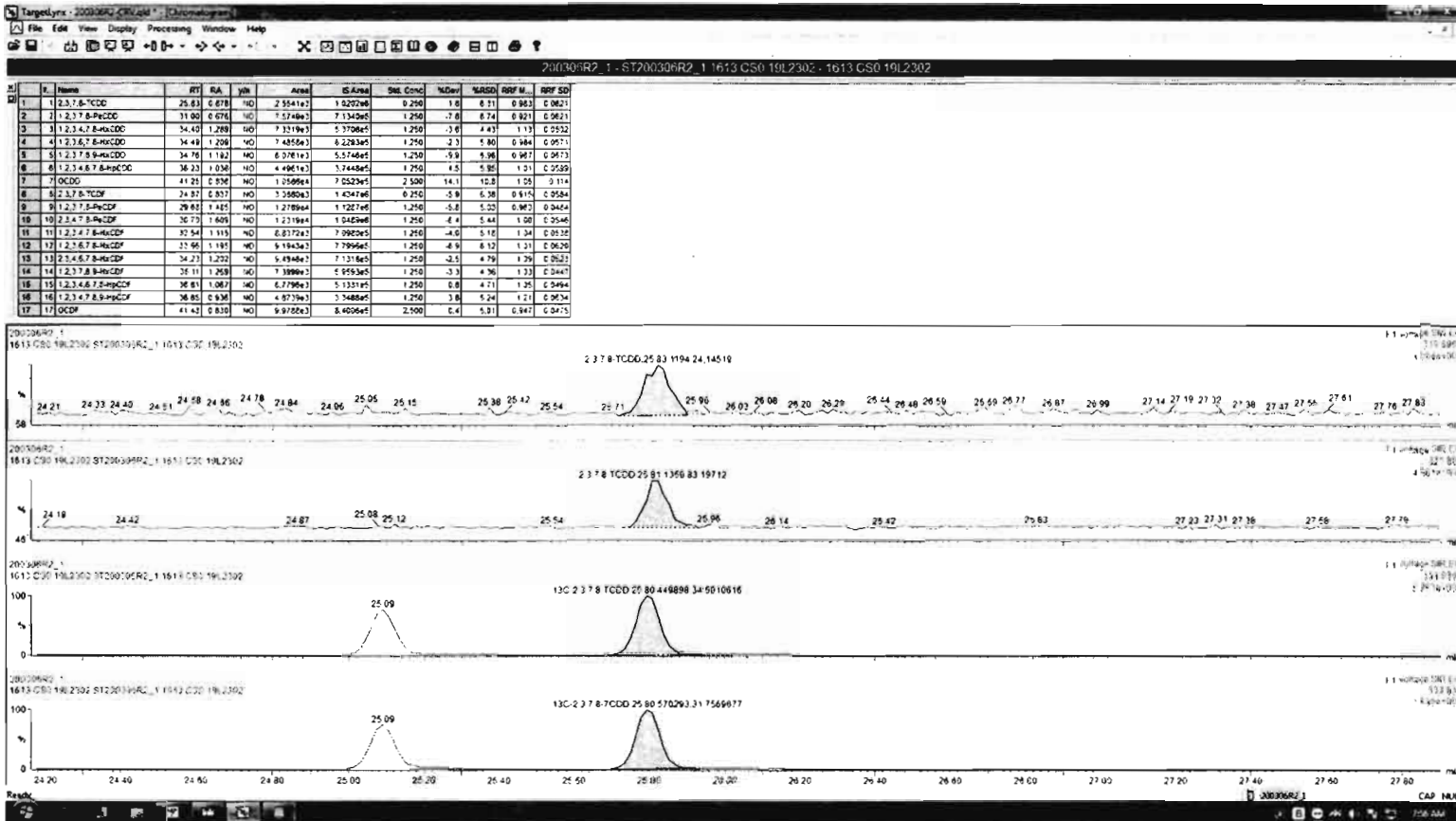
13C-2,3,7,8-TCDD

200306R2_1



200306R2_1





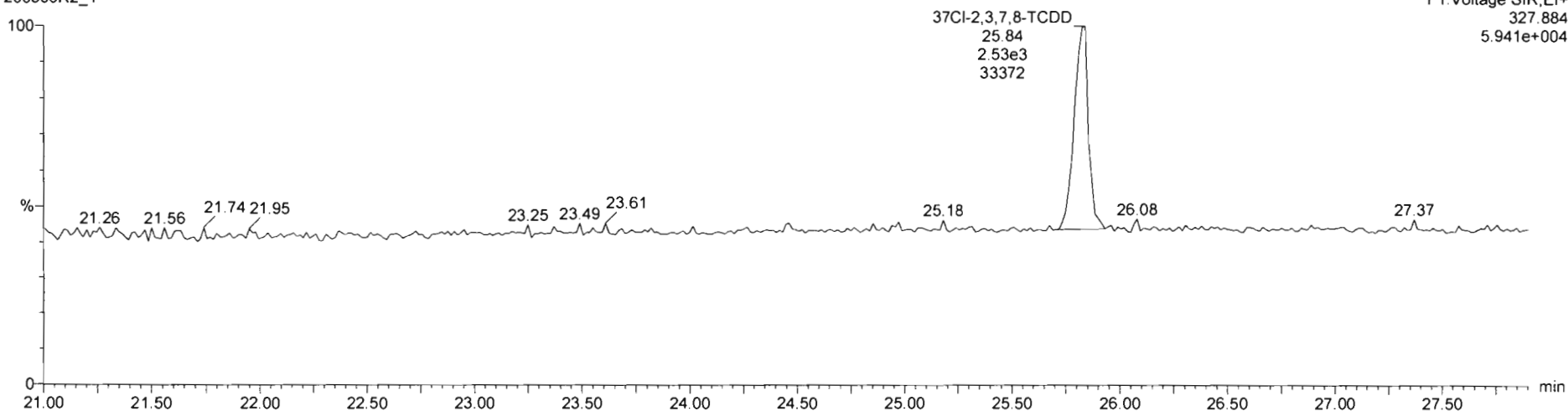
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

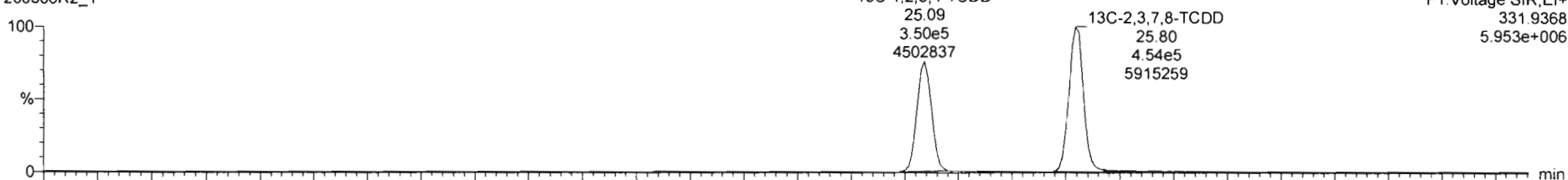
37Cl-2,3,7,8-TCDD

200306R2_1

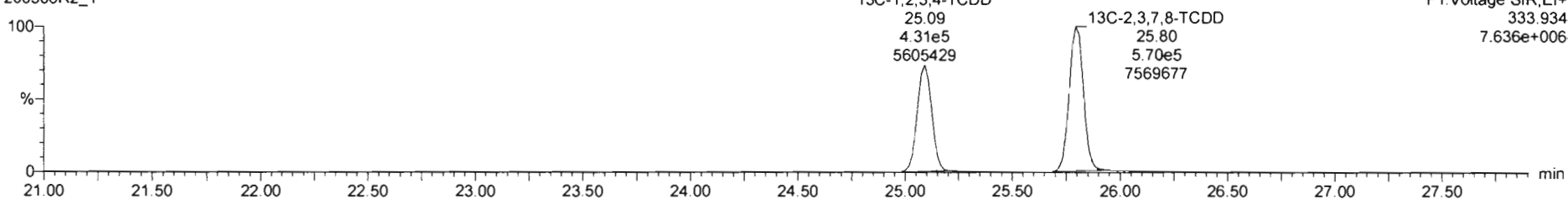


13C-1,2,3,4-TCDD

200306R2_1



200306R2_1



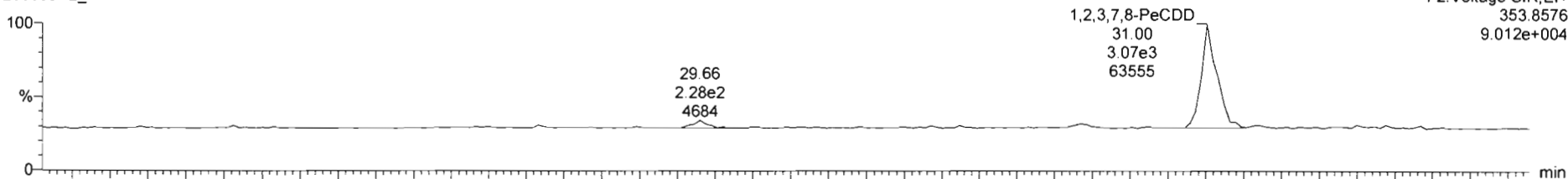
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

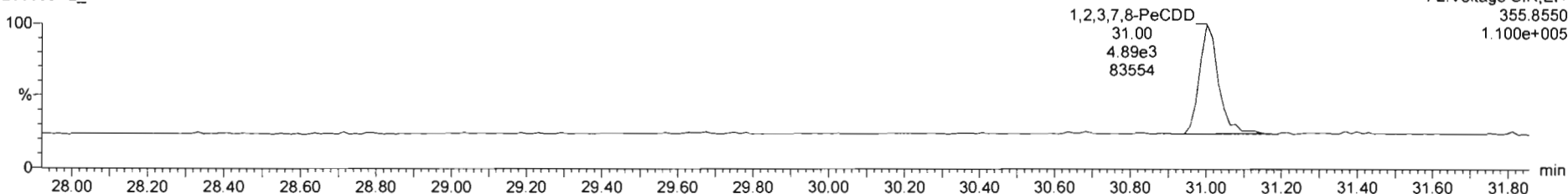
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200306R2_1



200306R2_1

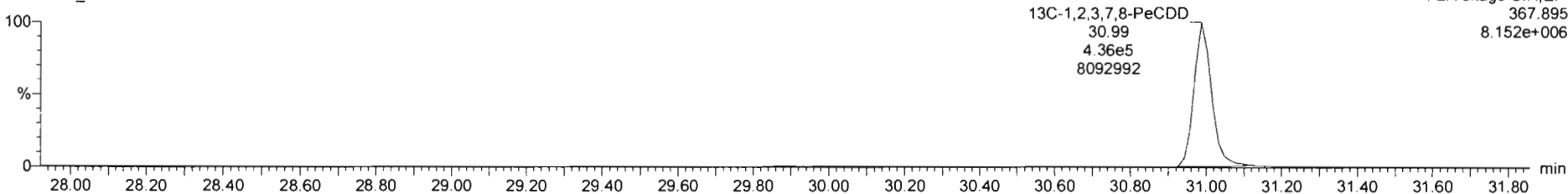


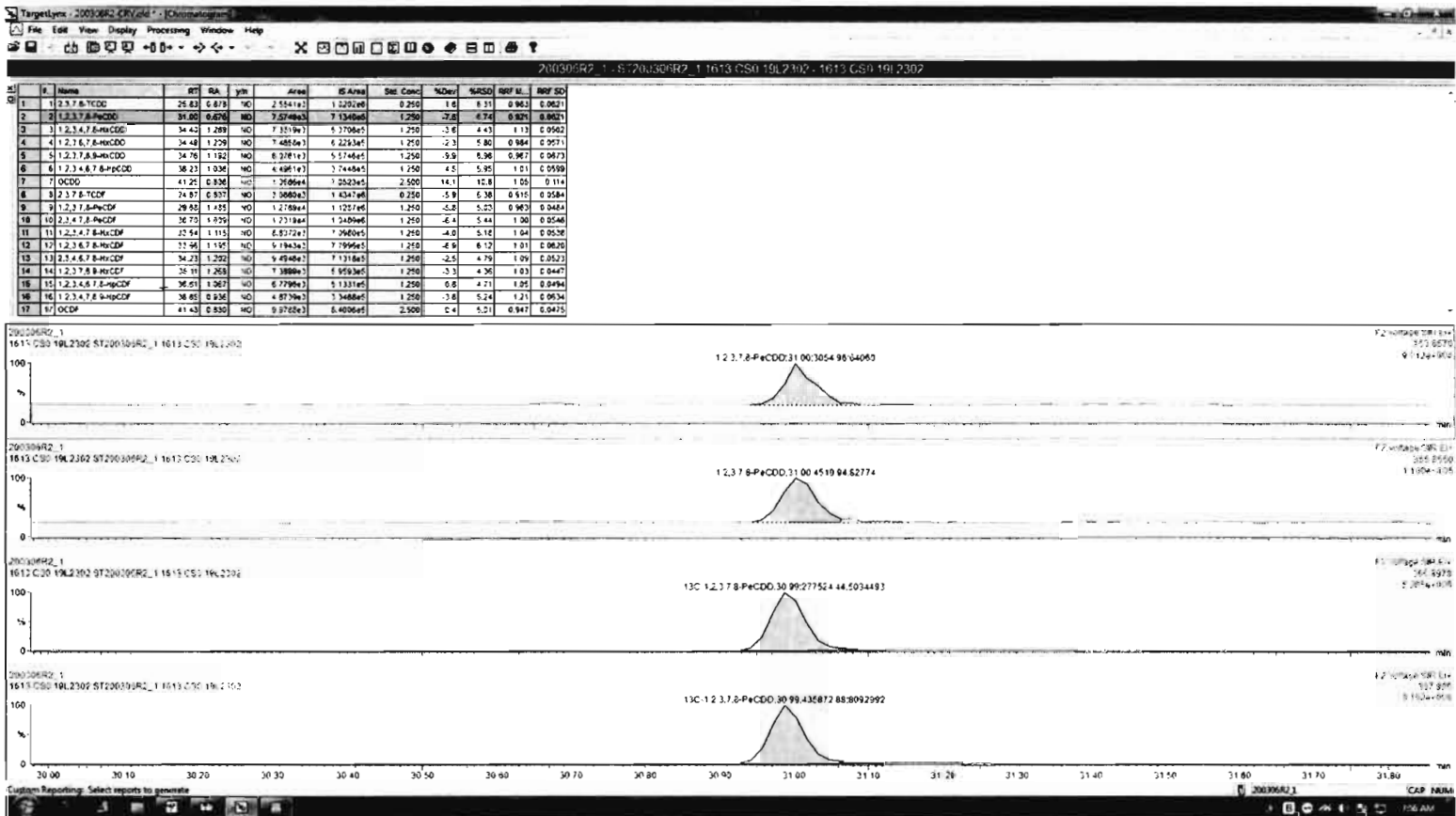
13C-1,2,3,7,8-PeCDD

200306R2_1



200306R2_1





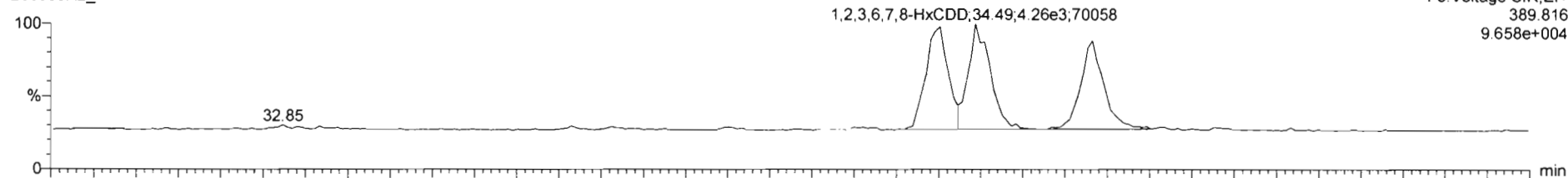
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

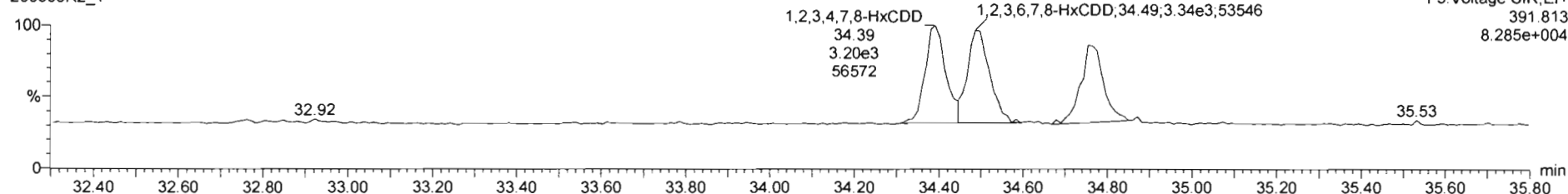
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200306R2_1

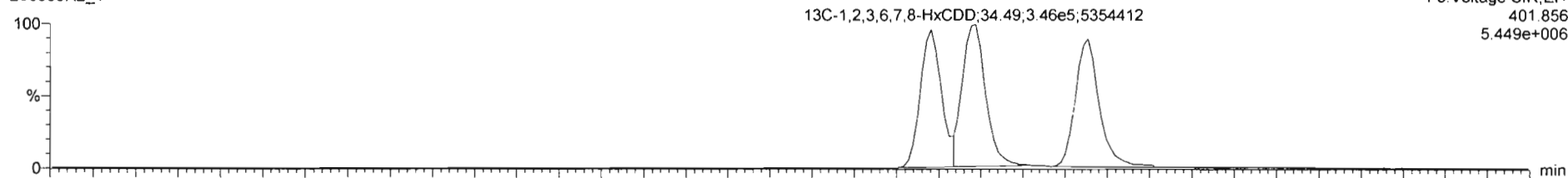


200306R2_1

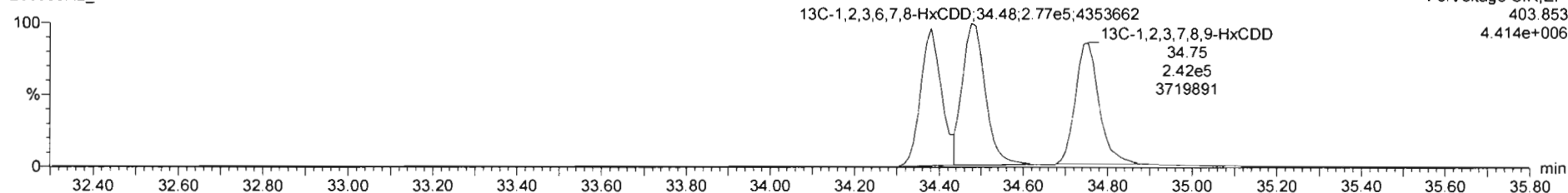


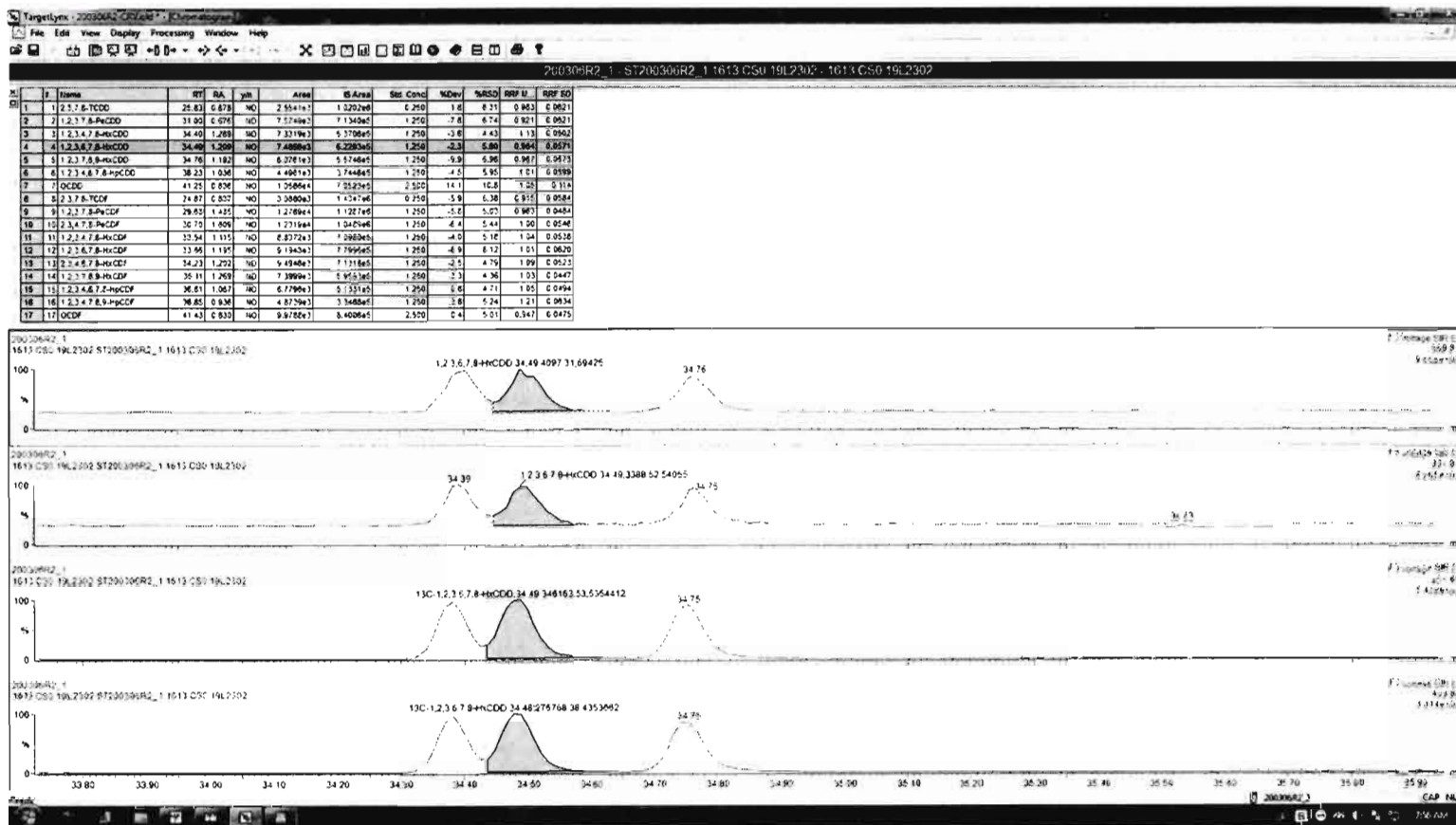
13C-1,2,3,4,7,8-HxCDD

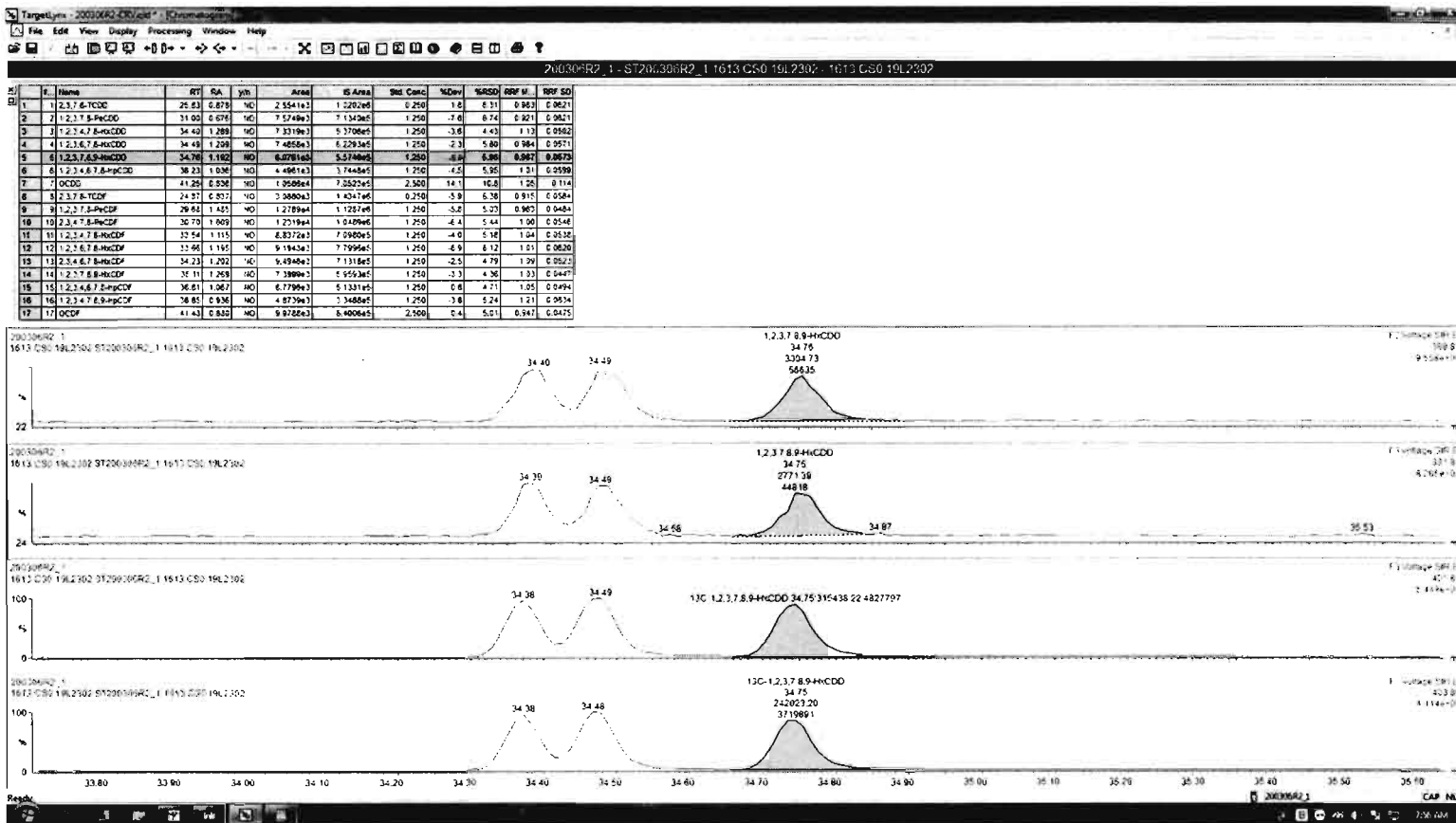
200306R2_1



200306R2_1







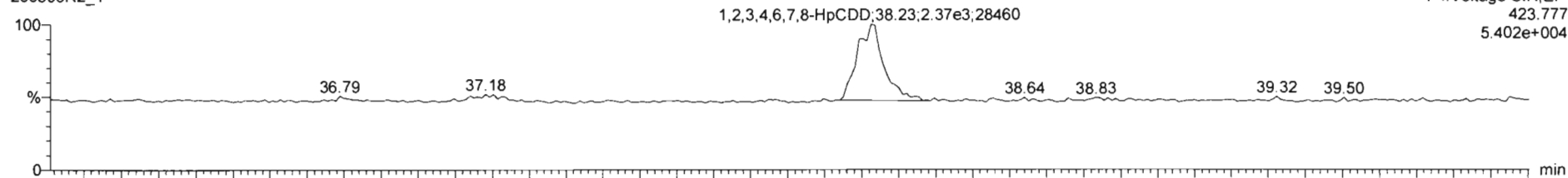
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

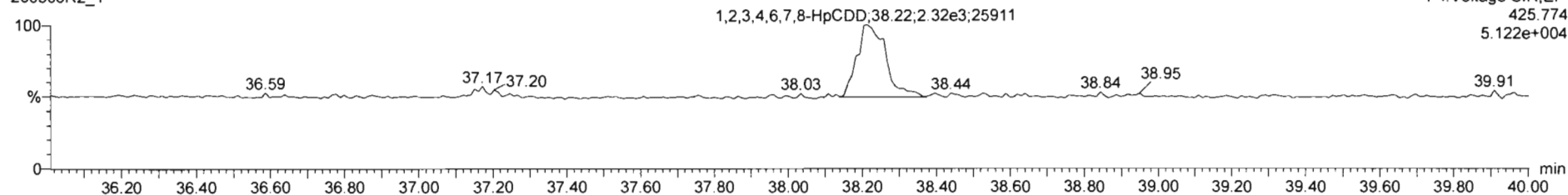
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200306R2_1

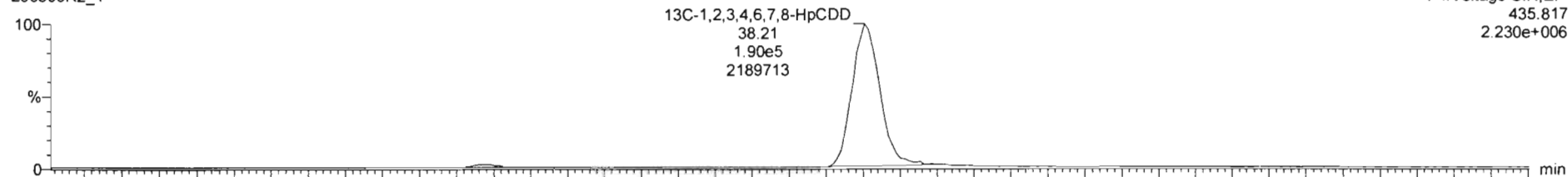


200306R2_1

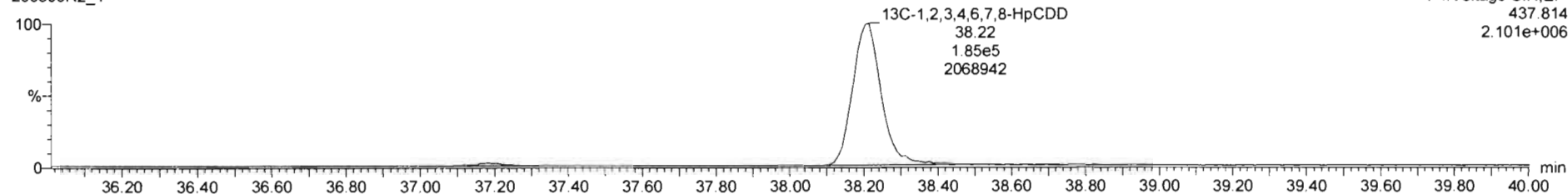


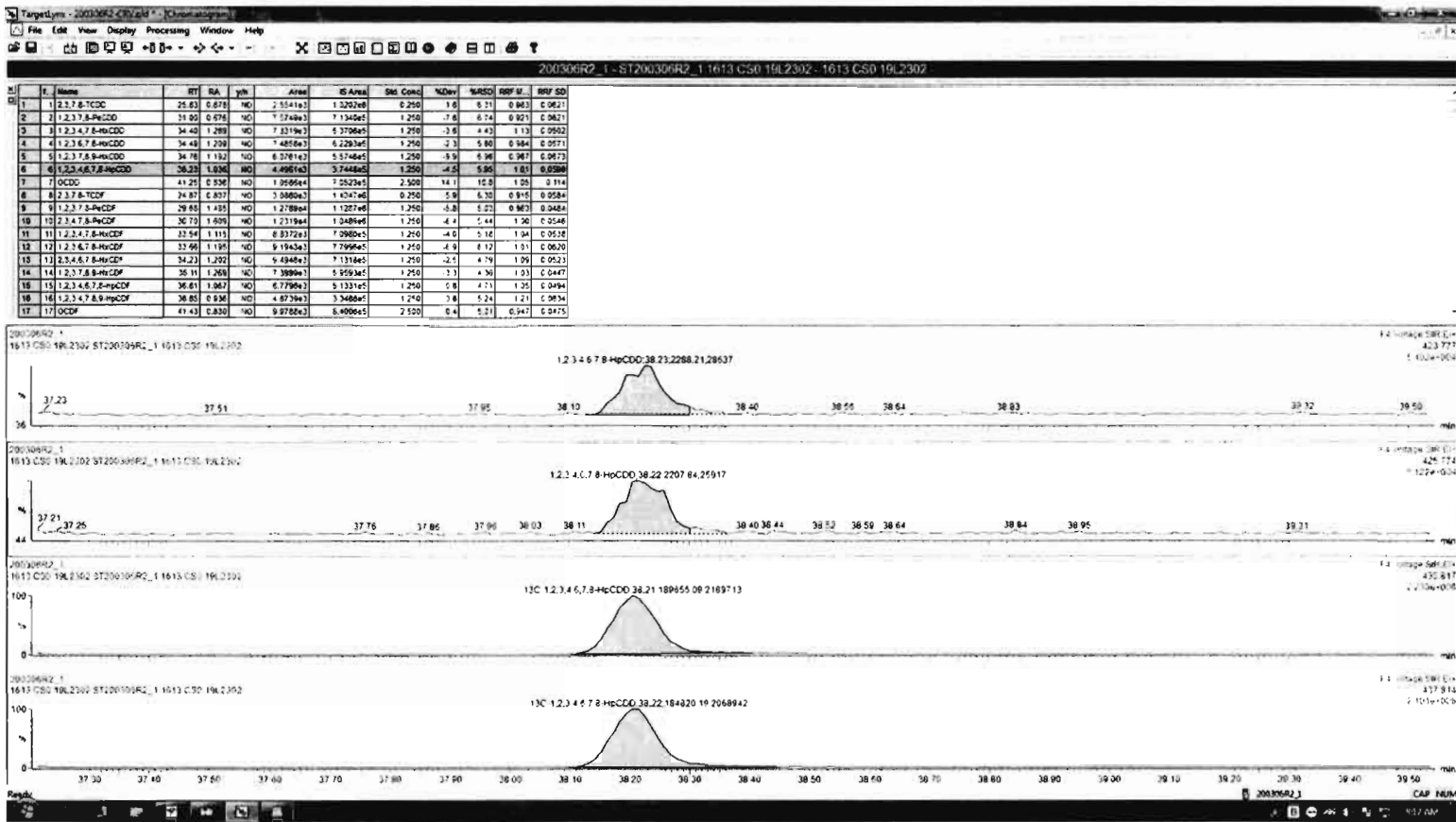
¹³C-1,2,3,4,6,7,8-HpCDD

200306R2_1



200306R2_1

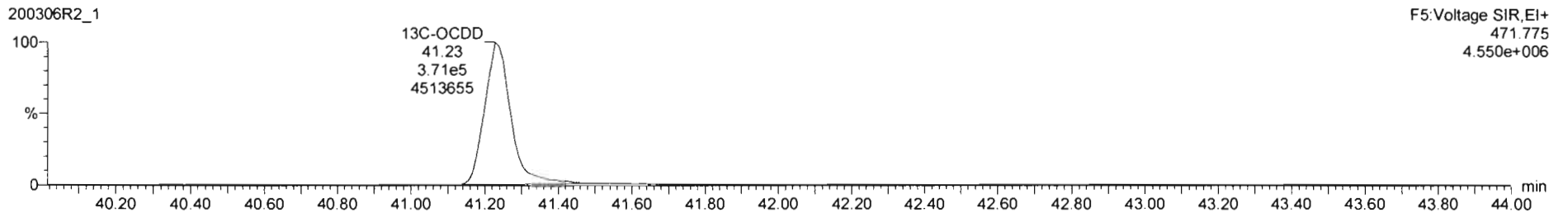
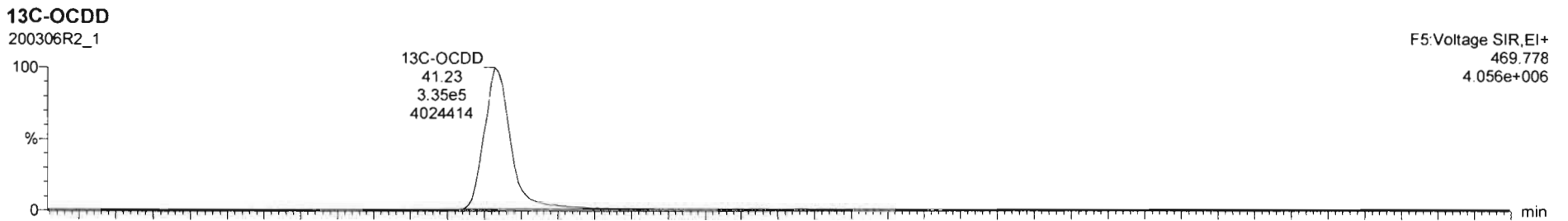
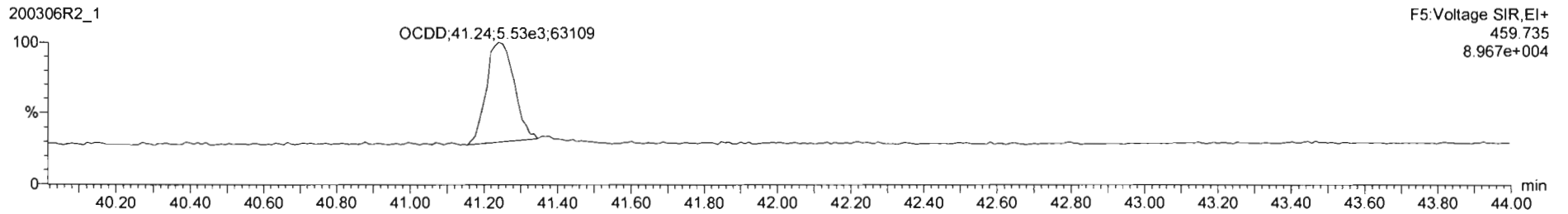
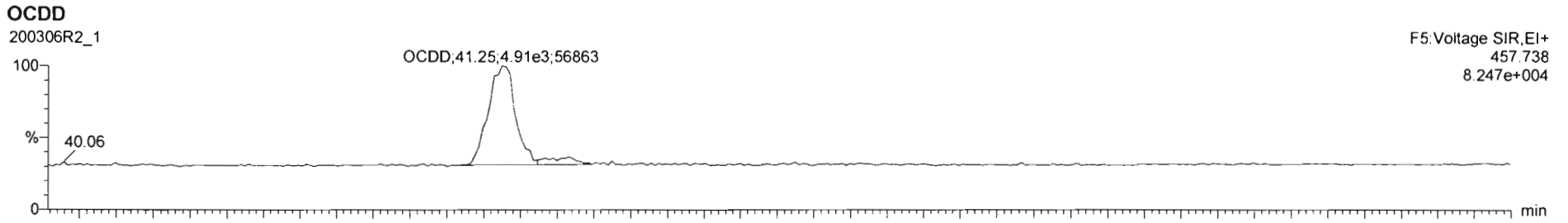


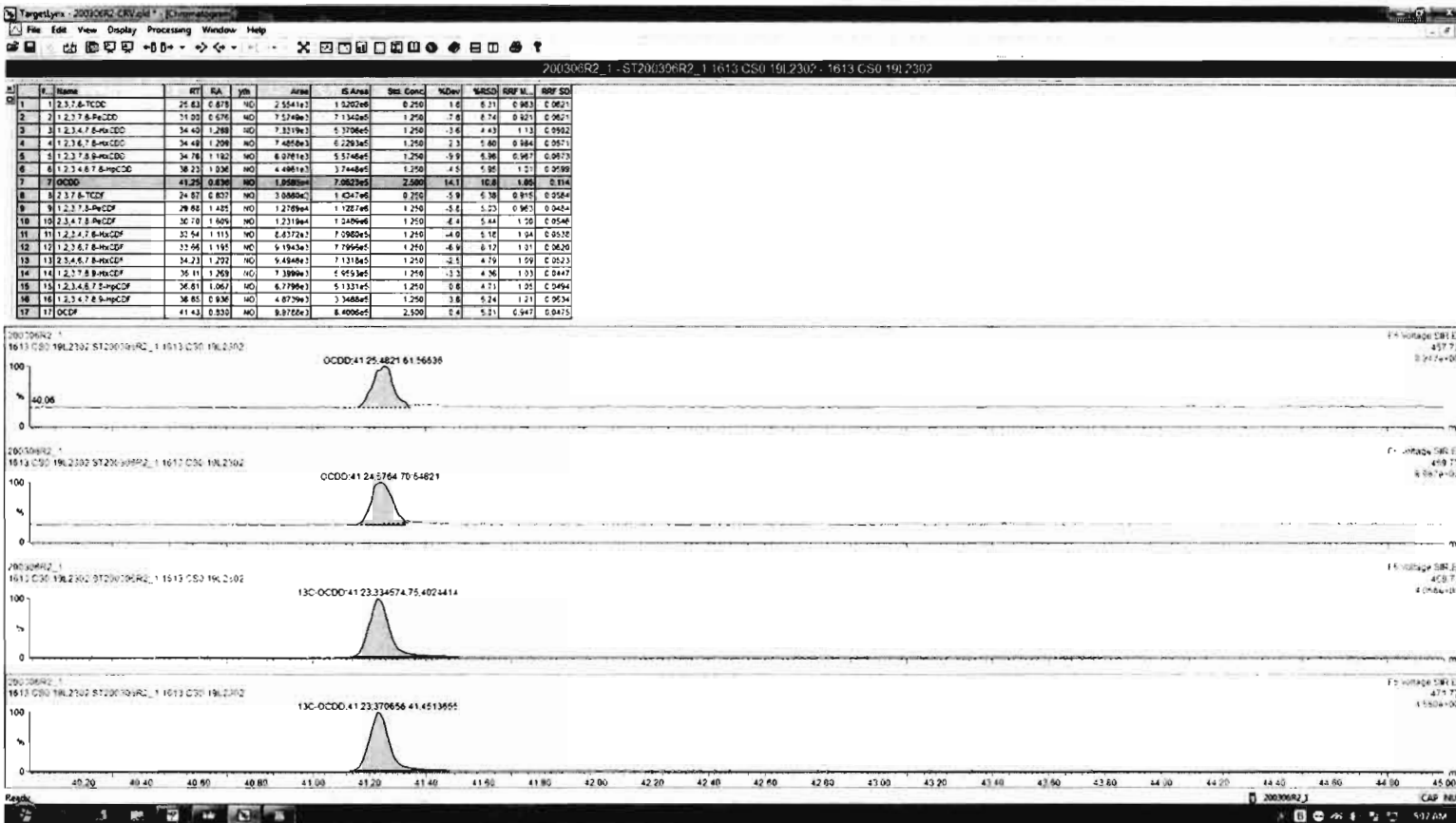


Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302





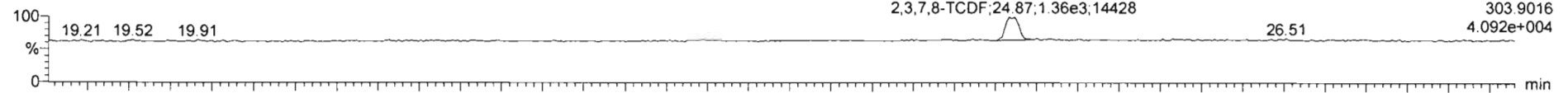
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

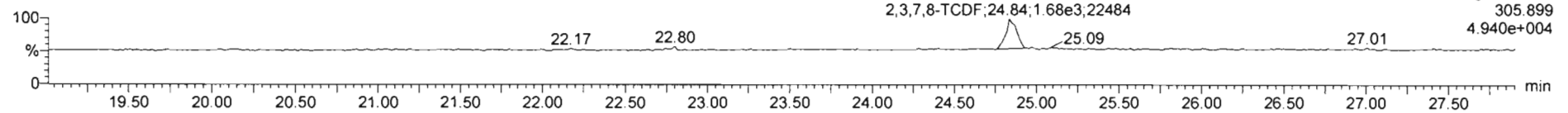
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200306R2_1

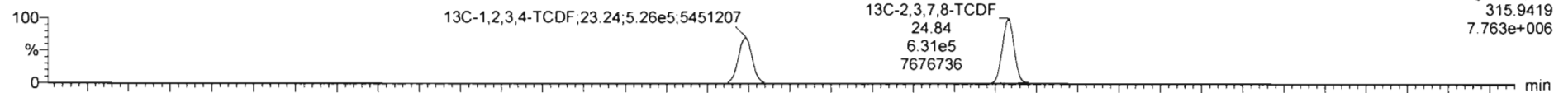


200306R2_1

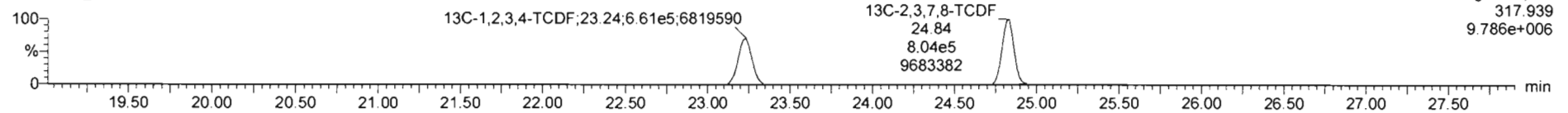


13C-2,3,7,8-TCDF

200306R2_1

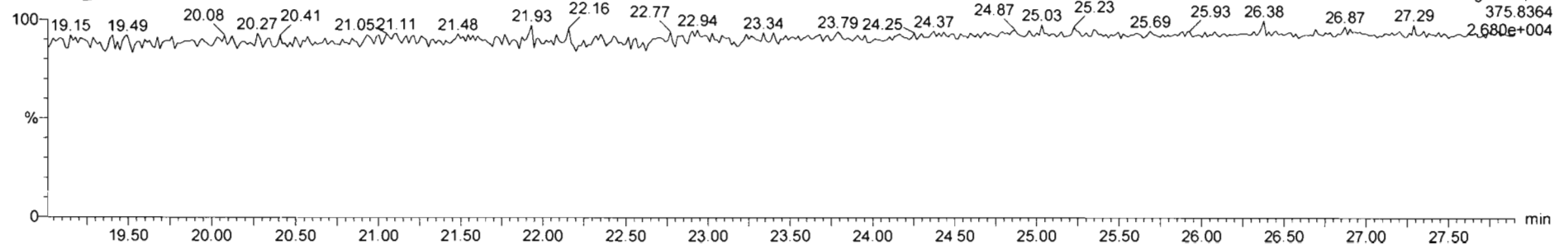


200306R2_1

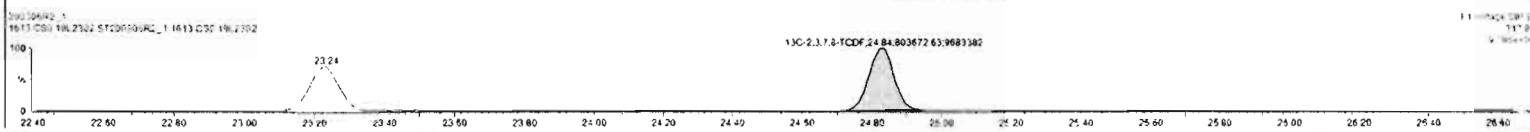
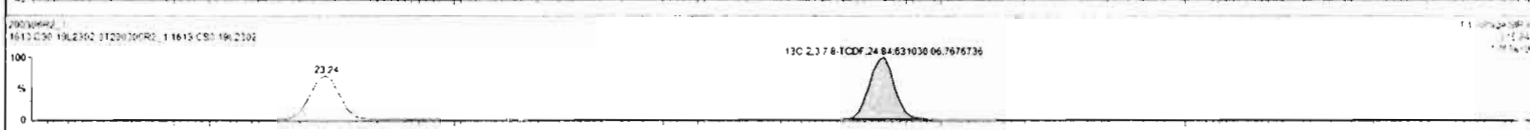
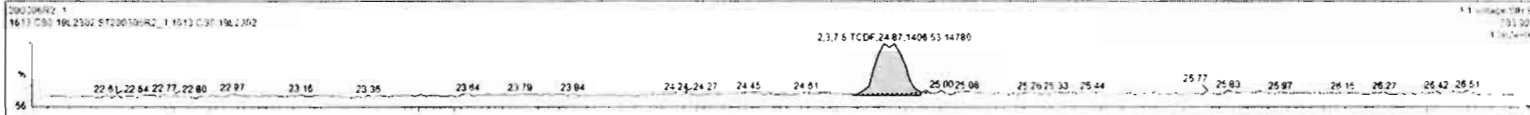


DPE1

200306R2_1



SI	#	Name	RT	RA	Yn	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M	RF SD
1	1	2,3,7,8-TCDF	25.83	0.878	NO	2.351e7	1.8202e8	0.250	1.6	6.31	0.983	0.9821
2	2	1,2,3,7,8-PeCDF	31.90	0.976	NO	7.6749e7	7.1345e8	1.250	-7.6	6.74	0.921	0.9821
3	3	1,2,3,4,7,8-HxCDF	34.40	1.289	NO	7.2319e7	6.3708e8	1.250	-9.8	5.43	1.13	0.9562
4	4	1,2,3,6,7,8-HxCDF	34.43	1.309	NO	7.4855e7	6.2293e8	1.250	-2.3	5.80	0.984	0.9571
5	5	1,2,3,7,8-HxCDF	34.78	1.192	NO	8.3781e7	5.5748e8	1.250	-3.9	6.98	0.987	0.9673
6	6	1,2,3,4,6,7,8-HpCDF	38.23	1.036	NO	4.4961e7	3.7448e8	1.250	-4.5	5.55	1.01	0.9599
7	7	OCDF	41.25	0.938	NO	1.0585e8	7.9525e8	2.500	14.1	10.8	1.05	3.114
8	8	2,3,7,8-TCDF	24.87	0.837	NO	3.0885e7	1.4247e8	0.250	-0.9	6.38	0.915	0.8584
9	9	1,2,3,7,8-PeCDF	29.80	1.435	NO	1.2788e8	1.1287e8	1.250	-8.6	5.23	0.982	0.9484
10	10	1,2,3,4,7,8-HxCDF	32.70	1.686	NO	1.2319e8	1.0489e8	1.250	-4.4	5.44	1.06	0.9546
11	11	1,2,3,4,7,8-HxCDF	32.84	1.111	NO	8.6378e7	7.9929e8	1.250	-4.0	5.18	1.04	0.9526
12	12	1,2,3,6,7,8-HxCDF	32.96	1.191	NO	9.1943e7	7.7999e8	1.250	-4.9	6.12	1.01	0.9620
13	13	2,3,4,6,7,8-HxCDF	34.23	1.202	NO	9.4946e7	7.1318e8	1.250	-2.5	4.79	1.09	0.9523
14	14	1,2,3,7,8-HxCDF	35.11	1.268	NO	7.3899e7	5.9593e8	1.250	-3.3	4.36	1.03	0.9447
15	15	1,2,3,4,6,7,8-HpCDF	36.81	1.067	NO	6.7796e7	5.1331e8	1.250	0.8	4.71	1.05	0.9494
16	16	1,2,3,4,7,8-HxCDF	38.85	0.938	NO	4.8739e7	3.7468e8	1.250	-1.8	5.24	1.21	0.9534
17	17	OCDF	41.43	0.833	NO	9.8728e7	8.4006e8	2.500	0.4	5.91	0.947	0.9475



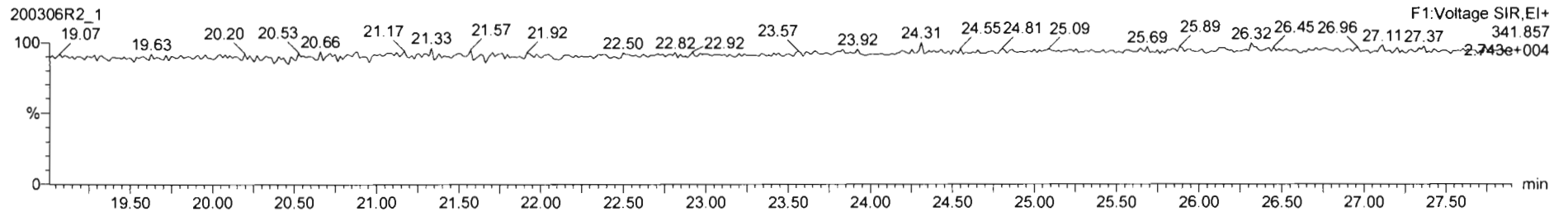
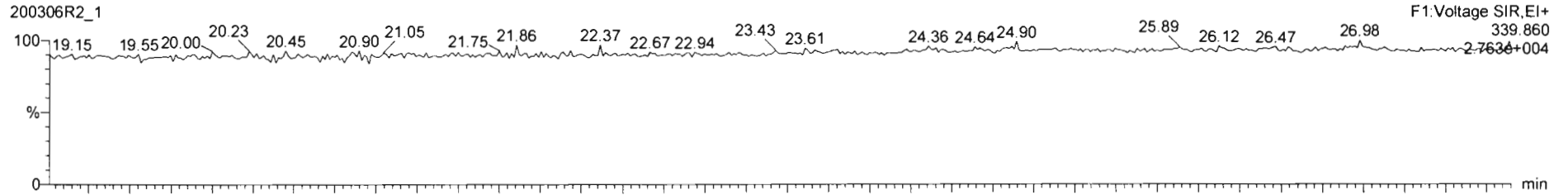
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

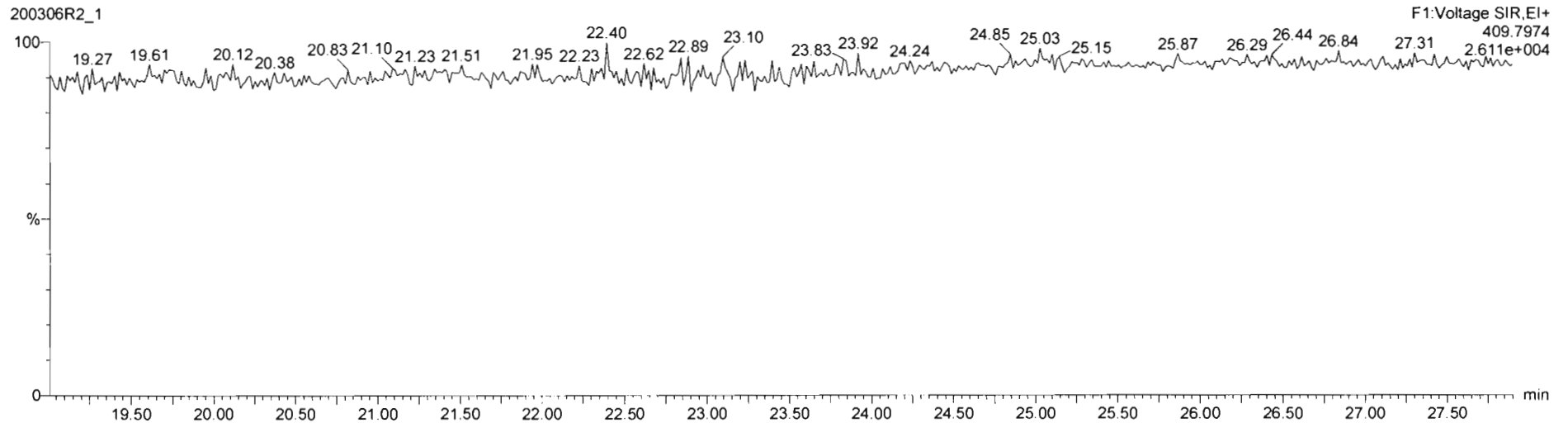
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1st Func. Penta-Furans



DPE6



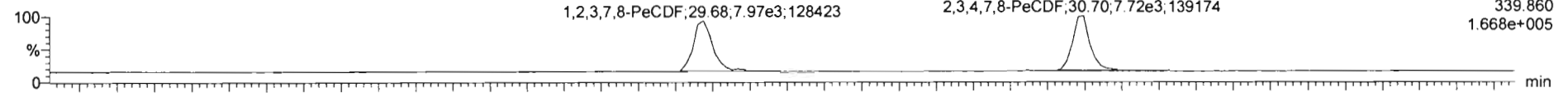
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

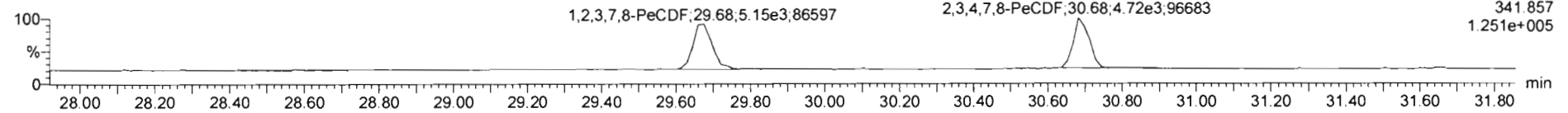
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDF

200306R2_1

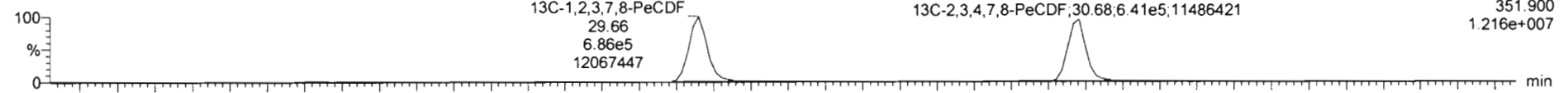


200306R2_1

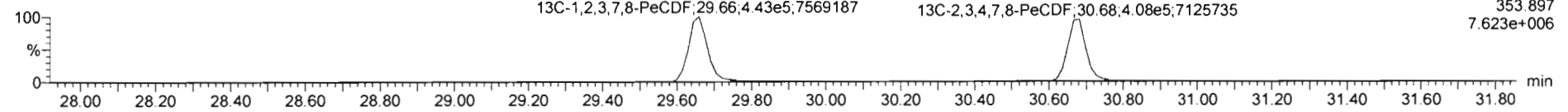


13C-1,2,3,7,8-PeCDF

200306R2_1

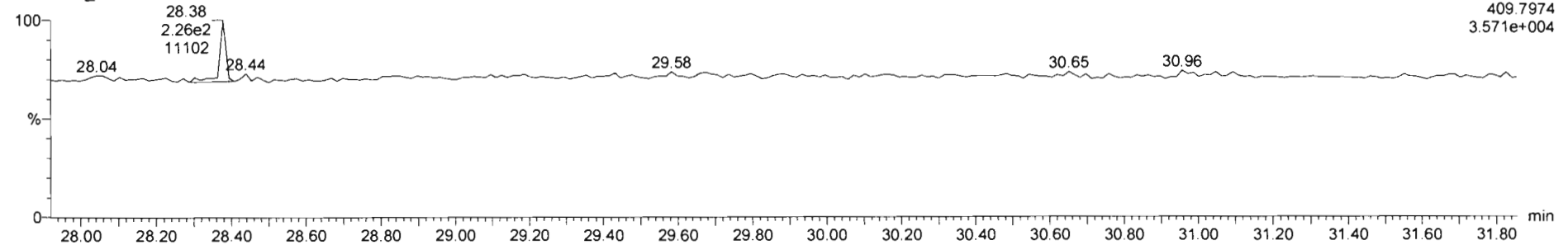


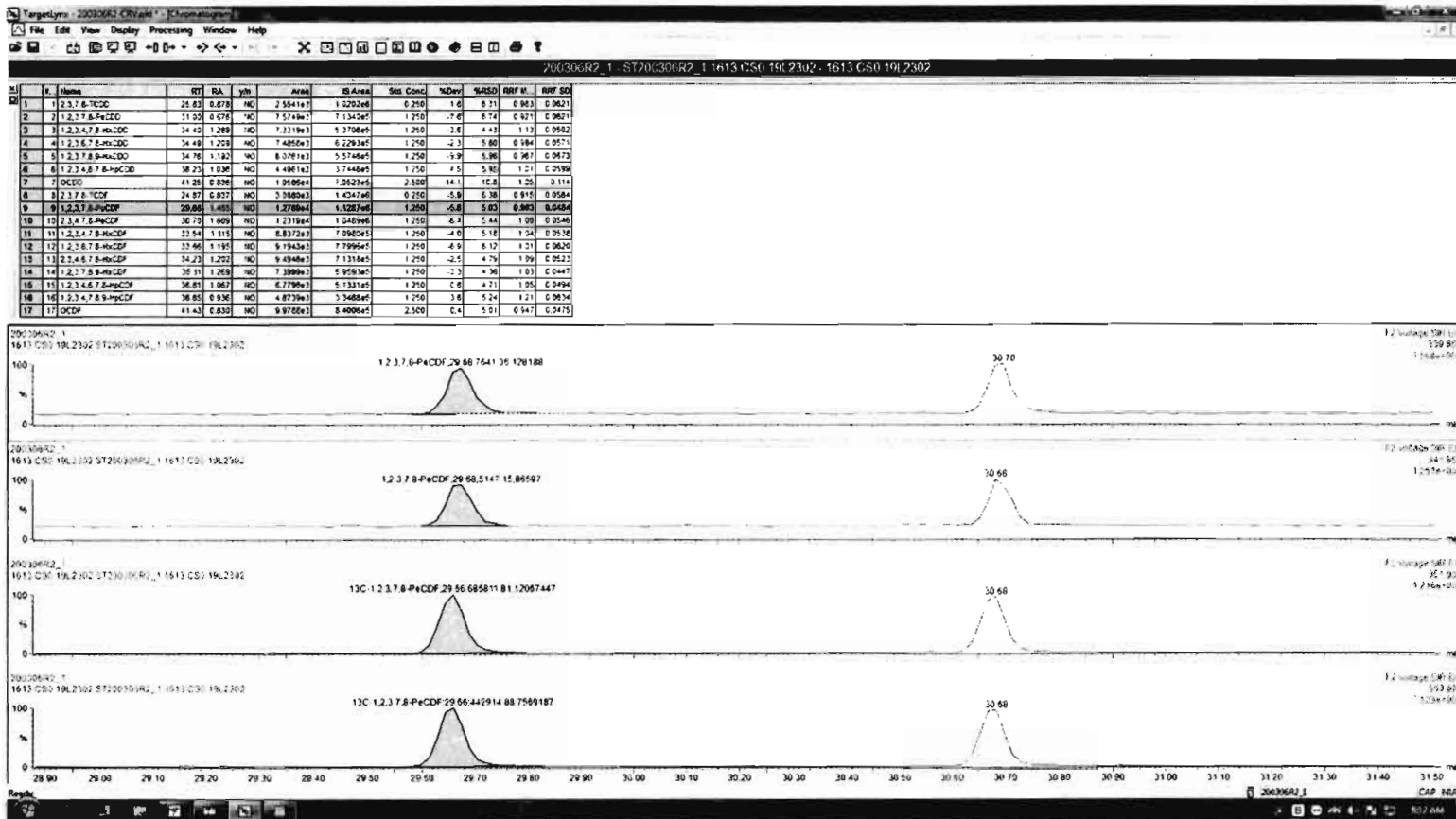
200306R2_1

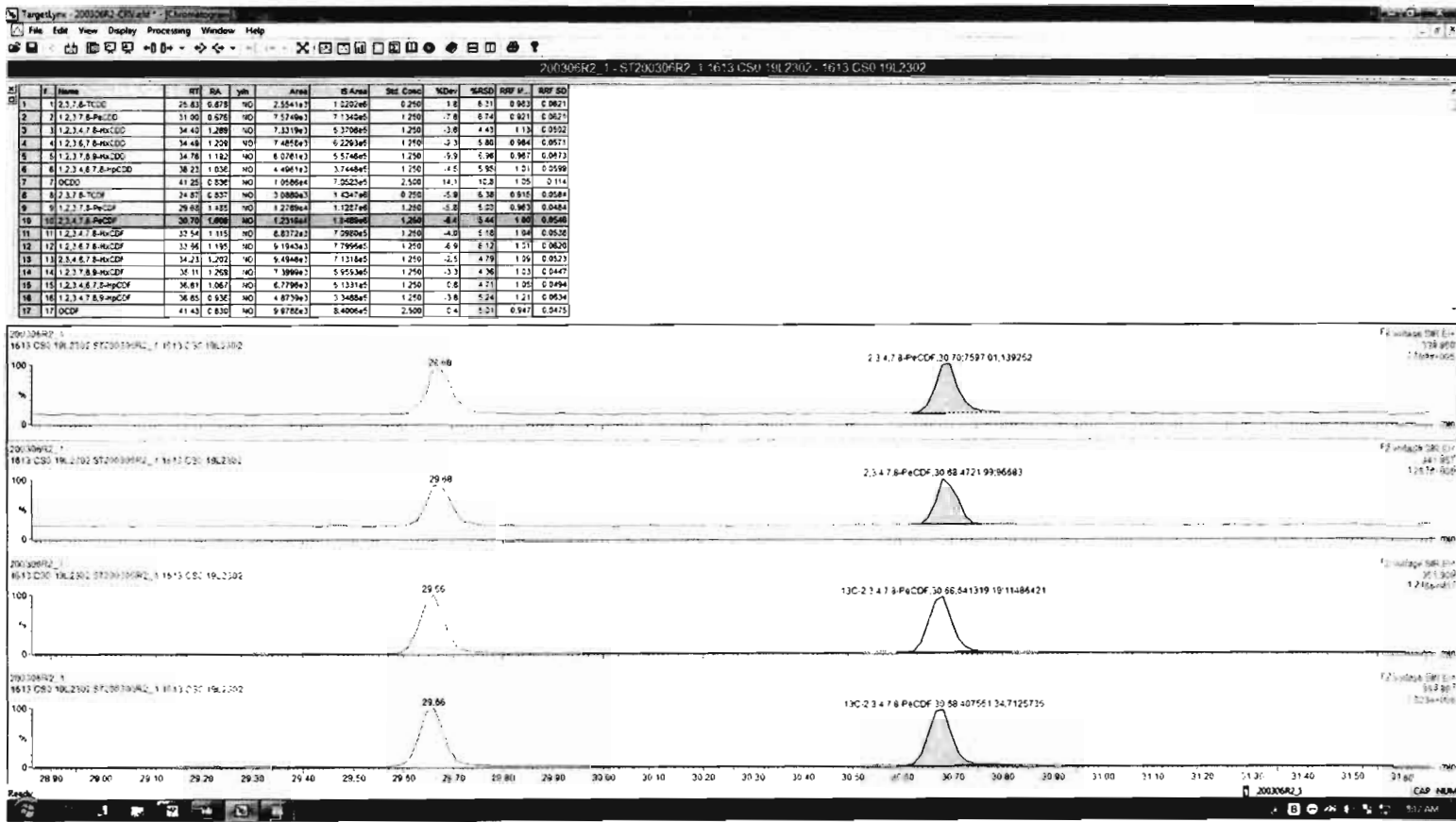


DPE2

200306R2_1







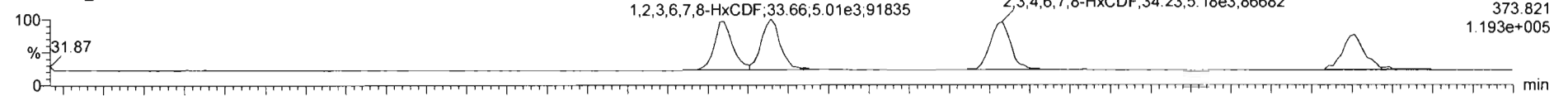
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

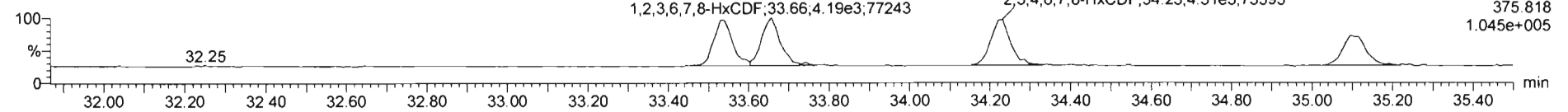
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200306R2_1

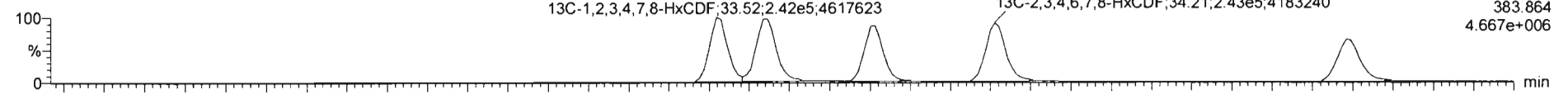


200306R2_1

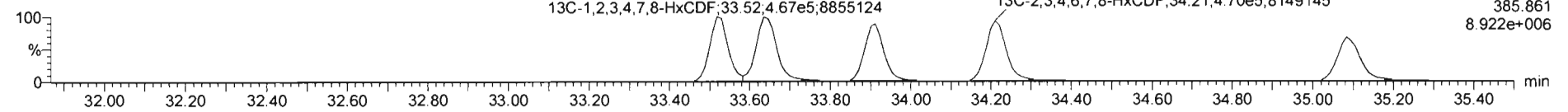


13C-1,2,3,4,7,8-HxCDF

200306R2_1

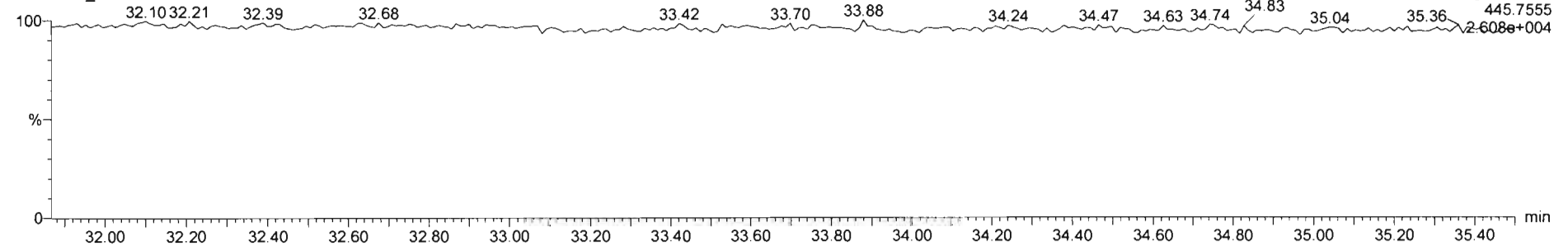


200306R2_1



DPE3

200306R2_1

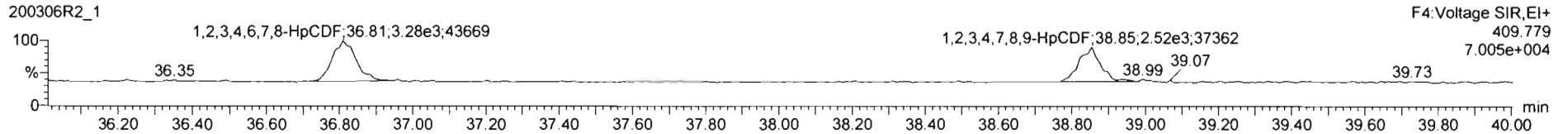
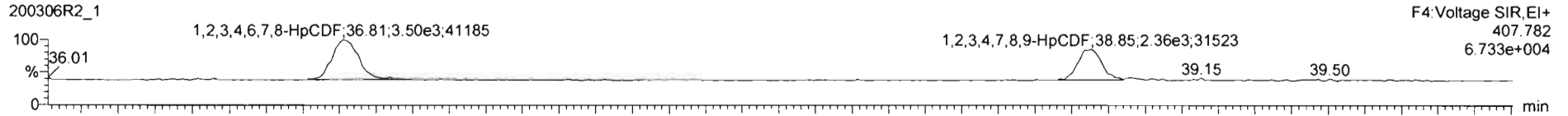


Dataset: Untitled

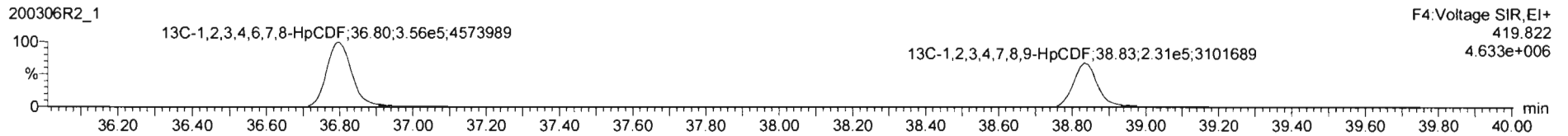
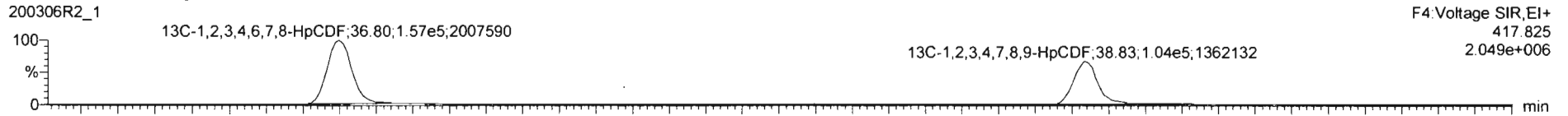
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

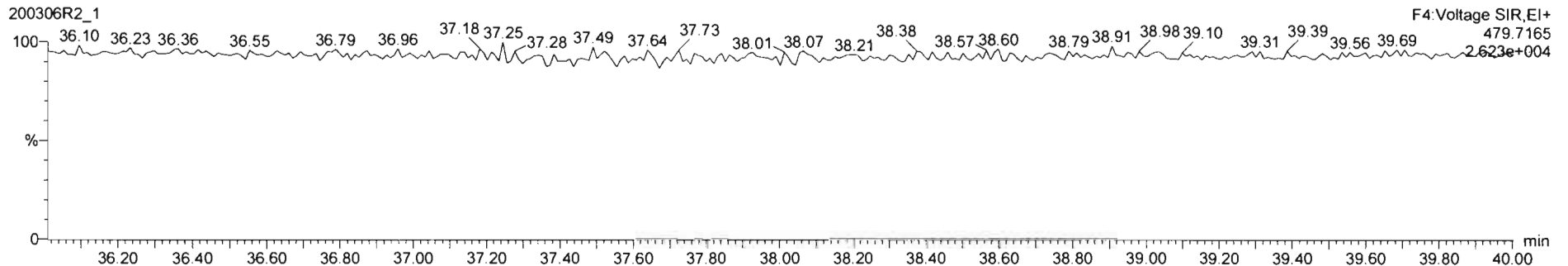
1,2,3,4,6,7,8-HpCDF



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



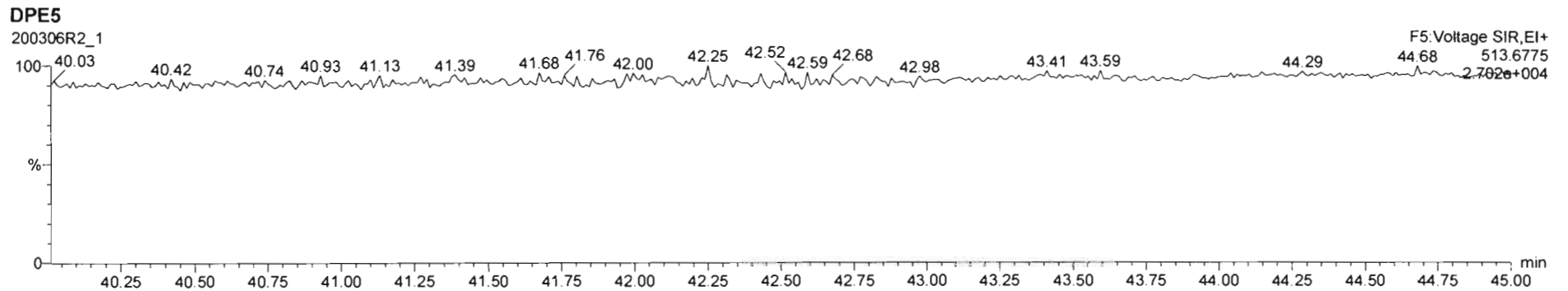
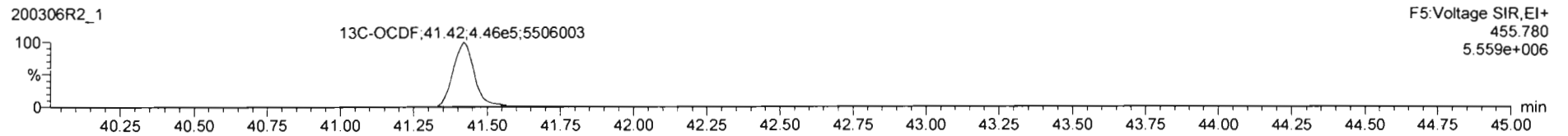
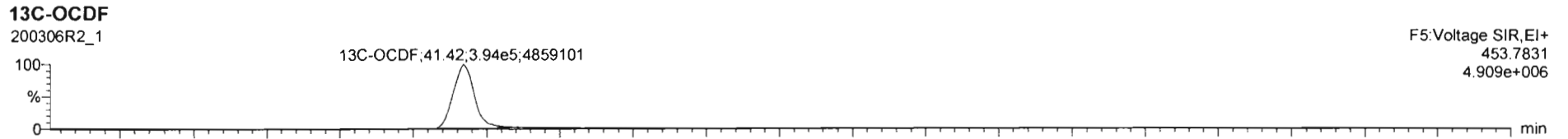
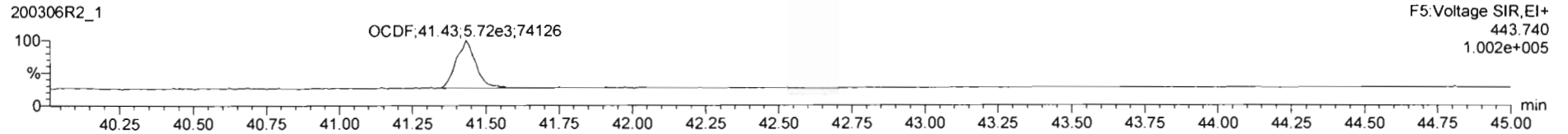
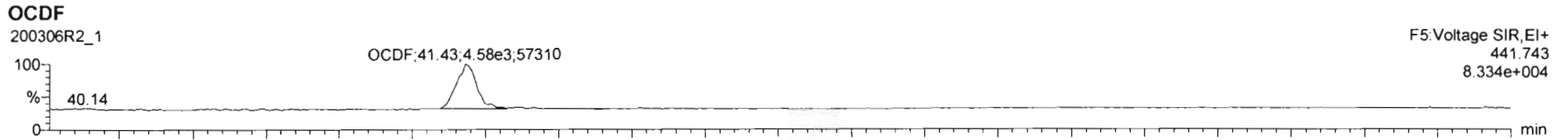
DPE4

