



February 06, 2020

Vista Work Order No. 1903647

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

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 15, 2019 under your Project Name 'Gasco PDI'.

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

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

Sincerely,

Martha Maier
Laboratory Director



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

Vista Work Order No. 1903647

Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

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

As requested, a Duplicate was performed on sample "PDI-067SC-B-04-06-191010". The Duplicate RPDs were out of the acceptance criteria for 1,2,3,4,6,7,8-HpCDD and OCDD.

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1903647-01	PDI-045SC-B-04-06-191010	10-Oct-19 17:01	15-Oct-19 08:51	Amber Glass, 120 mL
1903647-02	PDI-067SC-B-00-02-191010	10-Oct-19 15:48	15-Oct-19 08:51	Amber Glass, 120 mL
1903647-03	PDI-067SC-B-02-04-191010	10-Oct-19 15:48	15-Oct-19 08:51	Amber Glass, 120 mL
1903647-04	PDI-067SC-B-04-06-191010	Dup10-Oct-19 15:48	15-Oct-19 08:51	Amber Glass, 120 mL
1903647-05	PDI-067SC-B-06-08-191010	10-Oct-19 15:48	15-Oct-19 08:51	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0A0016 Date Extracted: 05-Jan-2020 10:28		Lab Sample: B0A0016-BLK1 Date Analyzed: 30-Jan-20 18:21 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.241			IS 13C-2,3,7,8-TCDD	89.9	25 - 164		
1,2,3,7,8-PeCDD	ND	0.109			13C-1,2,3,7,8-PeCDD	102	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.124			13C-1,2,3,4,7,8-HxCDD	80.4	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.128			13C-1,2,3,6,7,8-HxCDD	80.0	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.133			13C-1,2,3,7,8,9-HxCDD	79.8	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.171			13C-1,2,3,4,6,7,8-HpCDD	102	23 - 140		
OCDD	ND		0.276		13C-OCDD	96.3	17 - 157		
2,3,7,8-TCDF	ND		0.116		13C-2,3,7,8-TCDF	82.2	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0770			13C-1,2,3,7,8-PeCDF	91.8	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0750			13C-2,3,4,7,8-PeCDF	87.8	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.129			13C-1,2,3,4,7,8-HxCDF	94.5	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.127			13C-1,2,3,6,7,8-HxCDF	90.0	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.141			13C-2,3,4,6,7,8-HxCDF	85.0	28 - 136		
1,2,3,7,8,9-HxCDF	ND		0.0290		13C-1,2,3,7,8,9-HxCDF	90.7	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.151			13C-1,2,3,4,6,7,8-HpCDF	105	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.141			13C-1,2,3,4,7,8,9-HpCDF	112	26 - 138		
OCDF	ND	0.236			13C-OCDF	109	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	94.9	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	0.110		0.289						
Total PeCDD	ND	0.109							
Total HxCDD	ND	0.133							
Total HpCDD	ND	0.171							
Total TCDF	ND		0.269						
Total PeCDF	ND		0.0440						
Total HxCDF	ND		0.0290						
Total HpCDF	ND	0.151							

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: B0A0016 Date Extracted: 05-Jan-2020 10:28		Lab Sample: B0A0016-BS1 Date Analyzed: 30-Jan-20 16:00 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	23.0	20.0	115	67 - 158	IS 13C-2,3,7,8-TCDD	101	20 - 175
1,2,3,7,8-PeCDD	104	100	104	70 - 142	13C-1,2,3,7,8-PeCDD	115	21 - 227
1,2,3,4,7,8-HxCDD	114	100	114	70 - 164	13C-1,2,3,4,7,8-HxCDD	84.6	21 - 193
1,2,3,6,7,8-HxCDD	117	100	117	76 - 134	13C-1,2,3,6,7,8-HxCDD	83.5	25 - 163
1,2,3,7,8,9-HxCDD	114	100	114	64 - 162	13C-1,2,3,7,8,9-HxCDD	87.7	21 - 193
1,2,3,4,6,7,8-HpCDD	118	100	118	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	107	26 - 166
OCDD	228	200	114	78 - 144	13C-OCDD	94.5	13 - 199
2,3,7,8-TCDF	26.5	20.0	133	75 - 158	13C-2,3,7,8-TCDF	86.7	22 - 152
1,2,3,7,8-PeCDF	109	100	109	80 - 134	13C-1,2,3,7,8-PeCDF	96.2	21 - 192
2,3,4,7,8-PeCDF	111	100	111	68 - 160	13C-2,3,4,7,8-PeCDF	92.8	13 - 328
1,2,3,4,7,8-HxCDF	121	100	121	72 - 134	13C-1,2,3,4,7,8-HxCDF	109	19 - 202
1,2,3,6,7,8-HxCDF	117	100	117	84 - 130	13C-1,2,3,6,7,8-HxCDF	104	21 - 159
2,3,4,6,7,8-HxCDF	120	100	120	70 - 156	13C-2,3,4,6,7,8-HxCDF	95.0	22 - 176
1,2,3,7,8,9-HxCDF	119	100	119	78 - 130	13C-1,2,3,7,8,9-HxCDF	104	17 - 205
1,2,3,4,6,7,8-HpCDF	114	100	114	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	115	21 - 158
1,2,3,4,7,8,9-HpCDF	116	100	116	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	119	20 - 186
OCDF	247	200	124	63 - 170	13C-OCDF	110	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	101	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-045SC-B-04-06-191010 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903647-01 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 11.0 g	QC Batch: B0A0016 Date Extracted: 05-Jan-2020 10:28
Date Collected: 10-Oct-2019 17:01	% Solids: 91.5	Date Analyzed : 30-Jan-20 22:16 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0799			IS 13C-2,3,7,8-TCDD	99.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0753			13C-1,2,3,7,8-PeCDD	117	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0853			13C-1,2,3,4,7,8-HxCDD	87.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0891			13C-1,2,3,6,7,8-HxCDD	84.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0869			13C-1,2,3,7,8,9-HxCDD	89.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.797			J	13C-1,2,3,4,6,7,8-HpCDD	114	23 - 140	
OCDD	8.79				13C-OCDD	104	17 - 157	
2,3,7,8-TCDF	ND		0.140		13C-2,3,7,8-TCDF	88.2	24 - 169	
1,2,3,7,8-PeCDF	0.140			J	13C-1,2,3,7,8-PeCDF	97.3	24 - 185	
2,3,4,7,8-PeCDF	0.0912			J	13C-2,3,4,7,8-PeCDF	96.3	21 - 178	
1,2,3,4,7,8-HxCDF	0.268			J	13C-1,2,3,4,7,8-HxCDF	108	26 - 152	
1,2,3,6,7,8-HxCDF	0.109			J	13C-1,2,3,6,7,8-HxCDF	100	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0712			13C-2,3,4,6,7,8-HxCDF	95.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0986			13C-1,2,3,7,8,9-HxCDF	98.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.221		13C-1,2,3,4,6,7,8-HpCDF	116	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.120			13C-1,2,3,4,7,8,9-HpCDF	120	26 - 138	
OCDF	0.480			J	13C-OCDF	117	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	104	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0800

TOTALS								
Total TCDD	ND	0.0799						
Total PeCDD	ND	0.0753						
Total HxCDD	ND		0.176					
Total HpCDD	1.69							
Total TCDF	ND		0.140					
Total PeCDF	0.345		0.361					
Total HxCDF	0.507							
Total HpCDF	ND		0.525					

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-067SC-B-00-02-191010 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903647-02 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 18.9 g	QC Batch: B0A0016 Date Extracted: 05-Jan-2020 10:28
Date Collected: 10-Oct-2019 15:48	% Solids: 52.9	Date Analyzed : 01-Feb-20 06:55 Column: ZB-5MS 31-Jan-20 23:44 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	2.41				IS 13C-2,3,7,8-TCDD	84.0	25 - 164	
1,2,3,7,8-PeCDD	4.12				13C-1,2,3,7,8-PeCDD	86.6	25 - 181	
1,2,3,4,7,8-HxCDD	8.95				13C-1,2,3,4,7,8-HxCDD	65.3	32 - 141	
1,2,3,6,7,8-HxCDD	81.1				13C-1,2,3,6,7,8-HxCDD	64.9	28 - 130	
1,2,3,7,8,9-HxCDD	22.8				13C-1,2,3,7,8,9-HxCDD	63.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	6210			D	13C-1,2,3,4,6,7,8-HpCDD	75.5	23 - 140	
OCDD	39800			D	13C-OCDD	48.2	17 - 157	D
2,3,7,8-TCDF	183				13C-2,3,7,8-TCDF	79.6	24 - 169	
1,2,3,7,8-PeCDF	302				13C-1,2,3,7,8-PeCDF	81.8	24 - 185	
2,3,4,7,8-PeCDF	148				13C-2,3,4,7,8-PeCDF	77.4	21 - 178	
1,2,3,4,7,8-HxCDF	468				13C-1,2,3,4,7,8-HxCDF	81.1	26 - 152	
1,2,3,6,7,8-HxCDF	120				13C-1,2,3,6,7,8-HxCDF	74.2	26 - 123	
2,3,4,6,7,8-HxCDF	37.8				13C-2,3,4,6,7,8-HxCDF	65.0	28 - 136	
1,2,3,7,8,9-HxCDF	29.8				13C-1,2,3,7,8,9-HxCDF	75.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	359				13C-1,2,3,4,6,7,8-HpCDF	82.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	91.5				13C-1,2,3,4,7,8,9-HpCDF	85.0	26 - 138	
OCDF	1810				13C-OCDF	66.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 234

TOTALS			
Total TCDD	41.1	46.0	B
Total PeCDD	57.9	72.1	
Total HxCDD	1260		
Total HpCDD	15100		
Total TCDF	810	811	
Total PeCDF	931	932	
Total HxCDF	1070		
Total HpCDF	1850		

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-067SC-B-02-04-191010 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903647-03 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 17.6 g	QC Batch: B0A0016 Date Extracted: 05-Jan-2020 10:28
Date Collected: 10-Oct-2019 15:48	% Solids: 57.8	Date Analyzed : 30-Jan-20 23:50 Column: ZB-5MS 31-Jan-20 15:20 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.105			IS 13C-2,3,7,8-TCDD	104	25 - 164	
1,2,3,7,8-PeCDD	ND		0.130		13C-1,2,3,7,8-PeCDD	123	25 - 181	
1,2,3,4,7,8-HxCDD	ND		0.0668		13C-1,2,3,4,7,8-HxCDD	89.7	32 - 141	
1,2,3,6,7,8-HxCDD	0.267			J	13C-1,2,3,6,7,8-HxCDD	89.8	28 - 130	
1,2,3,7,8,9-HxCDD	0.172			J	13C-1,2,3,7,8,9-HxCDD	93.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	9.78				13C-1,2,3,4,6,7,8-HpCDD	119	23 - 140	
OCDD	108				13C-OCDD	122	17 - 157	
2,3,7,8-TCDF	0.326			J	13C-2,3,7,8-TCDF	92.6	24 - 169	
1,2,3,7,8-PeCDF	ND		0.381		13C-1,2,3,7,8-PeCDF	104	24 - 185	
2,3,4,7,8-PeCDF	ND		0.297		13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	0.808			J	13C-1,2,3,4,7,8-HxCDF	110	26 - 152	
1,2,3,6,7,8-HxCDF	0.357			J	13C-1,2,3,6,7,8-HxCDF	99.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.381		13C-2,3,4,6,7,8-HxCDF	96.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0468		13C-1,2,3,7,8,9-HxCDF	106	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.12			J	13C-1,2,3,4,6,7,8-HpCDF	124	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND		0.161		13C-1,2,3,4,7,8,9-HpCDF	133	26 - 138	
OCDF	2.61			J	13C-OCDF	135	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	104	35 - 197	

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

TEQMinWHO2005Dioxin 0.335

TOTALS			
Total TCDD	0.348	0.480	B
Total PeCDD	0.506	1.15	
Total HxCDD	2.94	3.18	
Total HpCDD	20.9		
Total TCDF	5.76	5.96	
Total PeCDF	6.51	8.02	
Total HxCDF	4.55	5.37	
Total HpCDF	2.94	3.10	

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-067SC-B-04-06-191010 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903647-04 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 15.6 g	QC Batch: B0A0016 Date Extracted: 05-Jan-2020 10:28
Date Collected: 10-Oct-2019 15:48	% Solids: 65.1	Date Analyzed : 31-Jan-20 00:37 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0723			IS 13C-2,3,7,8-TCDD	100	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0737			13C-1,2,3,7,8-PeCDD	117	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0822			13C-1,2,3,4,7,8-HxCDD	91.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0847			13C-1,2,3,6,7,8-HxCDD	87.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0874			13C-1,2,3,7,8,9-HxCDD	88.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.433			J	13C-1,2,3,4,6,7,8-HpCDD	115	23 - 140	
OCDD	2.32			J	13C-OCDD	117	17 - 157	
2,3,7,8-TCDF	ND	0.0798			13C-2,3,7,8-TCDF	91.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0519			13C-1,2,3,7,8-PeCDF	101	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0489			13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0602			13C-1,2,3,4,7,8-HxCDF	106	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0582			13C-1,2,3,6,7,8-HxCDF	99.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0644			13C-2,3,4,6,7,8-HxCDF	97.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0864			13C-1,2,3,7,8,9-HxCDF	101	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0942			13C-1,2,3,4,6,7,8-HpCDF	120	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0877			13C-1,2,3,4,7,8,9-HpCDF	128	26 - 138	
OCDF	ND		0.143		13C-OCDF	130	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

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

TEQMinWHO2005Dioxin 0.00503

TOTALS			
Total TCDD	ND	0.0723	
Total PeCDD	ND	0.0737	
Total HxCDD	ND		0.125
Total HpCDD	0.926		
Total TCDF	ND		0.150
Total PeCDF	ND	0.0519	
Total HxCDF	ND	0.0864	
Total HpCDF	ND	0.0942	

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

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

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-067SC-B-04-06-191010		QC Batch: B0A0016		Lab Sample: B0A0016-DUP1					
Source LabNumber: 1903647-04		Date Extracted: 05-Jan-2020 10:28		Date Analyzed: 31-Jan-20 05:27 Column: ZB-5MS					
Matrix: Solid									
Sample Size: 15.5 g									
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0911			IS 13C-2,3,7,8-TCDD	97.0	25 - 164		
1,2,3,7,8-PeCDD	0.0923			J	13C-1,2,3,7,8-PeCDD	112	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.133			13C-1,2,3,4,7,8-HxCDD	82.9	32 - 141		
1,2,3,6,7,8-HxCDD	0.201			J	13C-1,2,3,6,7,8-HxCDD	82.2	28 - 130		
1,2,3,7,8,9-HxCDD	ND		0.226		13C-1,2,3,7,8,9-HxCDD	83.6	32 - 141		
1,2,3,4,6,7,8-HpCDD	3.28				13C-1,2,3,4,6,7,8-HpCDD	111	23 - 140		
OCDD	23.9				13C-OCDD	101	17 - 157		
2,3,7,8-TCDF	ND		0.233		13C-2,3,7,8-TCDF	90.0	24 - 169		
1,2,3,7,8-PeCDF	ND		0.117		13C-1,2,3,7,8-PeCDF	96.7	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0714			13C-2,3,4,7,8-PeCDF	95.6	21 - 178		
1,2,3,4,7,8-HxCDF	0.234			J	13C-1,2,3,4,7,8-HxCDF	106	26 - 152		
1,2,3,6,7,8-HxCDF	ND		0.115		13C-1,2,3,6,7,8-HxCDF	99.3	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0895			13C-2,3,4,6,7,8-HxCDF	92.8	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.116			13C-1,2,3,7,8,9-HxCDF	96.3	29 - 147		
1,2,3,4,6,7,8-HpCDF	0.462			J	13C-1,2,3,4,6,7,8-HpCDF	115	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.109			13C-1,2,3,4,7,8,9-HpCDF	119	26 - 138		
OCDF	0.582			J	13C-OCDF	112	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	98.6	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.181		
TOTALS									
Total TCDD	0.968		1.35	B					
Total PeCDD	0.305		1.45						
Total HxCDD	3.69		3.92						
Total HpCDD	7.40								
Total TCDF	1.80		2.39						
Total PeCDF	0.328		0.939						
Total HxCDF	0.234		0.704						
Total HpCDF	0.462		0.660						

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.

weight.

The sample size is reported in wet

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-067SC-B-04-06-191010					Duplicate Lab Sample: B0A0016-DUP1				
Source LabNumber: 1903647-04									
Matrix: Solid									
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	ND	ND	NA	25	IS 13C-2,3,7,8-TCDD	97.0	100	25 - 164	
1,2,3,7,8-PeCDD	0.0923	ND	#	25	13C-1,2,3,7,8-PeCDD	112	117	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	82.9	91.4	32 - 141	
1,2,3,6,7,8-HxCDD	0.201	ND	#	25	13C-1,2,3,6,7,8-HxCDD	82.2	87.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDD	83.6	88.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.28	0.433	153	25	13C-1,2,3,4,6,7,8-HpCDD	111	115	23 - 140	
OCDD	23.9	2.32	165	25	13C-OCDD	101	117	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	25	13C-2,3,7,8-TCDF	90.0	91.6	24 - 169	
1,2,3,7,8-PeCDF	ND	ND	NA	25	13C-1,2,3,7,8-PeCDF	96.7	101	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	25	13C-2,3,4,7,8-PeCDF	95.6	101	21 - 178	
1,2,3,4,7,8-HxCDF	0.234	ND	#	25	13C-1,2,3,4,7,8-HxCDF	106	106	26 - 152	
1,2,3,6,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDF	99.3	99.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	ND	NA	25	13C-2,3,4,6,7,8-HxCDF	92.8	97.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDF	96.3	101	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.462	ND	#	25	13C-1,2,3,4,6,7,8-HpCDF	115	120	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25	13C-1,2,3,4,7,8,9-HpCDF	119	128	26 - 138	
OCDF	0.582	ND	#	25	13C-OCDF	112	130	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.6	102	35 - 197	

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

Sample ID: PDI-067SC-B-06-08-191010 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903647-05 Date Received: 15-Oct-2019 8:51
Project: Gasco PDI	Sample Size: 12.2 g	QC Batch: B0A0016 Date Extracted: 05-Jan-2020 10:28
Date Collected: 10-Oct-2019 15:48	% Solids: 83.1	Date Analyzed : 31-Jan-20 06:14 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.116		IS 13C-2,3,7,8-TCDD	104	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0999			13C-1,2,3,7,8-PeCDD	121	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0799			13C-1,2,3,4,7,8-HxCDD	87.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0820			13C-1,2,3,6,7,8-HxCDD	86.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0846			13C-1,2,3,7,8,9-HxCDD	90.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.53				13C-1,2,3,4,6,7,8-HpCDD	120	23 - 140	
OCDD	18.6				13C-OCDD	120	17 - 157	
2,3,7,8-TCDF	ND	0.0981			13C-2,3,7,8-TCDF	90.6	24 - 169	
1,2,3,7,8-PeCDF	0.151			J	13C-1,2,3,7,8-PeCDF	100	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0749		13C-2,3,4,7,8-PeCDF	98.6	21 - 178	
1,2,3,4,7,8-HxCDF	0.351			J	13C-1,2,3,4,7,8-HxCDF	109	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.0956		13C-1,2,3,6,7,8-HxCDF	100	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0710			13C-2,3,4,6,7,8-HxCDF	96.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0914			13C-1,2,3,7,8,9-HxCDF	105	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.594			J	13C-1,2,3,4,6,7,8-HpCDF	119	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.225			J	13C-1,2,3,4,7,8,9-HpCDF	131	26 - 138	
OCDF	2.85			J	13C-OCDF	132	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	109	35 - 197	

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

TEQMinWHO2005Dioxin 0.0796

TOTALS		
Total TCDD	ND	0.116
Total PeCDD	0.0785	0.133
Total HxCDD	0.664	
Total HpCDD	5.46	
Total TCDF	0.123	
Total PeCDF	0.151	0.371
Total HxCDF	0.457	0.553
Total HpCDF	1.45	

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

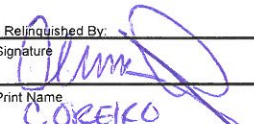

POC: # Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

1903647
3.6°C
3.8°C
WWS 10/17/19

COC ID: VIST1-20191010-175158
Sample Custodian: CO, SN, BJ, DL
Lab: VISTA - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-045SC-B-04-06-191010	N	SE	10/10/2019	17:01	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
002	PDI-067SC-B-00-02-191010	N	SE	10/10/2019	15:48	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
003	PDI-067SC-B-02-04-191010	N	SE	10/10/2019	15:48	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
004	PDI-067SC-B-04-06-191010	N	SE	10/10/2019	15:48	1	<input checked="" type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
005	PDI-067SC-B-06-08-191010	N	SE	10/10/2019	15:48	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: C. OREIKO	Print Name: Hayden Cann	Print Name:	Print Name:	Print Name:	Print Name:
Company: HQ	Company: VAL	Company:	Company:	Company:	Company:
Date/Time: 10/14/19 07:55	Date/Time: 10/15/19 08:51	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903647 TAT Std

Samples Arrival:	Date/Time: 10/15/19 0851	Initials: MWS	Location: WR-2
			Shelf/Rack: N/A
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> GSO	<input type="checkbox"/> DHL
		<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: 3.6 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: IR-3
Temp °C: 3.6 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>4 of 4</u> Trk # <u>7767 1463 8021</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
			<input checked="" type="checkbox"/> Return
		<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present? <u>COC present in other container</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Holding Time Acceptable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Logged In:	Date/Time: 10/16/19 0936	Initials: MWS	Location: WF-2
			Shelf/Rack: D-1
COC Anomaly/Sample Acceptance Form completed?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 1903647

LabNumber	CoC Sample ID	Label ID matches COCID	Label ID doesn't match COCID	SampleAlias	Sampled	Label Sampled matches	Sampled doesn't match	Container	Container Correct	BaseMatrix	Sample Comments
4	1903647-01 A PDI-045SC-B-04-06-191010	<input checked="" type="checkbox"/>		001	10-Oct-19 17:01	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903647-02 A PDI-067SC-B-00-02-191010	<input checked="" type="checkbox"/>		002	10-Oct-19 15:48	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903647-03 A PDI-067SC-B-02-04-191010	<input checked="" type="checkbox"/>		003	10-Oct-19 15:48	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
4	1903647-04 A PDI-067SC-B-04-06-191010	<input checked="" type="checkbox"/>		004	10-Oct-19 15:48	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	Dup
4	1903647-05 A PDI-067SC-B-06-08-191010	<input checked="" type="checkbox"/>		005	10-Oct-19 15:48	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	

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

Comments:

"4" = cooler 4

Verified by/Date: HDG 10/17/19

EXTRACTION INFORMATION

Process Sheet

Workorder: 1903647

Prep Expiration: 2020-10-09
Client: Anchor QEA, LLC

Workorder Due: 03-Jan-20 00:00

TAT: 80

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

Prep Batch: BUA 0016

Prep Data Entered: RR 01-09-20
Date and Initials

Initial Sequence: SOA0068

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903647-01	<input checked="" type="checkbox"/>	PDI-045SC-B-04-06-191010	15-Oct-19 08:51	WF-2 D-1	
1903647-02	<input checked="" type="checkbox"/>	PDI-067SC-B-00-02-191010	15-Oct-19 08:51	WF-2 D-1	
1903647-03	<input checked="" type="checkbox"/>	PDI-067SC-B-02-04-191010	15-Oct-19 08:51	WF-2 D-1	
1903647-04	<input checked="" type="checkbox"/>	PDI-067SC-B-04-06-191010	15-Oct-19 08:51	WF-2 D-1	Dup
1903647-05	<input checked="" type="checkbox"/>	PDI-067SC-B-06-08-191010	15-Oct-19 08:51	WF-2 D-1	

WO Comments: ~~Percent Solids (dry weight)~~

Dioxin - 10g (dry weight)

~~Percent Solids (dry weight)~~

Pre-Prep Check Out: AZ 12/31/19

Prep Check Out: DF 01/05/20

Prep Reconciled Initials/Date: AZ 12/31/19

Pre-Prep Check In: AZ 12/31/19

Prep Check In: DF 01/05/20

Spike Reconciled Initials/Date: DF 01/05/20

VialBoxID: IKEA

PREPARATION BENCH SHEET

Matrix: Solid

B0A0016

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 05-Jan-20 10:28

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"/>	B0A0016-BLK1	<u>N/A</u>	<u>(10.00)</u>	<u>DF</u> <u>11/05/19</u>	<u>AO</u> <u>DF</u> <u>01/06/20</u>	<u>N/A</u> <u>01/07/20</u>	<u>AO</u> <u>01/07/20</u>	<u>AO</u> <u>01/07/20</u>	<u>AO</u> <u>01/07/20</u>	<u>SUB</u> <u>01/07/20</u>
<input type="checkbox"/>	B0A0016-BS1	<u>↓</u>	<u>(10.00)</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	B0A0016-DUP1 1903647-04	<u>15.36</u>	<u>15.46</u>	<u>↓</u>	<u>↓</u>	<u>N/A</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	B0A0016-DUP2 1904210-09	<u>10.89</u>	<u>11.00</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1903647-01	<u>10.93</u>	<u>10.99</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1903647-02	<u>18.09</u>	<u>18.90</u>	<u>↓</u>	<u>↓</u>	<u>01/07/20</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1903647-03	<u>17.31</u>	<u>17.58</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1903647-04	<u>15.36</u>	<u>15.56</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1903647-05	<u>12.04</u>	<u>12.18</u>	<u>↓</u>	<u>↓</u>	<u>N/A</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1903649-01	<u>14.31</u>	<u>14.36</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>01/07/20</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1904210-03	<u>11.74</u>	<u>11.96</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1904210-04	<u>11.85</u>	<u>11.95</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1904210-05	<u>12.77</u>	<u>12.97</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1904210-06	<u>12.62</u>	<u>12.75</u>	<u>↓</u>	<u>↓</u>	<u>01/07/20</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
<input type="checkbox"/>	1904210-07	<u>15.10</u>	<u>15.50</u>	<u>↓</u>	<u>↓</u>	<u>N/A</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>

IS Name <u>V1</u>	NS Name <u>V5</u>	CRS Name <u>VS</u>	RS Name <u>RS</u>	Cycle Time	APP: SEFUN <u>SOX</u> SDS	Check Out: <u>DF 01/05/20</u>
PCDD/F <u>1 ac 1902, 10 ml</u>	PCDD/F <u>10 E 1913, 10 ml</u>	PCDD/F <u>19 E 1602, 10 ml</u>	PCDD/F <u>19 E 1603, 10 ml</u>	Start Date/Time <u>01/05/19</u>	SOLV: <u>Toluene</u>	Check In: <u>DF 01/05/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>01/06/19</u>	Other <u>N/A</u>	Balance ID: <u>HRMS-8</u>
PAH	PAH	PAH	PAH	<u>13:58</u>	Final Volume(s) <u>20 mL</u>	
				<u>01/06/19</u>	<u>0.14</u>	

Comments:

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

PREPARATION BENCH SHEET

Matrix: Solid

B0A0016

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 05-Jan-20 10:28

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"/>	1904210-08	13.51	13.69	DF Wm 2/05/19	AD DE 01/06/20	N/A	AD 01/07/20	AD 01/07/20	AD 01/07/20	AD 01/07/20
<input type="checkbox"/>	1904210-09	10.89	10.92	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904210-10	10.84	10.88	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	1904210-11	10.86	10.91	↓	↓	↓	↓	↓	↓	↓

* AD 01/07/20

IS Name <u>V1</u>	NS Name <u>V15</u>	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX SDS	Check Out: <u>DF 01/05/20</u>
PCDD/F <u>19C1902, 10mL</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>19F1603, 10mL</u>	Start Date/Time	SOLV: <u>Toluene</u>	Chemist/Date: <u>DF 01/05/20</u>
PCB	PCB	PCB	PCB	<u>01/05/19</u> 1358	Other <u>NA</u>	Check In: <u>DF 01/05/20</u>
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) <u>20mL</u> <u>C14</u>	Balance ID: <u>HRMS-8</u>
				<u>01/06/19</u> 015		

Comments:

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

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9L0076

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

Inst **HRMS-8**

Date/Time IN: **12/31/19** Date/Time OUT: **01/02/20**
1038 **1443**

Particle Size	SampleID	SampType	Initial and Date: AZ 12/31/19		Date/Time OUT: 01/02/20		Dry Sample Weight (g)	%Solids RawVal	Date/Time IN: AZ 12/31/19				Date/Time OUT: AZ 12/31/19
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Visual Inspection			pH Before	pH After	Acid Added	Sample Homogenized*	
	1903647-01	Sample	1.27	7.48	6.95			mud					Y
	1903647-02	Sample	1.29	10.34	6.08			mud					Y
	1903647-03	Sample	1.29	7.40	4.82			mud					Y
	1903647-04	Sample	1.30	12.42	8.54			mud					Y
	1903647-05	Sample	1.30	7.03	6.06			mud					Y

*Sample homogenized in sample container unless otherwise noted.

Batch: B0A0016

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903647-01	10.99 ✓	91.46538	10.0520	20 ✓	05-Jan-20 10:28 ✓	DFO			Sediment	1613 Full List
1903647-02	18.9 ✓	52.92818	10.0034	20	05-Jan-20 10:28	DFO			Sediment	1613 Full List
1903647-03	17.58 ✓	57.77414	10.1567	20	05-Jan-20 10:28	DFO			Sediment	1613 Full List
1903647-04	15.56 ✓	65.10791	10.1308	20	05-Jan-20 10:28	DFO			Sediment	1613 Full List
1903647-05	12.18 ✓	83.07155	10.1181	20	05-Jan-20 10:28	DFO			Sediment	1613 Full List
1903649-01	14.36 ✓	69.88267	10.0352	20	05-Jan-20 10:28	DFO			Sediment	1613 Full List
1904210-03	11.96 ✓	85.14285	10.1831	20	05-Jan-20 10:28	DFO			Soil	1613 Full List
1904210-04	11.95 ✓	84.40749	10.0867	20	05-Jan-20 10:28	DFO			Soil	1613 Full List
1904210-05	12.97 ✓	78.32167	10.1583	20	05-Jan-20 10:28	DFO			Soil	1613 Full List
1904210-06	12.75 ✓	79.22913	10.1017	20	05-Jan-20 10:28	DFO			Soil	1613 Full List
1904210-07	13.5 ✓	76.3116	10.3021	20	05-Jan-20 10:28	DFO			Soil	1613 Full List
1904210-08	13.69 ✓	74.01478	10.1326	20	05-Jan-20 10:28	DFO			Soil	1613 Full List
1904210-09	10.92 ✓	91.79105	10.0236	20	05-Jan-20 10:28	DFO			Soil	1613 Full List
1904210-10	10.88 ✓	92.2619	10.0381	20	05-Jan-20 10:28	DFO			Soil	1613 Full List
1904210-11	10.91 ✓	92.06963	10.0448	20	05-Jan-20 10:28	DFO			Soil	1613 Full List
B0A0016-BLK1	10			20	05-Jan-20 10:28	DFO				QC
B0A0016-BS1	10			20	05-Jan-20 10:28	DFO	18F1913 ✓	10 ✓		QC
B0A0016-DUP1	15.46 ✓			20	05-Jan-20 10:28	DFO				QC
B0A0016-DUP2	11 ✓			20 ✓	05-Jan-20 10:28 ✓	DFO				QC

All bolded data on report verified against written benchsheet by (initial/date) RR / 01-09-20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-6.qld

Last Altered: Monday, February 03, 2020 15:25:22 Pacific Standard Time
Printed: Monday, February 03, 2020 15:26:39 Pacific Standard Time

GPB 02/03/2020

BT 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_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRT	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.924	10.000	25.721		1.001				0.241	
2	2 1,2,3,7,8-PeCDD			NO	0.912	10.000	30.642		1.001				0.109	
3	3 1,2,3,4,7,8-HxCDD			NO	0.870	10.000	33.976		1.000				0.124	
4	4 1,2,3,6,7,8-HxCDD			NO	0.784	10.000	34.072		1.000				0.128	
5	5 1,2,3,7,8,9-HxCDD			NO	0.798	10.000	34.383		1.001				0.133	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.737	10.000	37.896		1.000				0.171	
7	7 OCDD	6.11e2	0.68	YES	0.800	10.000	40.889	40.89	1.000	1.000	0.32141		0.208	0.276
8	8 2,3,7,8-TCDF	5.36e2	1.70	YES	0.588	10.000	24.832	24.76	1.001	0.998	0.17027		0.122	0.116
9	9 1,2,3,7,8-PeCDF			NO	0.826	10.000	29.376		1.001				0.0770	
10	10 2,3,4,7,8-PeCDF			NO	0.850	10.000	30.346		1.001				0.0750	
11	11 1,2,3,4,7,8-HxCDF			NO	0.787	10.000	33.103		1.000				0.129	
12	12 1,2,3,6,7,8-HxCDF			NO	0.720	10.000	33.241		1.000				0.127	
13	13 2,3,4,6,7,8-HxCDF			NO	0.766	10.000	33.840		1.001				0.141	
14	14 1,2,3,7,8,9-HxCDF	9.13e1	0.62	YES	0.709	10.000	34.711	34.80	1.000	1.002	0.04218		0.0978	0.0293
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.732	10.000	36.494		1.001				0.151	
16	16 1,2,3,4,7,8,9-HpCDF			NO	0.816	10.000	38.482		1.000				0.141	
17	17 OCDF			NO	0.639	10.000	41.081		1.000				0.236	
18	18 13C-2,3,7,8-TCDD	8.01e5	0.79	NO	1.12	10.000	25.691	25.69	1.026	1.026	179.81	89.9	0.305	
19	19 13C-1,2,3,7,8-PeCDD	6.83e5	0.63	NO	0.841	10.000	30.432	30.62	1.215	1.223	203.47	102	0.339	
20	20 13C-1,2,3,4,7,8-HxCDD	6.19e5	1.26	NO	0.938	10.000	33.966	33.97	1.014	1.014	160.75	80.4	0.325	
21	21 13C-1,2,3,6,7,8-HxCDD	7.00e5	1.25	NO	1.07	10.000	34.066	34.07	1.017	1.017	160.04	80.0	0.286	
22	22 13C-1,2,3,7,8,9-HxCDD	6.76e5	1.25	NO	1.03	10.000	34.368	34.35	1.026	1.025	159.69	79.8	0.296	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.94e5	1.05	NO	0.710	10.000	37.919	37.88	1.132	1.131	203.59	102	0.649	
24	24 13C-OCDD	9.51e5	0.88	NO	0.601	10.000	40.799	40.89	1.218	1.221	385.19	96.3	0.407	
25	25 13C-2,3,7,8-TCDF	1.03e6	0.78	NO	1.04	10.000	24.872	24.81	0.993	0.990	164.32	82.2	0.417	
26	26 13C-1,2,3,7,8-PeCDF	1.02e6	1.61	NO	0.917	10.000	29.205	29.35	1.166	1.172	183.59	91.8	0.504	
27	27 13C-2,3,4,7,8-PeCDF	9.63e5	1.55	NO	0.903	10.000	30.157	30.32	1.204	1.210	175.62	87.8	0.512	
28	28 13C-1,2,3,4,7,8-HxCDF	6.69e5	0.51	NO	0.861	10.000	33.095	33.10	0.988	0.988	189.02	94.5	0.653	
29	29 13C-1,2,3,6,7,8-HxCDF	7.74e5	0.52	NO	1.05	10.000	33.196	33.23	0.991	0.992	180.03	90.0	0.537	
30	30 13C-2,3,4,6,7,8-HxCDF	6.60e5	0.50	NO	0.946	10.000	33.802	33.81	1.009	1.009	169.91	85.0	0.595	
31	31 13C-1,2,3,7,8,9-HxCDF	6.07e5	0.53	NO	0.816	10.000	34.703	34.71	1.036	1.036	181.31	90.7	0.690	

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-6.qld

Last Altered: Monday, February 03, 2020 15:25:22 Pacific Standard Time

Printed: Monday, February 03, 2020 15:26:39 Pacific Standard Time

Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	EL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	5.07e5	0.44	NO	0.589	10.000	36.445	36.46	1.088	1.088	209.37	105	0.765	
33	13C-1,2,3,4,7,8,9-HpCDF	4.12e5	0.43	NO	0.448	10.000	38.455	38.48	1.148	1.149	223.65	112	1.01	
34	13C-OCDF	1.05e6	0.86	NO	0.586	10.000	41.034	41.08	1.225	1.226	435.48	109	0.436	
35	37Cl-2,3,7,8-TCDD	3.29e5			1.09	10.000	25.723	25.70	1.027	1.026	75.911	94.9	0.146	
36	13C-1,2,3,4-TCDD	7.98e5	0.80	NO	1.00	10.000	25.080	25.05	1.000	1.000	200.00	100	0.341	
37	13C-1,2,3,4-TCDF	1.22e6	0.78	NO	1.00	10.000	23.420	23.39	1.000	1.000	200.00	100	0.432	
38	13C-1,2,3,4,6,9-HxCDF	8.22e5	0.52	NO	1.00	10.000	33.520	33.50	1.000	1.000	200.00	100	0.563	
39	Total Tetra-Dioxins				0.824	10.000	24.620		0.000		0.10954		0.241	0.289
40	Total Penta-Dioxins				0.912	10.000	29.960		0.000				0.0613	
41	Total Hexa-Dioxins				0.784	10.000	33.635		0.000				0.0695	
42	Total Hepta-Dioxins				0.737	10.000	37.640		0.000				0.0873	
43	Total Tetra-Furans				0.588	10.000	23.610		0.000		0.00000		0.122	0.269
44	1st Func. Penta-Furans				0.826	10.000	27.090		0.000				0.0576	
45	Total Penta-Furans				0.826	10.000	29.275		0.000		0.00000		0.0348	0.0436
46	Total Hexa-Furans				0.766	10.000	33.555		0.000		0.00000		0.0726	0.0293
47	Total Hepta-Furans				0.732	10.000	37.835		0.000				0.0768	

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-6.qld

Last Altered: Monday, February 03, 2020 15:25:22 Pacific Standard Time
 Printed: Monday, February 03, 2020 15:26:39 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
 Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-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	Total Tetra-Dioxins	21.90	1.553e4	1.107e4	2.317e2	1.651e2	1.40	YES	0.000e0	0.00000	0.088559	0.241
2	Total Tetra-Dioxins	24.49	8.615e3	1.297e4	1.298e2	2.420e2	0.54	YES	0.000e0	0.00000	0.090448	0.241
3	Total Tetra-Dioxins	25.27	8.192e3	1.270e4	1.468e2	2.146e2	0.68	NO	3.614e2	0.10954	0.10954	0.241

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	24.27	1.748e4	5.115e3	2.608e2	8.866e1	2.94	YES	0.000e0	0.00000	0.051600	0.122
2	2,3,7,8-TCDF	24.76	1.680e4	9.609e3	3.376e2	1.985e2	1.70	YES	5.361e2	0.00000	0.11553	0.122
3	Total Tetra-Furans	25.60	4.772e3	1.398e4	1.351e2	2.750e2	0.49	YES	0.000e0	0.00000	0.10212	0.273

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-6.qld

Last Altered: Monday, February 03, 2020 15:25:22 Pacific Standard Time
Printed: Monday, February 03, 2020 15:26:39 Pacific Standard Time

Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.03	2.157e3	3.136e3	5.410e1	7.091e1	0.76	YES	0.000e0	0.00000	0.021704	0.0348
2	Total Penta-Furans	30.03	3.360e3	4.796e3	5.458e1	8.622e1	0.63	YES	0.000e0	0.00000	0.021896	0.0348

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	34.80	2.705e3	5.156e3	3.489e1	5.640e1	0.62	YES	9.129e1	0.00000	0.029289	0.0978

Hepta-Furans

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

Dataset: Untitled

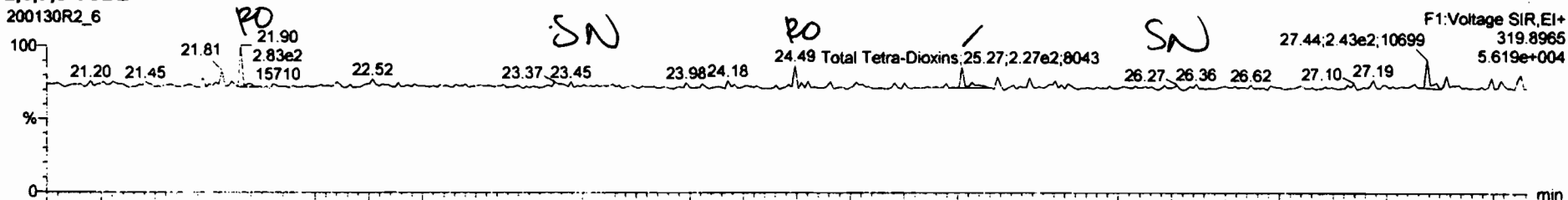
Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

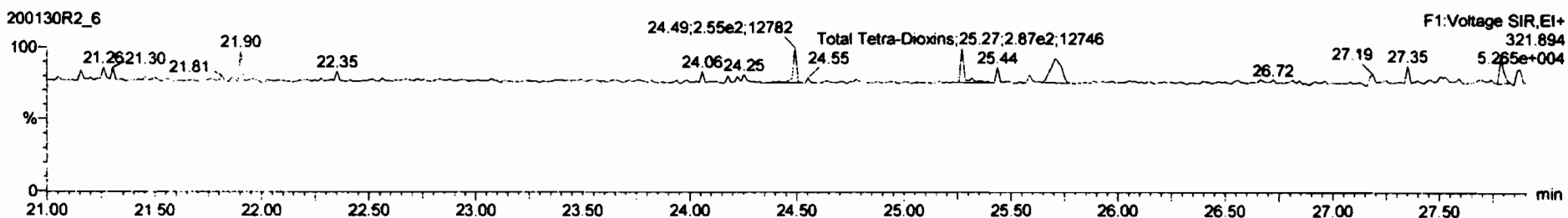
Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200130R2_6

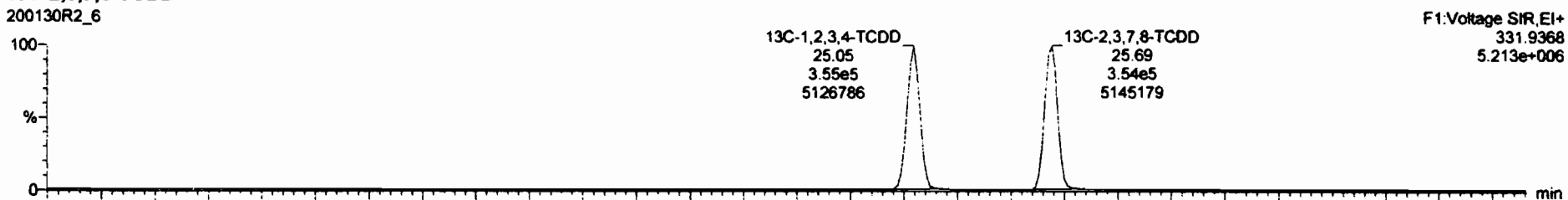


200130R2_6

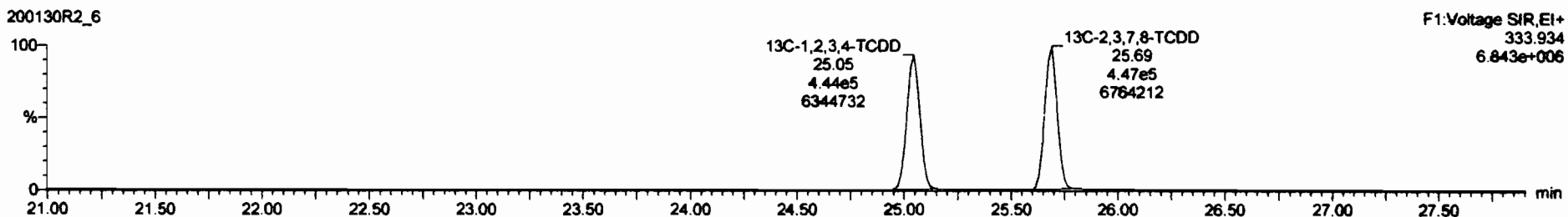


13C-2,3,7,8-TCDD

200130R2_6

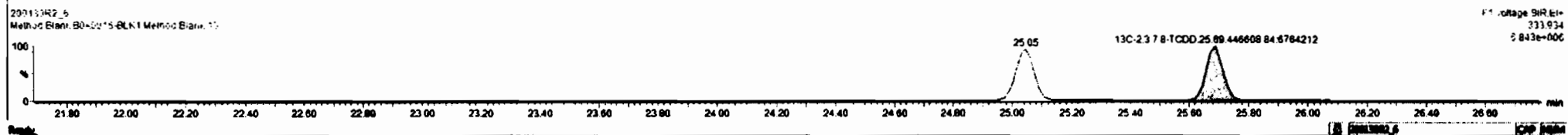
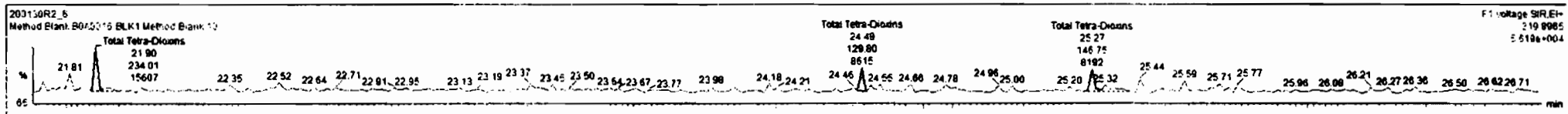


200130R2_6



Step	Step	Run	Time	Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit
1	Total Tetra-Chlorins			0.8114	10.000					0.0613	

Step	Run	Time	Conc	Unit	Conc	Unit	Conc	Unit
1	Total Tetra-Chlorins	21.90	2.340e2	1.051e2	1.42	YES	0.000000	0.000000
2	Total Tetra-Chlorins	24.48	1.299e2	2.420e2	0.54	YES	0.090448	0.000000
3	Total Tetra-Chlorins	25.27	1.466e2	2.146e2	0.88	NO	0.10954	0.10954



Dataset: Untitled

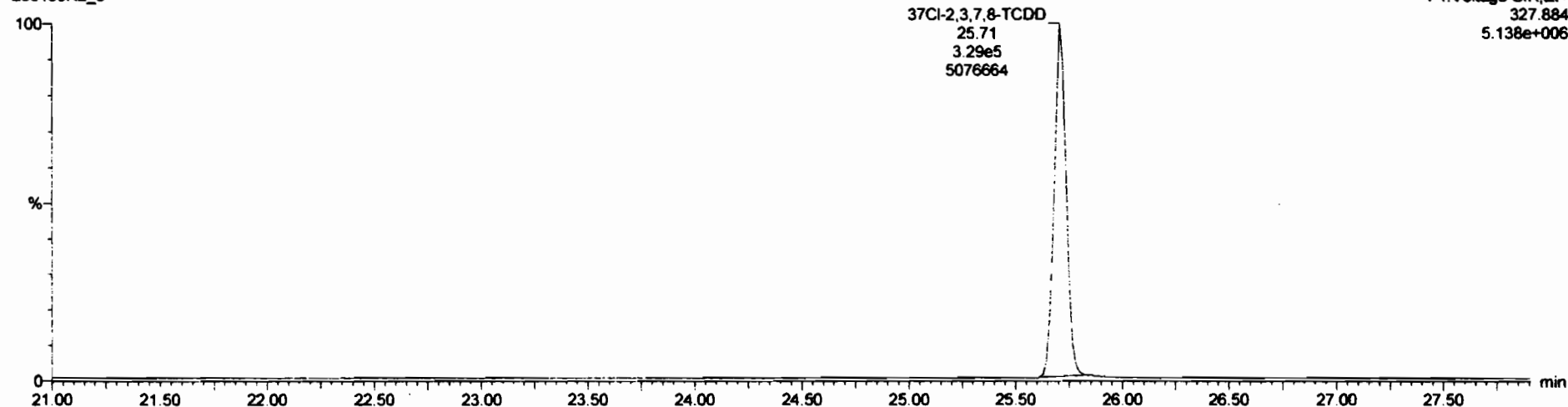
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Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank

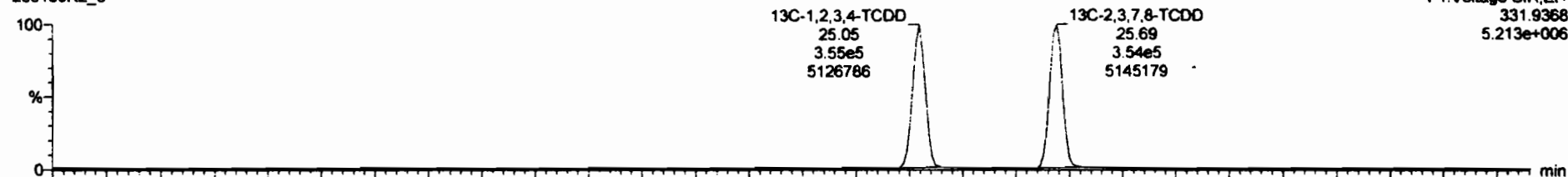
37Cl-2,3,7,8-TCDD

200130R2_6

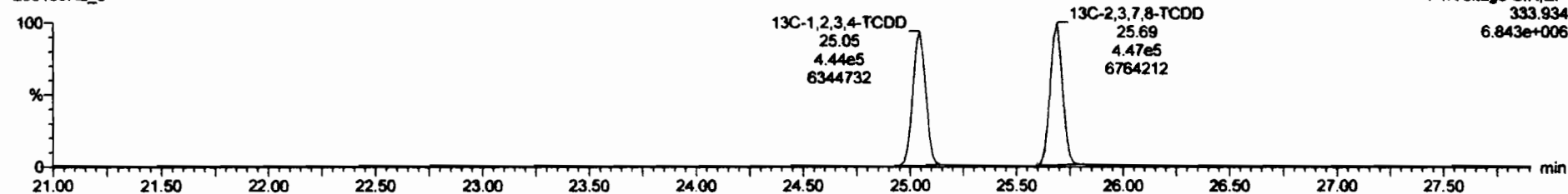


13C-1,2,3,4-TCDD

200130R2_6



200130R2_6



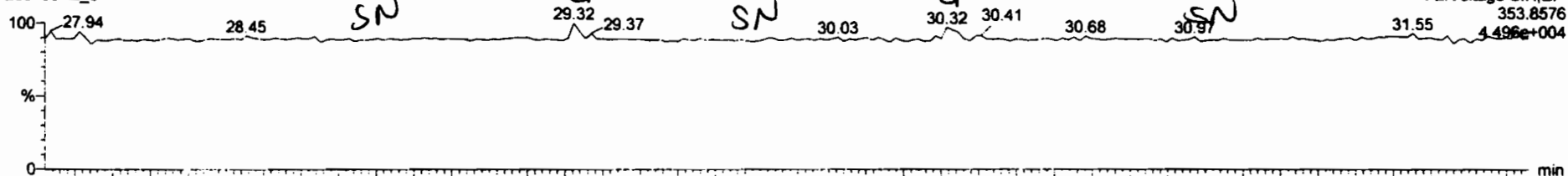
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Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time
Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

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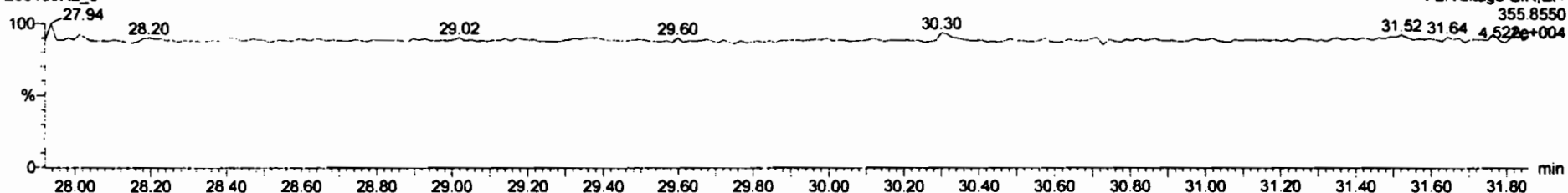
1,2,3,7,8-PeCDD

200130R2_6



F2: Voltage SIR, EI+
353.8576
4.496e+004

200130R2_6



F2: Voltage SIR, EI+
355.8550
4.522e+004

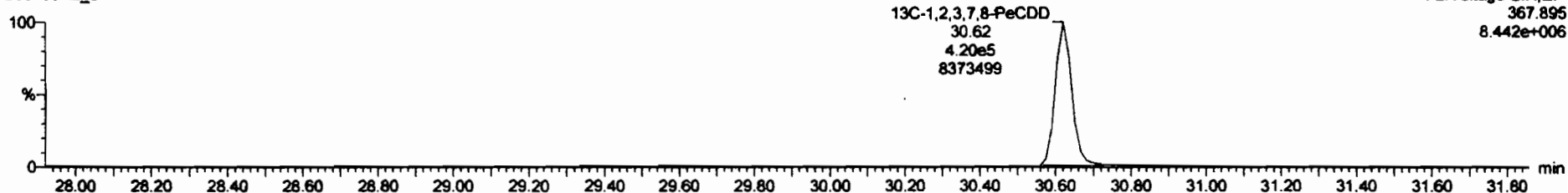
13C-1,2,3,7,8-PeCDD

200130R2_6



F2: Voltage SIR, EI+
365.8978
5.381e+006

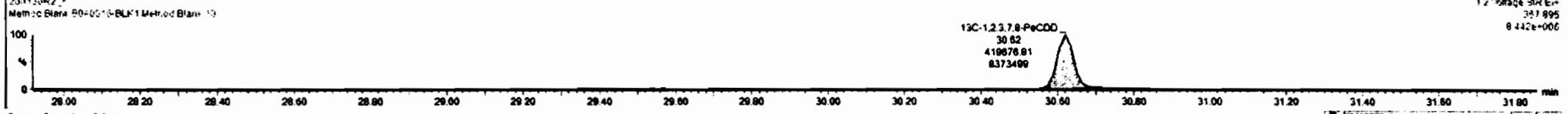
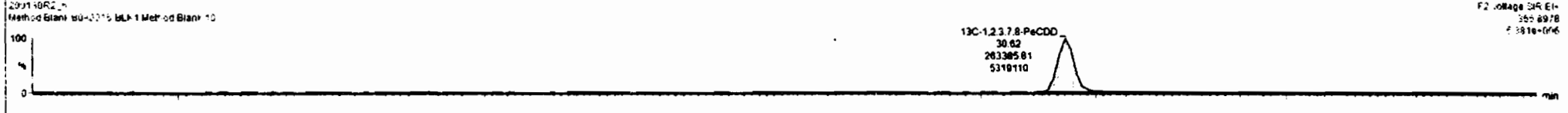
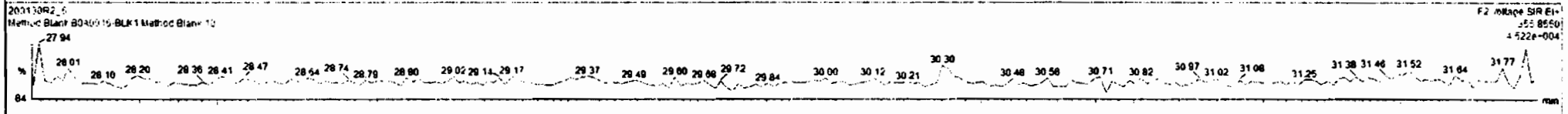
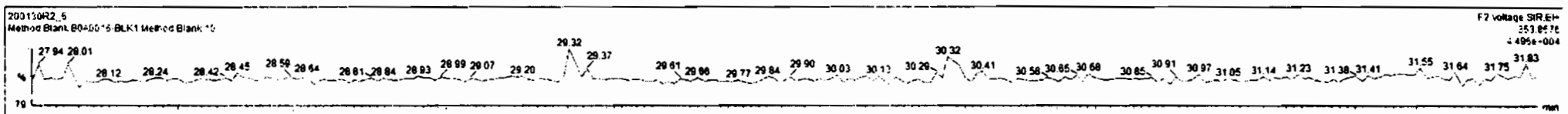
200130R2_6



F2: Voltage SIR, EI+
367.895
8.442e+006

Time	Area	Height	W	h	Area%	Height%	Area	Height	Area%	Height%	
28	Total Area-Column				0.0248	10.000			0.110	0.241	0.280

Time	Area	Height	W	h	Area%	Height%	Area	Height	Area%	Height%
1										



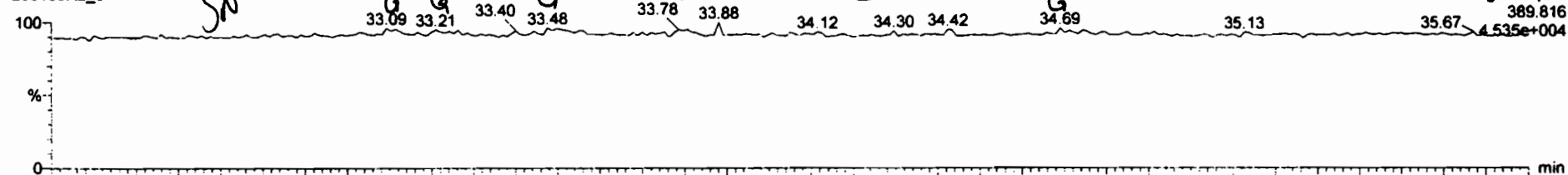
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Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

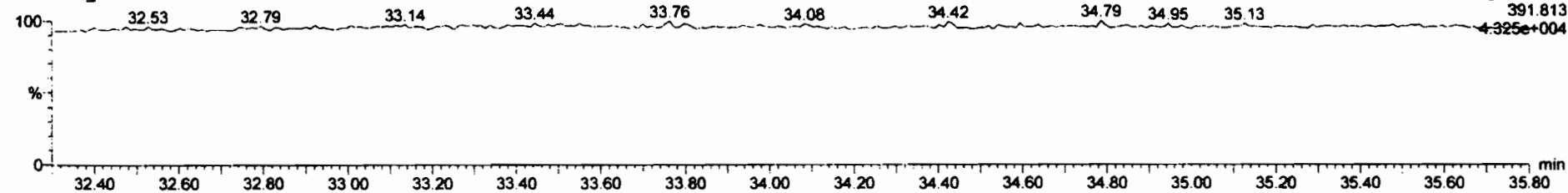
Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank

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

200130R2_6

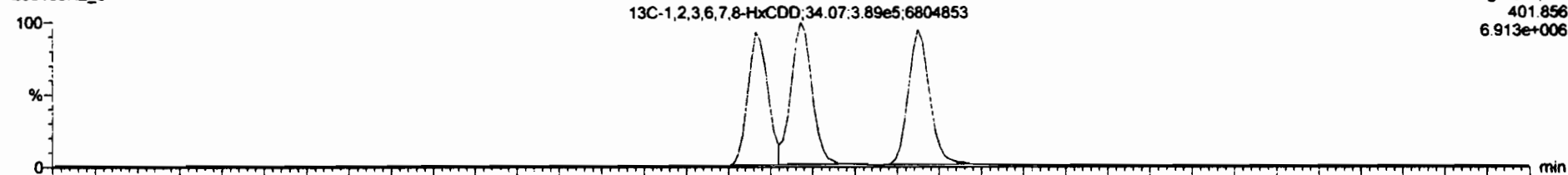


200130R2_6

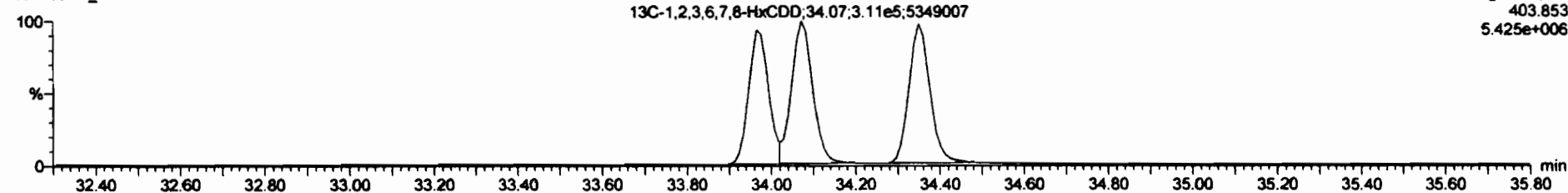


13C-1,2,3,4,7,8-HxCDD

200130R2_6

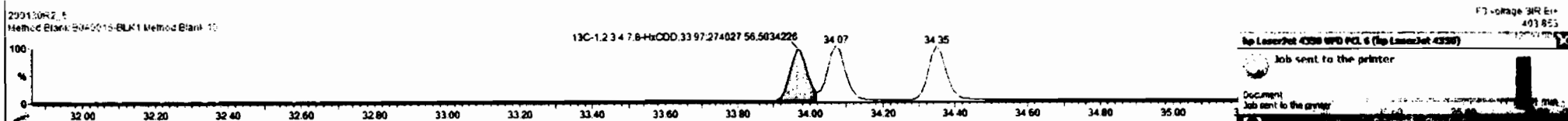
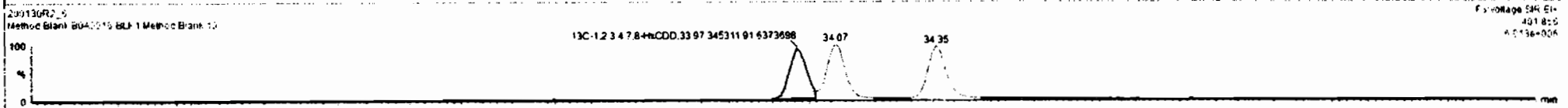
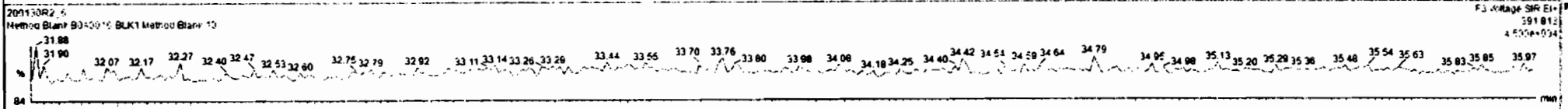
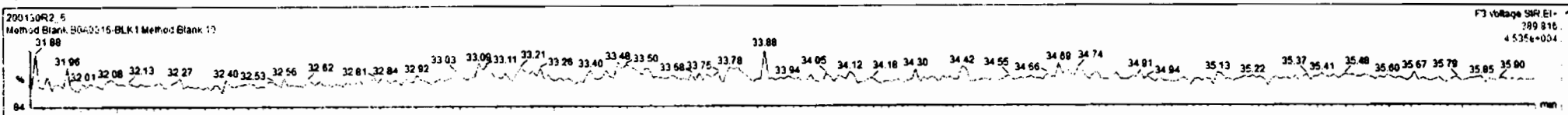


200130R2_6



Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
Total Tetra-Oxime	0.8248	10.000					0.110			0.241	0.280	
Total Penta-Oxime	0.9116	10.000								0.0613		

Area	Area	Area	Area	Area	Area	Area	Area



hp LaserJet 4330 MFP PCL 6 (hp LaserJet 4330)

Job sent to the printer

Document
Job sent to the printer

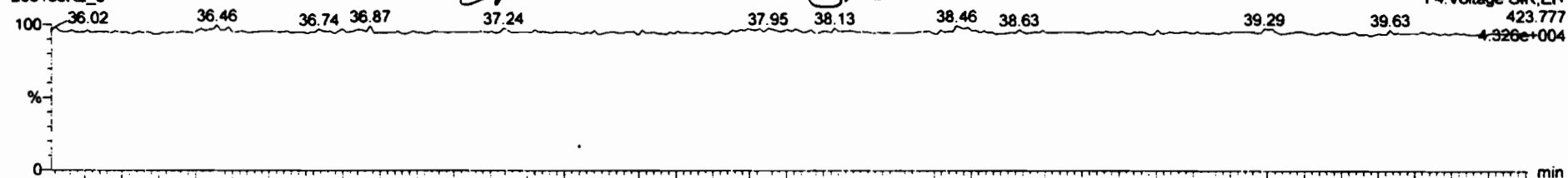
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Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

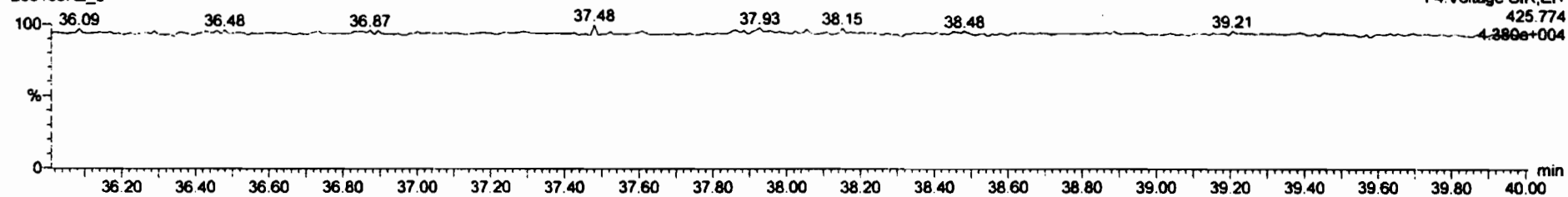
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1,2,3,4,6,7,8-HpCDD

200130R2_6

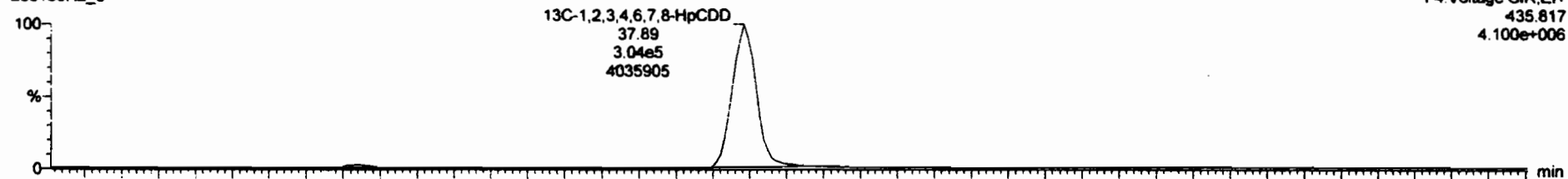


200130R2_6

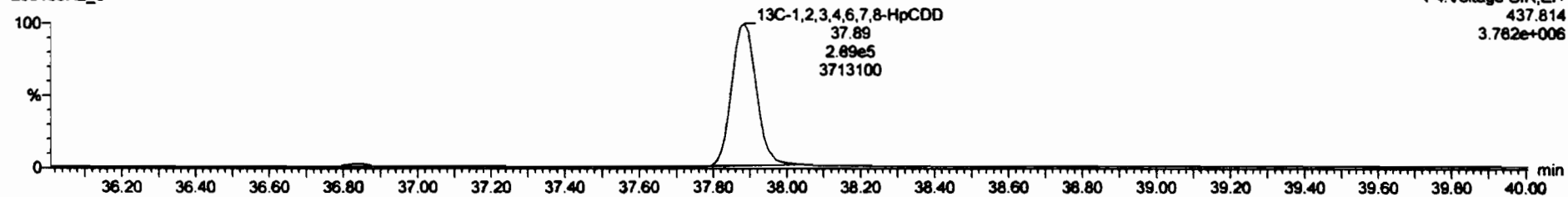


13C-1,2,3,4,6,7,8-HpCDD

200130R2_6

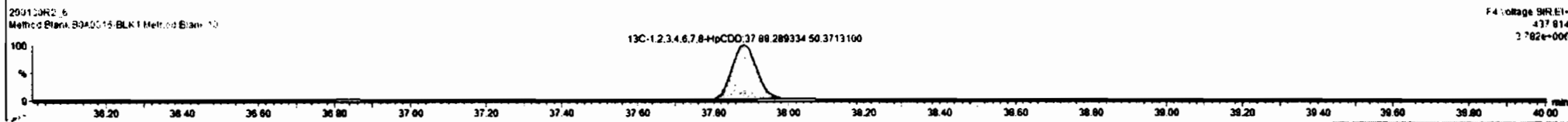
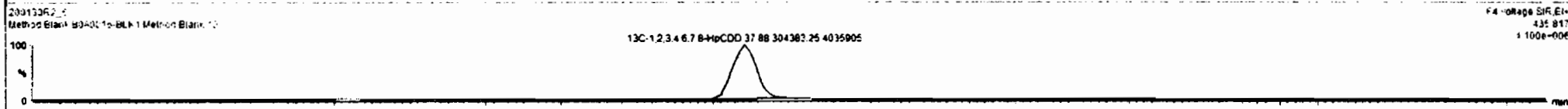
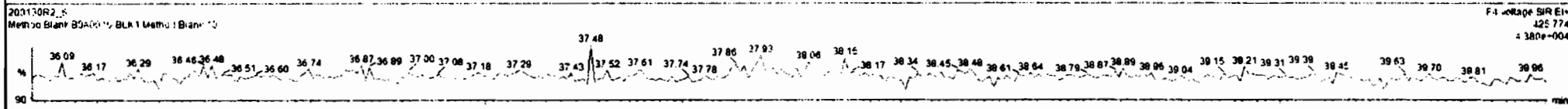
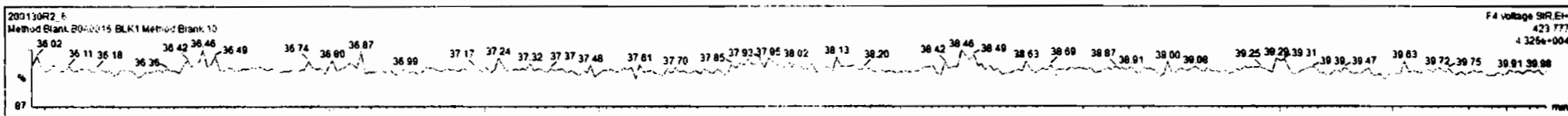


200130R2_6



Sample	Qty	Unit	Weight	Conc.	Volume
23	Total Tetra-Furane		0.5878	10.000	0.122

Time	RT	Int. Peak	Int. Name	Area	Qty	Wt%	Conc.

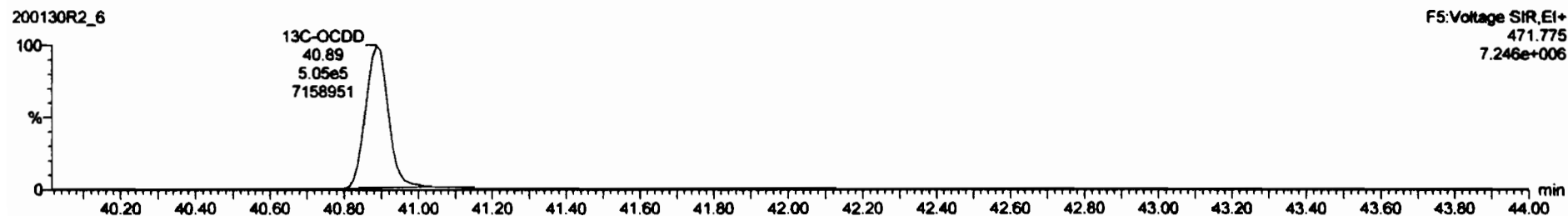
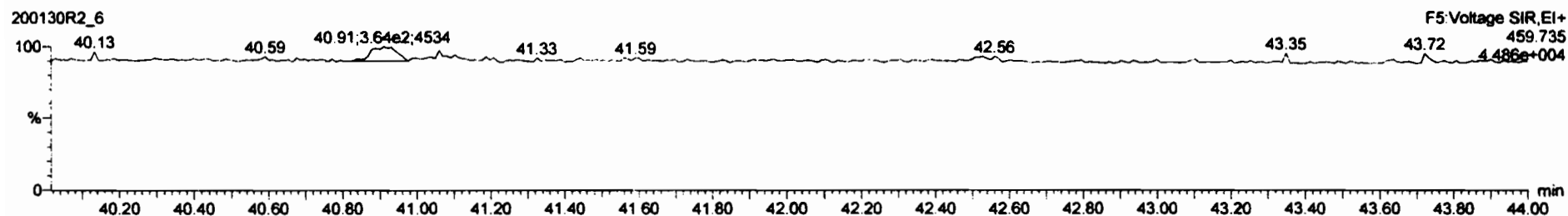
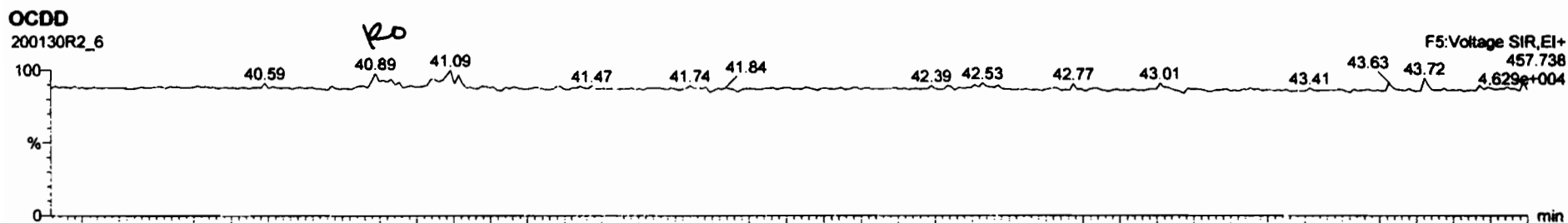


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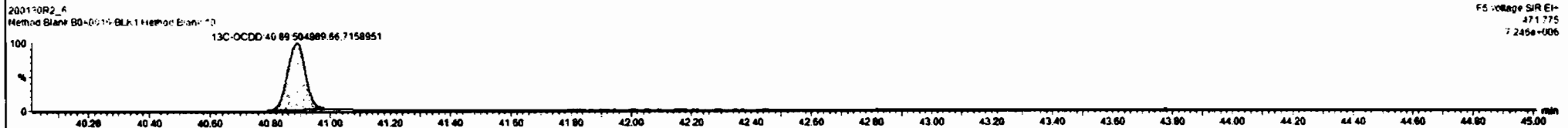
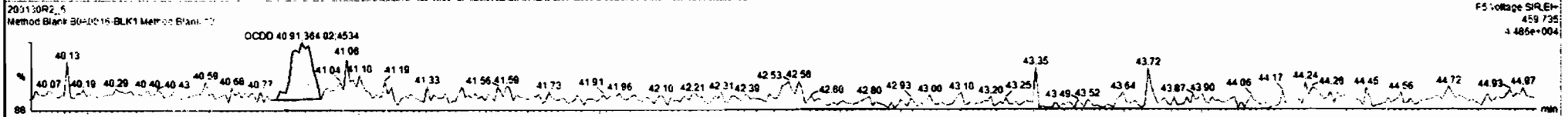
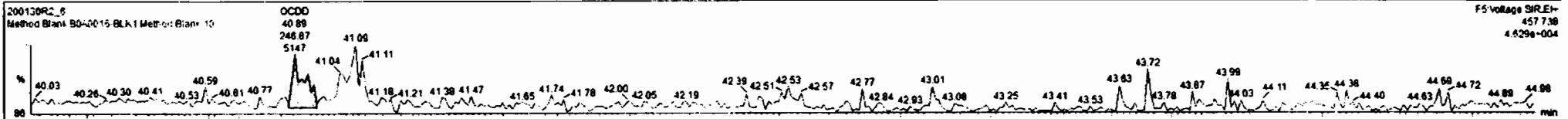
Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank



Peak	Step	Ret	Exp	Conc	Conc	Conc	Conc	Conc	Conc	Conc
1		2.237.8-TCDD		NO	0.0240	10.000				0.241
2		1.23.7.8-PeCDD		NO	0.0116	10.000				0.109
3		1.23.4.7.8-HxCDD		NO	0.0704	10.000				0.124
4		1.23.8.7.8-HxCDD		NO	0.7041	10.000				0.120
5		1.23.7.8.9-HxCDD		NO	0.7905	10.000				0.133
6		1.23.4.6.7.8-HxCDD		NO	0.7309	10.000				0.171
7		2.23.7.8-TCDF		NO	0.5078	10.000				0.273
8		1.23.7.8-PeCDF		NO	0.0261	10.000				0.0778
9		2.3.4.7.8-PeCDF		NO	0.0408	10.000				0.0750
10		1.23.4.7.8-HxCDF		NO	0.7006	10.000				0.129
11		1.23.6.7.8-HxCDF		NO	0.7201	10.000				0.127
12		2.3.4.6.7.8-HxCDF		NO	0.7085	10.000				0.141
13		1.23.7.8.9-HxCDF		NO	0.7006	10.000				0.100
14		1.23.4.6.7.8-HxCDF		NO	0.7316	10.000				0.151



Dataset: Untitled

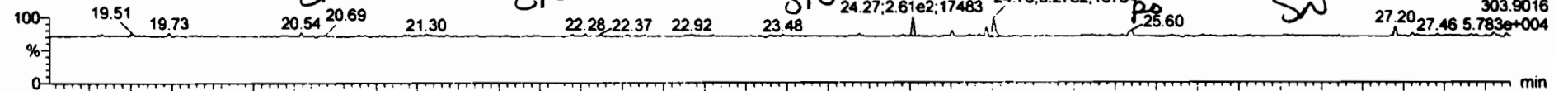
Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

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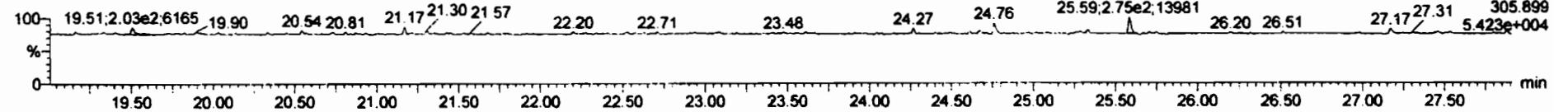
2,3,7,8-TCDF

200130R2_6



F1: Voltage SIR, EI+
303.9016
5.783e+004

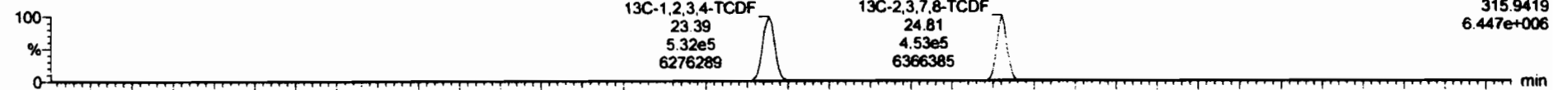
200130R2_6



F1: Voltage SIR, EI+
305.899
5.423e+004

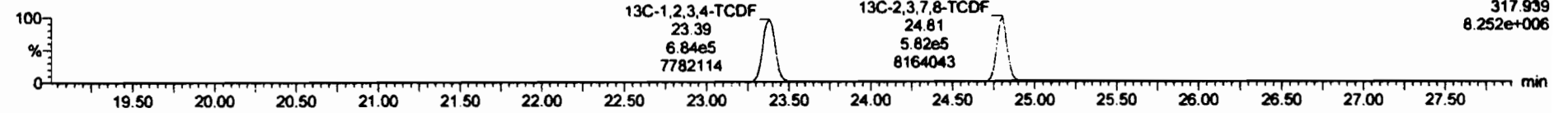
13C-2,3,7,8-TCDF

200130R2_6



F1: Voltage SIR, EI+
315.9419
6.447e+006

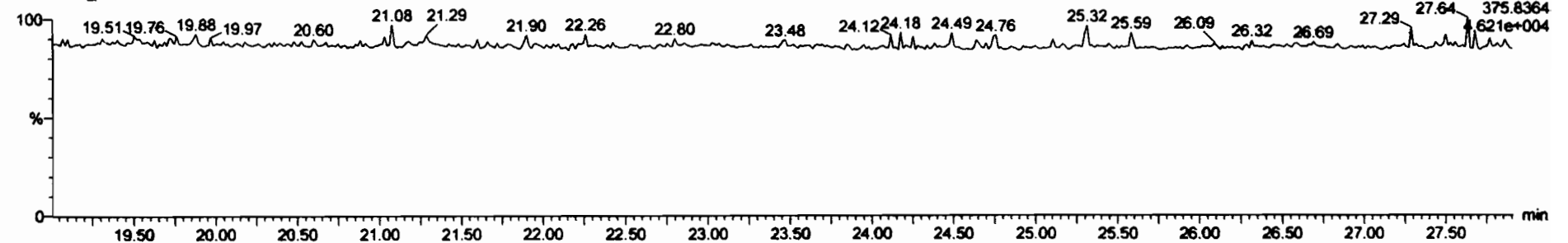
200130R2_6



F1: Voltage SIR, EI+
317.939
8.252e+006

DPE1

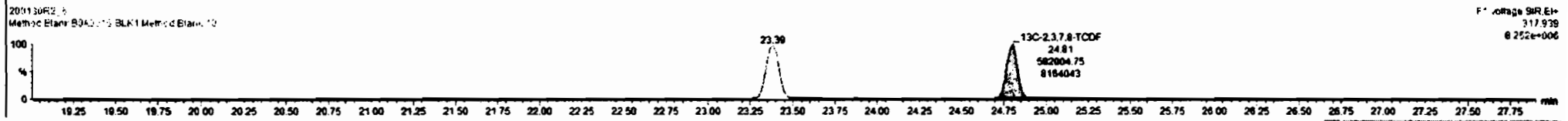
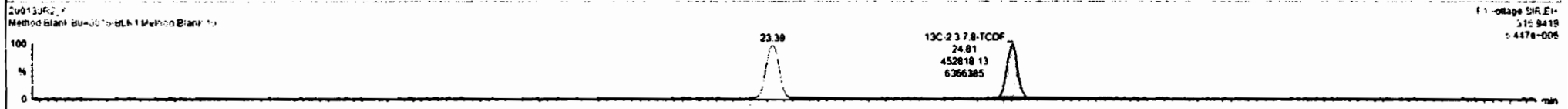
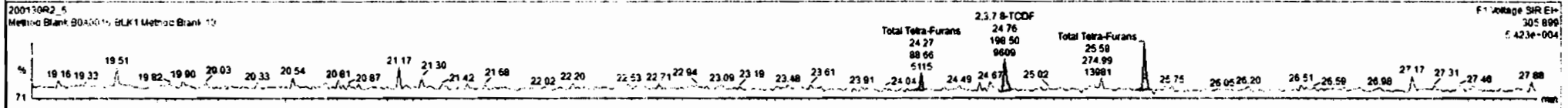
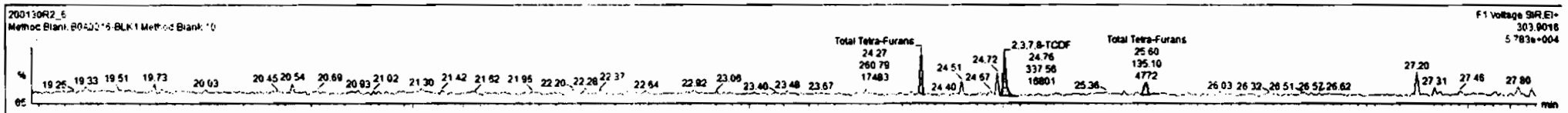
200130R2_6



F1: Voltage SIR, EI+
375.8364
6.21e+004

Sample	Comp	SA	SP	OFF	QUANT	IS	UNIT	Comp	Total	BL	EMPC
Total Hepta-Chlorob				0.7300	10.000					0.0073	

Sample	RT	RT Comp	Int Comp	SA	SP	IS	UNIT	Comp	Total
1 Total Tetra-Furans	24.27	2.686e2	8.888e1	2.94	YES	0.561800	0.00000		
2 2,3,7,8-TCDF	24.76	3.378e2	1.985e2	1.70	YES	0.11553	0.00000		
3 Total Tetra-Furans	25.60	1.951e2	2.750e2	0.49	YES	0.18212	0.00000		



Dataset: Untitled

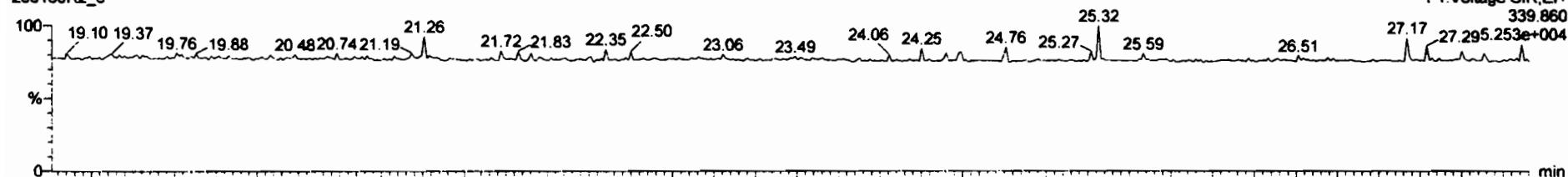
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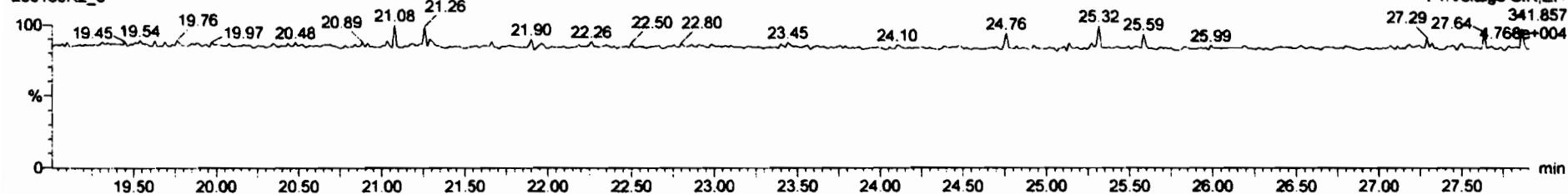
Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200130R2_6

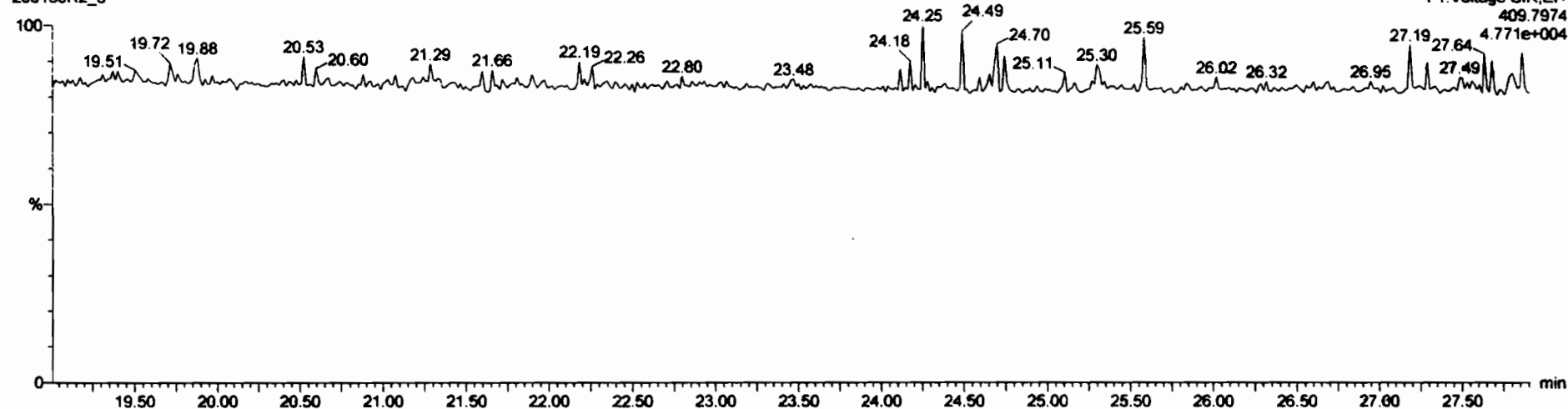


200130R2_6



DPE6

200130R2_6



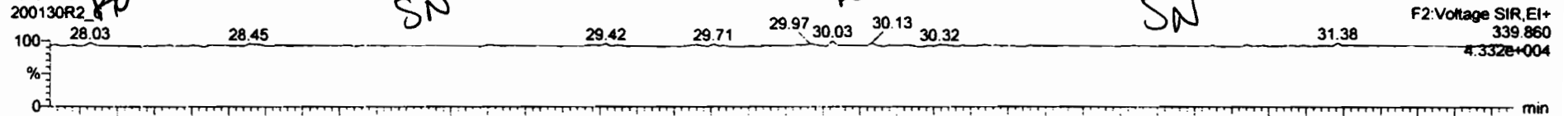
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Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

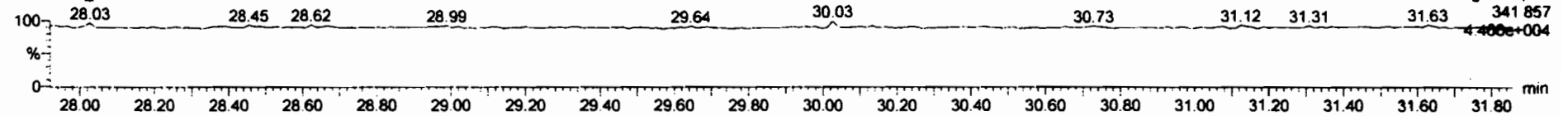
Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank

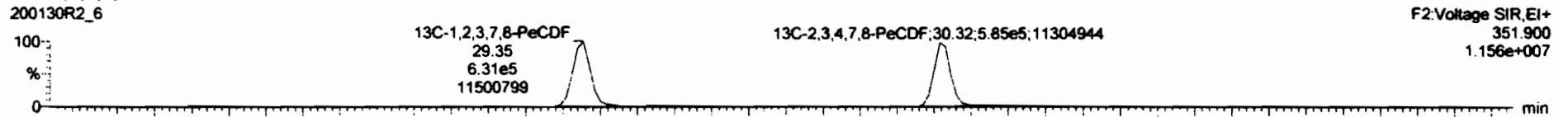
1,2,3,7,8-PeCDF



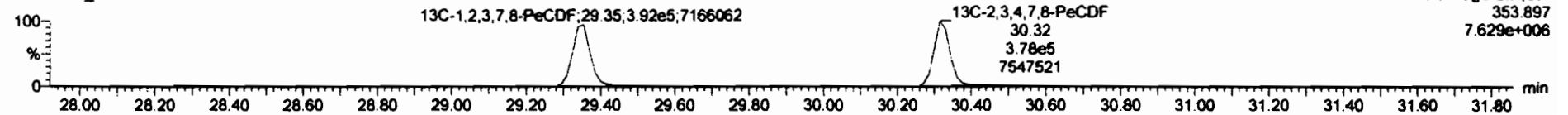
200130R2_6



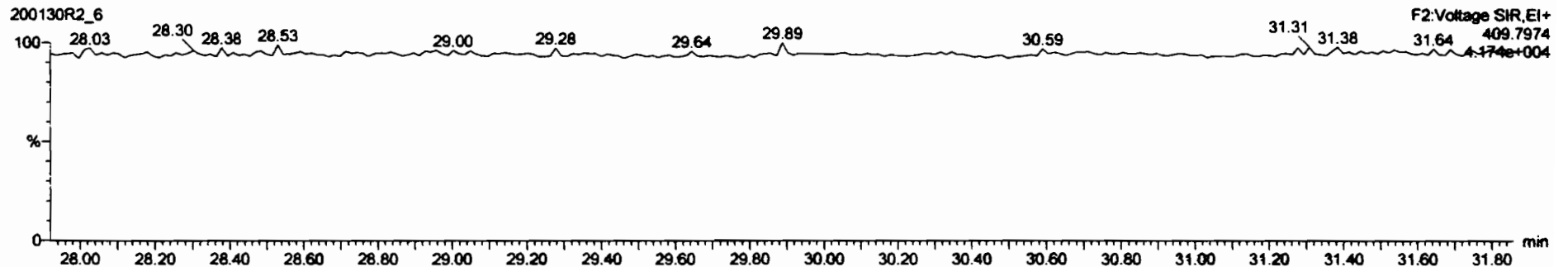
13C-1,2,3,7,8-PeCDF



200130R2_6

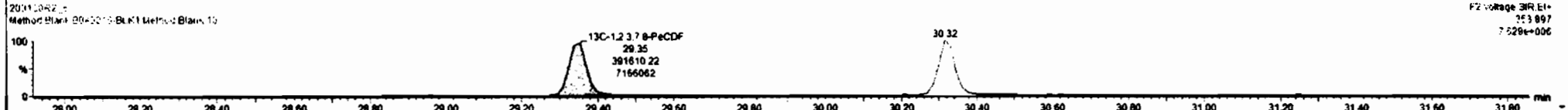
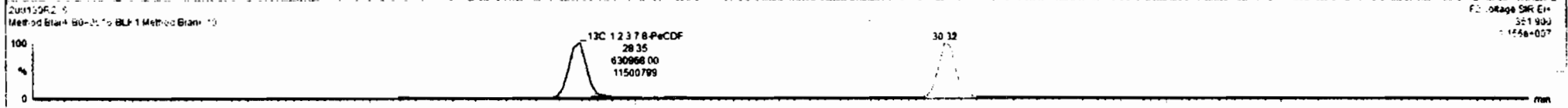
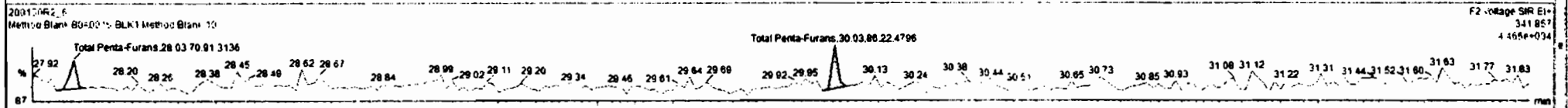
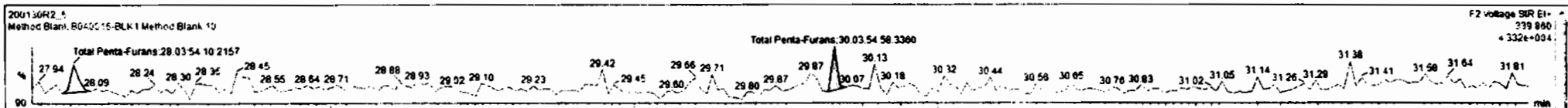


DPE2



Class	Group	SN	Qty	Wt	Wt/Qty	Wt/Conc	Wt/Conc	Wt/Conc	Wt/Conc	Wt/Conc
Total Hexa-Furans				0.7685	10.000					0.0726

Class	Wt	wt Blk	wt Blk	SN	Qty	Wt	Wt/Conc
1 Total Penta-Furans	28.03	5.410e1	7.881e1	0.78	YES	0.021704	0.000000
2 Total Penta-Furans	30.03	5.458e1	8.622e1	0.63	YES	0.021886	0.000000



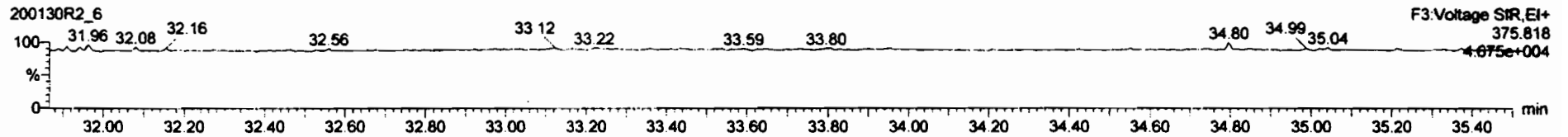
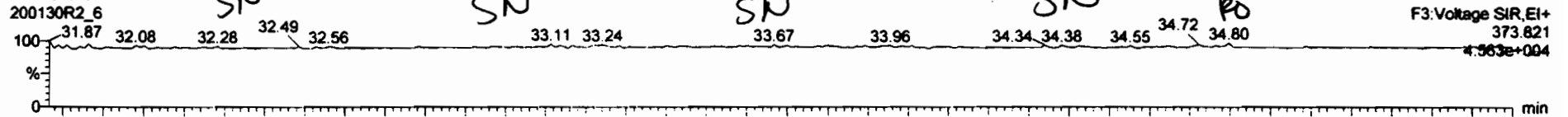
Dataset: Untitled

Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

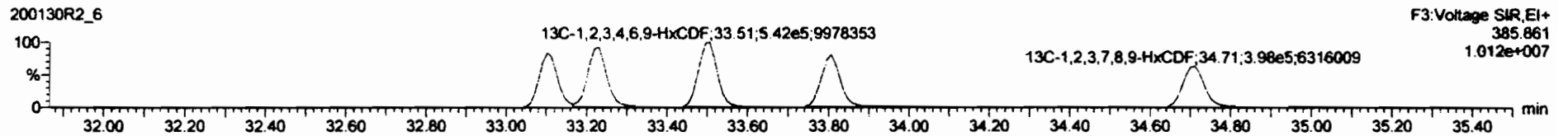
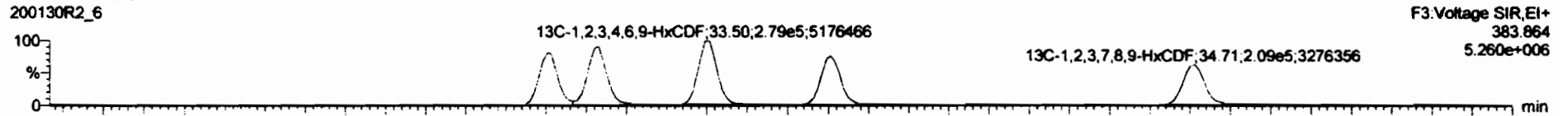
Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank

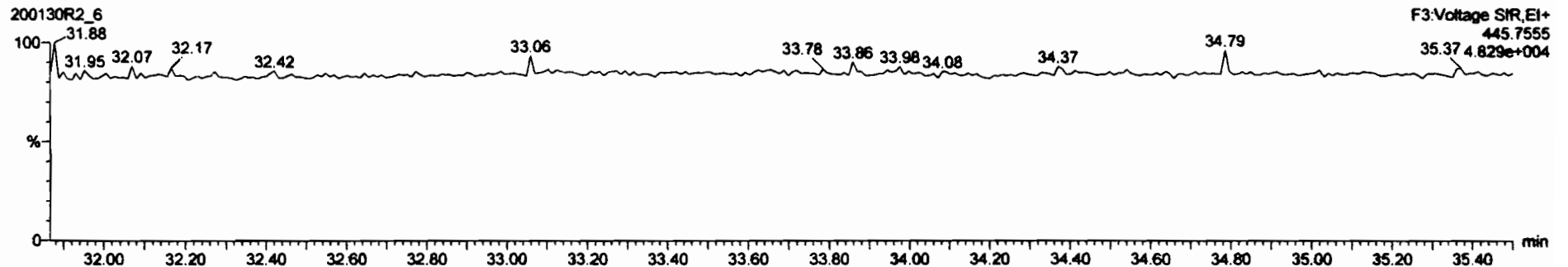
1,2,3,4,7,8-HxCDF

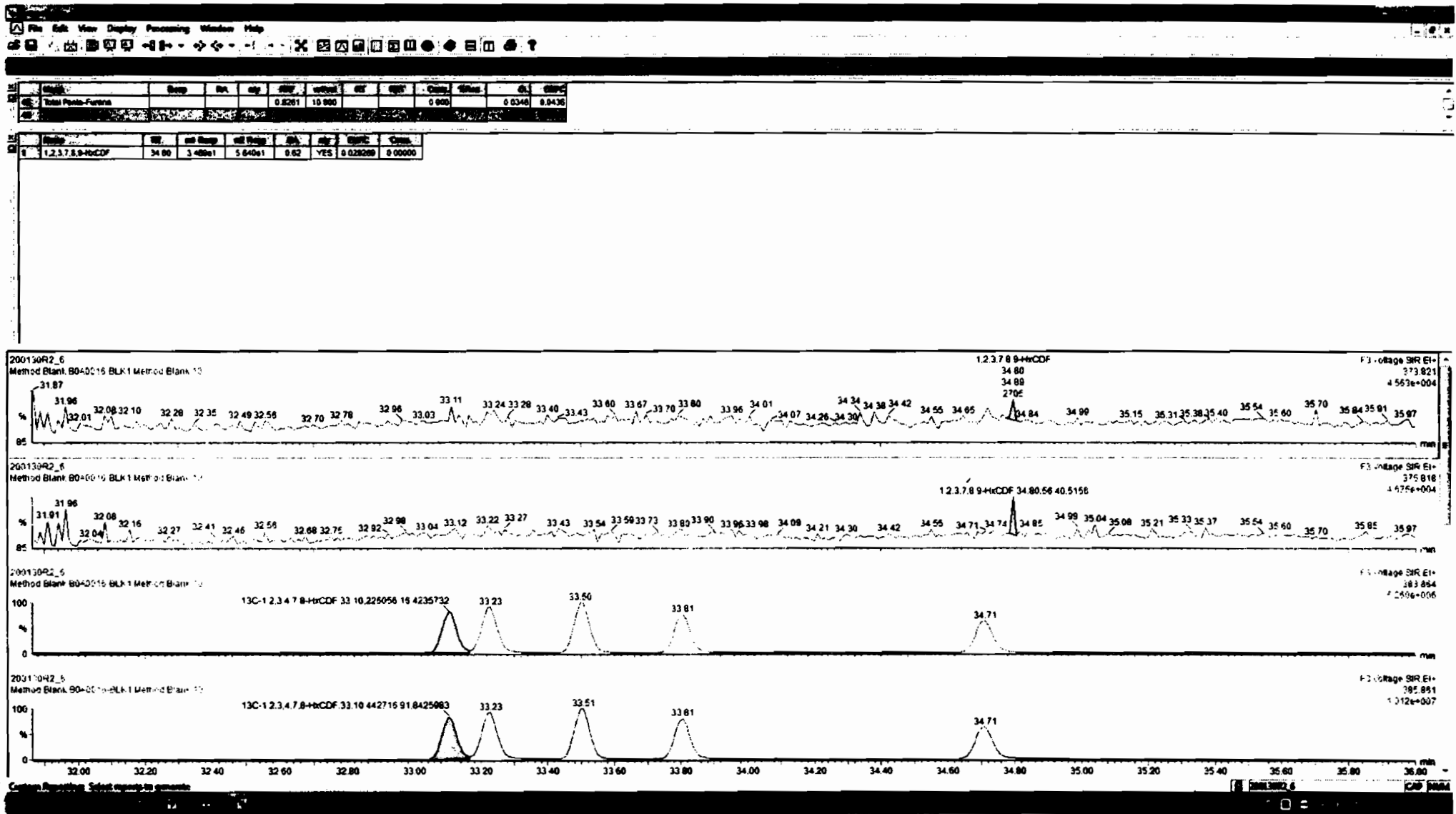


13C-1,2,3,4,7,8-HxCDF



DPE3





Dataset: Untitled

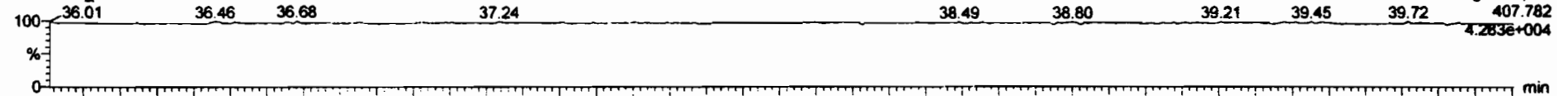
Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

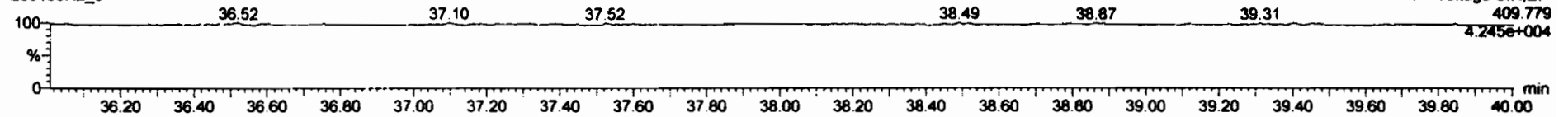
Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank

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

200130R2_6

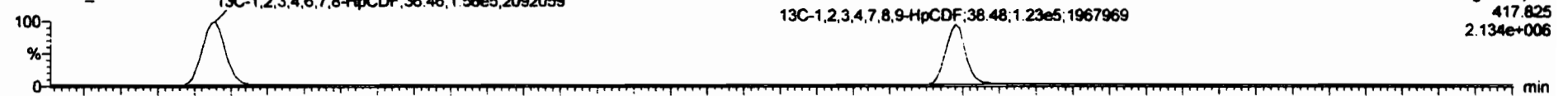


200130R2_6

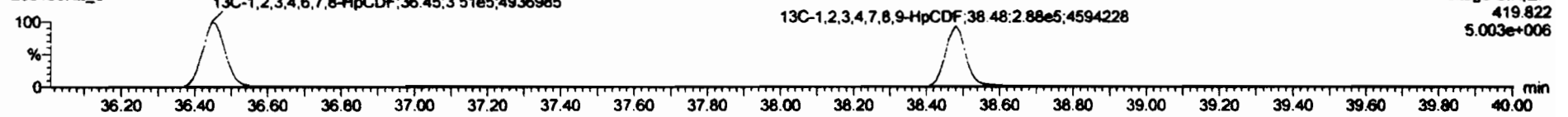


13C-1,2,3,4,6,7,8-HpCDF

200130R2_6

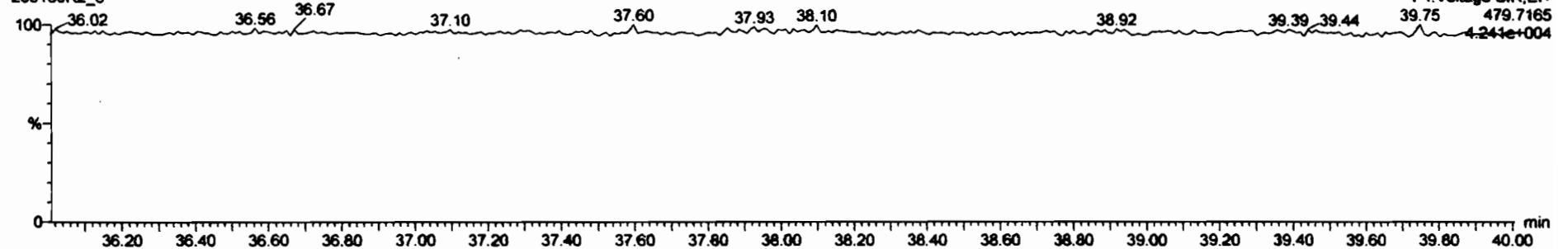


200130R2_6



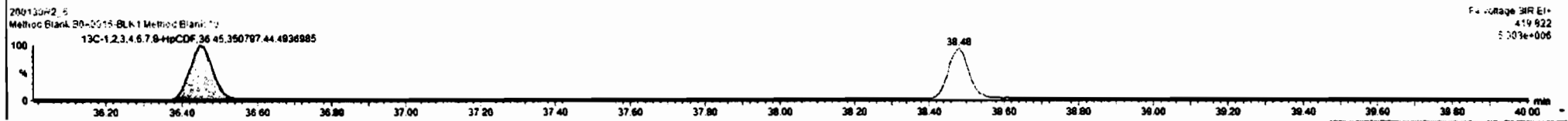
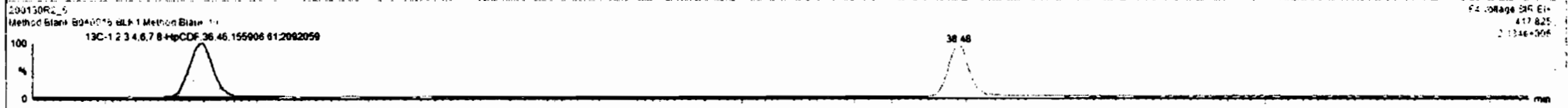
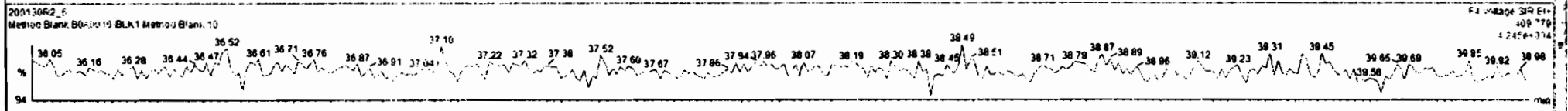
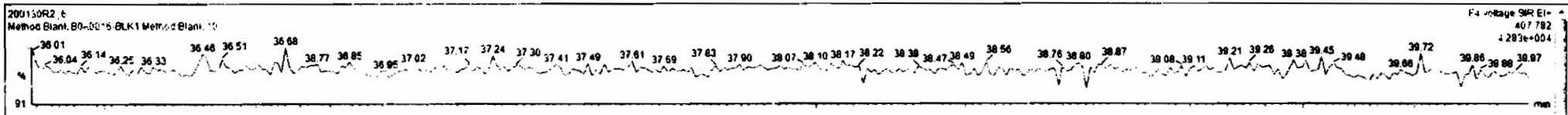
DPE4

200130R2_6



Sample	Comp	Run	inj	Area	Conc	Area	Conc
Total Penta-Furans				0.6281	10.000	0.0348	0.0438
Total Hexa-Furans				0.7685	10.000	0.0600	0.0728

Mass	RT	Int Resp	MS/MS	SN	SP	SWPC	Choc
1							

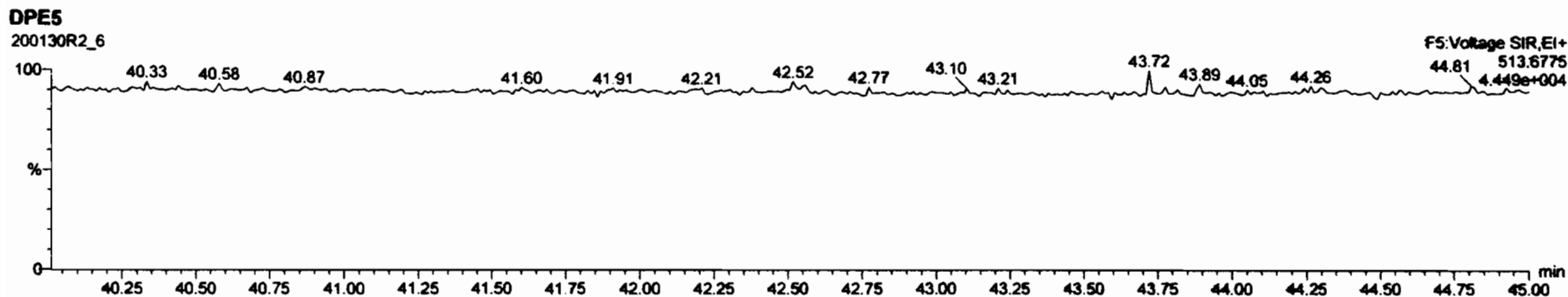
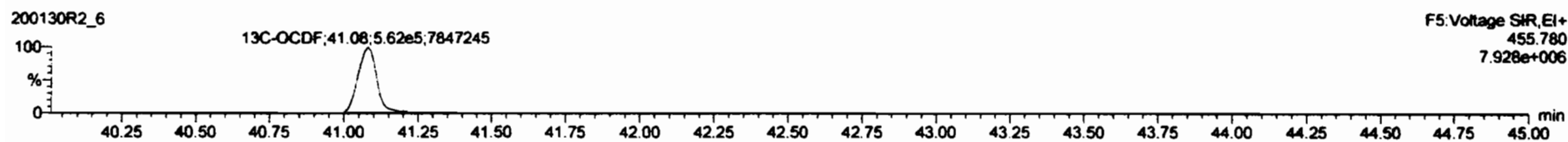
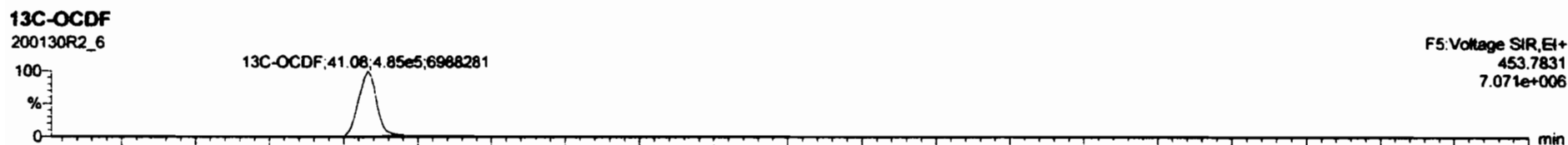
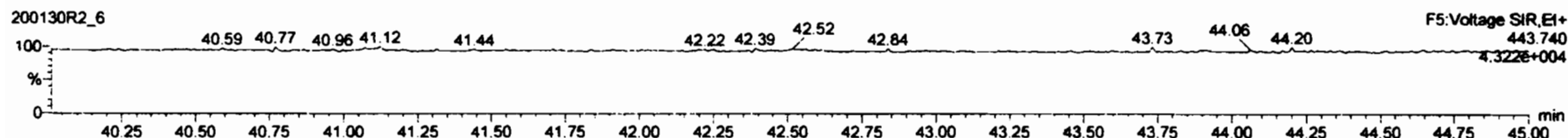
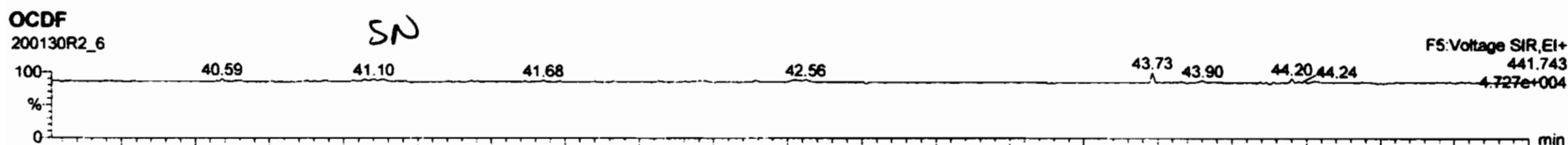


Dataset: Untitled

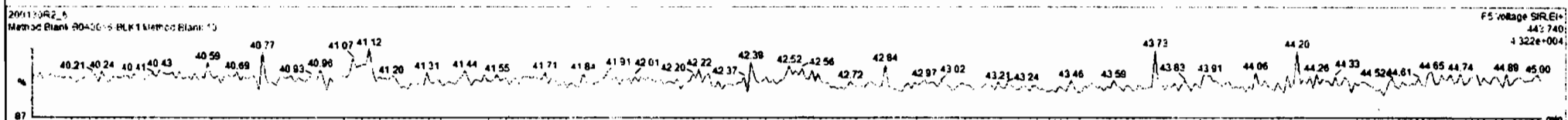
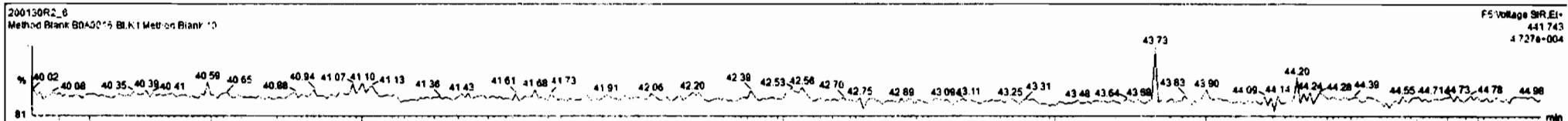
Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank



Peak	Ret. Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height		
1	12.378-PeCDD					NO	0.9116	10.000														0.109	
2	12.347,8-HxCDD					NO	0.8794	10.000														0.124	
3	12.387,8-HxCDD					NO	0.7841	10.000														0.128	
4	12.378,8-HxCDD					NO	0.7585	10.000														0.133	
5	12.346,7,8-HpCDD					NO	0.7369	10.000														0.171	
6	OCDD	0.11e2	0.66	YES	0.8000	10.000	48.80	1.000	0.321													0.208	0.278
7	2,3,7,8-TCDF					NO	0.5878	10.000														0.273	
8	12.378-PeCDF					NO	0.8281	10.000														0.0770	
9	2,3,4,7,8-PeCDF					NO	0.8486	10.000														0.0750	
10	12.347,8-HxCDF					NO	0.7896	10.000														0.129	
11	12.387,8-HxCDF					NO	0.7201	10.000														0.127	
12	2,3,4,6,7,8-HxCDF					NO	0.7685	10.000														0.141	
13	12.378,8-HxCDF					NO	0.7086	10.000														0.188	
14	12.346,7,8-HpCDF					NO	0.7316	10.000														0.151	
15	12.347,8-HpCDF					NO	0.8164	10.000														0.141	



hp LaserJet 4330 MFP PCL 6 (hp LaserJet 4330)

Job sent to the printer

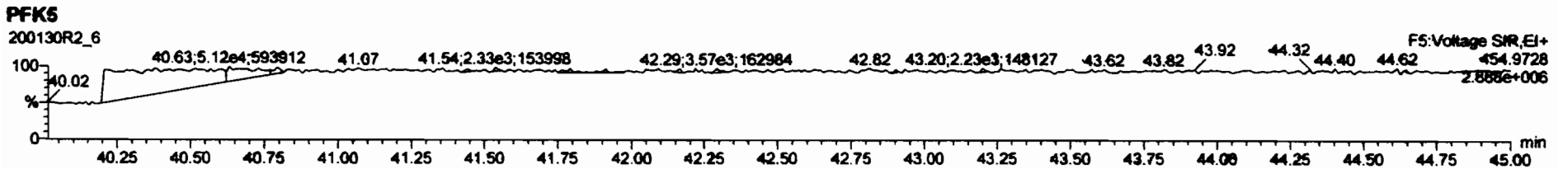
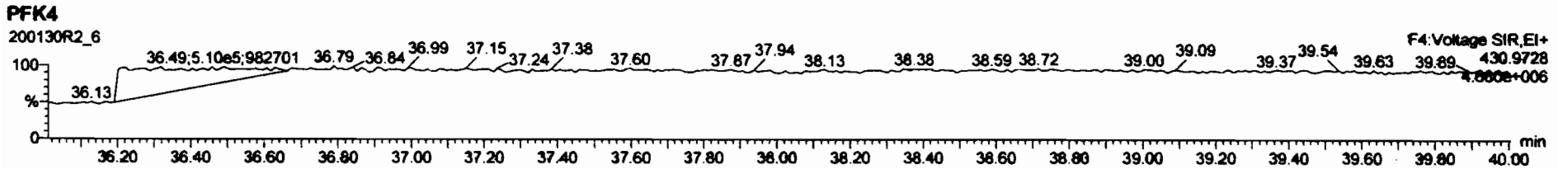
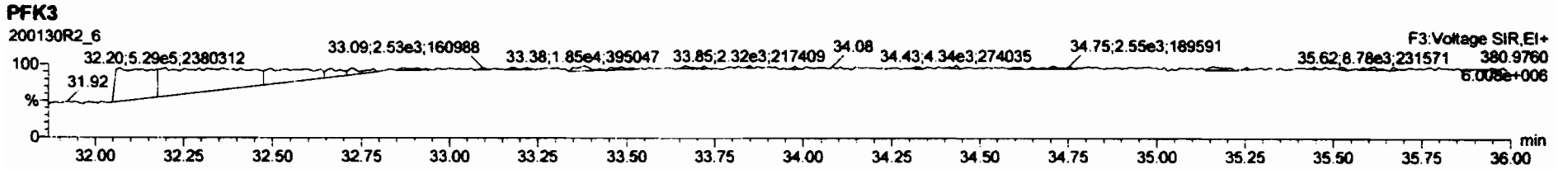
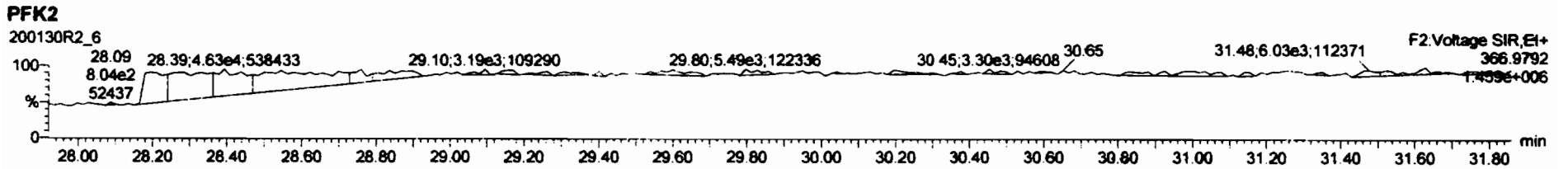
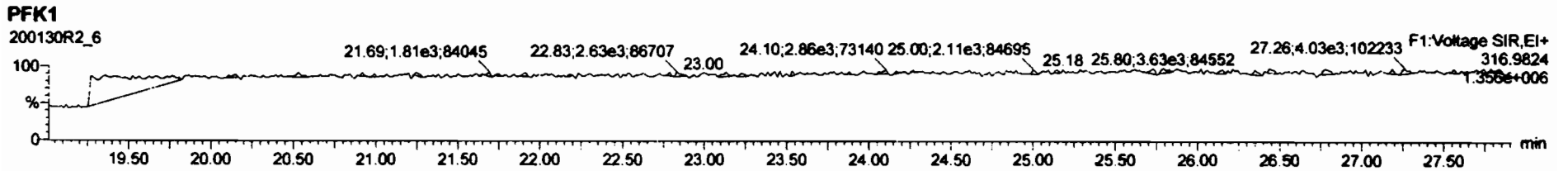
Document: Job sent to the printer

Dataset: Untitled

Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_6, Date: 30-Jan-2020, Time: 18:21:31, ID: B0A0016-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200130R2\200130R2-3.qld

Last Altered: Friday, January 31, 2020 08:46:22 Pacific Standard Time
Printed: Monday, February 03, 2020 15:28:27 Pacific Standard Time

GRB 02/03/2020

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_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R2_3, Date: 30-Jan-2020, Time: 16:00:38, ID: B0A0016-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	1.52e5	0.77	NO	0.824	10.000	25.736	25.74	1.001	1.001	22.954		0.145	23.0
2	2 1,2,3,7,8-PeCDD	6.56e5	0.63	NO	0.912	10.000	30.658	30.65	1.001	1.000	103.57		0.126	104
3	3 1,2,3,4,7,8-HxCDD	5.99e5	1.23	NO	0.870	10.000	33.998	34.00	1.000	1.000	114.08		0.164	114
4	4 1,2,3,6,7,8-HxCDD	6.22e5	1.23	NO	0.784	10.000	34.094	34.10	1.000	1.000	117.24		0.174	117
5	5 1,2,3,7,8,9-HxCDD	6.26e5	1.21	NO	0.798	10.000	34.405	34.38	1.001	1.000	114.12		0.174	114
6	6 1,2,3,4,6,7,8-HpCDD	5.02e5	1.02	NO	0.737	10.000	37.907	37.92	1.000	1.001	118.05		0.417	118
7	7 OCDD	7.87e5	0.88	NO	0.800	10.000	40.900	40.91	1.000	1.000	227.84		0.247	228
8	8 2,3,7,8-TCDF	1.71e5	0.74	NO	0.588	10.000	24.862	24.85	1.001	1.001	26.529		0.156	26.5
9	9 1,2,3,7,8-PeCDF	9.71e5	1.54	NO	0.826	10.000	29.376	29.37	1.001	1.000	109.46		0.166	109
10	10 2,3,4,7,8-PeCDF	9.60e5	1.53	NO	0.850	10.000	30.362	30.35	1.001	1.000	110.78		0.156	111
11	11 1,2,3,4,7,8-HxCDF	6.74e5	1.16	NO	0.787	10.000	33.125	33.13	1.000	1.000	120.55		0.243	121
12	12 1,2,3,6,7,8-HxCDF	6.96e5	1.18	NO	0.720	10.000	33.252	33.25	1.000	1.000	116.56		0.238	117
13	13 2,3,4,6,7,8-HxCDF	6.31e5	1.17	NO	0.766	10.000	33.851	33.84	1.001	1.001	120.41		0.275	120
14	14 1,2,3,7,8,9-HxCDF	5.41e5	1.16	NO	0.709	10.000	34.722	34.74	1.000	1.001	118.79		0.334	119
15	15 1,2,3,4,6,7,8-HpCDF	4.30e5	0.95	NO	0.732	10.000	36.505	36.49	1.001	1.001	114.24		0.419	114
16	16 1,2,3,4,7,8,9-HpCDF	3.83e5	0.96	NO	0.816	10.000	38.493	38.50	1.000	1.000	115.90		0.412	116
17	17 OCDF	7.72e5	0.85	NO	0.639	10.000	41.091	41.10	1.000	1.000	247.03		0.275	247
18	18 13C-2,3,7,8-TCDD	1.61e6	0.79	NO	1.12	10.000	25.706	25.70	1.026	1.026	201.10	101	0.215	
19	19 13C-1,2,3,7,8-PeCDD	1.39e6	0.64	NO	0.841	10.000	30.450	30.64	1.215	1.222	230.00	115	0.326	
20	20 13C-1,2,3,4,7,8-HxCDD	1.21e6	1.27	NO	0.938	10.000	33.988	33.99	1.014	1.014	169.24	84.6	0.286	
21	21 13C-1,2,3,6,7,8-HxCDD	1.35e6	1.26	NO	1.07	10.000	34.088	34.09	1.017	1.017	167.03	83.5	0.251	
22	22 13C-1,2,3,7,8,9-HxCDD	1.37e6	1.26	NO	1.03	10.000	34.390	34.37	1.026	1.025	175.35	87.7	0.260	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.15e6	1.03	NO	0.710	10.000	37.943	37.90	1.132	1.131	213.70	107	0.535	
24	24 13C-OCDD	1.73e6	0.89	NO	0.601	10.000	40.826	40.90	1.218	1.220	378.01	94.5	0.268	
25	25 13C-2,3,7,8-TCDF	2.19e6	0.78	NO	1.04	10.000	24.886	24.84	0.993	0.991	173.48	86.7	0.269	
26	26 13C-1,2,3,7,8-PeCDF	2.15e6	1.57	NO	0.917	10.000	29.222	29.35	1.166	1.171	192.37	96.2	0.417	
27	27 13C-2,3,4,7,8-PeCDF	2.04e6	1.60	NO	0.903	10.000	30.174	30.33	1.204	1.210	185.50	92.8	0.423	
28	28 13C-1,2,3,4,7,8-HxCDF	1.42e6	0.51	NO	0.861	10.000	33.116	33.13	0.988	0.988	216.91	108	0.417	
29	29 13C-1,2,3,6,7,8-HxCDF	1.66e6	0.51	NO	1.05	10.000	33.217	33.24	0.991	0.992	208.21	104	0.343	
30	30 13C-2,3,4,6,7,8-HxCDF	1.37e6	0.51	NO	0.946	10.000	33.824	33.82	1.009	1.009	190.00	95.0	0.380	
31	31 13C-1,2,3,7,8,9-HxCDF	1.29e6	0.51	NO	0.818	10.000	34.725	34.72	1.036	1.036	207.20	104	0.440	

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-3.qld

Last Altered: Friday, January 31, 2020 08:46:22 Pacific Standard Time
Printed: Monday, February 03, 2020 15:28:27 Pacific Standard Time

Name: 200130R2_3, Date: 30-Jan-2020, Time: 16:00:38, ID: B0A0016-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	nty	RRF	wt/mtl	Pred.RTF	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	1.03e6	0.43	NO	0.589	10.000	36.468	36.47	1.088	1.088	229.79	115	0.612	
33	13C-1,2,3,4,7,8,9-HpCDF	8.10e5	0.43	NO	0.448	10.000	38.479	38.49	1.148	1.148	237.62	119	0.804	
34	13C-OCDF	1.96e6	0.88	NO	0.586	10.000	41.060	41.09	1.225	1.226	439.14	110	0.307	
35	37Cl-2,3,7,8-TCDD	6.32e5			1.09	10.000	25.738	25.74	1.027	1.027	81.067	101	0.0885	
36	13C-1,2,3,4-TCDD	1.44e6	0.80	NO	1.00	10.000	25.080	25.06	1.000	1.000	200.00	100	0.240	
37	13C-1,2,3,4-TCDF	2.44e6	0.78	NO	1.00	10.000	23.420	23.42	1.000	1.000	200.00	100	0.279	
38	13C-1,2,3,4,6,9-HxCDF	1.52e6	0.51	NO	1.00	10.000	33.520	33.52	1.000	1.000	200.00	100	0.359	

Dataset: Untitled

Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

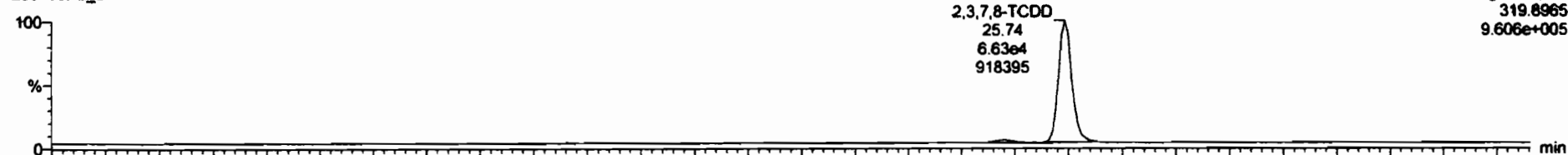
Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

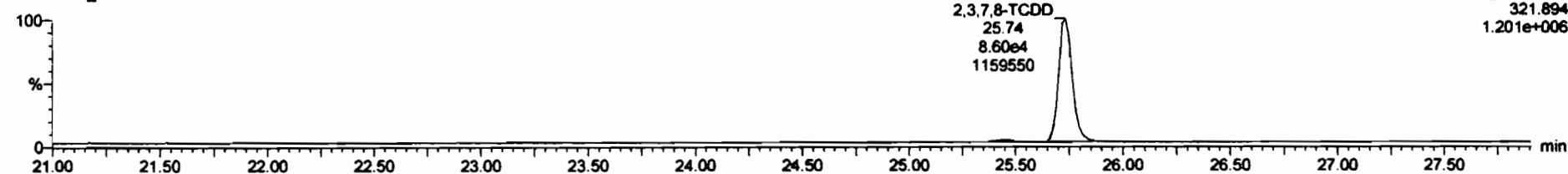
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2,3,7,8-TCDD

200130R2_3

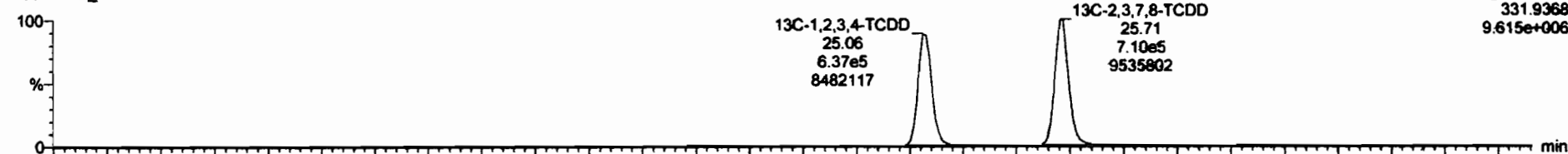


200130R2_3

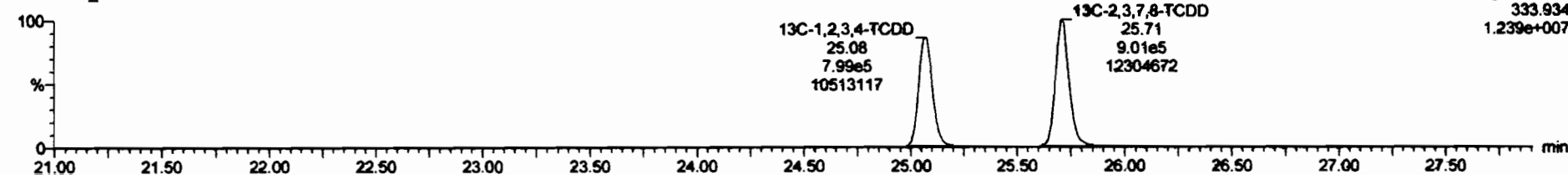


13C-2,3,7,8-TCDD

200130R2_3



200130R2_3



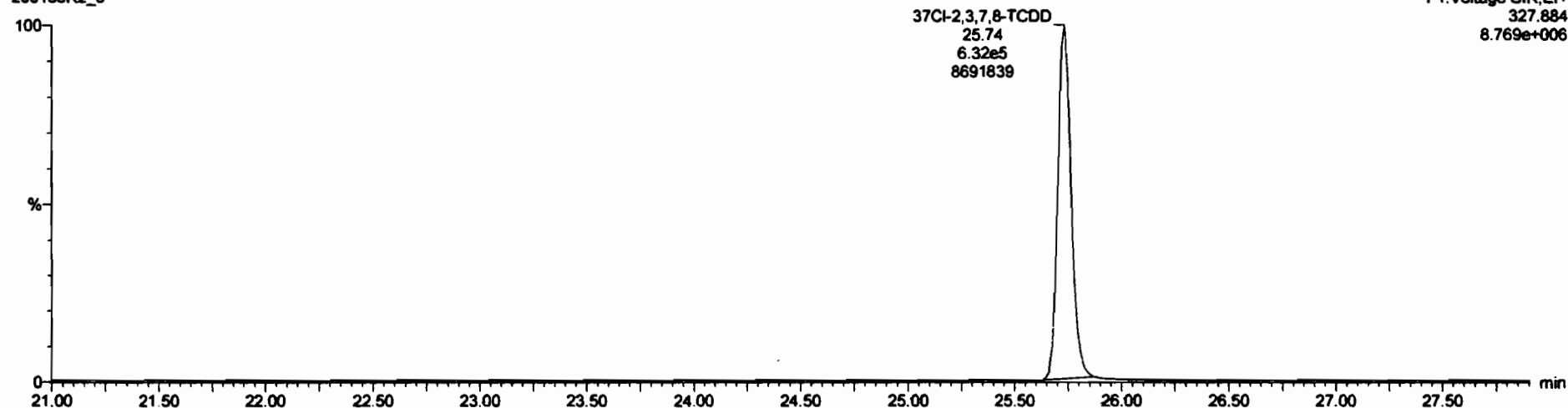
Dataset: Untitled

Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time
Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_3, Date: 30-Jan-2020, Time: 16:00:38, ID: B0A0016-BS1 OPR 10, Description: OPR

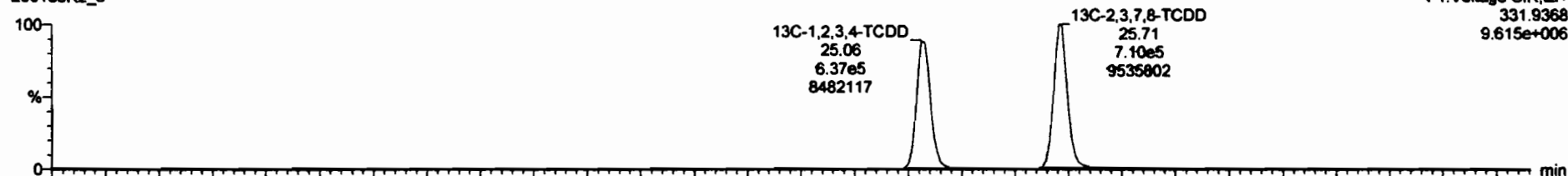
37Cl-2,3,7,8-TCDD

200130R2_3

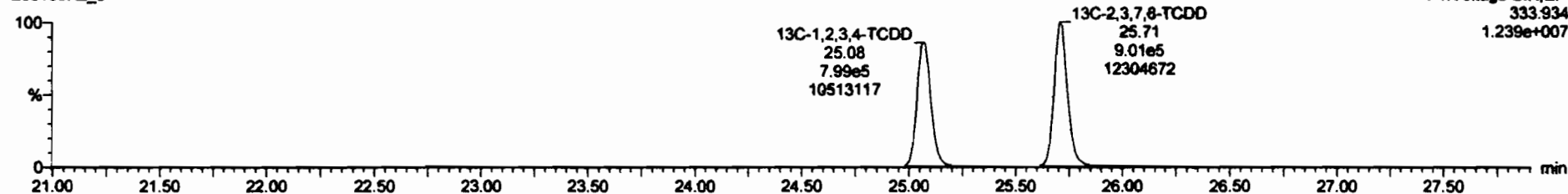


13C-1,2,3,4-TCDD

200130R2_3



200130R2_3



Dataset: Untitled

Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_3, Date: 30-Jan-2020, Time: 16:00:38, ID: B0A0016-BS1 OPR 10, Description: OPR

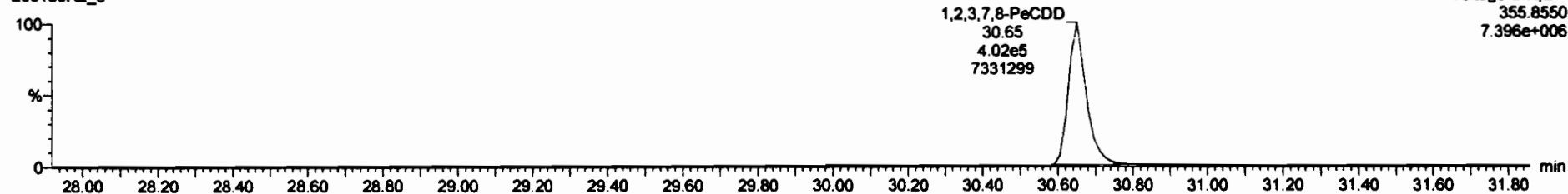
1,2,3,7,8-PeCDD

200130R2_3



F2:Voltage SIR,EI+
353.8576
4.758e+006

200130R2_3



F2:Voltage SIR,EI+
355.8550
7.396e+006

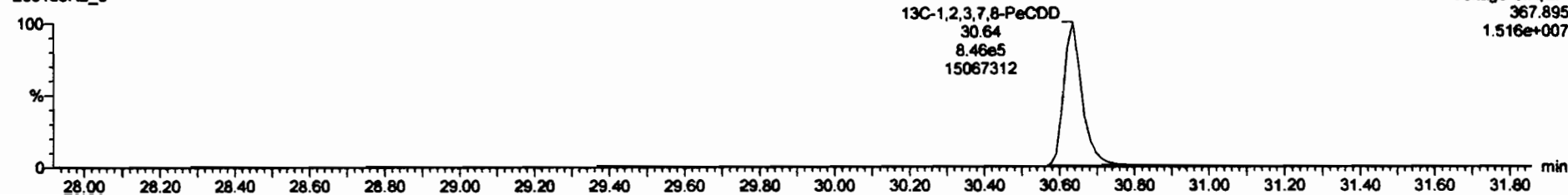
13C-1,2,3,7,8-PeCDD

200130R2_3



F2:Voltage SIR,EI+
365.8978
9.741e+006

200130R2_3



F2:Voltage SIR,EI+
367.895
1.516e+007

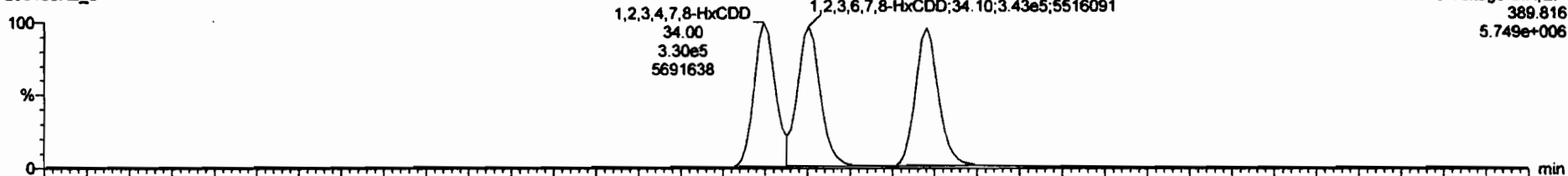
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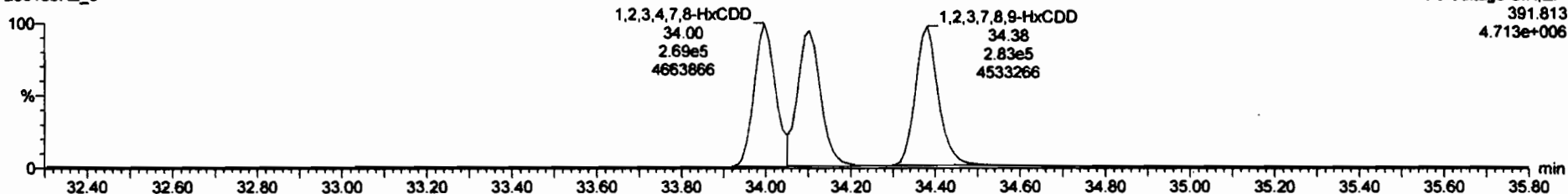
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1,2,3,4,7,8-HxCDD

200130R2_3

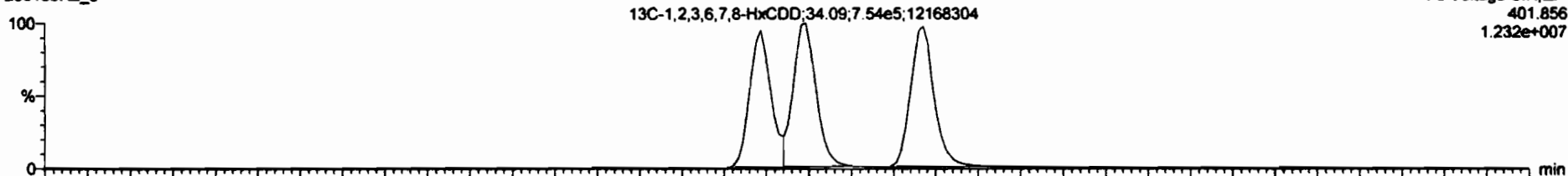


200130R2_3

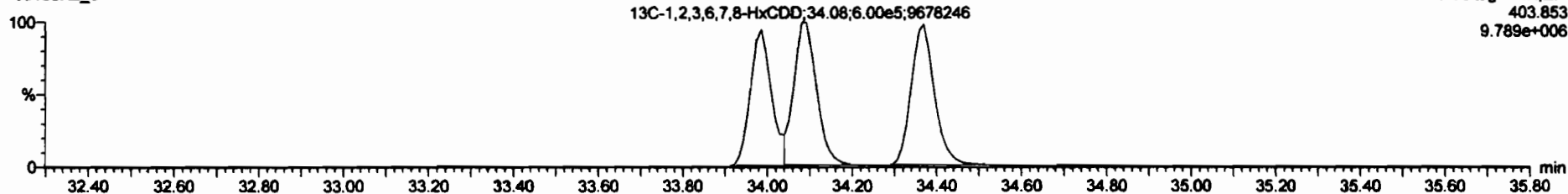


13C-1,2,3,4,7,8-HxCDD

200130R2_3



200130R2_3



Dataset: Untitled

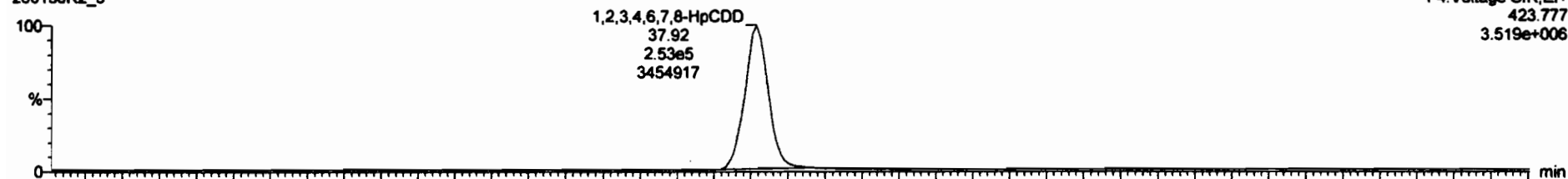
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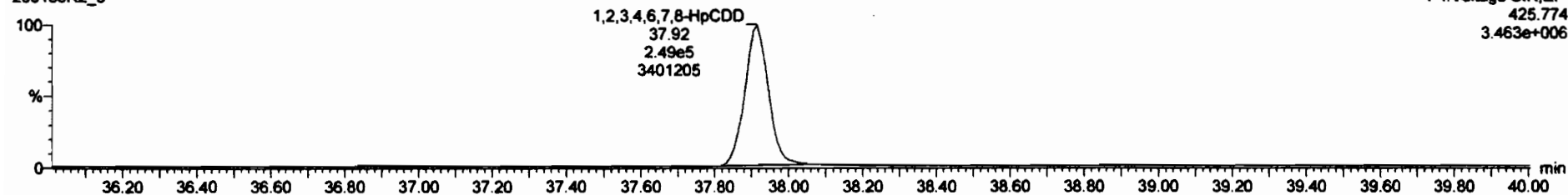
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1,2,3,4,6,7,8-HpCDD

200130R2_3

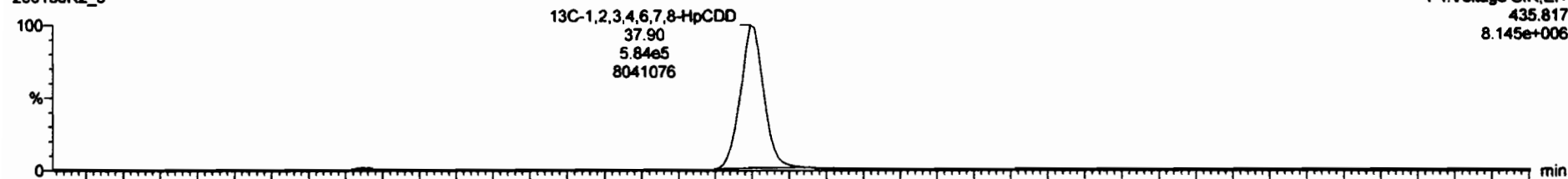


200130R2_3

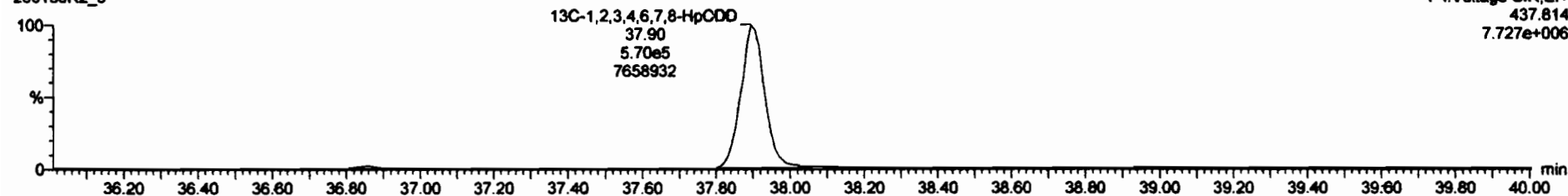


13C-1,2,3,4,6,7,8-HpCDD

200130R2_3



200130R2_3



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Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

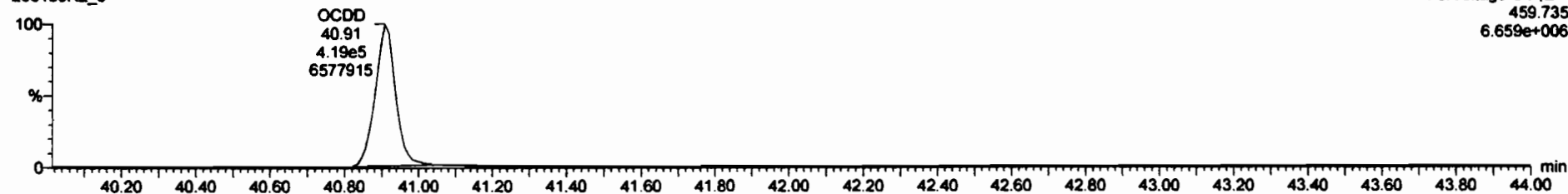
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OCDD

200130R2_3



200130R2_3

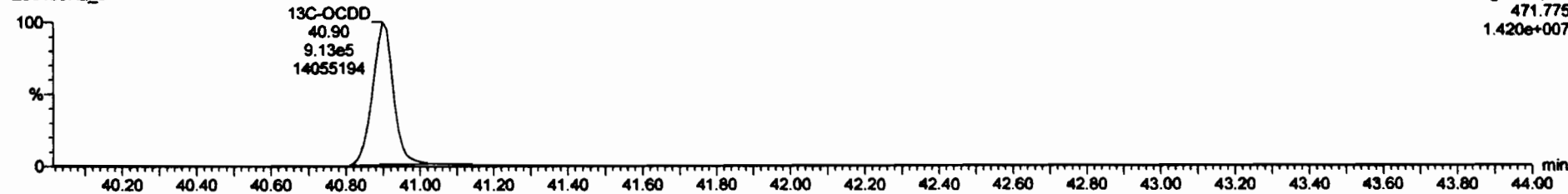


13C-OCDD

200130R2_3



200130R2_3



Dataset: Untitled

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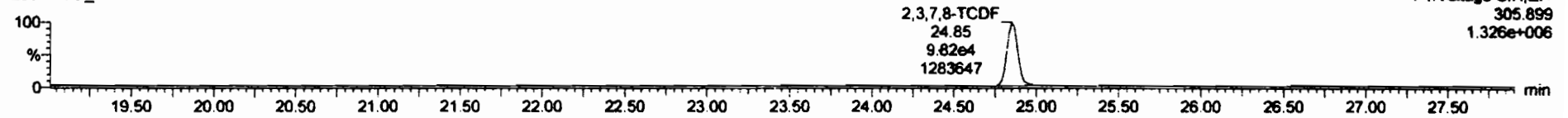
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2,3,7,8-TCDF