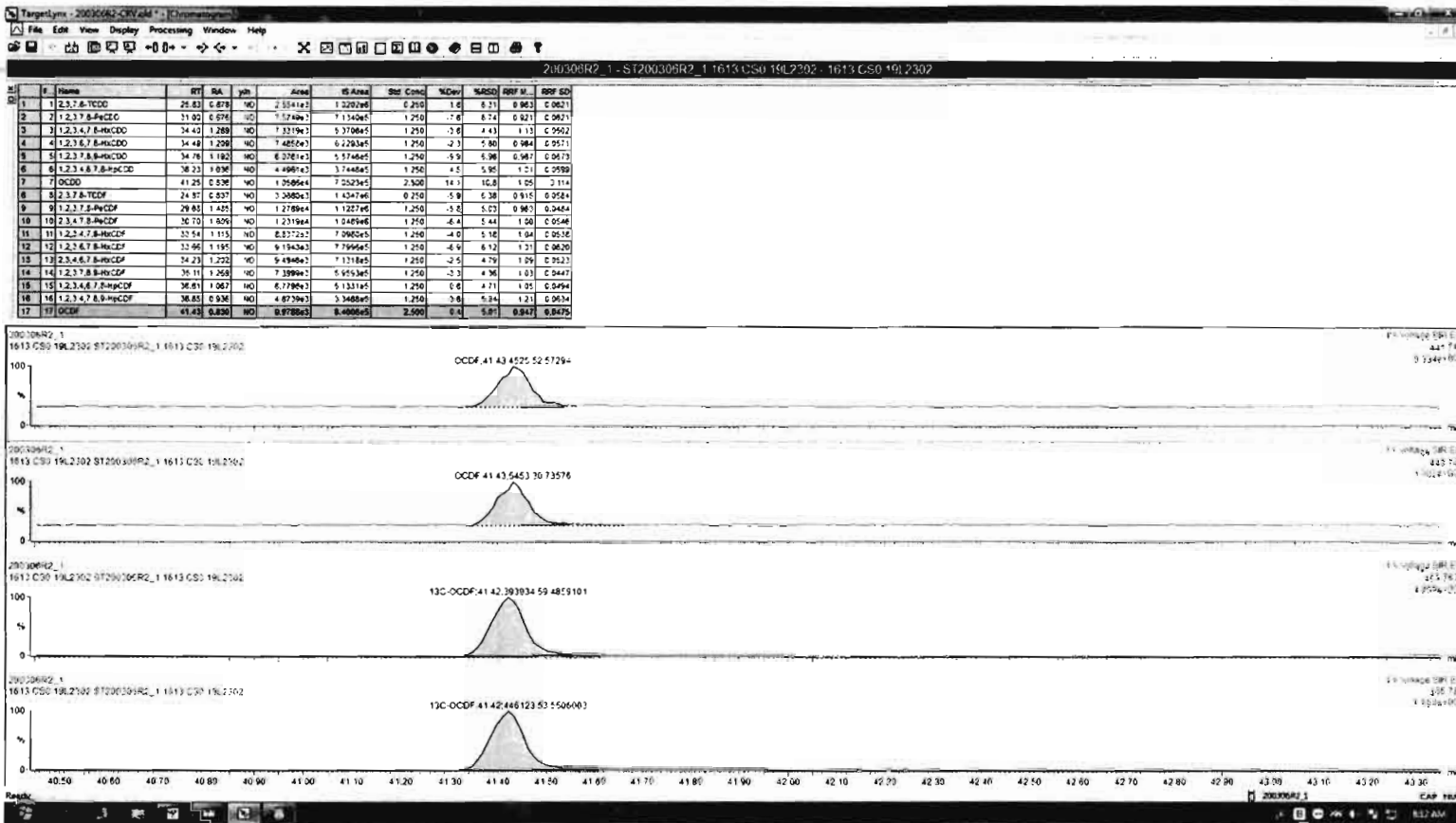


Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

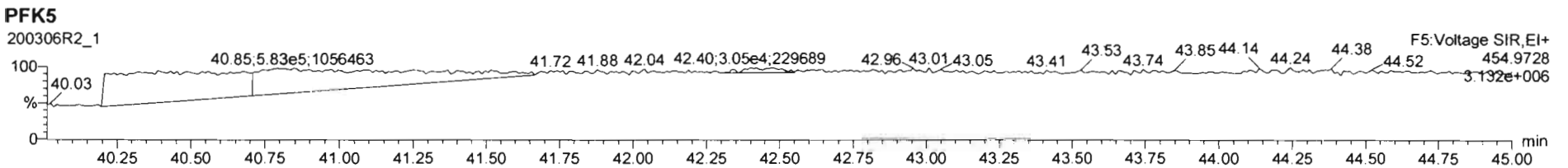
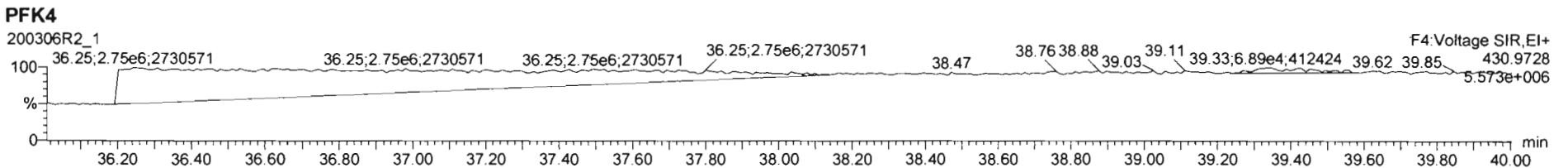
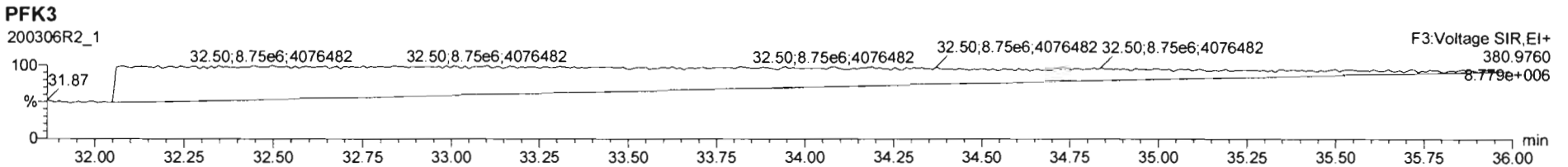
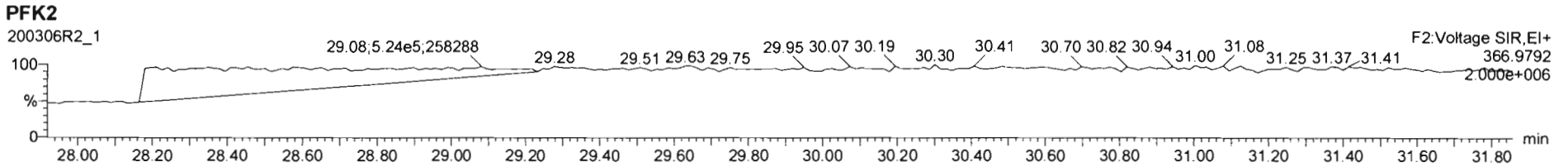
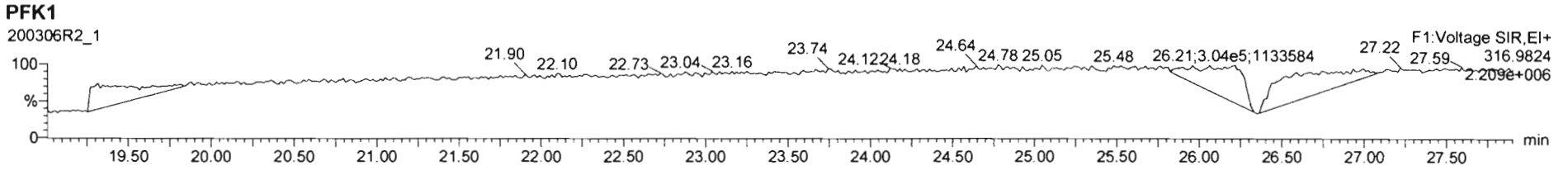




Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



Dataset: Untitled

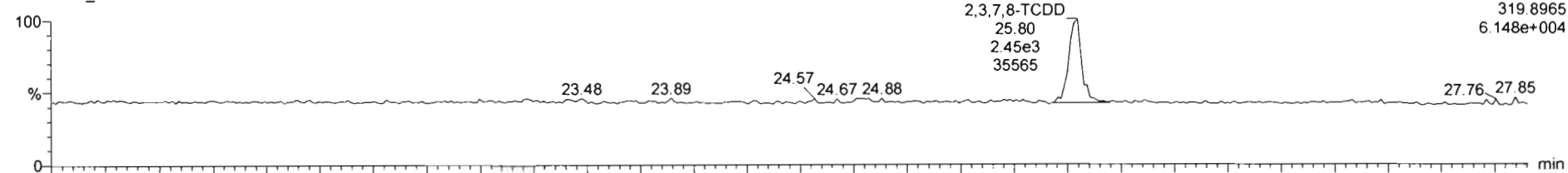
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

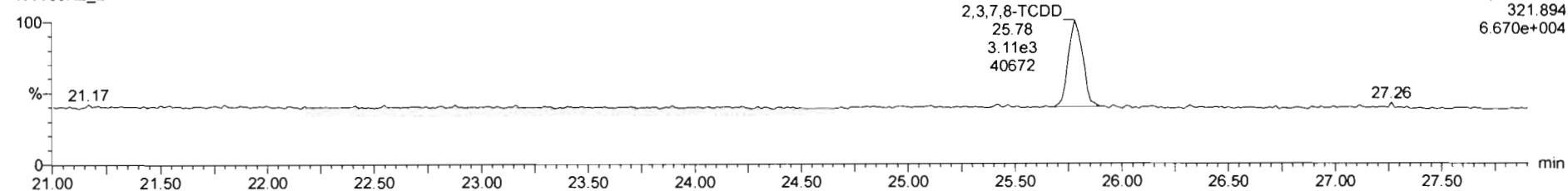
Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDD

200306R2_2

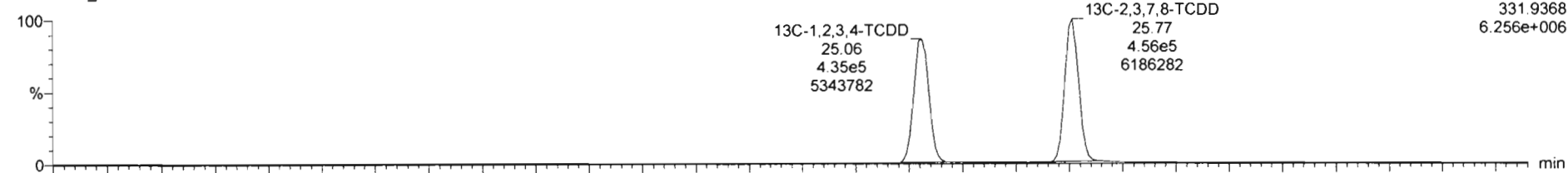


200306R2_2

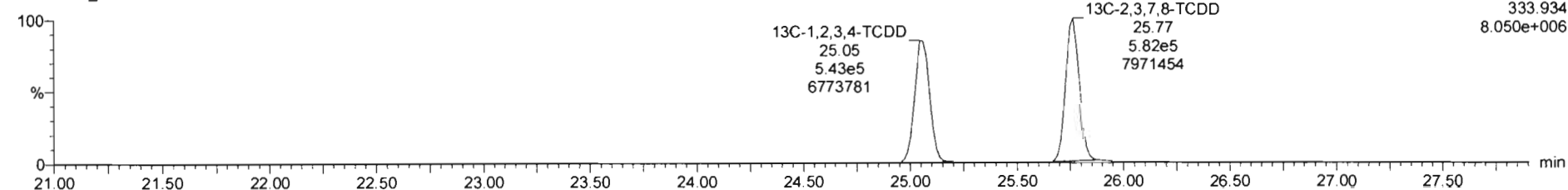


13C-2,3,7,8-TCDD

200306R2_2



200306R2_2



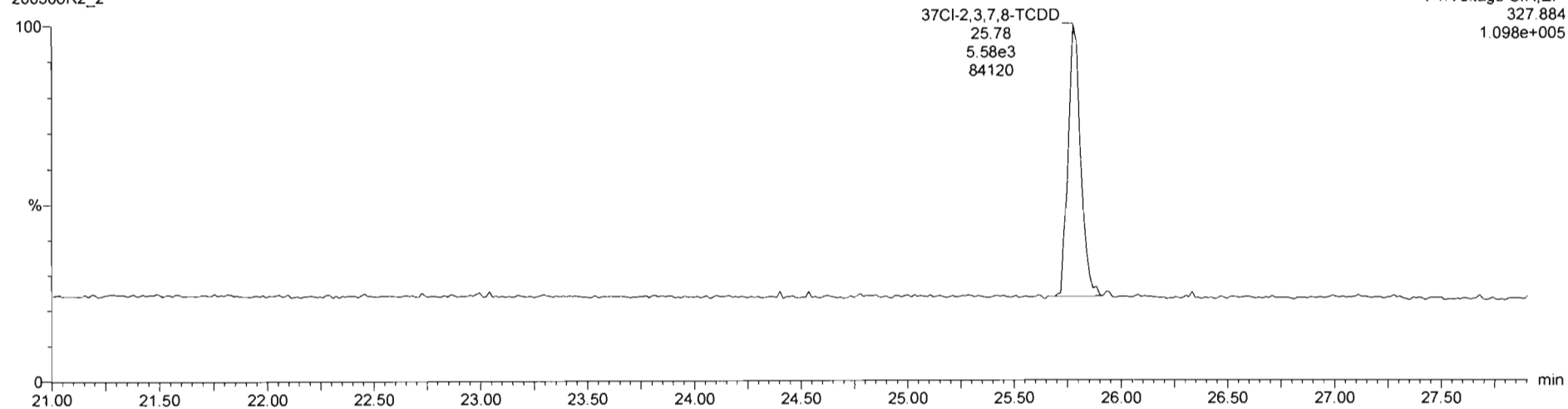
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

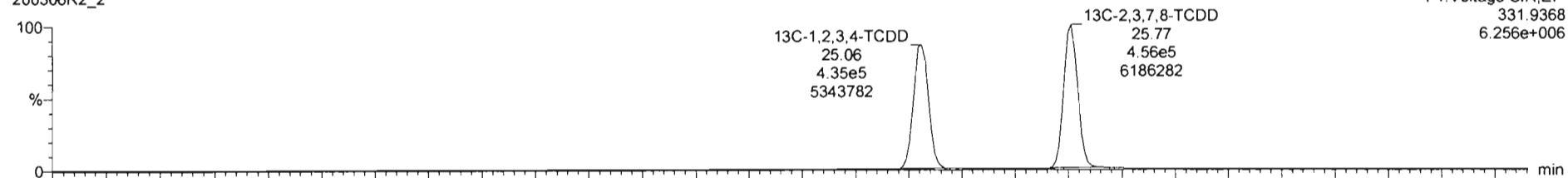
37Cl-2,3,7,8-TCDD

200306R2_2

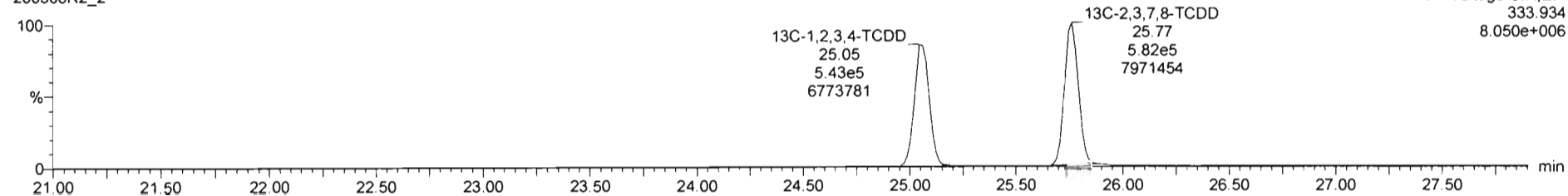


13C-1,2,3,4-TCDD

200306R2_2



200306R2_2



Dataset: Untitled

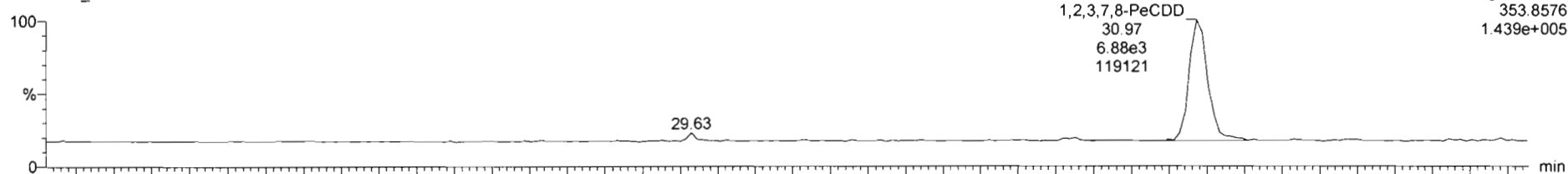
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

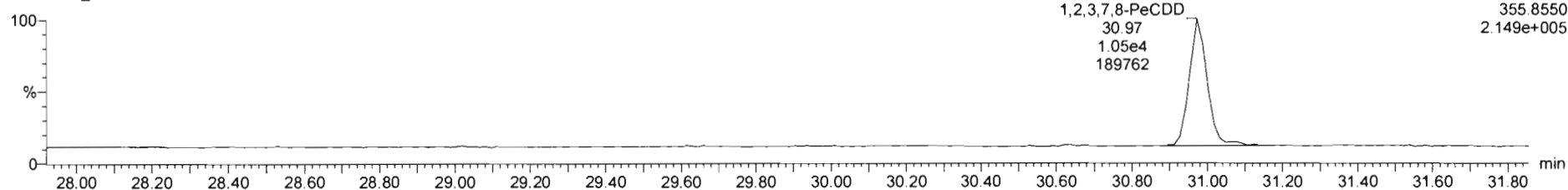
Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1,2,3,7,8-PeCDD

200306R2_2

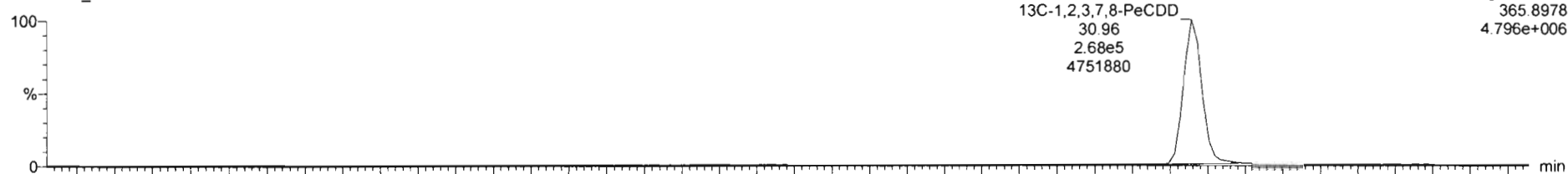


200306R2_2

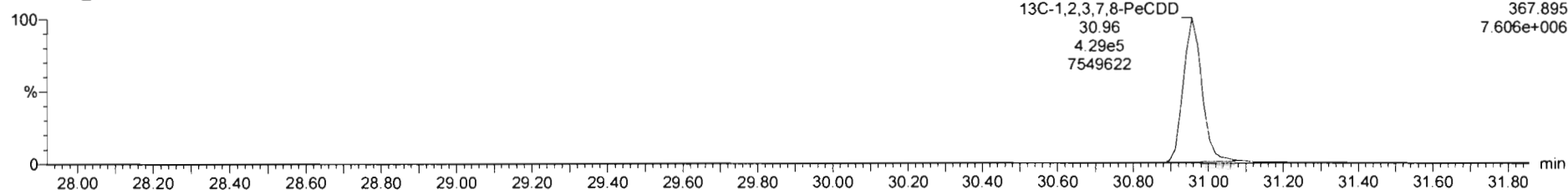


13C-1,2,3,7,8-PeCDD

200306R2_2



200306R2_2



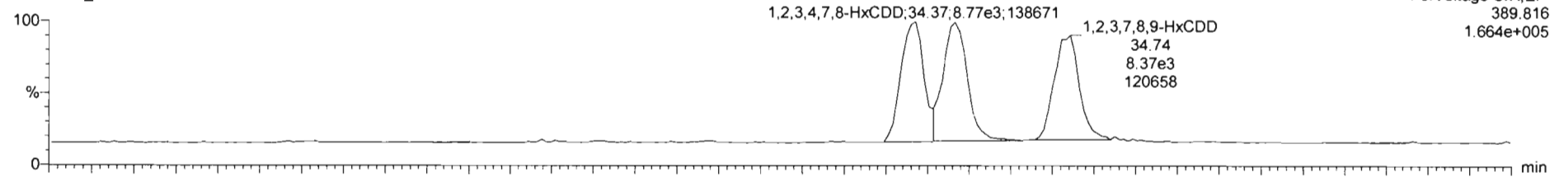
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

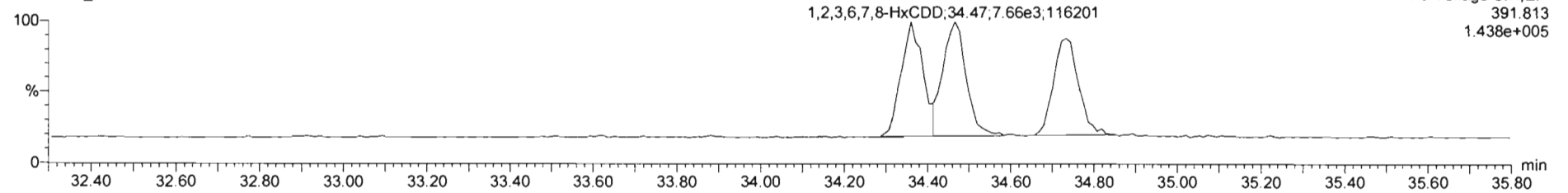
Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200306R2_2

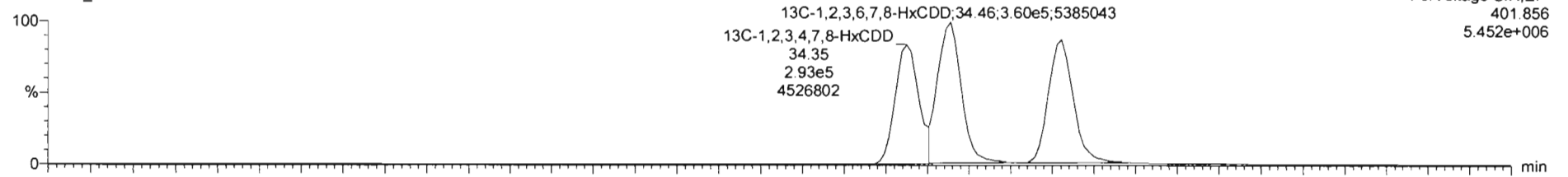


200306R2_2

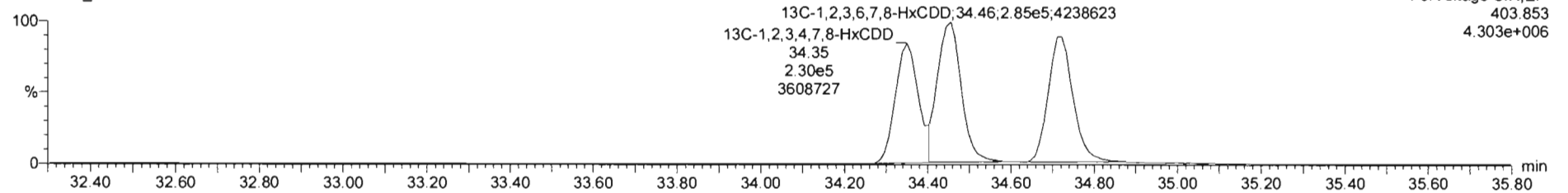


13C-1,2,3,4,7,8-HxCDD

200306R2_2



200306R2_2



Dataset: Untitled

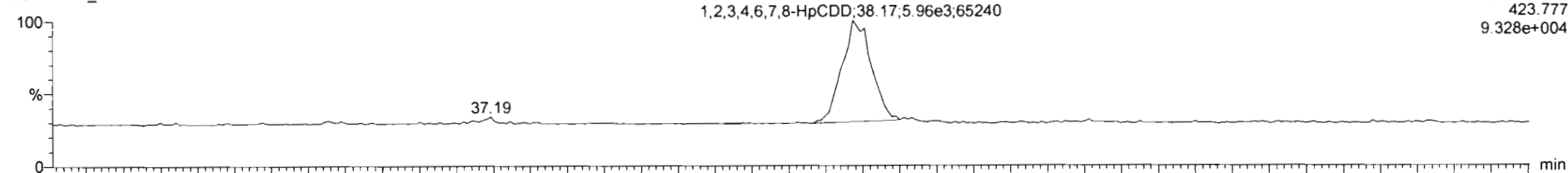
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

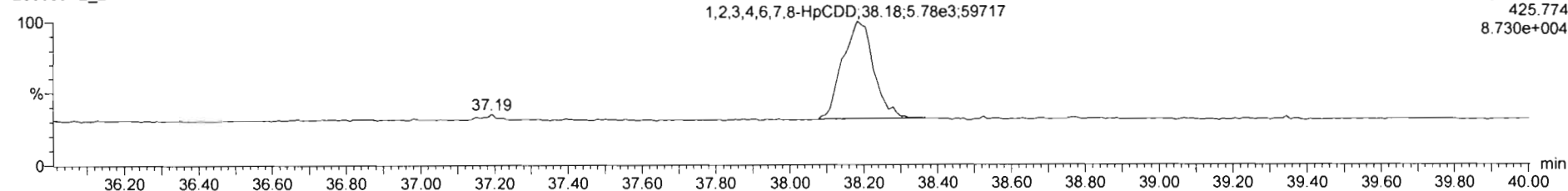
1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
423.777
9.328e+004

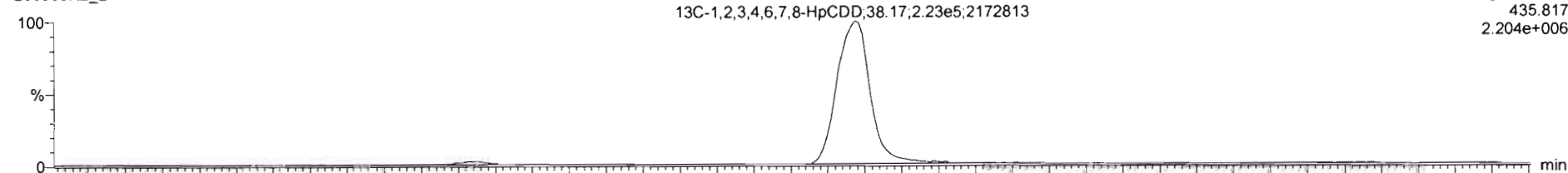
200306R2_2



F4: Voltage SIR, EI+
425.774
8.730e+004

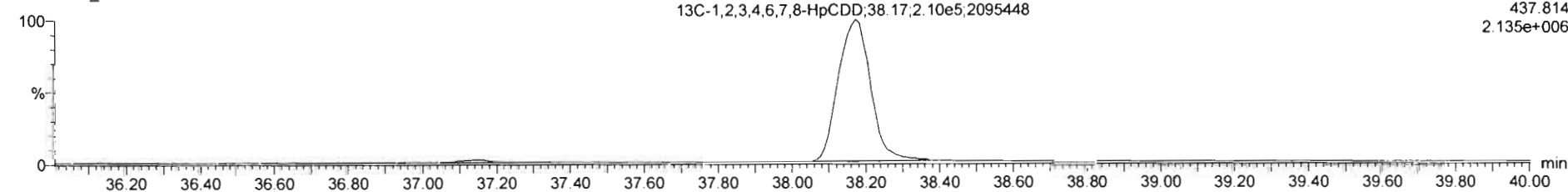
13C-1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
435.817
2.204e+006

200306R2_2



F4: Voltage SIR, EI+
437.814
2.135e+006

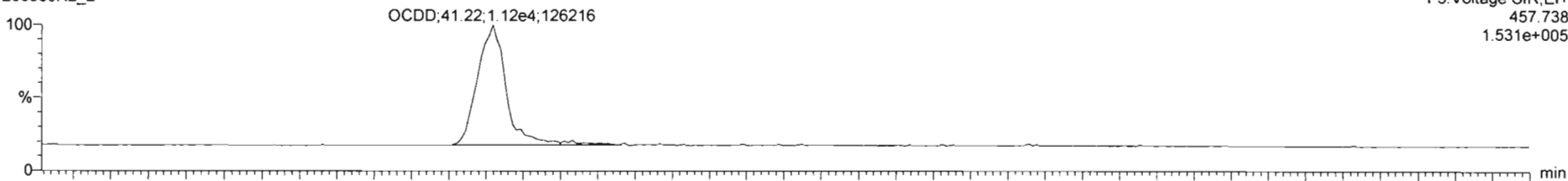
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

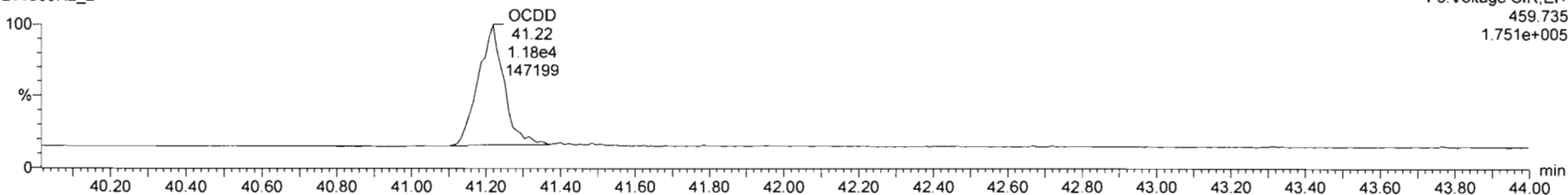
Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

OCDD

200306R2_2

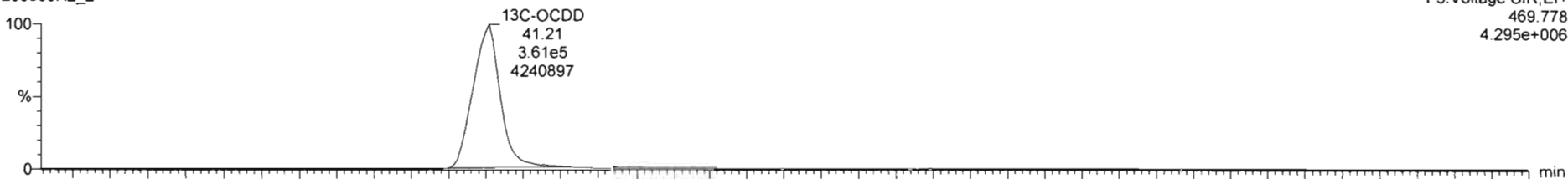


200306R2_2

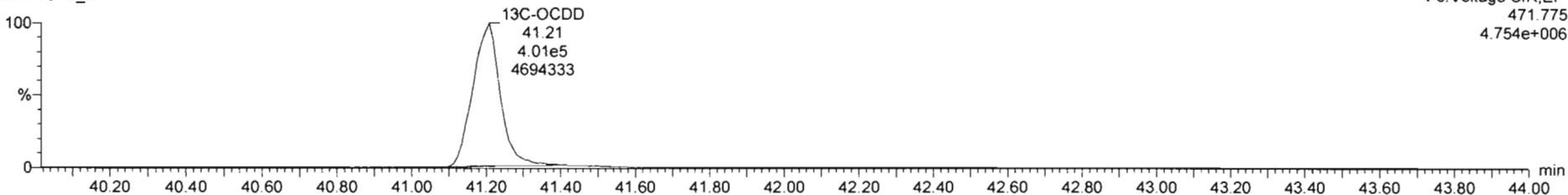


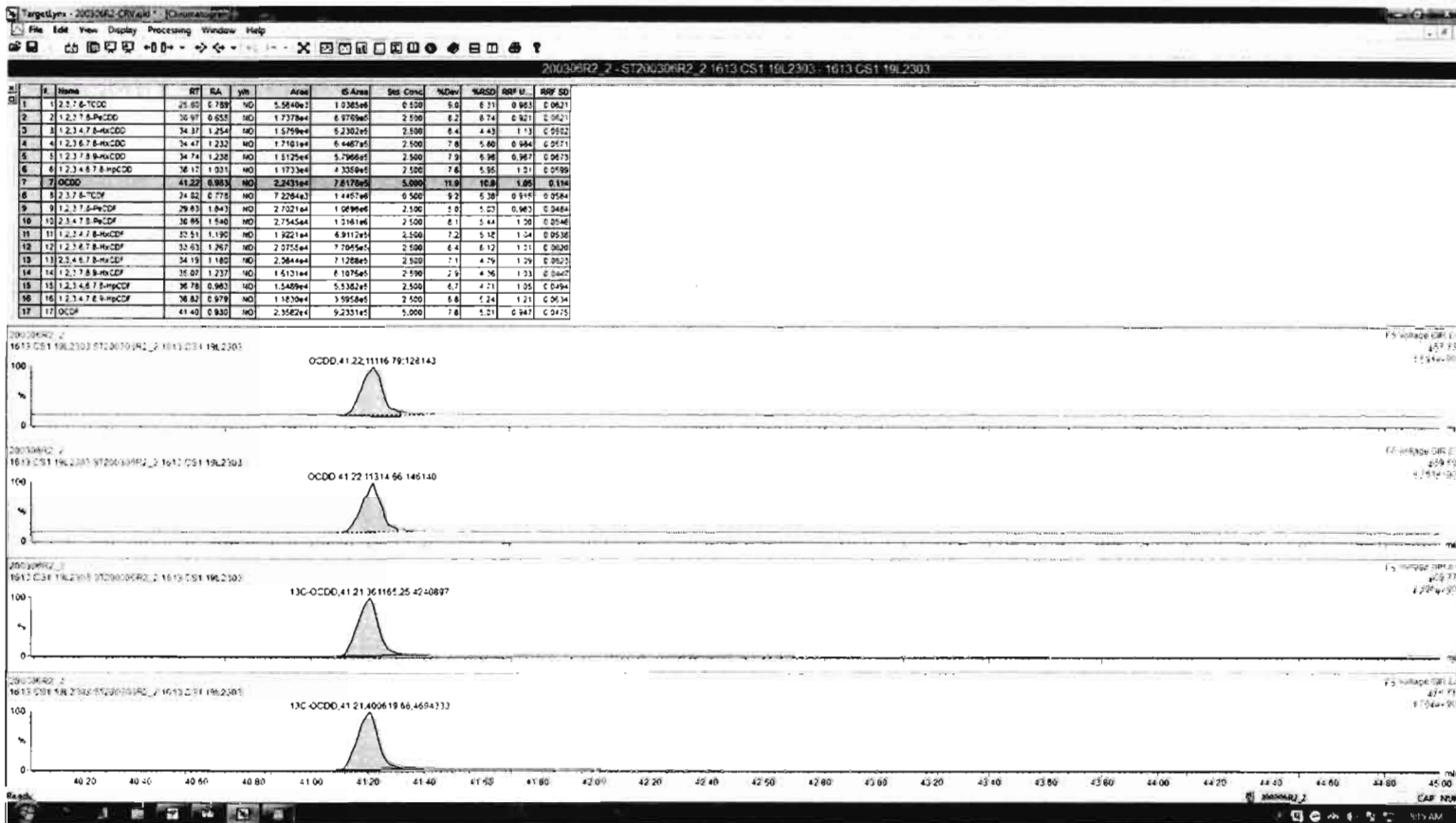
13C-OCDD

200306R2_2



200306R2_2





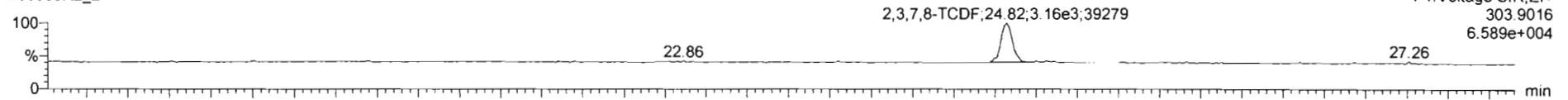
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

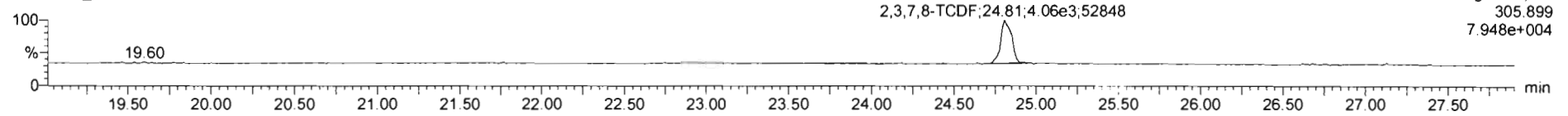
Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200306R2_2

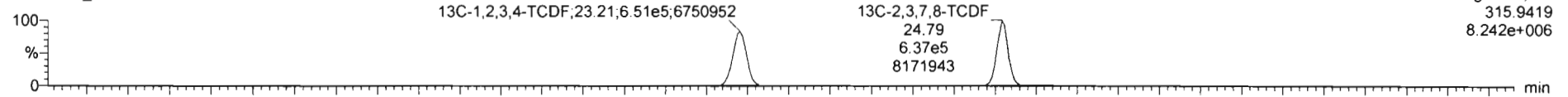


200306R2_2

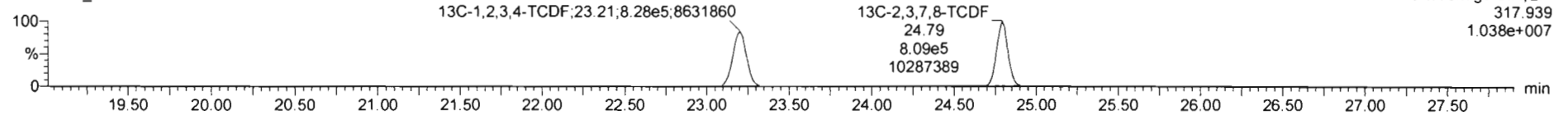


13C-2,3,7,8-TCDF

200306R2_2

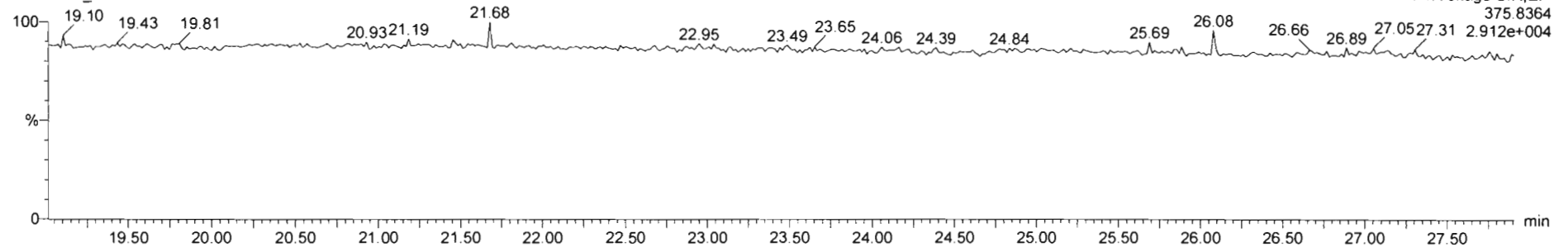


200306R2_2



DPE1

200306R2_2



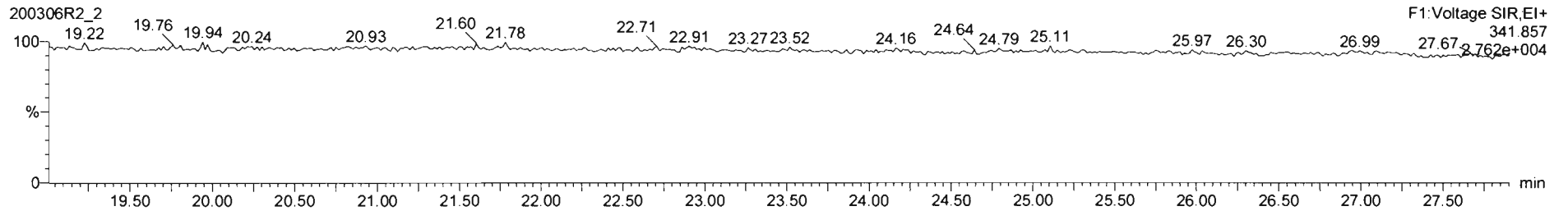
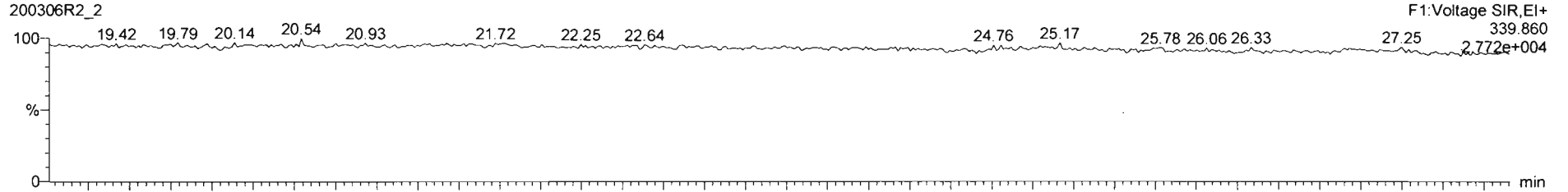
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

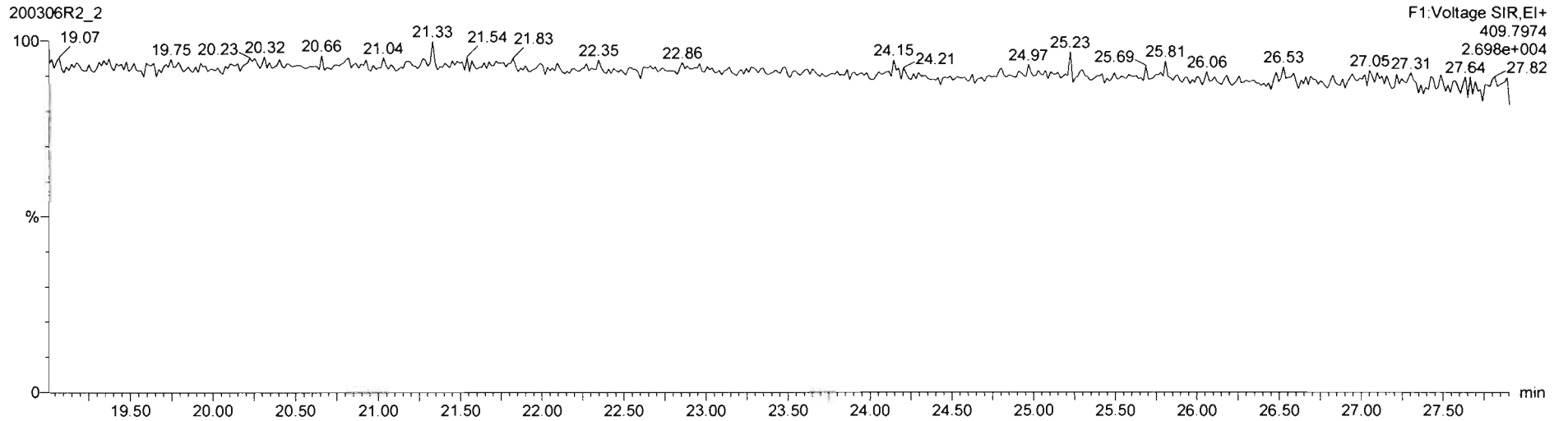
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans



DPE6



Dataset: Untitled

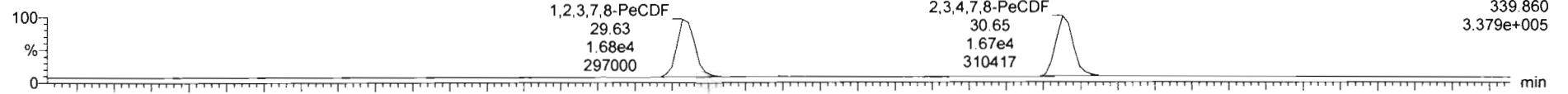
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

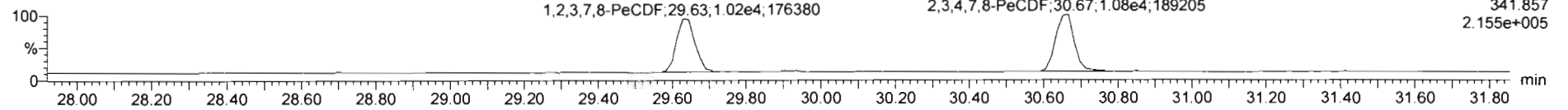
Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1,2,3,7,8-PeCDF

200306R2_2

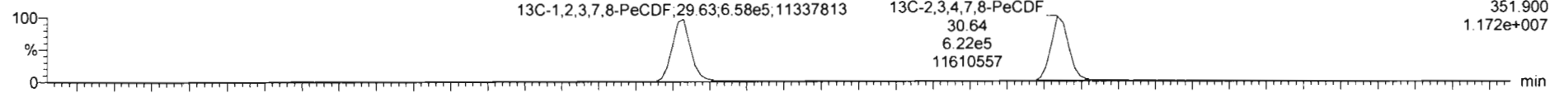


200306R2_2

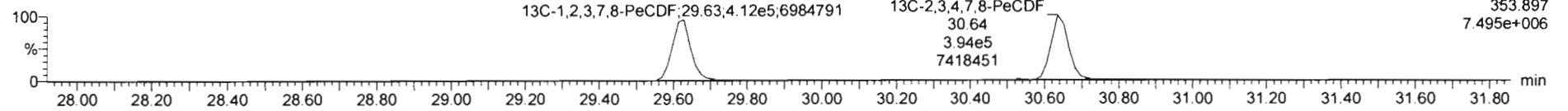


13C-1,2,3,7,8-PeCDF

200306R2_2

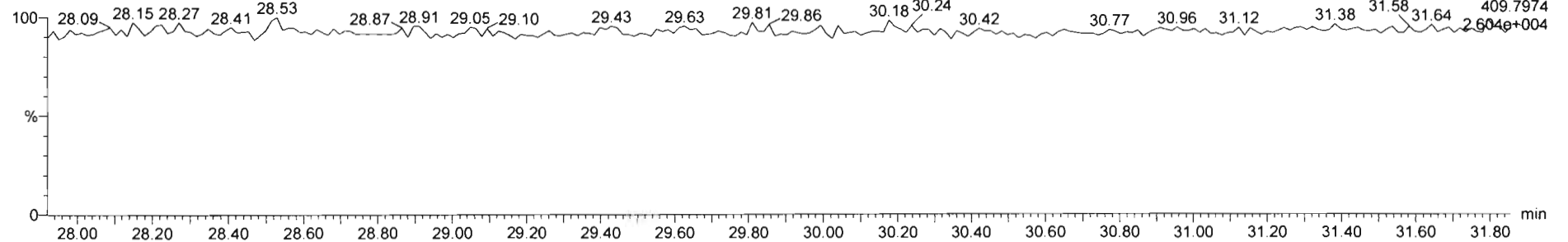


200306R2_2



DPE2

200306R2_2



Dataset: Untitled

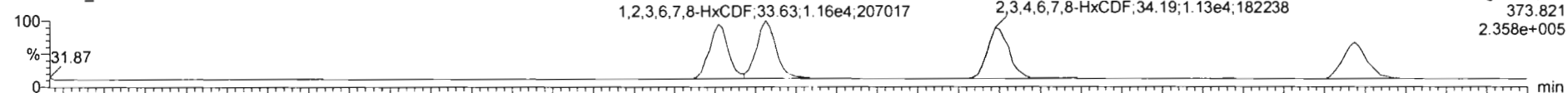
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

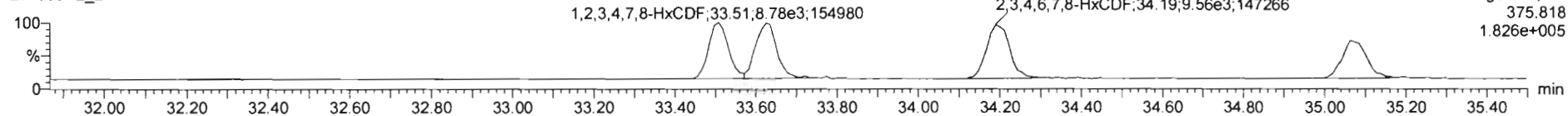
Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200306R2_2

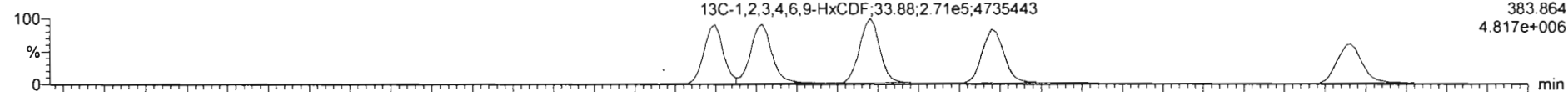


200306R2_2

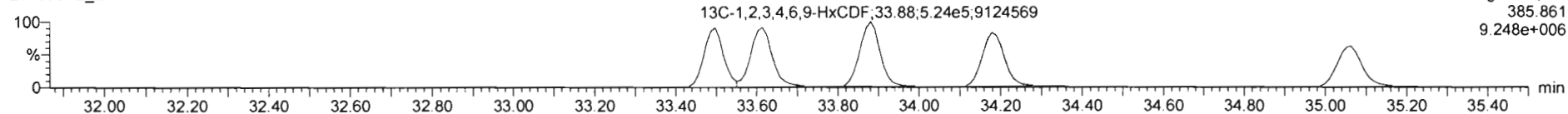


13C-1,2,3,4,7,8-HxCDF

200306R2_2

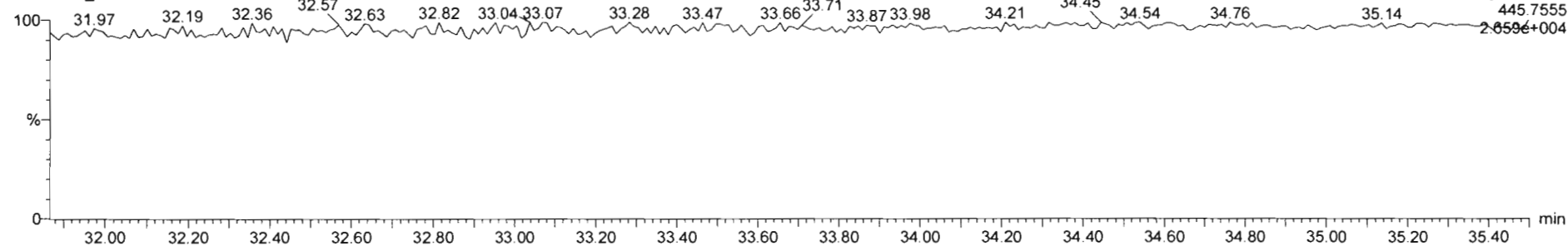


200306R2_2



DPE3

200306R2_2



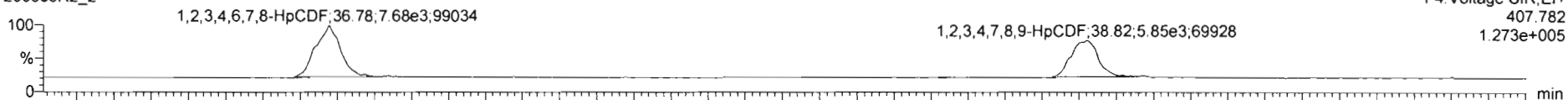
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

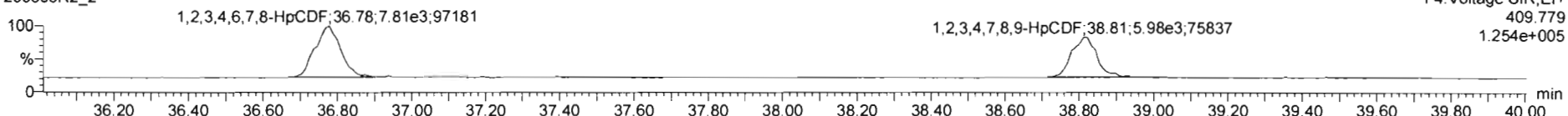
1,2,3,4,6,7,8-HpCDF

200306R2_2



F4: Voltage SIR, EI+
407.782
1.273e+005

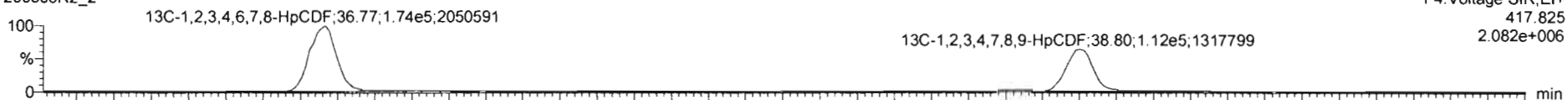
200306R2_2



F4: Voltage SIR, EI+
409.779
1.254e+005

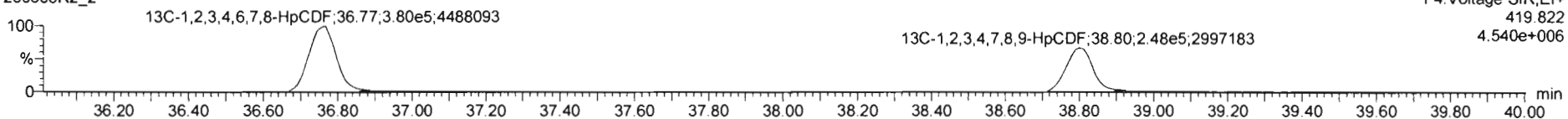
13C-1,2,3,4,6,7,8-HpCDF

200306R2_2



F4: Voltage SIR, EI+
417.825
2.082e+006

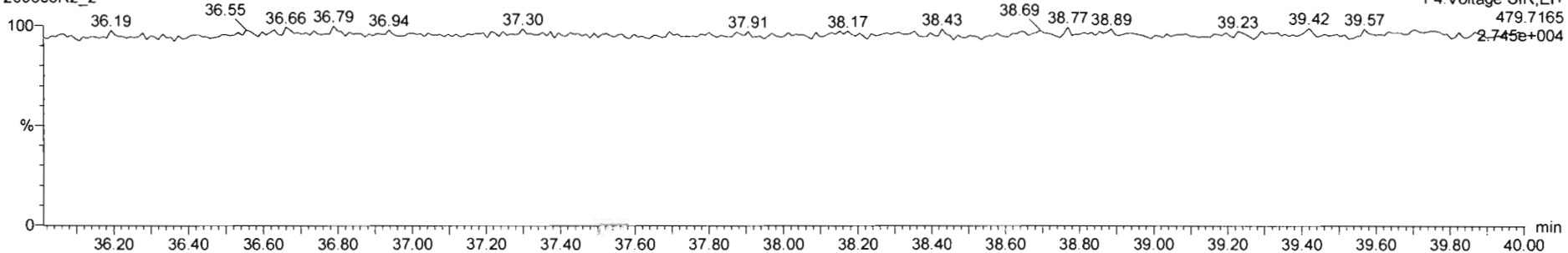
200306R2_2



F4: Voltage SIR, EI+
419.822
4.540e+006

DPE4

200306R2_2



F4: Voltage SIR, EI+
479.7165
2.745e+004

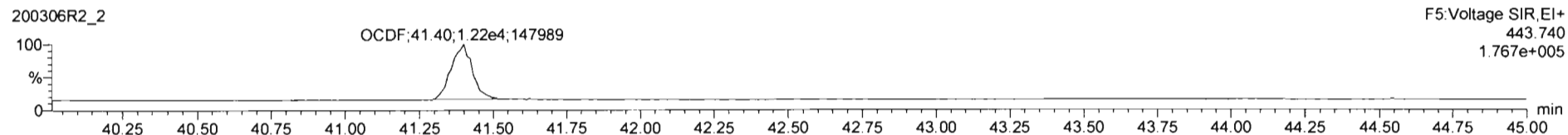
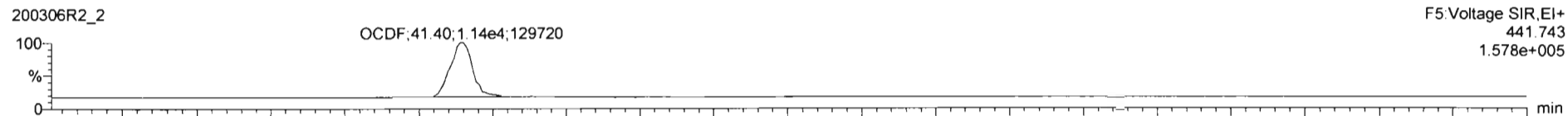
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

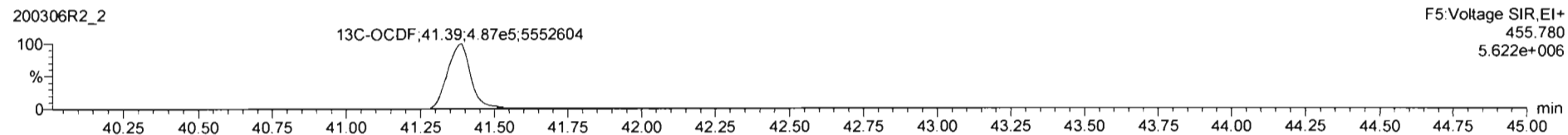
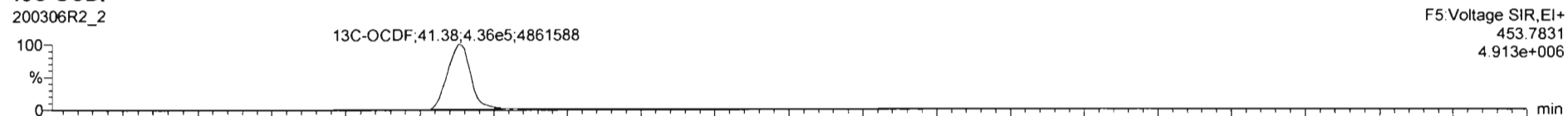
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

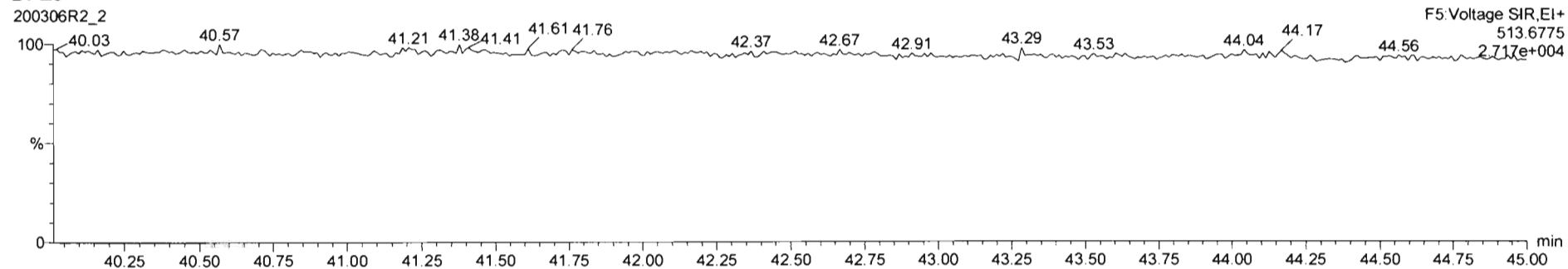
OCDF



13C-OCDF



DPE5

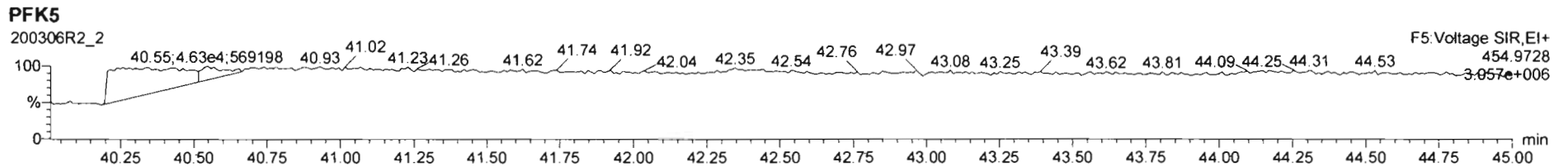
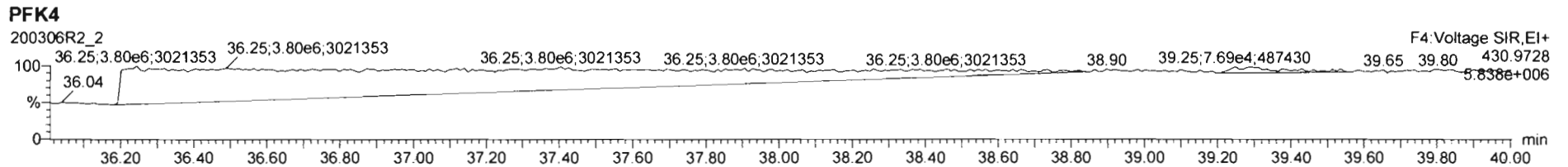
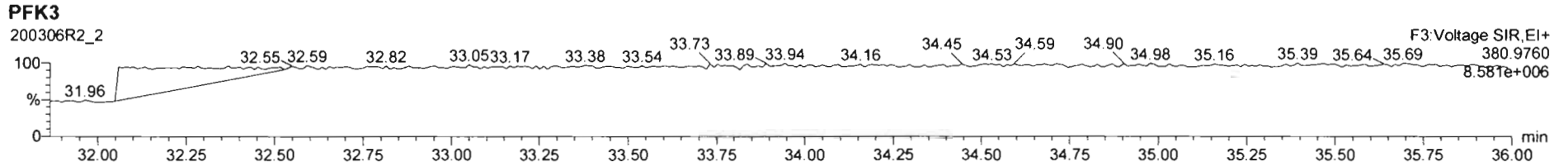
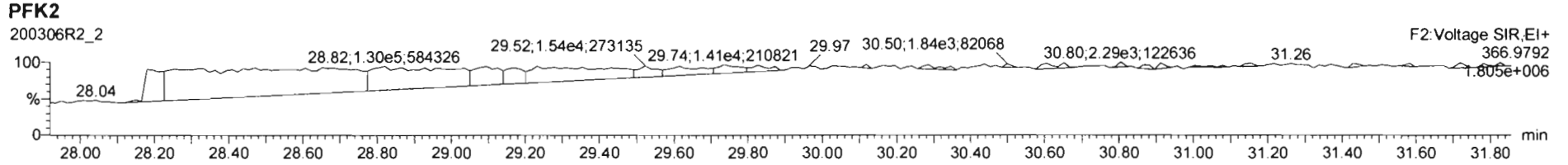
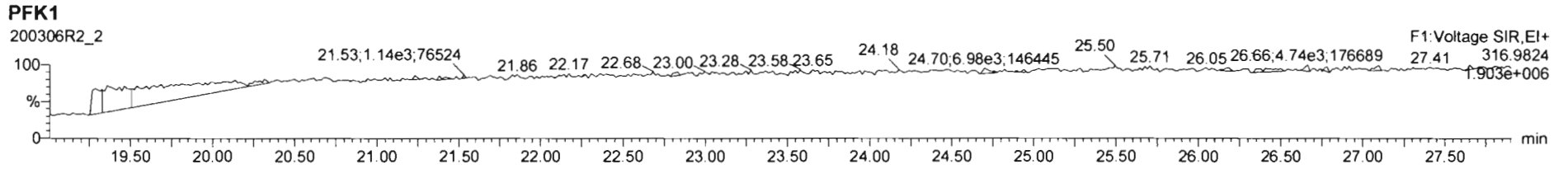


Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



Dataset: Untitled

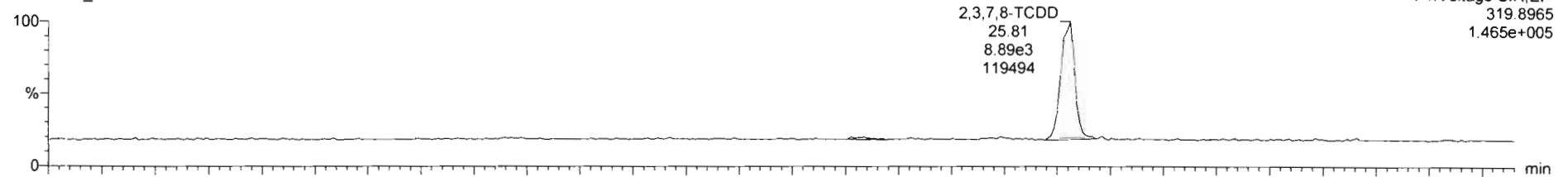
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

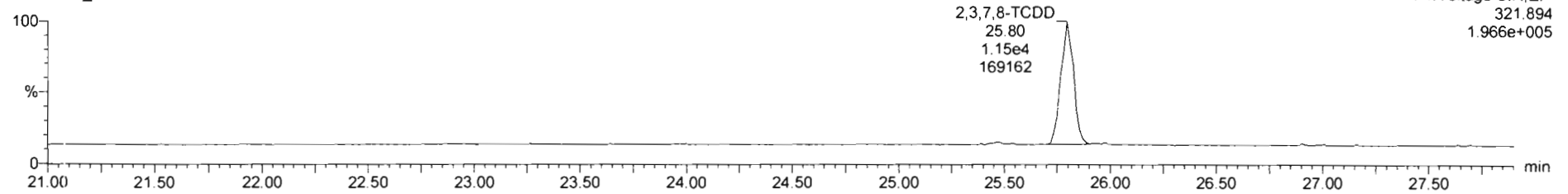
Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

2,3,7,8-TCDD

200306R2_3

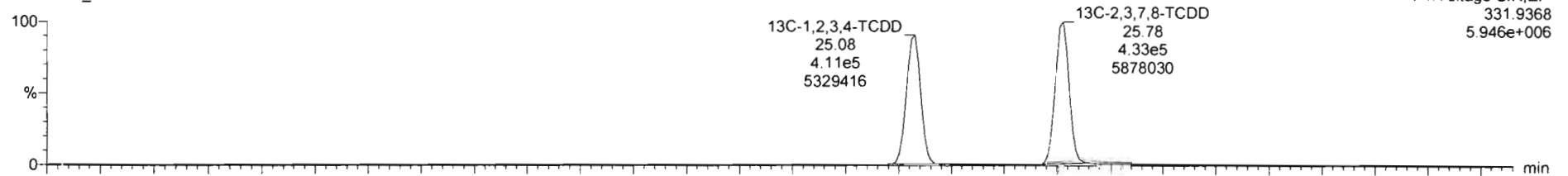


200306R2_3

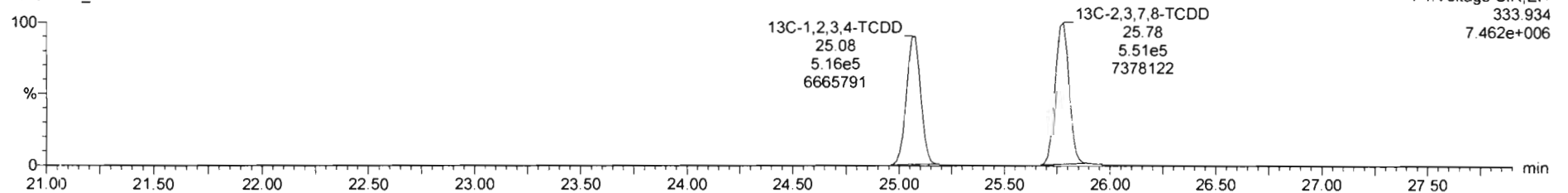


13C-2,3,7,8-TCDD

200306R2_3



200306R2_3



Dataset: Untitled

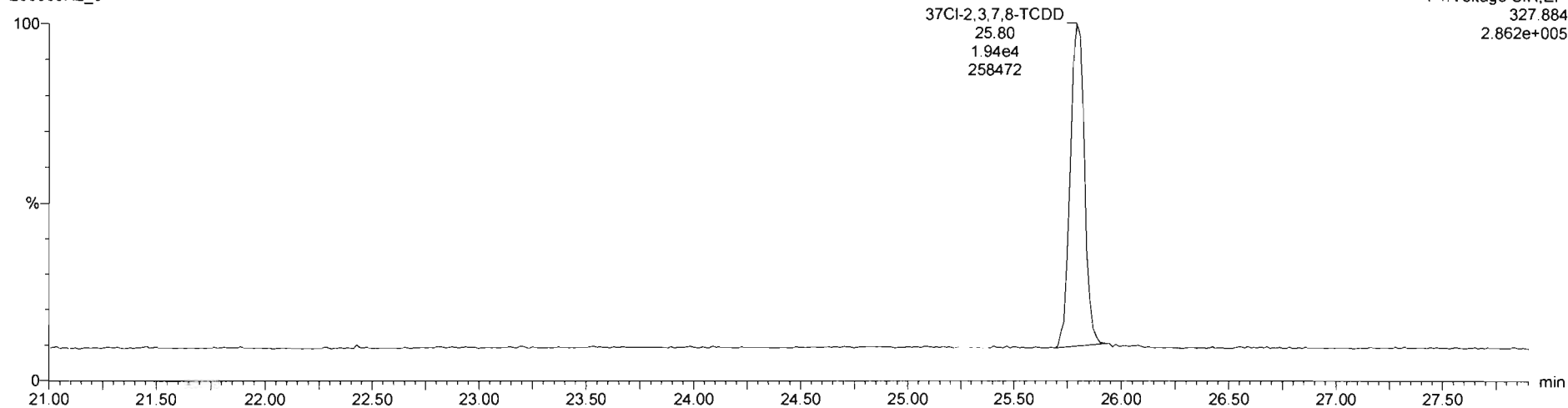
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

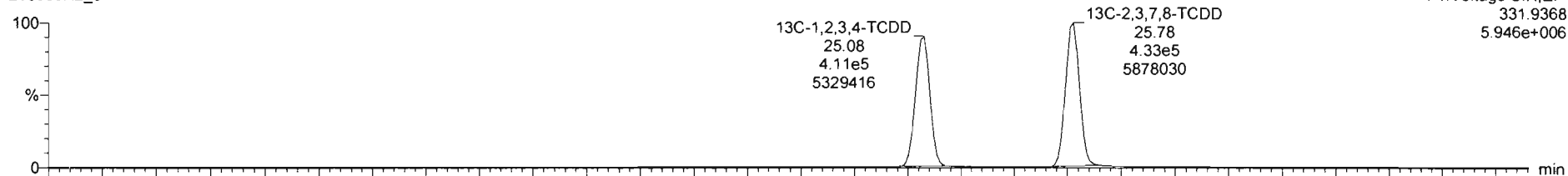
37Cl-2,3,7,8-TCDD

200306R2_3

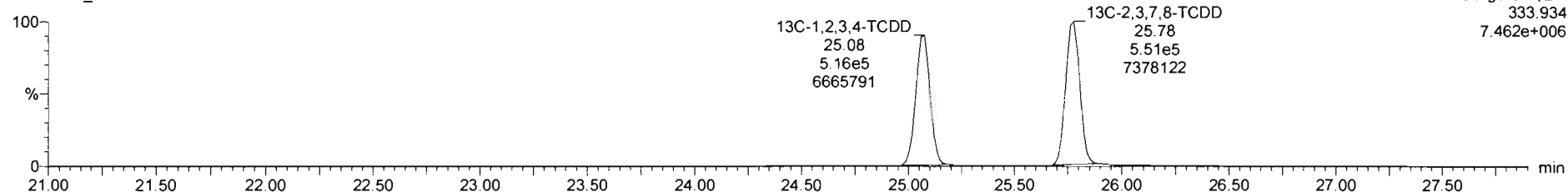


13C-1,2,3,4-TCDD

200306R2_3



200306R2_3



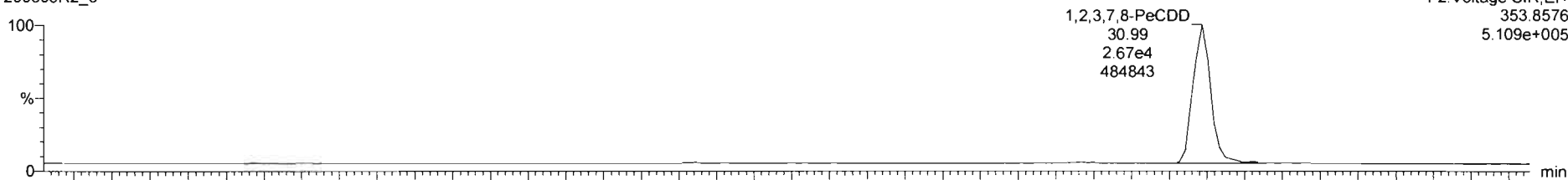
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

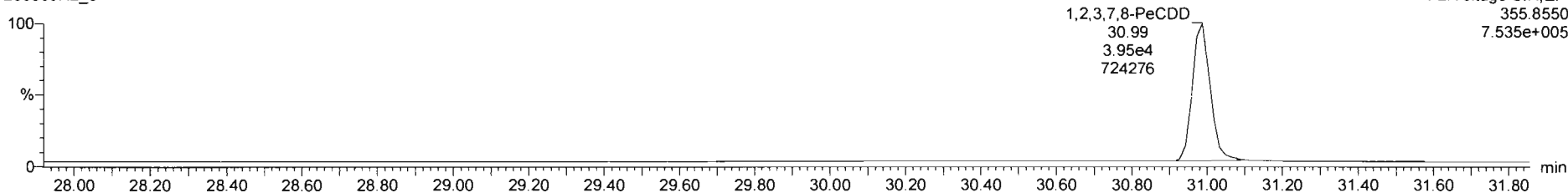
Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1,2,3,7,8-PeCDD

200306R2_3



200306R2_3

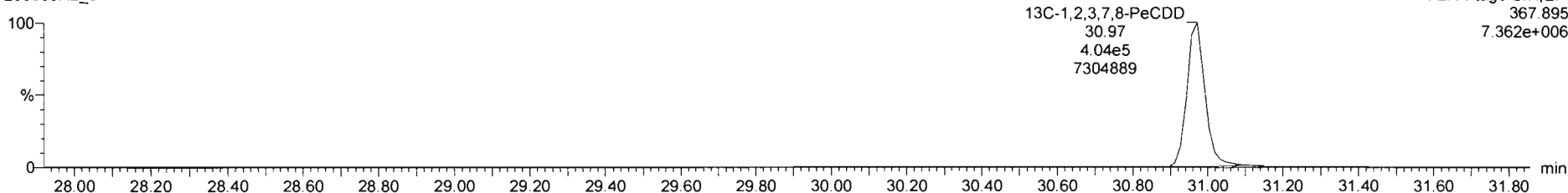


13C-1,2,3,7,8-PeCDD

200306R2_3



200306R2_3



Dataset: Untitled

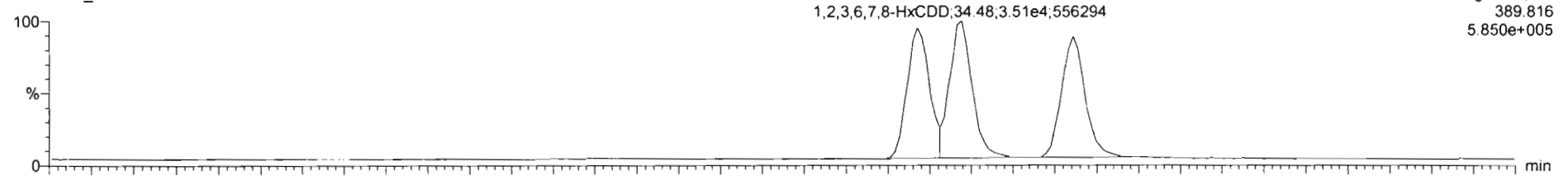
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

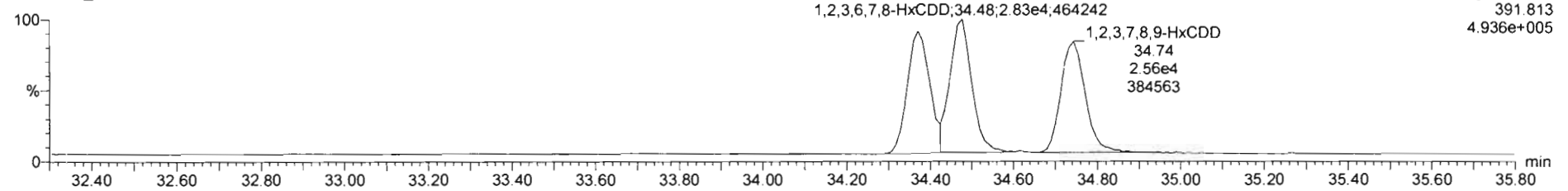
1,2,3,4,7,8-HxCDD

200306R2_3



F3: Voltage SIR, EI+
389.816
5.850e+005

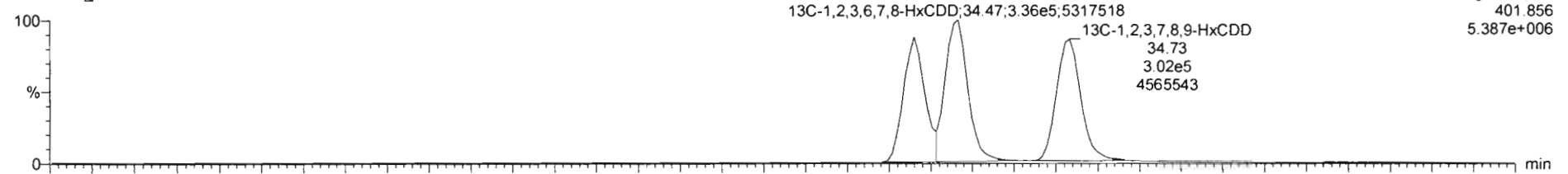
200306R2_3



F3: Voltage SIR, EI+
391.813
4.936e+005

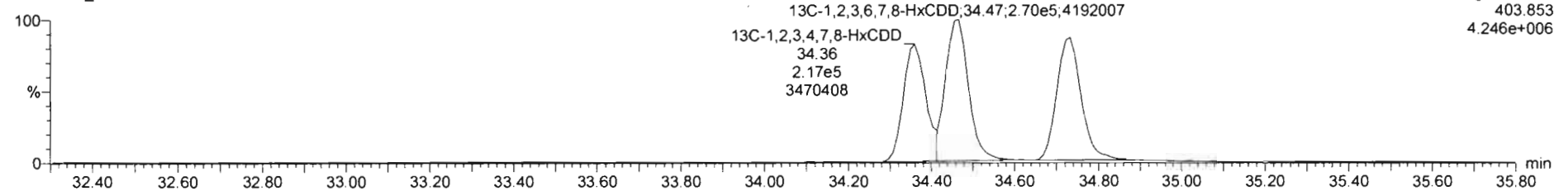
13C-1,2,3,4,7,8-HxCDD

200306R2_3



F3: Voltage SIR, EI+
401.856
5.387e+006

200306R2_3



F3: Voltage SIR, EI+
403.853
4.246e+006

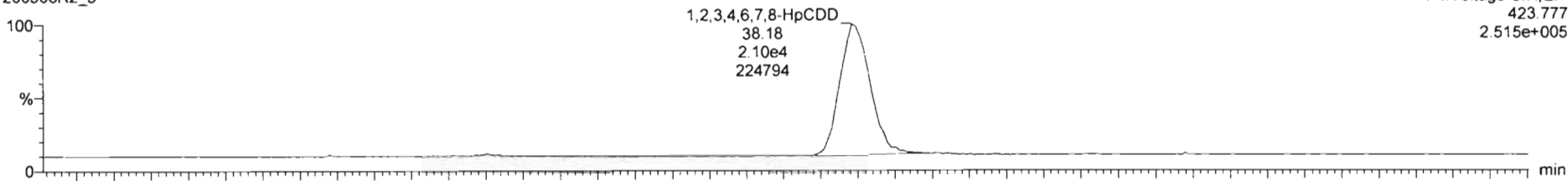
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