200130R2_3

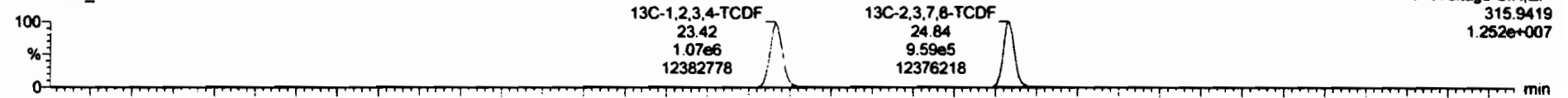


200130R2_3

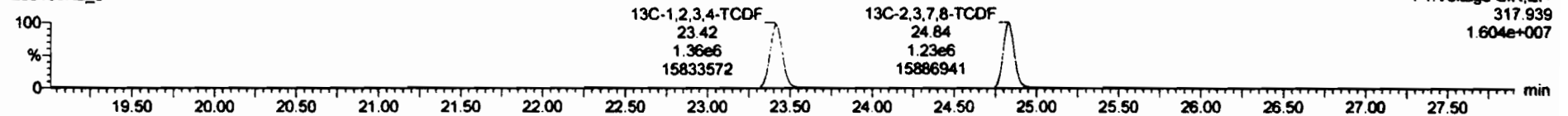


13C-2,3,7,8-TCDF

200130R2_3

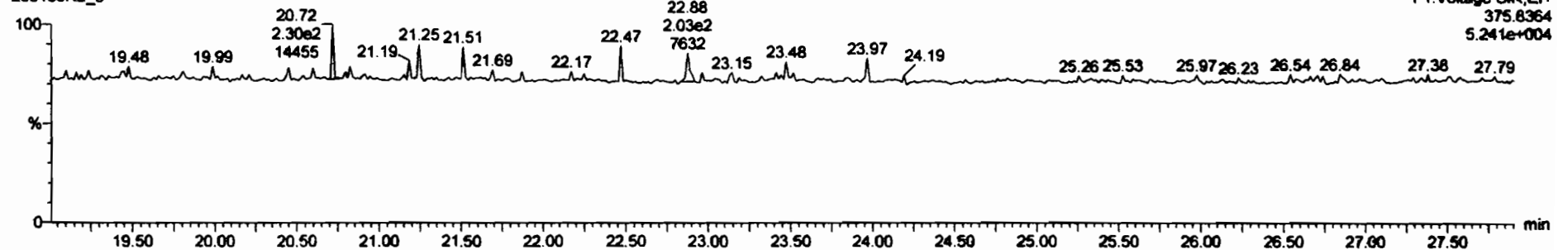


200130R2_3



DPE1

200130R2_3



Dataset: Untitled

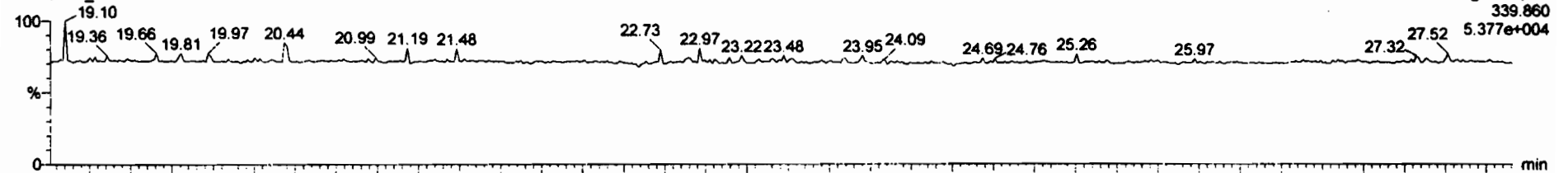
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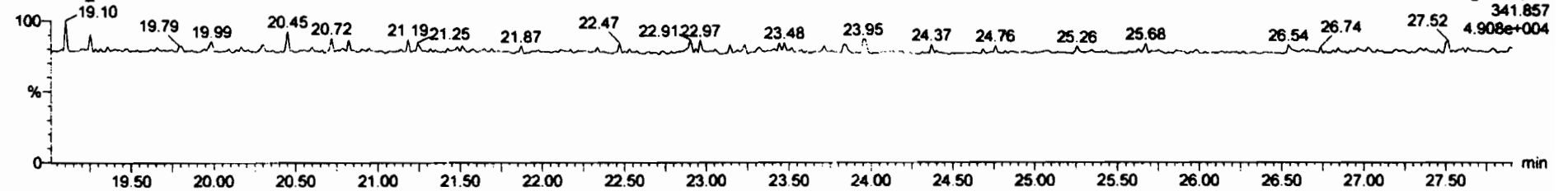
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1st Func. Penta-Furans

200130R2_3

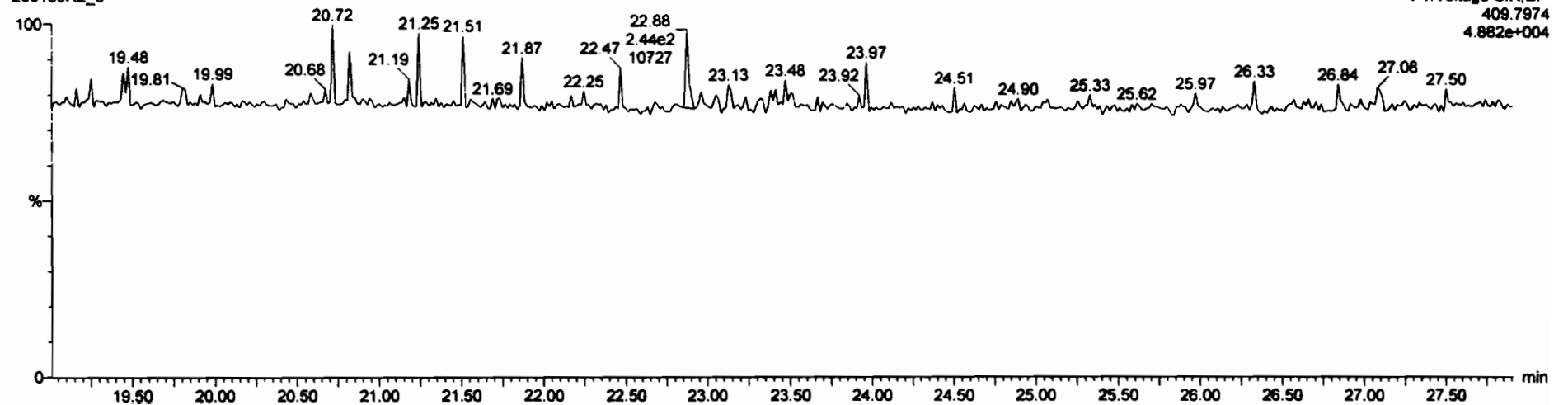


200130R2_3



DPE6

200130R2_3



Dataset: Untitled

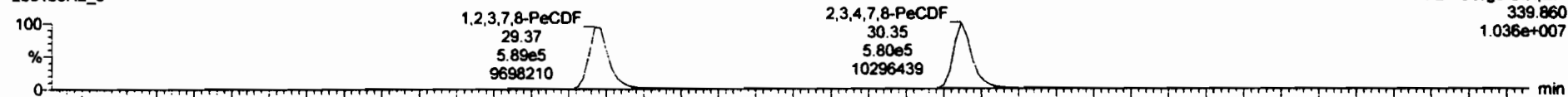
Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

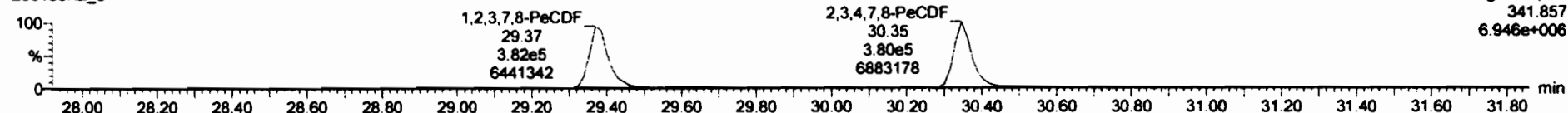
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1,2,3,7,8-PeCDF

200130R2_3

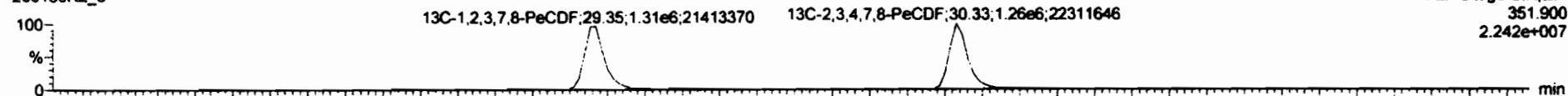


200130R2_3

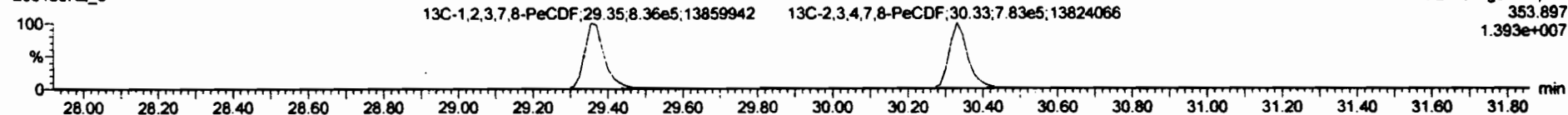


13C-1,2,3,7,8-PeCDF

200130R2_3

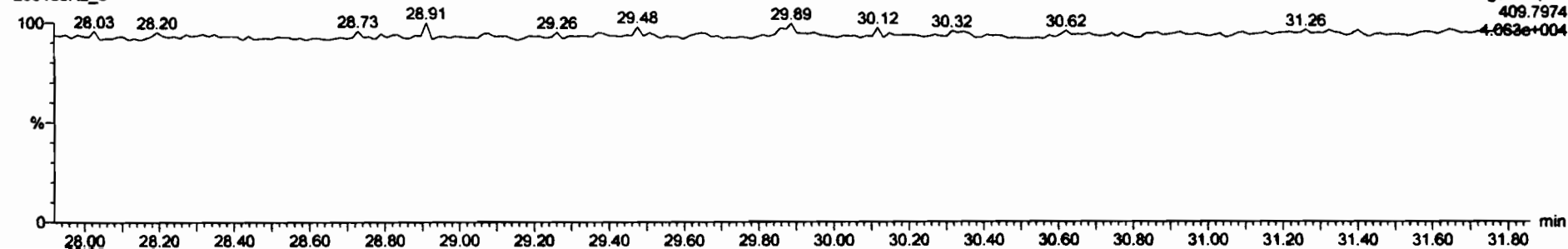


200130R2_3



DPE2

200130R2_3



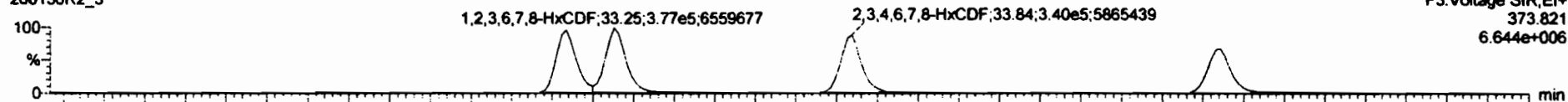
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Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time
Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

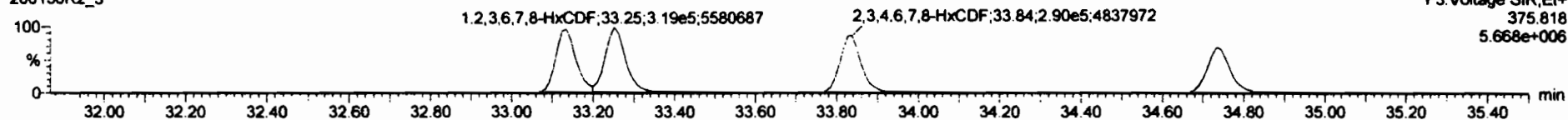
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1,2,3,4,7,8-HxCDF

200130R2_3

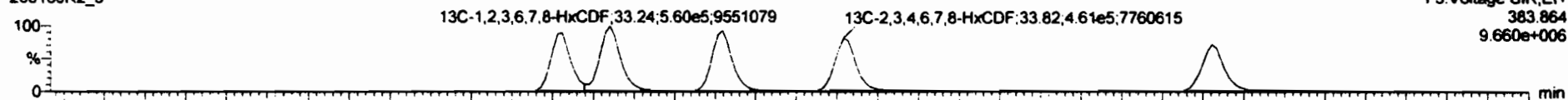


200130R2_3

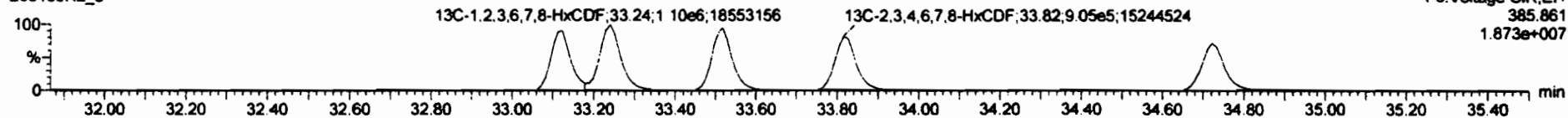


13C-1,2,3,4,7,8-HxCDF

200130R2_3

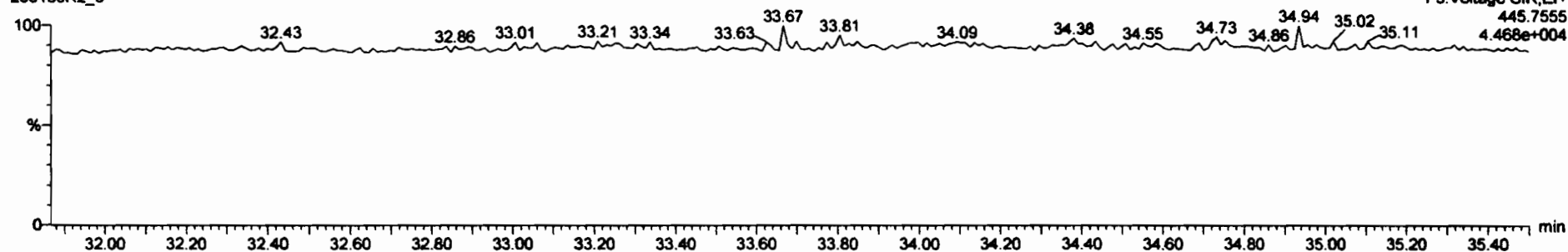


200130R2_3



DPE3

200130R2_3



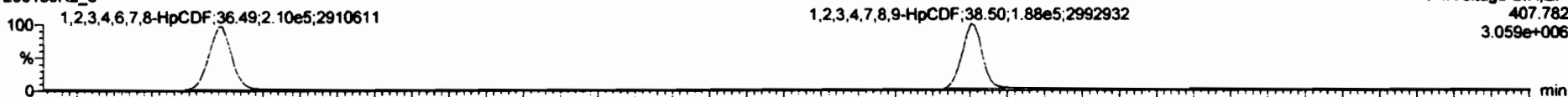
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Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time
Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

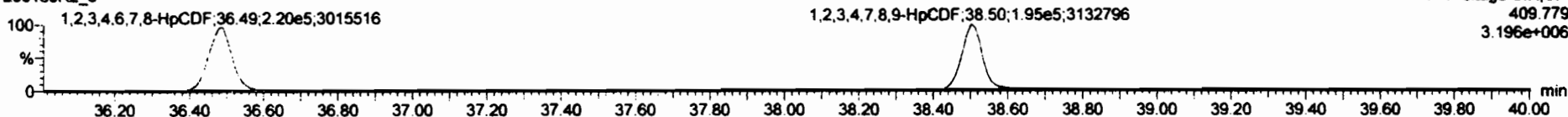
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1,2,3,4,6,7,8-HpCDF

200130R2_3

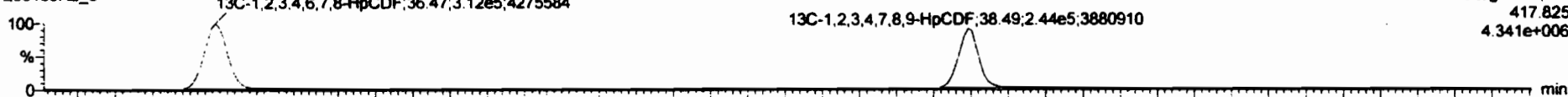


200130R2_3

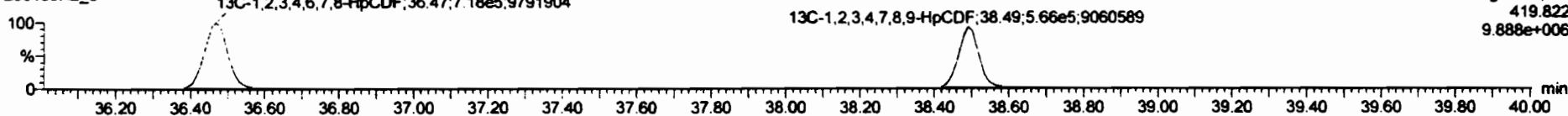


13C-1,2,3,4,6,7,8-HpCDF

200130R2_3

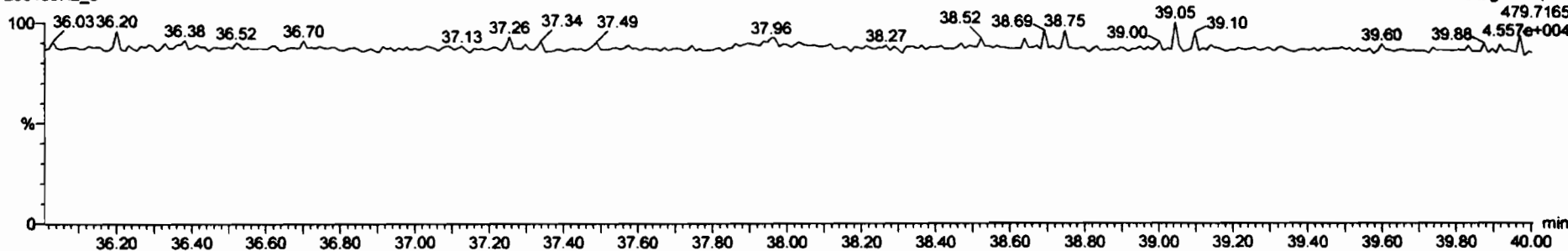


200130R2_3



DPE4

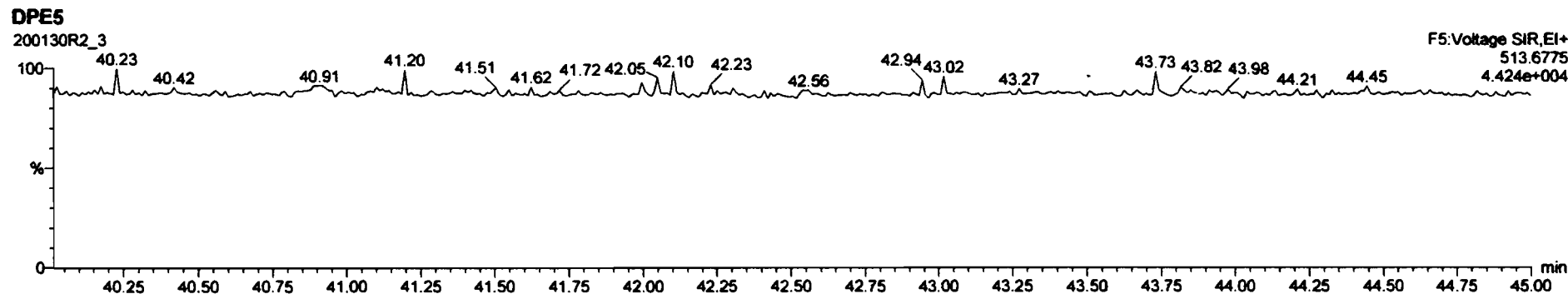
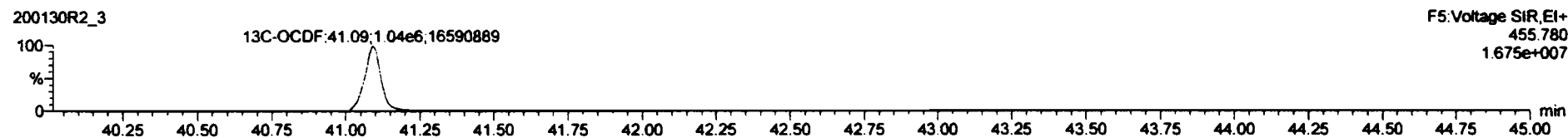
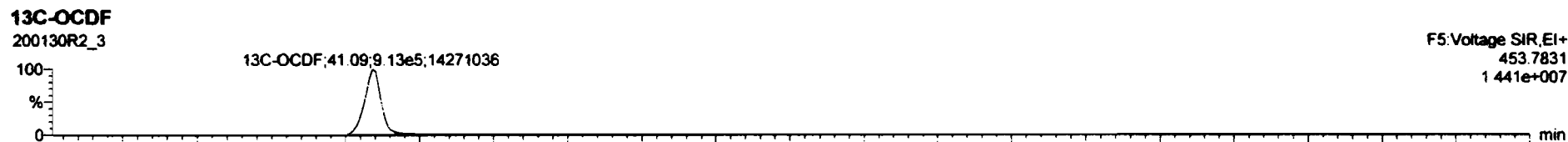
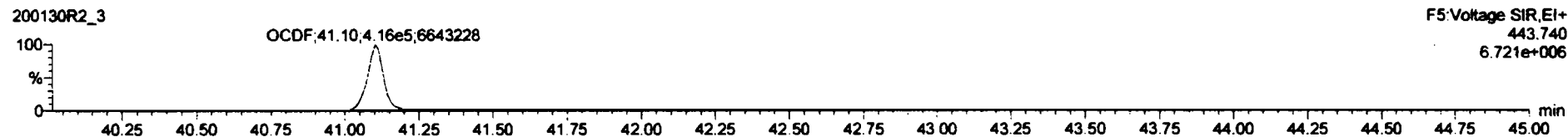
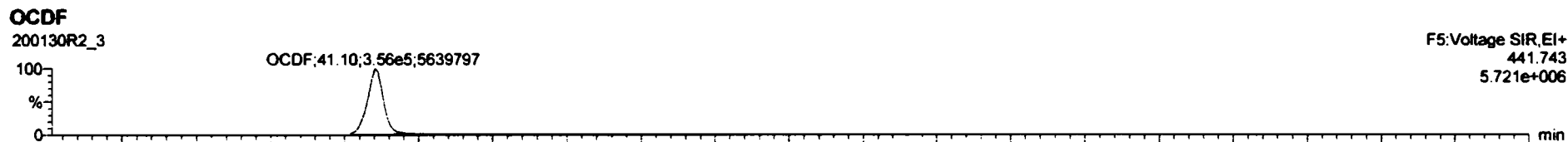
200130R2_3



Dataset: Untitled

Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time
Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_3, Date: 30-Jan-2020, Time: 16:00:38, ID: B0A0016-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200130R2\200130R2-11.qld

Last Altered: Tuesday, February 04, 2020 12:20:33 Pacific Standard Time

Printed: Tuesday, February 04, 2020 12:23:10 Pacific Standard Time

8/02/04/2020
~~8/02/03/~~

CT 02/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R2_11, Date: 30-Jan-2020, Time: 22:16:27, ID: 1903647-01 PDI-045SC-B-04-06-191010 10.99, Description: PDI-045SC-B-04-06-191010

#	Name	Abs.Resp	RA	n/y	RRF	wt./Vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.824	10.052	25.74		1.00		NO			0.0799	
2	2 1,2,3,7,8-PeCDD				0.912	10.052	30.66		1.00		NO			0.0753	
3	3 1,2,3,4,7,8-HxCDD				0.870	10.052	34.00		1.00		NO			0.0853	
4	4 1,2,3,6,7,8-HxCDD				0.784	10.052	34.08		1.00		NO			0.0891	
5	5 1,2,3,7,8,9-HxCDD				0.798	10.052	34.39		1.00		NO			0.0869	
6	6 1,2,3,4,6,7,8-HpCDD	2324.285	1.007	NO	0.737	10.052	37.91	37.92	1.00	1.00	NO	0.7973		0.122	0.7973
7	7 OCDD	21529.375	0.892	NO	0.800	10.052	40.90	40.91	1.00	1.00	NO	8.786		0.116	8.786
8	8 2,3,7,8-TCDF	699.895	0.530	YES	0.588	10.052	24.85	24.88	1.00	1.00	NO	0.1760		0.0923	0.1402
9	9 1,2,3,7,8-PeCDF	764.644	1.468	NO	0.826	10.052	29.38	29.37	1.00	1.00	NO	0.1404		0.0604	0.1404
10	10 2,3,4,7,8-PeCDF	498.208	1.468	NO	0.850	10.052	30.36	30.35	1.00	1.00	NO	0.09117		0.0624	0.09117
11	11 1,2,3,4,7,8-HxCDF	957.559	1.254	NO	0.787	10.052	33.11	33.14	1.00	1.00	NO	0.2678		0.0648	0.2678
12	12 1,2,3,6,7,8-HxCDF	404.207	1.403	NO	0.720	10.052	33.24	33.25	1.00	1.00	NO	0.1089		0.0652	0.1089
13	13 2,3,4,6,7,8-HxCDF				0.766	10.052	33.85		1.00		NO			0.0712	
14	14 1,2,3,7,8,9-HxCDF				0.709	10.052	34.72		1.00		NO			0.0986	
15	15 1,2,3,4,6,7,8-HpCDF	612.369	0.825	YES	0.732	10.052	36.49	36.49	1.00	1.00	NO	0.2404		0.123	0.2212
16	16 1,2,3,4,7,8,9-HpCDF				0.816	10.052	38.48		1.00		NO			0.120	
17	17 OCDF	1030.979	0.789	NO	0.639	10.052	41.09	41.11	1.00	1.00	NO	0.4801		0.110	0.4801
18	18 13C-2,3,7,8-TCDD	1013305.6...	0.779	NO	1.12	10.052	25.71	25.70	1.03	1.03	NO	197.2	99.1	0.235	
19	19 13C-1,2,3,7,8-PeCDD	903565.626	0.642	NO	0.841	10.052	30.45	30.64	1.22	1.22	NO	233.2	117	0.279	
20	20 13C-1,2,3,4,7,8-HxCDD	804709.344	1.264	NO	0.938	10.052	33.98	33.99	1.01	1.01	NO	174.7	87.8	0.336	
21	21 13C-1,2,3,6,7,8-HxCDD	875060.406	1.274	NO	1.07	10.052	34.08	34.08	1.02	1.02	NO	167.3	84.1	0.296	
22	22 13C-1,2,3,7,8,9-HxCDD	899775.063	1.239	NO	1.03	10.052	34.38	34.36	1.03	1.03	NO	177.8	89.4	0.306	
23	23 13C-1,2,3,4,6,7,8-HpCDD	787123.344	1.044	NO	0.710	10.052	37.93	37.90	1.13	1.13	NO	225.8	113	0.662	
24	24 13C-OCDD	1218895.3...	0.898	NO	0.601	10.052	40.81	40.90	1.22	1.22	NO	413.0	104	0.408	
25	25 13C-2,3,7,8-TCDF	1345866.0...	0.784	NO	1.04	10.052	24.89	24.82	0.99	0.99	NO	175.6	88.2	0.296	
26	26 13C-1,2,3,7,8-PeCDF	1312058.4...	1.601	NO	0.917	10.052	29.22	29.35	1.17	1.17	NO	193.5	97.3	0.442	
27	27 13C-2,3,4,7,8-PeCDF	1279449.3...	1.556	NO	0.903	10.052	30.17	30.33	1.20	1.21	NO	191.7	96.3	0.449	
28	28 13C-1,2,3,4,7,8-HxCDF	904356.250	0.510	NO	0.861	10.052	33.11	33.11	0.99	0.99	NO	213.8	107	0.620	
29	29 13C-1,2,3,6,7,8-HxCDF	1025188.7...	0.516	NO	1.05	10.052	33.21	33.23	0.99	0.99	NO	199.5	100	0.510	
30	30 13C-2,3,4,6,7,8-HxCDF	877356.469	0.510	NO	0.946	10.052	33.81	33.82	1.01	1.01	NO	188.9	95.0	0.565	

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-11.qld

Last Altered: Tuesday, February 04, 2020 12:20:33 Pacific Standard Time

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Name: 200130R2_11, Date: 30-Jan-2020, Time: 22:16:27, ID: 1903647-01 PDI-045SC-B-04-06-191010 10.99, Description: PDI-045SC-B-04-06-191010

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	785349.500	0.511	NO	0.816	10.052	34.71	34.72	1.04	1.04	NO	196.1	98.6	0.655	
32	32 13C-1,2,3,4,6,7,8-HpCDF	668383.313	0.439	NO	0.589	10.052	36.46	36.46	1.09	1.09	NO	231.0	116	0.726	
33	33 13C-1,2,3,4,7,8,9-HpCDF	525646.282	0.424	NO	0.448	10.052	38.47	38.48	1.15	1.15	NO	239.0	120	0.955	
34	34 13C-OCDF	1337847.4...	0.861	NO	0.586	10.052	41.05	41.09	1.23	1.23	NO	465.2	117	0.455	
35	35 37Cl-2,3,7,8-TCDD	413405.906			1.09	10.052	25.74	25.72	1.03	1.03	NO	82.67	104	0.0545	
36	36 13C-1,2,3,4-TCDD	916486.094	0.804	NO	1.00	10.052	25.08	25.06	1.00	1.00	NO	199.0	100	0.263	
37	37 13C-1,2,3,4-TCDF	1471378.5...	0.798	NO	1.00	10.052	23.42	23.42	1.00	1.00	NO	199.0	100	0.307	
38	38 13C-1,2,3,4,6,9-HxCDF	977022.813	0.508	NO	1.00	10.052	33.52	33.51	1.00	1.00	NO	199.0	100	0.534	
39	39 Total Tetra-Dioxins				0.824	10.052	24.62		0.00		NO			0.0424	
40	40 Total Penta-Dioxins				0.912	10.052	29.96		0.00		NO			0.0315	
41	41 Total Hexa-Dioxins				0.784	10.052	33.63		0.00		NO	0.0000		0.0480	0.1763
42	42 Total Hepta-Dioxins				0.737	10.052	37.64		0.00		NO	1.694		0.122	1.694
43	43 Total Tetra-Furans				0.588	10.052	23.61		0.00		NO	0.0000		0.0439	0.1402
44	44 1st Func. Penta-Furans				0.826	10.052	27.09		0.00		NO			0.0191	
45	45 Total Penta-Furans				0.826	10.052	29.27		0.00		NO	0.3451		0.0623	0.3612
46	46 Total Hexa-Furans				0.766	10.052	33.56		0.00		NO	0.5071		0.0715	0.5071
47	47 Total Hepta-Furans				0.732	10.052	37.83		0.00		NO	0.0000		0.0658	0.5248

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Dataset: U:\VG12.PRO\Results\200130R2\200130R2-11.qld

Last Altered: Tuesday, February 04, 2020 12:20:33 Pacific Standard Time

Printed: Tuesday, February 04, 2020 12:21:36 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_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R2_11, Date: 30-Jan-2020, Time: 22:16:27, ID: 1903647-01 PDI-045SC-B-04-06-191010 10.99, Description: PDI-045SC-B-04-06-191010

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.525	YES	33.63	32.50	0.0000	0.1763

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.32e3	7.87e5	1.007	NO	37.91	37.92	0.7973	0.7973
2	42 Total Hepta-Dioxins	2.61e3	7.87e5	0.895	NO	37.64	36.85	0.8969	0.8969

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	8 2,3,7,8-TCDF	7.00e2	1.35e6	0.530	YES	24.85	24.88	0.0000	0.1402

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-11.qld

Last Altered: Tuesday, February 04, 2020 12:20:33 Pacific Standard Time

Printed: Tuesday, February 04, 2020 12:21:36 Pacific Standard Time

Name: 200130R2_11, Date: 30-Jan-2020, Time: 22:16:27, ID: 1903647-01 PDI-045SC-B-04-06-191010 10.99, Description: PDI-045SC-B-04-06-191010

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	4.98e2	1.28e6	1.468	NO	30.36	30.35	0.09117	0.09117
2	9 1,2,3,7,8-PeCDF	7.65e2	1.31e6	1.468	NO	29.38	29.37	0.1404	0.1404
3	45 Total Penta-Furans	6.11e2	0.00e0	1.618	NO	29.27	28.39	0.1136	0.1136
4	45 Total Penta-Furans	0.00e0	0.00e0	0.738	YES	29.27	30.39	0.0000	0.01609

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	12 1,2,3,6,7,8-HxCDF	4.04e2	1.03e6	1.403	NO	33.24	33.25	0.1089	0.1089
2	11 1,2,3,4,7,8-HxCDF	9.58e2	9.04e5	1.254	NO	33.11	33.14	0.2678	0.2678
3	46 Total Hexa-Furans	4.51e2	0.00e0	1.166	NO	33.56	32.67	0.1304	0.1304

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	47 Total Hepta-Furans	0.00e0	0.00e0	1.202	YES	37.83	37.11	0.0000	0.3036
2	15 1,2,3,4,6,7,8-HpCDF	6.13e2	6.68e5	0.825	YES	36.49	36.49	0.0000	0.2212

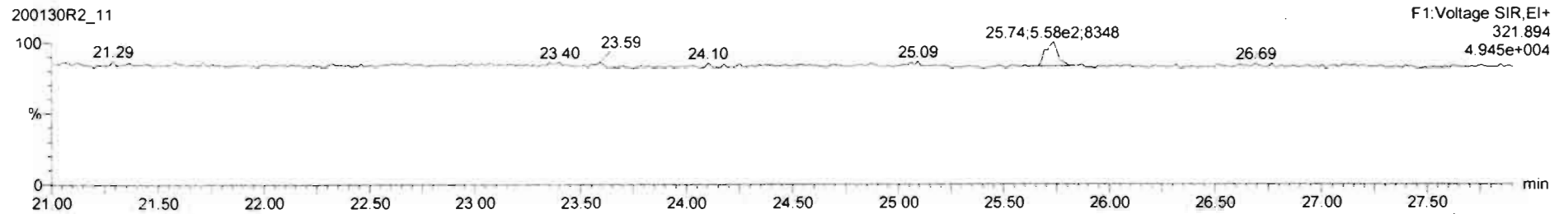
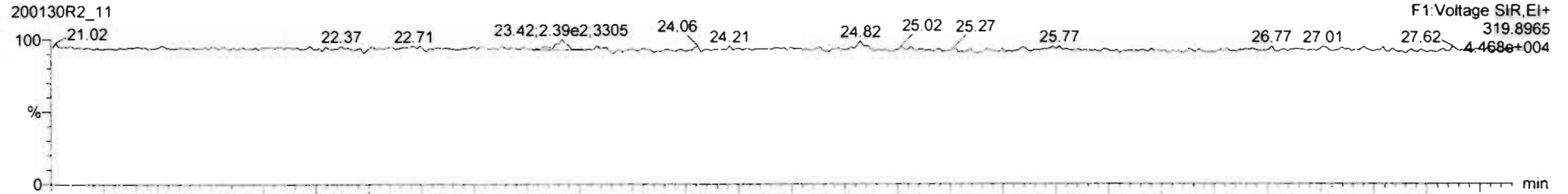
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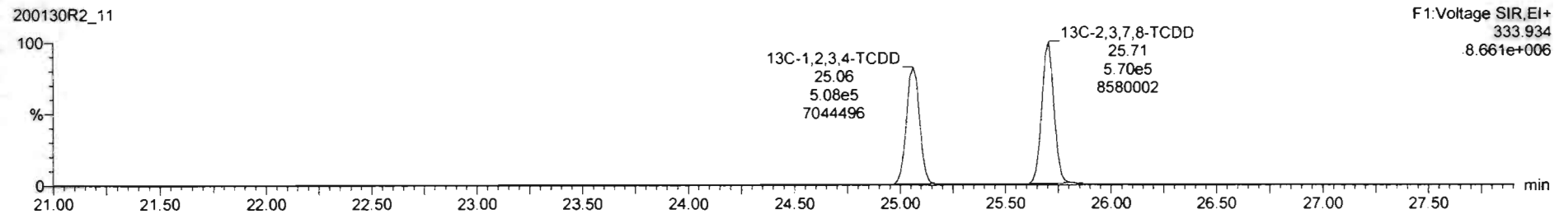
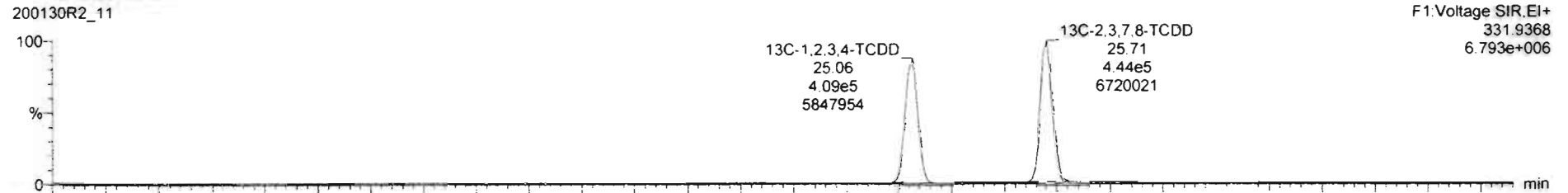
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Name: 200130R2_11, Date: 30-Jan-2020, Time: 22:16:27, ID: 1903647-01 PDI-045SC-B-04-06-191010 10.99, Description: PDI-045SC-B-04-06-191010

2,3,7,8-TCDD



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



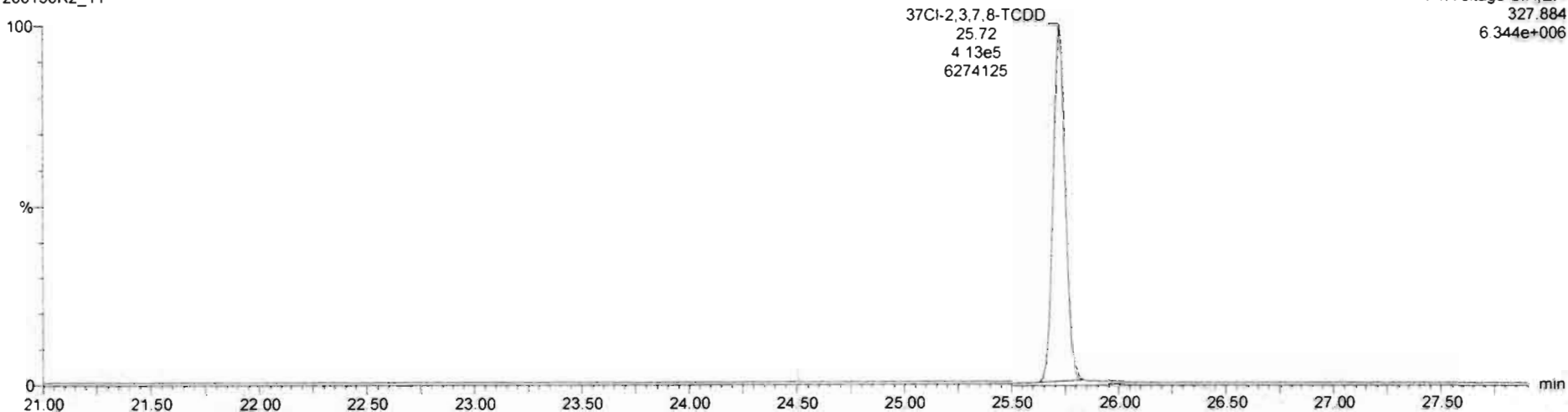
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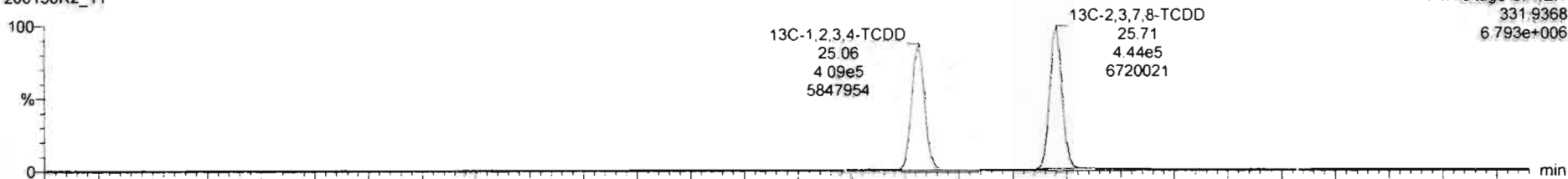
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200130R2_11

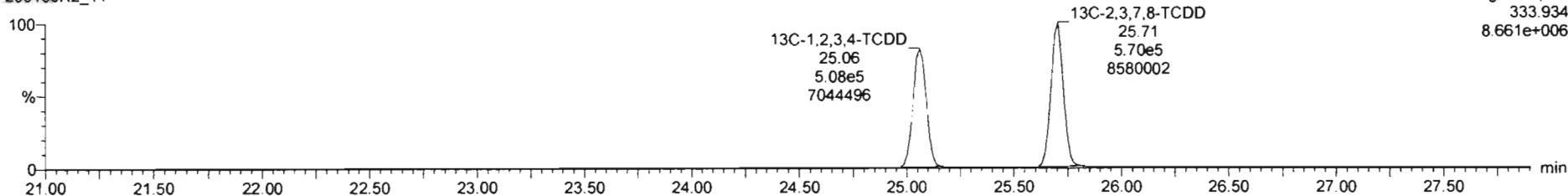


13C-1,2,3,4-TCDD

200130R2_11



200130R2_11



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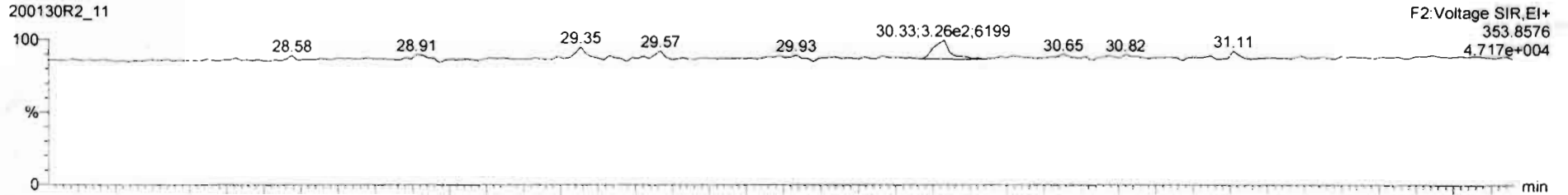
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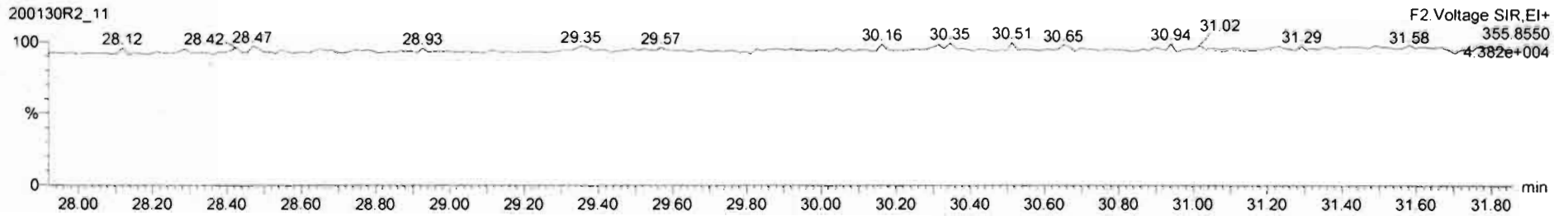
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1,2,3,7,8-PeCDD

200130R2_11

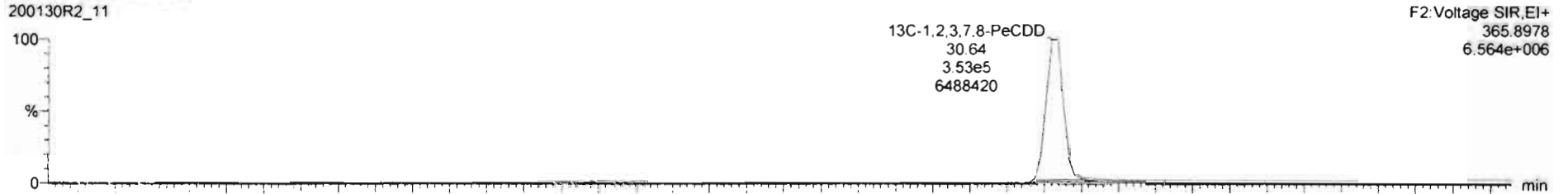


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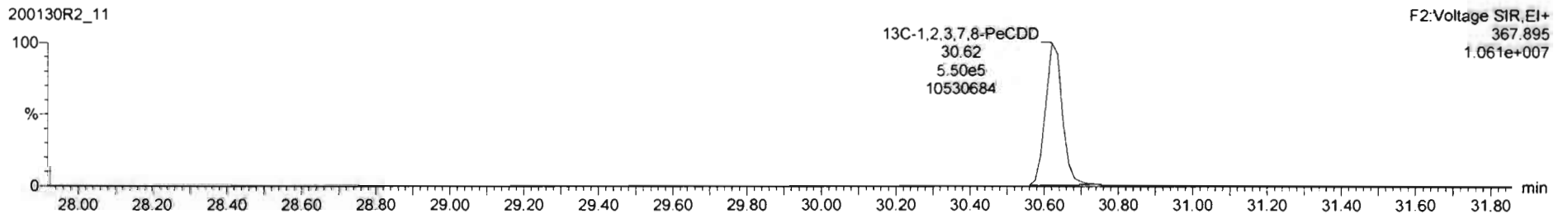


13C-1,2,3,7,8-PeCDD

200130R2_11



200130R2_11



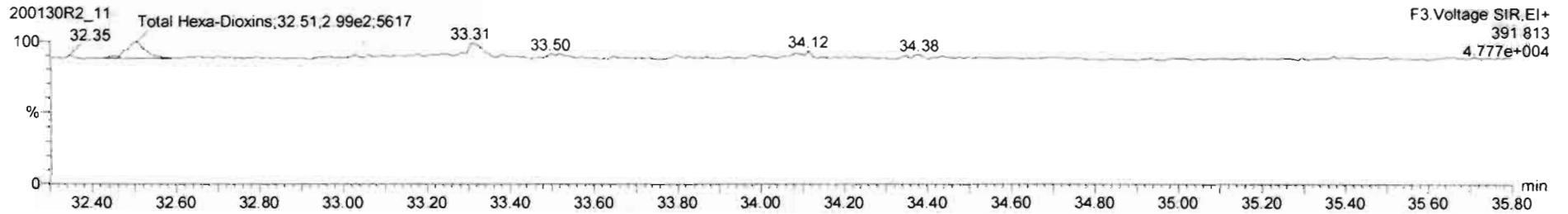
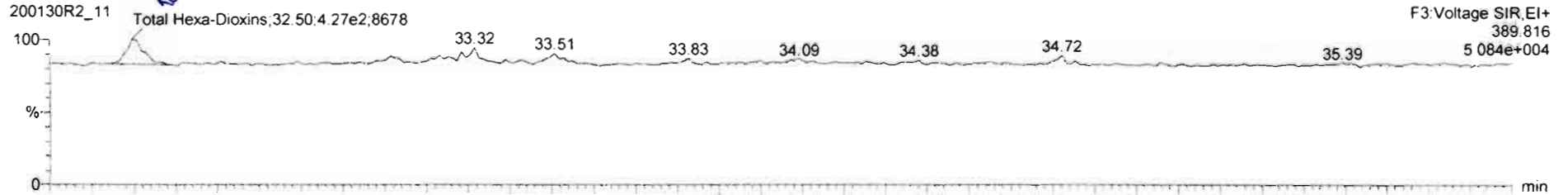
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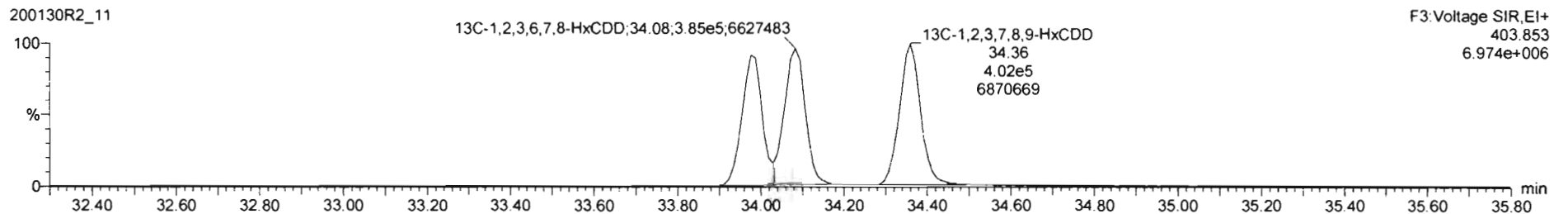
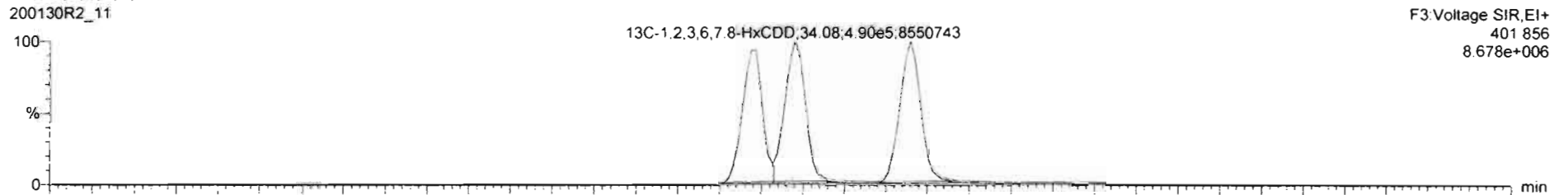
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1,2,3,4,7,8-HxCDD

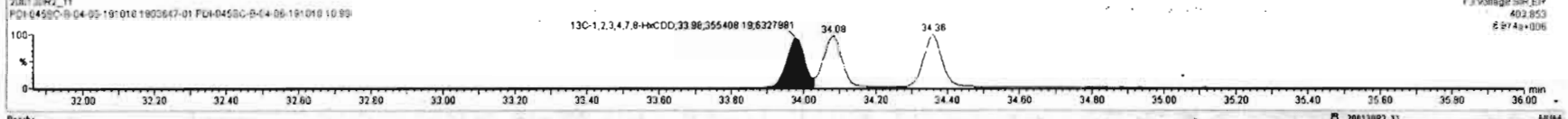
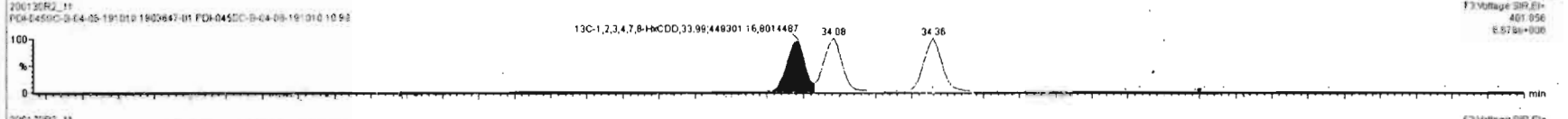
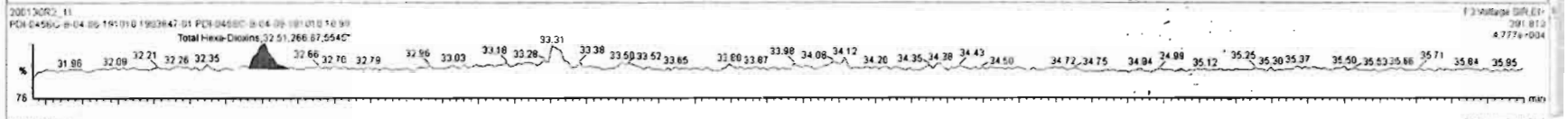
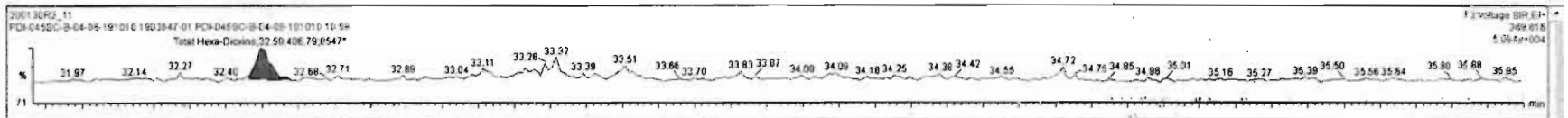


13C-1,2,3,4,7,8-HxCDD



#	Name	Resp	RA	n/y	RRT	wtAval	Pred RT	RT	Pred R	RRT	RRT Fat	Conc	%Inc	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.052	24.62		0.000		NO			0.0424	
40	Total Penta-Dioxins				0.9116	10.052	29.96		0.000		NO			0.0315	
41	Total Hexa-Dioxins				0.7841	10.052	33.63		0.000		NO	0.0000		0.0486	0.1977
42	Total Hepta-Dioxins				0.7368	10.052	37.04		0.000		NO	1.844		0.122	1.844
43	Total Tetra-Furans				0.5878	10.052	23.81		0.000		NO	0.1644		0.0823	0.1644
44	1st Func. Penta-Furans				0.8261	10.052	27.09		0.000		NO			0.0191	
45	Total Penta-Furans				0.8261	10.052	29.27		0.000		NO	0.2633		0.0823	0.3798
46	Total Hexa-Furans				0.7956	10.052	33.56		0.000		NO	0.3878		0.0716	0.3878
27	Total Hepta-Furans				0.7188	10.052	37.43		0.000		NO	0.7000		0.0858	0.6614

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc
1	41 Total Hexa-Dioxins	33.63	32.50	4.270e2	2.890e2	1.240	1.43	YES	0.19765	0.00000



Dataset: Untitled

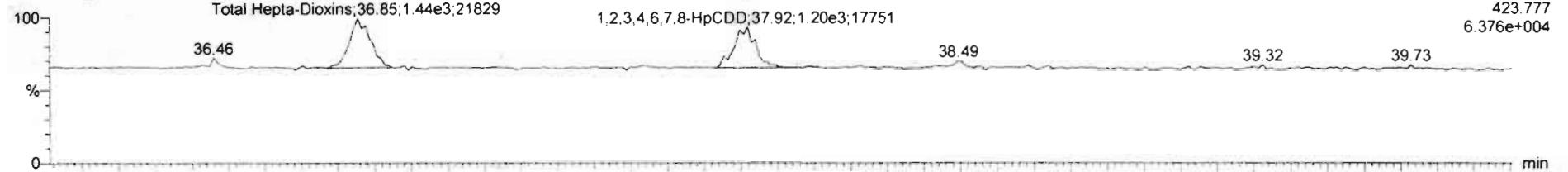
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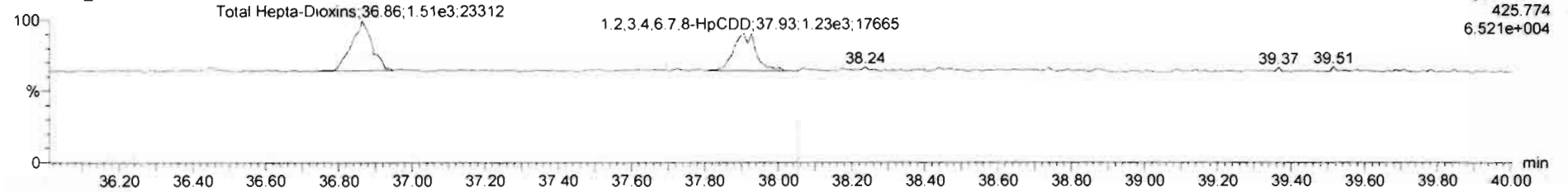
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1,2,3,4,6,7,8-HpCDD

200130R2_11

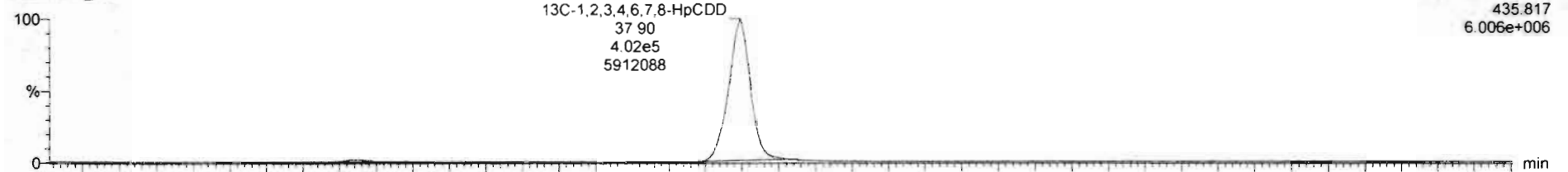


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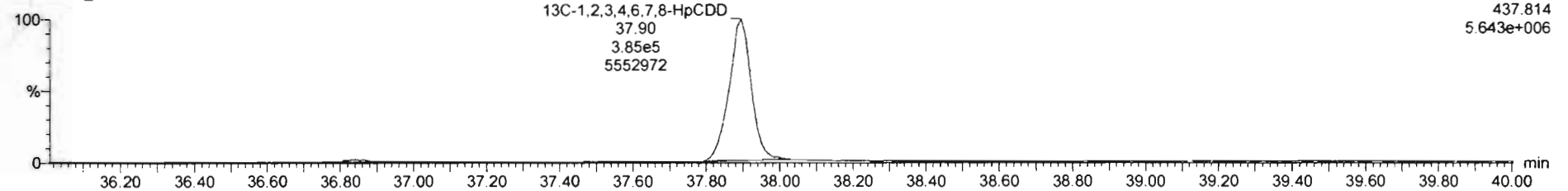


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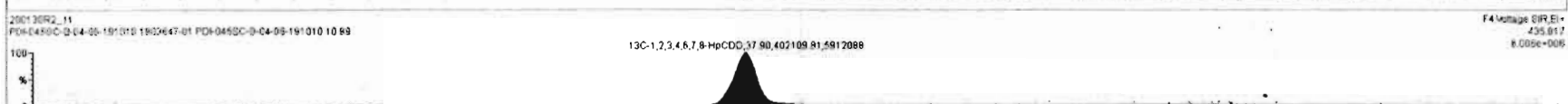
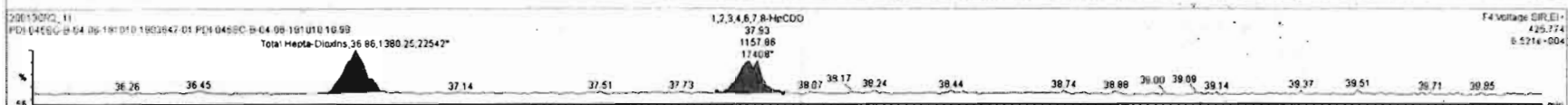
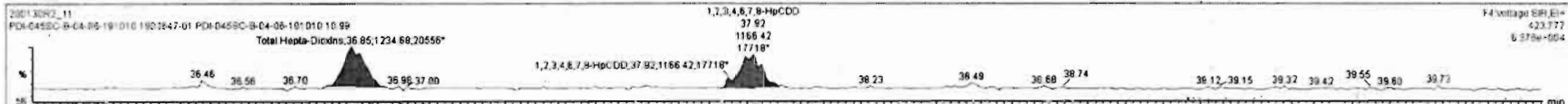


200130R2_11



#	Name	Resp	RA	n/y	RRF	ndVd	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.052	24.62		0.000		NO			0.0424	
40	Total Penta-Dioxins				0.9115	10.052	29.96		0.000		NO			0.0315	
41	Total Hexa-Dioxins				0.7941	10.052	33.63		0.000		NO	0.0000		0.0490	0.1763
42	Total Hepta-Dioxins				0.7399	10.052	37.54		0.000		NO	1.844		0.122	1.844
43	Total Tetra-Furans				0.5978	10.052	23.61		0.000		NO	0.1644		0.0223	0.1644
44	Total Penta-Furans				0.8261	10.052	27.98		0.000		NO			0.0191	
45	Total Hexa-Furans				0.8261	10.052	29.27		0.000		NO	0.2633		0.0623	0.3798
46	Total Hepta-Furans				0.7665	10.052	33.56		0.000		NO	0.3878		0.0715	0.3878
47	Total Octa-Furans				0.7764	10.052	37.87		0.000		NO	0.0000		0.0668	0.6644

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDD	37.91	37.92	1.195e3	1.233e3	1.040	0.97	NO	0.83298	0.83298
2	42 Total Hepta-Dioxins	37.64	36.85	1.437e3	1.510e3	1.040	0.95	NO	1.0111	1.0111

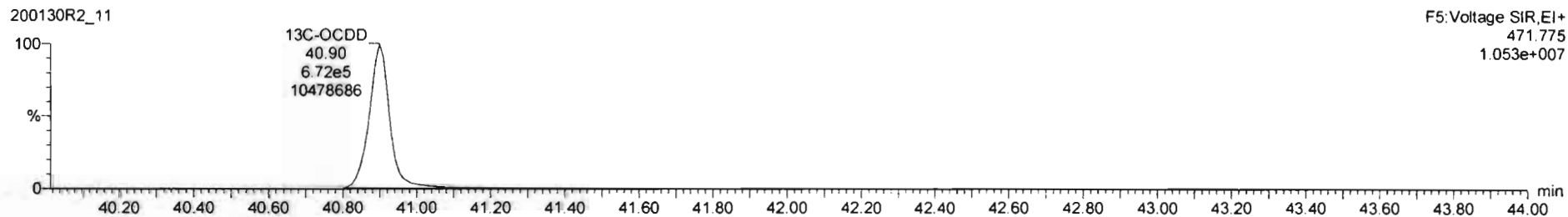
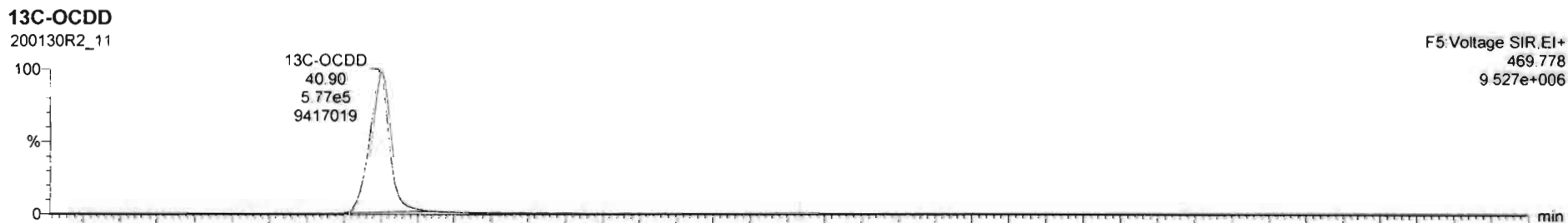
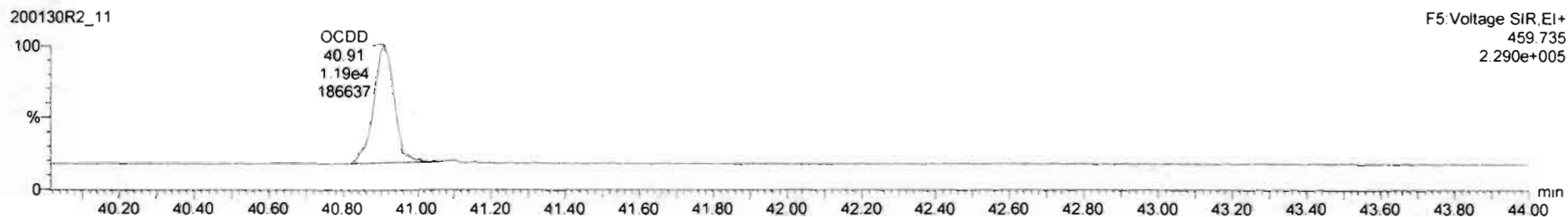
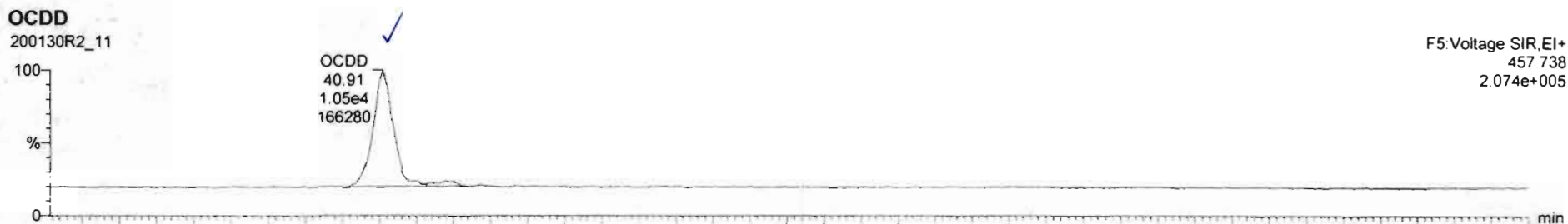


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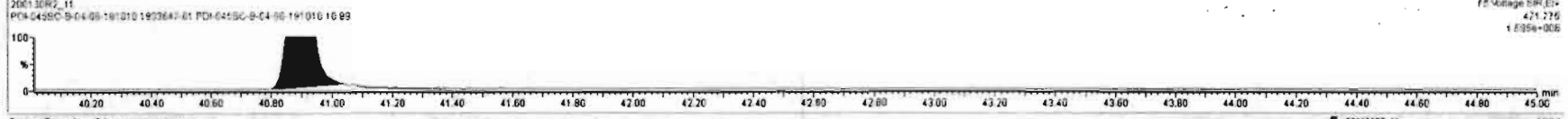
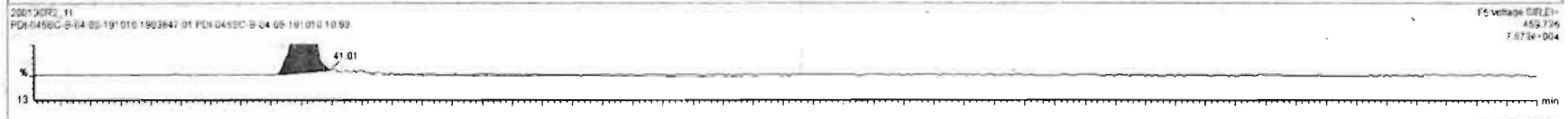
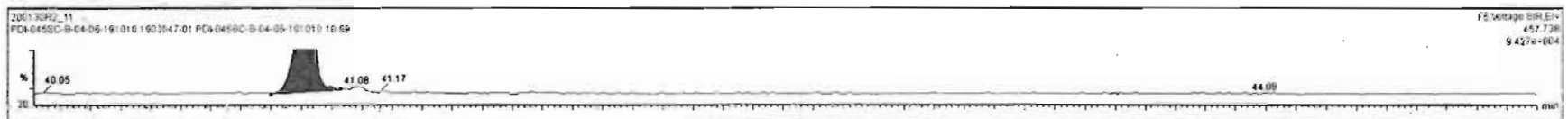
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#	Name	Resp	RA	nY	RRF	WtVol	Pred RT	RT	Pred R	RRT	RRT Tol	Conc	%Rec	DL	EMPC
7	OCDD	2.24e4	0.89	NO	0.8000	10.052	40.80	40.91	1.000	1.000	NO	8.915		0.112	0.815
8	1,2,3,7,8-PCDF				0.5876	10.052	24.85		1.001		NO			0.0223	
9	1,2,3,7,8-PeCDF	7.78e2	1.41	NO	0.8261	10.052	29.36	29.37	1.001	1.000	NO	0.1428		0.0604	0.1430
10	2,3,4,7,8-PeCDF	6.58e2	1.47	NO	0.8498	10.052	30.36	30.35	1.001	1.000	NO	0.1205		0.0524	0.1200
11	1,2,3,4,7,8-HxCDF	9.21e2	1.35	NO	0.7886	10.052	33.11	33.13	1.000	1.001	NO	0.2575		0.0646	0.2570
12	1,2,3,6,7,8-HxCDF				0.7201	10.052	33.24		1.000		NO			0.0652	
13	2,3,4,6,7,8-HxCDF				0.7685	10.052	33.85		1.001		NO			0.0712	
14	1,2,3,7,8,9-HxCDF				0.7086	10.052	34.72		1.000		NO			0.0986	
142	1,2,3,4,6,7,8,9-HxCDF	8.83e2	0.88	YES	0.7316	10.052	35.20	35.25	1.001	1.001	NO	0.2656		0.1721	0.2650

#	Name	Pred RT	RT	n1 Resp	n2 Resp	1 st Ratio (Pred)	RA	nY	EMPC	Conc
1										

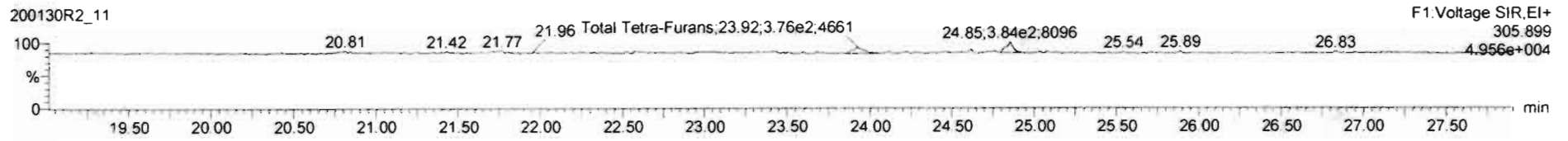
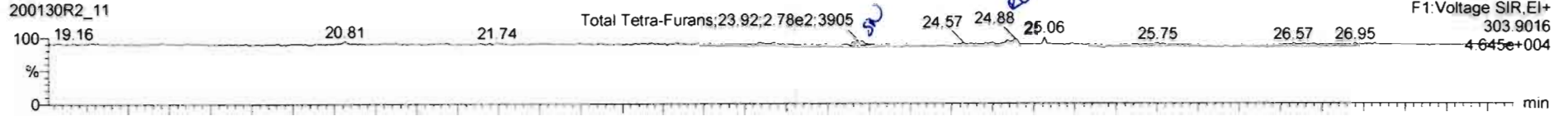


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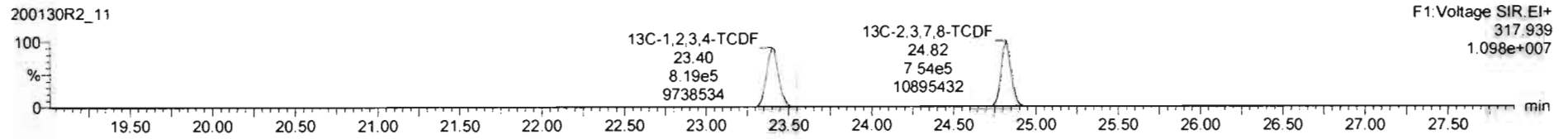
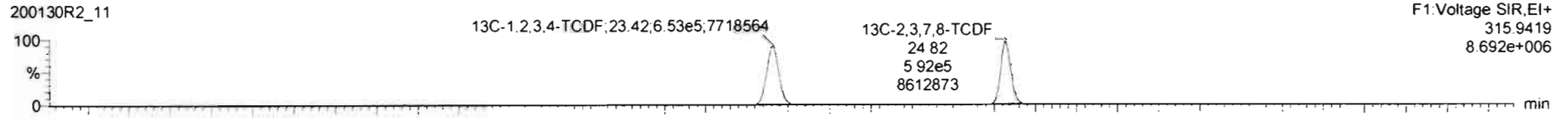
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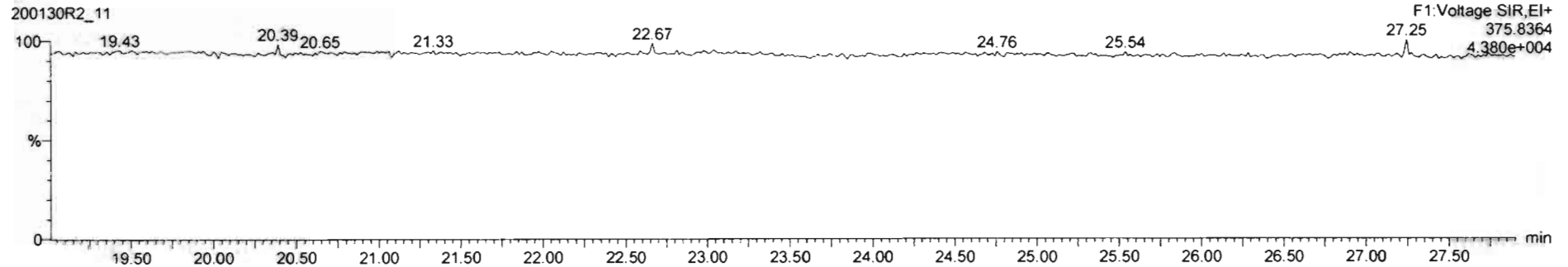
2,3,7,8-TCDF



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

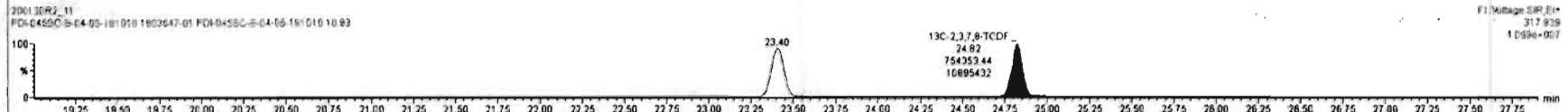
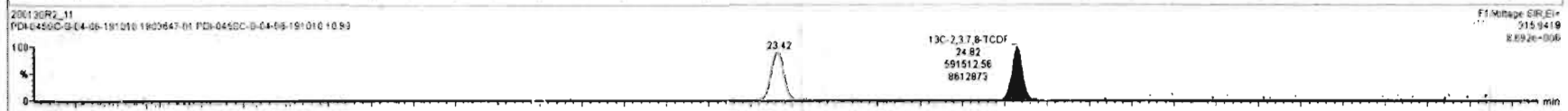
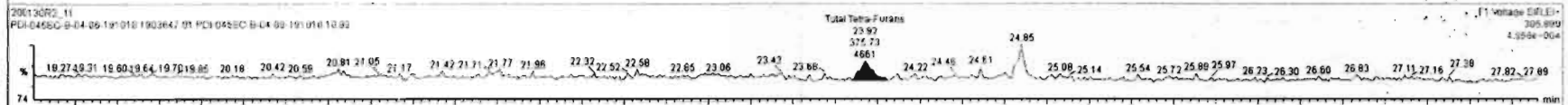
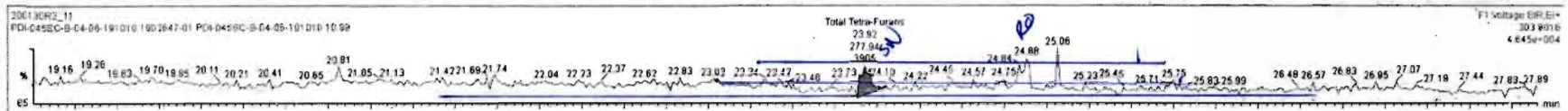


DPE1



#	Name	Resp	RA	n/y	RRF	wtMsk	Prod RT	RT	Prod E	RRT	RRT Fat	Conc.	%Rac	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.052	24.62		0.000		NO			0.0424	
40	Total Penta-Dioxins				0.9115	10.052	29.96		0.000		NO			0.0315	
41	Total Hexa-Dioxins				0.7841	10.052	33.63		0.000		NO	0.0000		0.0486	0.1783
42	Total Hepta-Dioxins				0.7369	10.052	37.64		0.000		NO	1.684		0.127	1.694
43	Total Tetra-Furans				0.5878	10.052	23.61		0.000		NO	0.1844		0.6923	0.1644
44	1st Func. Penta-Furans				0.8261	10.052	27.95		0.000		NO			0.0191	
45	Total Penta-Furans				0.8261	10.052	29.27		0.000		NO	0.2633		0.0523	0.3796
46	Total Hexa-Furans				0.7665	10.052	33.56		0.000		NO	0.3878		0.0715	0.3876
47	Total Hepta-Furans				0.7766	10.052	37.43		0.000		NO	0.7000		0.0658	0.6514

#	Name	Prod RT	RT	m1 Resp	m2 Resp	1 st Ratio (Prod)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	23.52	2.775e2	3.757e2	0.770	0.74	NO	0.16441	0.16441



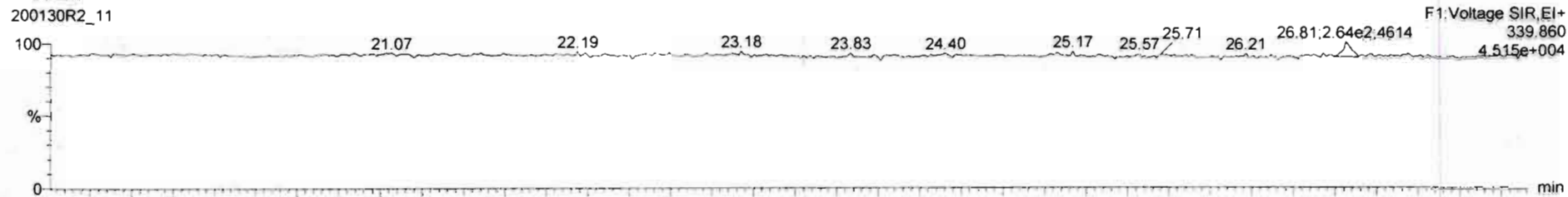
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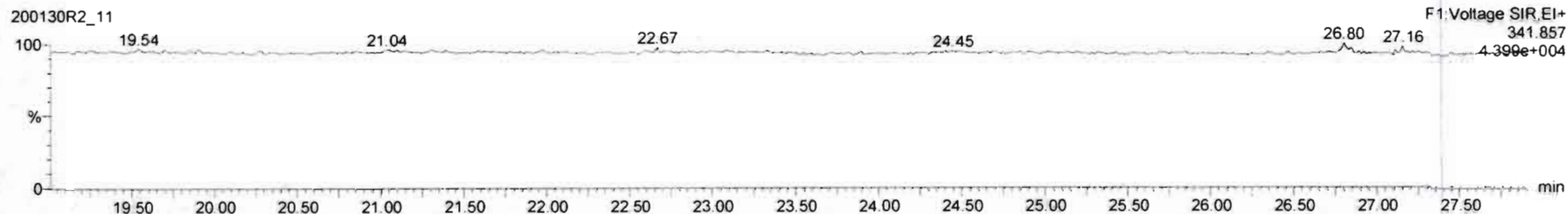
Name: 200130R2_11, Date: 30-Jan-2020, Time: 22:16:27, ID: 1903647-01 PDI-045SC-B-04-06-191010 10.99, Description: PDI-045SC-B-04-06-191010

1st Func. Penta-Furans

200130R2_11

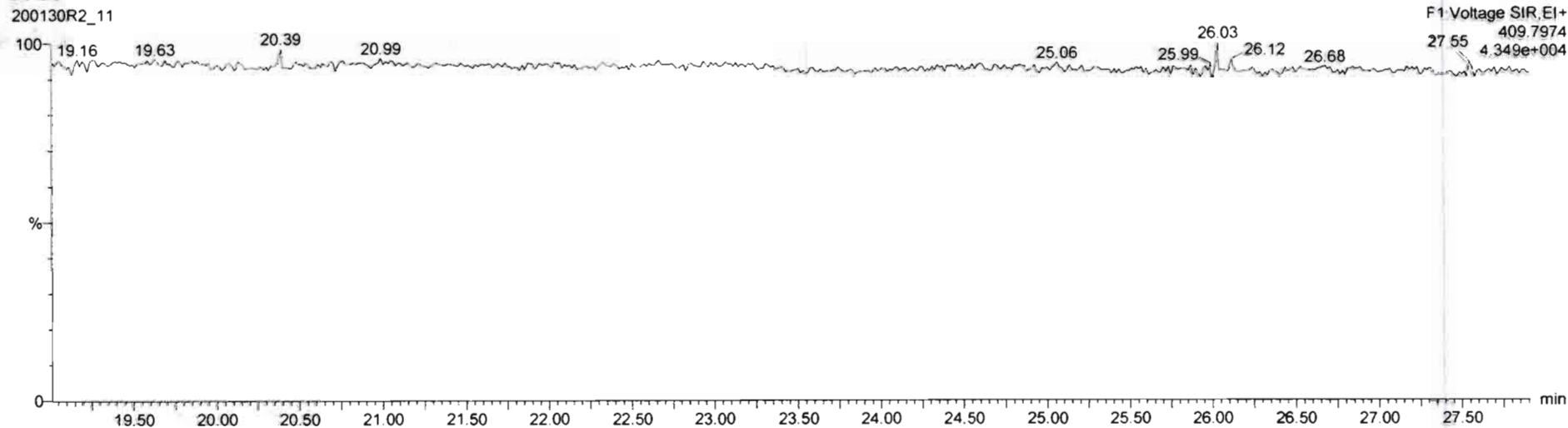


200130R2_11



DPE6

200130R2_11



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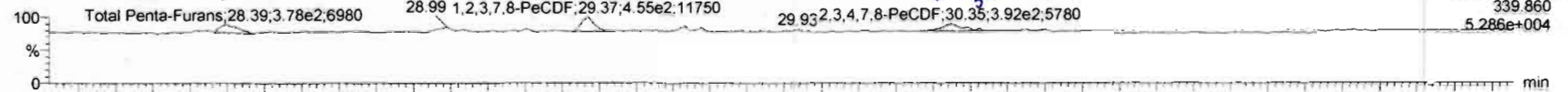
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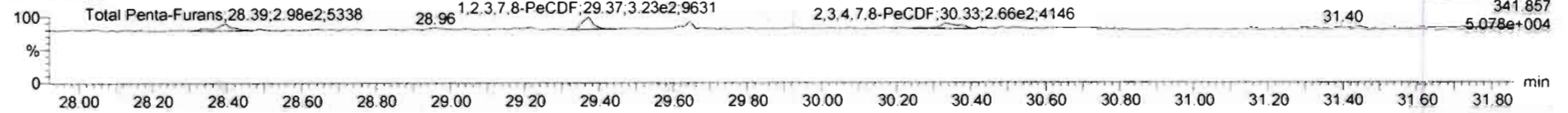
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1,2,3,7,8-PeCDF

200130R2_11

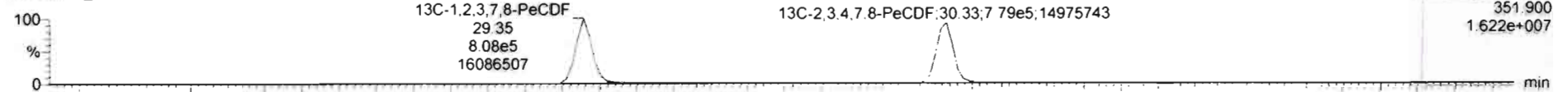


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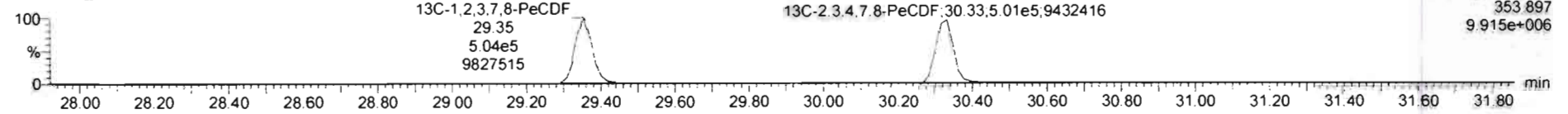


13C-1,2,3,7,8-PeCDF

200130R2_11

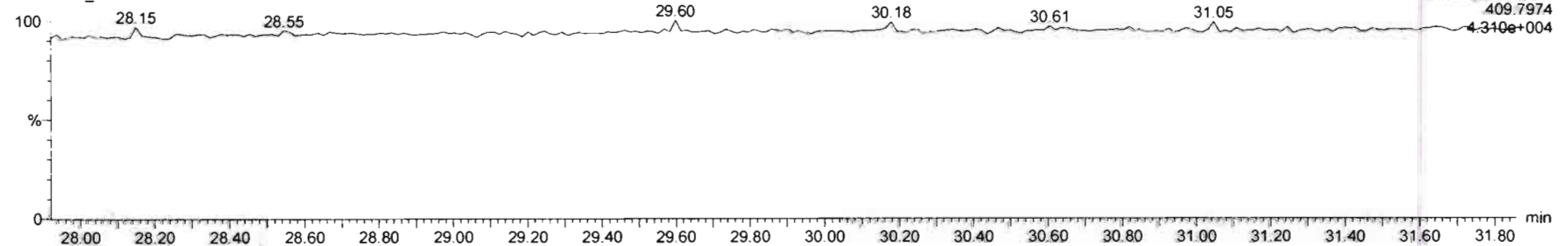


200130R2_11



DPE2

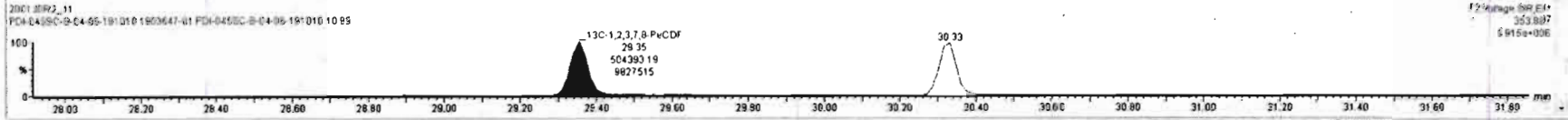
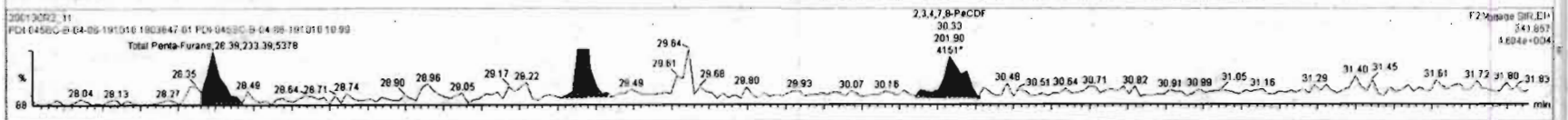
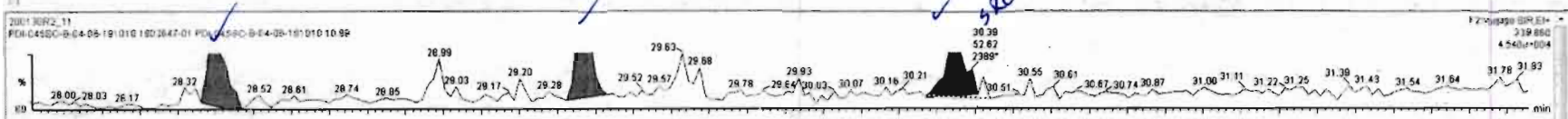
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#	Name	Resp	RA	n/y	RRF	wtAve	Pred RT	RT	Pred R	RRT	RRT Err	Conc	%Rec	CL	EMPC
39	Total Tetra-Dioxins				0.8240	10.052	24.52		0.000		NO			0.0424	
40	Total Penta-Dioxins				0.9116	10.052	29.96		0.000		NO			0.0215	
41	Total Hexa-Dioxins				0.7841	10.052	33.63		0.000		NO	0.0000		0.0490	0.1763
42	Total Hepta-Dioxins				0.7369	10.052	37.64		0.000		NO	1.084		0.122	1.804
43	Total Tetra-Furans				0.5878	10.052	23.81		0.000		NO	0.0000		0.0436	0.1402
44	1st Func. Penta-Furans				0.8261	10.052	27.09		0.000		NO			0.0191	
45	Total Penta-Furans				0.8281	10.052	29.27		0.000		NO	0.1404		0.0622	0.2030
46	Total Hexa-Furans				0.7665	10.052	33.56		0.000		NO	0.3678		0.0716	0.2878
47	Total Hepta-Furans				0.7314	10.052	37.81		0.000		NO	0.0001		0.0668	0.2244

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	1,2,3,7,8-PeCDF	29.38	29.37	4.548e2	3.098e2	1.550	1.47	NO	0.14037	0.14037
2	1,2,3,4,7,8-PeCDF	30.36	30.35	3.724e2	2.917e2	1.550	1.26	YES	0.11212	0.00000
3	4,5-Penta-Furans	29.27	29.29	3.775e2	2.334e2	1.550	1.63	NO	0.11356	0.00000

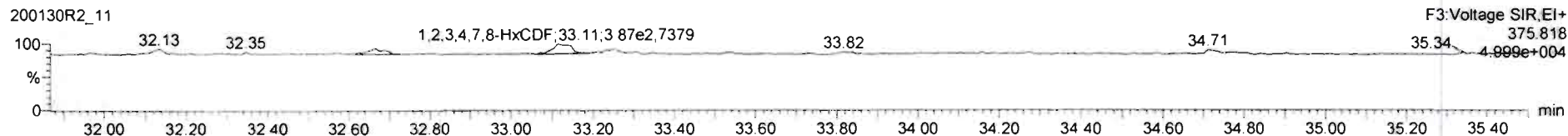
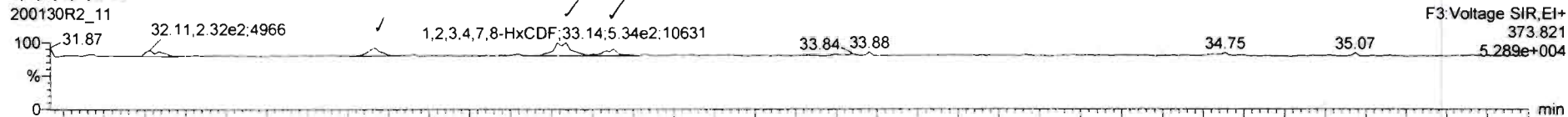


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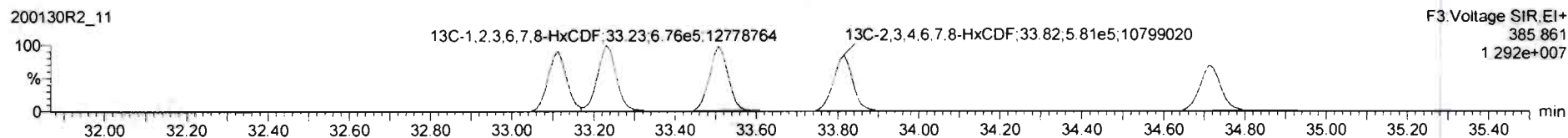
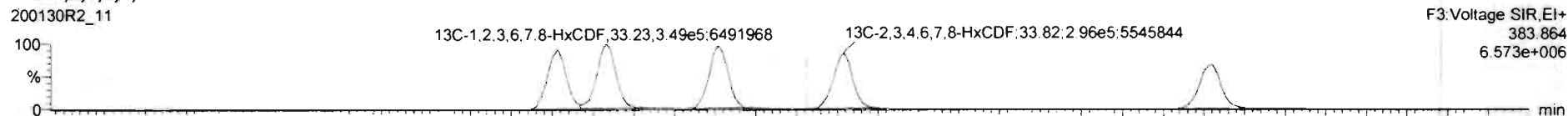
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Name: 200130R2_11, Date: 30-Jan-2020, Time: 22:16:27, ID: 1903647-01 PDI-045SC-B-04-06-191010 10.99, Description: PDI-045SC-B-04-06-191010

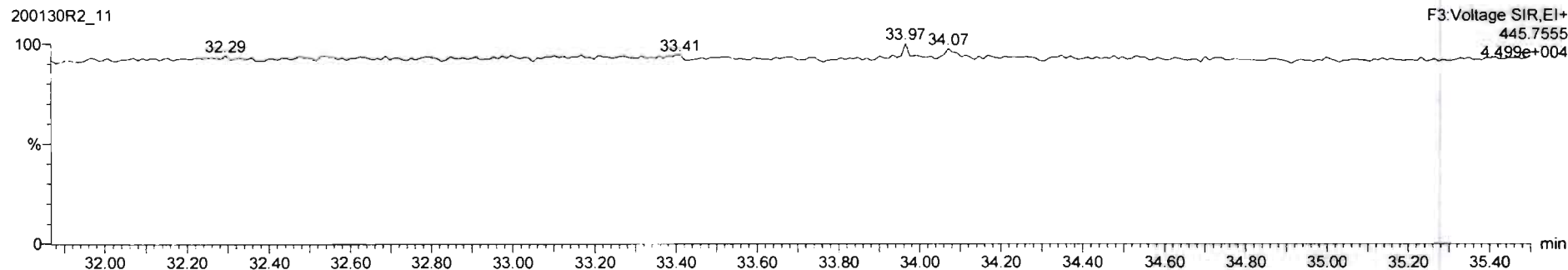
1,2,3,4,7,8-HxCDF



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



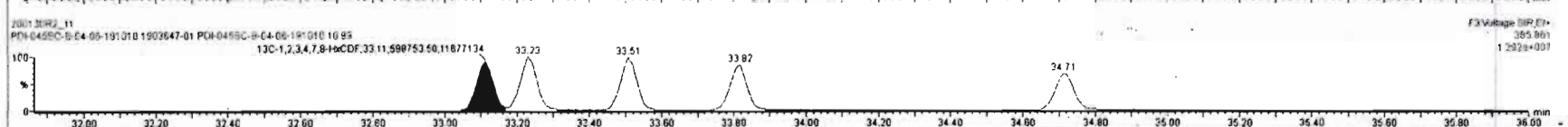
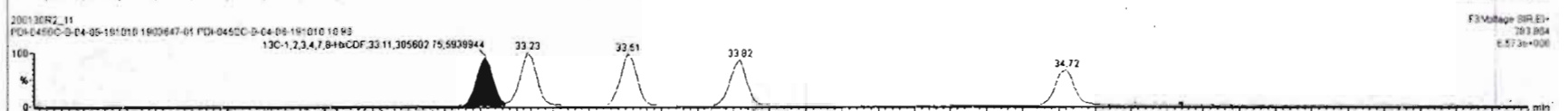
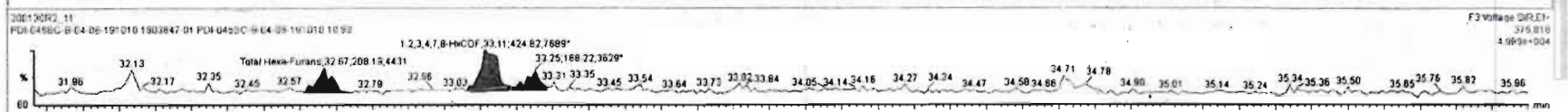
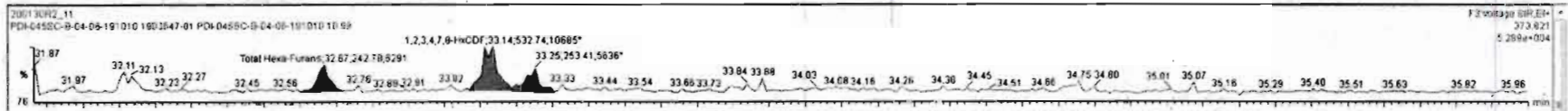
DPE3



200130R2-11: 1902647-01 PDI-0450C-B-04-05-191010 10 95

#	Name	Resp	RA	n/y	RRF	mVal	Pred RT	RT	Pred R	RRT	RRT Std	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.052	24.82		0.000		NO			0.0424	
40	Total Penta-Dioxins				0.9116	10.052	29.96		0.000		NO			0.0216	
41	Total Hexa-Dioxins				0.7841	10.052	33.83		0.000		NO	0.0000		0.0480	0.1763
42	Total Hexa-Dioxins				0.7369	10.052	37.64		0.000		NO	1.894		0.122	1.694
43	Total Tetra-Furans				0.5878	10.052	23.91		0.000		NO	0.0000		0.0436	0.1402
44	1st Func. Penta-Furans				0.6261	10.052	27.39		0.000		NO			0.0191	
45	Total Penta-Furans				0.6261	10.052	29.27		0.000		NO	0.3451		0.0823	0.3032
46	Total Hexa-Furans				0.7886	10.052	33.36		0.000		NO	0.2678		0.0716	0.2678
47	Total Hexa-Furans				0.7216	10.052	37.81		0.000		NO	0.0000		0.0666	0.6644

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	1,2,3,4,7,8-HxCDF	33.11	33.13	5.338e2	3.869e2	1.240	1.36	NO	0.25747	0.25747
2	Total Hexa-Furans	33.56	32.67	2.428e2	2.002e2	1.240	1.17	NO	0.13005	0.13005



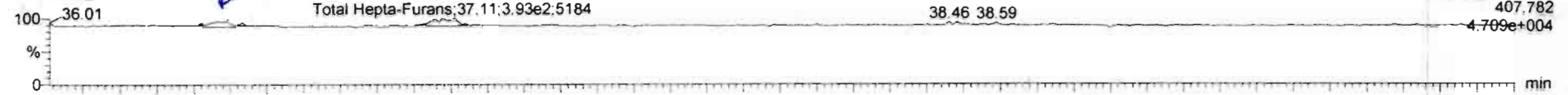
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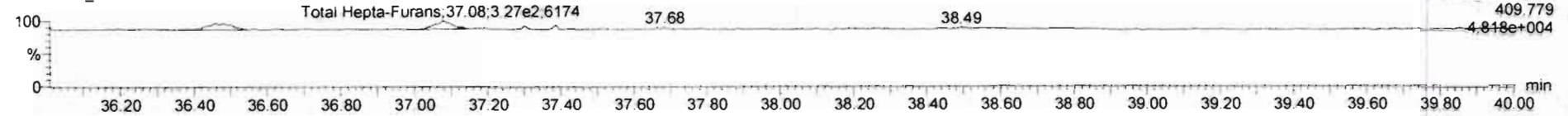
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1,2,3,4,6,7,8-HpCDF

200130R2_11

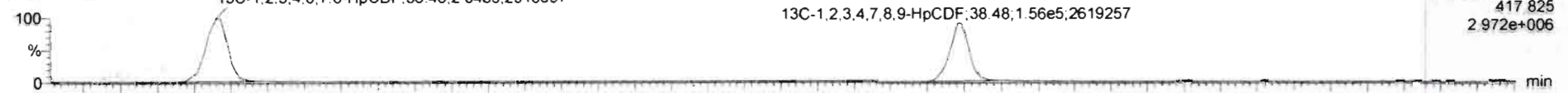


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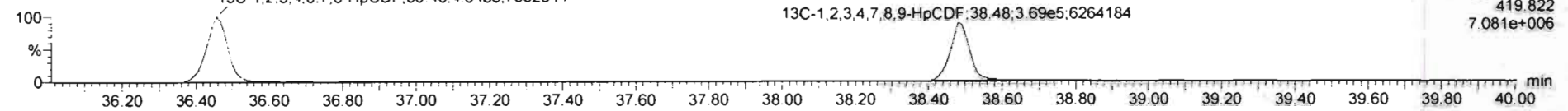


13C-1,2,3,4,6,7,8-HpCDF

200130R2_11

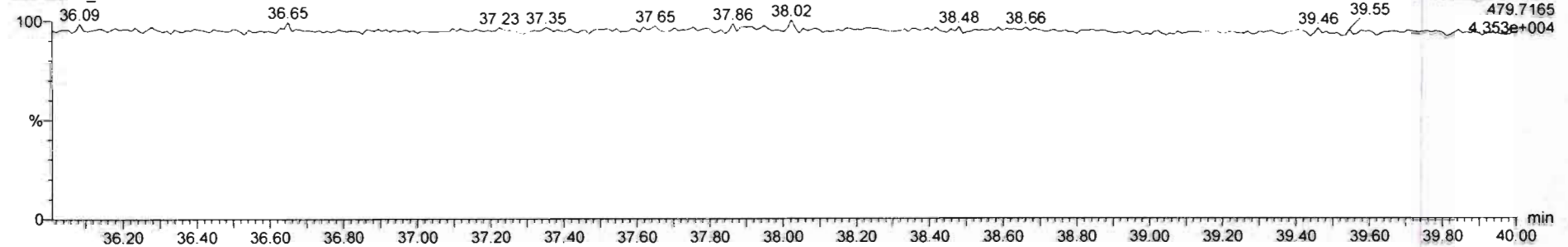


200130R2_11



DPE4

200130R2_11



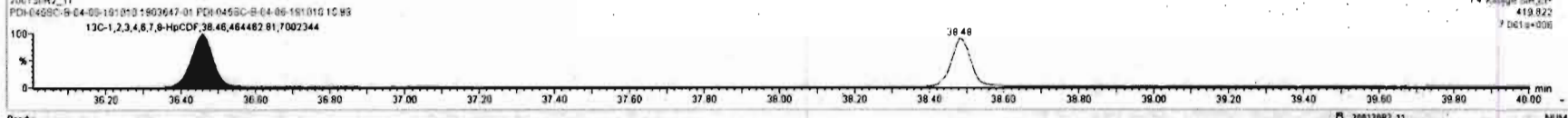
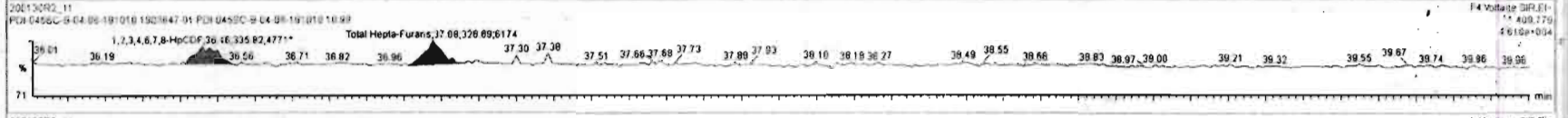
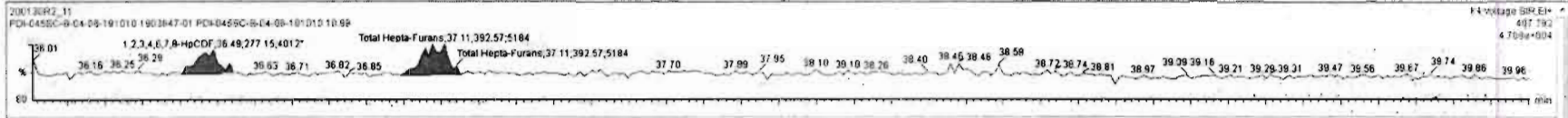
Targetlynx35 - 200130R2-11 - [Chromatogram]

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200130R2_11 - 1902047-01 PDI-0455C-B-04-05-191010-10-99 - PDI-0455C-B-04-05-191010-10-99

#	Name	Resp	RA	nly	RNF	ndVol	Pred RT	RT	Pred R	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.052	24.52		0.000		NO			0.0424	
40	Total Penta-Dioxins				0.8916	10.052	29.96		0.000		NO			0.0215	
41	Total Hexa-Dioxins				0.7941	10.052	33.63		0.000		NO	0.0000		0.0480	0.1763
42	Total Hepta-Dioxins				0.7389	10.052	37.64		0.000		NO	1.694		0.122	1.694
43	Total Tetra-Furans				0.5876	10.052	23.61		0.000		NO	0.0000		0.0436	0.1432
44	1st Func. Penta-Furans				0.8261	10.052	27.09		0.000		NO			0.0191	
45	Total Penta-Furans				0.8261	10.052	29.27		0.000		NO	0.3451		0.0623	0.3612
46	Total Hexa-Furans				0.7665	10.052	33.56		0.000		NO	0.5071		0.0715	0.5071
47	Total Hepta-Furans				0.7316	10.052	37.61		0.000		NO	0.0000		0.0668	0.6516

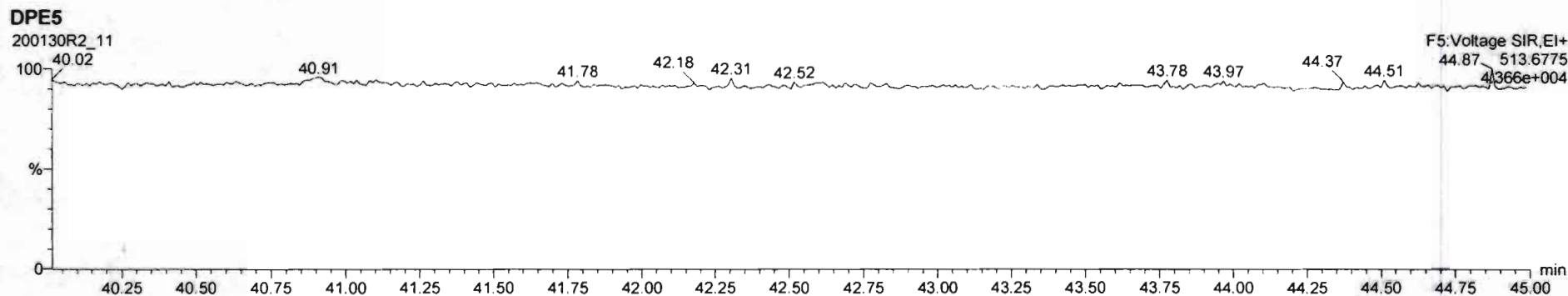
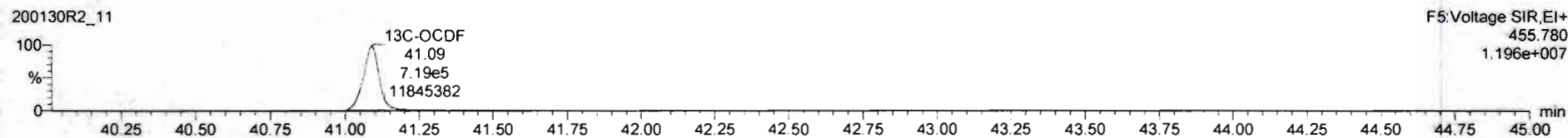
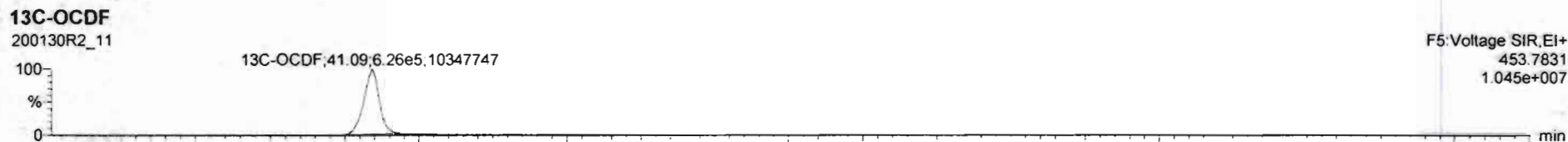
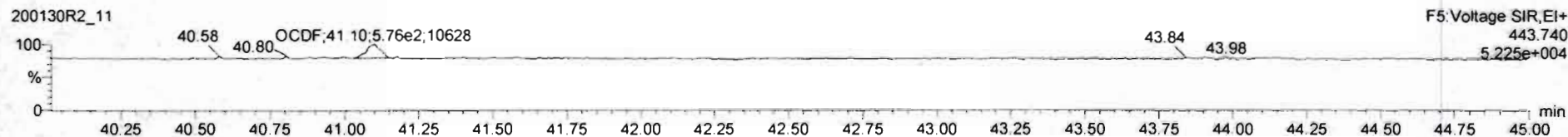
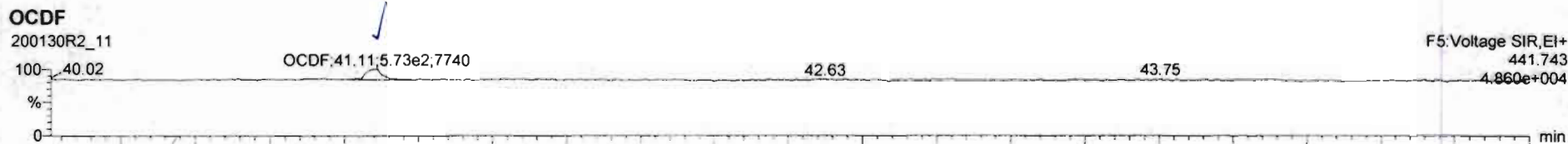
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1st Ratio (Pred)	RA	nly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.49	36.49	3.107e2	3.517e2	1.040	0.96	YES	0.24793	0.00000
2	47 Total Hepta-Furans	37.83	37.11	3.926e2	3.267e2	1.040	1.20	YES	0.30357	0.00000



Dataset: Untitled

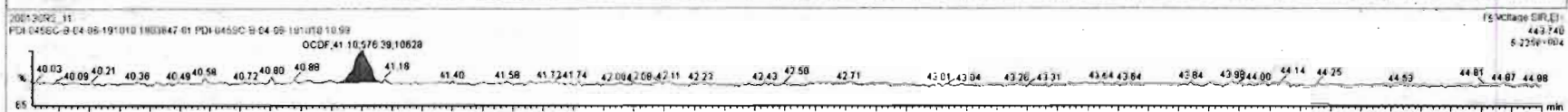
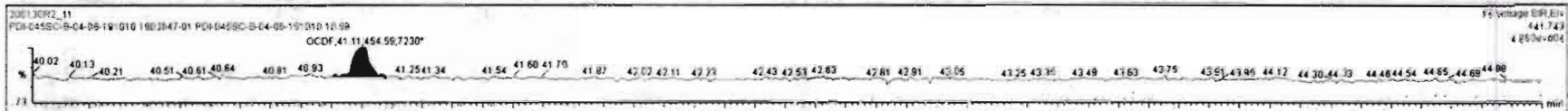
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Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_11, Date: 30-Jan-2020, Time: 22:16:27, ID: 1903647-01 PDI-045SC-B-04-06-191010 10.99, Description: PDI-045SC-B-04-06-191010



#	Name	Resp	RA	n/y	RRF	wtWtd	Pred RT	RT	Pred R	RRT	RRT Fld	Conc	%Rec	DL	EMPC
17	OCDF	1.15e3	0.99	NO	0.6306	10.052	41.09	41.11	1.000	1.001	NO	0.5323		0.110	0.5323
18	13C-2,3,7,8-TCDD	1.01e6	0.78	NO	1.1157	10.362	25.71	25.70	1.026	1.026	NO	197.2	99.1		0.235
19	13C-1,2,3,7,8-PeCDD	9.04e5	0.64	NO	0.8411	10.052	30.42	30.64	1.215	1.222	NO	233.2	117		0.275
20	13C-1,2,3,4,7,8-HxCDD	8.05e5	1.26	NO	0.9379	10.052	33.90	33.99	1.014	1.014	NO	174.7	87.6		0.300
21	13C-1,2,3,6,7,8-HxCDD	8.75e5	1.27	NO	1.0654	10.052	34.08	34.08	1.017	1.017	NO	167.3	84.1		0.296
22	13C-1,2,3,7,8,9-HxCDD	9.00e5	1.24	NO	1.0303	10.052	34.36	34.36	1.026	1.026	NO	177.8	89.4		0.306
23	13C-1,2,3,4,6,7,8-HxCDD	7.87e5	1.04	NO	0.7090	10.052	37.93	37.90	1.132	1.131	NO	225.8	113		0.262
24	13C-OCDD	1.22e6	0.90	NO	0.6010	10.052	40.81	40.90	1.216	1.221	NO	413.0	134		0.408
25	13C-1,2,3,7,8,9-HxCDF	1.15e3	0.99	NO	0.6306	10.052	41.09	41.11	1.000	1.001	NO	176.2	88.1		0.298

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

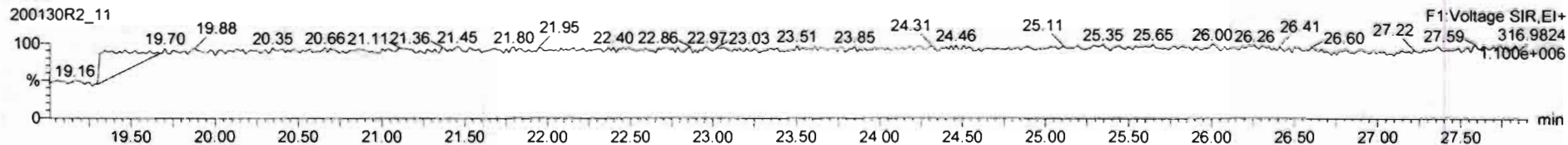


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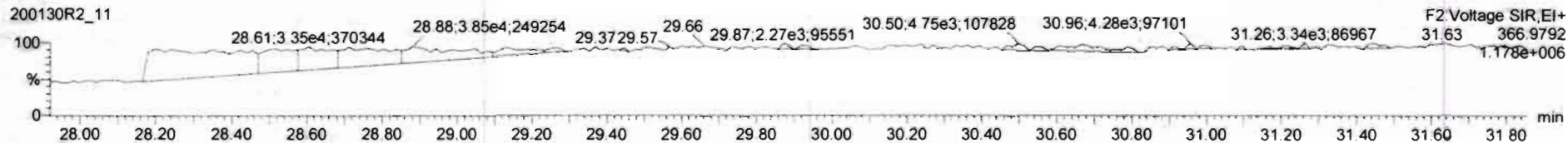
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Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_11, Date: 30-Jan-2020, Time: 22:16:27, ID: 1903647-01 PDI-045SC-B-04-06-191010 10.99, Description: PDI-045SC-B-04-06-191010

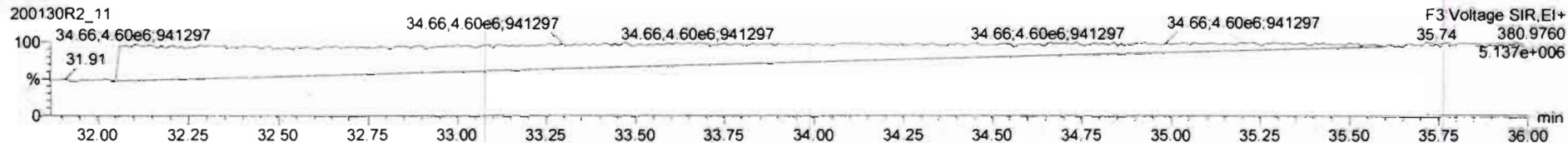
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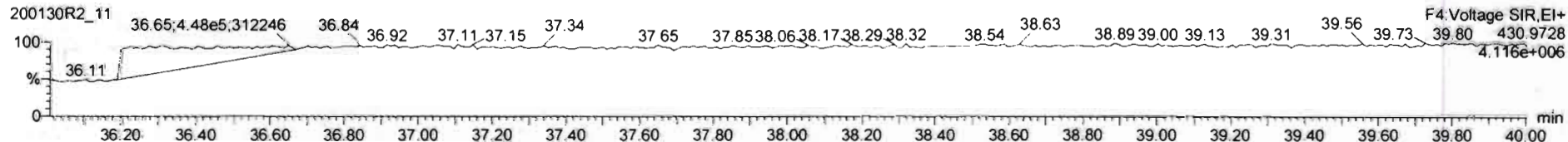
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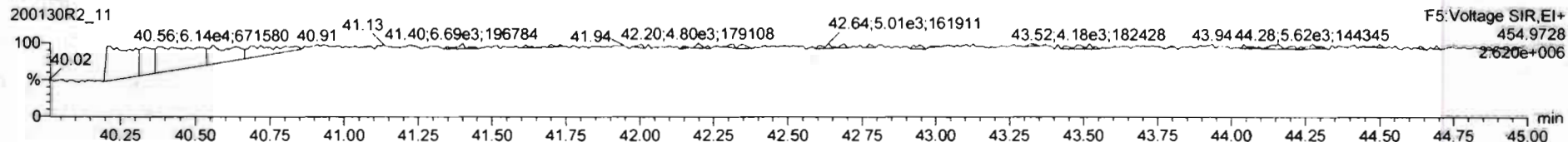
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200130R2\200130R2-12.qld

Last Altered: Tuesday, February 04, 2020 12:59:53 Pacific Standard Time
Printed: Tuesday, February 04, 2020 13:00:45 Pacific Standard Time

GRB 02/04/2020
C-1 02/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

* SEE DL.

Name: 200130R2_12, Date: 30-Jan-2020, Time: 23:03:32, ID: 1903647-02 PDI-067SC-B-00-02-191010 18.9, Description: PDI-067SC-B-00-02-191010

#	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	1.19e4	0.70	NO	0.824	10.003	25.736	25.74	1.001	1.001	2.4094		0.114	2.41
2	2 1,2,3,7,8-PeCDD	1.75e4	0.67	NO	0.912	10.003	30.657	30.65	1.001	1.001	4.1152		0.201	4.12
3	3 1,2,3,4,7,8-HxCDD	2.97e4	1.19	NO	0.870	10.003	33.997	34.00	1.000	1.000	8.9475		0.952	8.95
4	4 1,2,3,6,7,8-HxCDD	2.74e5	1.21	NO	0.784	10.003	34.083	34.10	1.000	1.001	81.071		0.994	81.1
5	5 1,2,3,7,8,9-HxCDD	7.41e4	1.18	NO	0.798	10.003	34.394	34.38	1.001	1.001	22.765		1.07	22.8
6	6 1,2,3,4,6,7,8-HpCDD	1.52e7	1.00	NO	0.737	10.003	37.918	37.92	1.000	1.000	6173.1 EX		4.53	6170
7	7 OCDD	6.23e7	0.88	NO	0.800	10.003	40.921	40.93	1.000	1.000	40976 EX		2.67	41000
8	8 2,3,7,8-TCDF	1.18e6	0.74	NO	0.588	10.003	24.847	24.85	1.001	1.001	267.94 (183)		0.212	268
9	9 1,2,3,7,8-PeCDF	1.69e6	1.54	NO	0.826	10.003	29.376	29.37	1.001	1.001	301.66		0.347	302
10	10 2,3,4,7,8-PeCDF	7.94e5	1.53	NO	0.850	10.003	30.361	30.35	1.001	1.001	147.63		0.330	148
11	11 1,2,3,4,7,8-HxCDF	1.60e6	1.16	NO	0.787	10.003	33.114	33.13	1.000	1.001	468.30		0.500	468
12	12 1,2,3,6,7,8-HxCDF	4.18e5	1.13	NO	0.720	10.003	33.241	33.25	1.000	1.001	119.95		0.515	120
13	13 2,3,4,6,7,8-HxCDF	1.11e5	1.15	NO	0.766	10.003	33.851	33.83	1.001	1.000	37.828		0.623	37.8
14	14 1,2,3,7,8,9-HxCDF	8.13e4	1.12	NO	0.709	10.003	34.722	34.76	1.000	1.001	29.837		0.728	29.8
15	15 1,2,3,4,6,7,8-HpCDF	7.99e5	0.96	NO	0.732	10.003	36.505	36.49	1.001	1.001	359.44		1.26	359
16	16 1,2,3,4,7,8,9-HpCDF	1.77e5	0.95	NO	0.816	10.003	38.493	38.50	1.000	1.000	91.480		1.27	91.5
17	17 OCDF	2.80e6	0.85	NO	0.639	10.003	41.102	41.11	1.000	1.000	1807.7		0.690	1810
18	18 13C-2,3,7,8-TCDD	1.20e6	0.79	NO	1.12	10.003	25.721	25.70	1.026	1.025	168.03	84.0	0.150	
19	19 13C-1,2,3,7,8-PeCDD	9.33e5	0.63	NO	0.841	10.003	30.469	30.64	1.215	1.222	173.18	86.6	0.259	
20	20 13C-1,2,3,4,7,8-HxCDD	7.63e5	1.26	NO	0.938	10.003	33.977	33.99	1.014	1.014	130.65	65.3	0.247	
21	21 13C-1,2,3,6,7,8-HxCDD	8.61e5	1.25	NO	1.07	10.003	34.078	34.08	1.017	1.017	129.78	64.9	0.217	
22	22 13C-1,2,3,7,8,9-HxCDD	8.15e5	1.25	NO	1.03	10.003	34.379	34.36	1.026	1.025	126.95	63.5	0.225	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.67e5	1.01	NO	0.710	10.003	37.931	37.91	1.132	1.131	150.88	75.5	0.367	
24	24 13C-OCDD	7.60e5	0.90	NO	0.601	10.003	40.813	40.92	1.218	1.221	202.90	50.7	0.330	
25	25 13C-2,3,7,8-TCDF	1.49e6	0.77	NO	1.04	10.003	24.901	24.82	0.993	0.990	159.18	79.6	0.239	
26	26 13C-1,2,3,7,8-PeCDF	1.36e6	1.57	NO	0.917	10.003	29.240	29.35	1.166	1.171	163.48	81.8	0.402	
27	27 13C-2,3,4,7,8-PeCDF	1.27e6	1.56	NO	0.903	10.003	30.193	30.33	1.204	1.210	154.77	77.4	0.408	
28	28 13C-1,2,3,4,7,8-HxCDF	8.69e5	0.51	NO	0.861	10.003	33.106	33.11	0.988	0.988	162.06	81.1	0.444	
29	29 13C-1,2,3,6,7,8-HxCDF	9.67e5	0.51	NO	1.05	10.003	33.206	33.23	0.991	0.992	148.38	74.2	0.365	
30	30 13C-2,3,4,6,7,8-HxCDF	7.66e5	0.52	NO	0.946	10.003	33.813	33.82	1.009	1.009	130.00	65.0	0.404	
31	31 13C-1,2,3,7,8,9-HxCDF	7.69e5	0.50	NO	0.816	10.003	34.714	34.72	1.036	1.036	151.39	75.7	0.469	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	6.08e5	0.44	NO	0.589	10.003	36.457	36.47	1.088	1.088	165.60	82.8	0.515	
33	13C-1,2,3,4,7,8,9-HpCDF	4.74e5	0.42	NO	0.448	10.003	38.467	38.49	1.148	1.149	169.96	85.0	0.677	
34	13C-OCDF	9.71e5	0.88	NO	0.586	10.003	41.047	41.10	1.225	1.227	266.25	66.6	0.308	
35	37Cl-2,3,7,8-TCDD	4.73e5			1.09	10.003	25.754	25.74	1.027	1.026	68.083	85.1	0.0789	
36	13C-1,2,3,4-TCDD	1.28e6	0.80	NO	1.00	10.003	25.080	25.08	1.000	1.000	199.93	100	0.167	
37	13C-1,2,3,4-TCDF	1.81e6	0.79	NO	1.00	10.003	23.420	23.42	1.000	1.000	199.93	100	0.248	
38	13C-1,2,3,4,6,9-HxCDF	1.25e6	0.51	NO	1.00	10.003	33.520	33.51	1.000	1.000	199.93	100	0.382	
39	Total Tetra-Dioxins				0.824	10.003	24.620		0.000		41.066		0.114	46.0
40	Total Penta-Dioxins				0.912	10.003	29.960		0.000		57.909		0.201	72.1
41	Total Hexa-Dioxins				0.784	10.003	33.635		0.000		1255.9		1.05	1260
42	Total Hepta-Dioxins				0.737	10.003	37.640		0.000		15115		4.53	15100
43	Total Tetra-Furans				0.588	10.003	23.610		0.000		810.13		0.212	811
44	1st Func. Penta-Furans				0.826	10.003	27.090		0.000		73.962		0.0567	74.0
45	Total Penta-Furans				0.826	10.003	29.275		0.000		857.53		0.343	858
46	Total Hexa-Furans				0.766	10.003	33.555		0.000		1072.8		0.566	1070
47	Total Hepta-Furans				0.732	10.003	37.835		0.000		1849.7		1.33	1850

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Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

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Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.78	2.095e5	2.697e5	2.215e4	2.786e4	0.80	NO	5.002e4	10.112	10.112	0.114
2	Total Tetra-Dioxins	22.22	7.314e4	9.238e4	7.056e3	8.767e3	0.80	NO	1.582e4	3.1988	3.1988	0.114
3	Total Tetra-Dioxins	22.71	7.020e4	9.584e4	6.232e3	8.293e3	0.75	NO	1.453e4	2.9366	2.9366	0.114
4	Total Tetra-Dioxins	23.58	3.459e4	4.915e4	2.768e3	3.833e3	0.72	NO	6.601e3	1.3344	1.3344	0.114
5	Total Tetra-Dioxins	23.83	1.057e5	1.324e5	8.149e3	1.072e4	0.76	NO	0.000e0	0.00000	3.8156	0.114
6	Total Tetra-Dioxins	23.88	3.959e4	5.240e4	2.390e3	3.277e3	0.73	NO	0.000e0	0.00000	1.1458	0.114
7	Total Tetra-Dioxins	24.06	8.948e4	1.364e5	7.513e3	9.663e3	0.78	NO	1.718e4	3.4724	3.4724	0.114
8	Total Tetra-Dioxins	24.27	4.688e4	6.396e4	3.743e3	4.769e3	0.78	NO	8.512e3	1.7209	1.7209	0.114
9	Total Tetra-Dioxins	24.52	4.370e4	5.628e4	3.153e3	4.299e3	0.73	NO	7.452e3	1.5065	1.5065	0.114
10	Total Tetra-Dioxins	24.69	7.603e4	8.642e4	5.177e3	6.200e3	0.83	NO	1.138e4	2.3001	2.3001	0.114
11	Total Tetra-Dioxins	25.05	6.690e4	8.252e4	5.514e3	6.834e3	0.81	NO	1.235e4	2.4963	2.4963	0.114
12	Total Tetra-Dioxins	25.18	2.551e4	2.515e4	1.635e3	1.984e3	0.82	NO	3.620e3	0.73174	0.73174	0.114
13	Total Tetra-Dioxins	25.48	9.706e4	1.278e5	8.583e3	1.067e4	0.80	NO	1.925e4	3.8921	3.8921	0.114
14	Total Tetra-Dioxins	25.60	2.429e4	4.231e4	1.868e3	2.360e3	0.79	NO	4.227e3	0.85463	0.85463	0.114
15	2,3,7,8-TCDD	25.74	7.010e4	1.078e5	4.889e3	7.029e3	0.70	NO	1.192e4	2.4094	2.4094	0.114
16	Total Tetra-Dioxins	26.05	8.019e4	9.603e4	5.153e3	6.682e3	0.77	NO	1.183e4	2.3925	2.3925	0.114
17	Total Tetra-Dioxins	26.18	1.897e4	2.187e4	1.263e3	1.503e3	0.84	NO	2.766e3	0.55914	0.55914	0.114
18	Total Tetra-Dioxins	26.68	4.357e4	4.930e4	2.553e3	3.128e3	0.82	NO	5.681e3	1.1484	1.1484	0.114

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Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.45	4.312e5	6.710e5	3.191e4	5.097e4	0.63	NO	8.288e4	19.490	19.490	0.201
2	Total Penta-Dioxins	28.91	2.657e5	4.077e5	1.464e4	2.282e4	0.64	NO	3.746e4	8.8089	8.8089	0.201
3	Total Penta-Dioxins	29.42	2.507e5	3.922e5	1.330e4	2.038e4	0.65	NO	3.369e4	7.9222	7.9222	0.201
4	Total Penta-Dioxins	29.58	1.891e5	3.000e5	1.002e4	1.567e4	0.64	NO	2.569e4	6.0425	6.0425	0.201
5	Total Penta-Dioxins	29.66	1.259e5	1.971e5	6.461e3	1.011e4	0.64	NO	1.657e4	3.8972	3.8972	0.201
6	Total Penta-Dioxins	29.89	2.480e5	3.805e5	1.256e4	1.999e4	0.63	NO	0.000e0	0.00000	7.6527	0.201
7	Total Penta-Dioxins	29.90	2.259e5	3.773e5	1.065e4	1.701e4	0.63	NO	0.000e0	0.00000	6.5046	0.201
8	Total Penta-Dioxins	30.23	7.293e4	1.043e5	3.879e3	6.240e3	0.62	NO	1.012e4	2.3796	2.3796	0.201
9	1,2,3,7,8-PeCDD	30.65	1.278e5	1.941e5	7.000e3	1.050e4	0.67	NO	1.750e4	4.1152	4.1152	0.201
10	Total Penta-Dioxins	30.73	9.435e4	1.599e5	5.133e3	7.758e3	0.66	NO	1.289e4	3.0316	3.0316	0.201
11	Total Penta-Dioxins	31.03	6.758e4	1.112e5	3.702e3	5.745e3	0.64	NO	9.446e3	2.2215	2.2215	0.201

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.51	2.009e7	1.664e7	9.950e5	8.157e5	1.22	NO	1.811e6	567.88	567.88	1.05
2	Total Hexa-Dioxins	33.06	1.822e6	1.499e6	9.603e4	7.816e4	1.23	NO	1.742e5	54.629	54.629	1.05
3	Total Hexa-Dioxins	33.32	1.164e7	9.532e6	7.892e5	6.521e5	1.21	NO	1.441e6	452.00	452.00	1.05
4	Total Hexa-Dioxins	33.43	1.385e6	1.151e6	7.820e4	6.444e4	1.21	NO	1.426e5	44.732	44.732	1.05
5	1,2,3,4,7,8-HxCDD	34.00	3.257e5	2.440e5	1.618e4	1.355e4	1.19	NO	2.973e4	8.9475	8.9475	0.952
6	1,2,3,6,7,8-HxCDD	34.10	2.617e6	2.133e6	1.500e5	1.239e5	1.21	NO	2.738e5	81.071	81.071	0.994
7	Total Hexa-Dioxins	34.29	7.259e5	5.696e5	4.120e4	3.490e4	1.18	NO	7.610e4	23.867	23.867	1.05
8	1,2,3,7,8,9-HxCDD	34.38	6.551e5	5.433e5	4.016e4	3.391e4	1.18	NO	7.407e4	22.765	22.765	1.07

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.88	1.500e8	1.493e8	1.107e7	1.092e7	1.01	NO	2.199e7	8941.5	8941.5	4.53
2	1,2,3,4,6,7,8-HpCDD	37.92	1.119e8	1.127e8	7.596e6	7.584e6	1.00	NO	1.518e7	6173.1	6173.1	4.53

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.70	4.045e4	5.416e4	3.335e3	4.392e3	0.76	NO	7.726e3	1.7585	1.7585	0.212
2	Total Tetra-Furans	20.21	1.015e5	1.352e5	8.537e3	1.160e4	0.74	NO	2.013e4	4.5824	4.5824	0.212
3	Total Tetra-Furans	20.83	8.289e5	1.118e6	7.614e4	1.018e5	0.75	NO	1.779e5	40.489	40.489	0.212
4	Total Tetra-Furans	21.29	8.077e4	1.023e5	5.133e3	7.425e3	0.69	NO	1.256e4	2.8582	2.8582	0.212
5	Total Tetra-Furans	21.38	1.730e5	2.128e5	2.225e4	2.961e4	0.75	NO	5.186e4	11.803	11.803	0.212
6	Total Tetra-Furans	21.77	1.262e6	1.658e6	1.254e5	1.687e5	0.74	NO	2.942e5	66.953	66.953	0.212
7	Total Tetra-Furans	22.25	4.663e5	6.343e5	4.462e4	6.123e4	0.73	NO	1.058e5	24.090	24.090	0.212
8	Total Tetra-Furans	22.40	5.485e4	7.409e4	4.566e3	6.389e3	0.71	NO	1.095e4	2.4932	2.4932	0.212
9	Total Tetra-Furans	22.59	2.293e5	3.263e5	2.156e4	2.935e4	0.73	NO	5.091e4	11.587	11.587	0.212
10	Total Tetra-Furans	23.04	5.577e4	7.272e4	5.100e3	6.785e3	0.75	NO	1.188e4	2.7049	2.7049	0.212
11	Total Tetra-Furans	23.16	4.355e4	5.901e4	3.344e3	4.891e3	0.68	NO	8.235e3	1.8742	1.8742	0.212
12	Total Tetra-Furans	23.34	4.022e5	5.517e5	2.797e4	3.902e4	0.72	NO	6.699e4	15.245	15.245	0.212
13	Total Tetra-Furans	23.42	7.142e5	9.308e5	6.746e4	8.954e4	0.75	NO	1.570e5	35.731	35.731	0.212
14	Total Tetra-Furans	23.92	5.973e6	8.016e6	4.576e5	6.139e5	0.75	NO	1.072e6	243.88	243.88	0.212
15	Total Tetra-Furans	24.22	2.206e5	2.847e5	1.655e4	2.191e4	0.76	NO	3.846e4	8.7541	8.7541	0.212
16	Total Tetra-Furans	24.42	2.930e4	4.151e4	2.863e3	3.431e3	0.83	NO	6.294e3	1.4326	1.4326	0.212
17	Total Tetra-Furans	24.64	7.876e4	1.068e5	4.774e3	6.139e3	0.78	NO	1.091e4	2.4838	2.4838	0.212
18	Total Tetra-Furans	24.75	8.049e5	1.119e6	4.390e4	6.040e4	0.73	NO	1.043e5	23.737	23.737	0.212
19	2,3,7,8-TCDF	24.85	6.704e6	9.133e6	4.996e5	6.777e5	0.74	NO	1.177e6	267.94	267.94	0.212
20	Total Tetra-Furans	25.21	3.260e5	4.366e5	2.354e4	3.127e4	0.75	NO	5.481e4	12.474	12.474	0.212
21	Total Tetra-Furans	25.47	6.440e4	8.712e4	4.208e3	5.680e3	0.74	NO	9.888e3	2.2504	2.2504	0.212
22	Total Tetra-Furans	26.27	2.610e4	1.197e4	1.486e3	7.558e2	1.97	YES	0.000e0	0.00000	0.30448	0.212
23	Total Tetra-Furans	26.36	1.617e4	2.702e4	1.037e3	1.459e3	0.71	NO	2.496e3	0.56808	0.56808	0.212
24	Total Tetra-Furans	26.53	3.474e4	3.317e4	2.102e3	1.952e3	1.08	YES	0.000e0	0.00000	0.78626	0.212
25	Total Tetra-Furans	26.83	7.238e5	9.313e5	4.694e4	6.046e4	0.78	NO	1.074e5	24.444	24.444	0.212

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	26.81	3.801e6	2.447e6	2.454e5	1.554e5	1.58	NO	4.008e5	73.962	73.962	0.0567

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Name: 200130R2_12, Date: 30-Jan-2020, Time: 23:03:32, ID: 1903647-02 PDI-067SC-B-00-02-191010 18.9, Description: PDI-067SC-B-00-02-191010

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.26	3.654e5	2.546e5	2.286e4	1.633e4	1.40	NO	3.919e4	7.2323	7.2323	0.343
2	Total Penta-Furans	28.39	8.908e6	5.949e6	5.610e5	3.770e5	1.49	NO	9.380e5	173.10	173.10	0.343
3	Total Penta-Furans	28.97	7.096e5	4.807e5	4.255e4	3.086e4	1.38	NO	7.342e4	13.549	13.549	0.343
4	Total Penta-Furans	29.05	3.063e5	2.066e5	1.599e4	1.077e4	1.48	NO	2.676e4	4.9377	4.9377	0.343
5	Total Penta-Furans	29.19	2.568e6	1.694e6	1.331e5	8.651e4	1.54	NO	2.196e5	40.523	40.523	0.343
6	1,2,3,7,8-PeCDF	29.37	1.912e7	1.238e7	1.027e6	6.652e5	1.54	NO	1.692e6	301.66	301.66	0.347
7	Total Penta-Furans	29.63	6.807e6	4.584e6	3.863e5	2.564e5	1.51	NO	6.427e5	118.60	118.60	0.343
8	Total Penta-Furans	30.12	5.467e4	2.612e4	2.605e3	1.401e3	1.86	YES	0.000e0	0.00000	0.65907	0.343
9	Total Penta-Furans	30.24	1.828e5	1.208e5	9.080e3	5.940e3	1.53	NO	1.502e4	2.7719	2.7719	0.343
10	2,3,4,7,8-PeCDF	30.35	9.887e6	6.370e6	4.807e5	3.133e5	1.53	NO	7.940e5	147.63	147.63	0.330
11	Total Penta-Furans	30.38	5.430e6	3.419e6	1.278e5	7.960e4	1.61	NO	2.074e5	38.272	38.272	0.343
12	Total Penta-Furans	31.28	5.585e5	3.909e5	2.998e4	2.011e4	1.49	NO	5.009e4	9.2445	9.2445	0.343

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.96	8.637e5	7.406e5	4.247e4	3.559e4	1.19	NO	7.806e4	24.157	24.157	0.566
2	Total Hexa-Furans	32.12	3.466e6	3.026e6	1.714e5	1.459e5	1.17	NO	3.173e5	98.206	98.206	0.566
3	Total Hexa-Furans	32.50	9.047e4	7.252e4	4.678e3	3.835e3	1.22	NO	8.513e3	2.6345	2.6345	0.566
4	Total Hexa-Furans	32.67	8.880e6	7.640e6	4.345e5	3.719e5	1.17	NO	8.064e5	249.56	249.56	0.566
5	Total Hexa-Furans	33.04	1.915e5	1.829e5	8.513e3	7.806e3	1.09	NO	1.632e4	5.0502	5.0502	0.566
6	1,2,3,4,7,8-HxCDF	33.13	1.586e7	1.367e7	8.610e5	7.409e5	1.16	NO	1.602e6	468.30	468.30	0.500
7	1,2,3,6,7,8-HxCDF	33.25	4.028e6	3.503e6	2.219e5	1.961e5	1.13	NO	4.180e5	119.95	119.95	0.515
8	Total Hexa-Furans	33.52	9.626e4	8.109e4	5.654e3	4.961e3	1.14	NO	1.061e4	3.2849	3.2849	0.566
9	2,3,4,6,7,8-HxCDF	33.83	1.043e6	9.353e5	5.937e4	5.168e4	1.15	NO	1.110e5	37.828	37.828	0.623
10	1,2,3,7,8,9-HxCDF	34.76	1.422e6	1.238e6	4.306e4	3.827e4	1.12	NO	8.133e4	29.837	29.837	0.728
11	Total Hexa-Furans	34.78	1.531e6	1.312e6	6.030e4	4.957e4	1.22	NO	1.099e5	34.003	34.003	0.566

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.49	5.616e6	5.724e6	3.922e5	4.072e5	0.96	NO	7.994e5	359.44	359.44	1.26
2	Total Hepta-Furans	36.88	1.596e5	1.633e5	1.211e4	1.199e4	1.01	NO	2.410e4	12.174	12.174	1.33
3	Total Hepta-Furans	37.10	1.801e7	1.846e7	1.348e6	1.397e6	0.96	NO	2.745e6	1386.6	1386.6	1.33
4	1,2,3,4,7,8,9-HpCDF	38.50	1.421e6	1.535e6	8.639e4	9.076e4	0.95	NO	1.772e5	91.480	91.480	1.27

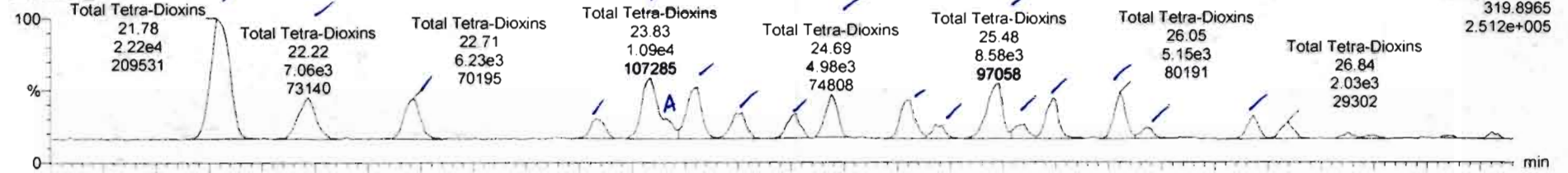
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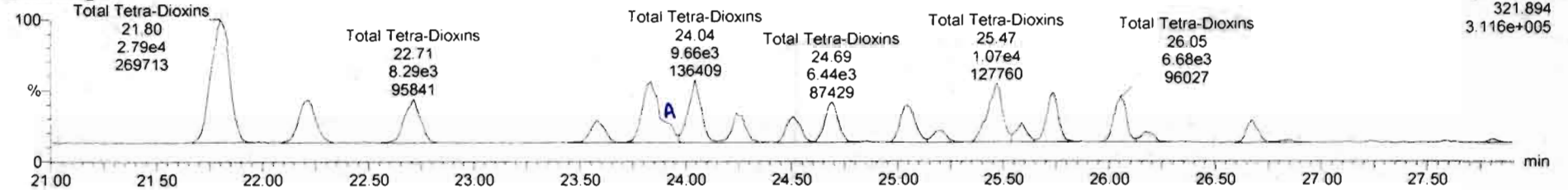
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2,3,7,8-TCDD

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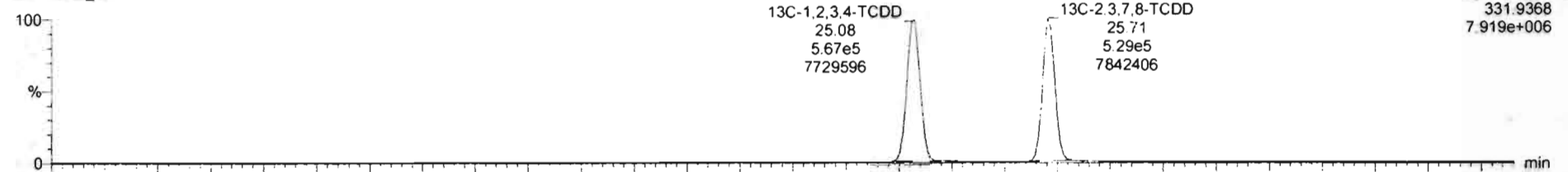


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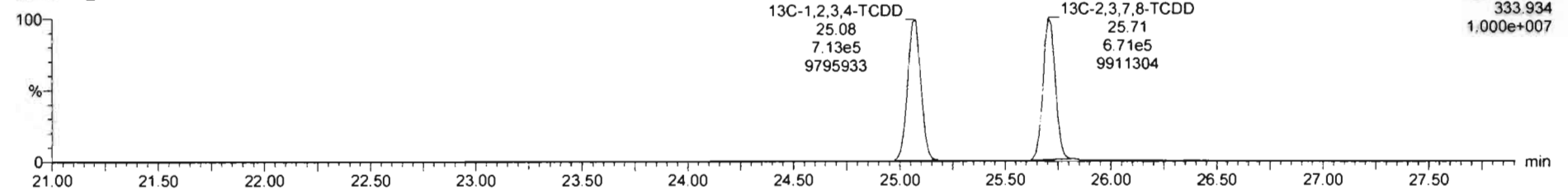


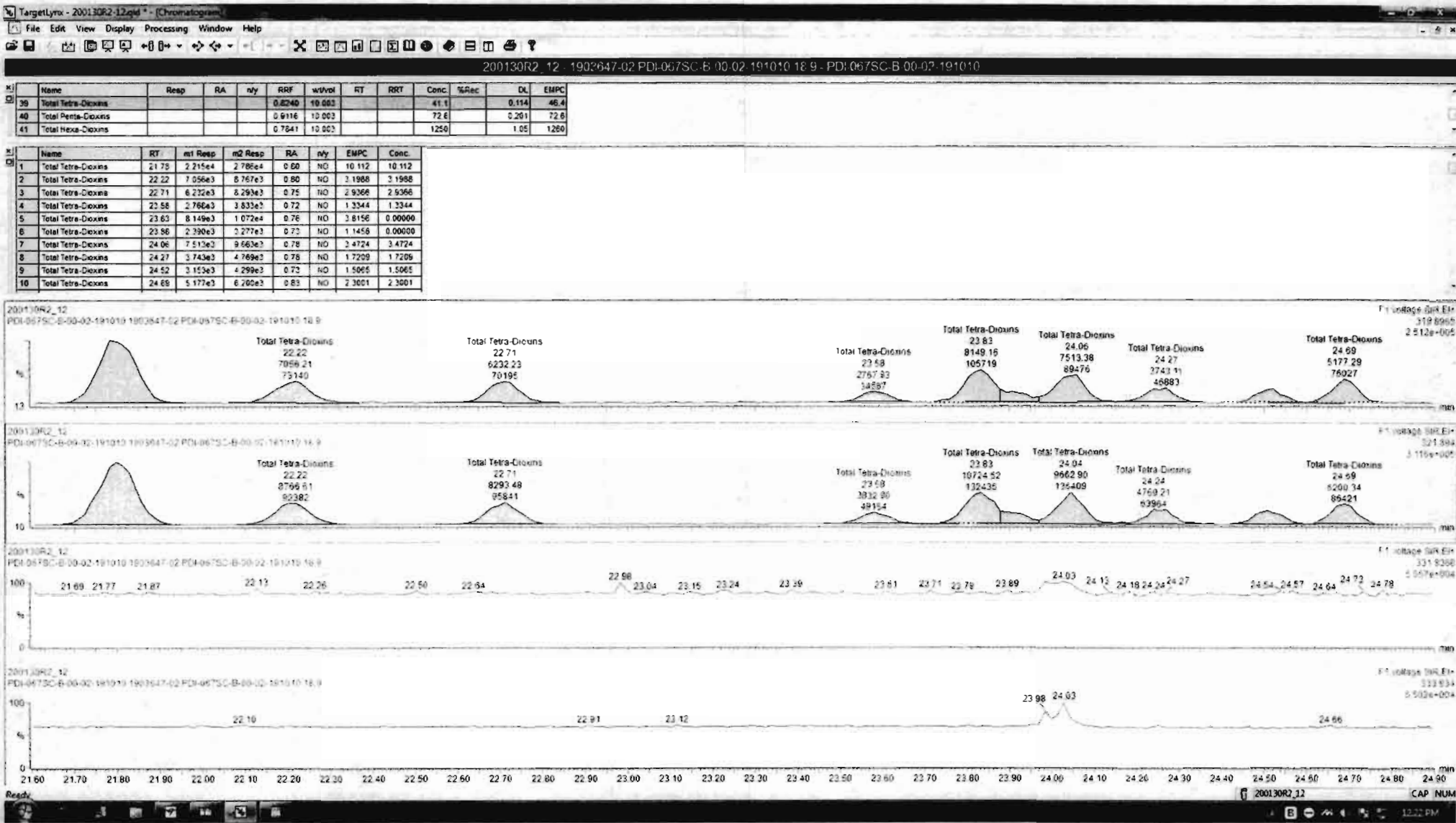
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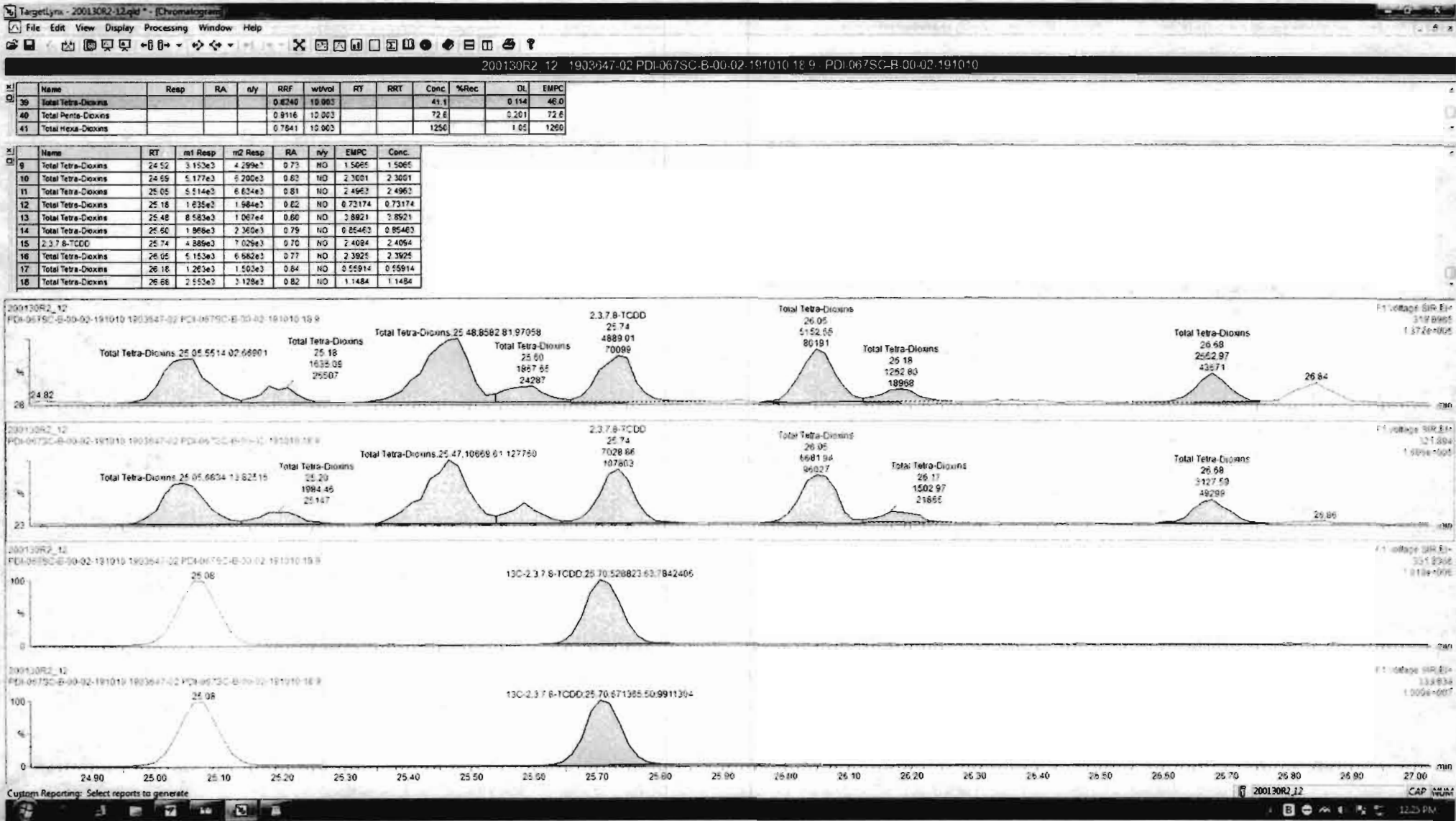
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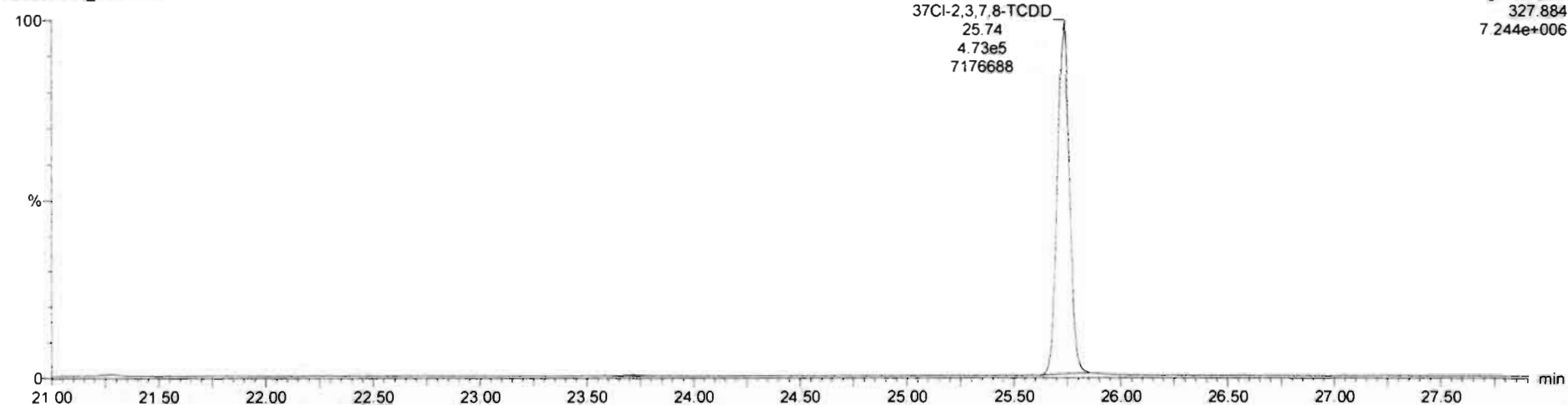
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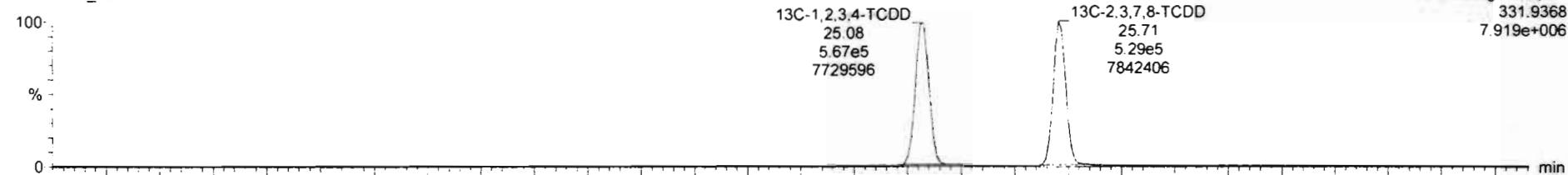
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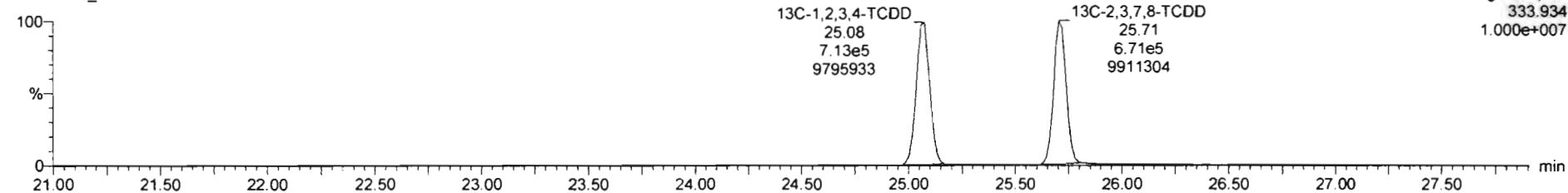