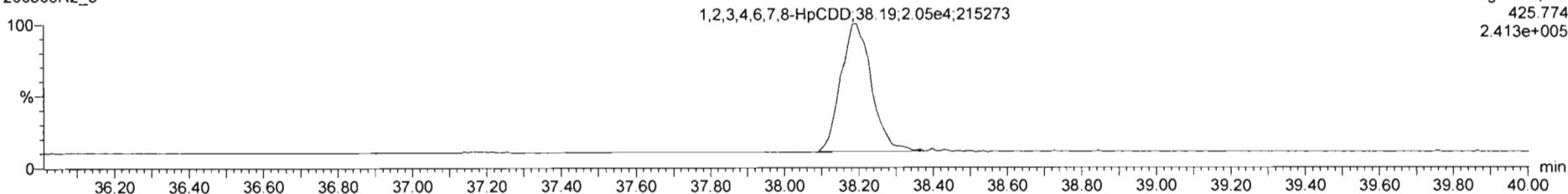
1,2,3,4,6,7,8-HpCDD

200306R2_3



F4: Voltage SIR, EI+
423.777
2.515e+005

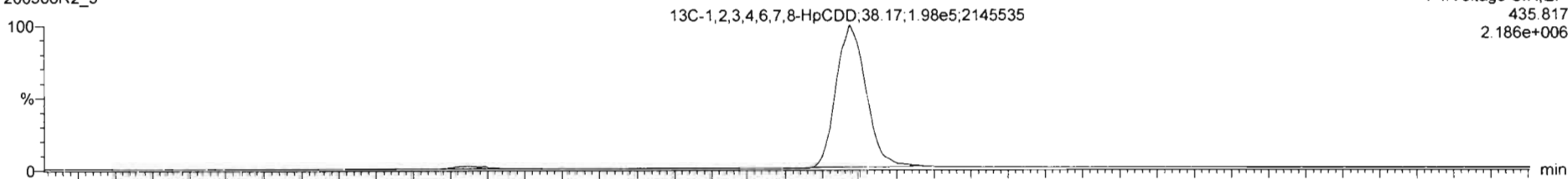
200306R2_3



F4: Voltage SIR, EI+
425.774
2.413e+005

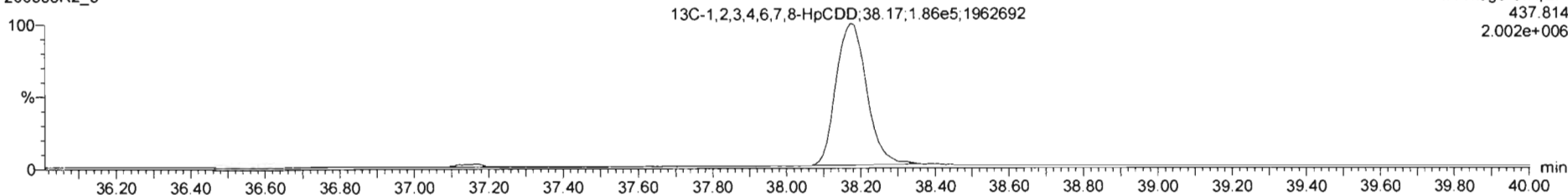
13C-1,2,3,4,6,7,8-HpCDD

200306R2_3



F4: Voltage SIR, EI+
435.817
2.186e+006

200306R2_3



F4: Voltage SIR, EI+
437.814
2.002e+006

Dataset: Untitled

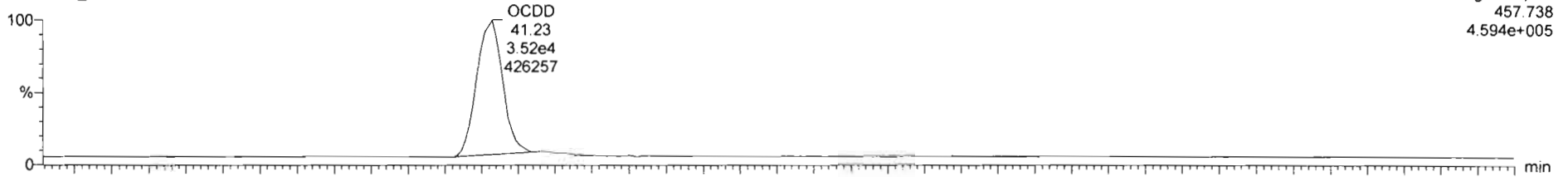
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

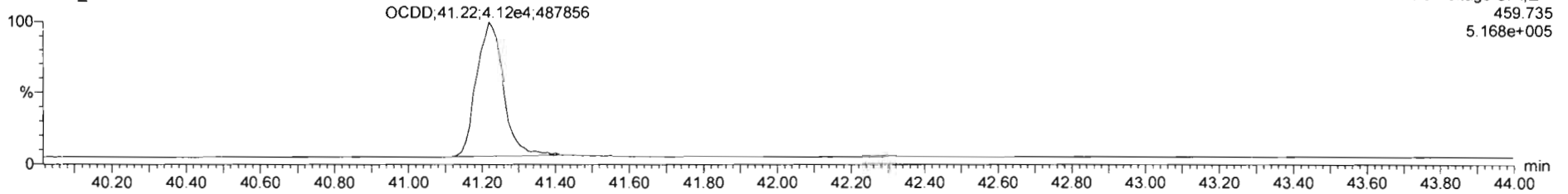
OCDD

200306R2_3



F5:Voltage SIR,EI+
457.738
4.594e+005

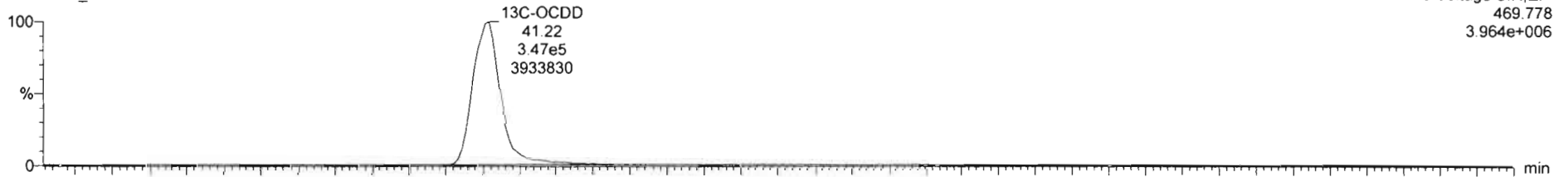
200306R2_3



F5:Voltage SIR,EI+
459.735
5.168e+005

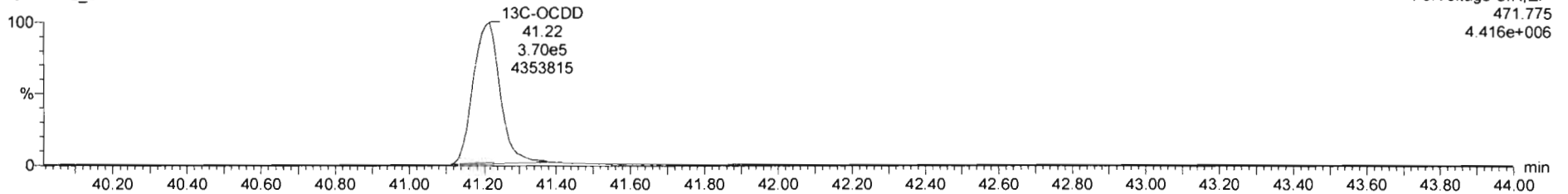
13C-OCDD

200306R2_3



F5:Voltage SIR,EI+
469.778
3.964e+006

200306R2_3



F5:Voltage SIR,EI+
471.775
4.416e+006

Dataset: Untitled

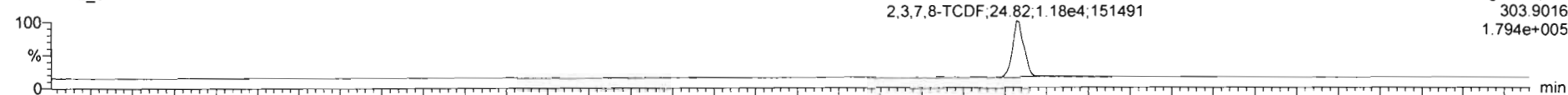
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

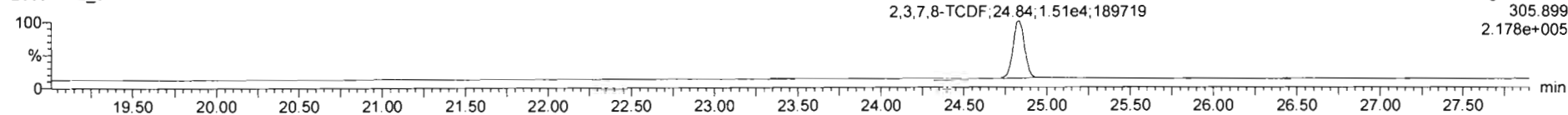
Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

2,3,7,8-TCDF

200306R2_3

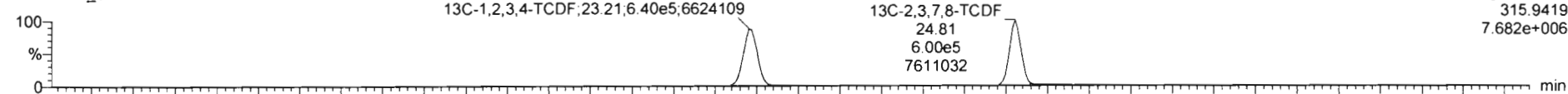


200306R2_3

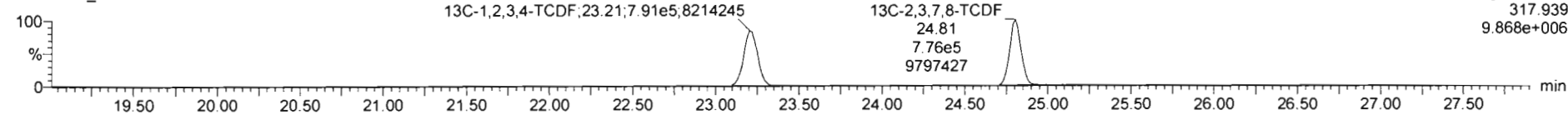


13C-2,3,7,8-TCDF

200306R2_3

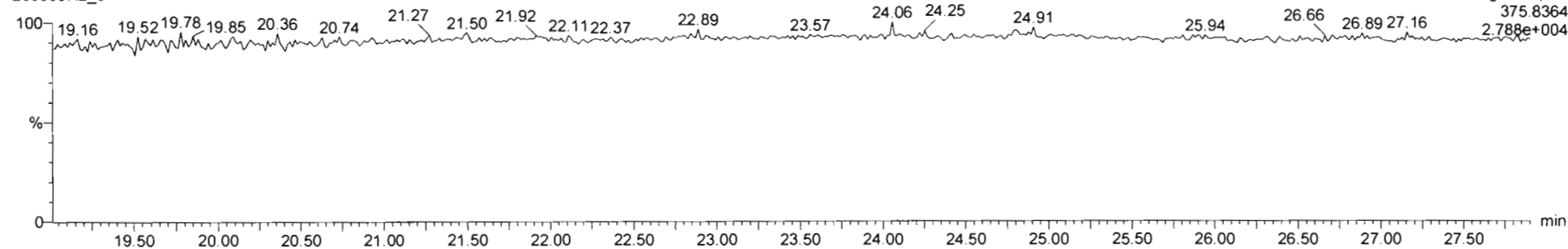


200306R2_3



DPE1

200306R2_3



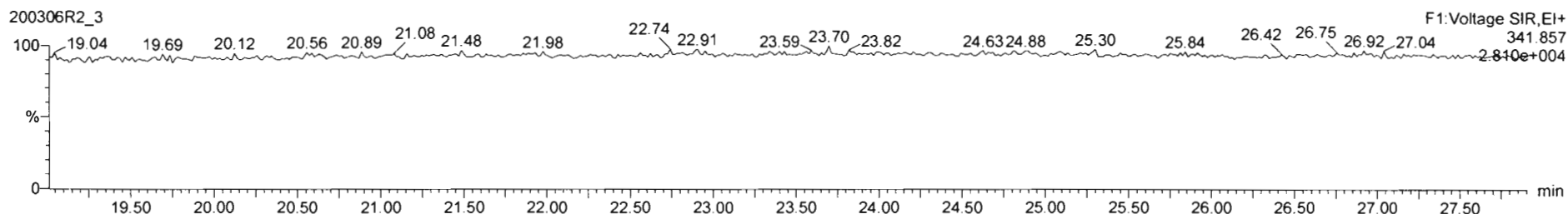
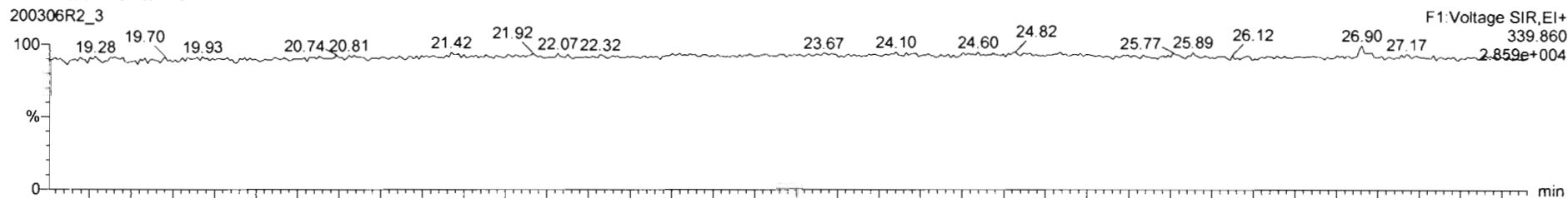
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

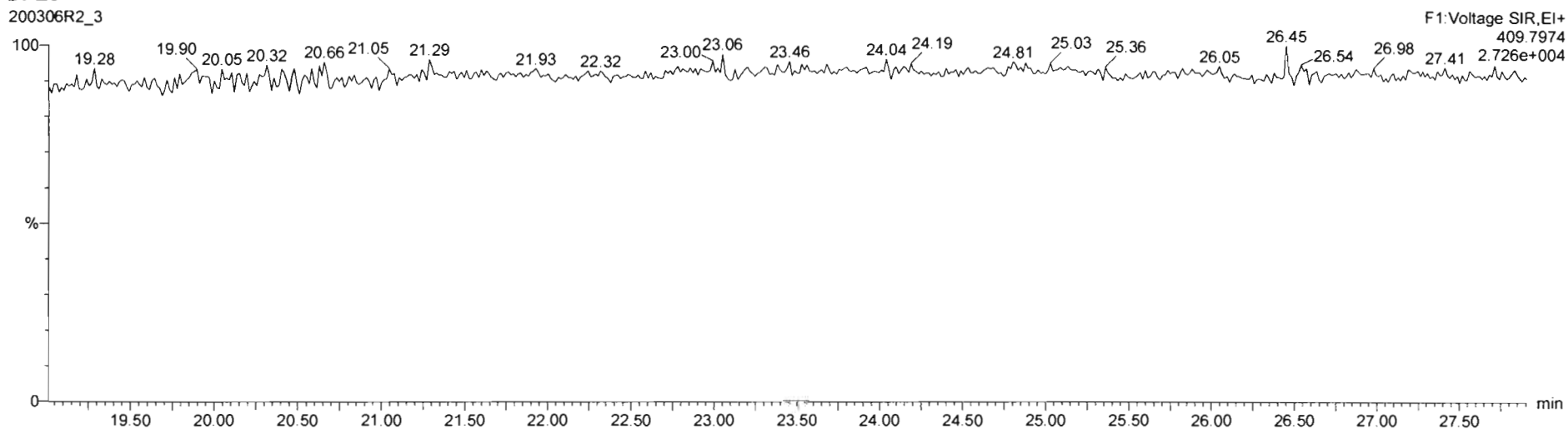
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans



DPE6



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

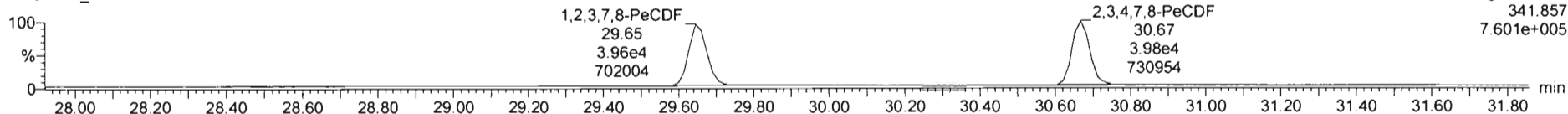
Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1,2,3,7,8-PeCDF

200306R2_3

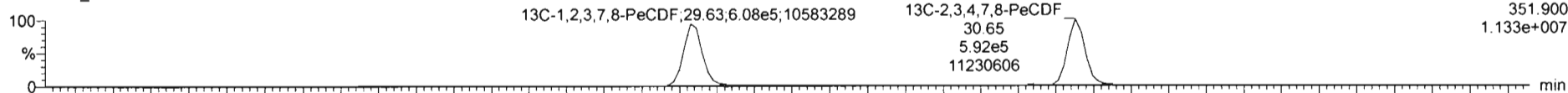


200306R2_3

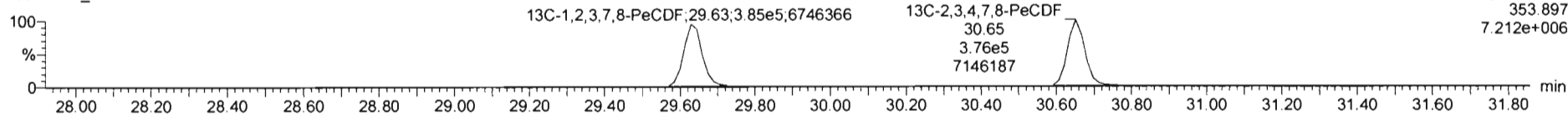


13C-1,2,3,7,8-PeCDF

200306R2_3

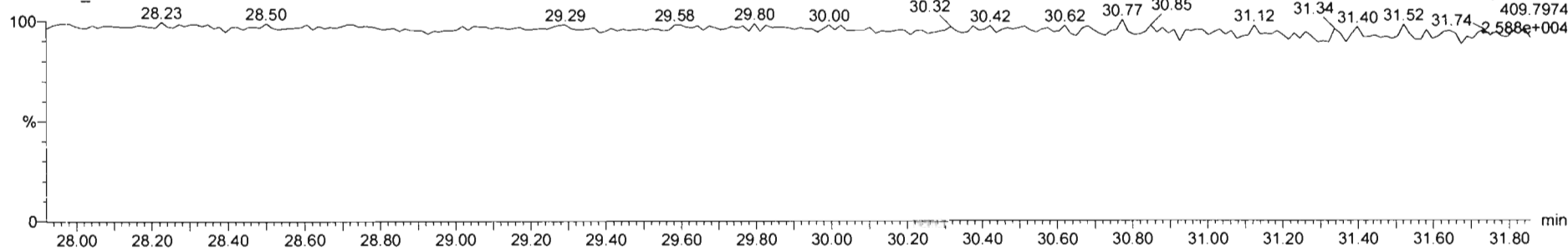


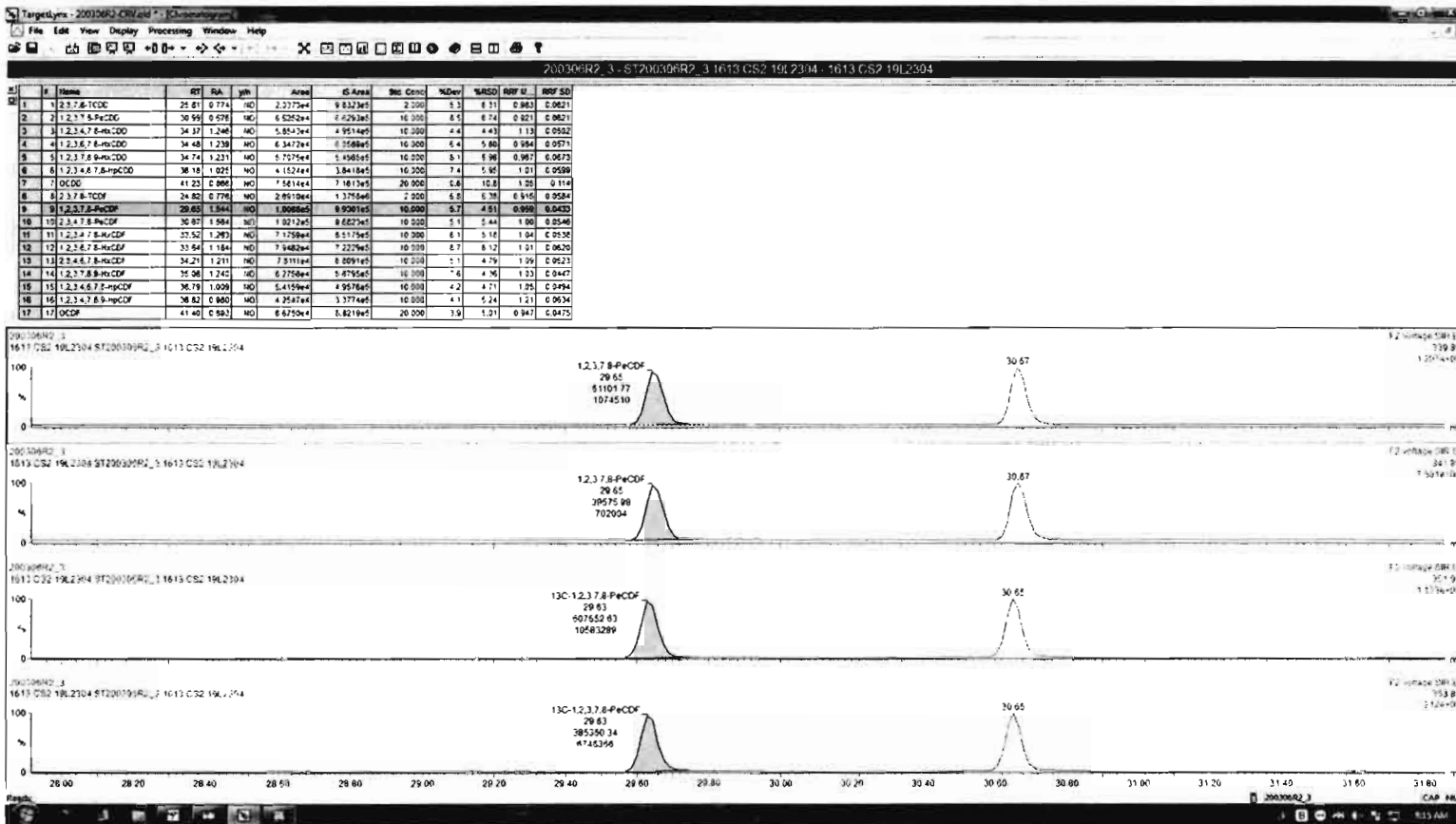
200306R2_3



DPE2

200306R2_3





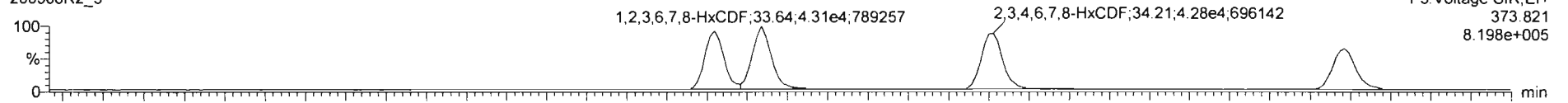
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

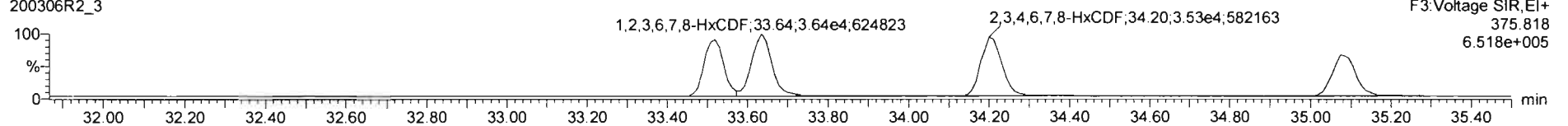
Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200306R2_3

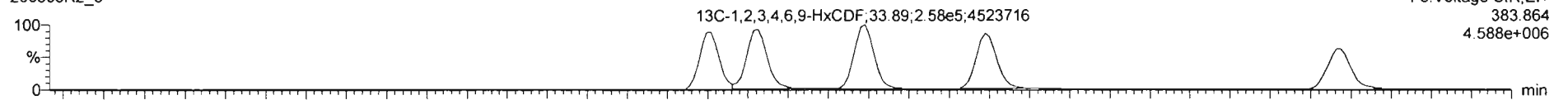


200306R2_3

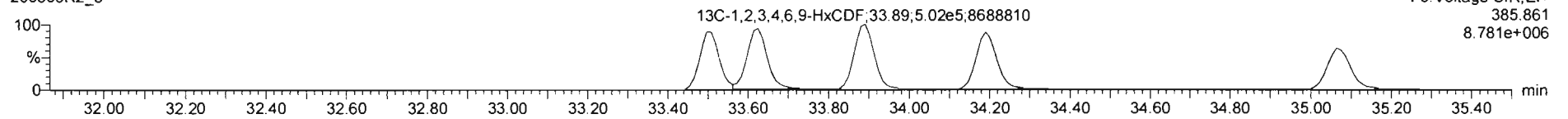


13C-1,2,3,4,7,8-HxCDF

200306R2_3

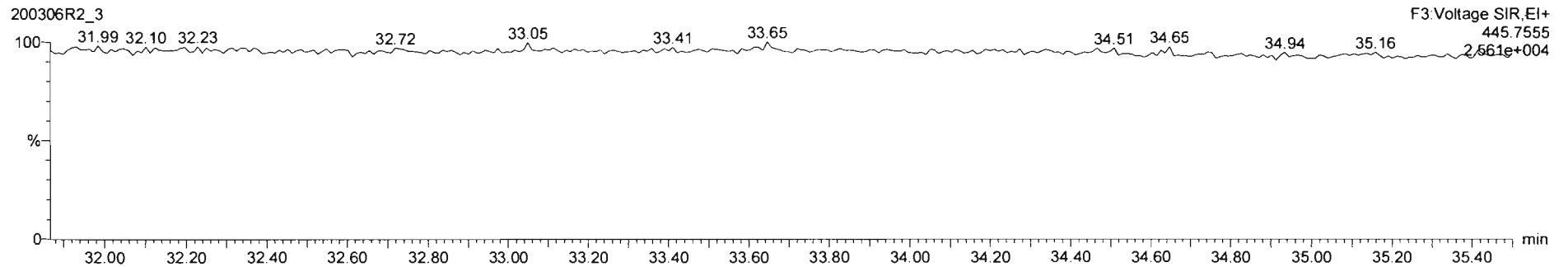


200306R2_3



DPE3

200306R2_3

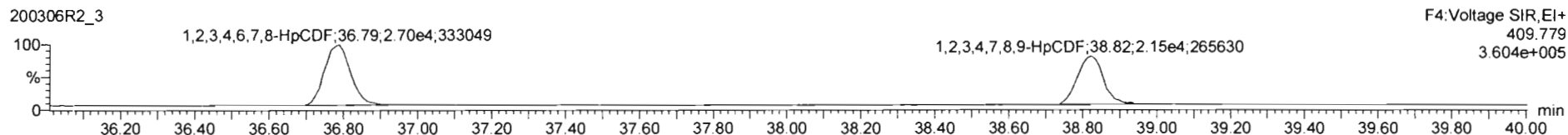
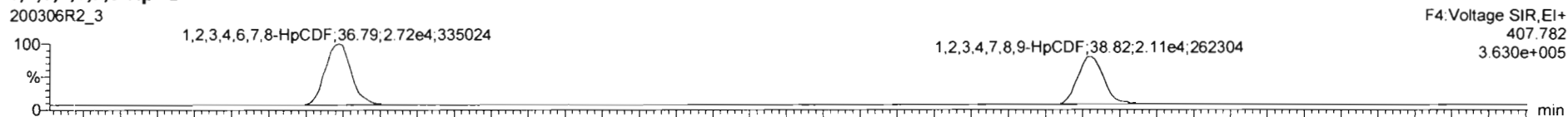


Dataset: Untitled

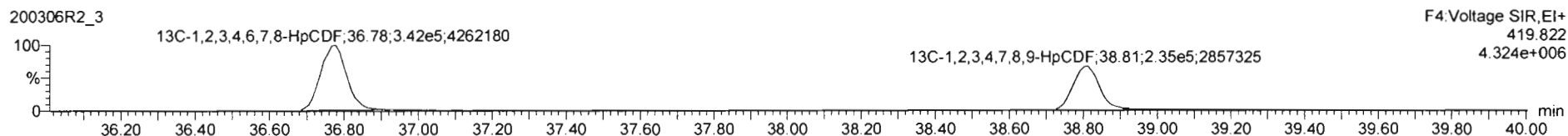
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

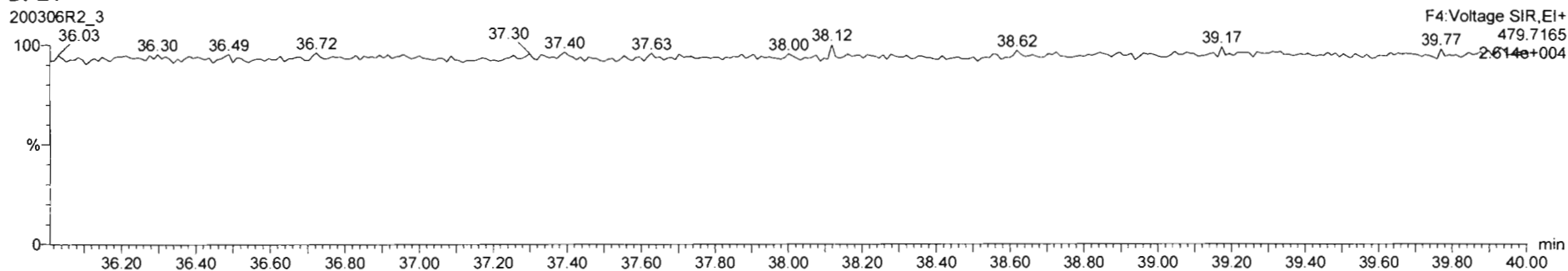
1,2,3,4,6,7,8-HpCDF



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



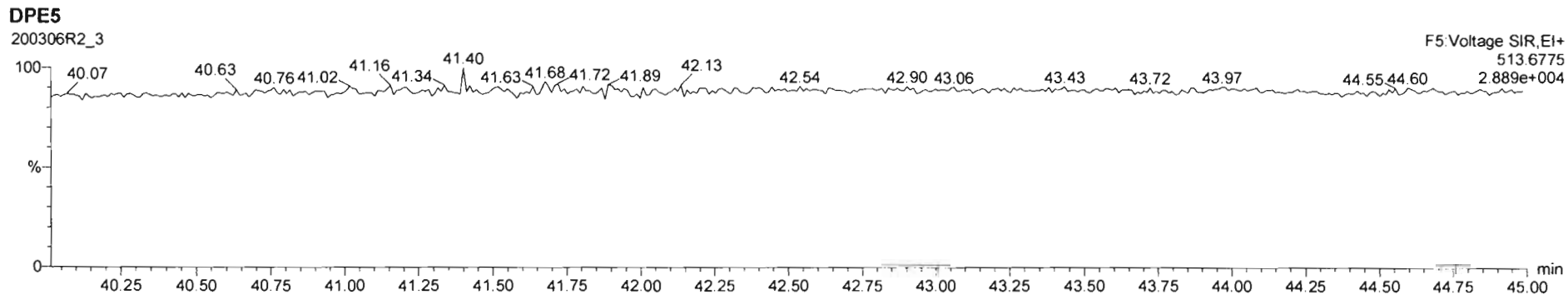
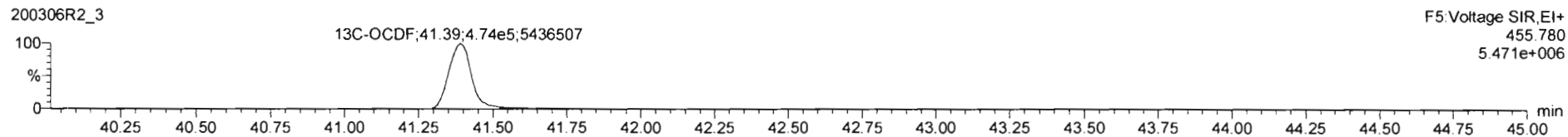
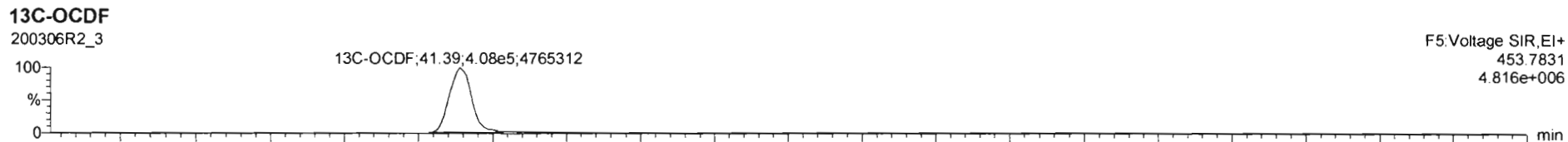
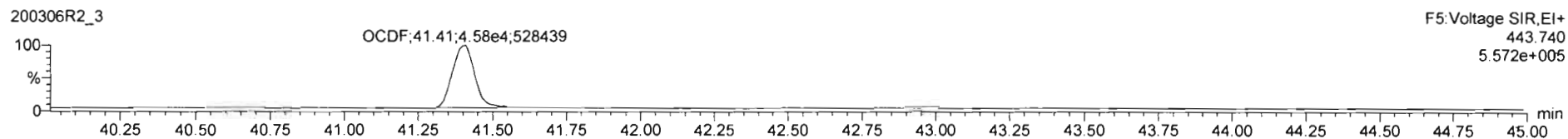
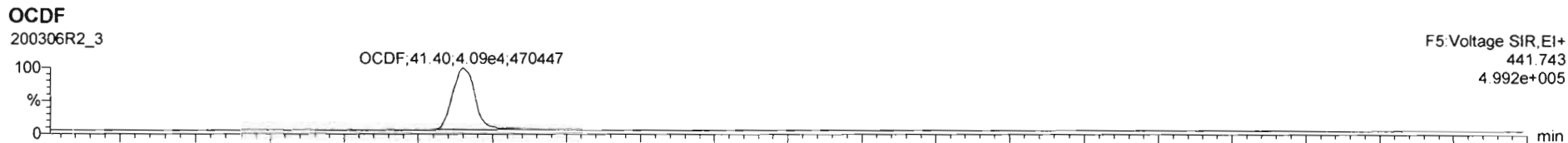
DPE4



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

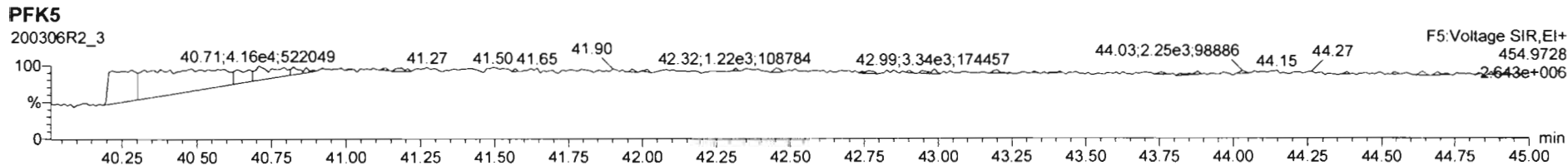
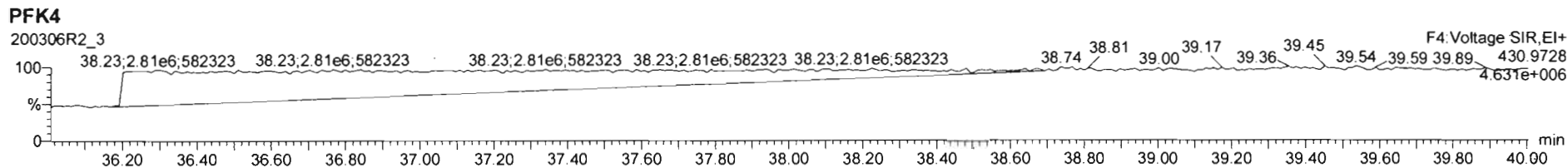
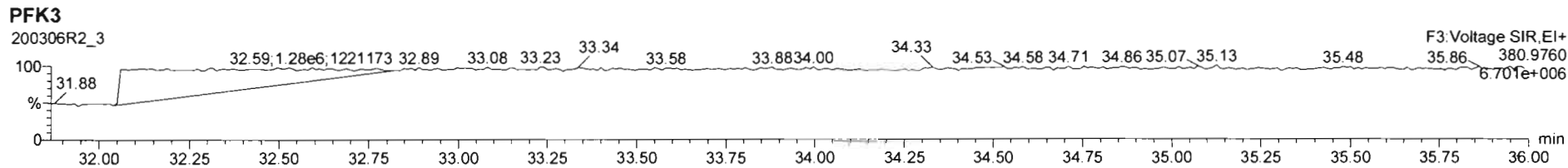
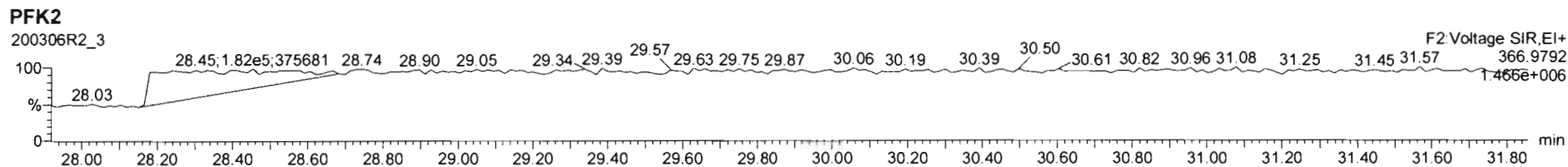
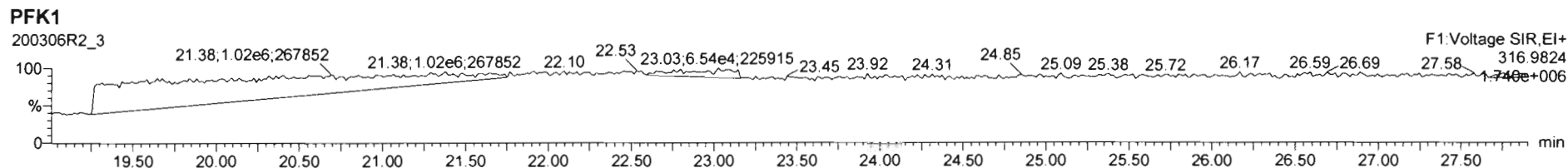


Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

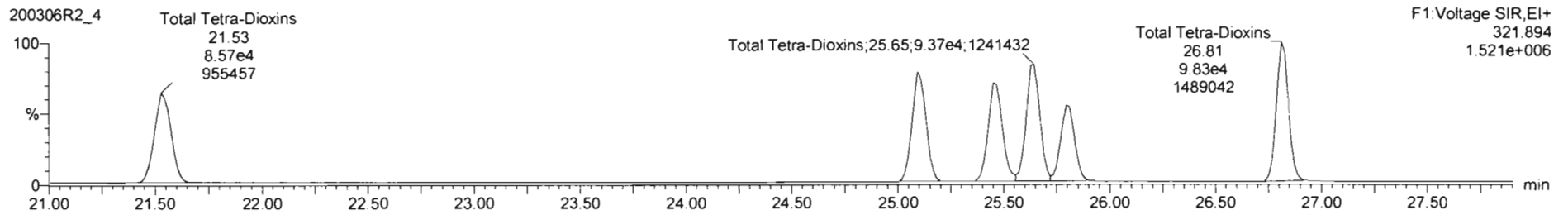
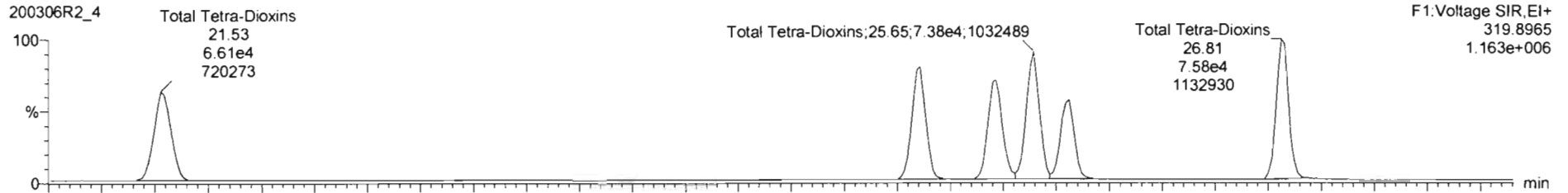


Dataset: Untitled

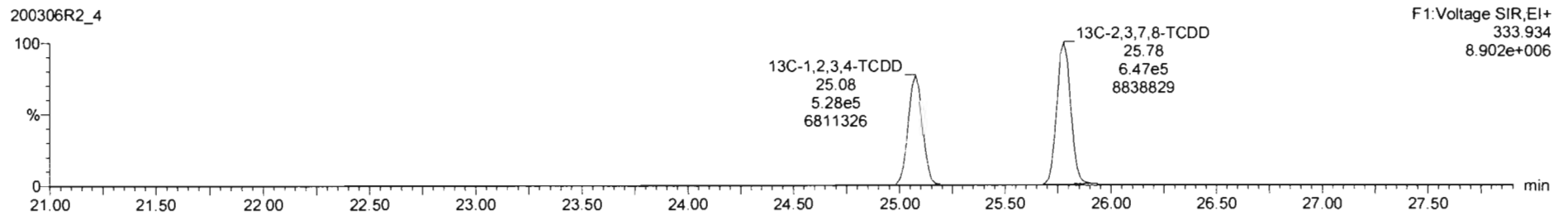
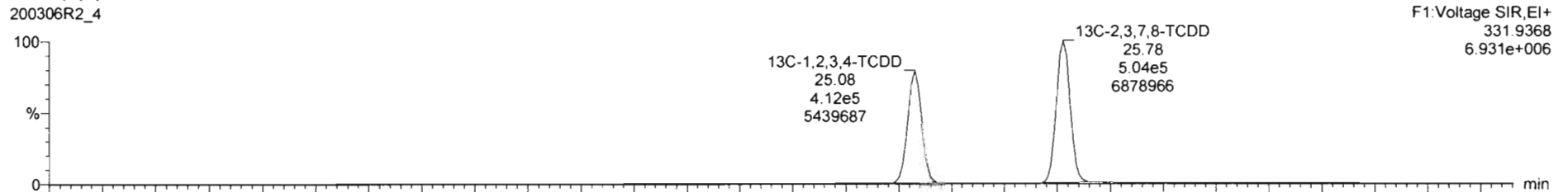
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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

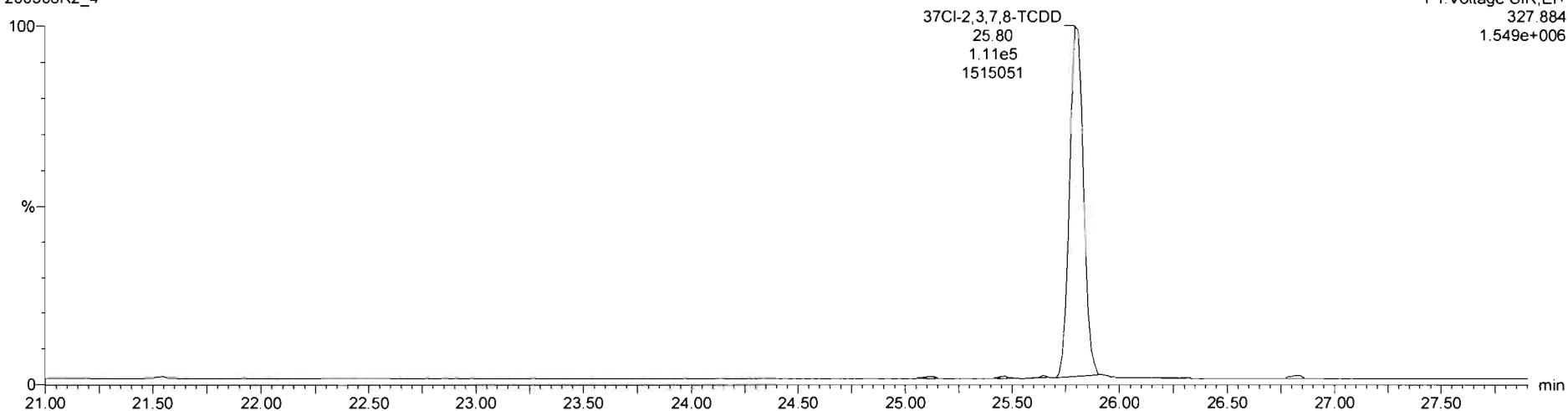


Dataset: Untitled

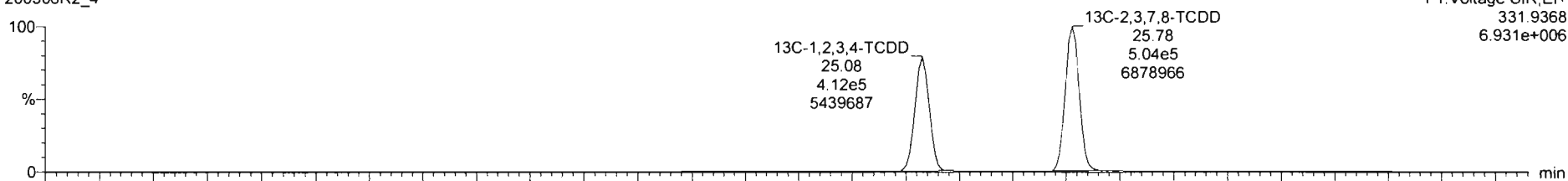
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

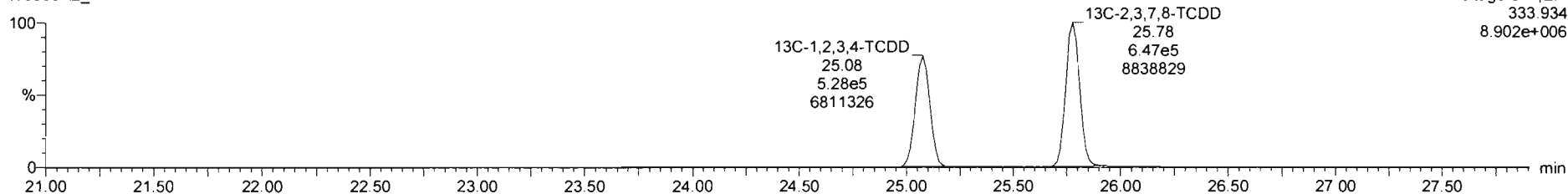
37Cl-2,3,7,8-TCDD
200306R2_4



13C-1,2,3,4-TCDD
200306R2_4



200306R2_4



Dataset: Untitled

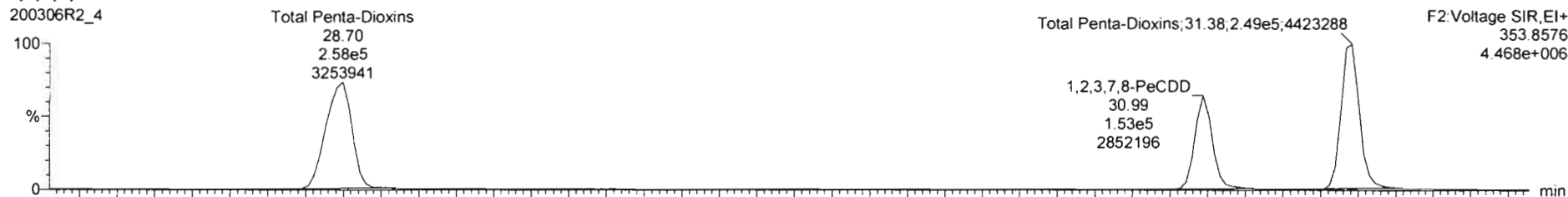
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

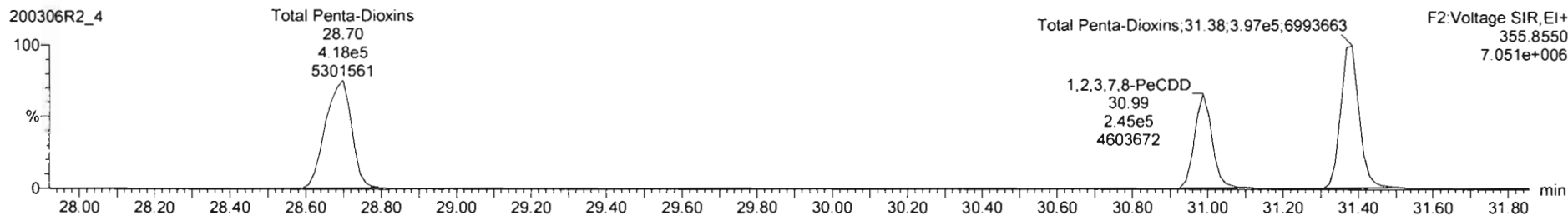
Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200306R2_4

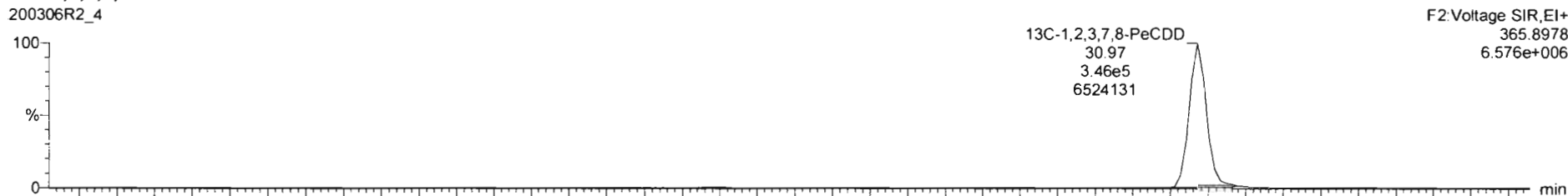


200306R2_4

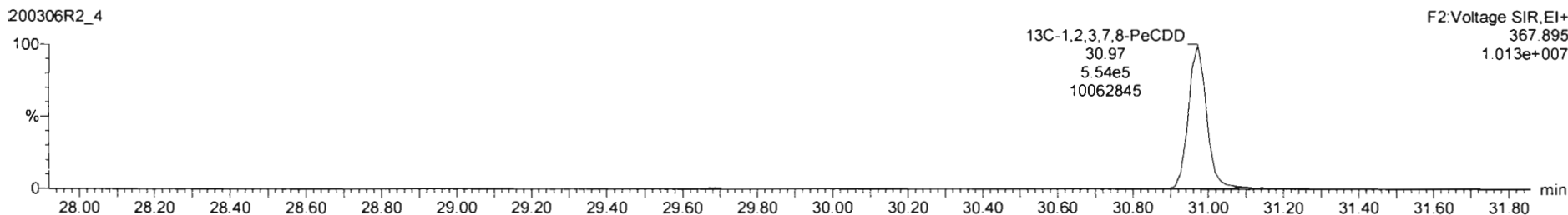


13C-1,2,3,7,8-PeCDD

200306R2_4



200306R2_4



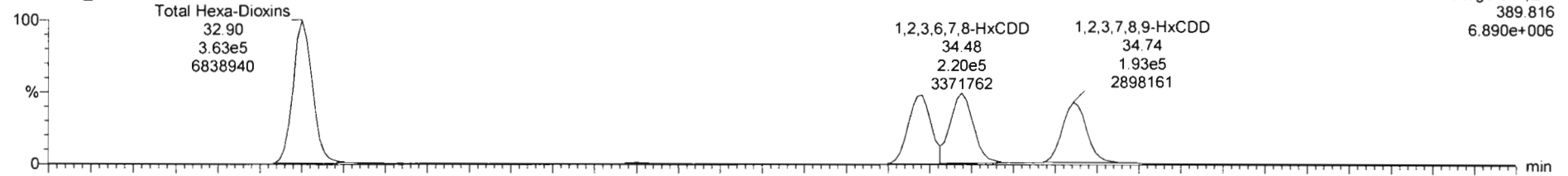
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

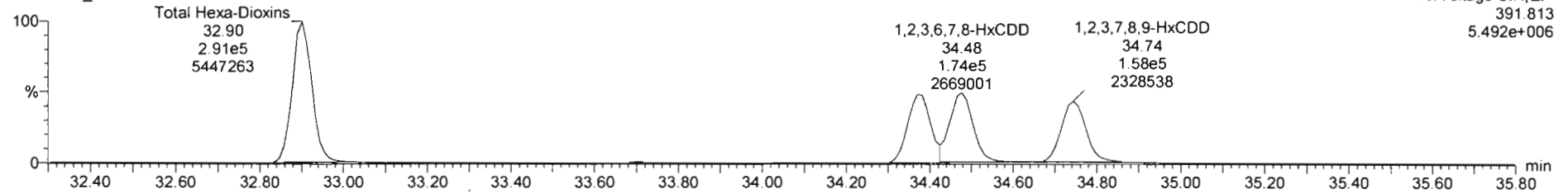
Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200306R2_4

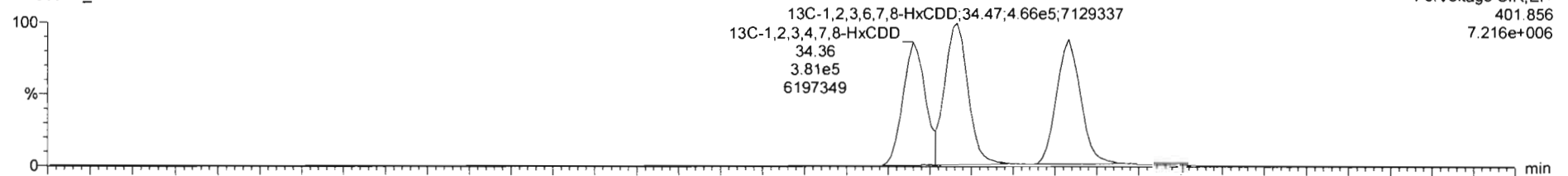


200306R2_4

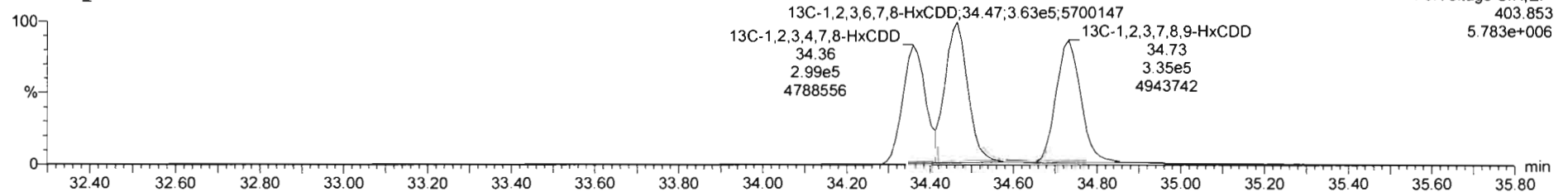


13C-1,2,3,4,7,8-HxCDD

200306R2_4



200306R2_4



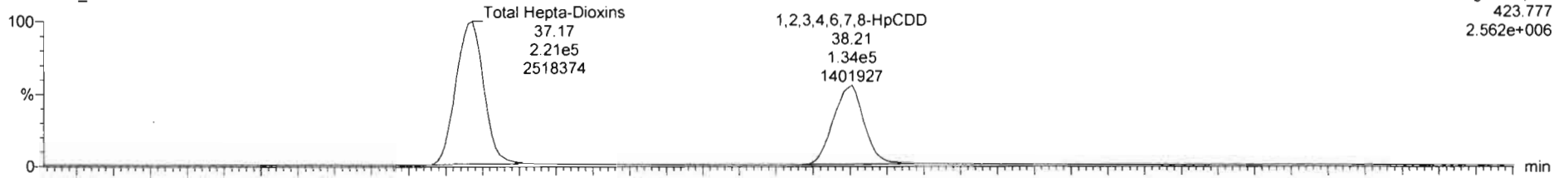
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

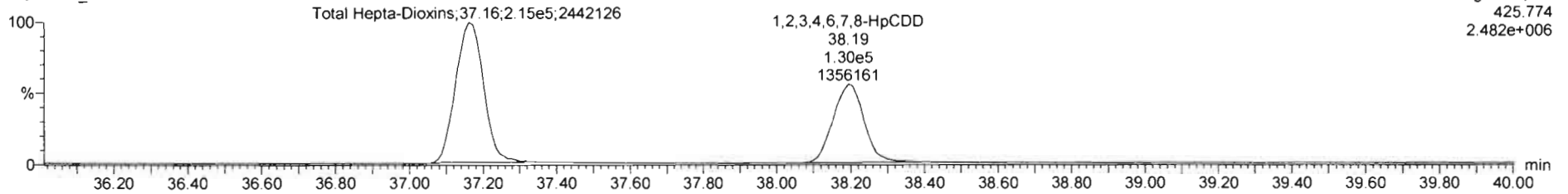
1,2,3,4,6,7,8-HpCDD

200306R2_4



F4: Voltage SIR, EI+
423.777
2.562e+006

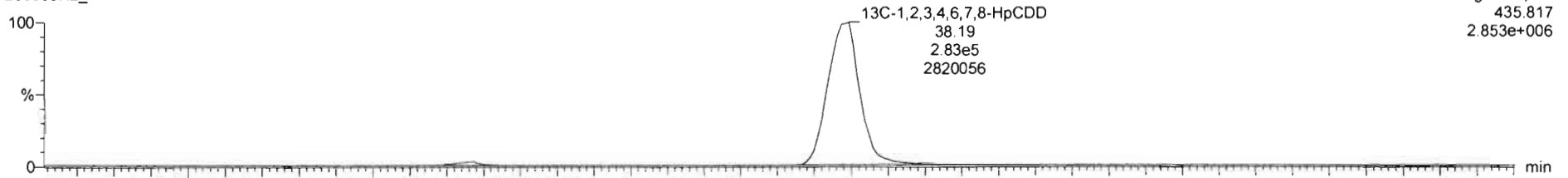
200306R2_4



F4: Voltage SIR, EI+
425.774
2.482e+006

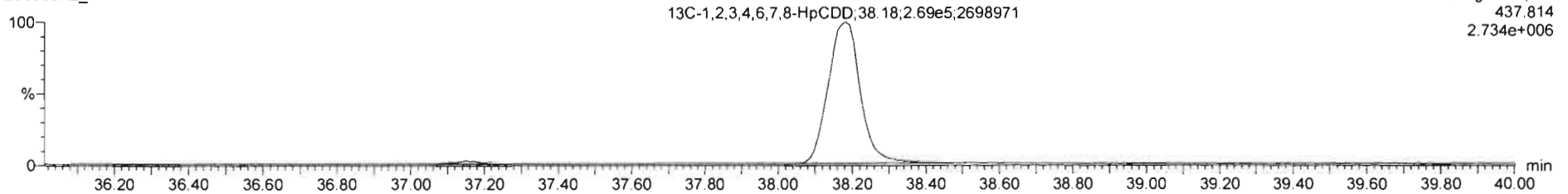
13C-1,2,3,4,6,7,8-HpCDD

200306R2_4



F4: Voltage SIR, EI+
435.817
2.853e+006

200306R2_4

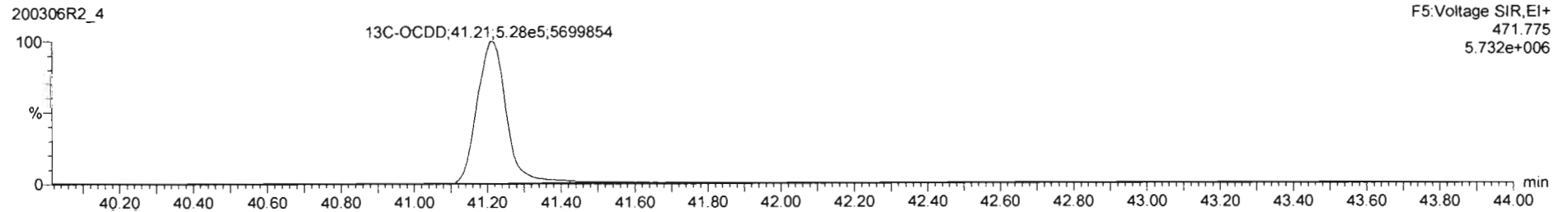
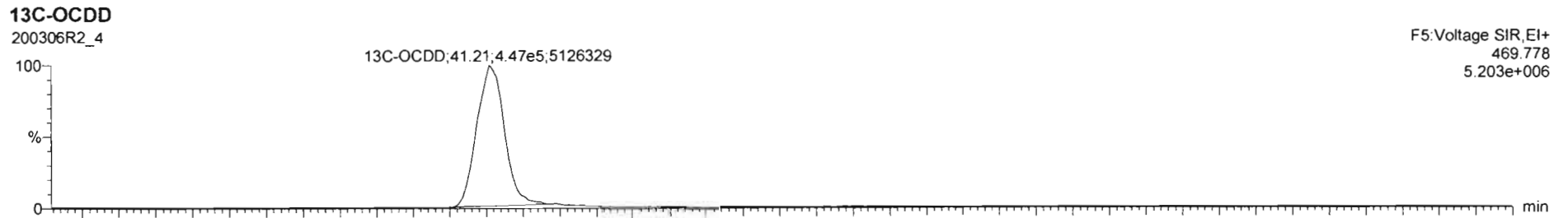
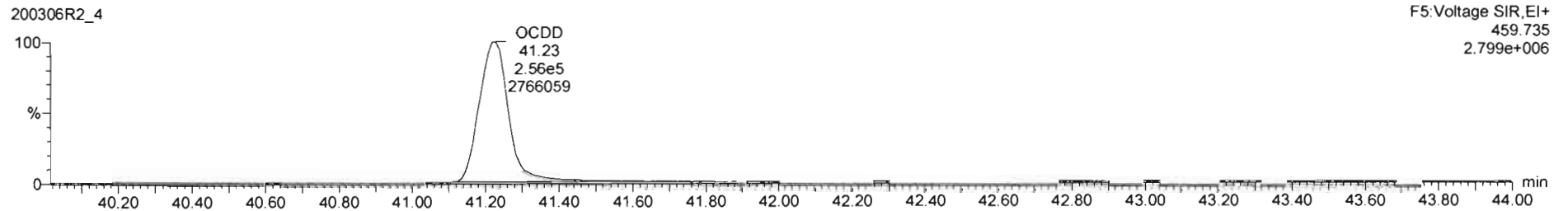
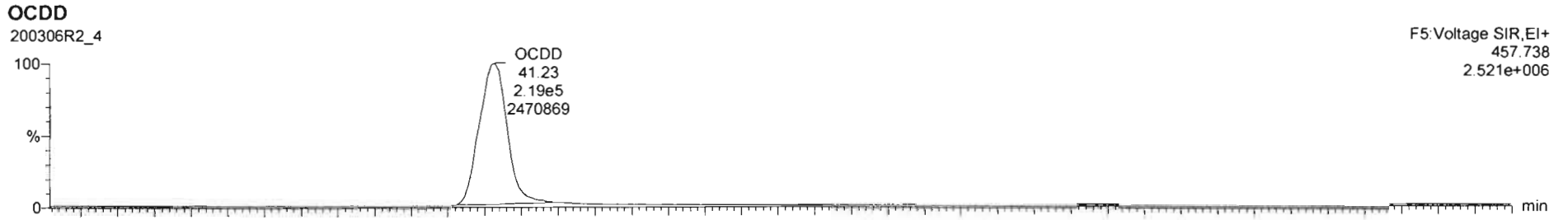


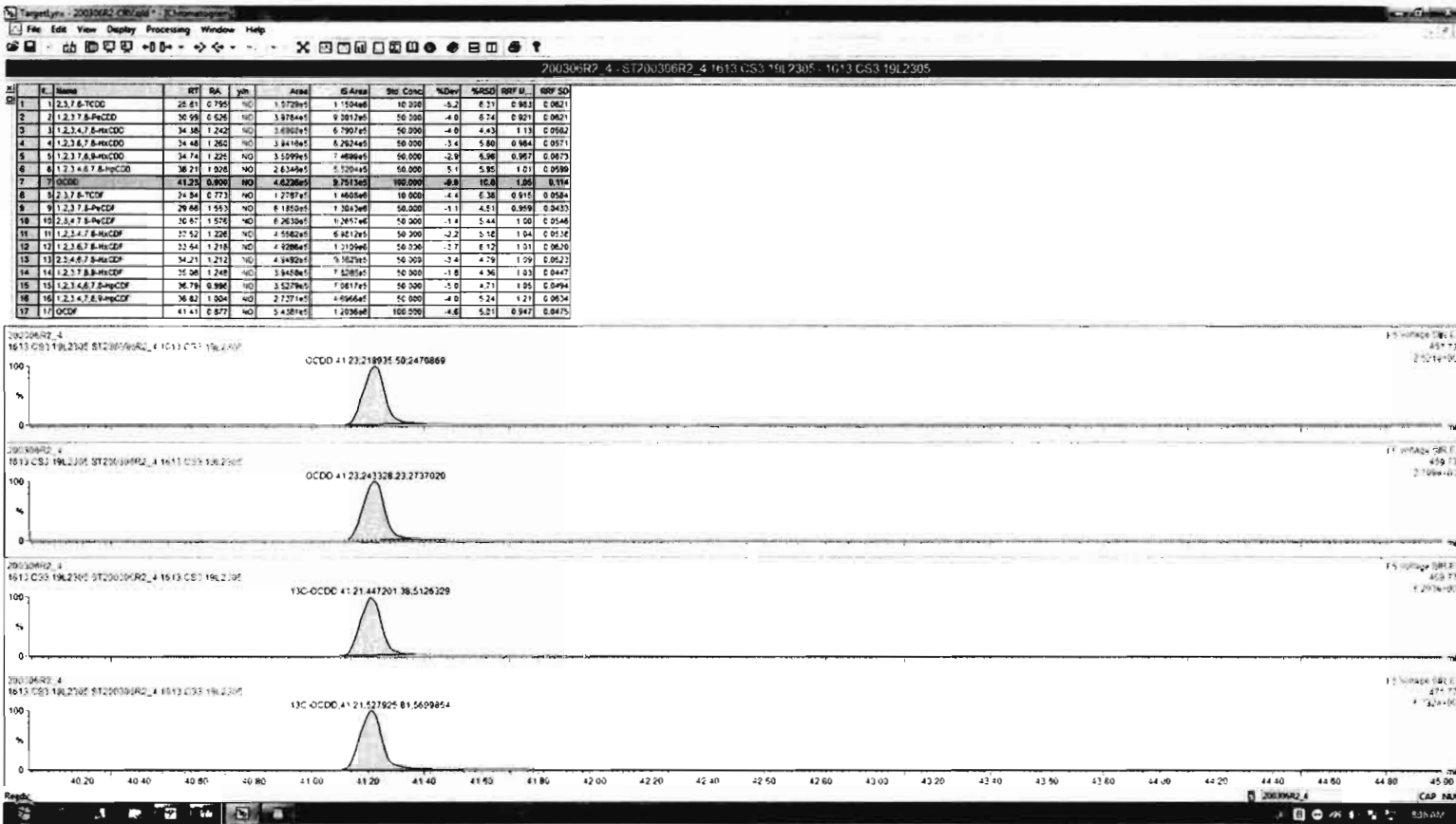
F4: Voltage SIR, EI+
437.814
2.734e+006

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305





Dataset: Untitled

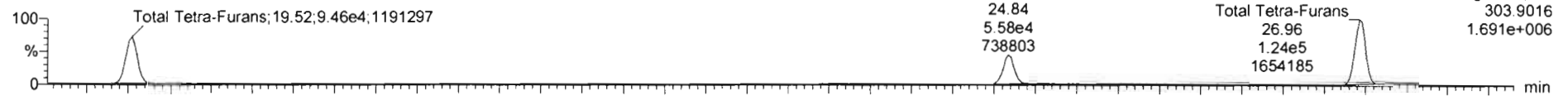
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

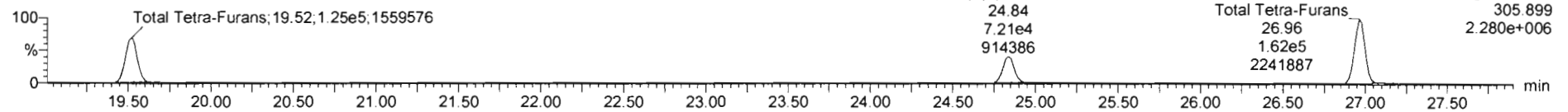
Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200306R2_4

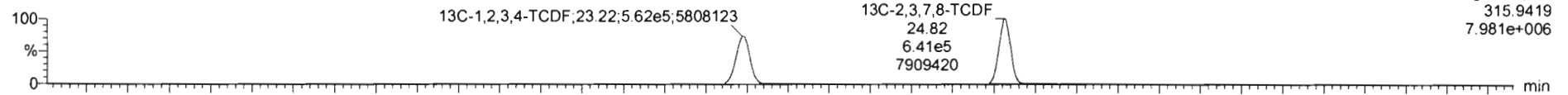


200306R2_4

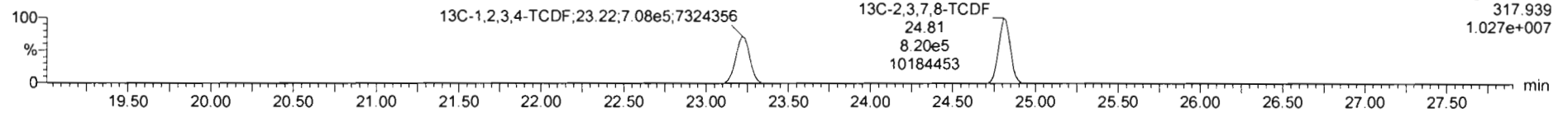


13C-2,3,7,8-TCDF

200306R2_4

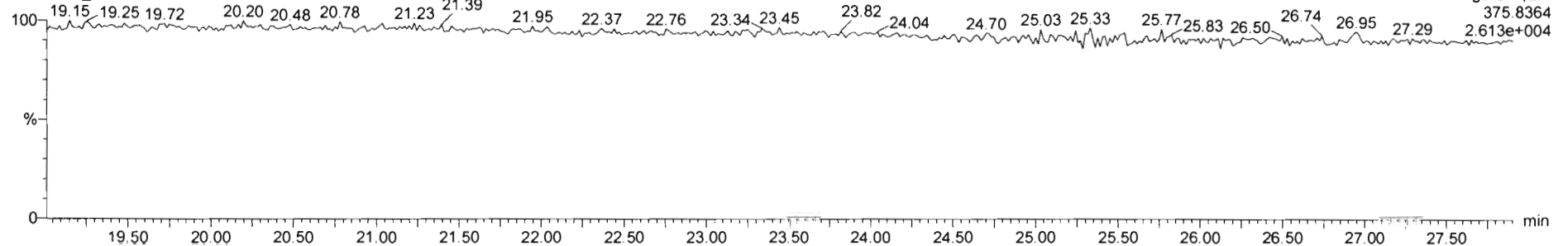


200306R2_4



DPE1

200306R2_4



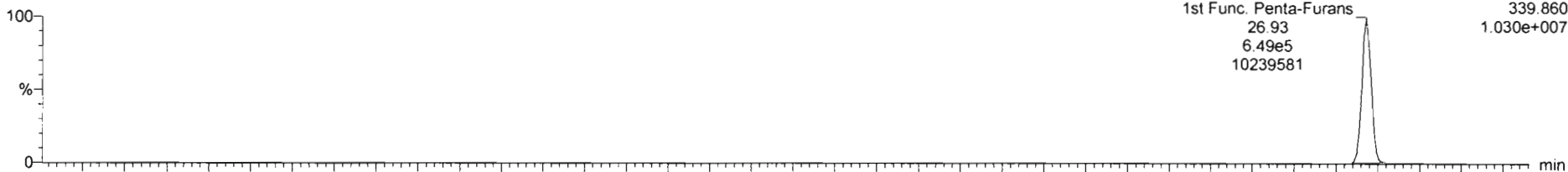
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

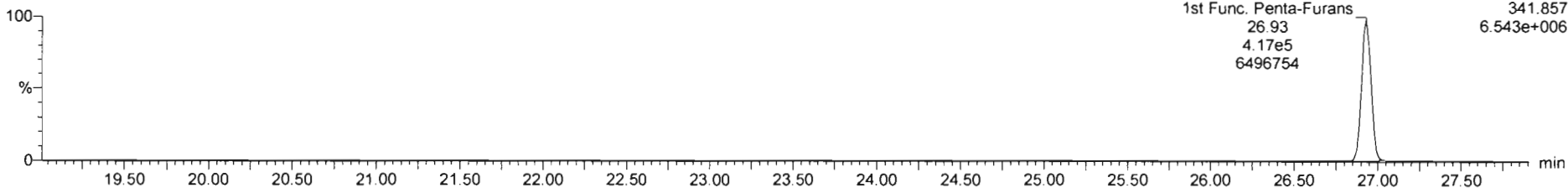
Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200306R2_4

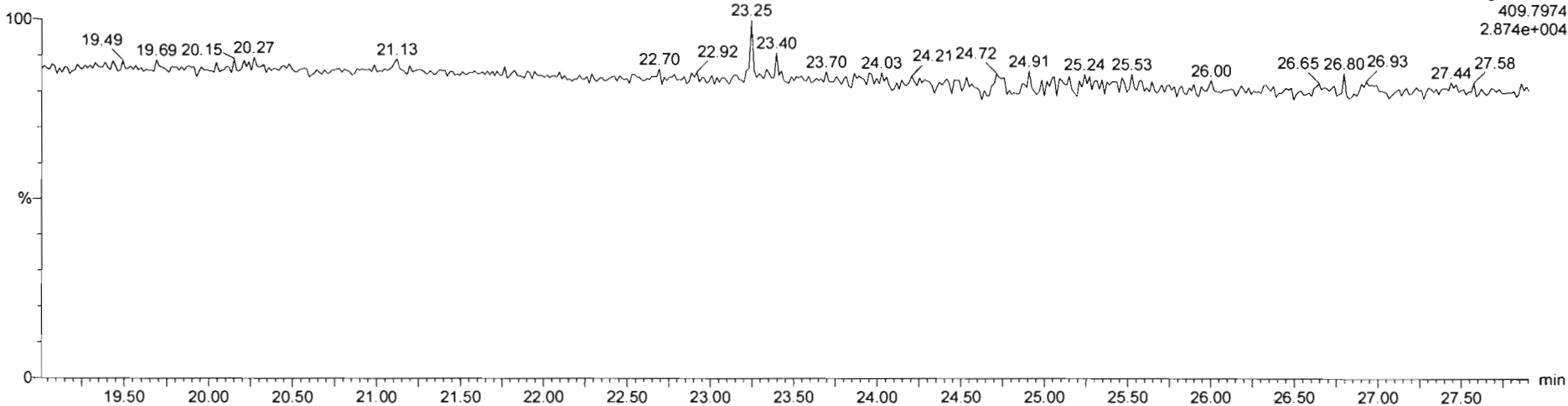


200306R2_4



DPE6

200306R2_4



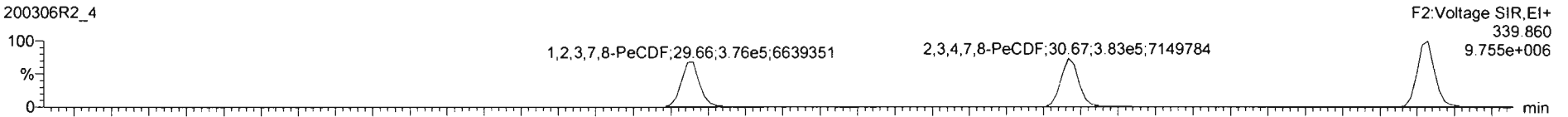
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

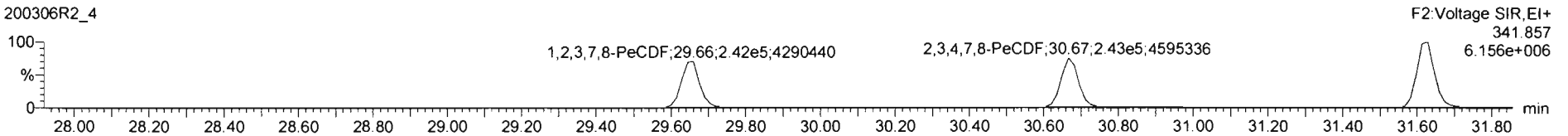
Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDF