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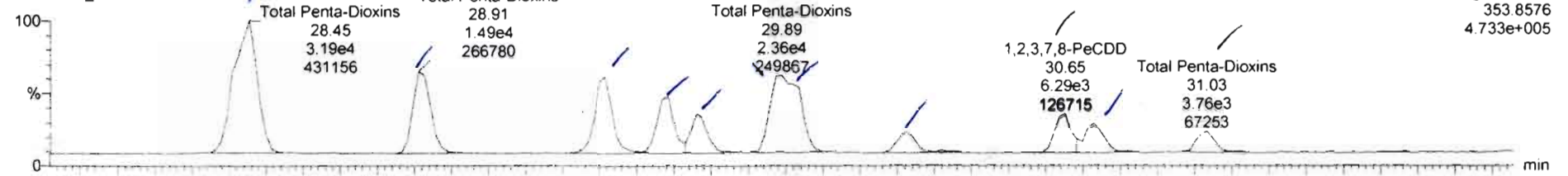
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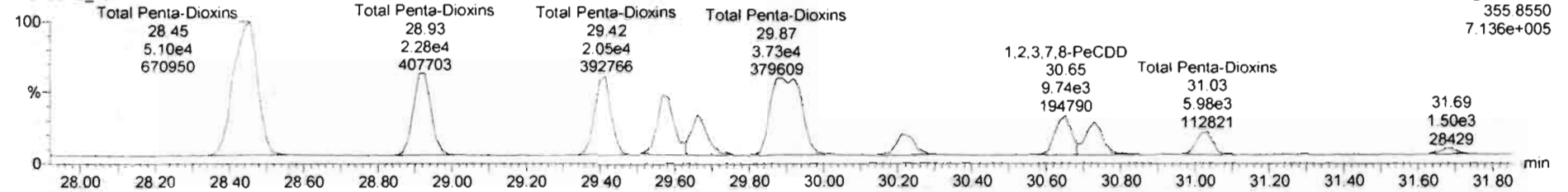
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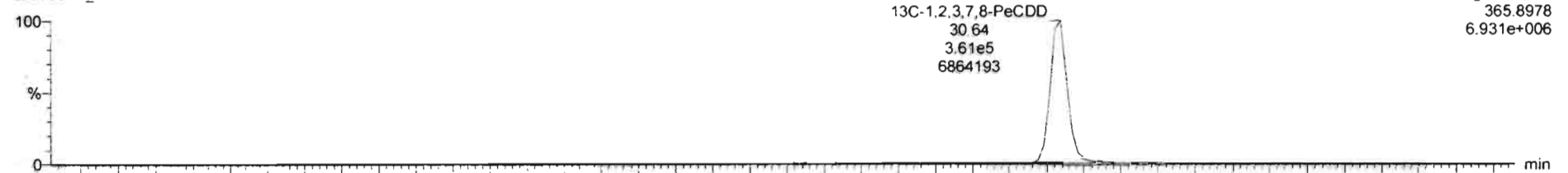


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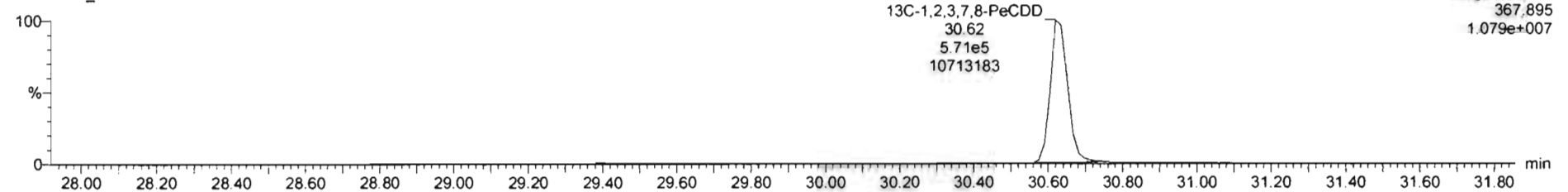


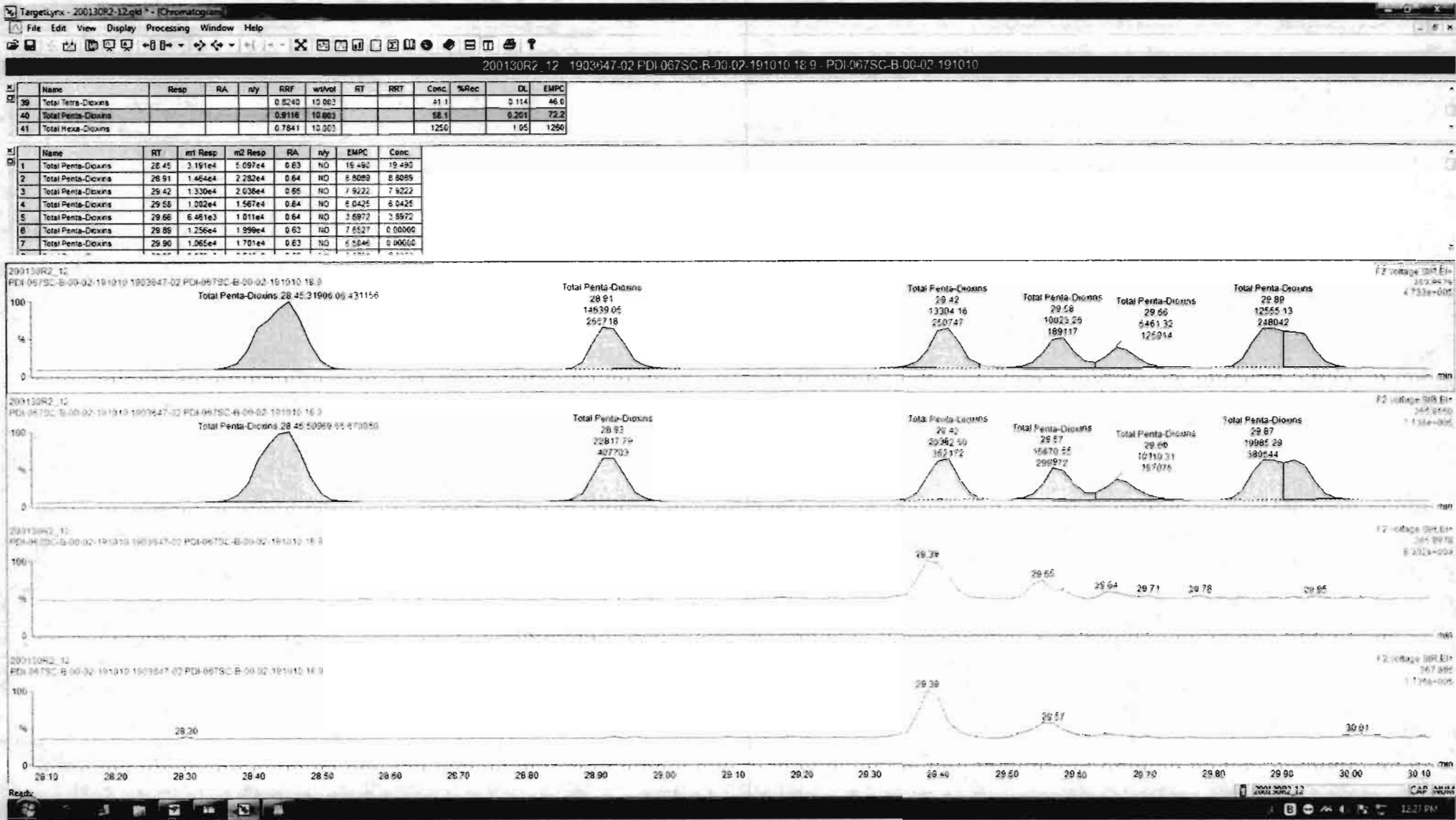
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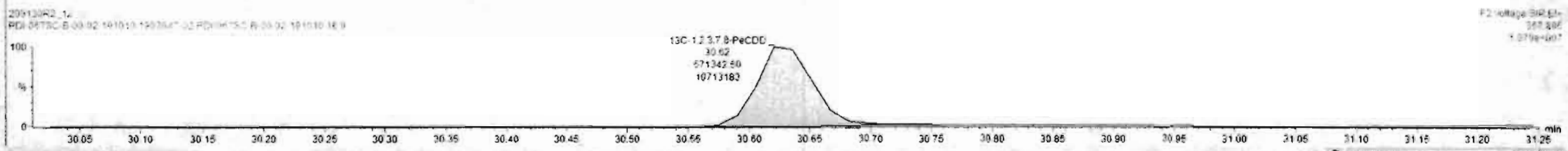
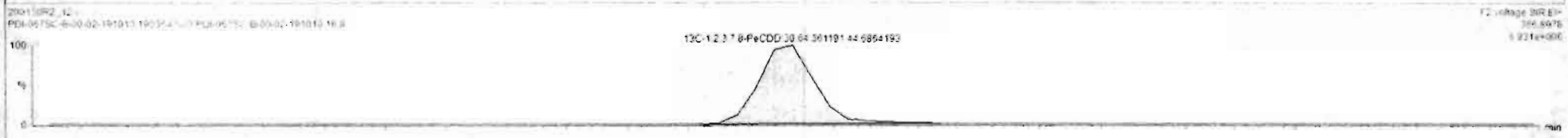
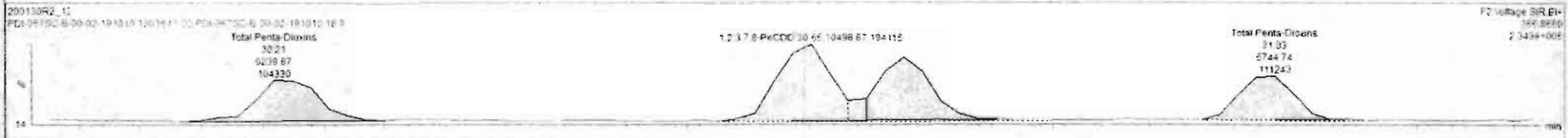
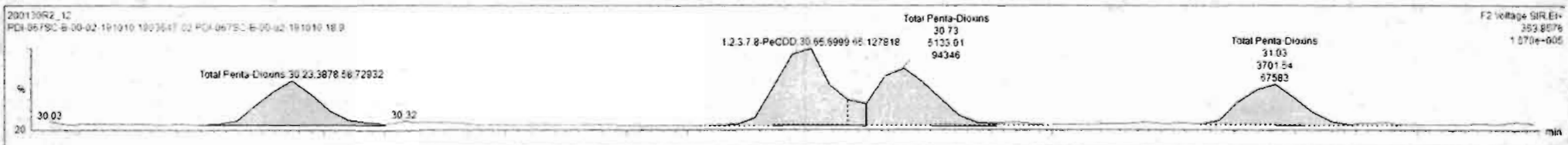
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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8240	10.003			41.1		0.114	46.0
40 Total Penta-Dioxins				0.8116	10.003			57.9		0.201	72.1
41 Total Hexa-Dioxins				0.7841	10.003			125.0		1.05	126.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
5 Total Penta-Dioxins	29.66	6.461e3	1.011e4	0.64	NQ	3.8972	3.8972
6 Total Penta-Dioxins	29.69	1.256e4	1.899e4	0.62	NQ	7.6527	0.00000
7 Total Penta-Dioxins	29.56	1.085e4	1.701e4	0.63	NQ	6.5046	0.00000
8 Total Penta-Dioxins	30.23	3.879e3	6.240e3	0.62	NQ	2.3796	2.3796
9 1,2,3,7,8-PeCDD	30.65	7.000e3	1.050e4	0.67	NQ	4.1152	4.1152
10 Total Penta-Dioxins	30.72	5.132e3	7.758e3	0.66	NQ	3.0316	3.0316
11 Total Penta-Dioxins	31.03	3.702e3	5.745e3	0.64	NQ	2.2215	2.2215



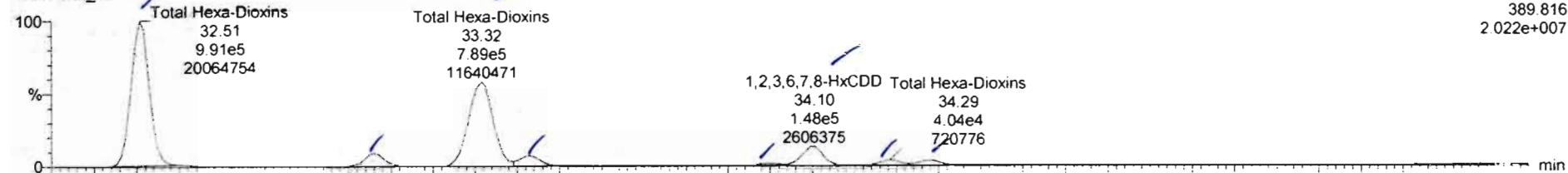
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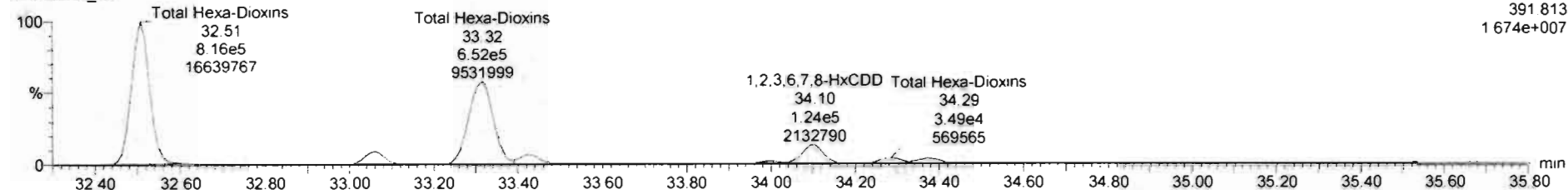
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1,2,3,4,7,8-HxCDD

200130R2_12

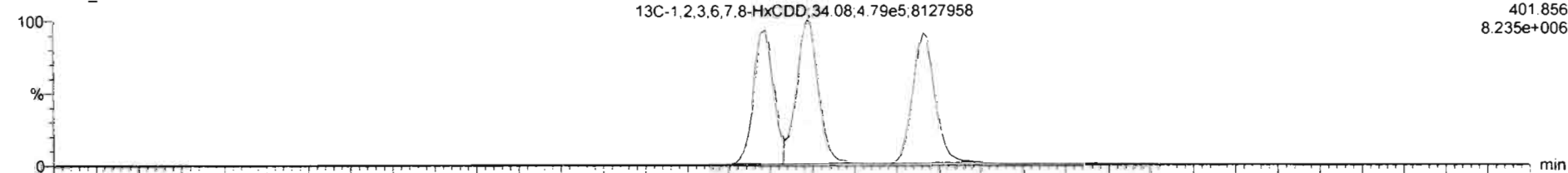


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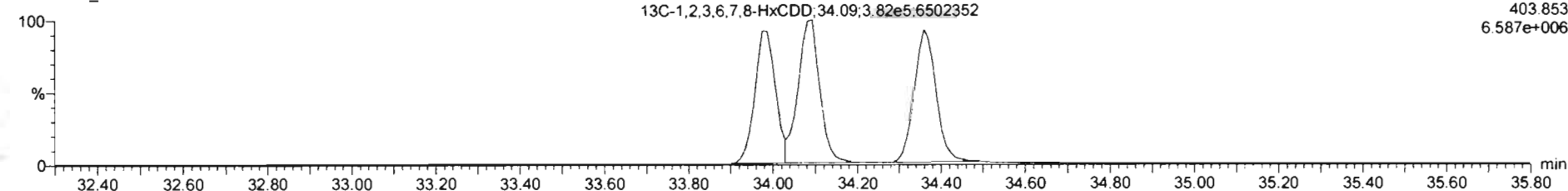


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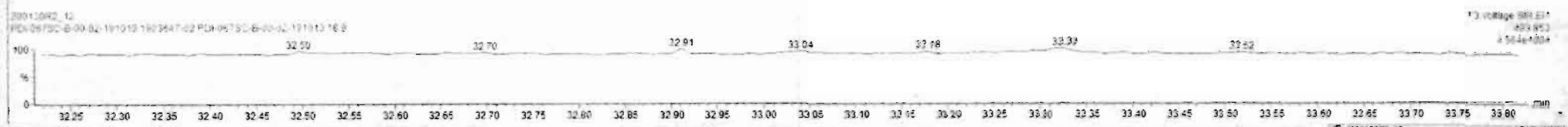
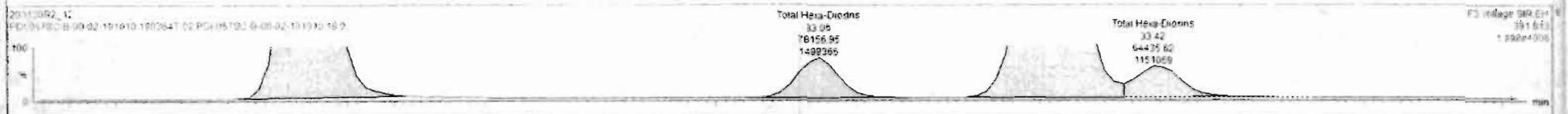
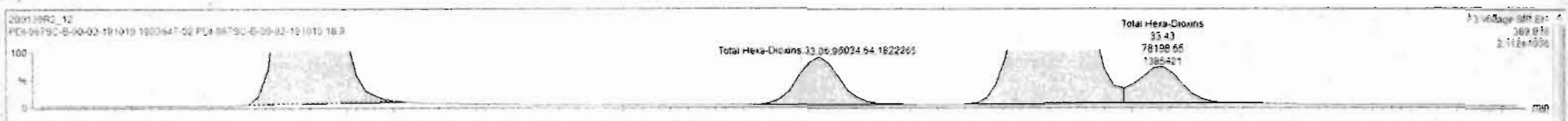


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Name	Resp	RA	nly	RRF	wtdvol	RT	RRT	Conc	%Rec	DL	EMPC
36 Total Tetra-Dioxins				0.8240	10.003			41.1		0.114	46.0
40 Total Penta-Dioxins				0.8116	10.003			57.9		0.261	72.1
41 Total Hexa-Dioxins				0.7841	10.003			1260		1.05	1280

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	32.51	9.950e5	8.157e5	1.22	NO	567.88	567.88
2 Total Hexa-Dioxins	33.08	9.603e4	7.816e4	1.22	NO	54.629	54.629
3 Total Hexa-Dioxins	33.32	7.892e5	6.521e5	1.21	NO	452.00	452.00
4 Total Hexa-Dioxins	33.43	7.620e4	6.444e4	1.21	NO	44.732	44.732
5 1,2,3,4,7,8-HxCDD	34.00	1.616e4	1.355e4	1.19	NO	8.9475	8.9475
6 1,2,3,6,7,8-HxCDD	34.10	1.477e5	1.239e5	1.19	NO	80.413	80.413
7 Total Hexa-Dioxins	34.26	4.038e4	3.490e4	1.16	NO	23.611	23.611
8 1,2,3,7,8,9-HxCDD	34.38	4.074e4	3.391e4	1.20	NO	22.941	22.941
9 Total Hexa-Dioxins	35.01	3.982e3	2.222e3	1.75	-ES	1.5607	0.00600



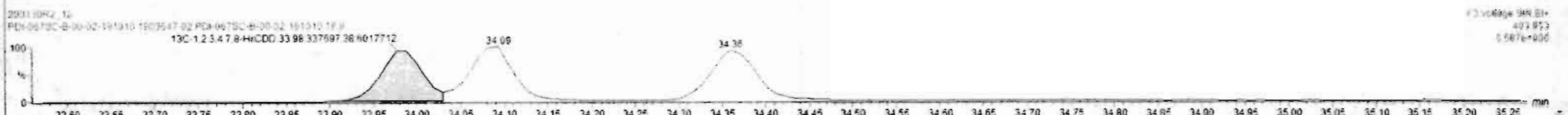
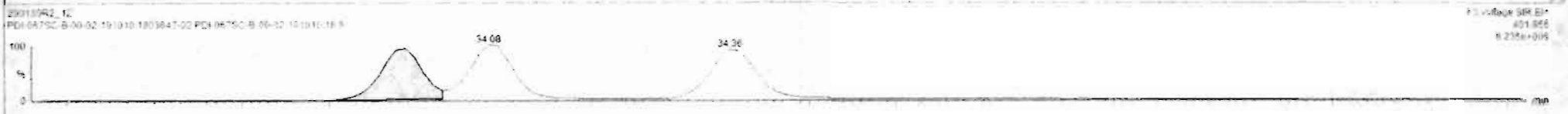
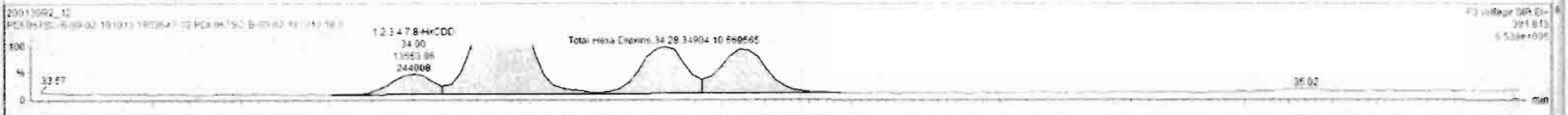
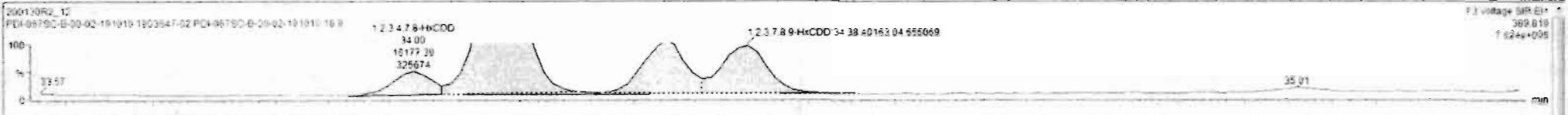
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200130R2_12 1903647-02 PDI-06/SC-B-00-02 191010 18 9 - PDI-067SC-B-00-02-191010

#	Name	Resp	RA	nly	RRF	wtMol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.003			41.1		0.114	46.0
40	Total Penta-Dioxins				0.9116	10.003			57.9		0.201	72.1
41	Total Hexa-Dioxins				0.7841	10.003			1260		1.05	1260

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Hexa-Dioxins	32.51	9.950e5	8.157e5	1.22	NO	567.88	567.88
2	Total Hexa-Dioxins	33.08	9.603e4	7.816e4	1.23	NO	54.629	54.629
3	Total Hexa-Dioxins	33.32	7.892e5	6.521e5	1.21	NO	452.00	452.00
4	Total Hexa-Dioxins	33.43	7.820e4	6.444e4	1.21	NO	44.732	44.732
5	1,2,3,4,7,8-HxCDD	34.00	1.618e4	1.355e4	1.19	NO	8.9475	8.9475
6	1,2,3,6,7,8-HxCDD	34.10	1.506e5	1.239e5	1.21	NO	81.071	81.071
7	Total Hexa-Dioxins	34.29	4.120e4	3.490e4	1.18	NO	23.867	23.867
8	1,2,3,7,8,9-HxCDD	34.38	4.016e4	3.391e4	1.18	NO	22.765	22.765



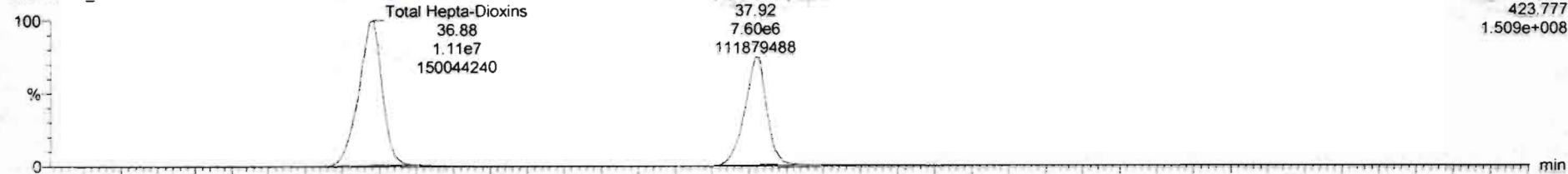
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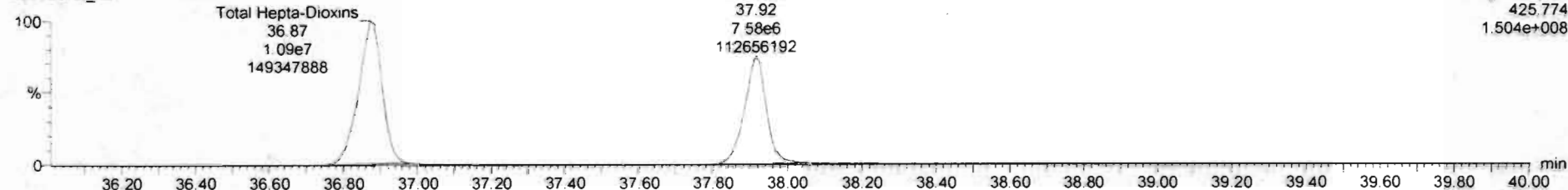
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1,2,3,4,6,7,8-HpCDD

200130R2_12

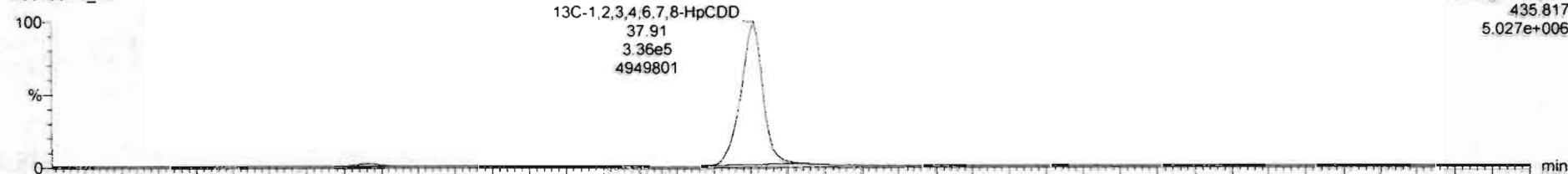


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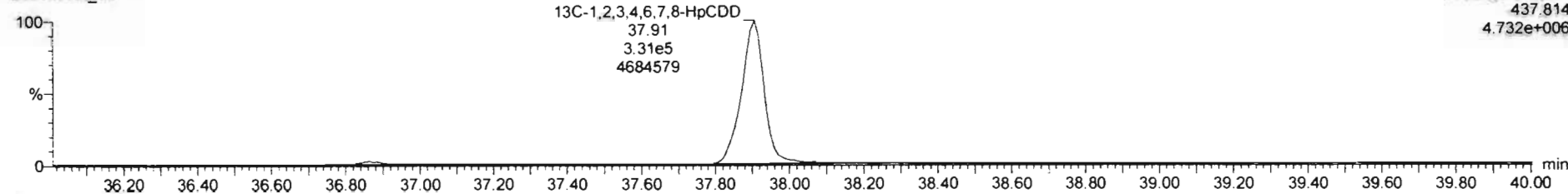


13C-1,2,3,4,6,7,8-HpCDD

200130R2_12



200130R2_12



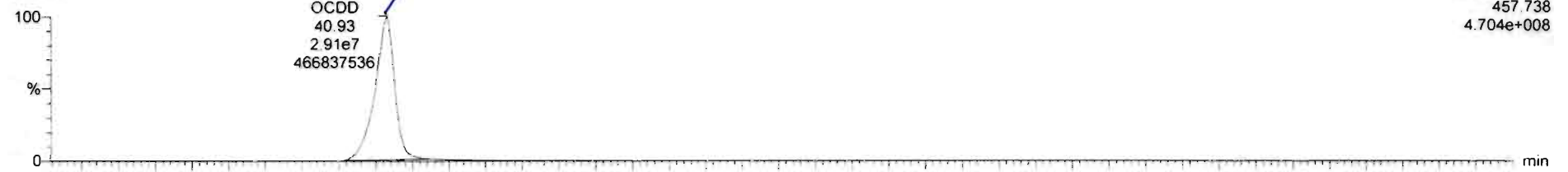
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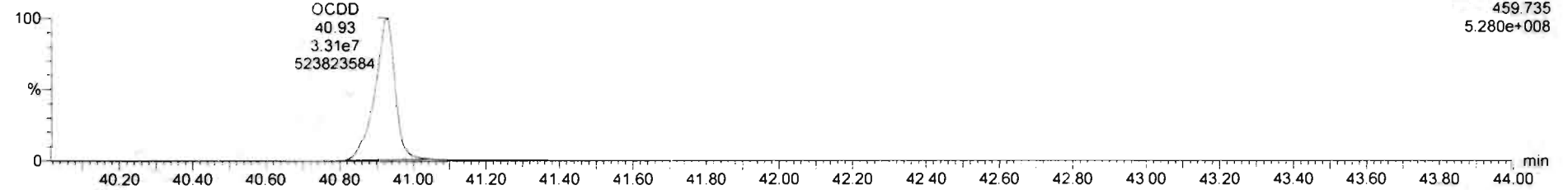
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200130R2_12

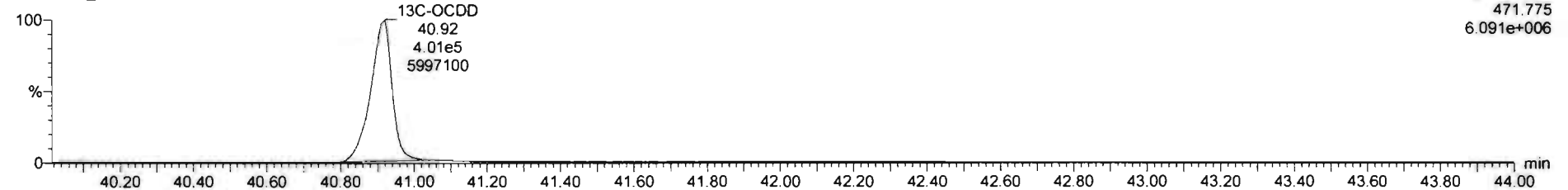


13C-OCDD

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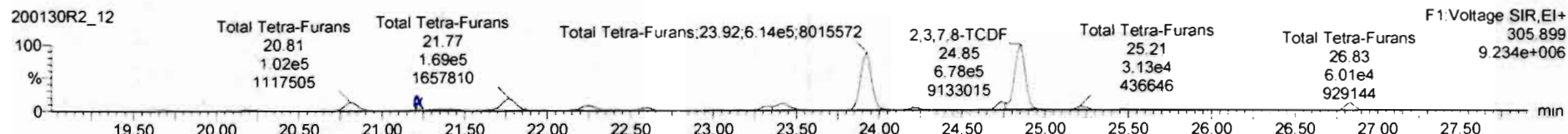
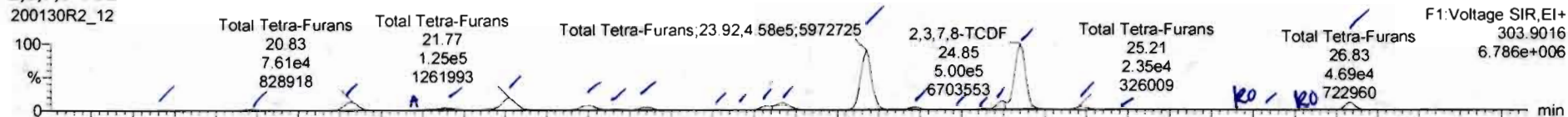


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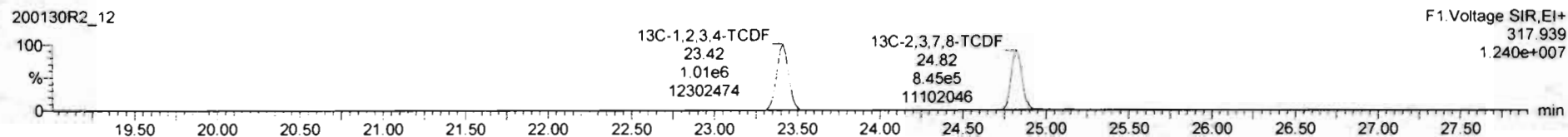
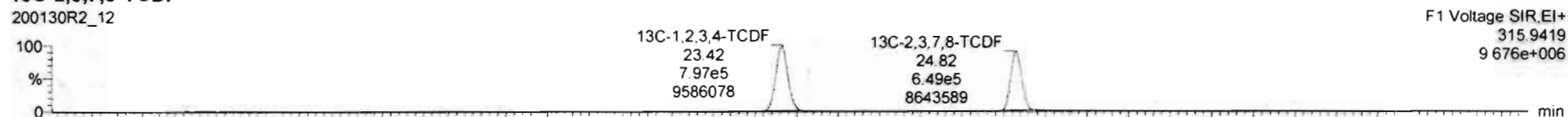
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Name: 200130R2_12, Date: 30-Jan-2020, Time: 23:03:32, ID: 1903647-02 PDI-067SC-B-00-02-191010 18.9, Description: PDI-067SC-B-00-02-191010

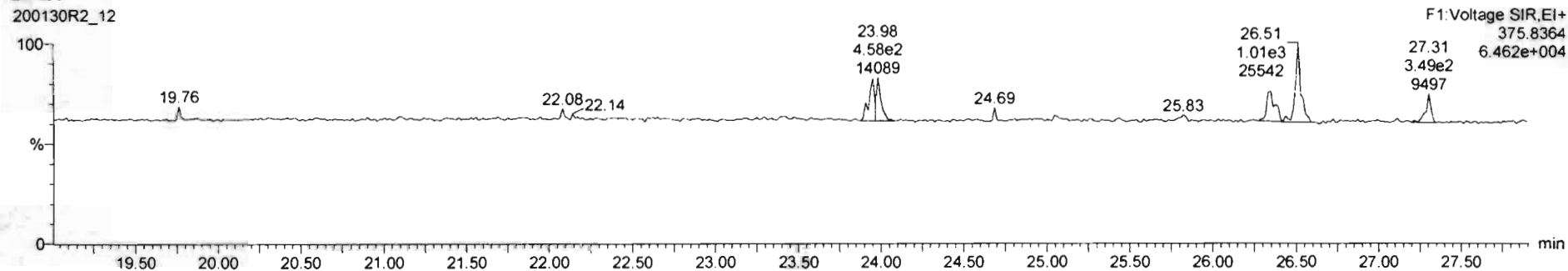
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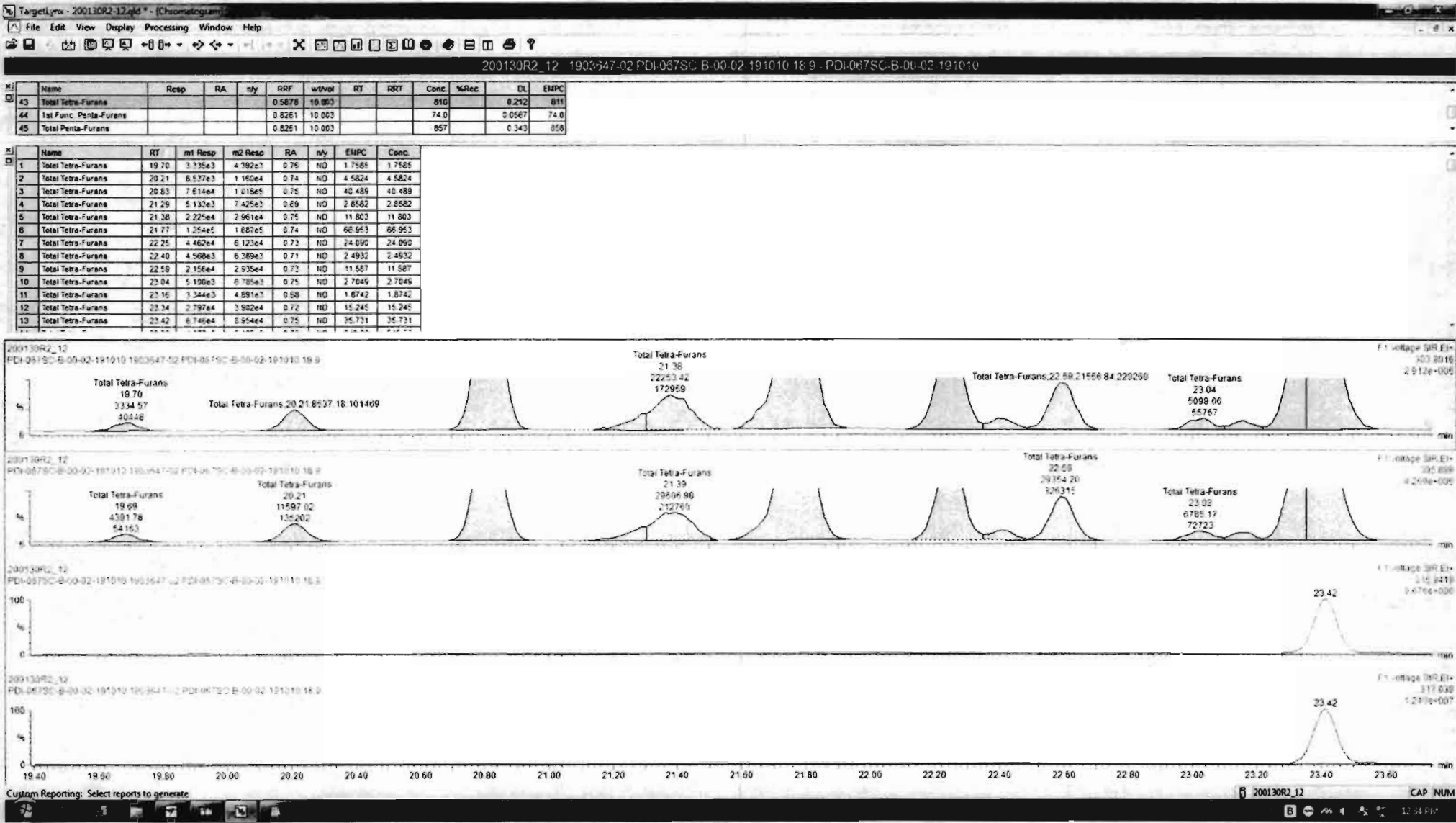


13C-2,3,7,8-TCDF



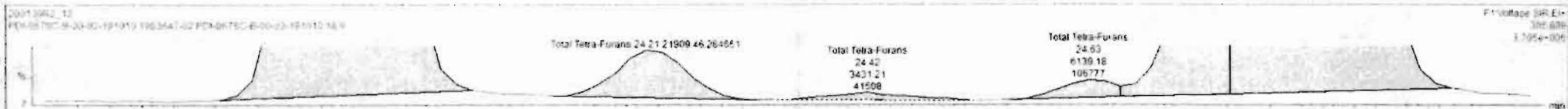
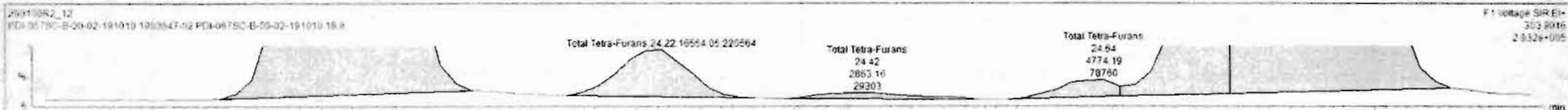
DPE1

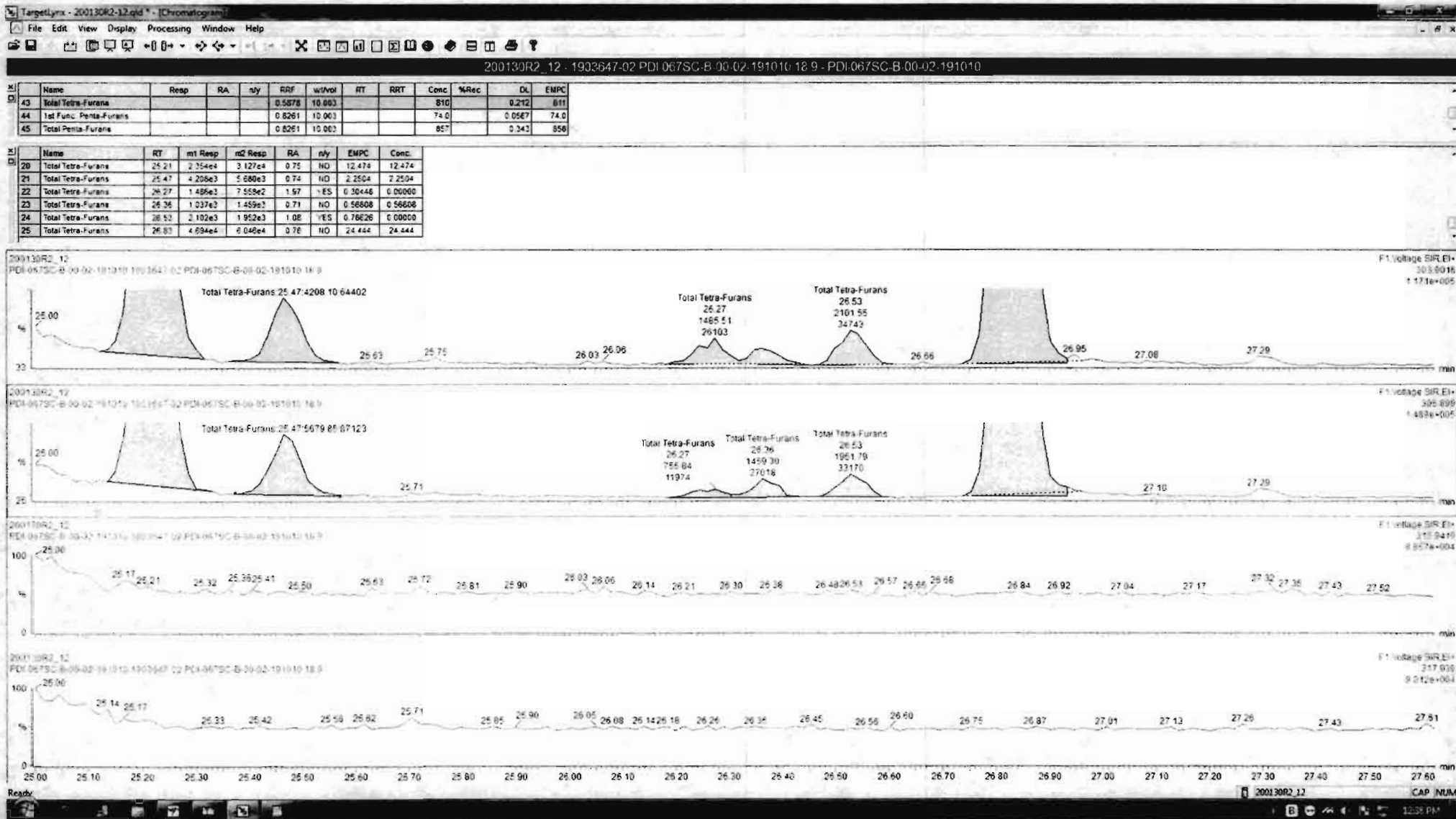




Name	Resp	RA	aly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.5878	10.003			810	0.212	811	
44 1st Func. Penta-Furans				0.8261	10.003			74.0	0.0567	74.0	
45 Total Penta-Furans				0.8261	10.003			667	0.343	656	

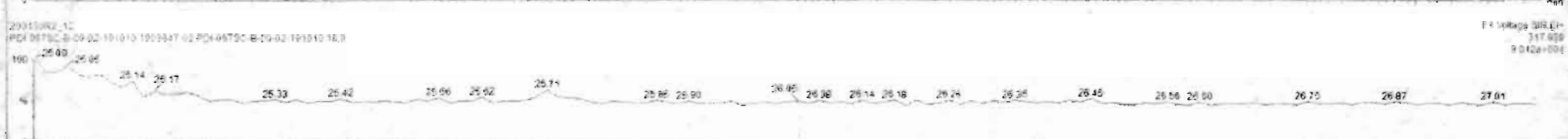
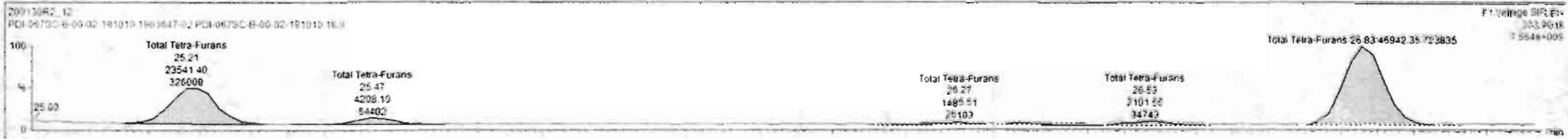
Name	RT	m1 Resp	m2 Resp	RA	aly	EMPC	Conc.
1 Total Tetra-Furans	19.70	3.335e3	4.392e3	0.76	ND	1.7586	1.7586
2 Total Tetra-Furans	20.21	6.537e3	1.160e4	0.74	ND	4.5824	4.5824
3 Total Tetra-Furans	20.83	7.614e4	1.018e5	0.75	ND	40.489	40.489
4 Total Tetra-Furans	21.29	5.133e3	7.425e3	0.69	ND	2.8582	2.8582
5 Total Tetra-Furans	21.38	2.225e4	2.961e4	0.75	ND	11.803	11.803
6 Total Tetra-Furans	21.77	1.254e5	1.687e5	0.74	ND	86.953	86.953
7 Total Tetra-Furans	22.25	4.482e4	6.123e4	0.73	ND	24.690	24.690
8 Total Tetra-Furans	22.40	4.566e3	6.389e3	0.71	ND	2.4932	2.4932
9 Total Tetra-Furans	22.59	2.156e4	2.935e4	0.73	ND	11.587	11.587
10 Total Tetra-Furans	23.04	5.100e3	6.785e3	0.75	ND	2.7049	2.7049
11 Total Tetra-Furans	23.16	3.344e2	4.861e2	0.68	ND	1.8742	1.8742
12 Total Tetra-Furans	23.34	2.797e4	3.902e4	0.72	ND	15.245	15.245
13 Total Tetra-Furans	23.42	6.746e4	8.954e4	0.75	ND	35.731	35.731





Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.5878	10.003			810	0.212	811	
44 1st Func. Penta-Furans				0.8261	10.003			740	0.0587	740	
45 Total Penta-Furans				0.8261	10.003			657	0.343	656	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
20 Total Tetra-Furans	25.21	2.35e4	3.127e4	0.75	NO	12.474	12.474
21 Total Tetra-Furans	25.47	4.206e3	5.690e3	0.74	NO	2.2504	2.2504
22 Total Tetra-Furans	26.27	1.486e3	7.558e2	1.97	YES	0.30448	0.00000
23 Total Tetra-Furans	26.53	1.037e3	1.459e2	0.71	NO	0.56809	0.56808
24 Total Tetra-Furans	26.53	2.102e3	1.952e3	1.08	YES	0.76826	0.00000
25 Total Tetra-Furans	26.83	4.694e4	0.046e4	0.78	NO	24.444	24.444



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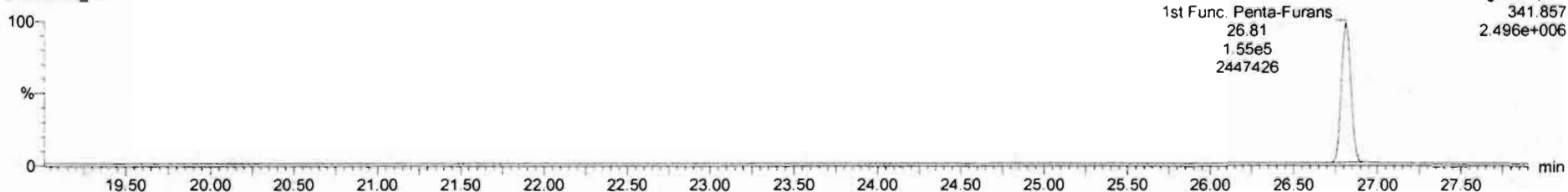
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1st Func. Penta-Furans

200130R2_12

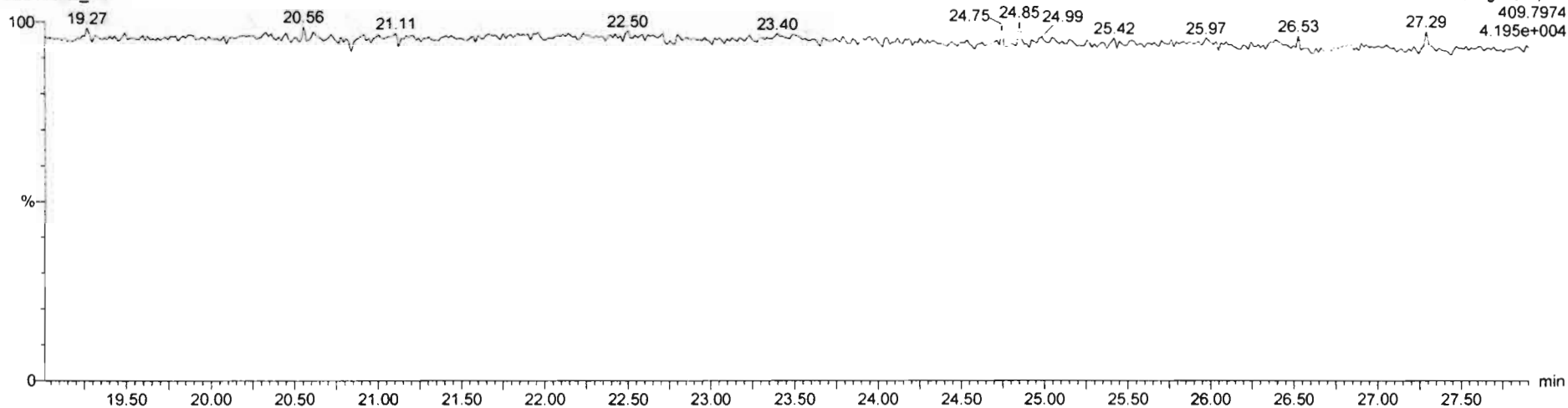


200130R2_12



DPE6

200130R2_12

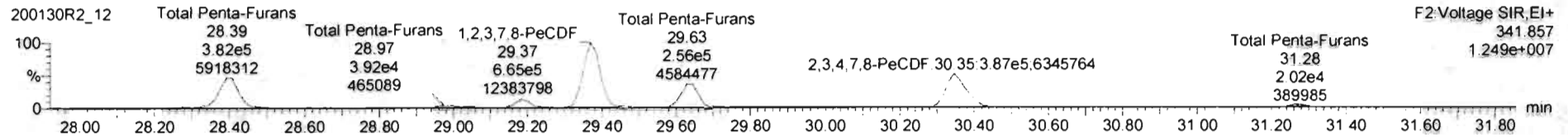
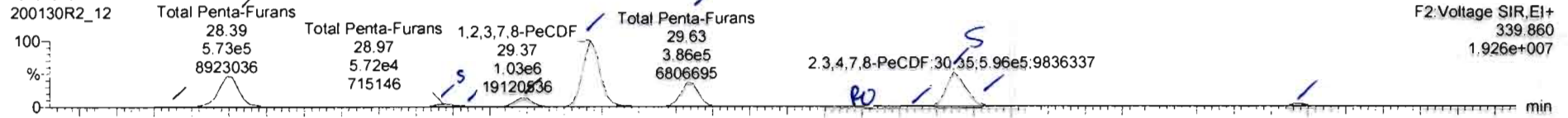


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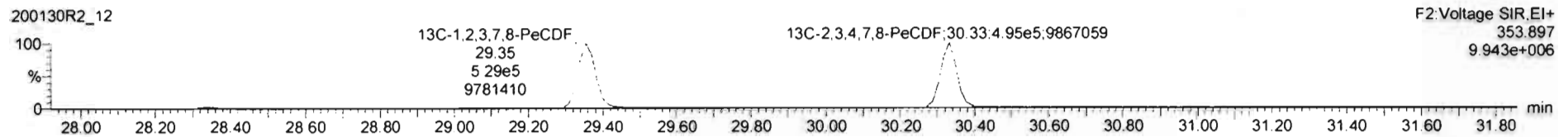
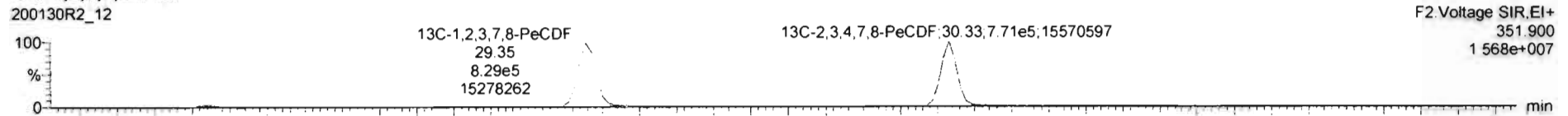
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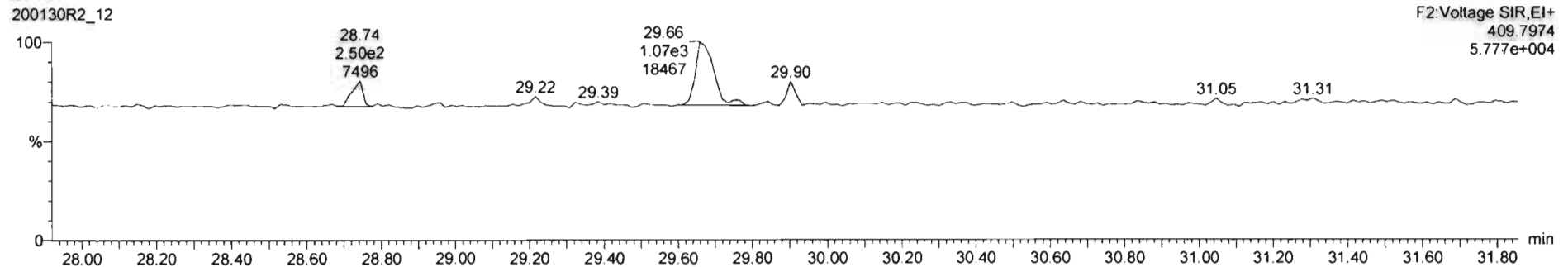
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13C-1,2,3,7,8-PeCDF

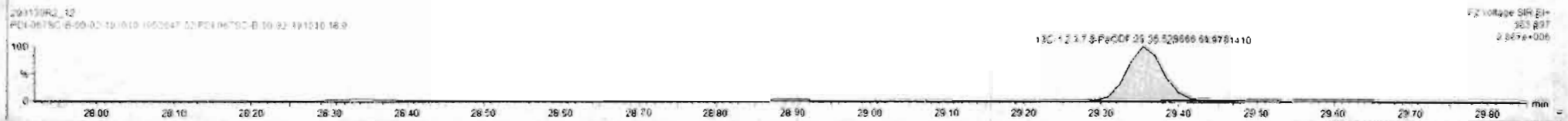
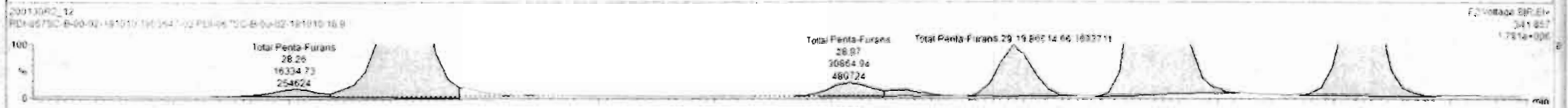
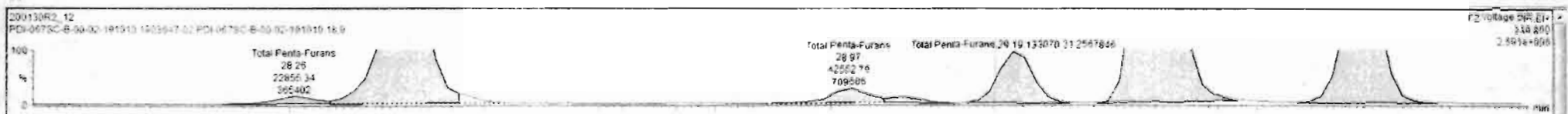


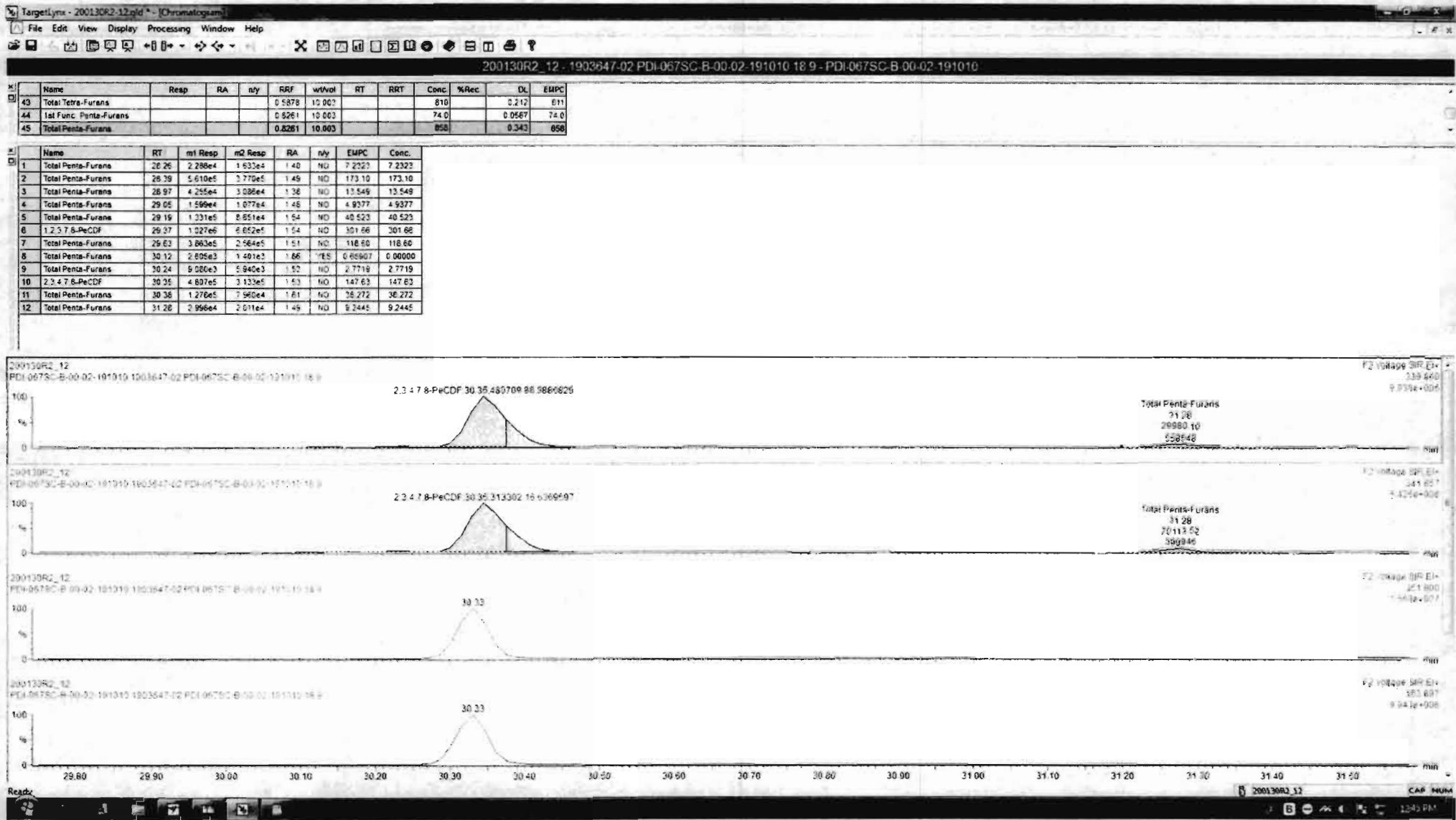
DPE2



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec.	DL	EMPC
43 Total Tetra-Furans	0.5378	10.003						810	0.212	611	
44 1st Func. Penta-Furans				0.8261	10.003			74.0	0.0567	74.0	
45 Total Penta-Furans				0.8261	10.003			654	0.343	655	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.26	3.29E+4	1.633E+4	1.40	NO	7.2323	7.2323
2 Total Penta-Furans	28.39	5.610E5	3.772E5	1.49	NO	173.10	173.10
3 Total Penta-Furans	28.97	4.255E+4	3.086E+4	1.36	NO	12.549	12.549
4 Total Penta-Furans	29.05	1.590E+4	1.077E+4	1.48	NO	4.9377	4.9377
5 Total Penta-Furans	29.19	1.321E5	8.651E+4	1.54	NO	40.523	40.523
6 1,2,3,7,8-PeCDF	29.97	1.927E6	6.652E+5	1.54	NO	301.66	301.66
7 Total Penta-Furans	29.63	3.963E5	2.564E+5	1.51	NO	118.60	118.60
8 Total Penta-Furans	30.12	1.545E3	1.051E+3	1.76	NO	0.53454	0.53454
9 Total Penta-Furans	30.24	7.165E3	5.069E+3	1.41	NO	2.2578	2.2578
10 2,3,4,7,8-PeCDF	30.35	5.962E5	3.670E+5	1.54	NO	162.75	162.75
11 Total Penta-Furans	30.65	1.494E3	6.160E+2	2.40	YES	0.29060	0.00000
12 Total Penta-Furans	31.28	3.014E+4	2.016E+4	1.50	NO	9.2835	9.2835
13 Total Penta-Furans	31.51	1.492E3	5.196E+2	2.87	YES	0.24460	0.00000





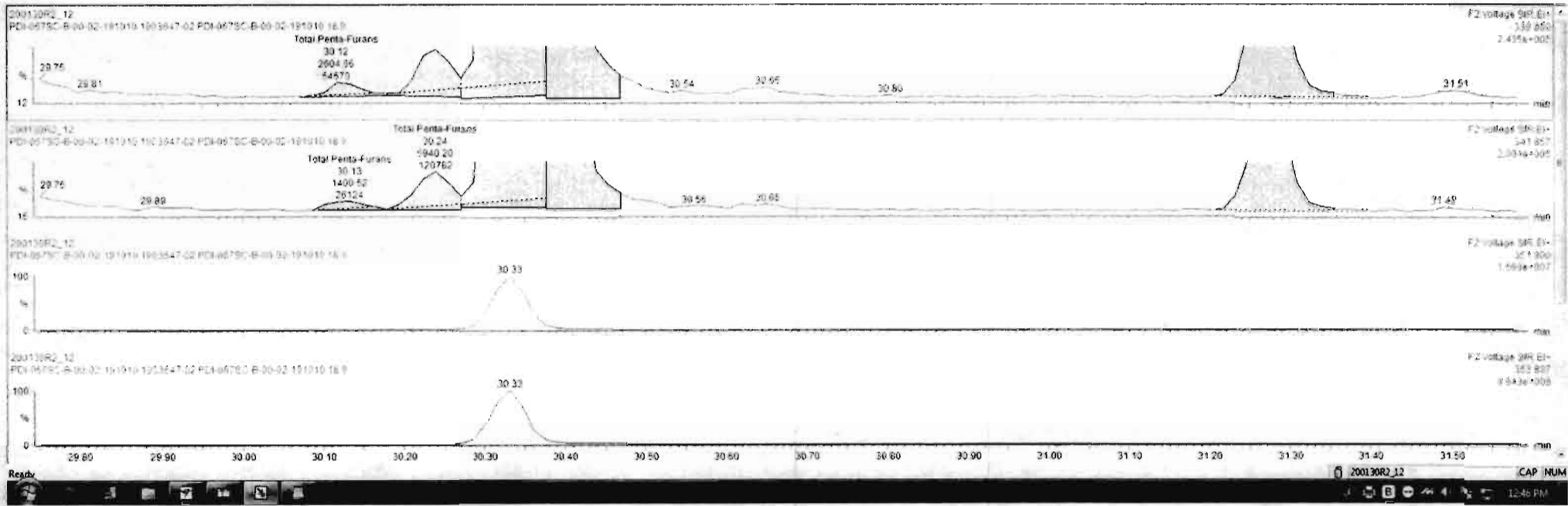
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200130R2_12 - 1903647-02 PDI-067SC-B-00-02-191010 18 9 - PDI-067SC-B-00-02-191010

Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.5878	10.002			810	0.212	811	
44 1st Func. Penta-Furans				0.8261	10.003			740	0.0667	740	
45 Total Penta-Furans				0.8261	10.003			856	0.343	856	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.26	2.288e4	1.633e4	1.40	NO	7.2323	7.2323
2 Total Penta-Furans	28.39	5.610e5	3.770e5	1.49	NO	173.10	173.10
3 Total Penta-Furans	28.57	4.255e4	3.008e4	1.36	NO	11.549	11.549
4 Total Penta-Furans	29.05	1.599e4	1.077e4	1.45	NO	4.9377	4.9377
5 Total Penta-Furans	29.19	1.331e5	8.851e4	1.54	NO	40.523	40.523
6 1,2,3,7,8-PeCDF	29.37	1.027e6	6.652e5	1.54	NO	301.66	301.66
7 Total Penta-Furans	29.63	3.863e5	2.564e5	1.51	NO	118.60	118.60
8 Total Penta-Furans	30.12	2.695e3	1.401e2	1.86	YES	0.65907	0.00000
9 Total Penta-Furans	30.24	9.080e3	5.940e3	1.53	NO	2.7719	2.7719
10 2,3,4,7,8-PeCDF	30.35	4.807e5	3.133e5	1.53	NO	147.83	147.83
11 Total Penta-Furans	30.38	1.276e5	7.960e4	1.61	NO	38.272	38.272
12 Total Penta-Furans	31.28	2.996e4	2.011e4	1.49	NO	9.2445	9.2445



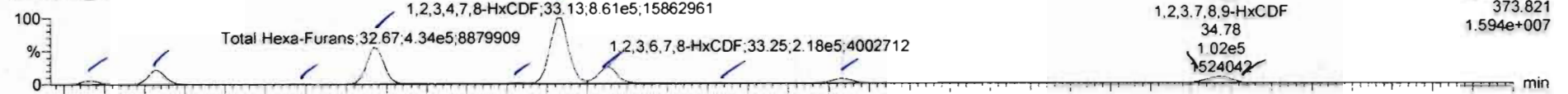
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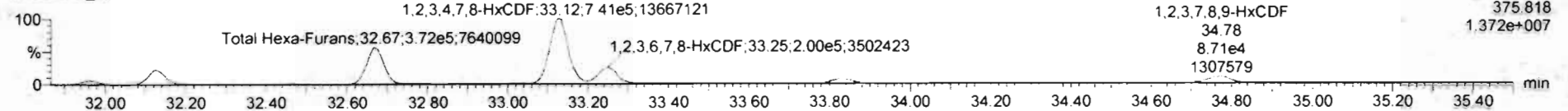
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1,2,3,4,7,8-HxCDF

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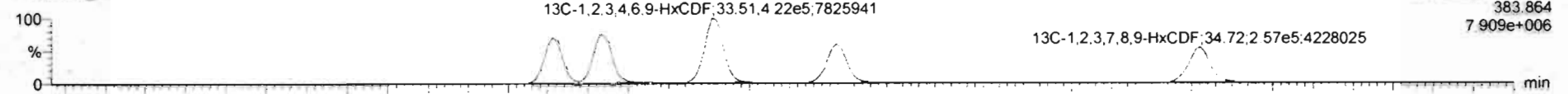


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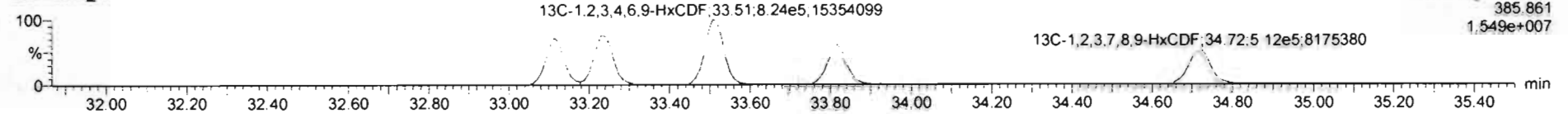


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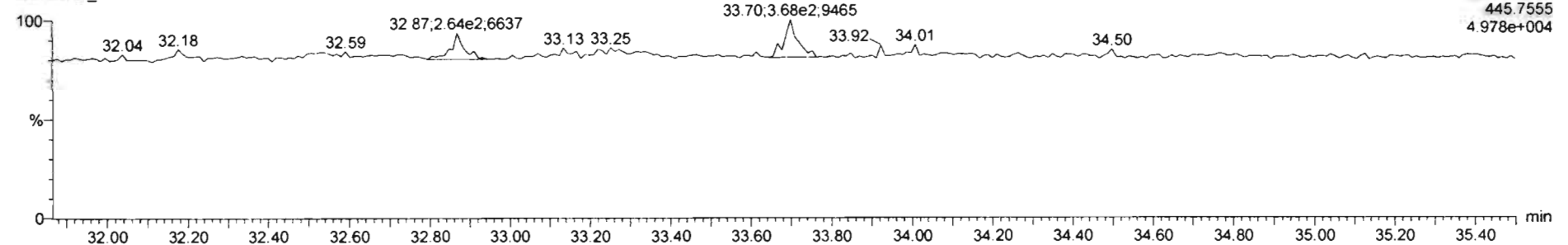


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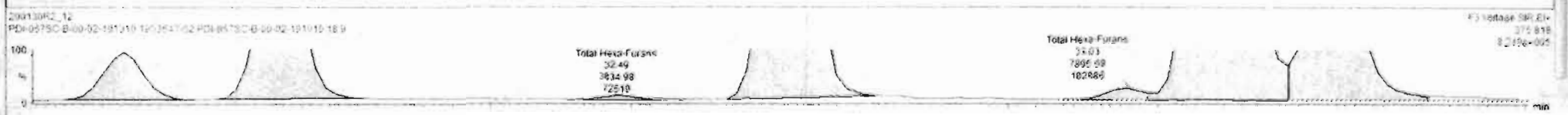
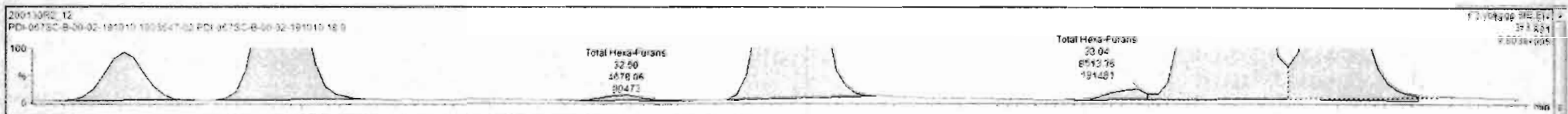
DPE3

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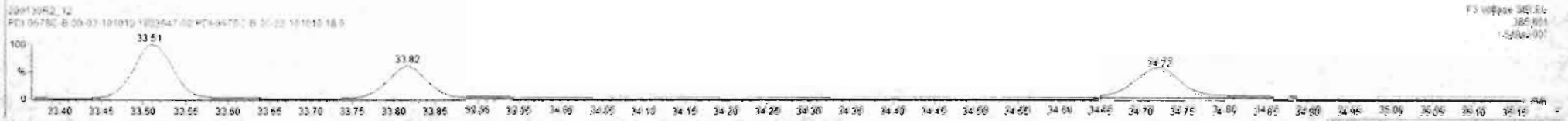
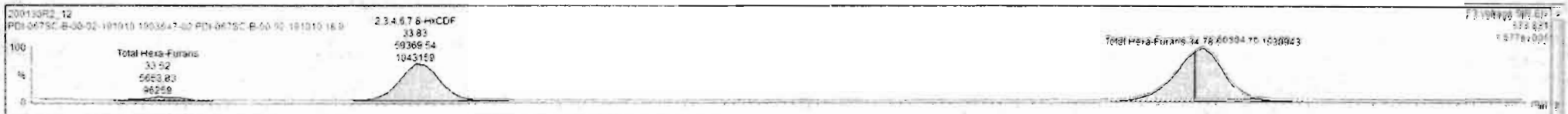
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.5878	10.003			810	0.212	611	
44 1st Func. Penta-Furans				0.8261	10.003			74.0	0.0567	74.0	
45 Total Penta-Furans				0.8261	10.003			856	0.343	856	

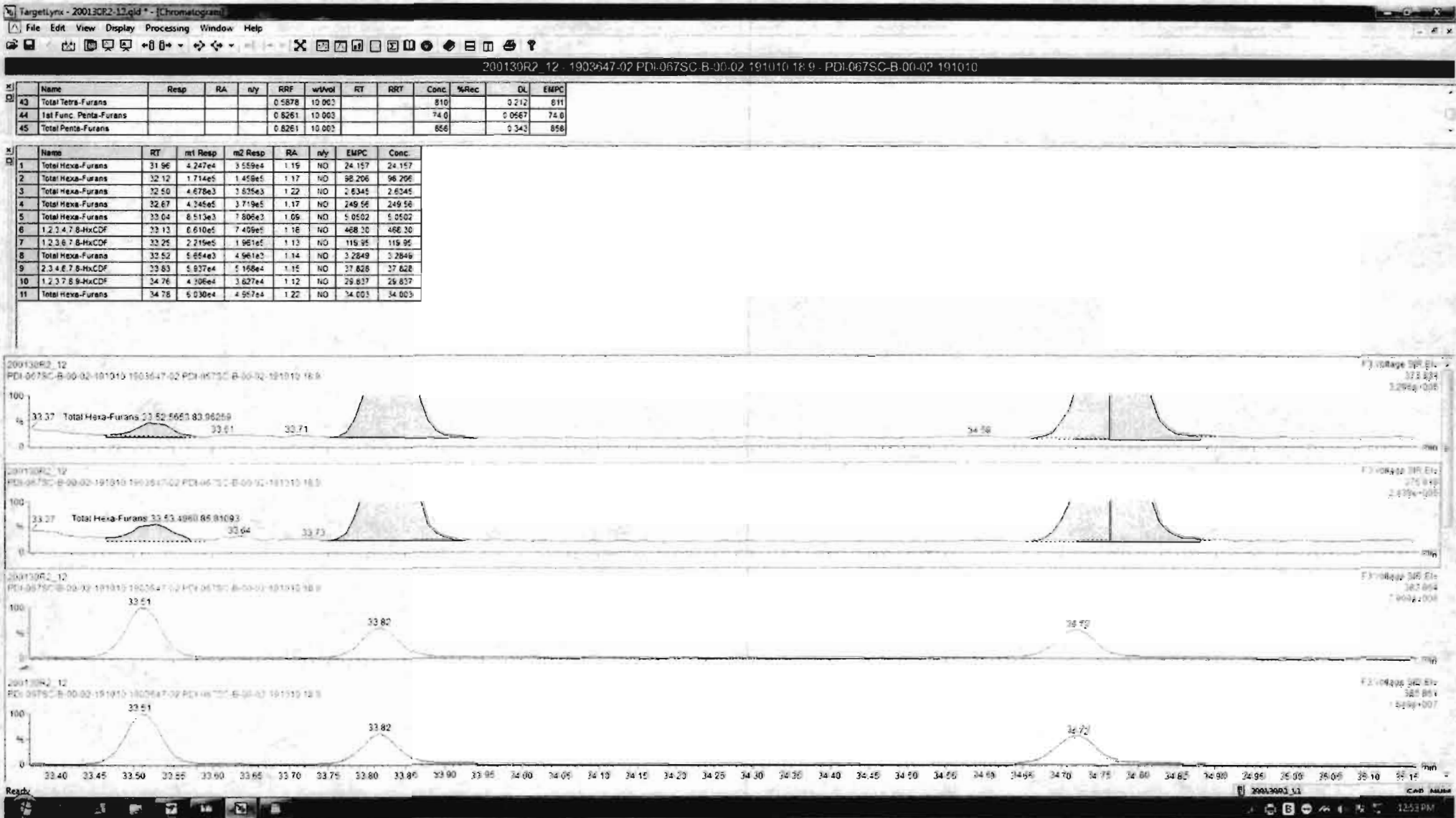
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	31.96	4.247e4	3.559e4	1.19	NO	24.157	24.157
2 Total Hexa-Furans	32.12	1.714e5	1.459e5	1.17	NO	98.206	98.206
3 Total Hexa-Furans	32.50	4.676e3	3.835e3	1.22	NO	2.6345	2.6345
4 Total Hexa-Furans	32.67	4.345e5	3.719e5	1.17	NO	249.56	249.56
5 Total Hexa-Furans	33.04	8.513e3	7.606e3	1.09	NO	5.0502	5.0502
6 1,2,3,4,7,8-HxCDF	33.13	6.810e5	7.409e5	1.16	NO	468.30	468.30
7 1,2,3,6,7,8-HxCDF	33.25	2.219e5	1.961e5	1.13	NO	119.95	119.95
8 Total Hexa-Furans	33.52	4.363e3	5.265e3	0.83	YES	2.4392	0.00000
9 Total Hexa-Furans	33.61	9.445e2	1.166e3	0.81	YES	0.52815	0.00000
10 Total Hexa-Furans	33.71	4.824e2	5.491e2	0.86	YES	0.26969	0.00000
11 2,3,4,6,7,8-HxCDF	33.82	5.937e4	5.188e4	1.15	NO	37.628	37.628
12 1,2,3,7,8,9-HxCDF	34.78	1.021e5	8.709e4	1.17	NO	65.404	69.404
13 Total Hexa-Furans	35.69	1.254e3	6.236e2	2.01	YES	0.43225	0.00000



Name	Resp	RA	nly	RRF	wtwt	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.5878	10.003			810	0.212	6.11	
44 1st Func. Penta-Furans				0.6261	10.003			740	0.0667	74.0	
45 Total Penta-Furans				0.8261	10.003			656	0.343	656	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	31.96	4.247e4	1.558e4	1.15	NO	24.157	24.157
2 Total Hexa-Furans	32.12	1.714e5	1.459e5	1.17	NO	98.206	98.206
3 Total Hexa-Furans	32.50	4.678e3	3.675e3	1.22	NO	2.6345	2.6345
4 Total Hexa-Furans	32.67	4.245e5	3.719e5	1.17	NO	249.56	249.56
5 Total Hexa-Furans	33.04	6.513e3	7.806e2	1.09	NO	5.9502	5.9502
6 1,2,3,4,7,8-HxCDF	33.13	6.610e5	7.409e5	1.16	NO	466.30	466.30
7 1,2,3,6,7,8-HxCDF	33.25	2.219e5	1.961e5	1.13	NO	119.95	119.95
8 Total Hexa-Furans	33.52	5.654e3	4.961e3	1.14	NO	3.2849	3.2849
9 2,3,4,6,7,8-HxCDF	33.63	5.527e4	5.168e4	1.15	NO	37.628	37.628
10 1,2,3,7,8,9-HxCDF	34.76	4.196e4	3.627e4	1.12	NO	29.637	29.637
11 Total Hexa-Furans	34.78	6.030e4	4.957e4	1.22	NO	34.003	34.003





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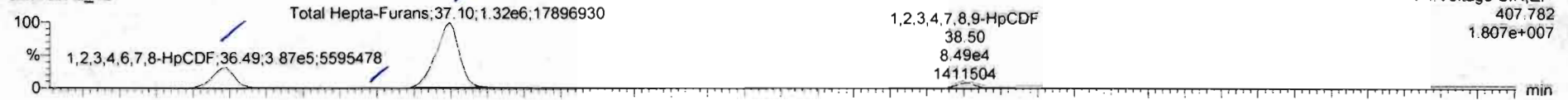
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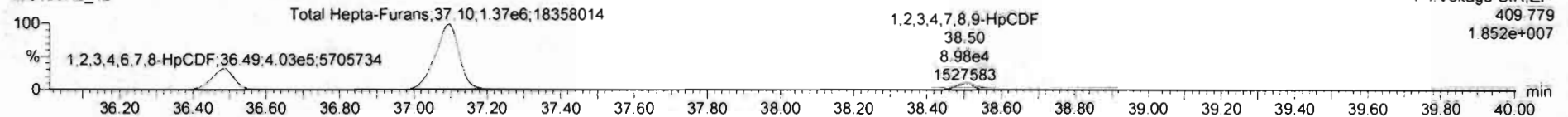
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1,2,3,4,6,7,8-HpCDF

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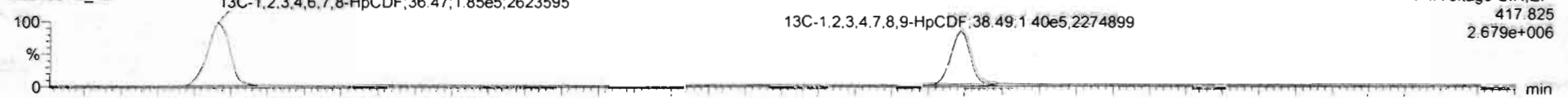


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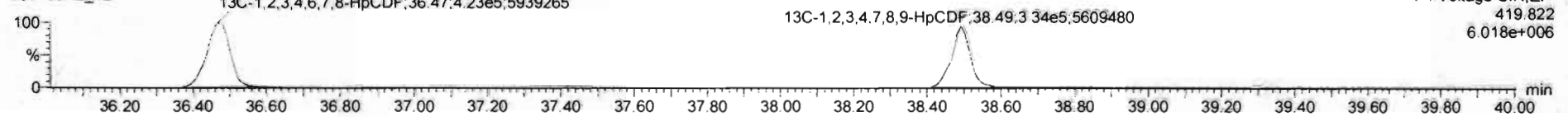


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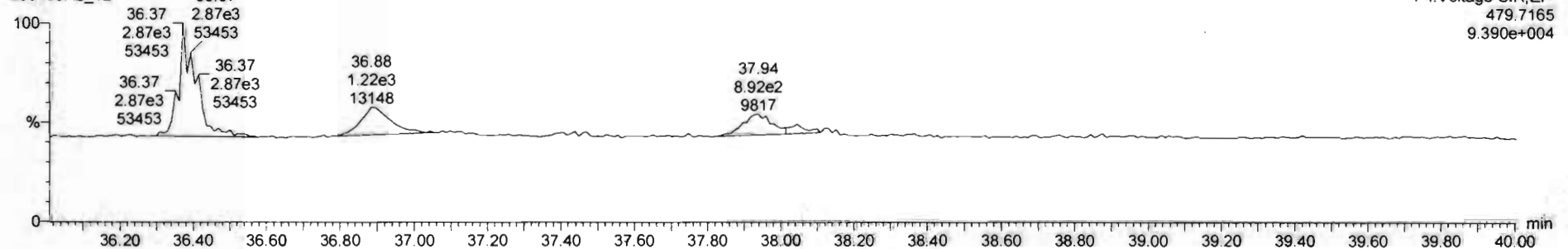


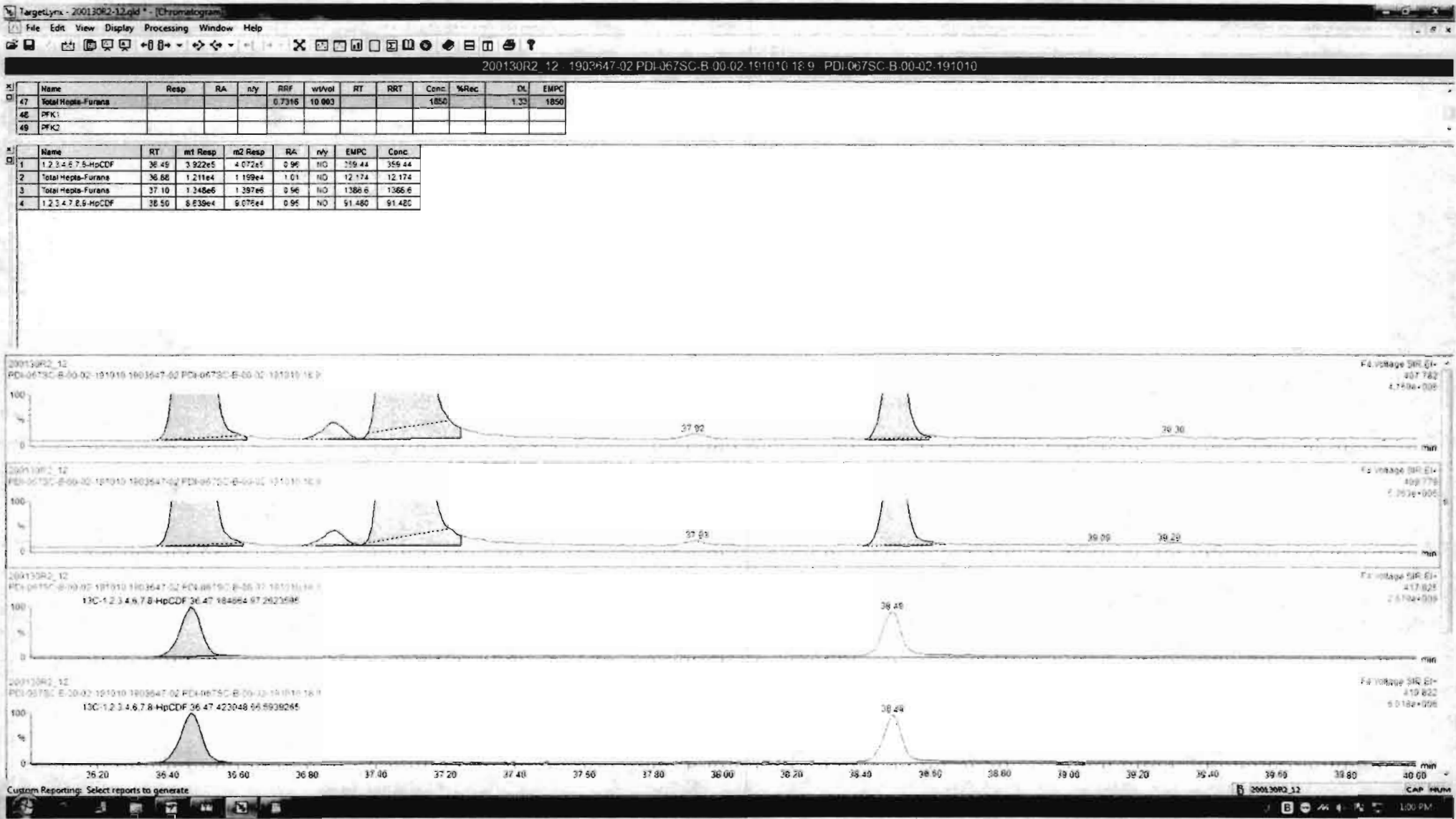
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DPE4

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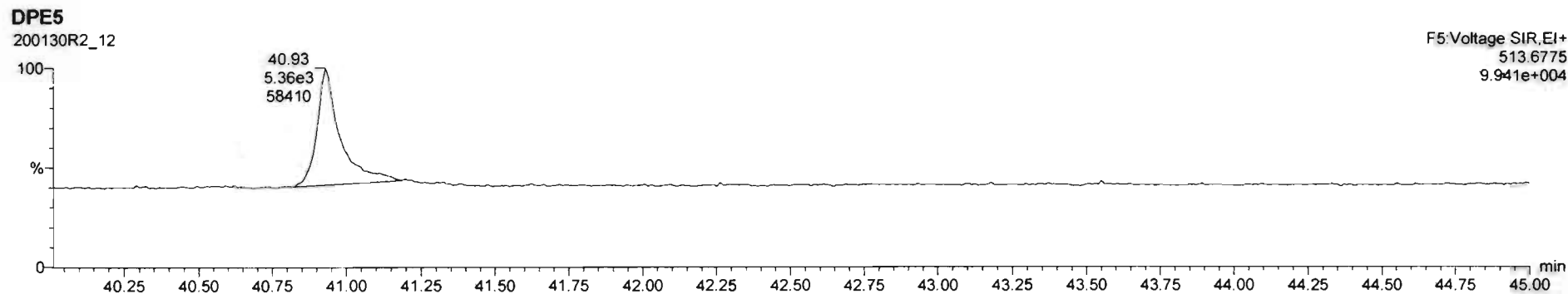
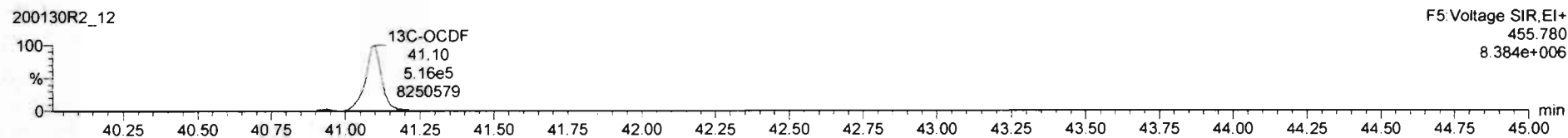
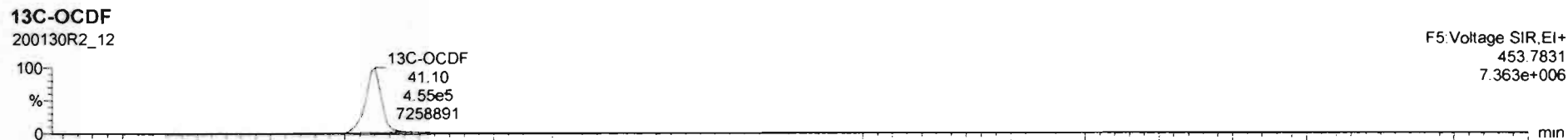
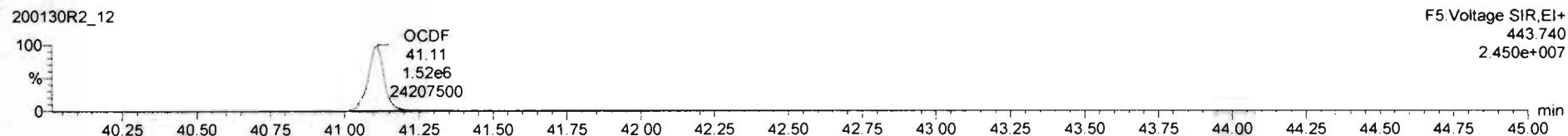
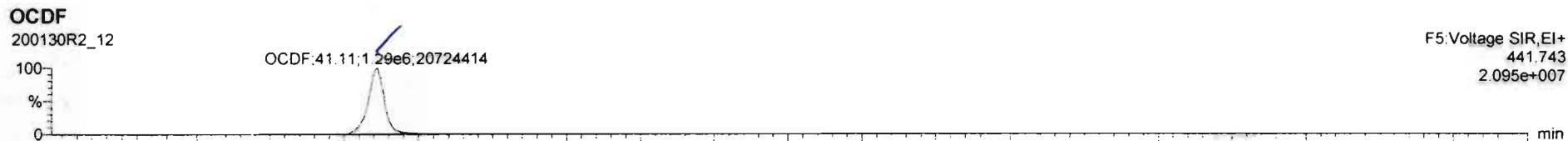




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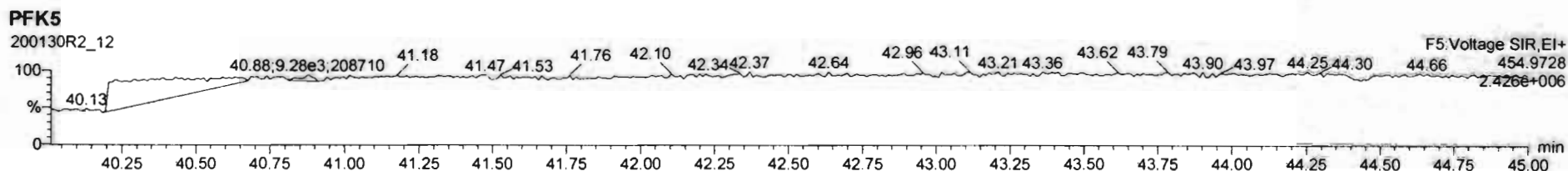
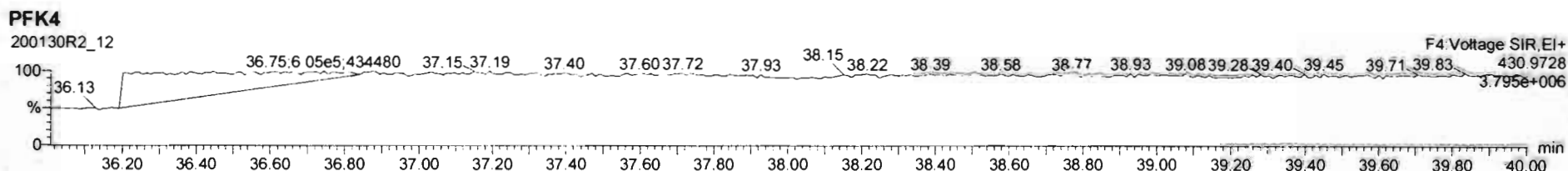
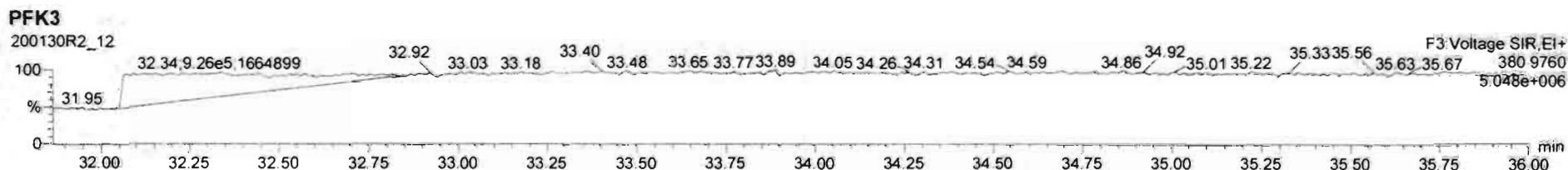
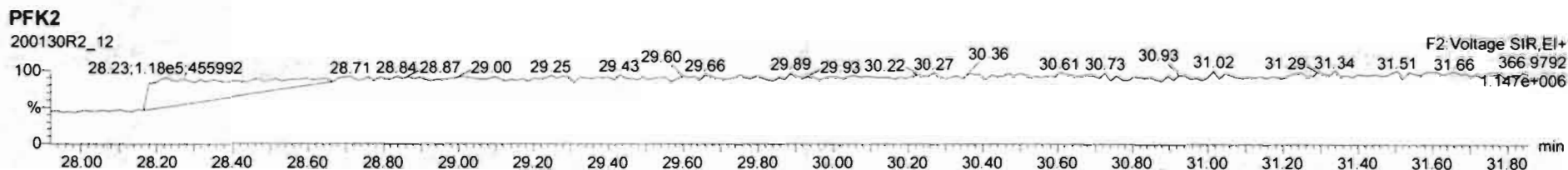
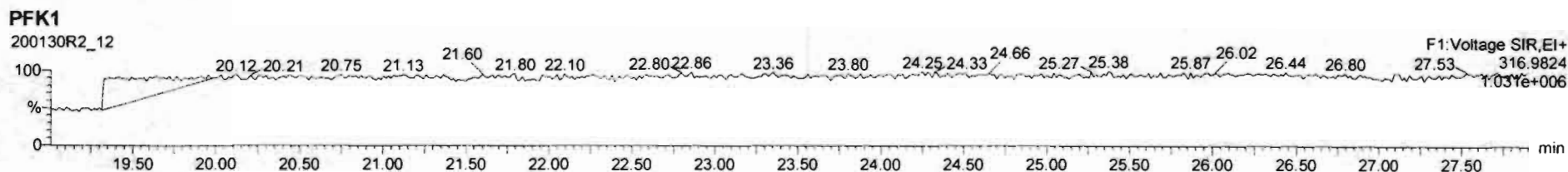
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Name: 200130R2_12, Date: 30-Jan-2020, Time: 23:03:32, ID: 1903647-02 PDI-067SC-B-00-02-191010 18.9, Description: PDI-067SC-B-00-02-191010



Dataset: U:\VG12.PRO\Results\200130R2\200130R2-13.qld

Last Altered: Tuesday, February 04, 2020 14:56:19 Pacific Standard Time

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BL 02/04/2020

C7 02/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R2_13, Date: 30-Jan-2020, Time: 23:50:32, ID: 1903647-03 PDI-067SC-B-02-04-191010 17.58, Description: PDI-067SC-B-02-04-191010

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.824	10.157	25.74		1.00		NO			0.105	
2	2 1,2,3,7,8-PeCDD	771.329	0.903	YES	0.912	10.157	30.66	30.67	1.00	1.00	NO	0.1519		0.104	0.1301
3	3 1,2,3,4,7,8-HxCDD	312.320	1.029	YES	0.870	10.157	34.01	34.03	1.00	1.00	NO	0.07289		0.105	0.06679
4	4 1,2,3,6,7,8-HxCDD	1171.937	1.176	NO	0.784	10.157	34.09	34.12	1.00	1.00	NO	0.2672		0.107	0.2672
5	5 1,2,3,7,8,9-HxCDD	773.373	1.199	NO	0.798	10.157	34.41	34.39	1.00	1.00	NO	0.1721		0.110	0.1721
6	6 1,2,3,4,6,7,8-HpCDD	35585.584	1.025	NO	0.737	10.157	37.92	37.93	1.00	1.00	NO	9.778		0.274	9.778
7	7 OCDD	370147.626	0.879	NO	0.800	10.157	40.91	40.92	1.00	1.00	NO	107.8		0.151	107.8
8	8 2,3,7,8-TCDF	2396.740	0.673	NO	0.588	10.157	24.86	24.85	1.00	1.00	NO	0.5039 (0.326)		0.128	0.5039
9	9 1,2,3,7,8-PeCDF	2846.415	1.174	YES	0.826	10.157	29.39	29.39	1.00	1.00	NO	0.4292		0.0700	0.3813
10	10 2,3,4,7,8-PeCDF	3256.320	3.269	YES	0.850	10.157	30.38	30.38	1.00	1.00	NO	0.4972		0.0727	0.2970
11	11 1,2,3,4,7,8-HxCDF	3521.702	1.137	NO	0.787	10.157	33.13	33.15	1.00	1.00	NO	0.8081		0.0771	0.8081
12	12 1,2,3,6,7,8-HxCDF	1573.096	1.088	NO	0.720	10.157	33.26	33.26	1.00	1.00	NO	0.3572		0.0750	0.3572
13	13 2,3,4,6,7,8-HxCDF	1742.905	0.987	YES	0.766	10.157	33.86	33.85	1.00	1.00	NO	0.4243		0.0854	0.3807
14	14 1,2,3,7,8,9-HxCDF	214.074	0.763	YES	0.709	10.157	34.73	34.74	1.00	1.00	NO	0.05989		0.109	0.04684
15	15 1,2,3,4,6,7,8-HpCDF	3497.077	0.955	NO	0.732	10.157	36.52	36.48	1.00	1.00	NO	1.123		0.0916	1.123
16	16 1,2,3,4,7,8,9-HpCDF	539.210	1.402	YES	0.816	10.157	38.50	38.51	1.00	1.00	NO	0.1884		0.0916	0.1609
17	17 OCDF	7696.500	0.839	NO	0.639	10.157	41.10	41.11	1.00	1.00	NO	2.610		0.0947	2.610
18	18 13C-2,3,7,8-TCDD	1227748.5...	0.782	NO	1.12	10.157	25.72	25.70	1.03	1.03	NO	203.9	104	0.224	
19	19 13C-1,2,3,7,8-PeCDD	1097162.1...	0.634	NO	0.841	10.157	30.47	30.64	1.22	1.22	NO	241.7	123	0.294	
20	20 13C-1,2,3,4,7,8-HxCDD	969355.782	1.271	NO	0.938	10.157	33.99	34.00	1.01	1.01	NO	176.7	89.7	0.384	
21	21 13C-1,2,3,6,7,8-HxCDD	1101708.7...	1.258	NO	1.07	10.157	34.09	34.09	1.02	1.02	NO	176.8	89.8	0.338	
22	22 13C-1,2,3,7,8,9-HxCDD	1107882.2...	1.248	NO	1.03	10.157	34.39	34.37	1.03	1.03	NO	183.8	93.4	0.350	
23	23 13C-1,2,3,4,6,7,8-HpCDD	972460.531	1.036	NO	0.710	10.157	37.94	37.91	1.13	1.13	NO	234.2	119	0.651	
24	24 13C-OCDD	1689706.4...	0.880	NO	0.601	10.157	40.83	40.91	1.22	1.22	NO	480.7	122	0.331	
25	25 13C-2,3,7,8-TCDF	1593480.8...	0.777	NO	1.04	10.157	24.90	24.84	0.99	0.99	NO	182.3	92.6	0.256	
26	26 13C-1,2,3,7,8-PeCDF	1580703.1...	1.589	NO	0.917	10.157	29.24	29.37	1.17	1.17	NO	204.5	104	0.488	
27	27 13C-2,3,4,7,8-PeCDF	1517551.5...	1.539	NO	0.903	10.157	30.19	30.35	1.20	1.21	NO	199.4	101	0.496	
28	28 13C-1,2,3,4,7,8-HxCDF	1090873.5...	0.506	NO	0.861	10.157	33.12	33.13	0.99	0.99	NO	216.5	110	0.532	
29	29 13C-1,2,3,6,7,8-HxCDF	1204282.8...	0.513	NO	1.05	10.157	33.22	33.25	0.99	0.99	NO	196.7	99.9	0.438	
30	30 13C-2,3,4,6,7,8-HxCDF	1055318.7...	0.506	NO	0.946	10.157	33.82	33.83	1.01	1.01	NO	190.8	96.9	0.485	

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-13.qld

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Name: 200130R2_13, Date: 30-Jan-2020, Time: 23:50:32, ID: 1903647-03 PDI-067SC-B-02-04-191010 17.58, Description: PDI-067SC-B-02-04-191010

#	Name	Abs Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	993223.250	0.504	NO	0.816	10.157	34.73	34.73	1.04	1.04	NO	208.2	106	0.562	
32	32 13C-1,2,3,4,6,7,8-HpCDF	838112.234	0.433	NO	0.589	10.157	36.47	36.48	1.09	1.09	NO	243.2	124	0.538	
33	33 13C-1,2,3,4,7,8,9-HpCDF	686549.094	0.436	NO	0.448	10.157	38.48	38.50	1.15	1.15	NO	262.0	133	0.708	
34	34 13C-OCDF	1818145.5...	0.864	NO	0.586	10.157	41.06	41.10	1.23	1.23	NO	530.7	135	0.371	
35	35 37Cl-2,3,7,8-TCDD	479559.188			1.09	10.157	25.75	25.74	1.03	1.03	NO	81.84	104	0.0472	
36	36 13C-1,2,3,4-TCDD	1062796.6...	0.793	NO	1.00	10.157	25.08	25.08	1.00	1.00	NO	196.9	100	0.250	
37	37 13C-1,2,3,4-TCDF	1660453.0...	0.784	NO	1.00	10.157	23.42	23.42	1.00	1.00	NO	196.9	100	0.265	
38	38 13C-1,2,3,4,6,9-HxCDF	1151772.5...	0.507	NO	1.00	10.157	33.52	33.52	1.00	1.00	NO	196.9	100	0.458	
39	39 Total Tetra-Dioxins				0.824	10.157	24.62		0.00		NO	0.3483		0.105	0.4797
40	40 Total Penta-Dioxins				0.912	10.157	29.96		0.00		NO	0.5063		0.104	1.145
41	41 Total Hexa-Dioxins				0.784	10.157	33.63		0.00		NO	2.943		0.111	3.184
42	42 Total Hepta-Dioxins				0.737	10.157	37.64		0.00		NO	20.90		0.274	20.90
43	43 Total Tetra-Furans				0.588	10.157	23.61		0.00		NO	5.762		0.128	5.955
44	44 1st Func. Penta-Furans				0.826	10.157	27.09		0.00		NO	4.254		0.0336	4.254
45	45 Total Penta-Furans				0.826	10.157	29.27		0.00		NO	2.257		0.0723	3.766
46	46 Total Hexa-Furans				0.766	10.157	33.56		0.00		NO	4.551		0.0832	5.369
47	47 Total Hepta-Furans				0.732	10.157	37.83		0.00		NO	2.937		0.0964	3.098

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Dataset: U:\VG12.PRO\Results\200130R2\200130R2-13.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R2_13, Date: 30-Jan-2020, Time: 23:50:32, ID: 1903647-03 PDI-067SC-B-02-04-191010 17.58, Description: PDI-067SC-B-02-04-191010

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	6.89e2	1.23e6	0.810	NO	24.62	24.07	0.1341	0.1341
2	39 Total Tetra-Dioxins	0.00e0	1.23e6	1.191	YES	24.62	23.82	0.0000	0.1315
3	39 Total Tetra-Dioxins	7.11e2	1.23e6	0.775	NO	24.62	21.80	0.1383	0.1383
4	39 Total Tetra-Dioxins	3.90e2	1.23e6	0.700	NO	24.62	23.59	0.07585	0.07585

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.10e6	0.893	YES	29.96	28.93	0.0000	0.07524
2	40 Total Penta-Dioxins	1.84e3	1.10e6	0.660	NO	29.96	28.47	0.3623	0.3623
3	2 1,2,3,7,8-PeCDD	7.71e2	1.10e6	0.903	YES	30.66	30.67	0.0000	0.1301
4	40 Total Penta-Dioxins	7.31e2	1.10e6	0.693	NO	29.96	29.68	0.1440	0.1440
5	40 Total Penta-Dioxins	0.00e0	1.10e6	0.519	YES	29.96	29.57	0.0000	0.1313
6	40 Total Penta-Dioxins	0.00e0	1.10e6	0.872	YES	29.96	29.42	0.0000	0.3022

Hexa-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	7.73e2	1.11e6	1.199	NO	34.41	34.39	0.1721	0.1721
2	4 1,2,3,6,7,8-HxCDD	1.17e3	1.10e6	1.176	NO	34.09	34.12	0.2672	0.2672
3	41 Total Hexa-Dioxins	5.32e3	0.00e0	1.218	NO	33.63	33.33	1.262	1.262
4	41 Total Hexa-Dioxins	0.00e0	0.00e0	0.863	YES	33.63	33.06	0.0000	0.1742
5	41 Total Hexa-Dioxins	5.24e3	0.00e0	1.390	NO	33.63	32.52	1.242	1.242
6	3 1,2,3,4,7,8-HxCDD	3.12e2	9.69e5	1.029	YES	34.01	34.03	0.0000	0.06679

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	3.56e4	9.72e5	1.025	NO	37.92	37.93	9.778	9.778
2	42 Total Hepta-Dioxins	4.05e4	9.72e5	0.993	NO	37.64	36.87	11.12	11.12

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Name: 200130R2_13, Date: 30-Jan-2020, Time: 23:50:32, ID: 1903647-03 PDI-067SC-B-02-04-191010 17.58, Description: PDI-067SC-B-02-04-191010

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	7.02e3	1.59e6	0.722	NO	23.61	20.81	1.476	1.476
2	43 Total Tetra-Furans	0.00e0	1.59e6	0.475	YES	23.61	20.24	0.0000	0.1926
3	43 Total Tetra-Furans	1.18e3	1.59e6	0.868	NO	23.61	26.84	0.2484	0.2484
4	43 Total Tetra-Furans	8.78e2	1.59e6	0.732	NO	23.61	25.24	0.1845	0.1845
5	8 2,3,7,8-TCDF	2.40e3	1.59e6	0.673	NO	24.86	24.85	0.5039	0.5039
6	43 Total Tetra-Furans	5.91e2	1.59e6	0.784	NO	23.61	24.75	0.1242	0.1242
7	43 Total Tetra-Furans	3.06e3	1.59e6	0.811	NO	23.61	23.94	0.6423	0.6423
8	43 Total Tetra-Furans	4.01e3	1.59e6	0.692	NO	23.61	23.34	0.8431	0.8431
9	43 Total Tetra-Furans	3.62e3	1.59e6	0.739	NO	23.61	22.22	0.7607	0.7607
10	43 Total Tetra-Furans	3.50e3	1.59e6	0.668	NO	23.61	21.75	0.7367	0.7367
11	43 Total Tetra-Furans	1.15e3	1.59e6	0.697	NO	23.61	21.38	0.2427	0.2427

Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	2.76e4	0.00e0	1.635	NO	27.09	26.83	4.254	4.254

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	0.00e0	0.00e0	0.537	YES	29.27	30.36	0.0000	0.2467
2	45 Total Penta-Furans	5.26e2	0.00e0	1.454	NO	29.27	30.25	0.08099	0.08099
3	45 Total Penta-Furans	2.37e3	0.00e0	1.603	NO	29.27	29.64	0.3643	0.3643
4	9 1,2,3,7,8-PeCDF	2.85e3	1.58e6	1.174	YES	29.39	29.39	0.0000	0.3813
5	45 Total Penta-Furans	0.00e0	0.00e0	1.809	YES	29.27	28.97	0.0000	0.5842
6	45 Total Penta-Furans	1.18e4	0.00e0	1.484	NO	29.27	28.41	1.811	1.811
7	10 2,3,4,7,8-PeCDF	3.26e3	1.52e6	3.269	YES	30.38	30.38	0.0000	0.2970

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Dataset: U:\VG12.PRO\Results\200130R2\200130R2-13.qld

Last Altered: Tuesday, February 04, 2020 14:56:19 Pacific Standard Time

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Name: 200130R2_13, Date: 30-Jan-2020, Time: 23:50:32, ID: 1903647-03 PDI-067SC-B-02-04-191010 17.58, Description: PDI-067SC-B-02-04-191010

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	2.14e2	9.93e5	0.763	YES	34.73	34.74	0.0000	0.04684
2	13 2,3,4,6,7,8-HxCDF	1.74e3	1.06e6	0.987	YES	33.86	33.85	0.0000	0.3807
3	12 1,2,3,6,7,8-HxCDF	1.57e3	1.20e6	1.088	NO	33.26	33.26	0.3572	0.3572
4	11 1,2,3,4,7,8-HxCDF	3.52e3	1.09e6	1.137	NO	33.13	33.15	0.8081	0.8081
5	46 Total Hexa-Furans	7.24e3	0.00e0	1.246	NO	33.56	32.68	1.713	1.713
6	46 Total Hexa-Furans	7.07e3	0.00e0	1.202	NO	33.56	32.16	1.672	1.672
7	46 Total Hexa-Furans	0.00e0	0.00e0	0.901	YES	33.56	31.98	0.0000	0.2852
8	46 Total Hexa-Furans	0.00e0	0.00e0	1.034	YES	33.56	34.78	0.0000	0.1056

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	5.39e2	6.87e5	1.402	YES	38.50	38.51	0.0000	0.1609
2	47 Total Hepta-Furans	5.14e3	0.00e0	0.986	NO	37.83	37.10	1.814	1.814
3	15 1,2,3,4,6,7,8-HpCDF	3.50e3	8.38e5	0.955	NO	36.52	36.48	1.123	1.123

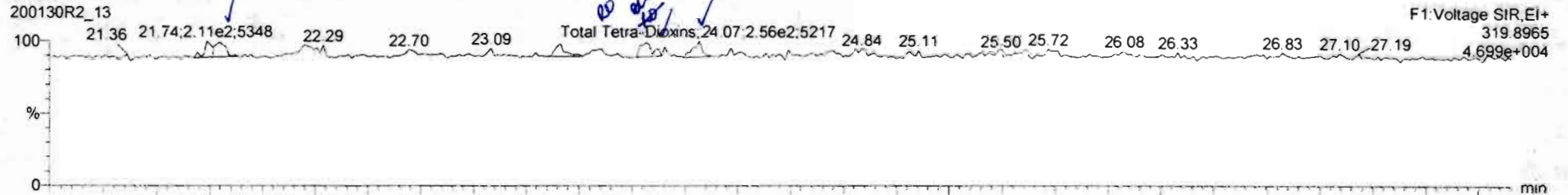
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Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

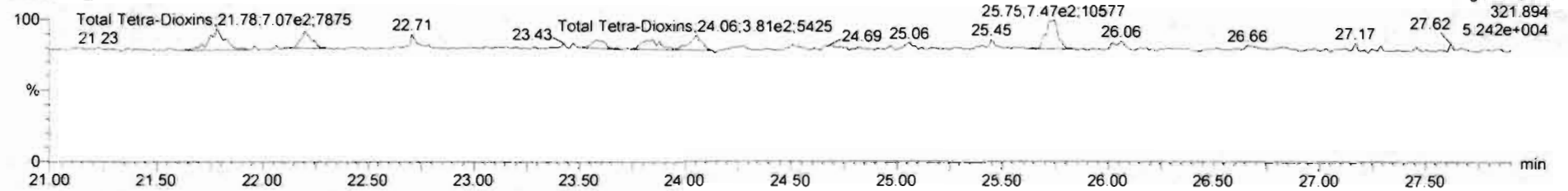
Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_13, Date: 30-Jan-2020, Time: 23:50:32, ID: 1903647-03 PDI-067SC-B-02-04-191010 17.58, Description: PDI-067SC-B-02-04-191010

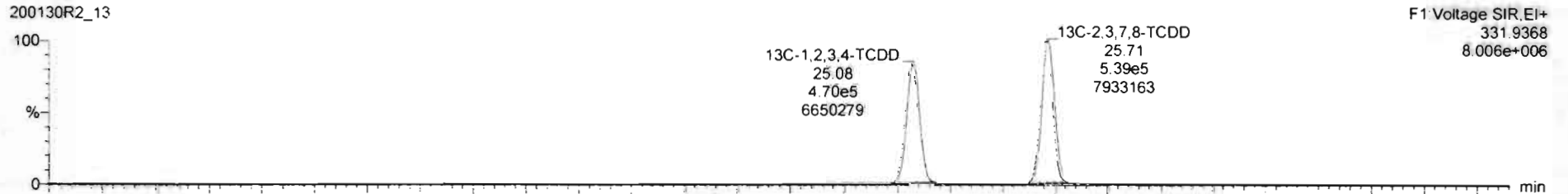
2,3,7,8-TCDD



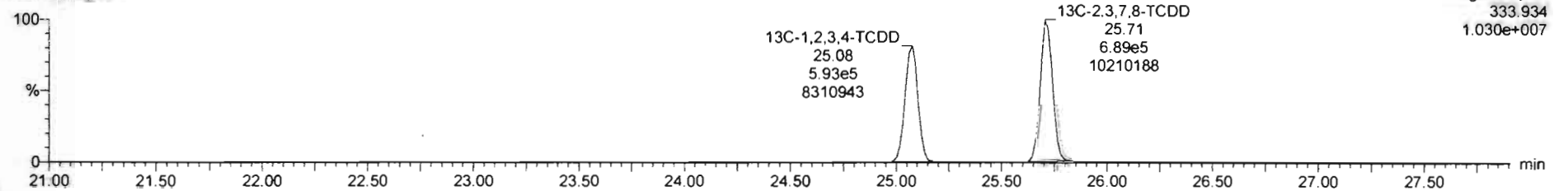
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13C-2,3,7,8-TCDD



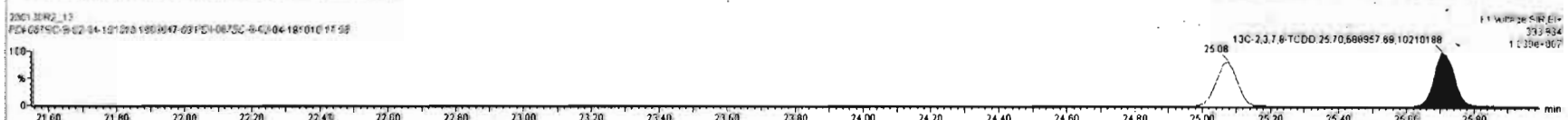
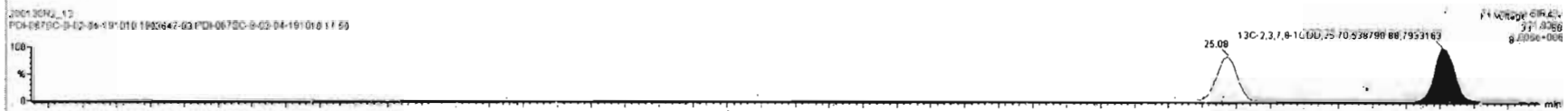
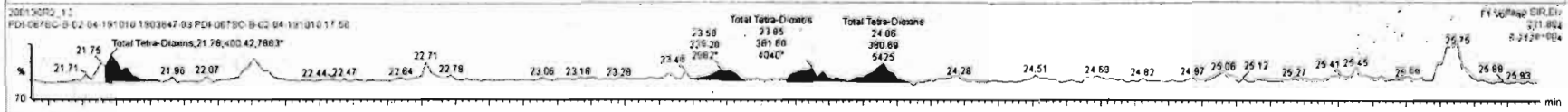
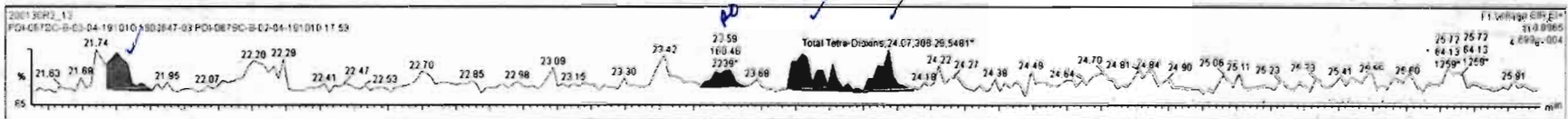
200130R2_13



2013092-13-1903647-03 PDI-0675C-B-02-04-191010-1153

#	Name	Resp	RA	nV	RRF	wVol	Pred RT	RT	Pred R	RRT	RRT Rat	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins		0.8240	10.157	24.52		0.000	NO	0.2562		0.105	0.3836			
40	Total Penta-Dioxins		0.9116	10.157	29.96		0.000	NO	0.3623		0.104	1.182			
41	Total Hexa-Dioxins		0.7841	10.157	33.63		0.000	NO	0.2971		0.111	3.145			
42	Total Hepta-Dioxins		0.7369	10.157	37.54		0.000	NO	0.2100		0.270	21.00			
43	Total Tetra-Furans		0.5878	10.157	23.61		0.000	NO	4.730		0.126	6.348			
44	1st Func. Penta-Furans		0.8261	10.157	27.06		0.000	NO	4.254		0.0336	4.254			
45	Total Penta-Furans		0.8261	10.157	29.27		0.000	NO	4.291		0.0723	4.706			
46	Total Hexa-Furans		0.7685	10.157	33.56		0.000	NO	4.759		0.0632	5.558			
47	Total Hepta-Furans		0.7318	10.1427	37.401		0.000	NO	3.942		0.0624	3.133			

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nV	EMPC	Conc
1	Total Tetra-Dioxins	24.62	21.80	2.847e2	7.066e2	0.770	0.40	YES	0.12737	0.00000
2	Total Tetra-Dioxins	24.62	23.82	3.115e2	3.603e2	0.770	0.85	NO	0.13222	0.13232
3	Total Tetra-Dioxins	24.62	24.07	2.557e2	3.807e2	0.770	0.67	NO	0.12388	0.12388



Dataset: Untitled

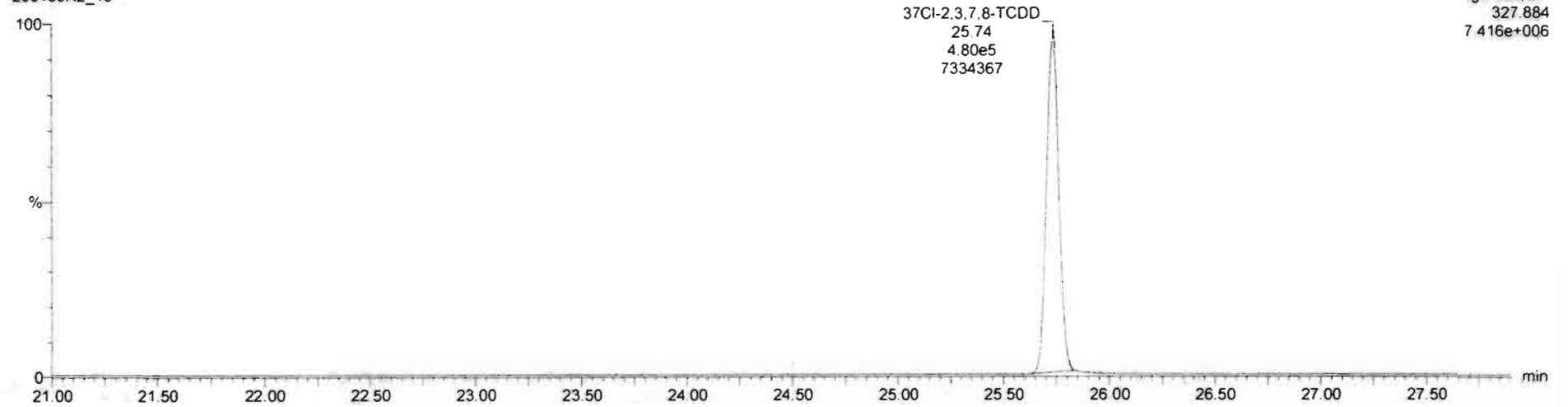
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Name: 200130R2_13, Date: 30-Jan-2020, Time: 23:50:32, ID: 1903647-03 PDI-067SC-B-02-04-191010 17.58, Description: PDI-067SC-B-02-04-191010

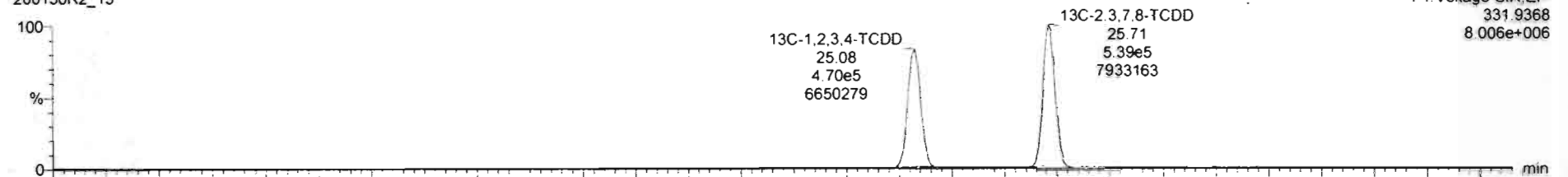
37Cl-2,3,7,8-TCDD

200130R2_13

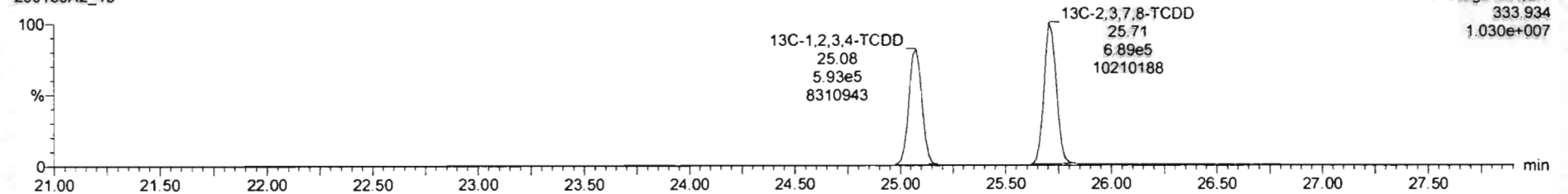


13C-1,2,3,4-TCDD

200130R2_13



200130R2_13



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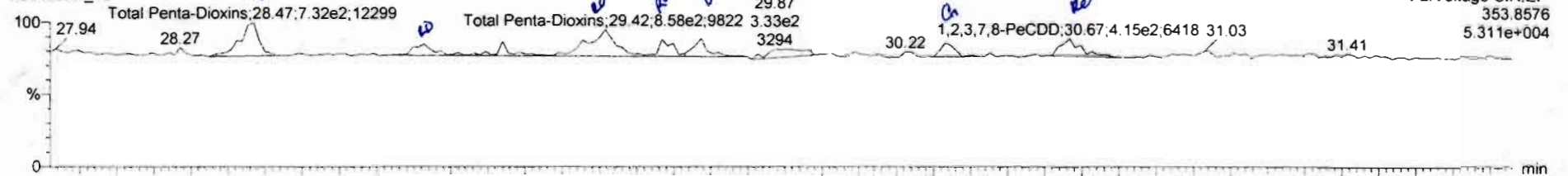
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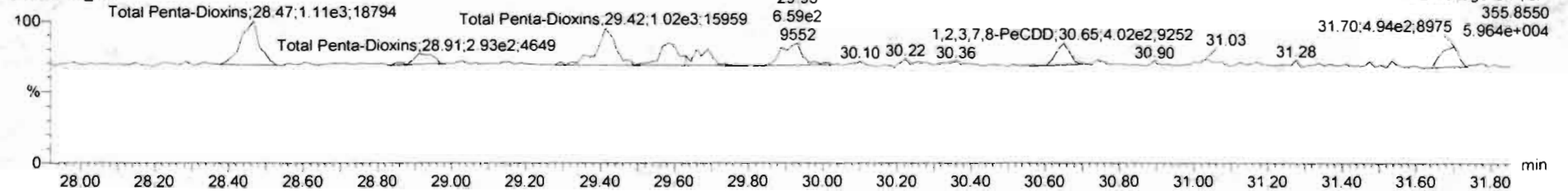
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1,2,3,7,8-PeCDD

200130R2_13

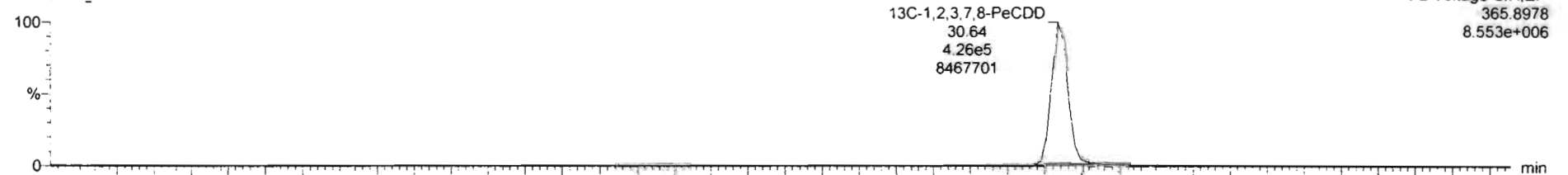


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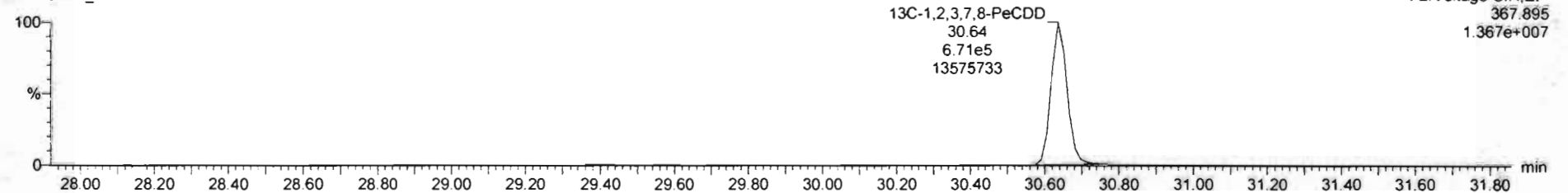


13C-1,2,3,7,8-PeCDD

200130R2_13



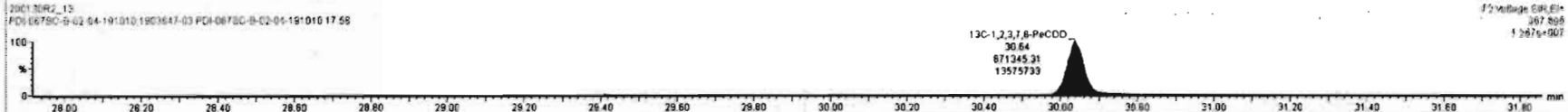
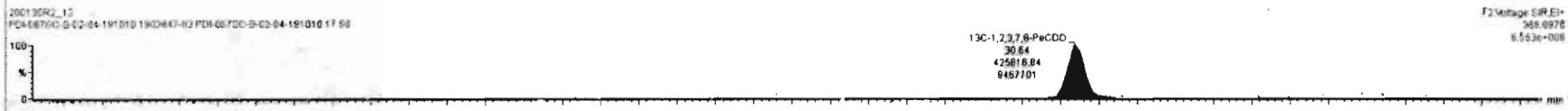
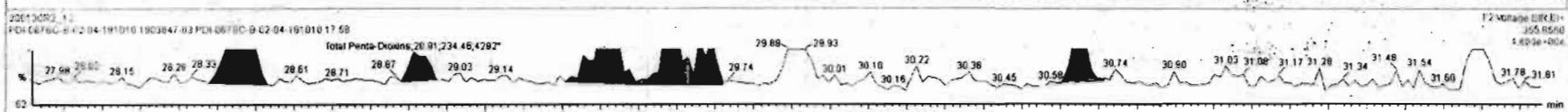
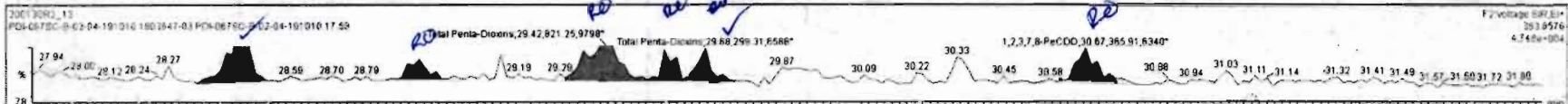
200130R2_13



200130R2-13: 1903647-03 PDI-0675C-B-02-04-191010 17:58 PDI-0675C-B-02-04-191010

#	Name	Resp	RA	nV	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	CL	EMPC
39	Total Tetra-Dioxins				0.8240	10.157	24.62		0.000	NO		0.3453		0.105	0.4797
40	Total Penta-Dioxins				0.9116	10.157	28.96		0.000	NO		0.3623		0.104	1.183
41	Total Hexa-Dioxins				0.7941	10.157	33.63		0.000	NO		2.971		0.111	3.145
42	Total Hepta-Dioxins				0.7369	10.157	37.64		0.000	NO		21.00		0.270	21.00
43	Total Tetra-Furans				0.5878	10.157	23.81		0.000	NO		4.730		0.126	6.349
44	1st Func. Penta-Furans				0.8261	10.157	27.99		0.000	NO		4.254		0.0336	4.254
45	Total Penta-Furans				0.8261	10.157	29.27		0.000	NO		4.251		0.0723	4.706
46	Total Hexa-Furans				0.7066	10.157	33.56		0.000	NO		4.709		0.0622	5.566
47	Total Hepta-Furans				0.7746	10.162	37.61		0.000	NO		7.066		0.0664	3.137

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nV	EMPC	Conc.
1	1,2,3,7,8-PeCDD	30.66	30.67	4.146e2	4.025e2	0.630	1.03	YES	0.12915	0.00000
2	Total Penta-Dioxins	29.96	29.47	7.300e2	1.100e3	0.630	0.96	NO	0.36232	0.36232
3	Total Penta-Dioxins	29.96	28.93	2.851e2	2.831e2	0.630	0.97	YES	0.094070	0.00000
4	Total Penta-Dioxins	29.96	29.42	8.576e2	1.016e3	0.630	0.84	YES	0.32610	0.00000
5	Total Penta-Dioxins	29.96	29.57	2.726e2	5.850e2	0.630	0.48	YES	0.13895	0.00000
6	Total Penta-Dioxins	29.96	29.67	3.034e2	4.126e2	0.630	0.74	YES	0.13240	0.00000



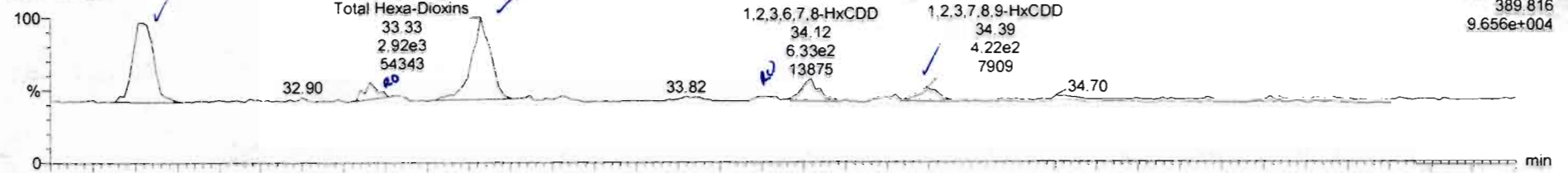
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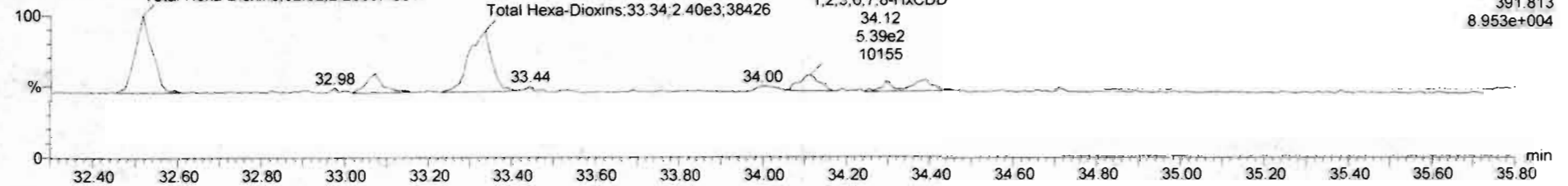
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1,2,3,4,7,8-HxCDD

200130R2_13

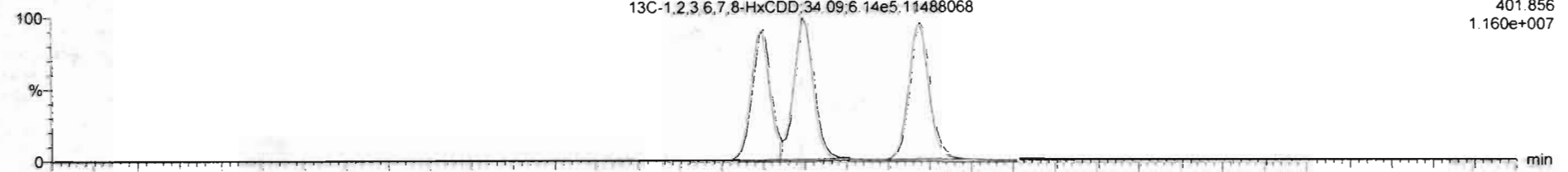


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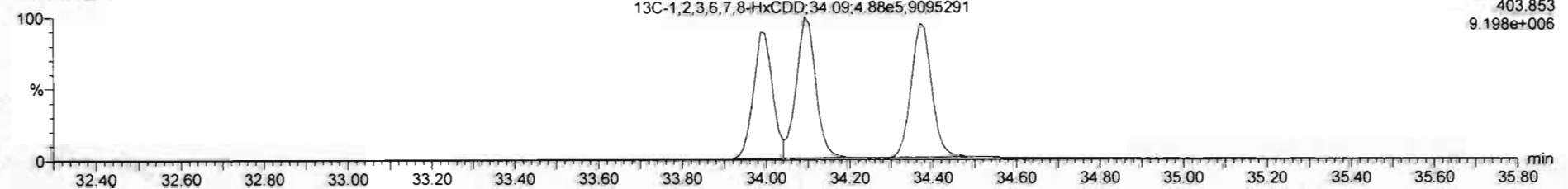


13C-1,2,3,4,7,8-HxCDD

200130R2_13

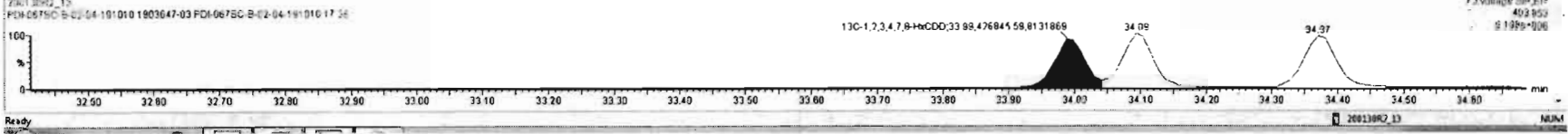
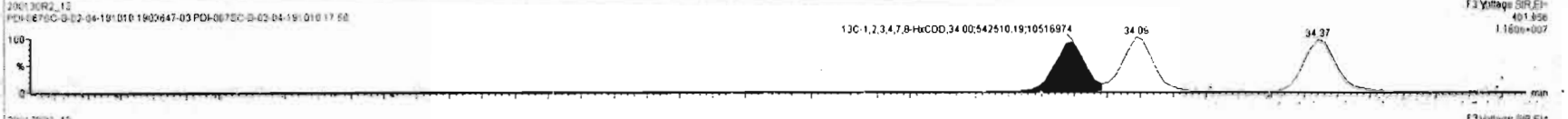
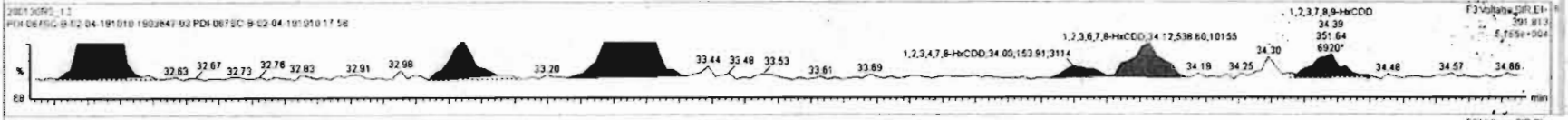
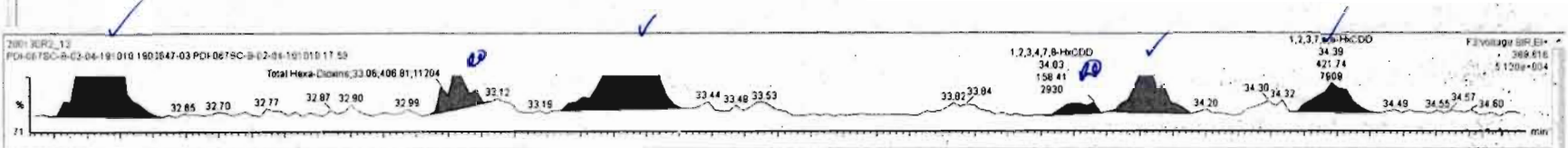


200130R2_13



#	Name	Resp	RA	nV	RRF	w(Ave)	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.157	24.62		0.000		NO	0.3483		0.105	0.4797
40	Total Penta-Dioxins				0.9116	10.157	29.96		0.000		NO	0.5063		0.104	1.145
41	Total Hexa-Dioxins				0.7841	10.157	33.83		0.000		NO	2.771		0.111	3.152
42	Total Hepta-Dioxins				0.7369	10.157	37.64		0.000		NO	21.00		0.270	21.00
43	Total Tetra-Furans				0.5878	10.157	23.81		0.000		NO	4.730		0.126	8.349
44	1st Func. Penta-Furans				0.6281	10.157	27.36		0.000		NO	4.254		0.0336	4.254
45	Total Penta-Furans				0.8281	10.157	29.27		0.000		NO	4.281		0.0723	4.708
46	Total Hexa-Furans				0.7655	10.157	33.58		0.000		NO	4.703		0.0832	5.556
47	Total Hepta-Furans				0.7344	10.142	32.83		0.000		NO	2.684		0.0664	5.137

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nV	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.52	3.047e3	2.162e3	1.240	1.39	NO	1.2418	1.2418
2	41 Total Hexa-Dioxins	33.63	33.06	4.069e2	4.717e2	1.240	0.96	YES	0.17417	0.00000
3	41 Total Hexa-Dioxins	33.63	33.33	2.923e3	2.401e3	1.240	1.22	NO	1.2618	1.2618
4	3 1,2,3,4,7,8-HxCDD	34.01	34.03	1.584e2	1.539e2	1.240	1.03	YES	0.06787	0.00000
5	4 1,2,3,6,7,8-HxCDD	34.09	34.12	8.333e2	5.386e2	1.240	1.18	NO	0.26716	0.26716
6	5 1,2,3,7,8-HxCDD	34.41	34.29	4.217e2	2.811e2	1.240	1.50	YES	0.14016	0.00000



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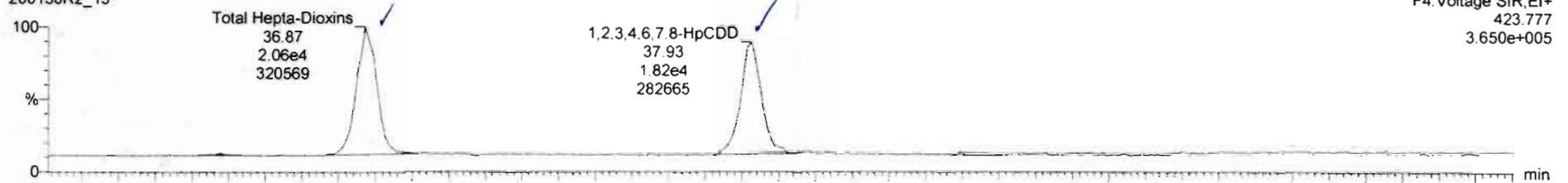
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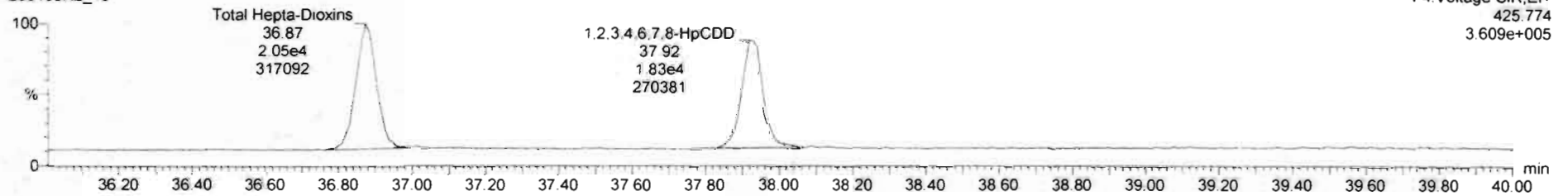
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1,2,3,4,6,7,8-HpCDD

200130R2_13

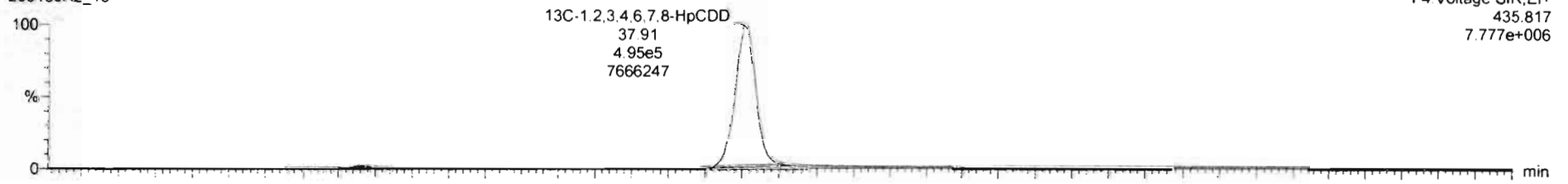


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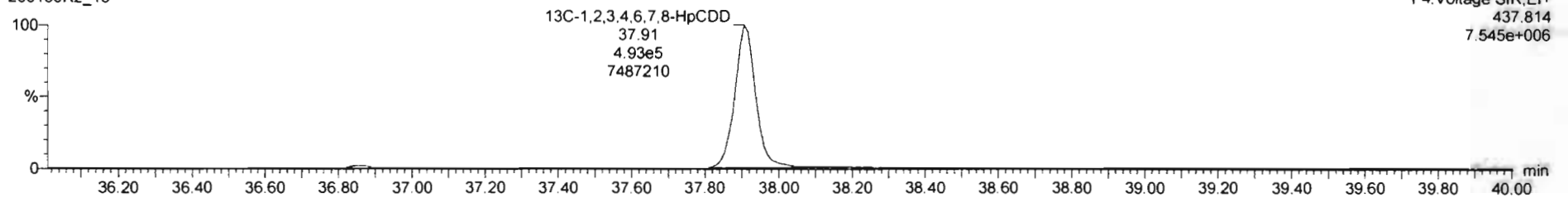


13C-1,2,3,4,6,7,8-HpCDD

200130R2_13

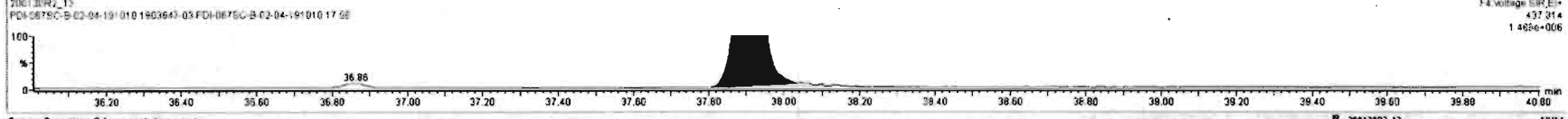
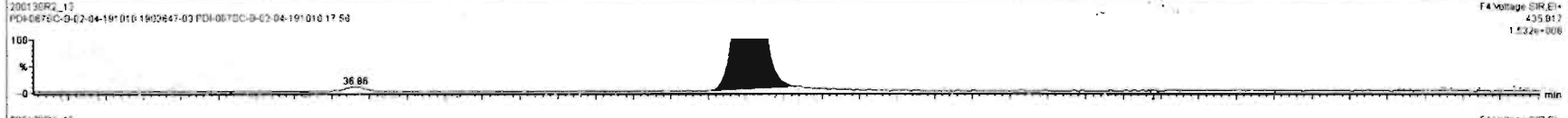
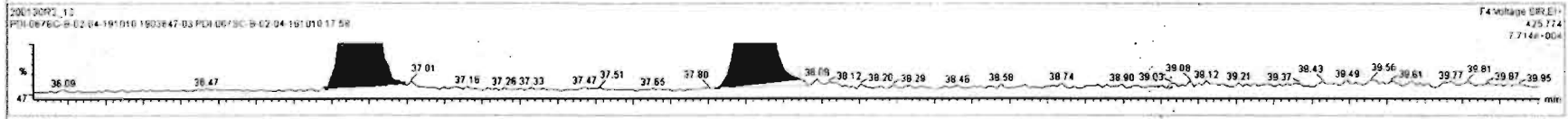
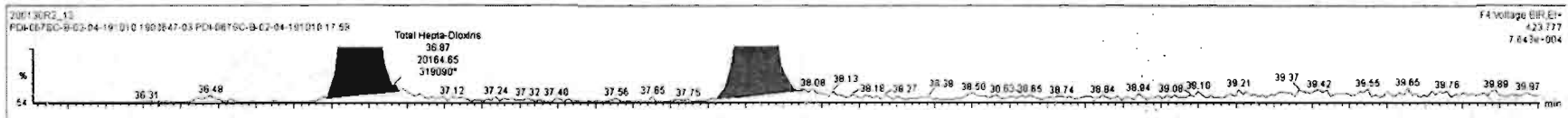


200130R2_13



#	Name	Resp	RA	n/y	RRF	wtAvr	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	CL	EMPC
39	Total Tetra-Dioxins				0.8240	10.157	24.62		0.000		NO	0.3463		0.105	0.4797
40	Total Penta-Dioxins				0.8115	10.157	28.96		0.000		NO	0.5063		0.104	1.145
41	Total Hexa-Dioxins				0.7841	10.157	33.63		0.000		NO	2.943		0.111	3.184
42	Total Hepta-Dioxins				0.7388	10.157	37.64		0.000		NO	21.00		0.270	21.00
43	Total Tetra-Furans				0.5875	10.157	23.61		0.000		NO	4.730		0.128	6.348
44	1st Func. Penta-Furans				0.6261	10.157	27.09		0.000		NO	4.254		0.0336	4.254
45	Total Penta-Furans				0.6261	10.157	29.27		0.000		NO	4.291		0.0723	4.708
46	Total Hexa-Furans				0.7695	10.157	33.56		0.000		NO	4.709		0.0832	5.555
47	Total Hepta-Furans				0.7316	10.157	37.61		0.000		NO	2.985		0.0864	3.197

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	42 Total Hepta-Dioxins	37.64	36.67	2.055e4	2.055e4	1.040	1.00	NO	11.118	11.118
2	6 1,2,3,4,6,7,8-HpCDD	37.92	37.93	1.821e4	1.833e4	1.040	0.99	NO	9.9838	9.9830