200306R2_4

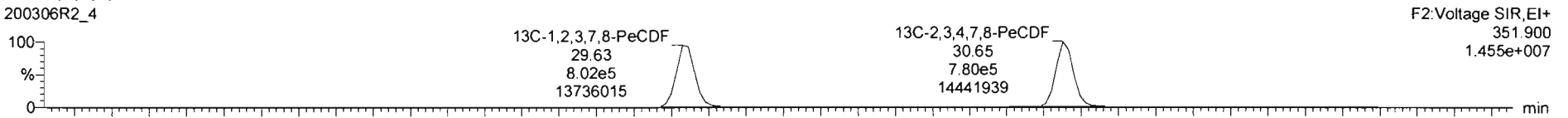


200306R2_4

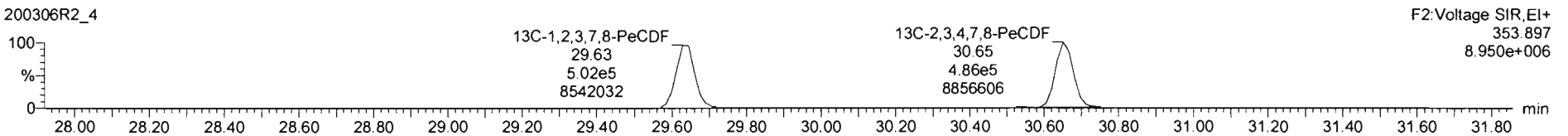


13C-1,2,3,7,8-PeCDF

200306R2_4

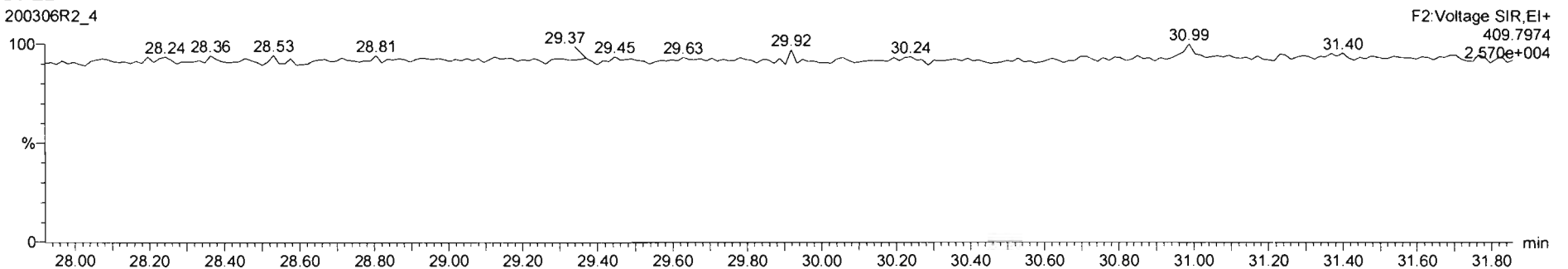


200306R2_4



DPE2

200306R2_4

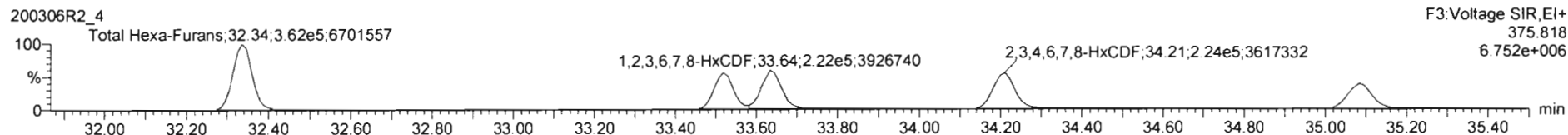
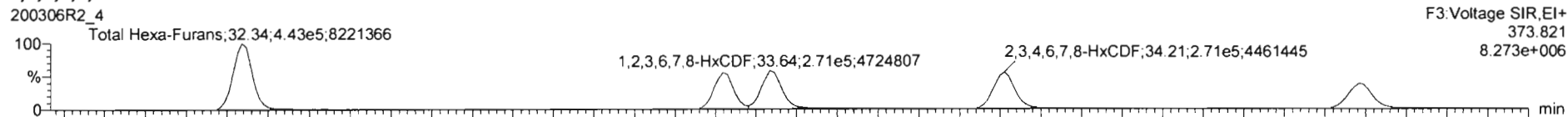


Dataset: Untitled

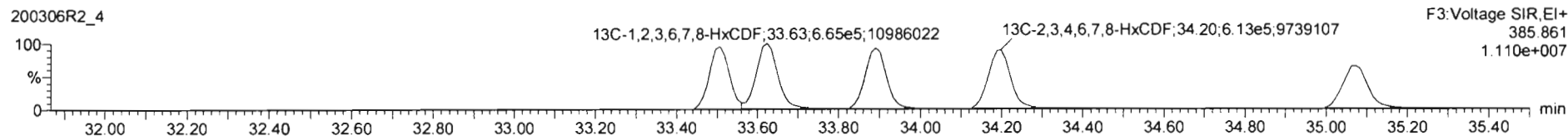
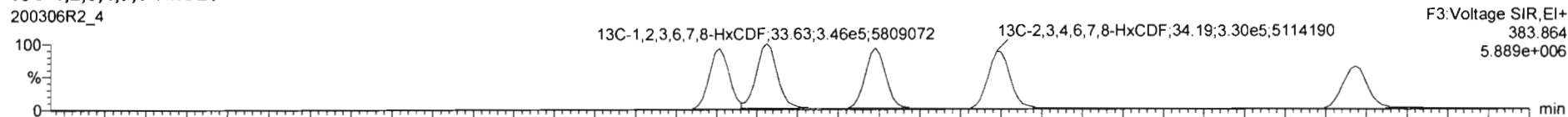
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

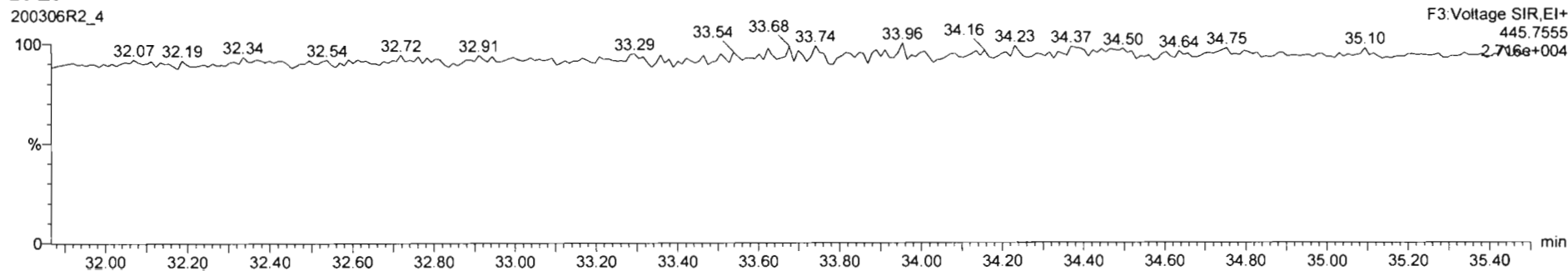
1,2,3,4,7,8-HxCDF

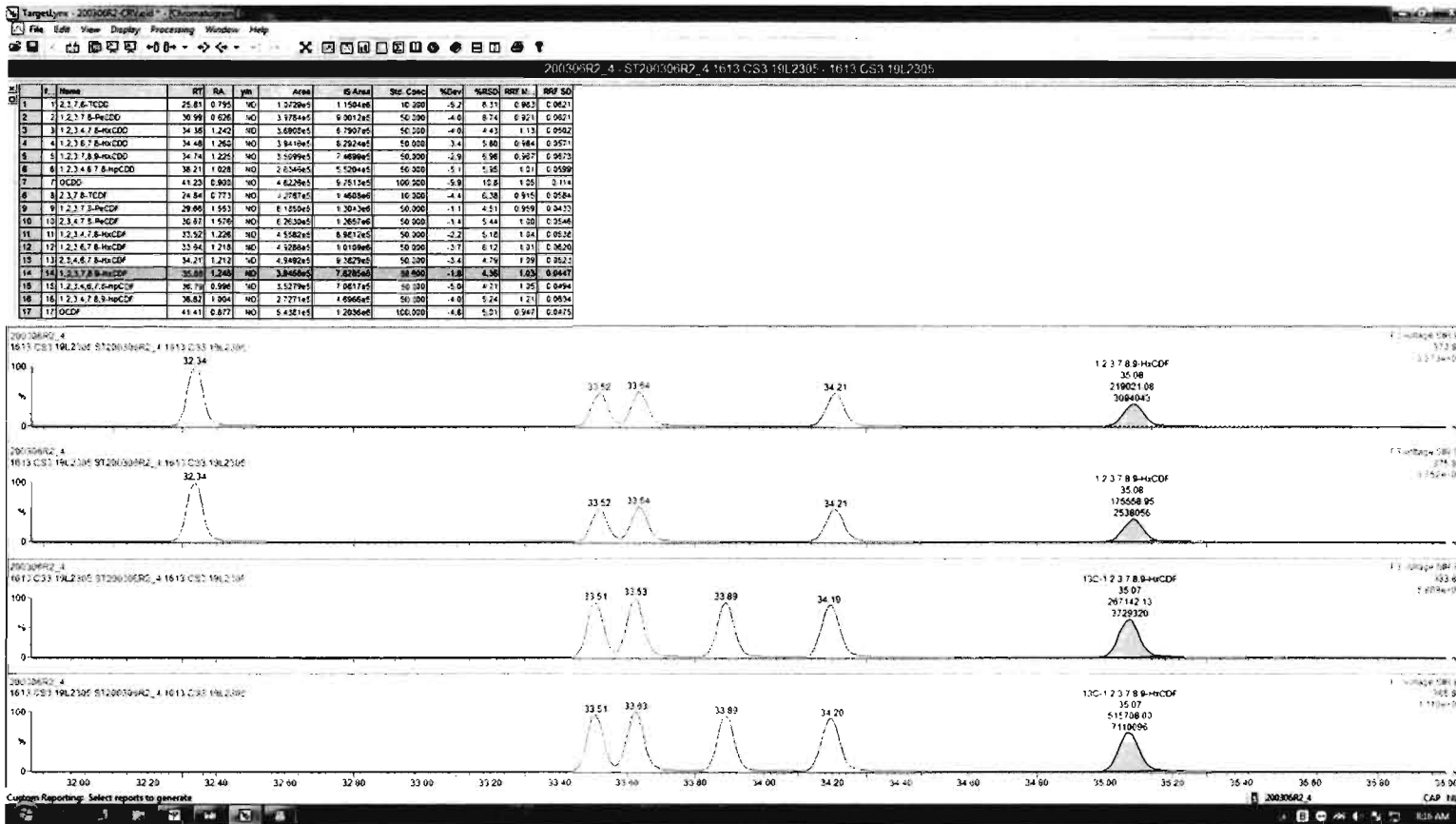


13C-1,2,3,4,7,8-HxCDF



DPE3





Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

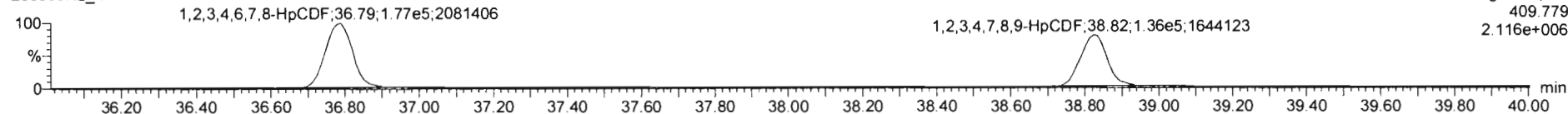
Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200306R2_4



200306R2_4

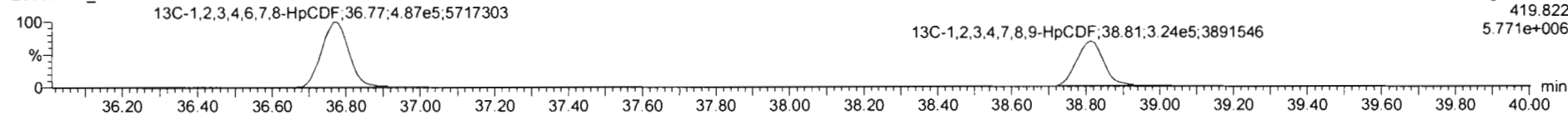


13C-1,2,3,4,6,7,8-HpCDF

200306R2_4

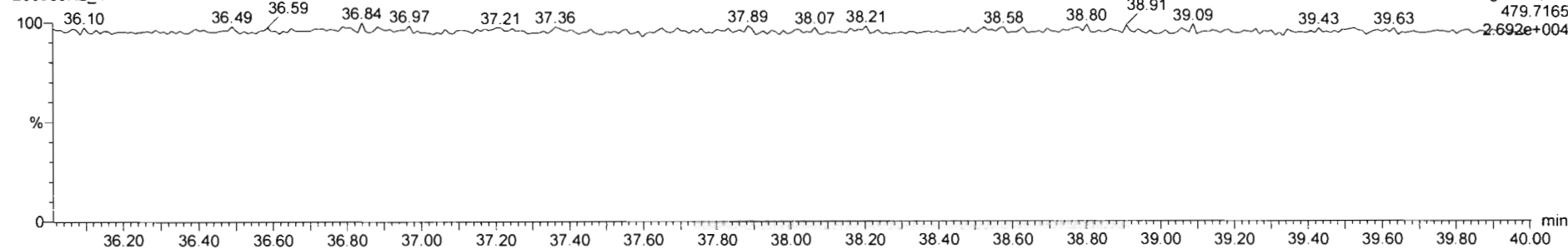


200306R2_4



DPE4

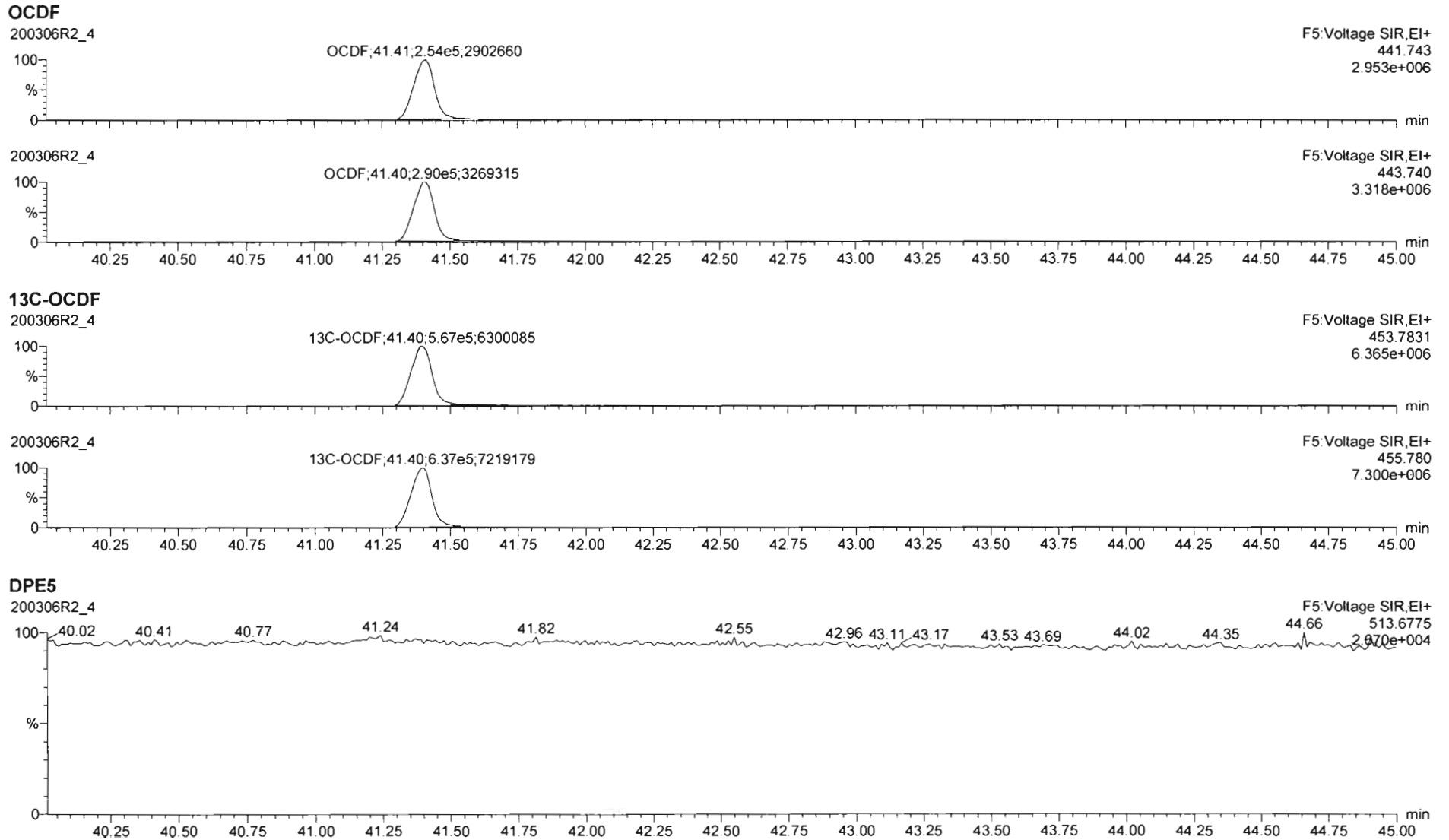
200306R2_4



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

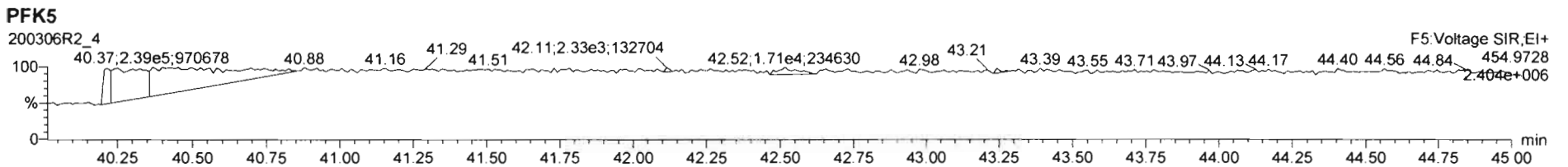
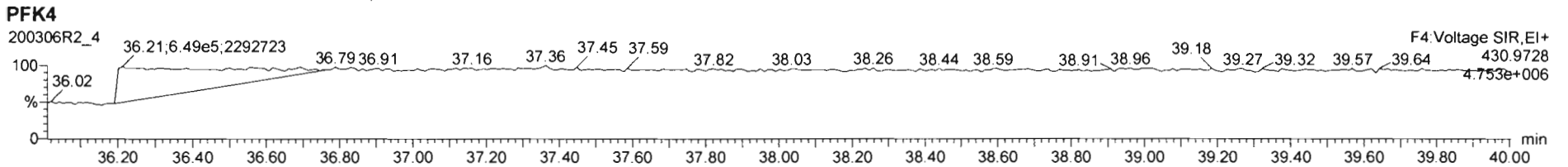
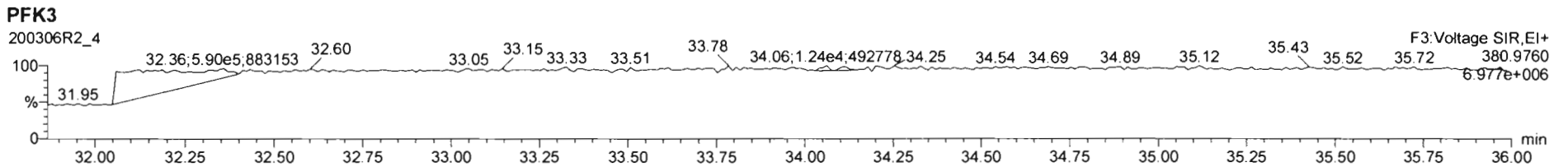
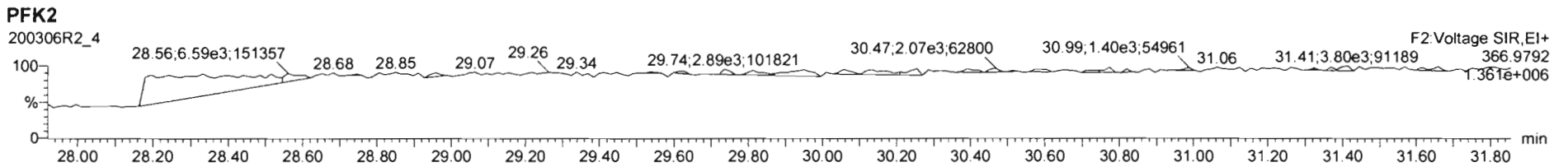
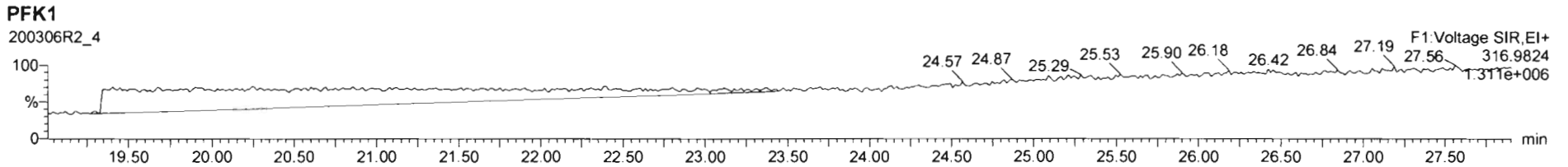


Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

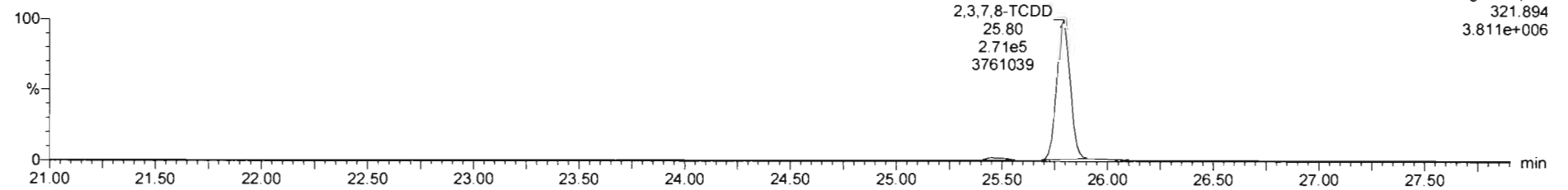
Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDD

200306R2_5

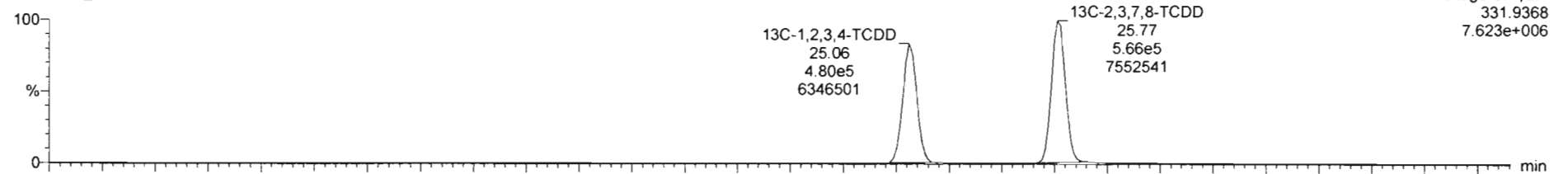


200306R2_5

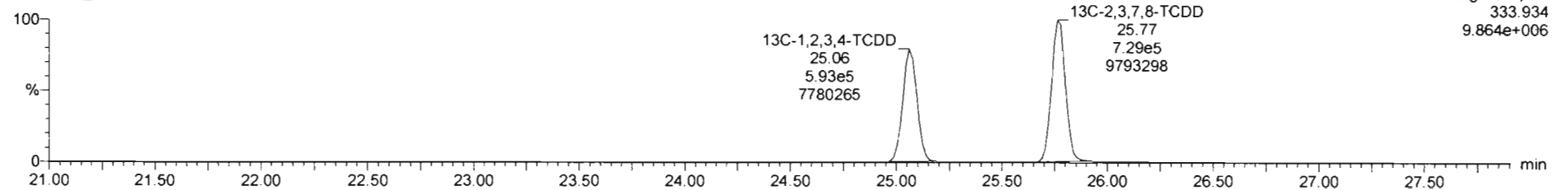


13C-2,3,7,8-TCDD

200306R2_5



200306R2_5



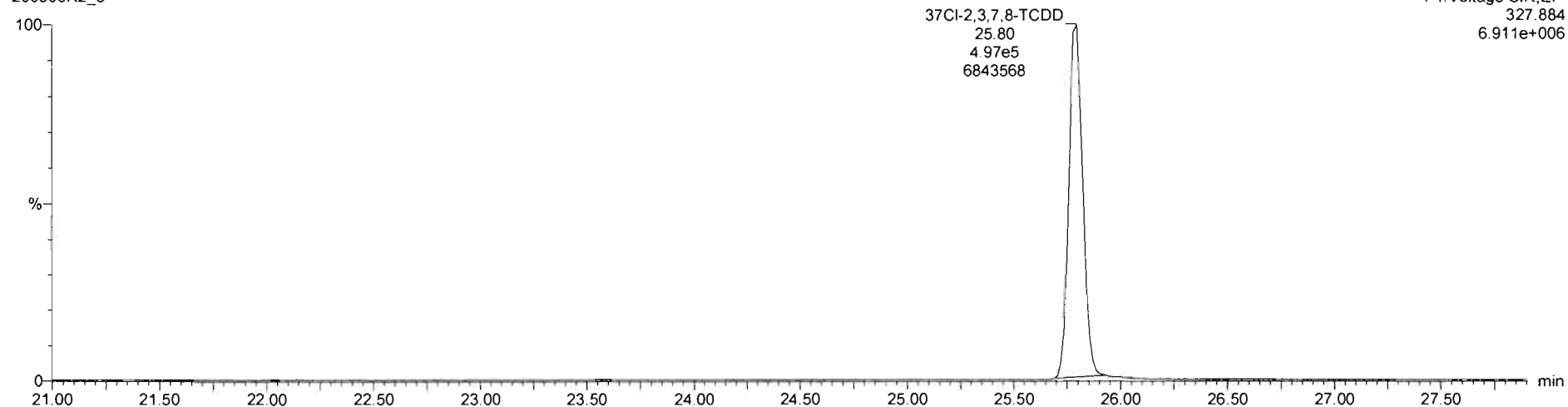
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

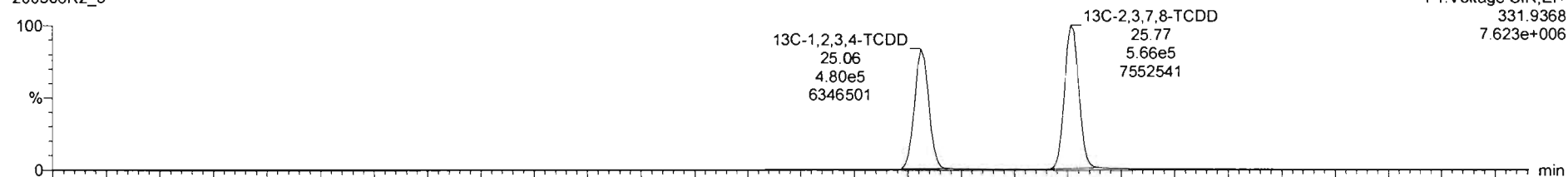
37Cl-2,3,7,8-TCDD

200306R2_5

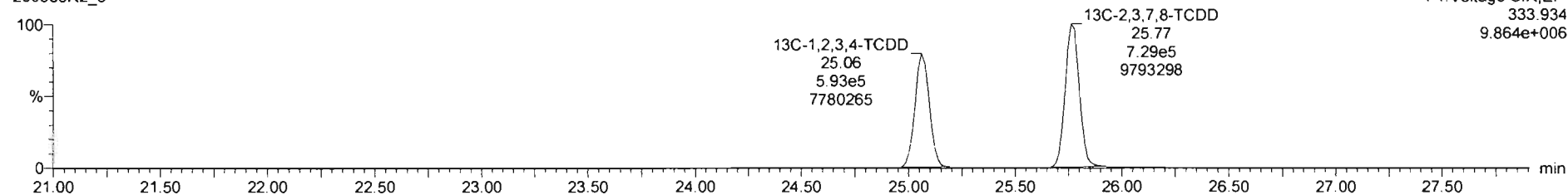


13C-1,2,3,4-TCDD

200306R2_5



200306R2_5



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

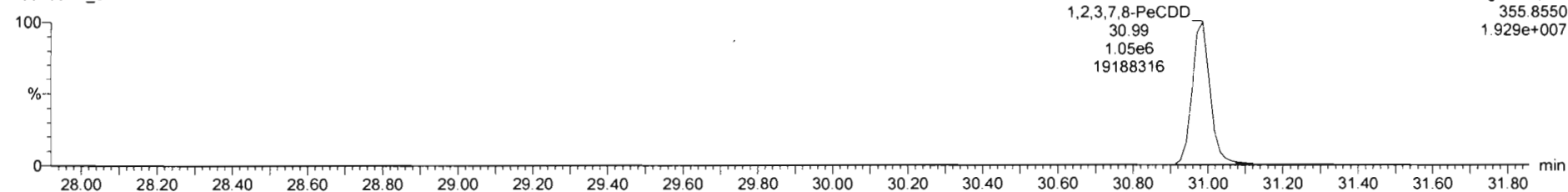
Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1,2,3,7,8-PeCDD

200306R2_5

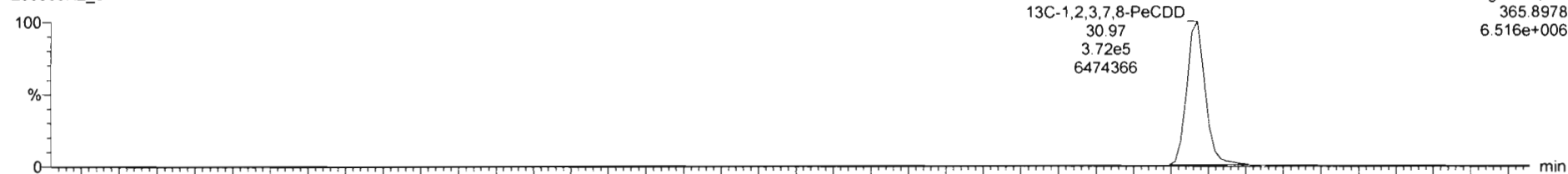


200306R2_5

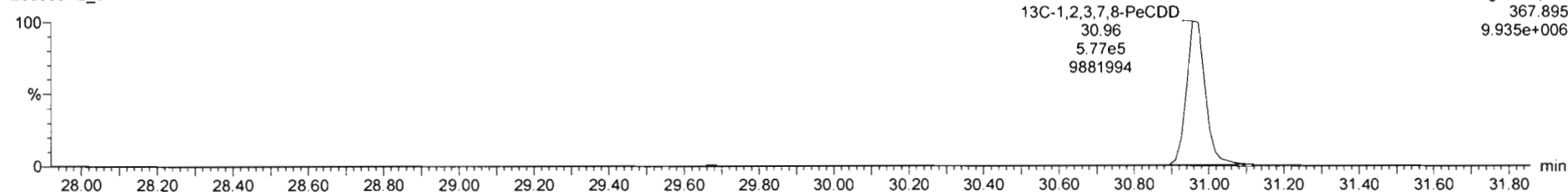


13C-1,2,3,7,8-PeCDD

200306R2_5



200306R2_5



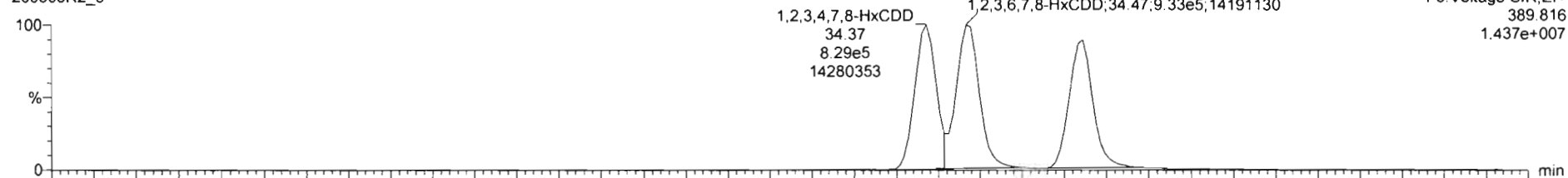
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

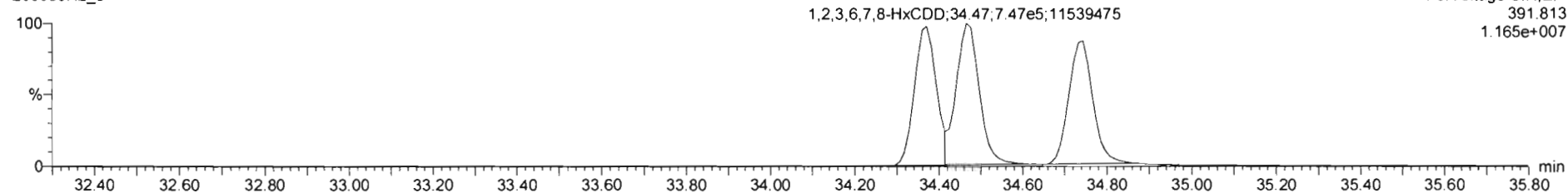
Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200306R2_5

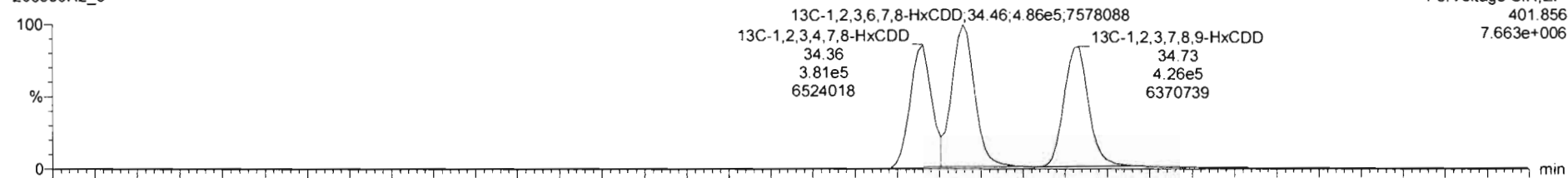


200306R2_5

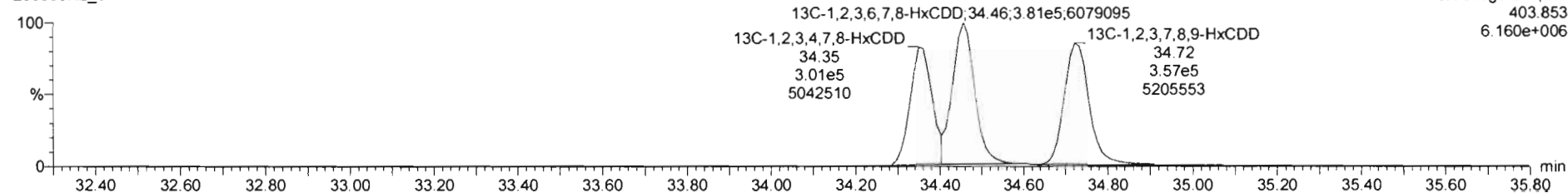


13C-1,2,3,4,7,8-HxCDD

200306R2_5



200306R2_5



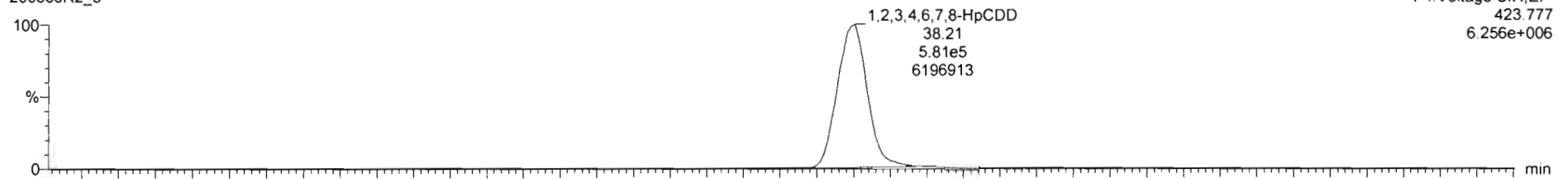
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

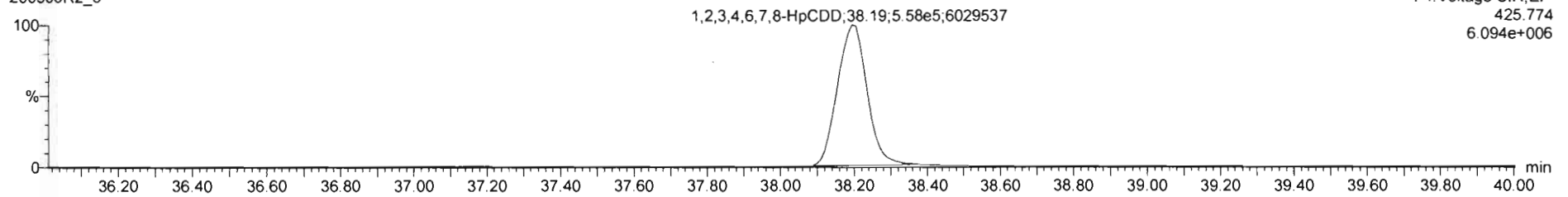
Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200306R2_5

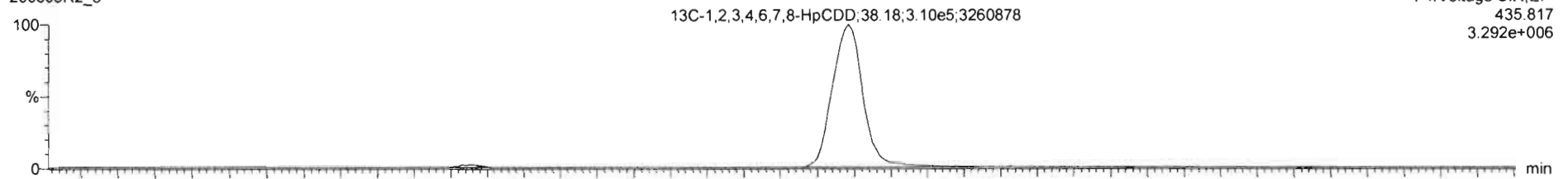


200306R2_5

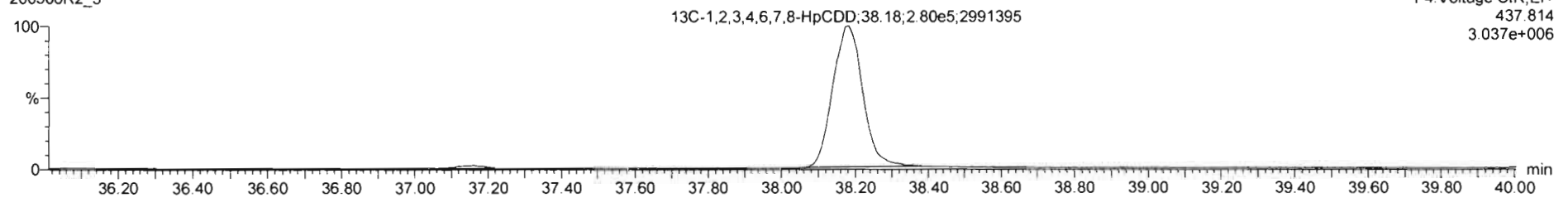


13C-1,2,3,4,6,7,8-HpCDD

200306R2_5



200306R2_5



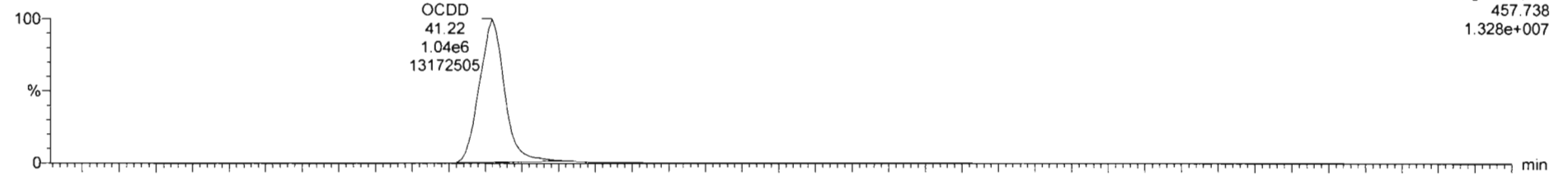
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

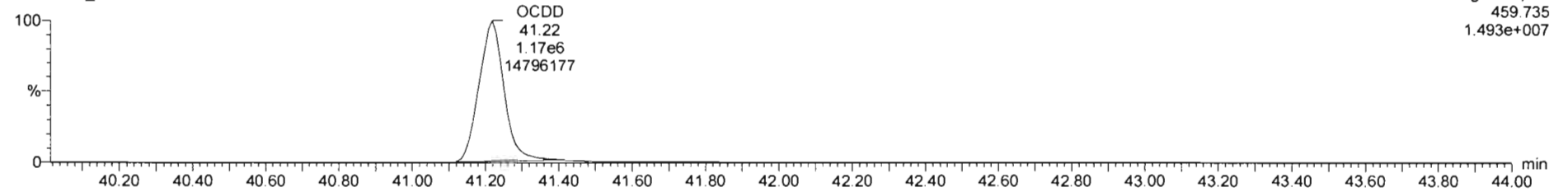
Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

OCDD

200306R2_5

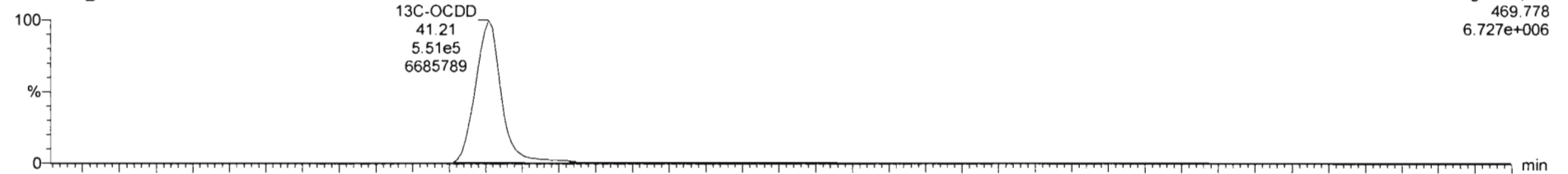


200306R2_5

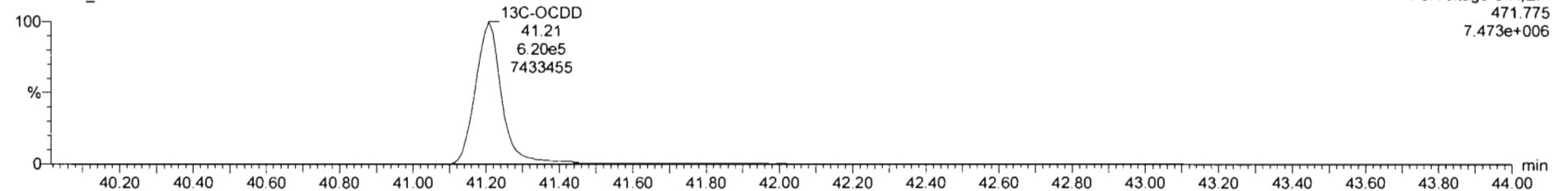


13C-OCDD

200306R2_5



200306R2_5



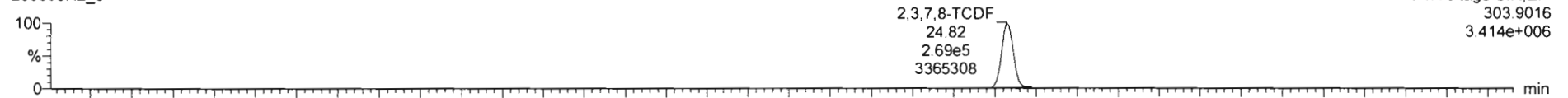
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

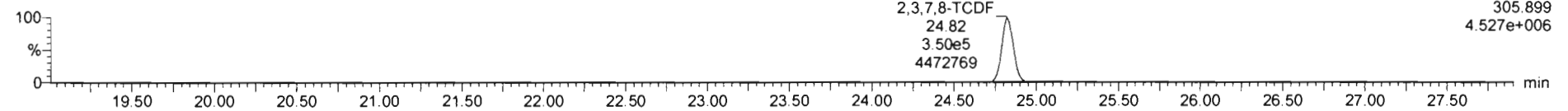
Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200306R2_5

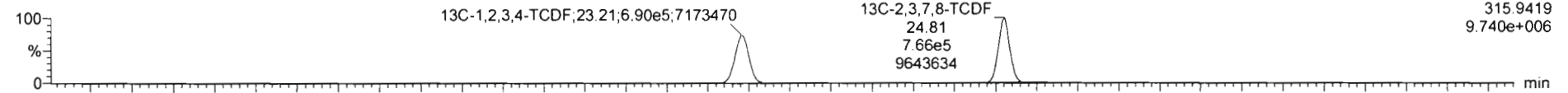


200306R2_5

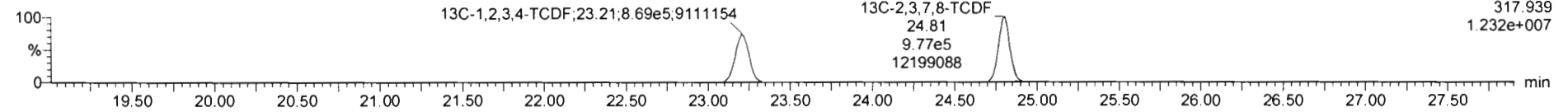


13C-2,3,7,8-TCDF

200306R2_5

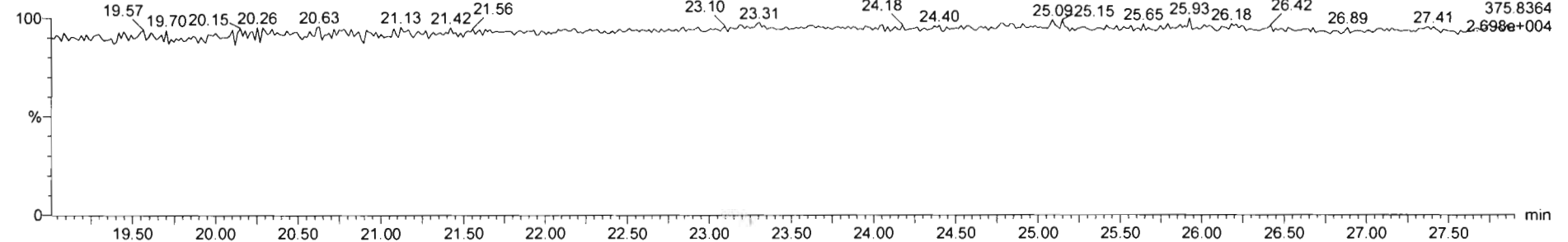


200306R2_5



DPE1

200306R2_5

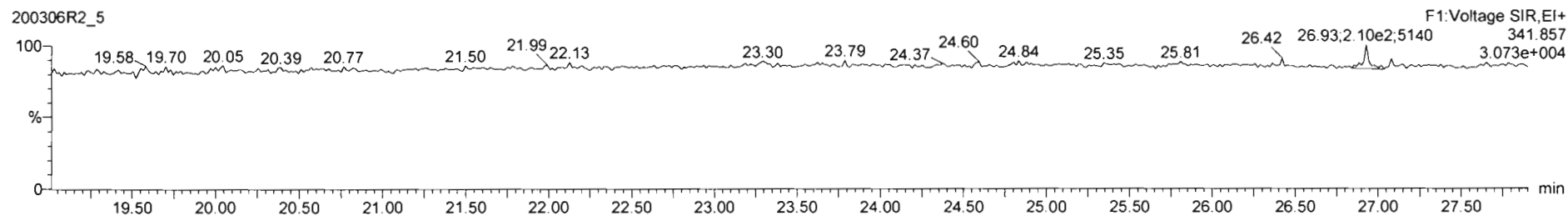
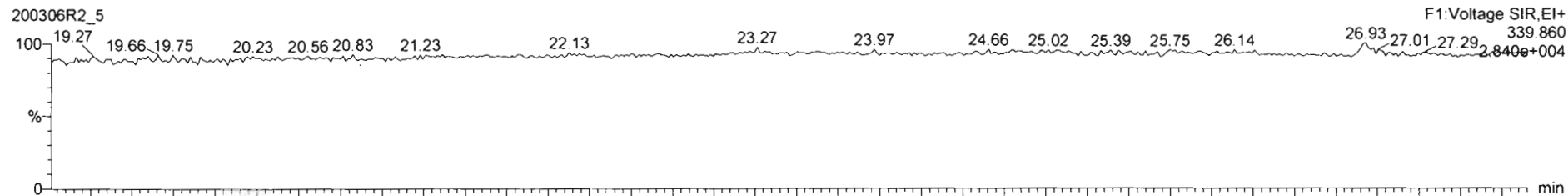


Dataset: Untitled

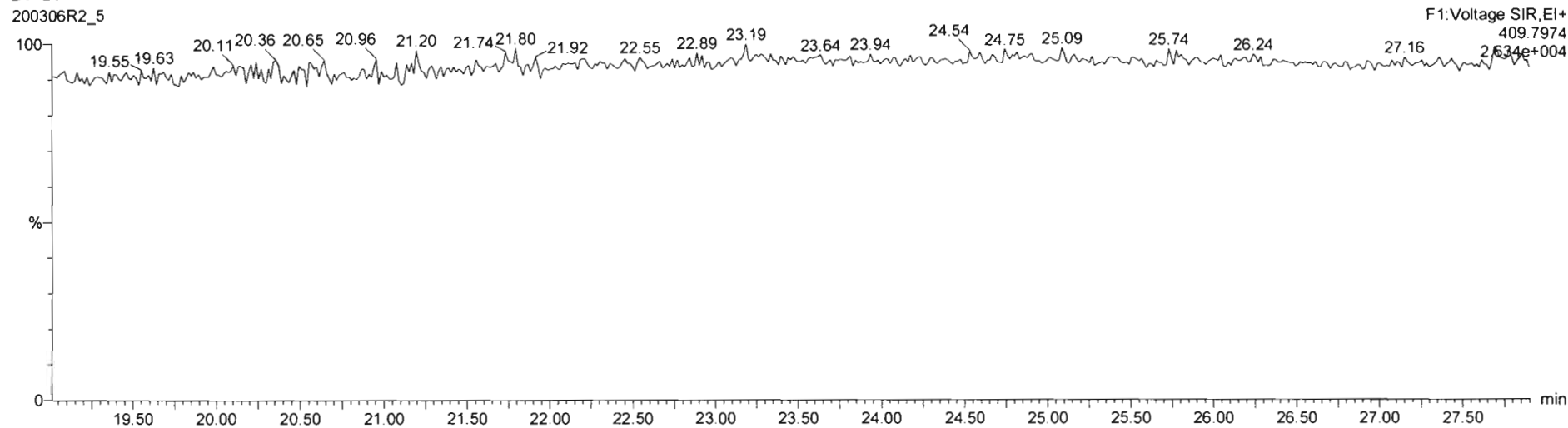
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1st Func. Penta-Furans



DPE6



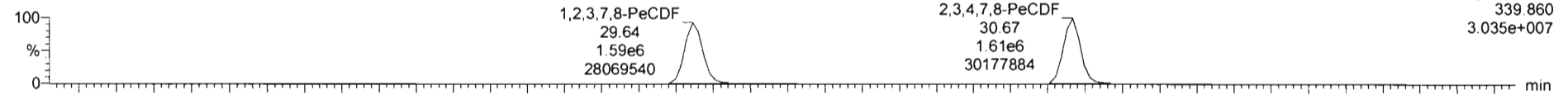
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

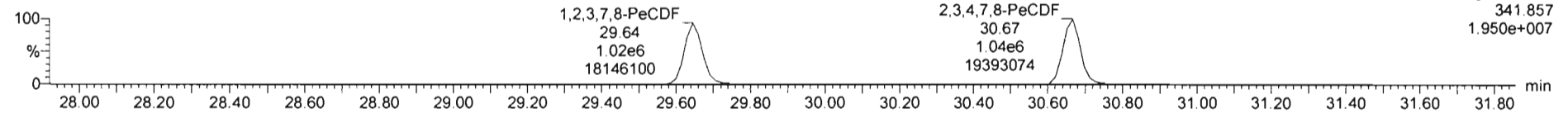
Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1,2,3,7,8-PeCDF

200306R2_5

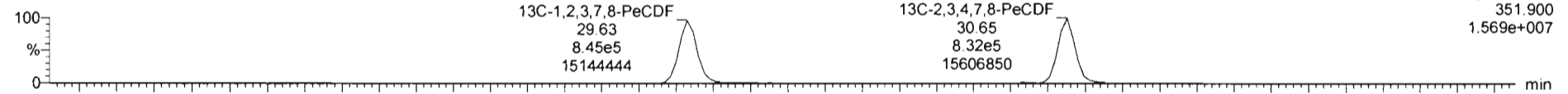


200306R2_5

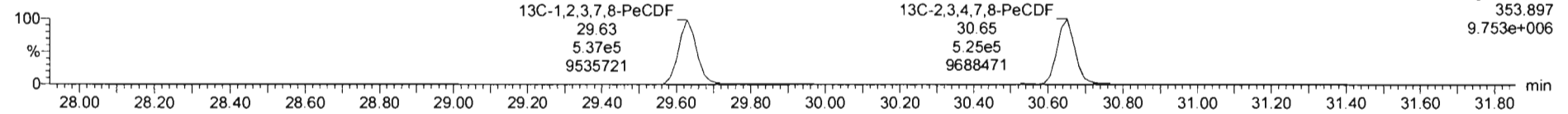


13C-1,2,3,7,8-PeCDF

200306R2_5

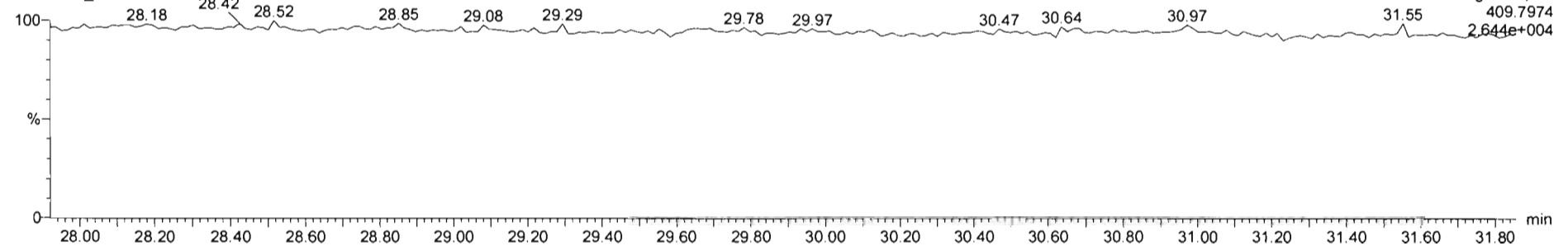


200306R2_5



DPE2

200306R2_5



Dataset: Untitled

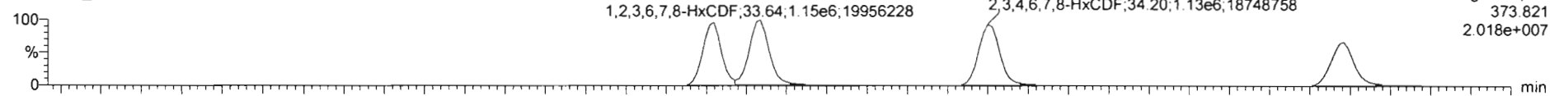
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

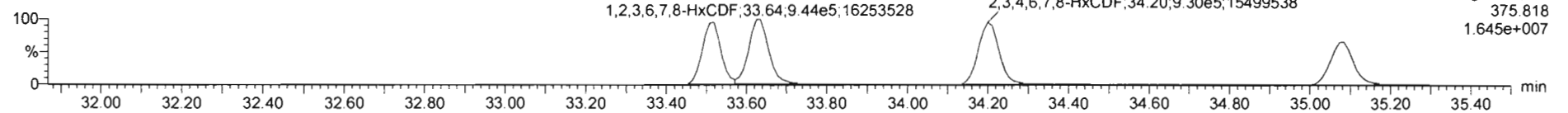
Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200306R2_5

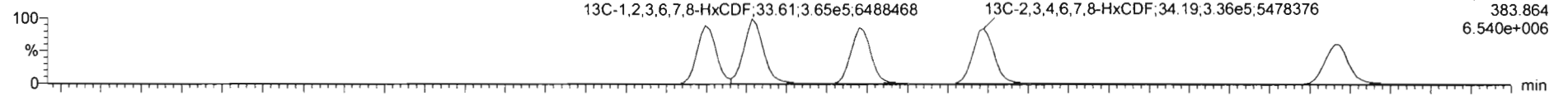


200306R2_5

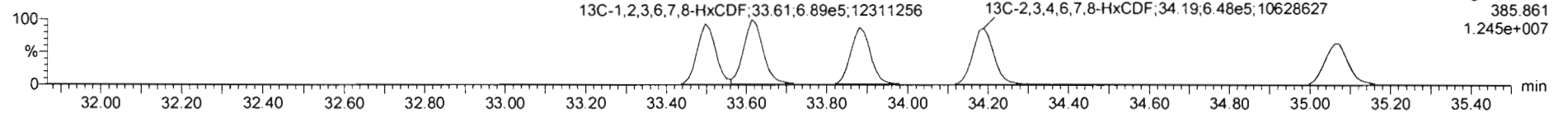


13C-1,2,3,4,7,8-HxCDF

200306R2_5

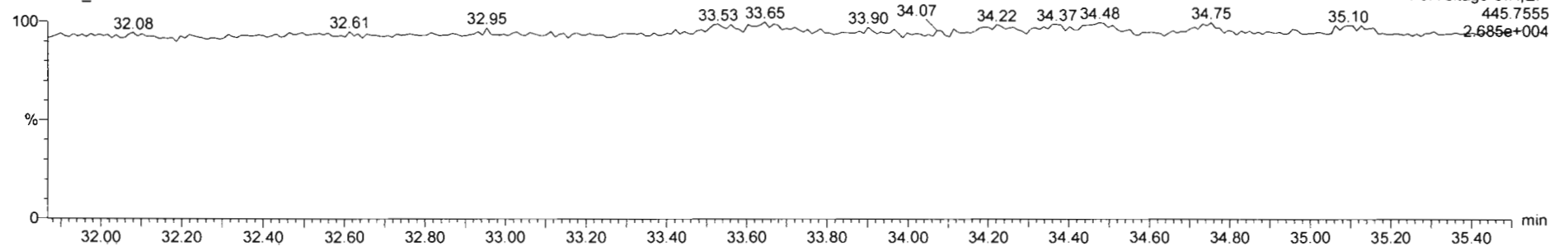


200306R2_5



DPE3

200306R2_5



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

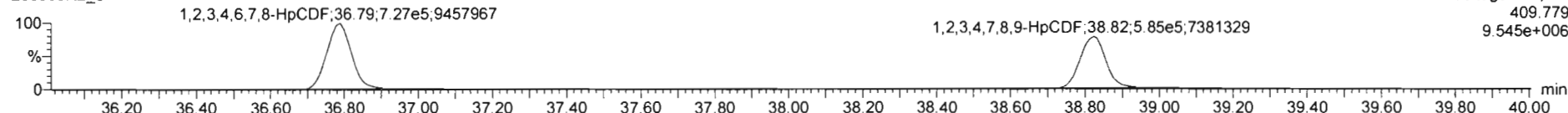
1,2,3,4,6,7,8-HpCDF

200306R2_5



F4:Voltage SIR,EI+
407.782
9.536e+006

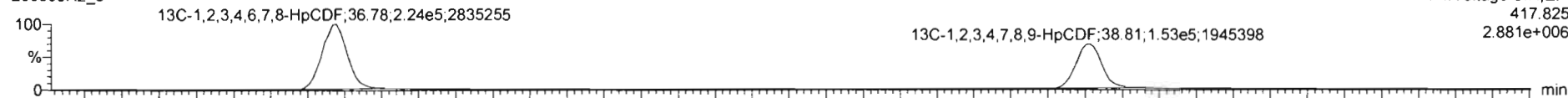
200306R2_5



F4:Voltage SIR,EI+
409.779
9.545e+006

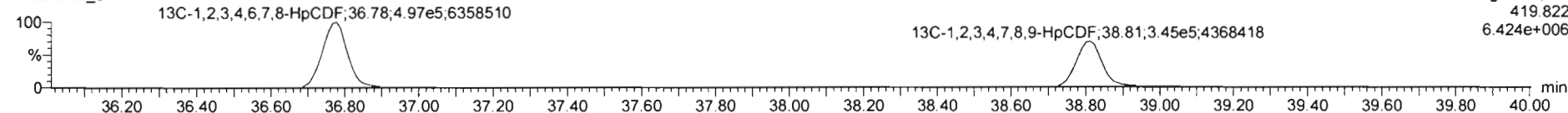
13C-1,2,3,4,6,7,8-HpCDF

200306R2_5



F4:Voltage SIR,EI+
417.825
2.881e+006

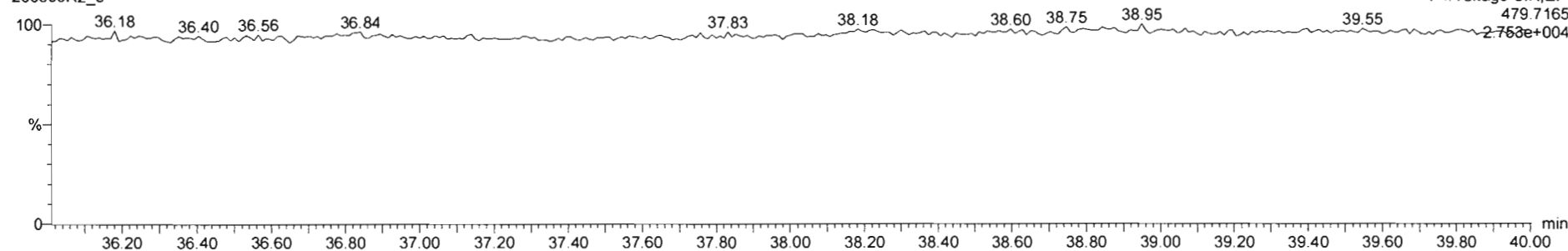
200306R2_5



F4:Voltage SIR,EI+
419.822
6.424e+006

DPE4

200306R2_5



F4:Voltage SIR,EI+
479.7165
2.753e+004

Dataset: Untitled

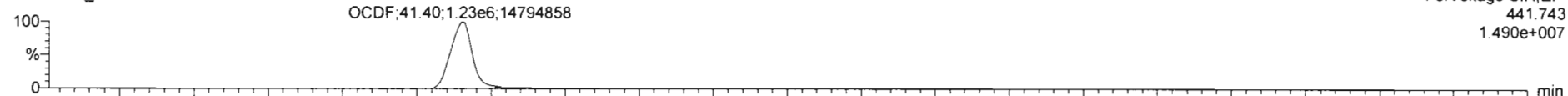
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

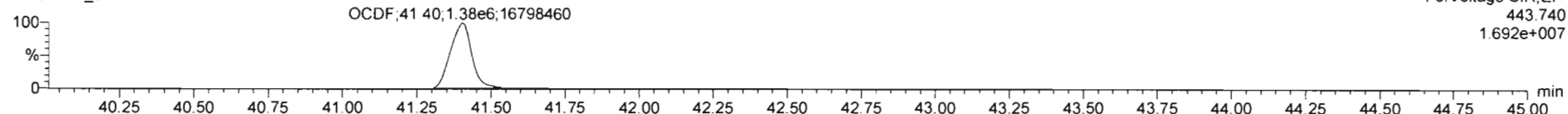
Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

OCDF

200306R2_5

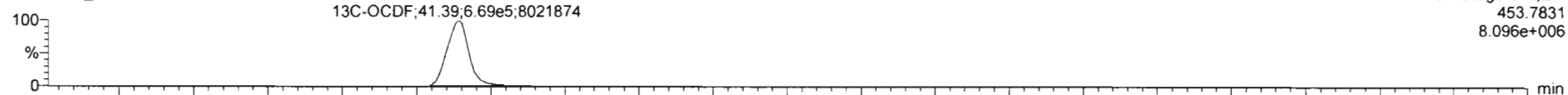


200306R2_5

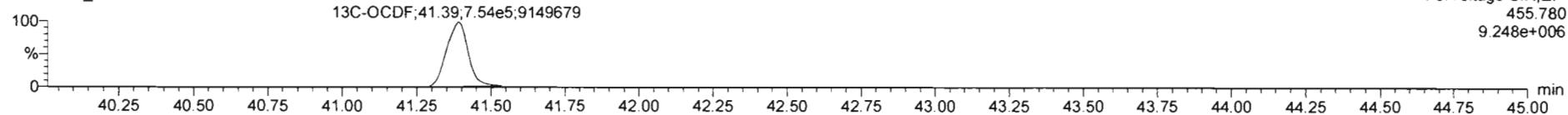


13C-OCDF

200306R2_5

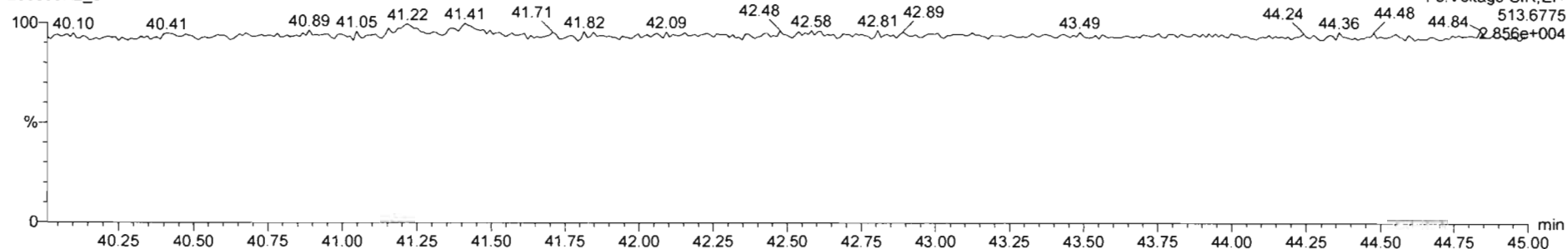


200306R2_5



DPE5

200306R2_5



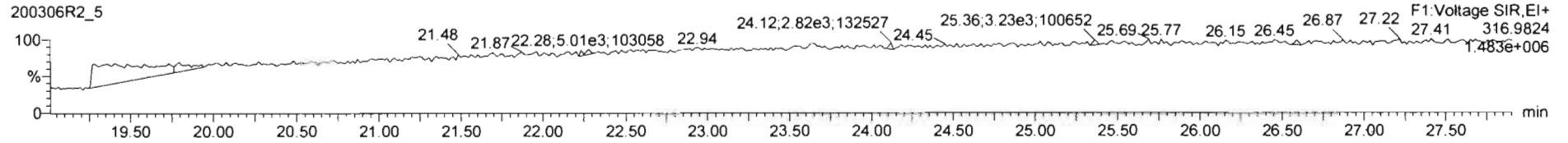
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

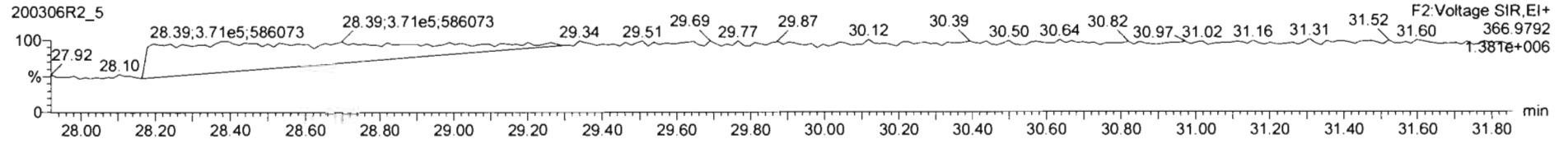
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

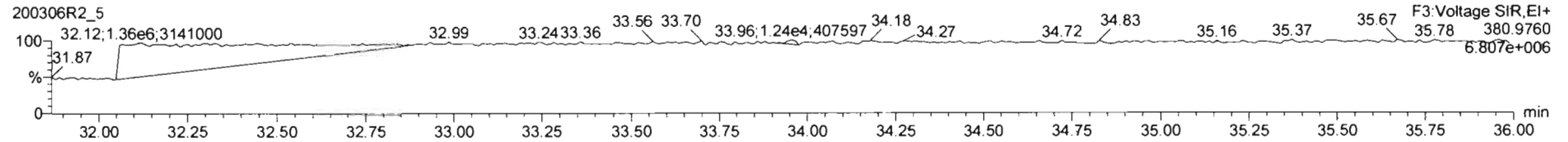
PFK1



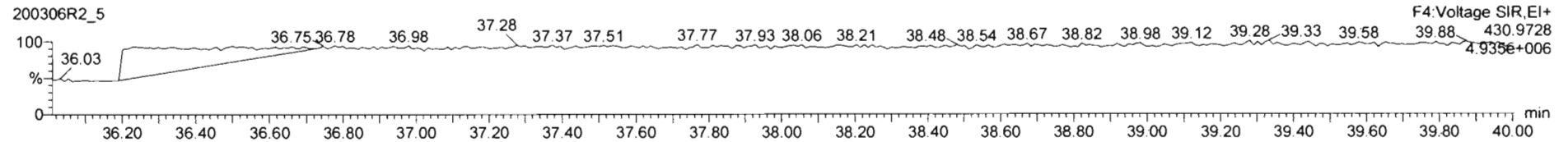
PFK2



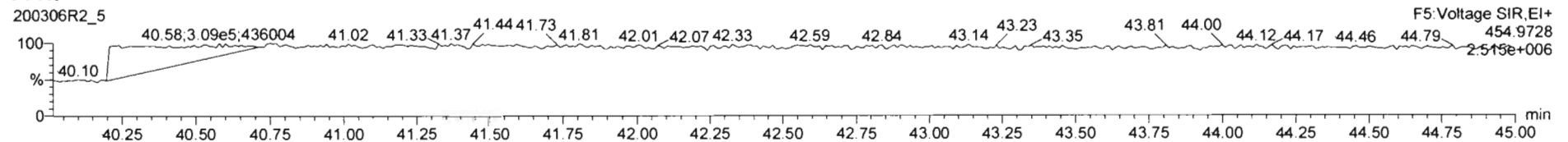
PFK3



PFK4



PFK5



Dataset: Untitled

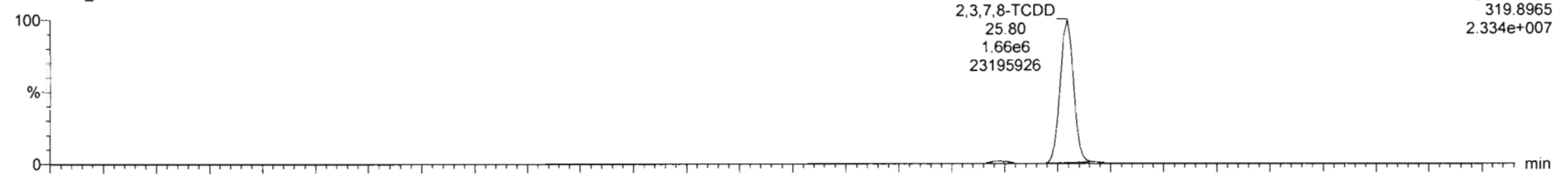
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

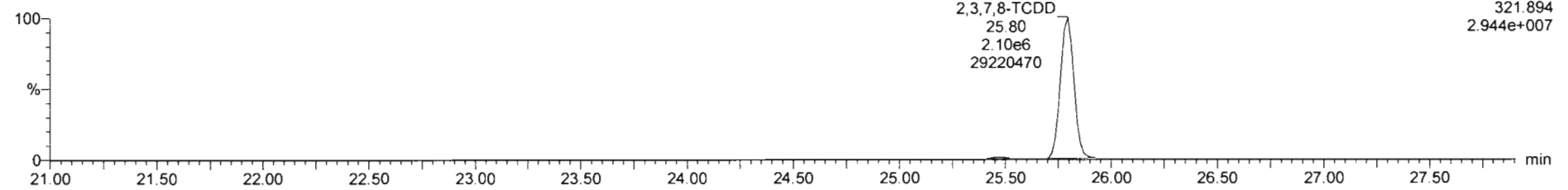
Name: 200306R2_6; Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

2,3,7,8-TCDD

200306R2_6

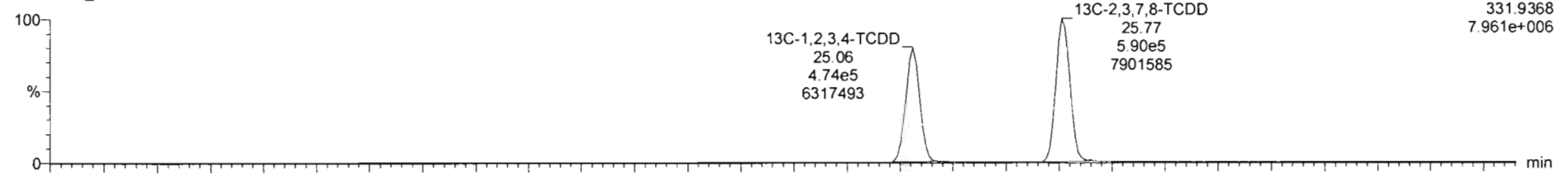


200306R2_6

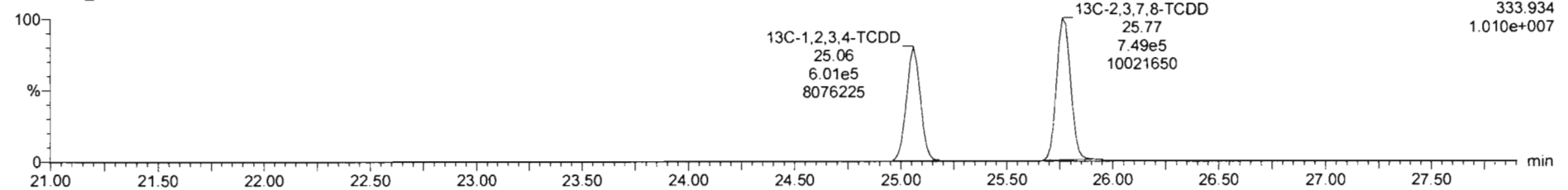


13C-2,3,7,8-TCDD

200306R2_6



200306R2_6



Dataset: Untitled

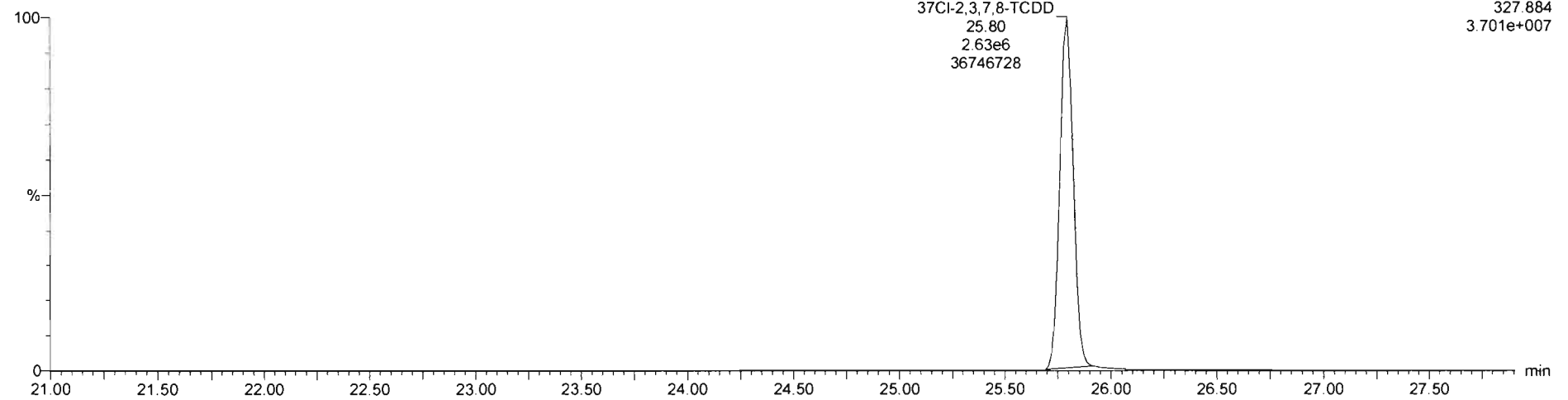
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_6; Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