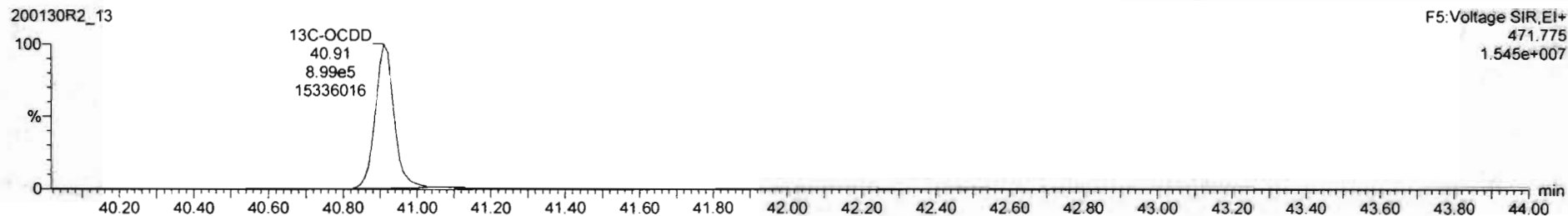
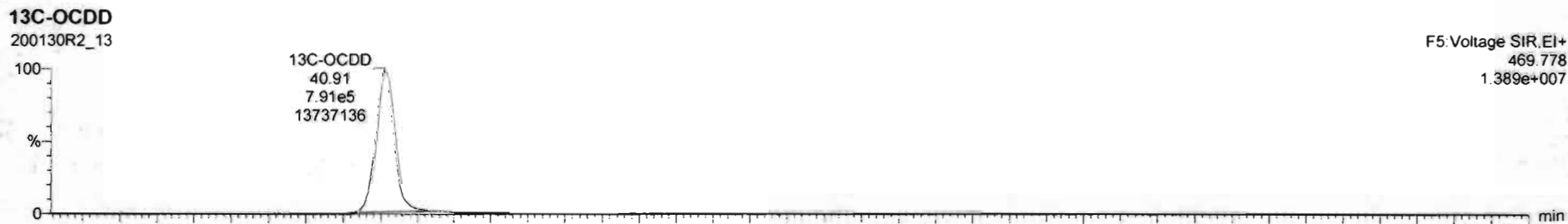
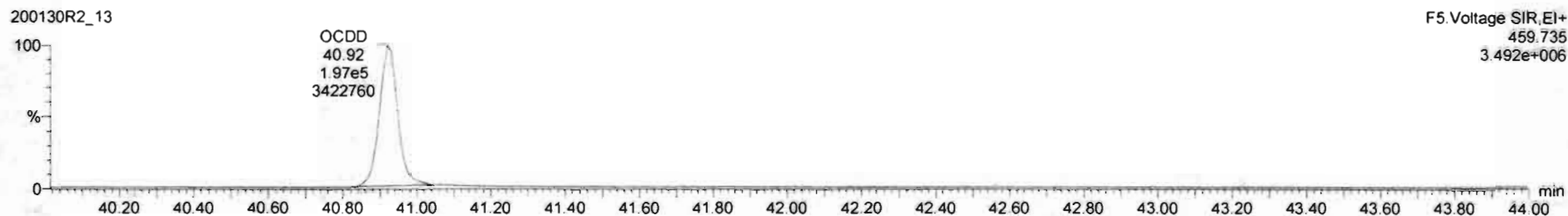
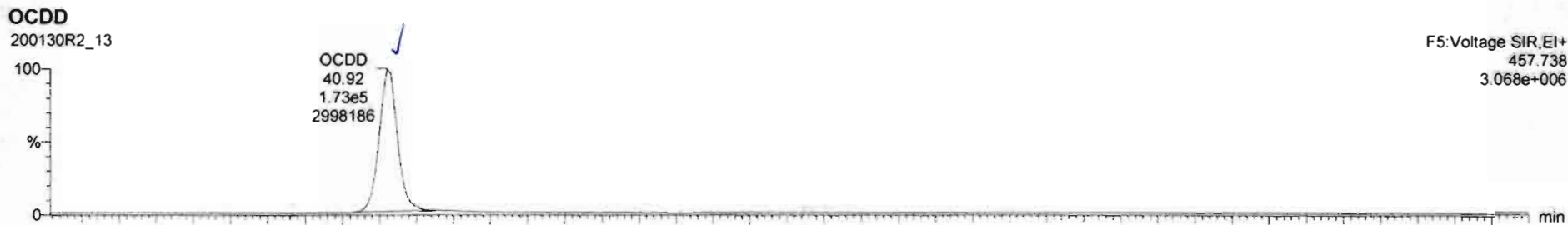


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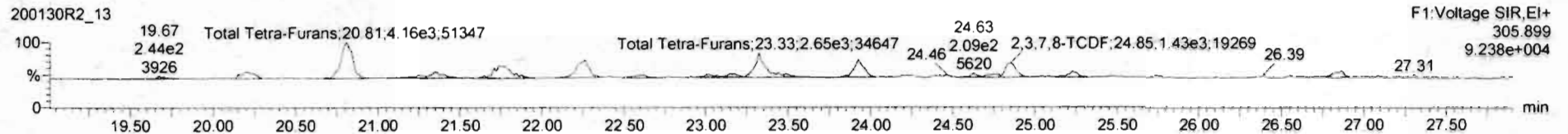
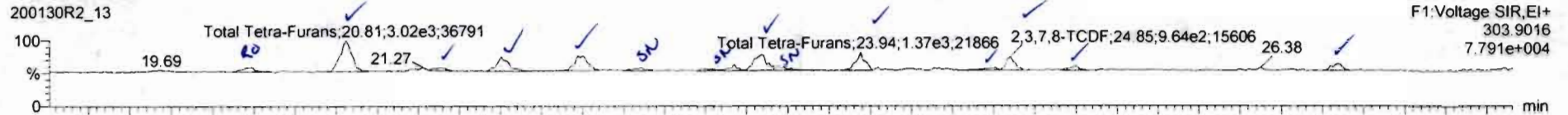


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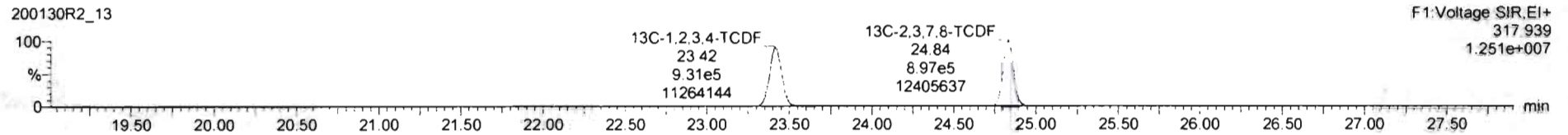
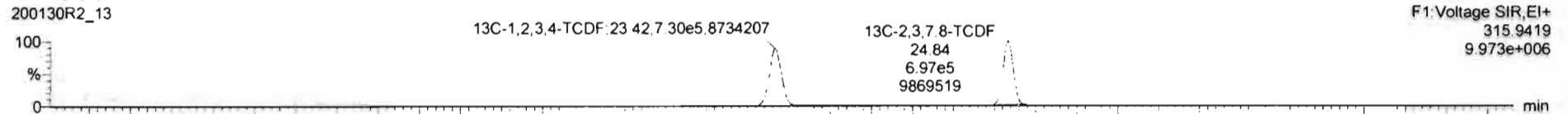
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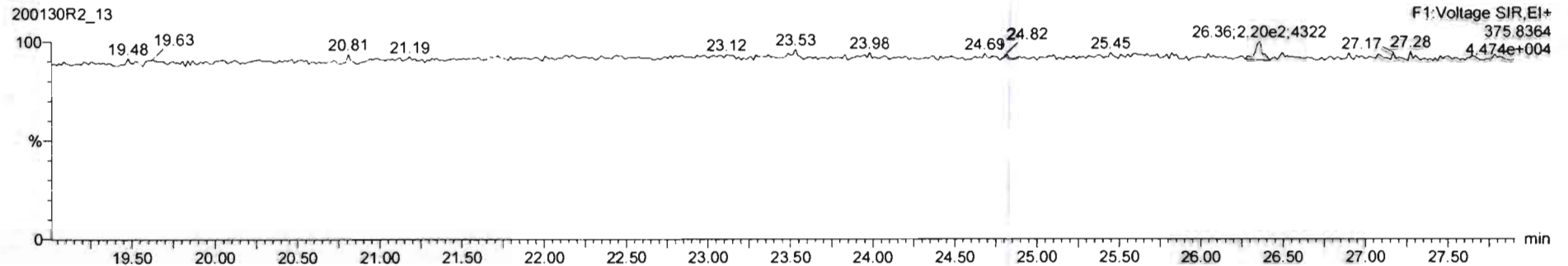
2,3,7,8-TCDF



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



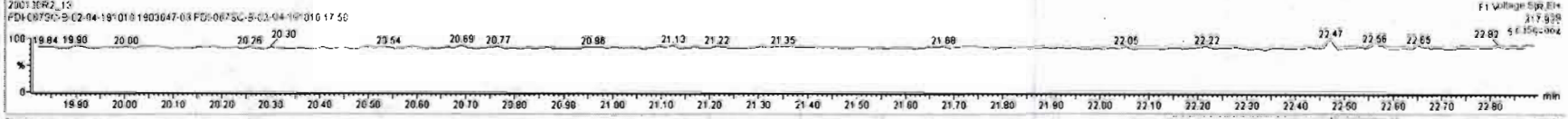
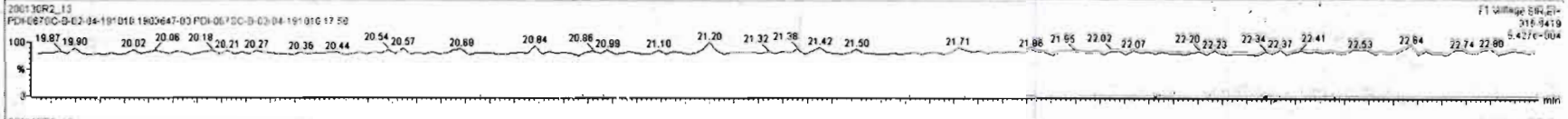
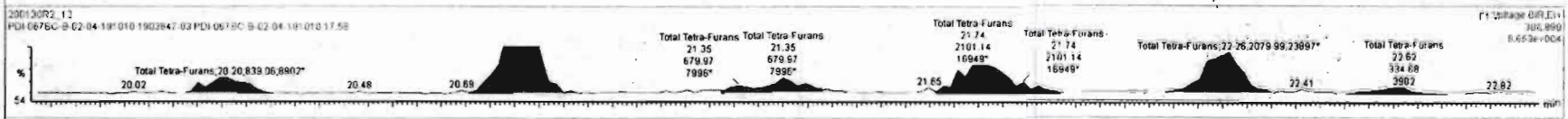
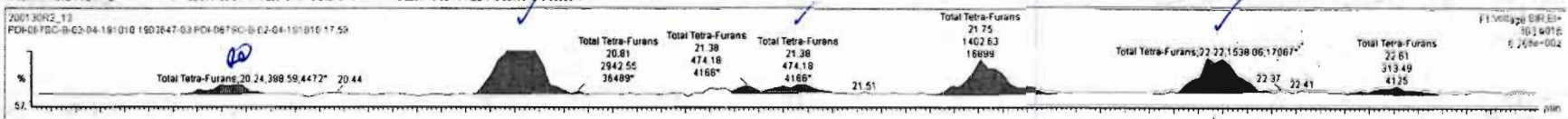
DPE1



200130R2-13-1903647-03 PDI-067SC-B-02-04-19 010 17 58 PDI-067SC-B-02-04-19 010 17 58

#	Name	Resp	RA	n/y	RRF	wtNol	Prod RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.157	24.62		0.000		NO	0.3483	0.105	0.4797	
40	Total Penta-Dioxins				0.9116	10.157	29.96		0.000		NO	0.5063	0.104	1.145	
41	Total Hexa-Dioxins				0.7841	10.157	33.83		0.000		NO	2.943	0.111	3.184	
42	Total Hepta-Dioxins				0.7369	10.157	37.64		0.000		NO	20.90	0.274	20.90	
43	Total Tetra-Furans				0.5878	10.157	23.61		0.000		NO	4.730	0.126	8.349	
44	1st Func. Penta-Furans				0.8261	10.157	27.09		0.000		NO	4.254	0.0336	4.254	
45	Total Penta-Furans				0.8261	10.157	29.27		0.000		NO	4.291	0.0723	4.708	
46	Total Hexa-Furans				0.7665	10.157	33.56		0.000		NO	4.709	0.0632	5.556	
47	Total Hepta-Furans				0.7716	10.157	37.61		0.000		NO	7.096	0.0664	7.197	

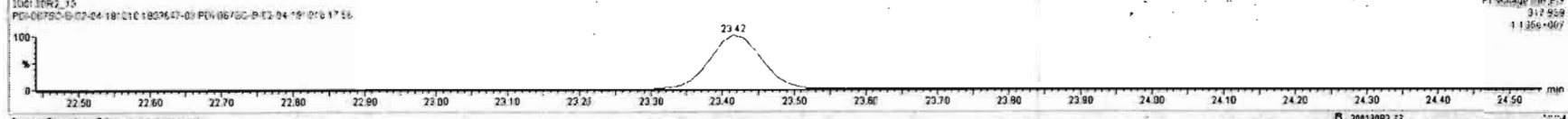
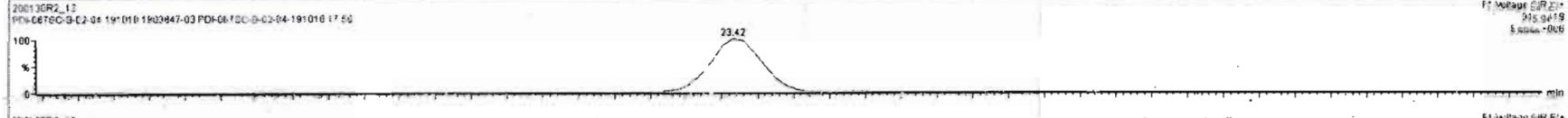
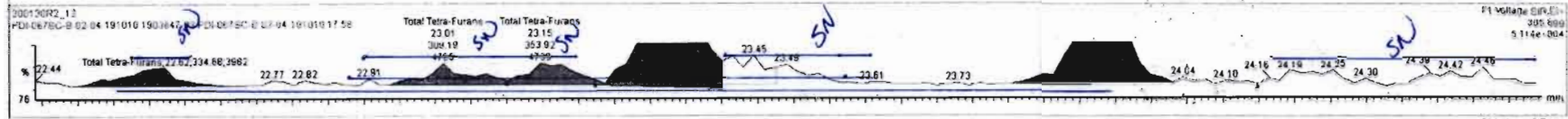
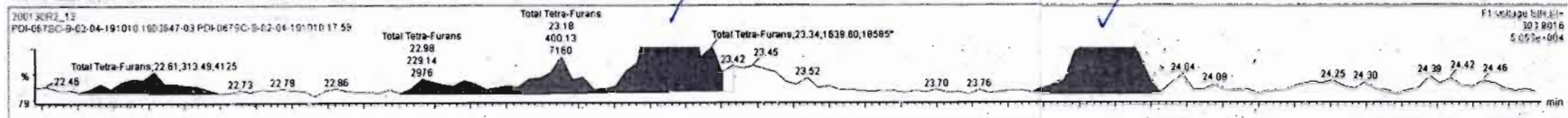
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	20.24	5.218e2	9.220e2	0.770	0.57	YES	0.25217	0.00000
2	Total Tetra-Furans	23.61	20.81	3.016e3	4.160e3	0.770	0.73	NO	1.5098	1.5098
3	Total Tetra-Furans	23.61	21.38	3.165e2	7.240e2	0.770	0.44	YES	0.15298	0.00000
4	Total Tetra-Furans	23.61	21.75	1.403e3	2.139e3	0.770	0.66	NO	0.74469	0.74469
5	Total Tetra-Furans	23.61	22.22	1.632e3	2.096e3	0.770	0.78	NO	0.78392	0.78392
6	Total Tetra-Furans	23.61	22.61	3.136e2	3.347e2	0.770	0.84	YES	0.12455	0.00000
7	Total Tetra-Furans	23.61	22.98	2.291e2	3.032e2	0.770	0.74	NO	0.11318	0.11318
8	Total Tetra-Furans	23.61	23.16	4.001e2	3.539e2	0.770	1.13	YES	0.13171	0.00000



200130R2_13-1903647-03 PDI-0675C-B-E2-04-191010 17:58 PDI-0675C-B-E2-04-191010

#	Name	Resp	RA	nV	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT Tol	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.157	24.62		0.000		NO	0.3463		0.105	0.4797
40	Total Penta-Dioxins				0.9116	10.157	29.96		0.000		NO	0.5063		0.104	1.145
41	Total Hexa-Dioxins				0.7841	10.157	33.62		0.000		NO	2.943		0.111	3.184
42	Total Hepta-Dioxins				0.7369	10.157	37.64		0.000		NO	20.90		0.274	20.90
43	Total Tetra-Furans				0.5878	10.157	23.81		0.000		NO	4.908		0.126	6.315
44	1st Func. Penta-Furans				0.8261	10.157	27.08		0.000		NO	4.254		0.0336	4.254
45	Total Penta-Furans				0.8261	10.157	29.27		0.000		NO	4.291		0.0723	4.700
46	Total Hexa-Furans				0.7665	10.157	33.56		0.000		NO	4.709		0.0832	5.566
47	Total Hepta-Furans				0.7765	10.147	37.81		0.000		NO	7.066		0.0864	9.137

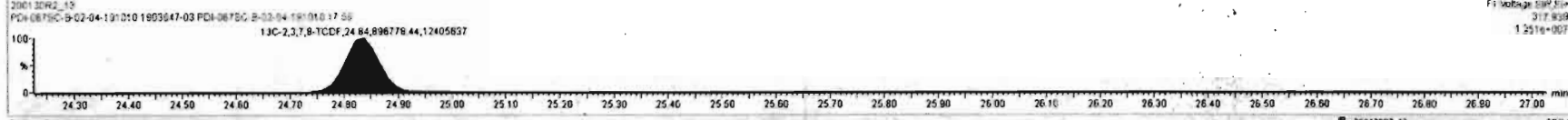
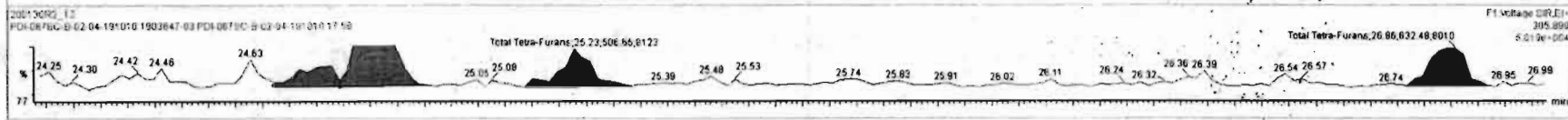
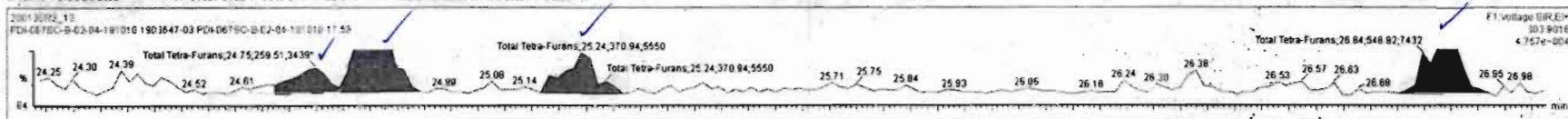
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nV	EMPC	Conc.
1	Total Tetra-Furans	23.61	20.24	3.986e2	8.391e2	0.770	0.47	YES	0.19264	0.00000
2	Total Tetra-Furans	23.61	20.61	2.943e3	4.078e3	0.770	0.72	NO	1.4760	1.4760
3	Total Tetra-Furans	23.61	21.38	4.742e2	6.800e2	0.770	0.70	NO	0.24266	0.24266
4	Total Tetra-Furans	23.61	21.75	1.403e3	2.101e3	0.770	0.67	NO	0.73666	0.73666
5	Total Tetra-Furans	23.61	22.22	1.539e3	2.080e3	0.770	0.74	NO	0.78099	0.78099
6	Total Tetra-Furans	23.61	22.61	3.135e2	3.347e2	0.770	0.94	YES	0.12455	0.00000
7	Total Tetra-Furans	23.61	22.98	2.291e2	3.002e2	0.770	0.74	NO	0.11318	0.11318
8	Total Tetra-Furans	23.61	23.19	4.001e2	3.539e2	0.770	1.13	YES	0.13171	0.00000



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#	Name	Resp	RA	n/y	RRF	WtCon	Pred RT	RT	Pred RT	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.157	24.62		0.000	NO	0.3463	0.105	0.4797		
40	Total Penta-Dioxins				0.9116	10.157	29.96		0.000	NO	0.5063	0.104	1.145		
41	Total Hexa-Dioxins				0.7841	10.157	33.63		0.000	NO	2.943	0.111	3.184		
42	Total Hepta-Dioxins				0.7389	10.157	37.64		0.000	NO	20.90	0.274	20.80		
43	Total Tetra-Furans				0.5876	10.157	23.61		0.000	NO	5.638	0.128	5.954		
44	1st Func. Penta-Furans				0.8261	10.157	27.09		0.000	NO	4.254	0.0336	4.254		
45	Total Penta-Furans				0.8261	10.157	29.27		0.000	NO	4.291	0.0723	4.708		
46	Total Hexa-Furans				0.7665	10.157	33.56		0.000	NO	4.709	0.0832	5.592		
47	Total Hepta-Furans				0.7742	10.143	32.81		0.000	NO	9.948	0.0942	11.197		

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1st Ratio (Pred)	RA	n/y	EMPC	Conc
1	43 Total Tetra-Furans	23.61	20.24	3.966e2	8.391e2	0.770	0.47	YES	0.19264	0.00000
2	43 Total Tetra-Furans	23.61	20.61	2.943e3	4.079e3	0.770	0.72	NO	1.4760	1.4760
3	43 Total Tetra-Furans	23.61	21.38	4.742e2	6.800e2	0.770	0.70	NO	0.24266	0.24266
4	43 Total Tetra-Furans	23.61	21.75	1.403e3	2.101e3	0.770	0.67	NO	0.73666	0.73666
5	43 Total Tetra-Furans	23.61	22.22	1.539e3	2.089e3	0.770	0.74	NO	0.76069	0.76069
6	43 Total Tetra-Furans	23.61	23.34	1.640e3	2.371e3	0.770	0.69	NO	0.84313	0.84313
7	43 Total Tetra-Furans	23.61	23.94	1.368e3	1.667e3	0.770	0.81	NO	0.64231	0.64231
8	43 Total Tetra-Furans	23.61	24.75	3.201e2	3.312e2	0.770	0.97	YES	0.12326	0.00000



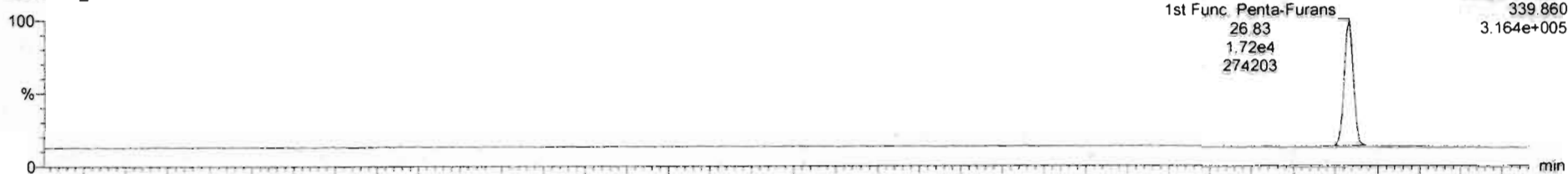
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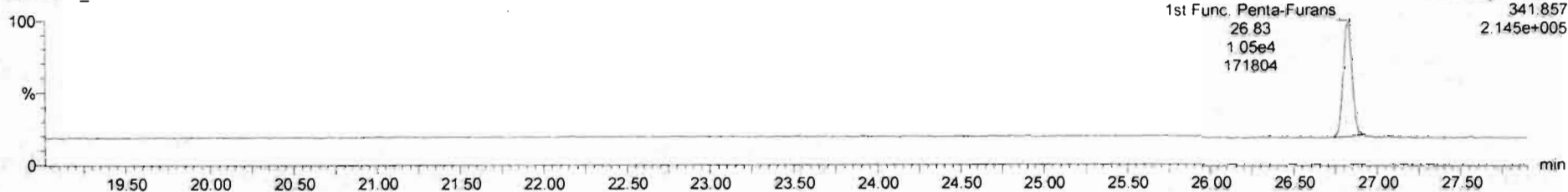
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1st Func. Penta-Furans

200130R2_13

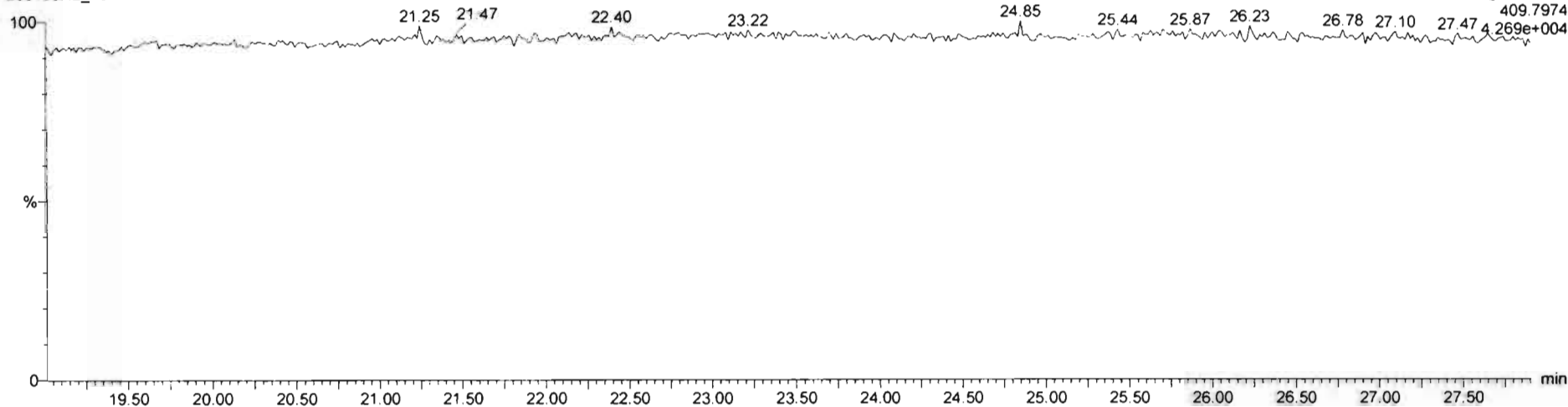


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DPE6

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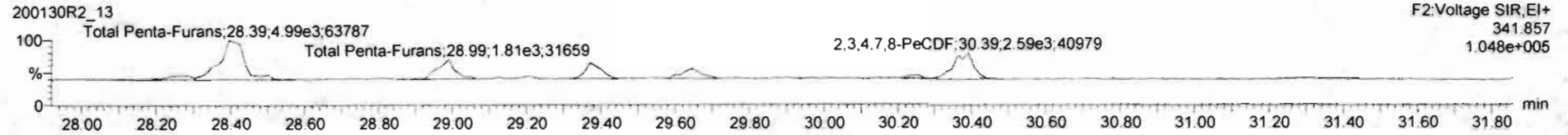
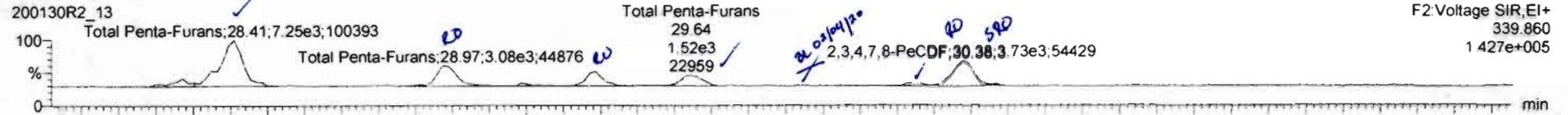
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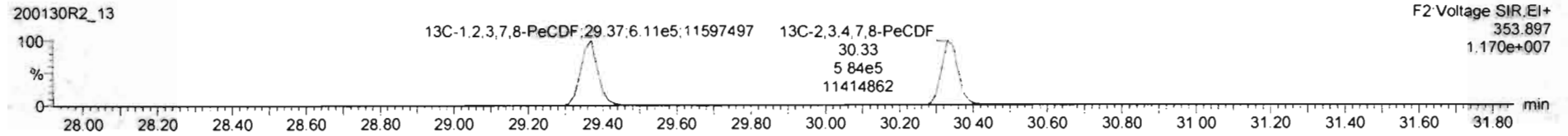
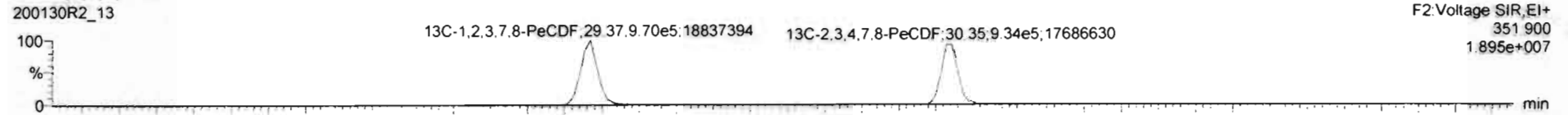
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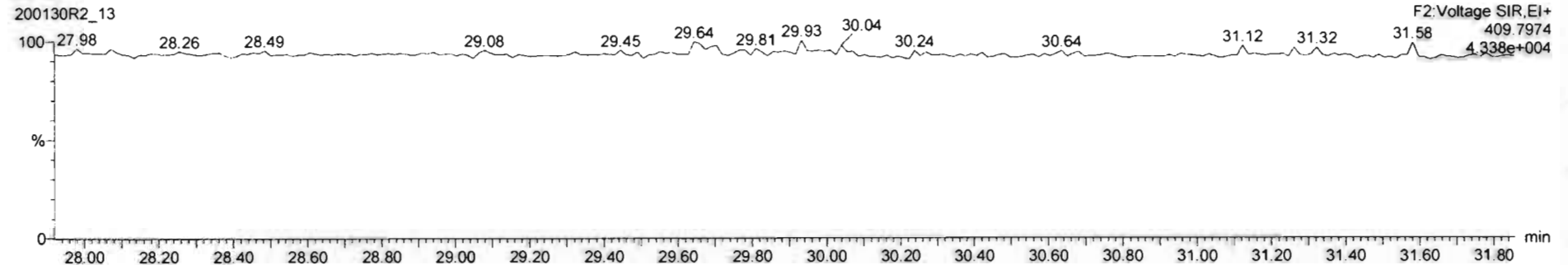
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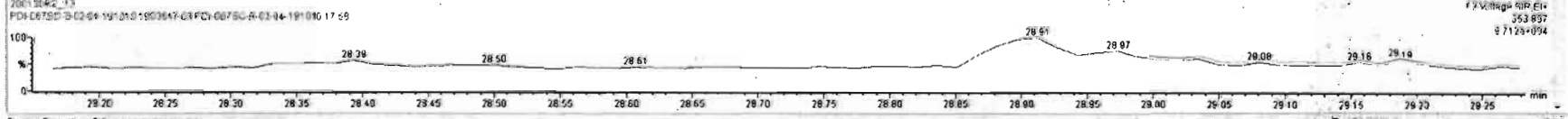
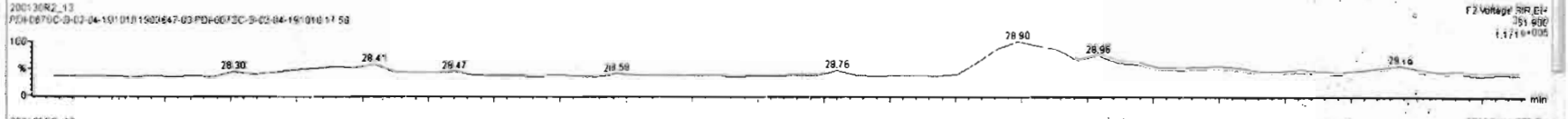
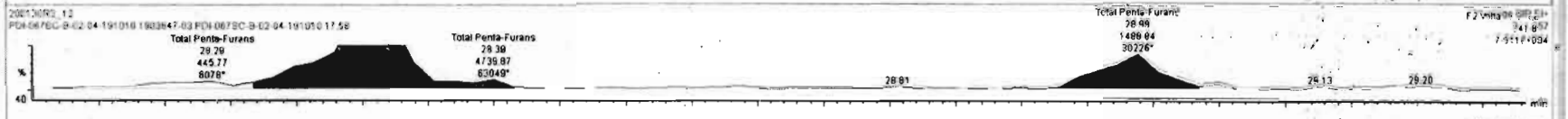
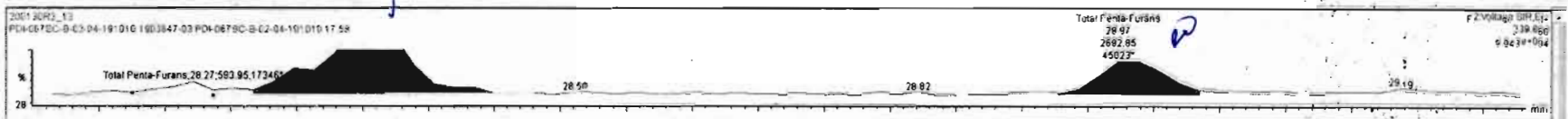


DPE2



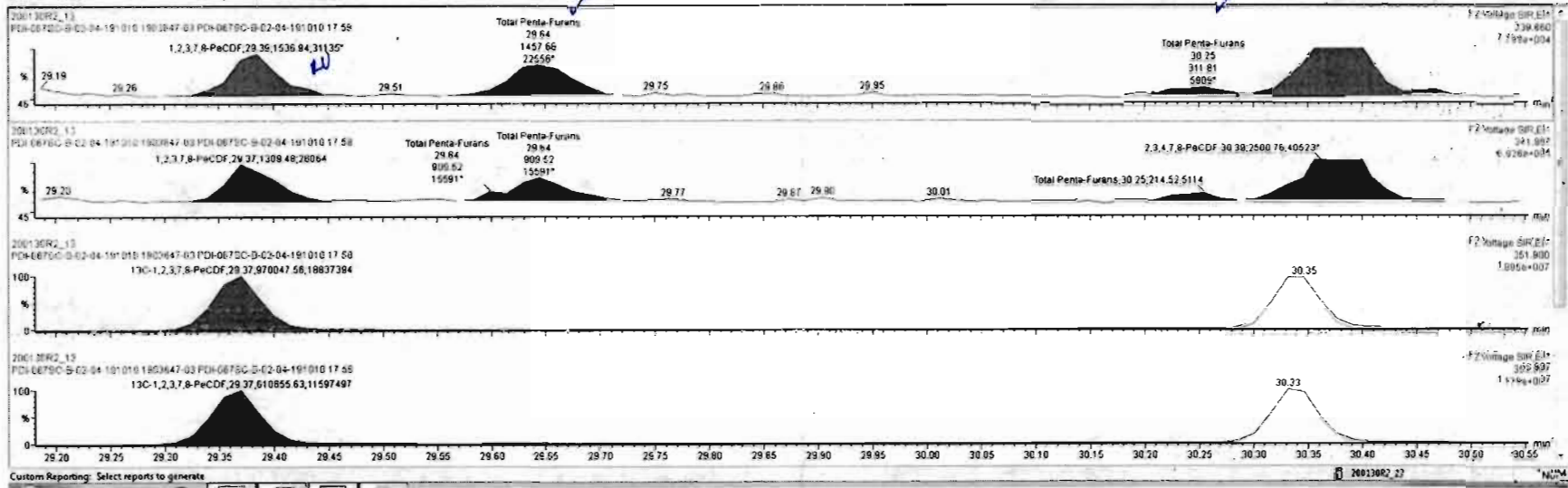
#	Name	Resp	RA	nly	RRF	wtVol	Prod RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.157	24.62		0.000	NO	0.3463		0.105	0.4797	
40	Total Penta-Dioxins				0.9116	10.157	29.96		0.000	NO	0.5063		0.104	1.145	
41	Total Hexa-Dioxins				0.7841	10.157	33.83		0.000	NO	2.943		0.111	3.184	
42	Total Hepta-Dioxins				0.7365	10.157	37.54		0.000	NO	20.90		0.274	20.90	
43	Total Tetra-Furans				0.5878	10.157	23.61		0.000	NO	5.762		0.126	5.365	
44	1st Func. Penta-Furans				0.8261	10.157	27.09		0.000	NO	4.254		0.0736	4.254	
45	Total Penta-Furans				0.8261	10.157	29.27		0.000	NO	4.281		0.0723	4.709	
46	Total Hexa-Furans				0.7665	10.157	33.56		0.000	NO	4.709		0.0832	5.556	
47	Total Hepta-Furans				0.7148	10.157	37.81		0.000	NO	1.941		0.0624	1.171	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc
1	45 Total Penta-Furans	29.27	28.27	8.398e2	5.497e2	1.550	1.53	NO	0.21381	0.21381
2	45 Total Penta-Furans	29.27	28.41	7.249e3	4.990e3	1.550	1.45	NO	1.0033	1.0033
3	45 Total Penta-Furans	29.27	28.97	3.085e3	1.808e3	1.550	1.71	NO	0.75262	0.75262
4	9 1,2,3,7,8-PeCDF	28.38	28.39	1.690e3	1.309e3	1.550	1.26	YES	0.41681	0.00000
5	45 Total Penta-Furans	29.27	29.65	1.517e3	1.010e3	1.550	1.50	NO	0.38897	0.38897
6	45 Total Penta-Furans	29.27	30.25	3.514e2	2.145e2	1.550	1.64	NO	0.087078	0.087078
7	10 1,2,3,4,7,8-PeCDF	30.38	30.38	3.728e3	2.594e3	1.550	1.44	NO	0.96525	0.96525



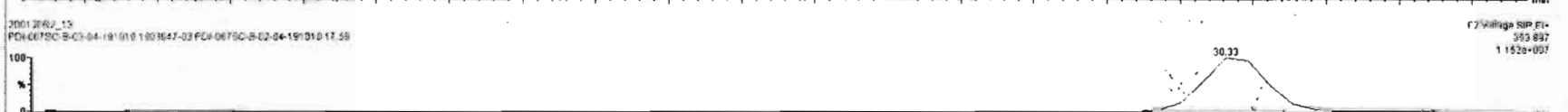
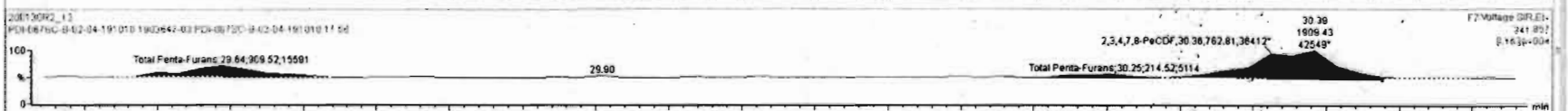
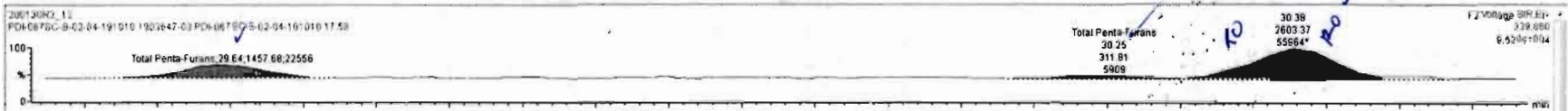
#	Name	Resp	RA	nV	RRF	wtVol	Pred RT	RT	Pred R	RRT	RR1 Fat	Conc	%Rec	DL	EMPC
38	Total Tetra-Dioxins				0.8740	10.157	24.62		0.000		NO	0.3481		0.105	0.4797
40	Total Penta-Dioxins				0.9118	10.157	29.96		0.000		NO	0.5063		0.104	1.145
41	Total Hexa-Dioxins				0.7841	10.157	33.63		0.000		NO	2.943		0.111	3.184
42	Total Hepta-Dioxins				0.7368	10.157	37.64		0.000		NO	20.80		0.274	20.80
43	Total Tetra-Furans				0.5878	10.157	23.81		0.000		NO	5.762		0.126	5.955
44	1st Func. Penta-Furans				0.8261	10.157	27.09		0.000		NO	4.254		0.0336	4.254
45	Total Penta-Furans				0.8281	10.157	28.27		0.000		NO	3.253		0.0722	4.254
46	Total Hexa-Furans				0.7685	10.157	33.56		0.000		NO	4.709		0.0832	5.556
27	Total Hepta-Furans				0.7764	10.157	37.81		0.000		NO	9.861		0.0954	9.107

#	Name	Pred RT	RT	nt Resp	m2 Resp	1* Ratio (Pred)	RA	nV	EMPC	Conc
1	Total Penta-Furans	29.27	29.41	7.023e3	4.740e3	1.550	1.48	NO	1.8115	1.8115
2	Total Penta-Furans	29.27	29.57	2.682e3	1.489e3	1.550	1.81	YES	0.58419	0.00000
3	1,2,3,7,8-PeCDF	29.39	29.39	1.680e3	1.309e3	1.550	1.28	YES	0.41691	0.00000
4	Total Penta-Furans	29.27	29.65	1.517e3	1.010e3	1.550	1.50	NO	0.38997	0.38997
5	Total Penta-Furans	29.27	30.25	3.514e2	2.145e2	1.550	1.84	NO	0.087078	0.087078
6	1,2,3,4,7,8-PeCDF	30.38	30.38	3.728e3	2.594e3	1.550	1.44	NO	0.96525	0.96525



#	Name	Resp	RA	nV	RPV	n4Avr	Pred RT	RT	Pred R	RRT	RRT Fal	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.8261	10.157	29.27		0.000	NO	2.257	0.0723	3.880		
46	Total Hexa-Furans				0.7895	10.157	33.56		0.000	NO	4.709	0.0632	5.566		
47	Total Hepta-Furans				0.7316	10.157	37.83		0.000	NO	2.966	0.0964	3.137		
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	PFK5														
53	PFK6														

#	Name	Pred RT	RT	n1 Resp	n2 Resp	1 st Ratio (Pred)	RA	nV	EMPC	Conc.
1	Total Penta-Furans	29.27	28.41	7.033e3	4.740e3	1.550	1.48	NO	1.8110	1.8115
2	Total Penta-Furans	29.27	28.97	2.093e3	1.489e3	1.550	1.81	YES	0.58400	0.00000
3	1,2,3,7,8-PeCDF	29.39	29.39	1.537e3	1.309e3	1.550	1.17	YES	0.38100	0.00000
4	Total Penta-Furans	29.27	29.64	1.458e3	9.055e2	1.550	1.80	NO	0.36400	0.36425
5	Total Penta-Furans	29.27	30.25	3.118e2	2.145e2	1.550	1.45	NO	0.091000	0.090986
6	10,2,3,4,7,8-PeCDF	30.38	30.38	1.701e3	1.336e3	1.550	1.27	YES	0.42700	0.00000

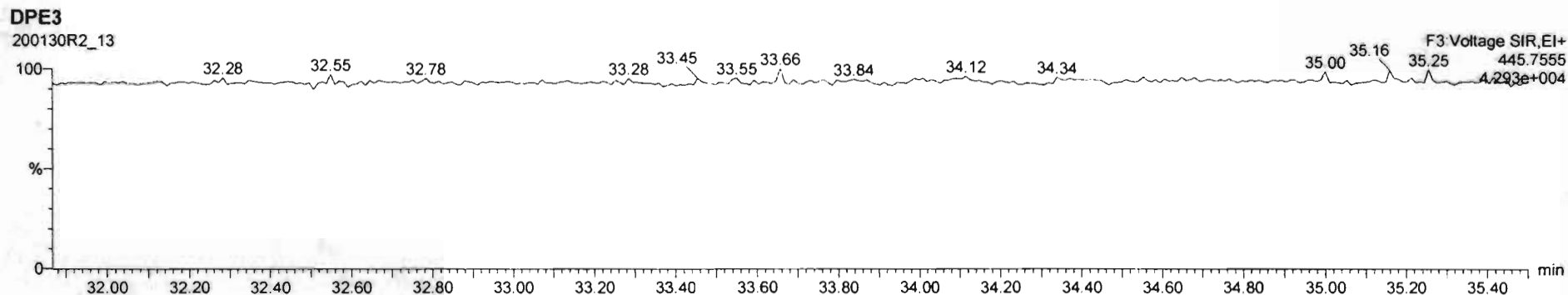
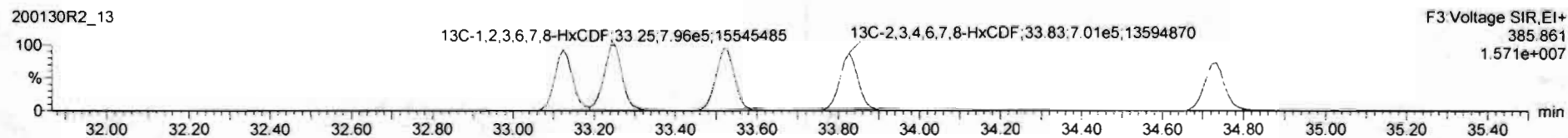
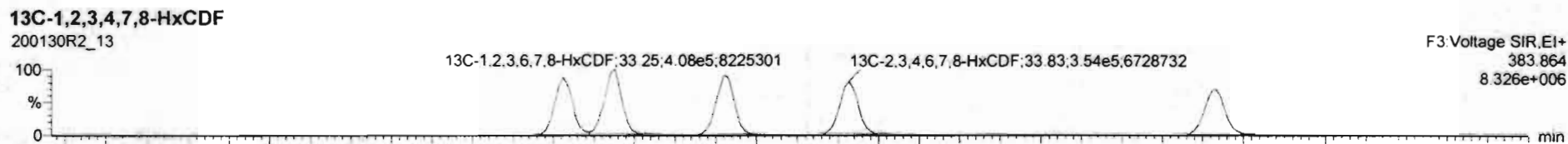
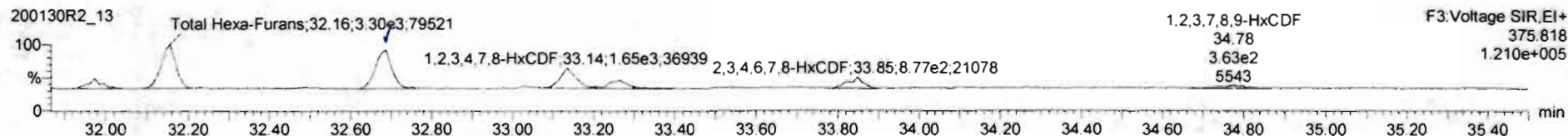
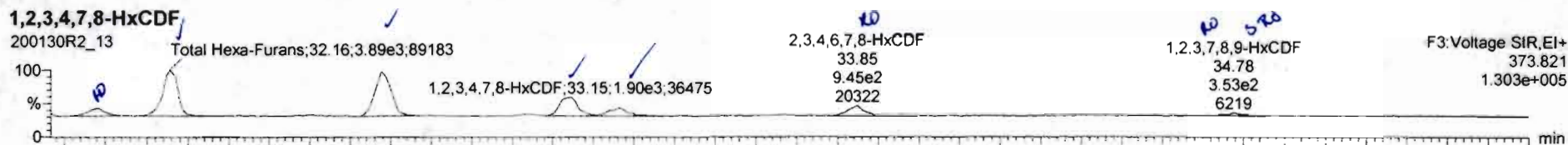


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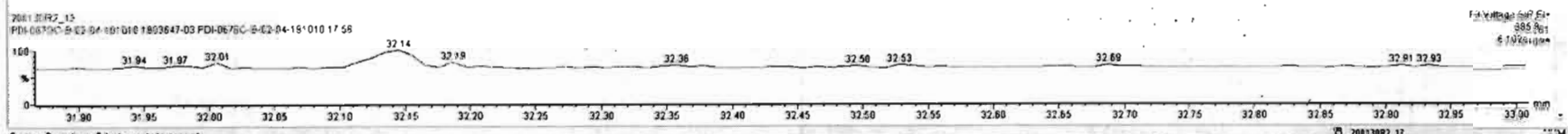
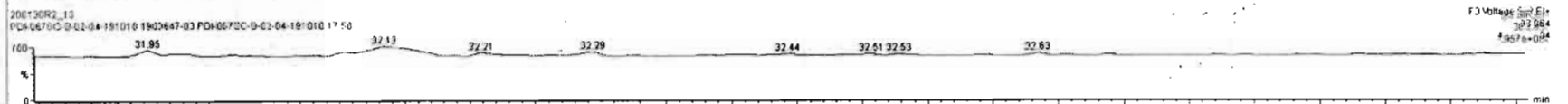
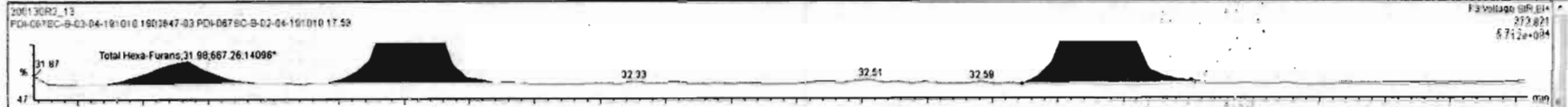
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#	Name	Resp	RA	ivY	RRF	wtAvail	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.8261	10.157	29.27		0.000		NO	2.257		0.0723	3.756
46	Total Hexa-Furans				0.7886	10.157	33.56		0.000		NO	4.814		0.0832	5.488
47	Total Hepta-Furans				0.7316	10.157	37.83		0.000		NO	2.986		0.0964	3.137
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	PFK5														

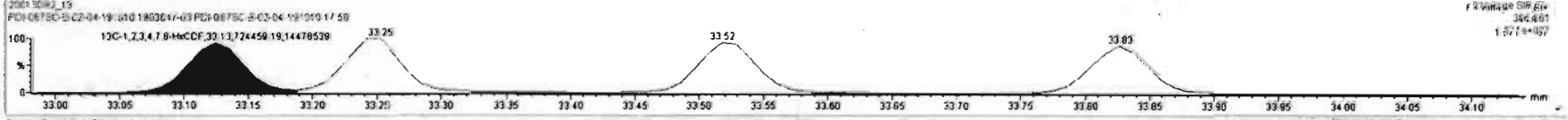
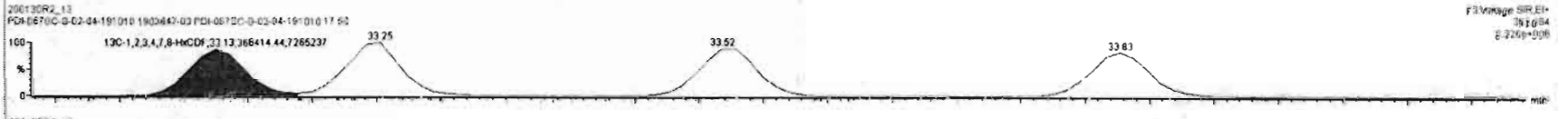
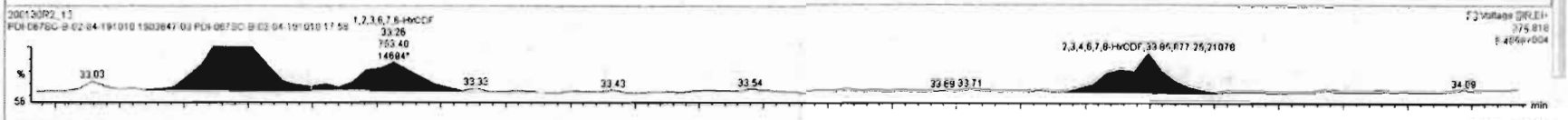
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	ivY	EMPC	Conc
1	Total Hexa-Furans	33.56	31.99	7.505e2	7.169e2	1.240	1.05	YES	0.32073	0.00000
2	Total Hexa-Furans	33.56	32.15	3.092e3	3.256e3	1.240	1.16	NO	1.7003	1.7003
3	Total Hexa-Furans	33.56	32.68	4.050e3	3.347e3	1.240	1.21	NO	1.7500	1.7500
4	1,2,3,4,7,8-HxCDF	33.13	33.15	1.874e3	1.648e3	1.240	1.14	NO	0.80814	0.80814
5	1,2,3,6,7,8-HxCDF	33.26	33.26	8.197e2	7.534e2	1.240	1.06	NO	0.35719	0.35719
6	1,2,3,4,6,7,8-HxCDF	33.86	33.85	8.667e2	8.773e2	1.240	0.99	YES	0.38869	0.00000
7	1,2,3,7,8,9-HxCDF	34.73	34.74	9.267e1	1.214e2	1.240	0.76	YES	0.046837	0.00000
8	Total Hexa-Furans	33.56	34.78	2.471e2	2.390e2	1.240	1.03	YES	0.10560	0.00000



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#	Name	Resp	RA	n/y	R/R	mVol	Pred RT	RT	Pred R	RRT	RRT Fnd	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.8261	10.157	29.27		0.000		NO	2.257	0.0723	3.766	
46	Total Hexa-Furans				0.7886	10.157	33.56		0.000		NO	4.700	0.0832	6.530	
47	Total Hepta-Furans				0.7316	10.157	37.83		0.000		NO	2.986	0.0964	3.137	
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	PFK5														

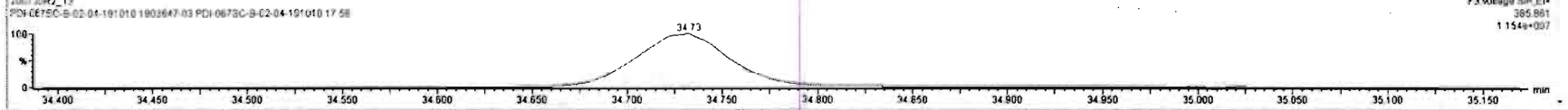
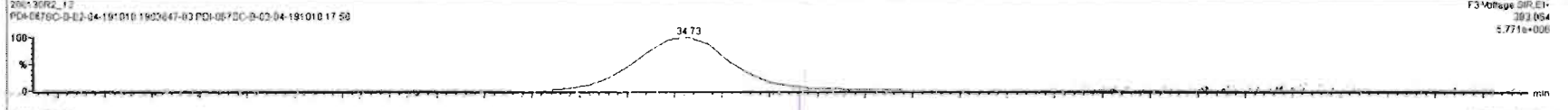
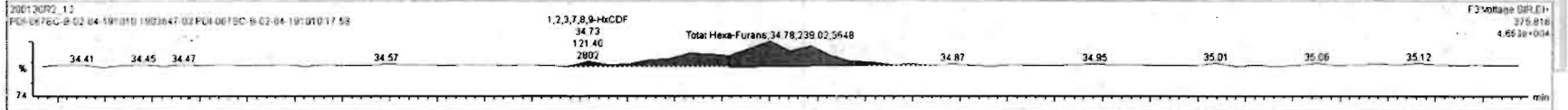
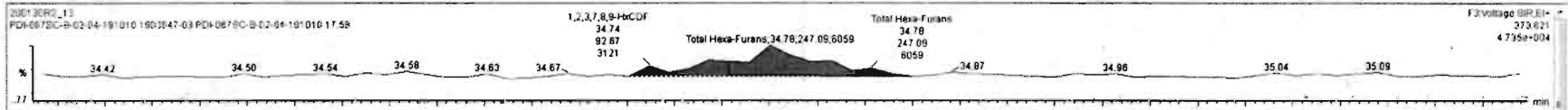
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.56	31.99	7.505e2	7.169e2	1.240	1.05	YES	0.32073	0.00000
2	Total Hexa-Furans	33.56	32.15	3.052e3	3.255e3	1.240	1.18	NO	1.7063	1.7003
3	Total Hexa-Furans	33.56	32.68	4.050e3	3.347e3	1.240	1.21	NO	1.7500	1.7500
4	1,2,3,4,7,8-HxCDF	33.13	33.15	1.505e3	1.648e3	1.240	1.16	NO	0.81517	0.81517
5	1,2,3,6,7,8-HxCDF	33.26	33.26	8.467e2	8.324e2	1.240	1.02	YES	0.34814	0.00000
6	1,2,3,4,6,7,8-HxCDF	33.86	33.85	8.452e2	8.773e2	1.240	1.08	NO	0.44368	0.44368
7	1,2,3,7,8,9-HxCDF	34.73	34.74	9.267e1	1.214e2	1.240	0.76	YES	0.046837	0.00000
8	Total Hexa-Furans	33.56	34.78	2.471e2	2.390e2	1.240	1.03	YES	0.10560	0.00000



2011082-13-1903647-FID-0675C-B-02-04-191010-17-58-FID-0675C-B-02-04-191010

#	Name	Resp	RA	n/y	RRF	wtAvg	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	BMP
45	Total Penta-Furans				0.8261	10.157	29.27		0.000		NO	2.257	0.0723	3.768	
46	Total Hexa-Furans				0.7885	10.167	33.56		0.000		NO	4.816	0.0835	6.469	
47	Total Hepta-Furans				0.7316	10.157	37.83		0.000		NO	2.986	0.0964	3.137	
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	PFK5														
53	Index														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	BMP	Conc.
1	Total Hexa-Furans	33.56	31.99	7.505e2	7.169e2	1.240	1.05	YES	0.32073	0.00000
2	Total Hexa-Furans	33.56	32.15	3.892e3	3.295e3	1.240	1.18	NO	1.7003	1.7003
3	Total Hexa-Furans	33.56	32.68	4.050e3	3.347e3	1.240	1.21	NO	1.7500	1.7500
4	1,2,3,4,7,8-HxCDF	33.13	33.15	1.874e3	1.648e3	1.240	1.14	NO	0.80814	0.80814
5	1,2,3,6,7,8-HxCDF	33.26	33.26	8.157e2	7.534e2	1.240	1.00	NO	0.35719	0.35719
6	1,2,3,6,7,8-HxCDF	33.86	33.85	8.687e2	8.773e2	1.240	0.98	YES	0.38069	0.00000
7	1,2,3,7,8-HxCDF	34.73	34.74	9.267e1	1.214e2	1.240	0.76	YES	0.046637	0.00000
8	Total Hexa-Furans	33.56	34.78	2.471e2	2.380e2	1.240	1.03	YES	0.10560	0.00000



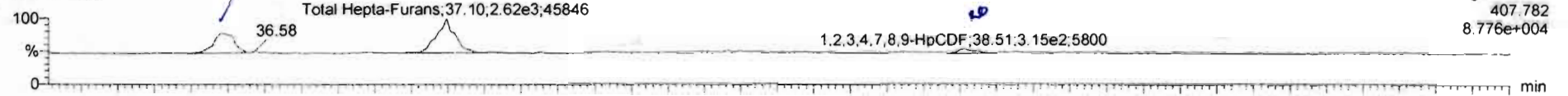
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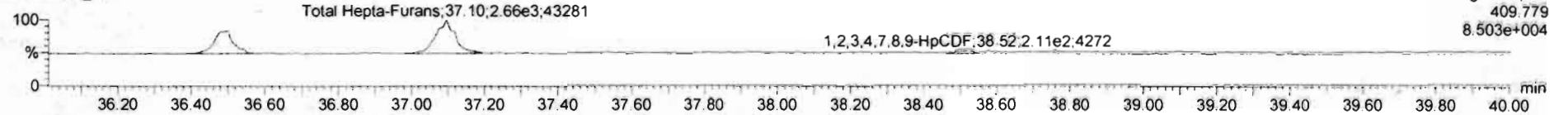
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1,2,3,4,6,7,8-HpCDF

200130R2_13

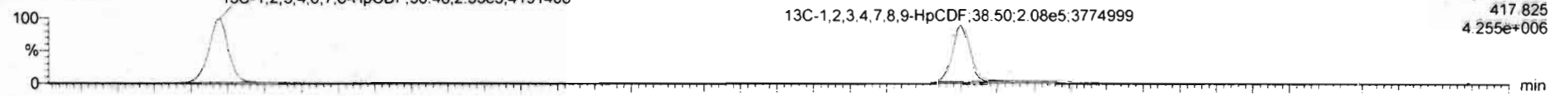


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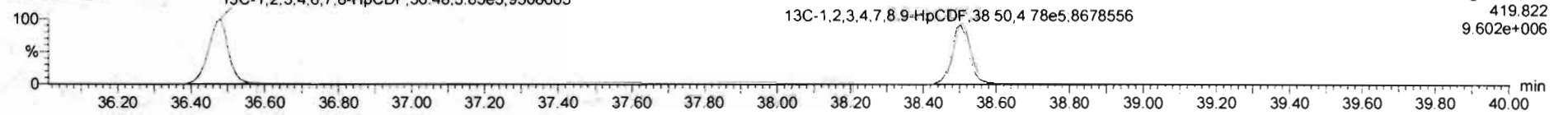


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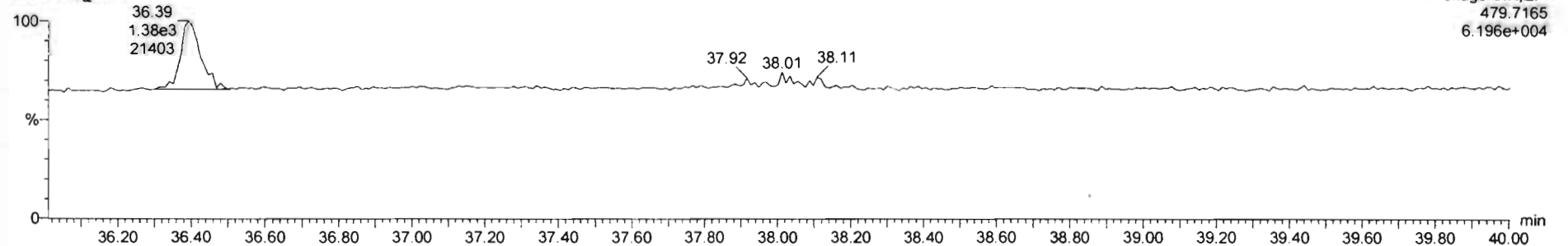


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DPE4

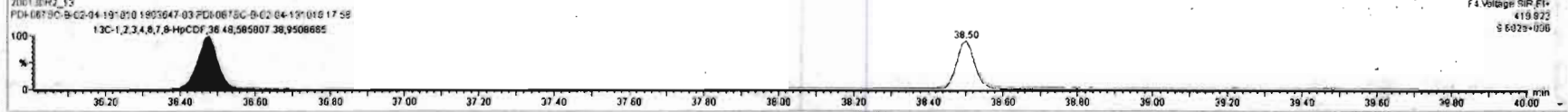
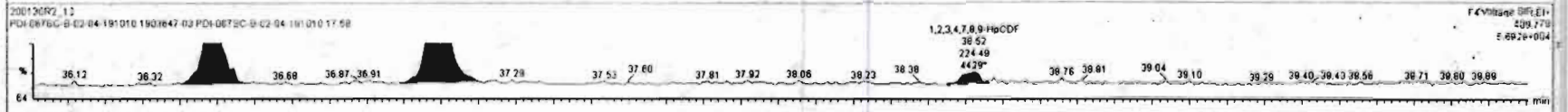
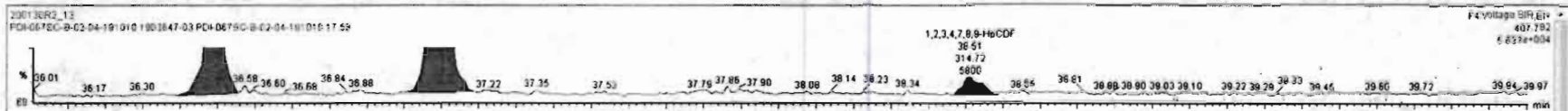
200130R2_13



200130R2_13 - 190367-03 FID0675C-B-C2-04-191010-17-59 - FID-VOLTAGE-SIR-FI+

#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT1	Fail	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.8261	10.157	29.27		0.000			NO	2.257	0.0723	3.766	
46	Total Hexa-Furans				0.7885	10.157	33.56		0.000			NO	4.561	0.0032	5.368	
47	Total Hexa-Furans				0.7316	10.157	37.83		0.000			NO	2.986	0.0064	3.137	
48	PFK1															
49	PFK2															
50	PFK3															
51	PFK4															
52	PFK5															
53	<1>None															

#	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	36.52	36.48	1.700e3	1.789e3	1.040	0.95	NO	1.1230	1.1230
2	Total Hexa-Furans	37.83	37.10	2.615e3	2.062e3	1.040	0.96	NO	1.0633	1.0633
3	1,2,3,4,7,8-HpCDF	36.50	38.51	3.147e2	2.106e2	1.040	1.49	YES	0.15094	0.00000

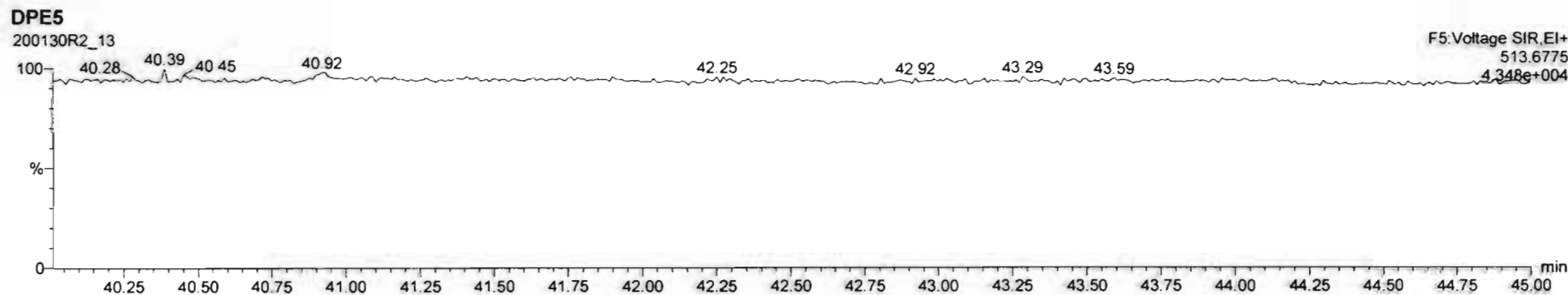
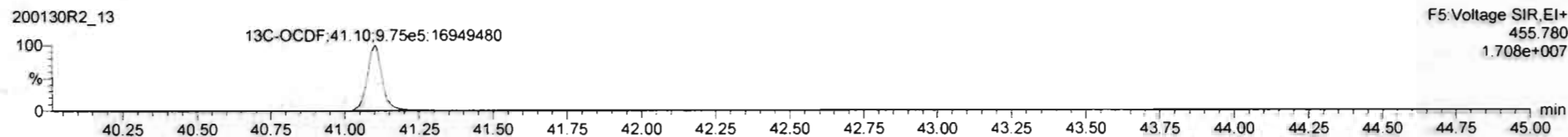
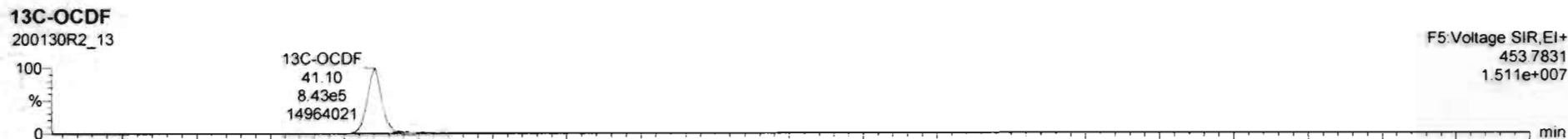
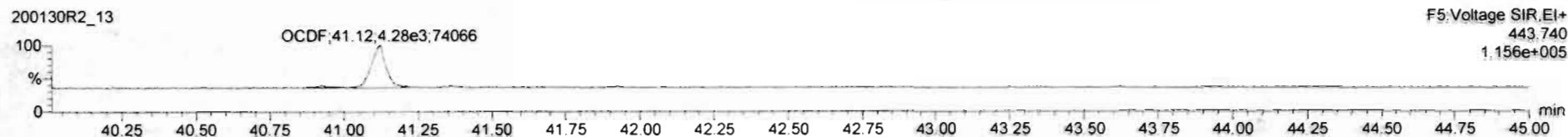
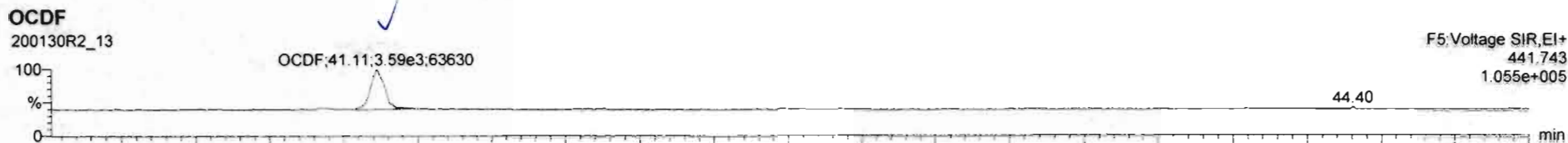


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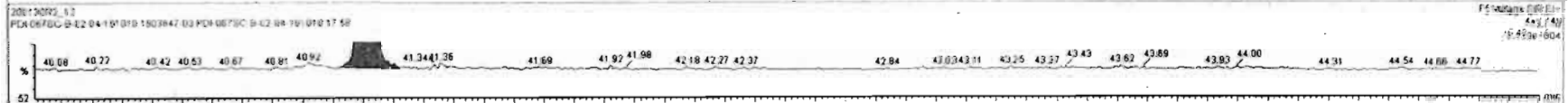
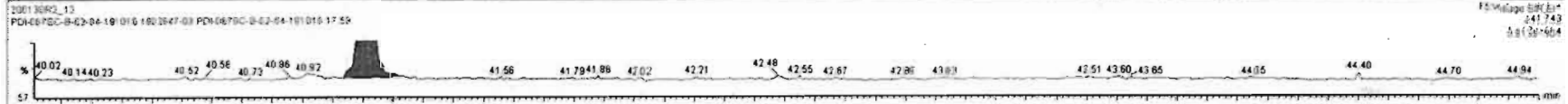
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200130R2_13_1903647-03.PDA-0675C-B-02-04-191010-17.58 - PDA-0675C-B-02-04-191010

#	Name	Resp	RA	n/y	RRF	wtAve	Pred RT	RT	Pred R	RRT	RRT Rat	Conc.	%Rec	DL	EMPC
17	OCDF	7.87e3	0.84	NO	0.6388	10.157	41.10	41.11	1.000	1.000	NO	2.668		0.0047	2.668
18	13C-2,3,7,8-TCDD	1.23e6	0.78	NO	1.1157	10.157	25.72	25.70	1.026	1.025	NO	201.9	134	0.224	
19	13C-1,2,3,7,8-PeCDD	1.10e5	0.63	NO	0.8411	10.157	30.47	30.64	1.215	1.222	NO	241.7	120	0.294	
20	13C-1,2,3,4,7,8-HxCDD	9.58e5	1.27	NO	0.9279	10.157	33.89	34.00	1.014	1.014	NO	176.7	89.7	0.334	
21	13C-1,2,3,6,7,8-HxCDD	1.10e5	1.26	NO	1.0654	10.157	34.09	34.09	1.017	1.017	NO	176.8	88.8	0.338	
22	13C-1,2,3,7,8-HxCDD	1.11e5	1.25	NO	1.0303	10.157	34.39	34.37	1.026	1.025	NO	163.8	93.4	0.390	
23	13C-1,2,3,4,6,7,8-HpCDD	9.88e5	1.00	NO	0.7099	10.157	37.94	37.91	1.132	1.131	NO	227.9	121	0.661	
24	13C-OCDF	1.89e6	0.88	NO	0.62010	10.157	40.33	40.91	1.218	1.220	NO	480.7	122	0.331	
25	13C-1,2,3,7,8-HxCDF	1.40e4	0.78	NO	1.0767	10.147	34.90	34.84	0.9021	0.900	NO	183.1	91.6	0.742	

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

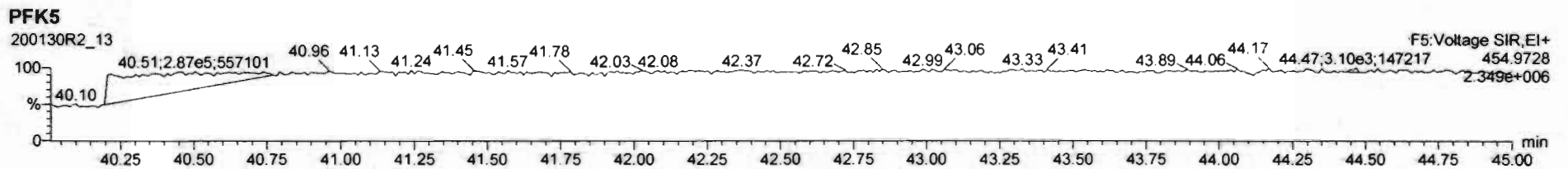
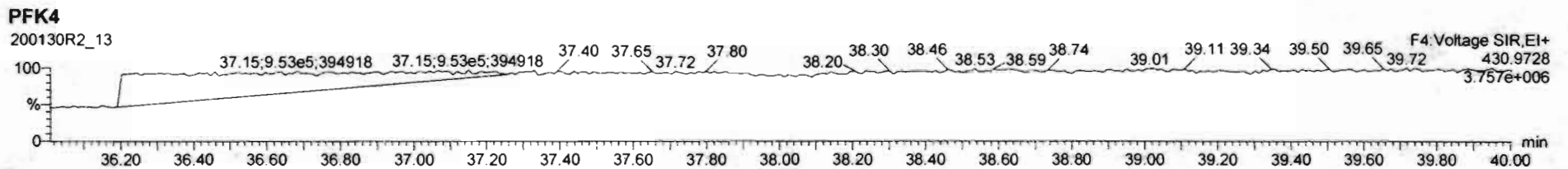
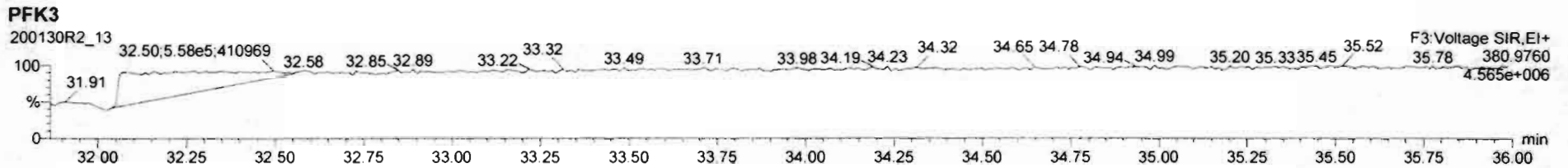
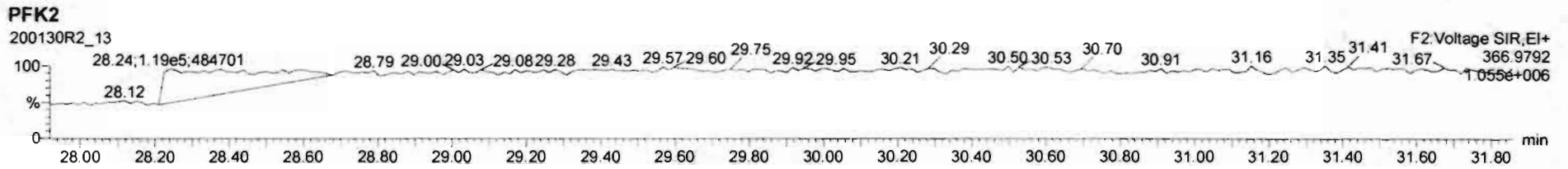
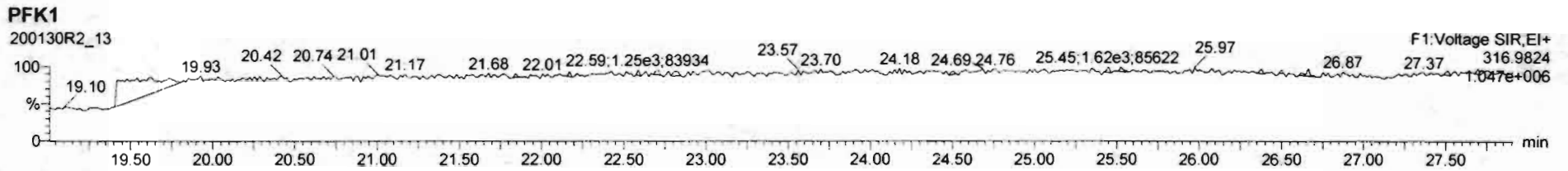


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Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

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GRB 02/04/2020

C7 02/05/2020

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.824	10.131	25.736		1.001				0.0723	
2	2 1,2,3,7,8-PeCDD			NO	0.912	10.131	30.657		1.001				0.0737	
3	3 1,2,3,4,7,8-HxCDD			NO	0.870	10.131	33.997		1.000				0.0822	
4	4 1,2,3,6,7,8-HxCDD			NO	0.784	10.131	34.094		1.000				0.0847	
5	5 1,2,3,7,8,9-HxCDD			NO	0.798	10.131	34.405		1.001				0.0874	
6	6 1,2,3,4,6,7,8-HpCDD	1.47e3	1.07	NO	0.737	10.131	37.918	37.93	1.000	1.001	0.43265		0.131	0.433
7	7 OCDD	7.43e3	0.91	NO	0.800	10.131	40.910	40.91	1.000	1.000	2.3204		0.107	2.32
8	8 2,3,7,8-TCDF			NO	0.588	10.131	24.847		1.001				0.0798	
9	9 1,2,3,7,8-PeCDF			NO	0.826	10.131	29.376		1.001				0.0519	
10	10 2,3,4,7,8-PeCDF			NO	0.850	10.131	30.361		1.001				0.0489	
11	11 1,2,3,4,7,8-HxCDF			NO	0.787	10.131	33.125		1.000				0.0602	
12	12 1,2,3,6,7,8-HxCDF			NO	0.720	10.131	33.252		1.000				0.0582	
13	13 2,3,4,6,7,8-HxCDF			NO	0.766	10.131	33.851		1.001				0.0644	
14	14 1,2,3,7,8,9-HxCDF			NO	0.709	10.131	34.722		1.000				0.0864	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.732	10.131	36.505		1.001				0.0942	
16	16 1,2,3,4,7,8,9-HpCDF			NO	0.816	10.131	38.503		1.000				0.0877	
17	17 OCDF	4.38e2	1.09	YES	0.639	10.131	41.102	41.13	1.000	1.001	0.15450		0.0836	0.143
18	18 13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.12	10.131	25.706	25.70	1.026	1.026	197.87	100	0.201	
19	19 13C-1,2,3,7,8-PeCDD	1.01e6	0.65	NO	0.841	10.131	30.450	30.64	1.215	1.222	230.08	117	0.279	
20	20 13C-1,2,3,4,7,8-HxCDD	9.61e5	1.26	NO	0.938	10.131	33.988	33.99	1.014	1.014	180.38	91.4	0.252	
21	21 13C-1,2,3,6,7,8-HxCDD	1.05e6	1.26	NO	1.07	10.131	34.089	34.09	1.017	1.017	173.34	87.8	0.222	
22	22 13C-1,2,3,7,8,9-HxCDD	1.03e6	1.24	NO	1.03	10.131	34.390	34.37	1.026	1.025	175.10	88.7	0.230	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.13e5	1.03	NO	0.710	10.131	37.944	37.91	1.132	1.131	226.24	115	0.520	
24	24 13C-OCDD	1.58e6	0.90	NO	0.601	10.131	40.826	40.91	1.218	1.221	462.56	117	0.340	
25	25 13C-2,3,7,8-TCDF	1.53e6	0.77	NO	1.04	10.131	24.887	24.82	0.993	0.990	180.93	91.6	0.261	
26	26 13C-1,2,3,7,8-PeCDF	1.49e6	1.59	NO	0.917	10.131	29.222	29.35	1.166	1.171	198.31	100	0.397	
27	27 13C-2,3,4,7,8-PeCDF	1.47e6	1.56	NO	0.903	10.131	30.175	30.33	1.204	1.210	199.37	101	0.403	
28	28 13C-1,2,3,4,7,8-HxCDF	1.02e6	0.51	NO	0.861	10.131	33.117	33.13	0.988	0.988	209.17	106	0.511	
29	29 13C-1,2,3,6,7,8-HxCDF	1.17e6	0.51	NO	1.05	10.131	33.217	33.24	0.991	0.992	196.25	99.4	0.420	
30	30 13C-2,3,4,6,7,8-HxCDF	1.04e6	0.50	NO	0.946	10.131	33.824	33.82	1.009	1.009	193.12	97.8	0.465	
31	31 13C-1,2,3,7,8,9-HxCDF	9.25e5	0.50	NO	0.816	10.131	34.726	34.72	1.036	1.036	199.56	101	0.539	

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-14.qld

Last Altered: Tuesday, February 04, 2020 13:53:48 Pacific Standard Time

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Name: 200130R2_14, Date: 31-Jan-2020, Time: 00:37:32, ID: 1903647-04 PDI-067SC-B-04-06-191010 15.56, Description: PDI-067SC-B-04-06-191010

#	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	7.95e5	0.43	NO	0.589	10.131	36.469	36.47	1.088	1.088	237.43	120	0.550	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.45e5	0.43	NO	0.448	10.131	38.480	38.50	1.148	1.149	253.48	128	0.724	
34	34 13C-OCDF	1.71e6	0.88	NO	0.586	10.131	41.061	41.10	1.225	1.226	513.03	130	0.340	
35	35 37Cl-2,3,7,8-TCDD	4.57e5			1.09	10.131	25.739	25.72	1.027	1.026	80.382	102	0.0984	
36	36 13C-1,2,3,4-TCDD	1.03e6	0.80	NO	1.00	10.131	25.080	25.06	1.000	1.000	197.42	100	0.224	
37	37 13C-1,2,3,4-TCDF	1.61e6	0.79	NO	1.00	10.131	23.420	23.40	1.000	1.000	197.42	100	0.270	
38	38 13C-1,2,3,4,6,9-HxCDF	1.12e6	0.51	NO	1.00	10.131	33.520	33.52	1.000	1.000	197.42	100	0.440	
39	39 Total Tetra-Dioxins				0.824	10.131	24.620		0.000				0.0411	
40	40 Total Penta-Dioxins				0.912	10.131	29.960		0.000				0.0331	
41	41 Total Hexa-Dioxins				0.784	10.131	33.635		0.000		0.00000		0.0539	0.125
42	42 Total Hepta-Dioxins				0.737	10.131	37.640		0.000		0.92577		0.131	0.926
43	43 Total Tetra-Furans				0.588	10.131	23.610		0.000		0.00000		0.0355	0.150
44	44 1st Func. Penta-Furans				0.826	10.131	27.090		0.000				0.0164	
45	45 Total Penta-Furans				0.826	10.131	29.275		0.000				0.0220	
46	46 Total Hexa-Furans				0.766	10.131	33.555		0.000				0.0338	
47	47 Total Hepta-Furans				0.732	10.131	37.835		0.000				0.0479	

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-14.qld

Last Altered: Tuesday, February 04, 2020 13:53:48 Pacific Standard Time
 Printed: Tuesday, February 04, 2020 13:56:29 Pacific Standard Time

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Name: 200130R2_14, Date: 31-Jan-2020, Time: 00:37:32, ID: 1903647-04 PDI-067SC-B-04-06-191010 15.56, Description: PDI-067SC-B-04-06-191010

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.52	7.066e3	6.439e3	3.307e2	2.243e2	1.47	YES	0.000e0	0.00000	0.12502	0.0882

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.90	1.384e4	1.206e4	8.345e2	8.456e2	0.99	NO	1.680e3	0.49312	0.49312	0.131
2	1,2,3,4,6,7,8-HpCDD	37.93	1.150e4	1.014e4	7.629e2	7.112e2	1.07	NO	1.474e3	0.43265	0.43265	0.131

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.78	4.411e3	3.988e3	4.306e2	3.872e2	1.11	YES	0.000e0	0.00000	0.15010	0.0798

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-14.qld

Last Altered: Tuesday, February 04, 2020 13:53:48 Pacific Standard Time

Printed: Tuesday, February 04, 2020 13:56:29 Pacific Standard Time

Name: 200130R2_14, Date: 31-Jan-2020, Time: 00:37:32, ID: 1903647-04 PDI-067SC-B-04-06-191010 15.56, Description: PDI-067SC-B-04-06-191010

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

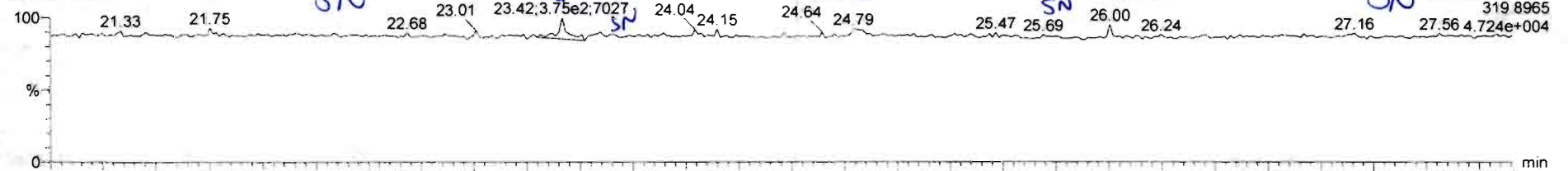
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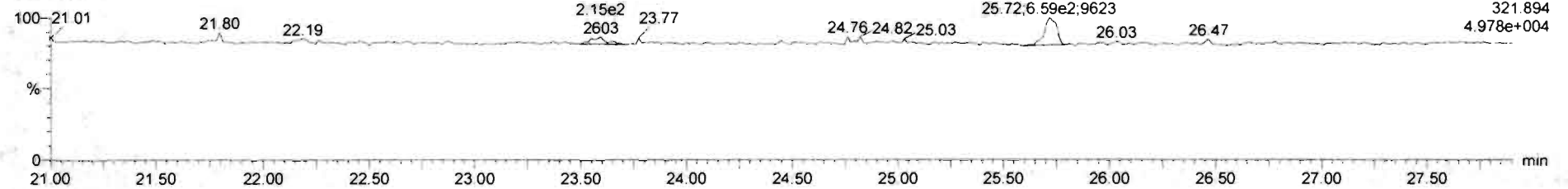
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2,3,7,8-TCDD

200130R2_14

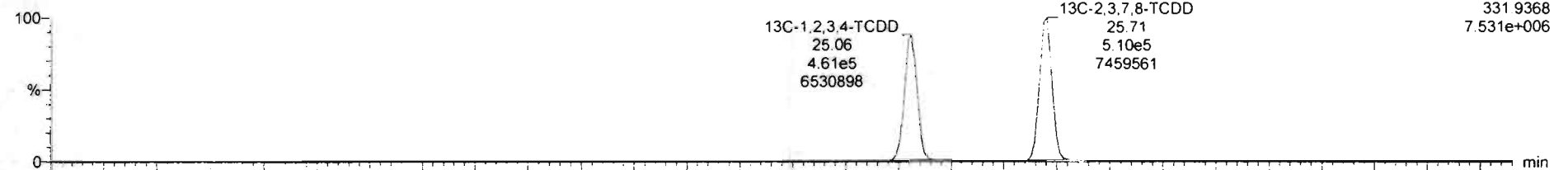


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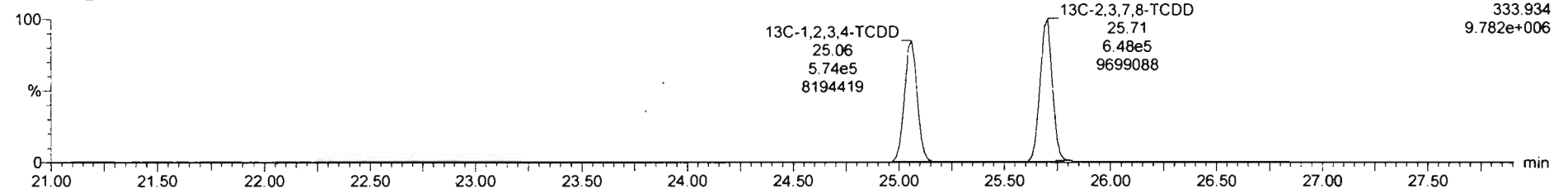


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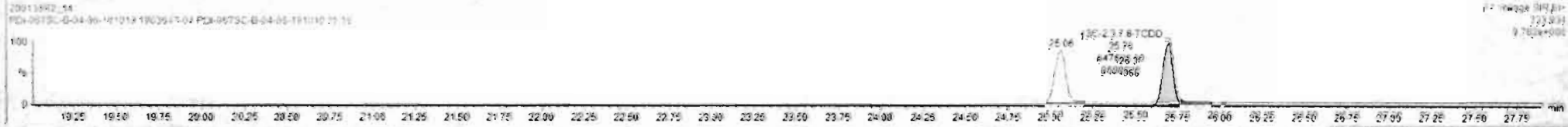
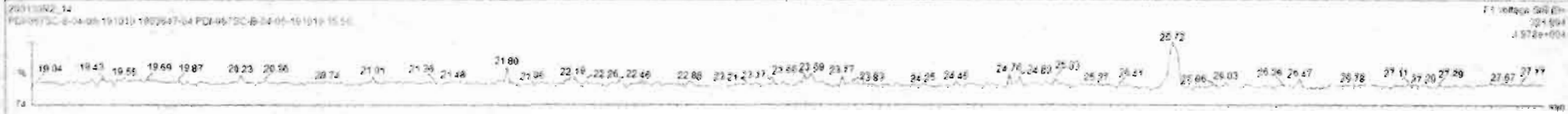
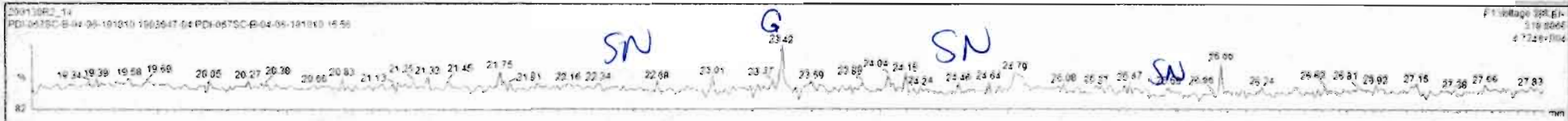
200130R2_14



200130R2_14



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8240	10.131					0.0411	
40 Total Penta-Dioxins				0.9116	10.131					0.0331	
41 Total Hexa-Dioxins				0.7841	10.131			0.000		0.0539	0.154
42 Total Hepta-Dioxins				0.7385	10.131			0.564		0.131	0.871
43 Total Tetra-Furans				0.5878	10.131			0.000		0.0365	0.152
44 1st Func. Penta-Furans				0.8261	10.131					0.0164	
45 Total Penta-Furans				0.8261	10.131					0.0220	
46 Total Hexa-Furans				0.7865	10.131					0.0336	
47 Total Hepta-Furans				0.7516	10.131					0.0479	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											



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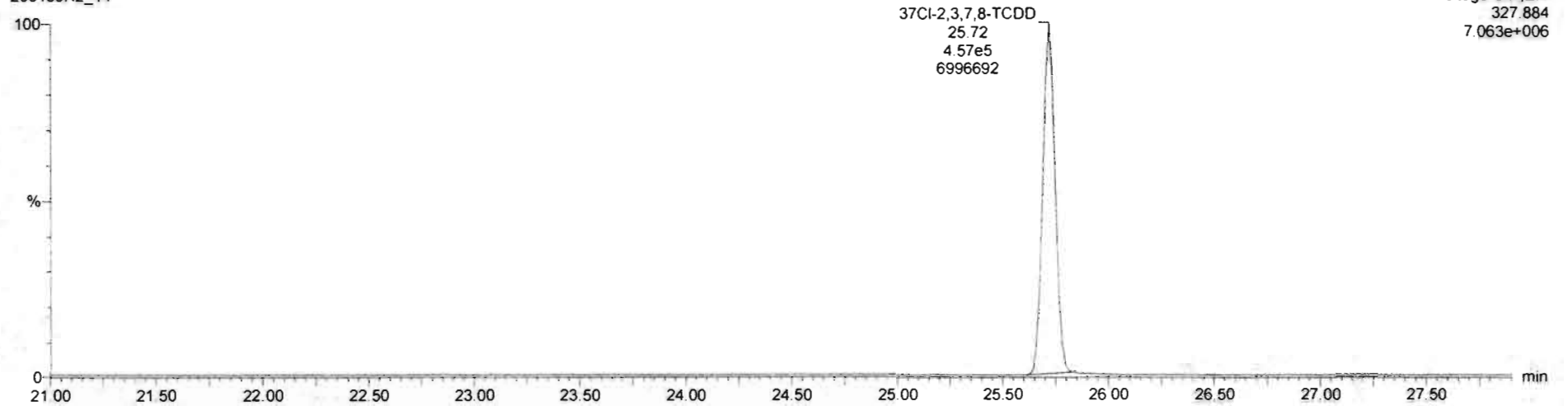
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Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_14, Date: 31-Jan-2020, Time: 00:37:32, ID: 1903647-04 PDI-067SC-B-04-06-191010 15.56, Description: PDI-067SC-B-04-06-191010

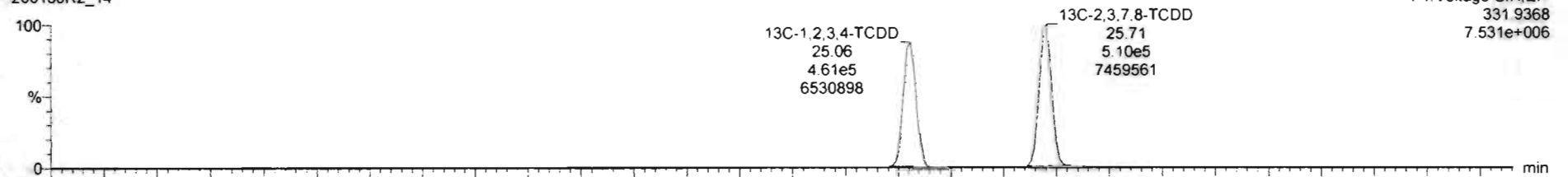
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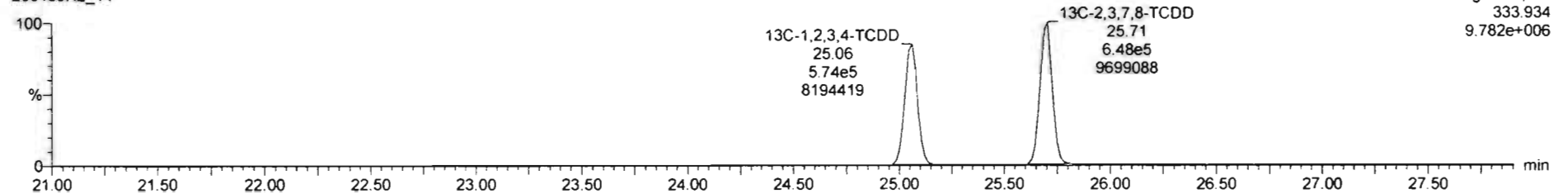


13C-1,2,3,4-TCDD

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200130R2_14



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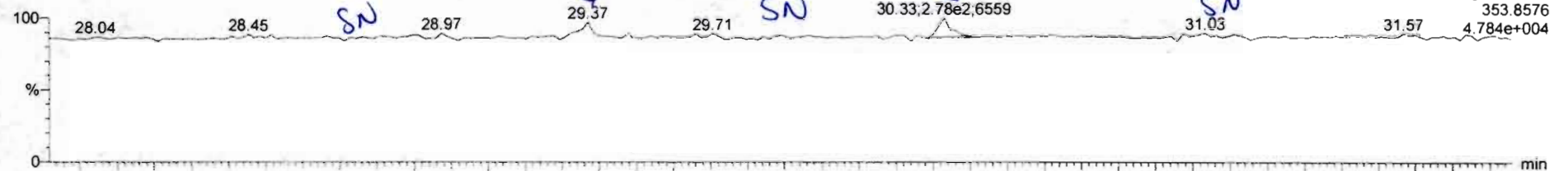
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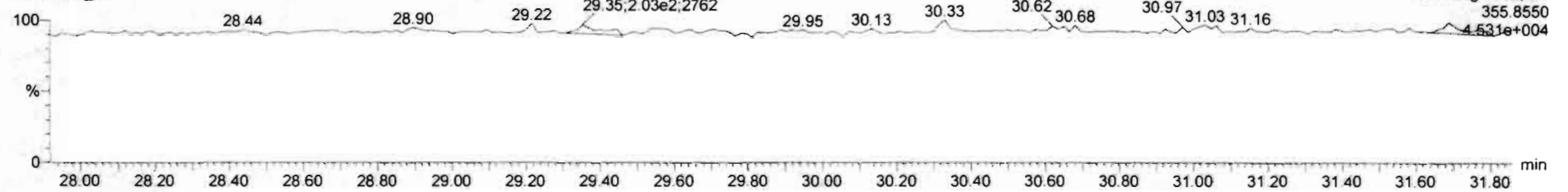
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1,2,3,7,8-PeCDD

200130R2_14

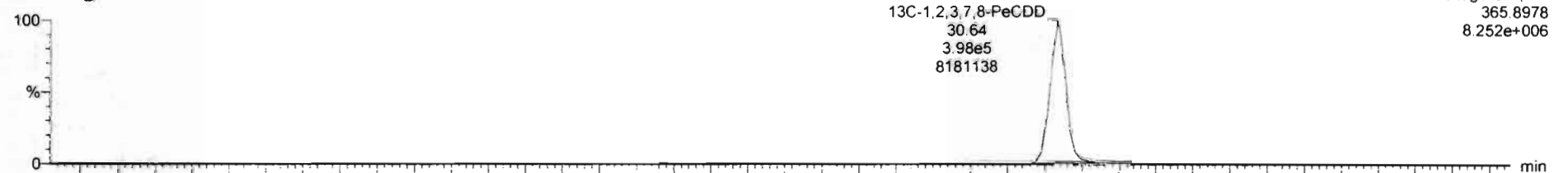


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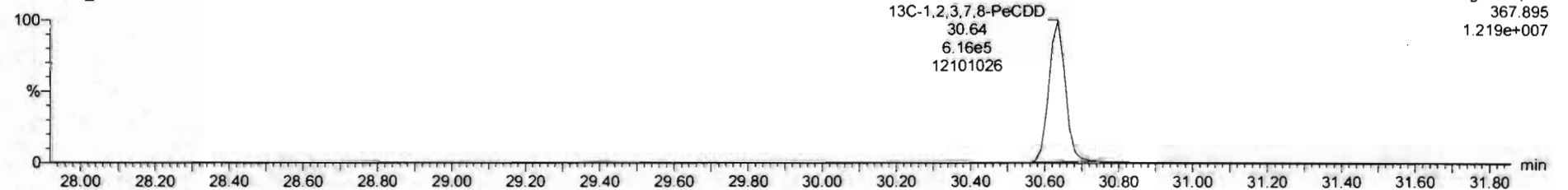


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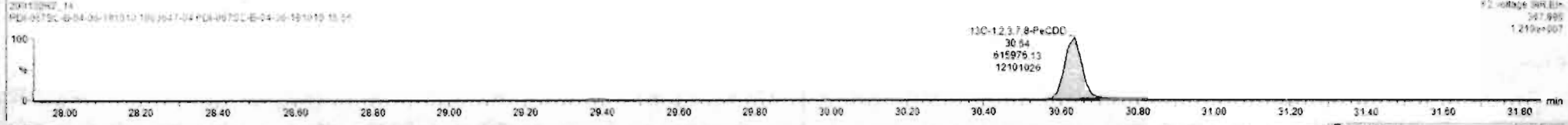
200130R2_14



200130R2_14



#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.131					0.0411	
40	Total Penta-Dioxins				0.9116	10.131					0.0321	
41	Total Hexa-Dioxins				0.7841	10.131			0.000		0.0539	0.154
42	Total Hepta-Dioxins				0.7369	10.131			0.564		0.131	0.671
43	Total Tetra-Furans				0.5878	10.131			0.000		0.0355	0.152
44	1st Func. Penta-Furans				0.8261	10.131					0.0164	
45	Total Penta-Furans				0.8261	10.131					0.0220	
46	Total Hexa-Furans				0.7665	10.131					0.0336	
47	Total Hepta-Furans				0.7396	10.131					0.0479	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	CPPE1											
54	CPPE2											
55	CPPE3											

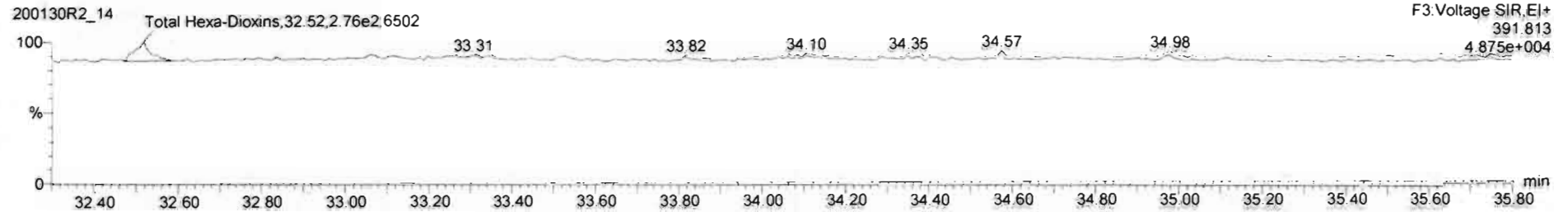
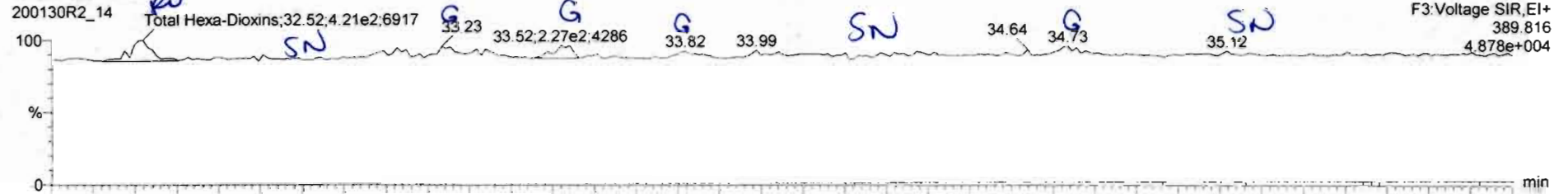


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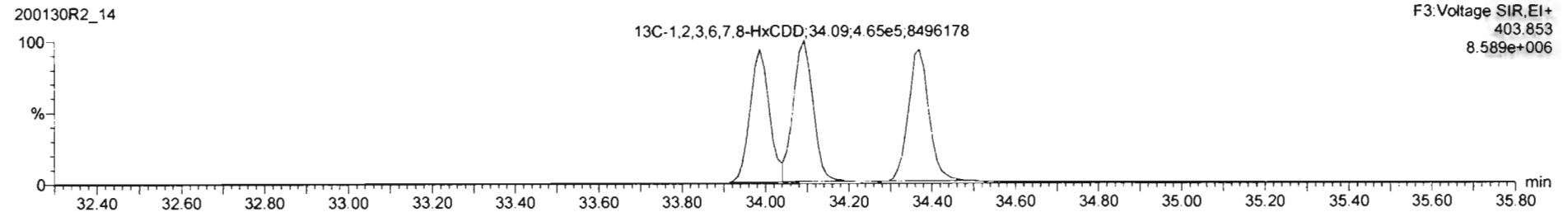
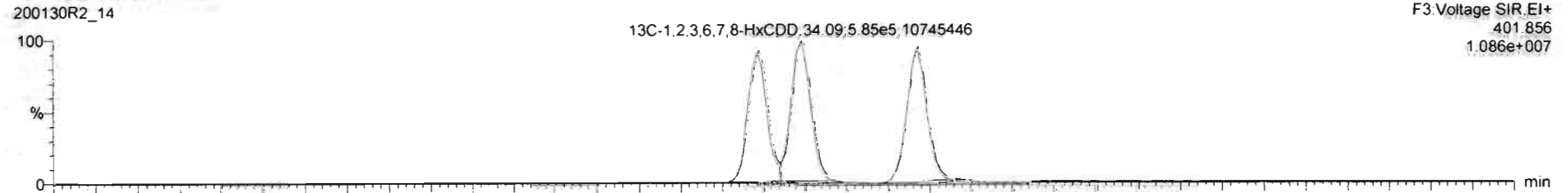
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1,2,3,4,7,8-HxCDD



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



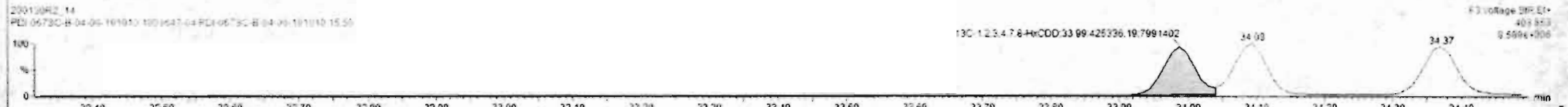
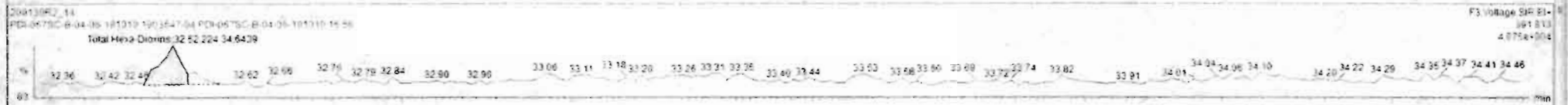
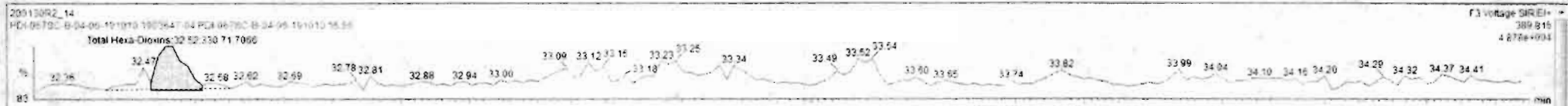
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200130R2_14 : 1903647-04 PDI-067SC-B-04-06-191010 15:56 PDI-067SC-B-04-06-191010

Name	Resp	RA	nLy	RRf	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8242	10.131				0.0411		
40 Total Penta-Dioxins				0.9116	10.131				0.0321		
41 Total Hexa-Dioxins				0.7641	10.131			0.000	0.0539	0.125	
42 Total Hepta-Dioxins				0.7394	10.131			0.564	0.171	0.471	

Name	RT	m1 Resp	m2 Resp	RA	nLy	EMPC	Conc.
1 Total Hexa-Dioxins	32.52	3.307e2	2.243e2	1.47	YES	0.12502	0.00000

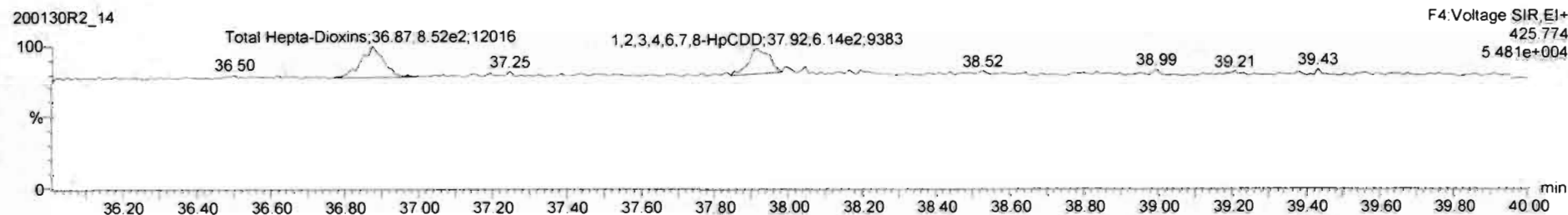
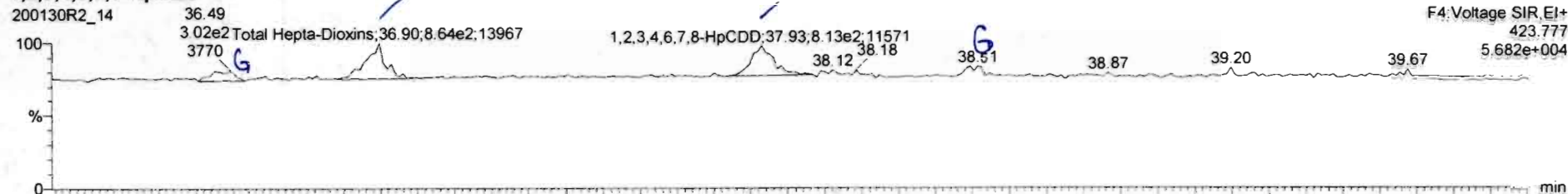


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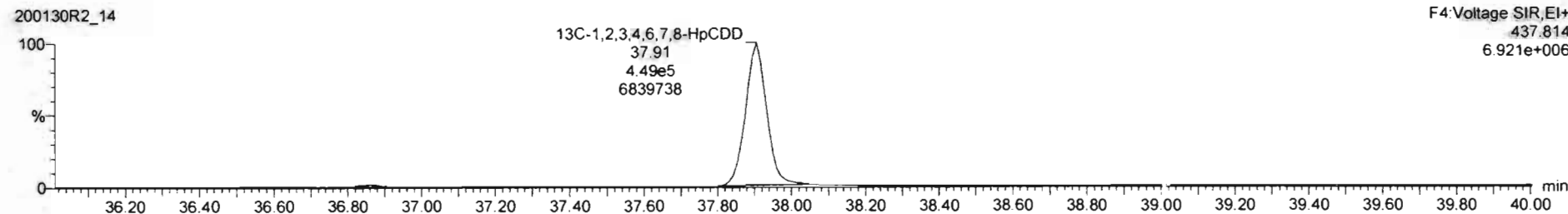
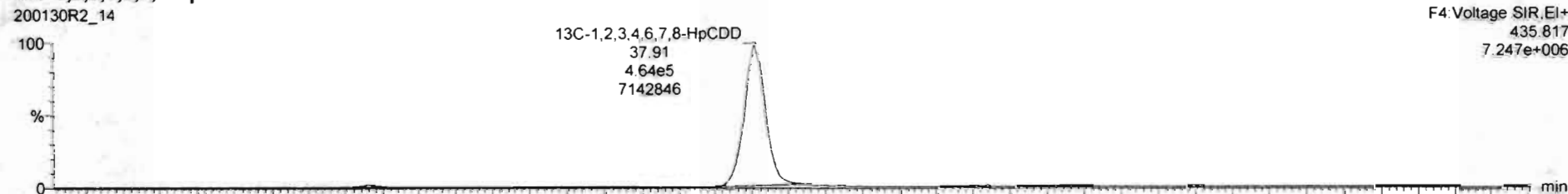
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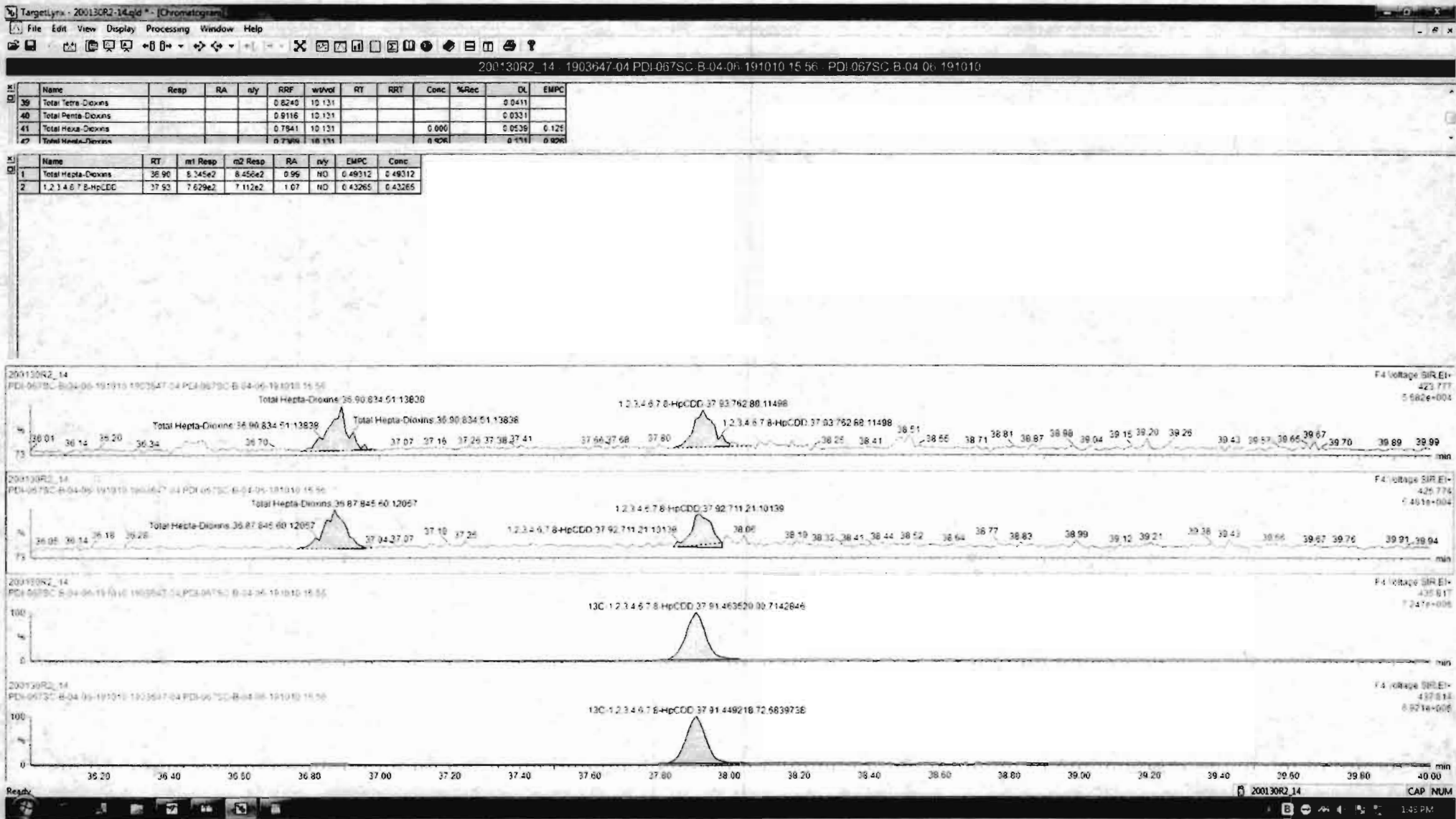
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1,2,3,4,6,7,8-HpCDD



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

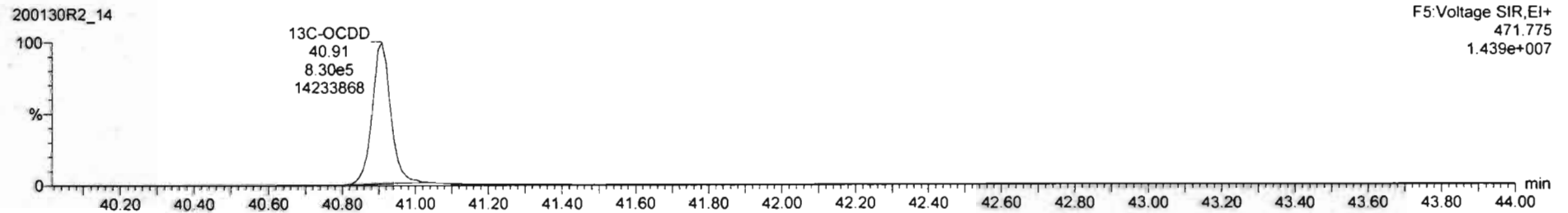
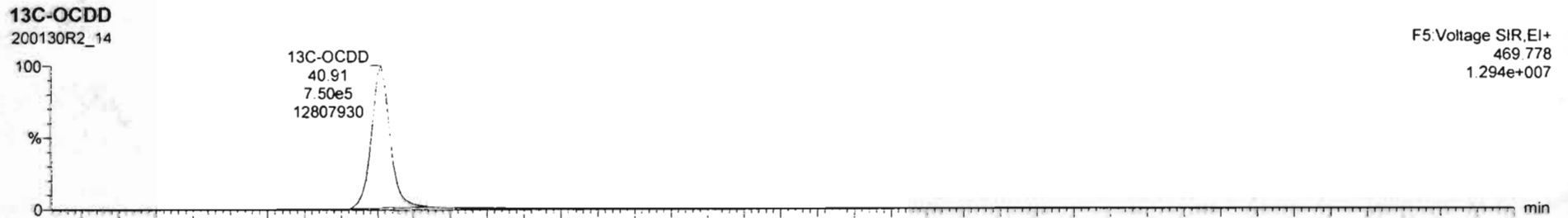
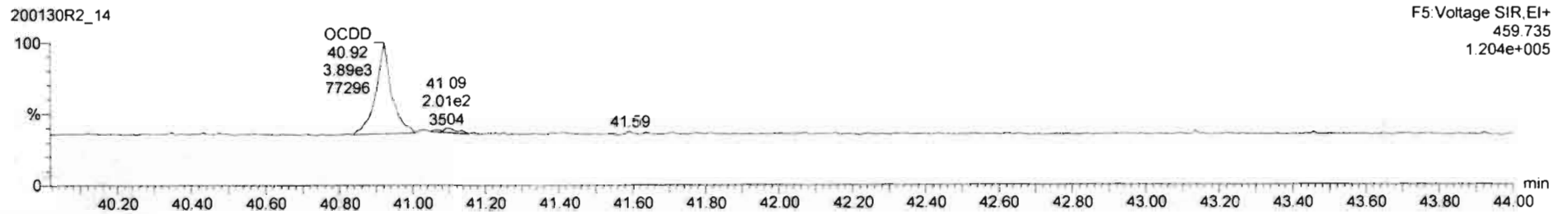
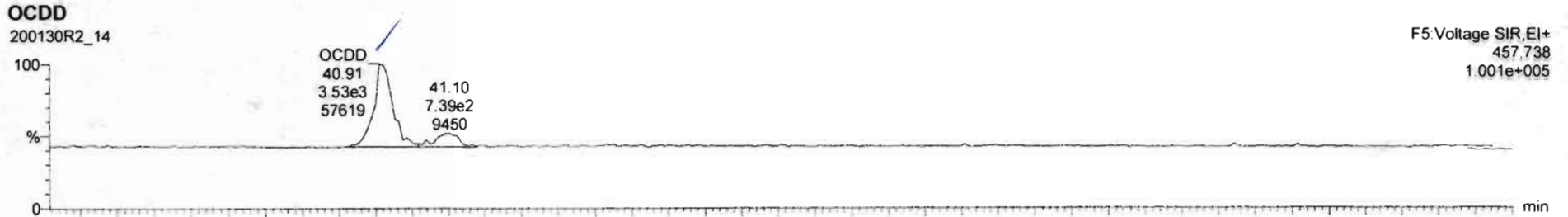




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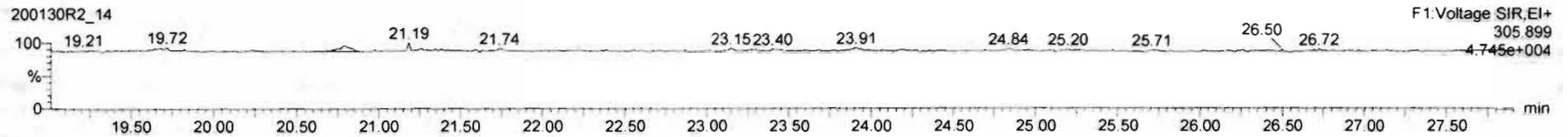
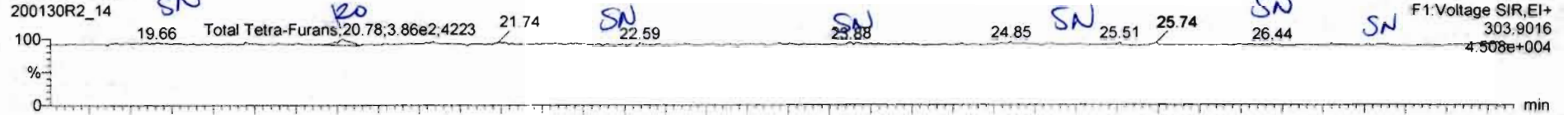


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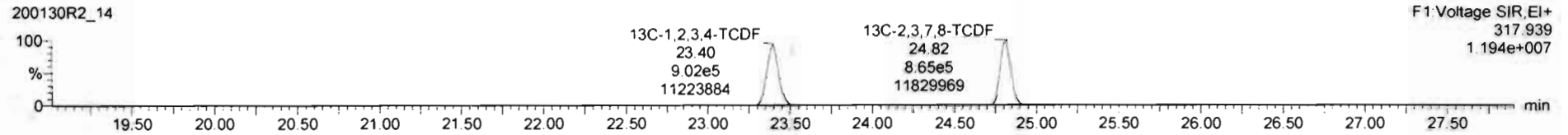
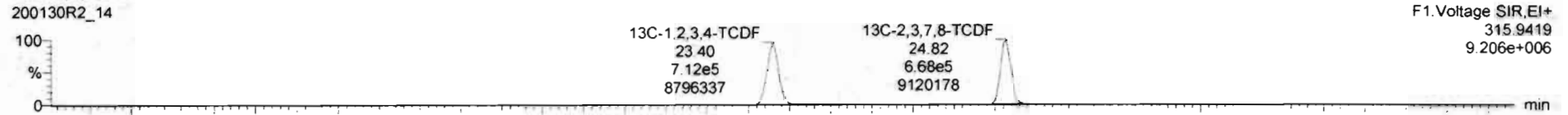
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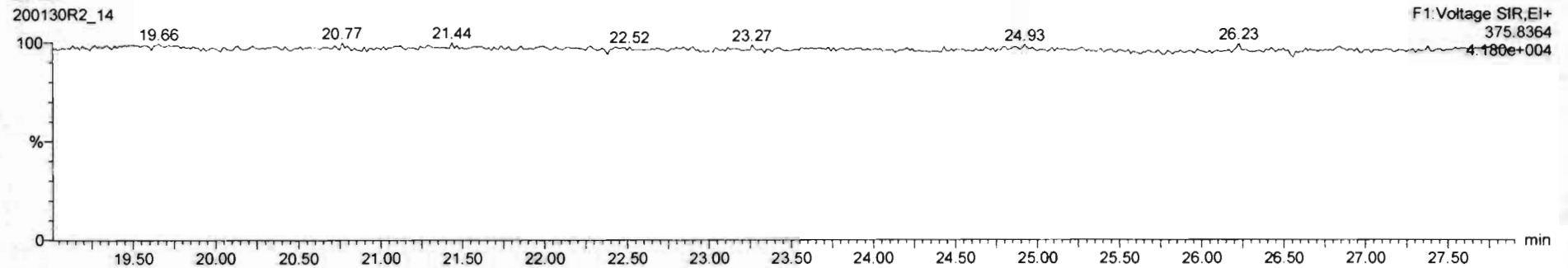
2,3,7,8-TCDF



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

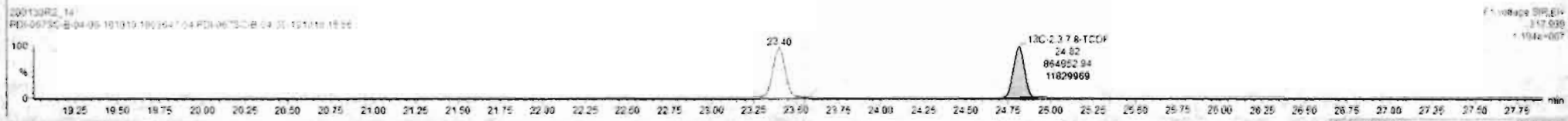
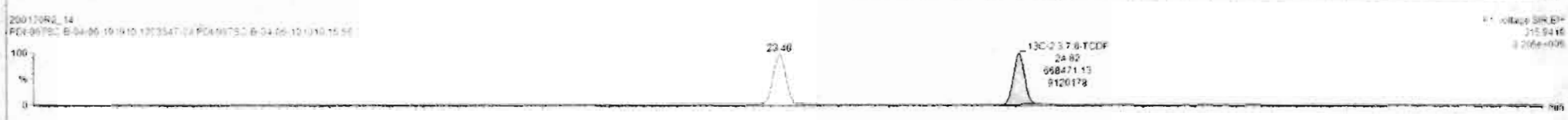
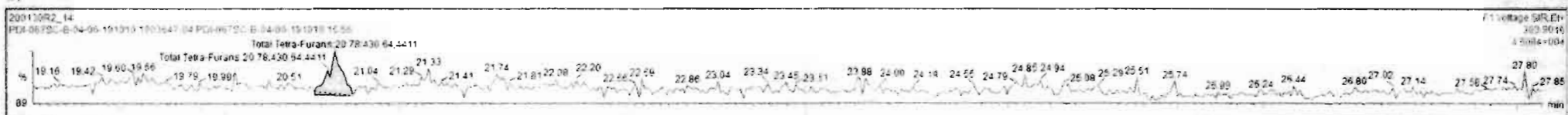


DPE1



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.5878	10.131			0.000		0.0365	0.150
44 1st Func. Penta-Furans				0.6261	10.121					0.0184	
45 Total Penta-Furans				0.6261	10.121					0.0220	
46 Total Hexa-Furans				0.7664	10.131					0.0319	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	20.78	4.306e2	3.872e2	1.11	YES	0.15010	0.00000



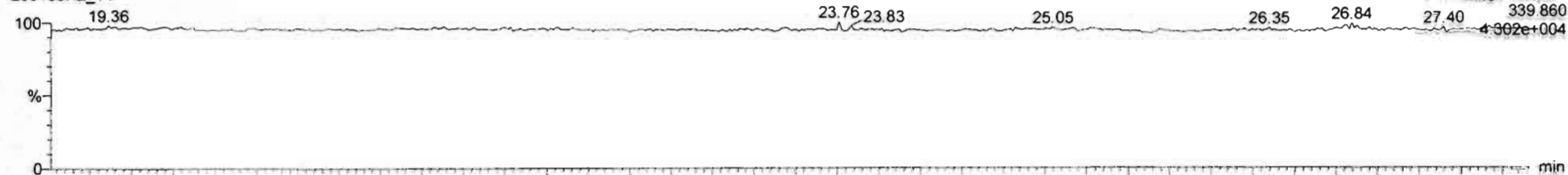
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Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

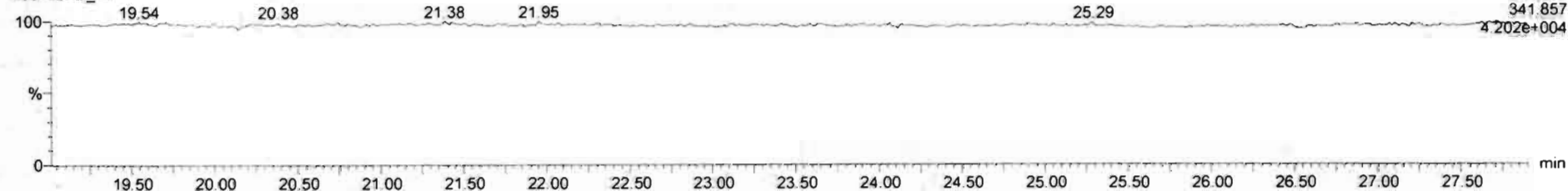
Name: 200130R2_14, Date: 31-Jan-2020, Time: 00:37:32, ID: 1903647-04 PDI-067SC-B-04-06-191010 15.56, Description: PDI-067SC-B-04-06-191010

1st Func. Penta-Furans

200130R2_14

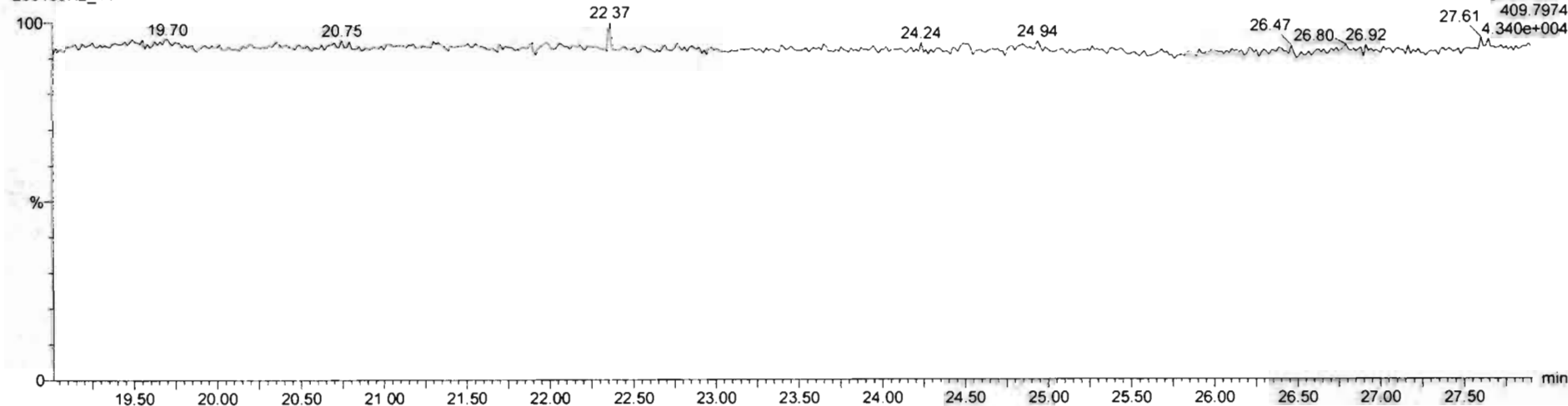


200130R2_14



DPE6

200130R2_14



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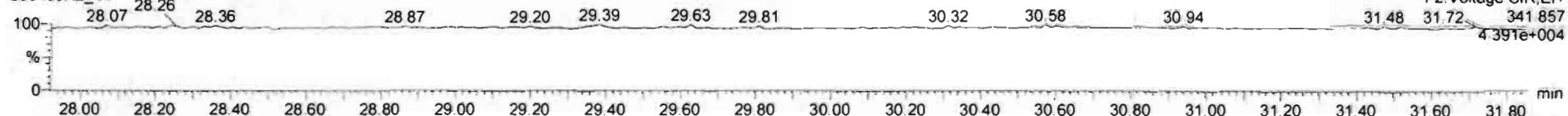
Name: 200130R2_14, Date: 31-Jan-2020, Time: 00:37:32, ID: 1903647-04 PDI-067SC-B-04-06-191010 15.56, Description: PDI-067SC-B-04-06-191010

1,2,3,7,8-PeCDF

200130R2_14

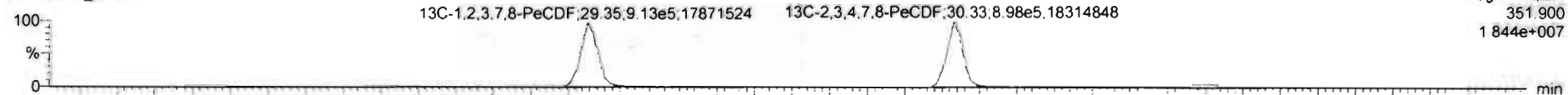


200130R2_14

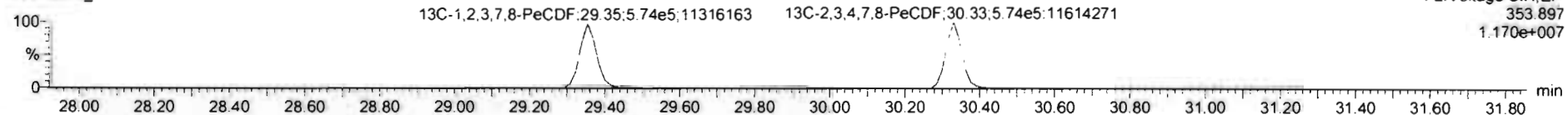


13C-1,2,3,7,8-PeCDF

200130R2_14

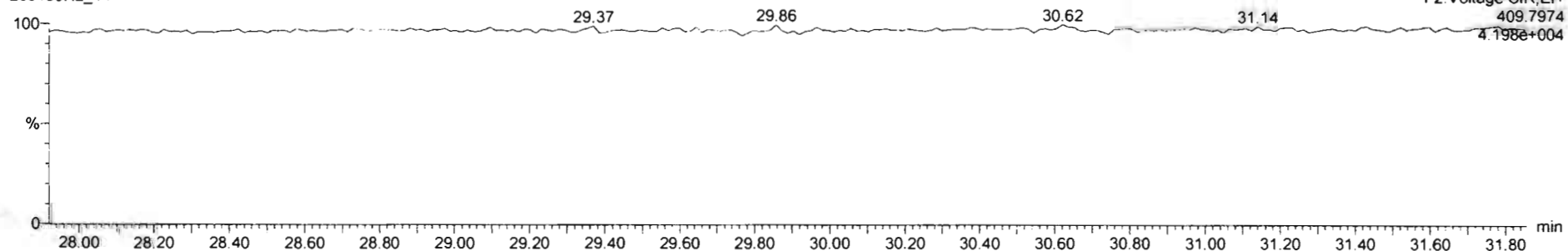


200130R2_14



DPE2

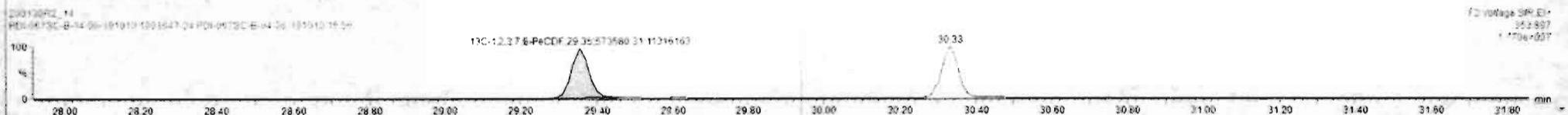
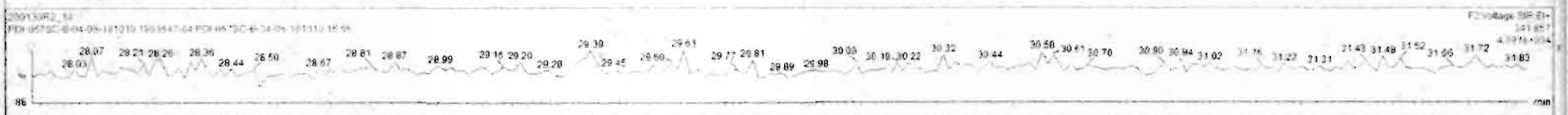
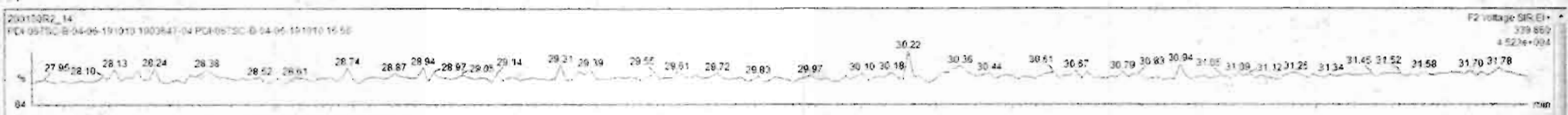
200130R2_14



200130R2_14 - 1903647-04 PDI-067SC-B-04-06-191010 15:58 - PDI-067SC-B-04-06-191010

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.5878	10.131			0.060		0.0355	0.150
44 1st Func. Penta-Furans				0.9261	10.131					0.0164	
45 Total Penta-Furans				0.8261	10.131					0.0220	
46 Total Hexa-Furans				0.1524	10.131					0.0119	

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

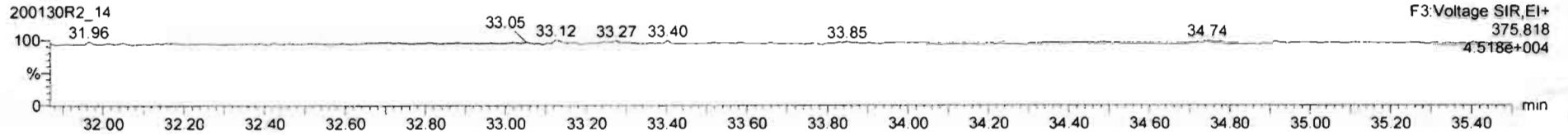
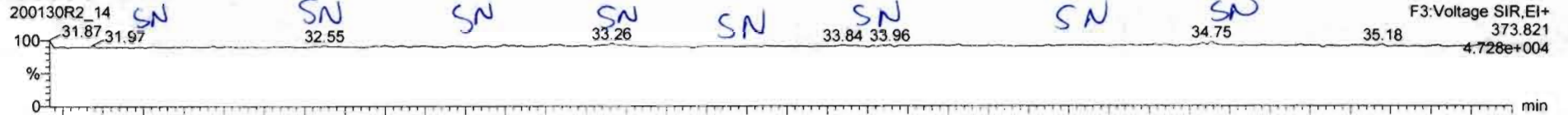


Dataset: Untitled

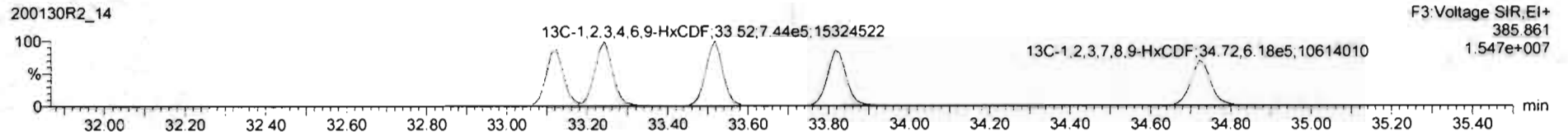
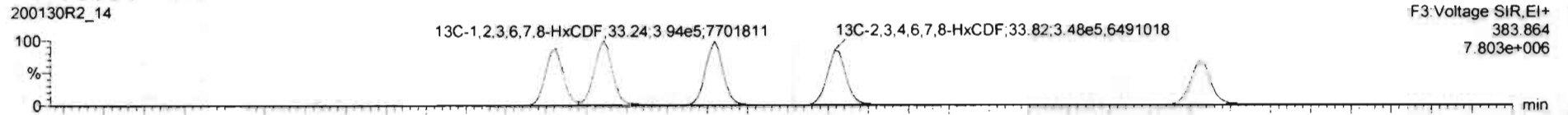
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Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_14, Date: 31-Jan-2020, Time: 00:37:32, ID: 1903647-04 PDI-067SC-B-04-06-191010 15.56, Description: PDI-067SC-B-04-06-191010

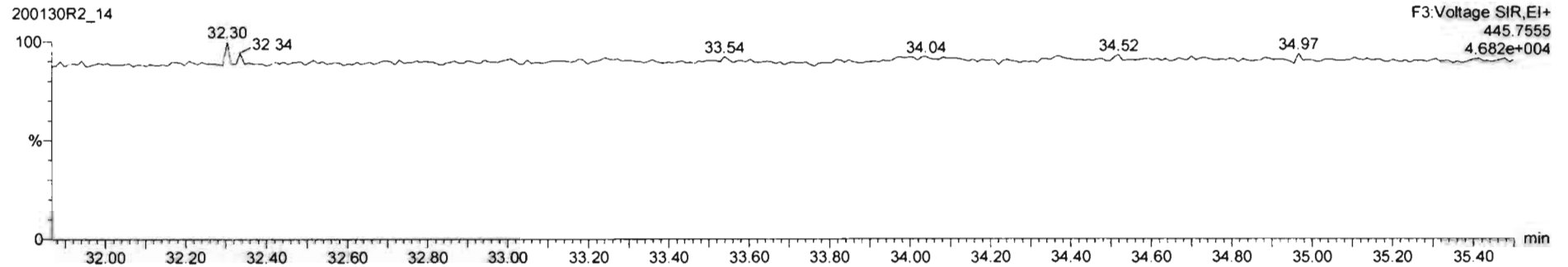
1,2,3,4,7,8-HxCDF

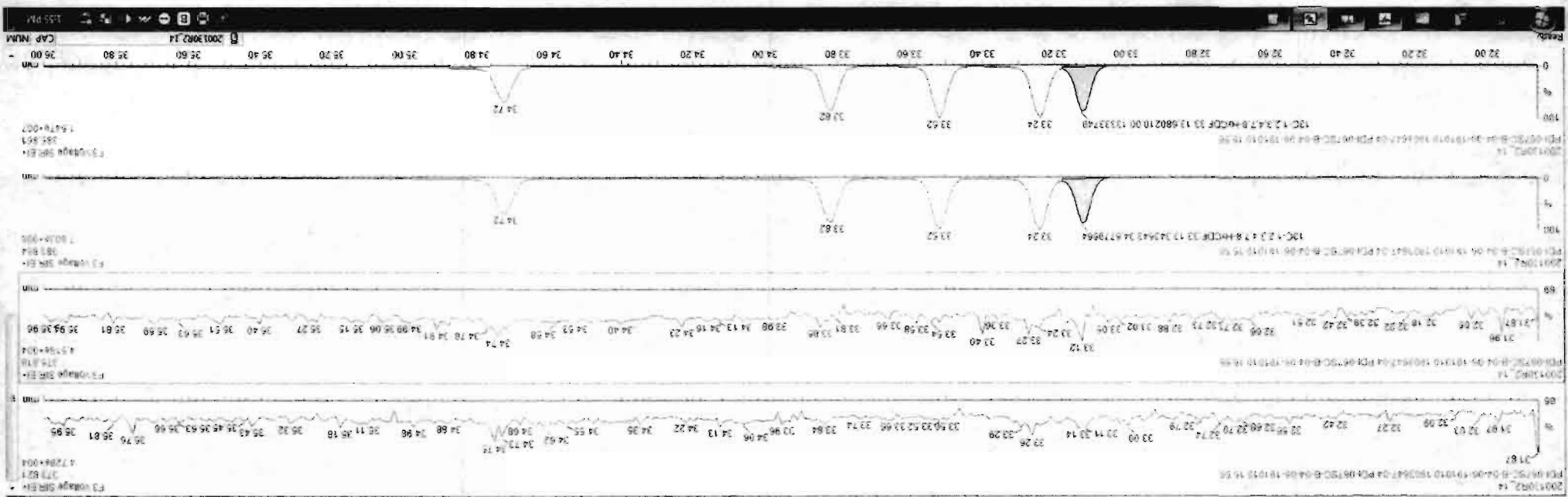


13C-1,2,3,4,7,8-HxCDF



DPE3





Name	RA	NY	RRF	wvol	RT	RRT	Conc	%Rec	OL	EMPC
Total Term Furans	0.5878	10.131					0.0062	0.150		
1st Func. Penta Furans	0.8261	12.121					0.0164			
Total Term Furans	0.7995	10.131					0.0220			

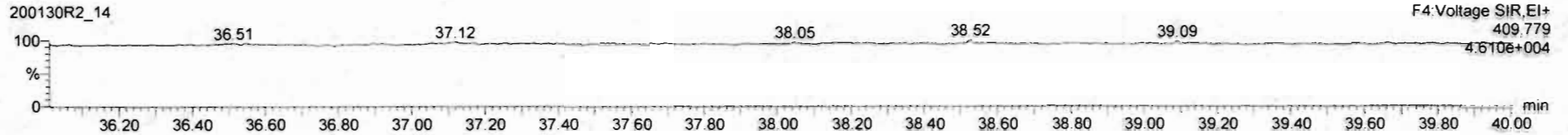
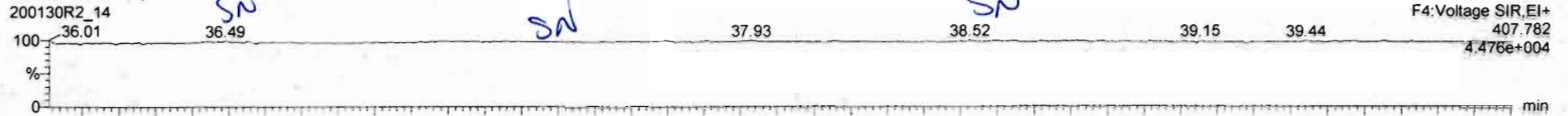
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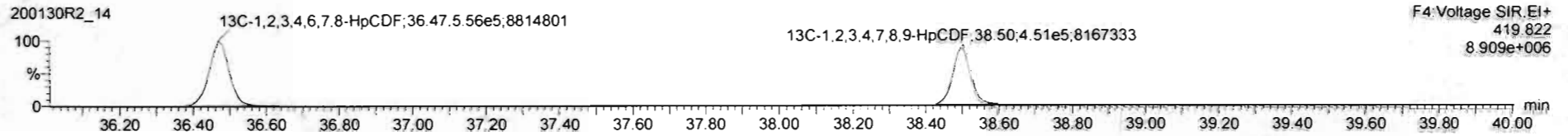
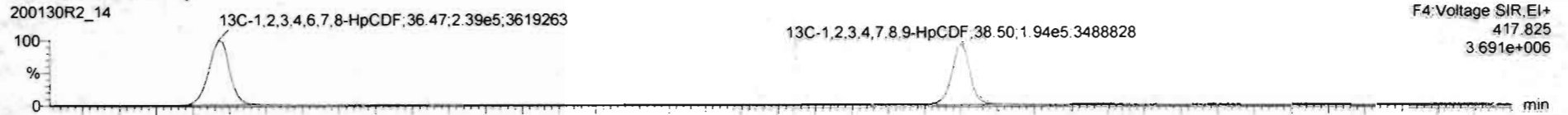
Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_14, Date: 31-Jan-2020, Time: 00:37:32, ID: 1903647-04 PDI-067SC-B-04-06-191010 15.56, Description: PDI-067SC-B-04-06-191010

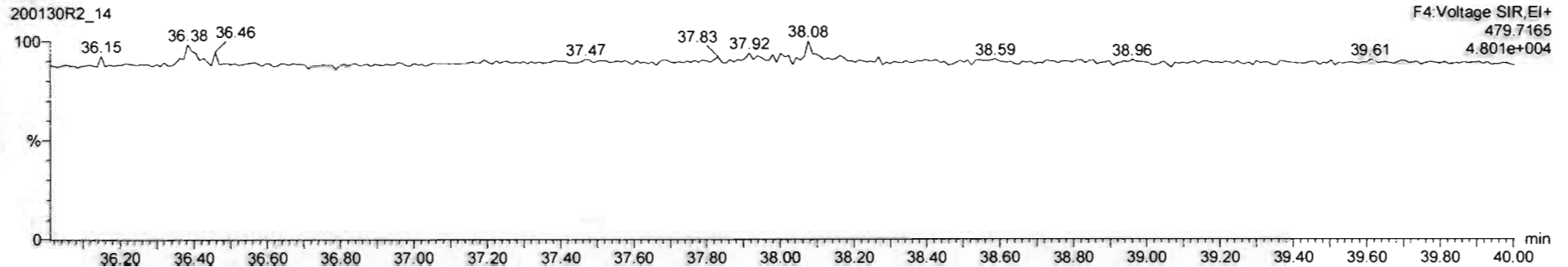
1,2,3,4,6,7,8-HpCDF



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

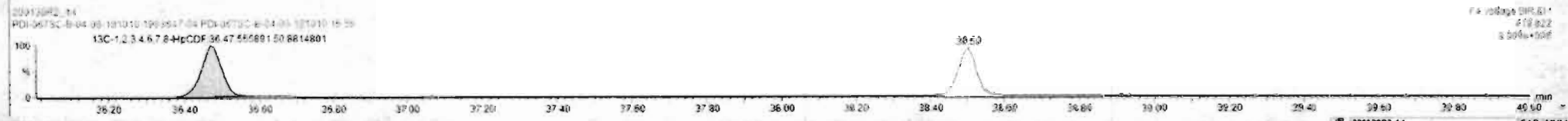
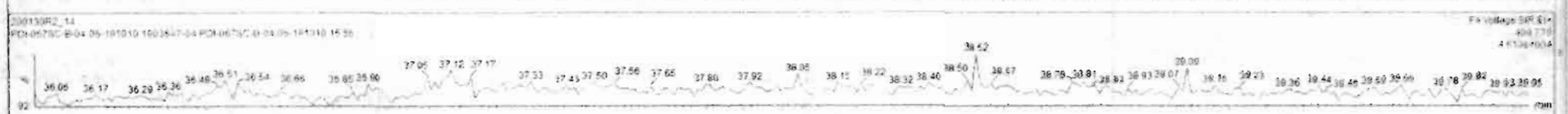
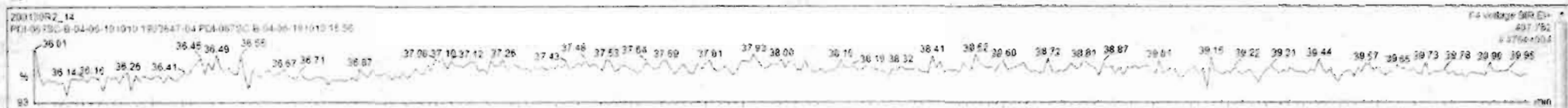


DPE4



Name	Resp	RA	nly	RRF	wt/mol	RT	RRT	Conc	%Rec	DL	EMPC
47 Total Hepta-Furans				0.7316	10.131					5.0478	
48 PFK1											
49 PFK2											
50 PFK3											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1							

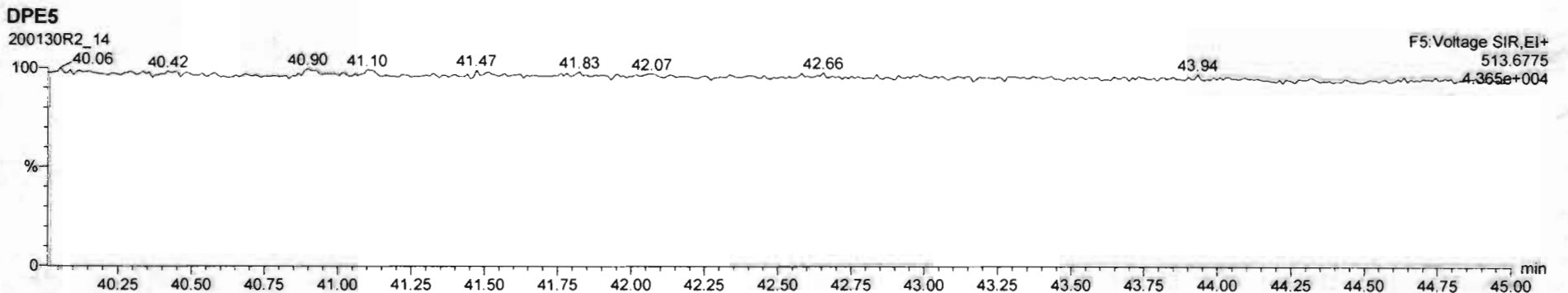
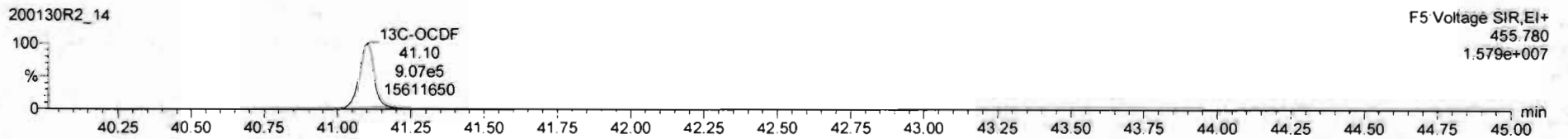
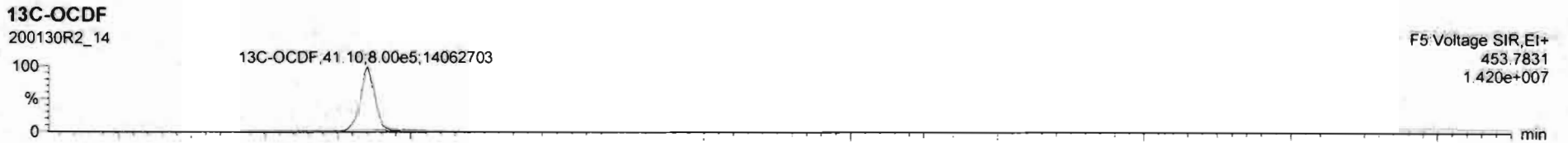
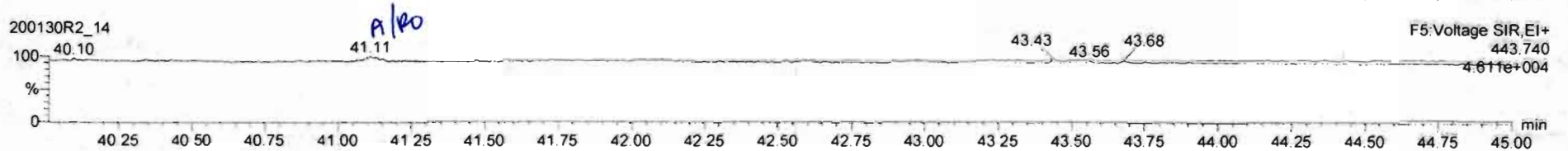
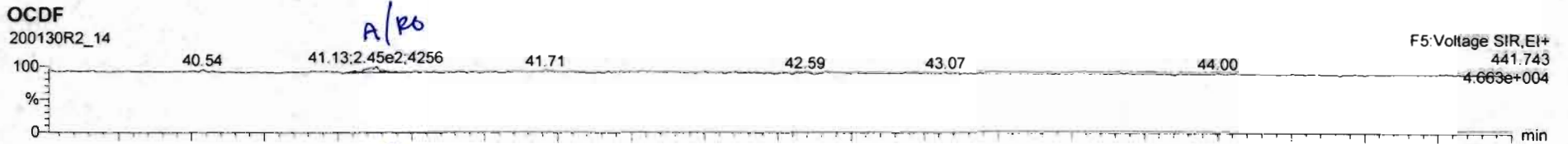