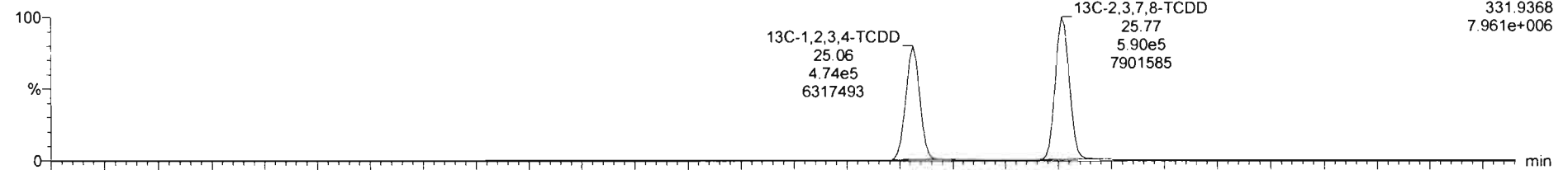
37Cl-2,3,7,8-TCDD

200306R2_6

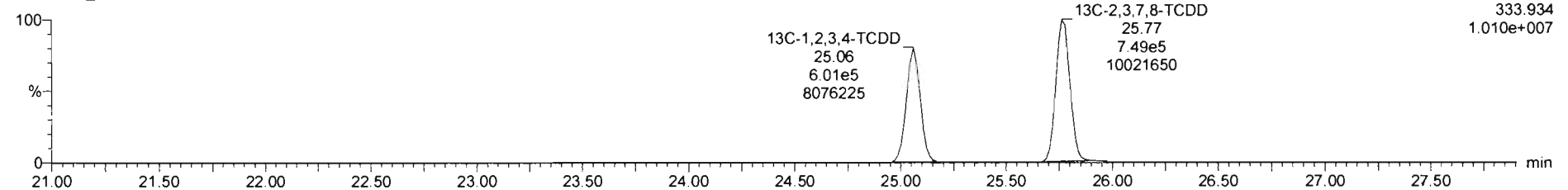


13C-1,2,3,4-TCDD

200306R2_6



200306R2_6



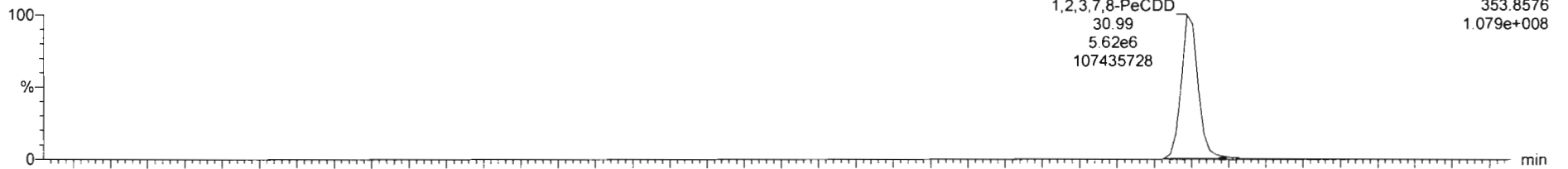
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

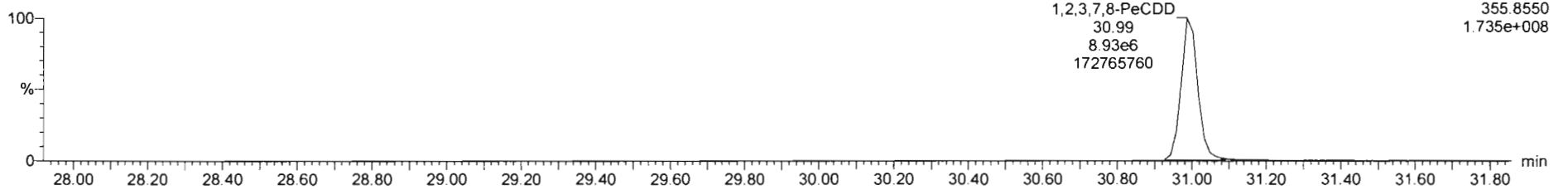
Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

1,2,3,7,8-PeCDD

200306R2_6

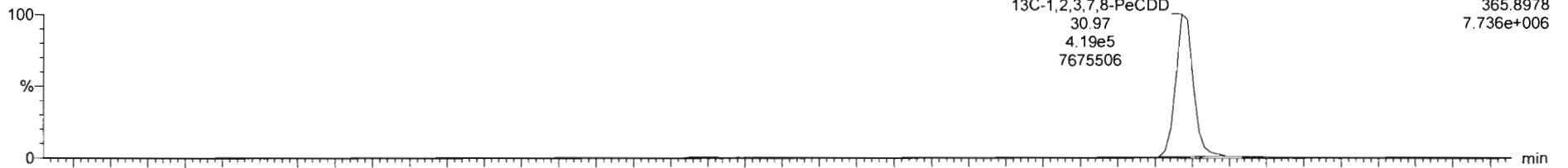


200306R2_6

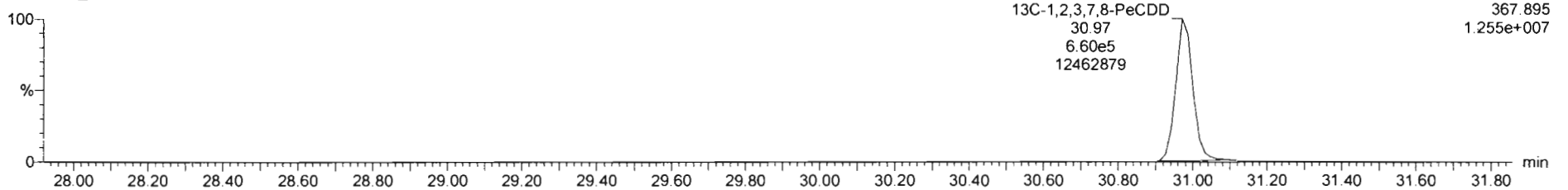


13C-1,2,3,7,8-PeCDD

200306R2_6



200306R2_6



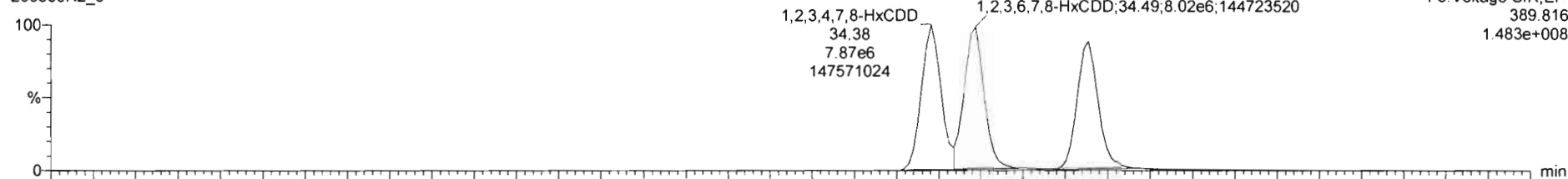
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

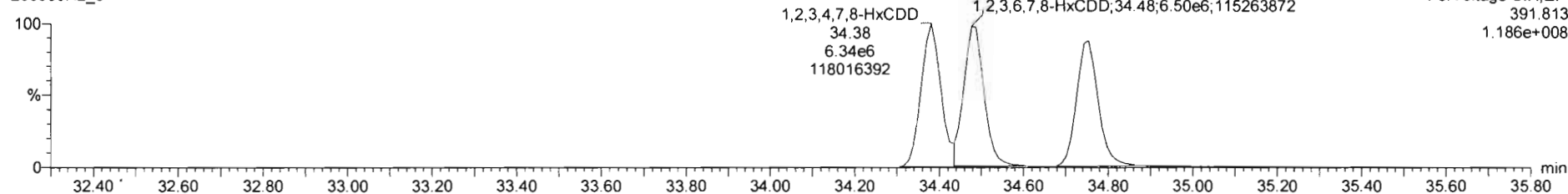
Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200306R2_6

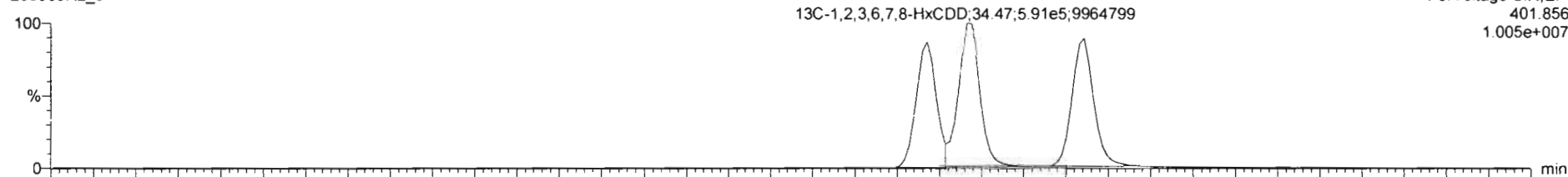


200306R2_6

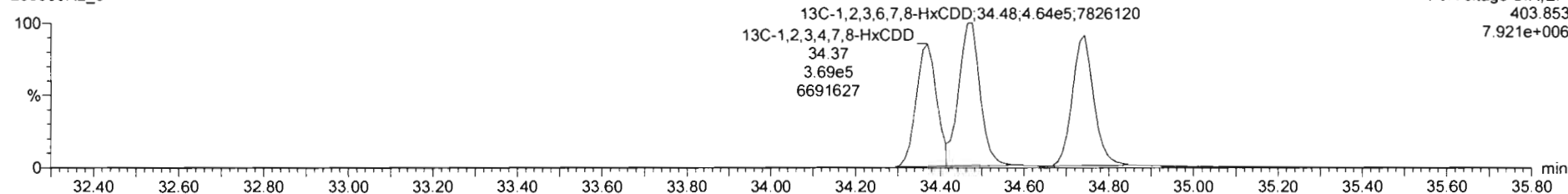


13C-1,2,3,4,7,8-HxCDD

200306R2_6



200306R2_6



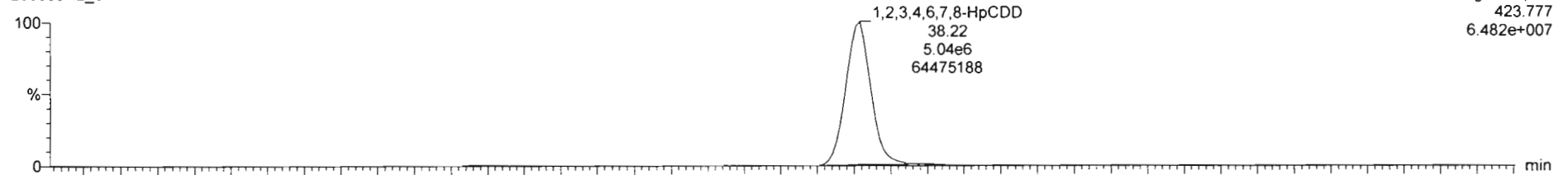
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

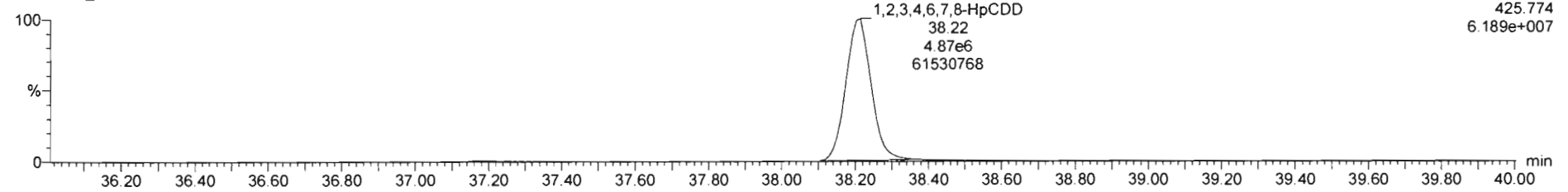
Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200306R2_6

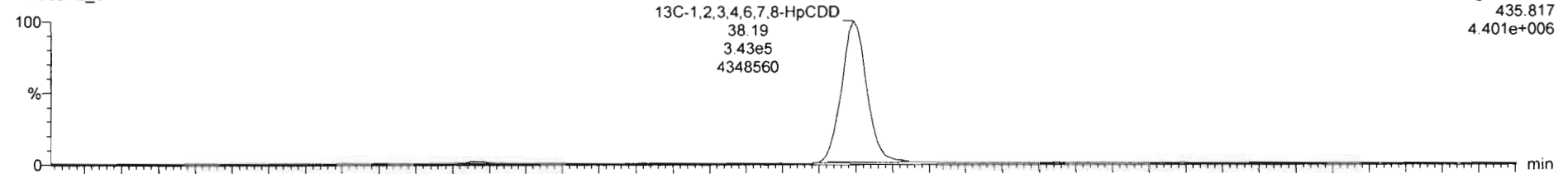


200306R2_6

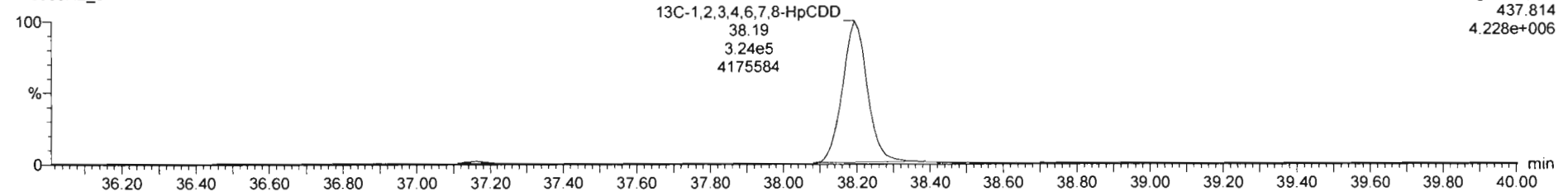


13C-1,2,3,4,6,7,8-HpCDD

200306R2_6



200306R2_6



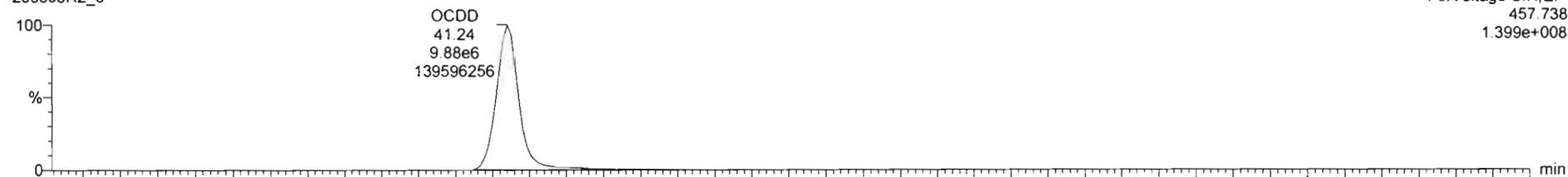
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

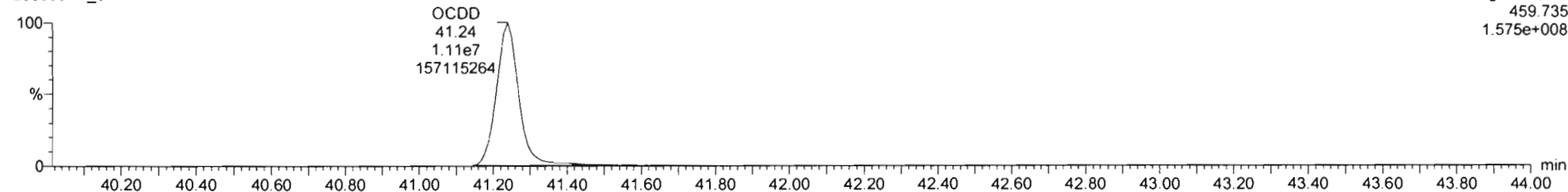
Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

OCDD

200306R2_6

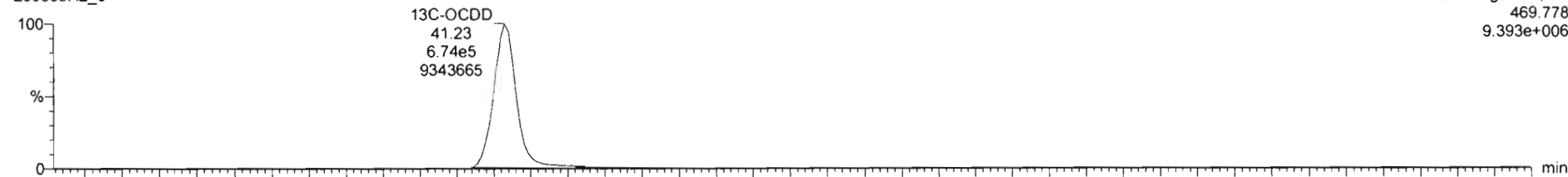


200306R2_6

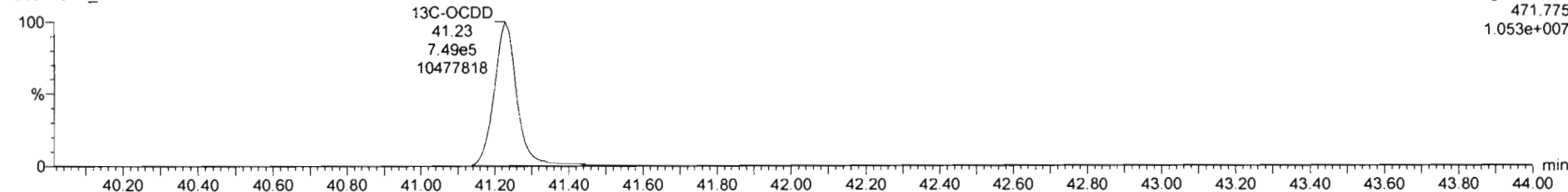


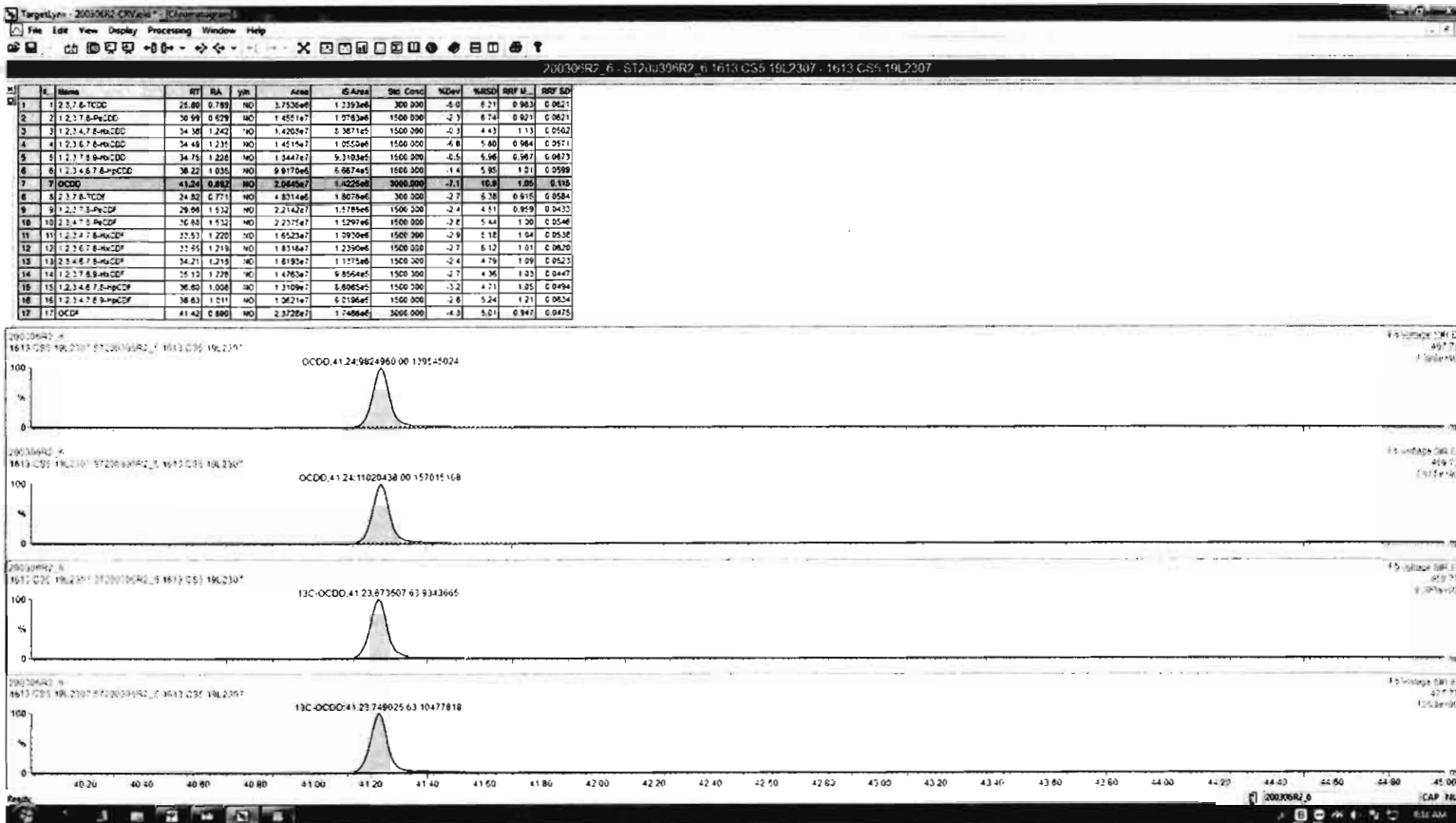
13C-OCDD

200306R2_6



200306R2_6





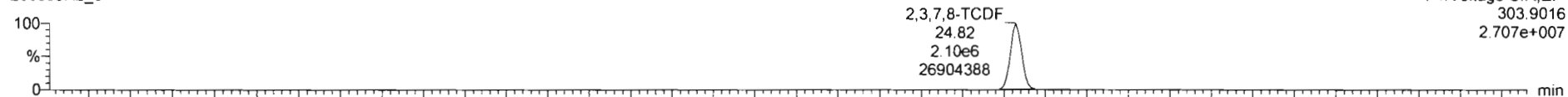
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

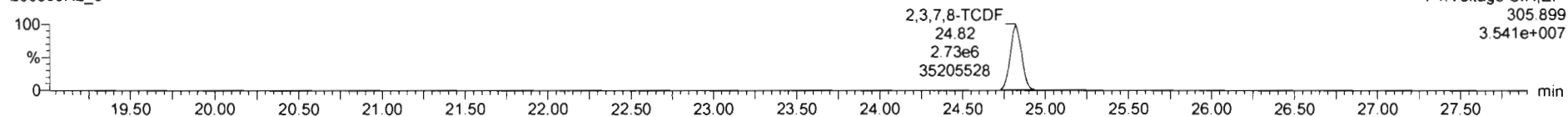
Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

2,3,7,8-TCDF

200306R2_6

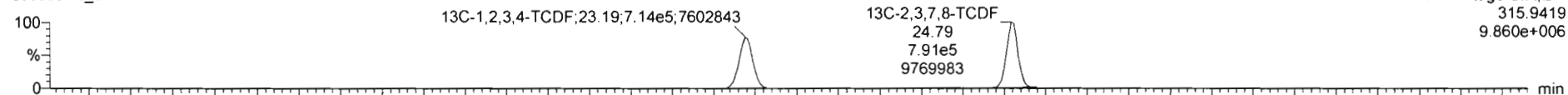


200306R2_6

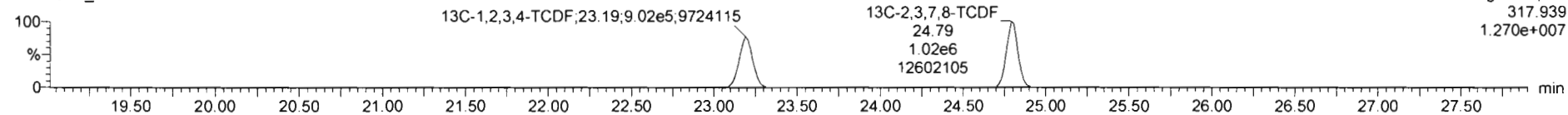


13C-2,3,7,8-TCDF

200306R2_6

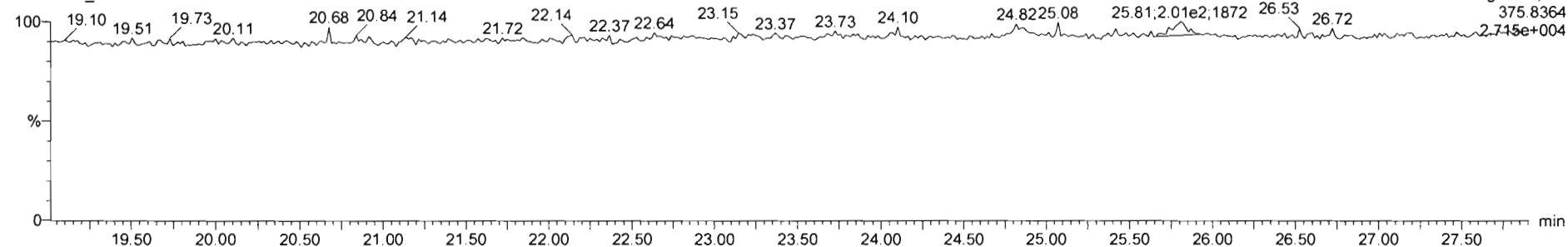


200306R2_6



DPE1

200306R2_6



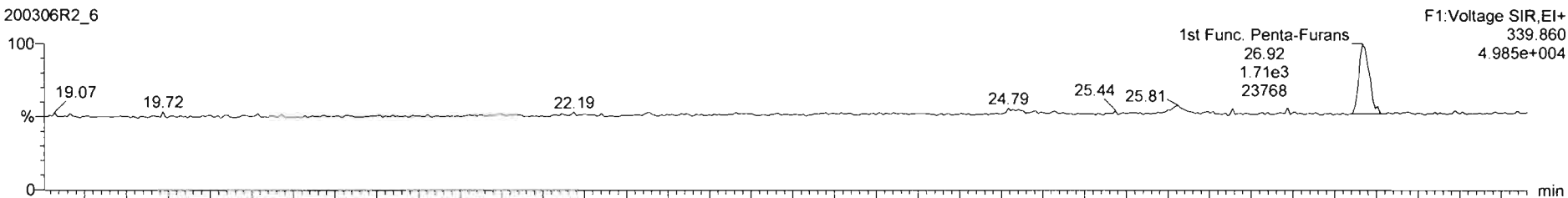
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

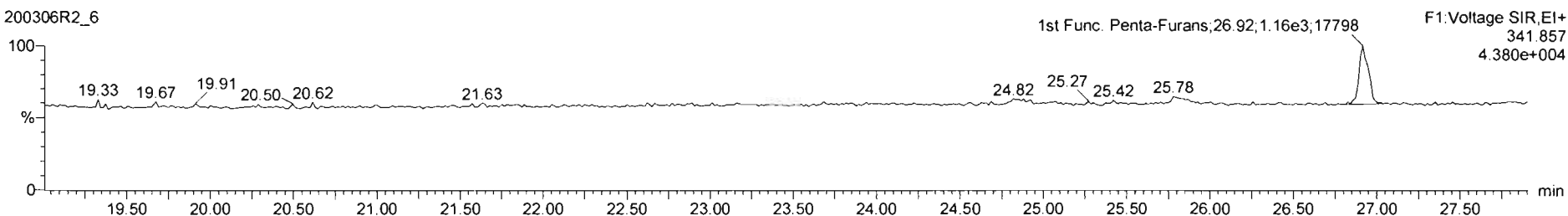
Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

1st Func. Penta-Furans

200306R2_6

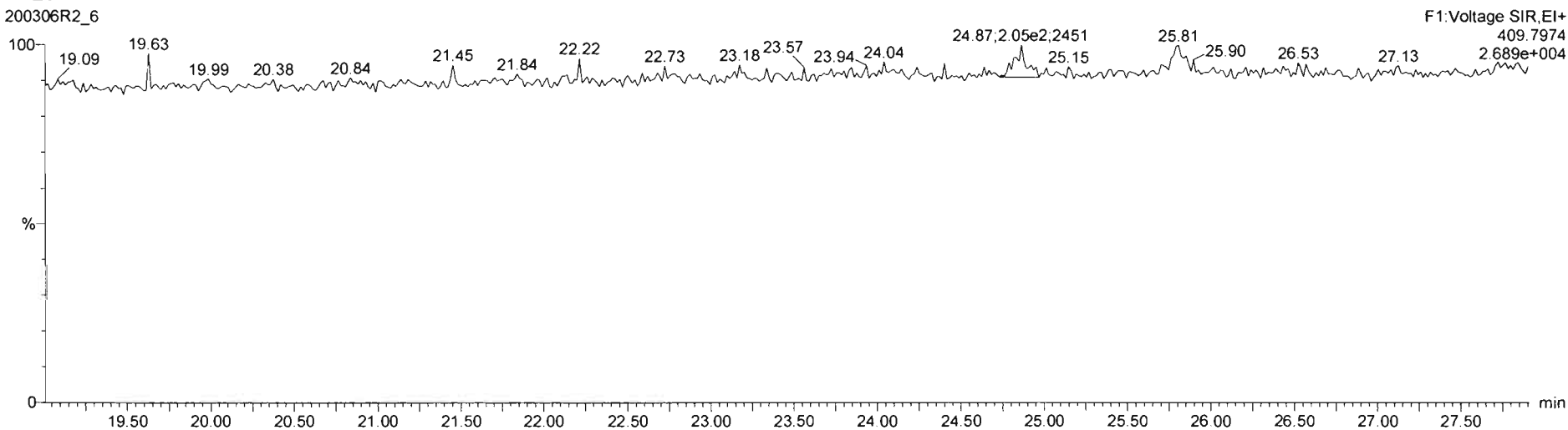


200306R2_6



DPE6

200306R2_6



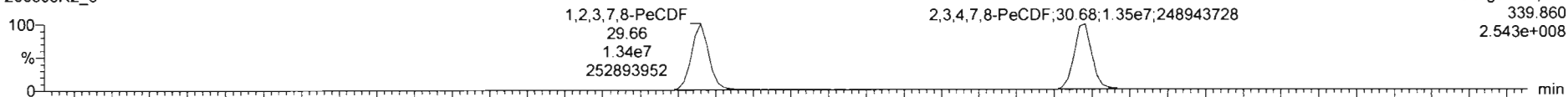
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

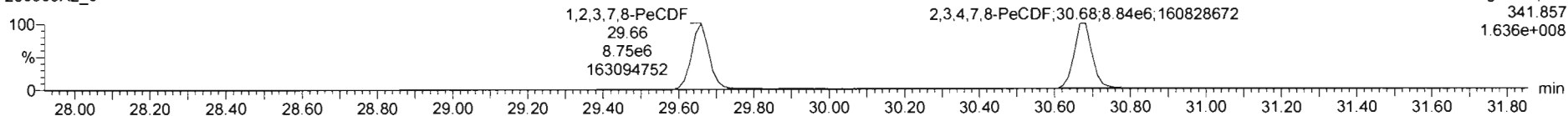
1,2,3,7,8-PeCDF

200306R2_6



F2:Voltage SIR,EI+
339.860
2.543e+008

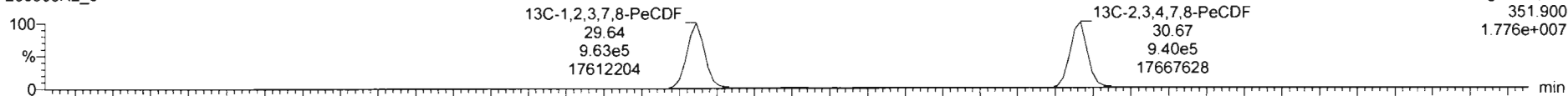
200306R2_6



F2:Voltage SIR,EI+
341.857
1.636e+008

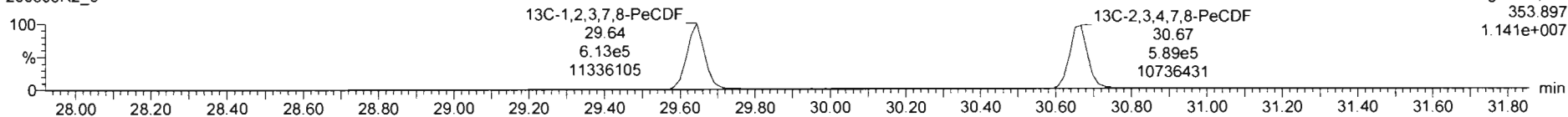
13C-1,2,3,7,8-PeCDF

200306R2_6



F2:Voltage SIR,EI+
351.900
1.776e+007

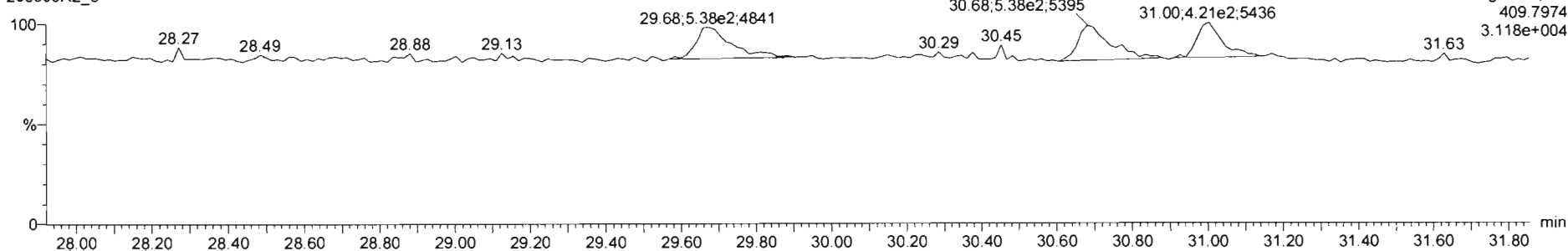
200306R2_6



F2:Voltage SIR,EI+
353.897
1.141e+007

DPE2

200306R2_6



F2:Voltage SIR,EI+
409.7974
3.118e+004

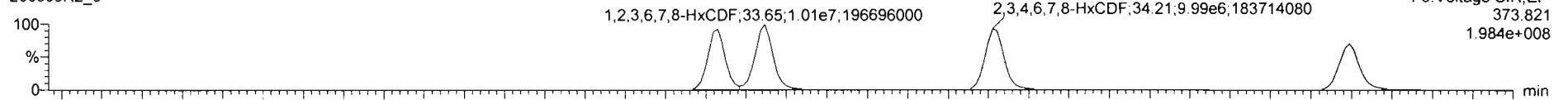
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

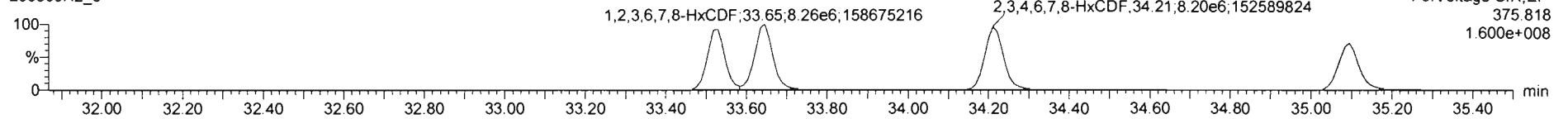
Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200306R2_6

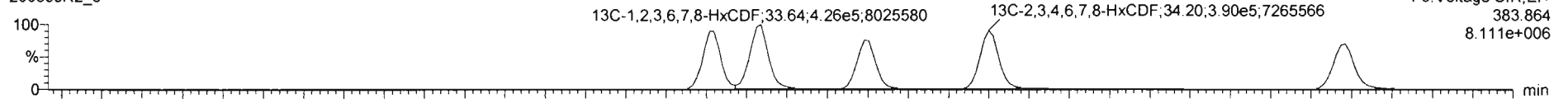


200306R2_6

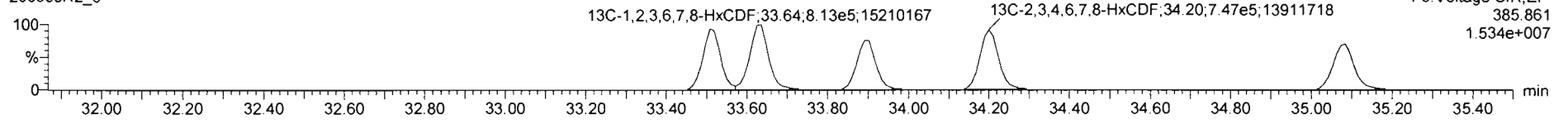


13C-1,2,3,4,7,8-HxCDF

200306R2_6

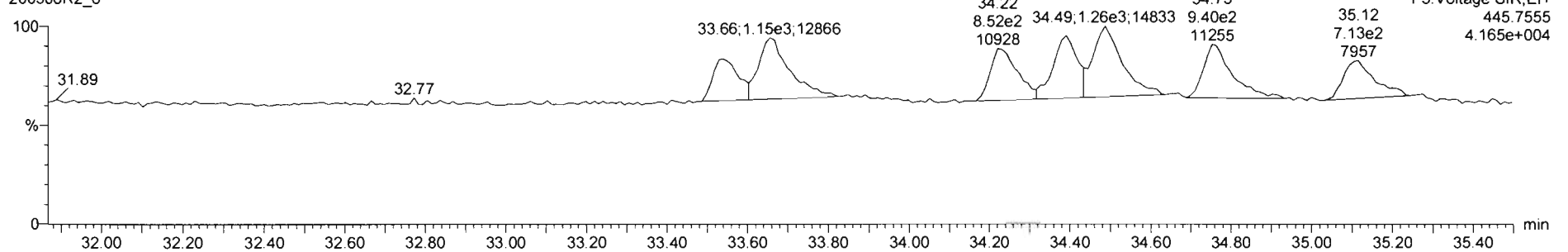


200306R2_6



DPE3

200306R2_6



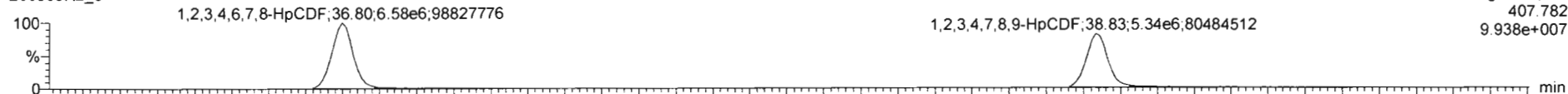
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

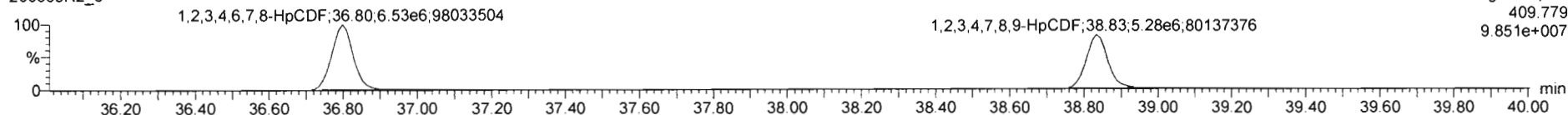
Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200306R2_6

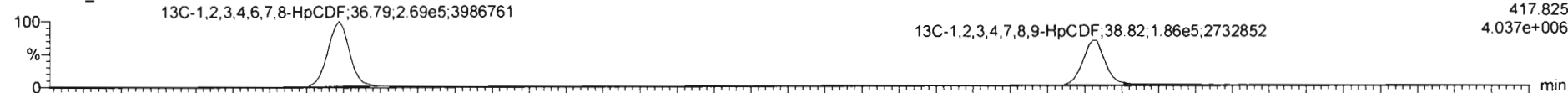


200306R2_6

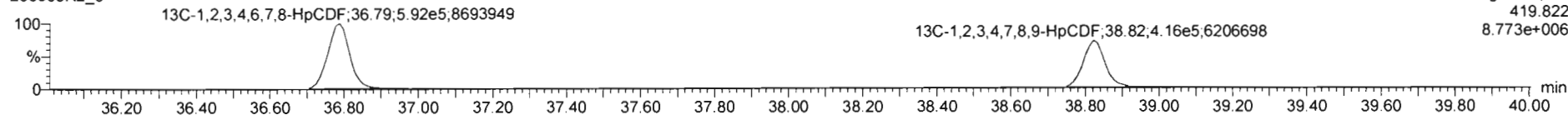


13C-1,2,3,4,6,7,8-HpCDF

200306R2_6

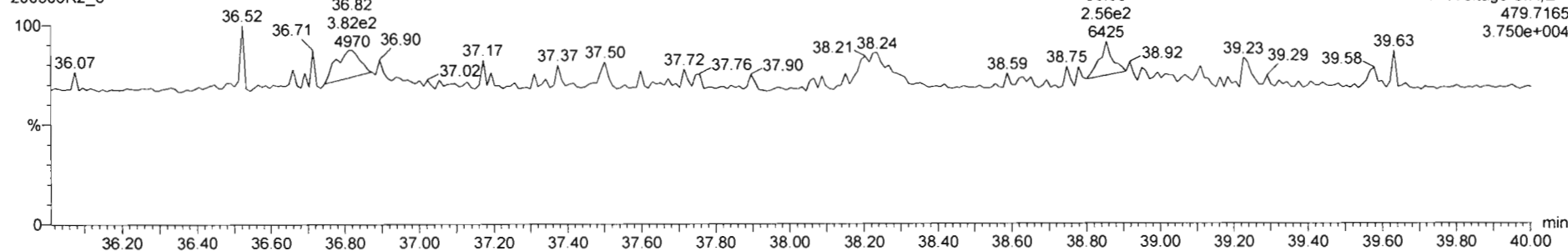


200306R2_6



DPE4

200306R2_6



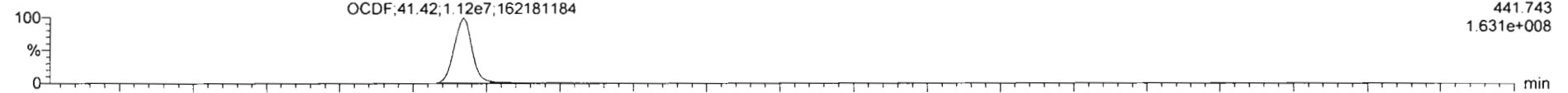
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

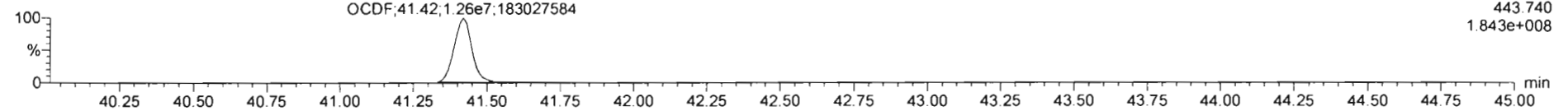
Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

OCDF

200306R2_6

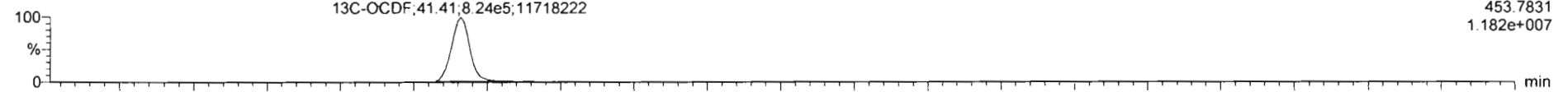


200306R2_6

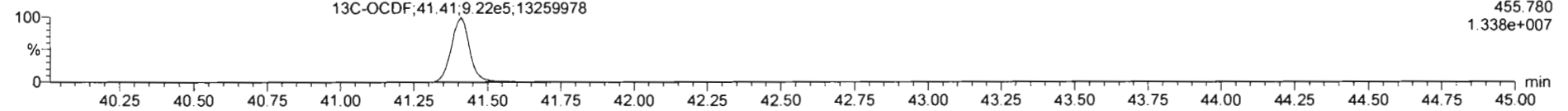


13C-OCDF

200306R2_6

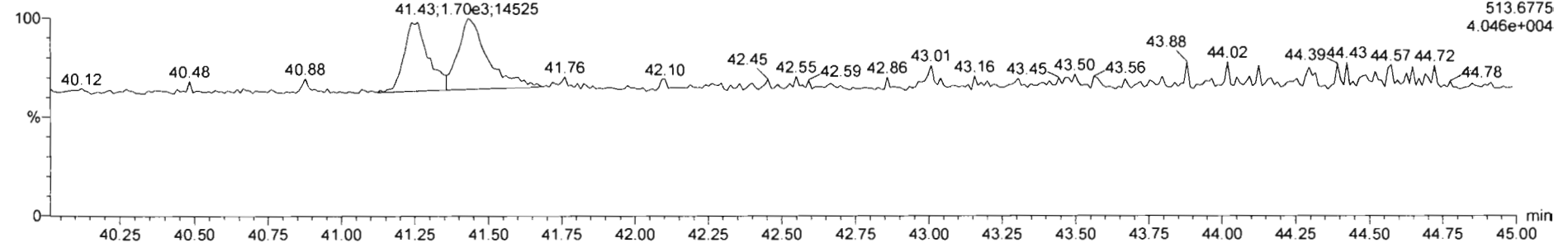


200306R2_6



DPE5

200306R2_6

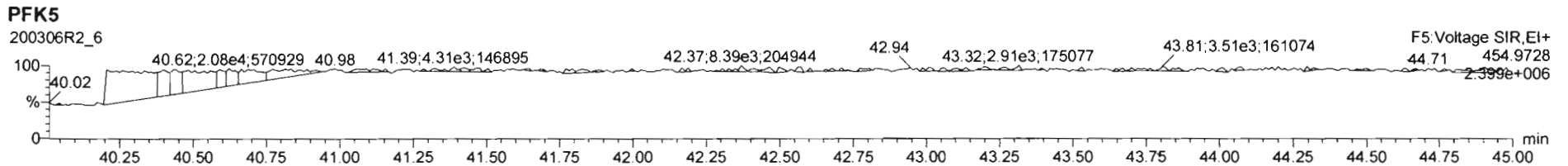
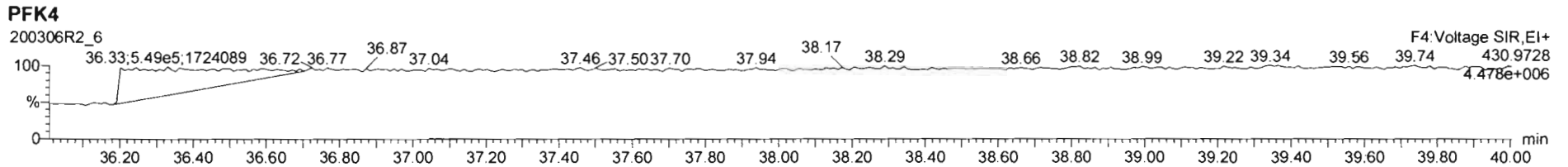
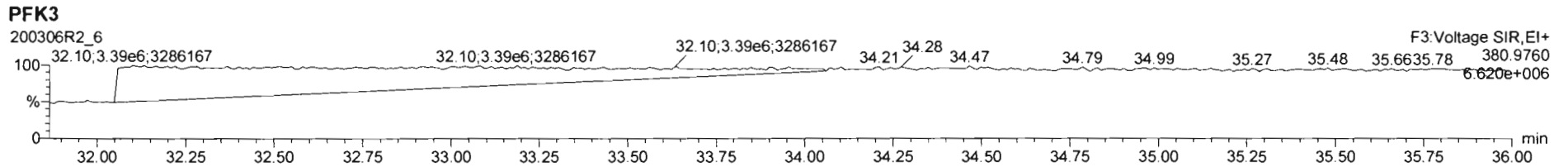
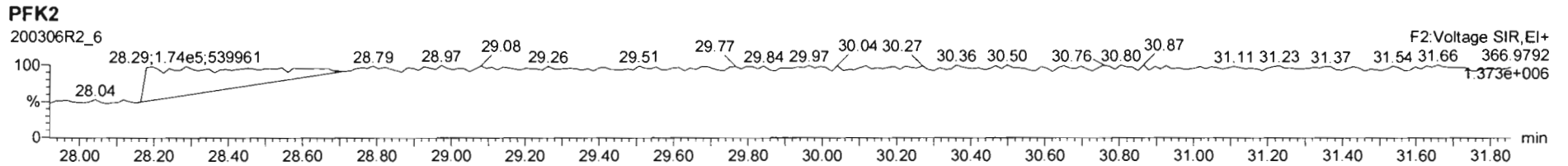
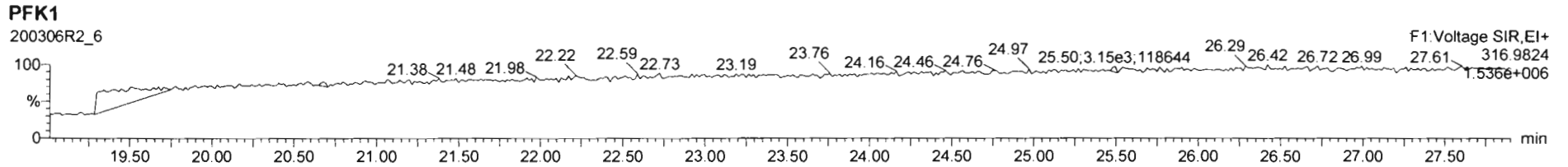


Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

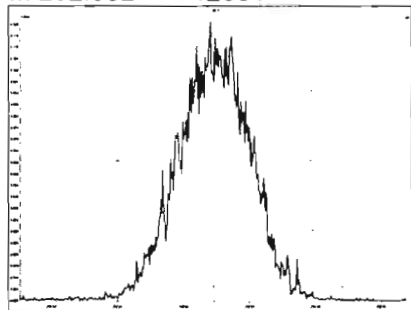
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

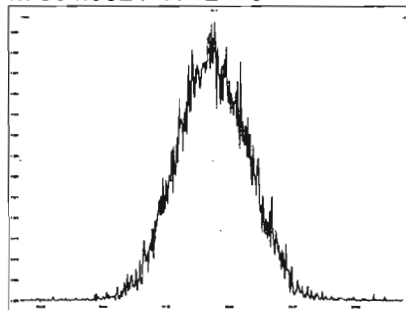


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

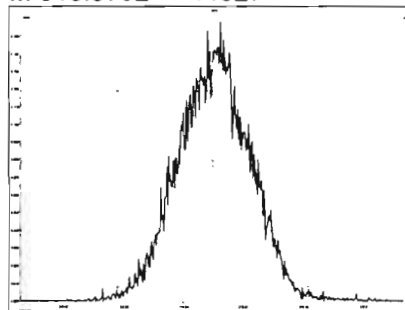
M 292.9824 R 12631



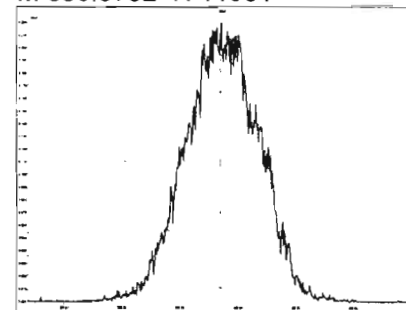
M 304.9824 R 12475



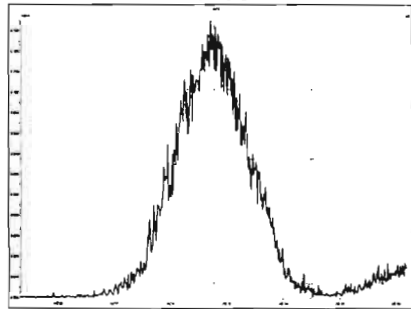
M 318.9792 R 11827



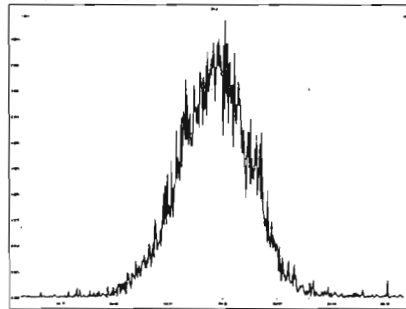
M 330.9792 R 11961



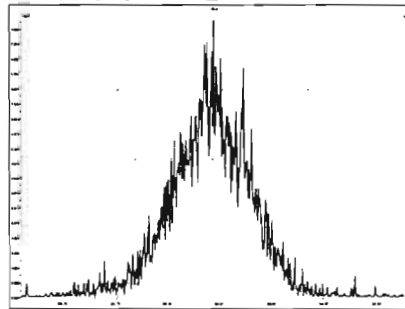
M 342.9792 R 11905



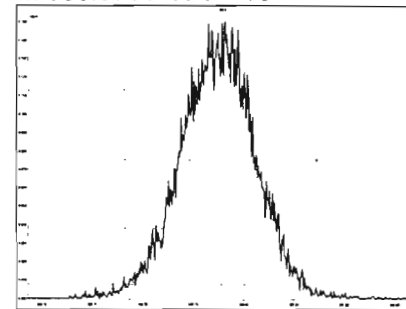
M 354.9792 R 11850



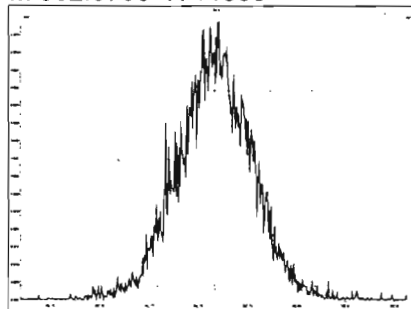
M 366.9792 R 12445



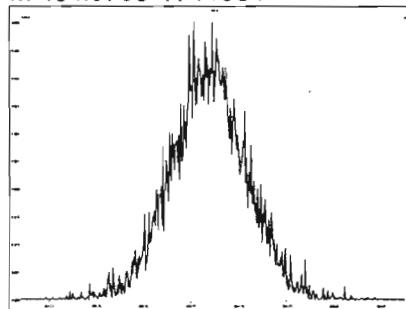
M 380.9760 R 11365



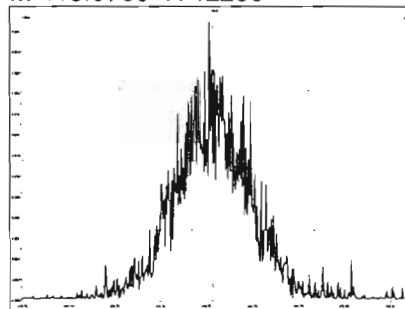
M 392.9760 R 11963



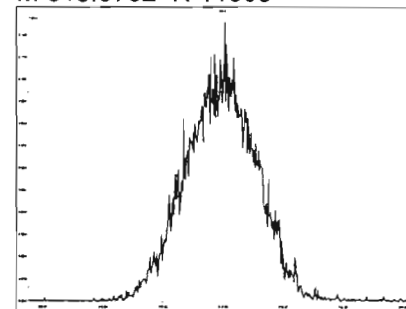
M 404.9760 R 11684



M 416.9760 R 12269

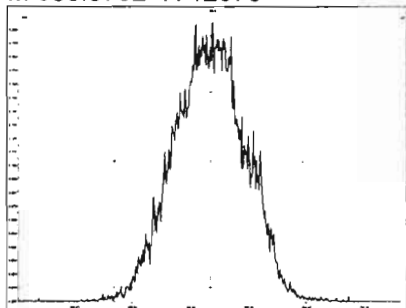


M 318.9792 R 11905

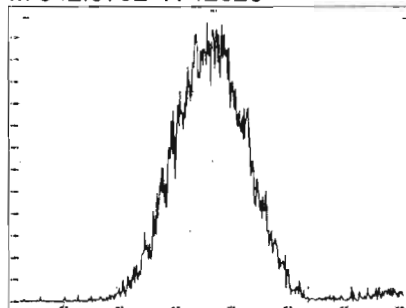


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

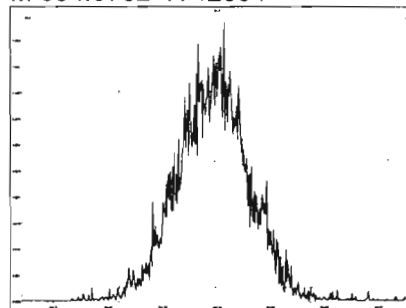
M 330.9792 R 12676



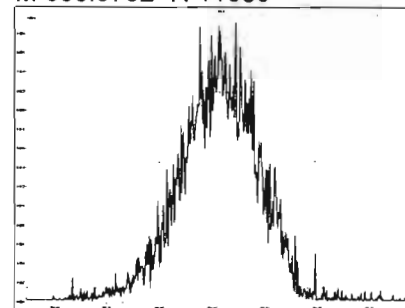
M 342.9792 R 12026



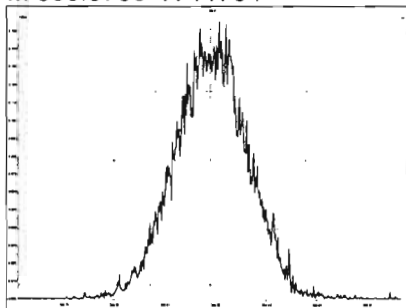
M 354.9792 R 12854



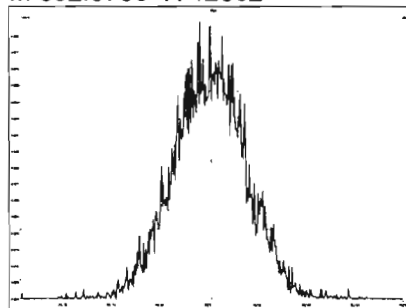
M 366.9792 R 11089



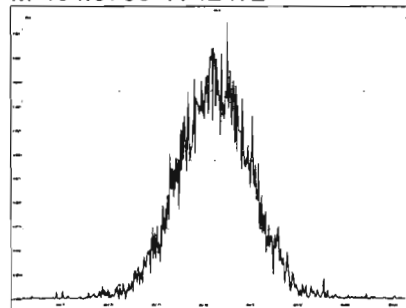
M 380.9760 R 11764



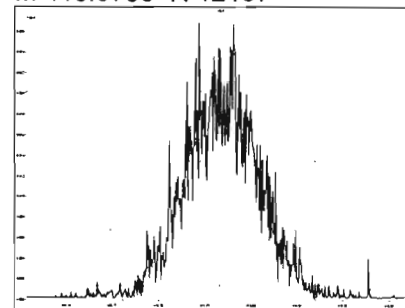
M 392.9760 R 12562



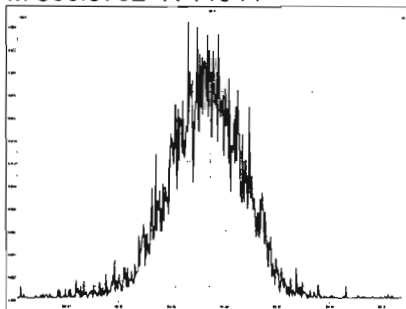
M 404.9760 R 12472



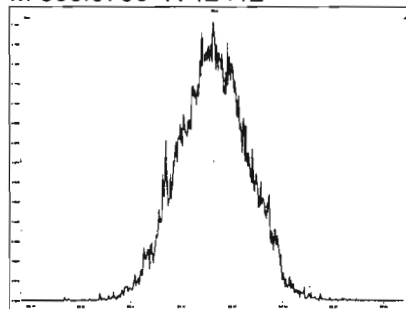
M 416.9760 R 12137



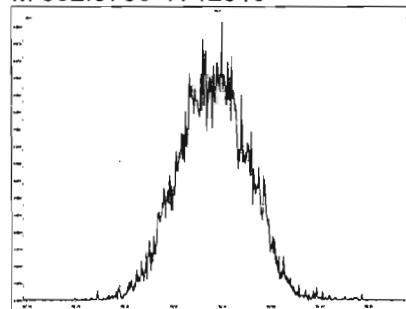
M 366.9792 R 11944



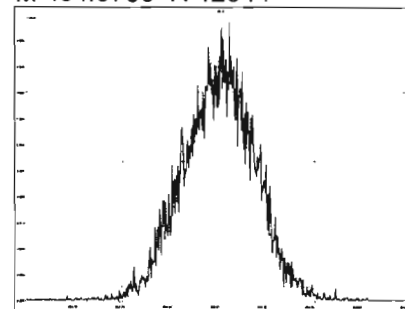
M 380.9760 R 12412



M 392.9760 R 12319

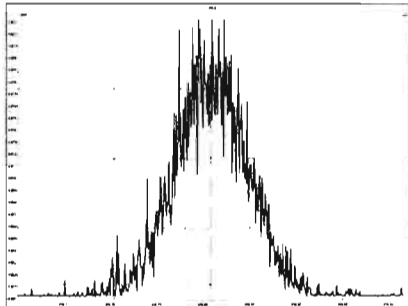


M 404.9760 R 12544

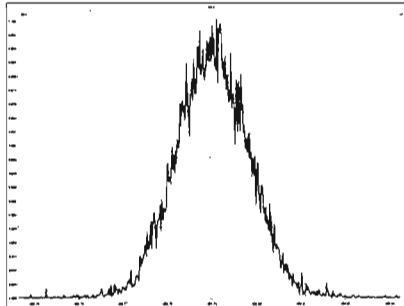


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

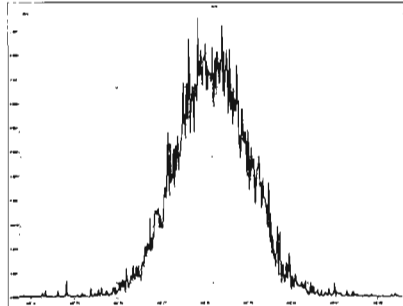
M 416.9760 R 13527



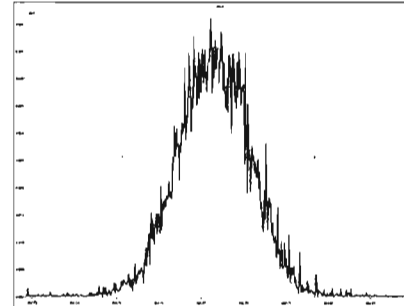
M 430.9728 R 11963



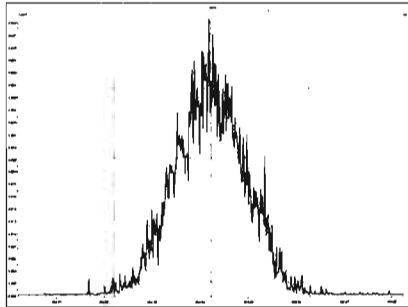
M 442.9728 R 11657



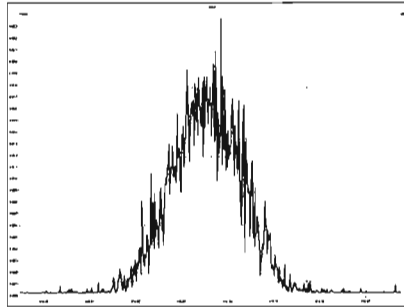
M 454.9728 R 12209



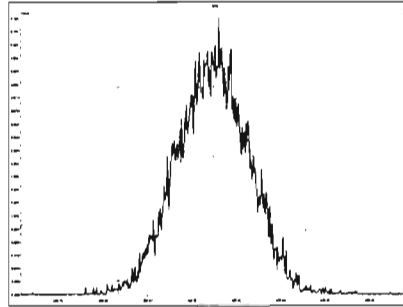
M 404.9760 R 12126



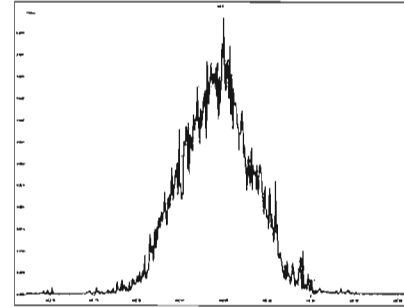
M 416.9760 R 13130



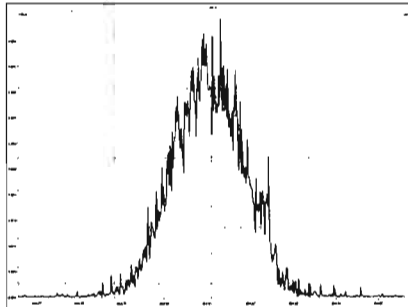
M 430.9728 R 11820



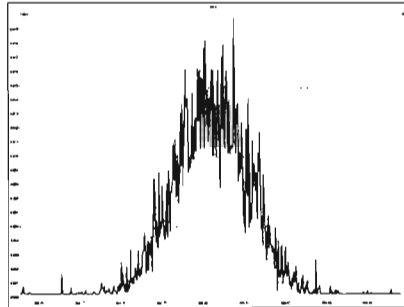
M 442.9728 R 12048



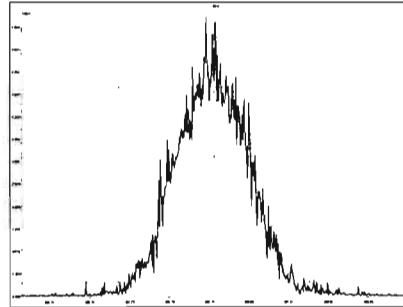
M 454.9728 R 12563



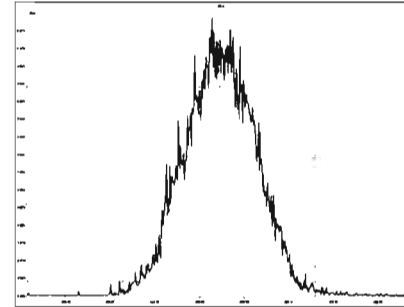
M 466.9728 R 13192



M 480.9696 R 12284

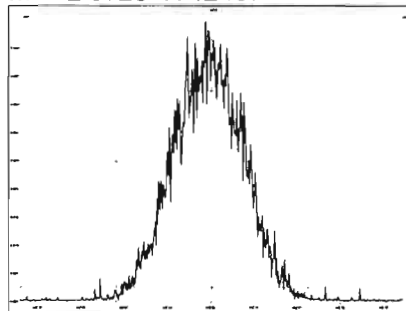


M 430.9728 R 12416

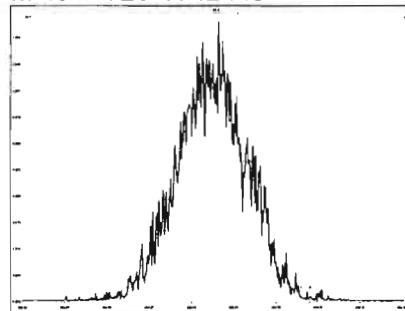


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

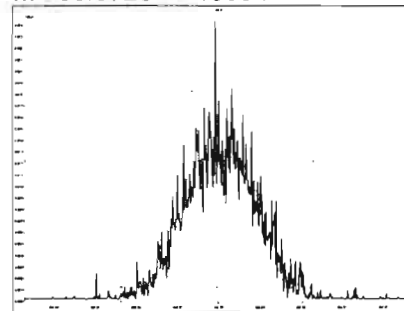
M 442.9728 R 12407



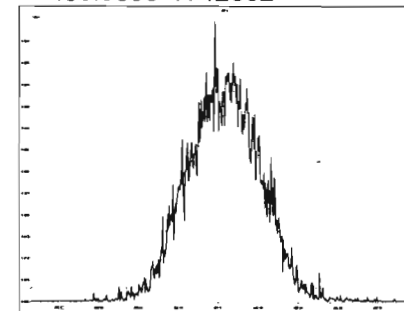
M 454.9728 R 12440



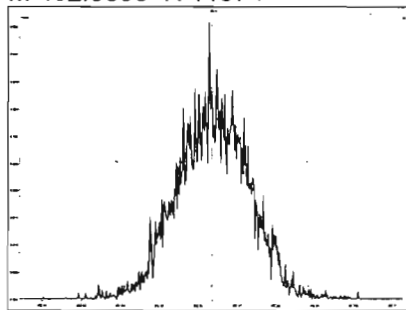
M 466.9728 R 13094



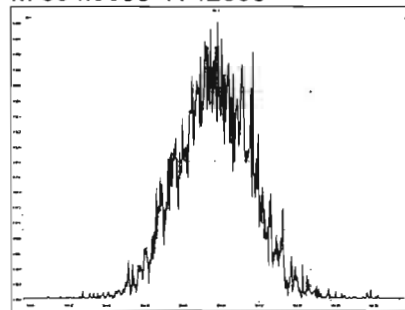
M 480.9696 R 12362



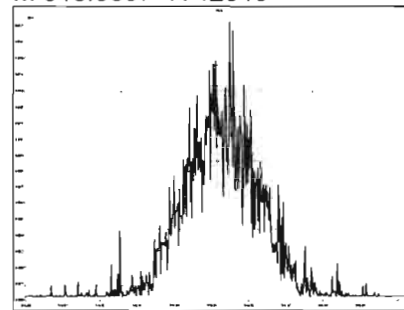
M 492.9696 R 11874



M 504.9696 R 12658



M 516.9697 R 12919



Dataset: U:\VG12.PRO\Results\200306R2\200306R2-8.qld

Last Altered: Monday, March 09, 2020 09:14:18 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:15:42 Pacific Daylight Time

GRB 03/09/2020

0703/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	9.28e4	0.77	NO	0.983	1.000	25.781	25.78	1.001	1.001	10.508	105	0.0462	10.5
2	2 1,2,3,7,8-PeCDD	3.71e5	0.63	NO	0.921	1.000	30.979	30.97	1.001	1.000	54.038	108	0.0655	54.0
3	3 1,2,3,4,7,8-HxCDD	3.32e5	1.24	NO	1.13	1.000	34.349	34.36	1.000	1.001	53.824	108	0.101	53.8
4	4 1,2,3,6,7,8-HxCDD	3.81e5	1.27	NO	0.984	1.000	34.445	34.46	1.000	1.000	57.230	114	0.0994	57.2
5	5 1,2,3,7,8,9-HxCDD	3.33e5	1.22	NO	0.967	1.000	34.722	34.72	1.000	1.000	56.617	113	0.117	56.6
6	6 1,2,3,4,6,7,8-HpCDD	2.52e5	1.04	NO	1.01	1.000	38.184	38.19	1.000	1.001	55.470	111	0.201	55.5
7	7 OCDD	4.61e5	0.91	NO	1.05	1.000	41.208	41.22	1.000	1.000	104.33	104	0.212	104
8	8 2,3,7,8-TCDF	1.19e5	0.80	NO	0.915	1.000	24.817	24.81	1.001	1.001	10.876	109	0.0390	10.9
9	9 1,2,3,7,8-PeCDF	5.58e5	1.55	NO	0.959	1.000	29.635	29.63	1.001	1.001	53.583	107	0.0901	53.6
10	10 2,3,4,7,8-PeCDF	6.50e5	1.53	NO	1.00	1.000	30.667	30.65	1.001	1.000	60.478	121	0.0822	60.5
11	11 1,2,3,4,7,8-HxCDF	4.39e5	1.22	NO	1.04	1.000	33.486	33.50	1.000	1.000	56.277	113	0.116	56.3
12	12 1,2,3,6,7,8-HxCDF	4.83e5	1.22	NO	1.01	1.000	33.614	33.63	1.000	1.001	58.225	116	0.120	58.2
13	13 2,3,4,6,7,8-HxCDF	4.58e5	1.23	NO	1.09	1.000	34.213	34.19	1.001	1.000	53.808	108	0.121	53.8
14	14 1,2,3,7,8,9-HxCDF	3.65e5	1.23	NO	1.03	1.000	35.052	35.06	1.000	1.000	54.692	109	0.173	54.7
15	15 1,2,3,4,6,7,8-HpCDF	3.38e5	1.03	NO	1.05	1.000	36.793	36.78	1.001	1.001	55.962	112	0.171	56.0
16	16 1,2,3,4,7,8,9-HpCDF	2.60e5	1.01	NO	1.21	1.000	38.801	38.81	1.000	1.000	55.091	110	0.218	55.1
17	17 OCDF	5.30e5	0.88	NO	0.947	1.000	41.389	41.40	1.000	1.000	107.93	108	0.154	108
18	18 13C-2,3,7,8-TCDD	8.98e5	0.78	NO	1.18	1.000	25.781	25.75	1.029	1.027	94.504	94.5	0.106	
19	19 13C-1,2,3,7,8-PeCDD	7.45e5	0.64	NO	0.864	1.000	30.974	30.96	1.236	1.235	107.38	107	0.187	
20	20 13C-1,2,3,4,7,8-HxCDD	5.45e5	1.26	NO	0.754	1.000	34.341	34.34	1.014	1.014	85.136	85.1	0.201	
21	21 13C-1,2,3,6,7,8-HxCDD	6.77e5	1.26	NO	0.925	1.000	34.449	34.45	1.017	1.017	86.121	86.1	0.164	
22	22 13C-1,2,3,7,8,9-HxCDD	6.09e5	1.27	NO	0.829	1.000	34.710	34.71	1.025	1.025	86.383	86.4	0.183	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.51e5	1.04	NO	0.598	1.000	38.158	38.17	1.127	1.127	88.689	88.7	0.205	
24	24 13C-OCDD	8.40e5	0.87	NO	0.571	1.000	41.298	41.21	1.219	1.217	173.12	86.6	0.205	
25	25 13C-2,3,7,8-TCDF	1.19e6	0.78	NO	1.09	1.000	24.801	24.79	0.990	0.989	86.829	86.8	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.09e6	1.58	NO	0.876	1.000	29.643	29.61	1.183	1.182	98.396	98.4	0.243	
27	27 13C-2,3,4,7,8-PeCDF	1.07e6	1.60	NO	0.844	1.000	30.655	30.64	1.223	1.222	100.81	101	0.253	
28	28 13C-1,2,3,4,7,8-HxCDF	7.52e5	0.52	NO	1.00	1.000	33.491	33.49	0.989	0.989	88.441	88.4	0.228	
29	29 13C-1,2,3,6,7,8-HxCDF	8.18e5	0.53	NO	1.12	1.000	33.599	33.60	0.992	0.992	86.171	86.2	0.204	
30	30 13C-2,3,4,6,7,8-HxCDF	7.80e5	0.52	NO	1.04	1.000	34.178	34.18	1.009	1.009	88.698	88.7	0.220	
31	31 13C-1,2,3,7,8,9-HxCDF	6.50e5	0.50	NO	0.873	1.000	35.049	35.05	1.035	1.035	87.589	87.6	0.261	

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-8.qld

Last Altered: Monday, March 09, 2020 09:14:18 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:15:42 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.76e5	0.45	NO	0.771	1.000	36.759	36.76	1.085	1.085	87.916	87.9	0.211	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.91e5	0.44	NO	0.519	1.000	38.839	38.80	1.147	1.146	88.538	88.5	0.314	
34	34 13C-OCDF	1.04e6	0.90	NO	0.696	1.000	41.477	41.39	1.225	1.222	175.32	87.7	0.183	
35	35 37Cl-2,3,7,8-TCDD	9.59e4			1.17	1.000	25.791	25.78	1.029	1.029	10.173	102	0.0234	
36	36 13C-1,2,3,4-TCDD	8.02e5	0.79	NO	1.00	1.000	25.050	25.06	1.000	1.000	100.00	100	0.126	
37	37 13C-1,2,3,4-TCDF	1.26e6	0.80	NO	1.00	1.000	23.190	23.19	1.000	1.000	100.00	100	0.156	
38	38 13C-1,2,3,4,6,9-HxCDF	8.50e5	0.51	NO	1.00	1.000	33.880	33.87	1.000	1.000	100.00	100	0.228	

Dataset: Untitled

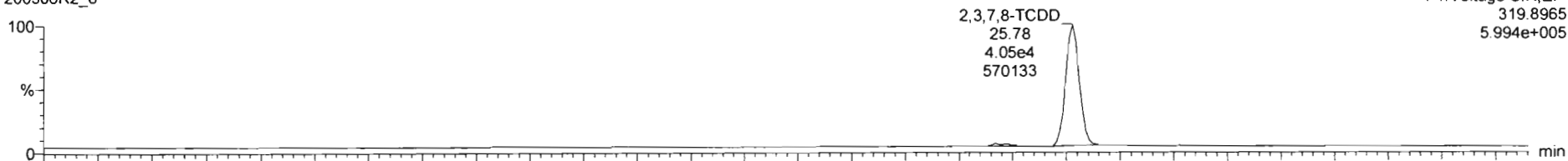
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

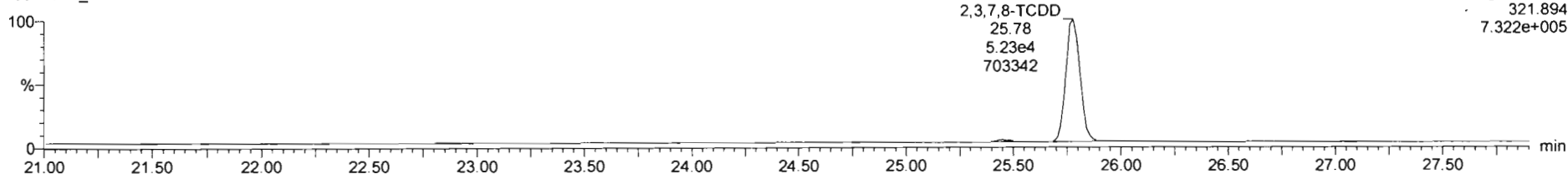
Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDD

200306R2_8

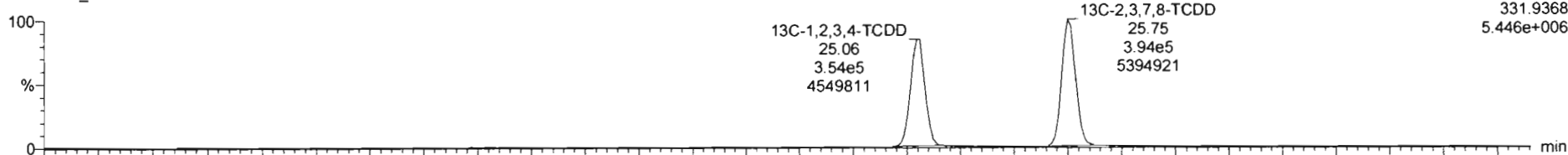


200306R2_8

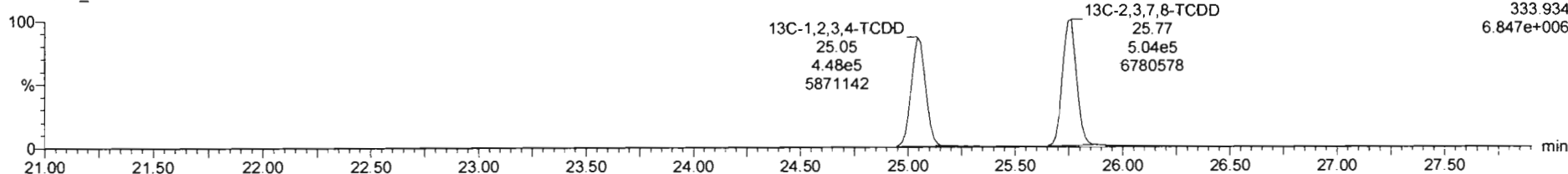


13C-2,3,7,8-TCDD

200306R2_8



200306R2_8



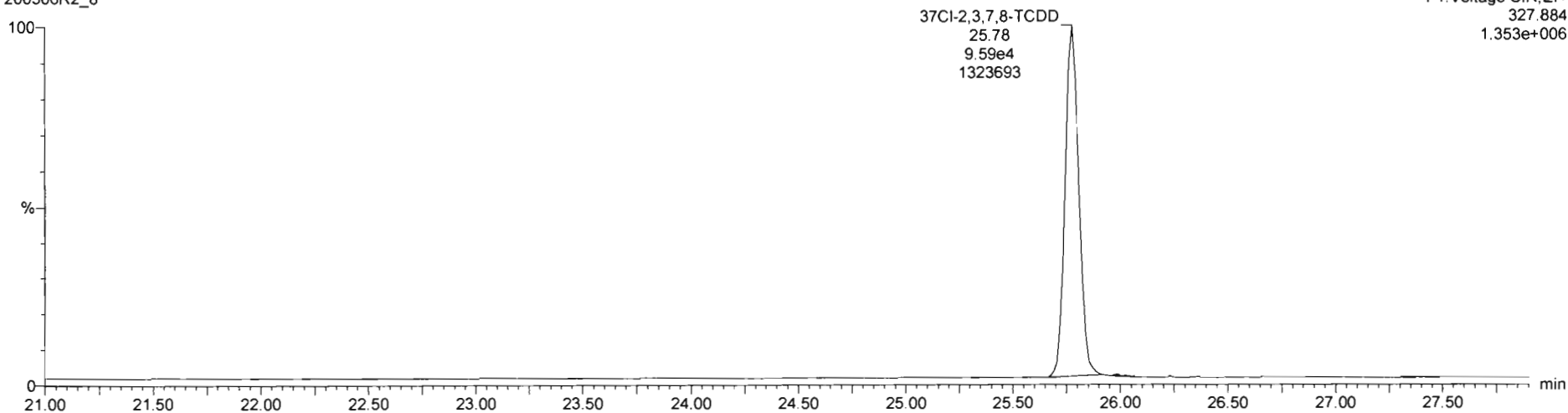
Dataset: Untitled

Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

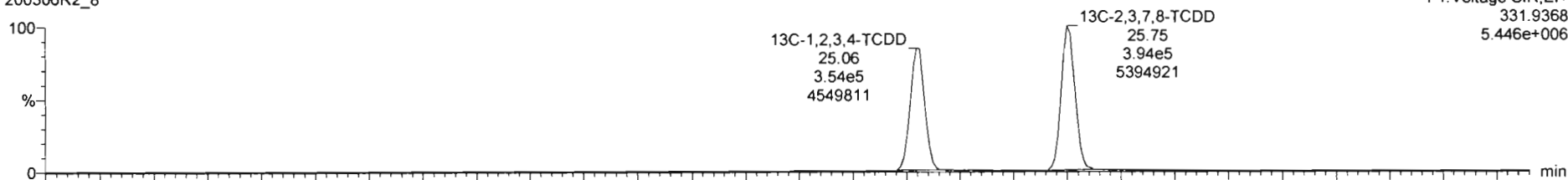
37Cl-2,3,7,8-TCDD

200306R2_8

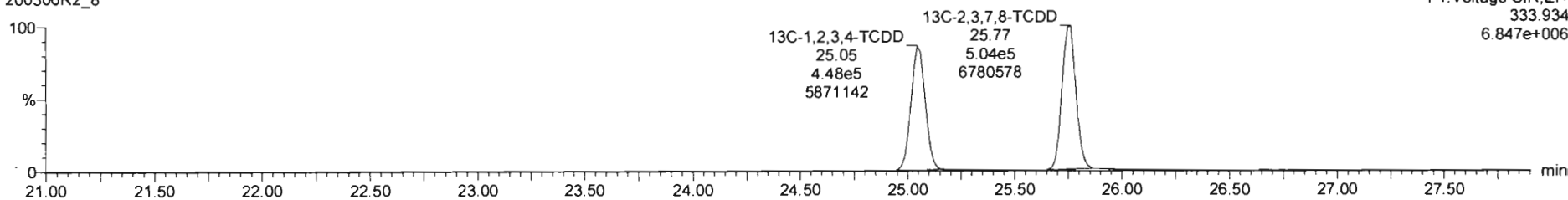


13C-1,2,3,4-TCDD

200306R2_8



200306R2_8



Dataset: Untitled

Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

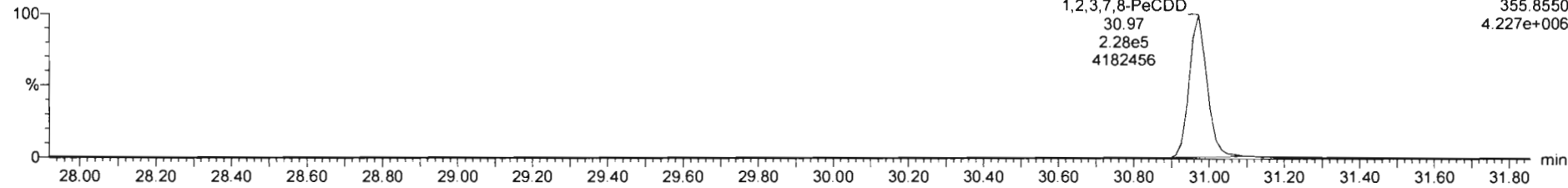
1,2,3,7,8-PeCDD

200306R2_8



F2: Voltage SIR, EI+
353.8576
2.633e+006

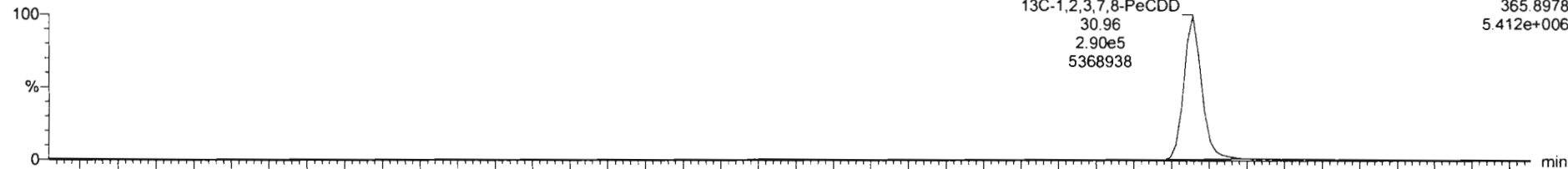
200306R2_8



F2: Voltage SIR, EI+
355.8550
4.227e+006

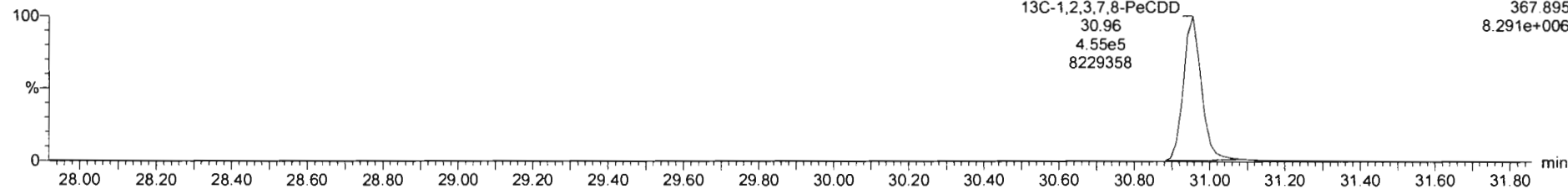
13C-1,2,3,7,8-PeCDD

200306R2_8



F2: Voltage SIR, EI+
365.8978
5.412e+006

200306R2_8



F2: Voltage SIR, EI+
367.895
8.291e+006

Dataset: Untitled

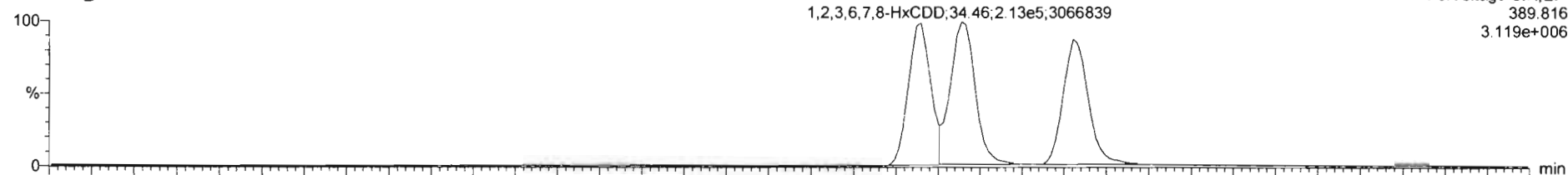
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

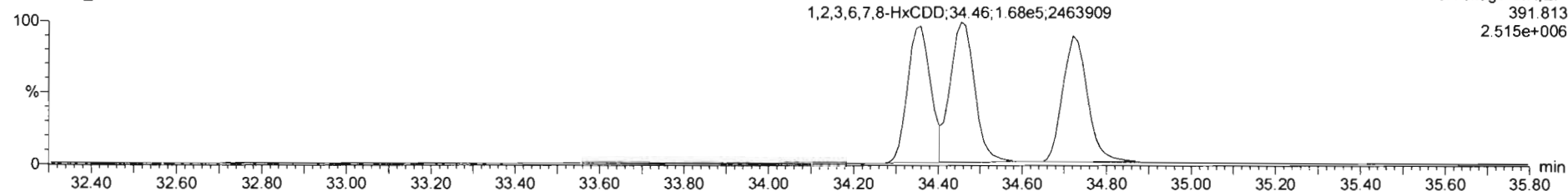
Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200306R2_8

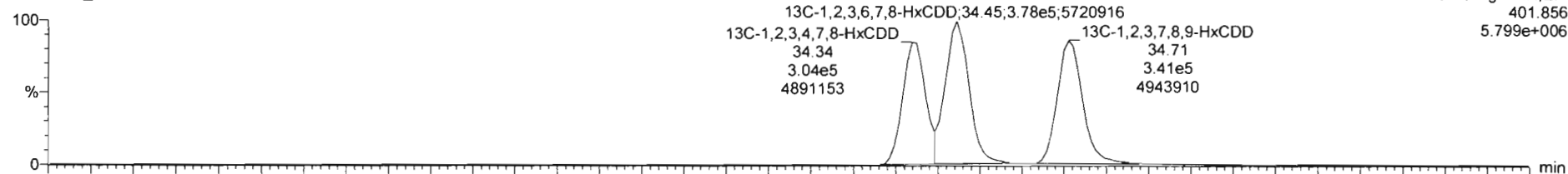


200306R2_8

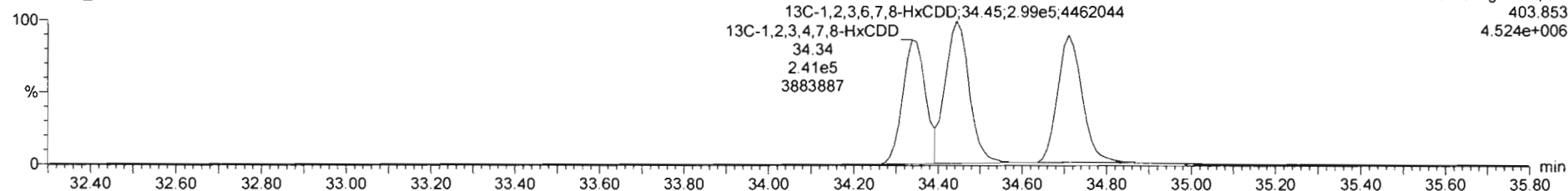


13C-1,2,3,4,7,8-HxCDD

200306R2_8



200306R2_8



Dataset: Untitled

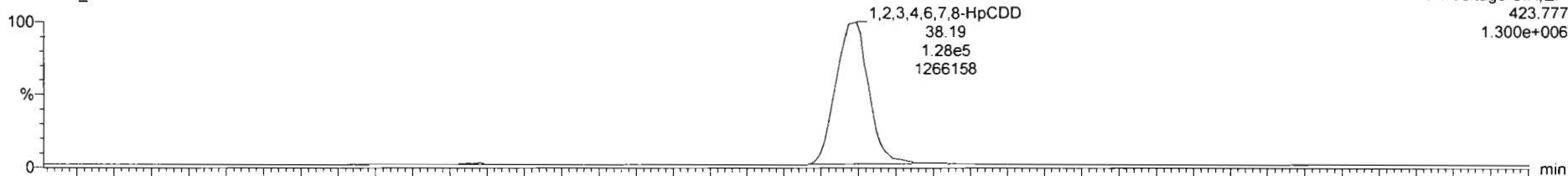
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

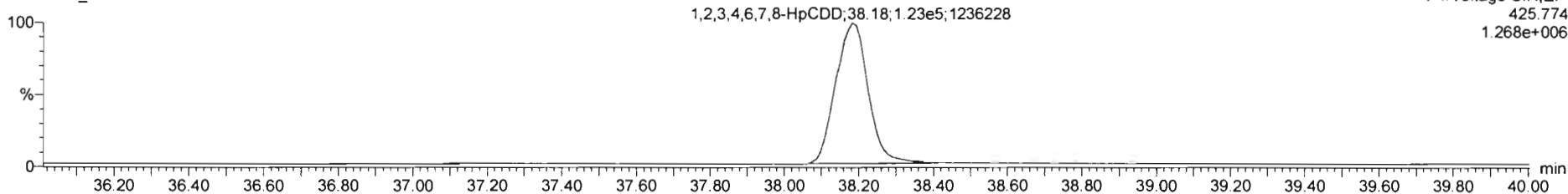
1,2,3,4,6,7,8-HpCDD

200306R2_8



F4: Voltage SIR, EI+
423.777
1.300e+006

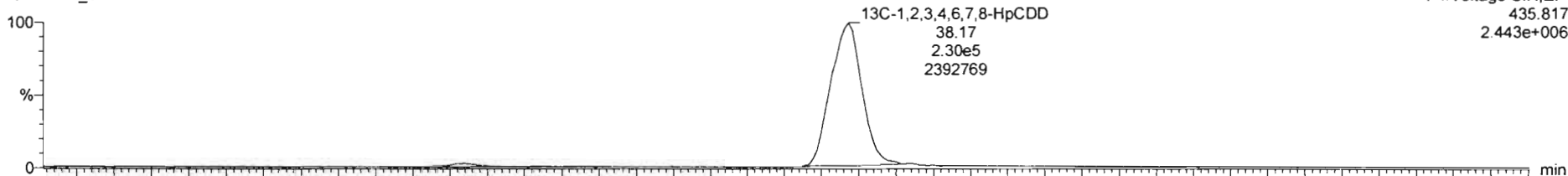
200306R2_8



F4: Voltage SIR, EI+
425.774
1.268e+006

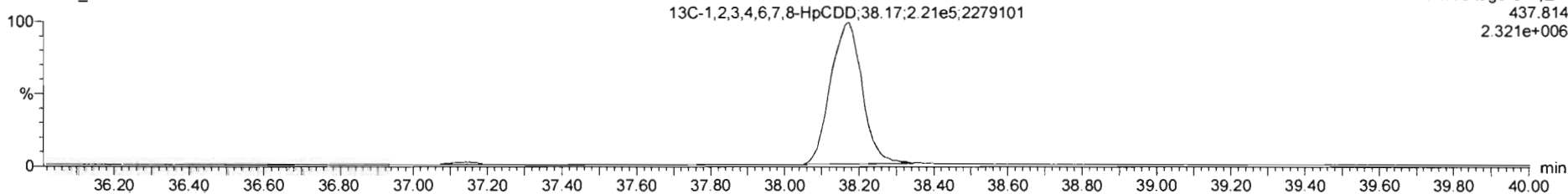
13C-1,2,3,4,6,7,8-HpCDD

200306R2_8



F4: Voltage SIR, EI+
435.817
2.443e+006

200306R2_8



F4: Voltage SIR, EI+
437.814
2.321e+006

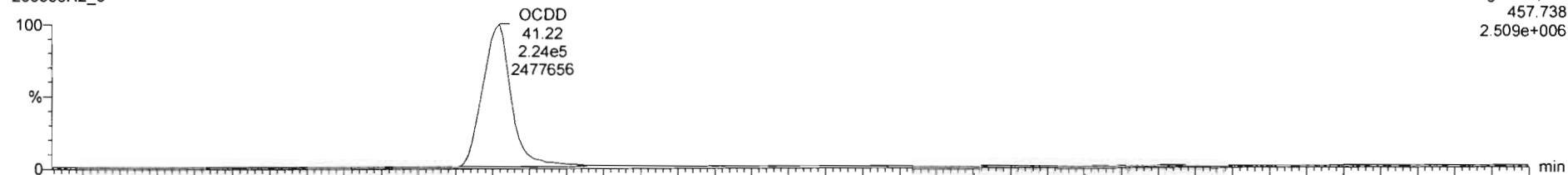
Dataset: Untitled

Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

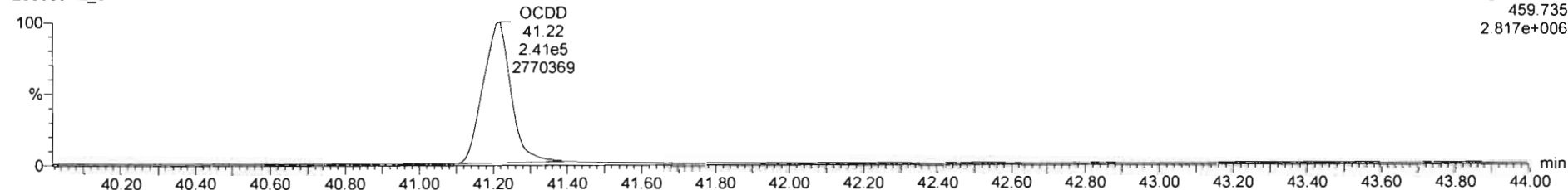
Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

OCDD

200306R2_8

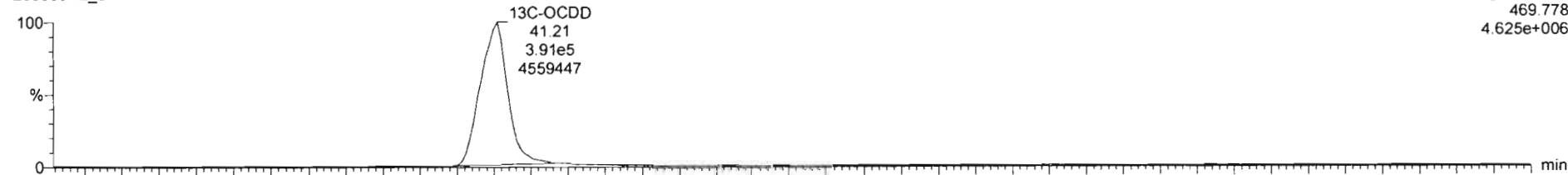


200306R2_8

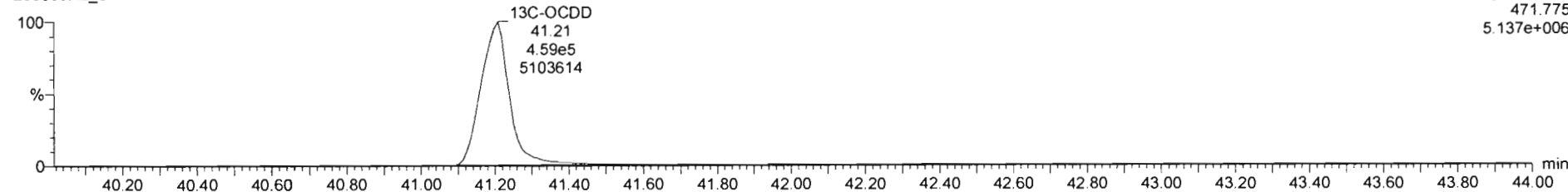


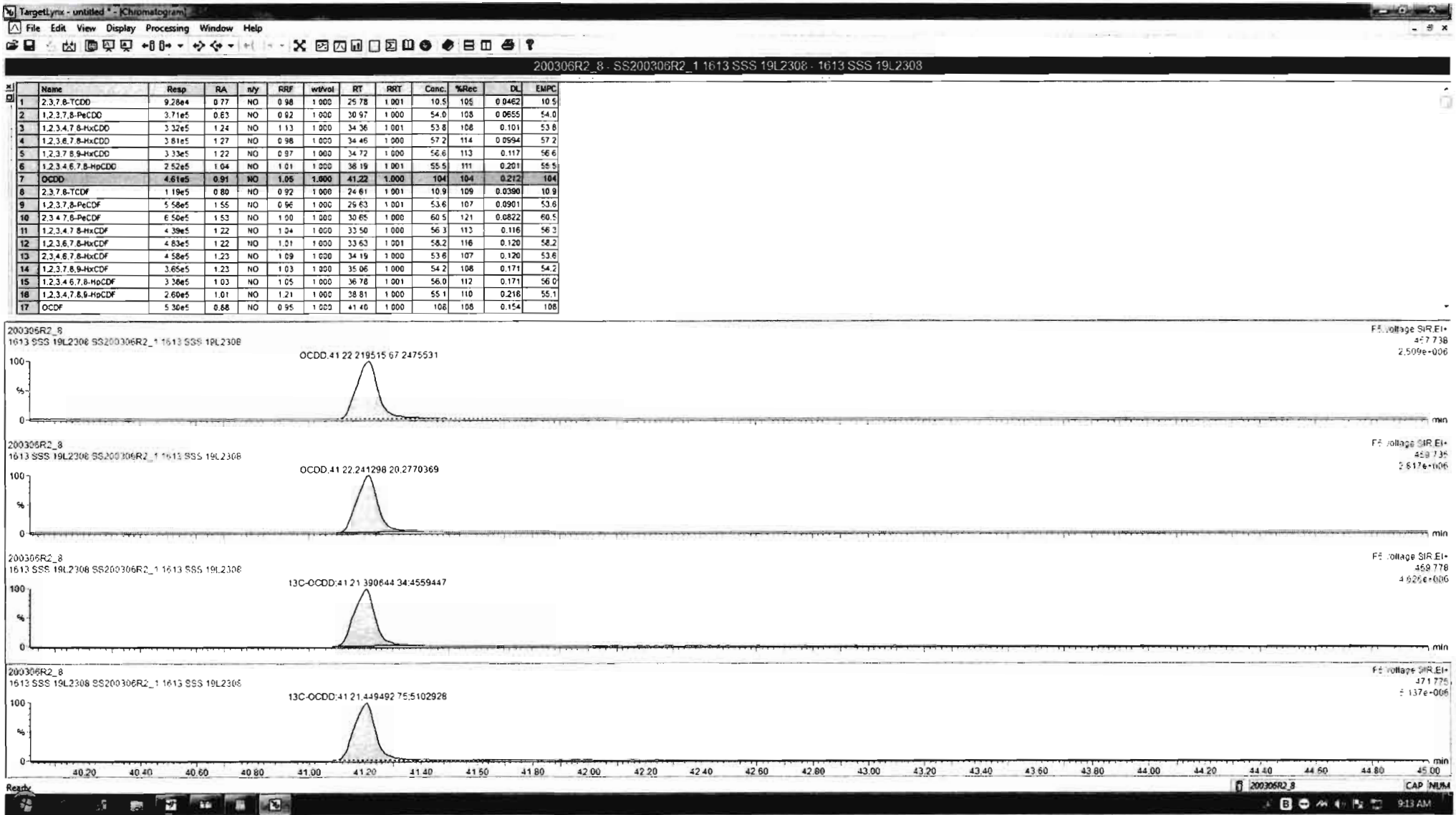
13C-OCDD

200306R2_8



200306R2_8





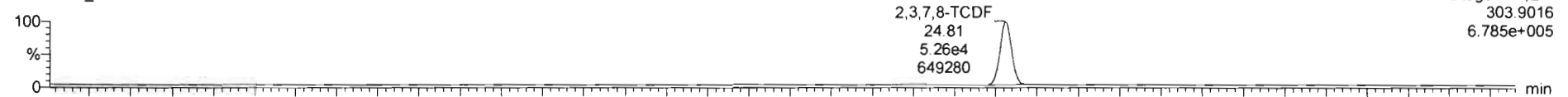
Dataset: Untitled

Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

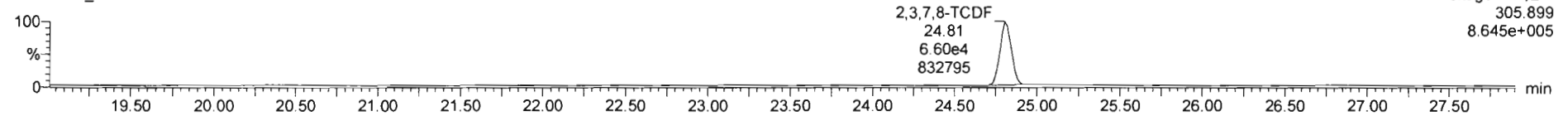
2,3,7,8-TCDF

200306R2_8



F1:Voltage SIR,EI+
303.9016
6.785e+005

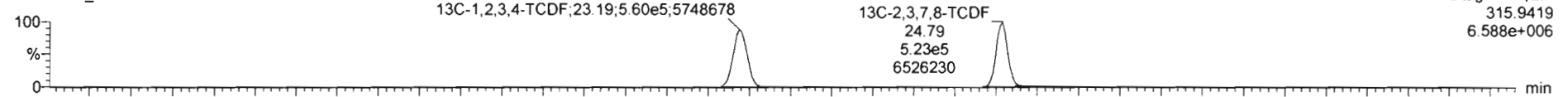
200306R2_8



F1:Voltage SIR,EI+
305.899
8.645e+005

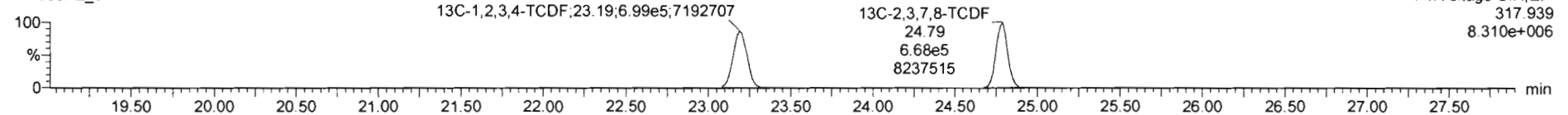
13C-2,3,7,8-TCDF

200306R2_8



F1:Voltage SIR,EI+
315.9419
6.588e+006

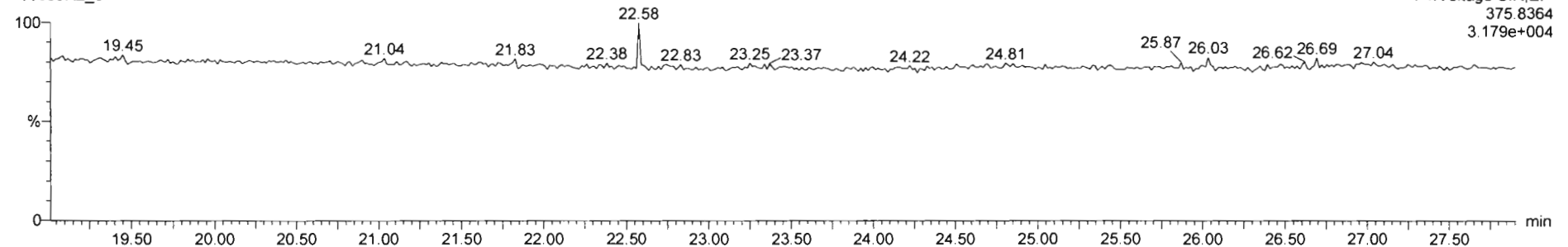
200306R2_8



F1:Voltage SIR,EI+
317.939
8.310e+006

DPE1

200306R2_8



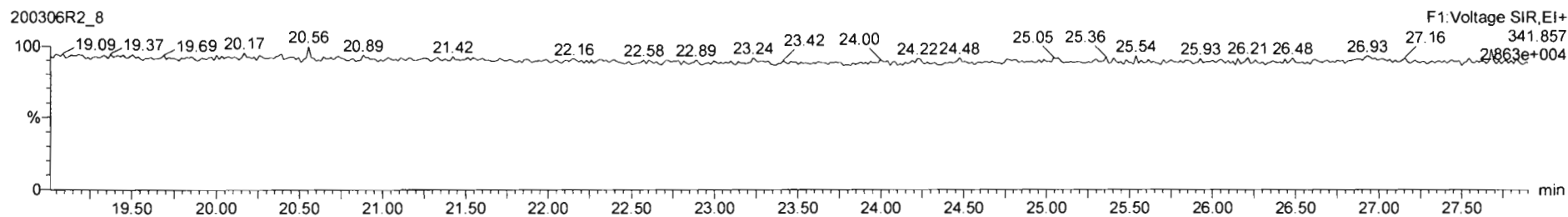
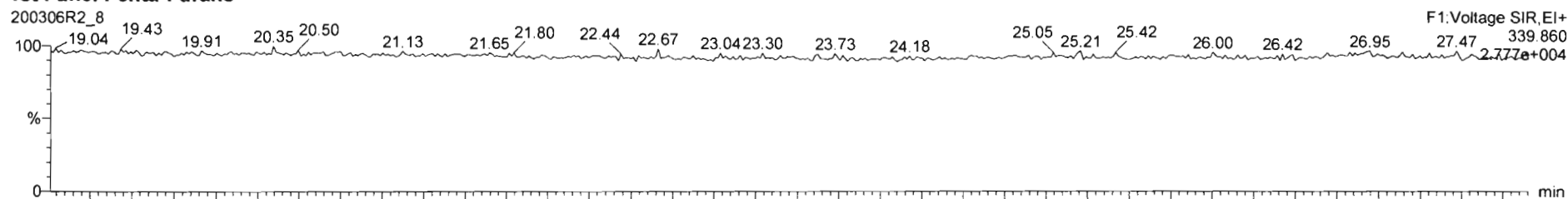
F1:Voltage SIR,EI+
375.8364
3.179e+004

Dataset: Untitled

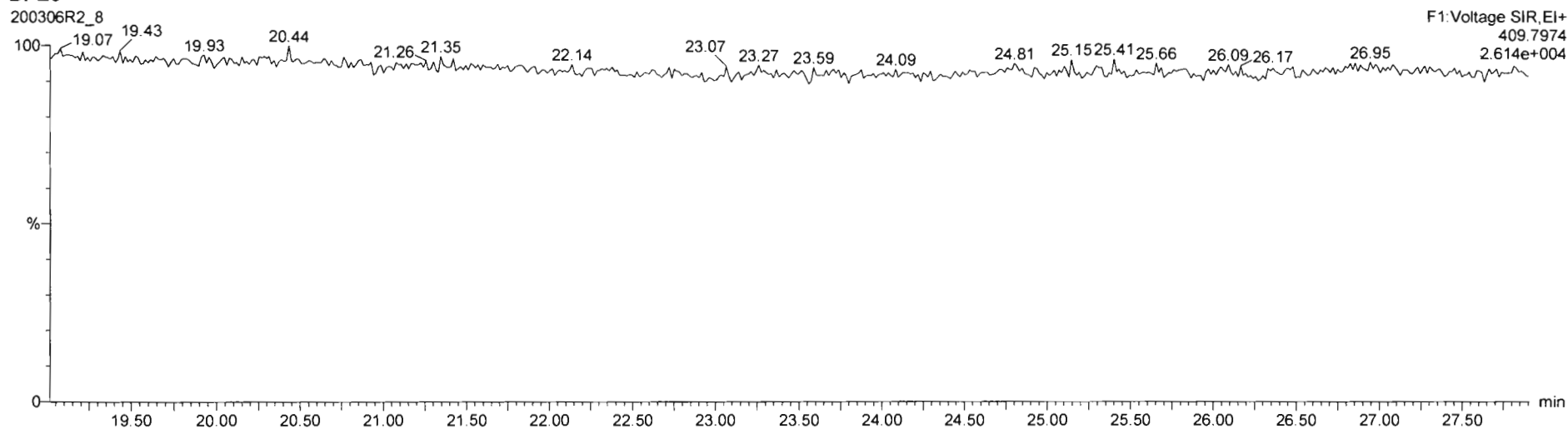
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



DPE6



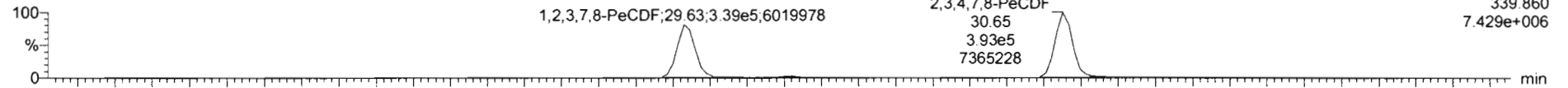
Dataset: Untitled

Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

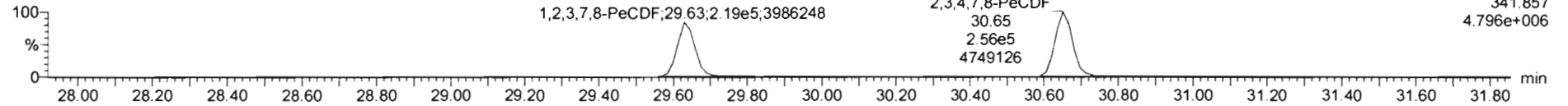
Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,7,8-PeCDF

200306R2_8

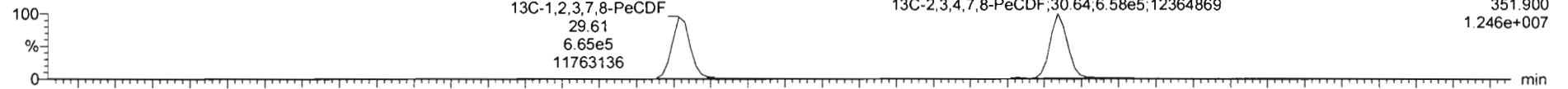


200306R2_8

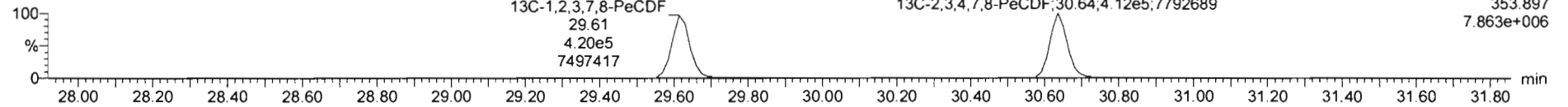


13C-1,2,3,7,8-PeCDF

200306R2_8

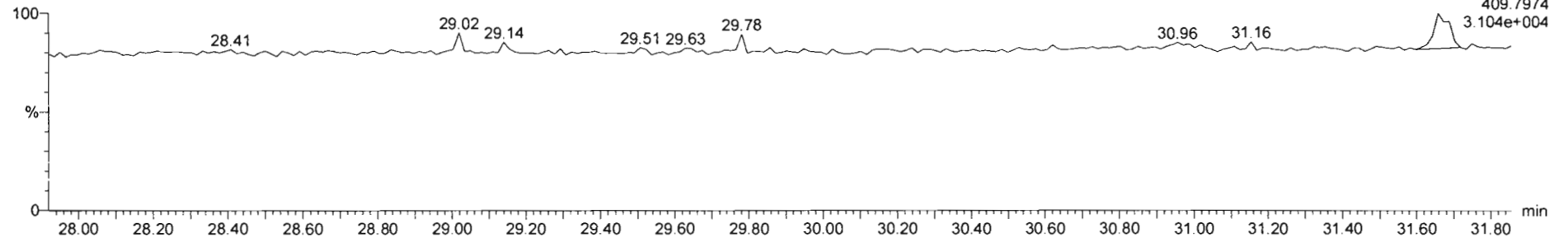


200306R2_8



DPE2

200306R2_8



Dataset: Untitled

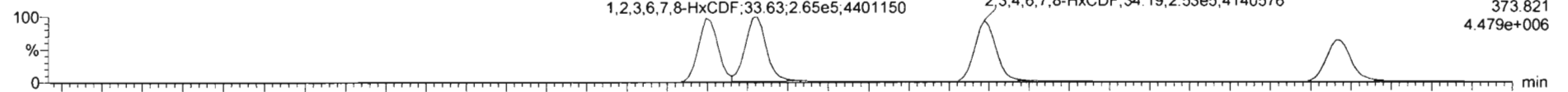
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

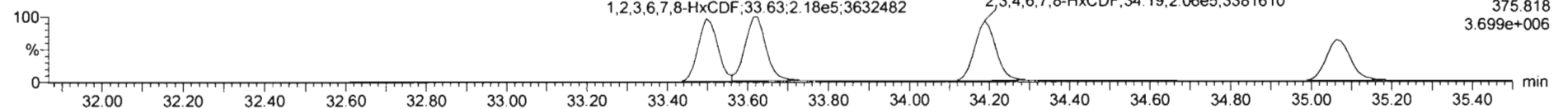
Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200306R2_8

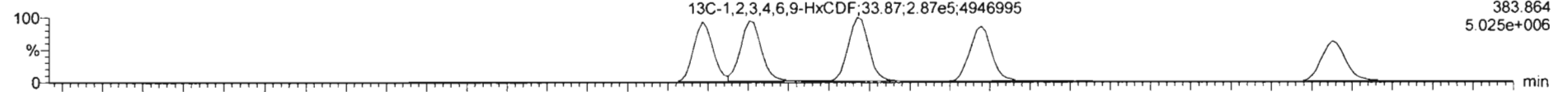


200306R2_8

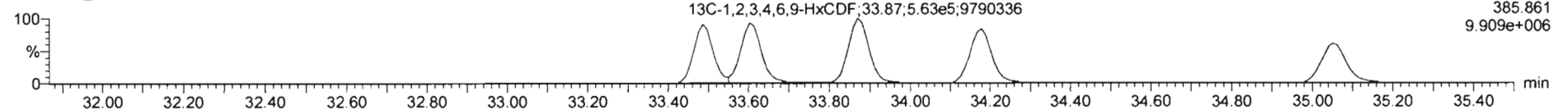


13C-1,2,3,4,7,8-HxCDF

200306R2_8

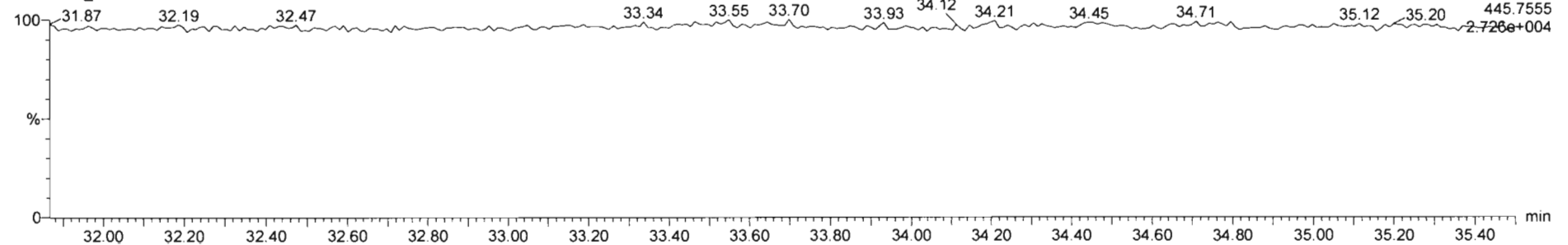


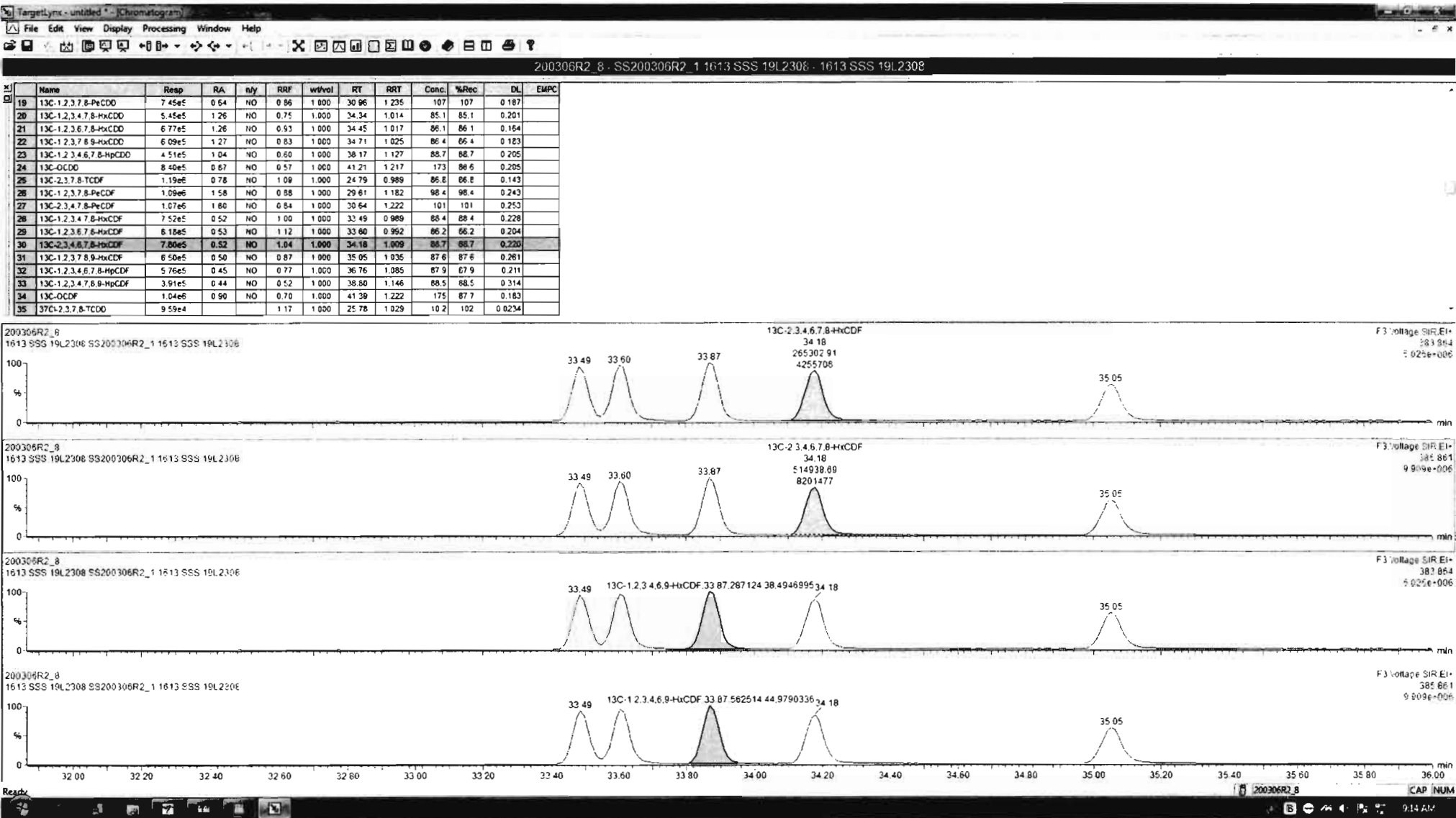
200306R2_8

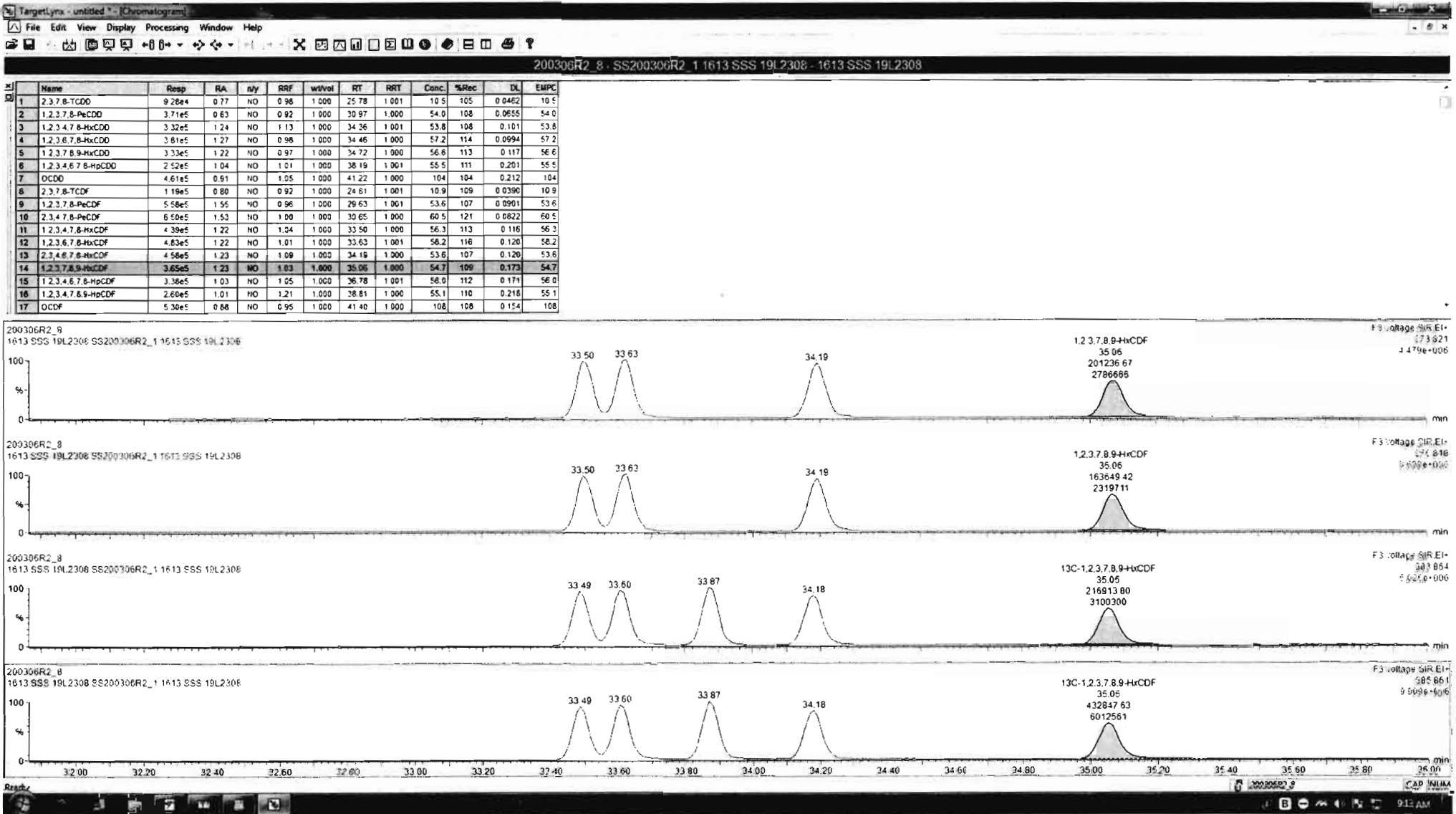


DPE3

200306R2_8







Dataset: Untitled

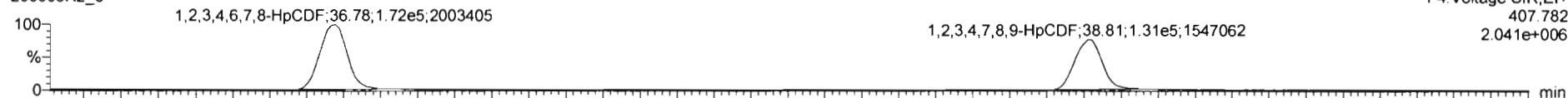
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

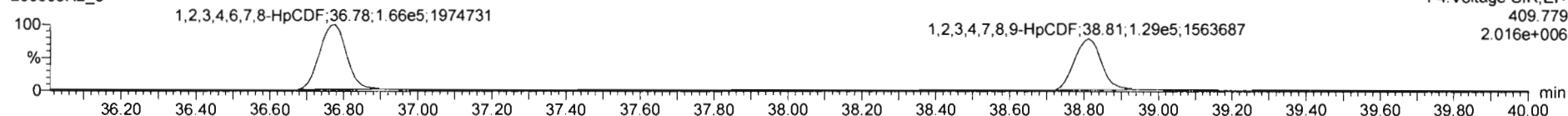
1,2,3,4,6,7,8-HpCDF

200306R2_8



F4: Voltage SIR, EI+
407.782
2.041e+006

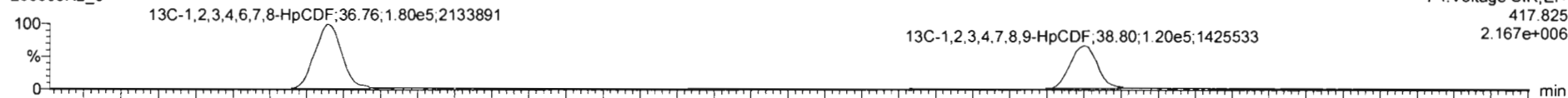
200306R2_8



F4: Voltage SIR, EI+
409.779
2.016e+006

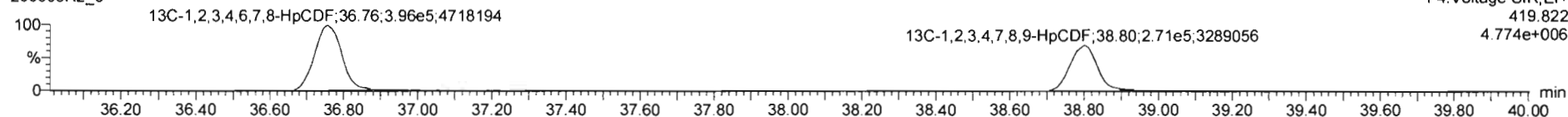
13C-1,2,3,4,6,7,8-HpCDF

200306R2_8



F4: Voltage SIR, EI+
417.825
2.167e+006

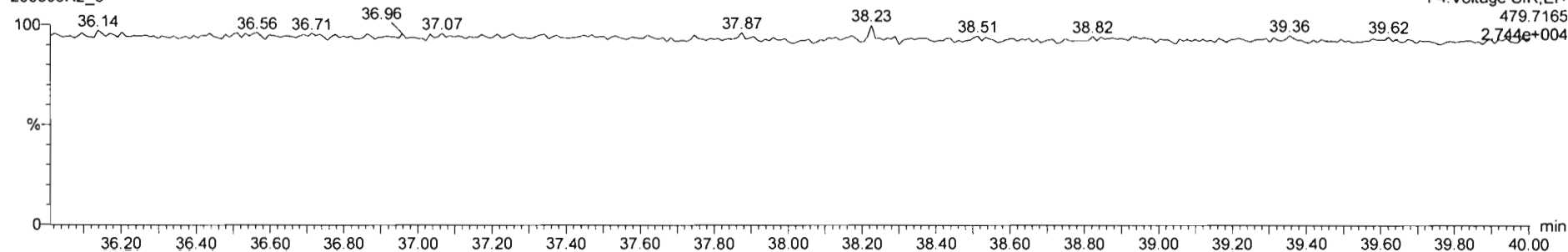
200306R2_8



F4: Voltage SIR, EI+
419.822
4.774e+006

DPE4

200306R2_8



F4: Voltage SIR, EI+
479.7165
2.744e+004

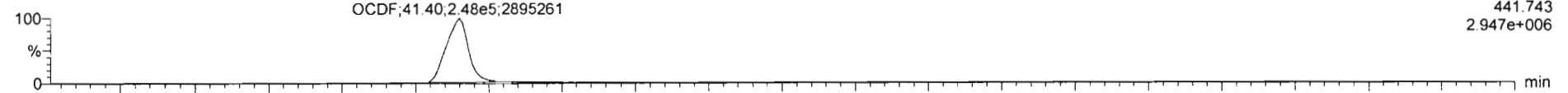
Dataset: Untitled

Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

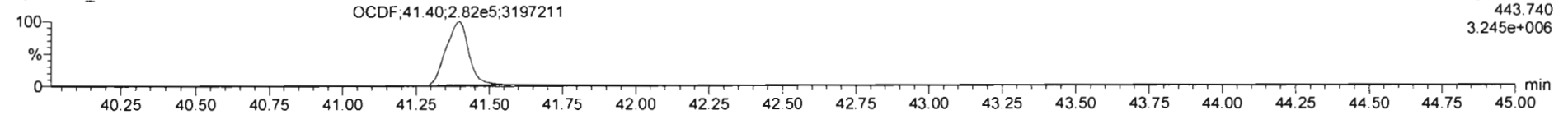
Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

OCDF

200306R2_8

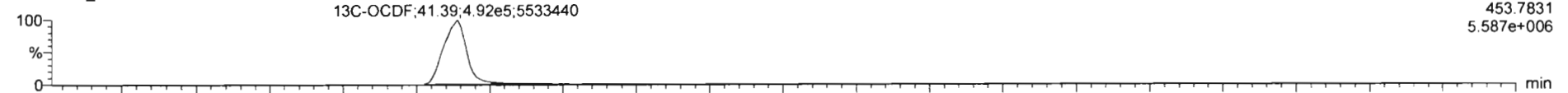


200306R2_8

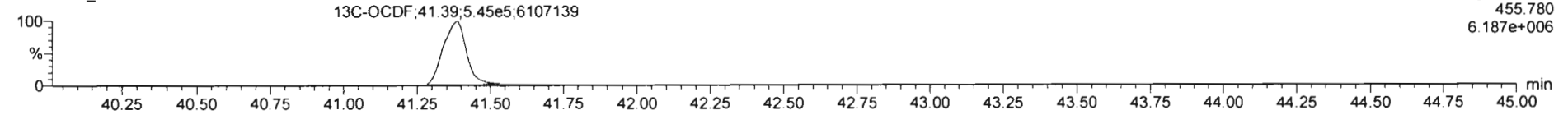


13C-OCDF

200306R2_8

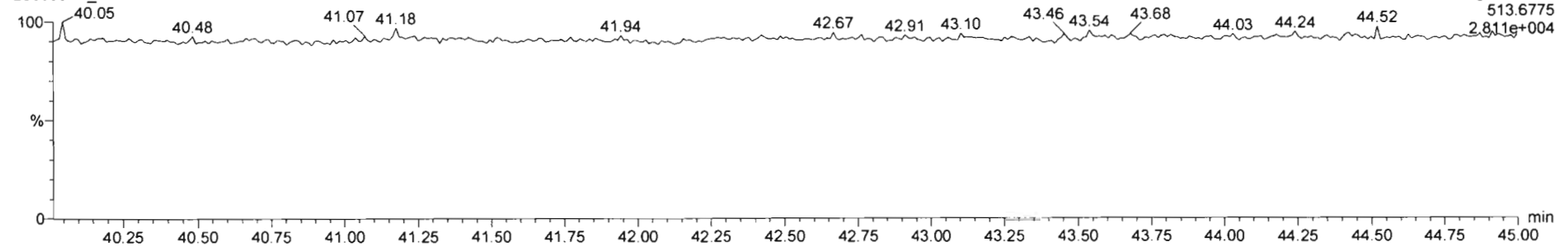


200306R2_8



DPE5

200306R2_8

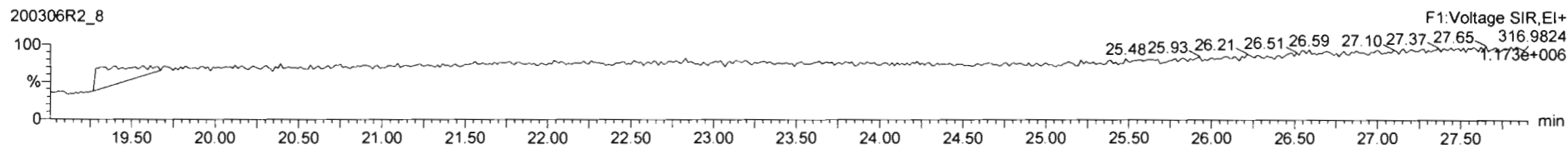


Dataset: Untitled

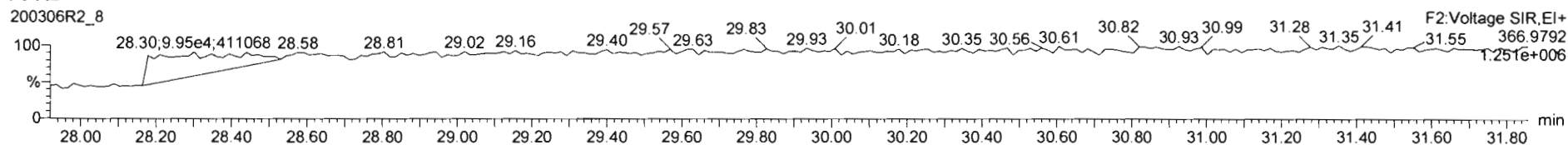
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

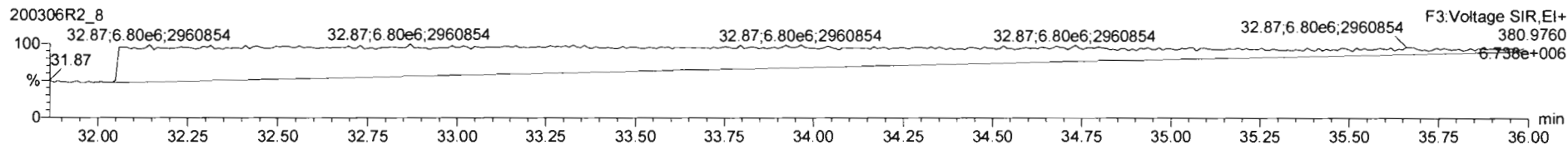
PFK1



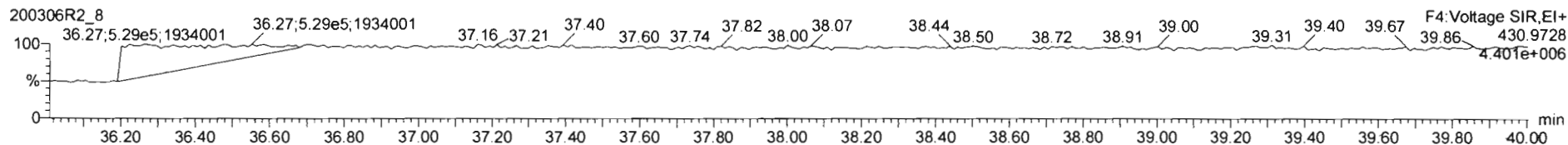
PFK2



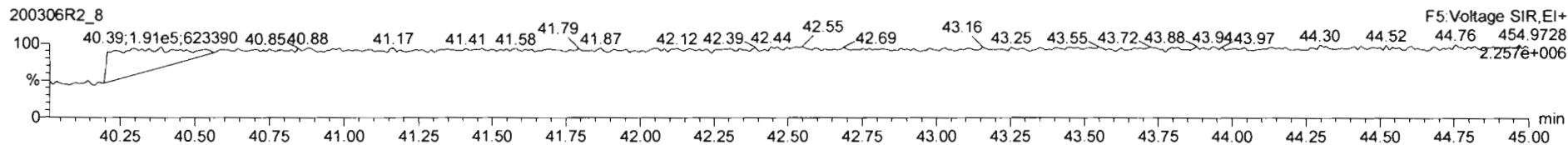
PFK3



PFK4

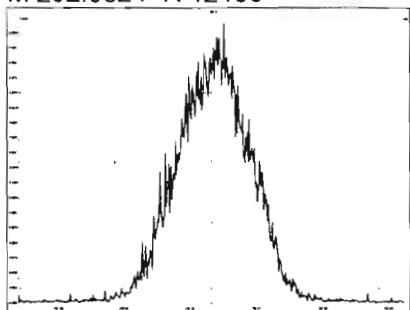


PFK5

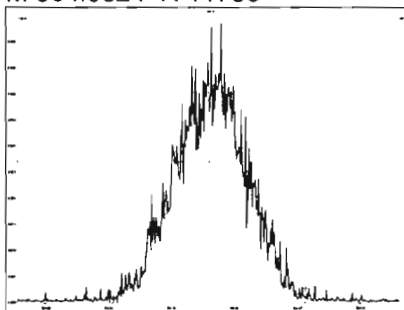


Printed: Saturday, March 07, 2020 02:06:12 Pacific Standard Time

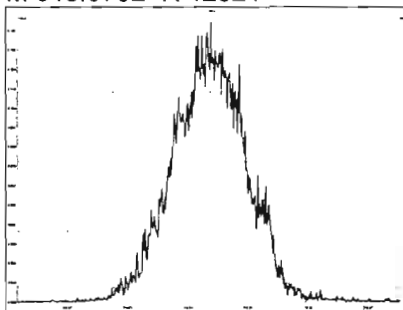
M 292.9824 R 12106



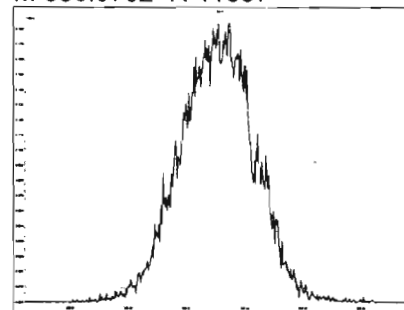
M 304.9824 R 11783



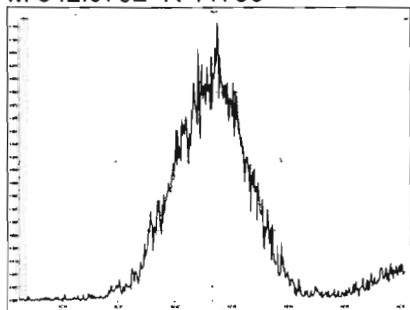
M 318.9792 R 12021



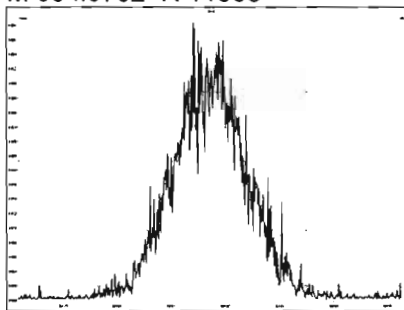
M 330.9792 R 11657



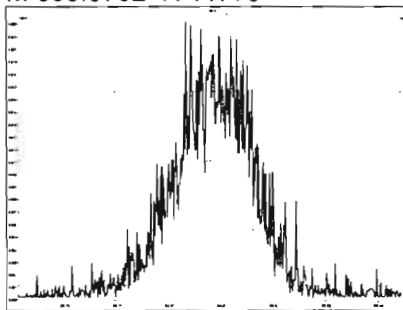
M 342.9792 R 11793



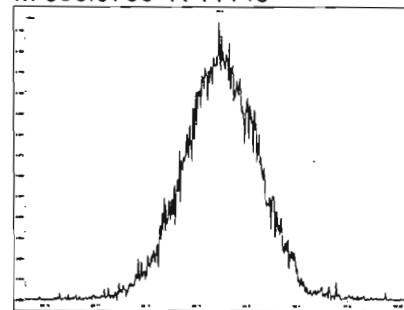
M 354.9792 R 11603



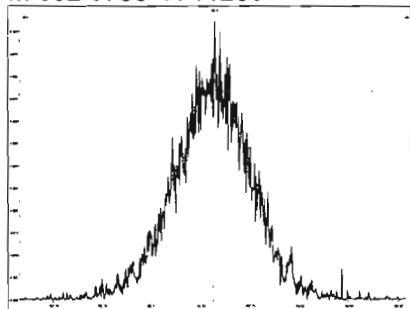
M 366.9792 R 11779



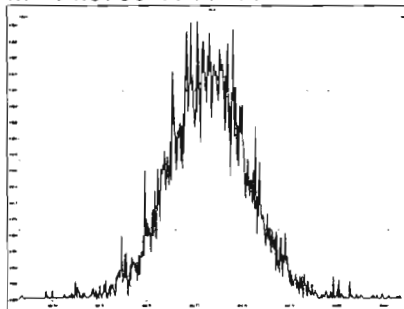
M 380.9760 R 11140



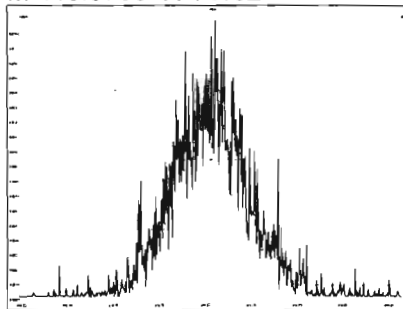
M 392.9760 R 11235



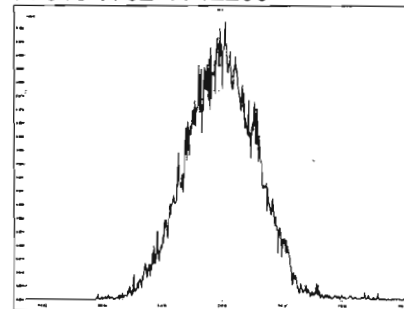
M 404.9760 R 11211



M 416.9760 R 12132

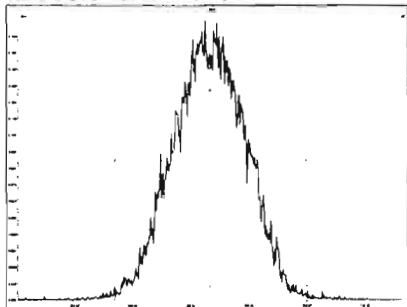


M 318.9792 R 12255

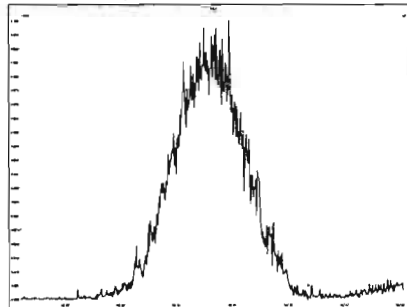


Printed: Saturday, March 07, 2020 02:06:12 Pacific Standard Time

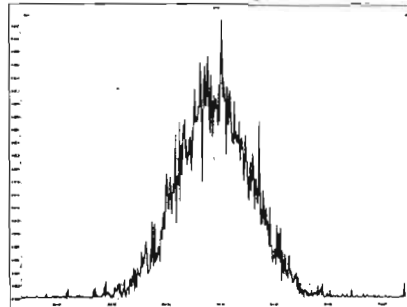
M 330.9792 R 11656



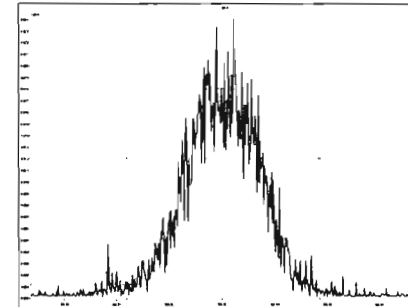
M 342.9792 R 12145



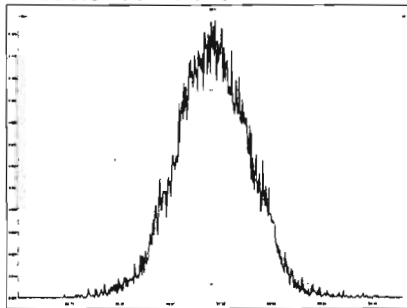
M 354.9792 R 11933



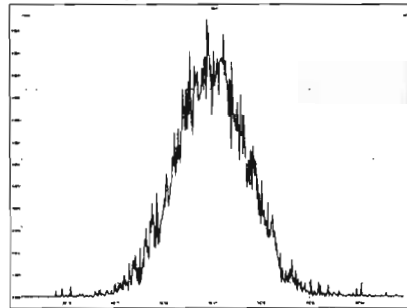
M 366.9792 R 12572



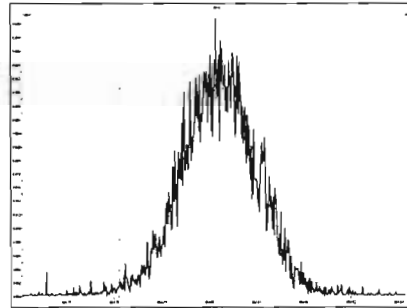
M 380.9760 R 11600



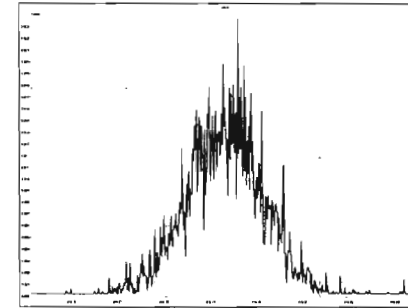
M 392.9760 R 12100



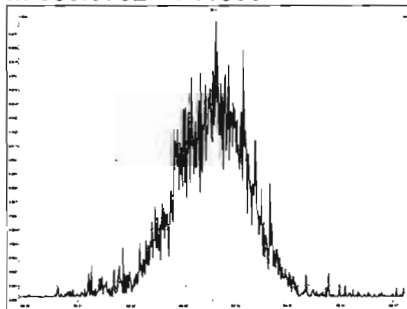
M 404.9760 R 11764



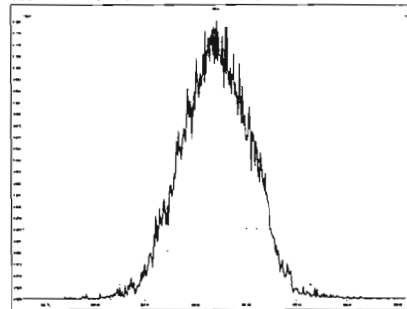
M 416.9760 R 11968



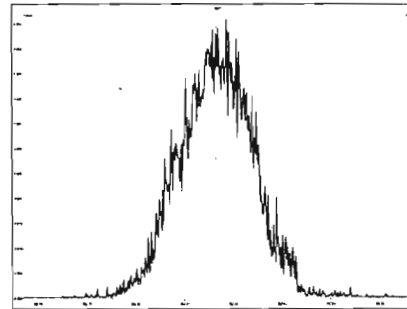
M 366.9792 R 11669



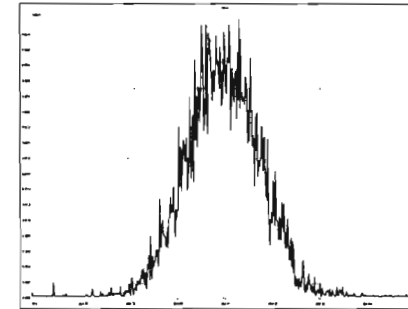
M 380.9760 R 12285



M 392.9760 R 12090

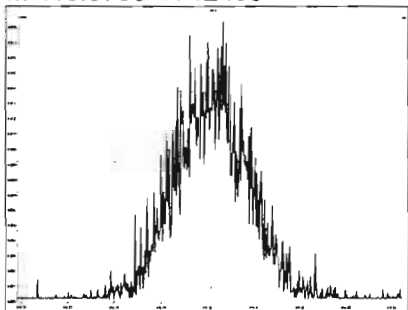


M 404.9760 R 12490

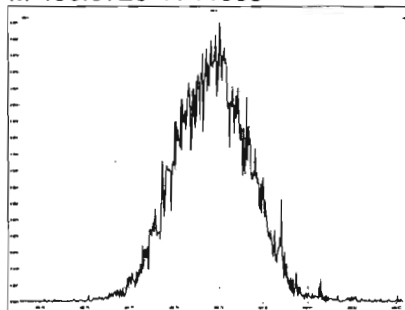


Printed: Saturday, March 07, 2020 02:06:12 Pacific Standard Time

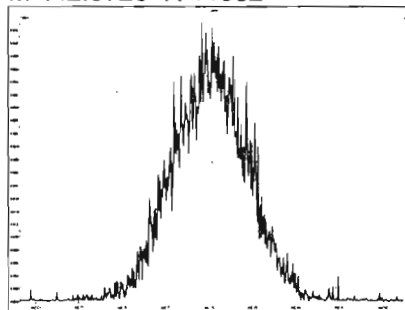
M 416.9760 R 12438



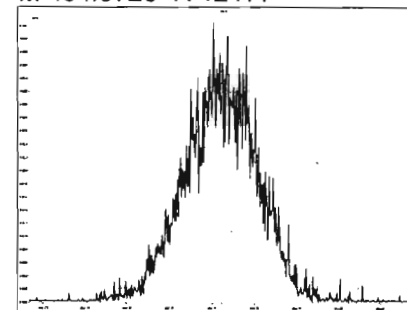
M 430.9728 R 11993



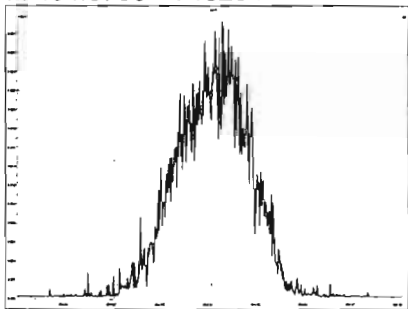
M 442.9728 R 11962



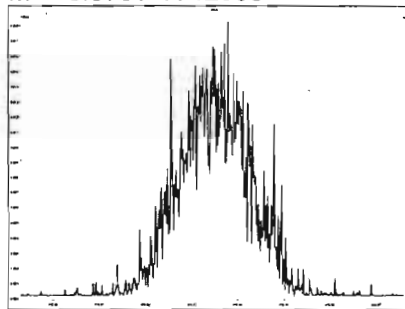
M 454.9728 R 12177



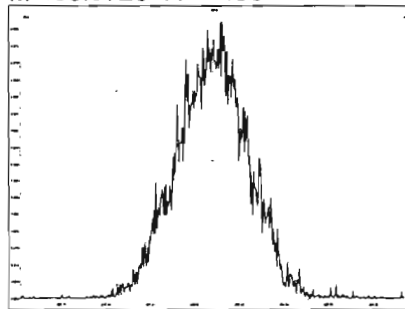
M 404.9760 R 13264



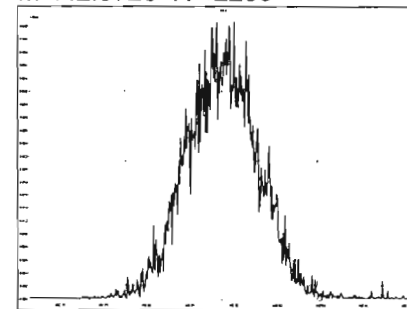
M 416.9760 R 12953



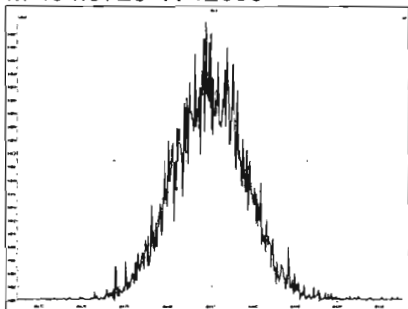
M 430.9728 R 12468



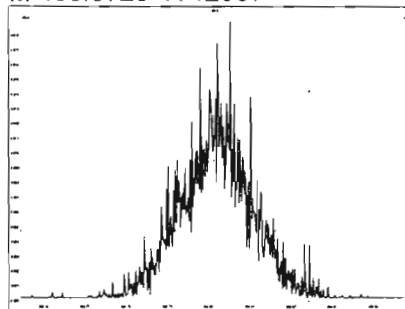
M 442.9728 R 12290



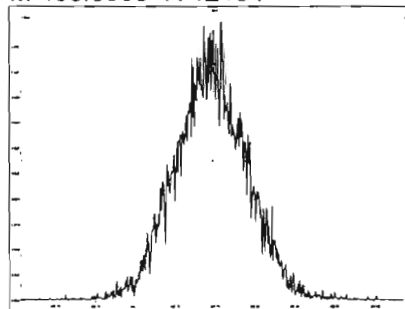
M 454.9728 R 12565



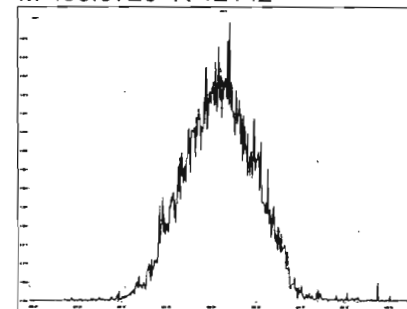
M 466.9728 R 12957



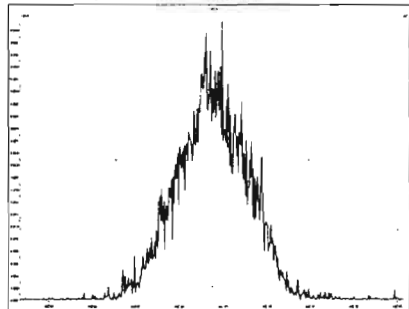
M 480.9696 R 12154



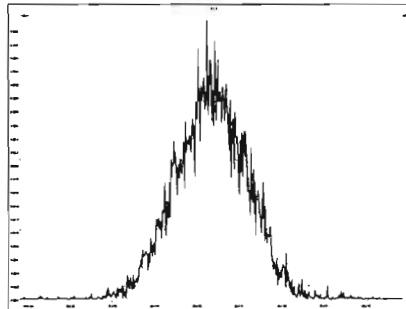
M 430.9728 R 12142



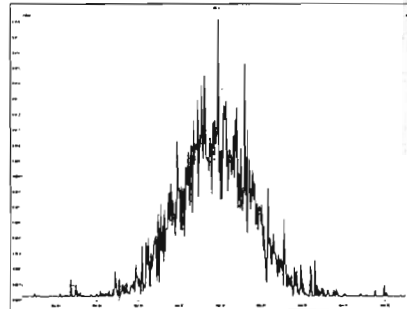
M 442.9728 R 12853



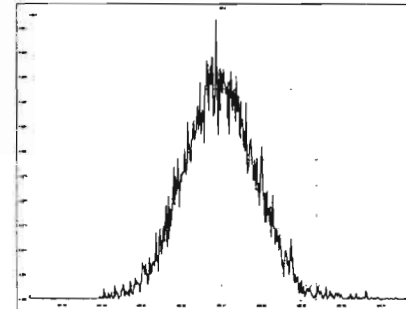
M 454.9728 R 12213



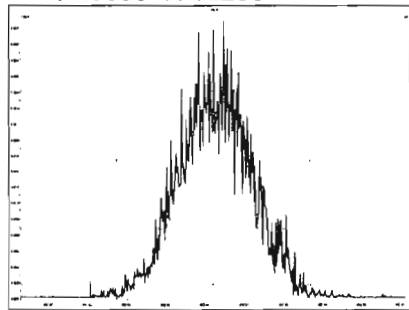
M 466.9728 R 12501



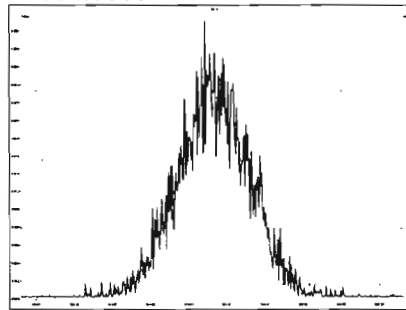
M 480.9696 R 12255



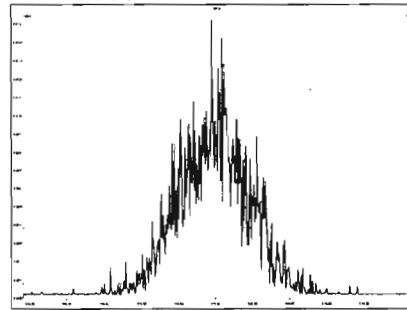
M 492.9696 R 12255



M 504.9696 R 12406



M 516.9697 R 12265



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 0102/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