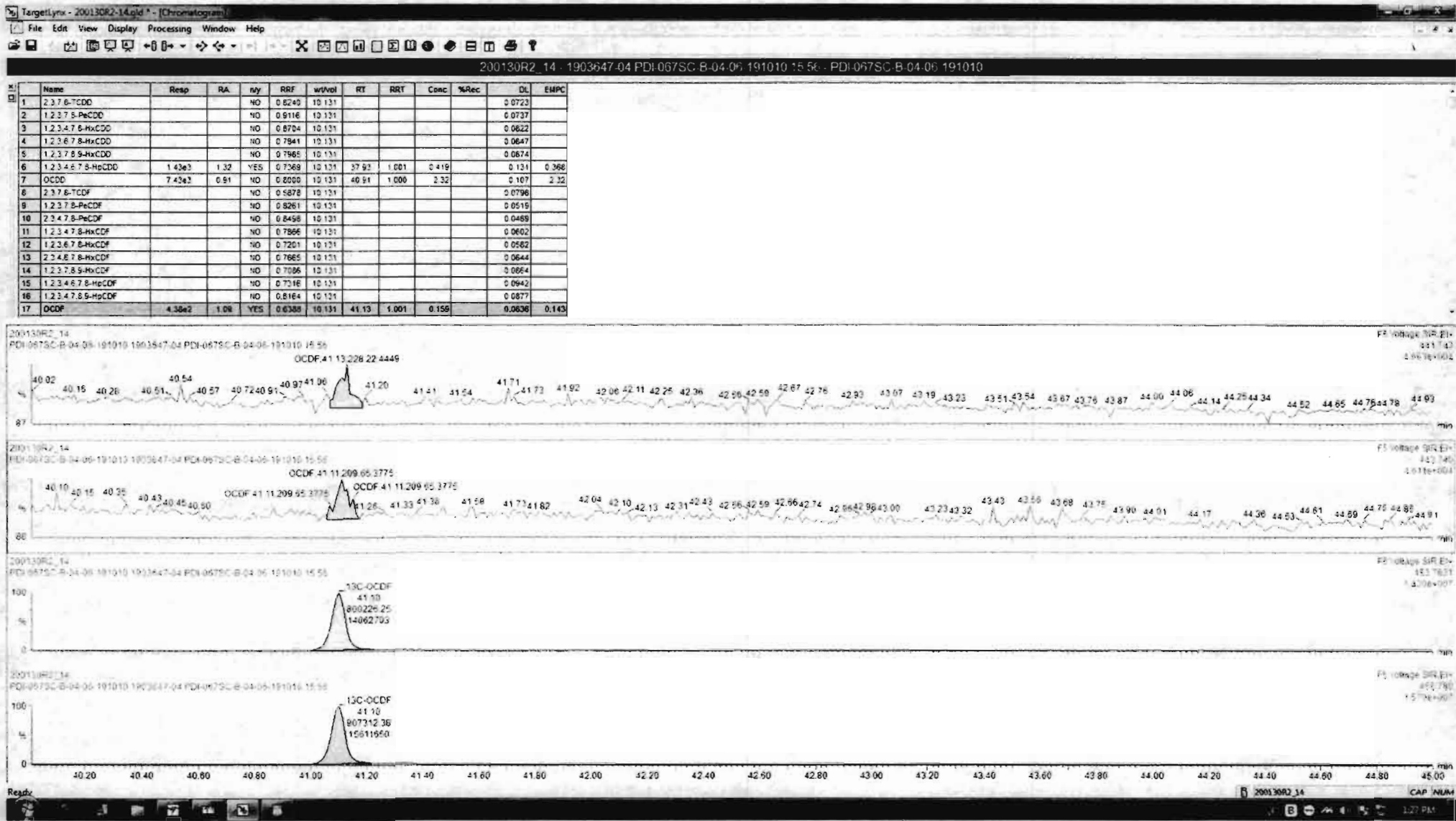
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Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_14, Date: 31-Jan-2020, Time: 00:37:32, ID: 1903647-04 PDI-067SC-B-04-06-191010 15.56, Description: PDI-067SC-B-04-06-191010



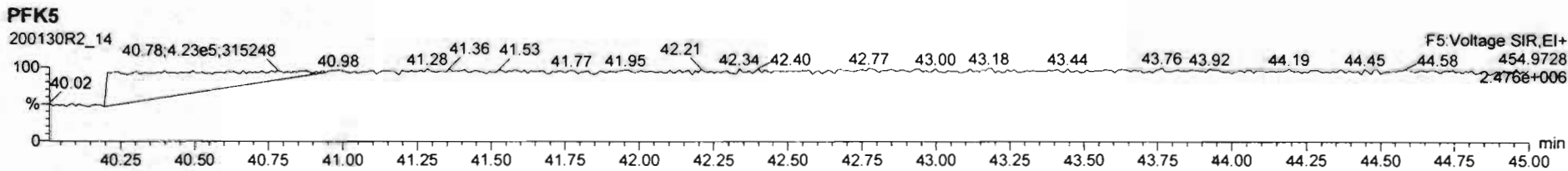
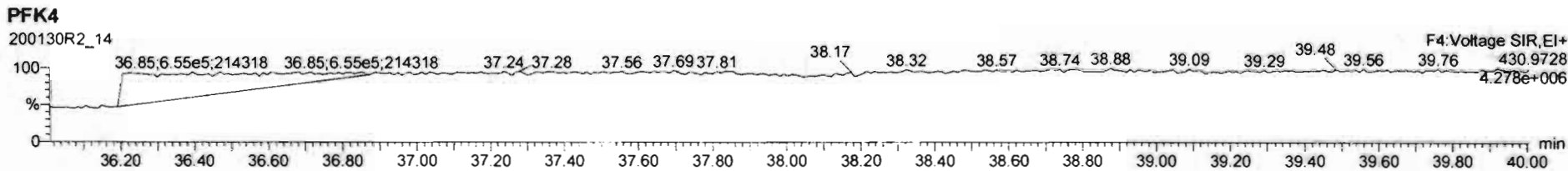
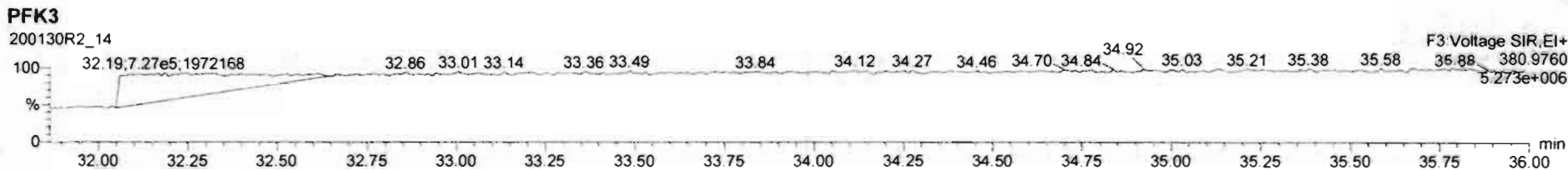
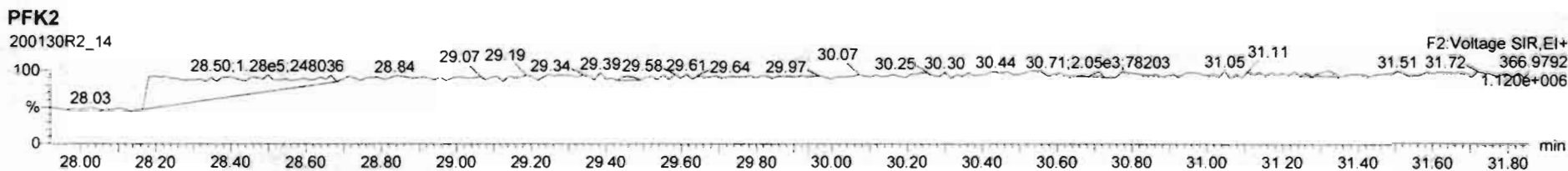
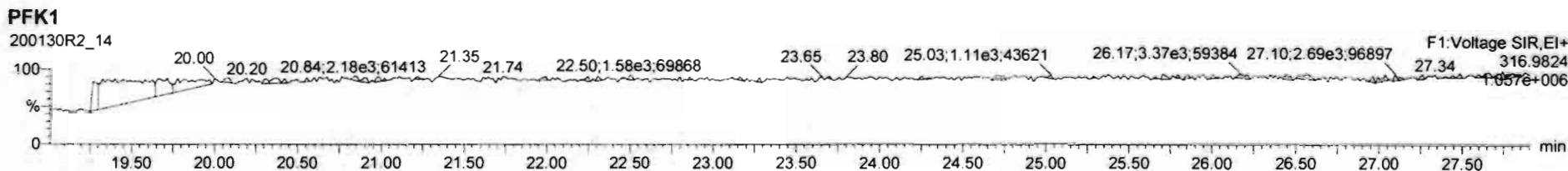


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Last Altered: Friday, January 31, 2020 08:36:52 Pacific Standard Time

Printed: Friday, January 31, 2020 08:37:05 Pacific Standard Time

Name: 200130R2_14, Date: 31-Jan-2020, Time: 00:37:32, ID: 1903647-04 PDI-067SC-B-04-06-191010 15.56, Description: PDI-067SC-B-04-06-191010



Dataset: U:\VG12.PRO\Results\200130R3\200130R3-4.qld

Last Altered: Tuesday, February 04, 2020 10:31:38 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:32:59 Pacific Standard Time

BL 02/04/2020

C702/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R3_4, Date: 31-Jan-2020, Time: 05:27:46, ID: B0A0016-DUP1 Duplicate 15.46, Description: Duplicate

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.824	10.066	25.71		1.00					0.0911	
2	2 1,2,3,7,8-PeCDD	379.982	0.689	NO	0.912	10.066	30.64	30.65	1.00	1.00	NO	0.09234		0.0777	0.09234
3	3 1,2,3,4,7,8-HxCDD				0.870	10.066	33.98		1.00		NO			0.133	
4	4 1,2,3,6,7,8-HxCDD	692.625	1.323	NO	0.784	10.066	34.07	34.10	1.00	1.00	NO	0.2012		0.144	0.2012
5	5 1,2,3,7,8,9-HxCDD	961.710	1.768	YES	0.798	10.066	34.38	34.36	1.00	1.00	NO	0.2789		0.145	0.2257
6	6 1,2,3,4,6,7,8-HpCDD	9537.265	1.056	NO	0.737	10.066	37.89	37.90	1.00	1.00	NO	3.279		0.182	3.279
7	7 OCDD	58123.474	0.872	NO	0.800	10.066	40.88	40.90	1.00	1.00	NO	23.95		0.173	23.95
8	8 2,3,7,8-TCDF	1046.975	0.932	YES	0.588	10.066	24.82	24.82	1.00	1.00	NO	0.2544		0.152	0.2331
9	9 1,2,3,7,8-PeCDF	772.058	2.053	YES	0.826	10.066	29.36	29.35	1.00	1.00	NO	0.1404		0.0746	0.1173
10	10 2,3,4,7,8-PeCDF				0.850	10.066	30.35		1.00		NO			0.0714	
11	11 1,2,3,4,7,8-HxCDF	841.425	1.173	NO	0.787	10.066	33.10	33.12	1.00	1.00	NO	0.2340		0.0782	0.2340
12	12 1,2,3,6,7,8-HxCDF	479.374	1.001	YES	0.720	10.066	33.23	33.24	1.00	1.00	NO	0.1277		0.0762	0.1154
13	13 2,3,4,6,7,8-HxCDF				0.766	10.066	33.83		1.00		NO			0.0895	
14	14 1,2,3,7,8,9-HxCDF				0.709	10.066	34.70		1.00		NO			0.116	
15	15 1,2,3,4,6,7,8-HpCDF	1146.966	0.973	NO	0.732	10.066	36.46	36.47	1.00	1.00	NO	0.4617		0.106	0.4617
16	16 1,2,3,4,7,8,9-HpCDF				0.816	10.066	38.47		1.00		NO			0.109	
17	17 OCDF	1227.437	0.884	NO	0.639	10.066	41.08	41.09	1.00	1.00	NO	0.5820		0.138	0.5820
18	18 13C-2,3,7,8-TCDD	1027655.9...	0.794	NO	1.12	10.066	25.68	25.67	1.03	1.03	NO	192.8	97.0	0.218	
19	19 13C-1,2,3,7,8-PeCDD	896889.031	0.643	NO	0.841	10.066	30.41	30.62	1.22	1.22	NO	223.2	112	0.280	
20	20 13C-1,2,3,4,7,8-HxCDD	774781.907	1.282	NO	0.938	10.066	33.97	33.97	1.01	1.01	NO	164.7	82.9	0.287	
21	21 13C-1,2,3,6,7,8-HxCDD	872563.188	1.272	NO	1.07	10.066	34.07	34.07	1.02	1.02	NO	163.3	82.2	0.253	
22	22 13C-1,2,3,7,8,9-HxCDD	857954.750	1.223	NO	1.03	10.066	34.37	34.35	1.03	1.03	NO	166.0	83.6	0.261	
23	23 13C-1,2,3,4,6,7,8-HpCDD	784146.250	1.036	NO	0.710	10.066	37.92	37.87	1.13	1.13	NO	220.2	111	0.584	
24	24 13C-OCDD	1205751.8...	0.875	NO	0.601	10.066	40.80	40.88	1.22	1.22	NO	400.1	101	0.388	
25	25 13C-2,3,7,8-TCDF	1391102.2...	0.786	NO	1.04	10.066	24.86	24.79	0.99	0.99	NO	178.8	90.0	0.314	
26	26 13C-1,2,3,7,8-PeCDF	1322498.1...	1.569	NO	0.917	10.066	29.19	29.34	1.17	1.17	NO	192.2	96.7	0.549	
27	27 13C-2,3,4,7,8-PeCDF	1287235.5...	1.578	NO	0.903	10.066	30.14	30.32	1.20	1.21	NO	190.0	95.6	0.558	
28	28 13C-1,2,3,4,7,8-HxCDF	908258.313	0.506	NO	0.861	10.066	33.10	33.10	0.99	0.99	NO	210.3	106	0.500	
29	29 13C-1,2,3,6,7,8-HxCDF	1035754.7...	0.500	NO	1.05	10.066	33.20	33.22	0.99	0.99	NO	197.3	99.3	0.411	
30	30 13C-2,3,4,6,7,8-HxCDF	874857.719	0.505	NO	0.946	10.066	33.80	33.80	1.01	1.01	NO	184.5	92.8	0.455	

Dataset: U:\VG12.PRO\Results\200130R3\200130R3-4.qld

Last Altered: Tuesday, February 04, 2020 10:31:38 Pacific Standard Time
Printed: Tuesday, February 04, 2020 10:32:59 Pacific Standard Time

Name: 200130R3_4, Date: 31-Jan-2020, Time: 05:27:46, ID: B0A0016-DUP1 Duplicate 15.46, Description: Duplicate

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	782295.000	0.526	NO	0.816	10.066	34.70	34.70	1.04	1.04	NO	191.3	96.3	0.528	
32	32 13C-1,2,3,4,6,7,8-HpCDF	674667.000	0.433	NO	0.589	10.066	36.44	36.45	1.09	1.09	NO	228.3	115	0.789	
33	33 13C-1,2,3,4,7,8,9-HpCDF	531415.875	0.434	NO	0.448	10.066	38.45	38.47	1.15	1.15	NO	236.5	119	1.04	
34	34 13C-OCDF	1311936.8...	0.860	NO	0.586	10.066	41.03	41.08	1.23	1.23	NO	446.6	112	0.519	
35	35 37Cl-2,3,7,8-TCDD	406418.125			1.09	10.066	25.71	25.69	1.03	1.03	NO	78.37	98.6	0.0567	
36	36 13C-1,2,3,4-TCDD	949139.719	0.799	NO	1.00	10.066	25.08	25.03	1.00	1.00	NO	198.7	100	0.243	
37	37 13C-1,2,3,4-TCDF	1491504.1...	0.783	NO	1.00	10.066	23.42	23.37	1.00	1.00	NO	198.7	100	0.326	
38	38 13C-1,2,3,4,6,9-HxCDF	996510.250	0.507	NO	1.00	10.066	33.52	33.50	1.00	1.00	NO	198.7	100	0.431	
39	39 Total Tetra-Dioxins				0.824	10.066	24.62		0.00		NO	0.9684		0.0911	1.349
40	40 Total Penta-Dioxins				0.912	10.066	29.96		0.00		NO	0.3054		0.0777	1.447
41	41 Total Hexa-Dioxins				0.784	10.066	33.63		0.00		NO	3.694		0.147	3.919
42	42 Total Hepta-Dioxins				0.737	10.066	37.64		0.00		NO	7.402		0.182	7.402
43	43 Total Tetra-Furans				0.588	10.066	23.61		0.00		NO	1.802		0.152	2.392
44	44 1st Func. Penta-Furans				0.826	10.066	27.09		0.00		NO			0.0168	
45	45 Total Penta-Furans				0.826	10.066	29.27		0.00		NO	0.3280		0.0740	0.9390
46	46 Total Hexa-Furans				0.766	10.066	33.56		0.00		NO	0.2340		0.0859	0.7042
47	47 Total Hepta-Furans				0.732	10.066	37.83		0.00		NO	0.4617		0.113	0.6597

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200130R3\200130R3-4.qld

Last Altered: Tuesday, February 04, 2020 10:31:38 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:19 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R3_4, Date: 31-Jan-2020, Time: 05:27:46, ID: B0A0016-DUP1 Duplicate 15.46, Description: Duplicate

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	1.76e3	1.03e6	0.840	NO	24.62	23.52	0.4134	0.4134
2	39 Total Tetra-Dioxins	0.00e0	1.03e6	0.925	YES	24.62	22.14	0.0000	0.3801
3	39 Total Tetra-Dioxins	2.37e3	1.03e6	0.744	NO	24.62	21.72	0.5550	0.5550

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	8.77e2	8.97e5	0.586	NO	29.96	28.90	0.2131	0.2131
2	40 Total Penta-Dioxins	0.00e0	8.97e5	0.506	YES	29.96	28.41	0.0000	0.3763
3	40 Total Penta-Dioxins	0.00e0	8.97e5	0.519	YES	29.96	29.89	0.0000	0.1687
4	40 Total Penta-Dioxins	0.00e0	8.97e5	0.485	YES	29.96	29.64	0.0000	0.1770
5	40 Total Penta-Dioxins	0.00e0	8.97e5	0.520	YES	29.96	29.39	0.0000	0.2698
6	40 Total Penta-Dioxins	0.00e0	8.97e5	0.461	YES	29.96	29.58	0.0000	0.07414
7	2 1,2,3,7,8-PeCDD	3.80e2	8.97e5	0.689	NO	30.64	30.65	0.09234	0.09234
8	40 Total Penta-Dioxins	0.00e0	8.97e5	0.587	NO	29.96	30.21	0.0000	0.07568

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	3.45e3	0.00e0	1.222	NO	33.63	33.04	1.048	1.048
2	41 Total Hexa-Dioxins	5.37e3	0.00e0	1.176	NO	33.63	32.49	1.629	1.629
3	5 1,2,3,7,8,9-HxCDD	9.62e2	8.58e5	1.768	YES	34.38	34.36	0.0000	0.2257
4	4 1,2,3,6,7,8-HxCDD	6.93e2	8.73e5	1.323	NO	34.07	34.10	0.2012	0.2012
5	41 Total Hexa-Dioxins	2.69e3	0.00e0	1.213	NO	33.63	33.32	0.8148	0.8148

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	9.54e3	7.84e5	1.056	NO	37.89	37.90	3.279	3.279
2	42 Total Hepta-Dioxins	1.20e4	7.84e5	0.968	NO	37.64	36.85	4.123	4.123

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200130R3\200130R3-4.qld

Last Altered: Tuesday, February 04, 2020 10:31:38 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:19 Pacific Standard Time

Name: 200130R3_4, Date: 31-Jan-2020, Time: 05:27:46, ID: B0A0016-DUP1 Duplicate 15.46, Description: Duplicate

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	4.11e3	1.39e6	0.843	NO	23.61	20.74	0.9987	0.9987
2	43 Total Tetra-Furans	7.63e2	1.39e6	0.847	NO	23.61	19.61	0.1853	0.1853
3	43 Total Tetra-Furans	0.00e0	1.39e6	1.068	YES	23.61	25.20	0.0000	0.2115
4	8 2,3,7,8-TCDF	1.05e3	1.39e6	0.932	YES	24.82	24.82	0.0000	0.2331
5	43 Total Tetra-Furans	0.00e0	1.39e6	1.050	YES	23.61	24.19	0.0000	0.1455
6	43 Total Tetra-Furans	1.43e3	1.39e6	0.846	NO	23.61	23.89	0.3469	0.3469
7	43 Total Tetra-Furans	1.12e3	1.39e6	0.821	NO	23.61	23.40	0.2713	0.2713

Penta-Furans function 1

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

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	8.48e2	0.00e0	1.454	NO	29.27	29.61	0.1564	0.1564
2	9 1,2,3,7,8-PeCDF	7.72e2	1.32e6	2.053	YES	29.36	29.35	0.0000	0.1173
3	45 Total Penta-Furans	0.00e0	0.00e0	1.282	YES	29.27	28.38	0.0000	0.2047
4	45 Total Penta-Furans	9.31e2	0.00e0	1.697	NO	29.27	28.20	0.1716	0.1716
5	45 Total Penta-Furans	0.00e0	0.00e0	0.495	YES	29.27	30.21	0.0000	0.04441
6	45 Total Penta-Furans	0.00e0	0.00e0	1.235	YES	29.27	28.97	0.0000	0.1795
7	45 Total Penta-Furans	0.00e0	0.00e0	1.143	YES	29.27	29.39	0.0000	0.06519

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	12 1,2,3,6,7,8-HxCDF	4.79e2	1.04e6	1.001	YES	33.23	33.24	0.0000	0.1154
2	11 1,2,3,4,7,8-HxCDF	8.41e2	9.08e5	1.173	NO	33.10	33.12	0.2340	0.2340
3	46 Total Hexa-Furans	0.00e0	0.00e0	0.939	YES	33.56	32.10	0.0000	0.2248
4	46 Total Hexa-Furans	0.00e0	0.00e0	0.940	YES	33.56	33.02	0.0000	0.1301

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200130R3\200130R3-4.qld

Last Altered: Tuesday, February 04, 2020 10:31:38 Pacific Standard Time

Printed: Tuesday, February 04, 2020 10:33:19 Pacific Standard Time

Name: 200130R3_4, Date: 31-Jan-2020, Time: 05:27:46, ID: B0A0016-DUP1 Duplicate 15.46, Description: Duplicate

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	1.15e3	6.75e5	0.973	NO	36.48	36.47	0.4617	0.4617
2	47 Total Hepta-Furans	0.00e0	0.00e0	0.740	YES	37.83	37.08	0.0000	0.1980

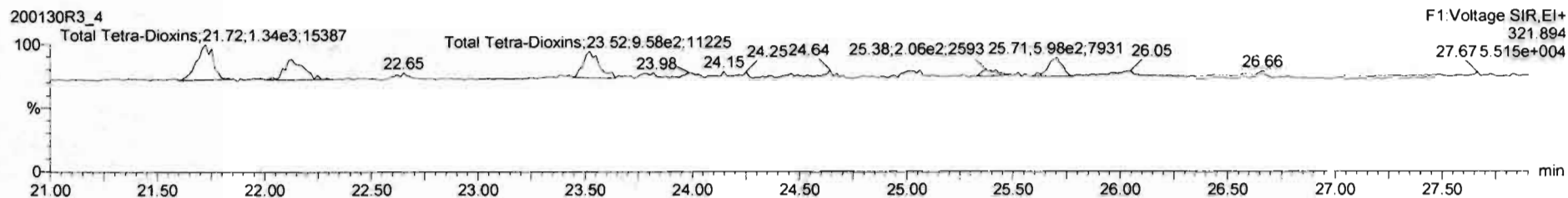
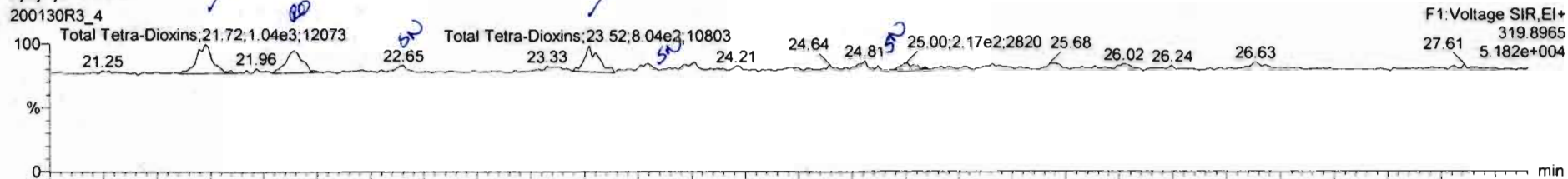
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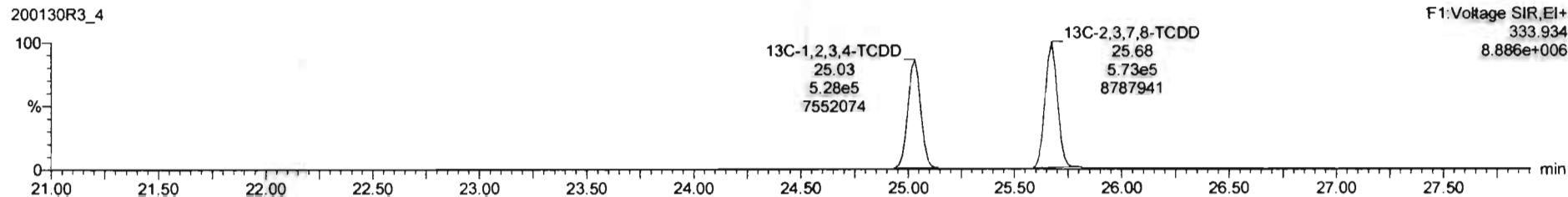
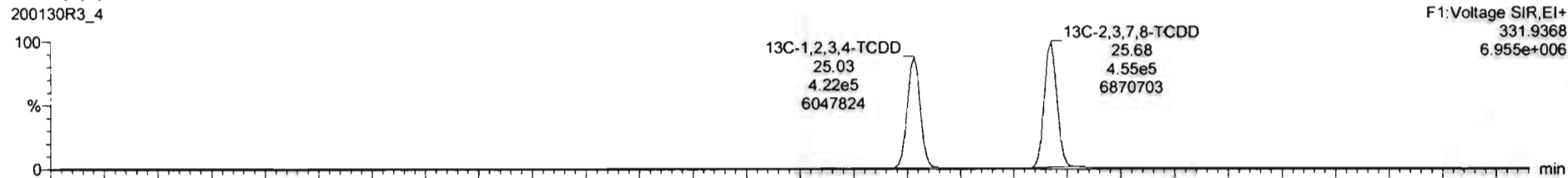
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Name: 200130R3_4, Date: 31-Jan-2020, Time: 05:27:46, ID: B0A0016-DUP1 Duplicate 15.46, Description: Duplicate

2,3,7,8-TCDD



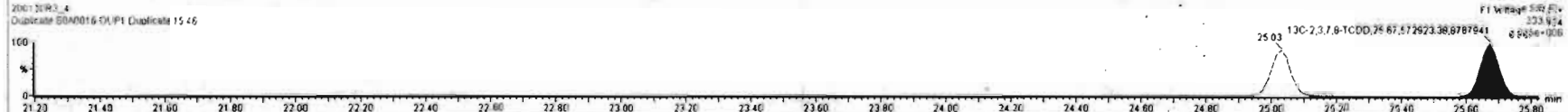
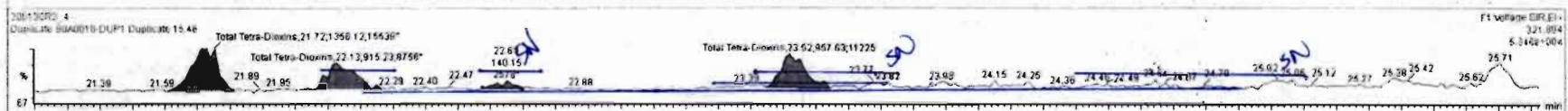
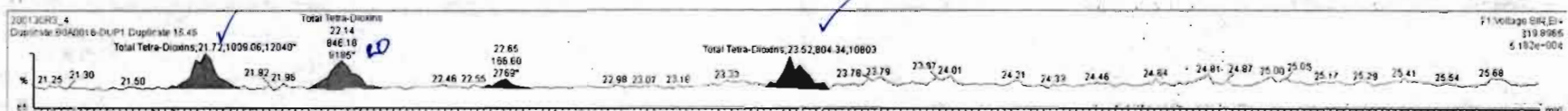
13C-2,3,7,8-TCDD



20013093_4 - ENA-0016-DUP1 Duplicate 15.46 - Duplicate

#	Name	Resp	RA	nV	RRT	wt/wt	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.066	24.62		0.000	NO	0.9716		0.0911	1.365	
40	Total Penta-Dioxins				0.9115	10.066	29.96		0.000	NO	0.3071		0.0777	1.193	
41	Total Hexa-Dioxins				0.7841	10.066	33.63		0.000	NO	3.813		0.147	4.078	
42	Total Hepta-Dioxins				0.7369	10.066	37.64		0.000	NO	7.390		0.182	7.390	
43	Total Tetra-Furans				0.5878	10.066	23.91		0.000	NO	1.857		0.152	2.715	
44	1st Func. Penta-Furans				0.8261	10.066	27.06		0.000	NO			0.0466		
45	Total Penta-Furans				0.8261	10.066	28.27		0.000	NO	0.9900		0.0740	0.6794	
46	Total Hexa-Furans				0.7665	10.066	33.56		0.000	NO	0.2314		0.0869	0.7170	
47	Total Hepta-Furans				0.7716	10.066	37.81		0.000	NO	0.4601		0.113	0.4601	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nV	EMPC	Conc.
1	Total Tetra-Dioxins	24.62	21.72	1.040e3	1.339e3	0.770	0.78	NO	0.55818	0.55818
2	Total Tetra-Dioxins	24.62	22.14	0.203e2	9.229e2	0.770	0.86	YES	0.36326	0.00000
3	Total Tetra-Dioxins	24.62	23.52	0.043e2	9.576e2	0.770	0.84	NO	0.41344	0.41344



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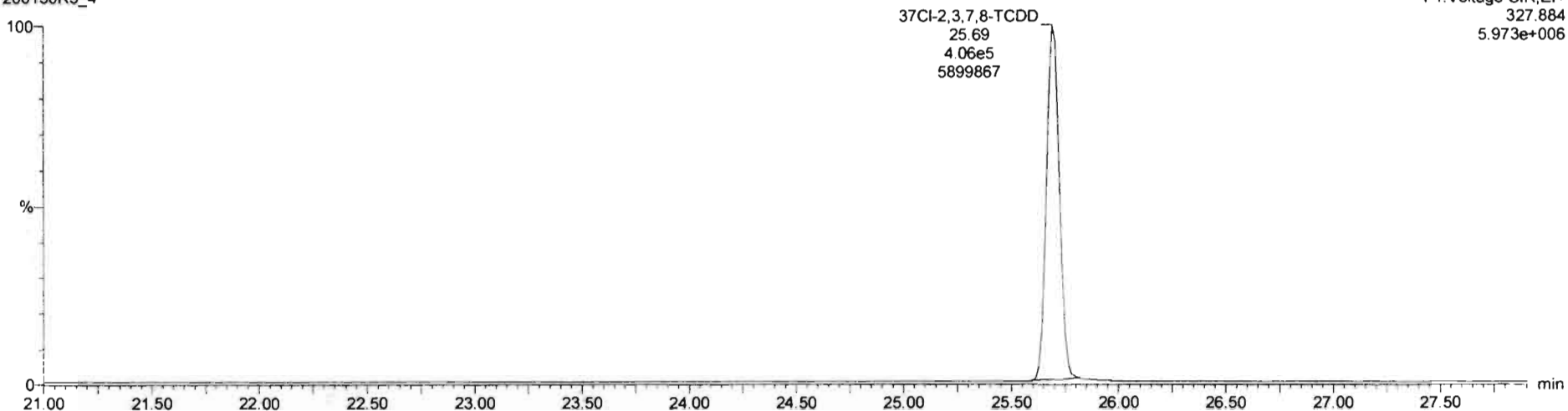
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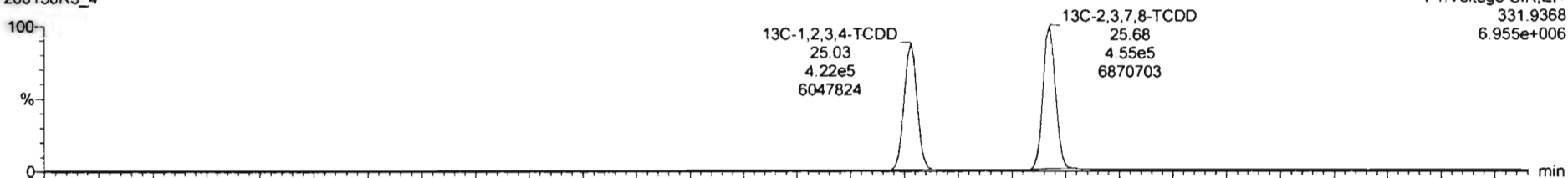
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200130R3_4

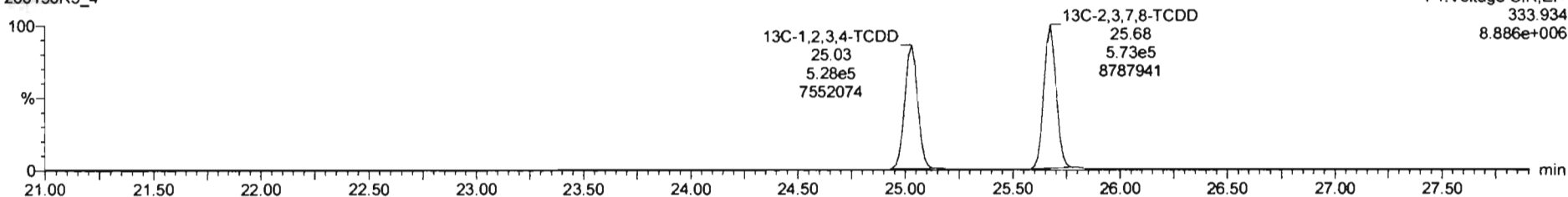


13C-1,2,3,4-TCDD

200130R3_4



200130R3_4



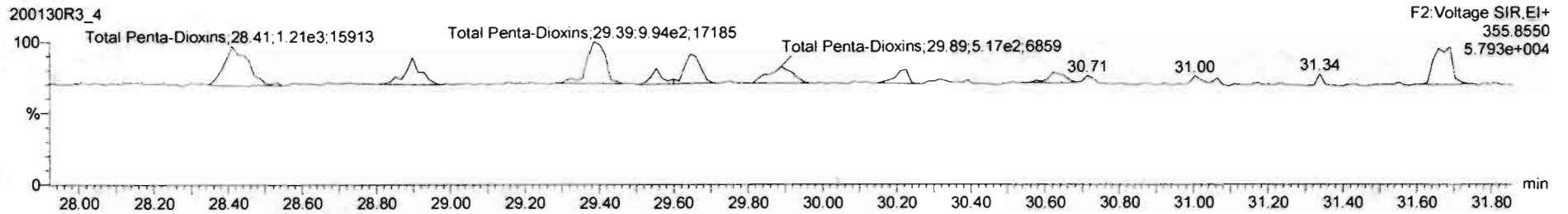
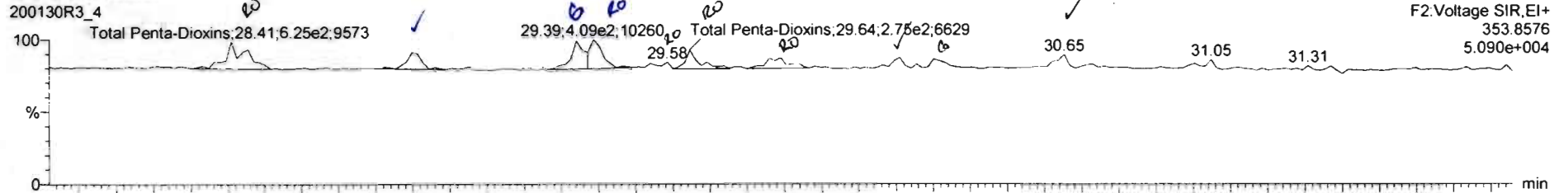
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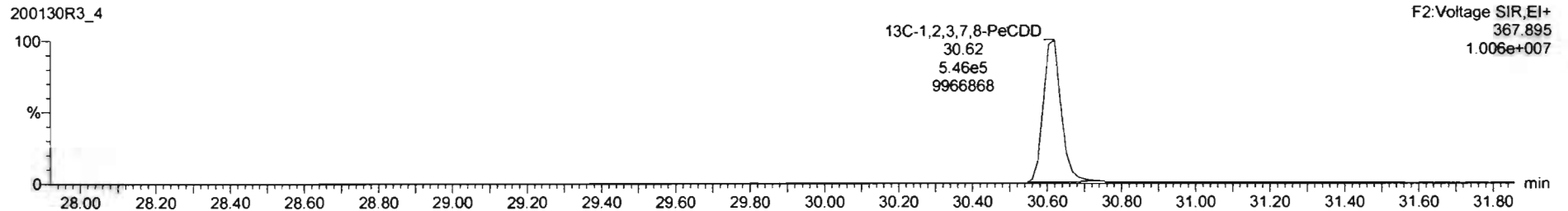
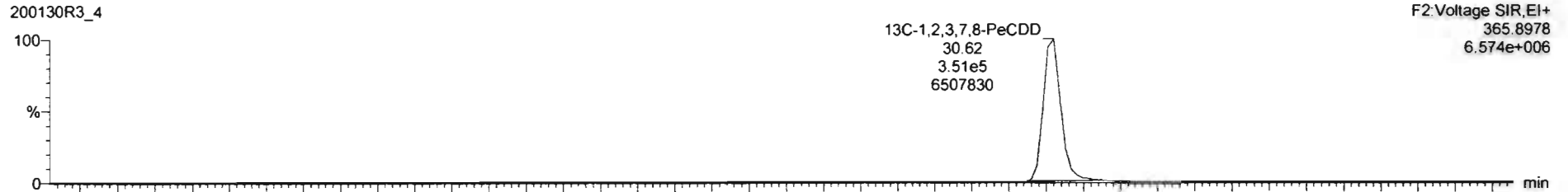
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1,2,3,7,8-PeCDD



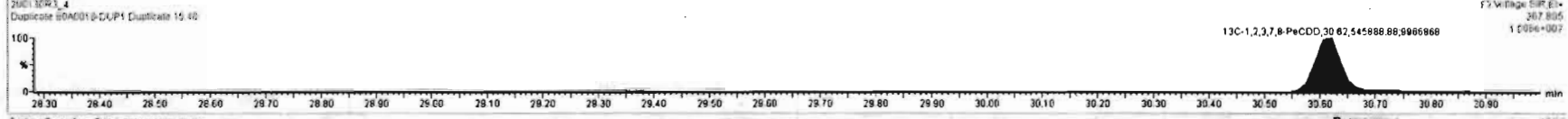
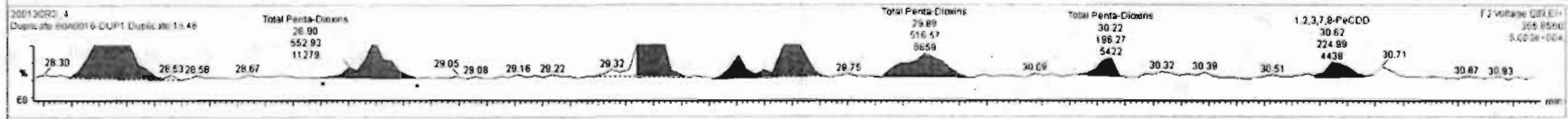
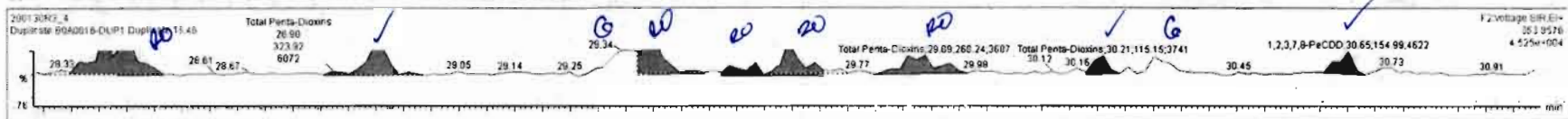
13C-1,2,3,7,8-PeCDD



200130R3_4 - E:\A\116-DUP1 Duplicate 15:46 - Dup1.cdf

#	Name	Resp	RA	nly	RRF	wtAve	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.066	24.52		0.000		NO	0.9564		0.0911	1.349
40	Total Penta-Dioxins				0.8116	10.080	29.96		0.000		NO	0.3064		0.0777	1.447
41	Total Hexa-Dioxins				0.7941	10.066	33.63		0.000		NO	3.813		0.147	4.078
42	Total Hepta-Dioxins				0.7369	10.066	37.64		0.000		NO	7.300		0.102	7.300
43	Total Tetra-Furans				0.5978	10.096	23.61		0.000		NO	1.657		0.152	2.715
44	1st Func. Penta-Furans				0.8261	10.096	27.09		0.000		NO			0.0168	
45	Total Penta-Furans				0.8261	10.066	29.27		0.000		NO	0.5820		0.0740	0.6794
46	Total Hexa-Furans				0.7665	10.066	33.56		0.000		NO	0.2914		0.0655	0.7170
47	Total Hepta-Furans				0.7312	10.066	37.45		0.000		NO	0.4603		0.1151	0.4603

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc
1	40 Total Penta-Dioxins	29.96	28.41	5.965e2	1.183e3	0.630	0.51	YES	0.37627	0.00000
2	40 Total Penta-Dioxins	29.96	28.90	3.238e2	5.529e2	0.630	0.59	NO	0.21309	0.21308
3	40 Total Penta-Dioxins	29.96	29.39	4.291e2	8.201e2	0.630	0.52	YES	0.26960	0.00000
4	40 Total Penta-Dioxins	29.96	29.58	1.179e2	2.558e2	0.630	0.46	YES	0.374140	0.00000
5	40 Total Penta-Dioxins	29.96	29.64	2.815e2	5.802e2	0.630	0.49	YES	0.17699	0.00000
6	40 Total Penta-Dioxins	29.96	29.89	2.682e2	5.186e2	0.630	0.52	YES	0.16865	0.00000
7	40 Total Penta-Dioxins	29.96	30.21	1.151e2	1.963e2	0.630	0.59	NO	0.075677	0.00000
8	2 1,2,3,7,8-PeCDD	30.54	30.65	1.550e2	2.250e2	0.630	0.88	NO	0.092339	0.092338

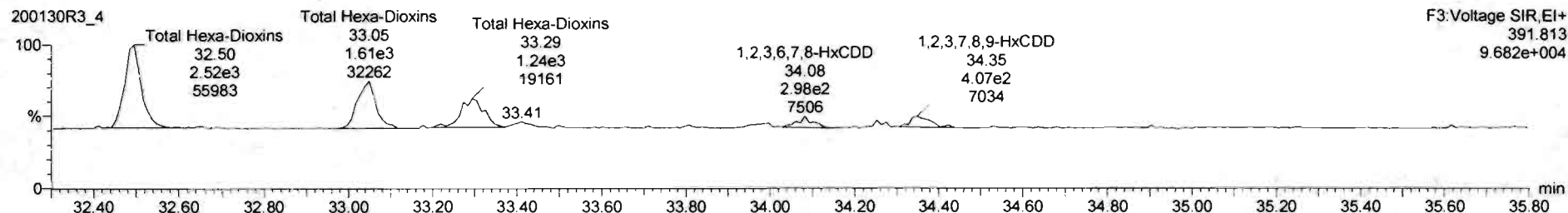
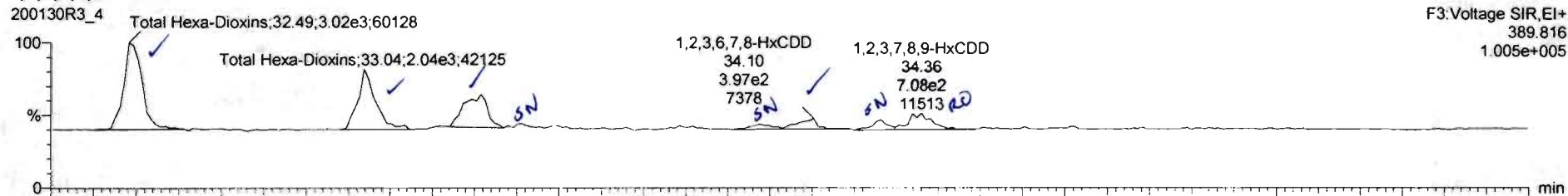


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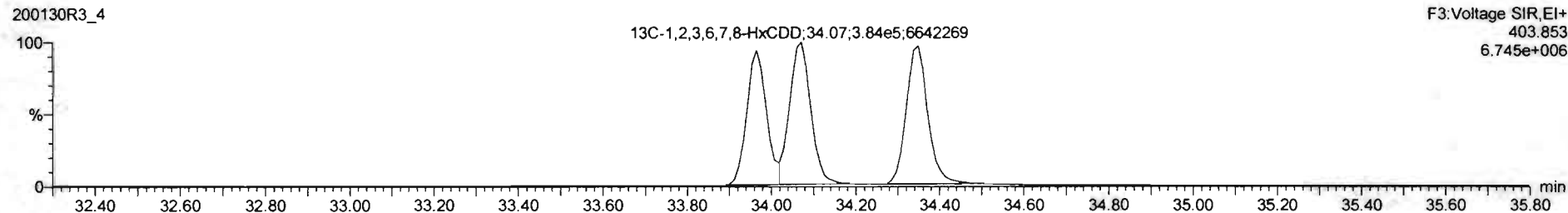
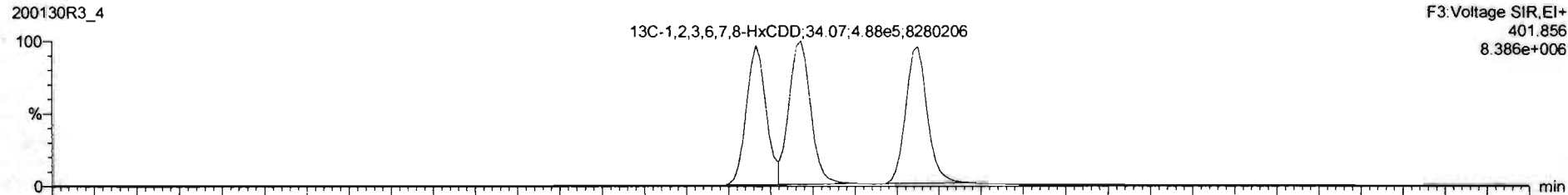
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1,2,3,4,7,8-HxCDD

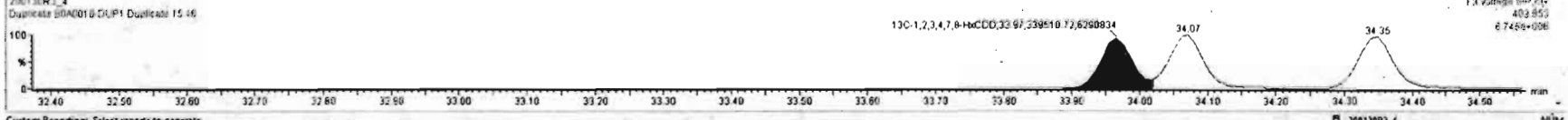
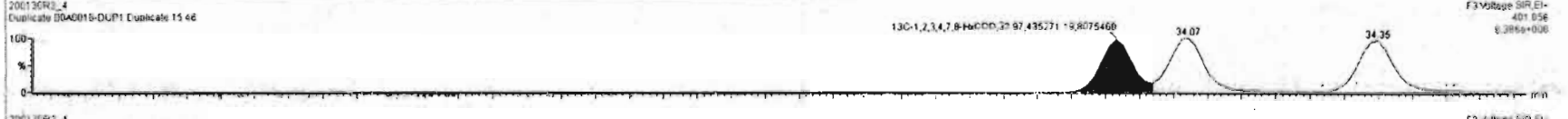
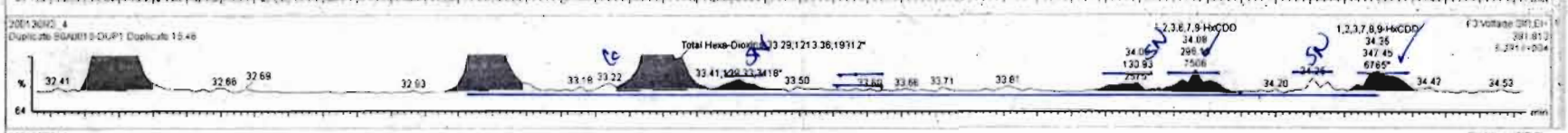
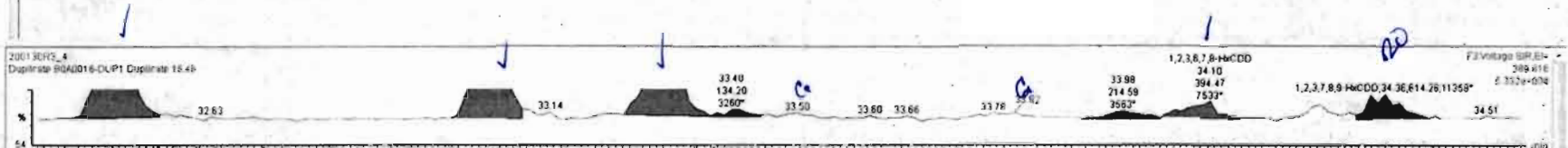


13C-1,2,3,4,7,8-HxCDD



#	Name	Resp	RA	nV	RRF	wt/mol	Pred RT	RT	Pred R	RRT	RRT Fld	Conc	%Rec	DL	EMPC
39	Total Tetra-Decans				0.0240	10.006	24.52		0.000		NO	0.0004		0.0911	1.349
40	Total Penta-Decans				0.9115	10.006	29.96		0.000		NO	0.3054		0.0777	1.447
41	Total Hexa-Decans				0.7941	10.006	33.63		0.000		NO	3.815		0.149	4.078
42	Total Hepta-Decans				0.7368	10.006	37.04		0.000		NO	7.390		0.182	7.300
43	Total Tetra-Furans				0.5975	10.006	23.61		0.000		NO	1.657		0.152	2.715
44	Total Penta-Furans				0.8281	10.006	27.09		0.000		NO			0.0186	
45	Total Hexa-Furans				0.8281	10.006	29.27		0.000		NO	0.5920		0.0740	0.6794
46	Total Hepta-Furans				0.7585	10.006	33.58		0.000		NO	0.2314		0.0690	0.7170
47	Total Octa-Furans				0.7164	10.006	37.43		0.000		NO	0.4503		0.1171	0.6093

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nV	EMPC	Conc
1	41 Total Hexa-Decans	33.63	32.49	3.016e3	2.522e3	1.240	1.20	NO	1.6908	1.6908
2	41 Total Hexa-Decans	33.63	33.04	2.044e3	1.600e3	1.240	1.27	NO	1.1003	1.1093
3	41 Total Hexa-Decans	33.63	33.32	1.472e3	1.236e3	1.240	1.18	NO	0.89186	0.82186
4	1,2,3,6,7,8-HxCDD	34.07	34.10	3.977e2	2.962e2	1.240	1.33	NO	0.20195	0.26195
5	1,2,3,7,8,9-HxCDD	34.26	34.26	7.062e2	4.074e2	1.240	1.74	YES	0.26468	0.00000



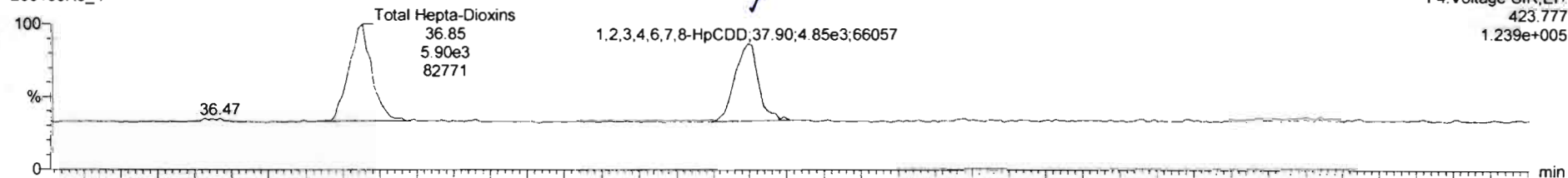
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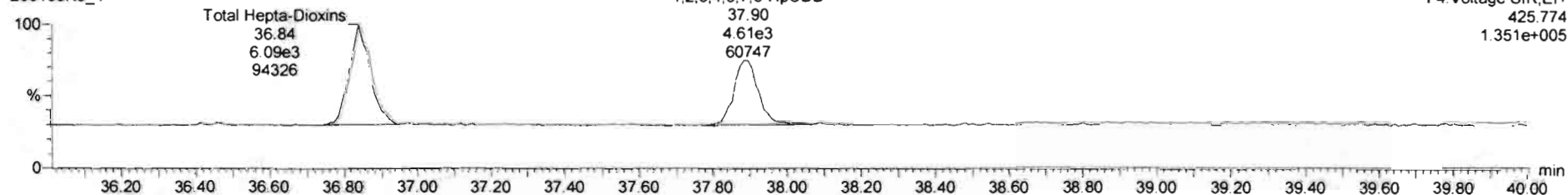
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1,2,3,4,6,7,8-HpCDD

200130R3_4

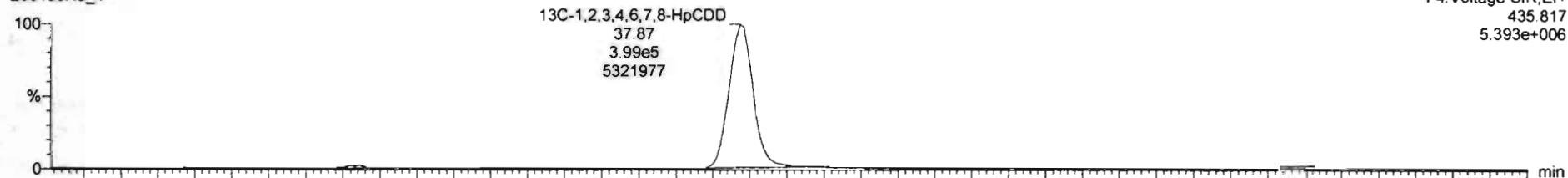


200130R3_4

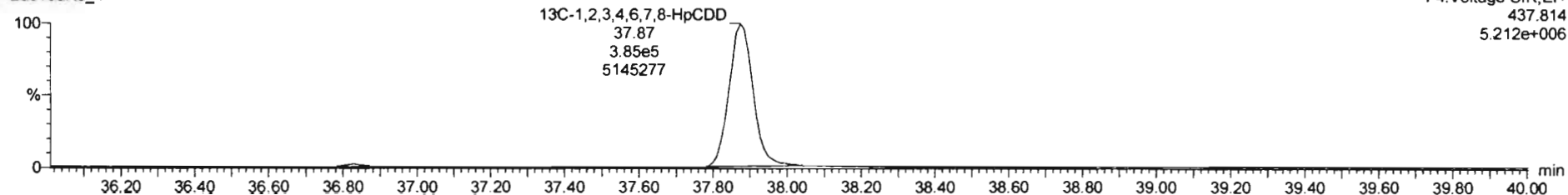


13C-1,2,3,4,6,7,8-HpCDD

200130R3_4



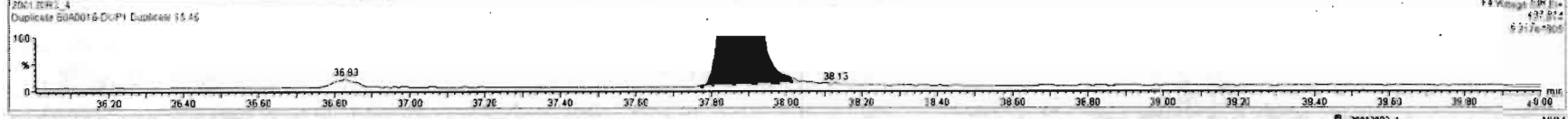
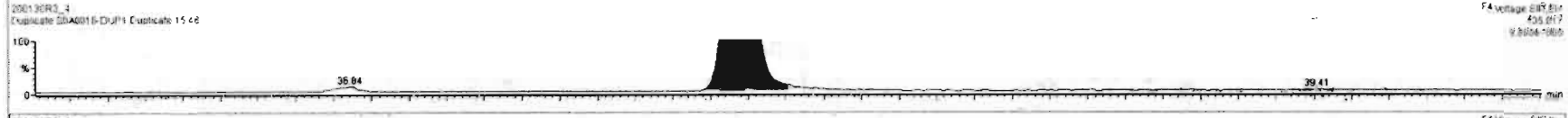
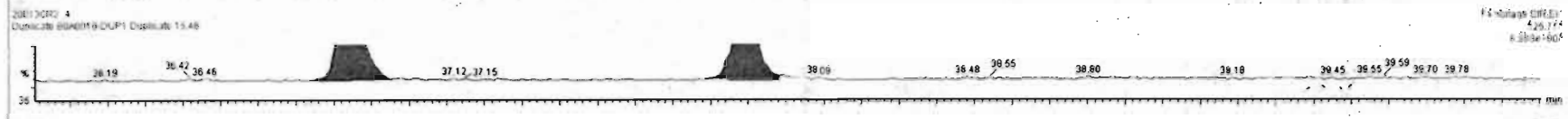
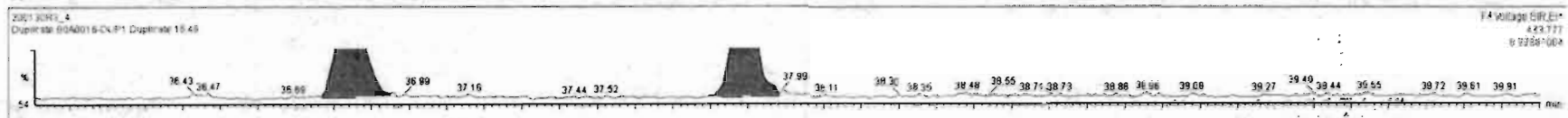
200130R3_4



201303_4 - E:\A\1011-DUP1-Duplicate 15.46 - Duplicate

#	Name	Resp	RA	n/y	RRF	wAve	Pred RT	RT	Pred R	RRT	RRT Tol	Conc	%Prec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.066	24.62		0.000		NO	0.3684	0.0911	1.349	
40	Total Penta-Dioxins				0.9116	10.066	29.96		0.000		NO	0.3054	0.0777	1.447	
41	Total Hexa-Dioxins				0.7941	10.066	33.63		0.000		NO	3.694	0.147	3.919	
42	Total Hexa-Furans				0.7389	10.066	37.64		0.000		NO	7.380	0.182	7.380	
43	Total Tetra-Furans				0.5876	10.066	23.61		0.000		NO	1.657	0.152	2.715	
44	1st Func. Penta-Furans				0.8261	10.066	27.06		0.000		NO		0.0166		
45	Total Penta-Furans				0.8261	10.066	29.27		0.000		NO	0.0920	0.0740	0.6794	
46	Total Hexa-Furans				0.7665	10.066	33.56		0.000		NO	0.2314	0.0855	0.7170	
47	Total Hexa-Furans				0.7745	10.066	37.87		0.000		NO	0.4021	0.1171	0.2693	

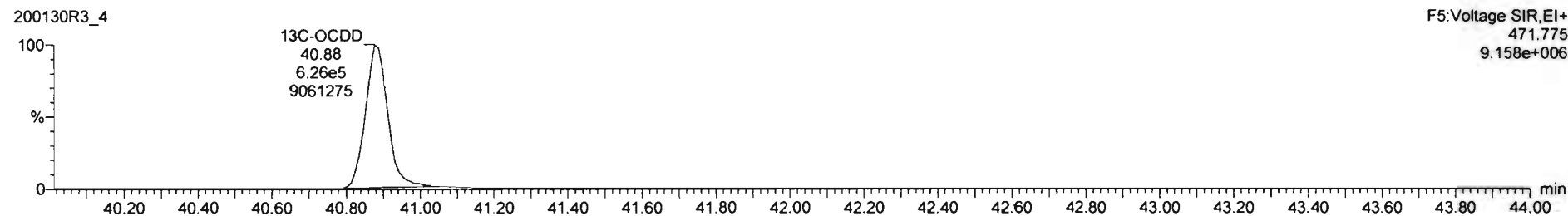
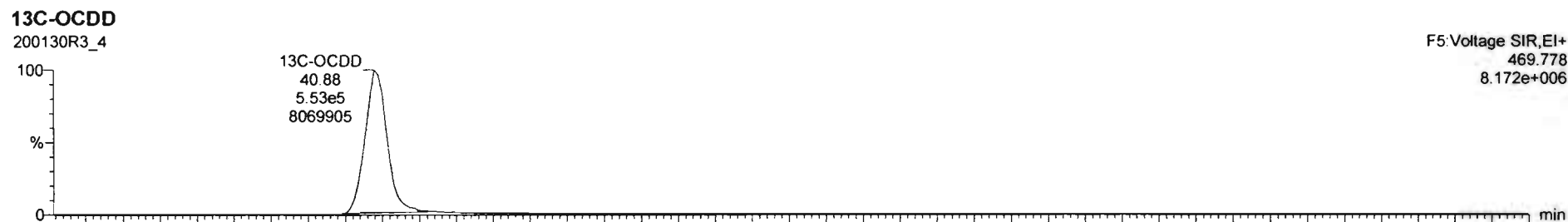
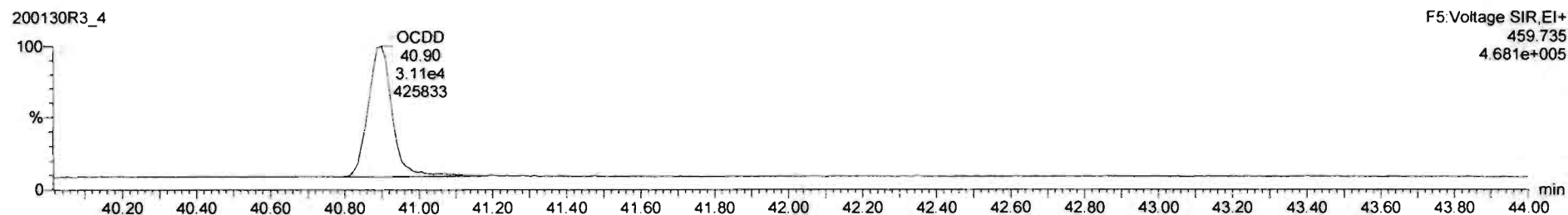
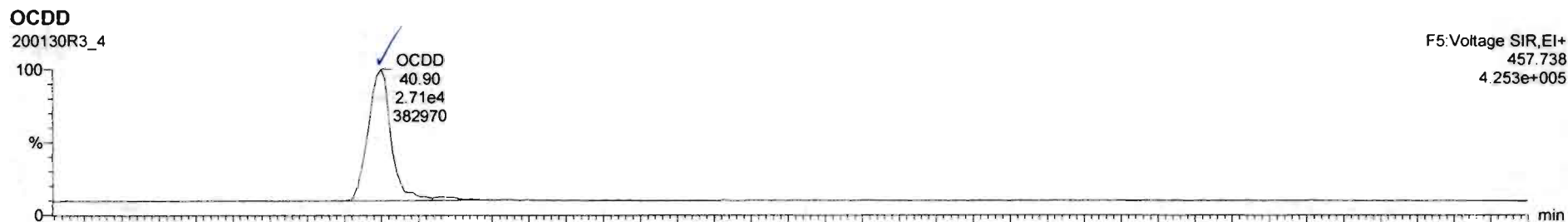
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	42 Total Hexa-Dioxins	37.64	36.65	5.897e3	6.052e3	1.040	0.97	NO	4.1239	4.1239
2	6 1,2,3,4,6,7,8-HpCDD	37.69	37.90	4.054e3	4.613e3	1.040	1.05	NO	3.2561	3.2561



Dataset: Untitled

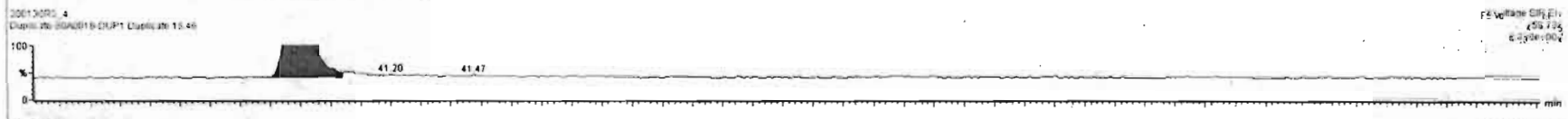
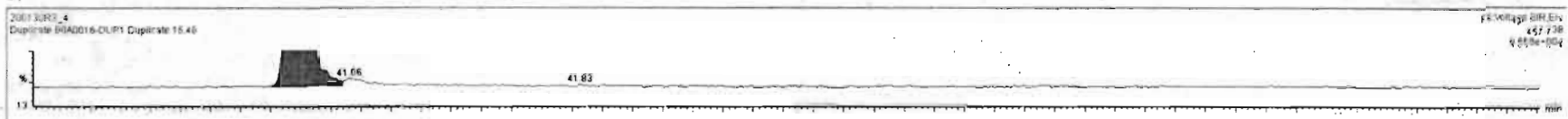
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Name: 200130R3_4, Date: 31-Jan-2020, Time: 05:27:46, ID: B0A0016-DUP1 Duplicate 15.46, Description: Duplicate



#	Name	Resp	RA	nV	RRF	WtAve	Pred RT	RT	Peak R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
7	OCDD	5.01e4	0.87	NO	0.8000	10.066	40.95	40.90	1.000	1.000	NO	24.49		0.175	24.49
8	1,2,3,7,8-TCDF	9.99e2	1.02	YES	0.5878	10.066	24.82	24.82	1.001	1.001	NO	0.2427		0.152	0.2120
9	1,2,3,7,8-PeCDF	1.22e3	1.68	NO	0.8261	10.066	29.35	29.35	1.001	1.000	NO	0.2221		0.0746	0.2220
10	1,2,3,4,7,8-PeCDF				0.8490	10.066	30.35		1.001		NO			0.0714	
11	1,2,3,4,7,8-HxCDF	8.32e2	1.23	NO	0.7865	10.066	33.10	33.13	1.000	1.001	NO	0.2314		0.0782	0.2310
12	1,2,3,6,7,8-HxCDF	4.85e2	0.98	YES	0.7201	10.066	33.21	33.24	1.000	1.001	NO	0.1292		0.0792	0.1160
13	1,2,3,4,6,7,8-HxCDF				0.7665	10.066	33.83		1.001		NO			0.0896	
14	1,2,3,7,8,9-HxCDF				0.7096	10.066	34.70		1.000		NO			0.116	
14	1,2,3,7,8,9-HxCDF	1.12e3	0.98	NO	0.7314	10.066	34.47	34.47	1.001	1.001	NO	0.2473		0.1061	0.2460

#	Name	Pred RT	RT	n1 Resp	n2 Resp	1 st Ratio (Pred)	RA	nV	EMPC	Conc.
1										



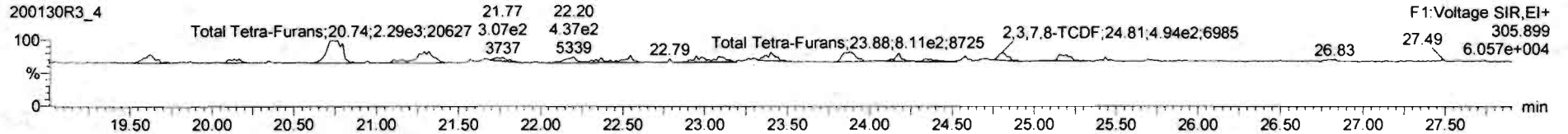
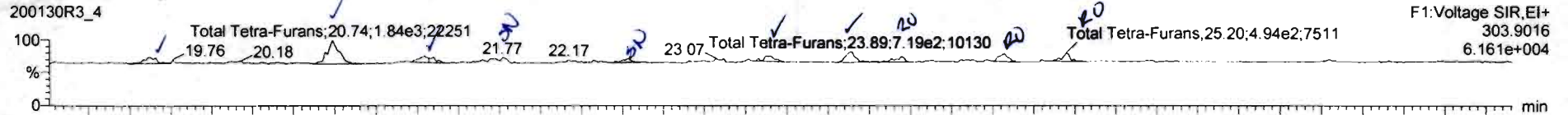
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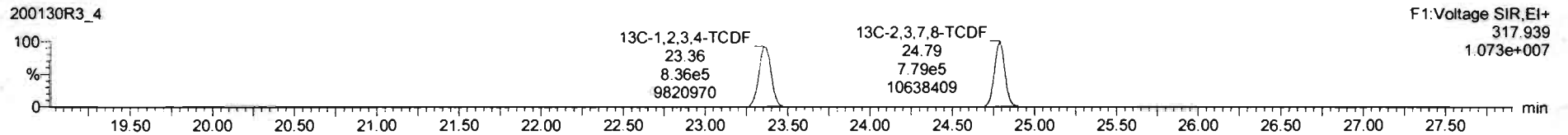
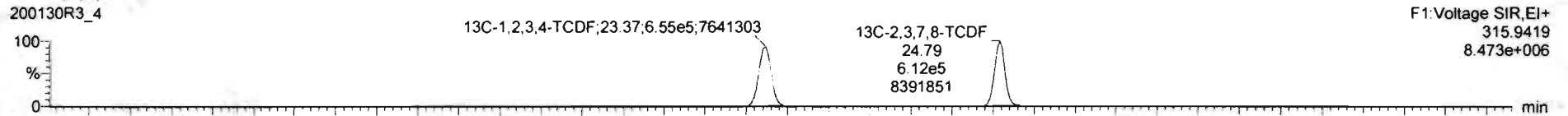
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Name: 200130R3_4, Date: 31-Jan-2020, Time: 05:27:46, ID: B0A0016-DUP1 Duplicate 15.46, Description: Duplicate

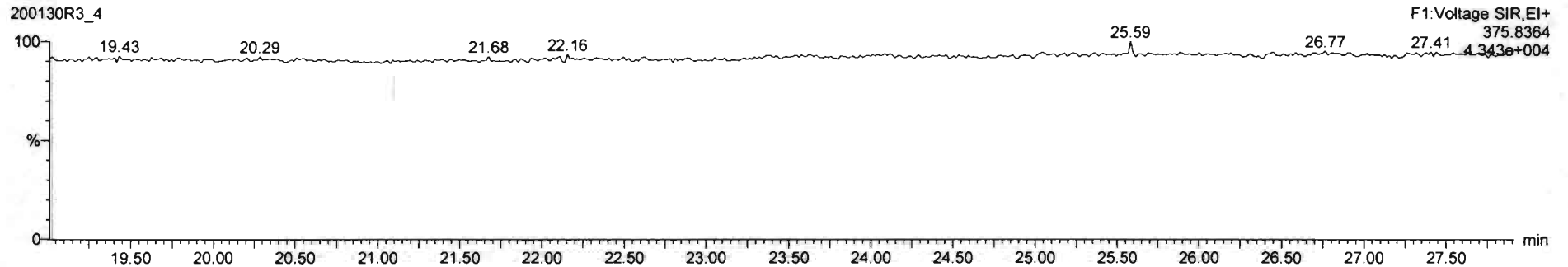
2,3,7,8-TCDF



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



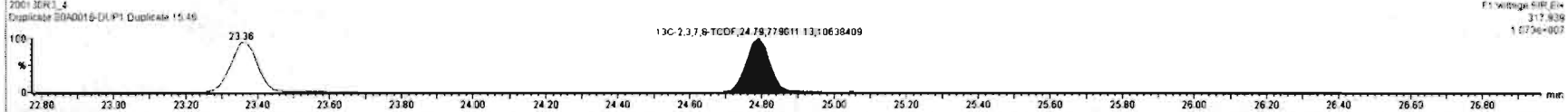
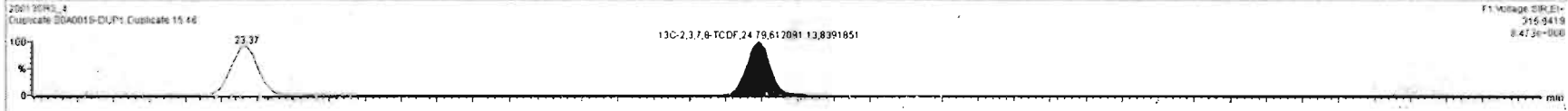
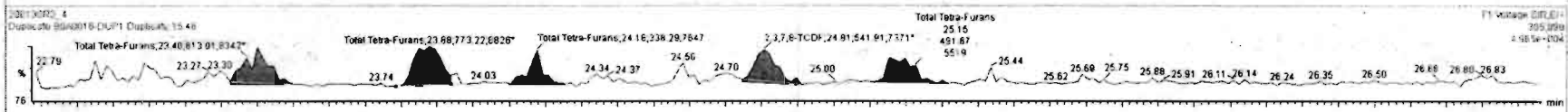
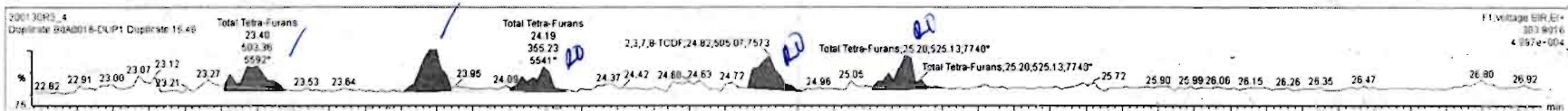
DPE1



201130R3_4 - B0A0016-DUP1 Duplicate 15.46 - Duplicate

#	#	Name	Resp	RA	n/y	RRF	wtAval	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
42	42	Total Hepta-Furans				0.7369	10.066	37.64		0.000		NO	7.402		0.182	7.402
43	43	Total Tetra-Furans				0.5878	10.066	23.61		0.000		NO	1.418		0.152	2.336
44	44	1st Func. Penta-Furans				0.8261	10.066	27.06		0.000		NO			0.0168	
45	45	Total Penta-Furans				0.8261	10.066	29.27		0.000		NO	0.5820		0.0740	0.6794
46	46	Total Hexa-Furans				0.7665	10.066	33.96		0.000		NO	0.2514		0.0958	0.7170
47	47	Total Hepta-Furans				0.7316	10.066	37.83		0.000		NO	0.4593		0.112	0.4593
48	48	Peak1														
49	49	Peak2														
50	50	Peak3														

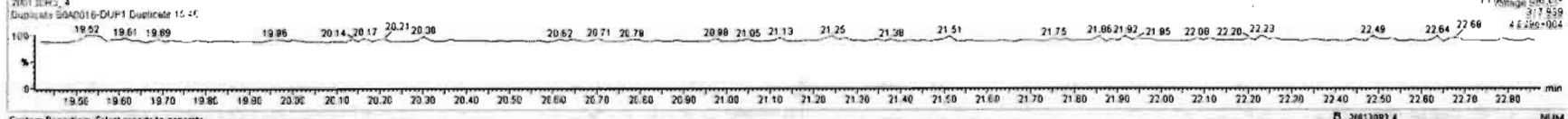
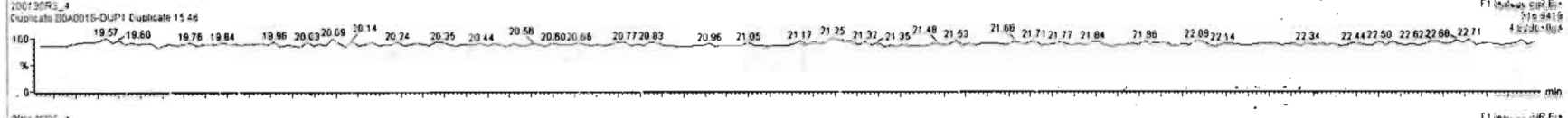
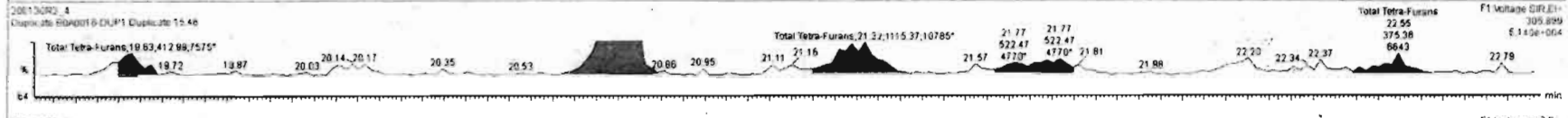
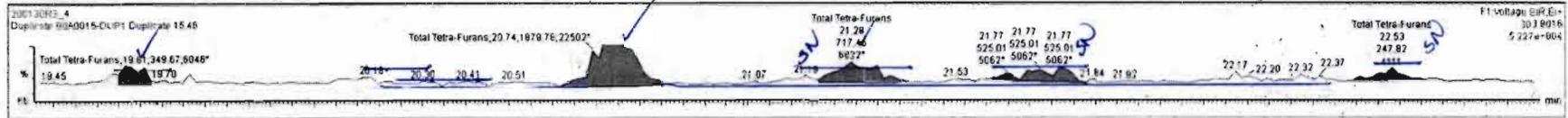
#	#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43	Total Tetra-Furans	23.61	19.61	3.497e2	4.130e2	0.770	0.85	NO	0.18534	0.18534
2	43	Total Tetra-Furans	23.61	20.74	1.800e3	2.230e3	0.770	0.84	NO	0.99072	0.99072
3	43	Total Tetra-Furans	23.61	23.40	4.020e2	5.802e2	0.770	0.72	NO	0.23384	0.23384
4	43	Total Tetra-Furans	23.61	23.89	7.190e2	8.112e2	0.770	0.85	YES	0.34891	0.00000
5	43	Total Tetra-Furans	23.61	24.19	3.798e2	3.383e2	0.770	1.12	YES	0.14551	0.00000
6	8	2,3,7,8-TCDF	24.82	24.82	5.051e2	4.926e2	0.770	1.02	YES	0.21232	0.00000
7	43	Total Tetra-Furans	23.61	25.20	4.941e2	4.917e2	0.770	1.00	YES	0.21148	0.00000



200130R3_4 - B:\Add-to-DUP1 Duplicate 15-46 - Duplicate

#	Name	Resp	RA	n/y	RRF	wt/wt	Pred RT	RT	Pred R	RRT	RRT Filt	Conc.	%Rec	DL	EMPC
42	Total Hepta-Furans				0.7366	10.066	37.84		0.000	NO	7.402			0.162	7.402
43	Total Tetra-Furans				0.5878	10.066	23.81		0.000	NO	1.867			0.152	2.719
44	1st Func. Penta-Furans				0.8261	10.066	27.00		0.000	NO				0.0168	
45	Total Penta-Furans				0.8261	10.066	28.27		0.000	NO	0.5920			0.0740	0.6794
46	Total Hexa-Furans				0.7565	10.066	33.56		0.000	NO	0.2114			0.0959	0.7170
47	Total Hepta-Furans				0.7316	10.066	37.83		0.000	NO	0.4593			0.113	0.4593
48	PH1														
49	PH2														
49	Detc														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	Total Tetra-Furans	23.81	19.61	5.010e2	5.907e2	0.770	0.84	NO	0.26748	0.26748
2	Total Tetra-Furans	23.81	20.74	1.841e3	2.293e3	0.770	0.80	NO	1.0046	1.0046
3	Total Tetra-Furans	23.81	21.35	2.505e2	1.145e3	0.770	0.22	YES	0.13991	0.00000
4	Total Tetra-Furans	23.81	22.53	2.478e2	3.754e2	0.770	0.56	NO	0.15144	0.15144
5	Total Tetra-Furans	23.81	23.40	4.603e2	5.602e2	0.770	0.72	NO	0.23394	0.23394
6	Total Tetra-Furans	23.81	23.89	7.190e2	8.112e2	0.770	0.89	YES	0.34691	0.00000
7	Total Tetra-Furans	23.81	24.19	3.795e2	3.383e2	0.770	1.12	YES	0.14551	0.00000
8	2,3,7,8-TCDF	24.82	24.82	5.051e2	4.936e2	0.770	1.02	YES	0.21232	0.00000



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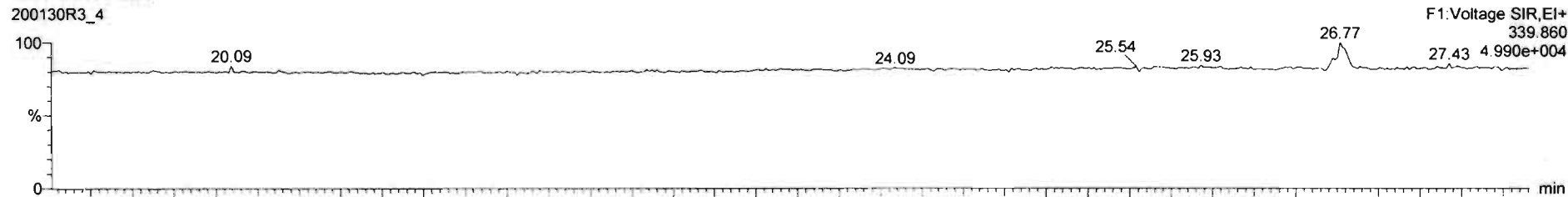
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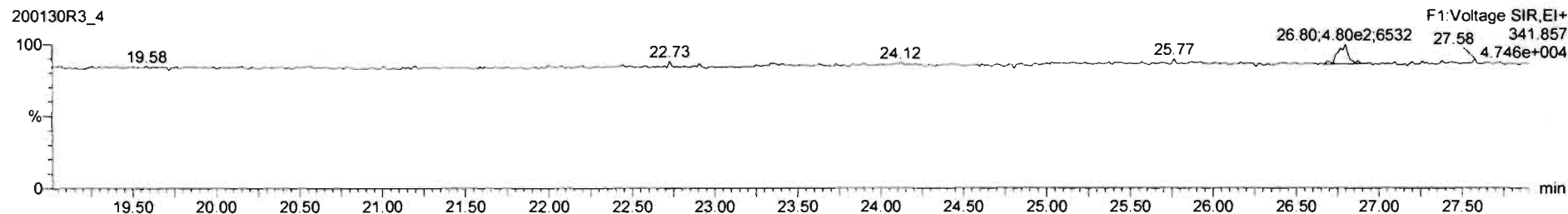
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1st Func. Penta-Furans

200130R3_4

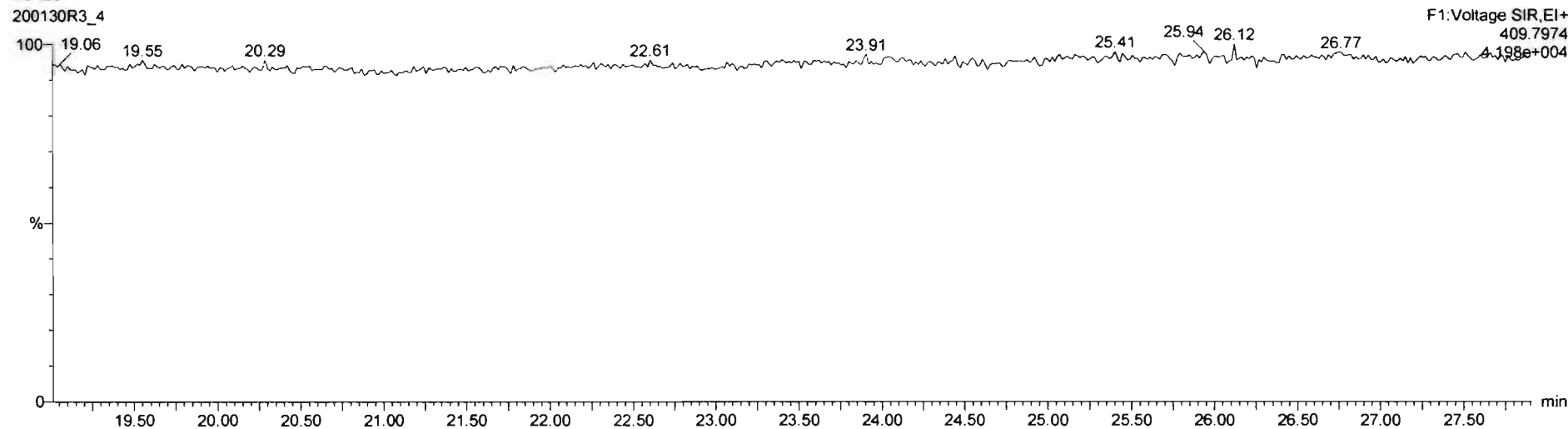


200130R3_4



DPE6

200130R3_4

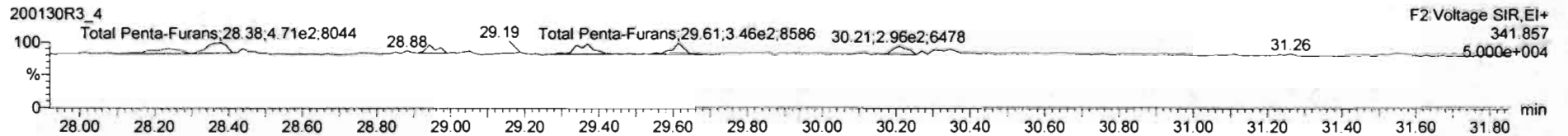


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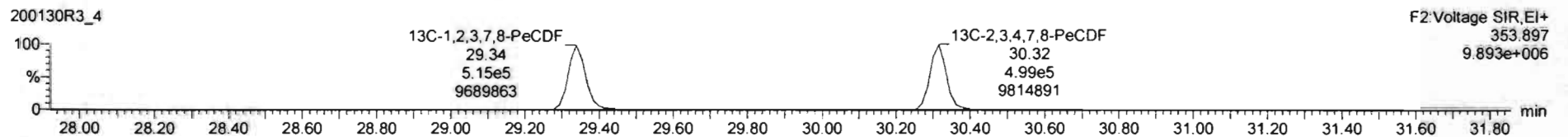
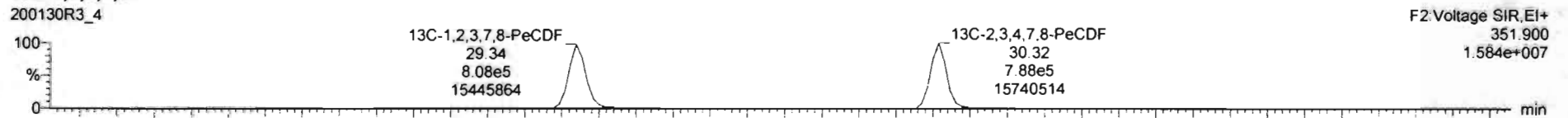
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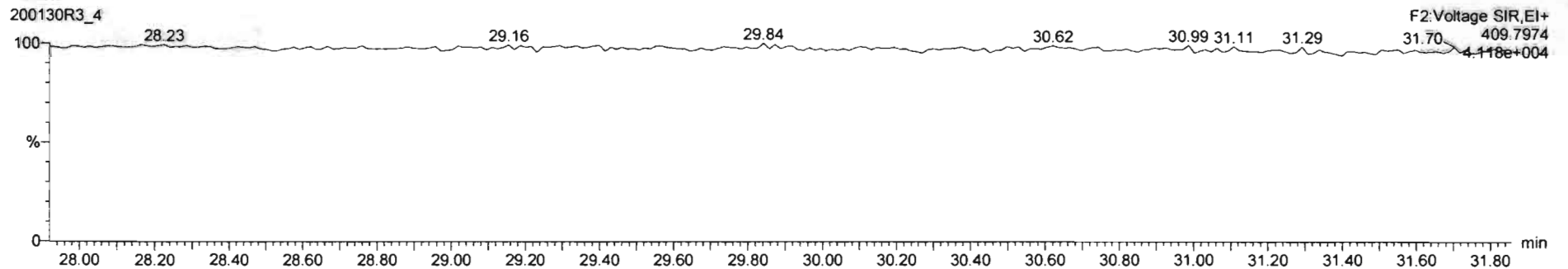
1,2,3,7,8-PeCDF



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



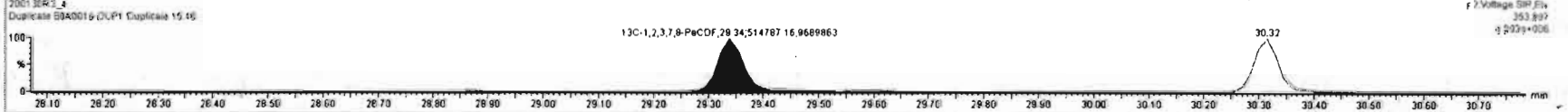
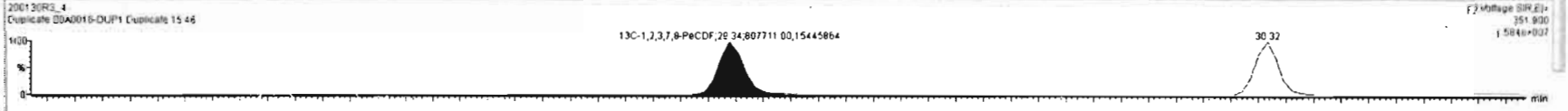
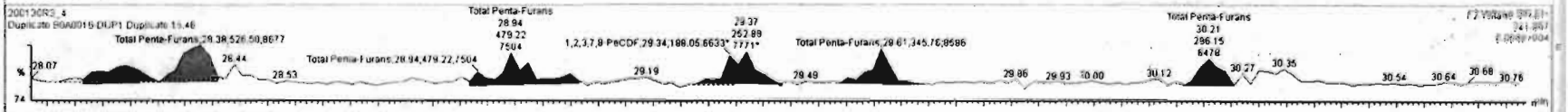
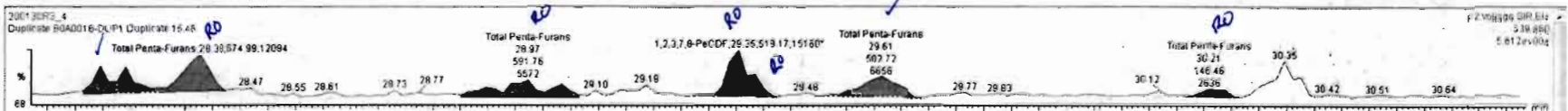
DPE2



2011093_4 - ERM-916-DUF1 Duplicate 15.46 - Dup 6.06

#	Name	Resp	RA	ivY	RPF	wtMol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
42	Total Hepta-Furans				0.7306	10.066	27.64		0.000		NO	7.402		0.162	7.402
43	Total Tetra-Furans				0.5876	10.096	23.61		0.000		NO	1.802		0.162	2.362
44	1st Func. Penta-Furans				0.8261	10.066	27.06		0.000		NO			0.0168	
45	Total Penta-Furans				0.8281	10.066	29.27		0.000		NO	0.5452		0.0740	0.8738
46	Total Hexa-Furans				0.7865	10.096	33.96		0.000		NO	0.2314		0.0659	0.7170
47	Total Hepta-Furans				0.7316	10.066	37.83		0.000		NO	0.4593		0.113	0.4593
48	PFx1														
49	PFx2														
49	PFx3														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	ivY	EMPC	Conc
1	45 Total Penta-Furans	29.27	29.20	5.857e2	3.452e2	1.550	1.70	NO	0.17159	0.17159
2	45 Total Penta-Furans	29.27	29.38	6.750e2	5.265e2	1.550	1.26	YES	0.20469	0.00000
3	45 Total Penta-Furans	29.27	28.97	5.918e2	4.752e2	1.550	1.23	YES	0.17945	0.00000
4	8 1,2,3,7,8-PeCDF	29.36	29.36	7.537e2	4.403e2	1.550	1.71	NO	0.21725	0.21725
5	45 Total Penta-Furans	29.27	29.81	5.027e2	3.458e2	1.550	1.45	NO	0.15640	0.15640
6	45 Total Penta-Furans	29.27	30.21	1.465e2	2.962e2	1.550	0.49	YES	0.044413	0.00000

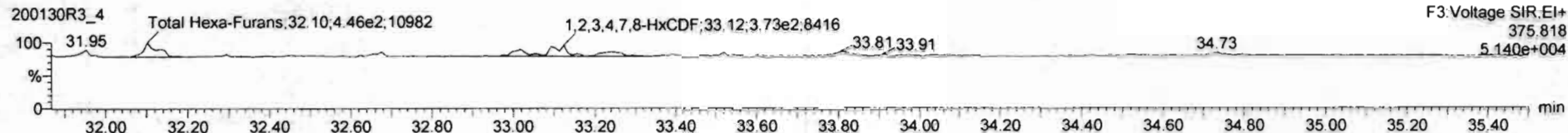
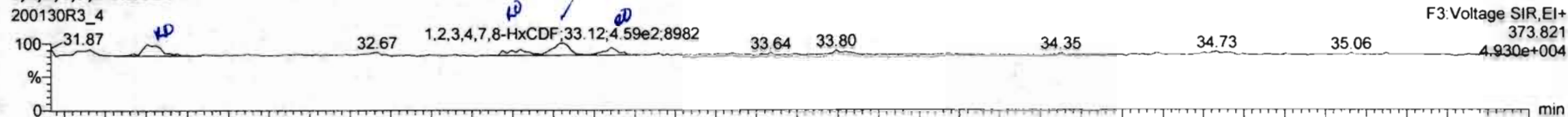


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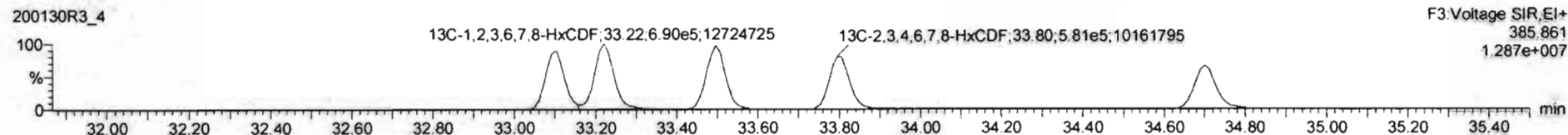
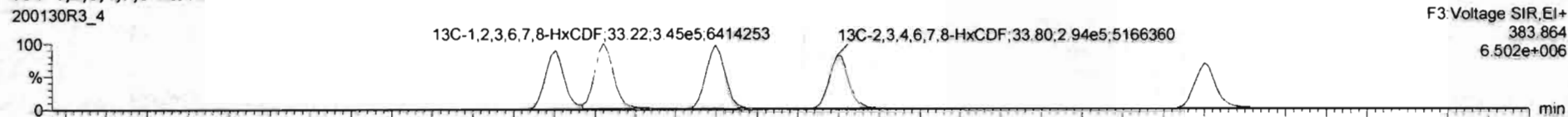
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Printed: Friday, January 31, 2020 16:24:31 Pacific Standard Time

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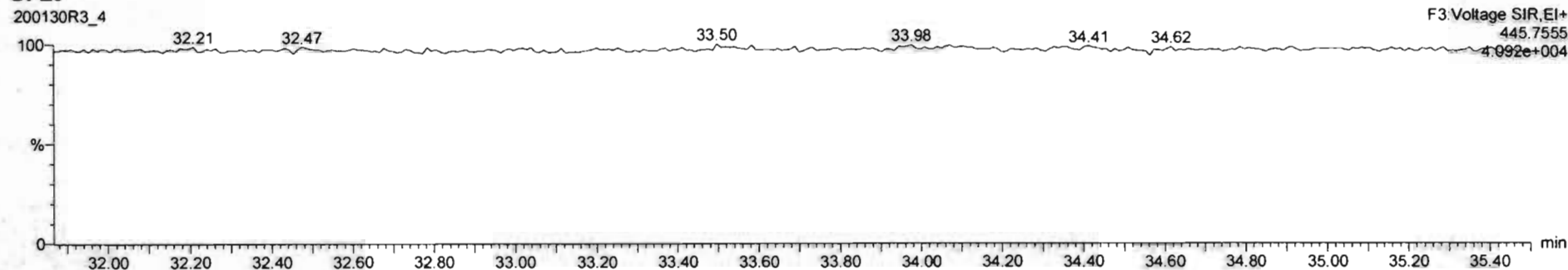
1,2,3,4,7,8-HxCDF



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



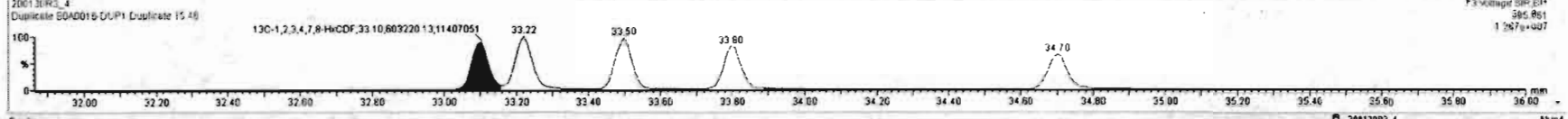
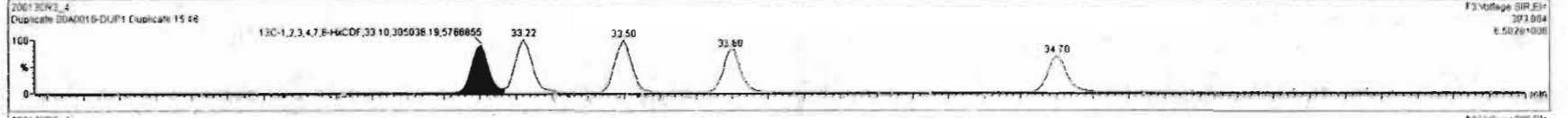
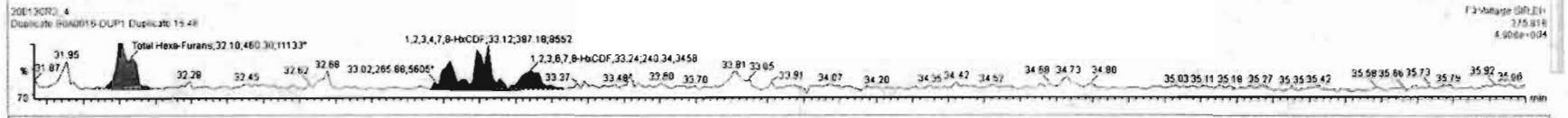
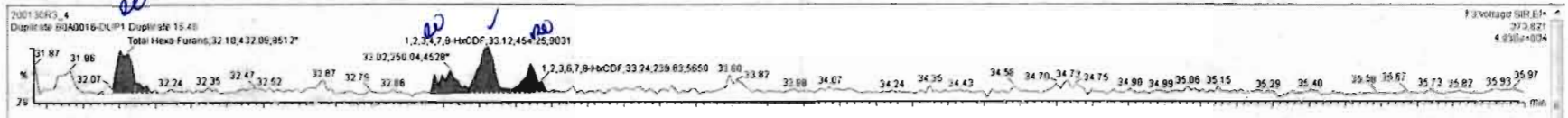
DPE3



200130R3_4 - E:\A\016-DUP1 - Duplicates 15-46 - Dup 15-46

#	Name	Resp	RA	n/y	RRF	wtAol	Pred RT	RT	Pred R	RRT	RRT Fld	Conc	MArc	Dt	EMPC
42	Total Hexa-Dioxins				0.7369	10.066	37.64		0.000		NO	7.402		0.185	7.402
43	Total Hexa-Furans				0.5876	10.066	23.81		0.000		NO	1.802		0.152	2.302
44	1st Func. Penta-Furans				0.8261	10.066	27.09		0.000		NO			0.0168	
45	Total Penta-Furans				0.8261	10.066	29.27		0.000		NO	0.3200		0.0740	0.9380
46	Total Hexa-Furans				0.7695	10.066	33.56		0.000		NO	0.2340		0.0656	0.5496
47	Total Hepta-Furans				0.7316	10.066	37.83		0.000		NO	0.4617		0.113	0.6597
48	PFH1														
49	PFH2														
50	PFH3														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	33.56	32.10	1.848e2	4.206e2	1.240	0.91	YES	0.20014	0.00000
2	1,2,3,4,7,8-HxCDF	33.10	33.12	4.543e2	3.872e2	1.240	1.17	NO	0.23400	0.23400
3	1,2,3,6,7,8-HxCDF	35.23	33.24	2.398e2	2.403e2	1.240	1.00	YES	0.11541	0.00000



Dataset: Untitled

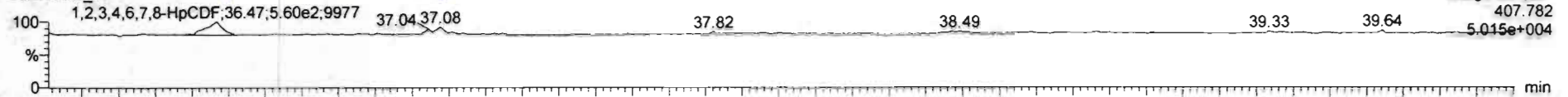
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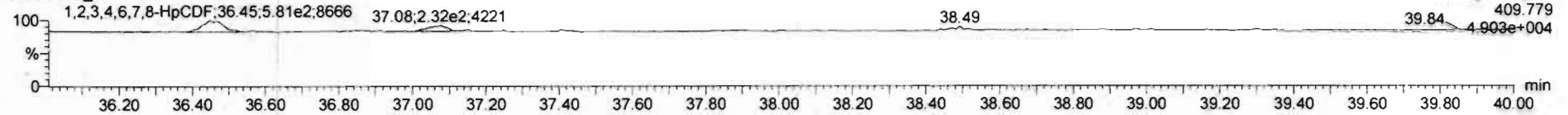
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1,2,3,4,6,7,8-HpCDF

200130R3_4

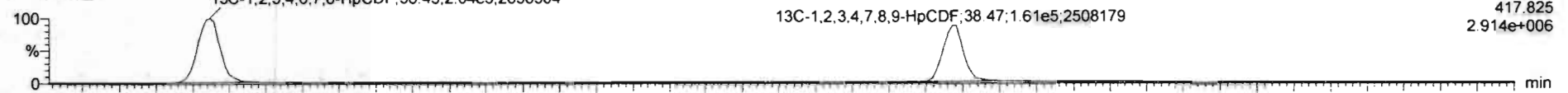


200130R3_4

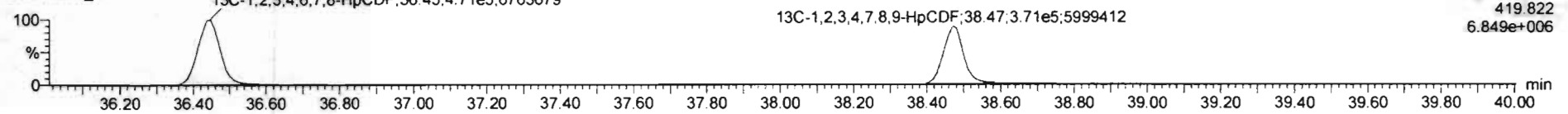


13C-1,2,3,4,6,7,8-HpCDF

200130R3_4

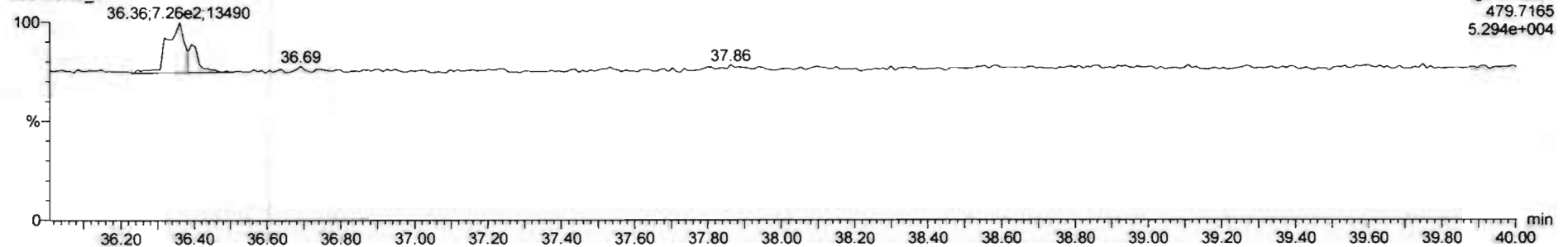


200130R3_4



DPE4

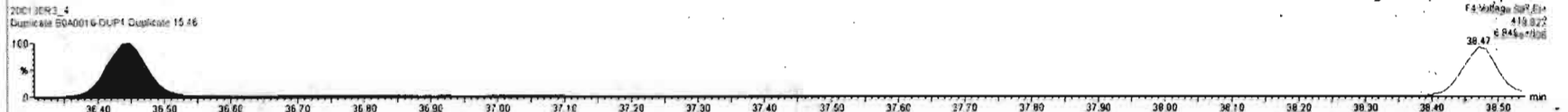
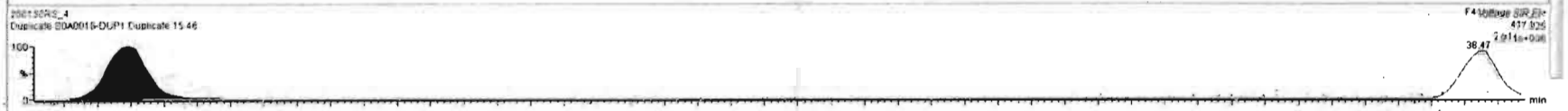
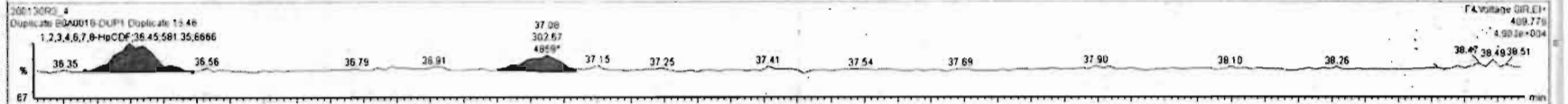
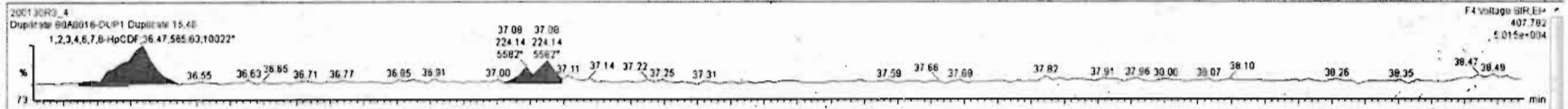
200130R3_4



200130R3_4 - BUA0016-DUP1 Duplicate 15.46 - Duplicate

#	Name	Resp	RA	n/y	R/R	Vol/Vol	Pred RT	RT	Pred R	R/R	RRT Fw	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.7369	10.066	37.64		0.000		NO	7.402		0.182	7.402
43	Total Tetra-Furans				0.5876	10.066	33.61		0.000		NO	1.802		0.152	2.362
44	1st Func. Penta-Furans				0.8261	10.066	27.09		0.000		NO			0.0168	
45	Total Penta-Furans				0.8261	10.066	29.27		0.000		NO	0.3260		0.0740	0.9360
46	Total Hexa-Furans				0.7595	10.066	33.36		0.000		NO	0.2340		0.0858	0.5486
47	Total Hepta-Furans				0.7316	10.066	37.83		0.000		NO	0.4593		0.113	0.4593
48	PFK1														
49	PFK2														
50	PFK3														

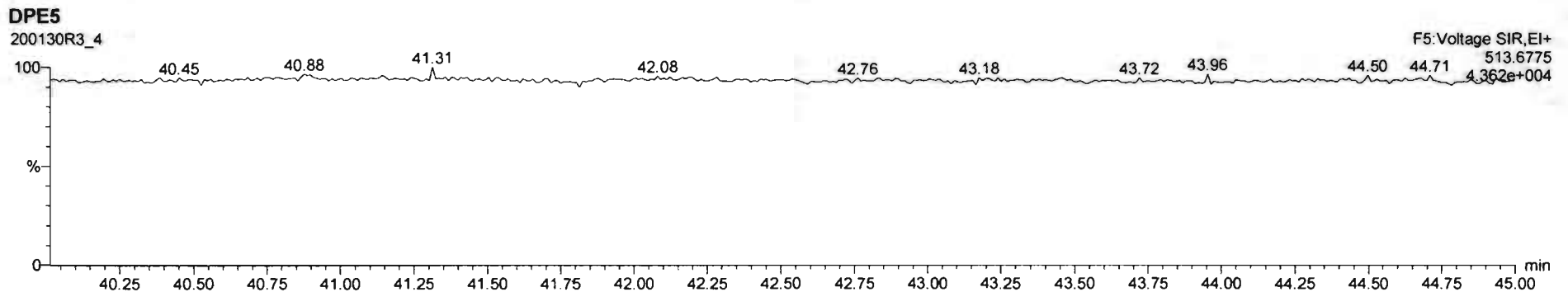
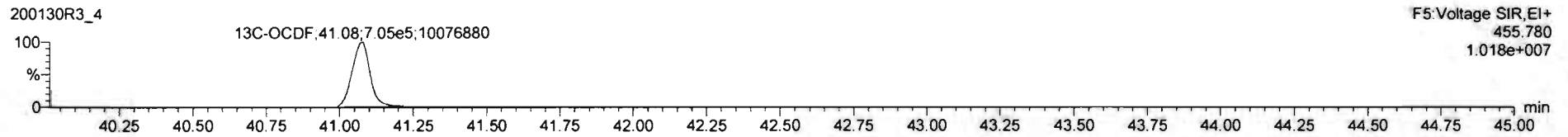
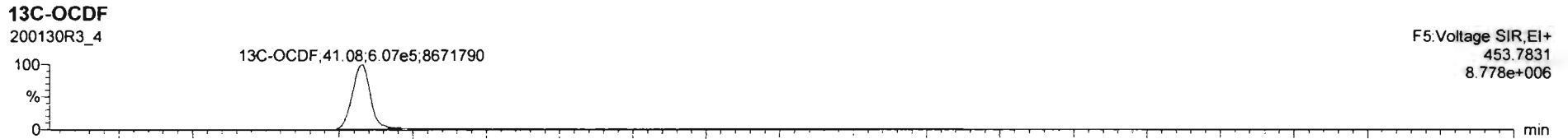
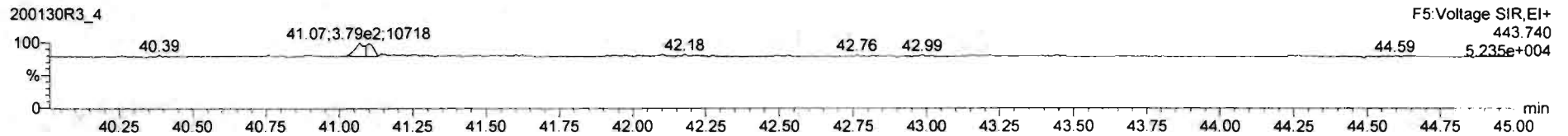
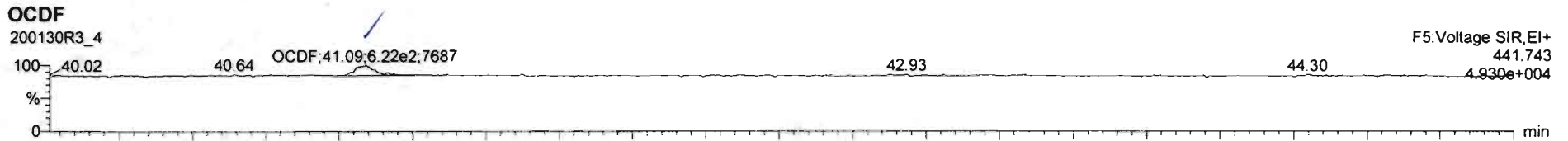
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.49	36.47	5.699e2	5.814e2	1.040	0.96	NO	0.45934	0.45934



Dataset: Untitled

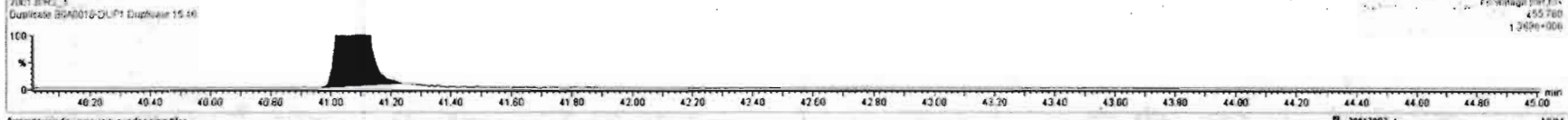
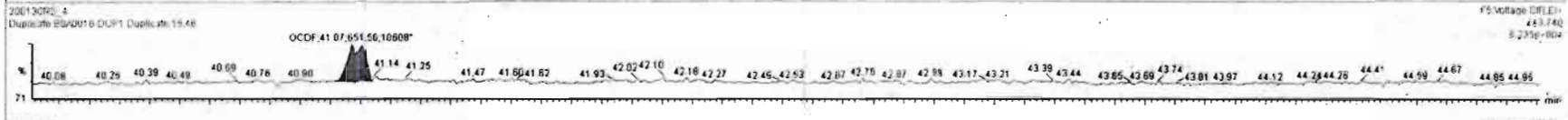
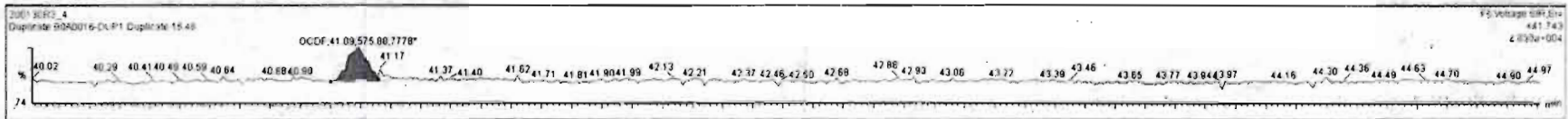
Last Altered: Friday, January 31, 2020 16:23:54 Pacific Standard Time
Printed: Friday, January 31, 2020 16:24:31 Pacific Standard Time

Name: 200130R3_4, Date: 31-Jan-2020, Time: 05:27:46, ID: B0A0016-DUP1 Duplicate 15.46, Description: Duplicate



#	Name	Resp	RA	nV	RRF	wtAvail	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
17	OCDF	9.08e2	2.18	YES	0.6398	10.066	41.06	41.89	1.000	1.000	NO	0.4306		0.136	0.2561
18	13C-1,2,3,7,8-PCDD	1.03e0	0.79	NO	1.1157	10.066	25.88	25.67	1.026	1.026	NO	192.8	97.0		0.218
19	13C-1,2,3,7,8-PeCDD	8.97e5	0.64	NO	0.8411	10.066	30.41	30.62	1.215	1.223	NO	233.2	11.2		0.280
20	13C-1,2,3,4,7,8-HxCDD	7.75e5	1.20	NO	0.8378	10.066	33.97	33.97	1.014	1.014	NO	164.7	82.0		0.287
21	13C-1,2,3,6,7,8-HxCDD	8.73e5	1.27	NO	1.0654	10.066	34.07	34.07	1.017	1.017	NO	163.3	82.0		0.283
22	13C-1,2,3,7,8,9-HxCDD	9.50e5	1.22	NO	1.0003	10.066	34.37	34.25	1.026	1.025	NO	166.0	83.6		0.281
23	13C-1,2,3,4,6,7,8-HpCDD	7.84e5	1.03	NO	0.7099	10.066	37.92	37.88	1.132	1.131	NO	220.2	111		0.584
24	13C-OCDD	1.21e6	0.87	NO	0.6010	10.066	40.80	40.88	1.218	1.220	NO	400.1	104		0.386
25	13C-1,2,3,7,8,9-HxCDF	1.70e6	0.70	NO	1.0007	10.066	34.28	34.19	0.993	0.990	NO	178.8	86.0		0.312

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

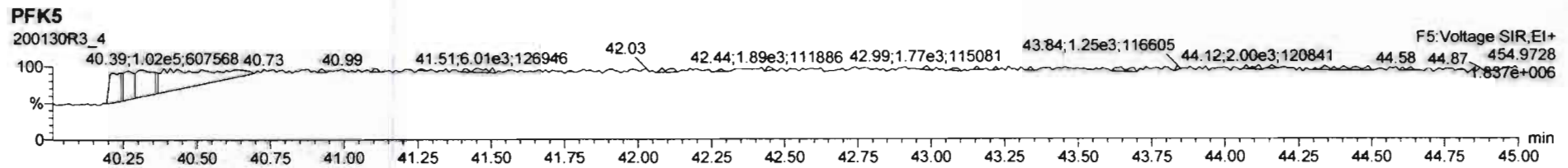
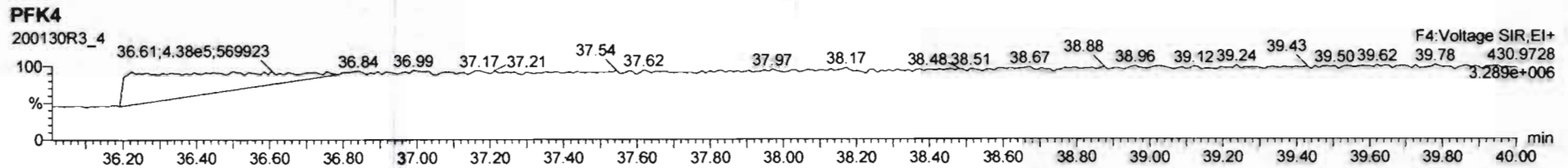
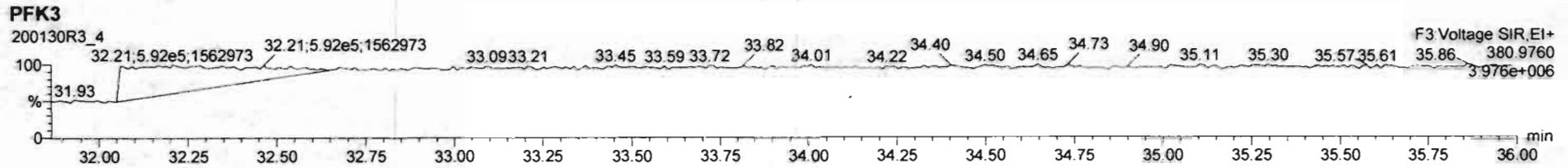
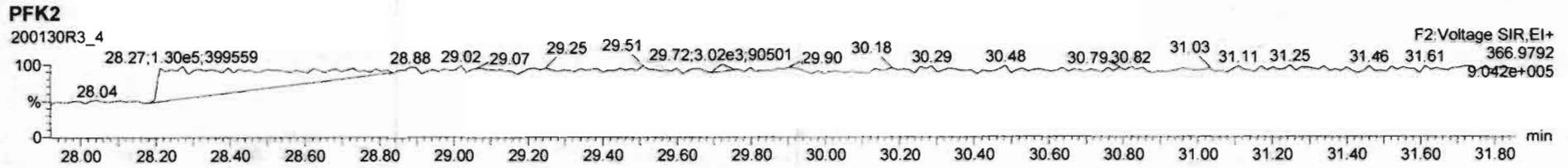
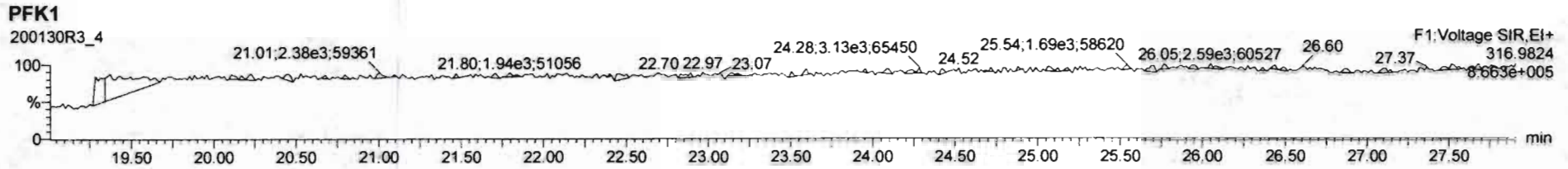


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Last Altered: Friday, January 31, 2020 16:23:54 Pacific Standard Time

Printed: Friday, January 31, 2020 16:24:31 Pacific Standard Time

Name: 200130R3_4, Date: 31-Jan-2020, Time: 05:27:46, ID: B0A0016-DUP1 Duplicate 15.46, Description: Duplicate



Dataset: U:\VG12.PRO\Results\200130R3\200130R3-5.qld

Last Altered: Tuesday, February 04, 2020 15:05:43 Pacific Standard Time
Printed: Tuesday, February 04, 2020 15:06:18 Pacific Standard Time

GPB 02/04/2020

C7 02/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R3_5, Date: 31-Jan-2020, Time: 06:14:54, ID: 1903647-05 PDI-067SC-B-06-08-191010 12.18, Description: PDI-067SC-B-06-08-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	8.27e2	0.37	YES	0.824	10.118	25.736	25.72	1.001	1.001	0.18827		0.0915	0.116
2	2 1,2,3,7,8-PeCDD			NO	0.912	10.118	30.642		1.001				0.0999	
3	3 1,2,3,4,7,8-HxCDD			NO	0.870	10.118	33.987		1.000				0.0799	
4	4 1,2,3,6,7,8-HxCDD			NO	0.784	10.118	34.083		1.000				0.0820	
5	5 1,2,3,7,8,9-HxCDD			NO	0.798	10.118	34.394		1.001				0.0846	
6	6 1,2,3,4,6,7,8-HpCDD	7.97e3	0.99	NO	0.737	10.118	37.907	37.92	1.000	1.001	2.5290		0.135	2.53
7	7 OCDD	5.35e4	0.88	NO	0.800	10.118	40.900	40.91	1.000	1.000	18.558		0.133	18.6
8	8 2,3,7,8-TCDF			NO	0.588	10.118	24.847		1.001				0.0981	
9	9 1,2,3,7,8-PeCDF	8.40e2	1.56	NO	0.826	10.118	29.376	29.39	1.001	1.001	0.15119		0.0598	0.151
10	10 2,3,4,7,8-PeCDF	4.59e2	1.83	YES	0.850	10.118	30.361	30.35	1.001	1.001	0.08317		0.0571	0.0749
11	11 1,2,3,4,7,8-HxCDF	1.29e3	1.11	NO	0.787	10.118	33.114	33.15	1.000	1.001	0.35068		0.0633	0.351
12	12 1,2,3,6,7,8-HxCDF	4.38e2	1.72	YES	0.720	10.118	33.252	33.25	1.000	1.000	0.11595		0.0628	0.0956
13	13 2,3,4,6,7,8-HxCDF			NO	0.766	10.118	33.851		1.001				0.0710	
14	14 1,2,3,7,8,9-HxCDF			NO	0.709	10.118	34.722		1.000				0.0914	
15	15 1,2,3,4,6,7,8-HpCDF	1.52e3	0.97	NO	0.732	10.118	36.494	36.48	1.001	1.001	0.59439		0.146	0.594
16	16 1,2,3,4,7,8,9-HpCDF	5.38e2	1.11	NO	0.816	10.118	38.493	38.50	1.000	1.000	0.22462		0.136	0.225
17	17 OCDF	7.03e3	0.88	NO	0.639	10.118	41.091	41.11	1.000	1.001	2.8515		0.0974	2.85
18	18 13C-2,3,7,8-TCDD	1.05e6	0.81	NO	1.12	10.118	25.706	25.70	1.026	1.026	206.29	104	0.276	
19	19 13C-1,2,3,7,8-PeCDD	9.17e5	0.63	NO	0.841	10.118	30.450	30.62	1.215	1.222	238.35	121	0.398	
20	20 13C-1,2,3,4,7,8-HxCDD	8.08e5	1.27	NO	0.938	10.118	33.977	33.98	1.014	1.014	172.34	87.2	0.339	
21	21 13C-1,2,3,6,7,8-HxCDD	9.06e5	1.27	NO	1.07	10.118	34.078	34.08	1.017	1.017	170.05	86.0	0.299	
22	22 13C-1,2,3,7,8,9-HxCDD	9.17e5	1.25	NO	1.03	10.118	34.379	34.36	1.026	1.025	177.91	90.0	0.309	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.45e5	1.05	NO	0.710	10.118	37.931	37.90	1.132	1.131	237.96	120	0.752	
24	24 13C-OCDD	1.42e6	0.86	NO	0.601	10.118	40.813	40.90	1.218	1.221	473.63	120	0.407	
25	25 13C-2,3,7,8-TCDF	1.36e6	0.77	NO	1.04	10.118	24.887	24.82	0.993	0.990	179.17	90.6	0.234	
26	26 13C-1,2,3,7,8-PeCDF	1.33e6	1.60	NO	0.917	10.118	29.222	29.35	1.166	1.171	198.35	100	0.447	
27	27 13C-2,3,4,7,8-PeCDF	1.29e6	1.58	NO	0.903	10.118	30.175	30.33	1.204	1.210	194.89	98.6	0.454	
28	28 13C-1,2,3,4,7,8-HxCDF	9.24e5	0.51	NO	0.861	10.118	33.106	33.11	0.988	0.988	214.60	109	0.548	
29	29 13C-1,2,3,6,7,8-HxCDF	1.04e6	0.50	NO	1.05	10.118	33.206	33.24	0.991	0.992	198.29	100	0.451	
30	30 13C-2,3,4,6,7,8-HxCDF	8.98e5	0.51	NO	0.946	10.118	33.813	33.82	1.009	1.009	189.86	96.1	0.500	
31	31 13C-1,2,3,7,8,9-HxCDF	8.48e5	0.50	NO	0.816	10.118	34.714	34.72	1.036	1.036	207.81	105	0.579	

Dataset: U:\VG12.PRO\Results\200130R3\200130R3-5.qld

Last Altered: Tuesday, February 04, 2020 15:05:43 Pacific Standard Time

Printed: Tuesday, February 04, 2020 15:06:18 Pacific Standard Time

Name: 200130R3_5, Date: 31-Jan-2020, Time: 06:14:54, ID: 1903647-05 PDI-067SC-B-06-08-191010 12.18, Description: PDI-067SC-B-06-08-191010

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	6.91e5	0.44	NO	0.589	10.118	36.457	36.46	1.088	1.088	234.61	119	0.779	
33	13C-1,2,3,4,7,8,9-HpCDF	5.80e5	0.45	NO	0.448	10.118	38.467	38.49	1.148	1.149	258.87	131	1.02	
34	13C-OCDF	1.53e6	0.90	NO	0.586	10.118	41.047	41.09	1.225	1.226	520.94	132	0.560	
35	37Cl-2,3,7,8-TCDD	4.28e5			1.09	10.118	25.739	25.72	1.027	1.026	86.207	109	0.0910	
36	13C-1,2,3,4-TCDD	9.05e5	0.80	NO	1.00	10.118	25.080	25.06	1.000	1.000	197.67	100	0.308	
37	13C-1,2,3,4-TCDF	1.44e6	0.79	NO	1.00	10.118	23.420	23.40	1.000	1.000	197.67	100	0.243	
38	13C-1,2,3,4,6,9-HxCDF	9.88e5	0.50	NO	1.00	10.118	33.520	33.51	1.000	1.000	197.67	100	0.472	
39	Total Tetra-Dioxins				0.824	10.118	24.620		0.000		0.00000		0.0445	0.116
40	Total Penta-Dioxins				0.912	10.118	29.960		0.000		0.078516		0.0538	0.133
41	Total Hexa-Dioxins				0.784	10.118	33.635		0.000		0.66417		0.0855	0.664
42	Total Hepta-Dioxins				0.737	10.118	37.640		0.000		5.4595		0.135	5.46
43	Total Tetra-Furans				0.588	10.118	23.610		0.000		0.12277		0.0981	0.123
44	1st Func. Penta-Furans				0.826	10.118	27.090		0.000		0.00000		0.0169	0.0615
45	Total Penta-Furans				0.826	10.118	29.275		0.000		0.15119		0.0592	0.310
46	Total Hexa-Furans				0.766	10.118	33.555		0.000		0.45737		0.0695	0.553
47	Total Hepta-Furans				0.732	10.118	37.835		0.000		1.4520		0.149	1.45

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Dataset: U:\VG12.PRO\Results\200130R3\200130R3-5.qld

Last Altered: Tuesday, February 04, 2020 15:05:43 Pacific Standard Time

Printed: Tuesday, February 04, 2020 15:06:18 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_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R3_5, Date: 31-Jan-2020, Time: 06:14:54, ID: 1903647-05 PDI-067SC-B-06-08-191010 12.18, Description: PDI-067SC-B-06-08-191010

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	2,3,7,8-TCDD	25.72	3.514e3	9.417e3	2.212e2	6.054e2	0.37	YES	8.266e2	0.00000	0.11581	0.0815

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.45	2.534e3	2.880e3	1.141e2	1.411e2	0.81	YES	0.000e0	0.00000	0.054355	0.0538
2	Total Penta-Dioxins	28.91	2.861e3	5.116e3	1.365e2	1.957e2	0.70	NO	3.322e2	0.078516	0.078516	0.0538

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.50	2.044e4	1.391e4	9.101e2	6.748e2	1.35	NO	1.585e3	0.45559	0.45559	0.0855
2	Total Hexa-Dioxins	33.29	6.605e3	7.500e3	3.870e2	3.386e2	1.14	NO	7.256e2	0.20858	0.20858	0.0855

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.86	6.962e4	7.079e4	4.622e3	4.607e3	1.00	NO	9.230e3	2.9306	2.9306	0.135
2	1,2,3,4,6,7,8-HpCDD	37.92	5.789e4	5.565e4	3.964e3	4.002e3	0.99	NO	7.965e3	2.5290	2.5290	0.135

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	23.91	2.767e3	3.790e3	1.977e2	2.977e2	0.66	NO	4.954e2	0.12277	0.12277	0.0981

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	26.81	3.373e3	3.994e3	2.043e2	1.751e2	1.17	YES	0.000e0	0.00000	0.061530	0.0169

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Printed: Tuesday, February 04, 2020 15:06:18 Pacific Standard Time

Name: 200130R3_5, Date: 31-Jan-2020, Time: 06:14:54, ID: 1903647-05 PDI-067SC-B-06-08-191010 12.18, Description: PDI-067SC-B-06-08-191010

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.41	5.206e3	3.317e3	1.991e2	1.615e2	1.23	YES	0.000e0	0.00000	0.059962	0.0592
2	1,2,3,7,8-PeCDF	29.39	8.173e3	7.146e3	5.115e2	3.280e2	1.56	NO	8.395e2	0.15119	0.15119	0.0598
3	2,3,4,7,8-PeCDF	30.35	5.886e3	2.755e3	2.970e2	1.623e2	1.83	YES	4.593e2	0.00000	0.074907	0.0571
4	Total Penta-Furans	30.41	2.235e3	6.237e3	7.875e1	1.577e2	0.50	YES	0.000e0	0.00000	0.023719	0.0592

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.68	5.049e3	3.733e3	2.106e2	1.728e2	1.22	NO	3.835e2	0.10669	0.10669	0.0695
2	1,2,3,4,7,8-HxCDF	33.15	1.257e4	1.293e4	6.779e2	6.121e2	1.11	NO	1.290e3	0.35068	0.35068	0.0633
3	1,2,3,6,7,8-HxCDF	33.25	6.190e3	3.540e3	2.771e2	1.614e2	1.72	YES	4.384e2	0.00000	0.095595	0.0638

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	36.48	1.257e4	1.381e4	7.485e2	7.722e2	0.97	NO	1.521e3	0.59439	0.59439	0.146
2	Total Hepta-Furans	37.09	1.365e4	1.053e4	7.249e2	7.641e2	0.95	NO	1.489e3	0.63294	0.63294	0.149
3	1,2,3,4,7,8,9-HpCDF	38.50	5.693e3	5.112e3	2.825e2	2.555e2	1.11	NO	5.380e2	0.22462	0.22462	0.136

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Last Altered: Friday, January 31, 2020 16:15:53 Pacific Standard Time

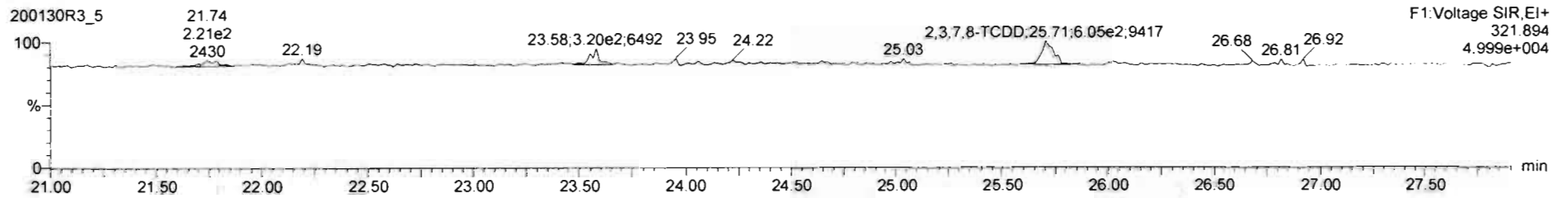
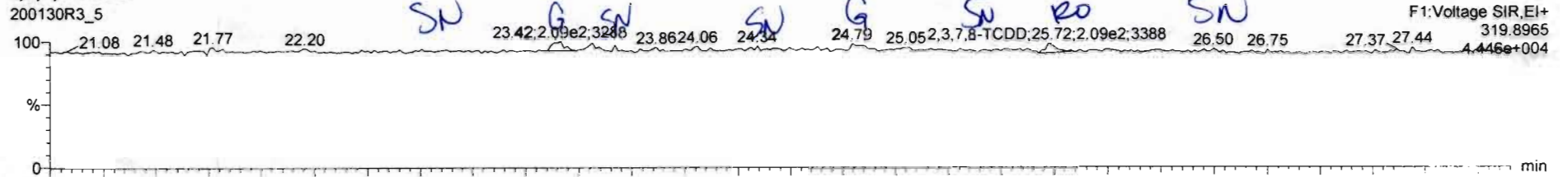
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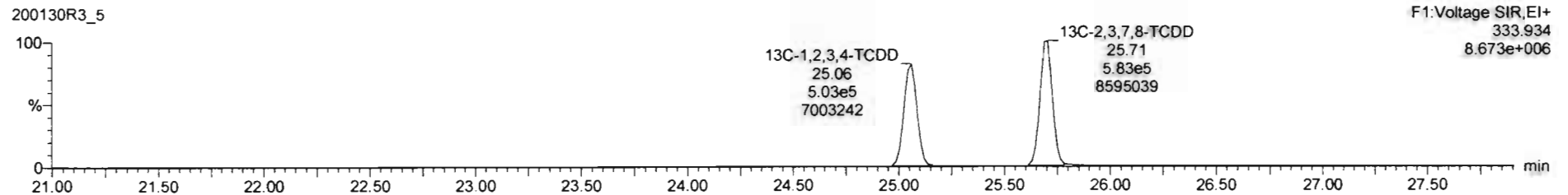
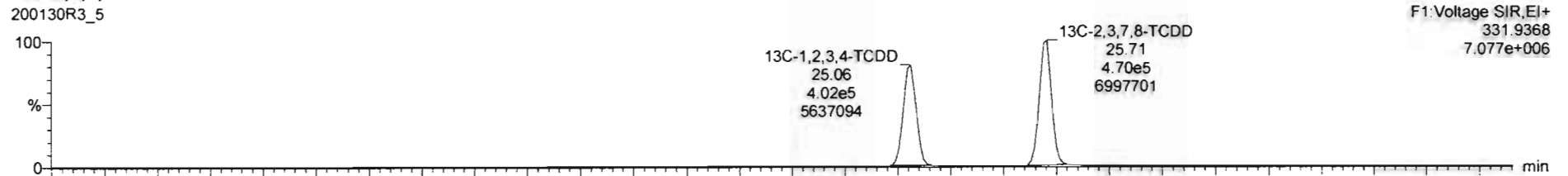
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Name: 200130R3_5, Date: 31-Jan-2020, Time: 06:14:54, ID: 1903647-05 PDI-067SC-B-06-08-191010 12.18, Description: PDI-067SC-B-06-08-191010

2,3,7,8-TCDD

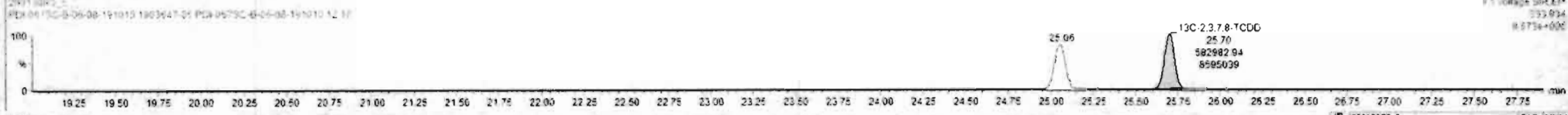
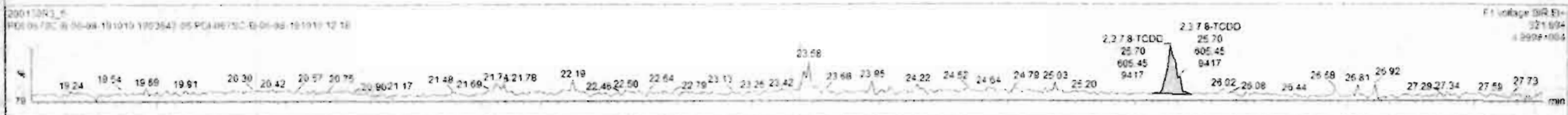
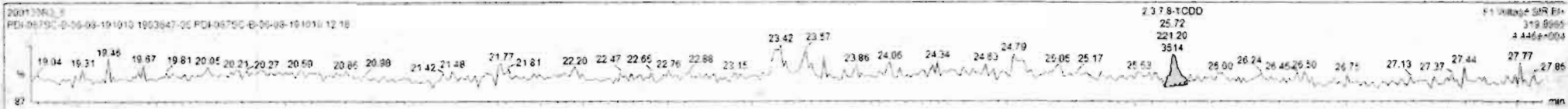


13C-2,3,7,8-TCDD



#	Name	Resp	RA	rvy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8248	10.115			0.000	0.0445	0.115	
40	Total Penta-Dioxins				0.9116	10.115				0.0538		
41	Total Hexa-Dioxins				0.7841	10.115			0.682	0.0855	0.682	

#	Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Coac
1	2,3,7,8-TCDD	25.72	2.212e2	6.054e2	0.37	YES	0.115E1	0.00000



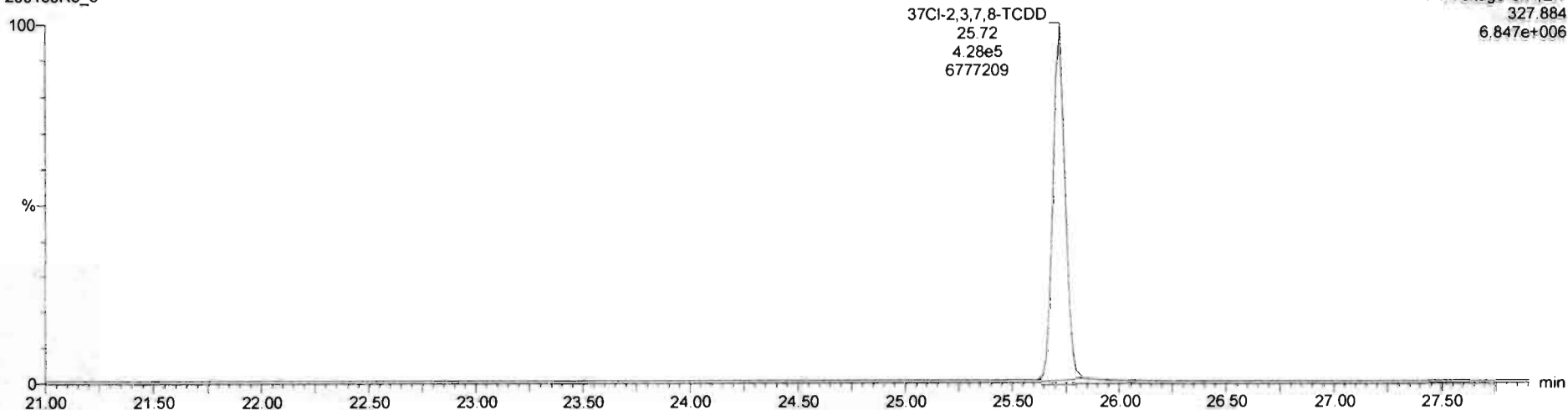
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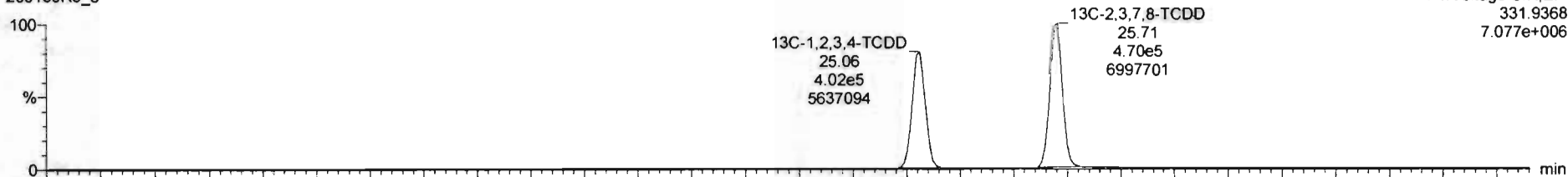
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200130R3_5

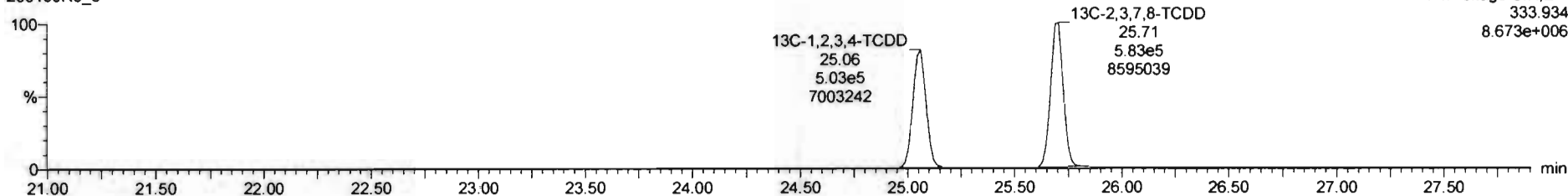


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200130R3_5



200130R3_5



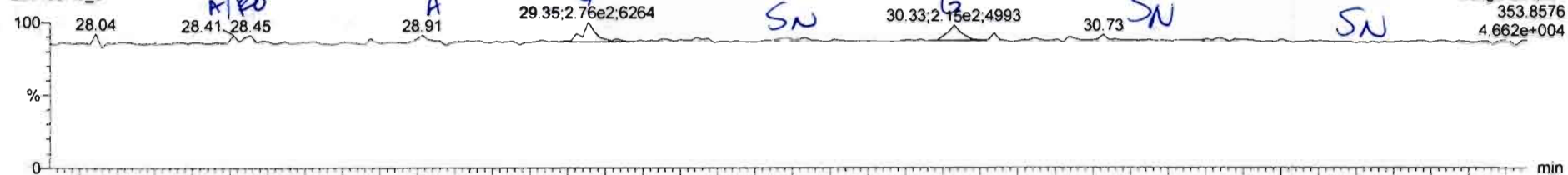
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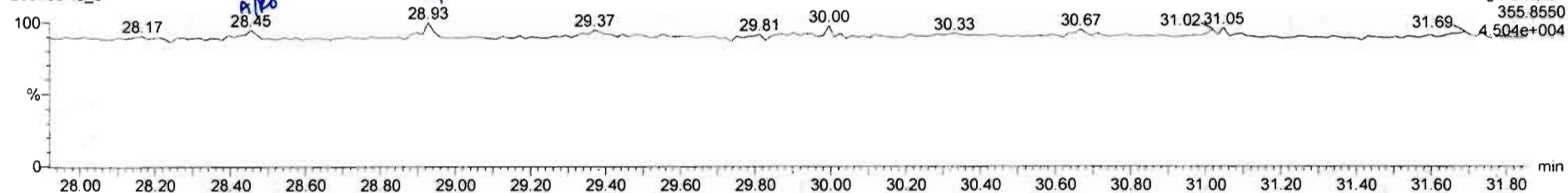
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1,2,3,7,8-PeCDD

200130R3_5



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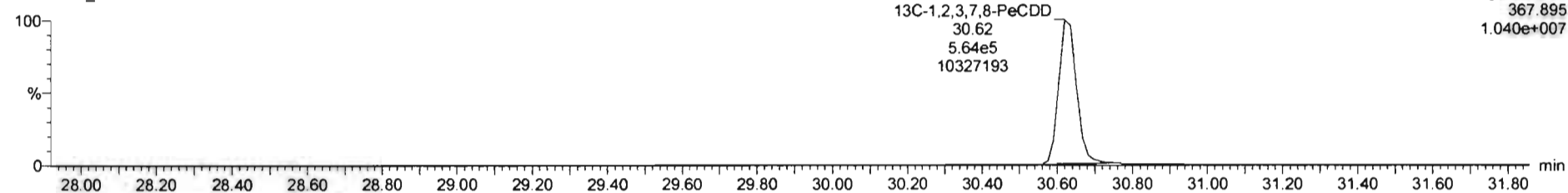


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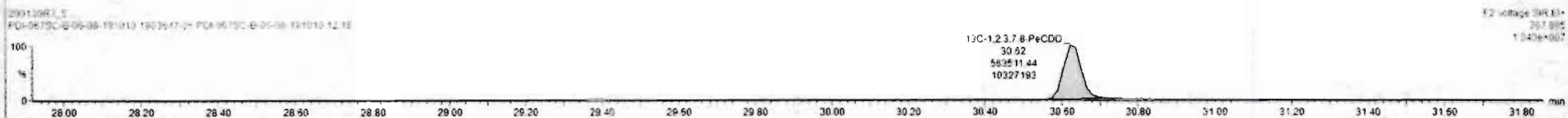
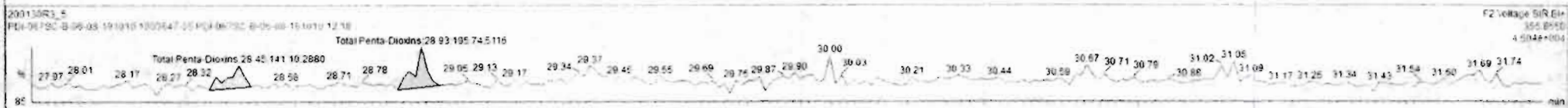
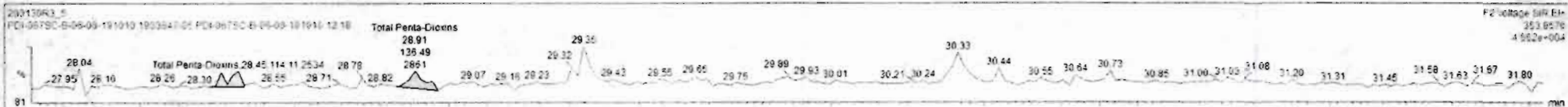
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200130R3_5 - 1903647-05 PDI-067SC-B-06-08-191010 12 18 - PDI-067SC-B-06-08-191010

#	Name	Resp	RA	nLy	RRF	wfVol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8240	10.118			0.060		0.0445	0.116
40	Total Penta-Dioxins				0.9116	10.118			0.0785		0.0538	0.133
41	Total Hexa-Dioxins				0.7841	10.118			0.682		0.0855	0.682

#	Name	RT	m1 Resp	m2 Resp	RA	nLy	EMPC	Conc
1	Total Penta-Dioxins	28.45	1.141e2	1.411e2	0.81	YES	0.054355	0.00000
2	Total Penta-Dioxine	28.81	1.365e2	1.957e2	0.70	NO	0.078516	0.078516



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200130R3_5 CAP NUM

2:30 PM

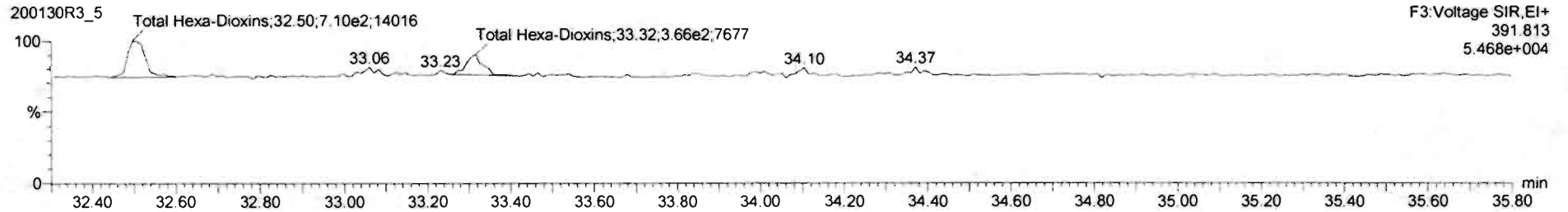
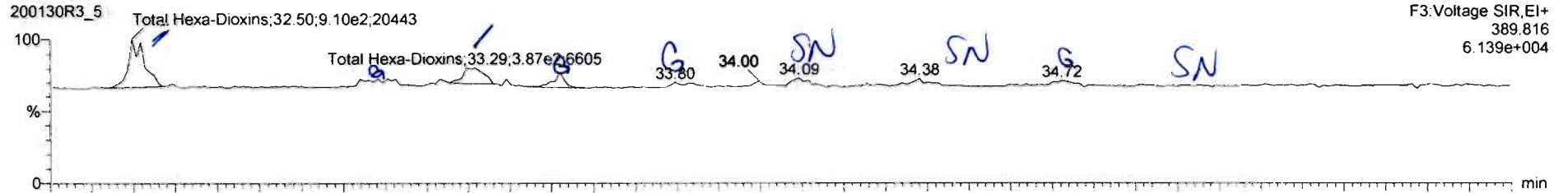
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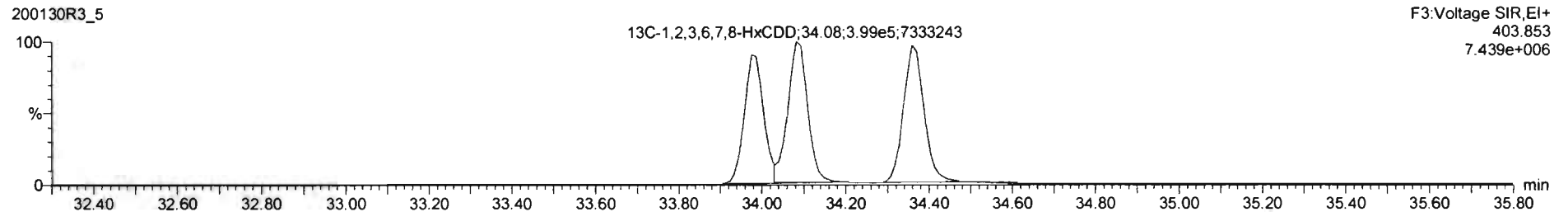
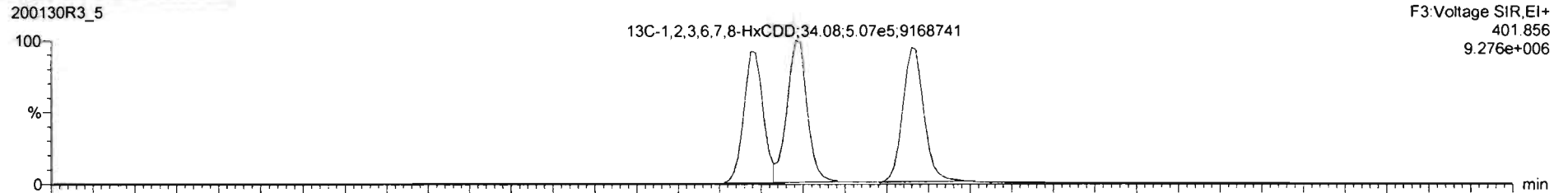
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1,2,3,4,7,8-HxCDD



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



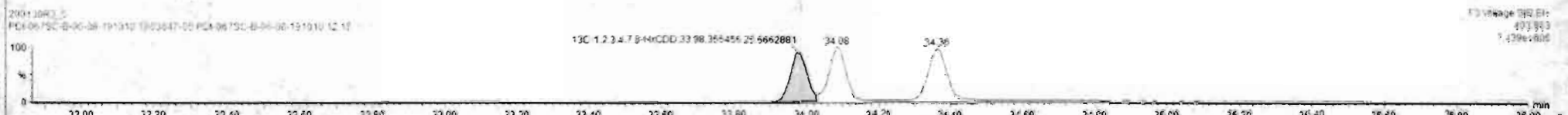
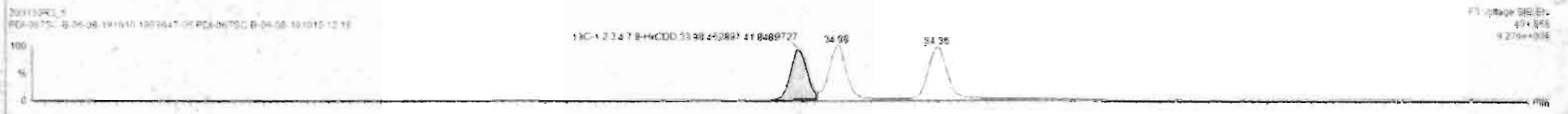
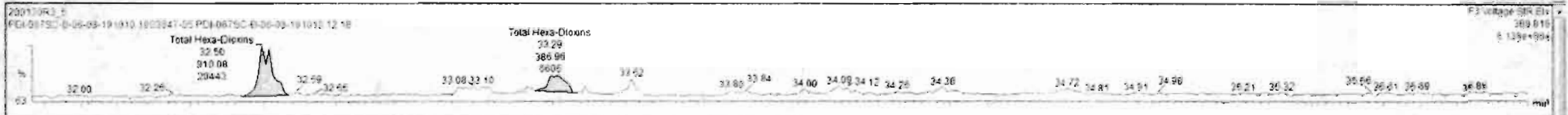
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200130R3_5 - 1903647.05 PDI-067SC-B-06-08 191010 12 18 PDI-067SC-B-06-08 191010

Name	Resp	RA	nry	RF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.6240	10.115			0.060	0.0445	0.116	
40 Total Penta-Dioxins				0.9116	10.115			0.0785	0.0536	0.132	
41 Total Hexa-Dioxins				0.7841	10.115			0.604	0.0855	0.064	

Name	RT	m1 Resp	m2 Resp	RA	nry	EMPC	Conc
1 Total Hexa-Dioxins	32.50	6.101e2	6.748e2	1.35	NO	0.45559	0.45559
2 Total Hexa-Dioxins	33.25	3.870e2	3.386e2	1.14	NO	0.20558	0.20658



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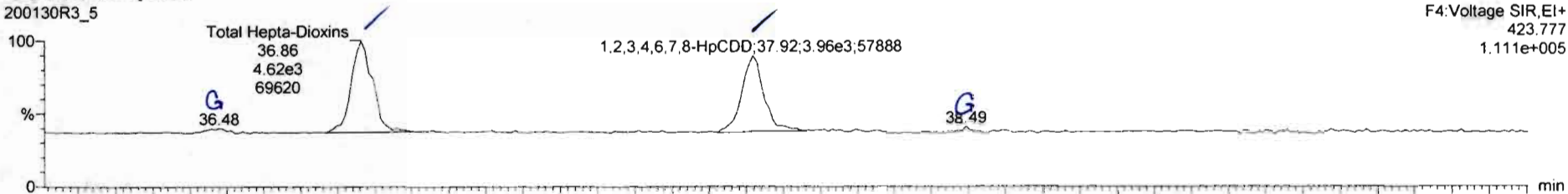
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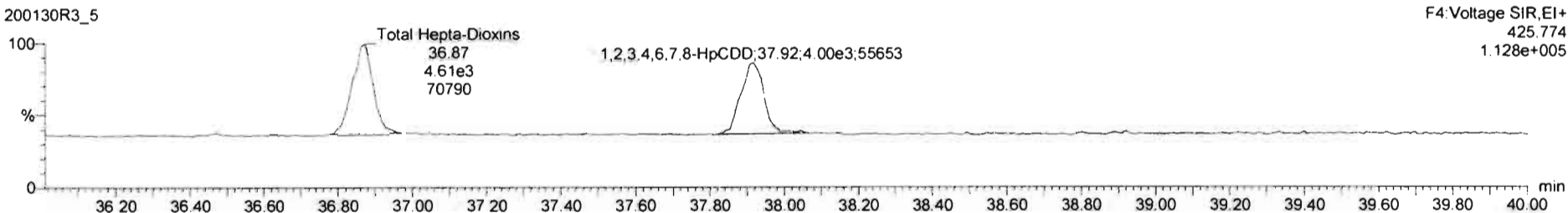
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1,2,3,4,6,7,8-HpCDD

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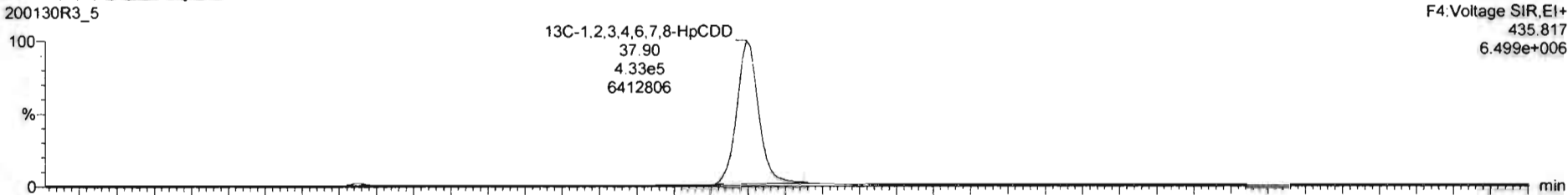


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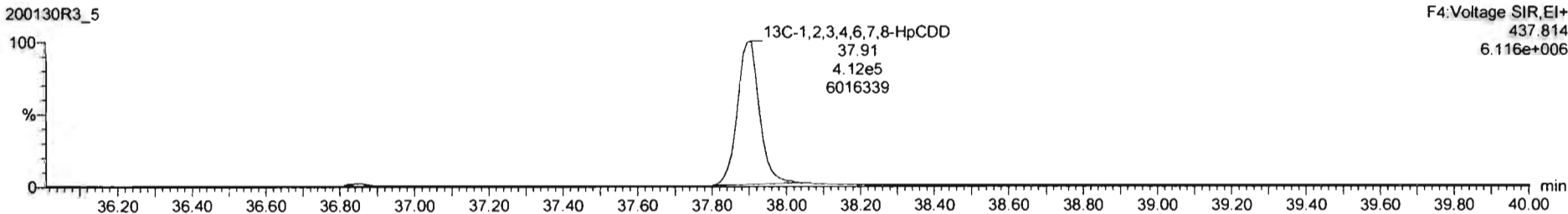


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200130R3_5



200130R3_5

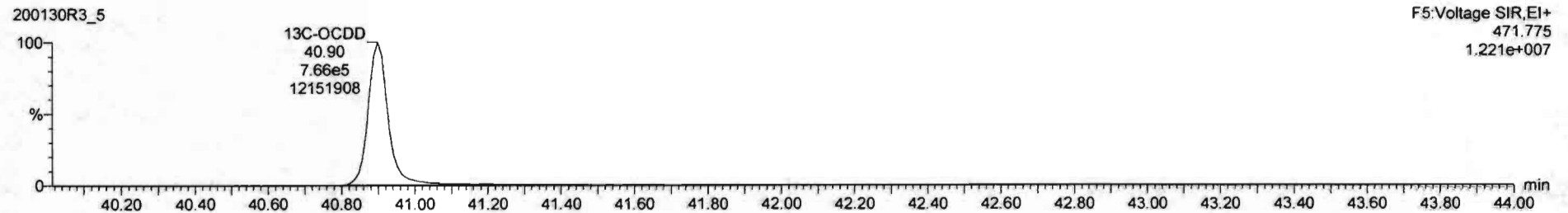
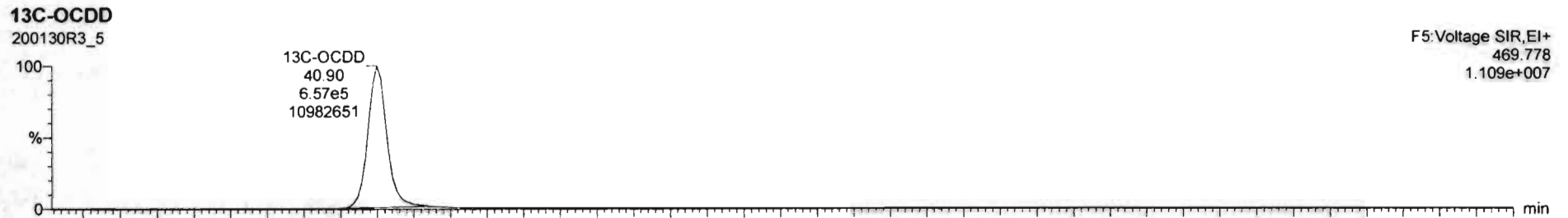
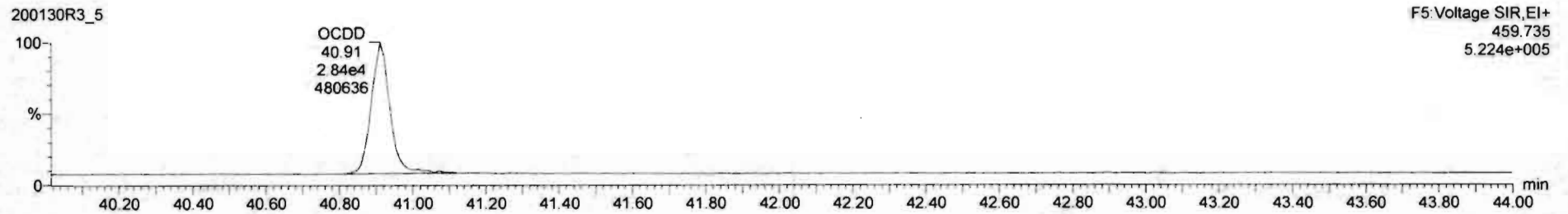
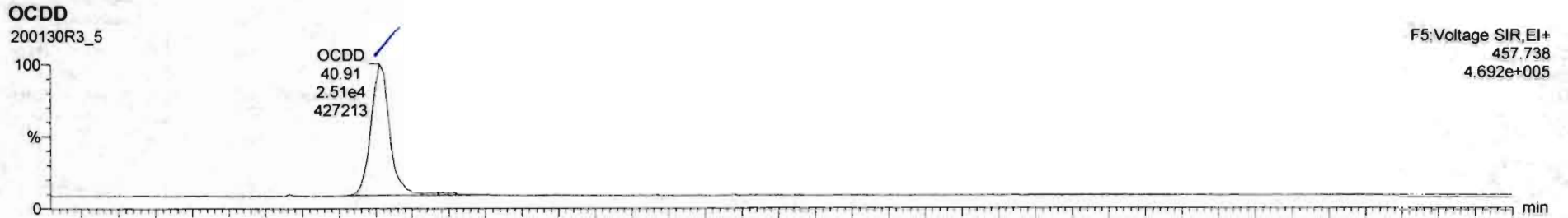


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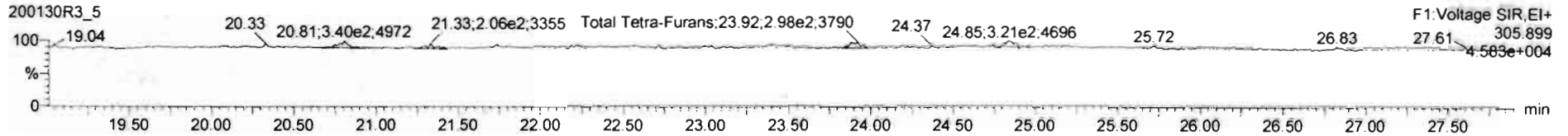
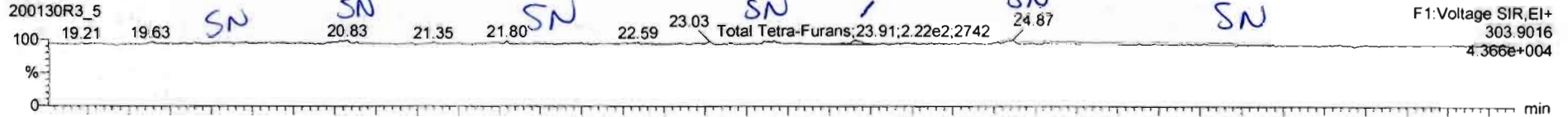
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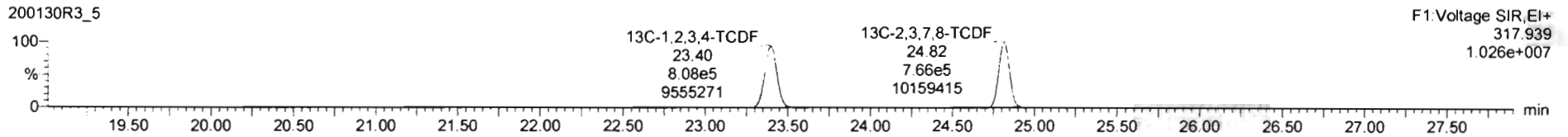
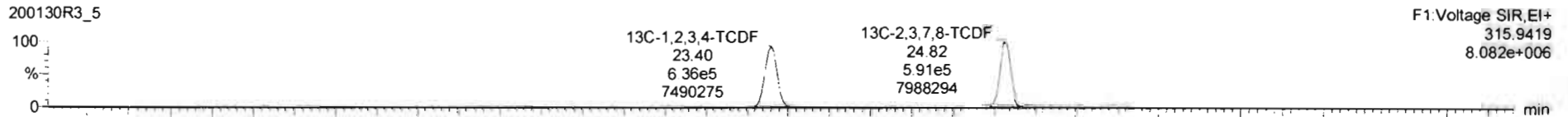
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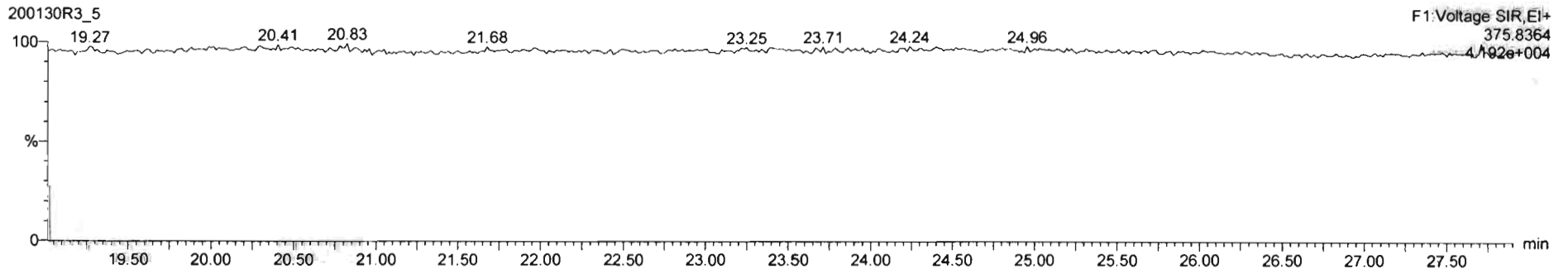
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13C-2,3,7,8-TCDF

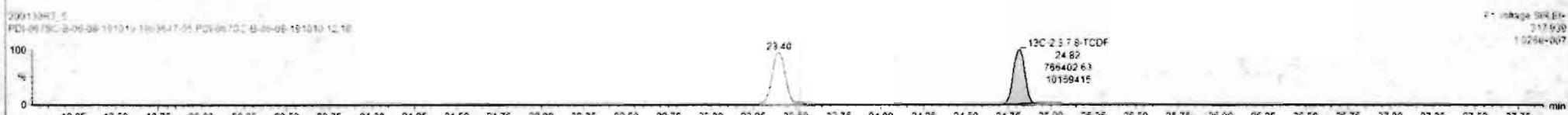
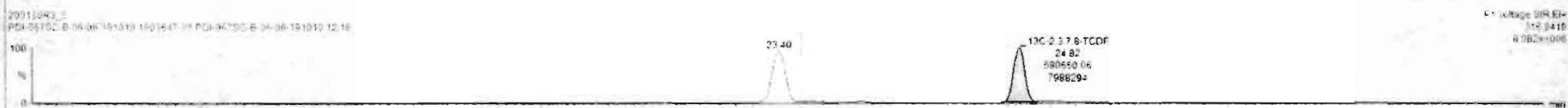
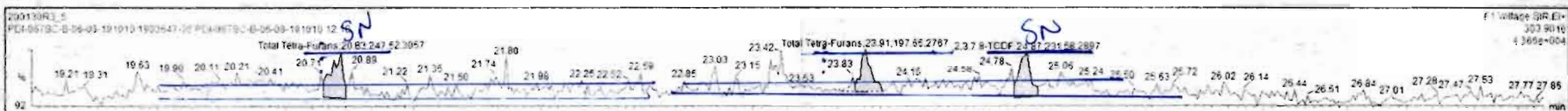


DPE1



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Oxins				0.7369	10.118			5.4E		0.135	5.4E
43 Total Tetra-Furans				0.5878	10.118			0.401		0.0961	0.401
44 1st Func. Penta-Furans				0.62E1	10.115					0.0169	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.83	2.475e2	3.086e2	0.80	NO	0.13781	0.13781
2 Total Tetra-Furans	23.51	1.977e2	2.577e2	0.66	NO	0.12277	0.12277
3 2,3,7,8-TCDF	24.87	2.316e2	3.345e2	0.69	NO	0.14028	0.14028



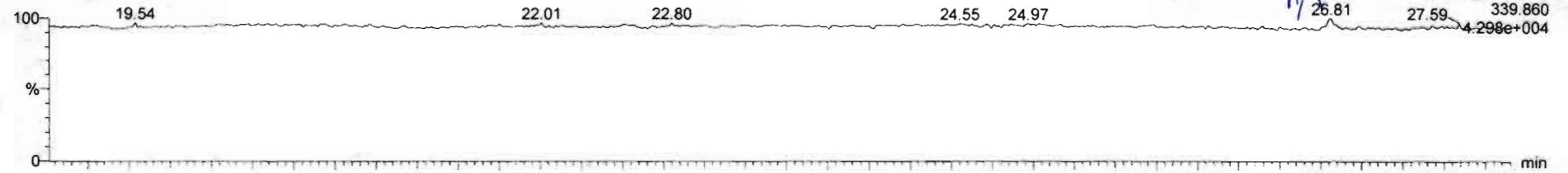
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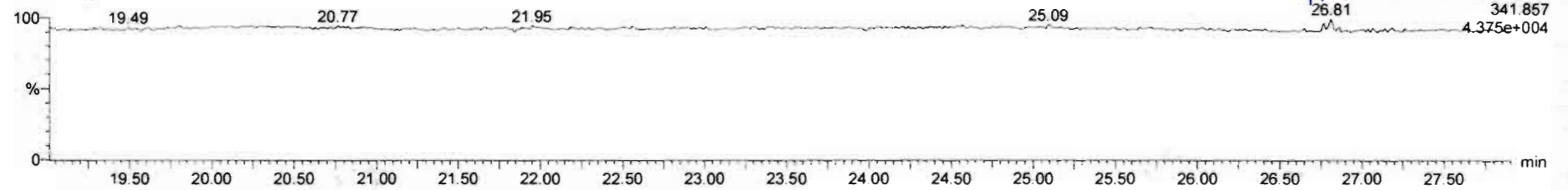
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1st Func. Penta-Furans

200130R3_5

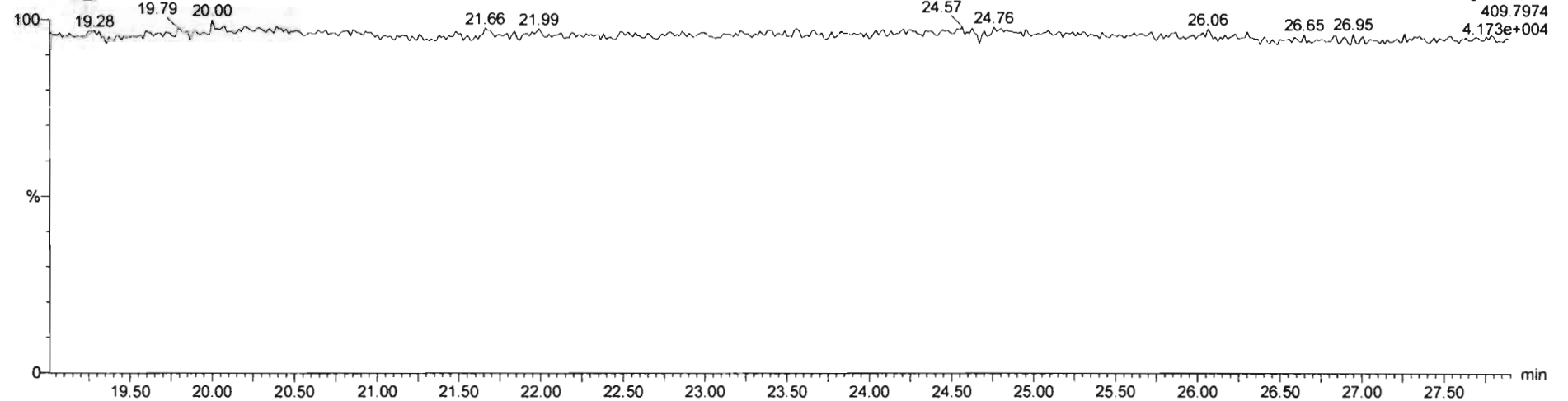


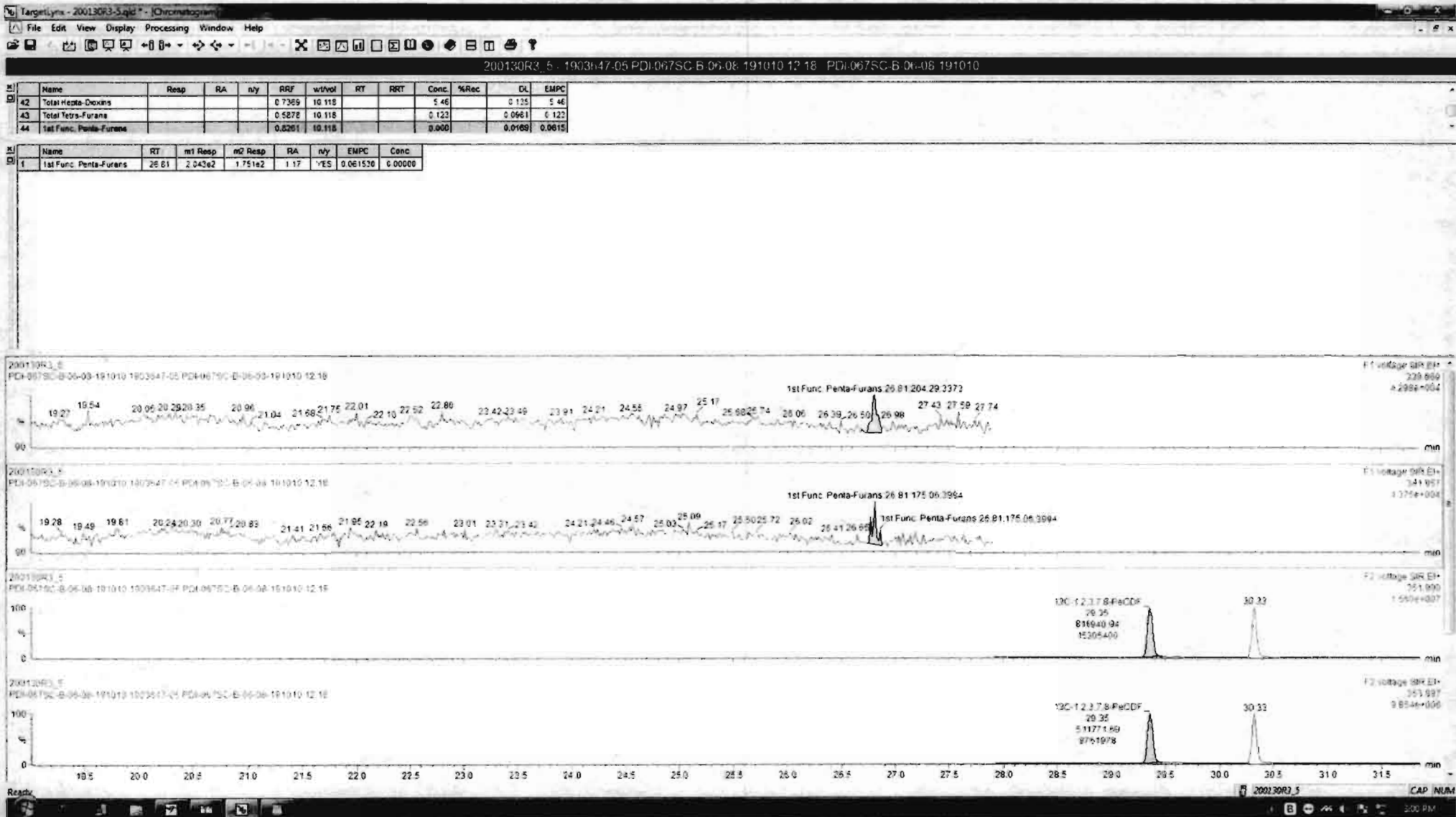
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DPE6

200130R3_5



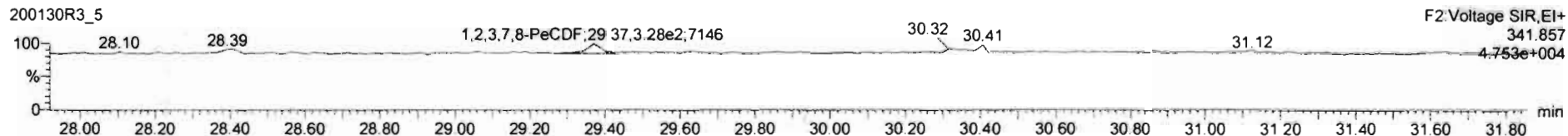
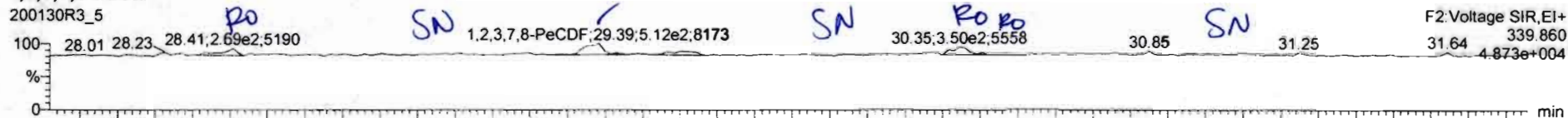


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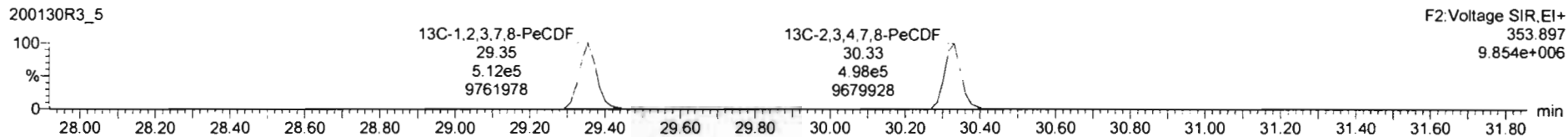
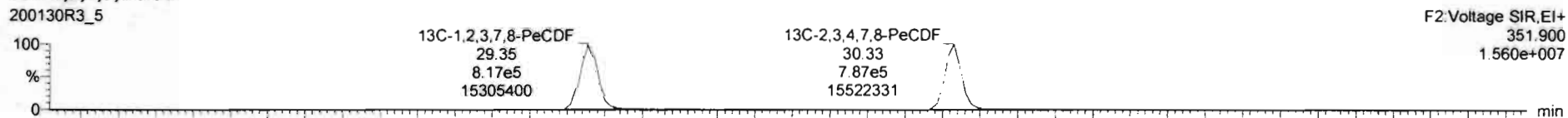
Last Altered: Friday, January 31, 2020 16:15:53 Pacific Standard Time
Printed: Friday, January 31, 2020 16:16:17 Pacific Standard Time

Name: 200130R3_5, Date: 31-Jan-2020, Time: 06:14:54, ID: 1903647-05 PDI-067SC-B-06-08-191010 12.18, Description: PDI-067SC-B-06-08-191010

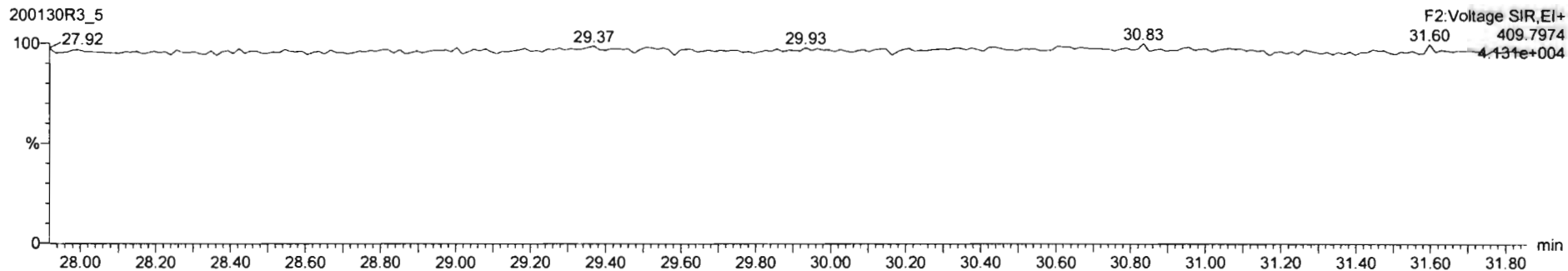
1,2,3,7,8-PeCDF



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



DPE2

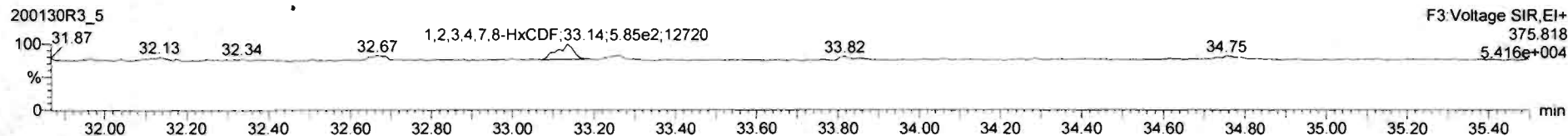


Dataset: Untitled

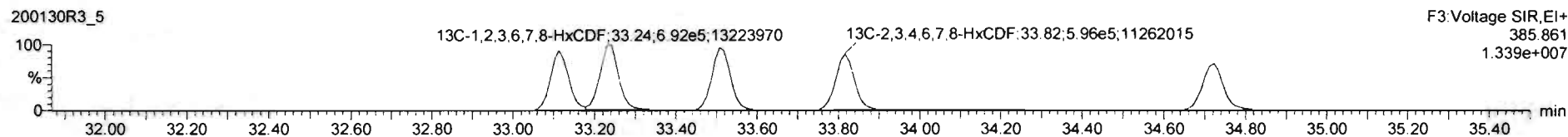
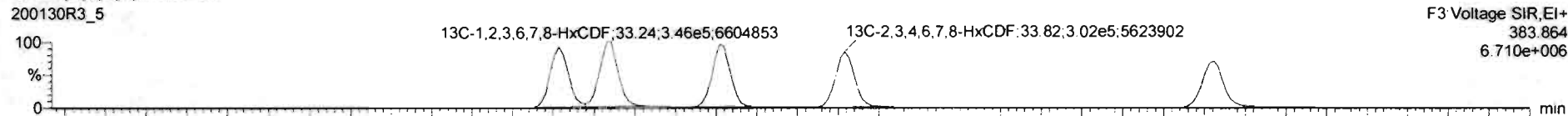
Last Altered: Friday, January 31, 2020 16:15:53 Pacific Standard Time
Printed: Friday, January 31, 2020 16:16:17 Pacific Standard Time

Name: 200130R3_5, Date: 31-Jan-2020, Time: 06:14:54, ID: 1903647-05 PDI-067SC-B-06-08-191010 12.18, Description: PDI-067SC-B-06-08-191010

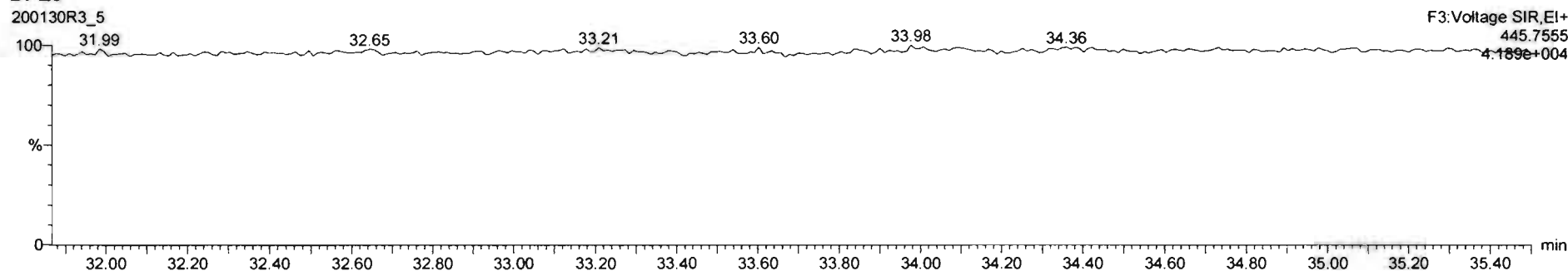
1,2,3,4,7,8-HxCDF

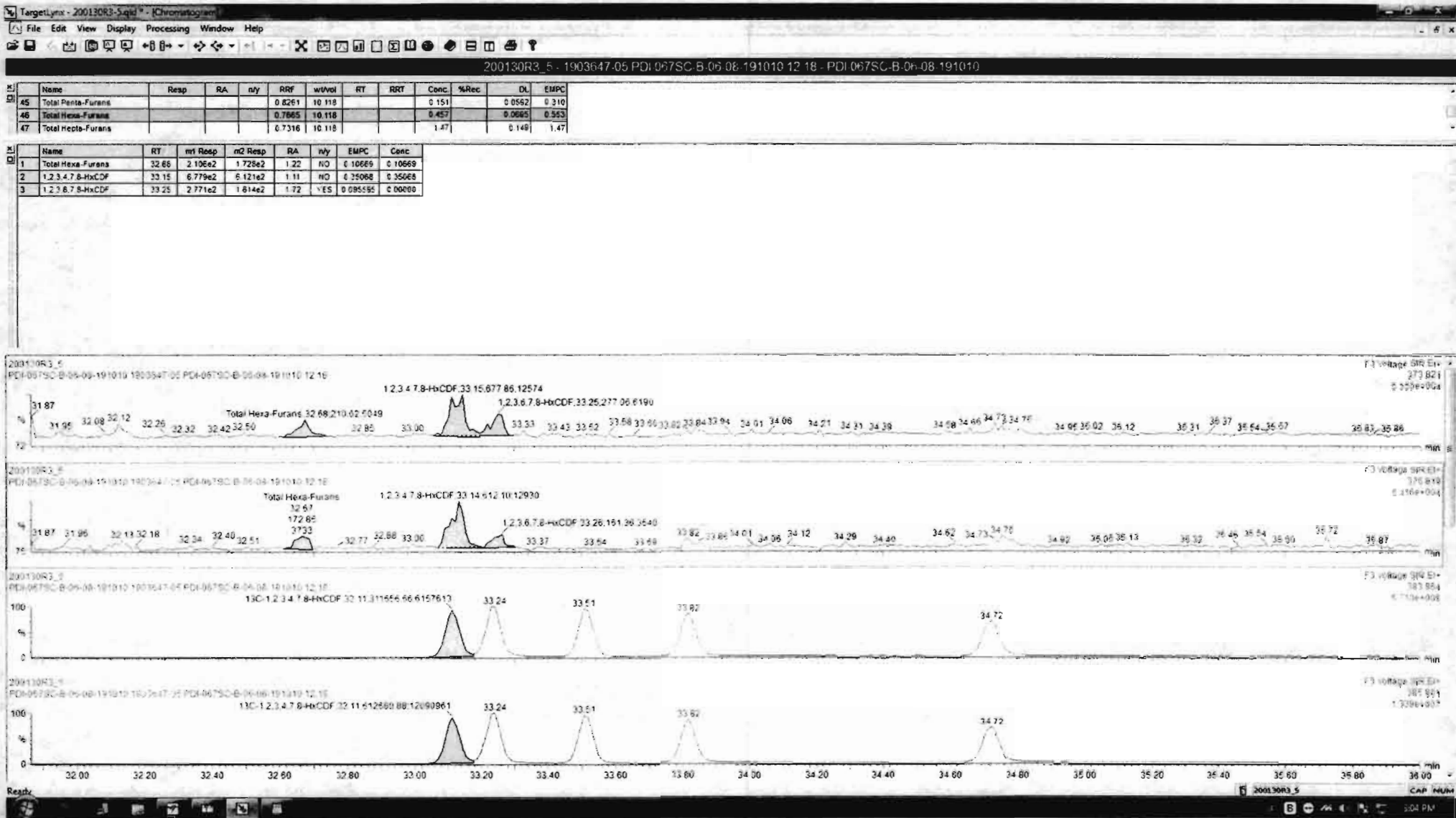


13C-1,2,3,4,7,8-HxCDF



DPE3





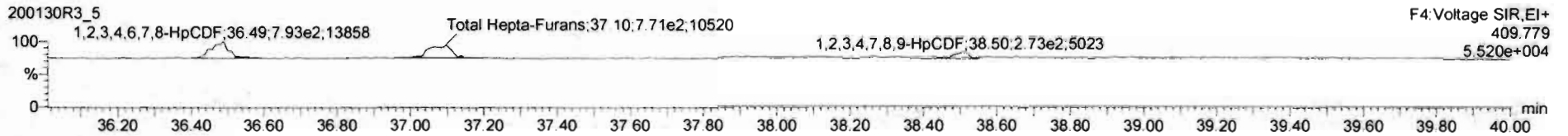
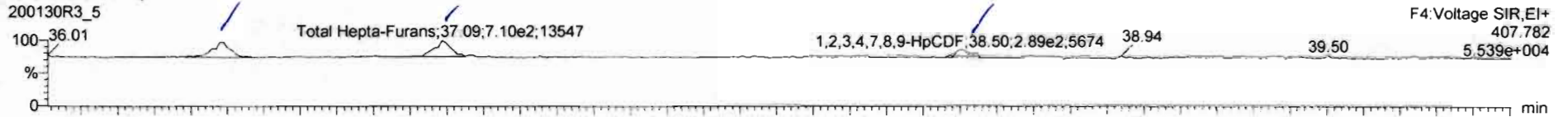
Dataset: Untitled

Last Altered: Friday, January 31, 2020 16:15:53 Pacific Standard Time

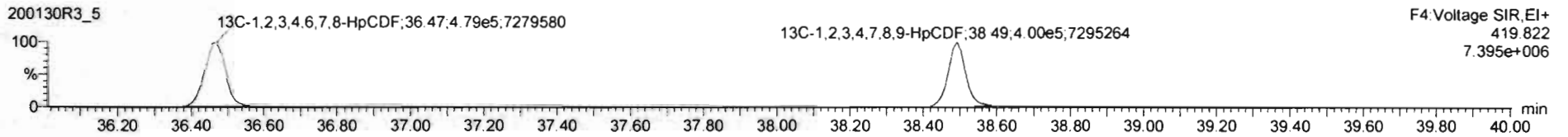
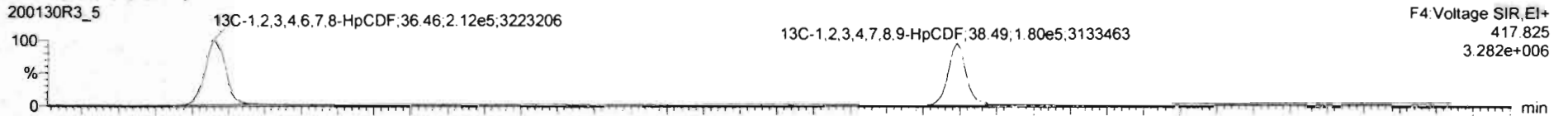
Printed: Friday, January 31, 2020 16:16:17 Pacific Standard Time

Name: 200130R3_5, Date: 31-Jan-2020, Time: 06:14:54, ID: 1903647-05 PDI-067SC-B-06-08-191010 12.18, Description: PDI-067SC-B-06-08-191010

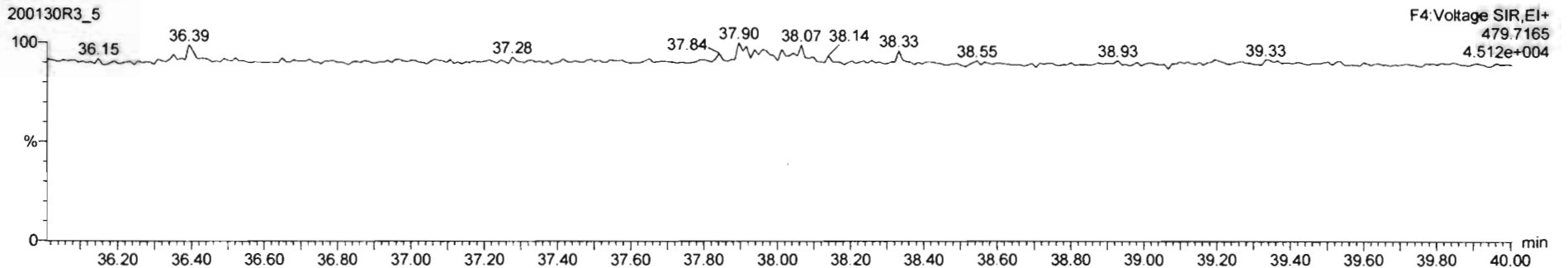
1,2,3,4,6,7,8-HpCDF

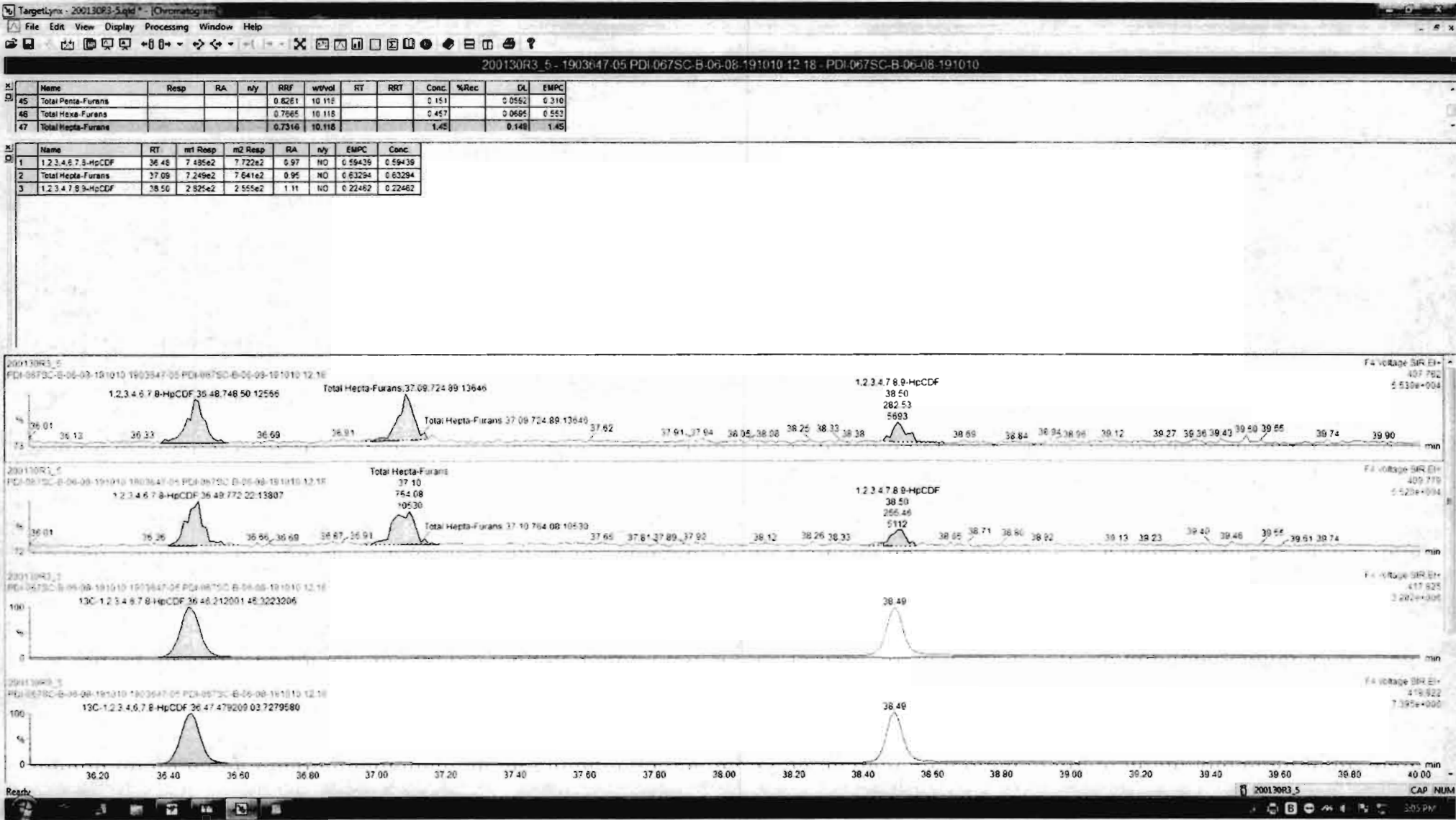


13C-1,2,3,4,6,7,8-HpCDF



DPE4

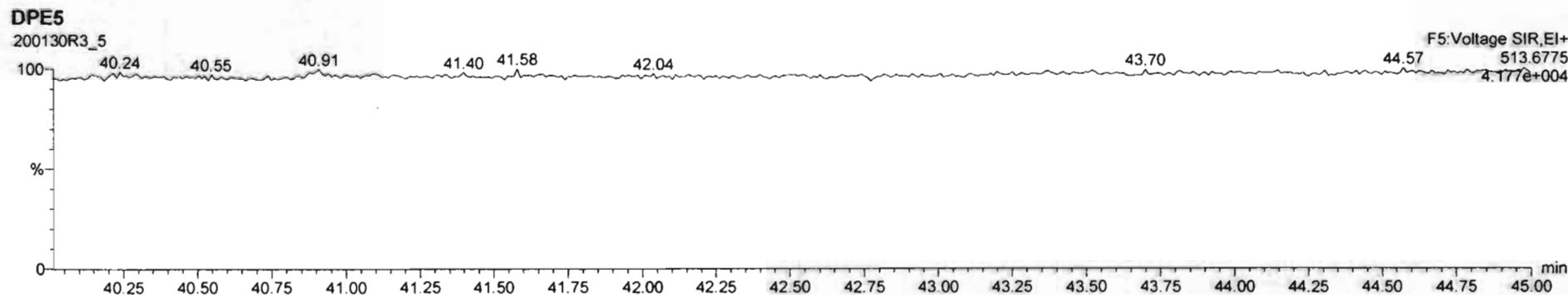
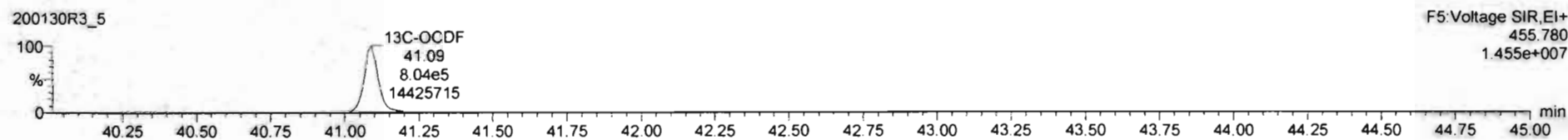
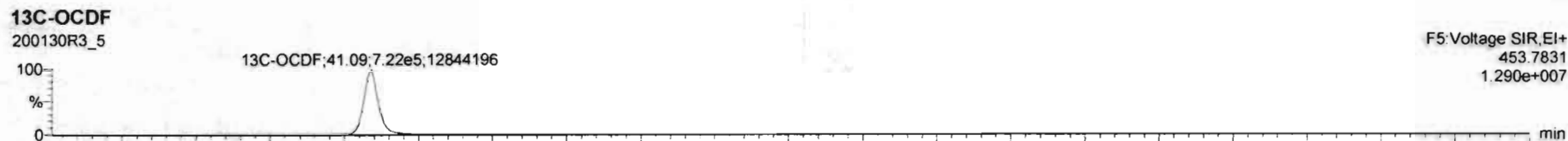
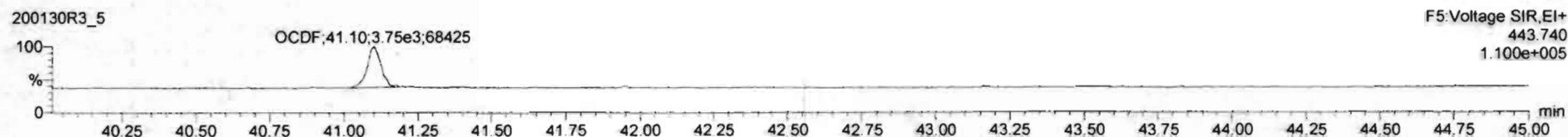




Dataset: Untitled

Last Altered: Friday, January 31, 2020 16:15:53 Pacific Standard Time
Printed: Friday, January 31, 2020 16:16:17 Pacific Standard Time

Name: 200130R3_5, Date: 31-Jan-2020, Time: 06:14:54, ID: 1903647-05 PDI-067SC-B-06-08-191010 12.18, Description: PDI-067SC-B-06-08-191010

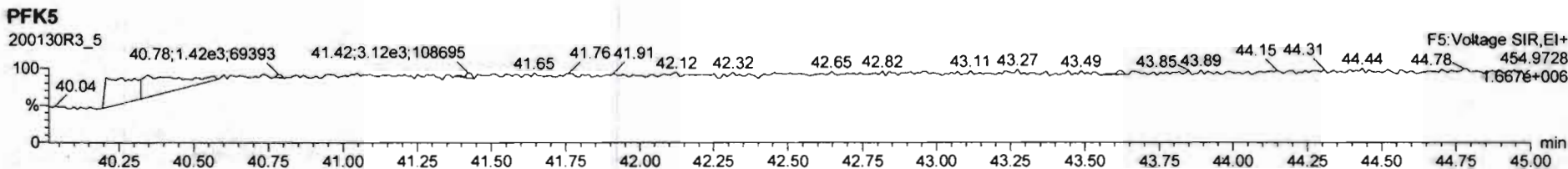
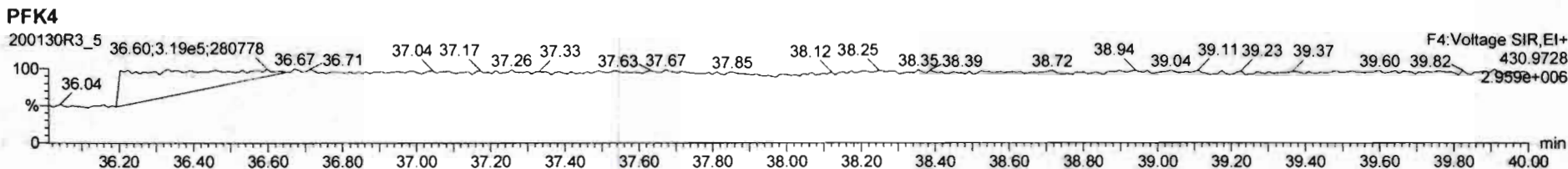
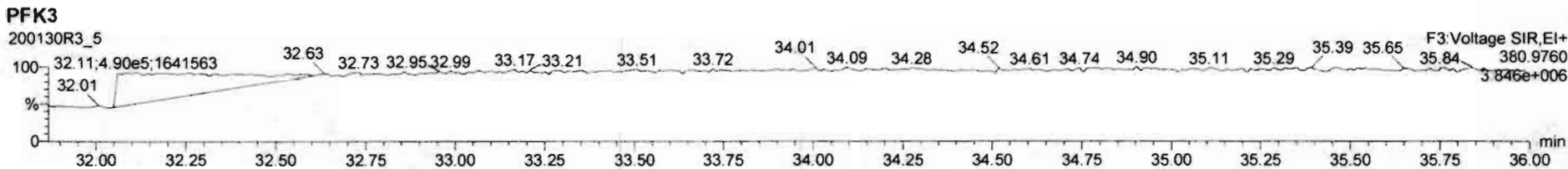
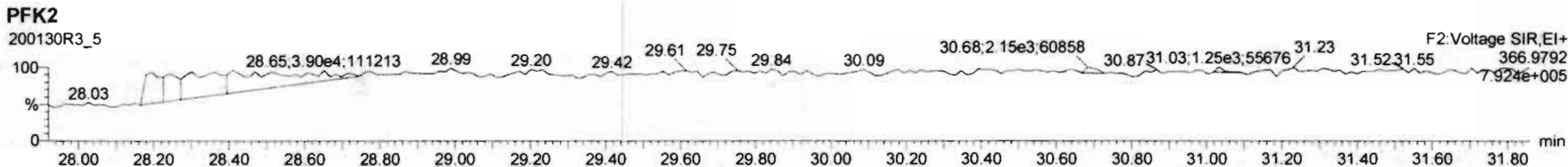
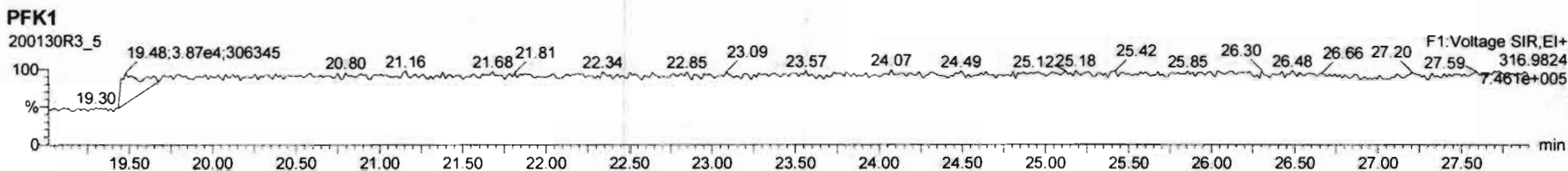


Dataset: Untitled

Last Altered: Friday, January 31, 2020 16:15:53 Pacific Standard Time

Printed: Friday, January 31, 2020 16:16:17 Pacific Standard Time

Name: 200130R3_5, Date: 31-Jan-2020, Time: 06:14:54, ID: 1903647-05 PDI-067SC-B-06-08-191010 12.18, Description: PDI-067SC-B-06-08-191010



CONFIRMATION

Dataset: U:\VG11.PRO\Results\200131K1\200131K1-27.qld

Last Altered: Saturday, February 01, 2020 08:36:14 Pacific Standard Time

Printed: Saturday, February 01, 2020 08:37:01 Pacific Standard Time

HC 2.1.2020

CT 02/05/2020

Method: U:\VG11.PRO\MethDB\tcdf.mdb 31 Jan 2020 07:42:36

Calibration: U:\VG11.PRO\CurveDB\db225_1613TCDFvg11-1-31-20.cdb 31 Jan 2020 13:49:37

Name: 200131K1_27, Date: 31-Jan-2020, Time: 23:44:04, ID: 1903647-02RE1 PDI-067SC-B-00-02-191010 18.9, Description: PDI-067SC-B-00-02-191010

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.83e6	0.78	NO	1.04	10.003	16.41	183.06		0.188
2	2 13C-2,3,7,8-TCDF	1.93e6	0.80	NO	1.02	10.003	16.40	176.40	88.2	0.215
3	3 13C-1,2,3,4-TCDF	2.13e6	0.78	NO	1.00	10.003	14.51	199.93	100	0.220
4	4 13C-1,2,3,4-TCDD	1.16e6	0.77	NO		10.003	15.08			

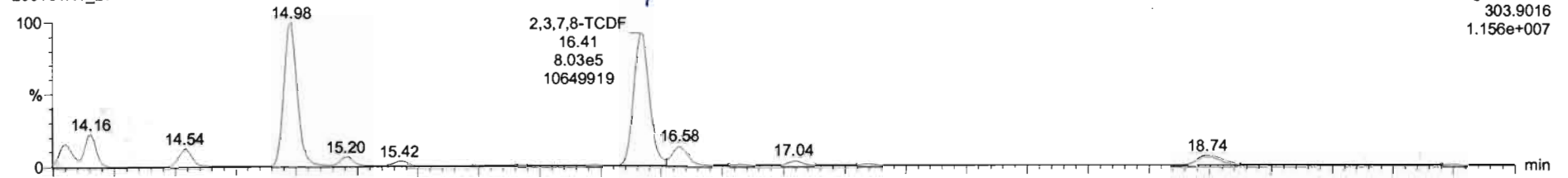
Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

Name: 200131K1_27, Date: 31-Jan-2020, Time: 23:44:04, ID: 1903647-02RE1 PDI-067SC-B-00-02-191010 18.9, Description: PDI-067SC-B-00-02-191010

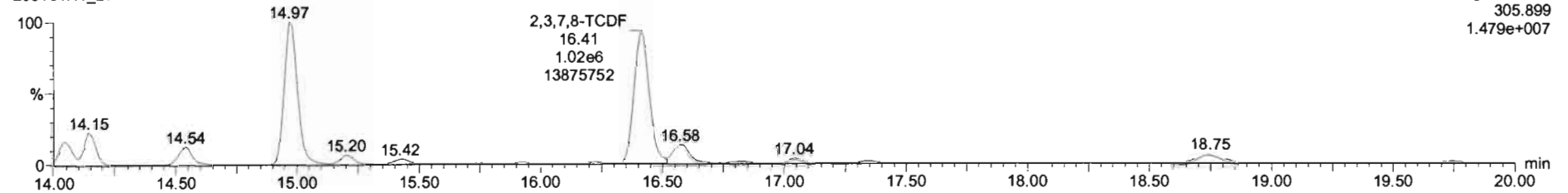
2,3,7,8-TCDF

200131K1_27



Voltage SIR,EI+
303.9016
1.156e+007

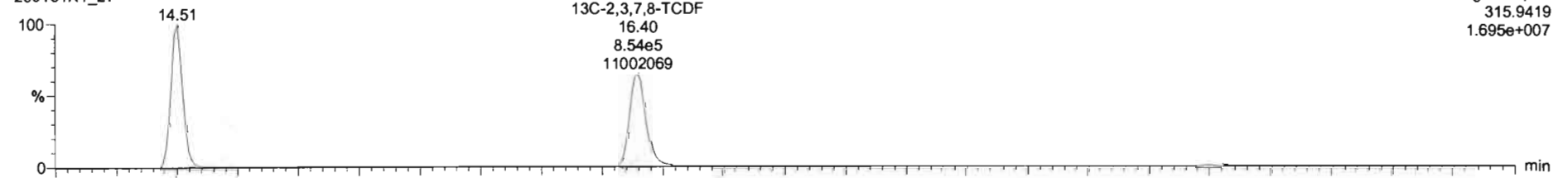
200131K1_27



Voltage SIR,EI+
305.899
1.479e+007

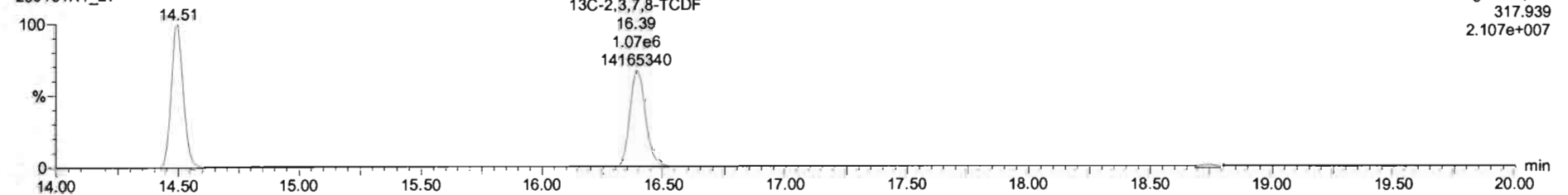
13C-2,3,7,8-TCDF

200131K1_27



Voltage SIR,EI+
315.9419
1.695e+007

200131K1_27



Voltage SIR,EI+
317.939
2.107e+007

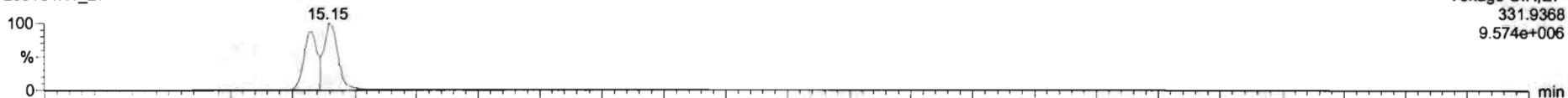
Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

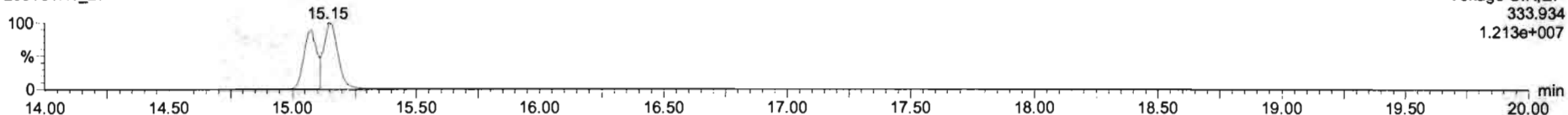
Name: 200131K1_27, Date: 31-Jan-2020, Time: 23:44:04, ID: 1903647-02RE1 PDI-067SC-B-00-02-191010 18.9, Description: PDI-067SC-B-00-02-191010

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

200131K1_27

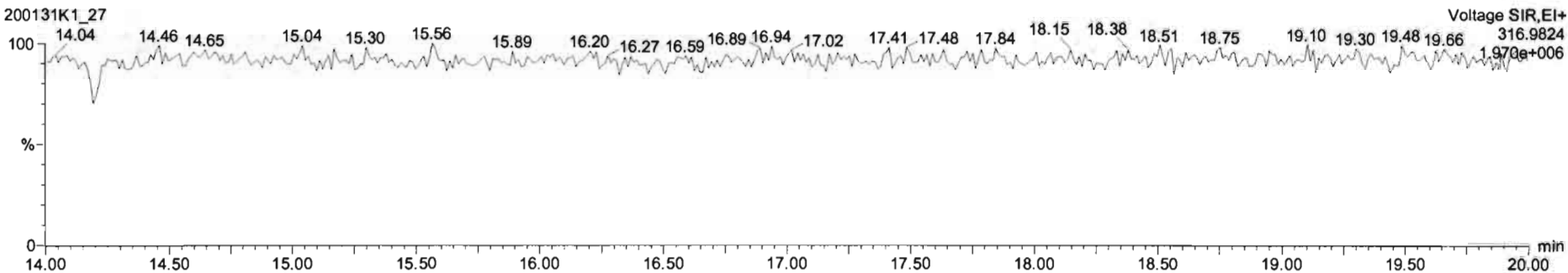


200131K1_27



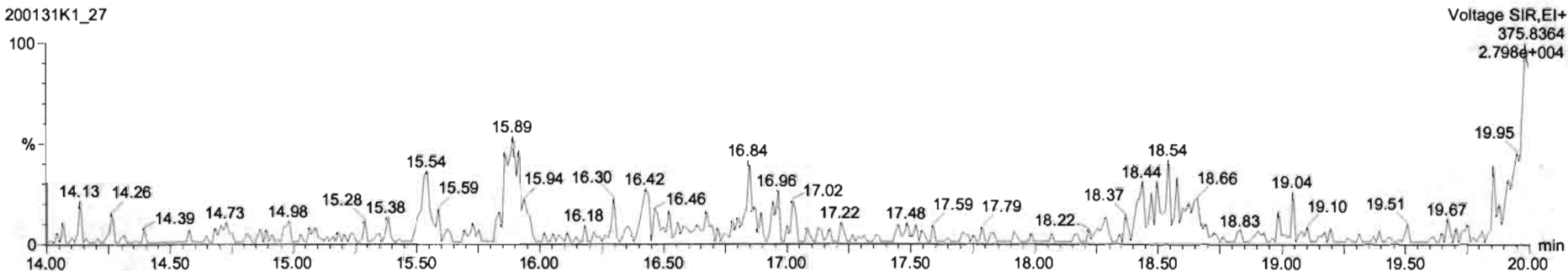
PFK1

200131K1_27



DPE1

200131K1_27



Dataset: U:\VG11.PRO\Results\200131K1\200131K1-11.qld

Last Altered: Saturday, February 01, 2020 08:35:07 Pacific Standard Time

Printed: Saturday, February 01, 2020 08:35:29 Pacific Standard Time

Feb 1 2020

CT 02/05/2020

Method: U:\VG11.PRO\MethDB\tcdf.mdb 31 Jan 2020 07:42:36

Calibration: U:\VG11.PRO\CurveDB\db225_1613TCDFvg11-1-31-20.cdb 31 Jan 2020 13:49:37

Name: 200131K1_11, Date: 31-Jan-2020, Time: 15:20:42, ID: 1903647-03RE1 PDI-067SC-B-02-04-191010 17.58, Description: PDI-067SC-B-02-04-191010

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.91e3	0.75	NO	1.04	10.157	16.40	0.32587		0.0625
2	2 13C-2,3,7,8-TCDF	2.86e6	0.78	NO	1.02	10.157	16.39	225.66	115	0.192
3	3 13C-1,2,3,4-TCDF	2.45e6	0.79	NO	1.00	10.157	14.49	196.91	100	0.197
4	4 13C-1,2,3,4-TCDD	1.65e6	0.78	NO		10.157	15.06			

Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time

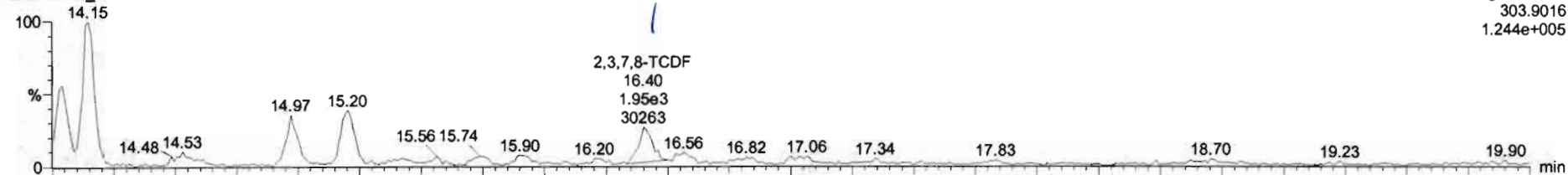
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

Name: 200131K1_11, Date: 31-Jan-2020, Time: 15:20:42, ID: 1903647-03RE1 PDI-067SC-B-02-04-191010 17.58, Description: PDI-067SC-B-02-04-191010

2,3,7,8-TCDF

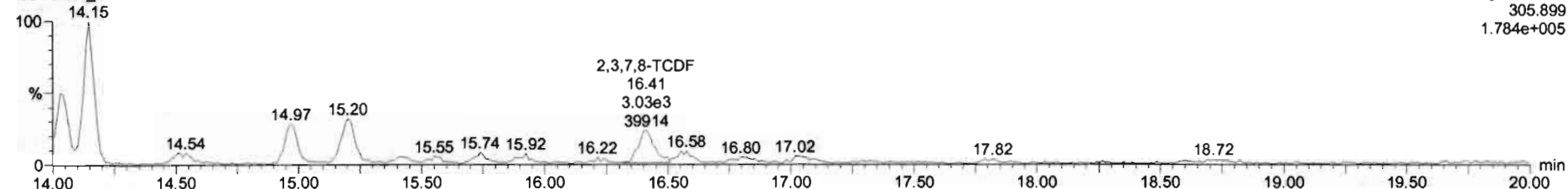
200131K1_11

Voltage SIR,EI+
303.9016
1.244e+005



200131K1_11

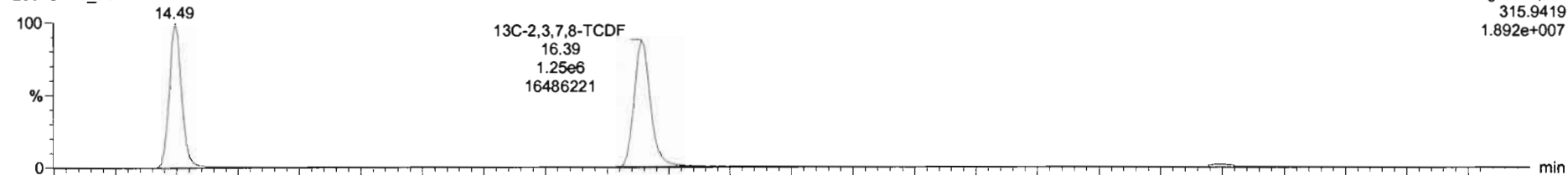
Voltage SIR,EI+
305.899
1.784e+005



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

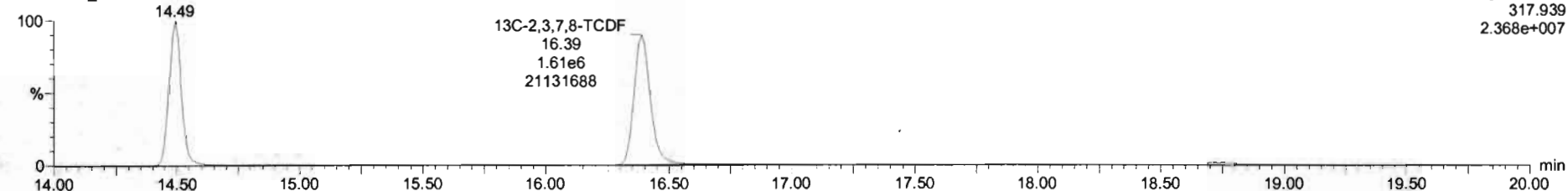
200131K1_11

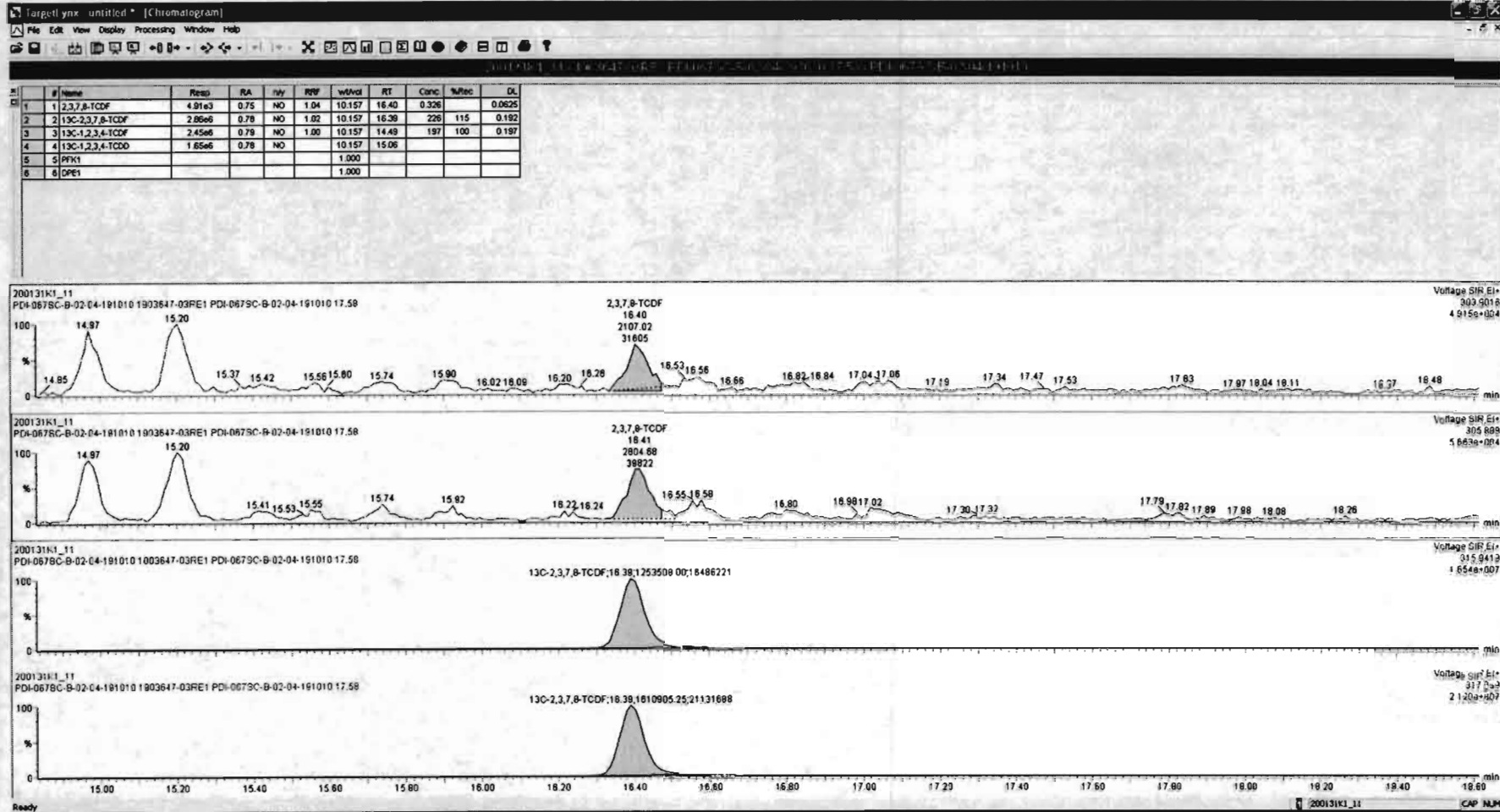
Voltage SIR,EI+
315.9419
1.892e+007



200131K1_11

Voltage SIR,EI+
317.939
2.368e+007





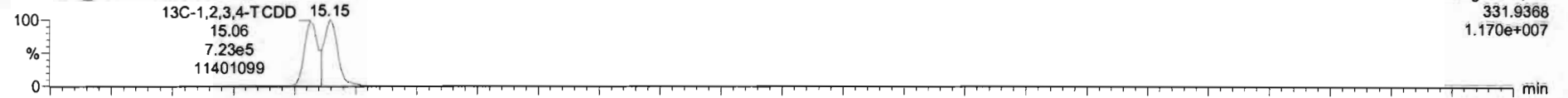
Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

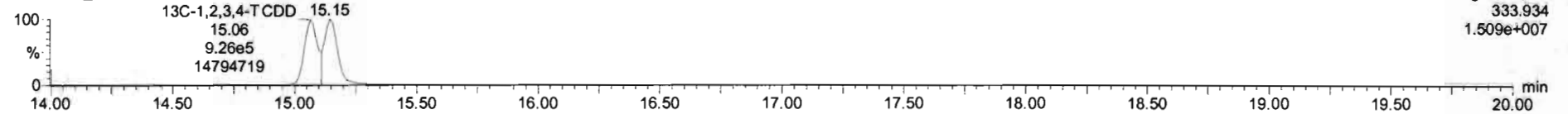
Name: 200131K1_11, Date: 31-Jan-2020, Time: 15:20:42, ID: 1903647-03RE1 PDI-067SC-B-02-04-191010 17.58, Description: PDI-067SC-B-02-04-191010

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

200131K1_11

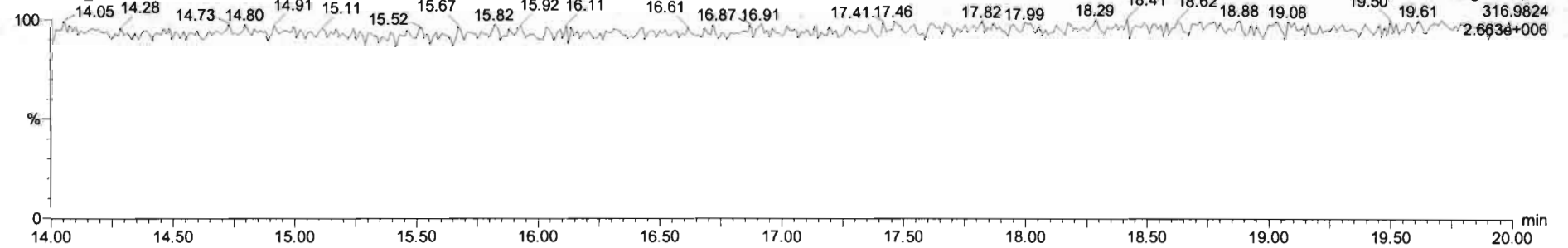


200131K1_11



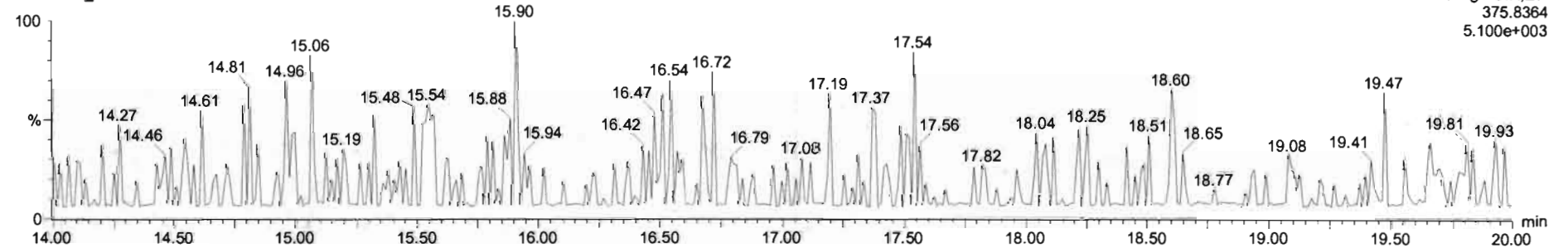
PFK1

200131K1_11



DPE1

200131K1_11



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200130R2-1

Reviewed By: CT 02/03/2020
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>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<input type="checkbox"/> <u>Y</u>	<input type="checkbox"/> <u>N</u>
- Bottle position verified?	<input type="checkbox"/>	<input type="checkbox"/>

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:
 (A) END RES CHECK HAD ONE MASS <10K

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-1.qld

Last Altered: Thursday, January 30, 2020 15:24:44 Pacific Standard Time
Printed: Thursday, January 30, 2020 15:25:55 Pacific Standard Time

BBB 01/30/2020

0702/03/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R2_1, Date: 30-Jan-2020, Time: 14:14:22, ID: ST200130R2_1 1613 CS3 1911604, Description: 1613 CS3 1911604

#	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	8.34e4	7.87e5	0.79	NO	0.824	25.75	25.75	NO	1.001	1.001	12.856	129	NO
2	2 1,2,3,7,8-PeCDD	2.78e5	5.68e5	0.65	NO	0.912	30.67	30.67	NO	1.001	1.001	53.631	107	NO
3	3 1,2,3,4,7,8-HxCDD	2.86e5	5.80e5	1.24	NO	0.870	34.01	34.01	NO	1.000	1.000	56.512	113	NO
4	4 1,2,3,6,7,8-HxCDD	3.03e5	6.75e5	1.21	NO	0.784	34.09	34.12	NO	1.000	1.001	57.258	115	NO
5	5 1,2,3,7,8,9-HxCDD	2.82e5	6.61e5	1.23	NO	0.798	34.40	34.39	NO	1.001	1.001	53.475	107	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.25e5	5.35e5	1.02	NO	0.737	37.93	37.93	NO	1.000	1.000	57.133	114	NO
7	7 OCDD	4.44e5	9.51e5	0.88	NO	0.800	40.91	40.92	NO	1.000	1.000	116.76	117	NO
8	8 2,3,7,8-TCDF	7.97e4	1.13e6	0.71	NO	0.588	24.88	24.87	NO	1.001	1.001	11.974	120	NO
9	9 1,2,3,7,8-PeCDF	4.15e5	8.96e5	1.50	NO	0.826	29.39	29.39	NO	1.001	1.001	56.008	112	NO
10	10 2,3,4,7,8-PeCDF	4.16e5	8.57e5	1.55	NO	0.850	30.38	30.36	NO	1.001	1.001	57.067	114	NO
11	11 1,2,3,4,7,8-HxCDF	2.84e5	6.48e5	1.17	NO	0.787	33.12	33.15	NO	1.000	1.001	55.786	112	NO
12	12 1,2,3,6,7,8-HxCDF	3.16e5	7.74e5	1.18	NO	0.720	33.25	33.26	NO	1.000	1.001	56.783	114	NO
13	13 2,3,4,6,7,8-HxCDF	3.05e5	7.04e5	1.20	NO	0.766	33.86	33.84	NO	1.001	1.000	56.424	113	NO
14	14 1,2,3,7,8,9-HxCDF	2.46e5	6.28e5	1.17	NO	0.709	34.73	34.74	NO	1.000	1.000	55.355	111	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.17e5	5.43e5	0.96	NO	0.732	36.52	36.49	NO	1.001	1.000	54.696	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.88e5	4.08e5	0.98	NO	0.816	38.50	38.51	NO	1.000	1.000	56.617	113	NO
17	17 OCDF	4.35e5	1.08e6	0.86	NO	0.639	41.10	41.12	NO	1.000	1.001	126.49	126	NO
18	18 13C-2,3,7,8-TCDD	7.87e5	6.33e5	0.79	NO	1.12	25.74	25.72	NO	1.026	1.025	111.49	111	NO
19	19 13C-1,2,3,7,8-PeCDD	5.68e5	6.33e5	0.65	NO	0.841	30.49	30.65	NO	1.215	1.222	106.60	107	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.80e5	7.16e5	1.25	NO	0.938	34.00	34.00	NO	1.014	1.014	86.399	86.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.75e5	7.16e5	1.26	NO	1.07	34.10	34.09	NO	1.017	1.017	88.410	88.4	NO
22	22 13C-1,2,3,7,8,9-HxCDD	6.61e5	7.16e5	1.22	NO	1.03	34.40	34.37	NO	1.026	1.025	89.582	89.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.35e5	7.16e5	1.02	NO	0.710	37.96	37.92	NO	1.132	1.131	105.27	105	NO
24	24 13C-OCDD	9.51e5	7.16e5	0.90	NO	0.601	40.84	40.91	NO	1.218	1.220	220.96	110	NO
25	25 13C-2,3,7,8-TCDF	1.13e6	1.04e6	0.77	NO	1.04	24.92	24.85	NO	0.993	0.990	104.97	105	NO
26	26 13C-1,2,3,7,8-PeCDF	8.96e5	1.04e6	1.55	NO	0.917	29.26	29.37	NO	1.166	1.171	93.904	93.9	NO
27	27 13C-2,3,4,7,8-PeCDF	8.57e5	1.04e6	1.56	NO	0.903	30.21	30.35	NO	1.204	1.209	91.214	91.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.48e5	7.16e5	0.52	NO	0.861	33.13	33.12	NO	0.988	0.988	105.02	105	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.74e5	7.16e5	0.52	NO	1.05	33.23	33.24	NO	0.991	0.991	103.19	103	NO
30	30 13C-2,3,4,6,7,8-HxCDF	7.04e5	7.16e5	0.52	NO	0.946	33.83	33.83	NO	1.009	1.009	103.98	104	NO
31	31 13C-1,2,3,7,8,9-HxCDF	6.28e5	7.16e5	0.52	NO	0.816	34.74	34.73	NO	1.036	1.036	107.50	107	NO

Dataset: U:\VG12.PRO\Results\200130R2\200130R2-1.qld

Last Altered: Thursday, January 30, 2020 15:24:44 Pacific Standard Time
Printed: Thursday, January 30, 2020 15:25:55 Pacific Standard Time

Name: 200130R2_1, Date: 30-Jan-2020, Time: 14:14:22, ID: ST200130R2_1 1613 CS3 1911604, Description: 1613 CS3 1911604

#	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	5.43e5	7.16e5	0.43	NO	0.589	36.48	36.48	NO	1.088	1.088	128.78	129	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.08e5	7.16e5	0.43	NO	0.448	38.49	38.50	NO	1.148	1.148	127.01	127	NO
34	34 13C-OCDF	1.08e6	7.16e5	0.87	NO	0.586	41.07	41.10	NO	1.225	1.226	256.37	128	NO
35	35 37Cl-2,3,7,8-TCDD	7.58e4	6.33e5			1.09	25.77	25.75	NO	1.027	1.026	11.035	110	NO
36	36 13C-1,2,3,4-TCDD	6.33e5	6.33e5	0.78	NO	1.00	25.08	25.09	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.04e6	1.04e6	0.79	NO	1.00	23.42	23.43	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.16e5	7.16e5	0.51	NO	1.00	33.52	33.53	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		7.87e5			0.824	24.62		NO	0.000		105.07		NO
40	40 Total Penta-Dioxins		5.68e5			0.912	29.96		NO	0.000		248.36		NO
41	41 Total Hexa-Dioxins		0.00e0			0.784	33.63		NO	0.000		271.52		NO
42	42 Total Hepta-Dioxins		5.35e5			0.737	37.64		NO	0.000		151.84		NO
43	43 Total Tetra-Furans		1.13e6			0.588	23.61		NO	0.000		64.681		NO
44	44 1st Func. Penta-Furans		0.00e0			0.826	27.09		NO	0.000		97.497		NO
45	45 Total Penta-Furans		0.00e0			0.826	29.27		NO	0.000		200.91		NO
46	46 Total Hexa-Furans		0.00e0			0.766	33.56		NO	0.000		315.01		NO
47	47 Total Hepta-Furans		0.00e0			0.732	37.83		NO	0.000		111.31		NO

Dataset: Untitled

Last Altered: Thursday, January 30, 2020 15:27:11 Pacific Standard Time

Printed: Thursday, January 30, 2020 15:27:21 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R2_1, Date: 30-Jan-2020, Time: 14:14:22, ID: ST200130R2_1 1613 CS3 1911604, Description: 1613 CS3 1911604

	# Name	RT
1	1 1,3,6,8-TCDD (First)	21.80
2	2 1,2,8,9-TCDD (Last)	26.69
3	3 1,2,4,7,9-PeCDD (First)	28.47
4	4 1,2,3,8,9-PeCDD (Last)	31.05
5	5 1,2,4,6,7,9-HxCDD (First)	32.52
6	6 1,2,3,7,8,9-HxCDD (Last)	34.39
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.87
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.93
9	9 1,3,6,8-TCDF (First)	19.69
10	10 1,2,8,9-TCDF (Last)	26.84
11	11 1,3,4,6,8-PeCDF (First)	26.81
12	12 1,2,3,8,9-PeCDF (Last)	31.29
13	13 1,2,3,4,6,8-HxCDF (First)	31.97
14	14 1,2,3,7,8,9-HxCDF (Last)	34.74
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.49
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.51

Dataset: Untitled

Last Altered: Friday, January 31, 2020 09:48:55 Pacific Standard Time

Printed: Friday, January 31, 2020 09:49:01 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_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

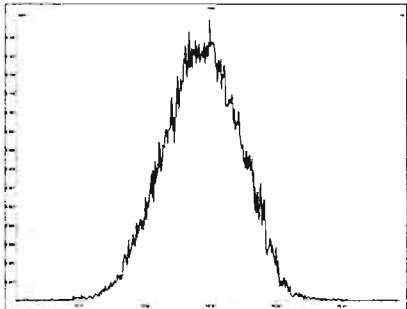
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200130R2_1	ST200130R2_1 1613 CS3 19I1604	30-Jan-20	14:14:22
2	200130R2_2	B0A0133-BS1 OPR 1	30-Jan-20	15:14:19
3	200130R2_3	B0A0016-BS1 OPR 10	30-Jan-20	16:00:38
4	200130R2_4	SOLVENT BLANK	30-Jan-20	16:47:35
5	200130R2_5	B0A0133-BLK1 Method Blank 1	30-Jan-20	17:34:32
6	200130R2_6	B0A0016-BLK1 Method Blank 10	30-Jan-20	18:21:31
7	200130R2_7	1904210-01 PDI-FB-1911191346 0.99738	30-Jan-20	19:08:32
8	200130R2_8	1904210-02 PDI-RB-1911191254 1.01128	30-Jan-20	19:55:30
9	200130R2_9	1904161-20 PDI-071SC-A-09-10-191001 16.47	30-Jan-20	20:42:27
10	200130R2_10	1904161-13@5X PDI-064SC-A-00-01-190929 ...	30-Jan-20	21:29:27
11	200130R2_11	1903647-01 PDI-045SC-B-04-06-191010 10.99	30-Jan-20	22:16:27
12	200130R2_12	1903647-02 PDI-067SC-B-00-02-191010 18.9	30-Jan-20	23:03:32
13	200130R2_13	1903647-03 PDI-067SC-B-02-04-191010 17.58	30-Jan-20	23:50:32
14	200130R2_14	1903647-04 PDI-067SC-B-04-06-191010 15.56	31-Jan-20	00:37:32
15	200130R2_15	1904207-04RE1 PDI-076SC-A-05-06-191013 ...	31-Jan-20	01:24:32

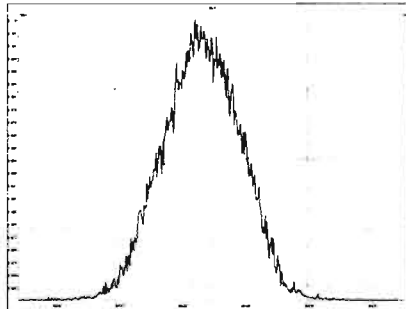
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, January 30, 2020 14:07:36 Pacific Standard Time

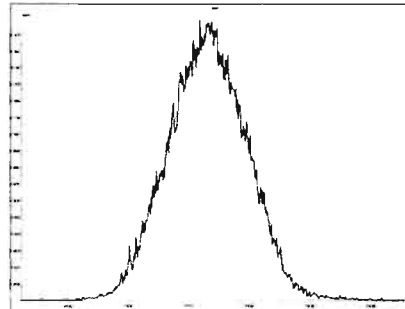
M 292.9824 R 10680



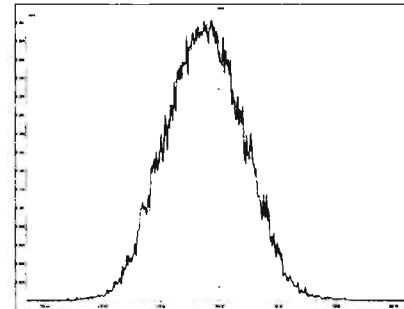
M 304.9824 R 11312



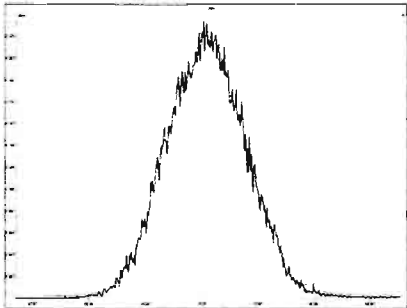
M 318.9792 R 10915



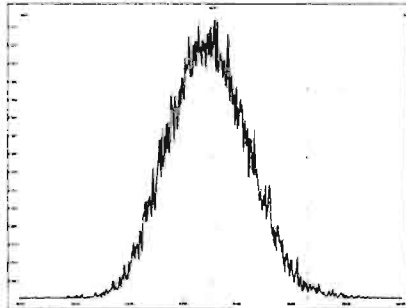
M 330.9792 R 10545



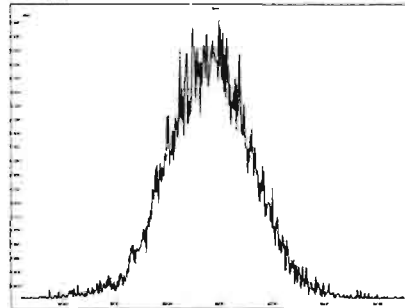
M 342.9792 R 10460



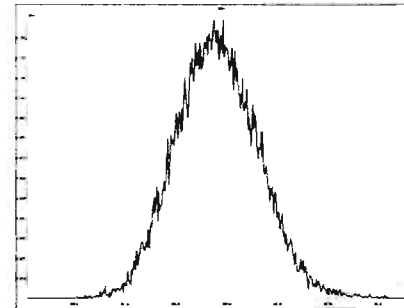
M 354.9792 R 10867



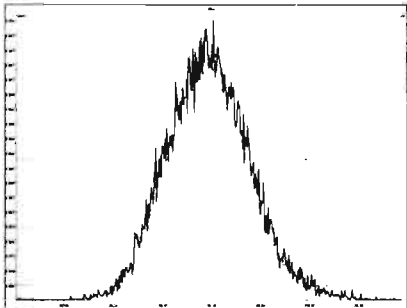
M 366.9792 R 10036



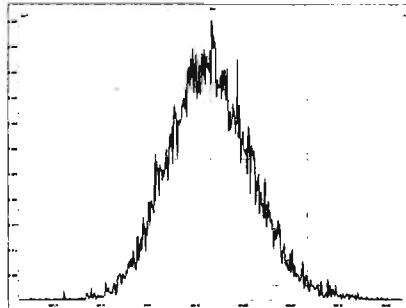
M 380.9760 R 10637



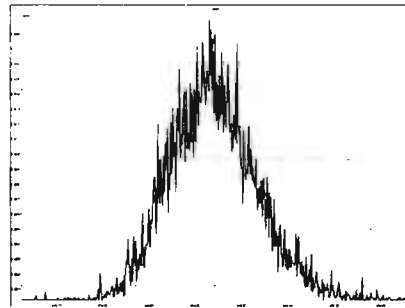
M 392.9760 R 10375



M 404.9760 R 10000



M 416.9760 R 10329



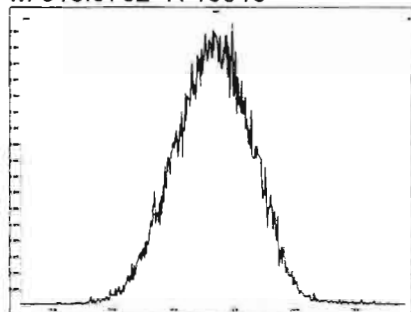
Experiment Calibration Report

MassLynx 4.1 SCN815

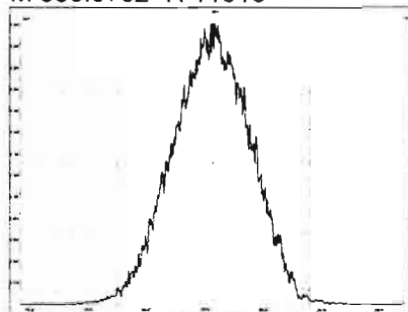
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, January 30, 2020 14:08:31 Pacific Standard Time

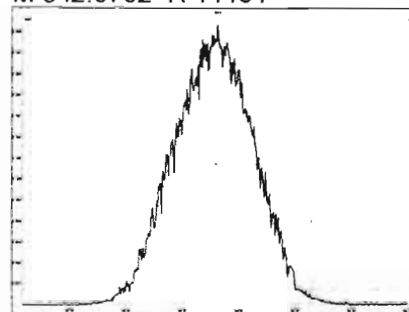
M 318.9792 R 10916



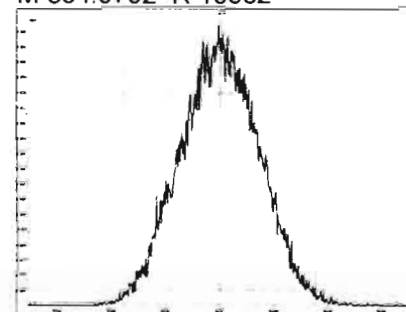
M 330.9792 R 11015



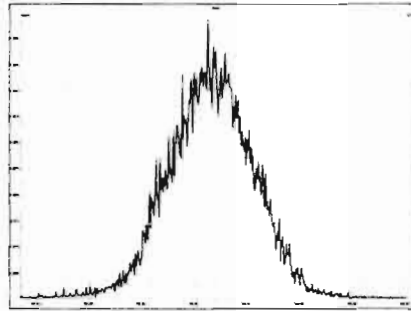
M 342.9792 R 11161



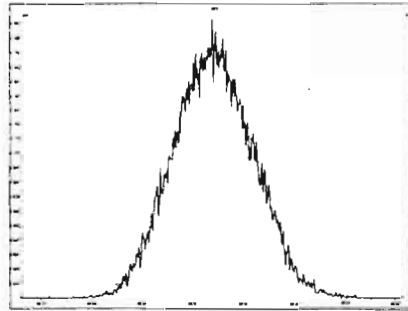
M 354.9792 R 10682



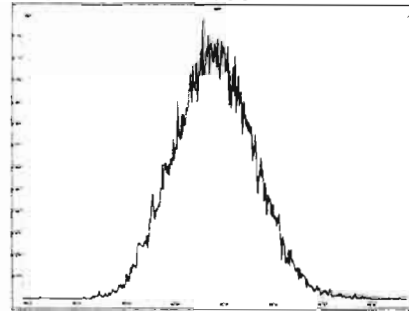
M 366.9792 R 10118



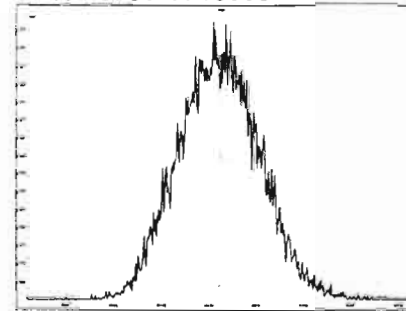
M 380.9760 R 10504



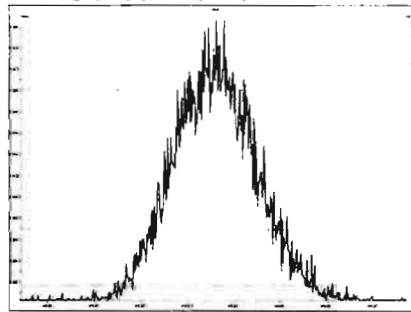
M 392.9760 R 10332



M 404.9760 R 10639



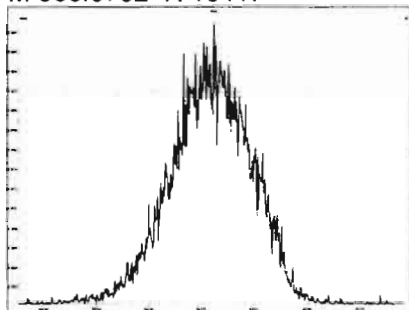
M 416.9760 R 10203



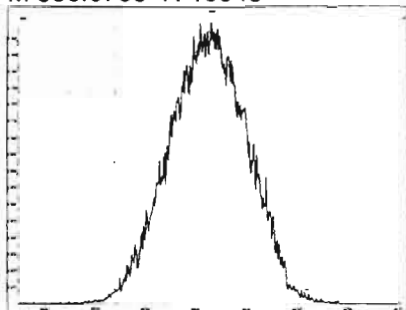
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, January 30, 2020 14:09:31 Pacific Standard Time

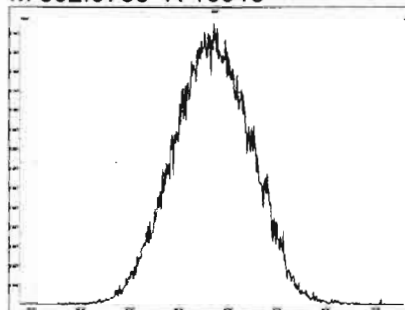
M 366.9792 R 10417



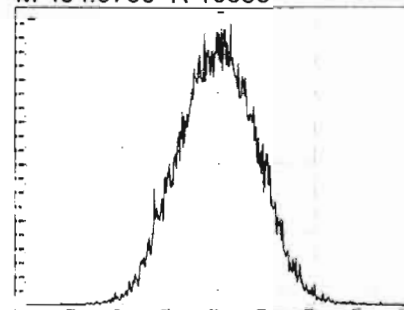
M 380.9760 R 10548



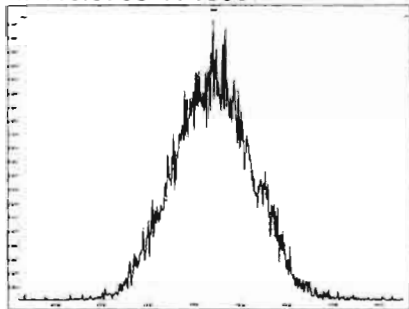
M 392.9760 R 10915



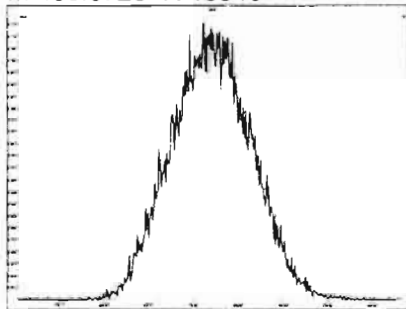
M 404.9760 R 10638



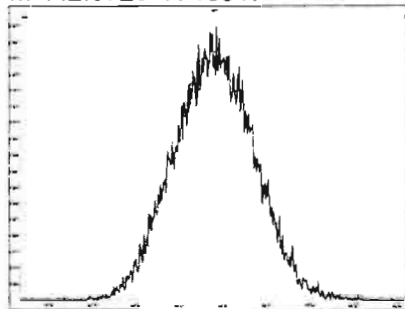
M 416.9760 R 10637



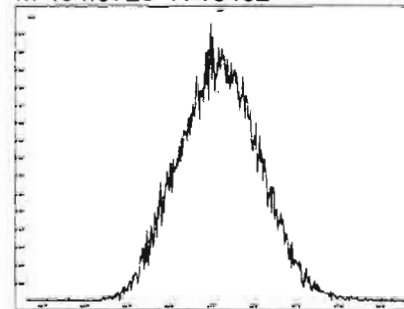
M 430.9728 R 10546



M 442.9728 R 10917



M 454.9728 R 10462



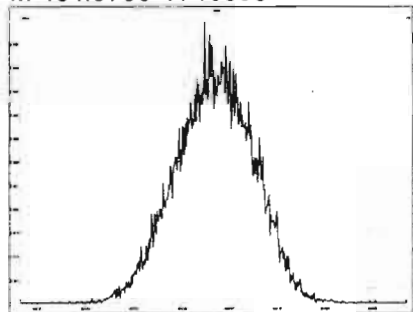
Experiment Calibration Report

MassLynx 4.1 SCN815

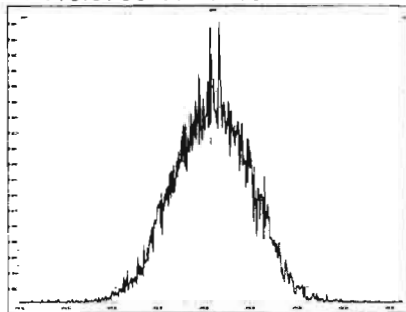
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Printed: Thursday, January 30, 2020 14:10:21 Pacific Standard Time

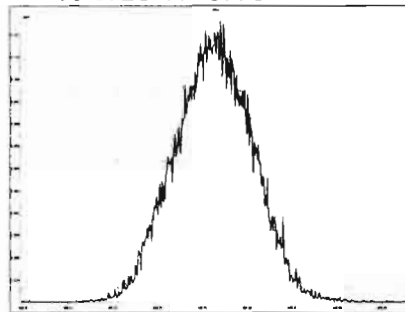
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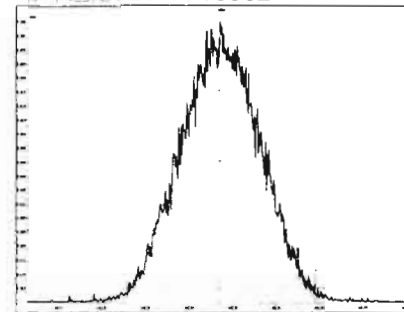
M 416.9760 R 11415



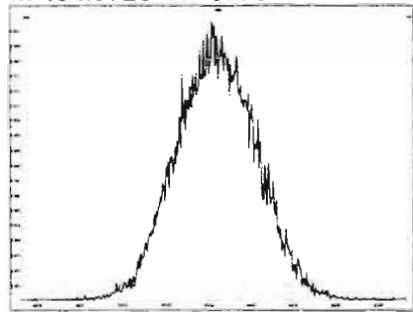
M 430.9728 R 10778



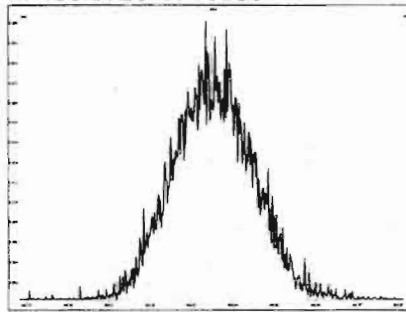
M 442.9728 R 10962



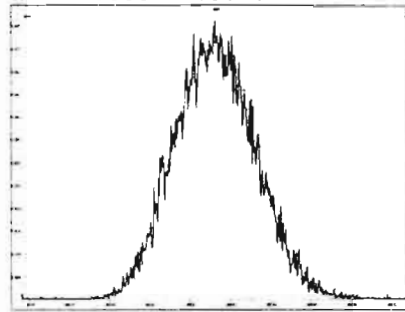
M 454.9728 R 10775



M 466.9728 R 10685



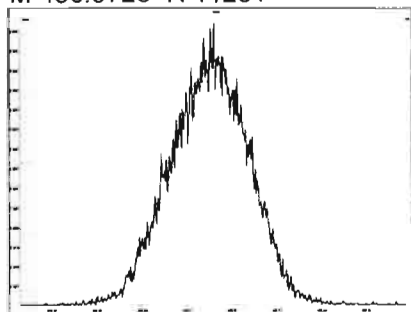
M 480.9696 R 10373



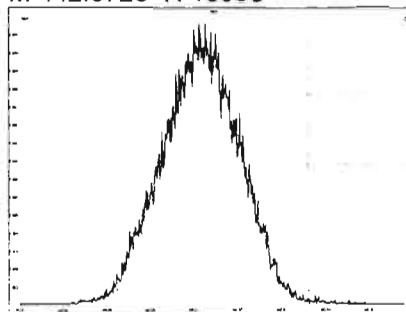
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Printed: Thursday, January 30, 2020 14:10:50 Pacific Standard Time

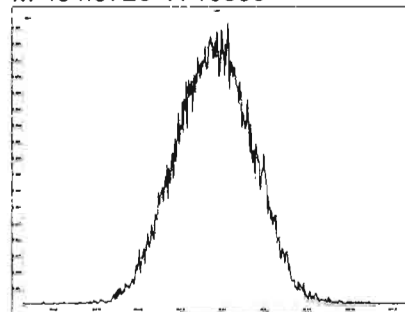
M 430.9728 R 11261



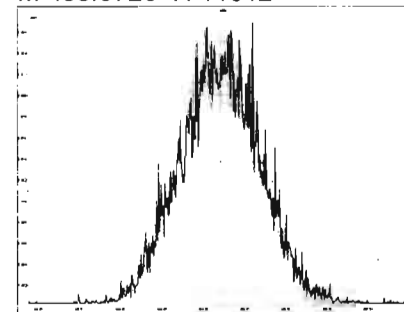
M 442.9728 R 10963



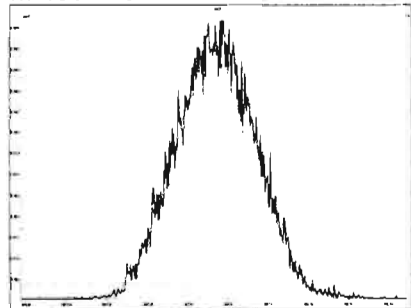
M 454.9728 R 10639



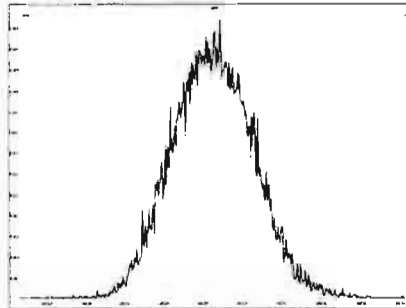
M 466.9728 R 11012



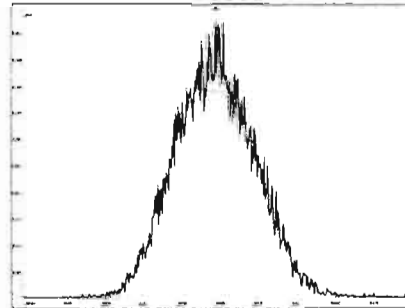
M 480.9696 R 10682



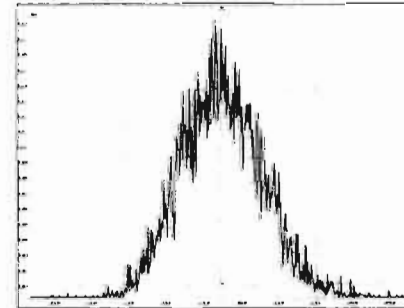
M 492.9696 R 10160



M 504.9696 R 10503



M 516.9697 R 10915



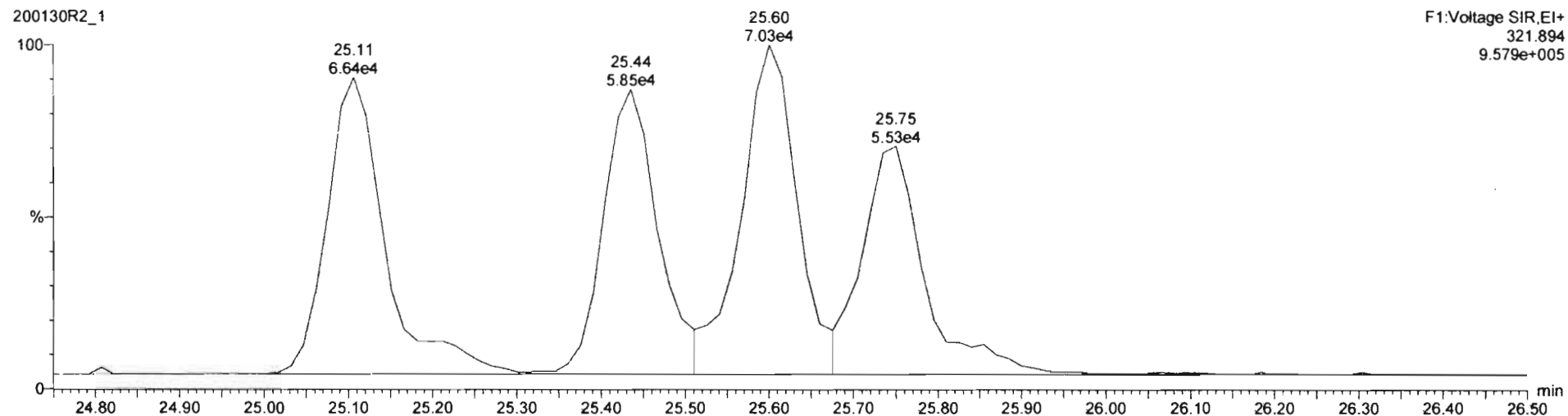
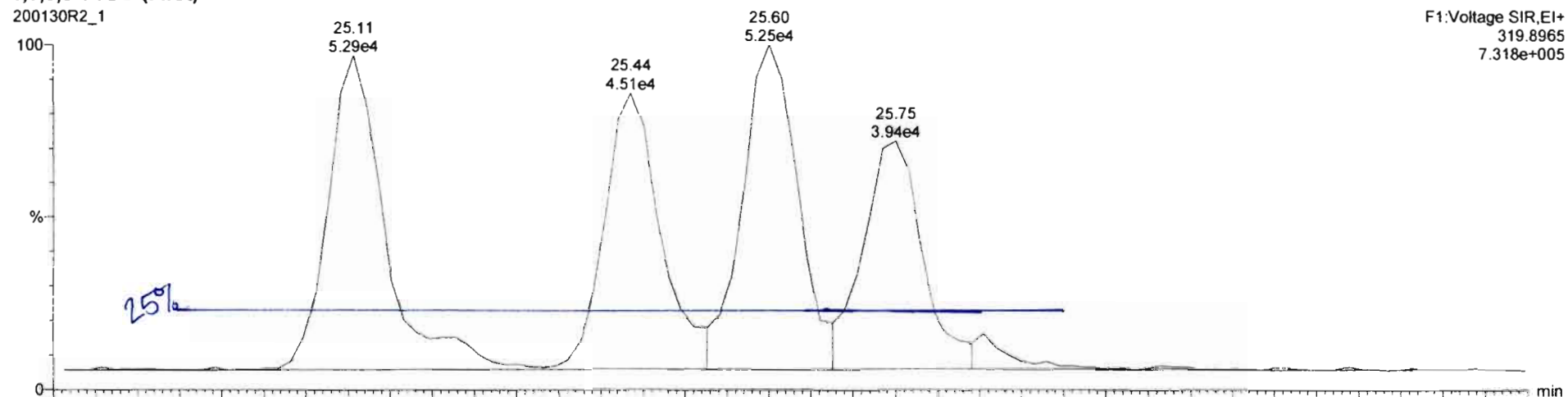
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Last Altered: Thursday, January 30, 2020 15:27:11 Pacific Standard Time
Printed: Thursday, January 30, 2020 15:27:21 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R2_1, Date: 30-Jan-2020, Time: 14:14:22, ID: ST200130R2_1 1613 CS3 1911604, Description: 1613 CS3 1911604

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



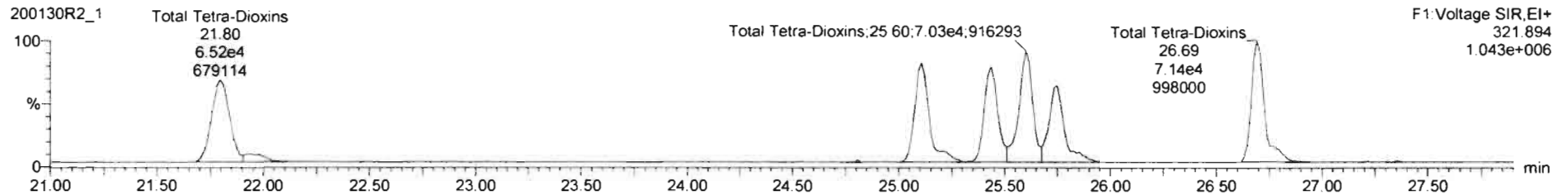
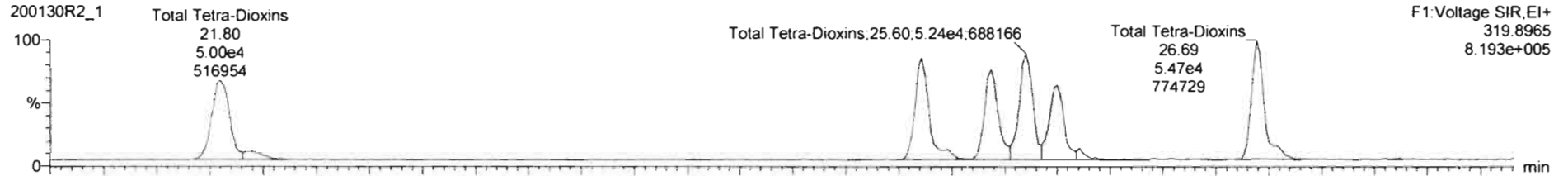
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Last Altered: Thursday, January 30, 2020 15:26:25 Pacific Standard Time
Printed: Thursday, January 30, 2020 15:26:36 Pacific Standard Time

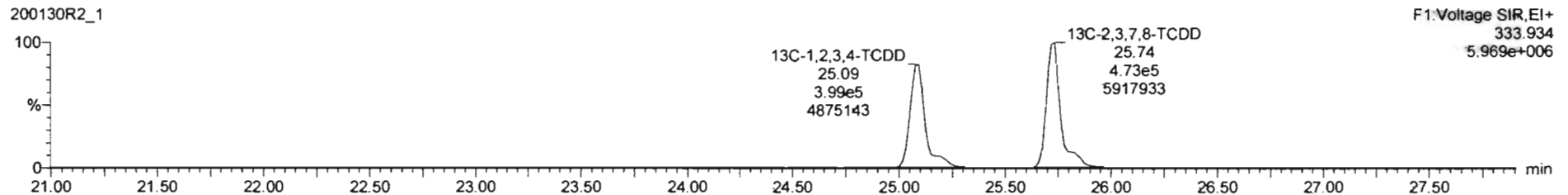
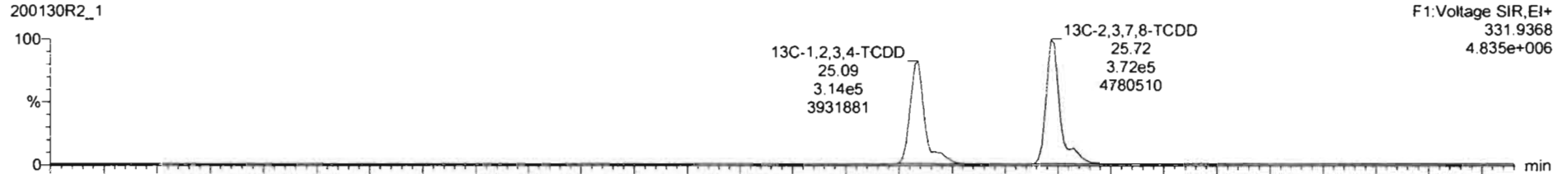
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

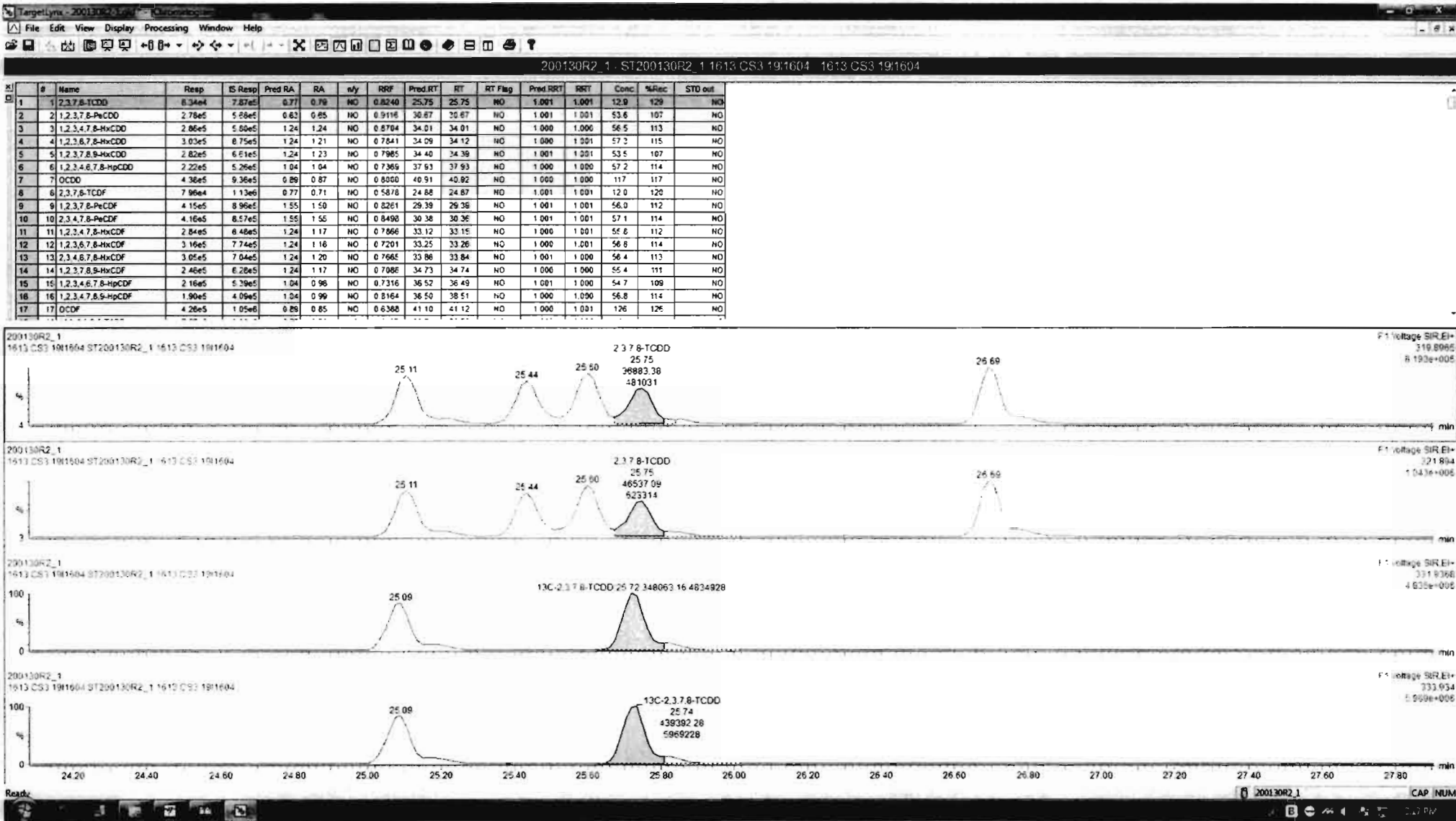
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2,3,7,8-TCDD



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





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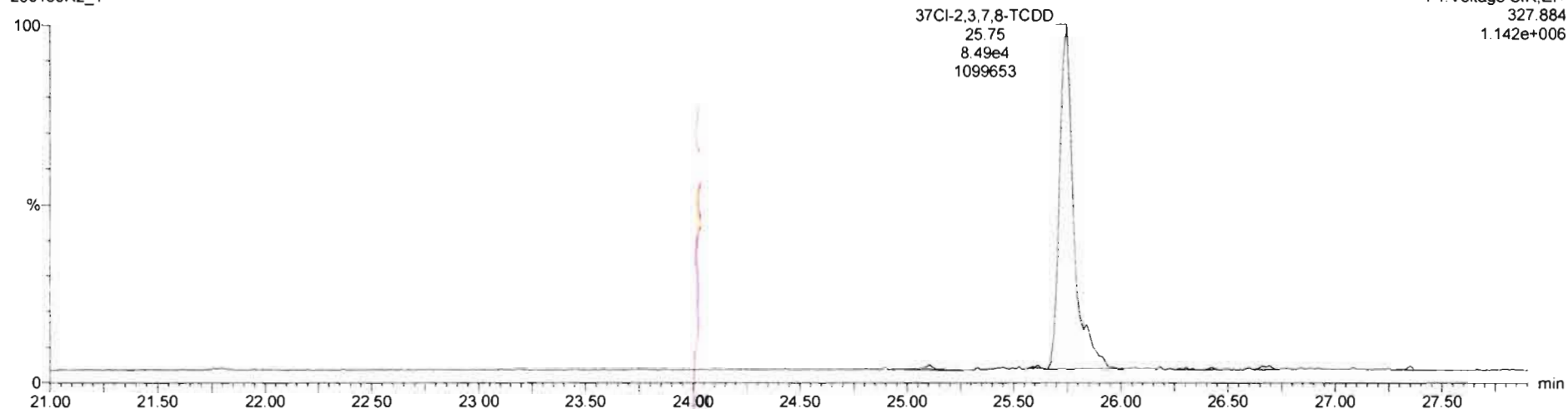
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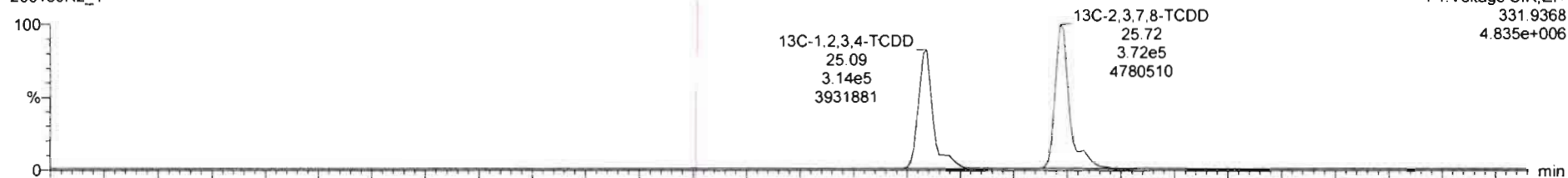
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200130R2_1

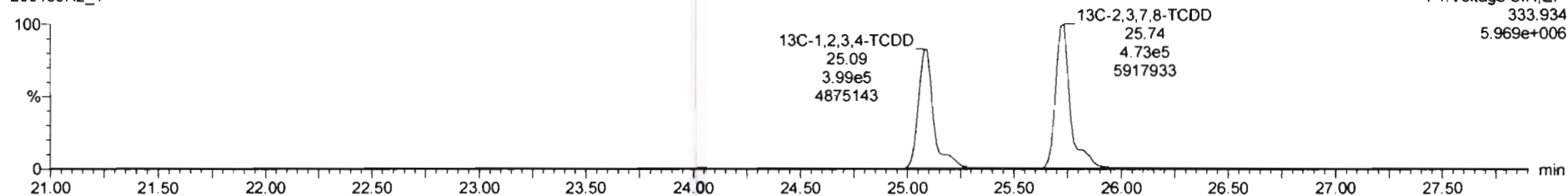


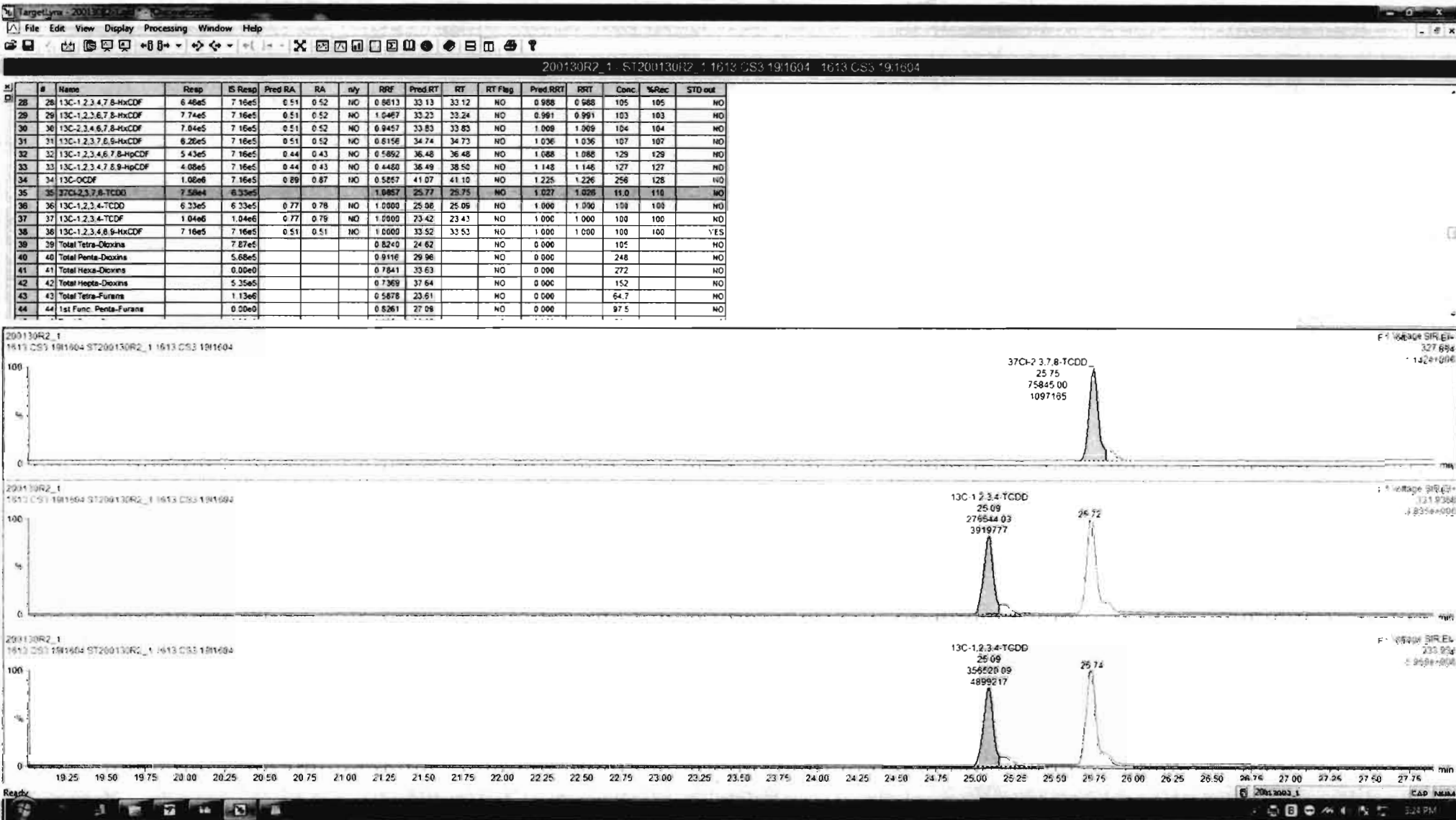
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200130R2_1



200130R2_1



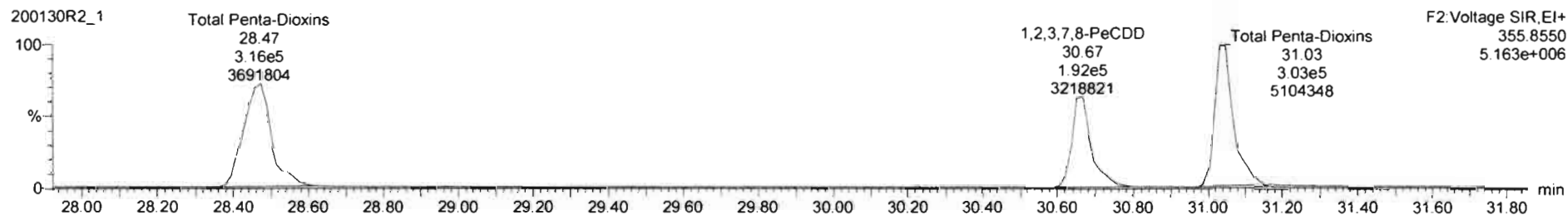
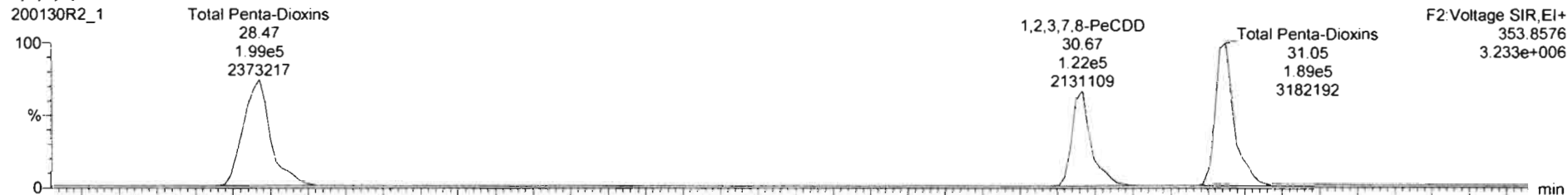


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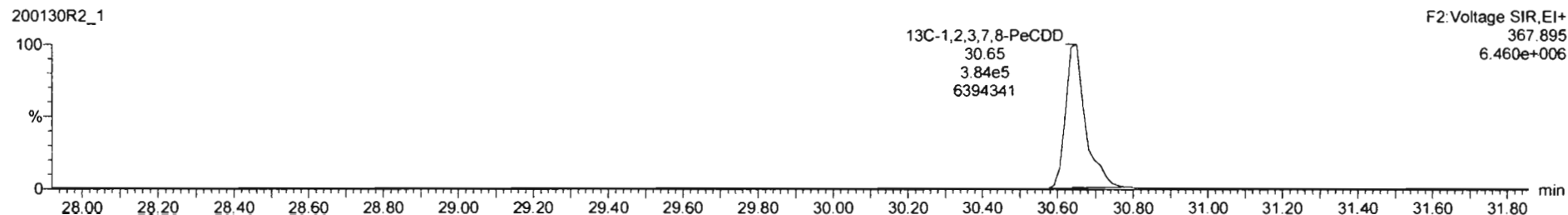
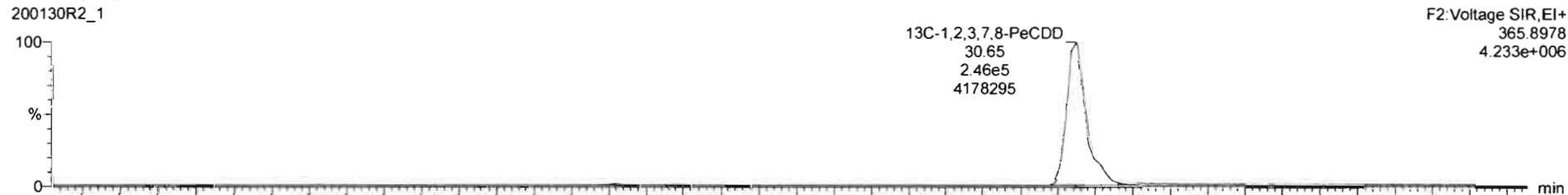
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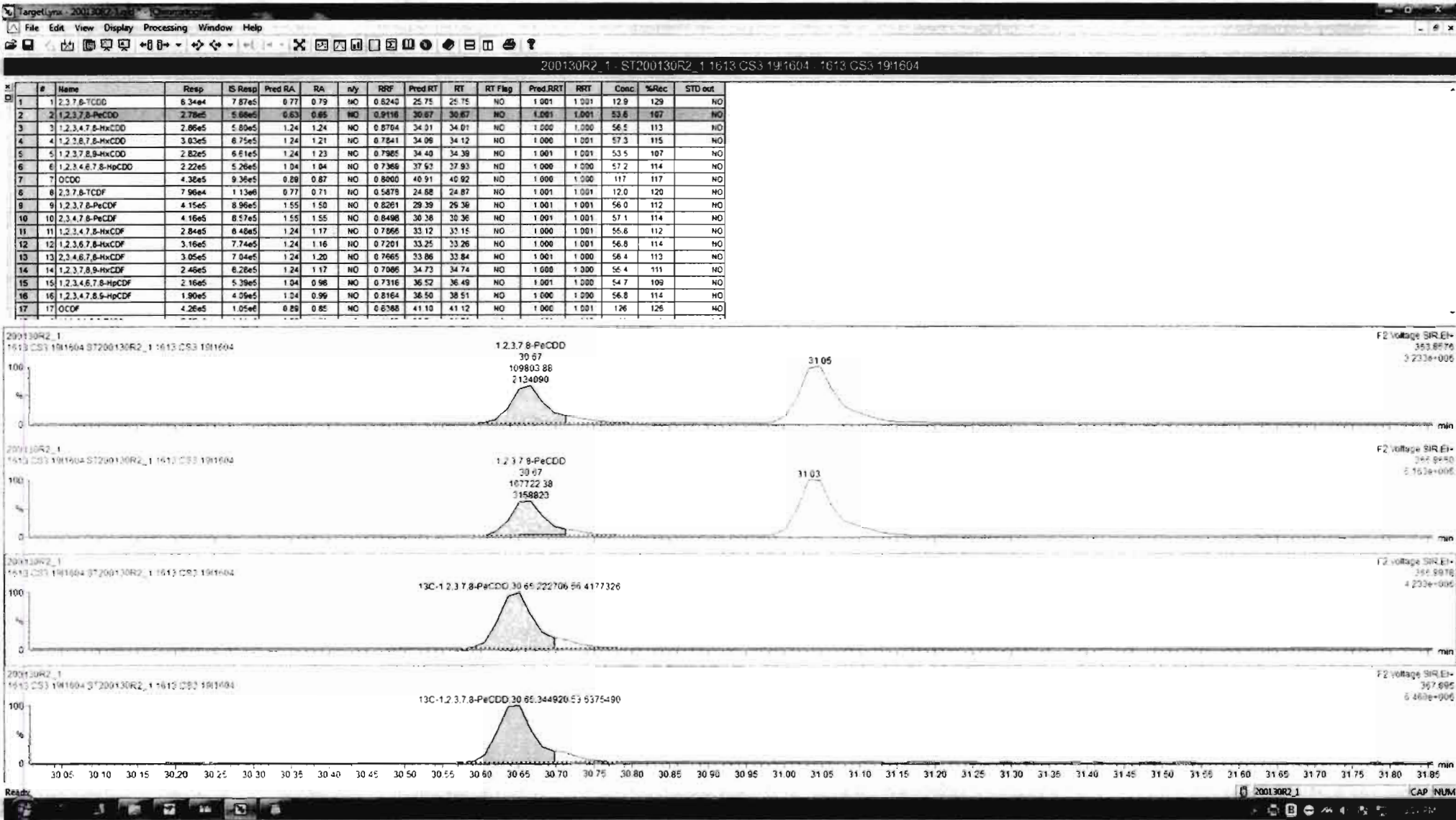
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1,2,3,7,8-PeCDD



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





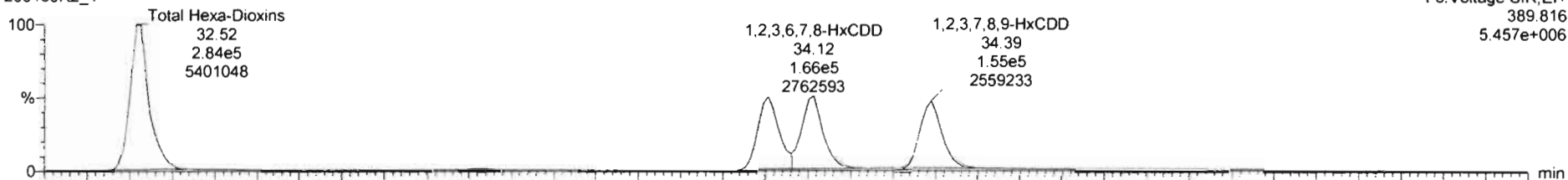
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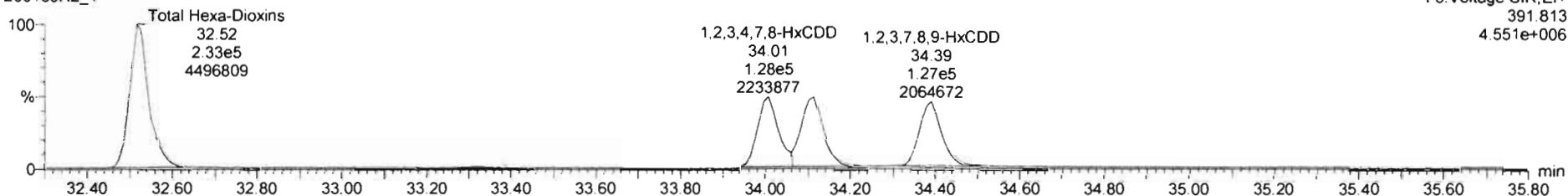
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1,2,3,4,7,8-HxCDD

200130R2_1

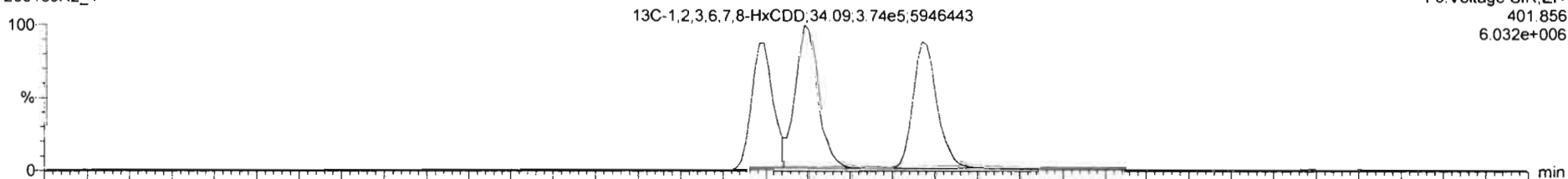


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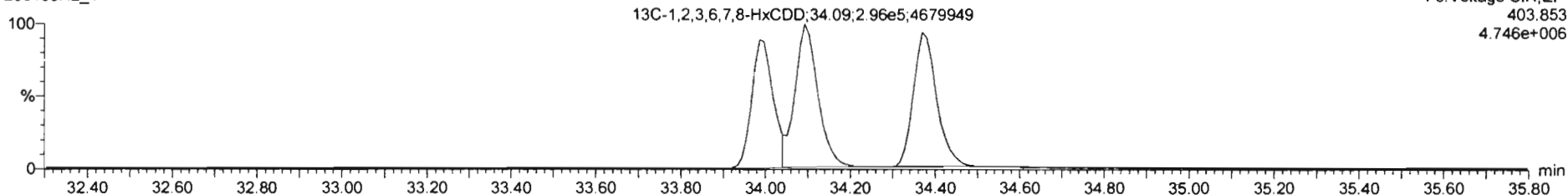


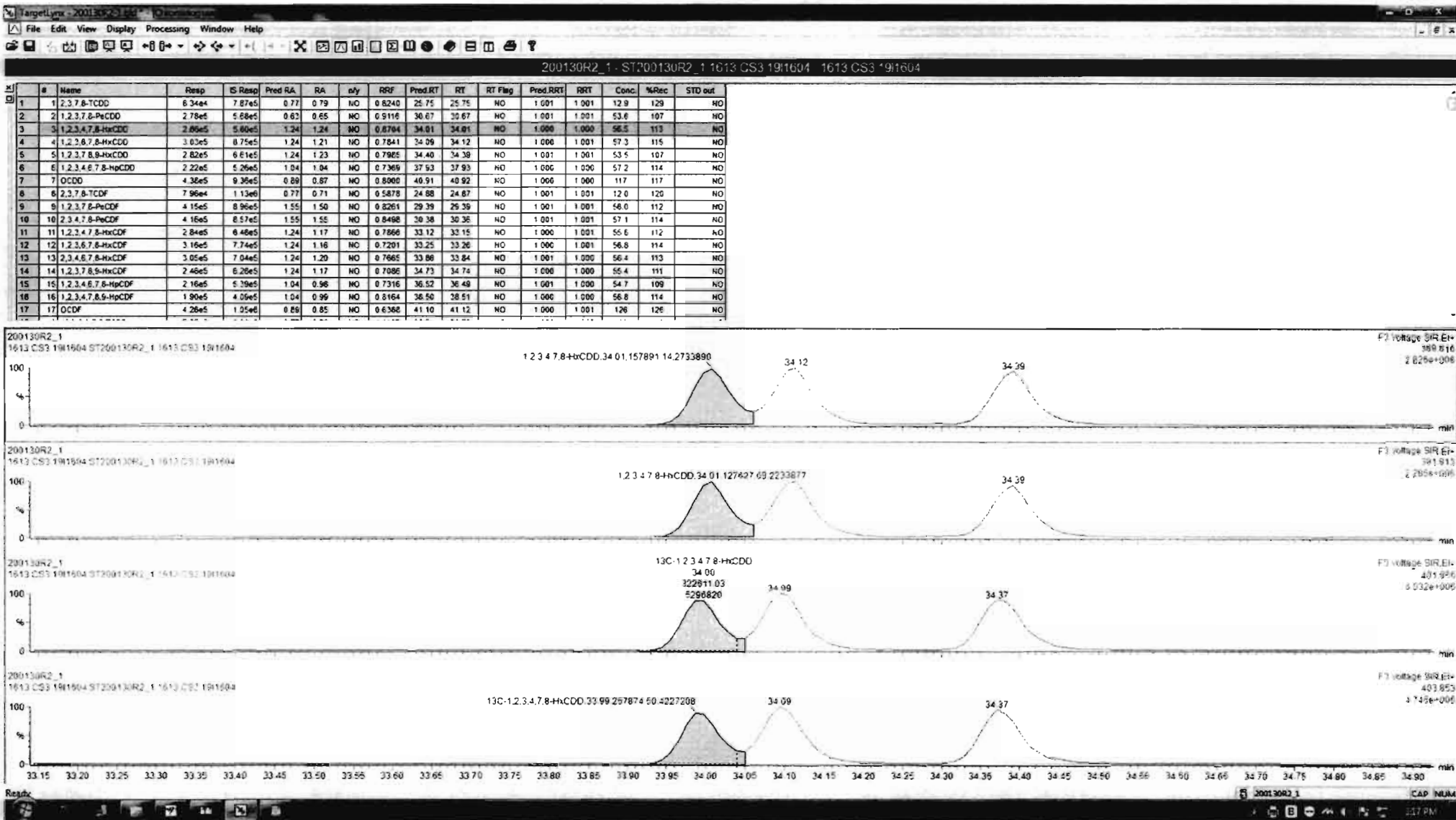
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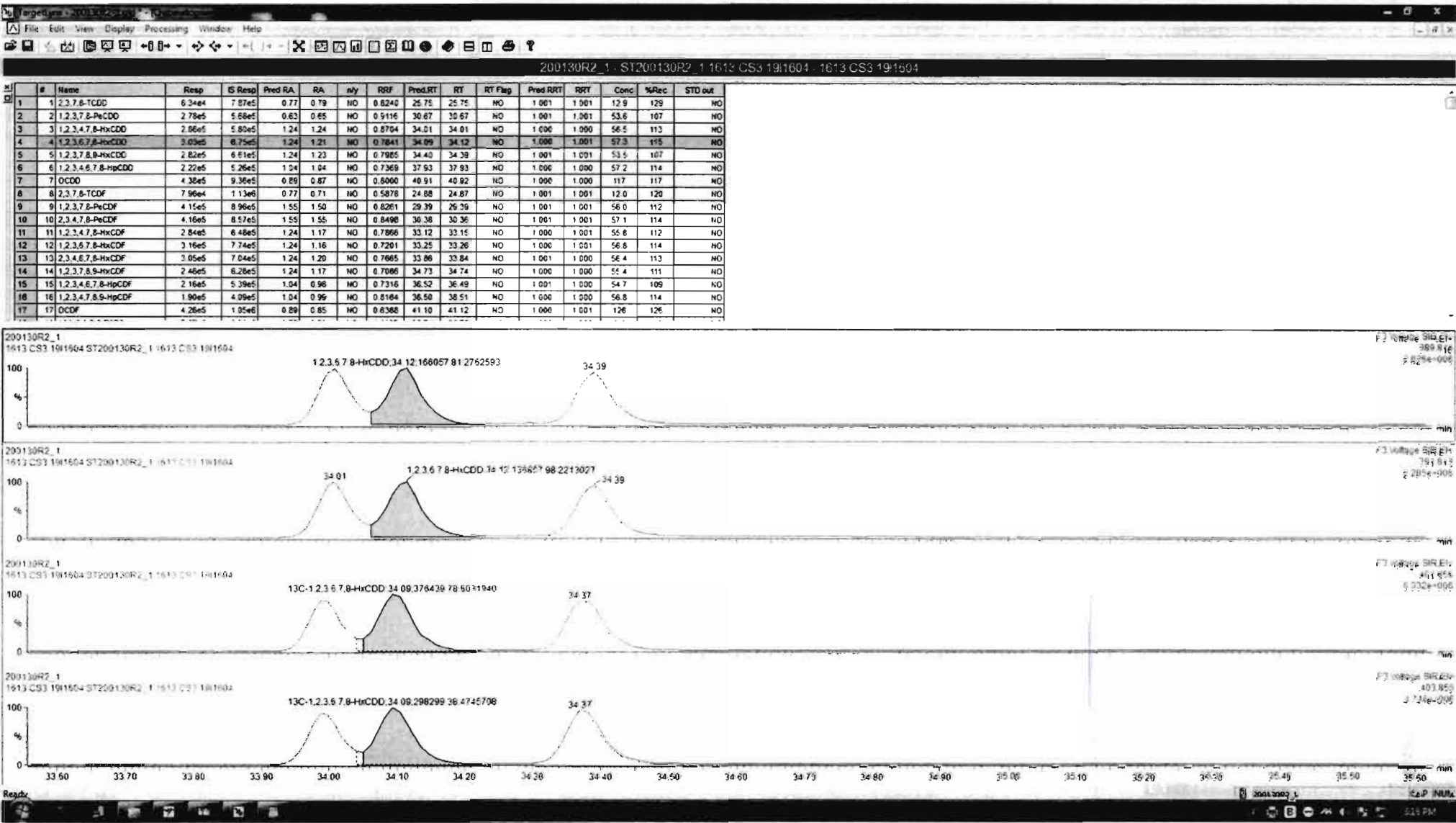
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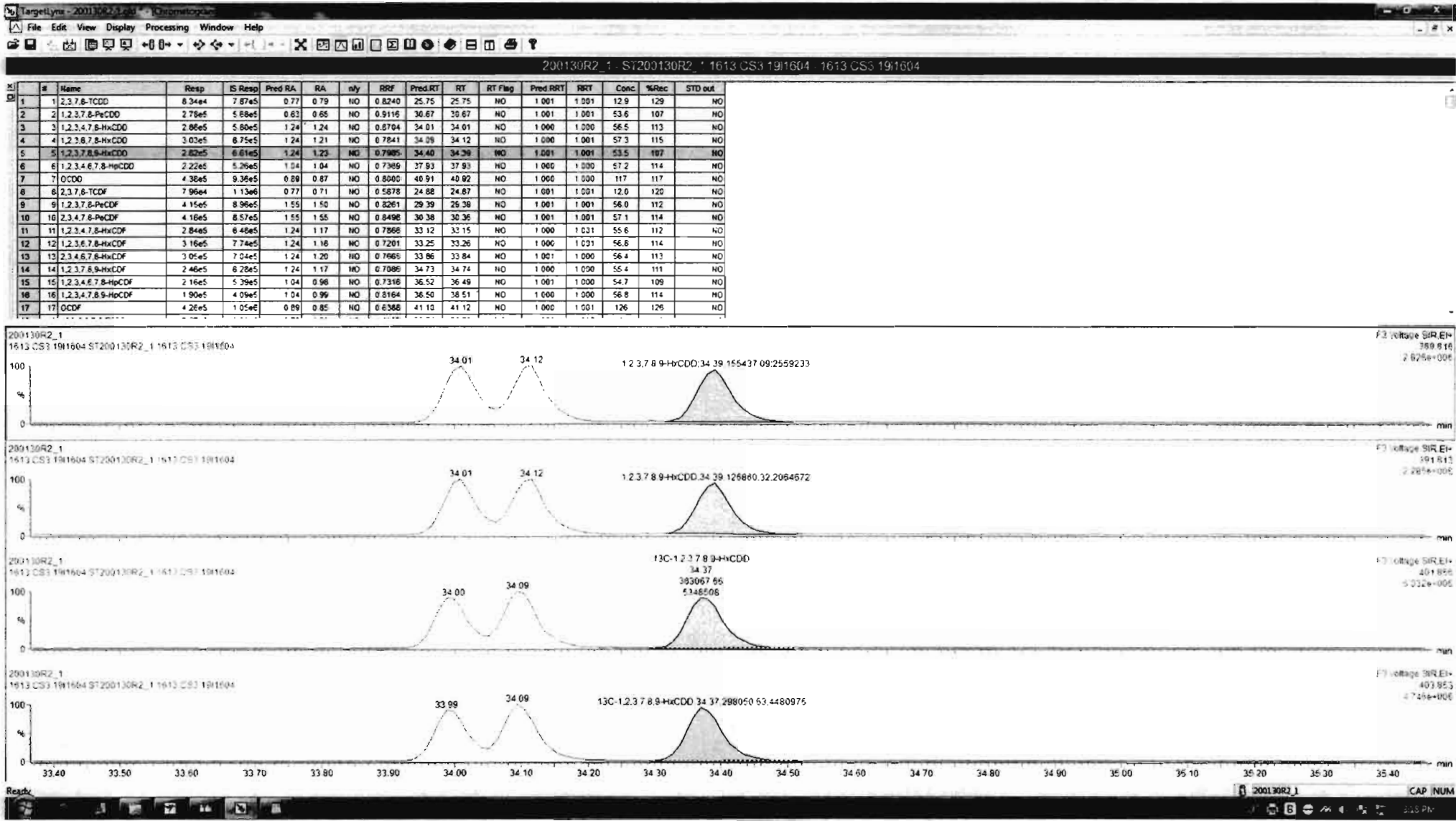
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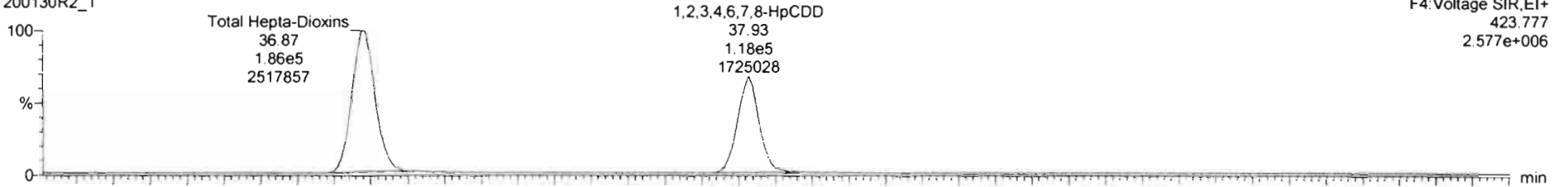
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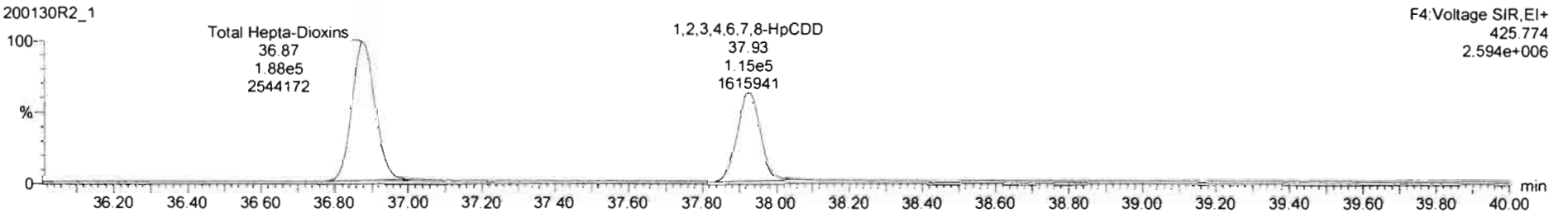
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1,2,3,4,6,7,8-HpCDD