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

Response Factor: 0.9819

RRF SD: 0.0791981, Relative SD: 8.06581

Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

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

Response Factor: 1.08271

RRF SD: 0.0939058, Relative SD: 8.67318

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

Vista Analytical Laboratory VG-9

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Dataset: Untitled

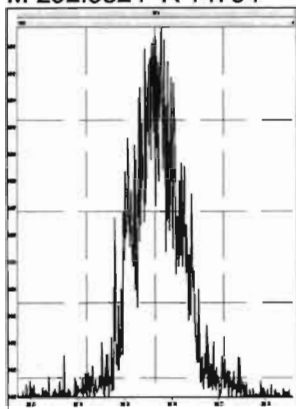
Last Altered: Wednesday, February 12, 2020 10:45:15 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Callbration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

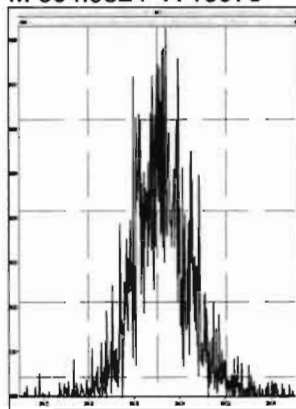
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200211D2_1	SOLVENT BLANK	11-Feb-20	19:58:43
2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
16	200211D2_16	1903740-05RE1 PDI-097SC-B-00-02-191017 ...	12-Feb-20	03:52:45

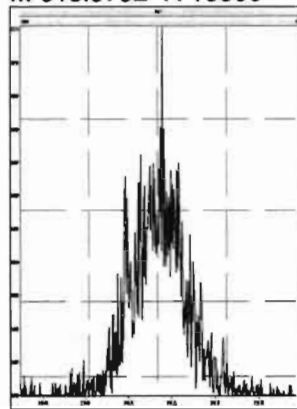
M 292.9824 R 14754



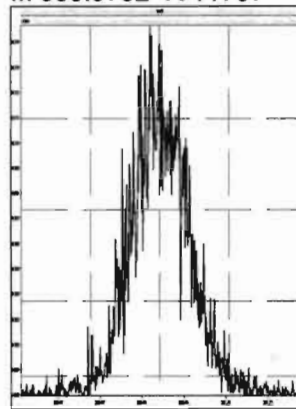
M 304.9824 R 15978



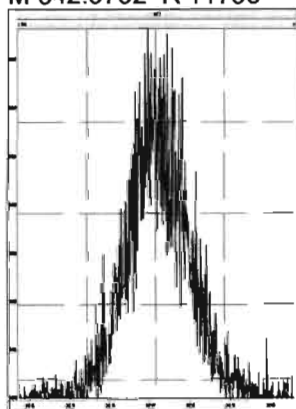
M 318.9792 R 15503



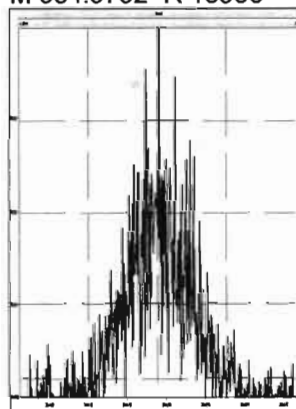
M 330.9792 R 11737



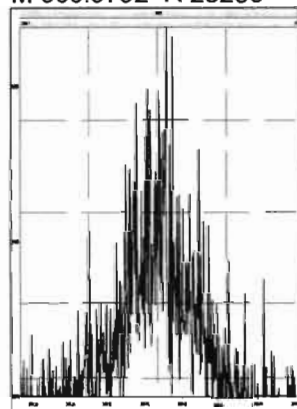
M 342.9792 R 11796



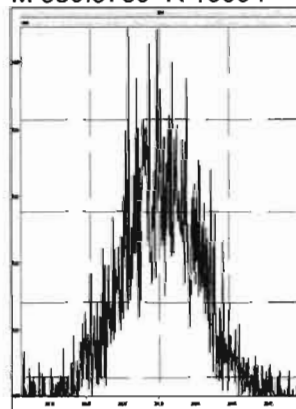
M 354.9792 R 15966

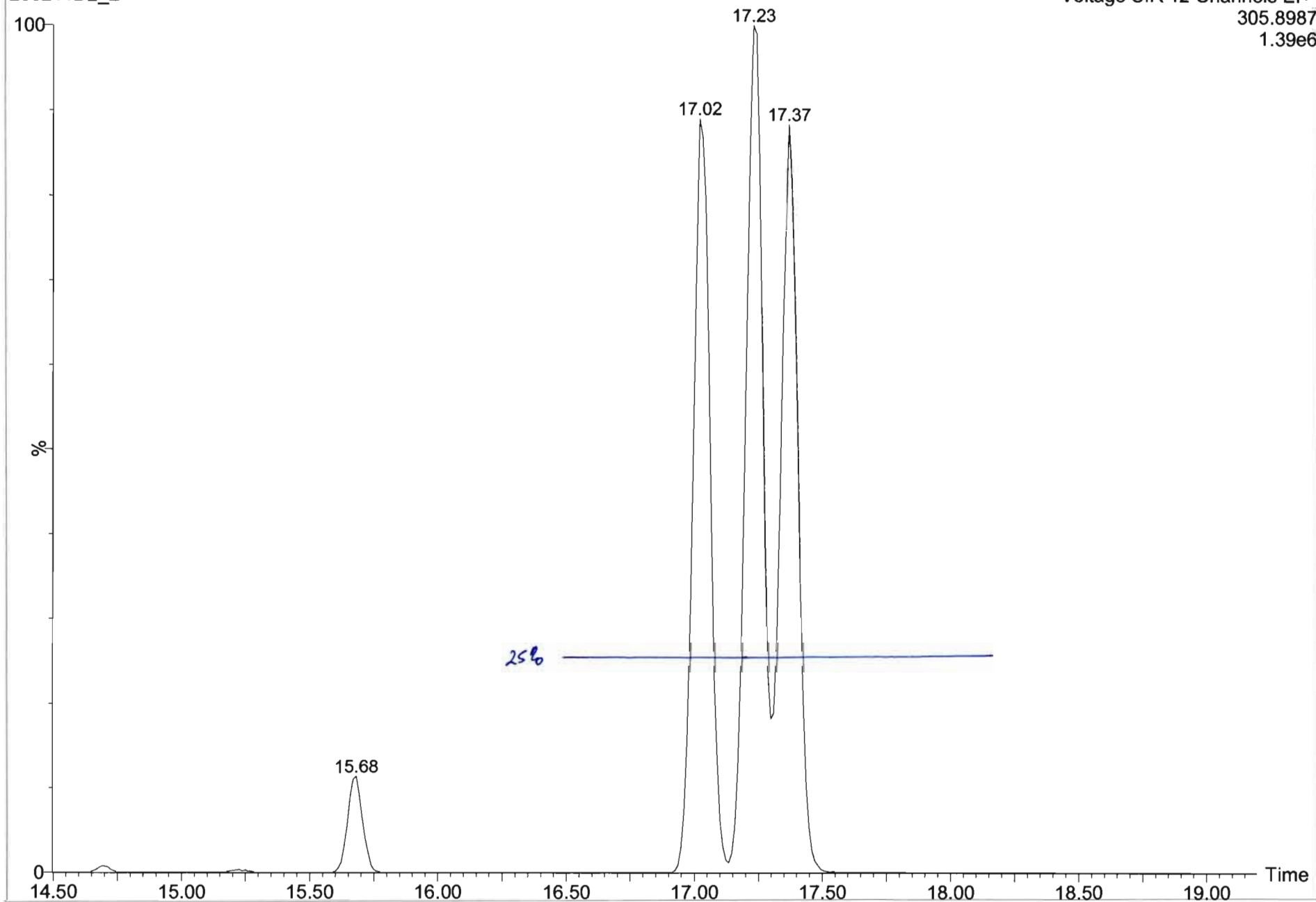


M 366.9792 R 28256



M 380.9760 R 13094





Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

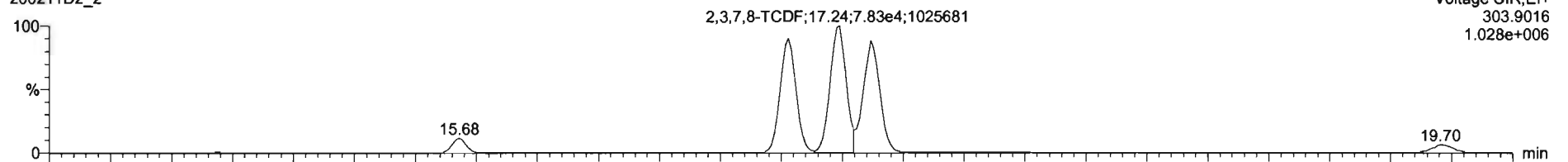
Last Altered: Wednesday, February 12, 2020 10:13:49 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

Name: 200211D2_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

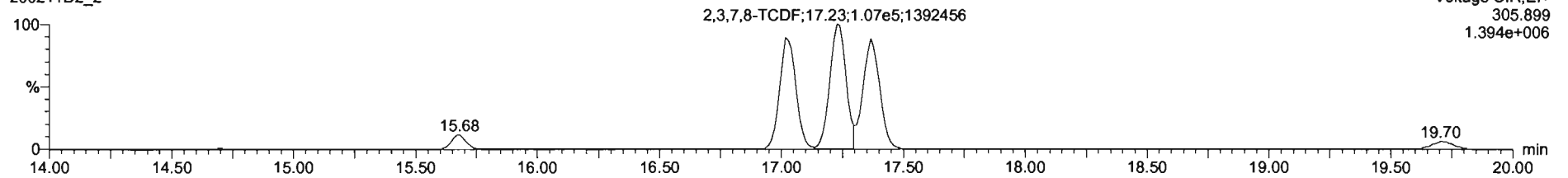
2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
303.9016
1.028e+006

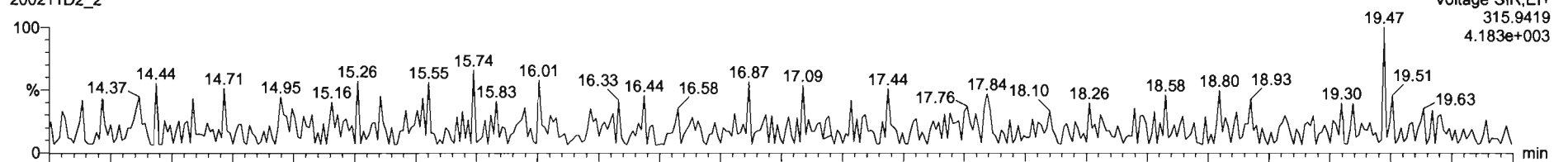
200211D2_2



Voltage SIR,EI+
305.899
1.394e+006

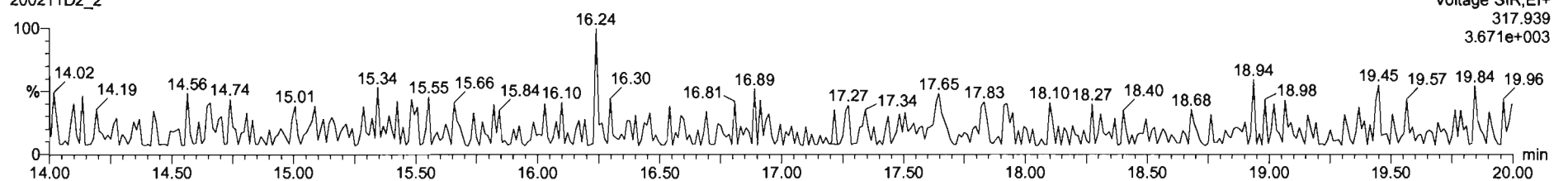
13C-2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
315.9419
4.183e+003

200211D2_2



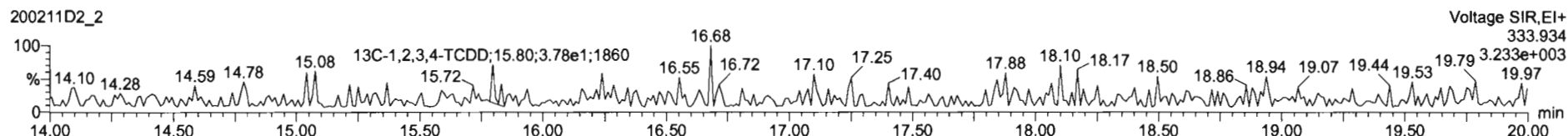
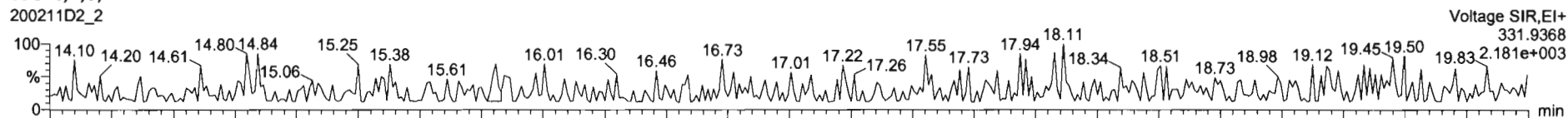
Voltage SIR,EI+
317.939
3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

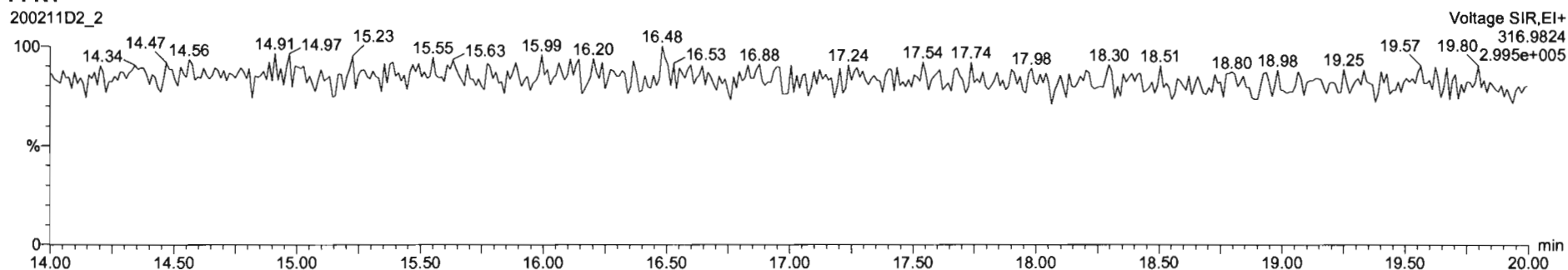
Last Altered: Wednesday, February 12, 2020 10:13:49 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

Name: 200211D2_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

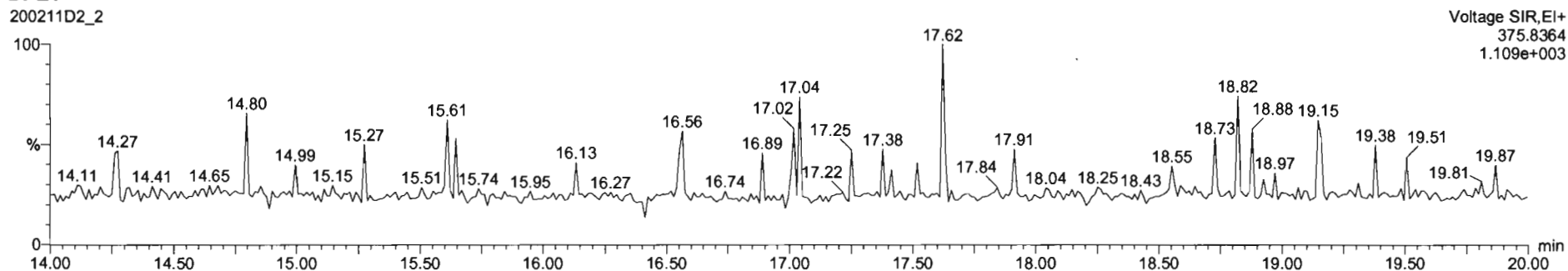
13C-1,2,3,4-TCDD



PFK1



DPE1



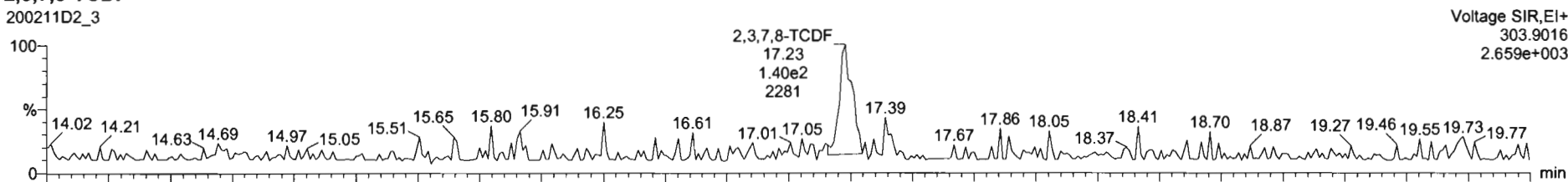
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

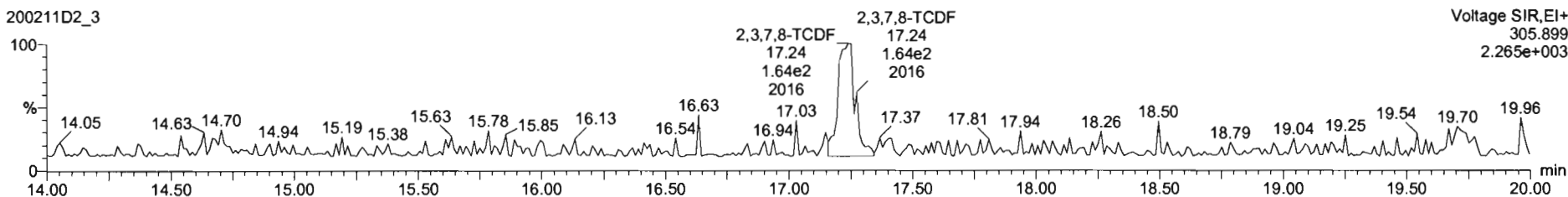
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

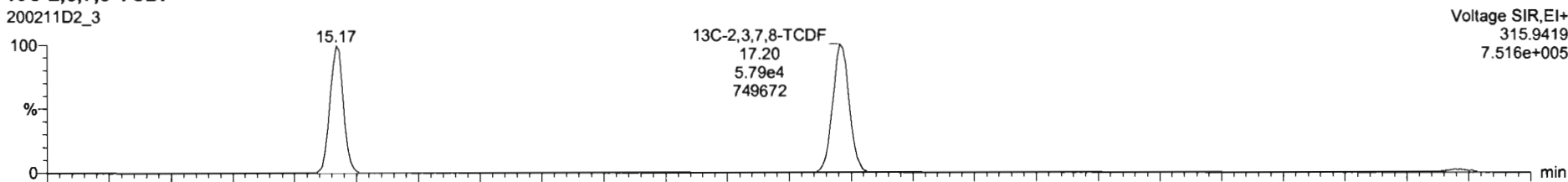
2,3,7,8-TCDF
200211D2_3



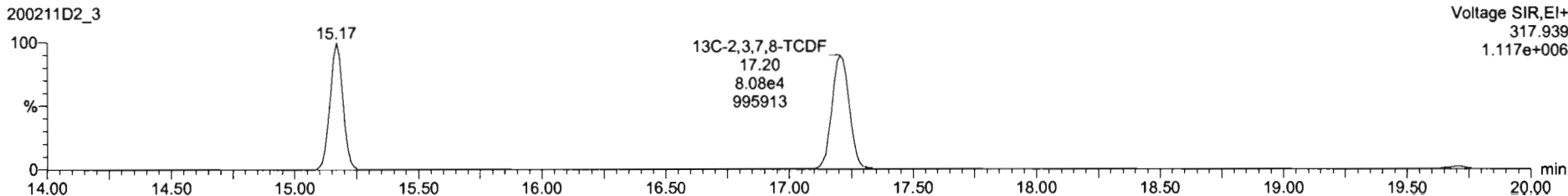
200211D2_3



13C-2,3,7,8-TCDF
200211D2_3



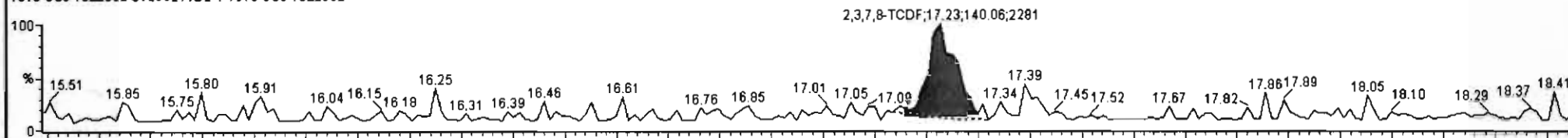
200211D2_3



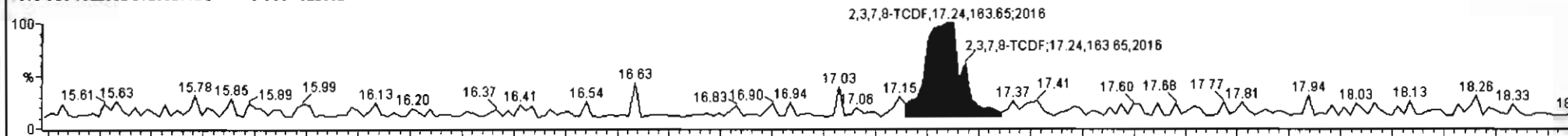
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

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

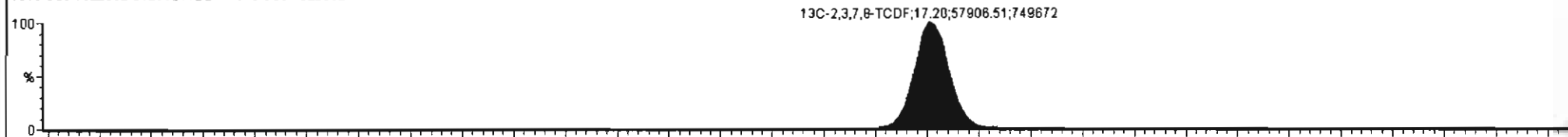
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



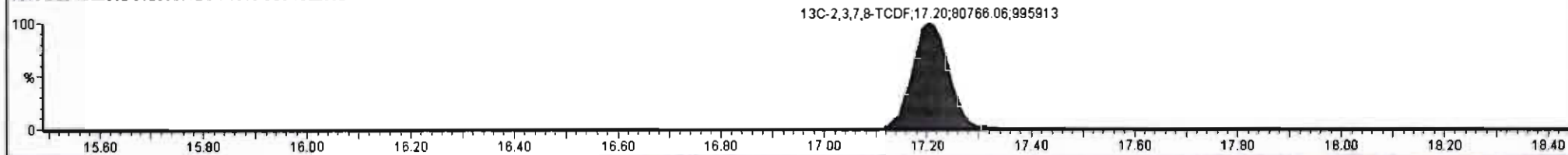
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



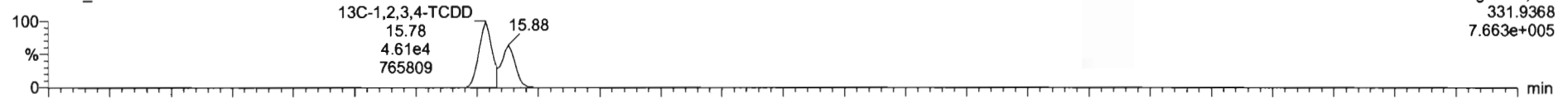
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

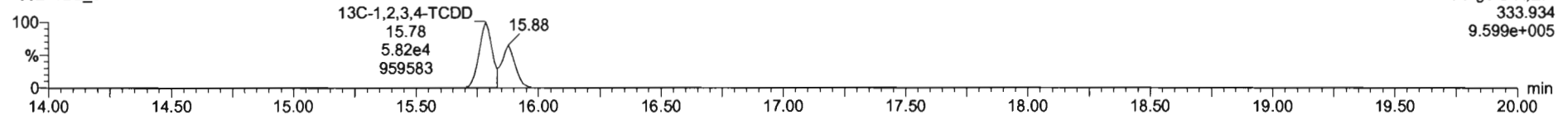
Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200211D2_3

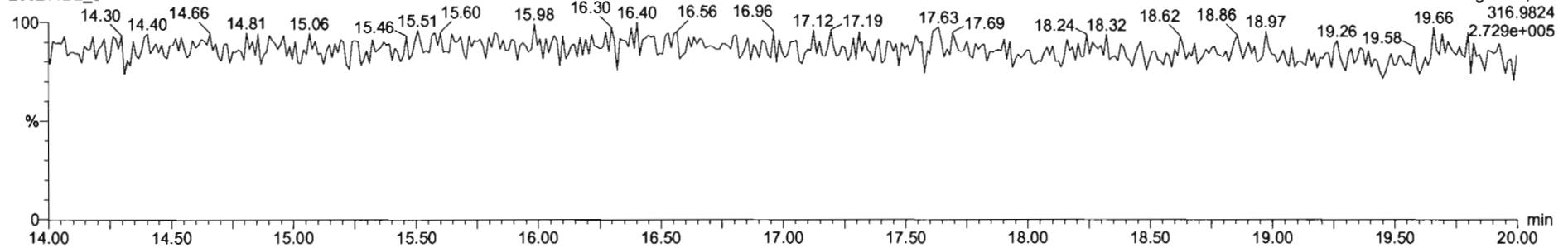


200211D2_3



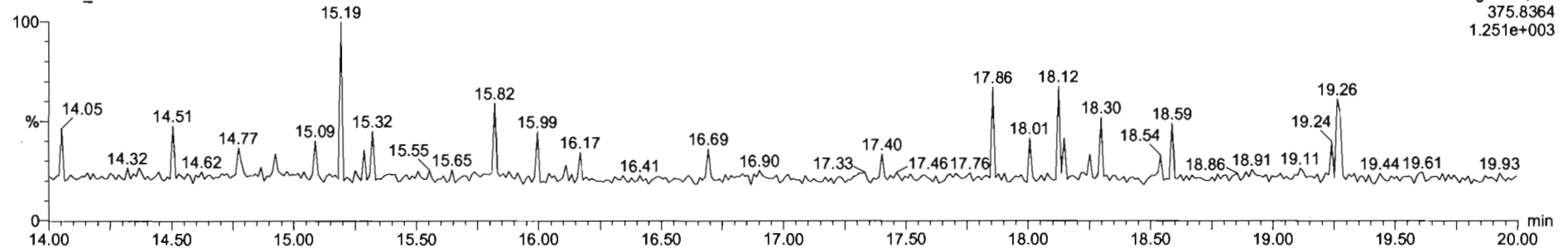
PFK1

200211D2_3



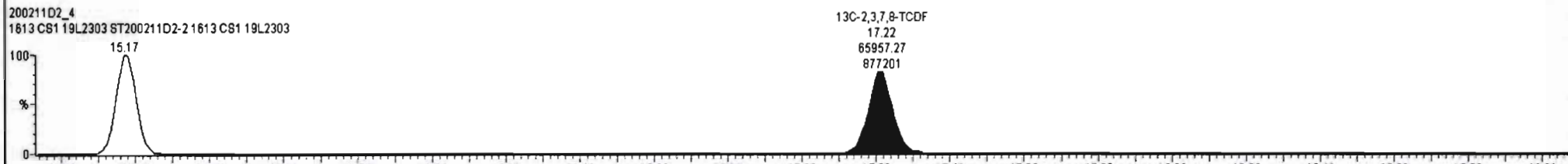
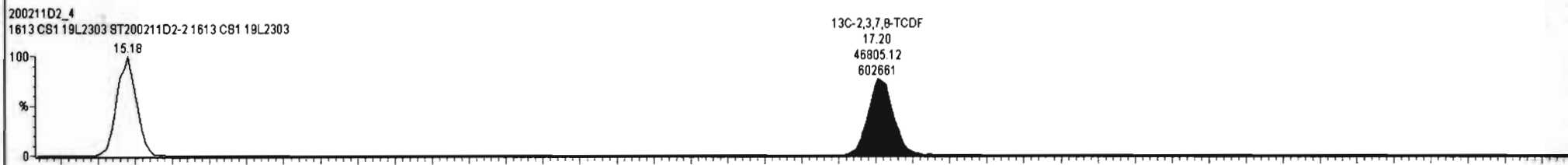
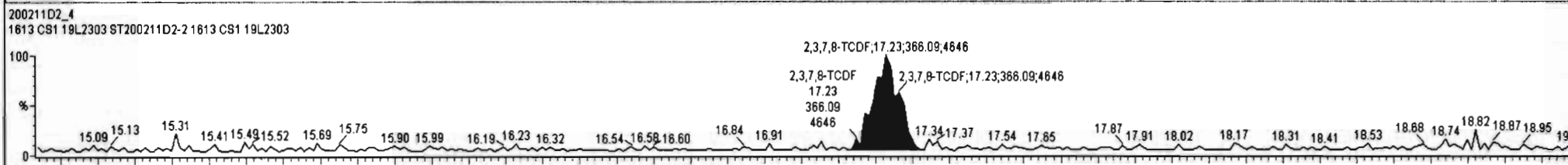
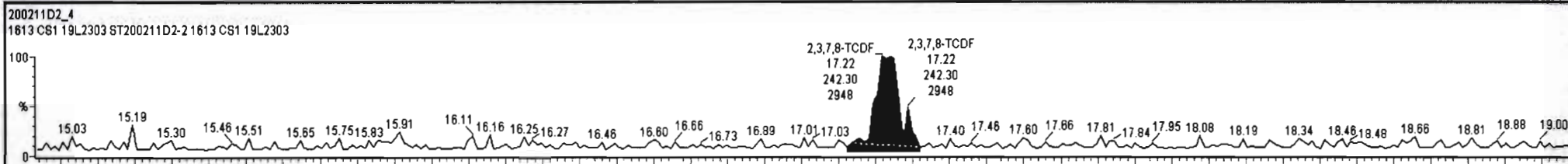
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.09e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.549
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



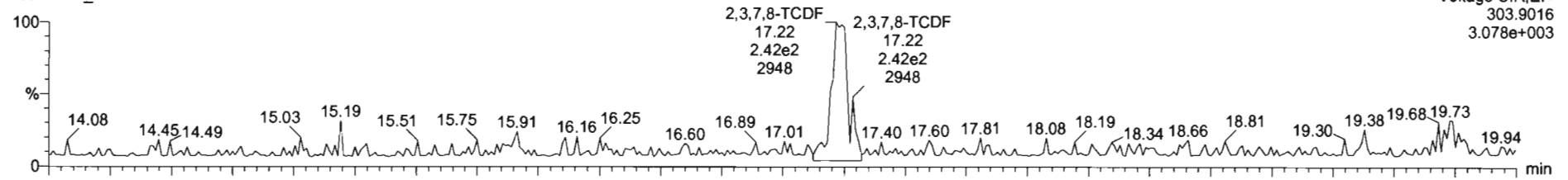
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

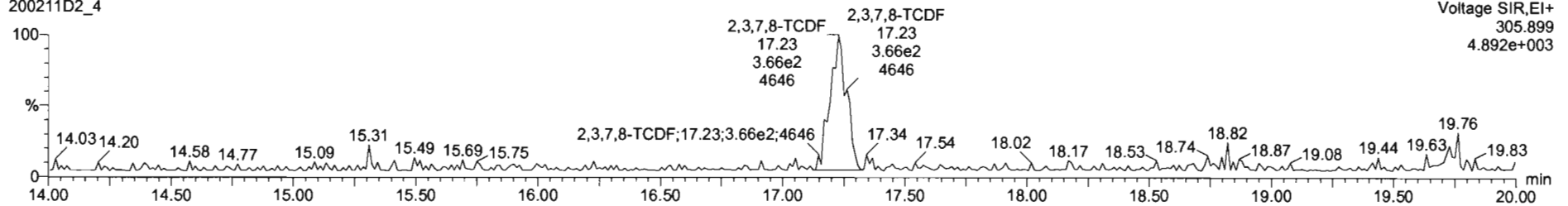
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200211D2_4

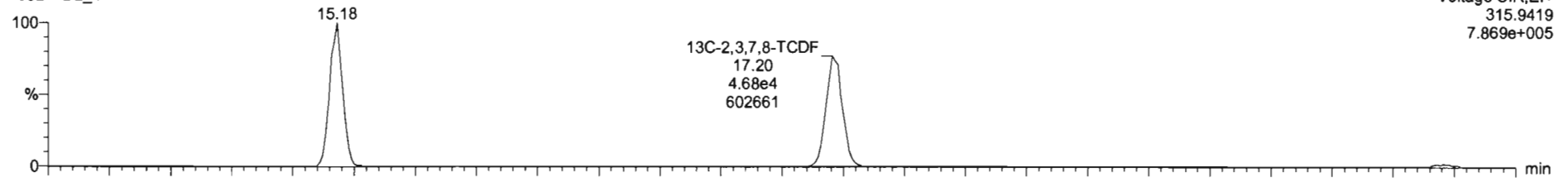


200211D2_4

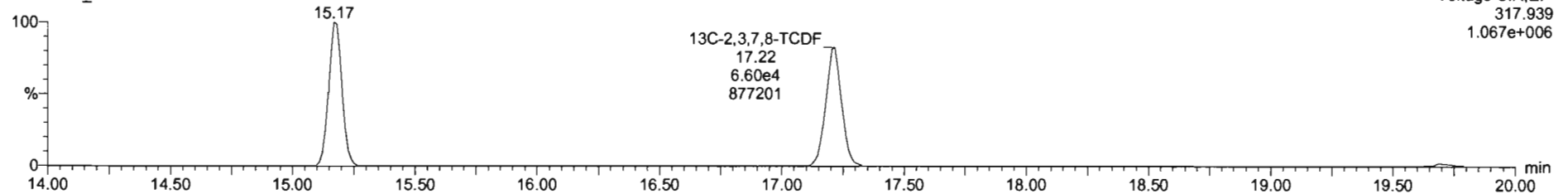


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



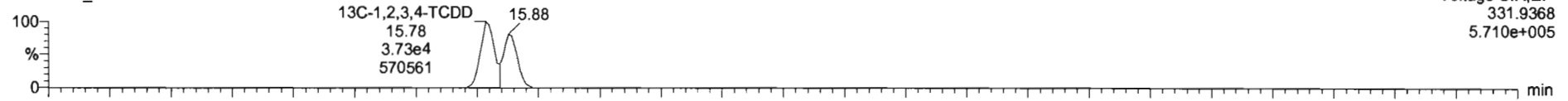
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

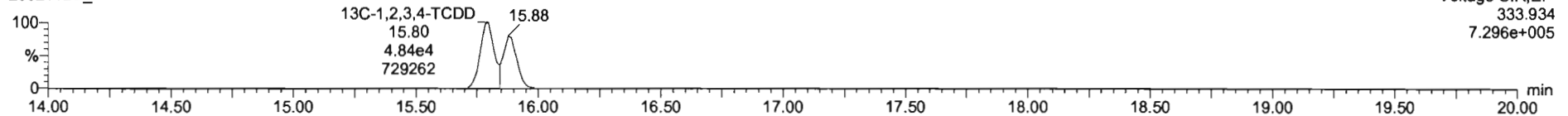
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2_4

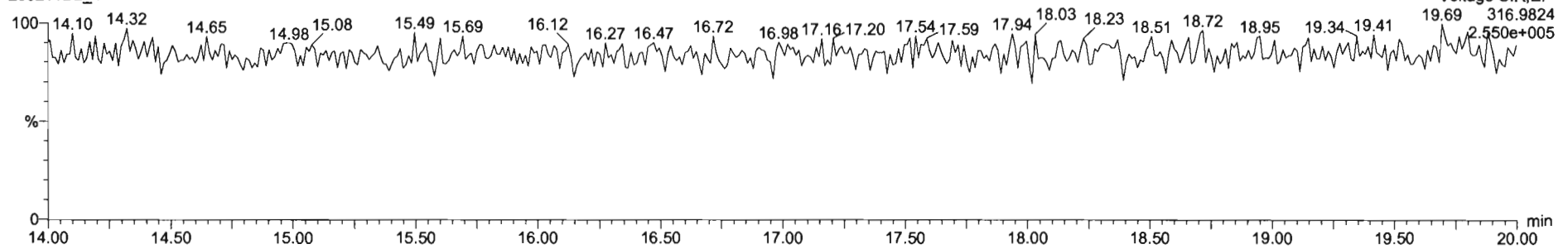


200211D2_4



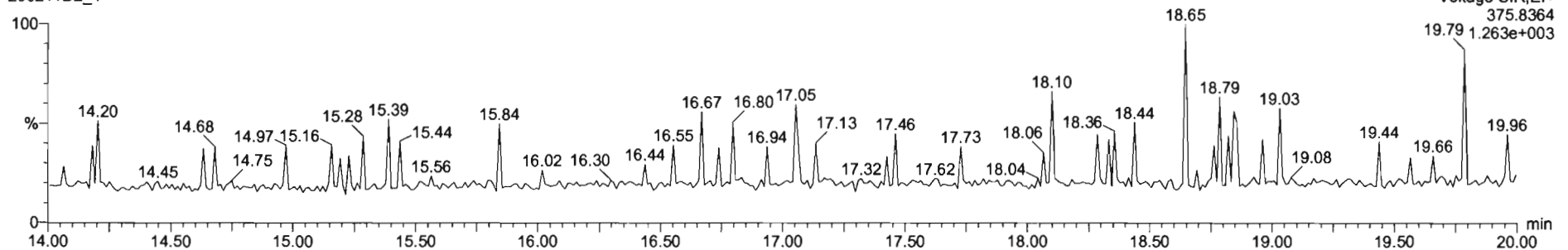
PFK1

200211D2_4



DPE1

200211D2_4



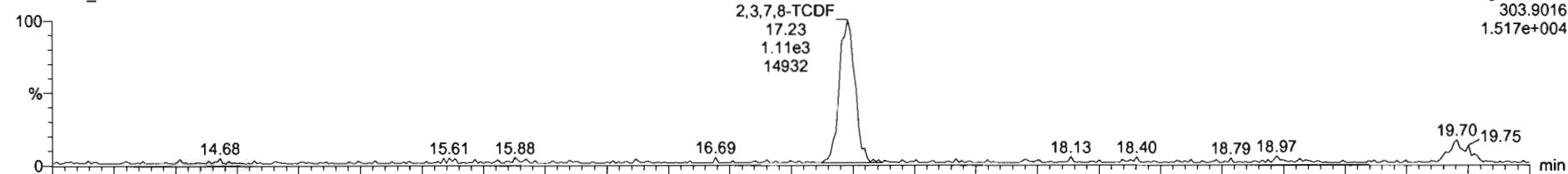
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

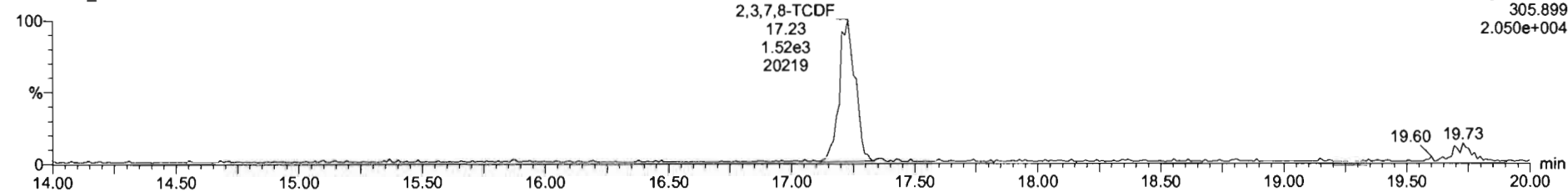
Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

2,3,7,8-TCDF

200211D2_5

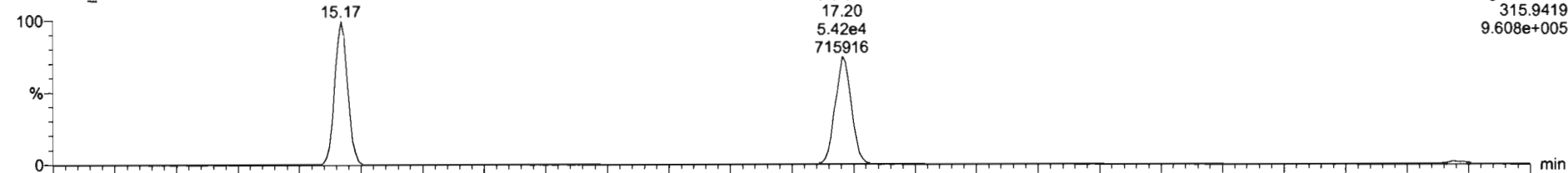


200211D2_5

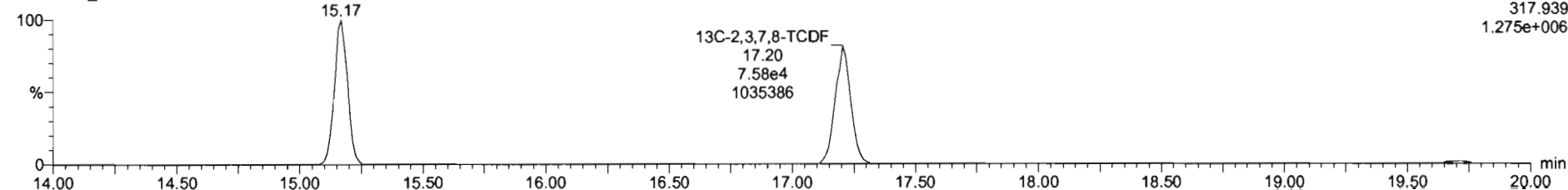


13C-2,3,7,8-TCDF

200211D2_5



200211D2_5

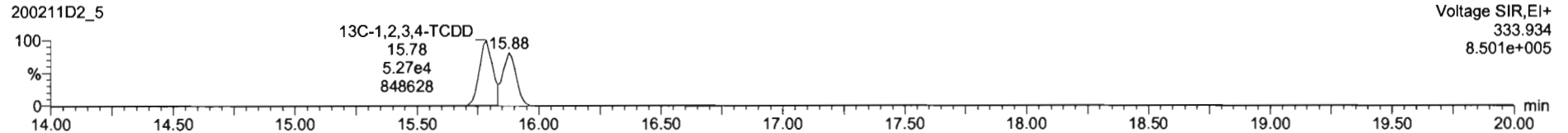
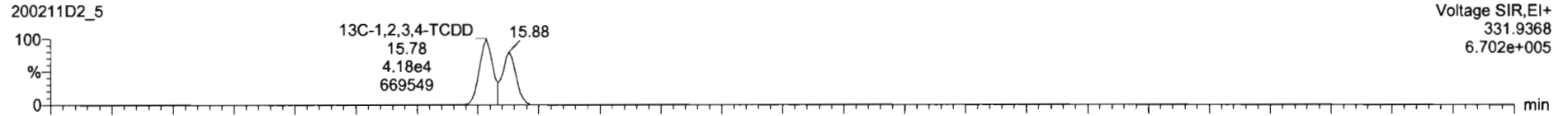


Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

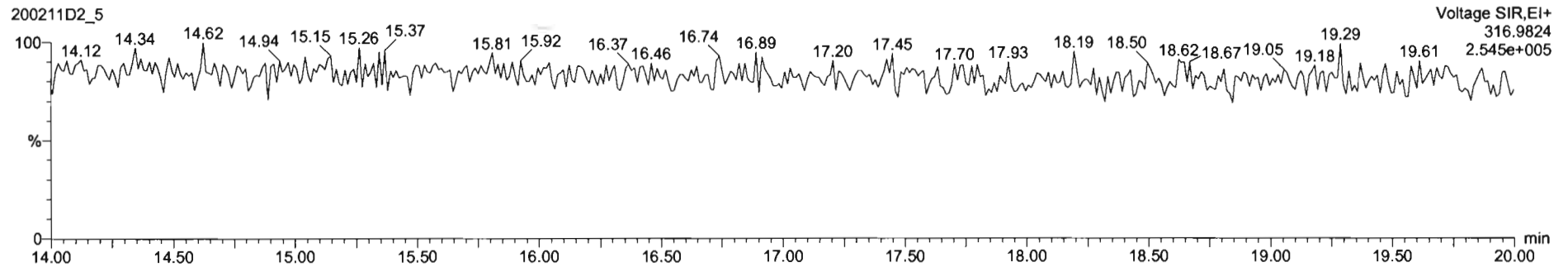
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

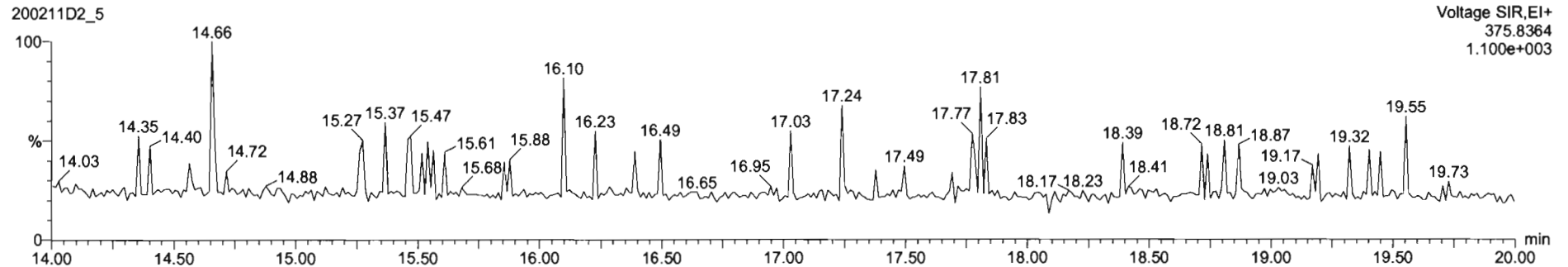
13C-1,2,3,4-TCDD



PFK1



DPE1



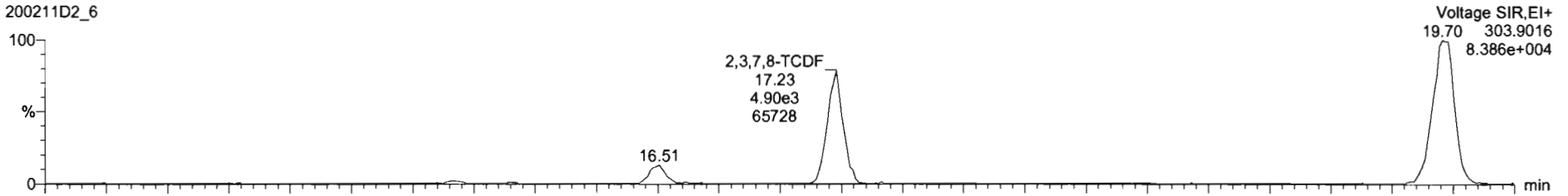
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

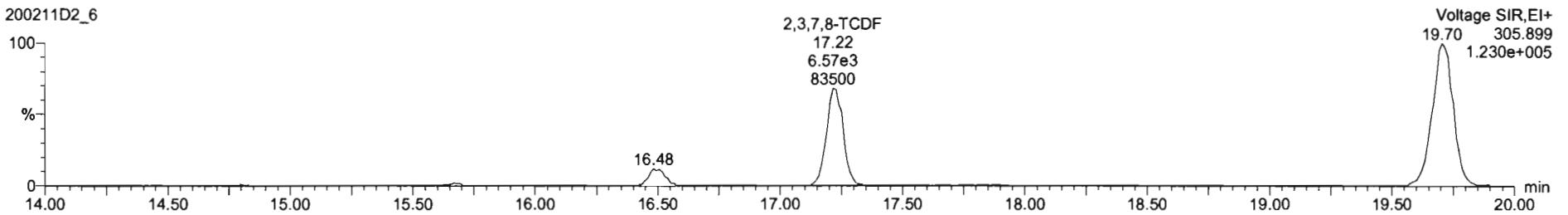
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200211D2_6

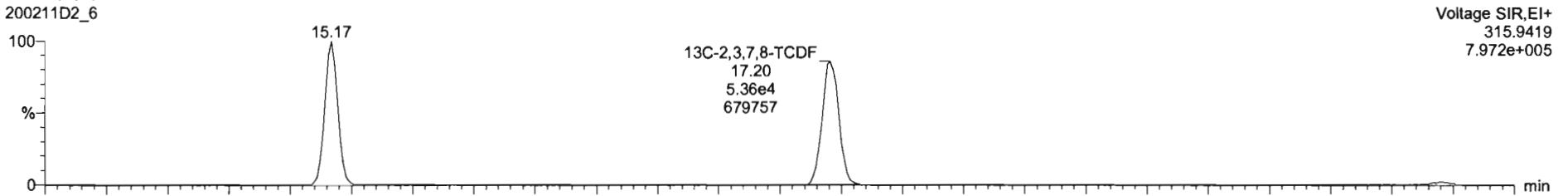


200211D2_6

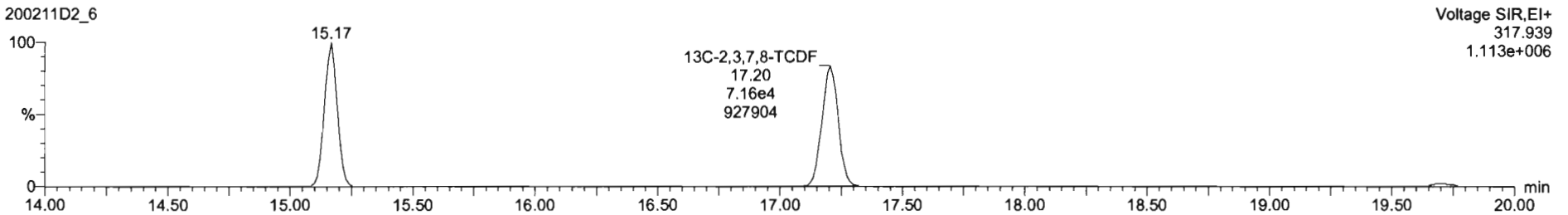


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



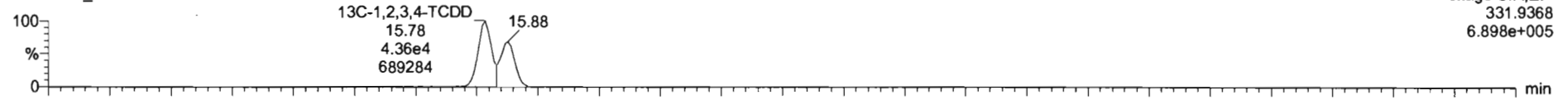
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

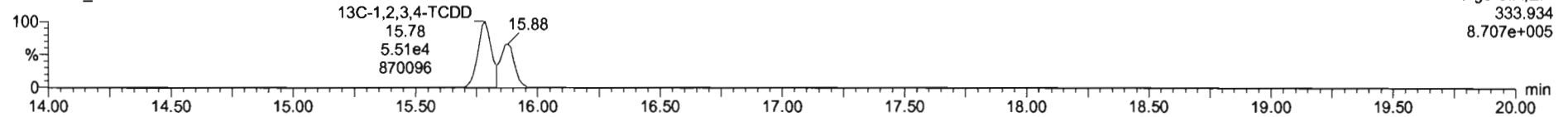
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2_6

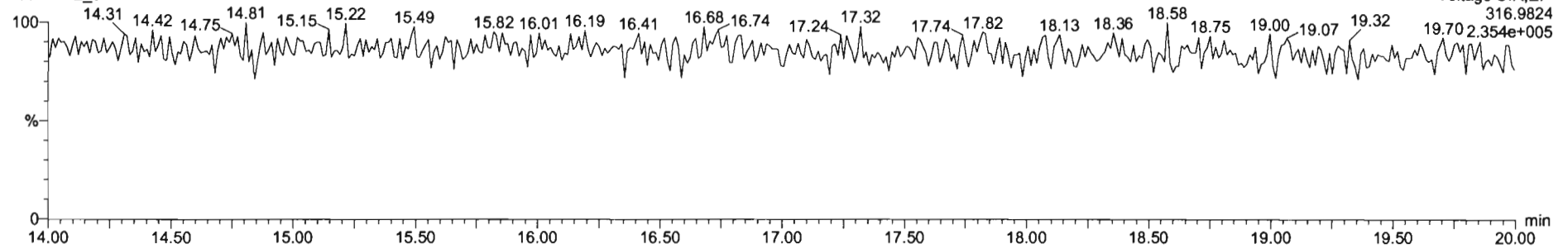


200211D2_6



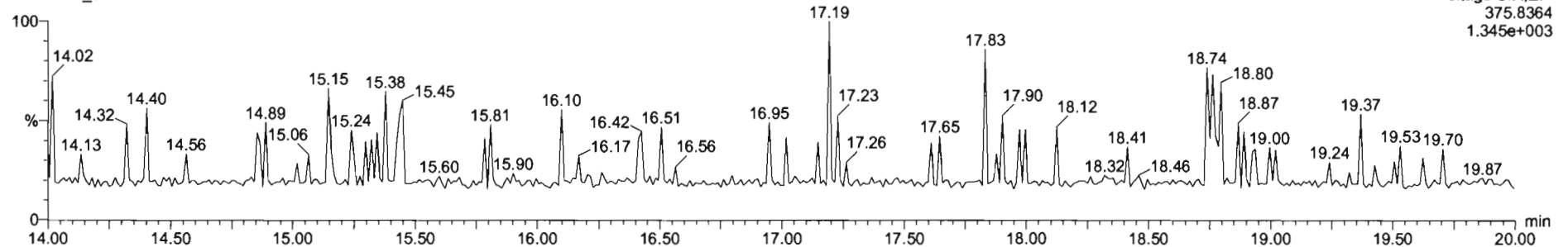
PFK1

200211D2_6



DPE1

200211D2_6



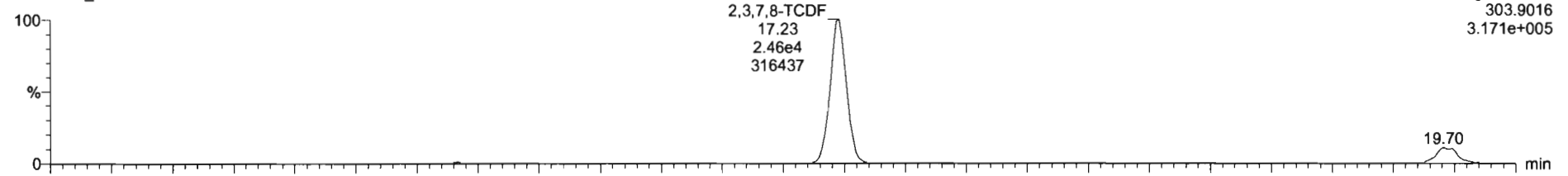
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

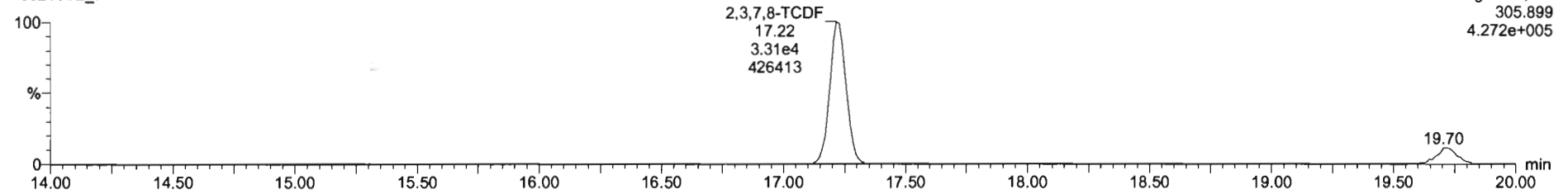
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200211D2_7

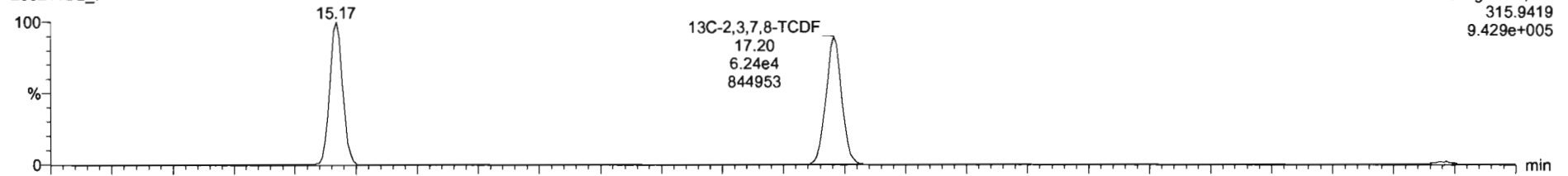


200211D2_7

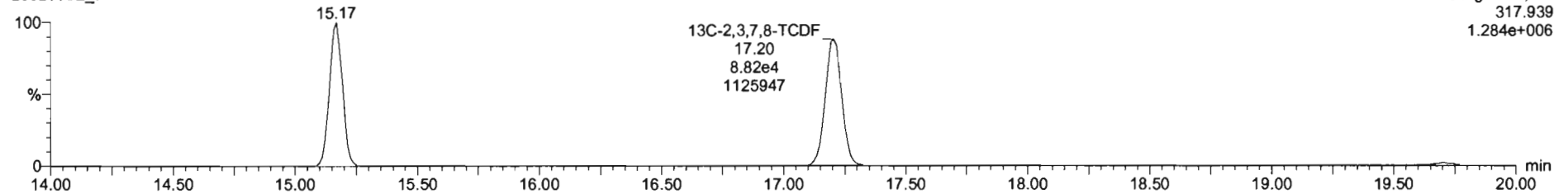


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



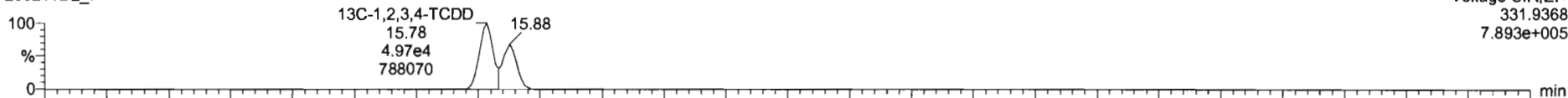
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

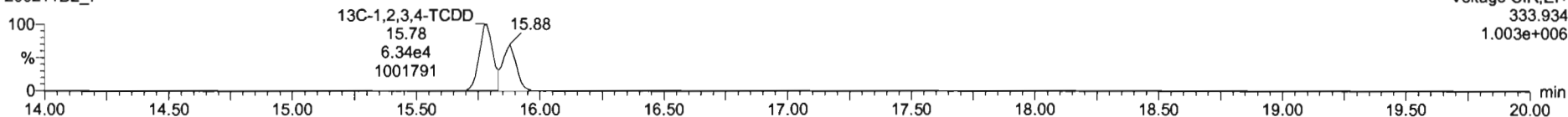
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2_7

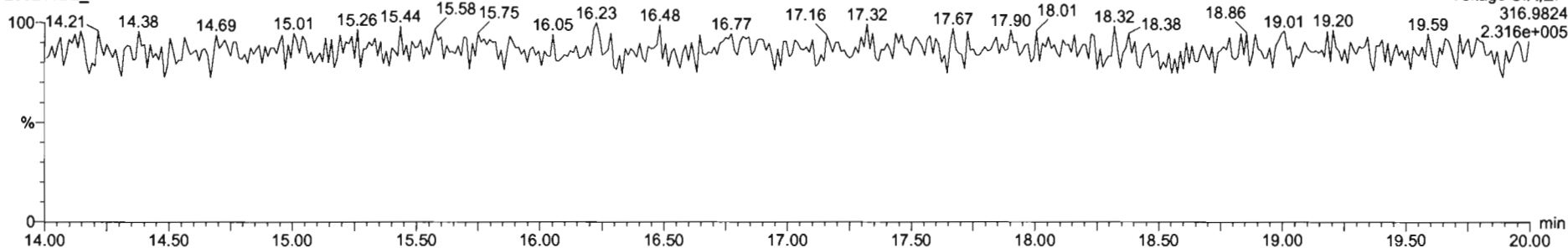


200211D2_7



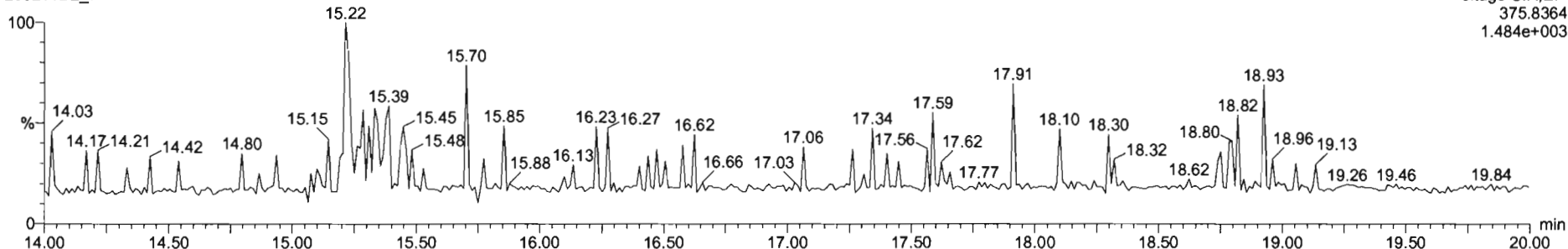
PFK1

200211D2_7



DPE1

200211D2_7



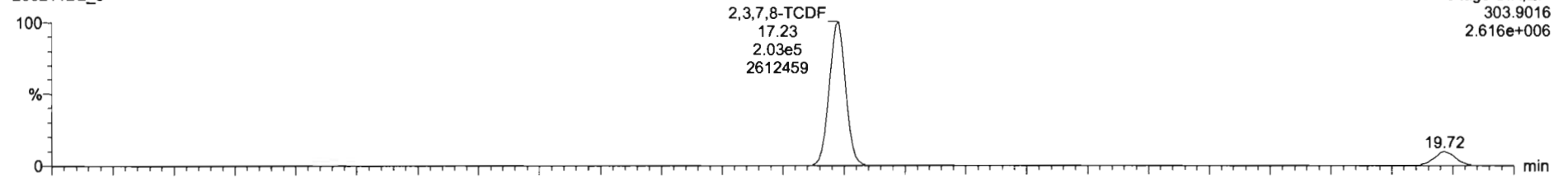
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

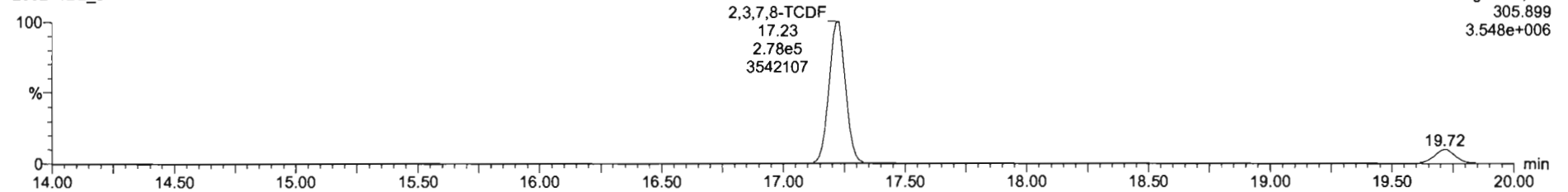
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

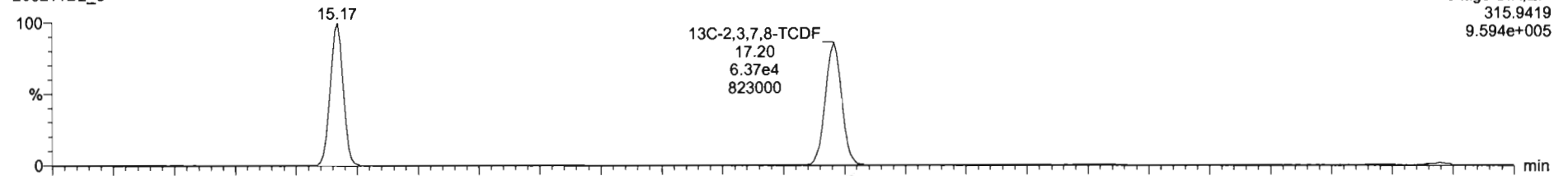
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

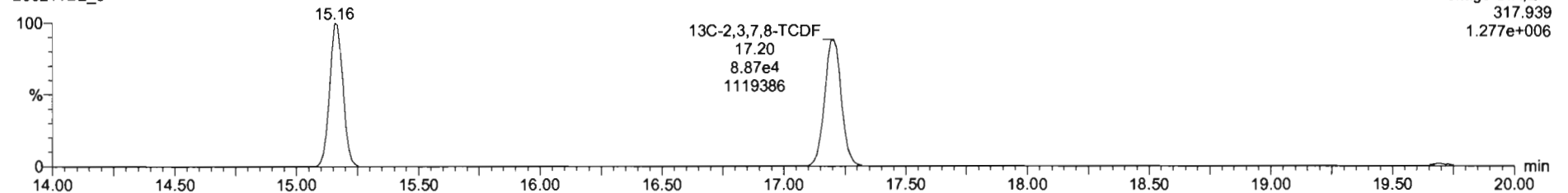
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

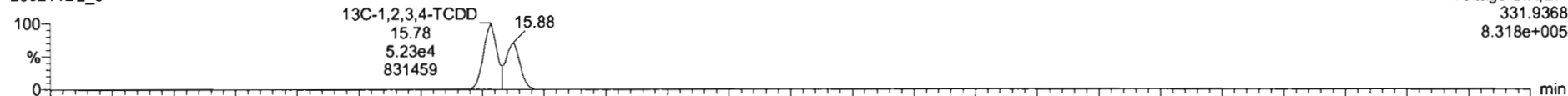
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

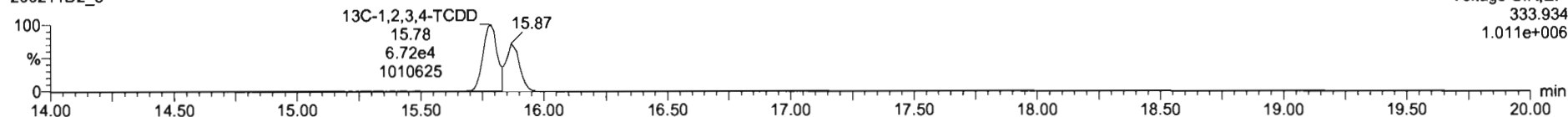
Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200211D2_8

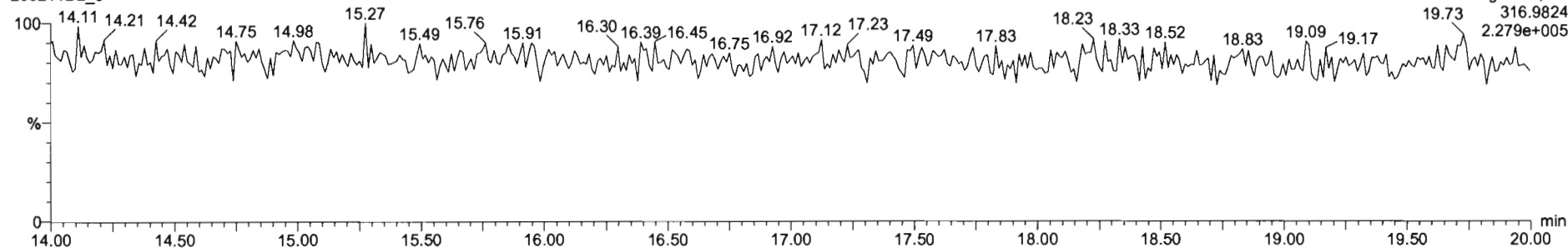


200211D2_8



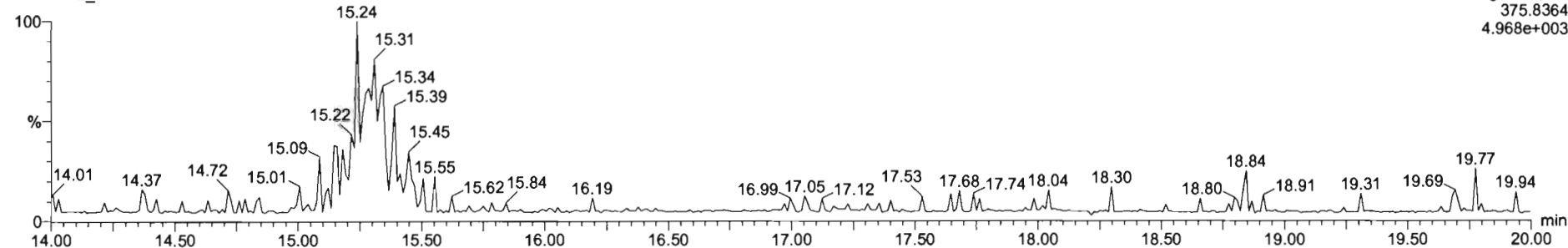
PFK1

200211D2_8

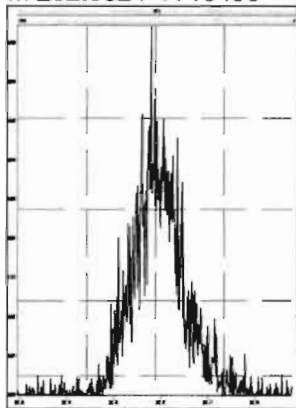


DPE1

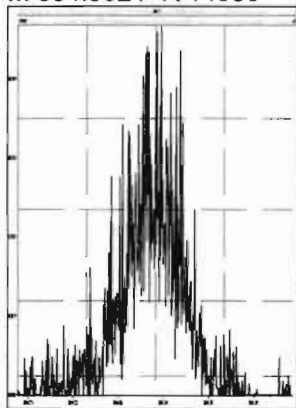
200211D2_8



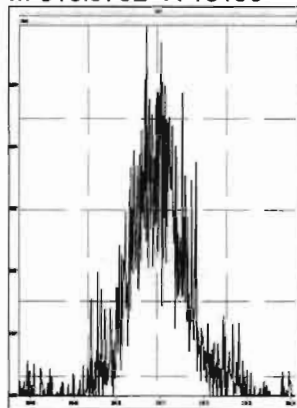
M 292.9824 R 13493



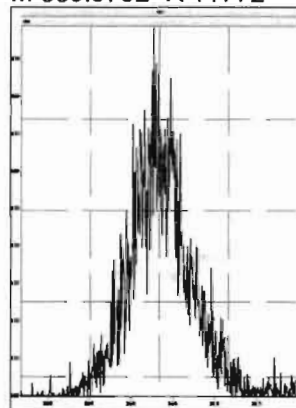
M 304.9824 R 14983



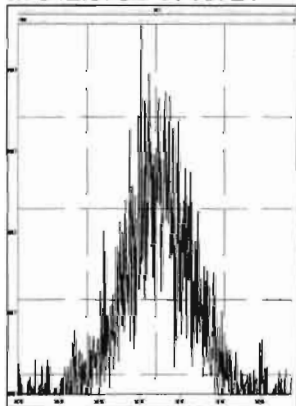
M 318.9792 R 15196



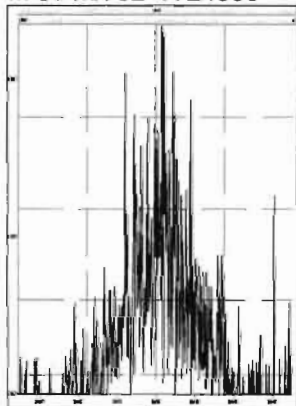
M 330.9792 R 11772



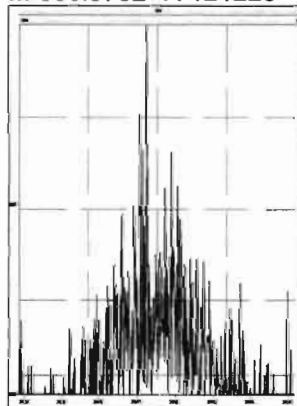
M 342.9792 R 13721



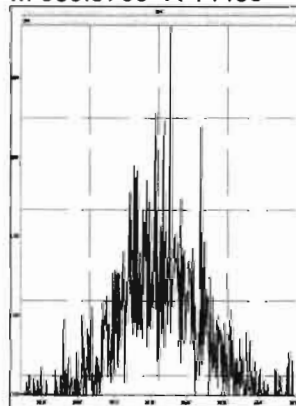
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

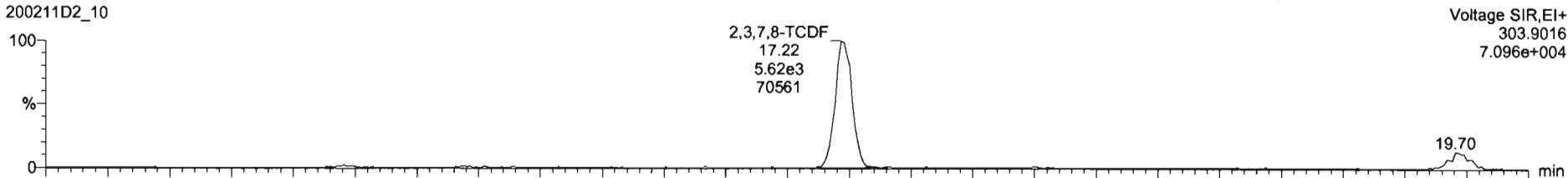
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

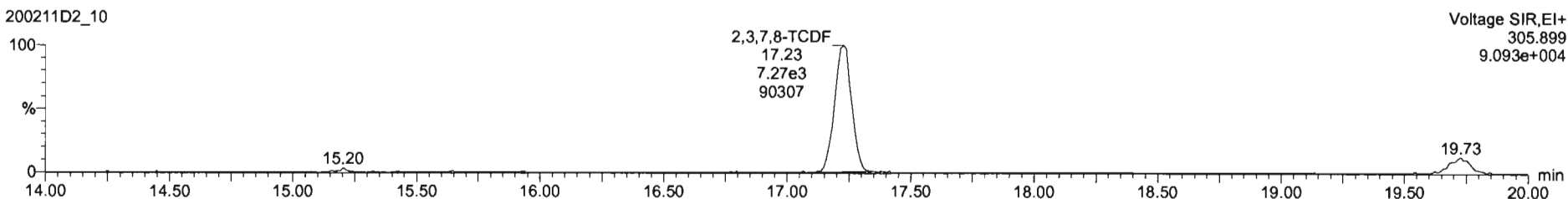
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

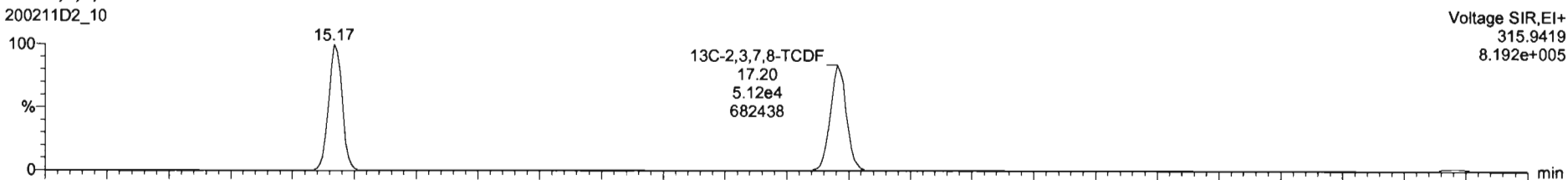


200211D2_10

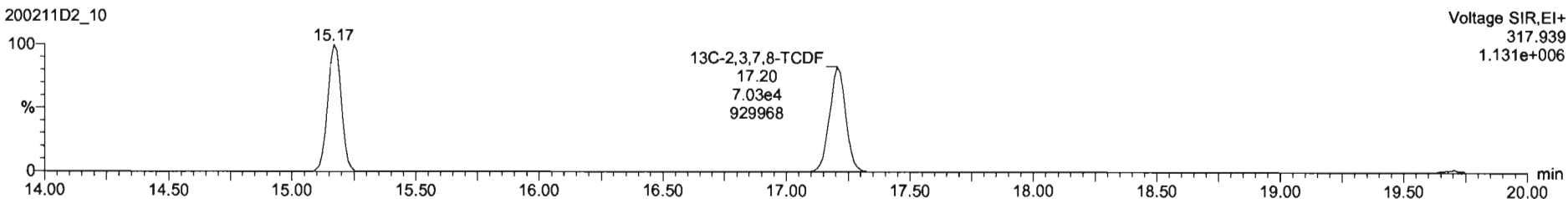


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



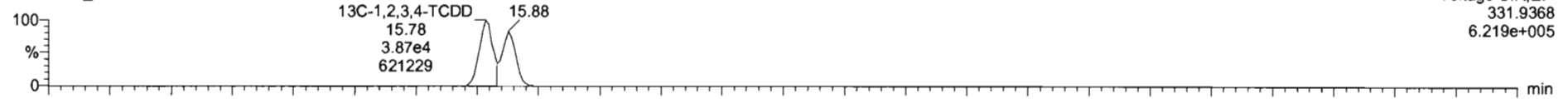
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

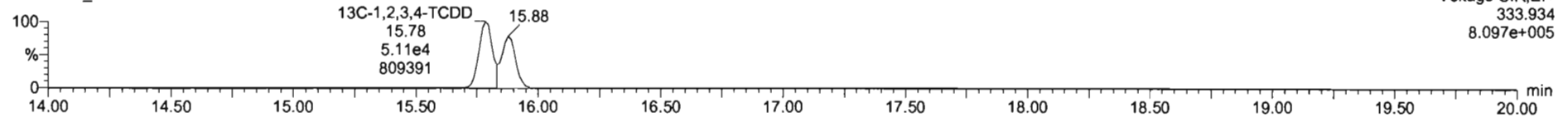
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