200130R2_1

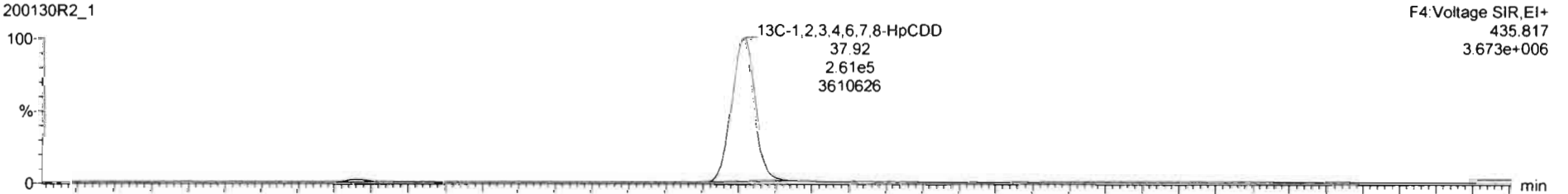


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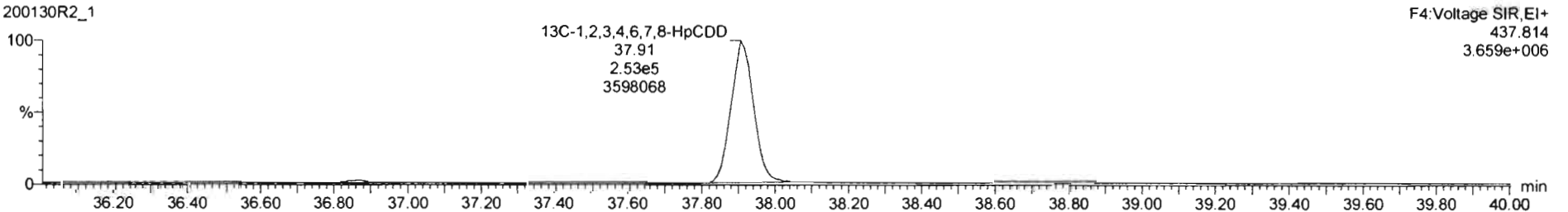


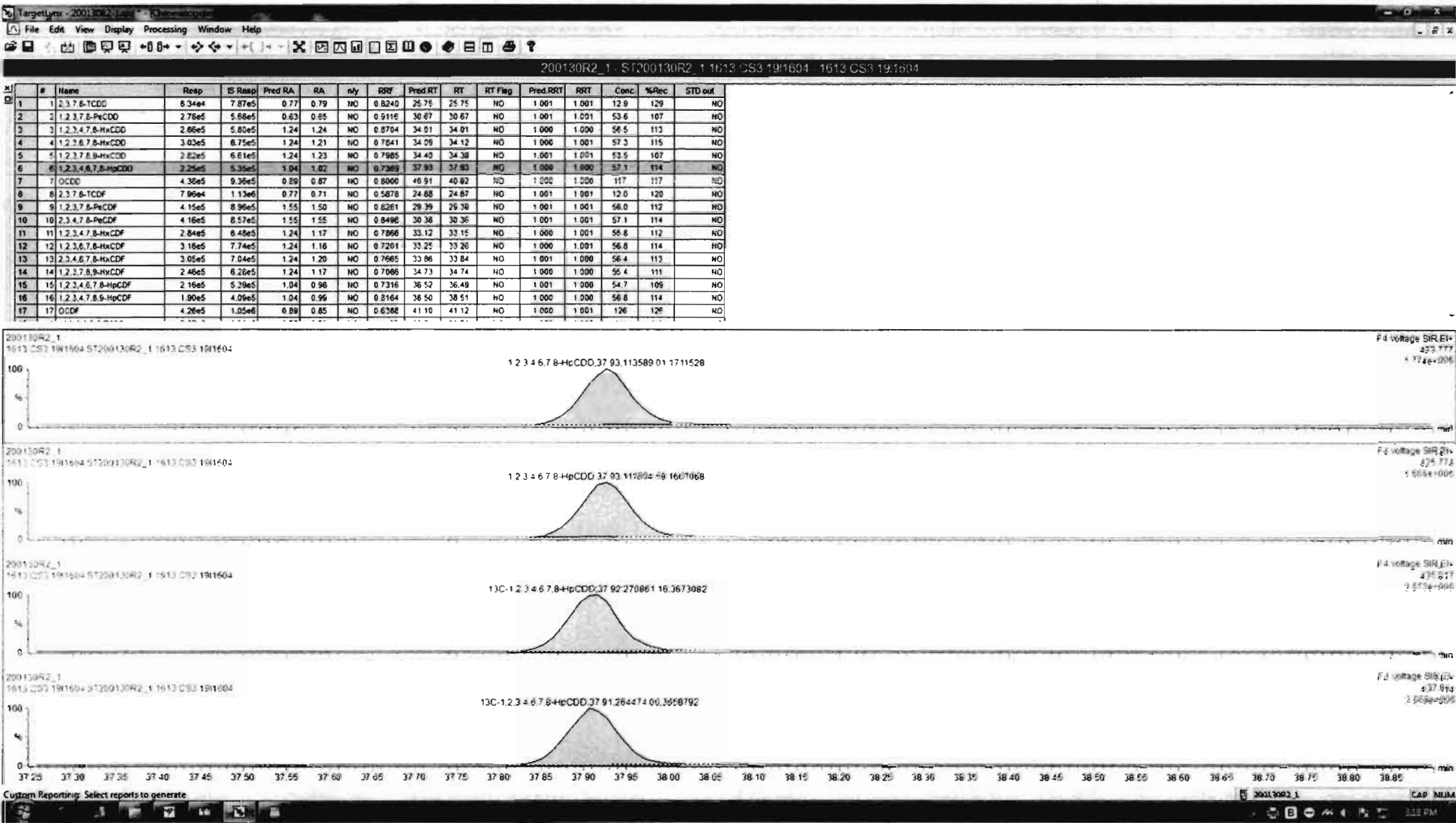
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200130R2_1



200130R2_1

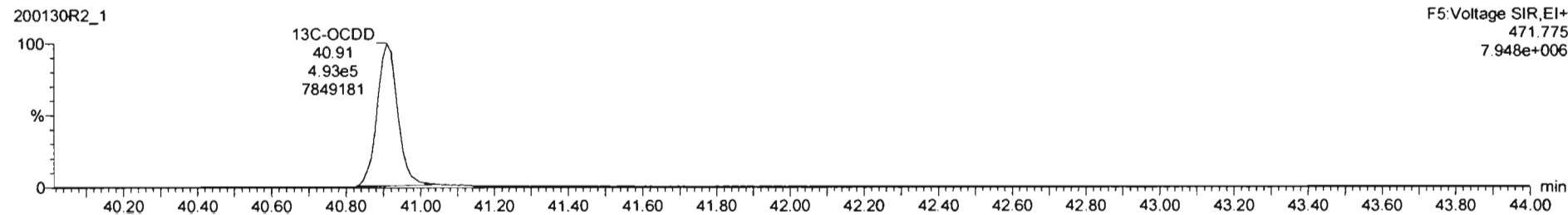
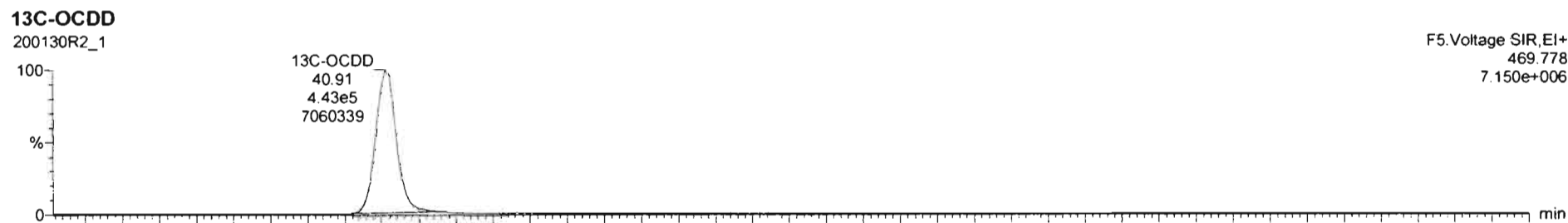
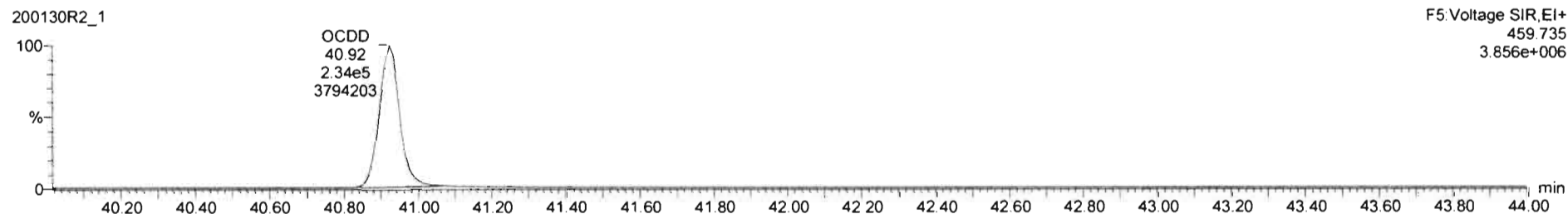
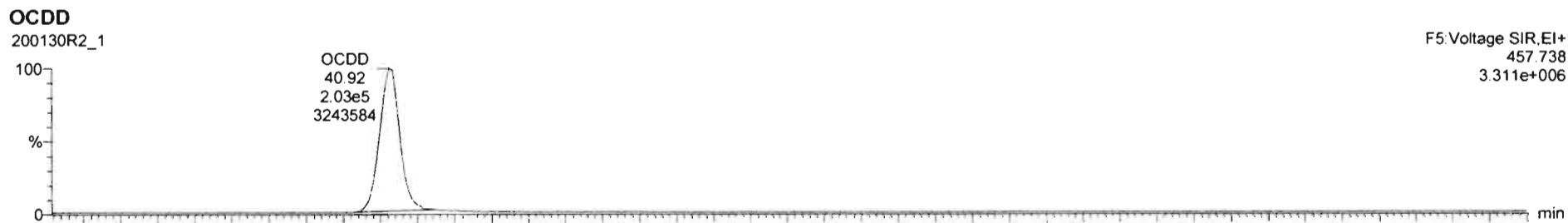


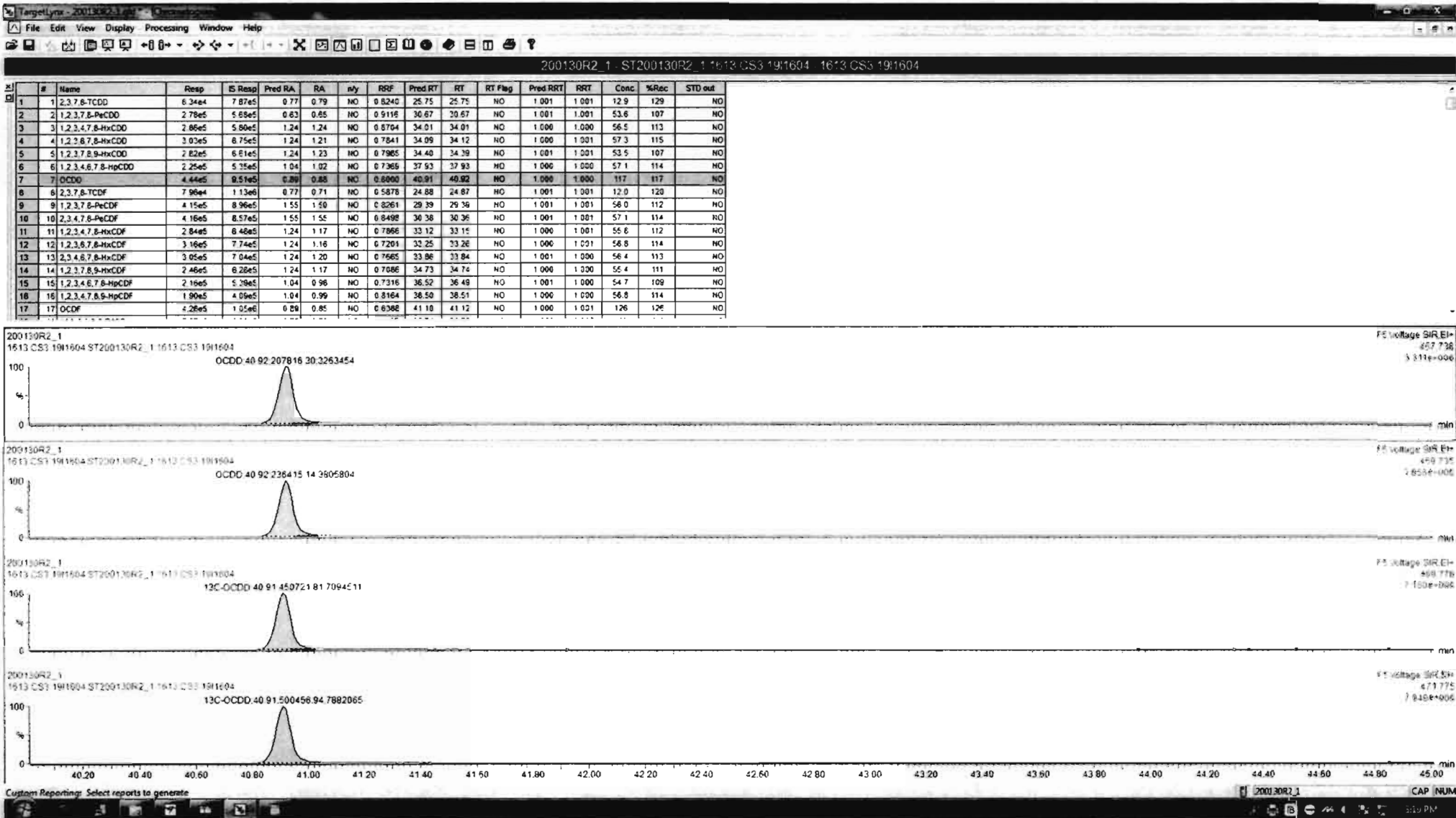


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Printed: Thursday, January 30, 2020 15:26:36 Pacific Standard Time

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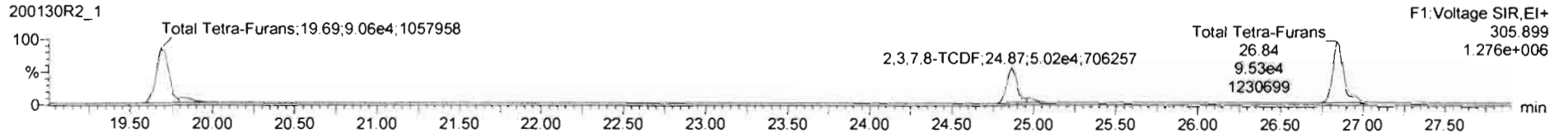
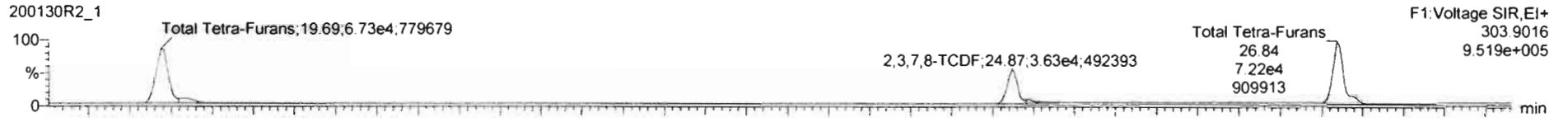


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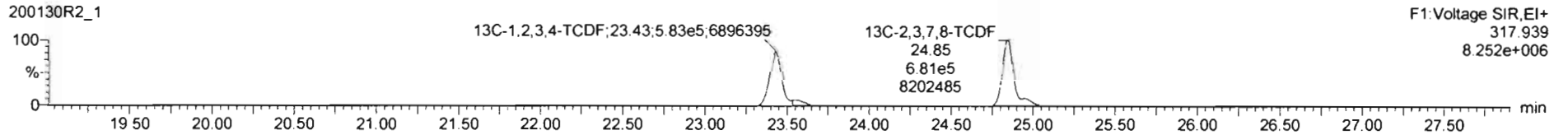
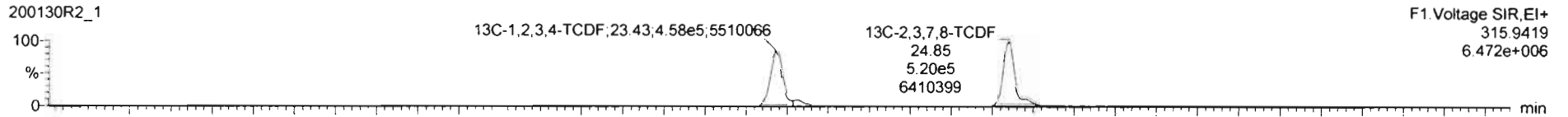
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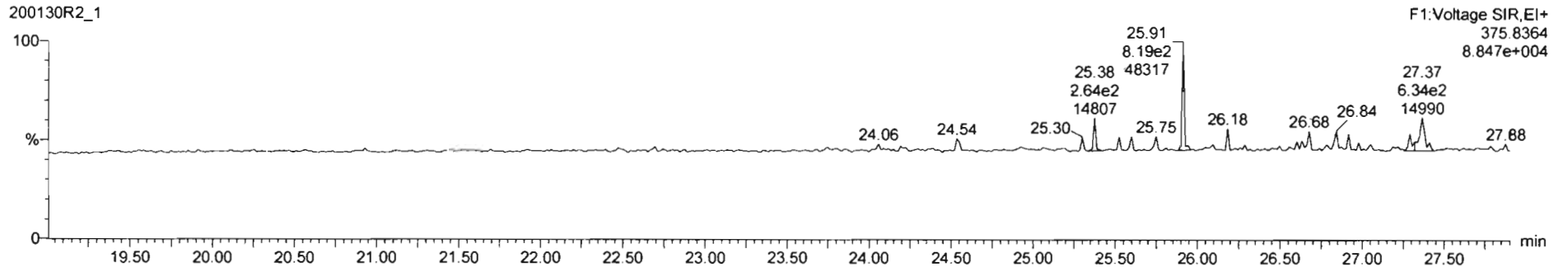
2,3,7,8-TCDF

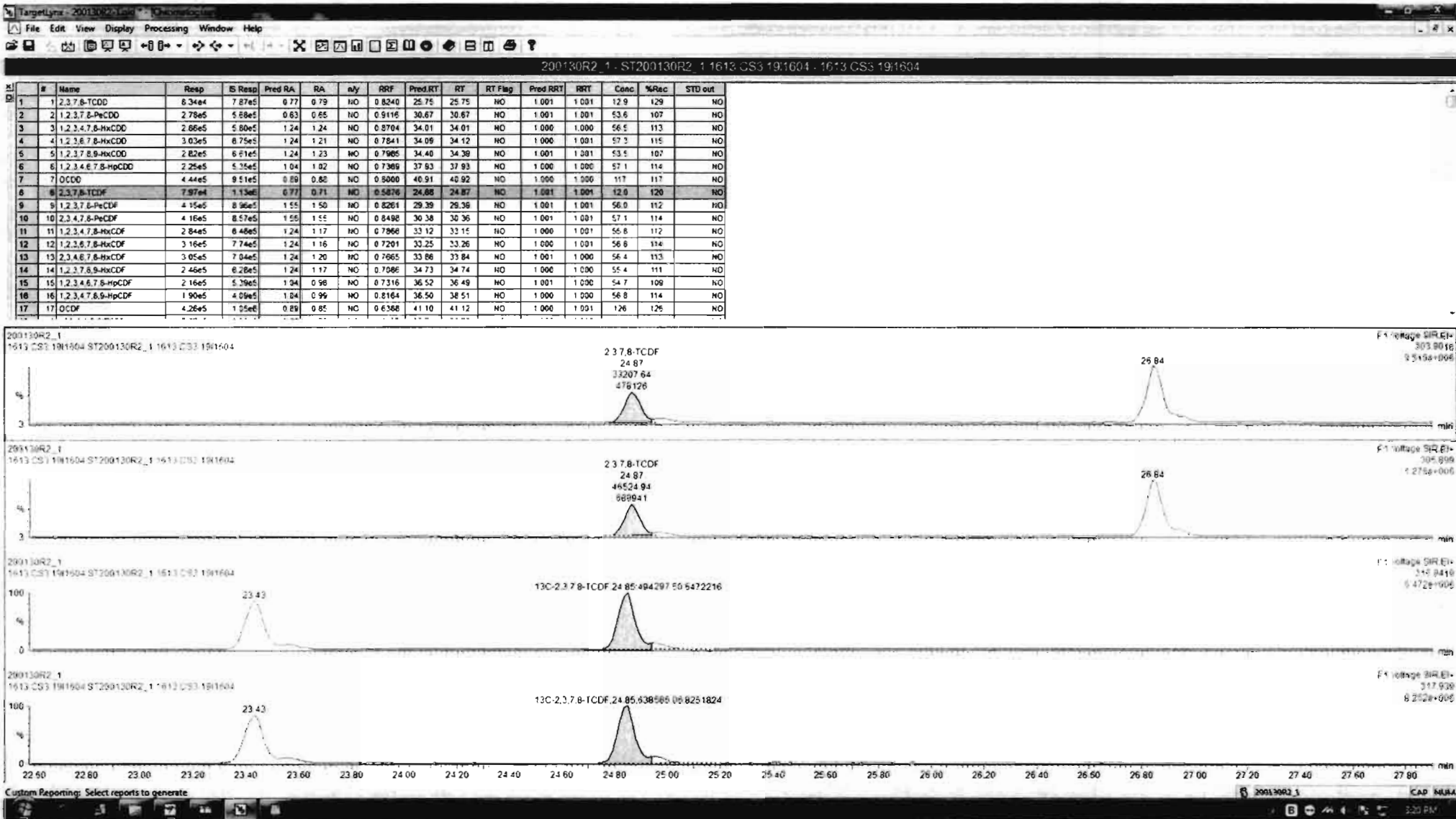


13C-2,3,7,8-TCDF



DPE1





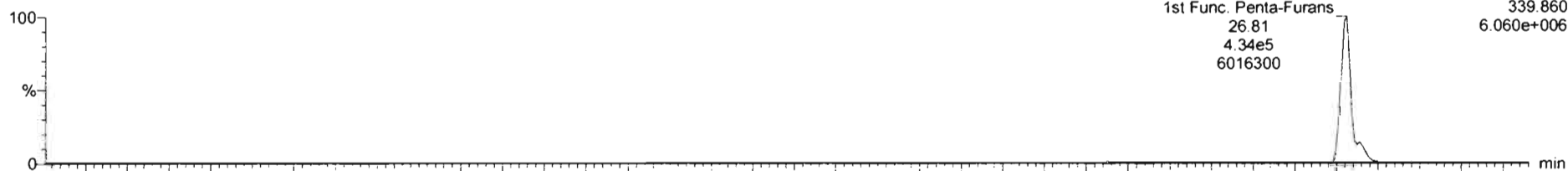
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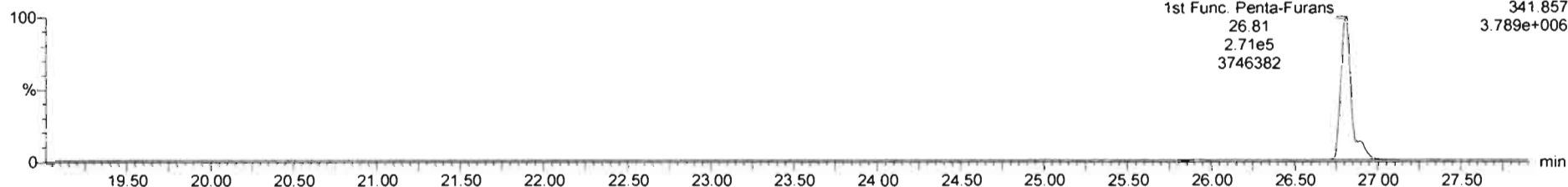
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1st Func. Penta-Furans

200130R2_1

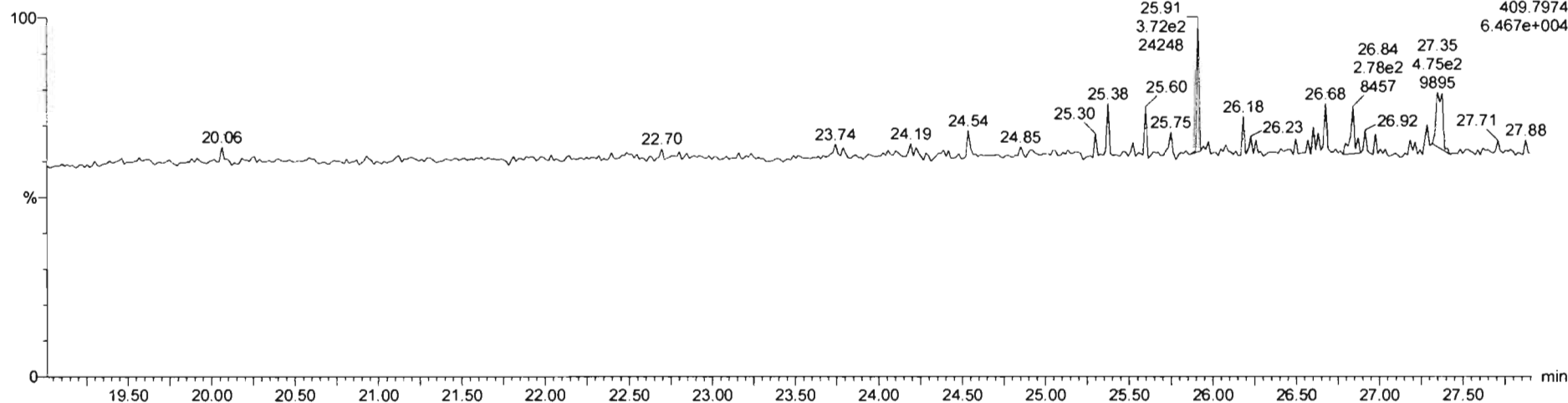


200130R2_1



DPE6

200130R2_1



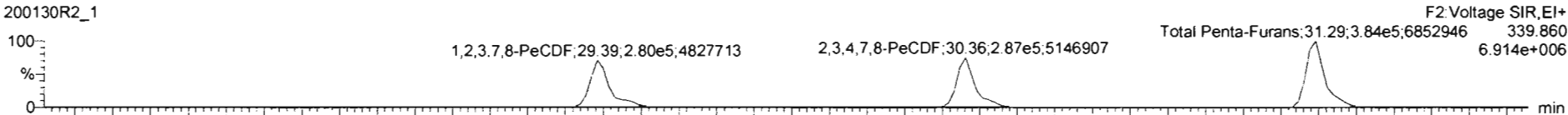
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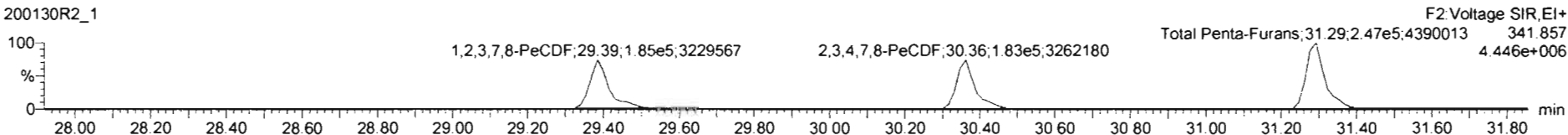
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1,2,3,7,8-PeCDF

200130R2_1

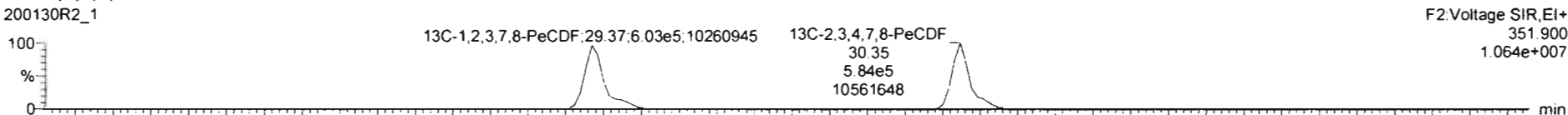


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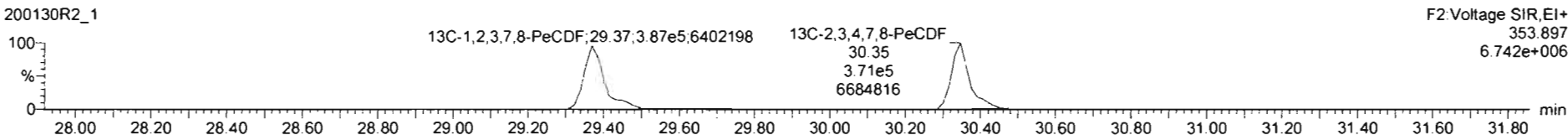


13C-1,2,3,7,8-PeCDF

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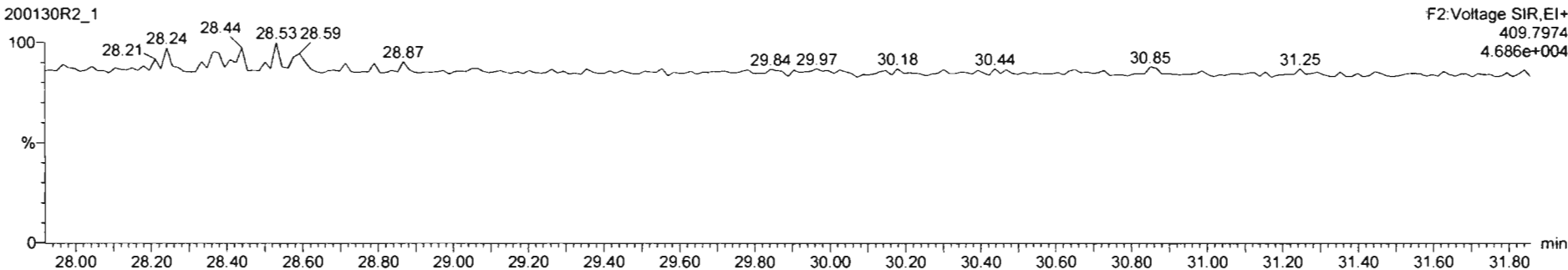


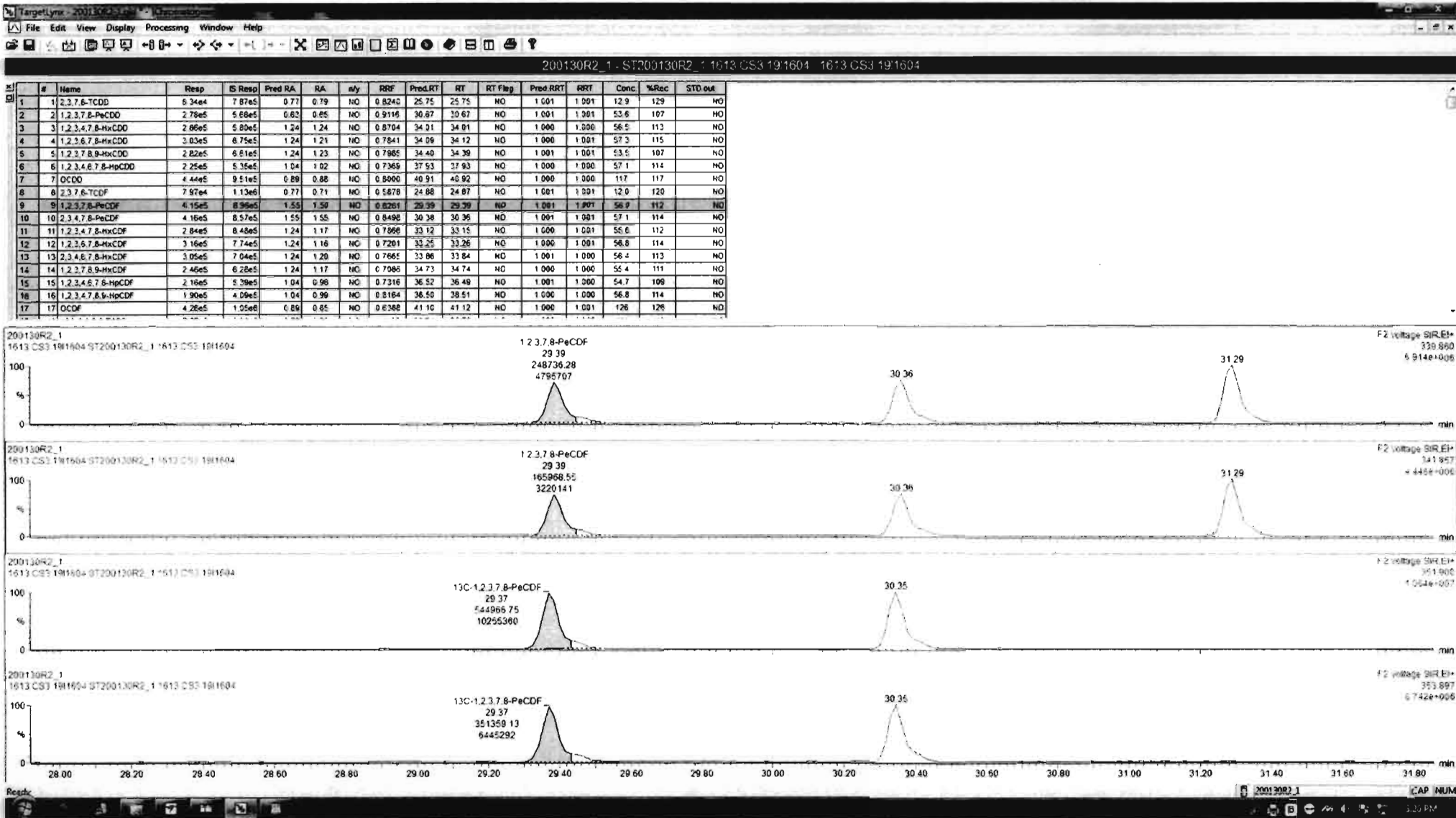
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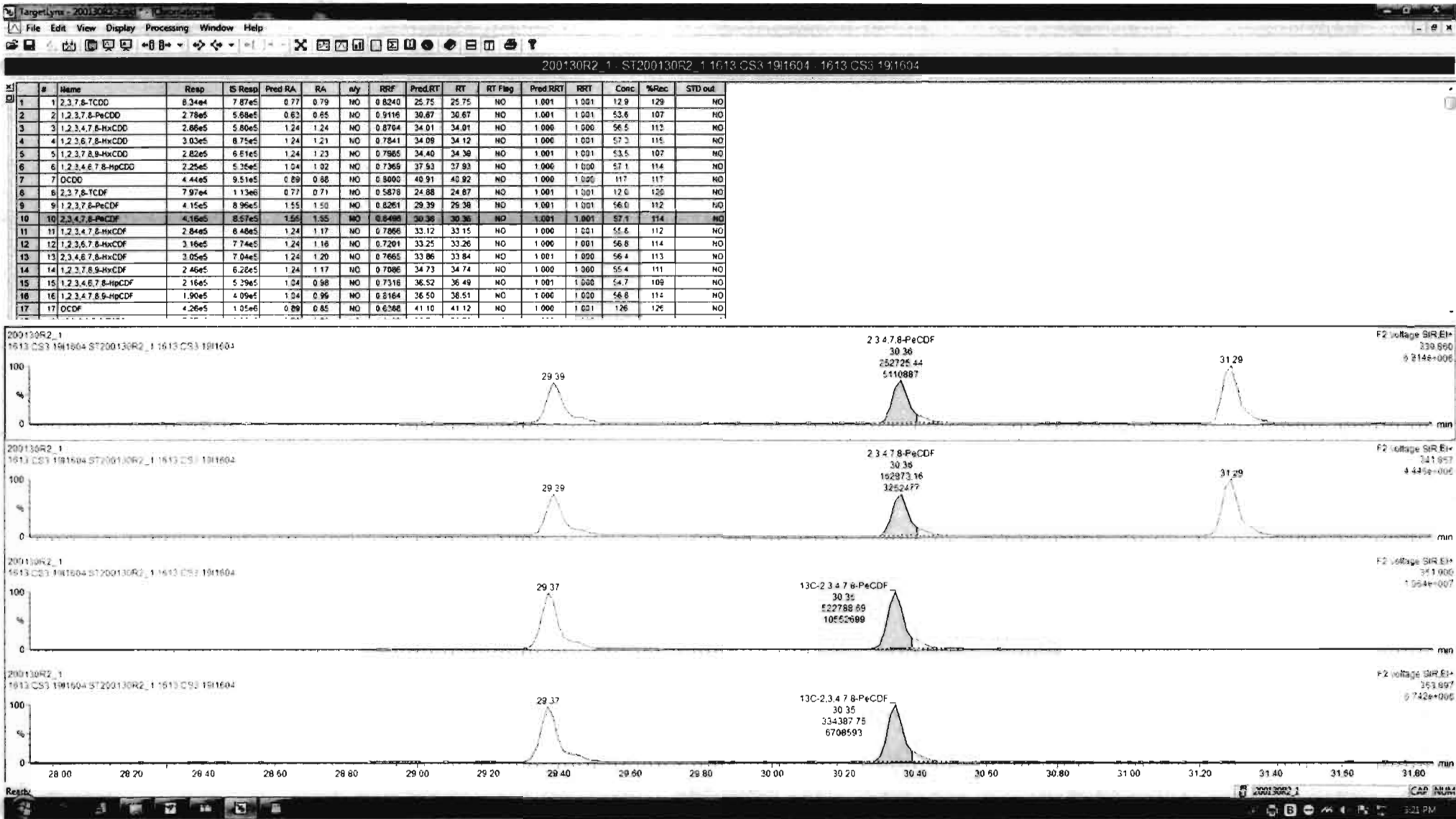


DPE2

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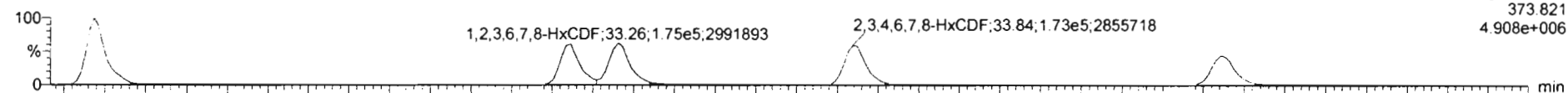
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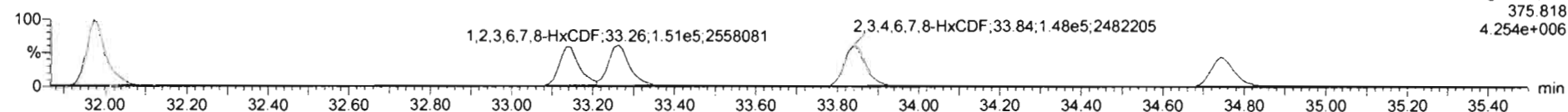
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1,2,3,4,7,8-HxCDF

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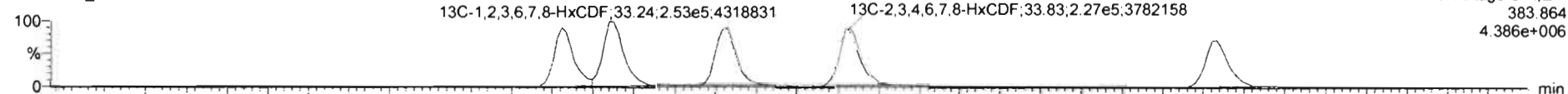


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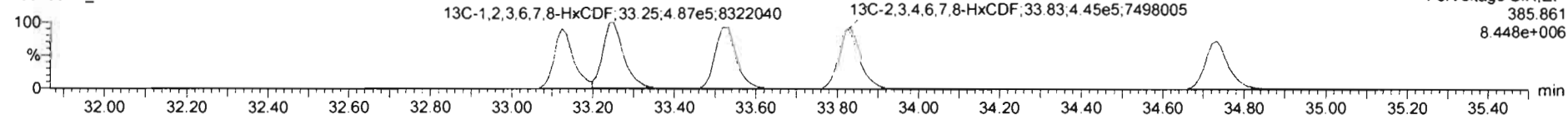


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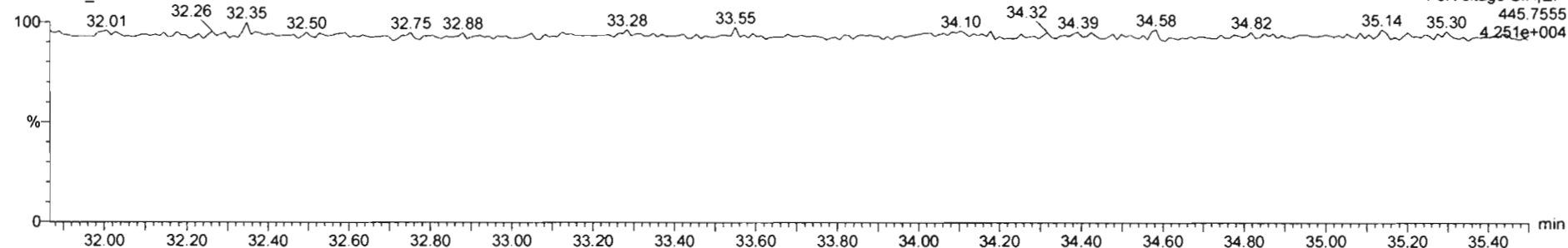


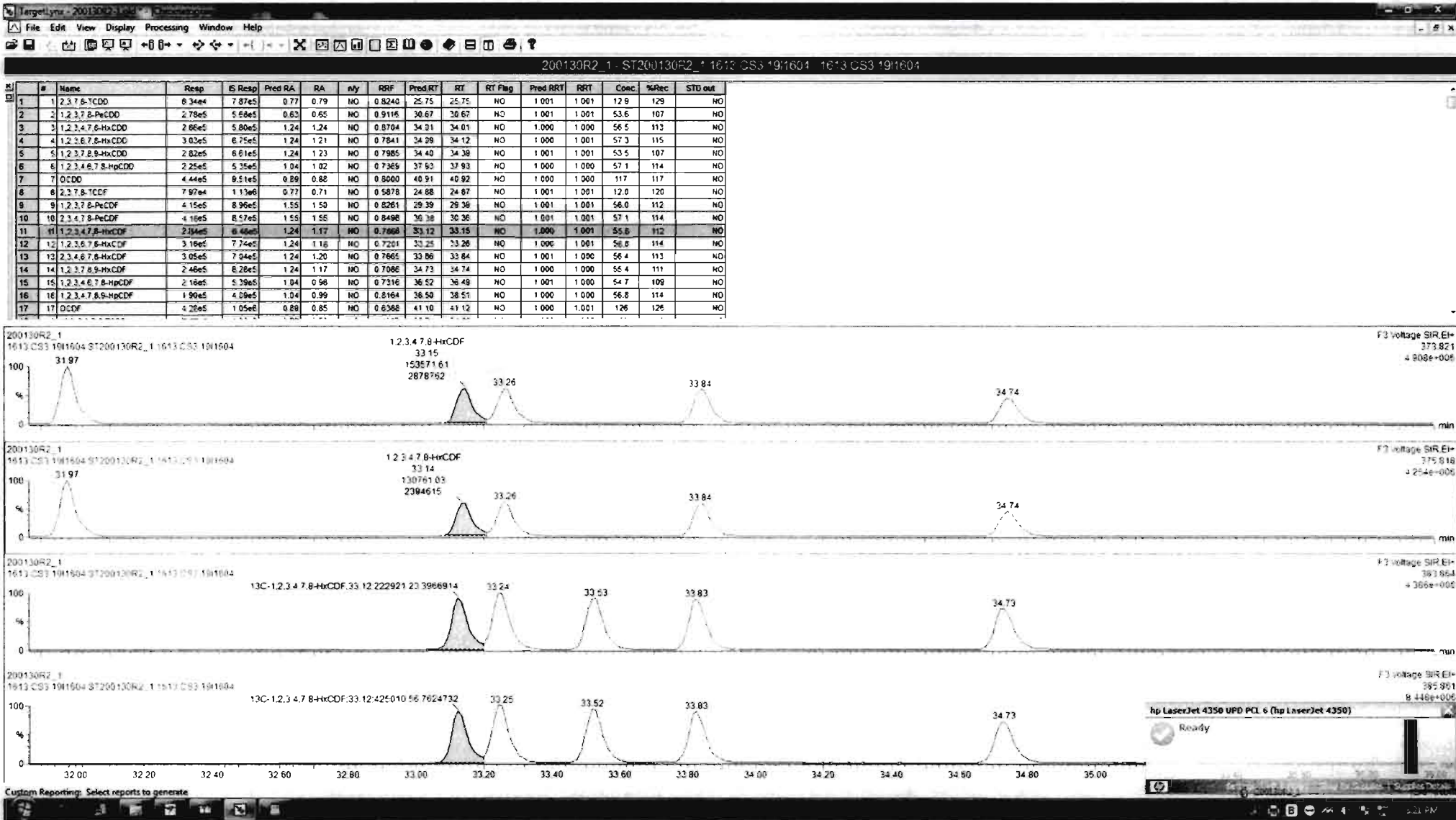
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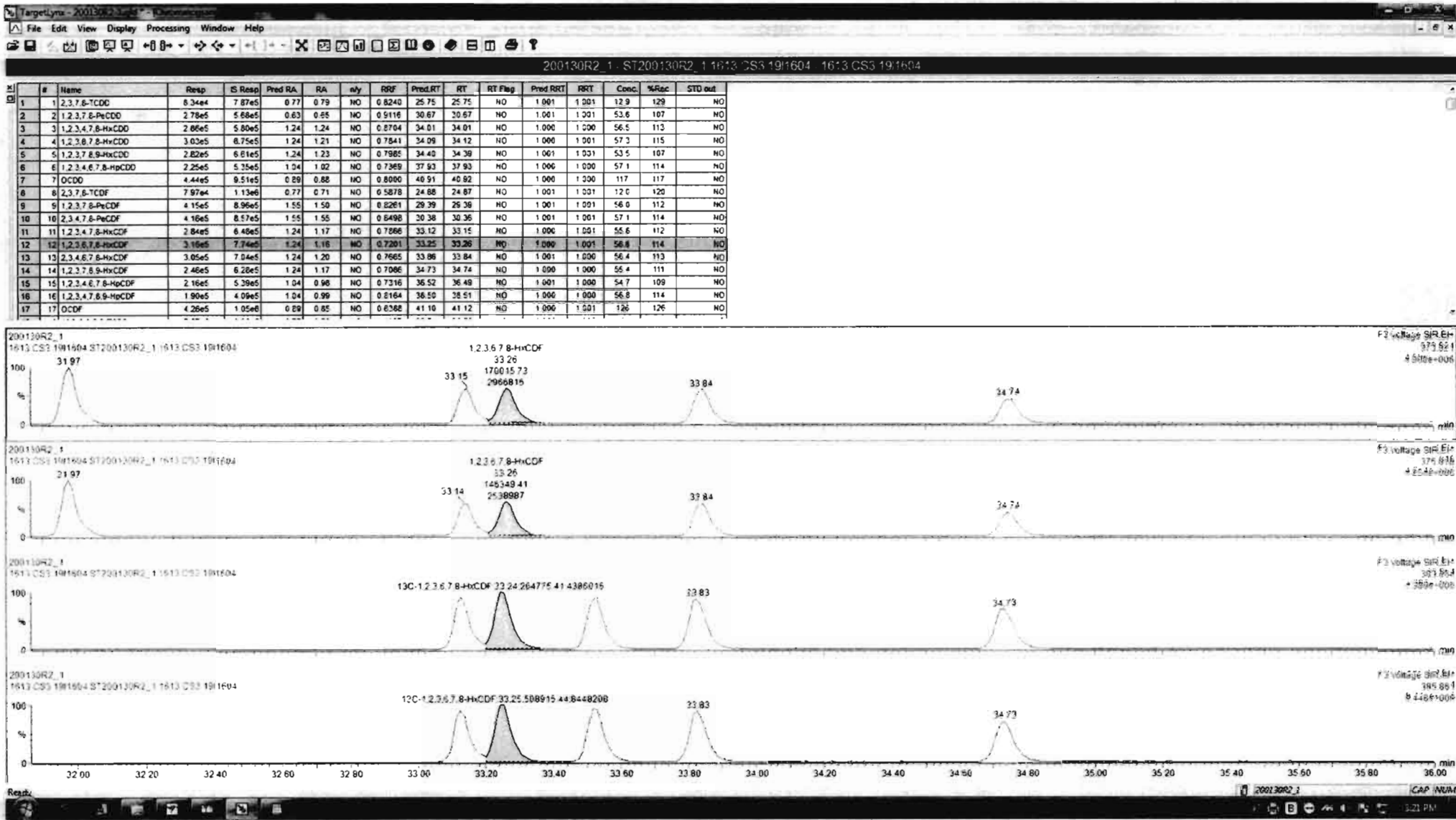


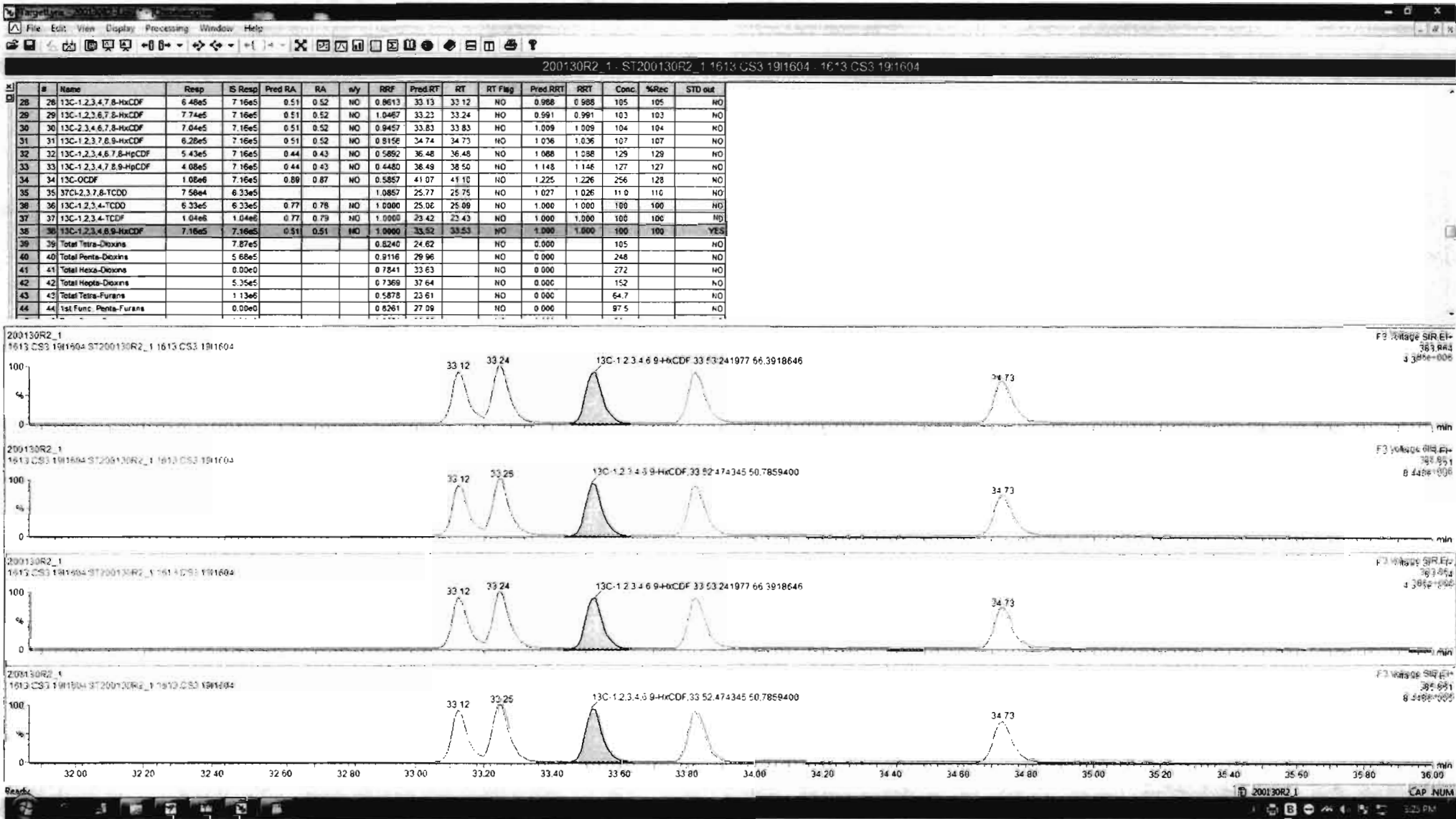
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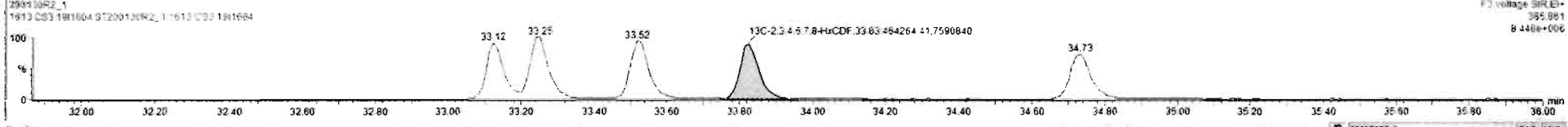
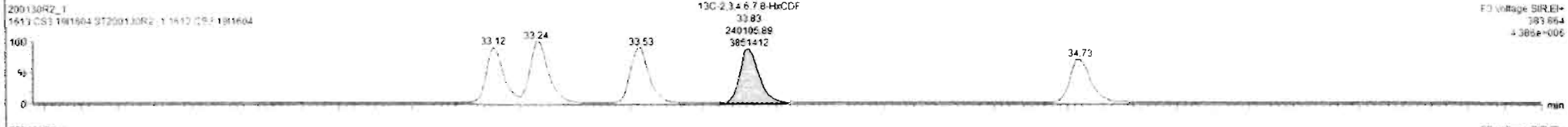
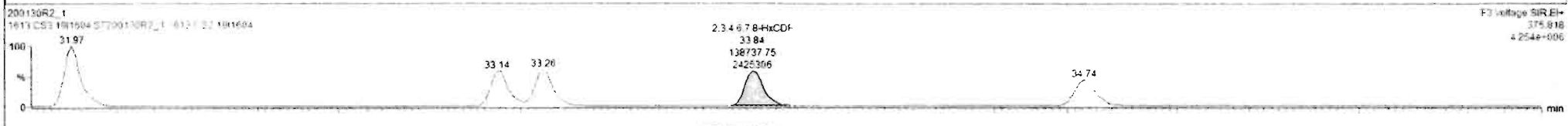
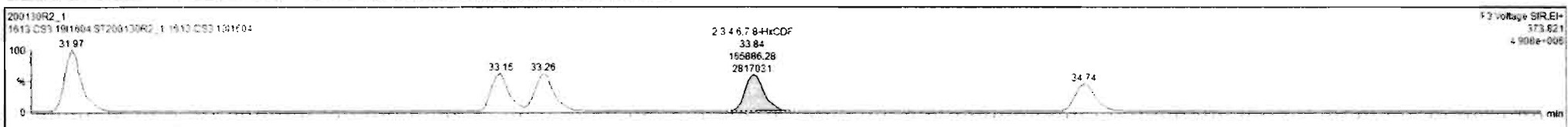


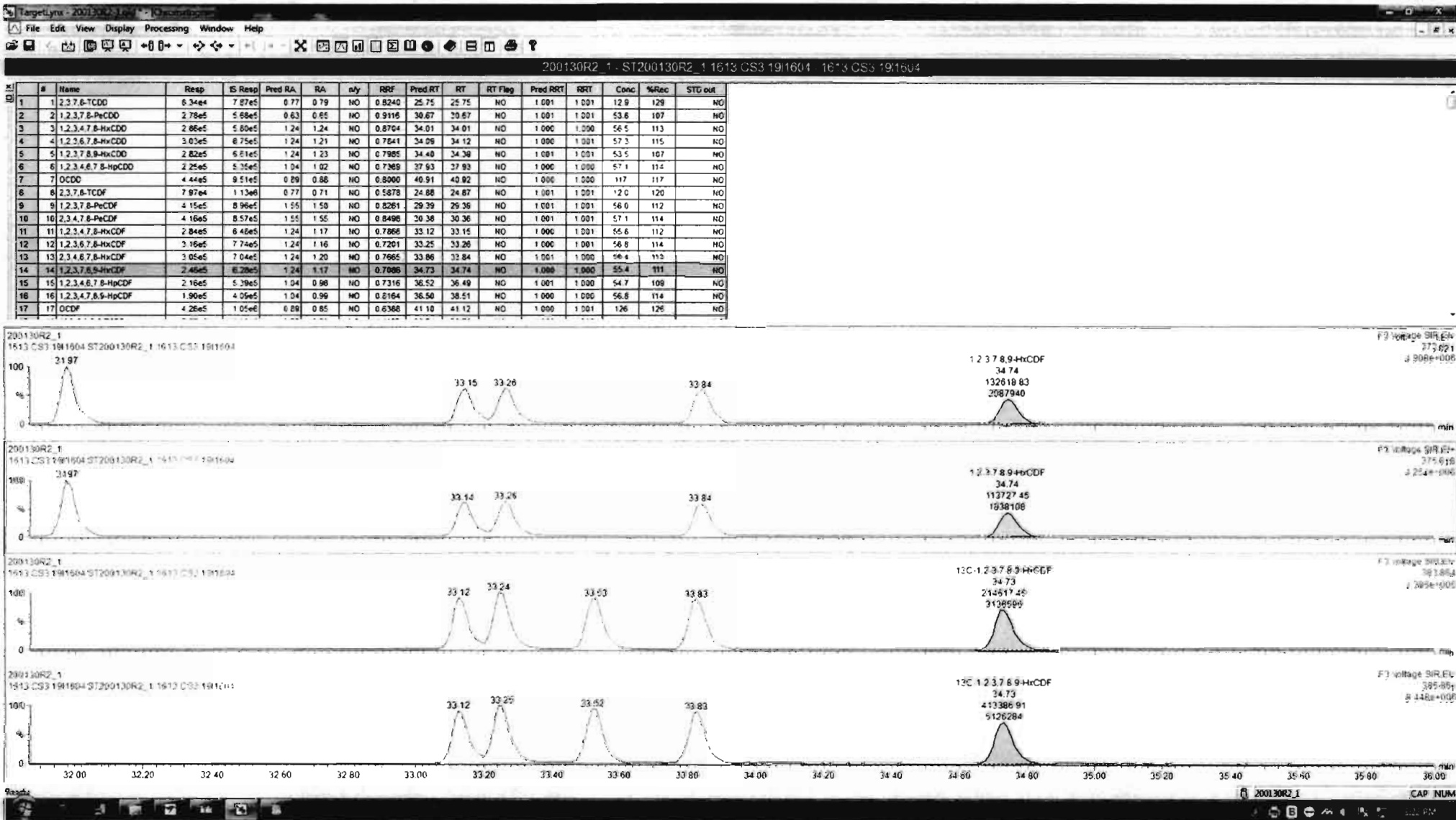






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2	1,2,3,7,8-PeCDD	2.78e5	5.68e5	0.63	0.65	NO	0.9116	30.67	30.67	NO	1.001	1.001	53.6	107	NO
3	1,2,3,4,7,8-HxCDD	2.86e5	5.80e5	1.24	1.24	NO	0.8764	34.01	34.01	NO	1.000	1.000	56.5	113	NO
4	1,2,3,6,7,8-HxCDD	3.03e5	6.75e5	1.24	1.21	NO	0.7841	34.09	34.12	NO	1.000	1.001	57.3	115	NO
5	1,2,3,7,8,9-HxCDD	2.82e5	6.61e5	1.24	1.23	NO	0.7965	34.40	34.39	NO	1.001	1.001	53.5	107	NO
6	1,2,3,4,6,7,8-HpCDD	2.25e5	5.25e5	1.04	1.02	NO	0.7369	37.53	37.93	NO	1.000	1.000	57.1	114	NO
7	OCDD	4.44e5	9.51e5	0.89	0.88	NO	0.8000	40.91	40.82	NO	1.000	1.000	117	117	NO
8	2,3,7,8-TCDF	7.97e4	1.13e6	0.77	0.71	NO	0.5878	24.88	24.87	NO	1.001	1.001	12.0	120	NO
9	1,2,3,7,8-PeCDF	4.15e5	8.96e5	1.55	1.55	NO	0.8261	29.39	29.38	NO	1.001	1.001	58.0	112	NO
10	2,3,4,7,8-PeCDF	4.16e5	8.57e5	1.55	1.55	NO	0.8498	30.38	30.36	NO	1.001	1.001	57.1	114	NO
11	1,2,3,4,7,8-HxCDF	2.84e5	6.48e5	1.24	1.17	NO	0.7866	33.12	33.15	NO	1.000	1.001	55.6	112	NO
12	1,2,3,6,7,8-HxCDF	3.16e5	7.74e5	1.24	1.16	NO	0.7201	33.25	33.28	NO	1.000	1.001	58.8	114	NO
13	2,3,4,6,7,8-HxCDF	3.05e5	7.04e5	1.24	1.20	NO	0.7665	33.86	33.84	NO	1.001	1.000	56.4	113	NO
14	1,2,3,7,8,9-HxCDF	2.48e5	6.28e5	1.24	1.17	NO	0.7086	34.73	34.74	NO	1.000	1.000	55.4	111	NO
15	1,2,3,4,6,7,8-HpCDF	2.16e5	5.29e5	1.04	0.98	NO	0.7316	36.52	36.49	NO	1.001	1.000	54.7	109	NO
16	1,2,3,4,7,8,9-HpCDF	1.90e5	4.09e5	1.04	0.99	NO	0.8164	38.50	38.51	NO	1.000	1.000	56.8	114	NO
17	OCDF	4.26e5	1.05e6	0.88	0.85	NO	0.8380	41.10	41.12	NO	1.000	1.001	126	126	NO



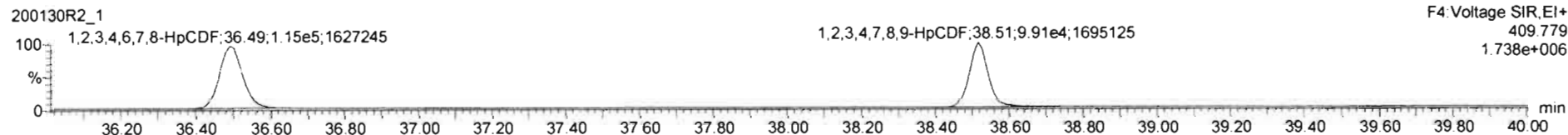


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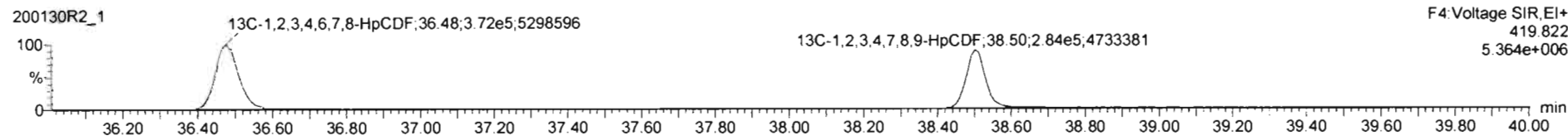
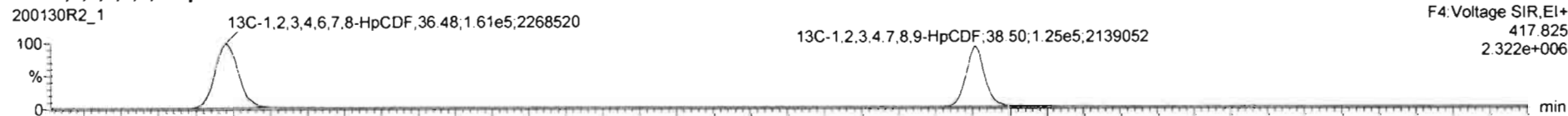
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Name: 200130R2_1, Date: 30-Jan-2020, Time: 14:14:22, ID: ST200130R2_1 1613 CS3 1911604, Description: 1613 CS3 1911604

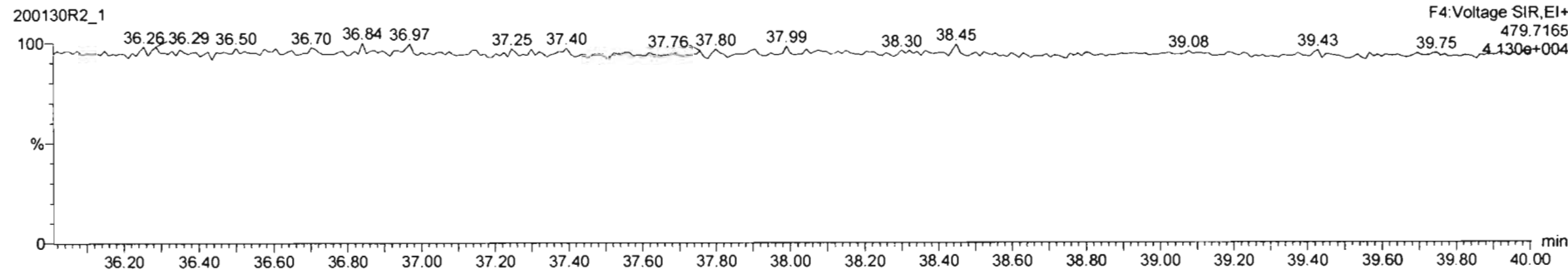
1,2,3,4,6,7,8-HpCDF

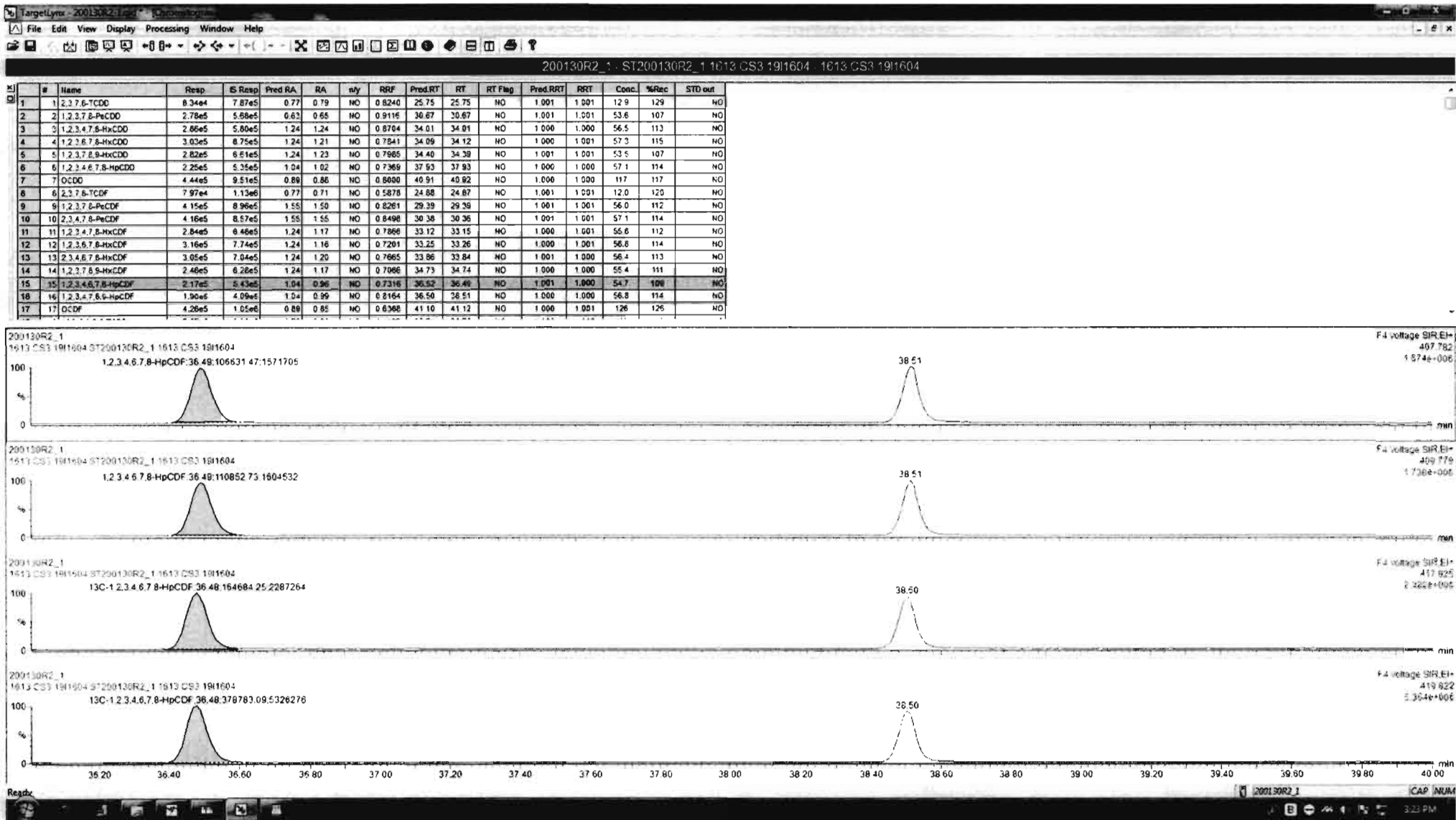


13C-1,2,3,4,6,7,8-HpCDF

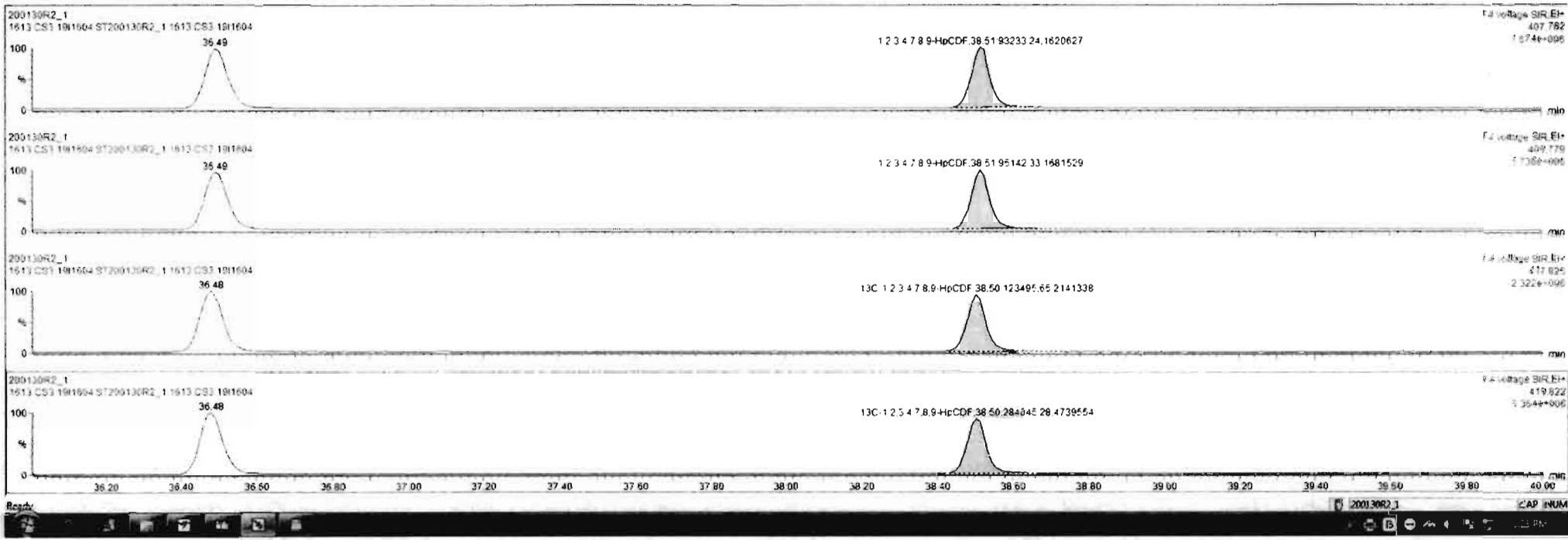


DPE4





#	Name	Resp	IS 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	8.34e4	7.87e5	0.77	0.79	NO	0.8240	25.75	25.75	NO	1.001	1.001	12.9	129	NO
2	1,2,3,7,8-PeCDD	2.78e5	5.58e5	0.63	0.65	NO	0.9115	30.67	30.67	NO	1.001	1.001	53.6	107	NO
3	1,2,3,4,7,8-HxCDD	2.86e5	5.80e5	1.24	1.24	NO	0.8704	34.01	34.01	NO	1.000	1.000	56.5	113	NO
4	1,2,3,6,7,8-HxCDD	3.03e5	6.75e5	1.24	1.21	NO	0.7841	34.09	34.12	NO	1.000	1.001	57.3	115	NO
5	1,2,3,7,8-HxCDD	2.82e5	6.61e5	1.24	1.23	NO	0.7985	34.40	34.39	NO	1.001	1.001	53.5	107	NO
6	1,2,3,4,6,7,8-HpCDD	2.25e5	5.25e5	1.04	1.02	NO	0.7369	37.93	37.93	NO	1.000	1.000	57.1	114	NO
7	OCDD	4.44e5	9.51e5	0.69	0.68	NO	0.8900	40.91	40.92	NO	1.000	1.000	117	117	NO
8	2,3,7,8-TCDF	7.97e4	1.13e6	0.77	0.71	NO	0.5878	24.88	24.87	NO	1.001	1.001	12.0	120	NO
9	1,2,3,7,8-PeCDF	4.15e5	8.96e5	1.55	1.50	NO	0.8261	29.39	29.39	NO	1.001	1.001	56.0	112	NO
10	1,2,3,4,7,8-PeCDF	4.16e5	8.57e5	1.55	1.55	NO	0.8498	30.38	30.36	NO	1.001	1.001	57.1	114	NO
11	1,2,3,4,7,8-HxCDF	2.84e5	6.48e5	1.24	1.17	NO	0.7866	33.12	33.15	NO	1.000	1.001	55.6	112	NO
12	1,2,3,6,7,8-HxCDF	3.16e5	7.74e5	1.24	1.16	NO	0.7201	33.25	33.26	NO	1.000	1.001	56.8	114	NO
13	1,2,3,4,6,7,8-HxCDF	3.05e5	7.04e5	1.24	1.20	NO	0.7665	33.86	33.84	NO	1.001	1.000	56.4	113	NO
14	1,2,3,7,8,9-HxCDF	2.46e5	6.28e5	1.24	1.17	NO	0.7086	34.73	34.74	NO	1.000	1.000	55.4	111	NO
15	1,2,3,4,6,7,8-HpCDF	2.17e5	5.43e5	1.04	0.96	NO	0.7316	36.52	36.49	NO	1.001	1.000	54.7	109	NO
16	1,2,3,4,7,8,9-HpCDF	1.88e5	4.08e5	1.04	0.98	NO	0.8184	38.50	38.51	NO	1.000	1.000	58.6	113	NO
17	OCDF	4.28e5	1.05e6	0.89	0.85	NO	0.6588	41.10	41.12	NO	1.000	1.001	126	126	NO



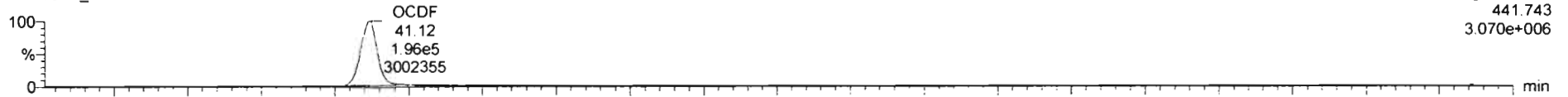
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Last Altered: Thursday, January 30, 2020 15:26:25 Pacific Standard Time
Printed: Thursday, January 30, 2020 15:26:36 Pacific Standard Time

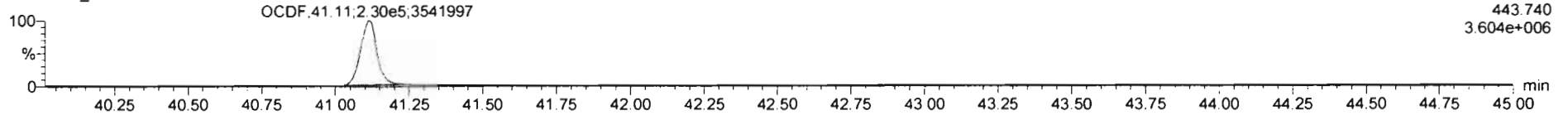
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OCDF

200130R2_1

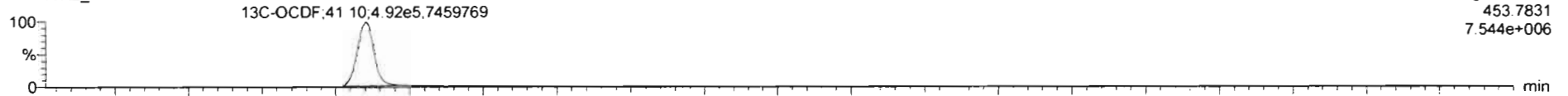


200130R2_1

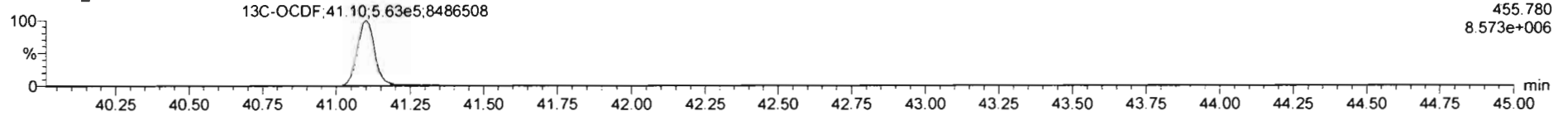


13C-OCDF

200130R2_1

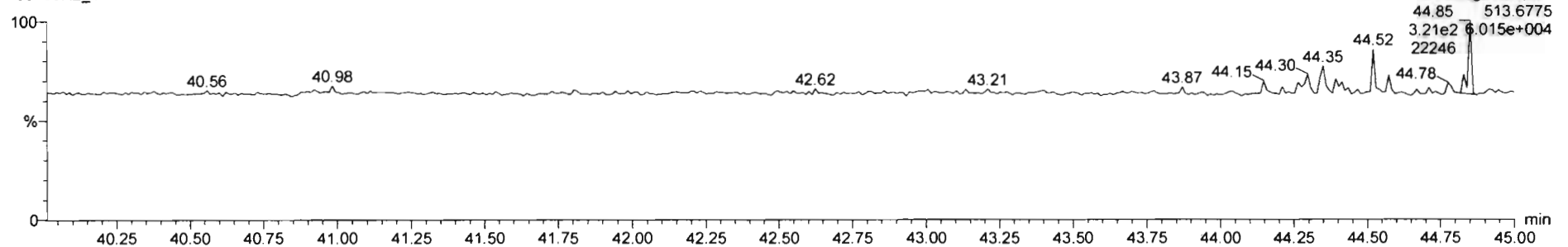


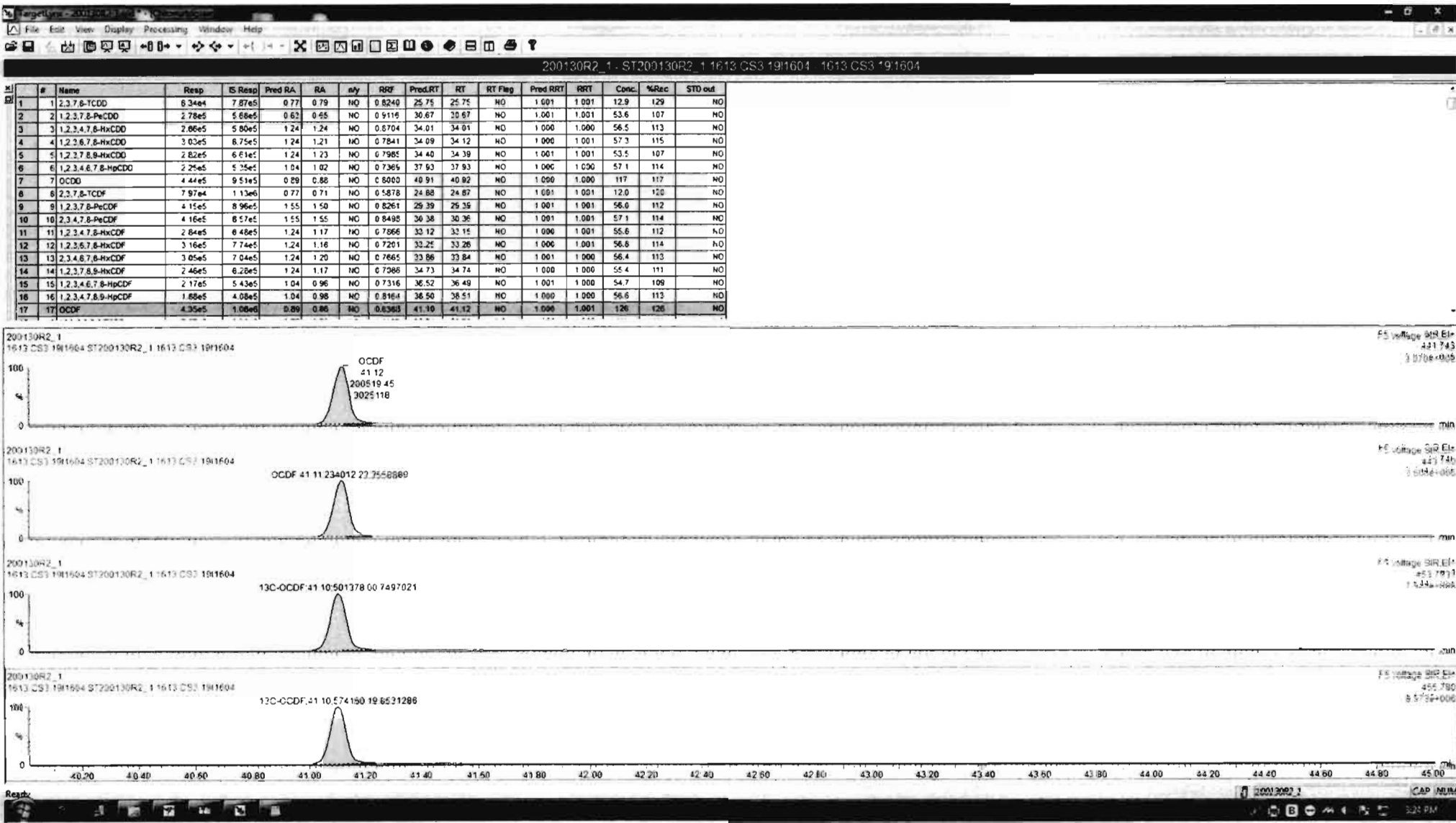
200130R2_1



DPE5

200130R2_1





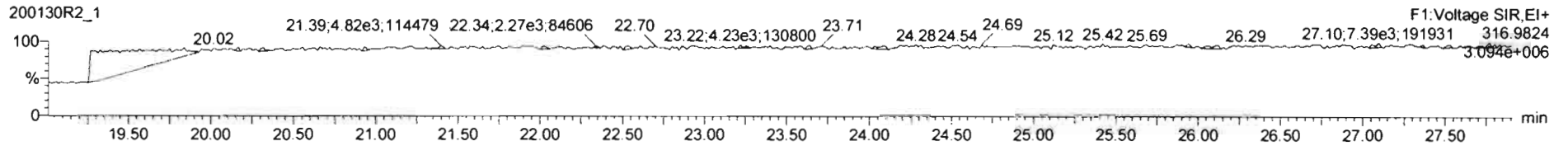
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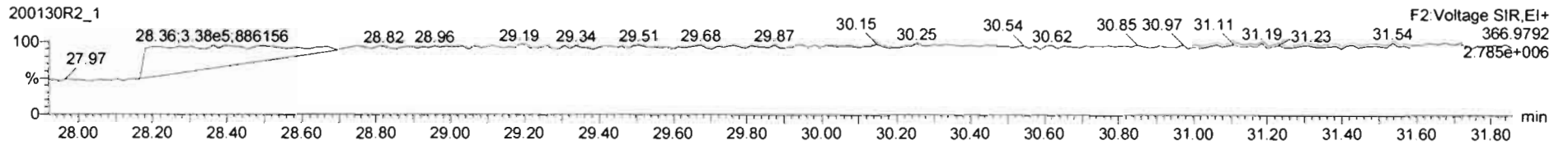
Printed: Thursday, January 30, 2020 15:26:36 Pacific Standard Time

Name: 200130R2_1, Date: 30-Jan-2020, Time: 14:14:22, ID: ST200130R2_1 1613 CS3 1911604, Description: 1613 CS3 1911604

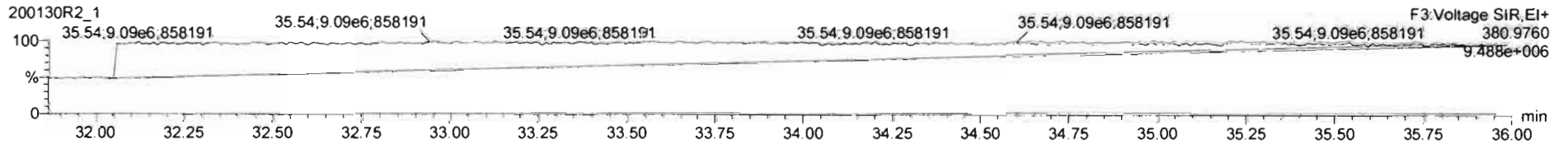
PFK1



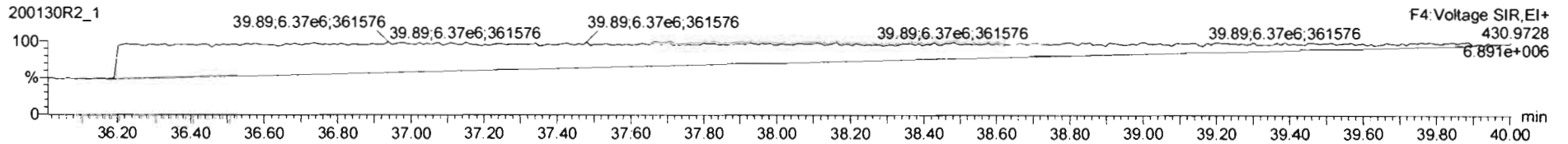
PFK2



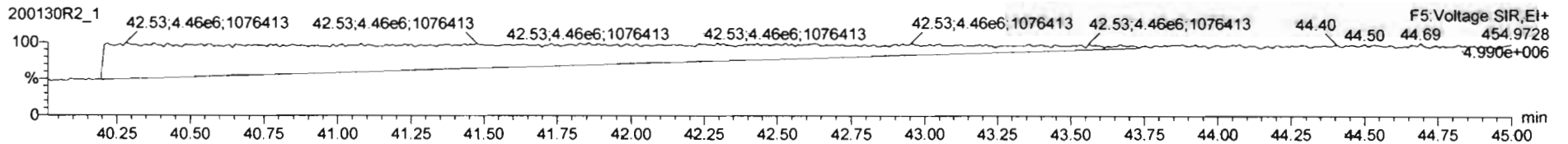
PFK3



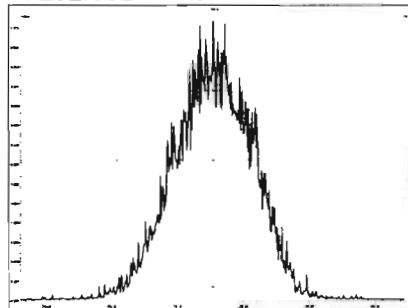
PFK4



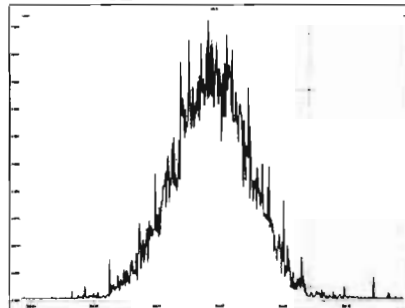
PFK5



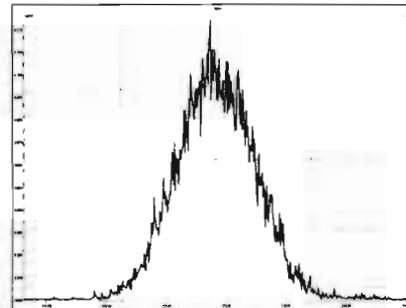
M 292.9824 R 10927



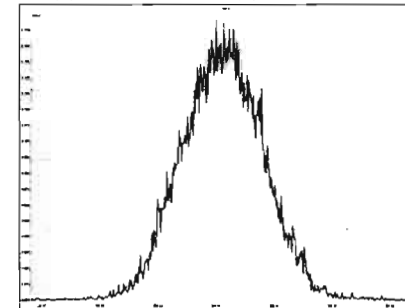
M 304.9824 R 10894



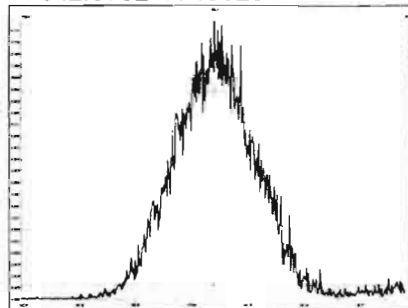
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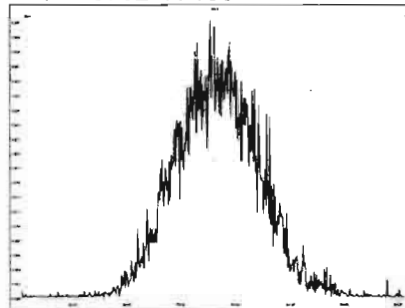
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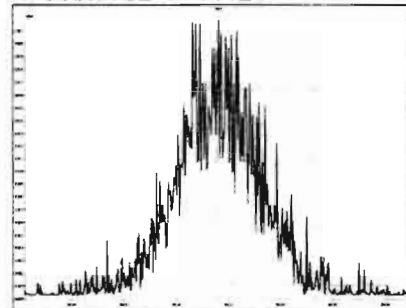
M 342.9792 R 10920



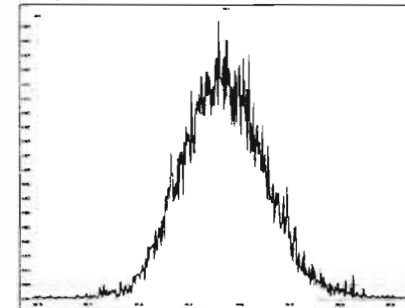
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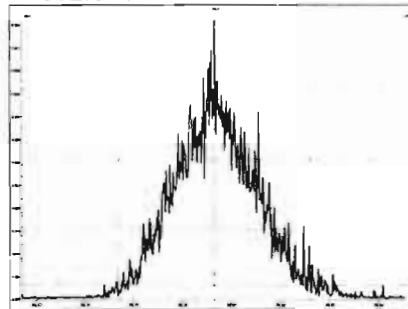
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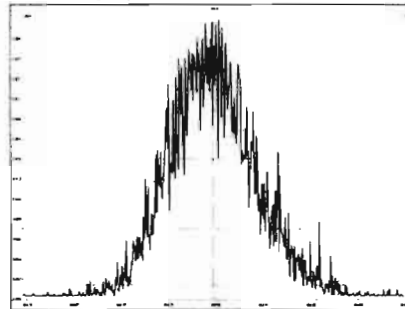
M 380.9760 R 10151



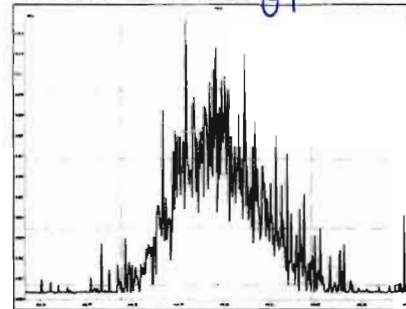
M 392.9760 R 10617



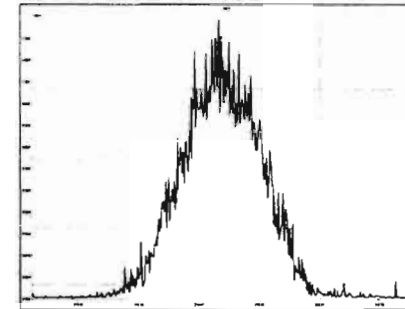
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M 416.9760 R 9925 *OK*

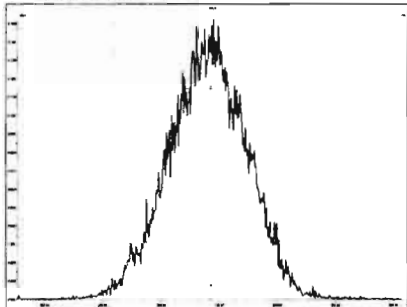


M 318.9792 R 11087

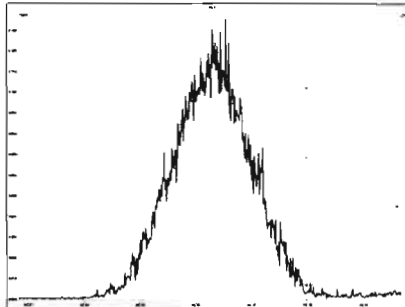


Printed: Friday, January 31, 2020 02:20:30 Pacific Standard Time

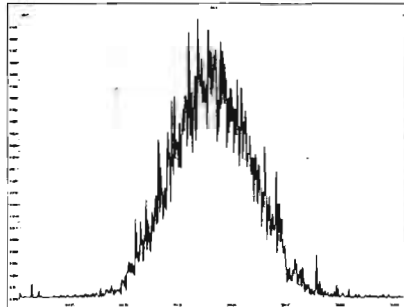
M 330.9792 R 10742



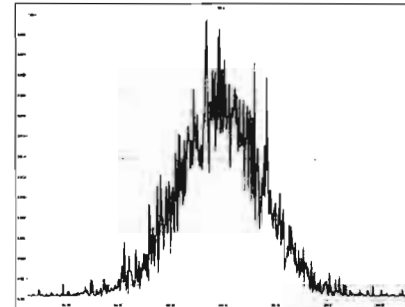
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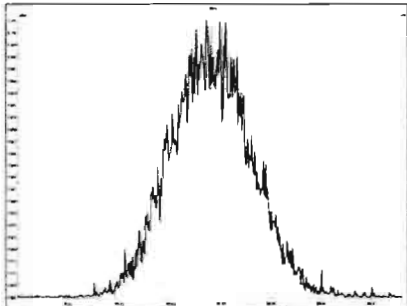
M 354.9792 R 10714



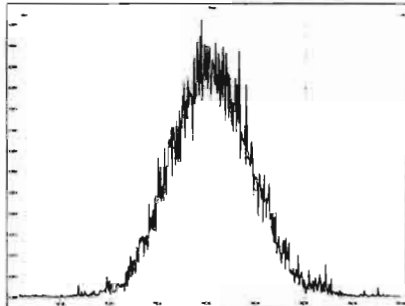
M 366.9792 R 10882



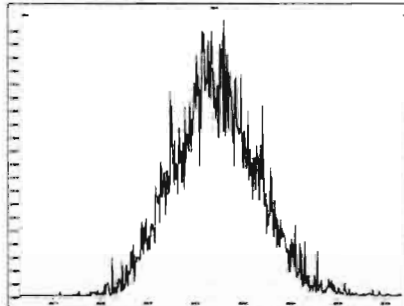
M 380.9760 R 10460



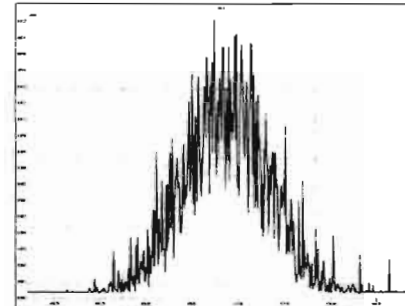
M 392.9760 R 10822



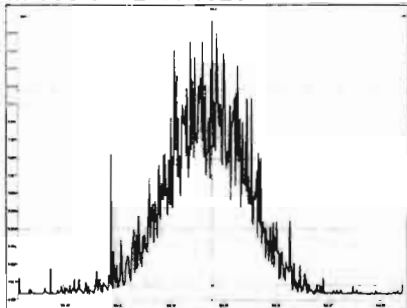
M 404.9760 R 10869



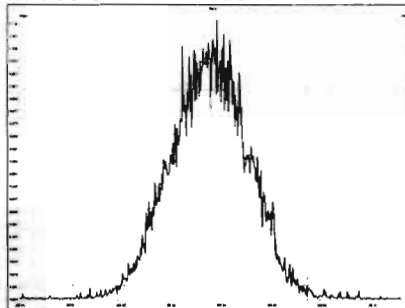
M 416.9760 R 10495



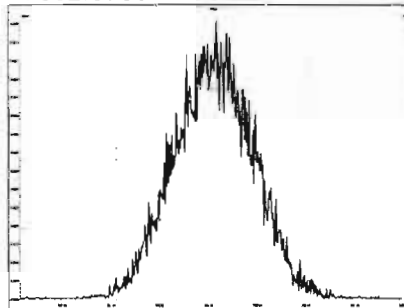
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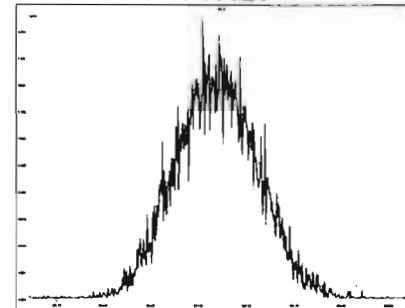
M 380.9760 R 10969



M 392.9760 R 11263

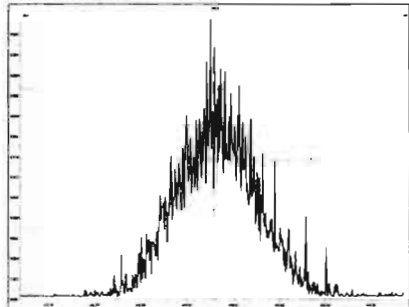


M 404.9760 R 10823

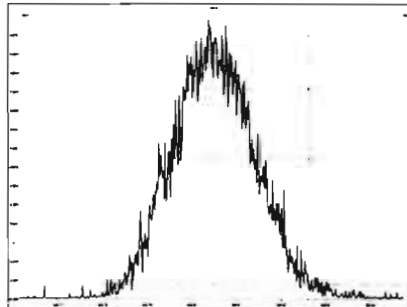


Printed: Friday, January 31, 2020 02:20:30 Pacific Standard Time

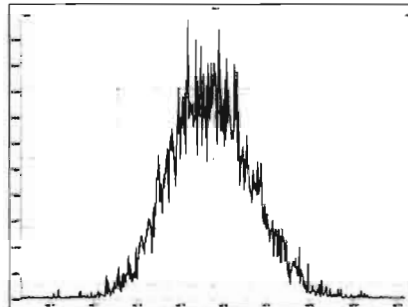
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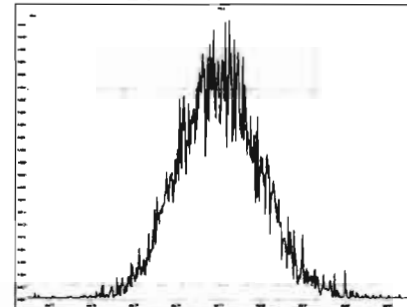
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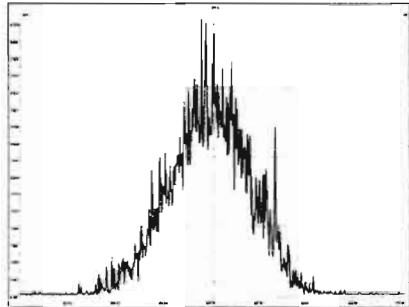
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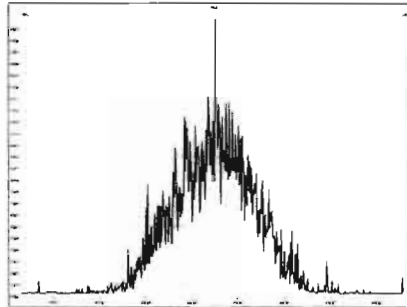
M 454.9728 R 10904



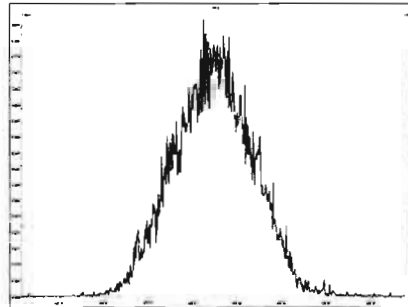
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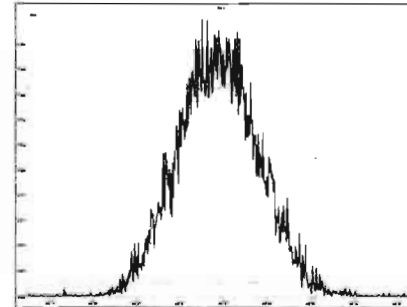
M 416.9760 R 11653



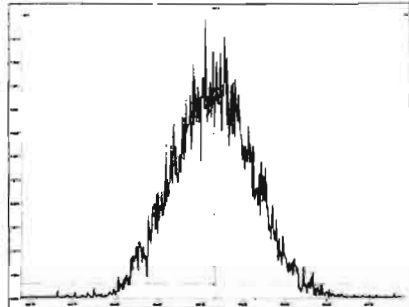
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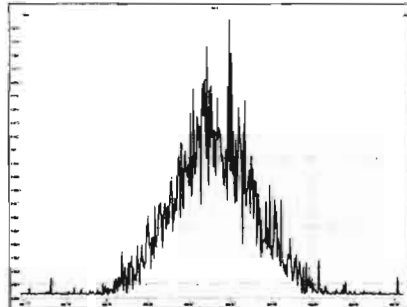
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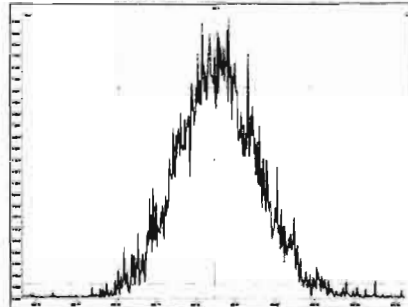
M 454.9728 R 10849



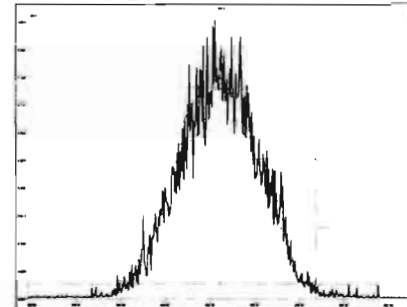
M 466.9728 R 10727



M 480.9696 R 10570

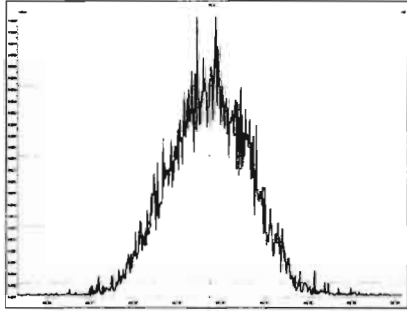


M 430.9728 R 10776

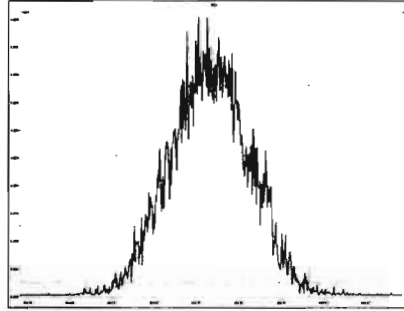


Printed: Friday, January 31, 2020 02:20:30 Pacific Standard Time

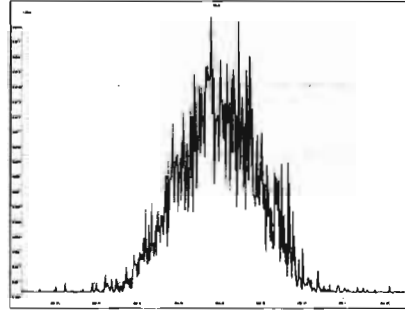
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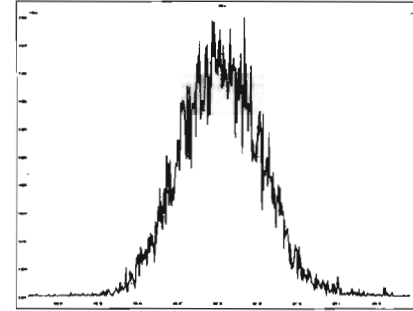
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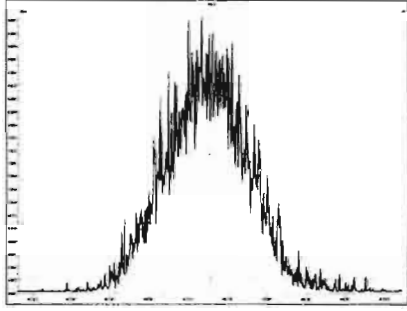
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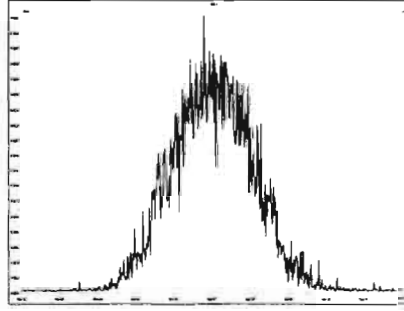
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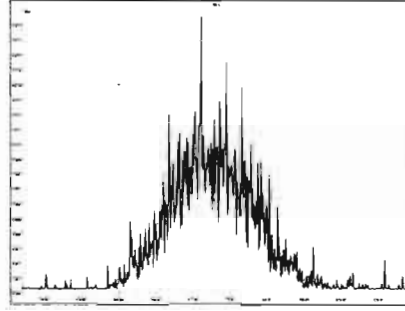
M 492.9696 R 11063



M 504.9696 R 11072



M 516.9697 R 10752



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200130R3-1

Reviewed By: Q1 02/04/2020
Initials & Date

End Calibration ID: NA

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

Mass resolution ≥

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Integrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<input type="checkbox"/>	<input type="checkbox"/> NA

Comments:

(A) BOTH BEG. & END RES CHECK HAD 1-2 MASSES BELOW 10K.

Dataset: U:\VG12.PRO\Results\200130R3\200130R3-2.qld

Last Altered: Friday, January 31, 2020 15:57:02 Pacific Standard Time
Printed: Friday, January 31, 2020 16:01:44 Pacific Standard Time

GRS 01/31/2020

CT 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_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R3_2, Date: 31-Jan-2020, Time: 03:53:47, ID: ST200130R3_1 1613 CS3 1911604, Description: 1613 CS3 1911604

#	Name	Resp	IS Flag	IS	ay	RF	Pre-RT	RT	RF Flag	Pre-Int	Int	Comp	Mass	STD
1	1,2,3,7,8-TCDD	6.09e4	6.36e5	0.78	NO	0.824	25.72	25.72	NO	1.001	1.001	11.624	116	NO
2	1,2,3,7,8-PeCDD	2.42e5	5.03e5	0.63	NO	0.912	30.66	30.65	NO	1.001	1.001	52.730	105	NO
3	1,2,3,4,7,8-HxCDD	2.25e5	4.48e5	1.20	NO	0.870	33.99	34.00	NO	1.000	1.001	57.830	116	NO
4	1,2,3,6,7,8-HxCDD	2.32e5	5.09e5	1.19	NO	0.784	34.08	34.09	NO	1.000	1.000	58.049	116	NO
5	1,2,3,7,8,9-HxCDD	2.20e5	4.85e5	1.23	NO	0.798	34.39	34.37	NO	1.001	1.000	56.897	114	NO
6	1,2,3,4,6,7,8-HpCDD	1.75e5	4.27e5	0.97	NO	0.737	37.91	37.92	NO	1.000	1.001	55.516	111	NO
7	OCDD	3.60e5	7.79e5	0.86	NO	0.800	40.90	40.91	NO	1.000	1.000	115.38	115	NO
8	2,3,7,8-TCDF	6.40e4	9.08e5	0.74	NO	0.588	24.83	24.84	NO	1.001	1.001	11.984	120	NO
9	1,2,3,7,8-PeCDF	3.45e5	7.46e5	1.52	NO	0.826	29.38	29.37	NO	1.001	1.001	55.906	112	NO
10	2,3,4,7,8-PeCDF	3.53e5	7.32e5	1.55	NO	0.850	30.36	30.35	NO	1.001	1.001	56.695	113	NO
11	1,2,3,4,7,8-HxCDF	2.18e5	4.95e5	1.18	NO	0.787	33.11	33.13	NO	1.000	1.000	55.913	112	NO
12	1,2,3,6,7,8-HxCDF	2.40e5	5.88e5	1.15	NO	0.720	33.24	33.25	NO	1.000	1.001	56.740	113	NO
13	2,3,4,6,7,8-HxCDF	2.31e5	5.30e5	1.16	NO	0.766	33.85	33.83	NO	1.001	1.000	56.760	114	NO
14	1,2,3,7,8,9-HxCDF	1.89e5	4.78e5	1.19	NO	0.709	34.72	34.73	NO	1.000	1.000	55.960	112	NO
15	1,2,3,4,6,7,8-HpCDF	1.63e5	4.09e5	0.98	NO	0.732	36.51	36.48	NO	1.001	1.000	54.380	109	NO
16	1,2,3,4,7,8,9-HpCDF	1.36e5	2.91e5	0.96	NO	0.816	38.49	38.50	NO	1.000	1.000	57.132	114	NO
17	OCDF	3.31e5	8.32e5	0.84	NO	0.639	41.09	41.10	NO	1.000	1.000	124.52	125	NO
18	13C-2,3,7,8-TCDD	6.36e5	5.51e5	0.79	NO	1.12	25.69	25.69	NO	1.026	1.026	103.38	103	NO
19	13C-1,2,3,7,8-PeCDD	5.03e5	5.51e5	0.63	NO	0.841	30.43	30.64	NO	1.215	1.223	108.53	109	NO
20	13C-1,2,3,4,7,8-HxCDD	4.48e5	5.45e5	1.28	NO	0.938	33.98	33.98	NO	1.014	1.014	87.668	87.7	NO
21	13C-1,2,3,6,7,8-HxCDD	5.09e5	5.45e5	1.28	NO	1.07	34.08	34.08	NO	1.017	1.017	87.749	87.7	NO
22	13C-1,2,3,7,8,9-HxCDD	4.85e5	5.45e5	1.24	NO	1.03	34.38	34.36	NO	1.026	1.025	86.448	86.4	NO
23	13C-1,2,3,4,6,7,8-HpCDD	4.27e5	5.45e5	1.06	NO	0.710	37.93	37.90	NO	1.132	1.131	110.44	110	NO
24	13C-OCDD	7.79e5	5.45e5	0.90	NO	0.801	40.81	40.90	NO	1.218	1.221	238.04	119	NO
25	13C-2,3,7,8-TCDF	9.08e5	7.97e5	0.78	NO	1.04	24.87	24.81	NO	0.993	0.990	109.88	110	NO
26	13C-1,2,3,7,8-PeCDF	7.46e5	7.97e5	1.58	NO	0.917	29.20	29.35	NO	1.166	1.172	102.08	102	NO
27	13C-2,3,4,7,8-PeCDF	7.32e5	7.97e5	1.58	NO	0.903	30.16	30.33	NO	1.204	1.211	101.77	102	NO
28	13C-1,2,3,4,7,8-HxCDF	4.95e5	5.45e5	0.52	NO	0.861	33.11	33.11	NO	0.988	0.988	105.55	106	NO
29	13C-1,2,3,6,7,8-HxCDF	5.88e5	5.45e5	0.52	NO	1.05	33.21	33.23	NO	0.991	0.992	103.16	103	NO
30	13C-2,3,4,6,7,8-HxCDF	5.30e5	5.45e5	0.52	NO	0.946	33.81	33.82	NO	1.009	1.009	103.00	103	NO
31	13C-1,2,3,7,8,9-HxCDF	4.78e5	5.45e5	0.52	NO	0.816	34.71	34.72	NO	1.036	1.036	107.59	108	NO

Dataset: U:\VG12.PRO\Results\200130R3\200130R3-2.qld

Last Altered: Friday, January 31, 2020 15:57:02 Pacific Standard Time

Printed: Friday, January 31, 2020 16:01:44 Pacific Standard Time

Name: 200130R3_2, Date: 31-Jan-2020, Time: 03:53:47, ID: ST200130R3_1 1613 CS3 1911604, Description: 1613 CS3 1911604

32	13C-1,2,3,4,6,7,8-HpCDF	4.09e5	5.45e5	0.45	NO	0.589	36.46	36.47	NO	1.088	1.088	127.60	128	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.91e5	5.45e5	0.44	NO	0.448	38.47	38.49	NO	1.148	1.149	119.44	119	NO
34	13C-OCDF	8.32e5	5.45e5	0.87	NO	0.586	41.05	41.09	NO	1.225	1.226	260.87	130	NO
35	37Cl-2,3,7,8-TCDD	6.30e4	5.51e5			1.09	25.72	25.70	NO	1.027	1.026	10.531	105	NO
36	13C-1,2,3,4-TCDD	5.51e5	5.51e5	0.80	NO	1.00	25.08	25.05	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	7.97e5	7.97e5	0.79	NO	1.00	23.42	23.39	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	5.45e5	5.45e5	0.51	NO	1.00	33.52	33.51	NO	1.000	1.000	100.00	100	YES <i>OK</i>
39	Total Tetra-Dioxins		6.36e5			0.824	24.82		NO	0.000		98.200		NO
40	Total Penta-Dioxins		5.03e5			0.912	29.96		NO	0.000		219.99		NO
41	Total Hexa-Dioxins		0.00e0			0.784	33.63		NO	0.000		280.21		NO
42	Total Hepta-Dioxins		4.27e5			0.737	37.64		NO	0.000		145.71		NO
43	Total Tetra-Furans		9.08e5			0.588	23.61		NO	0.000		55.699		NO
44	1st Func. Penta-Furans		0.00e0			0.826	27.09		NO	0.000				NO
45	Total Penta-Furans		0.00e0			0.826	29.27		NO	0.000		191.46		NO
46	Total Hexa-Furans		0.00e0			0.766	33.56		NO	0.000		313.85		NO
47	Total Hepta-Furans		0.00e0			0.732	37.83		NO	0.000		111.49		NO

Dataset: Untitled

Last Altered: Friday, January 31, 2020 15:50:36 Pacific Standard Time
Printed: Friday, January 31, 2020 15:50:41 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\vb5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

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

Sample	Description	Acq Date	Acq Time
200130R3_1	SOLVENT BLANK	31-Jan-20	03:06:50
200130R3_2	ST200130R3_1 1613 CS3 1911604	31-Jan-20	03:53:47
200130R3_3	SOLVENT BLANK	31-Jan-20	04:40:47
200130R3_4	B0A0016-DUP1 Duplicate 15.46	31-Jan-20	05:27:46
200130R3_5	1903647-05 PDI-067SC-B-06-08-191010 12.18	31-Jan-20	06:14:54
200130R3_6	1903649-01 PDI-016SC-B-06-08-191009 14.36	31-Jan-20	07:01:52
200130R3_7	1904210-03 PDI-1138RAB-00-10-191118 11.96	31-Jan-20	07:48:52
200130R3_8	1904210-04 PDI-138RAB-00-10-191118 11.95	31-Jan-20	08:35:50
200130R3_9	1904210-05 PDI-138RAB-10-19.1-191118 12.97	31-Jan-20	09:22:49
200130R3_10	1904210-06 PDI-139RAB-00-10-191115 12.75	31-Jan-20	10:09:50
200130R3_11	1904210-07 PDI-139RAB-10-20-191115 13.5	31-Jan-20	10:56:50
200130R3_12	1904210-08 PDI-139RAB-20-25.5-191118 13.69	31-Jan-20	11:43:50
200130R3_13	1904210-09 PDI-145RAB-00-10-191114 10.92	31-Jan-20	12:30:49
200130R3_14	B0A0016-DUP2 Duplicate 11	31-Jan-20	13:17:52
200130R3_15	1904210-10 PDI-145RAB-10-20-191114 10.88	31-Jan-20	14:04:50
200130R3_16	1904210-11 PDI-145RAB-20-24.7-191114 10.91	31-Jan-20	14:51:50

Dataset: Untitled

Last Altered: Friday, January 31, 2020 15:49:38 Pacific Standard Time

Printed: Friday, January 31, 2020 15:49:43 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R3_2, Date: 31-Jan-2020, Time: 03:53:47, ID: ST200130R3_1 1613 CS3 1911604, Description: 1613 CS3 1911604

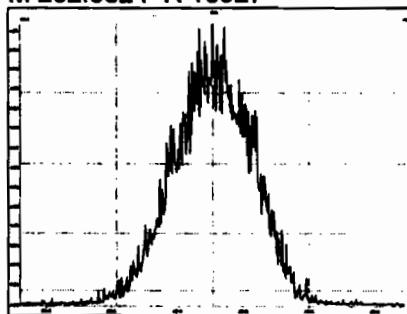
#	Name	RT
1	1,3,6,8-TCDD (First)	21.74
2	1,2,8,9-TCDD (Last)	26.66
3	1,2,4,7,9-PeCDD (First)	28.44
4	1,2,3,8,9-PeCDD (Last)	31.03
5	1,2,4,6,7,9-HxCDD (First)	32.51
6	1,2,3,7,8,9-HxCDD (Last)	34.37
7	1,2,3,4,6,7,9-HpCDD (First)	36.86
8	1,2,3,4,6,7,8-HpCDD (Last)	37.92
9	1,3,6,8-TCDF (First)	19.64
10	1,2,8,9-TCDF (Last)	26.81
11	1,3,4,6,8-PeCDF (First)	26.78
12	1,2,3,8,9-PeCDF (Last)	31.28
13	1,2,3,4,6,8-HxCDF (First)	31.96
14	1,2,3,7,8,9-HxCDF (Last)	34.73
15	1,2,3,4,6,7,8-HpCDF (First)	36.48
16	1,2,3,4,7,8,9-HpCDF (Last)	38.50

Resolution Check Report

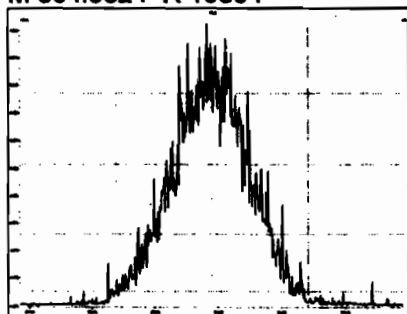
MassLynx 4.1 SCN815

Printed: Friday, January 31, 2020 02:20:30 Pacific Standard Time

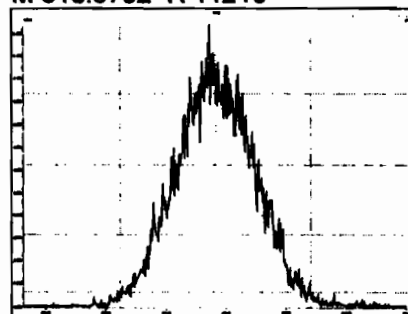
M 292.9824 R 10927



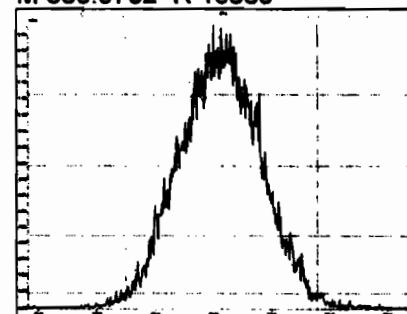
M 304.9824 R 10894



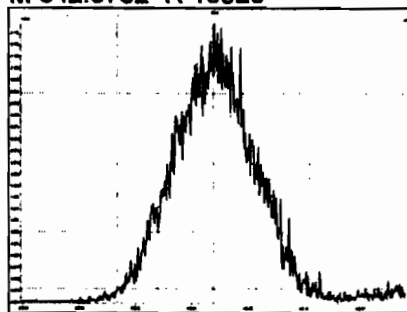
M 318.9792 R 11210



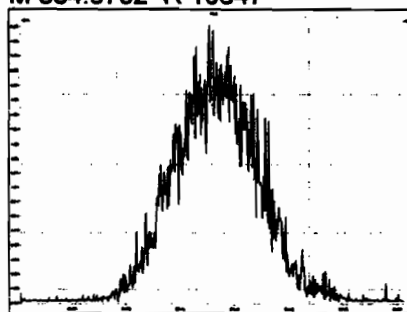
M 330.9792 R 10639



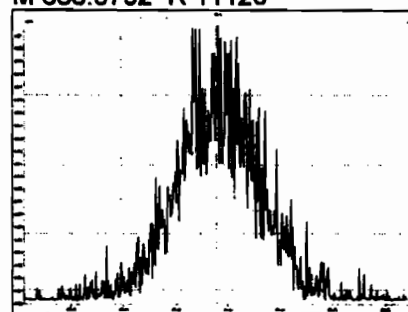
M 342.9792 R 10920



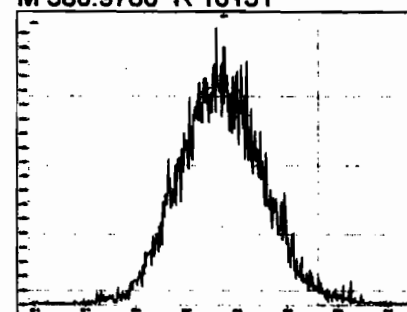
M 354.9792 R 10647



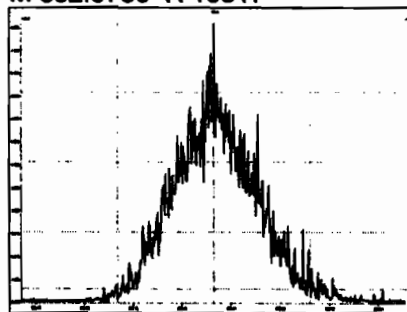
M 366.9792 R 11120



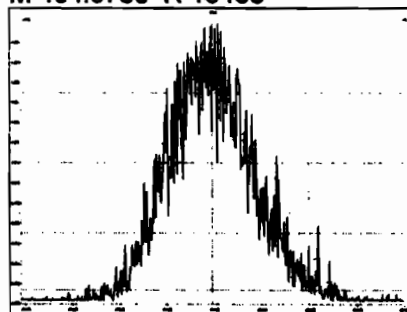
M 380.9760 R 10151



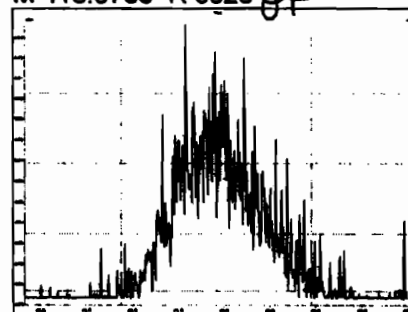
M 392.9760 R 10617



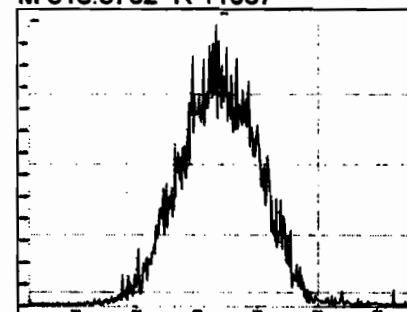
M 404.9760 R 10458



M 416.9760 R 9925 *OK*

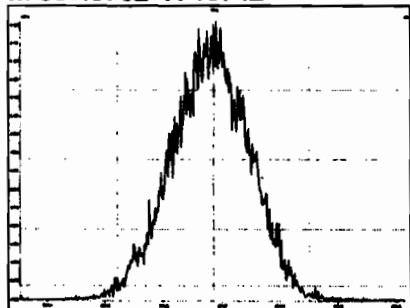


M 318.9792 R 11087

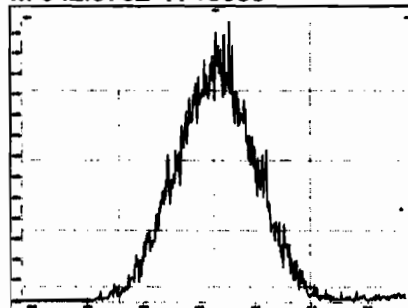


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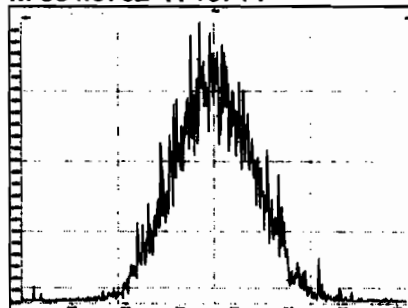
M 330.9792 R 10742



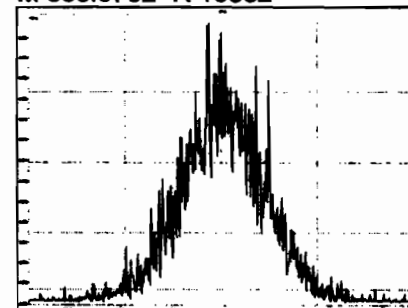
M 342.9792 R 10969



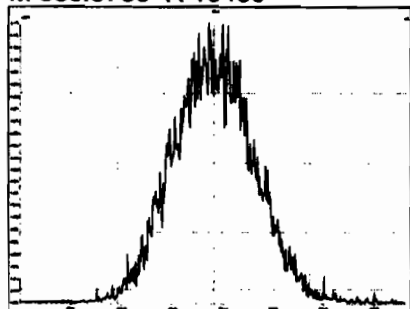
M 354.9792 R 10714



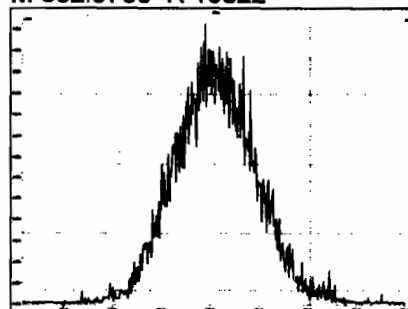
M 366.9792 R 10882



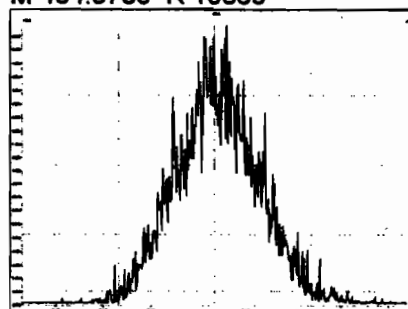
M 380.9760 R 10460



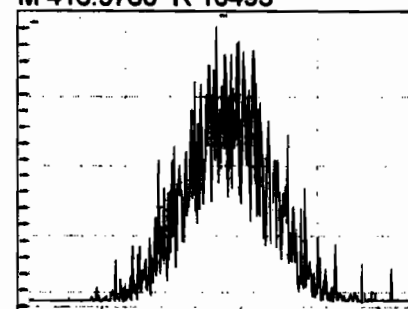
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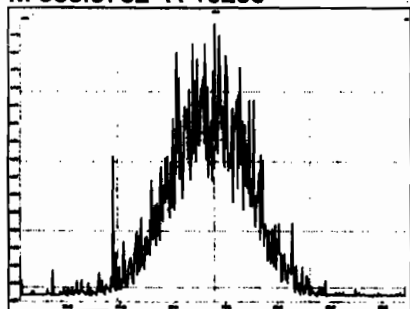
M 404.9760 R 10869



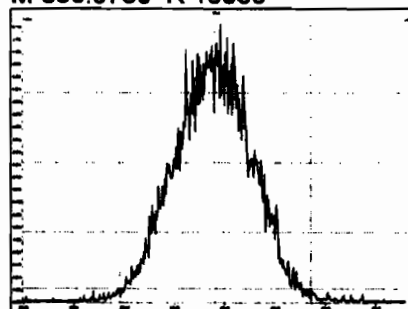
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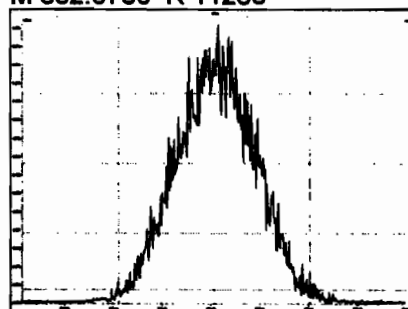
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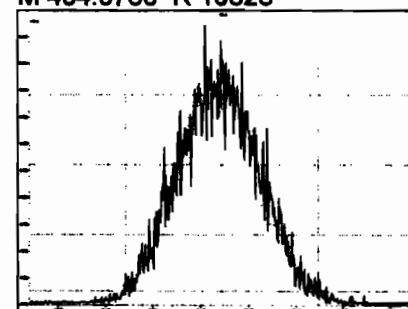
M 380.9760 R 10969



M 392.9760 R 11263

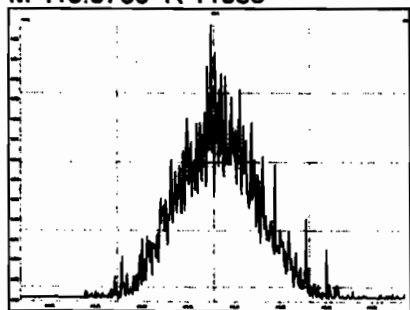


M 404.9760 R 10823

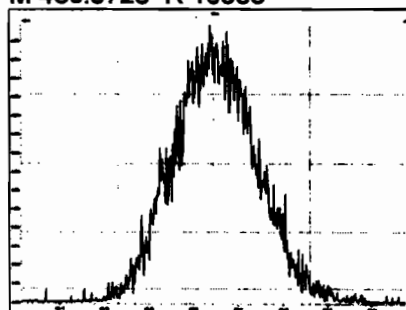


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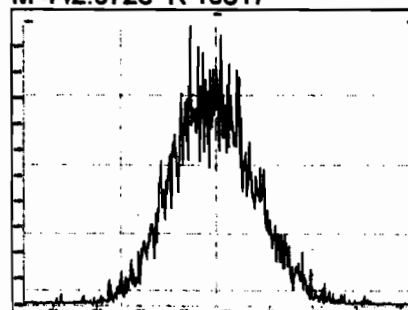
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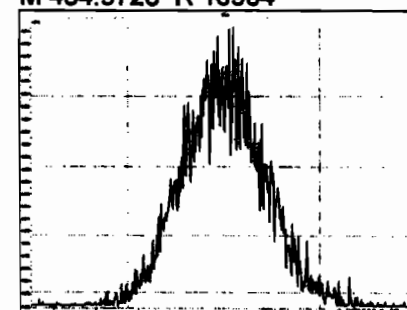
M 430.9728 R 10963



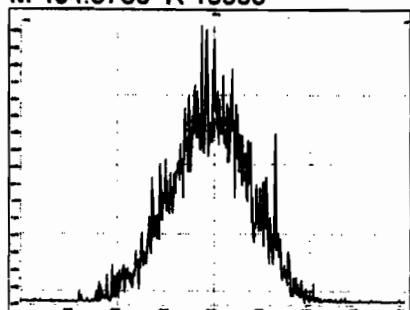
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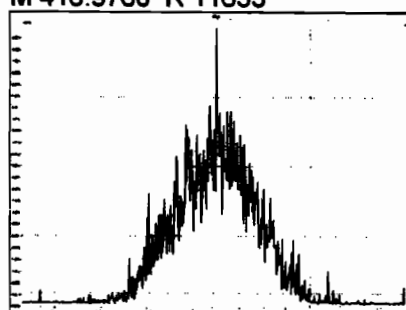
M 454.9728 R 10904



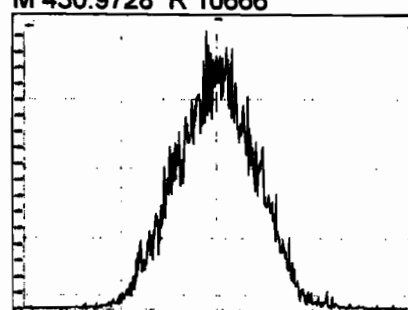
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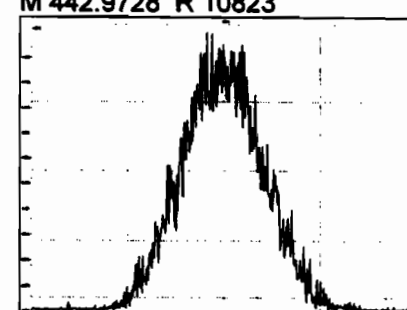
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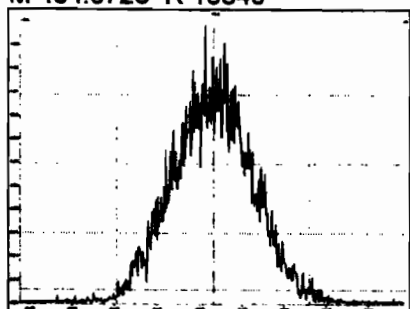
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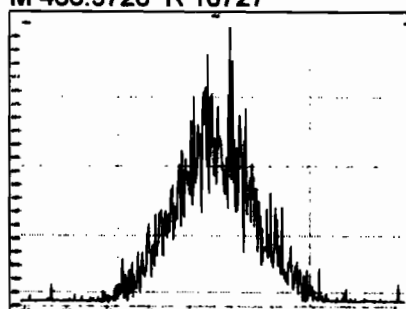
M 442.9728 R 10823



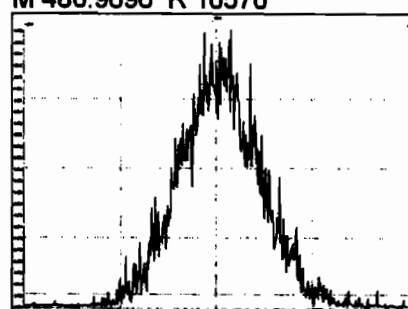
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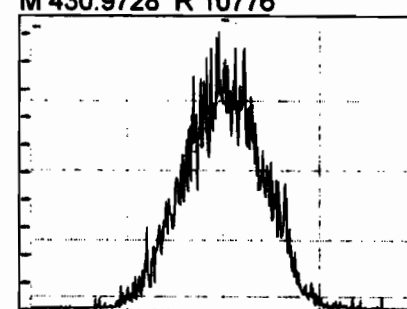
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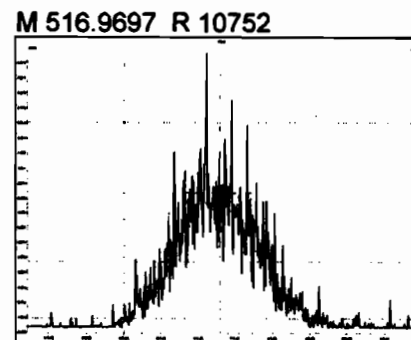
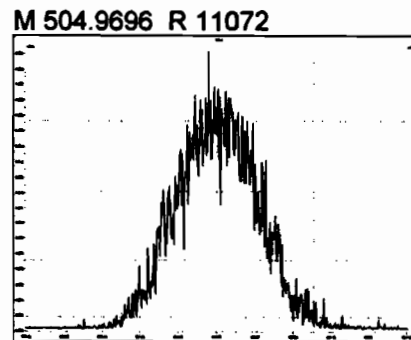
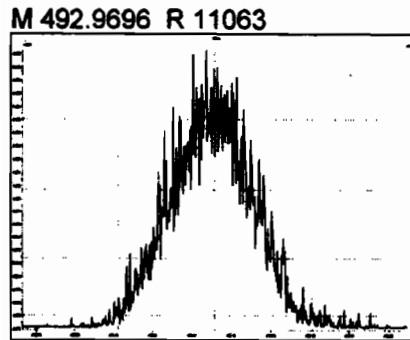
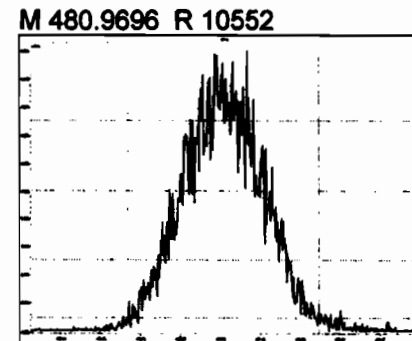
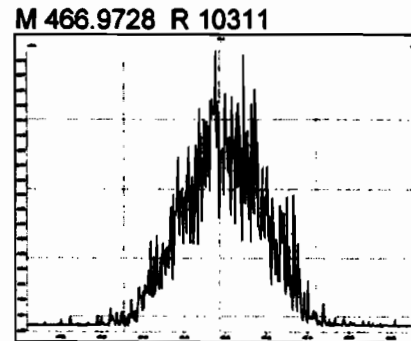
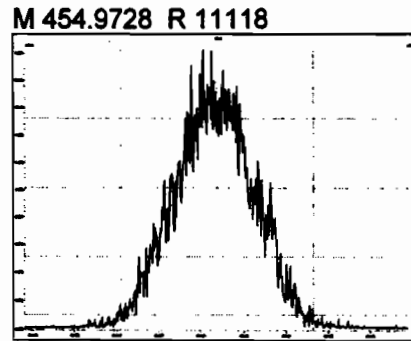
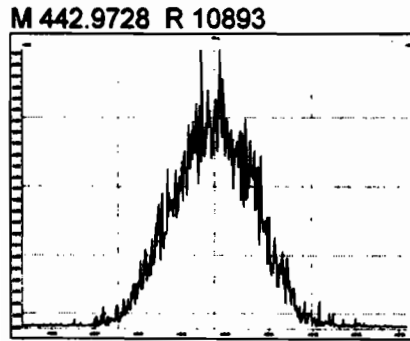


M 480.9696 R 10570



M 430.9728 R 10776





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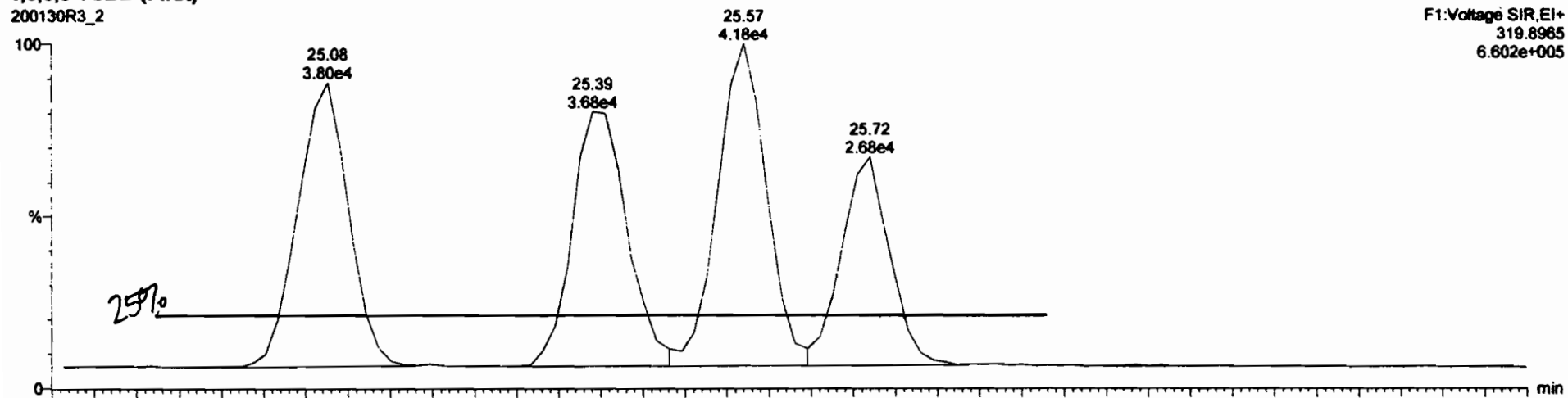
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Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

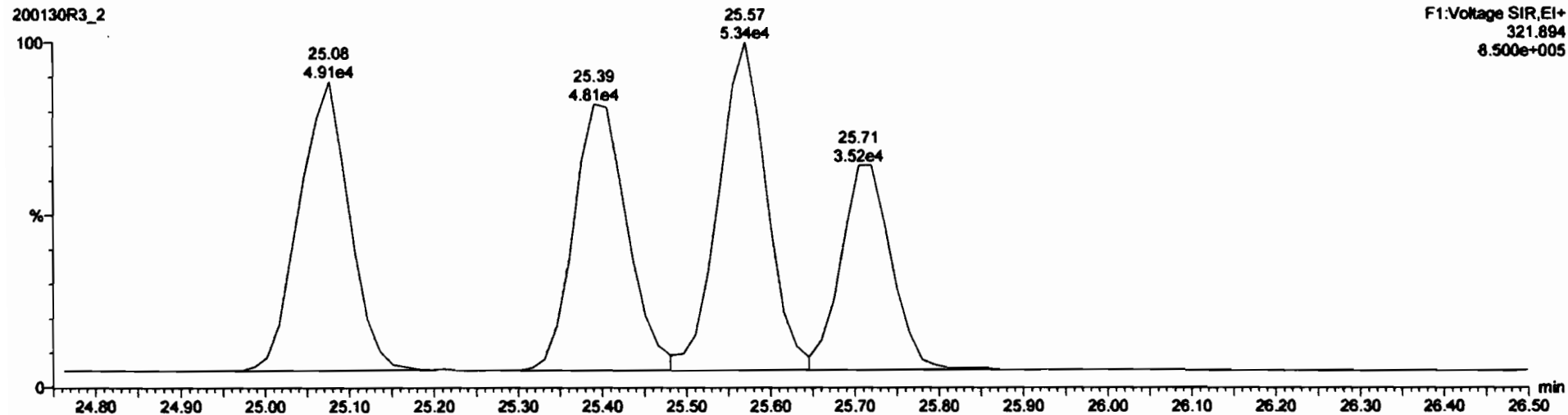
Name: 200130R3_2, Date: 31-Jan-2020, Time: 03:53:47, ID: ST200130R3_1 1613 CS3 1911604, Description: 1613-CS3 1911604

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

200130R3_2



200130R3_2



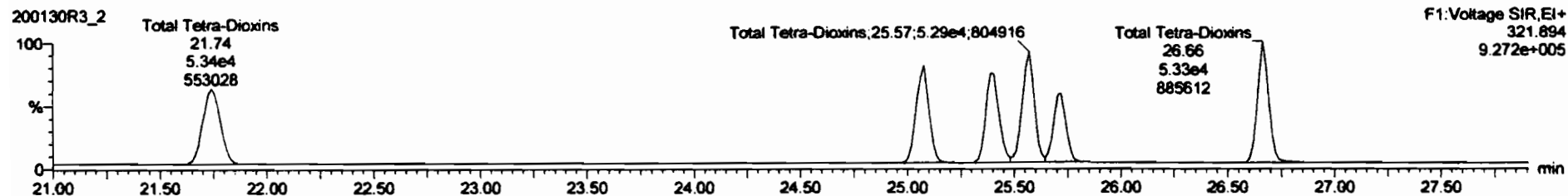
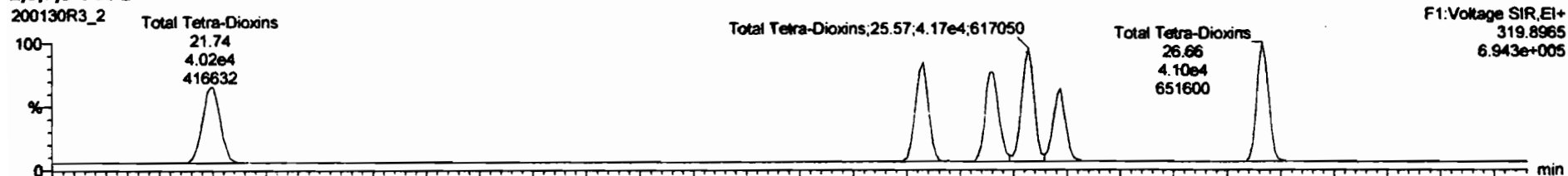
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Last Altered: Friday, January 31, 2020 15:49:11 Pacific Standard Time
Printed: Friday, January 31, 2020 15:49:21 Pacific Standard Time

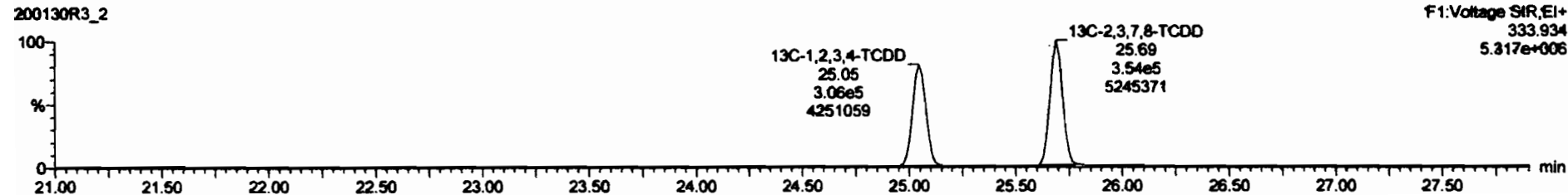
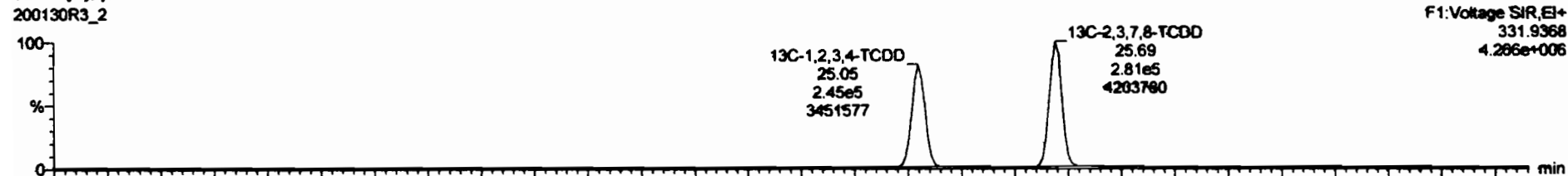
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200130R3_2, Date: 31-Jan-2020, Time: 03:53:47, ID: ST200130R3_1 1613 CS3 1911604, Description: 1613 CS3 1911604