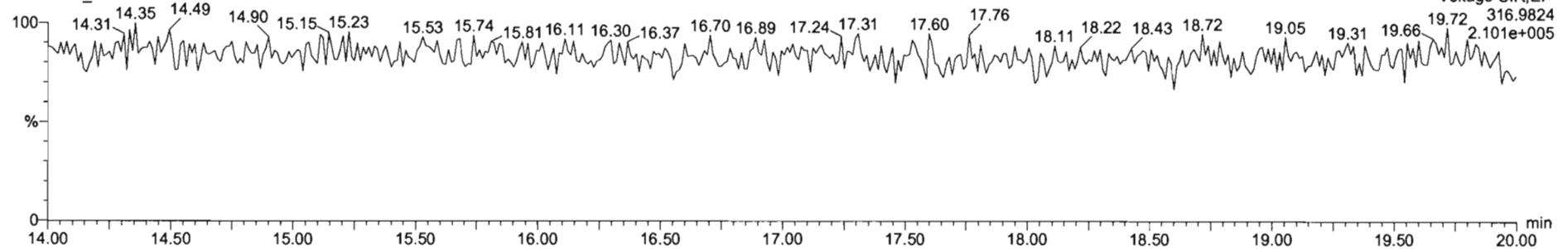


200211D2_10



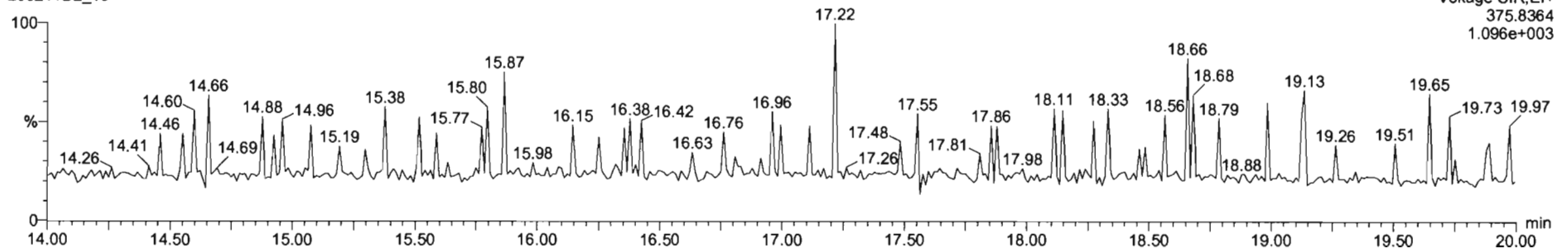
PFK1

200211D2_10



DPE1

200211D2_10



Dataset: U:\VG12.PRO\Results\200309R2\200309R2-CRV.qld

Last Altered: Tuesday, March 10, 2020 8:18:28 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 8:19:39 AM Pacific Daylight Time

GRB 03/10/2020

CT 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

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

Response Factor: 0.820787

RRF SD: 0.107593, Relative SD: 13.1085

Response type: Internal Std (Ref 2), 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	200309R2_2	0.250	0.77	NO	16.58	1.001	4.20e3	1.63e6	0.314	25.4	1.03	MM
2	200309R2_3	0.500	0.73	NO	16.59	1.001	5.46e3	1.37e6	0.487	-2.7	0.799	MM
3	200309R2_4	2.00	0.74	NO	16.56	1.001	2.05e4	1.37e6	1.81	-9.3	0.745	bb
4	200309R2_5	10.0	0.75	NO	16.56	1.001	1.02e5	1.39e6	8.95	-10.5	0.735	bb
5	200309R2_6	40.0	0.74	NO	16.56	1.001	5.13e5	1.61e6	38.8	-3.0	0.796	bb
6	200309R2_7	300	0.76	NO	16.56	1.001	4.09e6	1.66e6	300	-0.0	0.821	bb

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

Response Factor: 1.10088

RRF SD: 0.097324, Relative SD: 8.84057

Response type: Internal Std (Ref 3), 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	200309R2_2	100	0.78	NO	16.56	1.147	1.63e6	1.30e6	114	13.7	1.25	bb
2	200309R2_3	100	0.77	NO	16.56	1.147	1.37e6	1.38e6	89.9	-10.1	0.990	bb
3	200309R2_4	100	0.77	NO	16.54	1.146	1.37e6	1.38e6	90.5	-9.5	0.996	bb
4	200309R2_5	100	0.77	NO	16.54	1.147	1.39e6	1.25e6	102	1.6	1.12	bb
5	200309R2_6	100	0.77	NO	16.54	1.146	1.61e6	1.43e6	102	2.2	1.13	bb
6	200309R2_7	100	0.77	NO	16.54	1.146	1.66e6	1.48e6	102	2.0	1.12	bb

Dataset: U:\VG12.PRO\Results\200309R2\200309R2-CRV.qld

Last Altered: Tuesday, March 10, 2020 8:18:28 AM Pacific Daylight Time
 Printed: Tuesday, March 10, 2020 8:19:39 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 3), 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	200309R2_2	100	0.79	NO	14.45	1.000	1.30e6	1.30e6	100	0.0	1.00	bb
2	200309R2_3	100	0.79	NO	14.45	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
3	200309R2_4	100	0.79	NO	14.44	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200309R2_5	100	0.78	NO	14.42	1.000	1.25e6	1.25e6	100	0.0	1.00	bb
5	200309R2_6	100	0.79	NO	14.44	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
6	200309R2_7	100	0.78	NO	14.44	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 11994.1

RRF SD: 1070.13, Relative SD: 8.92214

Response type: External Std, Area

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.77	NO	15.08	0.000	1.28e6		107	6.6	12800	bd
2	200309R2_3	100	0.78	NO	15.06	0.000	1.08e6		90.4	-9.6	10800	bd
3	200309R2_4	100	0.77	NO	15.05	0.000	1.11e6		92.2	-7.8	11100	bd
4	200309R2_5	100	0.75	NO	15.05	0.000	1.12e6		93.6	-6.4	11200	bd
5	200309R2_6	100	0.77	NO	15.05	0.000	1.28e6		107	6.5	12800	bd
6	200309R2_7	100	0.78	NO	15.05	0.000	1.33e6		111	10.8	13300	bd

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 8:04:02 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:04:32 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 07:53:03

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

	Name	ID	Acq.Date	Acq.Time
1	200309R2_1	CP200309R2_1 225 CPSM	09-Mar-20	17:55:29
2	200309R2_2	ST200309R2_1 1613 CS0 19L2302	09-Mar-20	18:25:43
3	200309R2_3	ST200309R2_2 1613 CS1 19L2303	09-Mar-20	18:56:05
4	200309R2_4	ST200309R2_3 1613 CS2 19L2304	09-Mar-20	19:26:33
5	200309R2_5	ST200309R2_4 1613 CS3 19L2305	09-Mar-20	19:57:01
6	200309R2_6	ST200309R2_5 1613 CS4 19L2306	09-Mar-20	20:27:25
7	200309R2_7	ST200309R2_6 1613 CS5 19L2307	09-Mar-20	20:57:48
8	200309R2_8	SOLVENT BLANK	09-Mar-20	21:28:11
9	200309R2_9	SS200309R2_1 1613 SSS 19L2308	09-Mar-20	21:58:38
10	200309R2_10	SOLVENT BLANK	09-Mar-20	22:29:05
11	200309R2_11	1904012-10RE2 PX-S23-SB48-0203 10.92	09-Mar-20	22:59:38
12	200309R2_12	2000301-01RE2 PDI-077SC-A-02-03-191014 ...	09-Mar-20	23:29:57
13	200309R2_13	B0B0291-DUP1 Duplicate 18.51	10-Mar-20	00:00:21
14	200309R2_14	2000407-01RE1 PDI-084SC-A-05-06-191002 ...	10-Mar-20	00:30:51
15	200309R2_15	2000407-02RE1 PDI-084SC-A-06-07-191002 ...	10-Mar-20	01:01:18
16	200309R2_16	2000407-03RE1 PDI-084SC-A-07-08-191002 ...	10-Mar-20	01:31:45
17	200309R2_17	2000407-04RE1 PDI-084SC-A-08-09-191002 ...	10-Mar-20	02:02:13
18	200309R2_18	2000407-05RE1 PDI-084SC-A-09-10-191002 ...	10-Mar-20	02:32:40
19	200309R2_19	2000407-06RE1 PDI-084SC-A-10-11-191002 ...	10-Mar-20	03:03:07
20	200309R2_20	2000407-07RE1 PDI-084SC-A-11-12-191002 ...	10-Mar-20	03:33:35

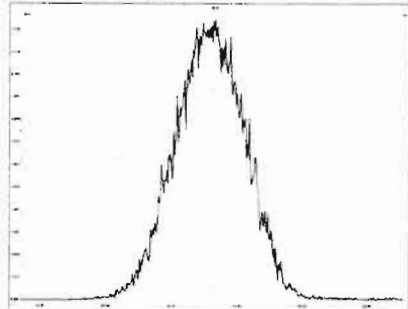
Experiment Calibration Report

MassLynx 4.1 SCN815

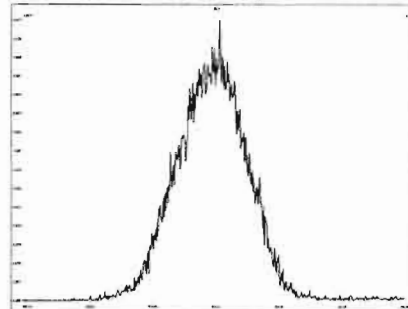
File: Experiment: tcdf_db225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, March 09, 2020 17:53:48 Pacific Daylight Time

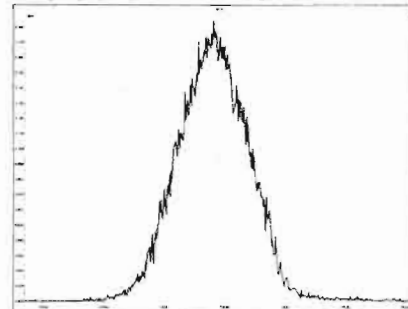
M 292.9824 R 12197



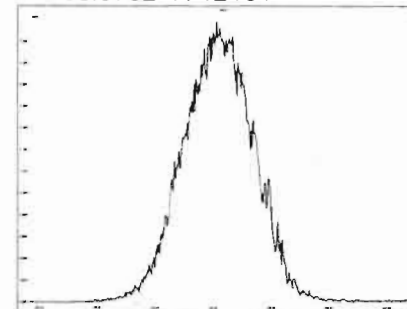
M 304.9824 R 12886



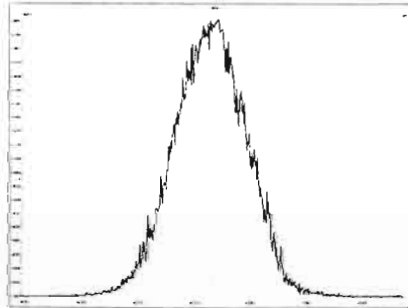
M 318.9792 R 12258



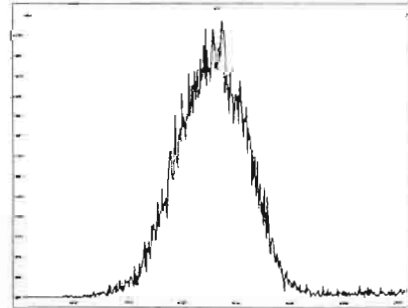
M 330.9792 R 12131



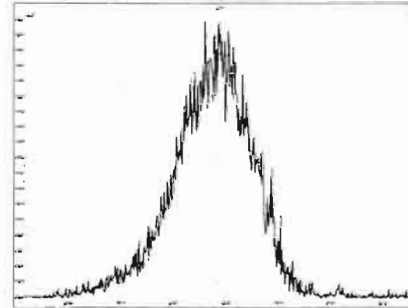
M 342.9792 R 11960



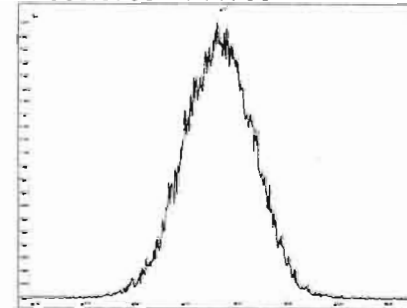
M 354.9792 R 13154



M 366.9792 R 10504



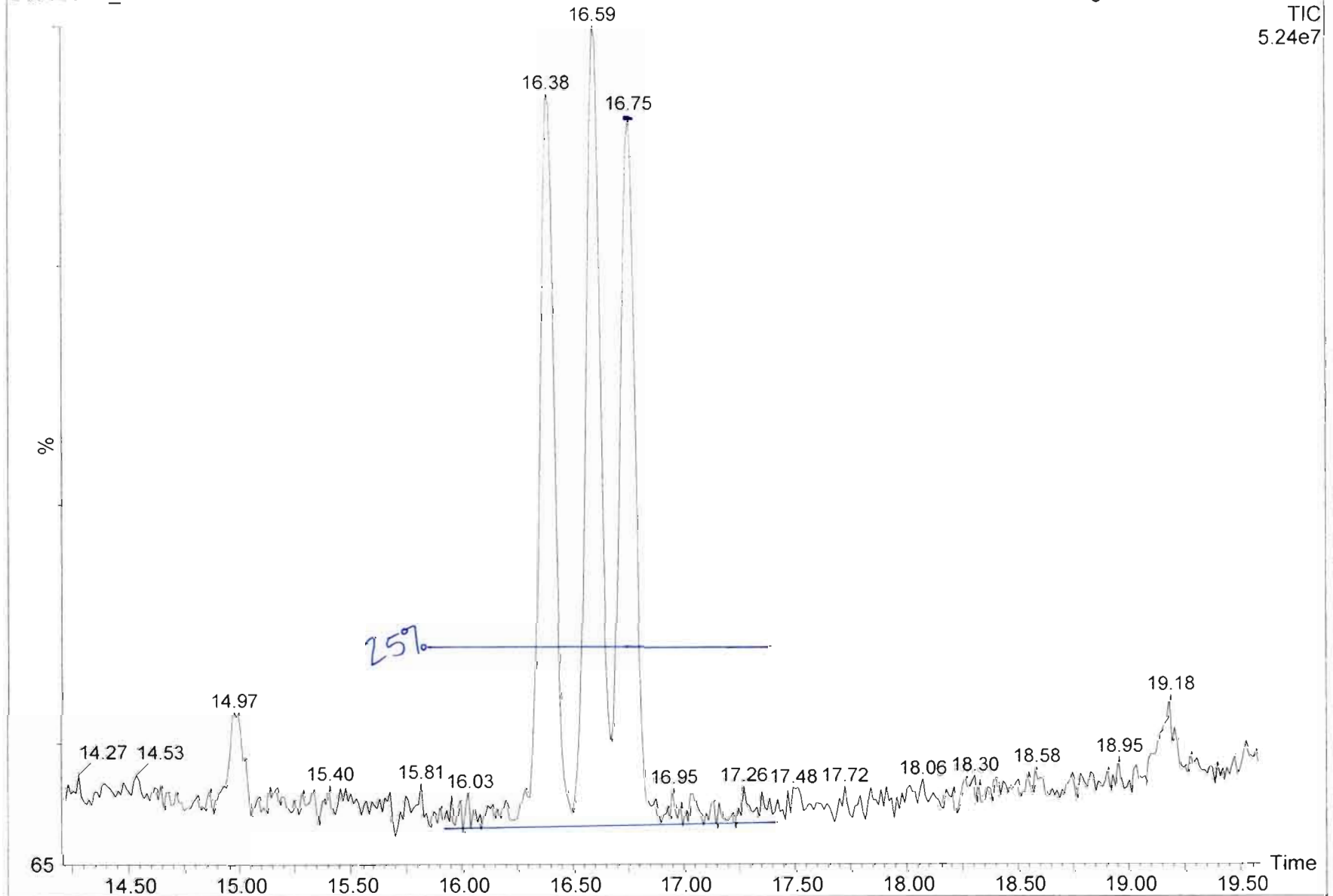
M 380.9760 R 11795



GRB 03/10/2020

225 CPSM
200309R2_1

Voltage SIR 12 Channels EI+
TIC
5.24e7



Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

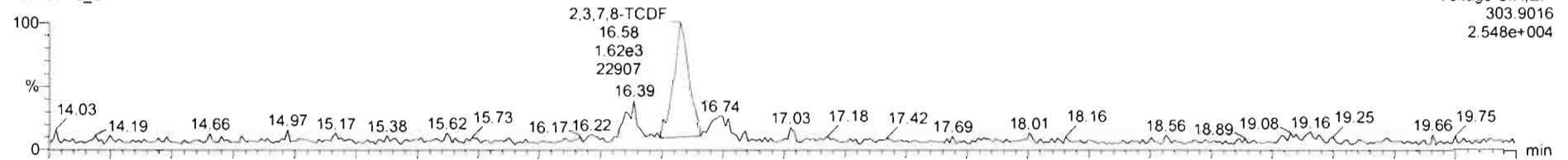
Method: U:\VG11.PRO\MethDB\tcdf.mdb 31 Jan 2020 08:42:36

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

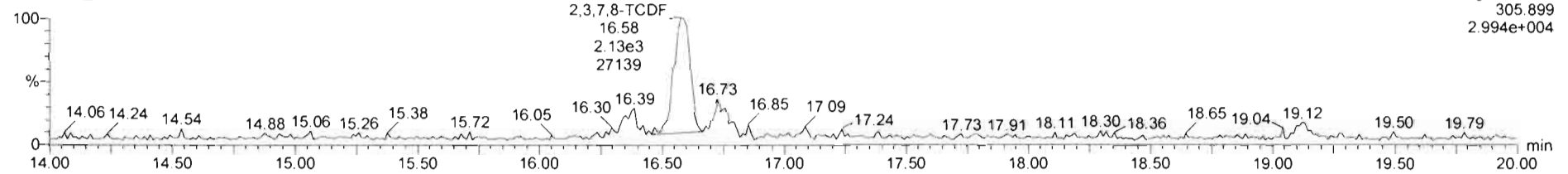
Name: 200309R2_2, Date: 09-Mar-2020, Time: 18:25:43, ID: ST200309R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200309R2_2

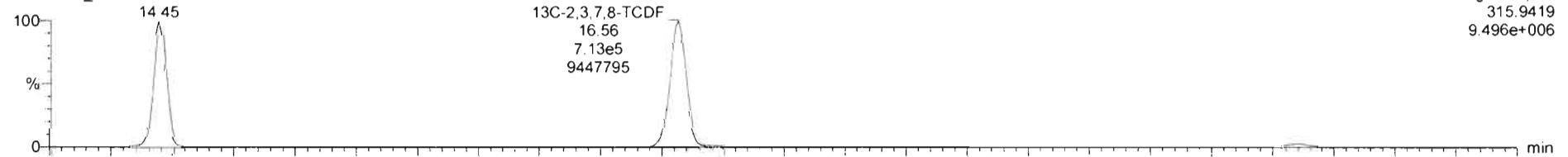


200309R2_2

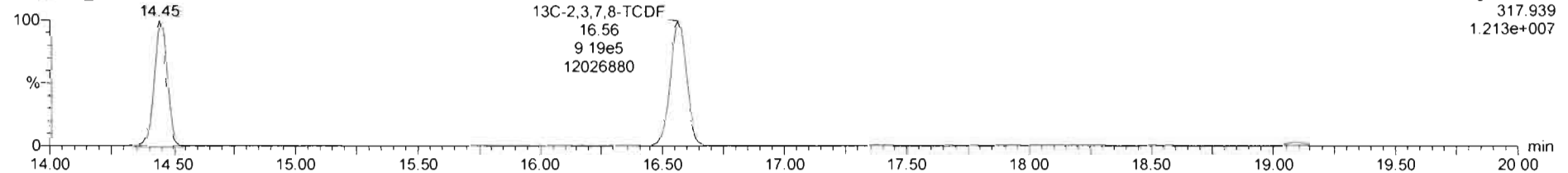


13C-2,3,7,8-TCDF

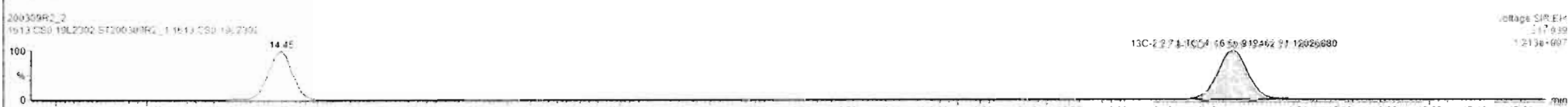
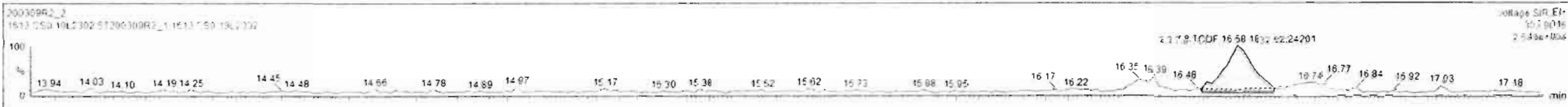
200309R2_2



200309R2_2



Sl	Name	RT	RA	Yln	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDF	16.58	0.774	NO	4.2011e3	1.6321e6	0.250	24.2	13.0	6.829	0.107
2	13C-2,3,7,8-TCDF	16.58	0.775	NO	1.6321e5	1.3038e6	100.000	12.7	2.84	1.10	0.0973
3	13C-1,2,3,4-TCDF	14.45	0.787	NO	1.3038e6	1.3038e6	100.000	6.0	0.000	1.00	0.000
4	13C-1,2,3,4-TCDD	15.08	0.790	NO	1.2780e6		100.000	6.8	8.92	12000	1070
5	PFK1						1.000				
6	DPE1						1.000				



Dataset: Untitled

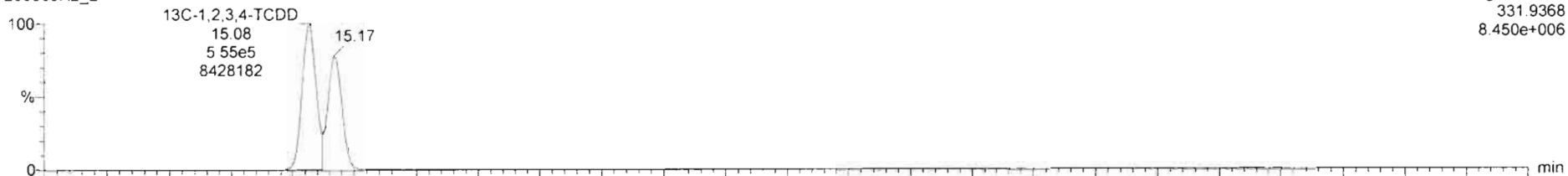
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

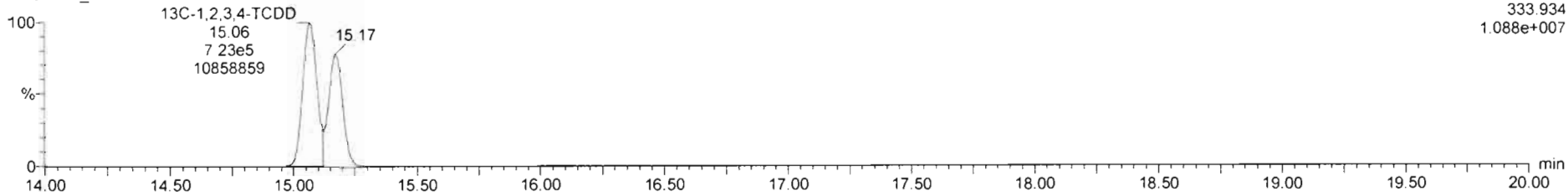
Name: 200309R2_2, Date: 09-Mar-2020, Time: 18:25:43, ID: ST200309R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200309R2_2

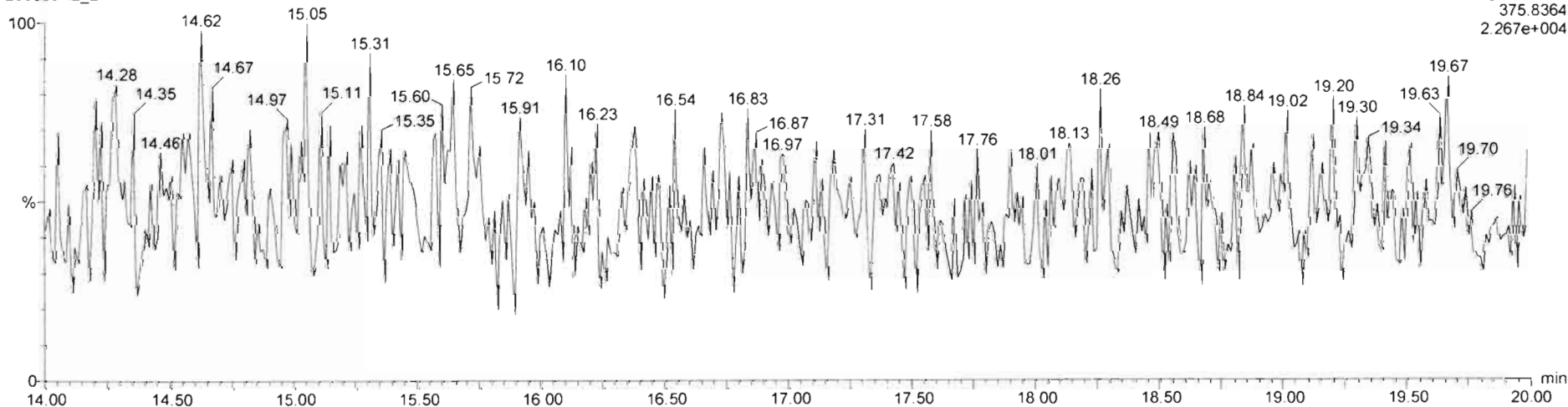


200309R2_2



DPE1

200309R2_2



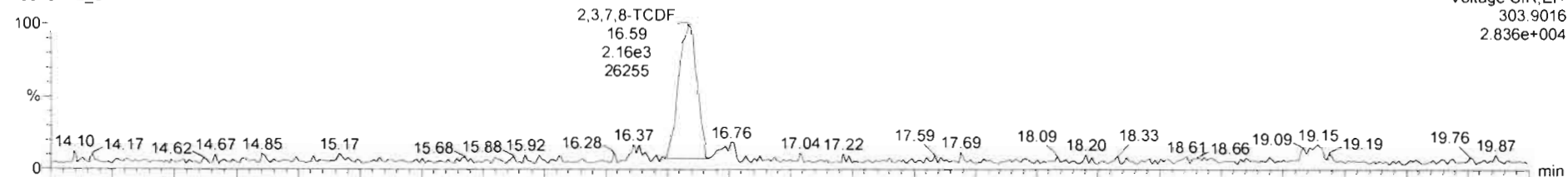
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

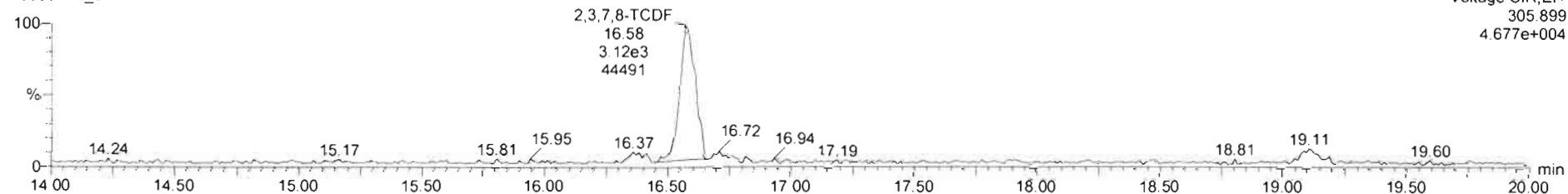
Name: 200309R2_3, Date: 09-Mar-2020, Time: 18:56:05, ID: ST200309R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200309R2_3

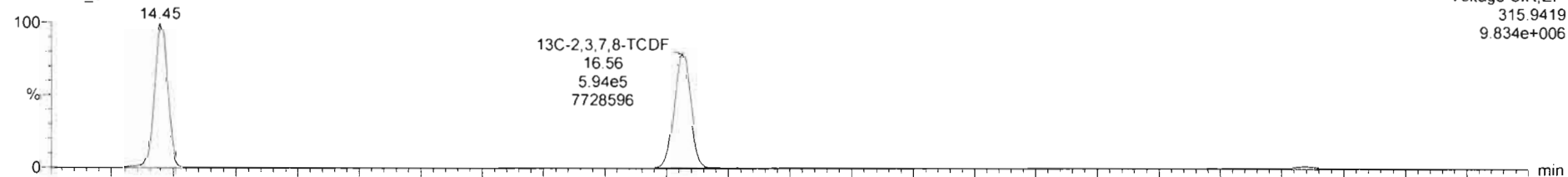


200309R2_3

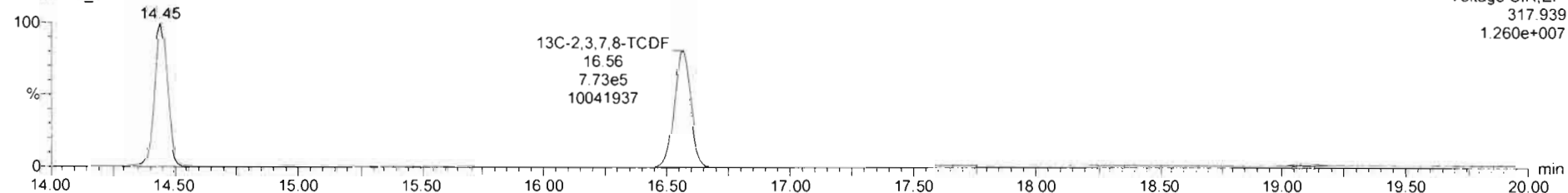


13C-2,3,7,8-TCDF

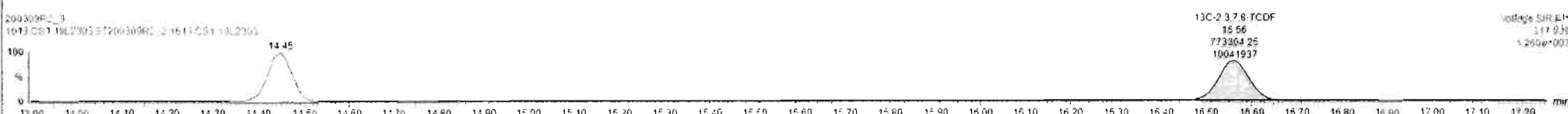
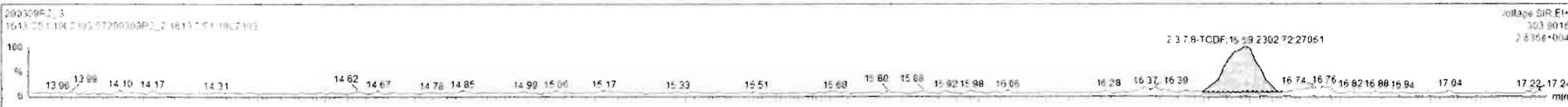
200309R2_3



200309R2_3



#	Name	RT	RA	Y/N	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2 3 7 8-TCDF	16.56	0.729	NO	5.4614e3	1.3676e6	0.500	-2.7	13.1	0.021	0.108
2	13C 2 3 7 8-TCDF	16.56	0.768	NO	1.3676e6	1.3812e6	100.000	-10.1	2.84	1.10	0.0973
3	13C 1 2 3 4-TCDF	14.45	0.781	NO	1.3812e6	1.3812e6	100.000	0.0	0.000	1.00	0.000
4	13C 1 2 3 4-TCDD	15.96	0.777	NO	1.0641e6		100.000	-9.6	8.92	12000	1070
5	DPK1						1.000				
6	DPS1						1.000				



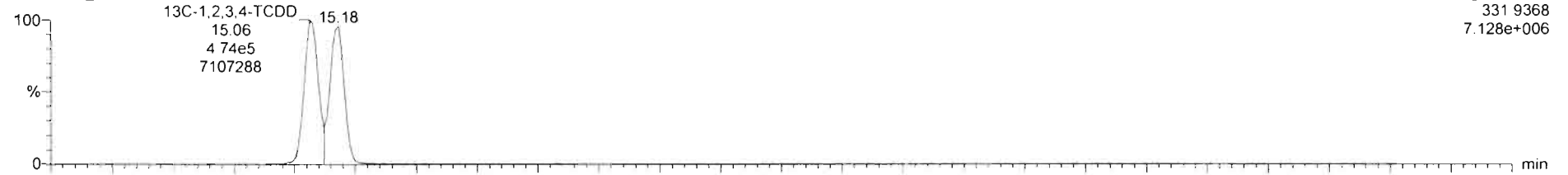
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

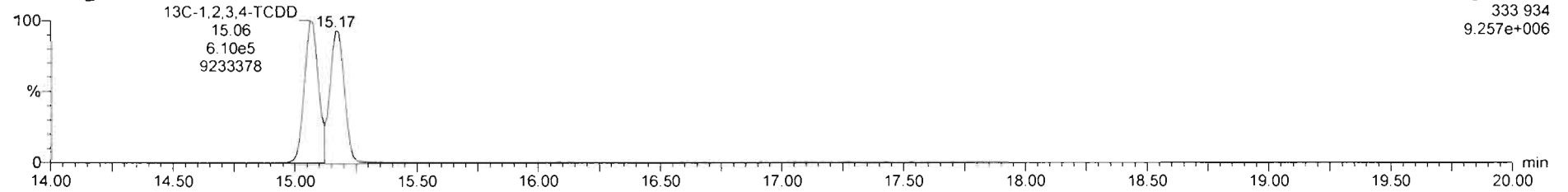
Name: 200309R2_3, Date: 09-Mar-2020, Time: 18:56:05, ID: ST200309R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200309R2_3

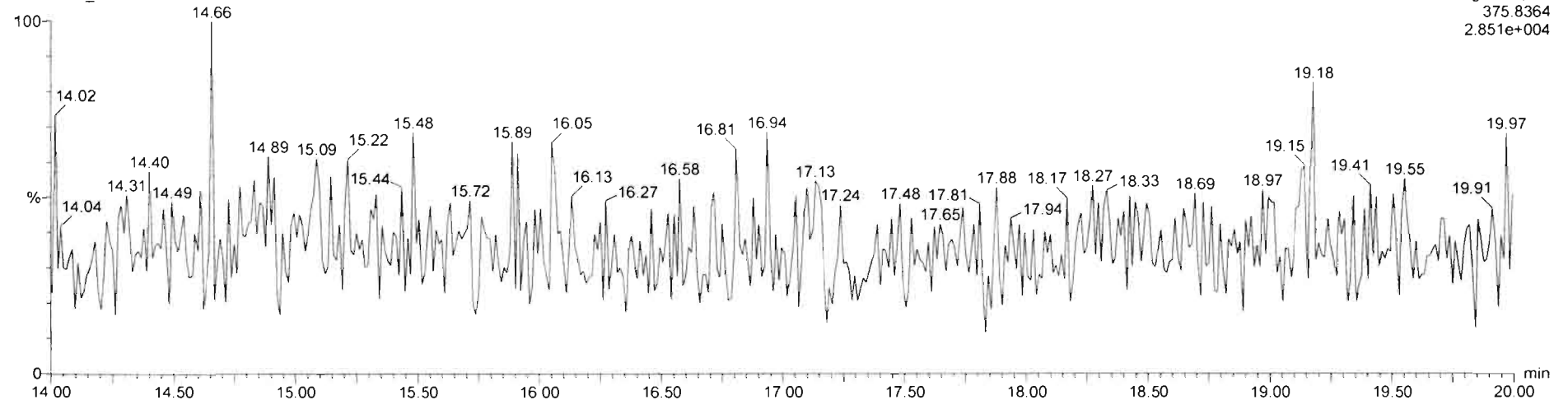


200309R2_3



DPE1

200309R2_3



Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

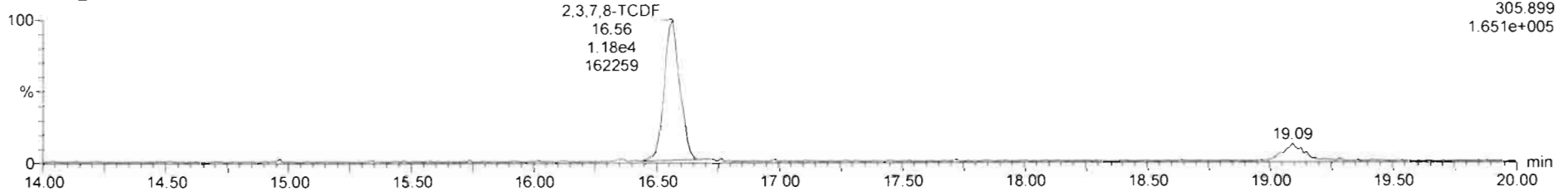
Name: 200309R2_4, Date: 09-Mar-2020, Time: 19:26:33, ID: ST200309R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

2,3,7,8-TCDF

200309R2_4

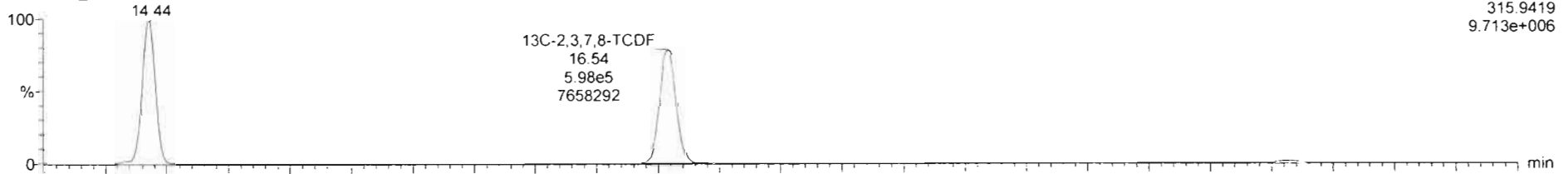


200309R2_4

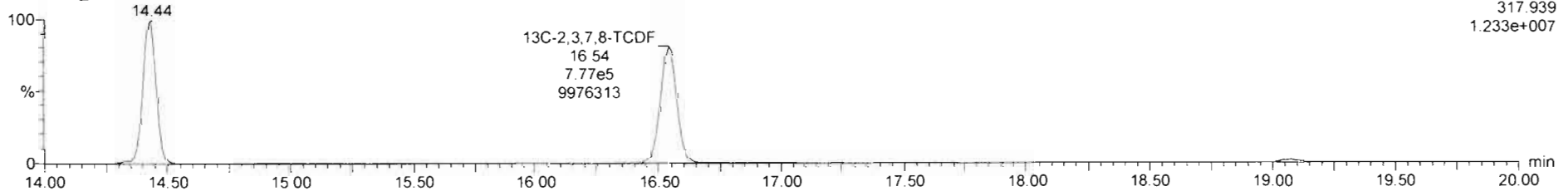


13C-2,3,7,8-TCDF

200309R2_4



200309R2_4



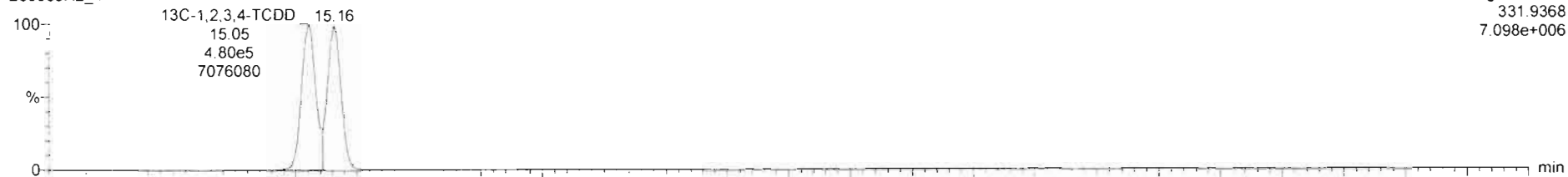
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

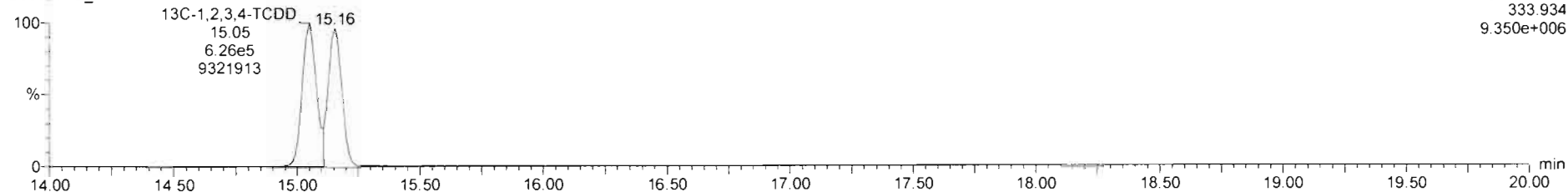
Name: 200309R2_4, Date: 09-Mar-2020, Time: 19:26:33, ID: ST200309R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200309R2_4

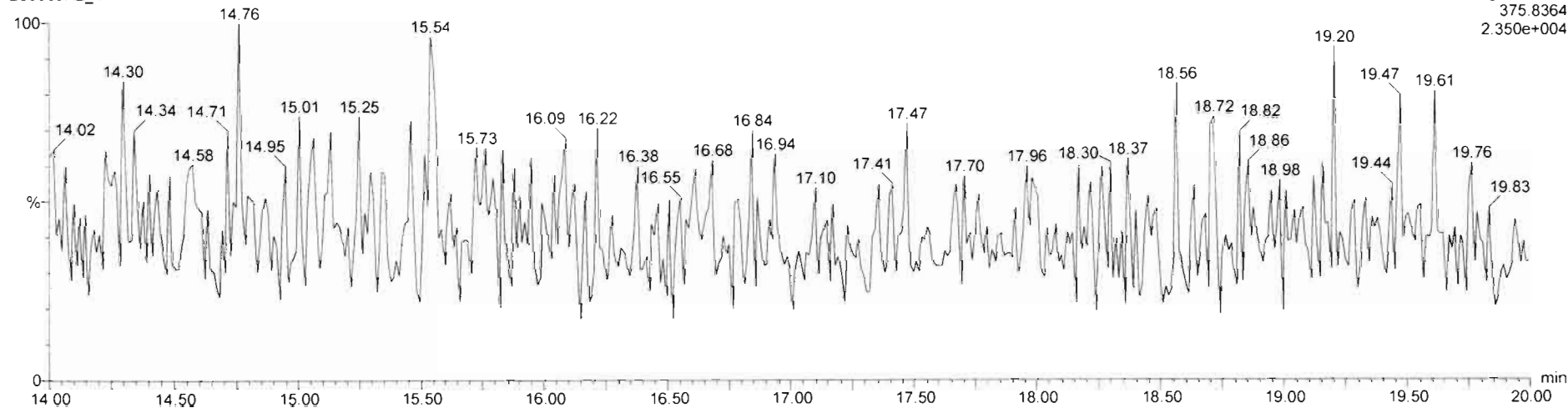


200309R2_4



DPE1

200309R2_4



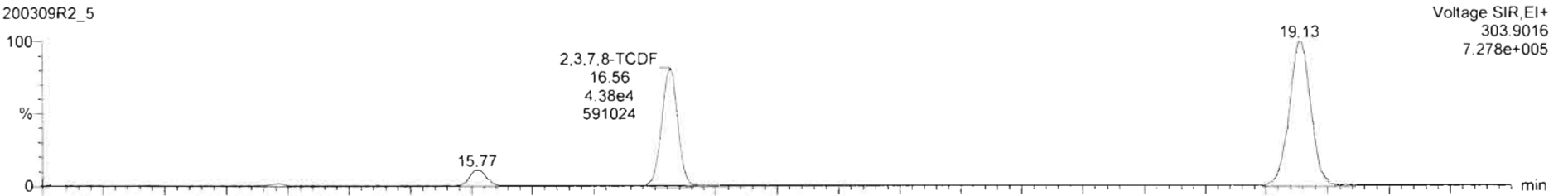
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

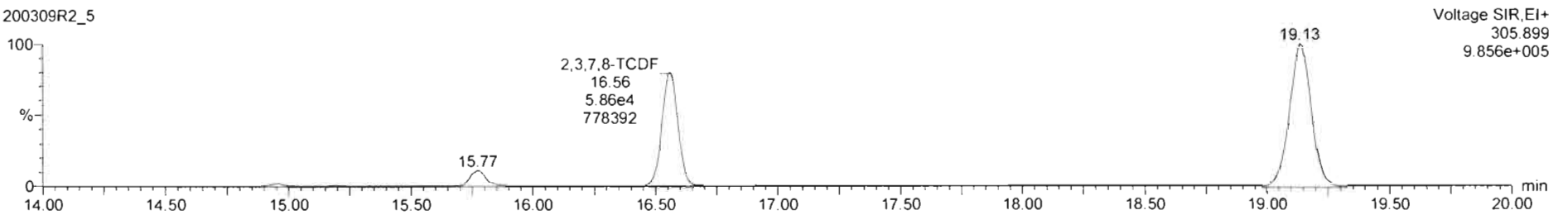
Name: 200309R2_5, Date: 09-Mar-2020, Time: 19:57:01, ID: ST200309R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200309R2_5

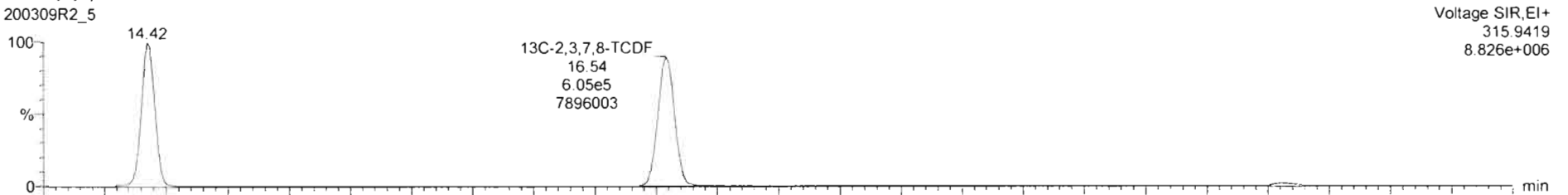


200309R2_5

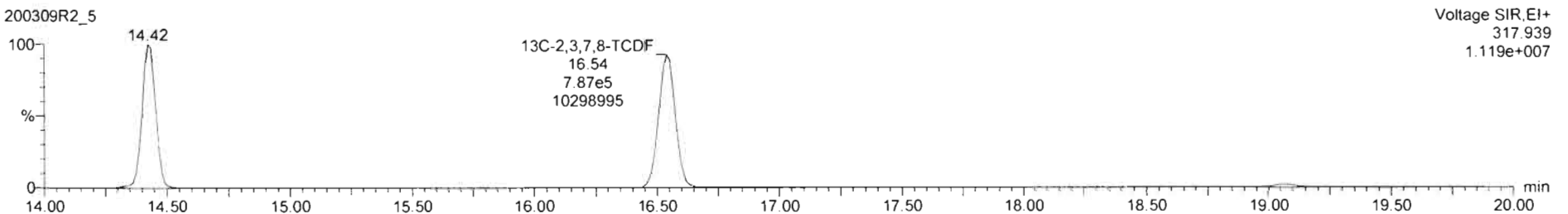


13C-2,3,7,8-TCDF

200309R2_5



200309R2_5



Dataset: Untitled

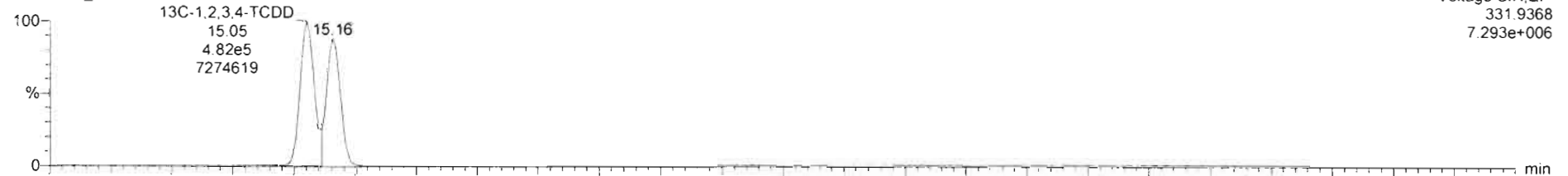
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

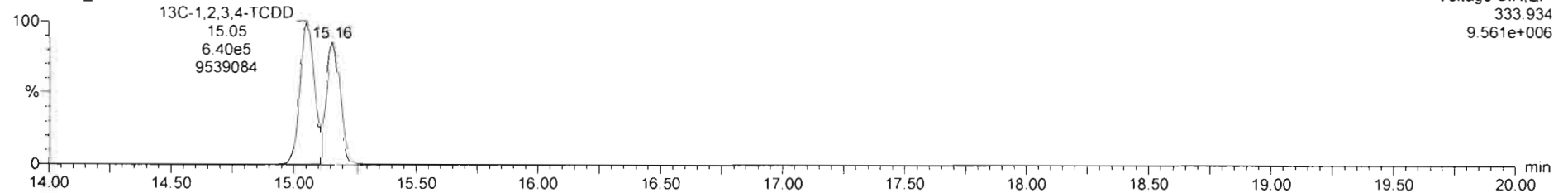
Name: 200309R2_5, Date: 09-Mar-2020, Time: 19:57:01, ID: ST200309R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200309R2_5

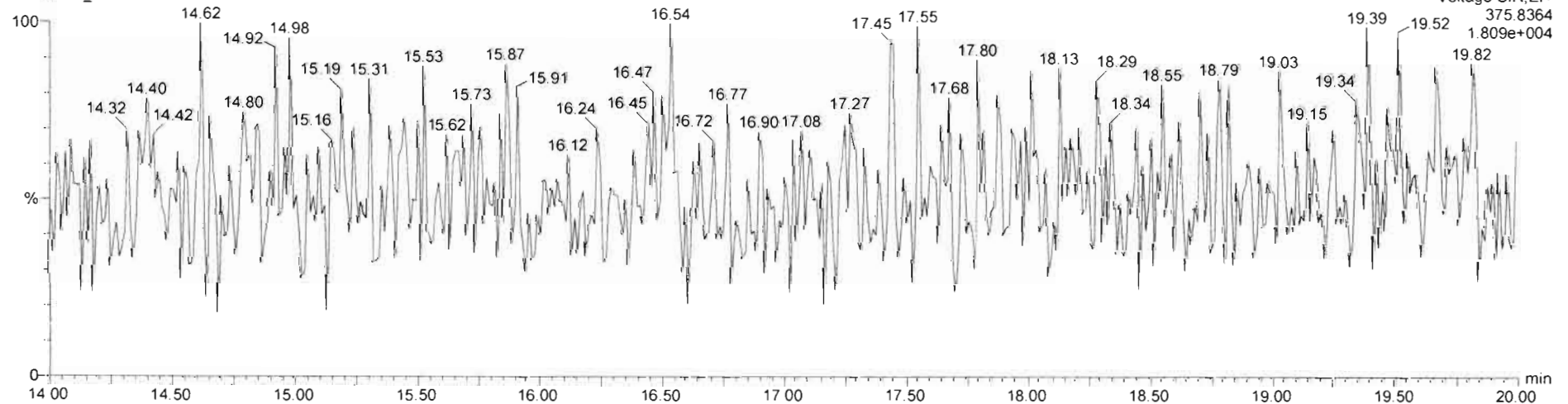


200309R2_5



DPE1

200309R2_5



Dataset: Untitled

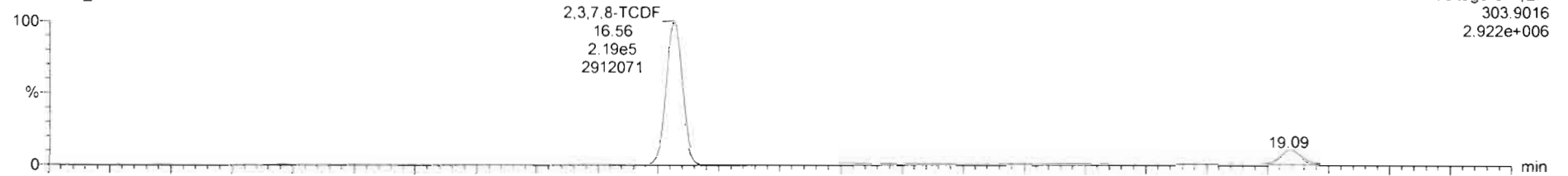
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

Name: 200309R2_6, Date: 09-Mar-2020, Time: 20:27:25, ID: ST200309R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

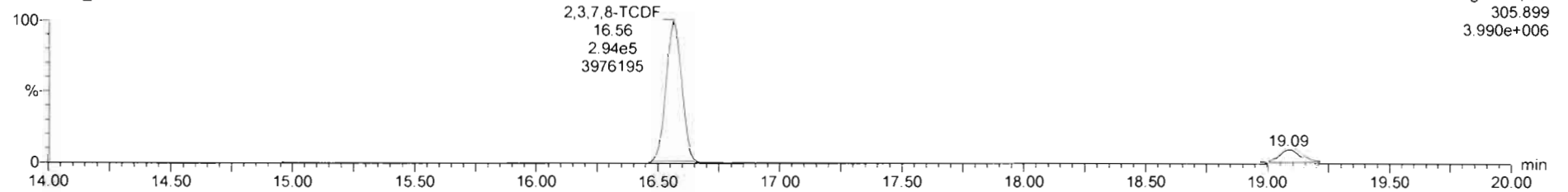
2,3,7,8-TCDF

200309R2_6



Voltage SIR,EI+
303.9016
2.922e+006

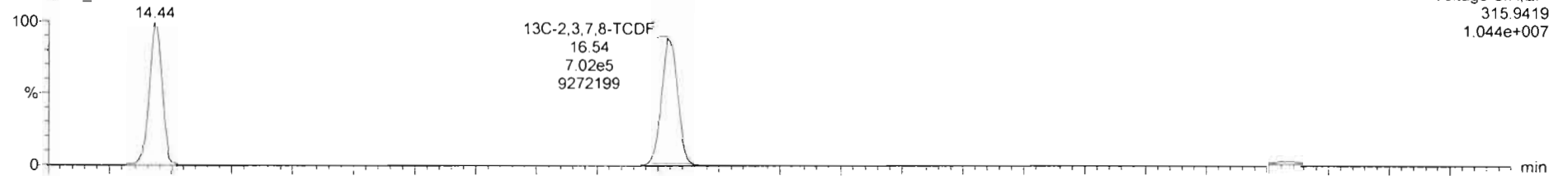
200309R2_6



Voltage SIR,EI+
305.899
3.990e+006

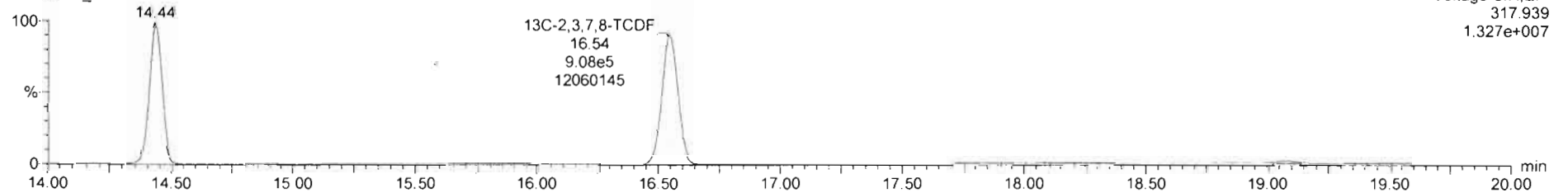
13C-2,3,7,8-TCDF

200309R2_6



Voltage SIR,EI+
315.9419
1.044e+007

200309R2_6



Voltage SIR,EI+
317.939
1.327e+007

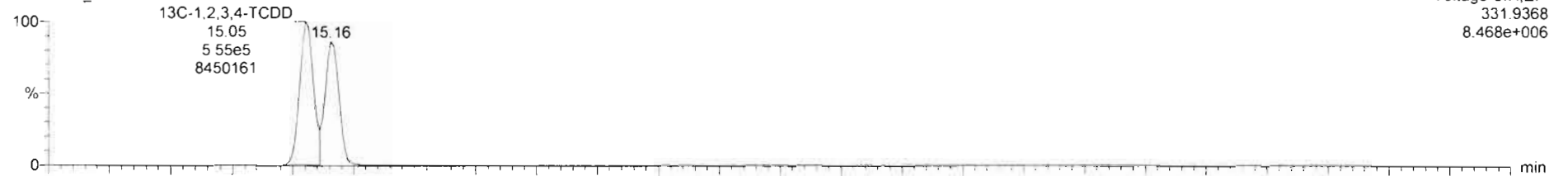
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

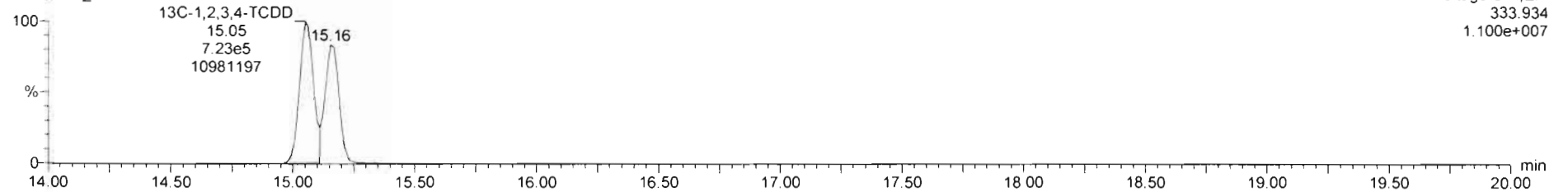
Name: 200309R2_6, Date: 09-Mar-2020, Time: 20:27:25, ID: ST200309R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200309R2_6

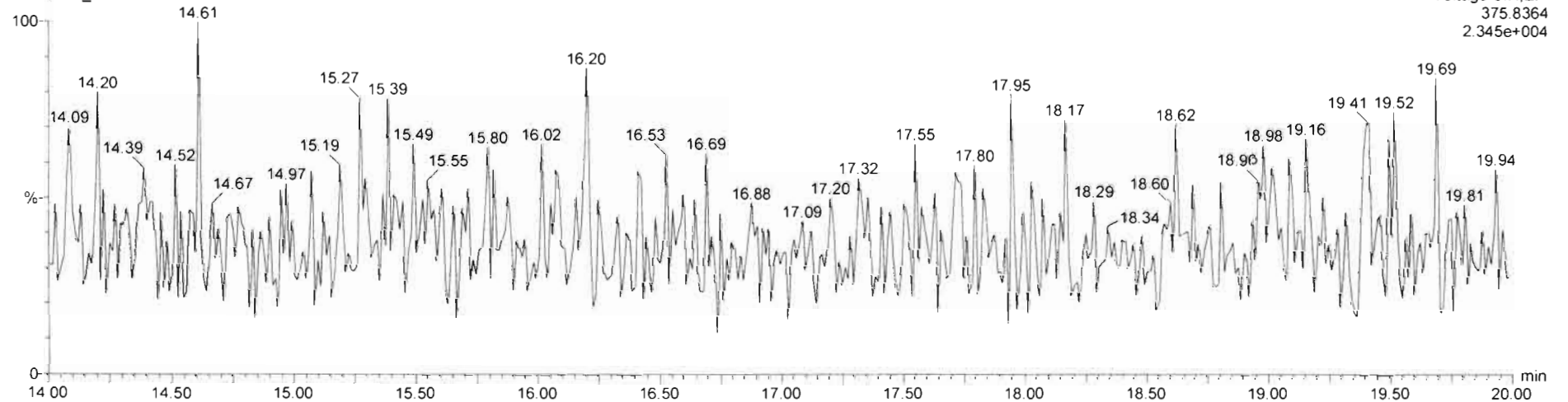


200309R2_6



DPE1

200309R2_6



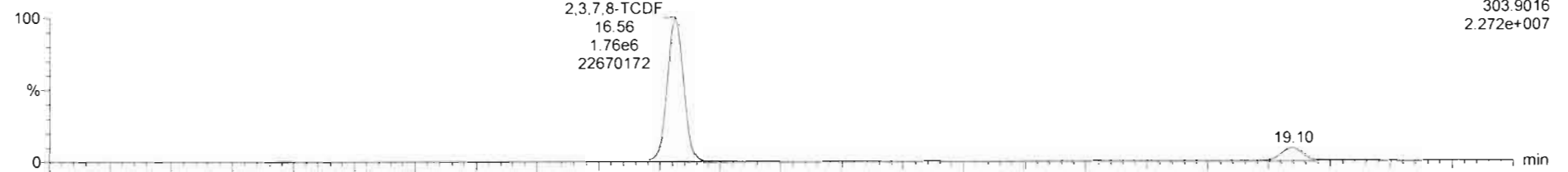
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

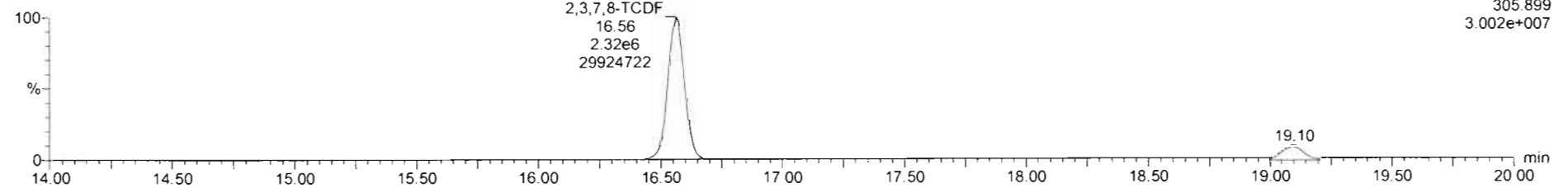
Name: 200309R2_7, Date: 09-Mar-2020, Time: 20:57:48, ID: ST200309R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

2,3,7,8-TCDF

200309R2_7

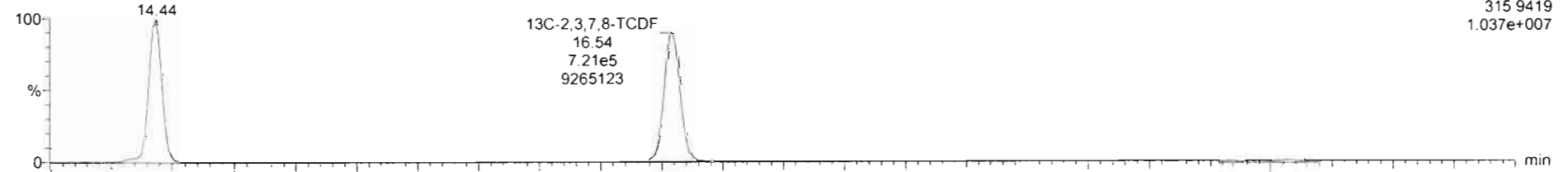


200309R2_7

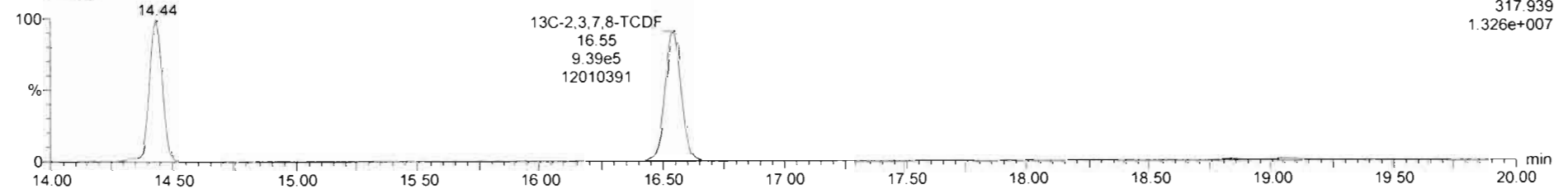


13C-2,3,7,8-TCDF

200309R2_7



200309R2_7



Dataset: Untitled

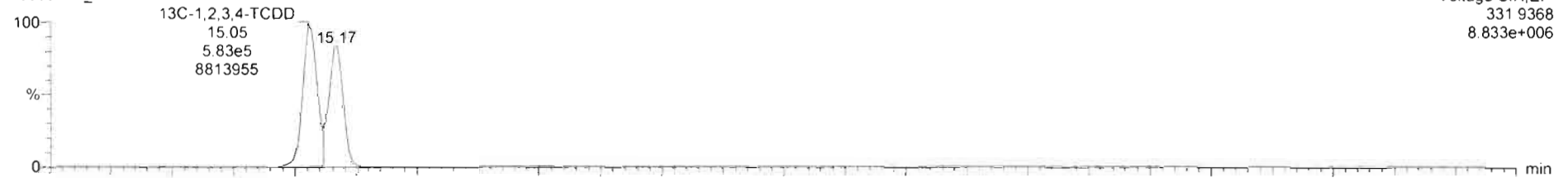
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

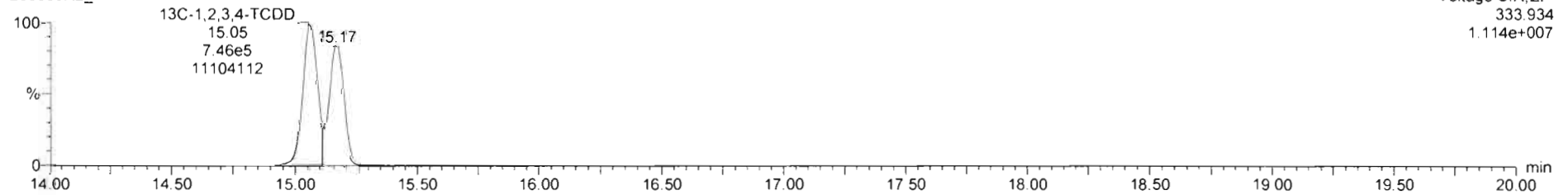
Name: 200309R2_7, Date: 09-Mar-2020, Time: 20:57:48, ID: ST200309R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200309R2_7

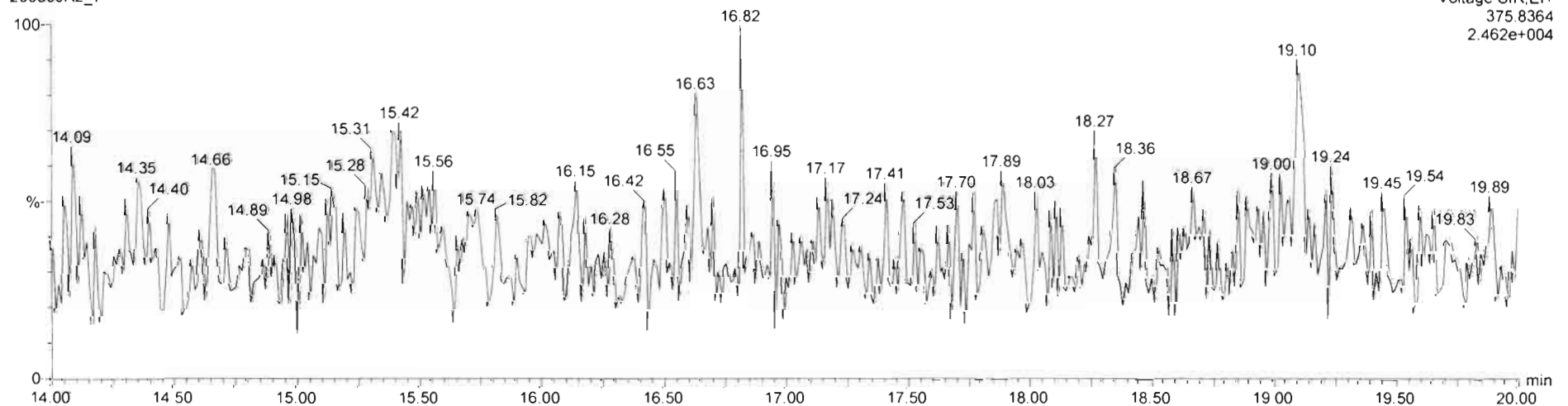


200309R2_7



DPE1

200309R2_7



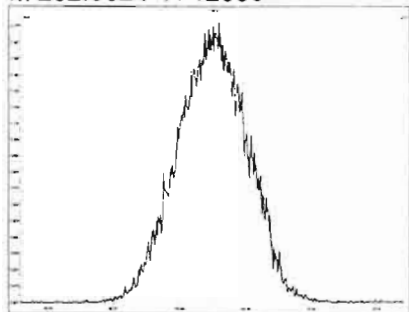
Experiment Calibration Report

MassLynx 4.1 SCN815

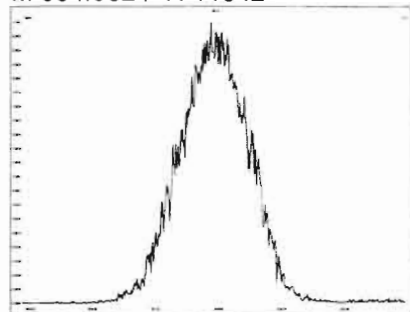
File: Experiment: tcdf_db225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 10, 2020 07:42:24 Pacific Daylight Time

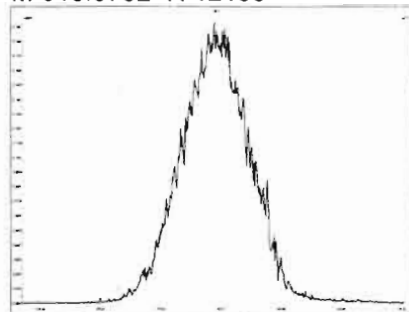
M 292.9824 R 12559



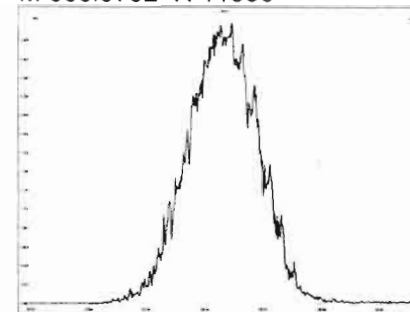
M 304.9824 R 11842



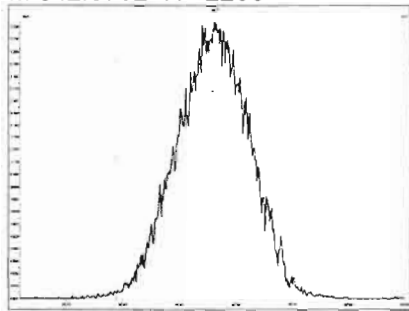
M 318.9792 R 12193



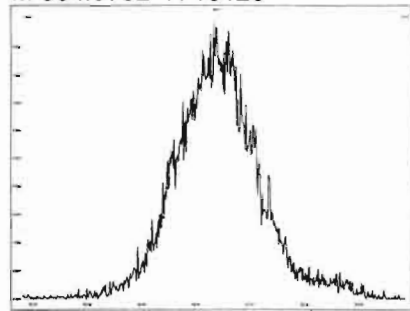
M 330.9792 R 11963



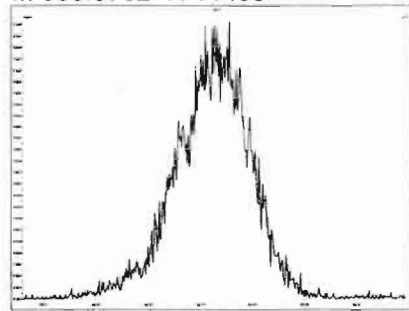
M 342.9792 R 12200



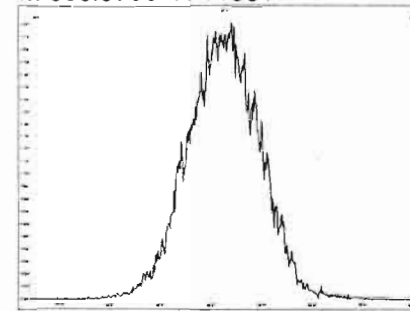
M 354.9792 R 10120



M 366.9792 R 11468



M 380.9760 R 11681



Dataset: U:\VG12.PRO\Results\200309R2\200309R2-9.qld

Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:25:09 AM Pacific Daylight Time

GRB 03/10/2020

C1 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.09e5	0.73	NO	0.821	1.000	16.56	10.163	102	0.0715
2	2 13C-2,3,7,8-TCDF	1.30e6	0.77	NO	1.10	1.000	16.54	93.316	93.3	0.191
3	3 13C-1,2,3,4-TCDF	1.27e6	0.79	NO	1.00	1.000	14.44	100.00	100	0.210

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:22:54 AM Pacific Daylight Time

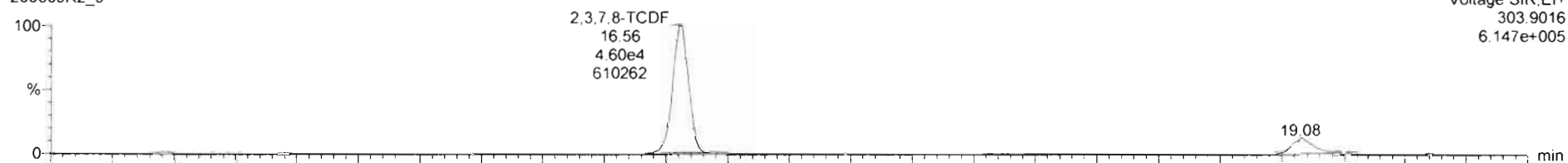
Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

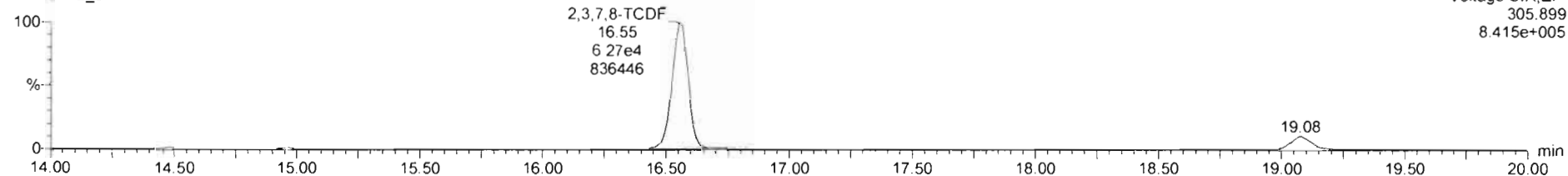
2,3,7,8-TCDF

200309R2_9



Voltage SIR,EI+
303.9016
6.147e+005

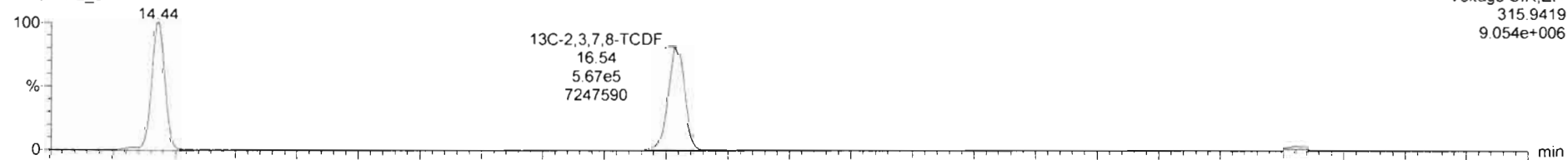
200309R2_9



Voltage SIR,EI+
305.899
8.415e+005

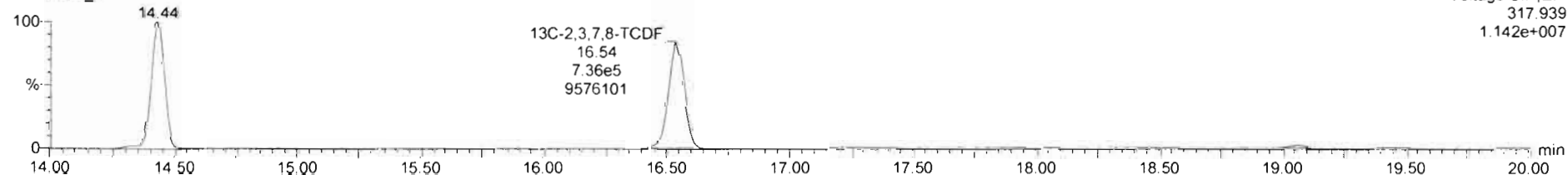
13C-2,3,7,8-TCDF

200309R2_9



Voltage SIR,EI+
315.9419
9.054e+006

200309R2_9



Voltage SIR,EI+
317.939
1.142e+007

Dataset: Untitled

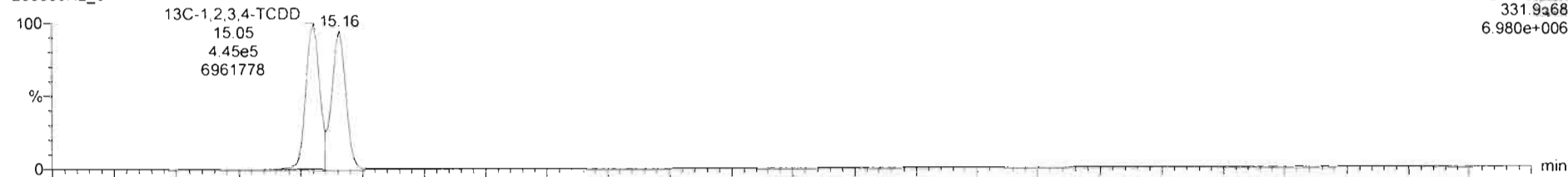
Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:22:54 AM Pacific Daylight Time

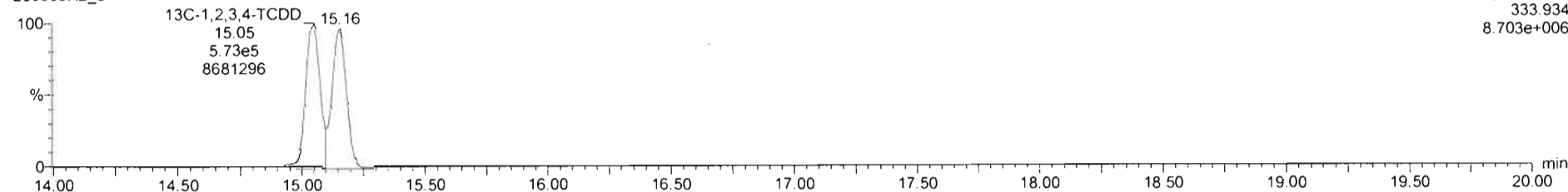
Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200309R2_9



200309R2_9



DPE1

200309R2_9