2,3,7,8-TCDD



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



Dataset: Untitled

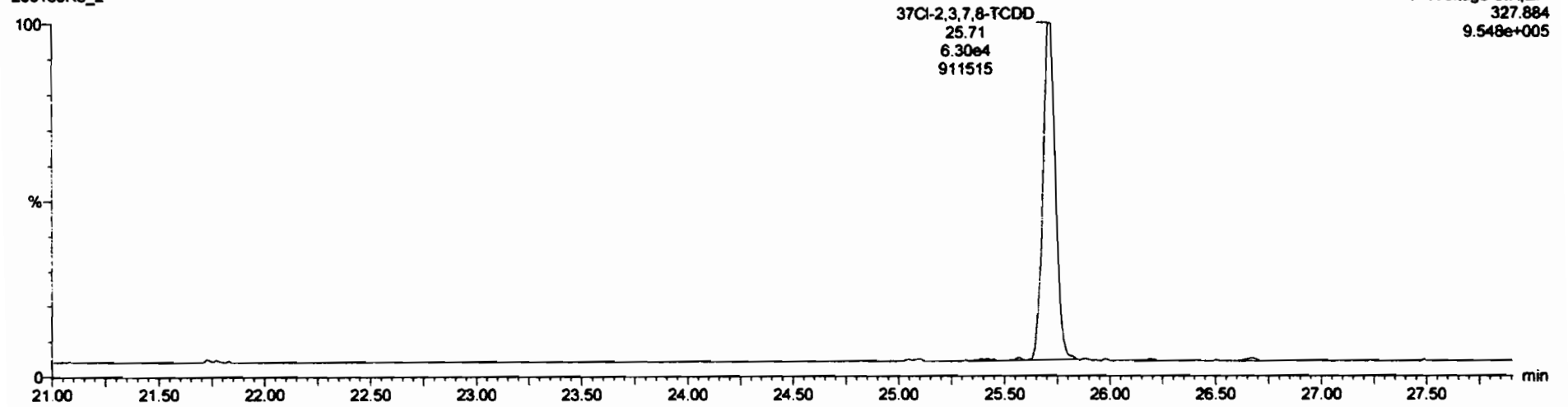
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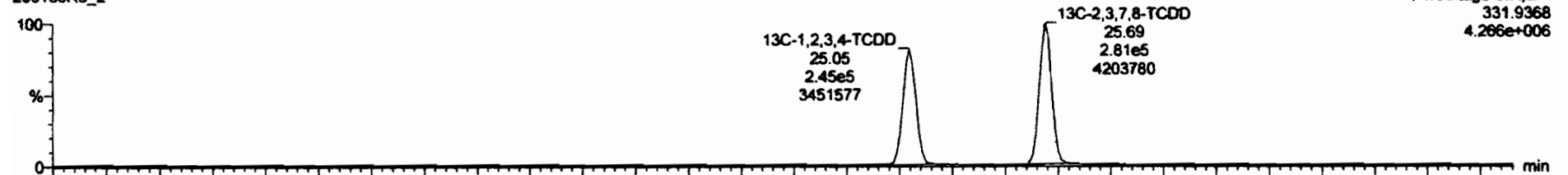
37Cl-2,3,7,8-TCDD

200130R3_2

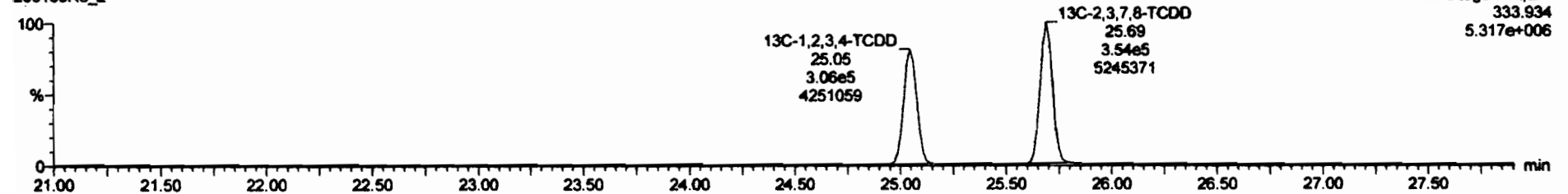


13C-1,2,3,4-TCDD

200130R3_2



200130R3_2

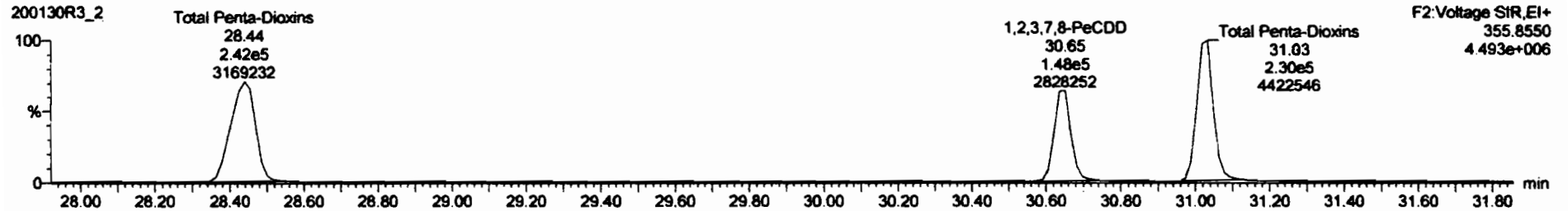


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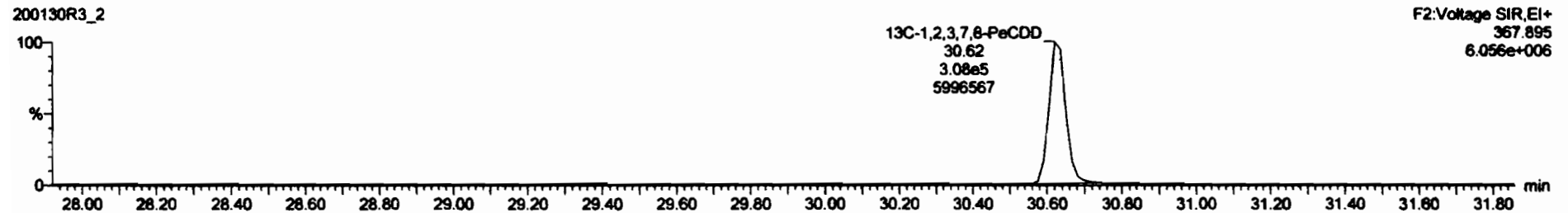
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1,2,3,7,8-PeCDD



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

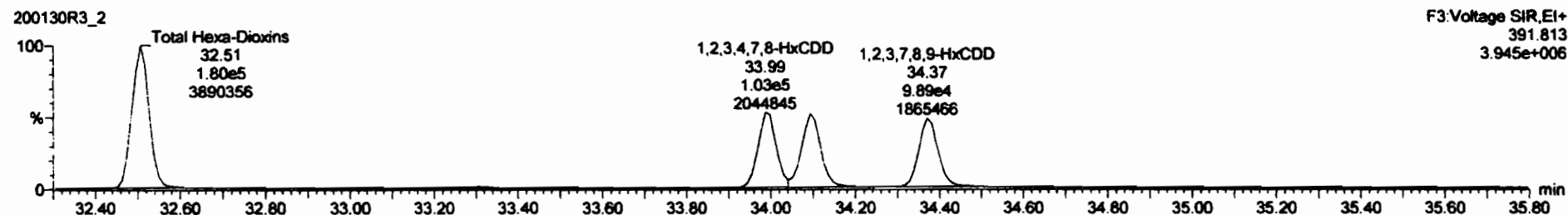
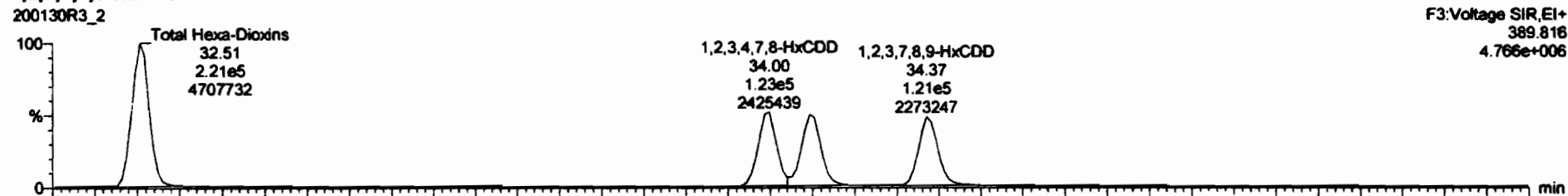


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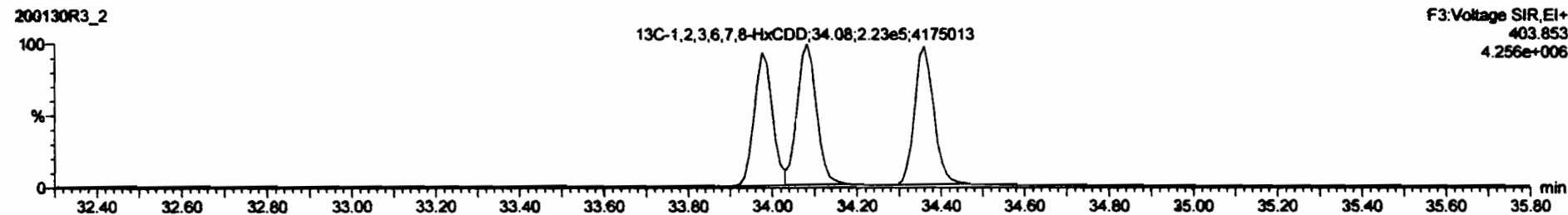
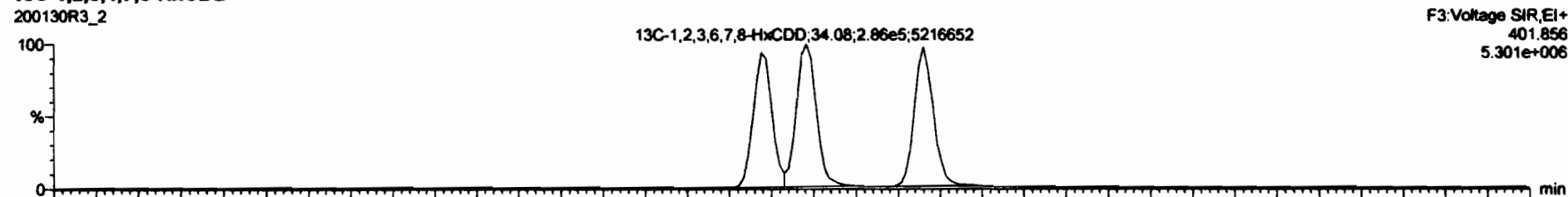
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Name: 200130R3_2, Date: 31-Jan-2020, Time: 03:53:47, ID: ST200130R3_1 1613 CS3 191604, Description: 1613 CS3 191604

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



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



Dataset: Untitled

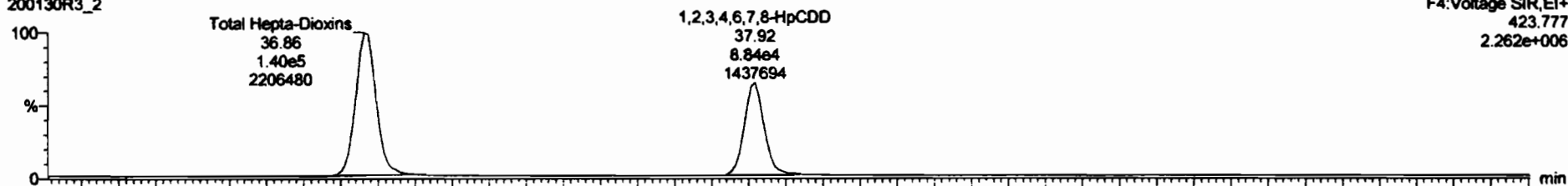
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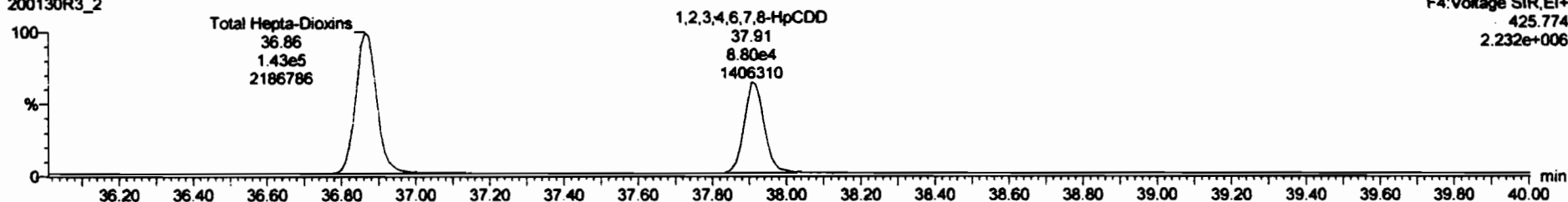
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1,2,3,4,6,7,8-HpCDD

200130R3_2

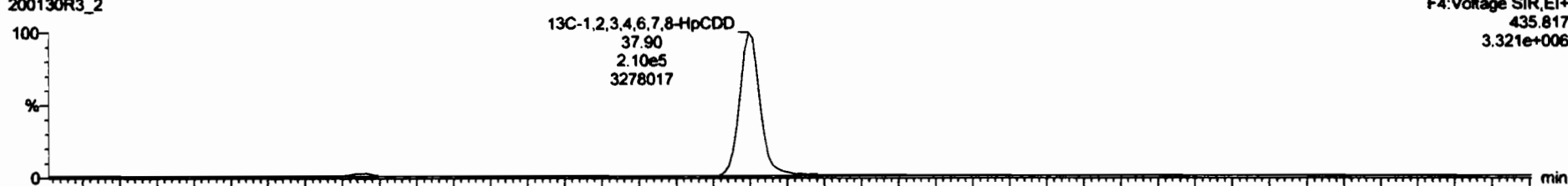


200130R3_2

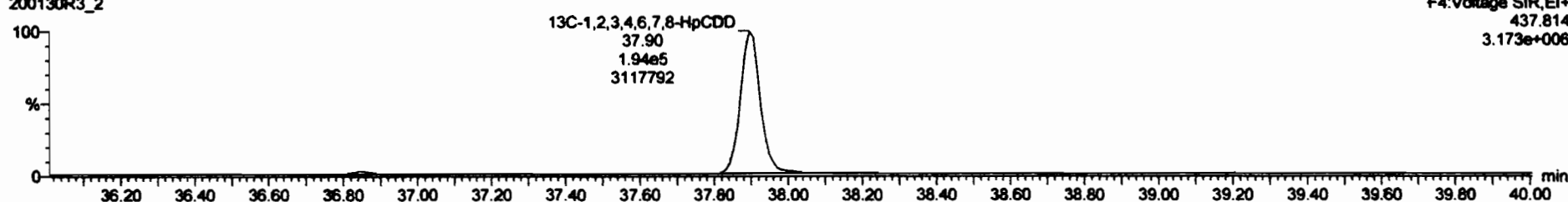


13C-1,2,3,4,6,7,8-HpCDD

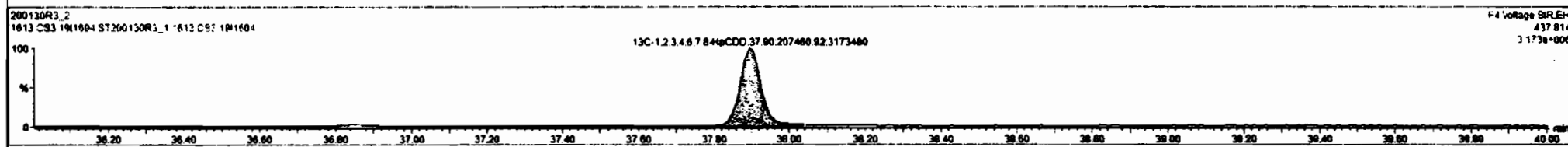
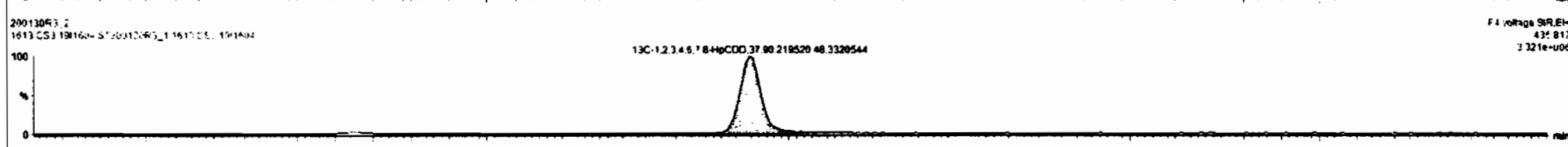
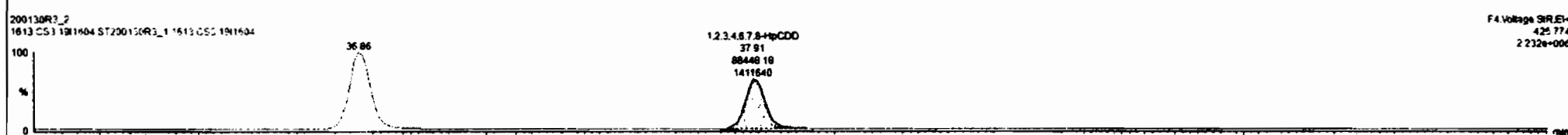
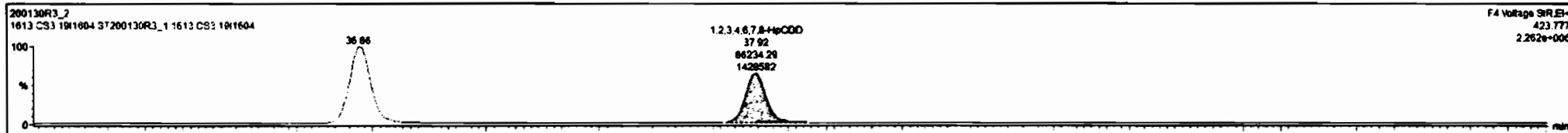
200130R3_2



200130R3_2



Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	23.78	0.88e4	0.38e5	0.77	0.78	NO	0.8240	25.72	25.72	1.001	1.001	11.6	116	NO			
2	12.3478	2.42e5	5.03e5	0.63	0.63	NO	0.9116	36.88	36.85	1.001	1.000	52.7	105	NO			
3	12.3478	2.25e5	4.48e5	1.24	1.20	NO	0.8784	33.88	34.80	1.000	1.001	57.8	116	NO			
4	12.3478	2.52e5	5.08e5	1.24	1.19	NO	0.7841	34.08	34.09	1.000	1.000	58.0	116	NO			
5	12.3478	2.28e5	4.85e5	1.24	1.23	NO	0.7885	34.38	34.37	1.001	1.000	58.9	114	NO			
7	OCDD	3.62e5	7.71e5	0.66	0.67	NO	0.8800	40.96	40.81	1.000	1.000	117	117	NO			
8	2,3,7,8-TCDF	0.38e4	9.07e5	0.77	0.74	NO	0.5878	24.83	24.84	1.001	1.001	12.0	120	NO			
9	1,2,3,7,8-PeCDF	3.45e5	7.48e5	1.59	1.52	NO	0.8281	28.38	28.37	1.001	1.000	55.9	112	NO			
10	2,3,4,7,8-PeCDF	3.53e5	7.32e5	1.55	1.55	NO	0.8480	30.38	30.35	1.001	1.000	56.7	113	NO			
11	1,2,3,4,7,8-HxCDF	2.18e5	4.85e5	1.24	1.18	NO	0.7885	33.17	33.13	1.000	1.000	56.9	112	NO			
12	1,2,3,6,7,8-HxCDF	2.48e5	5.88e5	1.24	1.15	NO	0.7201	33.24	33.25	1.000	1.001	58.7	113	NO			
13	1,2,3,6,7,8-HxPTE	3.78e4	4.16e4	1.54	1.14	NO	0.7885	33.85	33.85	1.001	1.000	54.4	111	NO			



Dataset: Untitled

Last Altered: Friday, January 31, 2020 15:49:11 Pacific Standard Time

Printed: Friday, January 31, 2020 15:49:21 Pacific Standard Time

Name: 200130R3_2, Date: 31-Jan-2020, Time: 03:53:47, ID: ST200130R3_1 1613 CS3 1911604, Description: 1613 CS3 1911604

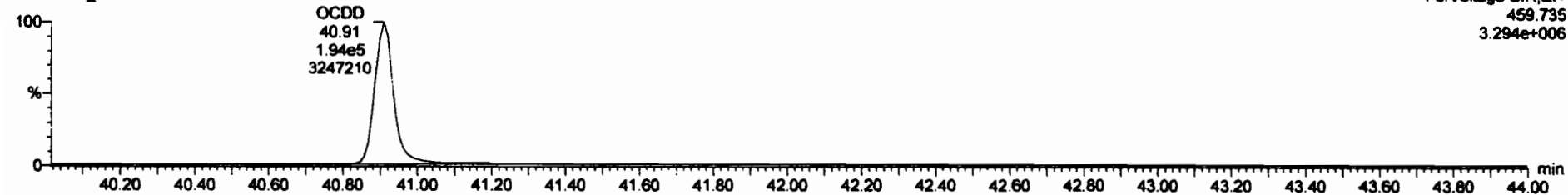
OCDD

200130R3_2



F5:Voltage SIR,EI+
457.738
2.867e+006

200130R3_2



F5:Voltage SIR,EI+
459.735
3.294e+006

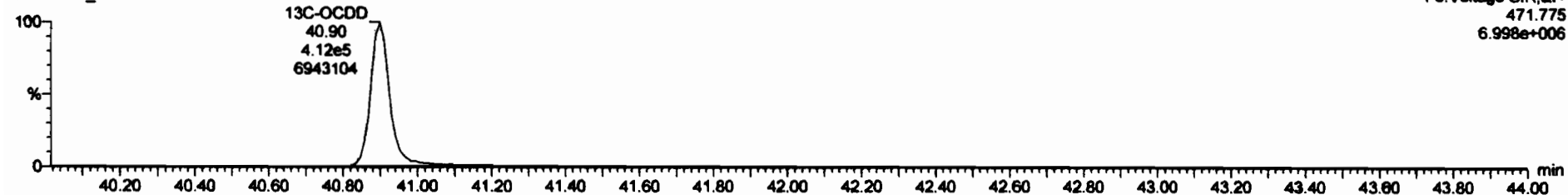
13C-OCDD

200130R3_2



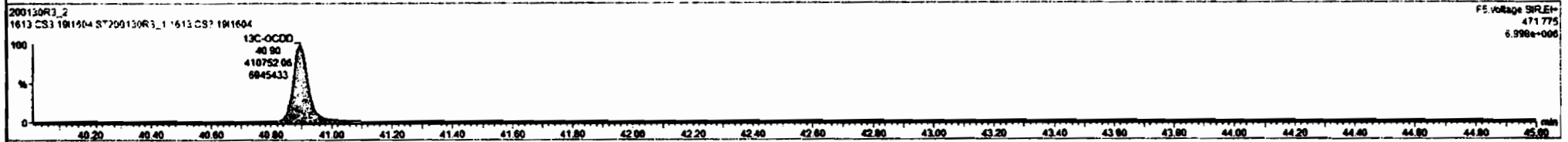
F5:Voltage SIR,EI+
469.778
6.206e+006

200130R3_2



F5:Voltage SIR,EI+
471.775
6.998e+006

Peak	Retention	Area	Height	Width	Skew	Resolution	Label	Integration	Integration	Integration	Integration	Integration	Integration		
1	12.378	0.00e4	0.30e5	0.77	0.78	NO	0.8240	25.72	25.72	NO	1.001	1.001	11.8	118	NO
2	12.378	2.42e5	5.73e5	0.63	0.63	NO	0.9116	30.08	30.05	NO	1.001	1.001	52.7	105	NO
3	12.378	2.25e5	4.48e5	1.24	1.20	NO	0.8704	33.08	34.00	NO	1.000	1.001	57.8	116	NO
4	12.378	2.35e5	5.09e5	1.24	1.19	NO	0.7841	34.08	34.08	NO	1.000	1.000	56.0	116	NO
5	12.378	2.20e5	4.05e5	1.24	1.23	NO	0.7885	34.38	34.37	NO	1.001	1.000	56.9	114	NO
6	12.378	1.75e5	4.37e5	1.04	0.97	NO	0.7388	37.81	37.82	NO	1.000	1.001	55.5	111	NO
8	12.378	0.30e4	0.07e5	0.77	0.73	NO	0.9578	24.83	24.84	NO	1.001	1.001	12.0	120	NO
9	12.378	3.45e5	7.48e5	1.55	1.52	NO	0.8281	28.38	28.37	NO	1.001	1.001	55.9	112	NO
10	12.378	3.53e5	7.32e5	1.55	1.55	NO	0.8488	30.38	30.36	NO	1.001	1.001	56.7	113	NO
11	12.378	2.10e5	4.05e5	1.24	1.18	NO	0.7888	33.11	33.13	NO	1.000	1.000	55.9	112	NO
12	12.378	2.40e5	5.08e5	1.24	1.15	NO	0.7201	33.24	33.25	NO	1.000	1.001	56.7	113	NO
13	12.378	2.70e5	4.95e5	1.24	1.14	NO	0.7005	33.05	33.05	NO	1.001	1.000	56.4	113	NO



Dataset: Untitled

Last Altered: Friday, January 31, 2020 15:49:11 Pacific Standard Time

Printed: Friday, January 31, 2020 15:49:21 Pacific Standard Time

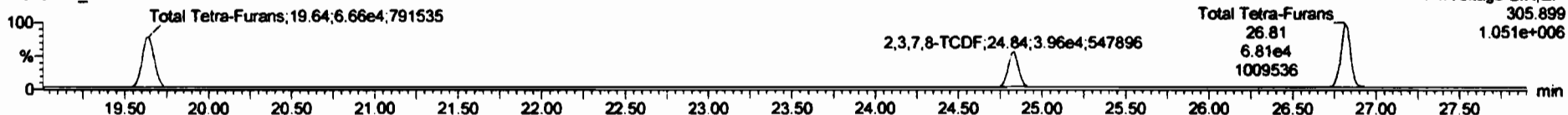
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2,3,7,8-TCDF

200130R3_2

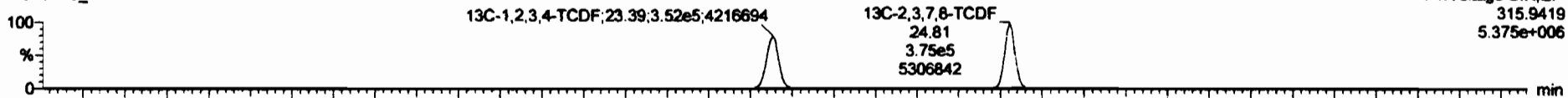


200130R3_2

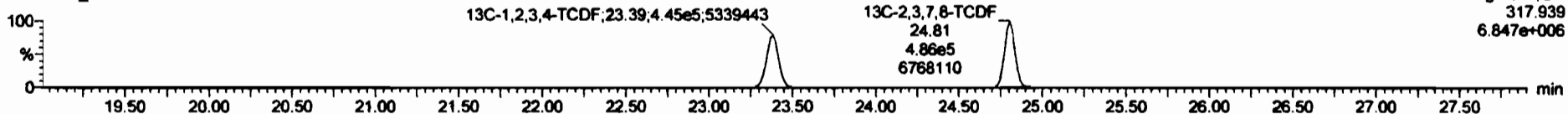


13C-2,3,7,8-TCDF

200130R3_2

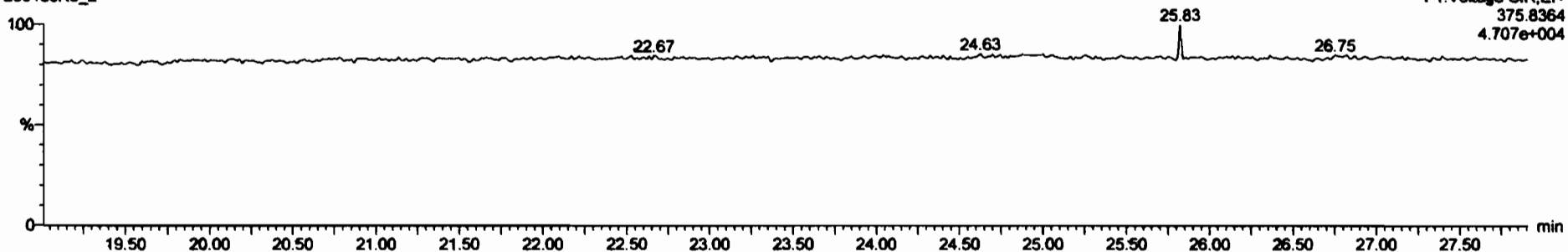


200130R3_2

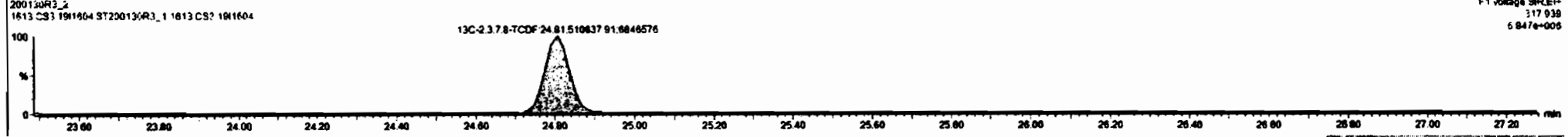
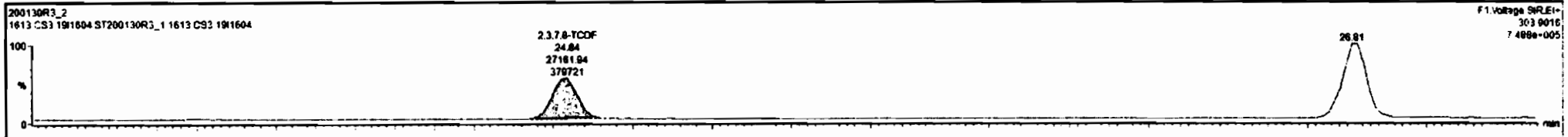


DPE1

200130R3_2



Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	2.378-TCDF	6.88e4	6.36e5	0.77	0.78	NO	0.6240	25.72	25.72	NO	1.001	1.001	11.8	118	NO		
2	1,2,3,7,8-PeCDF	2.42e4	5.02e5	0.63	0.63	NO	0.9116	30.88	30.85	NO	1.001	1.001	52.7	195	NO		
3	1,2,3,4,7,8-HxCDF	2.35e4	4.48e5	1.24	1.20	NO	0.8784	33.88	34.80	NO	1.000	1.001	57.8	118	NO		
4	1,2,3,6,7,8-HxCDF	2.32e4	5.09e5	1.24	1.19	NO	0.7941	34.08	34.68	NO	1.000	1.000	58.0	118	NO		
5	1,2,3,7,8-HxCDF	2.20e4	4.85e5	1.24	1.23	NO	0.7985	34.39	34.37	NO	1.001	1.000	58.9	114	NO		
6	1,2,3,4,6,7,8-HeCDF	1.75e4	4.27e5	1.84	0.97	NO	0.7380	37.81	37.82	NO	1.000	1.001	55.5	111	NO		
7	OCDF	3.08e4	7.79e5	0.88	0.88	NO	0.8900	46.98	48.81	NO	1.000	1.000	115	115	NO		
8	1,2,3,7,8-PeCDF	3.45e4	7.48e5	1.55	1.52	NO	0.8291	28.38	28.37	NO	1.001	1.001	55.9	112	NO		
9	2,3,4,7,8-PeCDF	3.53e4	7.22e5	1.56	1.56	NO	0.8408	30.36	30.35	NO	1.001	1.001	58.7	113	NO		
10	1,2,3,4,7,8-HxCDF	2.10e4	4.86e5	1.24	1.18	NO	0.7880	33.11	33.13	NO	1.000	1.000	55.9	112	NO		
11	1,2,3,6,7,8-HxCDF	2.40e4	5.80e5	1.24	1.15	NO	0.7291	33.24	33.25	NO	1.000	1.001	58.7	113	NO		
12	1,2,3,6,7,8-HxCDF	2.79e4	5.70e5	1.24	1.14	NO	0.7880	33.11	33.13	NO	1.001	1.000	58.4	113	NO		



Dataset: Untitled

Last Altered: Friday, January 31, 2020 15:49:11 Pacific Standard Time

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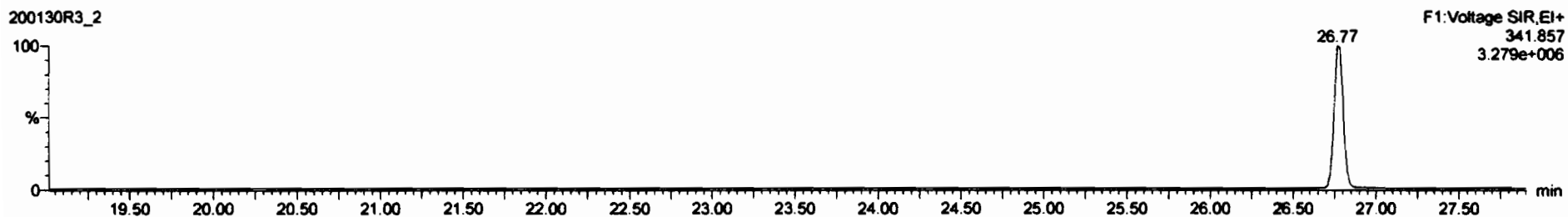
Name: 200130R3_2, Date: 31-Jan-2020, Time: 03:53:47, ID: ST200130R3_1 1613 CS3 1911604, Description: 1613 CS3 1911604

1st Func. Penta-Furans

200130R3_2

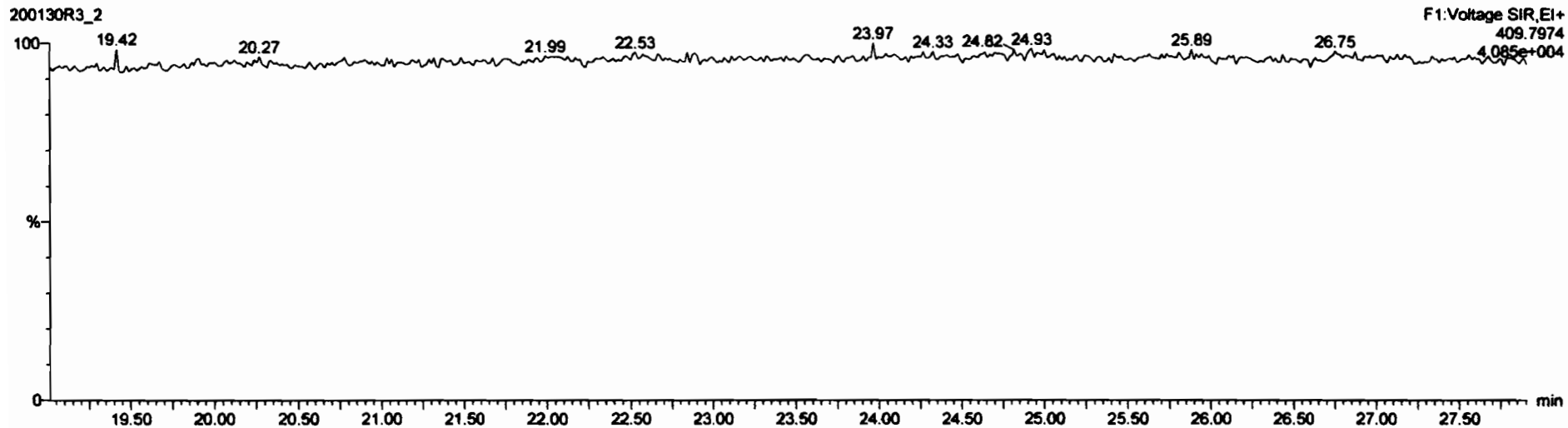


200130R3_2



DPE6

200130R3_2



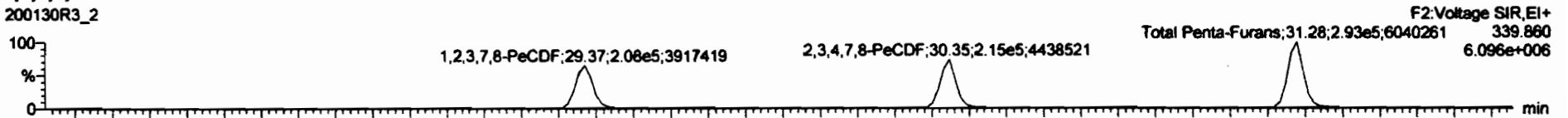
Dataset: Untitled

Last Altered: Friday, January 31, 2020 15:49:11 Pacific Standard Time
Printed: Friday, January 31, 2020 15:49:21 Pacific Standard Time

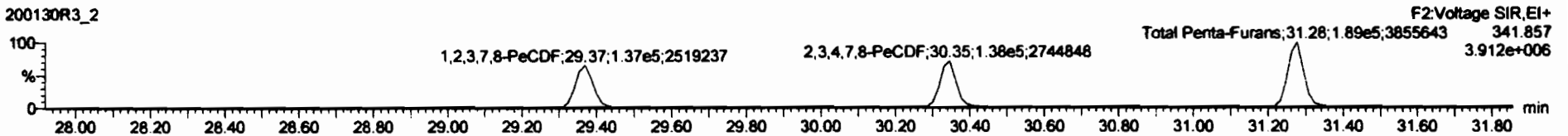
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1,2,3,7,8-PeCDF

200130R3_2

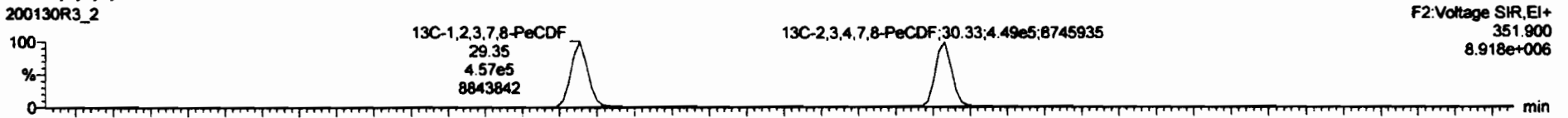


200130R3_2

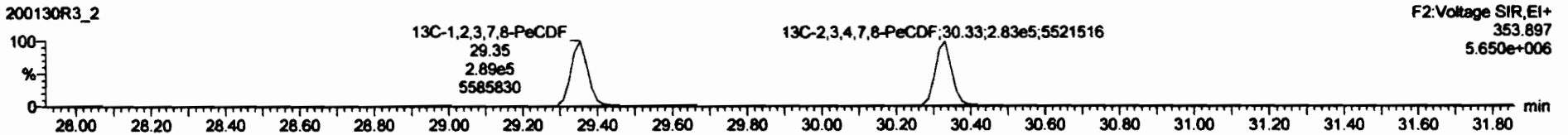


13C-1,2,3,7,8-PeCDF

200130R3_2

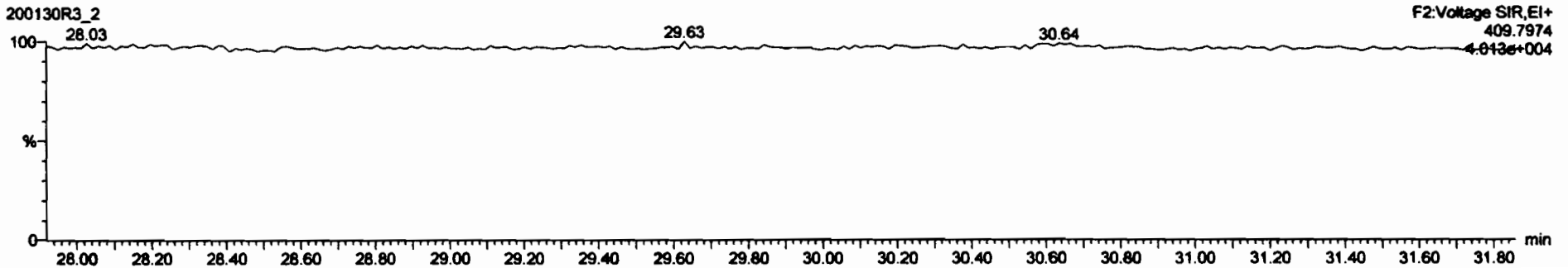


200130R3_2



DPE2

200130R3_2



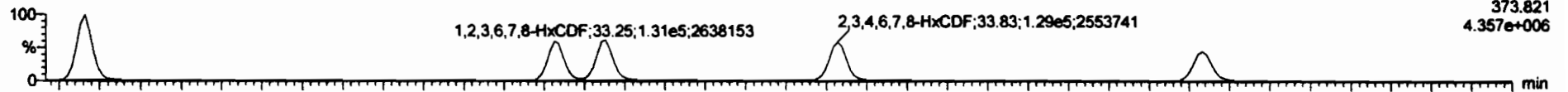
Dataset: Untitled

Last Altered: Friday, January 31, 2020 15:49:11 Pacific Standard Time
Printed: Friday, January 31, 2020 15:49:21 Pacific Standard Time

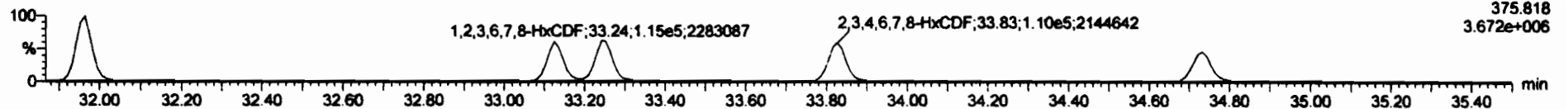
Name: 200130R3_2, Date: 31-Jan-2020, Time: 03:53:47, ID: ST200130R3_1 1613 CS3 1911604, Description: 1613 CS3 1911604

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

200130R3_2

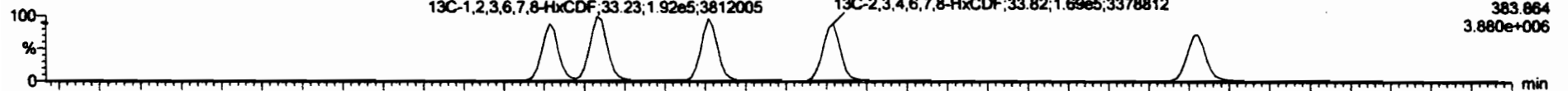


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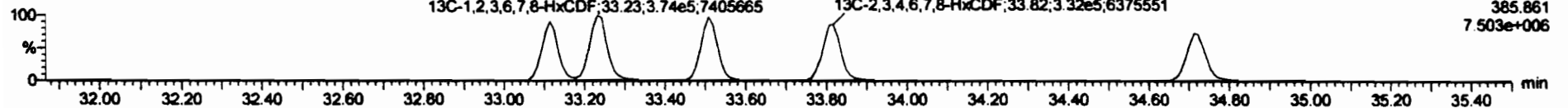


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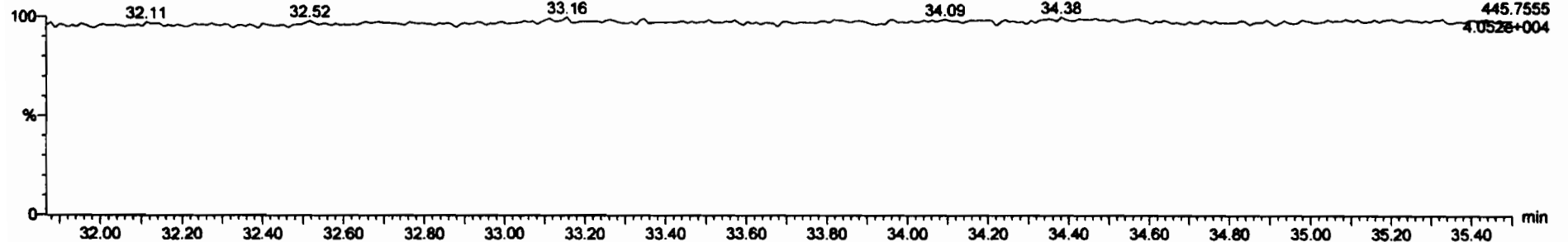


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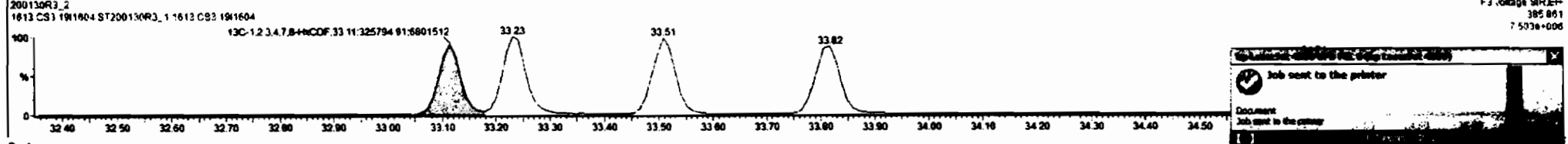
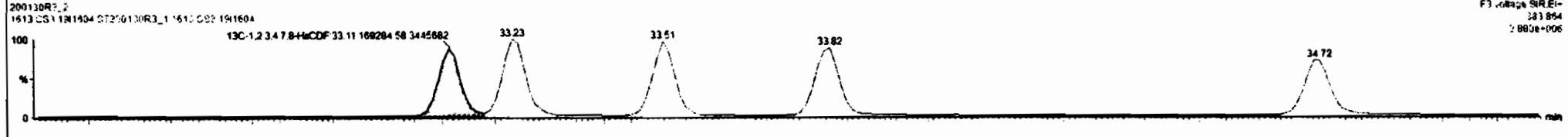
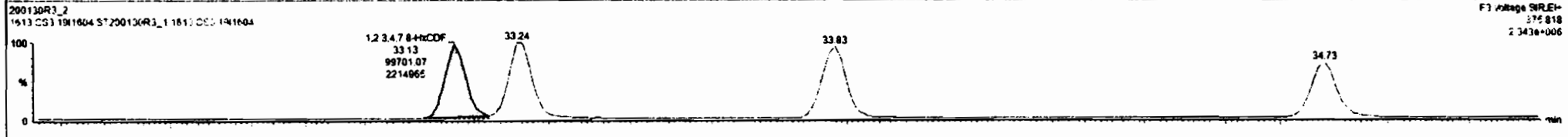
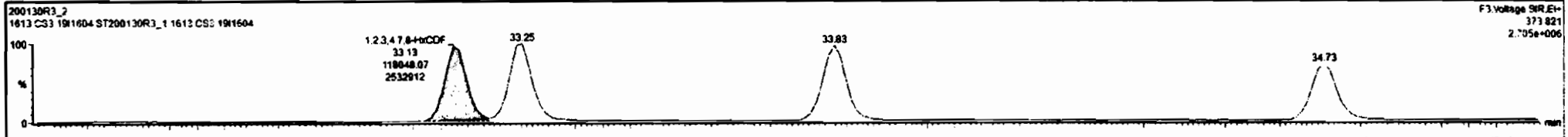


DPE3

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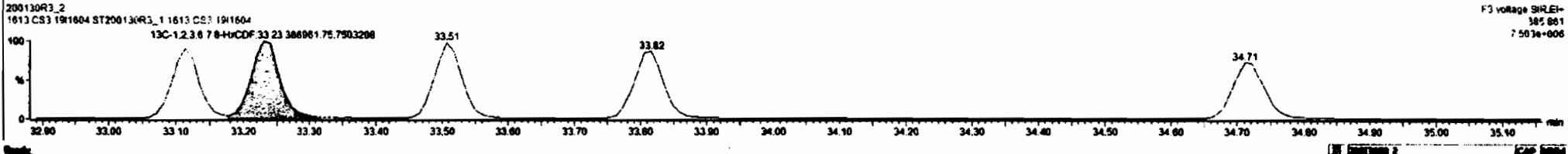
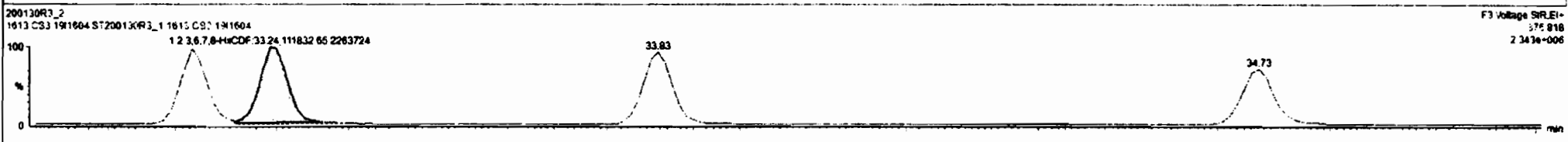
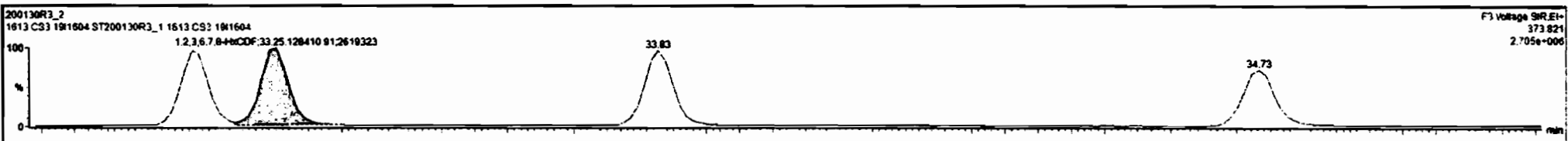
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1	23.78	6.88e4	6.38e5	0.77	0.78	NO	0.8248	25.72	25.72	NO	1.001	1.001	11.8	116	NO
2	12.3478	2.42e5	5.03e5	0.63	0.63	NO	0.9116	36.68	36.65	NO	1.001	1.001	52.7	105	NO
3	12.3478	2.25e5	4.48e5	1.24	1.20	NO	0.8794	33.88	34.00	NO	1.000	1.001	57.8	116	NO
4	12.3478	2.52e5	5.08e5	1.24	1.19	NO	0.7841	34.08	34.00	NO	1.000	1.000	58.0	116	NO
5	12.3478	2.20e5	4.85e5	1.24	1.23	NO	0.7885	34.38	34.37	NO	1.001	1.000	58.9	114	NO
6	12.3478	1.75e5	4.27e5	1.04	0.97	NO	0.7389	37.91	37.92	NO	1.000	1.001	55.5	111	NO
7	OCDD	3.08e5	7.79e5	0.86	0.85	NO	0.8988	46.98	46.91	NO	1.000	1.000	115	115	NO
8	23.78	6.40e4	9.08e5	0.77	0.74	NO	0.5878	24.83	24.84	NO	1.001	1.001	12.0	120	NO
9	12.3478	3.45e5	7.48e5	1.55	1.52	NO	0.8281	28.38	28.37	NO	1.001	1.001	55.9	112	NO
10	23.478	3.63e5	7.33e5	1.56	1.55	NO	0.8488	30.38	30.35	NO	1.001	1.001	56.7	113	NO
11	12.3478	2.49e5	5.08e5	1.24	1.15	NO	0.7201	33.24	33.25	NO	1.000	1.001	58.7	113	NO
12	12.3478	2.79e5	5.10e5	1.24	1.14	NO	0.7885	33.84	33.83	NO	1.001	1.000	58.4	113	NO



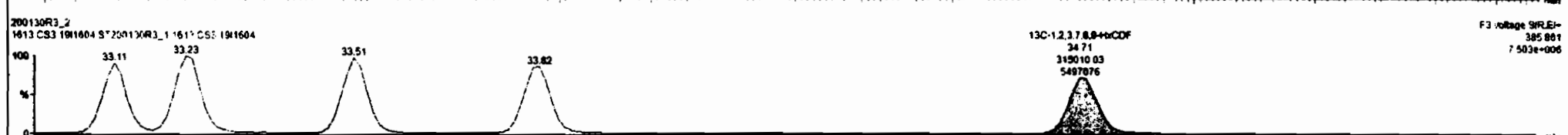
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Job sent to the printer

1	1.2,3,7,8-TCDF	6.88e4	6.38e5	0.77	0.78	NO	0.8248	25.72	25.72	NO	1.001	1.001	11.8	118	NO
2	1,2,3,7,8-PeCDF	2.42e5	5.83e5	0.83	0.83	NO	0.9116	30.88	30.85	NO	1.001	1.001	52.7	195	NO
3	1,2,3,4,7,8-HxCDD	2.25e5	4.48e5	1.24	1.20	NO	0.8704	33.99	34.00	NO	1.000	1.001	57.8	118	NO
4	1,2,3,6,7,8-HxCDD	2.32e5	5.09e5	1.24	1.19	NO	0.7941	34.08	34.09	NO	1.000	1.000	58.0	118	NO
5	1,2,3,7,8-HxCDF	2.20e5	4.85e5	1.24	1.23	NO	0.7985	34.39	34.37	NO	1.001	1.000	58.9	114	NO
6	1,2,3,4,6,7,8-HpCDD	1.75e5	4.27e5	1.84	0.97	NO	0.7309	37.81	37.82	NO	1.000	1.001	55.5	111	NO
7	OCDD	3.68e5	7.79e5	0.89	0.88	NO	0.8960	49.98	49.91	NO	1.000	1.000	115	115	NO
8	2,3,7,8-TCDF	6.48e4	6.88e5	0.77	0.74	NO	0.5878	24.83	24.84	NO	1.001	1.001	12.0	120	NO
9	1,2,3,7,8-PeCDF	3.45e5	7.46e5	1.52	1.52	NO	0.8281	29.38	29.37	NO	1.001	1.001	55.9	112	NO
10	2,3,4,7,8-PeCDF	3.53e5	7.32e5	1.55	1.55	NO	0.8489	30.38	30.35	NO	1.001	1.001	58.7	113	NO
11	1,2,3,4,7,8-HxCDF	2.16e5	4.95e5	1.24	1.18	NO	0.7890	33.11	33.13	NO	1.000	1.000	85.9	112	NO



15	1,2,3,4,6,7,8-HxCDF	1.83e5	4.00e5	1.04	0.98	NO	0.7318	38.51	38.48	NO	1.001	1.000	54.4	100	NO
16	1,2,3,4,7,8-HxCDF	1.37e5	2.91e5	1.04	0.97	NO	0.8164	38.48	38.50	NO	1.000	1.000	57.8	115	NO
17	OCDF	3.31e5	8.32e5	0.98	0.84	NO	0.8388	41.09	41.18	NO	1.000	1.000	125	125	NO
18	13C-2,3,7,8-TCDF	6.36e5	5.51e5	0.77	0.79	NO	1.1157	25.89	25.88	NO	1.026	1.028	103	103	NO
19	13C-1,2,3,7,8-PeCDD	5.83e5	5.51e5	0.83	0.83	NO	0.8411	30.43	30.64	NO	1.215	1.223	109	109	NO
20	13C-1,2,3,4,7,8-HxCDD	4.49e5	5.45e5	1.24	1.28	NO	0.8379	33.98	33.88	NO	1.014	1.014	87.7	87.7	NO
21	13C-1,2,3,6,7,8-HxCDD	5.09e5	5.45e5	1.24	1.28	NO	1.0054	34.08	34.08	NO	1.017	1.017	87.7	87.7	NO
22	13C-1,2,3,7,8,9-HxCDD	4.85e5	5.45e5	1.24	1.24	NO	1.0303	34.38	34.38	NO	1.028	1.025	88.4	88.4	NO
23	13C-1,2,3,4,6,7,8-HpCDD	4.27e5	5.45e5	1.04	1.08	NO	0.7989	37.93	37.98	NO	1.132	1.131	110	110	NO
24	13C-OCDD	7.78e5	5.45e5	0.88	0.88	NO	0.6910	40.81	40.80	NO	1.218	1.221	238	119	NO
25	13C-2,3,7,8-TCDF	9.88e5	7.87e5	0.77	0.78	NO	1.0387	24.87	24.81	NO	0.993	0.990	110	110	NO
26	13C-1,2,3,7,8-HxCDF	7.48e4	7.43e4	1.54	1.48	NO	0.8489	28.28	28.25	NO	1.188	1.175	107	107	NO

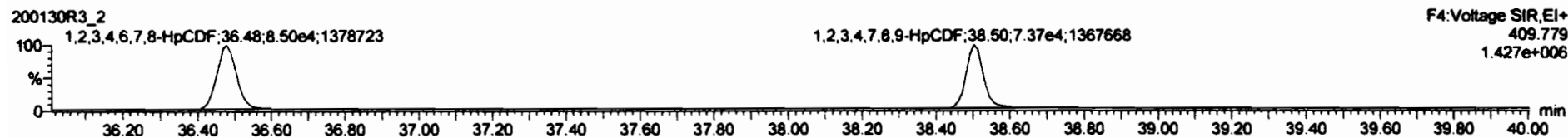
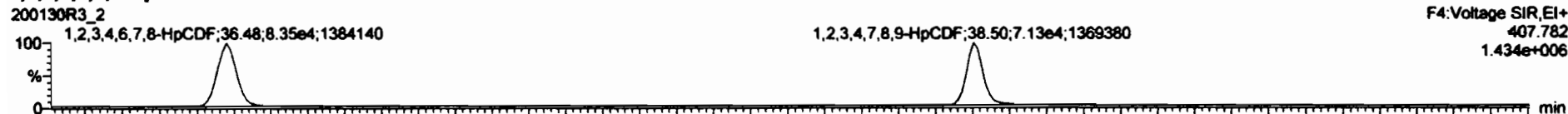


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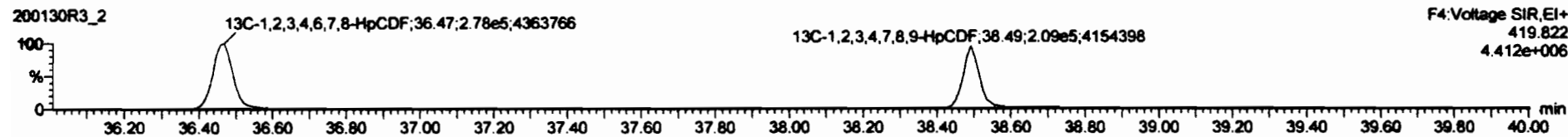
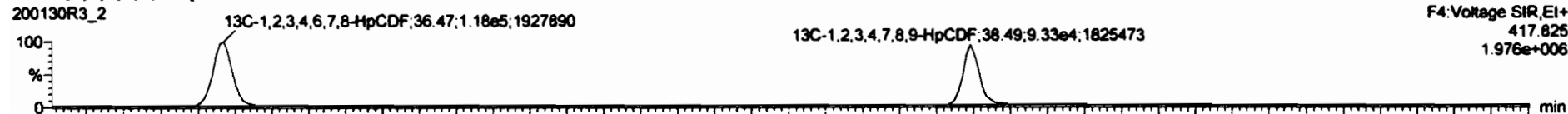
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Printed: Friday, January 31, 2020 15:49:21 Pacific Standard Time

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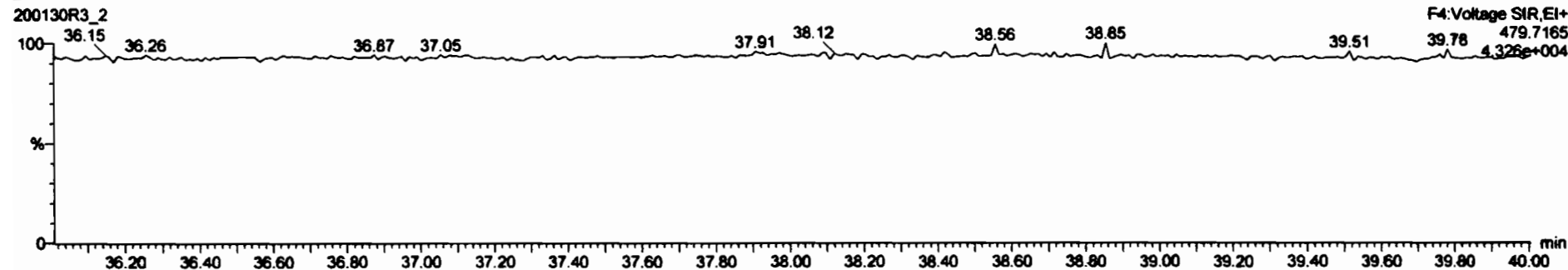
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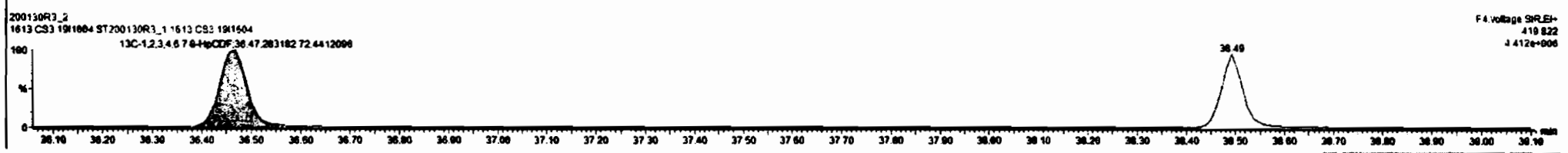
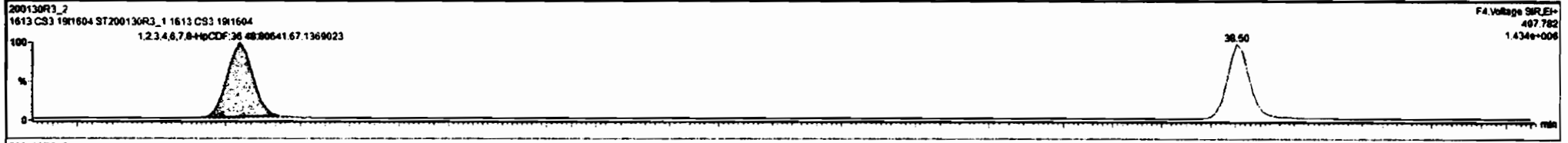
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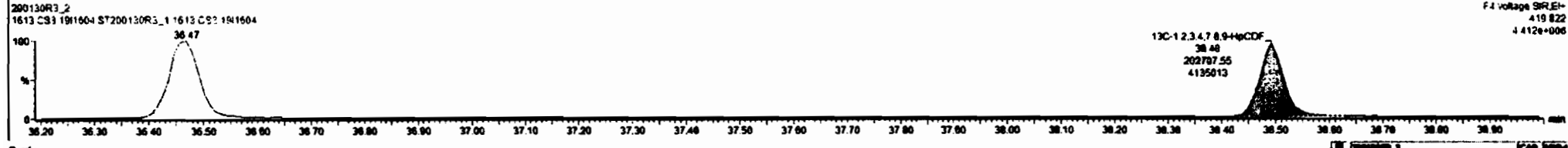
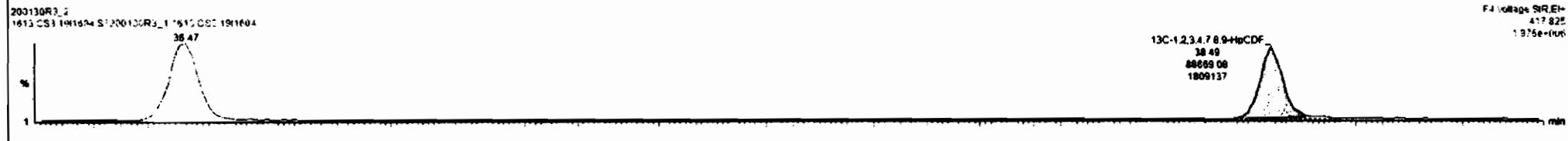
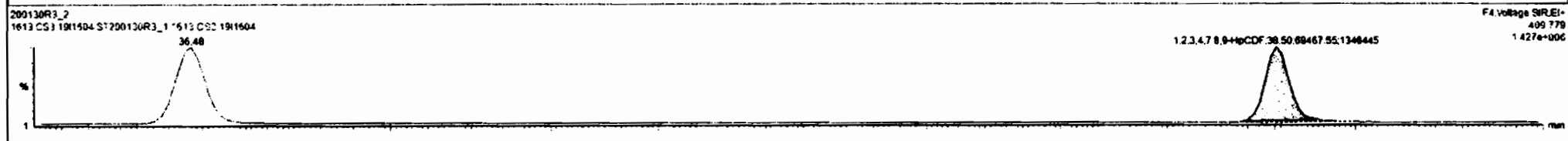
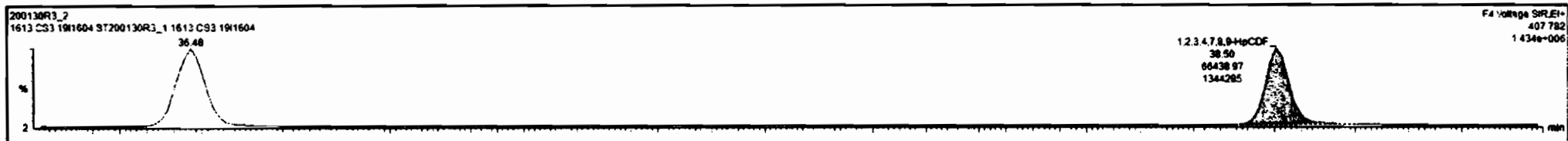
DPE4



ID	Compound	Area	Height	Width	Retention	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration
16	1,2,3,4,7,8-HpCDF	1.89e5	4.78e5	1.24	1.19	NO	0.7988	34.72	34.73	NO	1.000	1.000	56.0	112	NO
16	1,2,3,4,7,8-HpCDF	1.37e5	2.81e5	1.04	0.97	NO	0.8184	38.48	38.50	NO	1.000	1.000	57.8	115	NO
17	OCDF	3.31e5	6.32e5	0.80	0.84	NO	0.8388	41.88	41.10	NO	1.000	1.000	125	125	NO
18	13C-2,3,7,8-TCDF	6.36e5	5.51e5	0.77	0.79	NO	1.1157	25.88	25.88	NO	1.026	1.026	103	103	NO
18	13C-1,2,3,7,8-PeCDD	5.83e5	5.51e5	0.63	0.63	NO	0.8411	38.43	38.64	NO	1.215	1.223	109	109	NO
20	13C-1,2,3,4,7,8-HpCDD	4.48e5	5.45e5	1.24	1.28	NO	0.8379	33.98	33.86	NO	1.014	1.014	87.7	87.7	NO
21	13C-1,2,3,4,7,8-HpCDD	5.88e5	5.45e5	1.24	1.28	NO	1.0854	34.88	34.88	NO	1.017	1.017	87.7	87.7	NO
22	13C-1,2,3,7,8,9-HpCDD	4.85e5	5.45e5	1.24	1.24	NO	1.0363	34.38	34.38	NO	1.026	1.025	88.4	88.4	NO
22	13C-1,2,3,4,8,7,8-HpCDD	4.27e5	5.45e5	1.04	1.06	NO	0.7988	37.83	37.88	NO	1.132	1.131	118	118	NO
24	13C-OCDD	7.78e5	5.45e5	0.80	0.86	NO	0.8810	40.81	40.80	NO	1.216	1.221	238	118	NO
26	13C-2,3,7,8-TCDF	9.88e5	7.87e5	0.77	0.78	NO	1.0387	24.87	24.81	NO	0.983	0.980	118	110	NO
26	13C-1,2,3,7,8-PeCDF	7.88e5	7.03e5	1.04	1.04	NO	0.8588	28.28	28.36	NO	1.148	1.175	187	187	NO



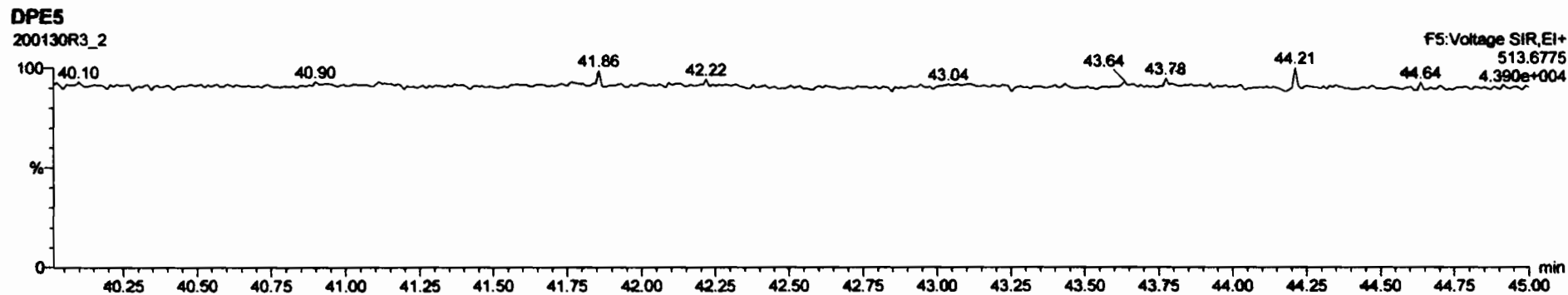
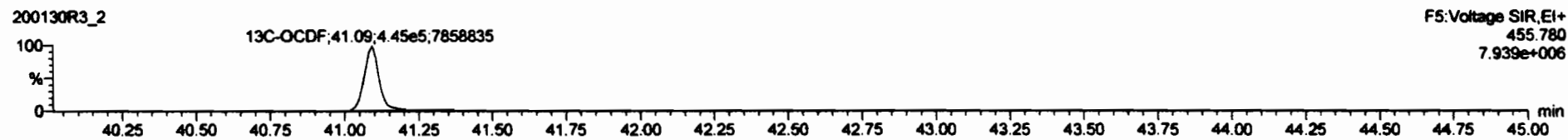
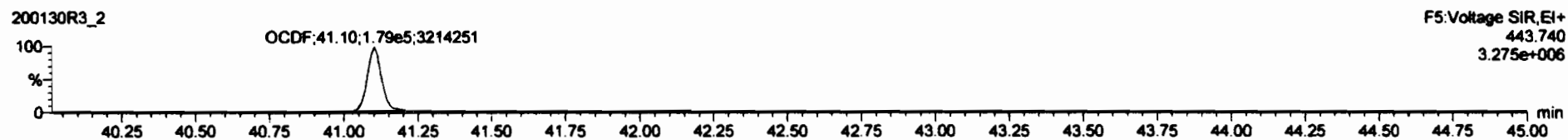
14	1,2,3,7,8-HpCDF	1.88e5	4.78e5	1.24	1.19	NO	0.7088	34.72	34.73	NO	1.000	1.000	85.0	112	NO
15	1,2,3,4,6,7,8-HpCDF	1.83e5	4.08e5	1.04	0.98	NO	0.7216	38.51	38.48	NO	1.001	1.000	54.4	109	NO
17	OCDF	3.31e5	8.32e5	0.89	0.84	NO	0.8388	41.08	41.10	NO	1.000	1.000	125	125	NO
18	13C-2,3,7,8-TCDF	6.36e5	5.51e5	0.77	0.79	NO	1.1157	25.89	25.88	NO	1.028	1.026	103	103	NO
19	13C-1,2,3,7,8-PeCDD	5.82e5	5.51e5	0.83	0.83	NO	0.8411	30.43	30.84	NO	1.215	1.223	109	109	NO
20	13C-1,2,3,4,7,8-HpCDD	4.48e5	5.45e5	1.24	1.28	NO	0.8379	33.96	33.86	NO	1.014	1.014	87.7	87.7	NO
21	13C-1,2,3,6,7,8-HpCDD	5.08e5	5.45e5	1.24	1.28	NO	1.0854	34.08	34.08	NO	1.017	1.017	87.7	87.7	NO
22	13C-1,2,3,7,8-HpCDD	4.85e5	5.45e5	1.24	1.24	NO	1.0393	34.38	34.36	NO	1.026	1.025	86.4	86.4	NO
23	13C-1,2,3,4,6,7,8-HpCDD	4.27e5	5.45e5	1.04	1.08	NO	0.7889	37.83	37.80	NO	1.132	1.131	119	119	NO
24	13C-OCDD	7.78e5	8.45e5	0.88	0.90	NO	0.8910	48.81	48.80	NO	1.218	1.221	238	119	NO
26	13C-2,3,7,8-TCDF	9.88e5	7.97e5	0.77	0.78	NO	1.0387	24.87	24.81	NO	0.983	0.980	110	110	NO
28	13C-1,2,3,7,8-HpCDF	7.28e5	7.82e5	1.42	1.48	NO	0.8988	29.24	29.24	NO	1.448	1.172	163	160	NO



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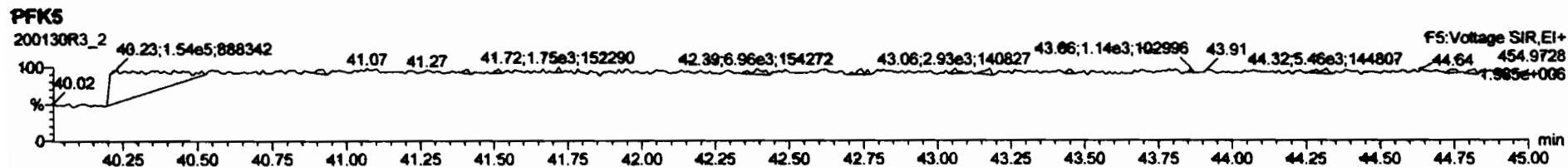
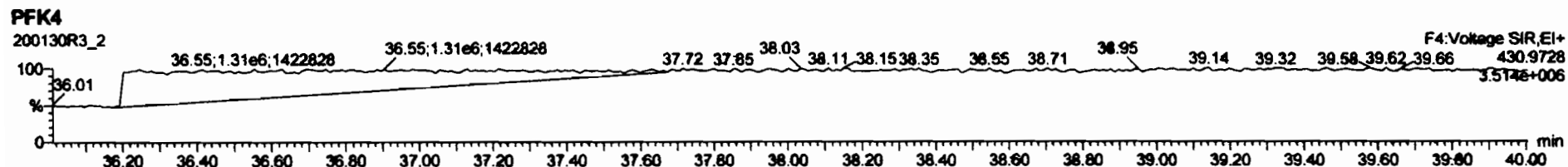
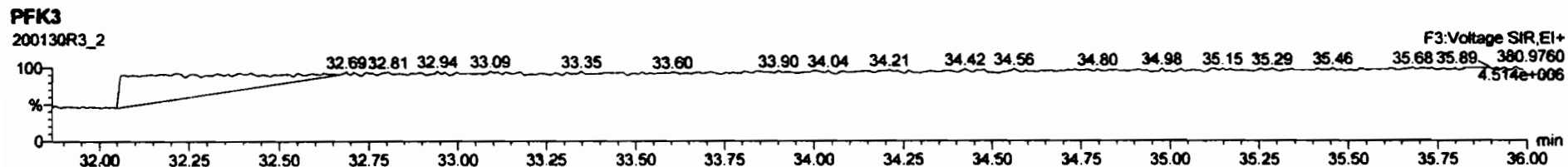
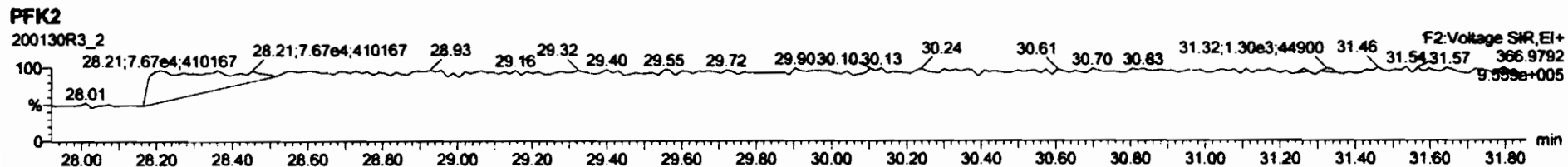
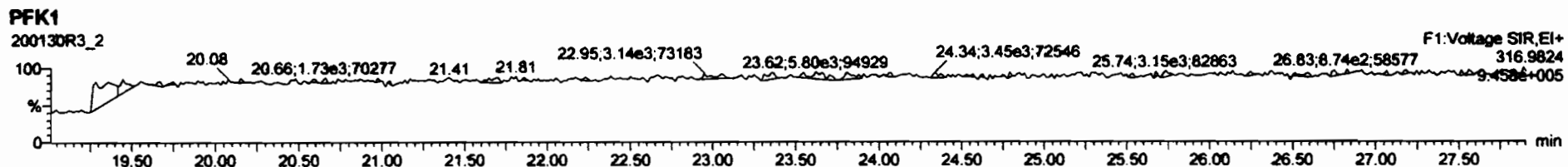
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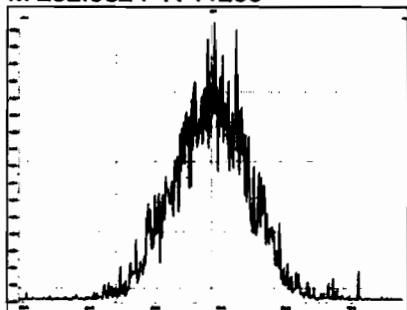
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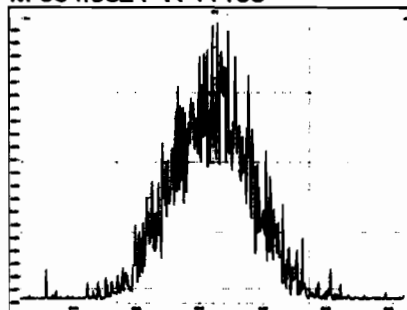


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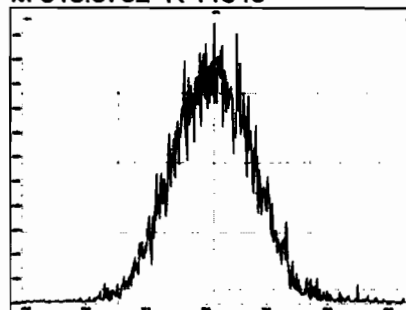
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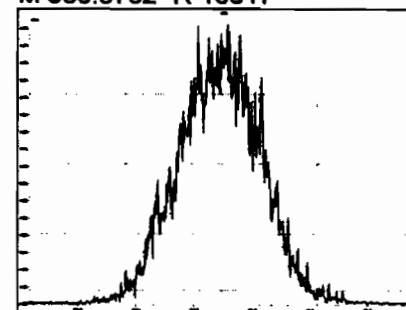
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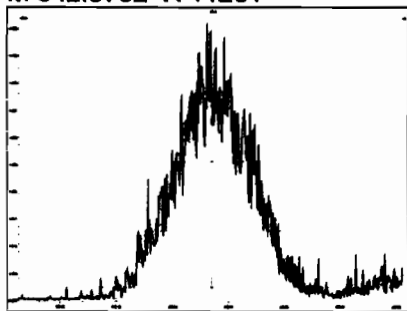
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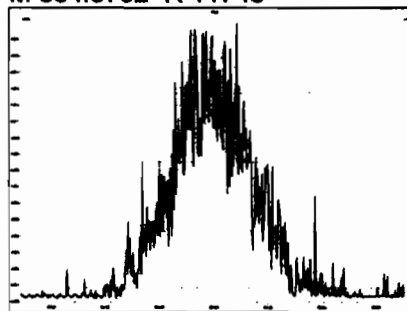
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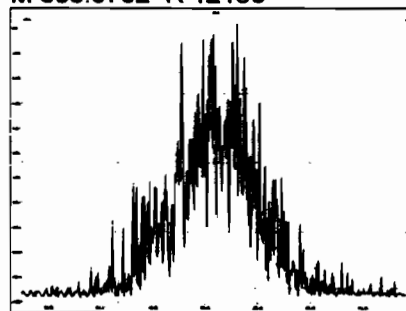
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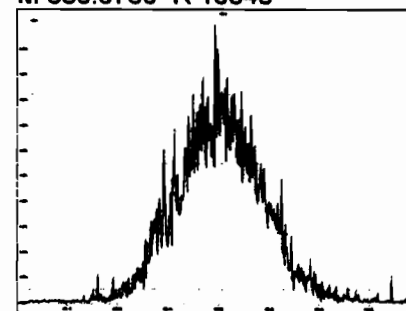
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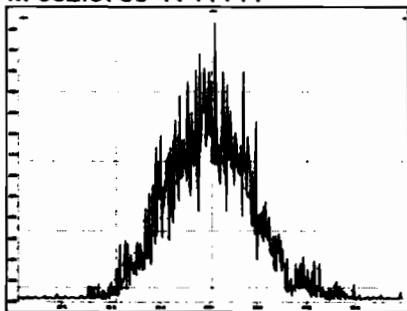
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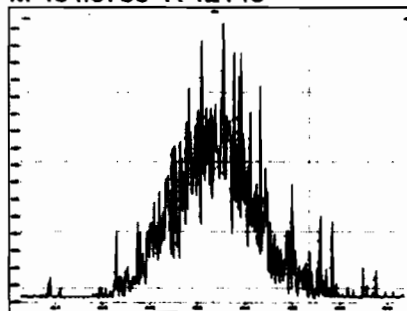
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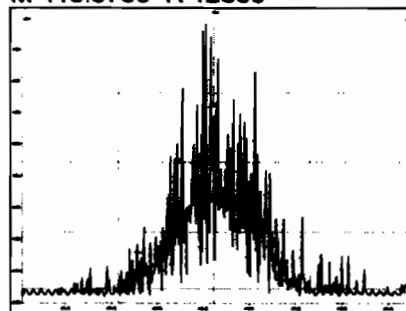
M 392.9760 R 11144



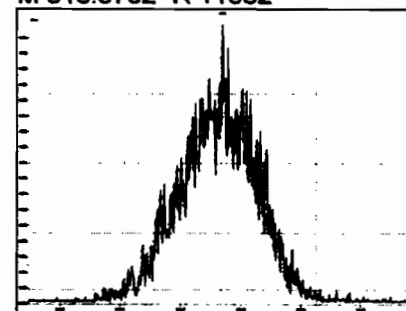
M 404.9760 R 12149



M 416.9760 R 12850

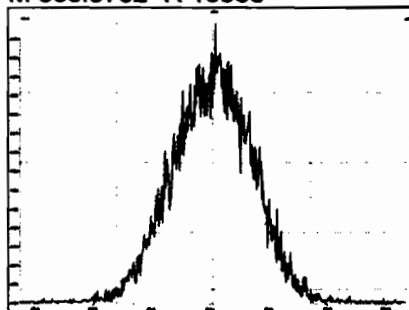


M 318.9792 R 11962

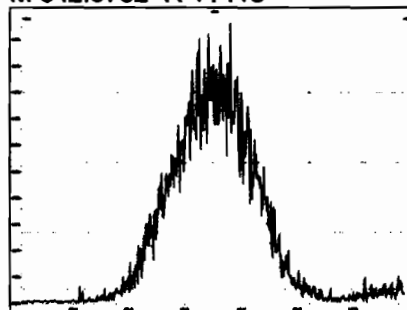


Printed: Friday, January 31, 2020 15:47:45 Pacific Standard Time

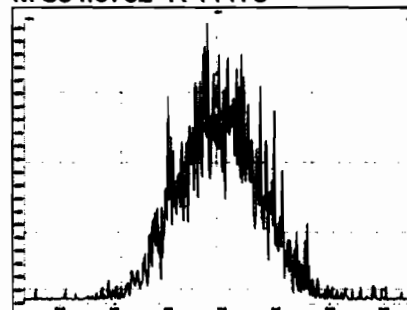
M 330.9792 R 10965



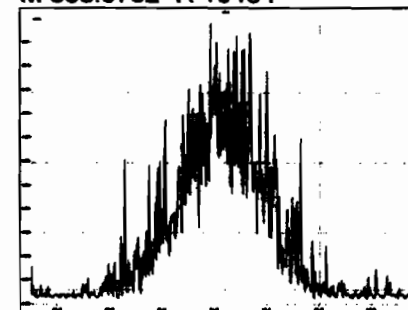
M 342.9792 R 11418



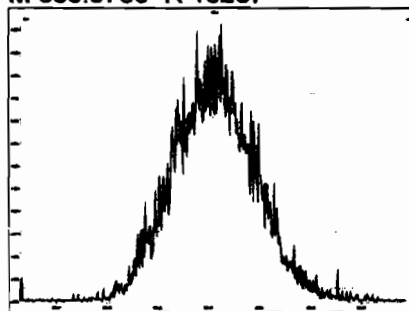
M 354.9792 R 11178



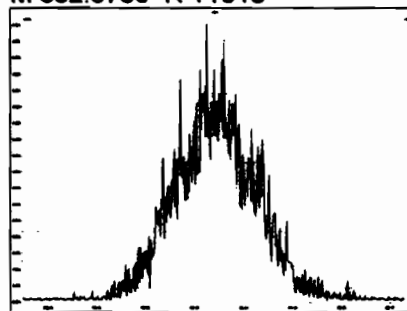
M 366.9792 R 10454



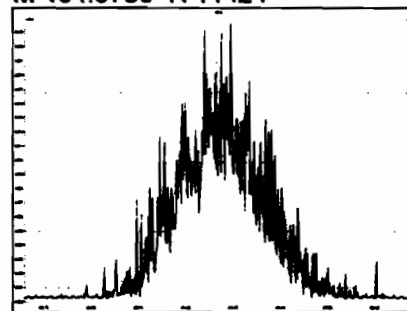
M 380.9760 R 10267



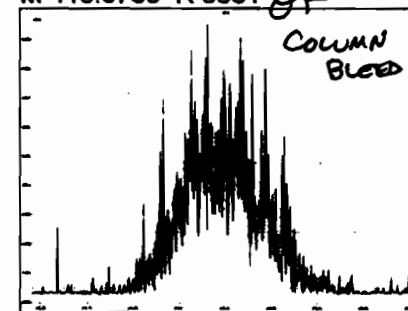
M 392.9760 R 11618



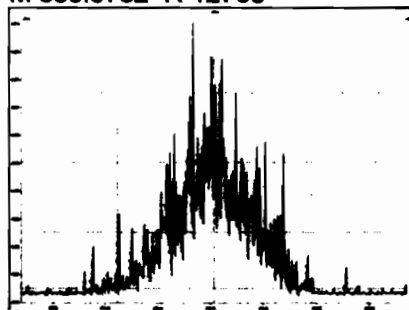
M 404.9760 R 11424



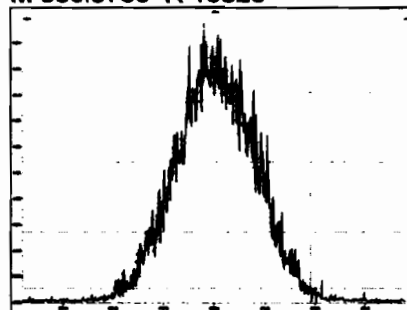
M 416.9760 R 5681 *OK*



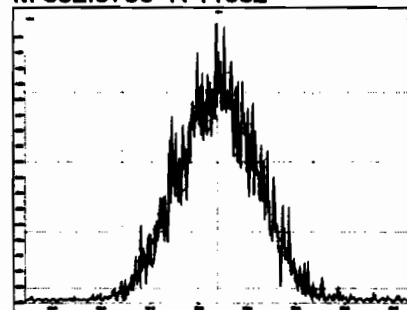
M 366.9792 R 12755



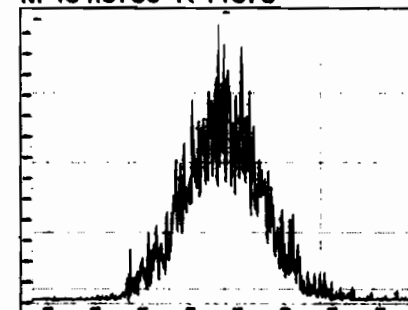
M 380.9760 R 10825



M 392.9760 R 11062

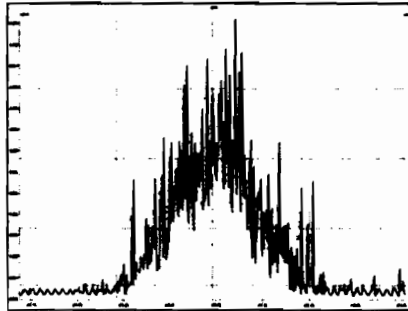


M 404.9760 R 11576

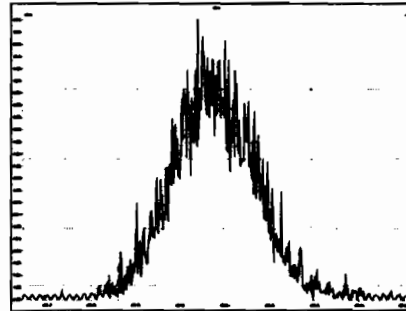


Printed: Friday, January 31, 2020 15:47:45 Pacific Standard Time

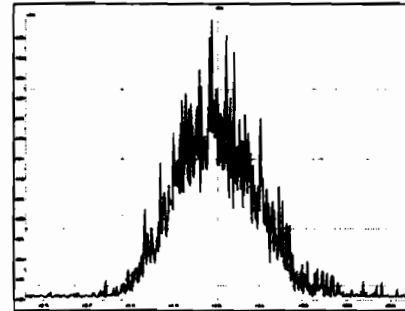
M 416.9760 R 10852



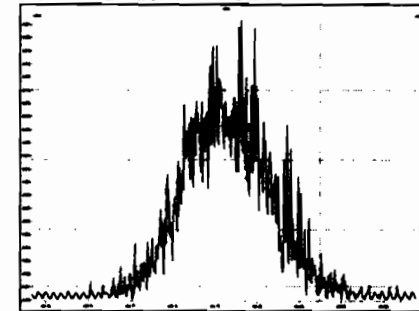
M 430.9728 R 10734



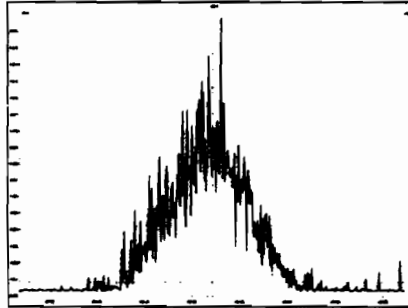
M 442.9728 R 11288



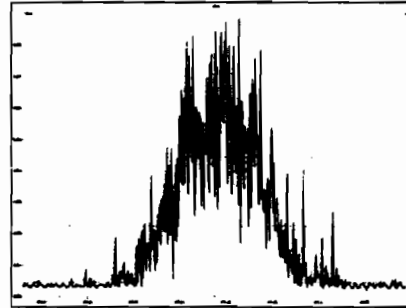
M 454.9728 R 11829



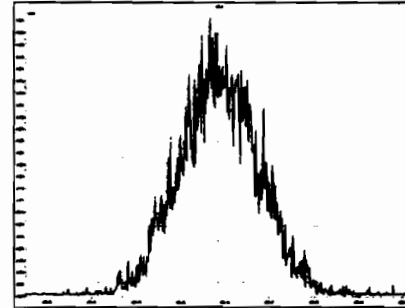
M 404.9760 R 10090



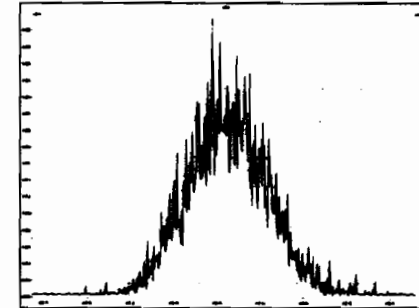
M 416.9760 R 12194



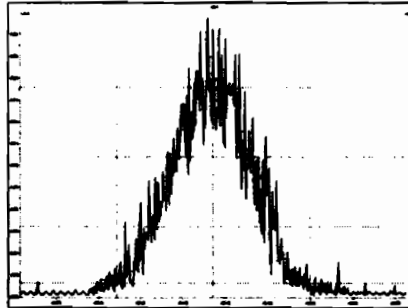
M 430.9728 R 11497



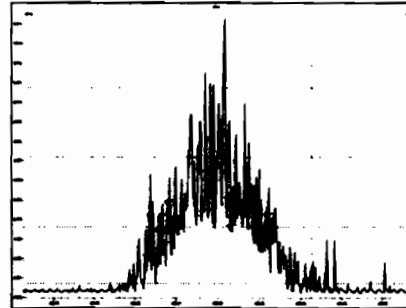
M 442.9728 R 11796



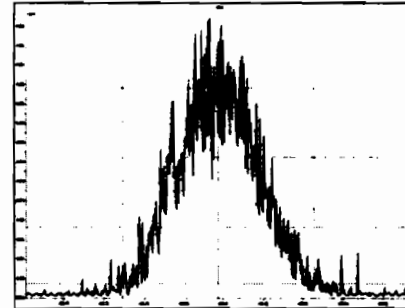
M 454.9728 R 10823



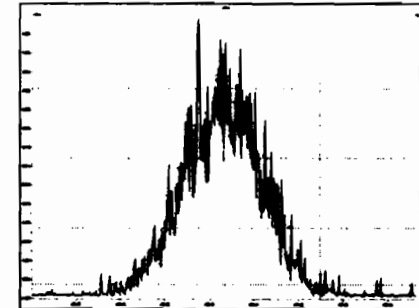
M 466.9728 R 12732



M 480.9696 R 11446

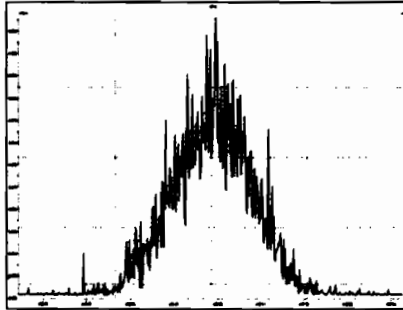


M 430.9728 R 10707

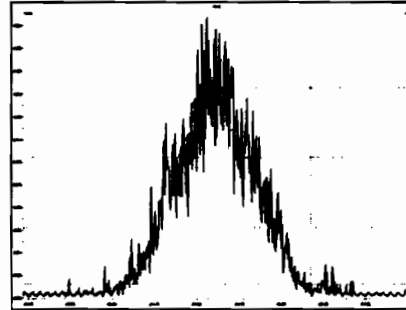


Printed: Friday, January 31, 2020 15:47:45 Pacific Standard Time

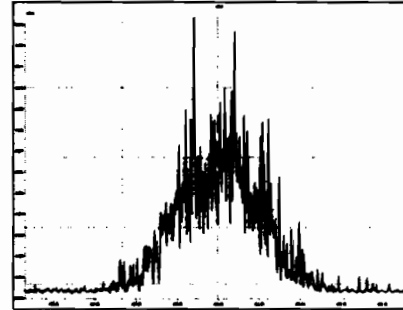
M 442.9728 R 11354



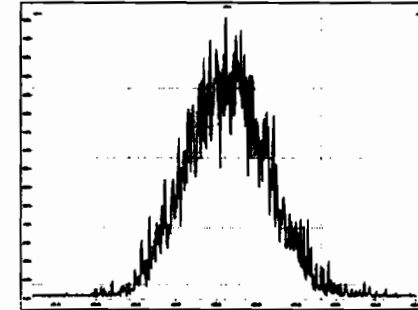
M 454.9728 R 10804



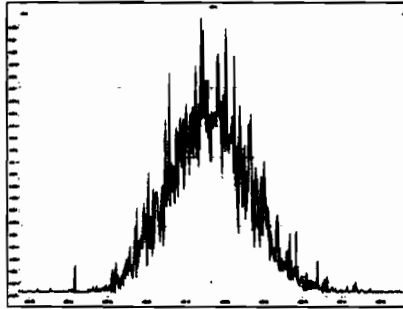
M 466.9728 R 10453



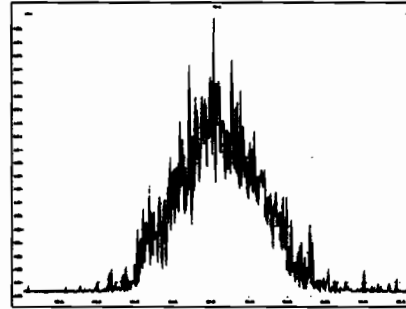
M 480.9696 R 11628



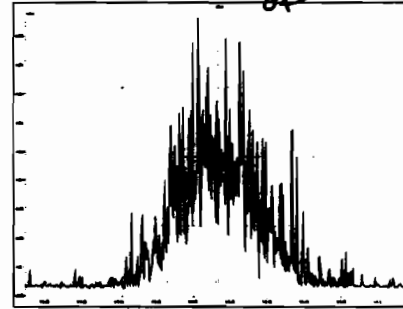
M 492.9696 R 10908



M 504.9696 R 10597



M 516.9697 R 9434 *OK*



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200131R1-7

Reviewed By: HZ 2.4.2020

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"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	<u>GRB</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>GRB</u>	<u>GRB</u>

Mass resolution \geq

5k 6-8K 8K 10K

1614 1699 429 1613/1668/8280

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> A

Intergrated peaks display correctly?

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
-------------------------------------	--

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

NA

Comments:

A END RES CHECK HAD ONE MASS w/ COLUMN BLEED

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-9.qld

Last Altered: Sunday, February 02, 2020 10:38:51 Pacific Standard Time

Printed: Sunday, February 02, 2020 10:41:20 Pacific Standard Time

GRB 02/03/2020

Hc 2-3-20

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200131R1_9, Date: 31-Jan-2020, Time: 23:05:36, ID: ST200131R1_7 1613 CS3 191604, Description: 1613 CS3 191604

#	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	1.02e5	1.05e6	0.81	NO	0.824	25.69	25.69	NO	1.001	1.001	11.772	118	NO
2	2 1,2,3,7,8-PeCDD	3.87e5	7.88e5	0.61	NO	0.912	30.63	30.62	NO	1.001	1.001	53.928	108	NO
3	3 1,2,3,4,7,8-HxCDD	3.49e5	7.04e5	1.22	NO	0.870	33.97	33.98	NO	1.000	1.001	56.894	114	NO
4	4 1,2,3,6,7,8-HxCDD	3.62e5	8.04e5	1.21	NO	0.784	34.06	34.07	NO	1.000	1.000	57.427	115	NO
5	5 1,2,3,7,8,9-HxCDD	3.31e5	7.35e5	1.24	NO	0.798	34.37	34.35	NO	1.001	1.000	56.415	113	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.48e5	5.80e5	1.02	NO	0.737	37.90	37.90	NO	1.000	1.000	57.963	116	NO
7	7 OCDD	4.87e5	1.04e6	0.88	NO	0.800	40.88	40.90	NO	1.000	1.001	117.53	118	NO
8	8 2,3,7,8-TCDF	1.04e5	1.49e6	0.72	NO	0.588	24.80	24.81	NO	1.001	1.001	11.945	119	NO
9	9 1,2,3,7,8-PeCDF	5.87e5	1.26e6	1.55	NO	0.826	29.36	29.34	NO	1.001	1.000	56.245	112	NO
10	10 2,3,4,7,8-PeCDF	5.81e5	1.22e6	1.53	NO	0.850	30.33	30.32	NO	1.001	1.001	56.050	112	NO
11	11 1,2,3,4,7,8-HxCDF	3.30e5	7.51e5	1.19	NO	0.787	33.09	33.10	NO	1.000	1.000	55.928	112	NO
12	12 1,2,3,6,7,8-HxCDF	3.77e5	9.32e5	1.19	NO	0.720	33.23	33.23	NO	1.000	1.000	56.158	112	NO
13	13 2,3,4,6,7,8-HxCDF	3.63e5	8.34e5	1.17	NO	0.766	33.83	33.81	NO	1.001	1.000	56.768	114	NO
14	14 1,2,3,7,8,9-HxCDF	2.86e5	7.22e5	1.17	NO	0.709	34.69	34.71	NO	1.000	1.001	55.797	112	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.32e5	5.81e5	0.96	NO	0.732	36.48	36.46	NO	1.001	1.000	54.594	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.97e5	4.31e5	0.95	NO	0.816	38.47	38.49	NO	1.000	1.001	56.044	112	NO
17	17 OCDF	4.56e5	1.14e6	0.87	NO	0.639	41.07	41.08	NO	1.000	1.000	124.60	125	NO
18	18 13C-2,3,7,8-TCDD	1.05e6	8.91e5	0.80	NO	1.12	25.66	25.66	NO	1.026	1.026	105.46	105	NO
19	19 13C-1,2,3,7,8-PeCDD	7.88e5	8.91e5	0.65	NO	0.841	30.40	30.61	NO	1.215	1.223	105.21	105	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.04e5	7.96e5	1.29	NO	0.938	33.96	33.96	NO	1.014	1.014	94.321	94.3	NO
21	21 13C-1,2,3,6,7,8-HxCDD	8.04e5	7.96e5	1.26	NO	1.07	34.06	34.06	NO	1.017	1.017	94.783	94.8	NO
22	22 13C-1,2,3,7,8,9-HxCDD	7.35e5	7.96e5	1.23	NO	1.03	34.36	34.34	NO	1.026	1.025	89.638	89.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.80e5	7.96e5	1.04	NO	0.710	37.91	37.89	NO	1.132	1.131	102.65	103	NO
24	24 13C-OCDD	1.04e6	7.96e5	0.89	NO	0.601	40.79	40.88	NO	1.218	1.221	216.50	108	NO
25	25 13C-2,3,7,8-TCDF	1.49e6	1.35e6	0.78	NO	1.04	24.84	24.78	NO	0.993	0.990	105.91	106	NO
26	26 13C-1,2,3,7,8-PeCDF	1.26e6	1.35e6	1.55	NO	0.917	29.17	29.34	NO	1.166	1.173	101.85	102	NO
27	27 13C-2,3,4,7,8-PeCDF	1.22e6	1.35e6	1.56	NO	0.903	30.12	30.30	NO	1.204	1.211	99.756	99.8	NO
28	28 13C-1,2,3,4,7,8-HxCDF	7.51e5	7.96e5	0.51	NO	0.861	33.08	33.09	NO	0.988	0.988	109.45	109	NO
29	29 13C-1,2,3,6,7,8-HxCDF	9.32e5	7.96e5	0.51	NO	1.05	33.19	33.22	NO	0.991	0.992	111.85	112	NO
30	30 13C-2,3,4,6,7,8-HxCDF	8.34e5	7.96e5	0.51	NO	0.946	33.79	33.80	NO	1.009	1.009	110.73	111	NO
31	31 13C-1,2,3,7,8,9-HxCDF	7.22e5	7.96e5	0.51	NO	0.816	34.69	34.69	NO	1.036	1.036	111.24	111	NO

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-9.qld

Last Altered: Sunday, February 02, 2020 10:38:51 Pacific Standard Time

Printed: Sunday, February 02, 2020 10:41:20 Pacific Standard Time

Name: 200131R1_9, Date: 31-Jan-2020, Time: 23:05:36, ID: ST200131R1_7 1613 CS3 1911604, Description: 1613 CS3 1911604

#	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	5.81e5	7.96e5	0.42	NO	0.589	36.43	36.45	NO	1.088	1.088	123.82	124	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.31e5	7.96e5	0.44	NO	0.448	38.44	38.47	NO	1.148	1.149	120.83	121	NO
34	34 13C-OCDF	1.14e6	7.96e5	0.86	NO	0.586	41.02	41.07	NO	1.225	1.226	245.46	123	NO
35	35 37Cl-2,3,7,8-TCDD	1.05e5	8.91e5			1.09	25.69	25.69	NO	1.027	1.027	10.828	108	NO
36	36 13C-1,2,3,4-TCDD	8.91e5	8.91e5	0.80	NO	1.00	25.08	25.02	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.35e6	1.35e6	0.78	NO	1.00	23.42	23.36	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.96e5	7.96e5	0.49	NO	1.00	33.52	33.49	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		1.05e6			0.824	24.62		NO	0.000		97.751		NO
40	40 Total Penta-Dioxins		7.88e5			0.912	29.96		NO	0.000		230.57		NO
41	41 Total Hexa-Dioxins		0.00e0			0.784	33.63		NO	0.000		282.06		NO
42	42 Total Hepta-Dioxins		5.80e5			0.737	37.64		NO	0.000		152.81		NO
43	43 Total Tetra-Furans		1.49e6			0.588	23.61		NO	0.000		55.952		NO
44	44 1st Func. Penta-Furans		0.00e0			0.826	27.09		NO	0.000				NO
45	45 Total Penta-Furans		0.00e0			0.826	29.27		NO	0.000		188.91		NO
46	46 Total Hexa-Furans		0.00e0			0.766	33.56		NO	0.000		315.86		NO
47	47 Total Hepta-Furans		0.00e0			0.732	37.83		NO	0.000		110.64		NO

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 10:48:35 Pacific Standard Time

Printed: Sunday, February 02, 2020 10:48:43 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_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

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

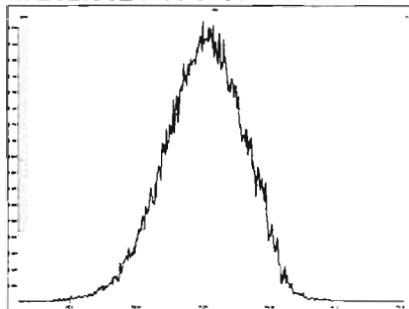
	Name	ID	Acq.Date	Acq.Time
1	200131R1_1	ST200131R1_1 1613 CS0 19L2302	31-Jan-20	16:48:41
2	200131R1_2	ST200131R1_2 1613 CS1 19L2303	31-Jan-20	17:37:04
3	200131R1_3	ST200131R1_3 1613 CS2 19L2304	31-Jan-20	18:23:19
4	200131R1_4	ST200131R1_4 1613 CS3 19L2305	31-Jan-20	19:10:18
5	200131R1_5	ST200131R1_5 1613 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	(A) 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	(A) 200131R1_18	1903647-05@2X PDI-067SC-B-06-08-191010 ...	01-Feb-20	06:08:35
19	(A) 200131R1_19	1903647-02@10X PDI-067SC-B-00-02-191010 ...	01-Feb-20	06:55:34

(A) ST200131R1-7 ONLY USED FOR TWO SAMPLES

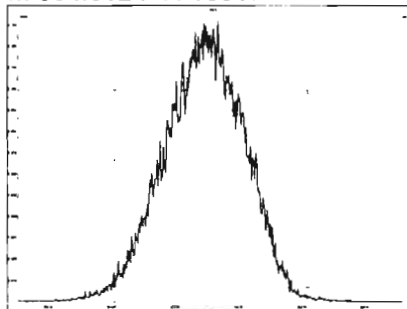
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:41:39 Pacific Standard Time

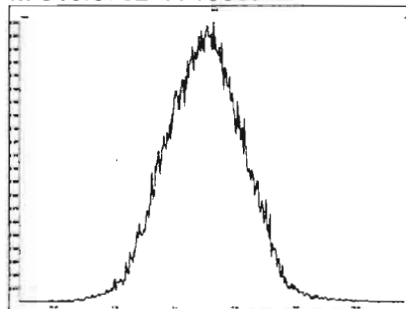
M 292.9824 R 10370



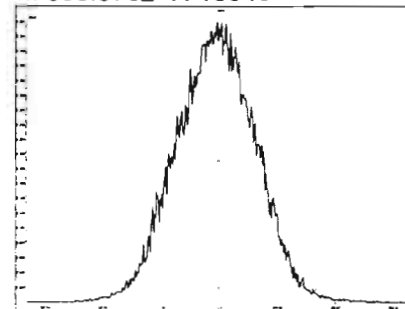
M 304.9824 R 10917



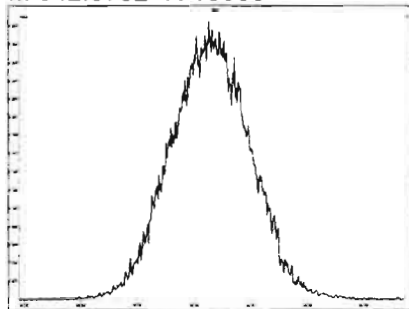
M 318.9792 R 10637



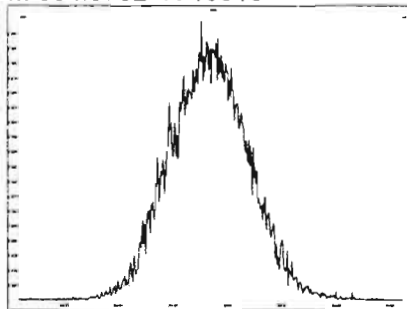
M 330.9792 R 10640



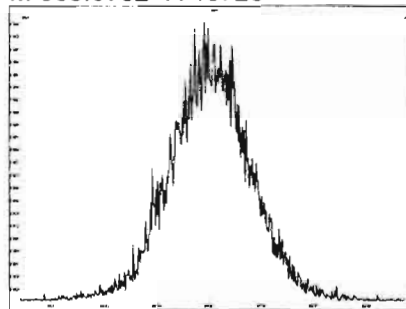
M 342.9792 R 10593



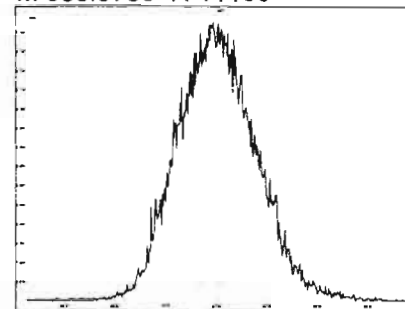
M 354.9792 R 10919



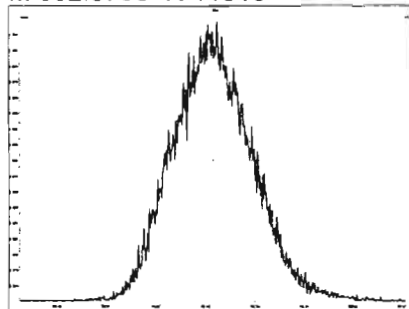
M 366.9792 R 10726



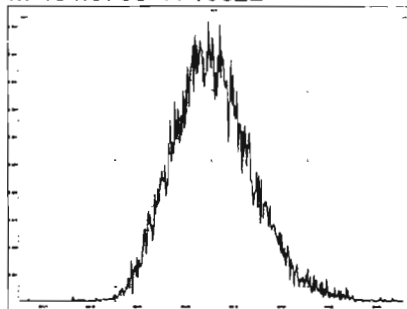
M 380.9760 R 11160



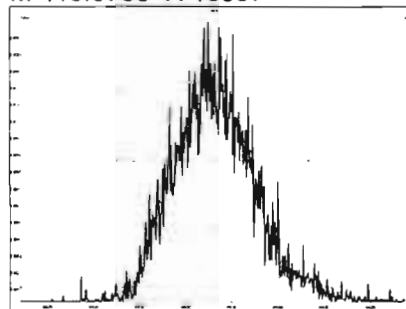
M 392.9760 R 11015



M 404.9760 R 10822



M 416.9760 R 10507



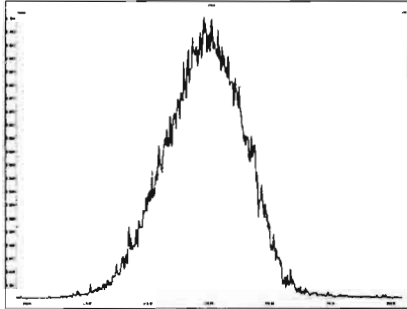
Experiment Calibration Report

MassLynx 4.1 SCN815

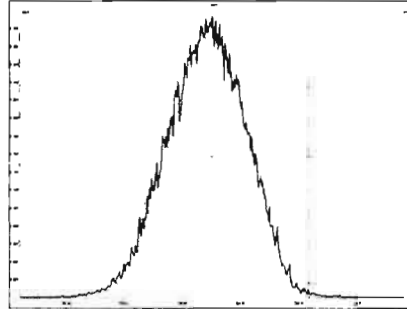
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:42:23 Pacific Standard Time

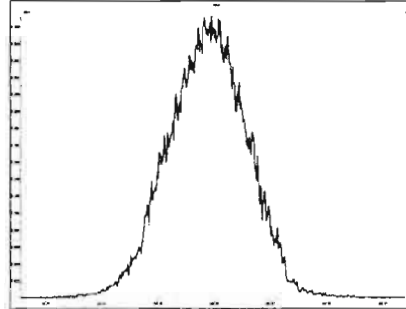
M 318.9792 R 11110



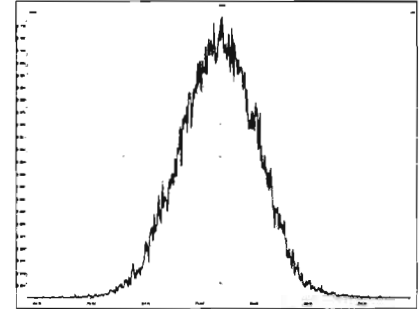
M 330.9792 R 10681



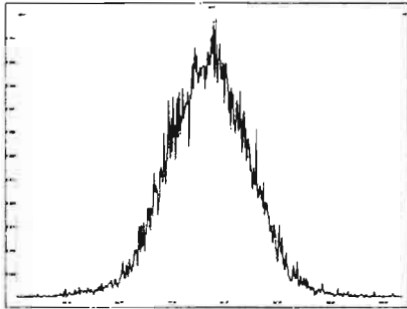
M 342.9792 R 10776



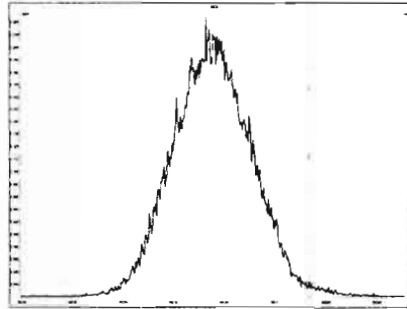
M 354.9792 R 10920



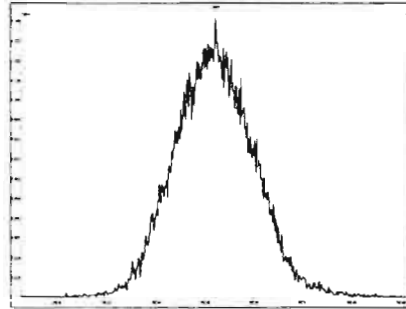
M 366.9792 R 10730



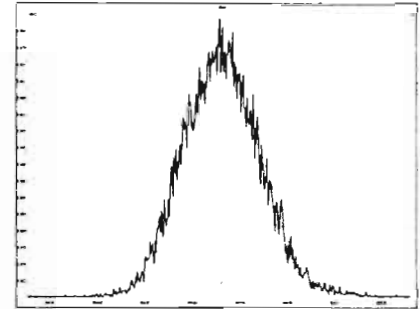
M 380.9760 R 10729



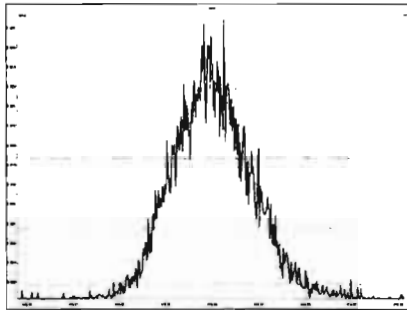
M 392.9760 R 10778



M 404.9760 R 10917



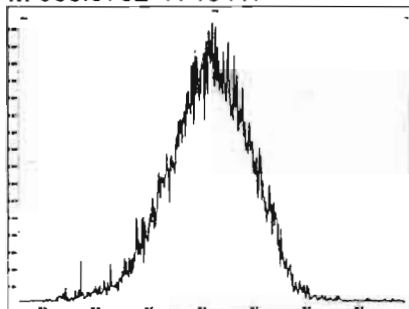
M 416.9760 R 10503



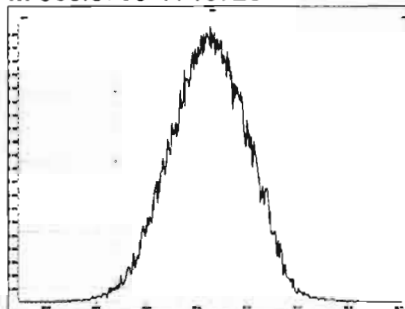
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:43:30 Pacific Standard Time

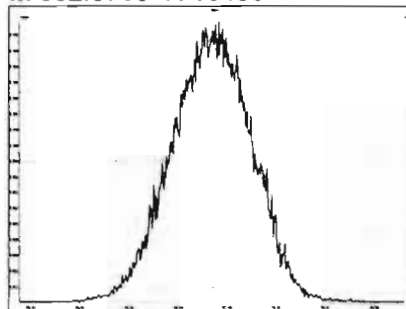
M 366.9792 R 10417



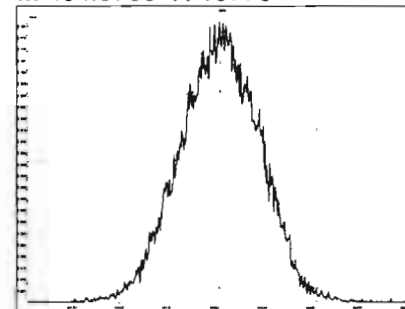
M 380.9760 R 10729



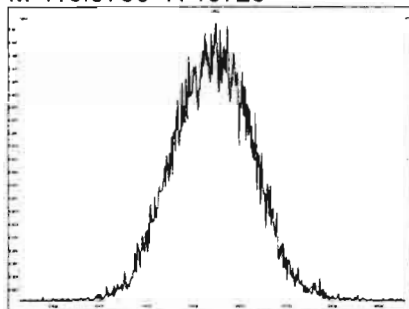
M 392.9760 R 10458



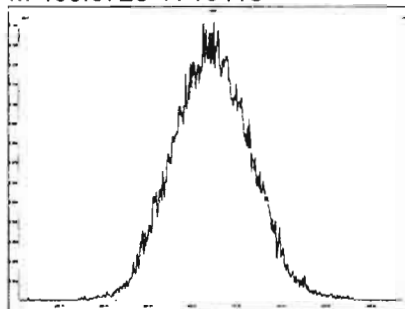
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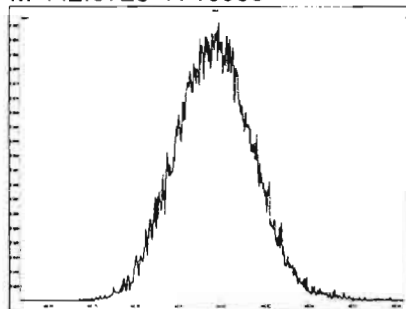
M 416.9760 R 10728



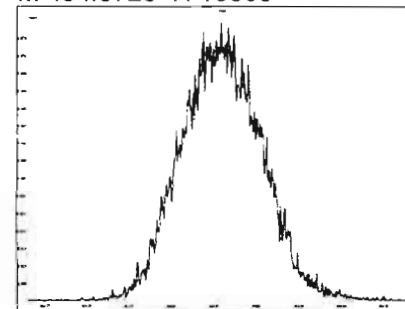
M 430.9728 R 10418



M 442.9728 R 10965



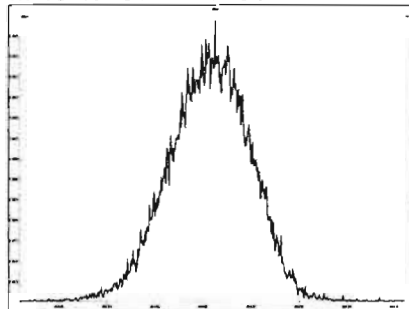
M 454.9728 R 10503



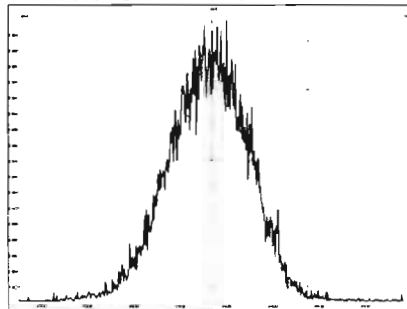
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Printed: Friday, January 31, 2020 16:44:27 Pacific Standard Time

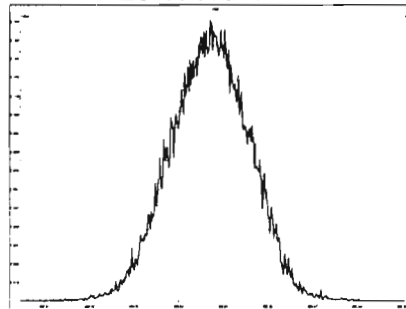
M 404.9760 R 10461



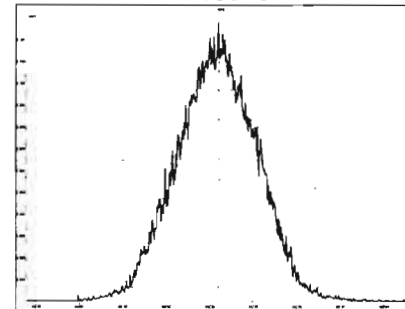
M 416.9760 R 10503



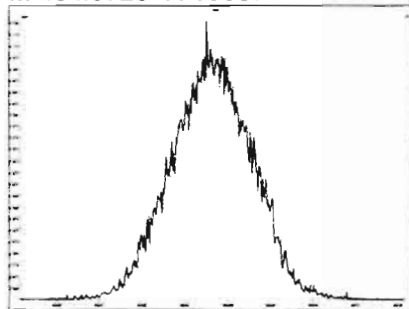
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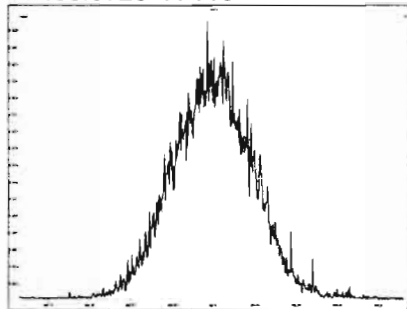
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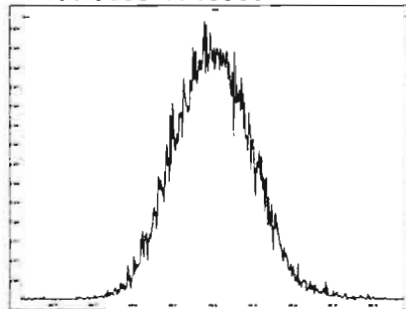
M 454.9728 R 10637



M 466.9728 R 11014



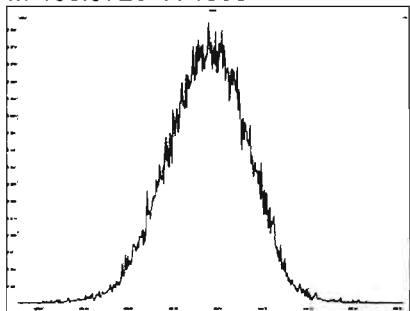
M 480.9696 R 10965



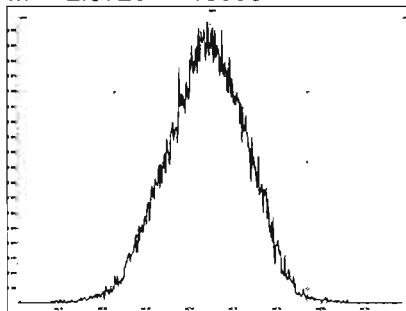
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Printed: Friday, January 31, 2020 16:45:52 Pacific Standard Time

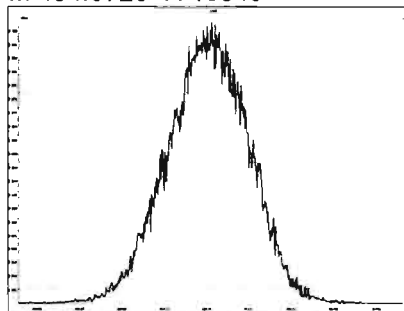
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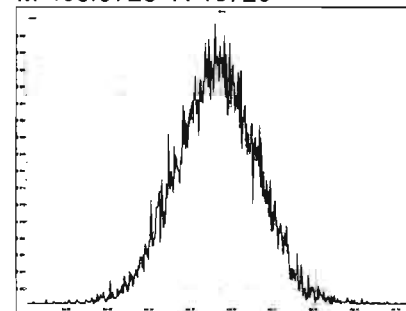
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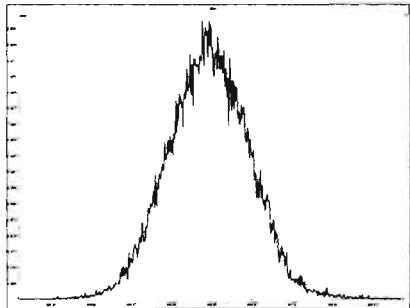
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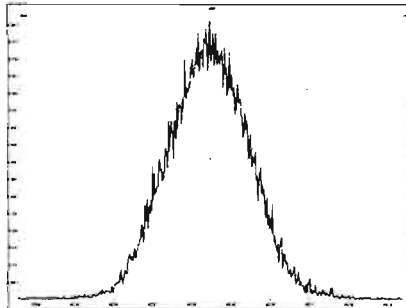
M 466.9728 R 10729



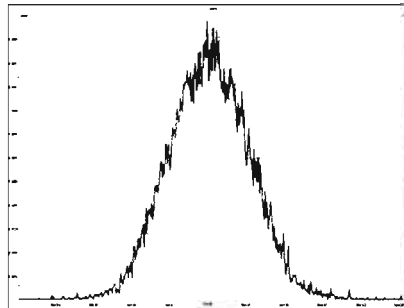
M 480.9696 R 10415



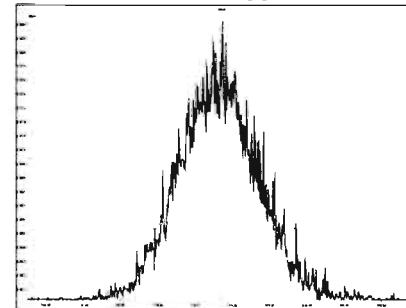
M 492.9696 R 10163



M 504.9696 R 10290



M 516.9697 R 10286



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 10:41:59 Pacific Standard Time

Printed: Sunday, February 02, 2020 10:42:09 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200131R1_9, Date: 31-Jan-2020, Time: 23:05:36, ID: ST200131R1_7 1613 CS3 1911604, Description: 1613 CS3 1911604

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.71
2	2 1,2,8,9-TCDD (Last)	26.65
3	3 1,2,4,7,9-PeCDD (First)	28.42
4	4 1,2,3,8,9-PeCDD (Last)	31.00
5	5 1,2,4,6,7,9-HxCDD (First)	32.49
6	6 1,2,3,7,8,9-HxCDD (Last)	34.35
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.84
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.90
9	9 1,3,6,8-TCDF (First)	19.61
10	10 1,2,8,9-TCDF (Last)	26.80
11	11 1,3,4,6,8-PeCDF (First)	26.75
12	12 1,2,3,8,9-PeCDF (Last)	31.25
13	13 1,2,3,4,6,8-HxCDF (First)	31.94
14	14 1,2,3,7,8,9-HxCDF (Last)	34.71
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.46
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.80

Dataset: Untitled

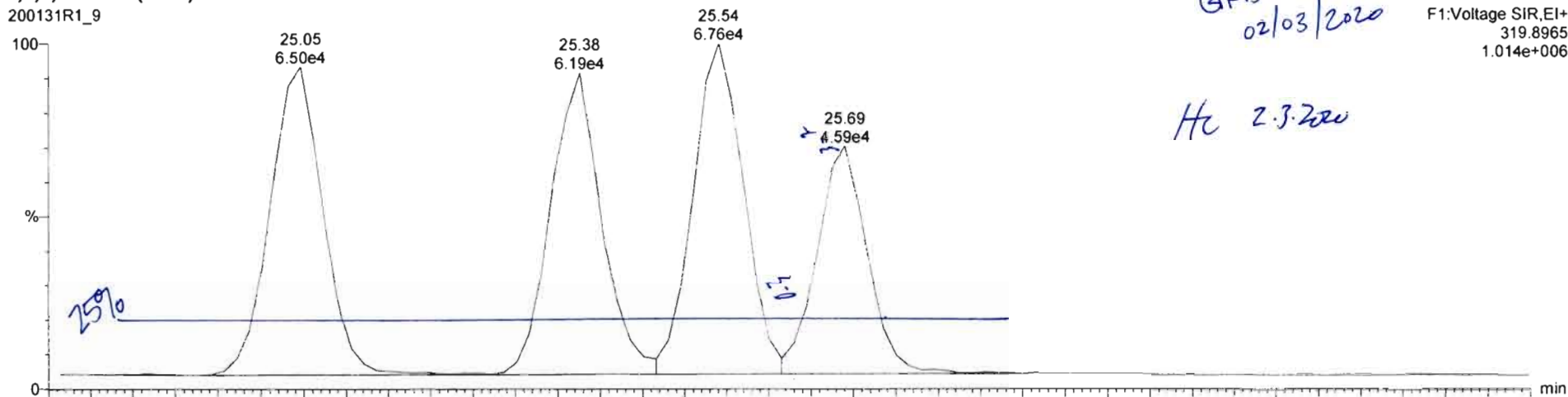
Last Altered: Sunday, February 02, 2020 10:41:59 Pacific Standard Time
Printed: Sunday, February 02, 2020 10:42:09 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

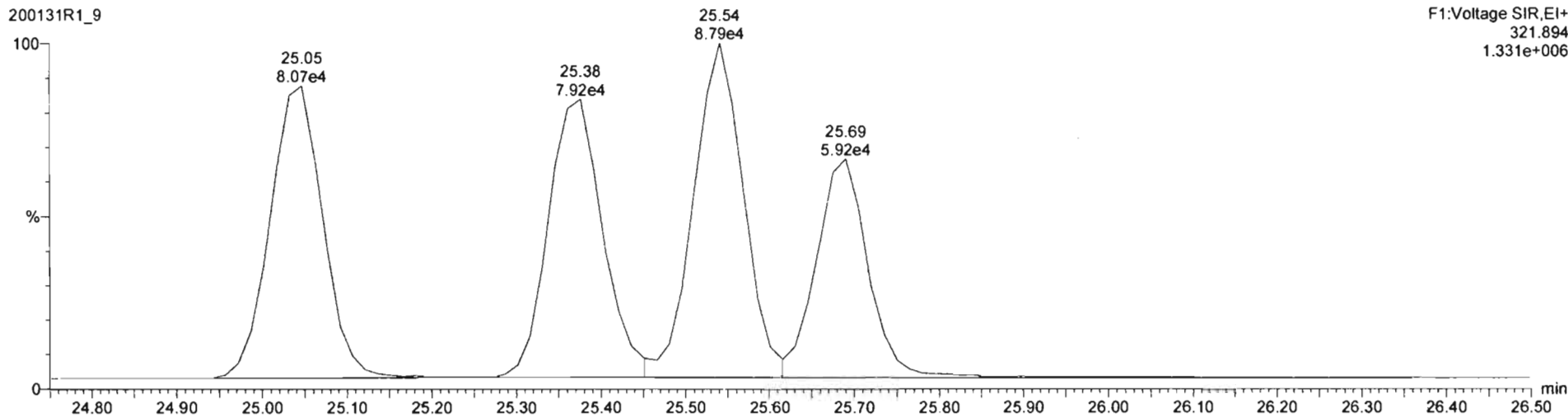
Name: 200131R1_9, Date: 31-Jan-2020, Time: 23:05:36, ID: ST200131R1_7 1613 CS3 1911604, Description: 1613 CS3 1911604

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

200131R1_9



200131R1_9



Dataset: Untitled

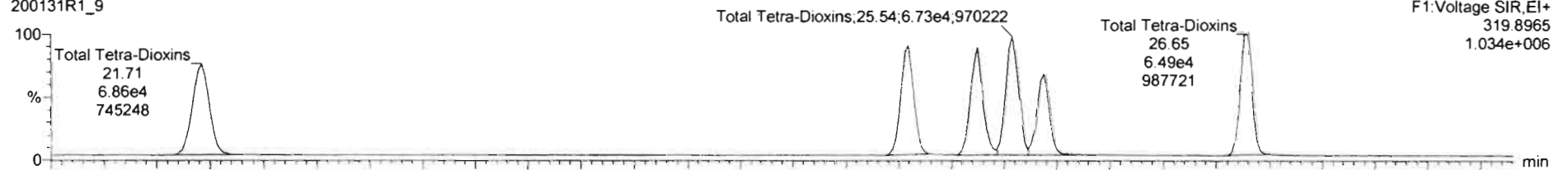
Last Altered: Sunday, February 02, 2020 10:41:30 Pacific Standard Time
Printed: Sunday, February 02, 2020 10:41:49 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

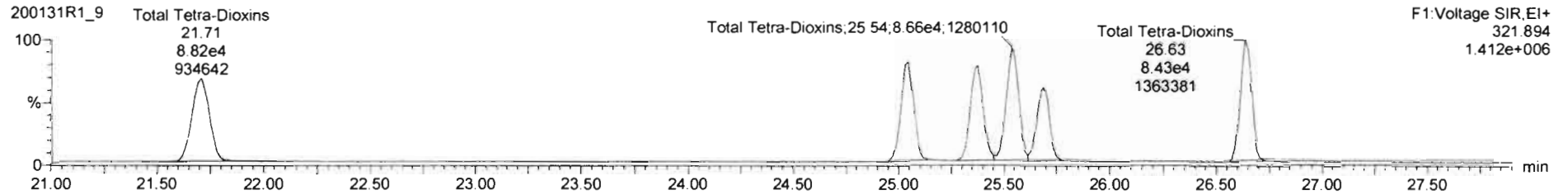
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2,3,7,8-TCDD

200131R1_9

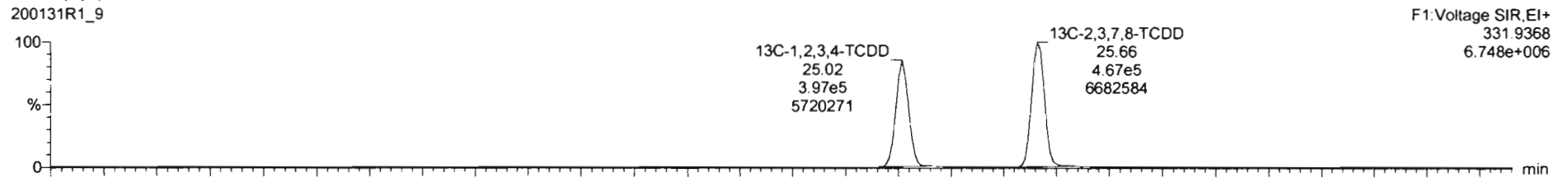


200131R1_9

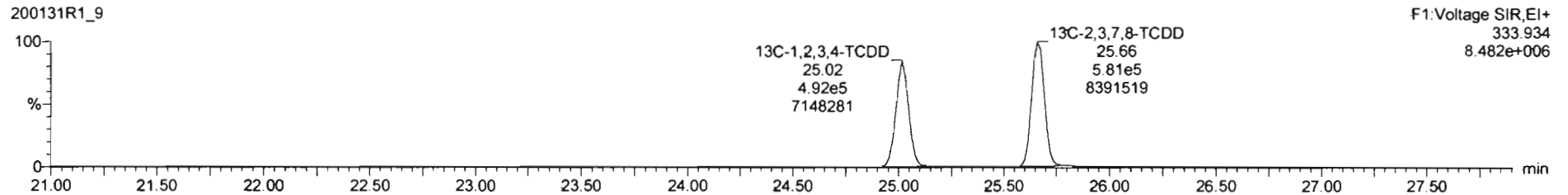


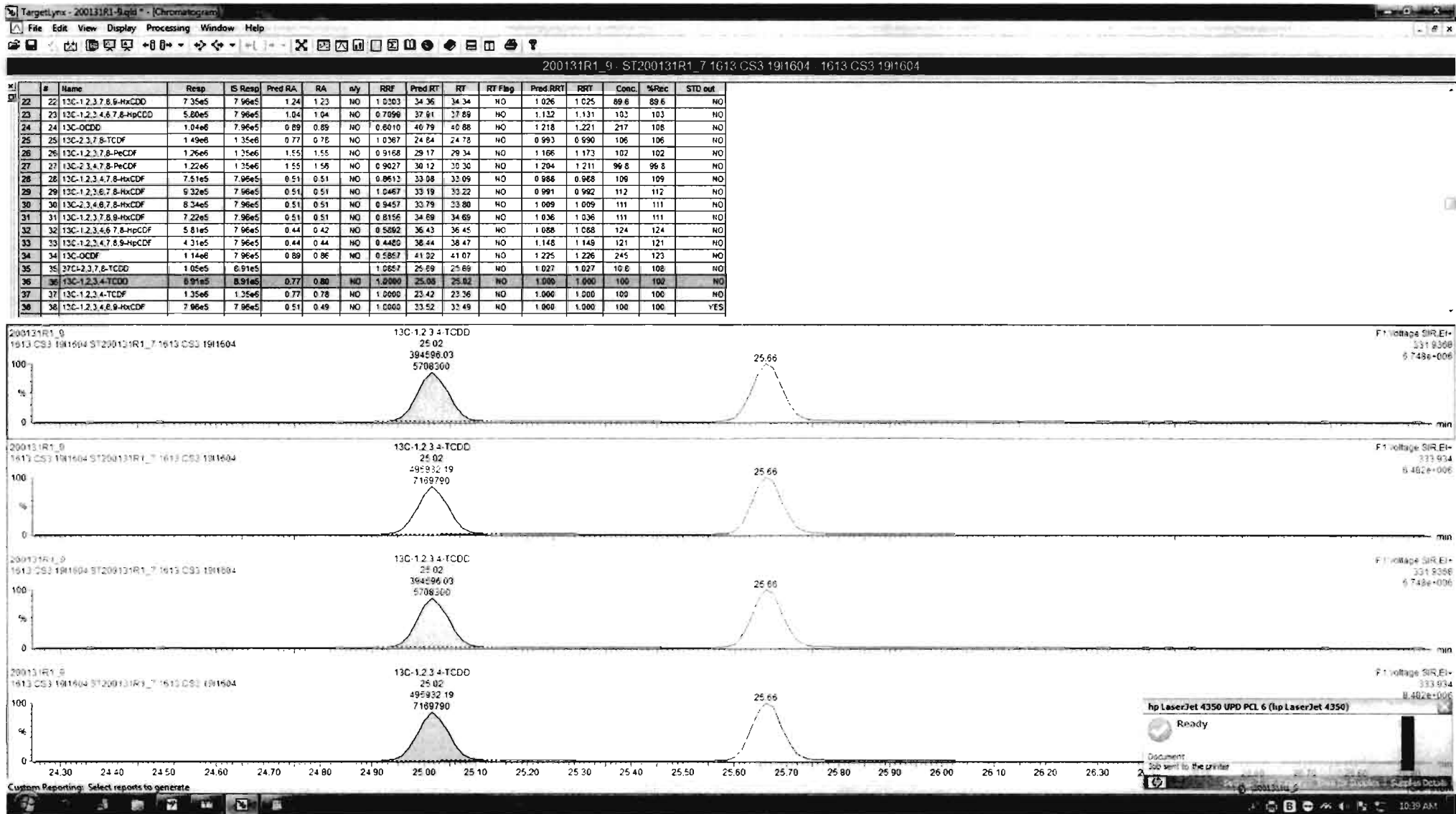
13C-2,3,7,8-TCDD

200131R1_9



200131R1_9





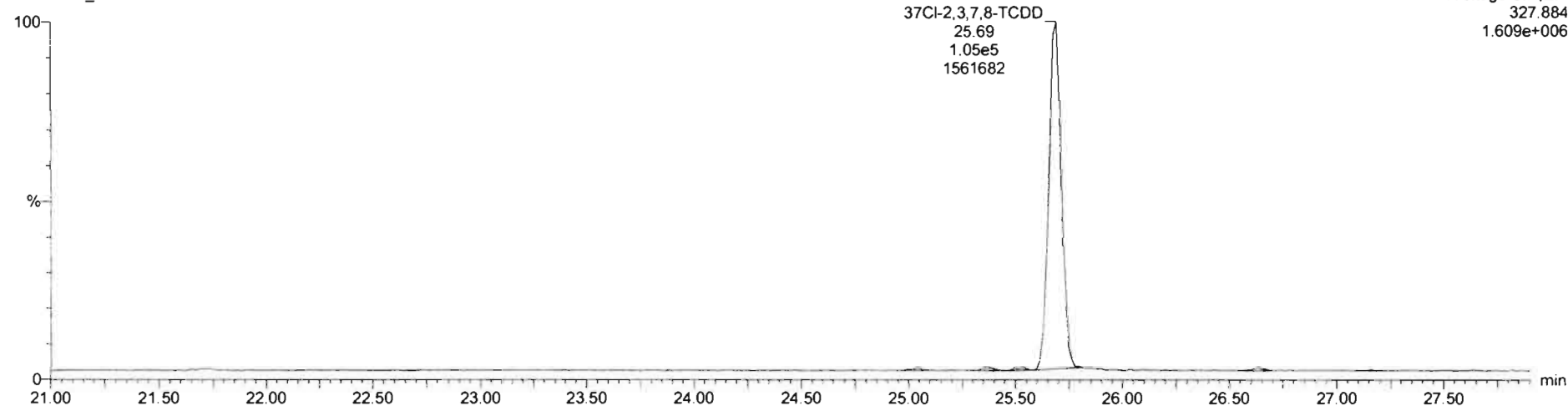
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 10:41:30 Pacific Standard Time
Printed: Sunday, February 02, 2020 10:41:49 Pacific Standard Time

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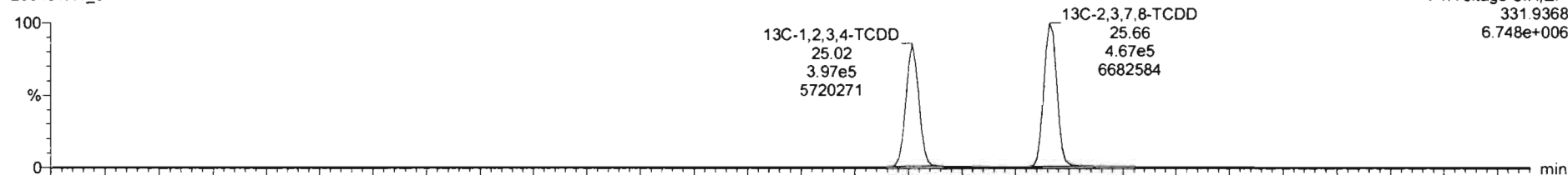
37Cl-2,3,7,8-TCDD

200131R1_9

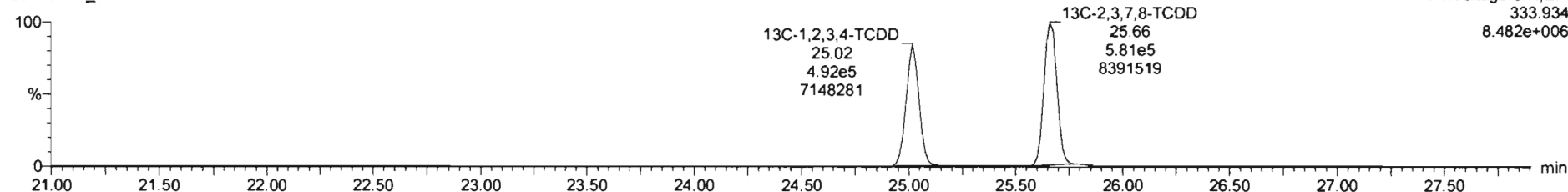


13C-1,2,3,4-TCDD

200131R1_9



200131R1_9

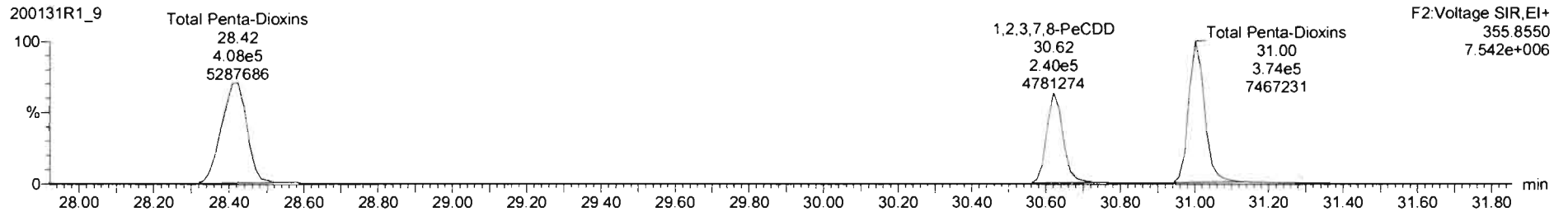
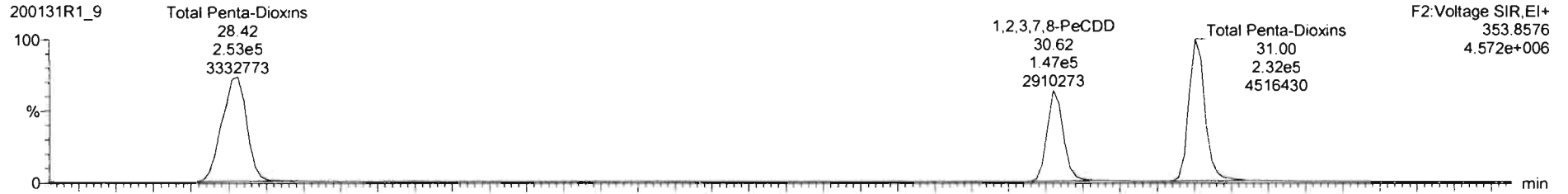


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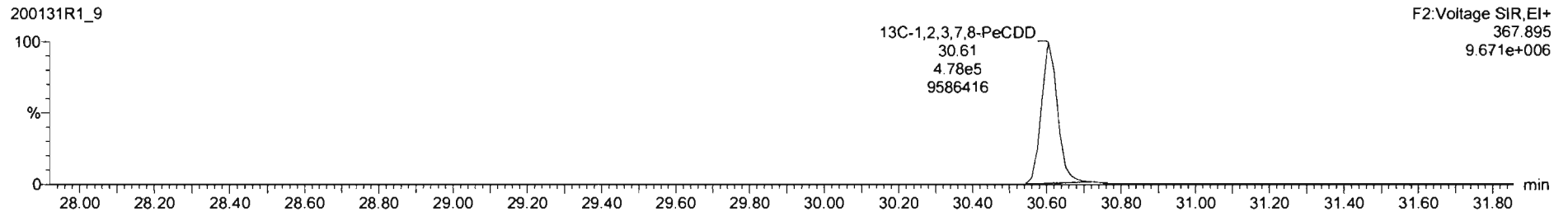
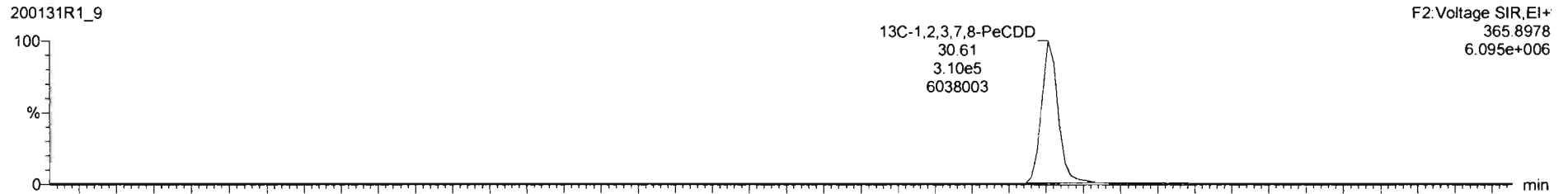
Last Altered: Sunday, February 02, 2020 10:41:30 Pacific Standard Time
Printed: Sunday, February 02, 2020 10:41:49 Pacific Standard Time

Name: 200131R1_9, Date: 31-Jan-2020, Time: 23:05:36, ID: ST200131R1_7 1613 CS3 1911604, Description: 1613-CS3 1911604

1,2,3,7,8-PeCDD



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



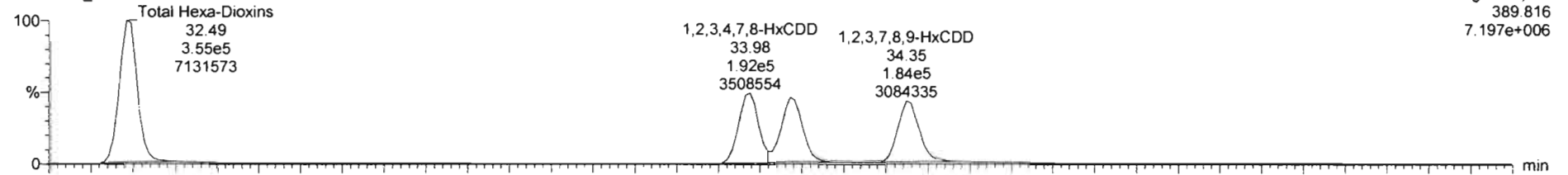
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Last Altered: Sunday, February 02, 2020 10:41:30 Pacific Standard Time
Printed: Sunday, February 02, 2020 10:41:49 Pacific Standard Time

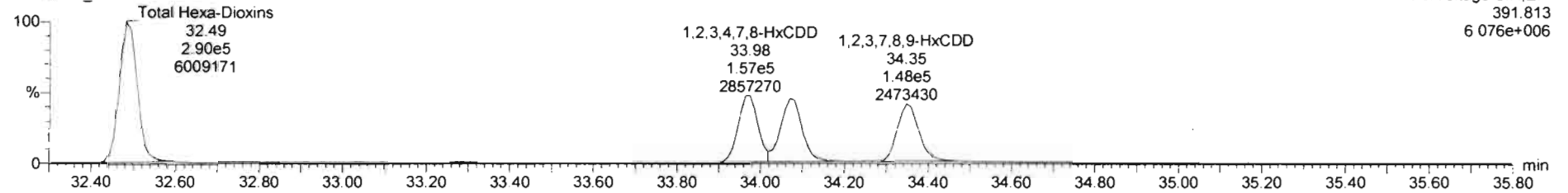
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1,2,3,4,7,8-HxCDD

200131R1_9

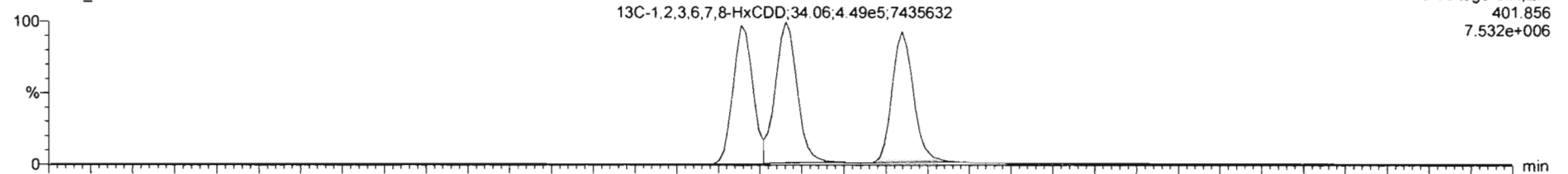


200131R1_9

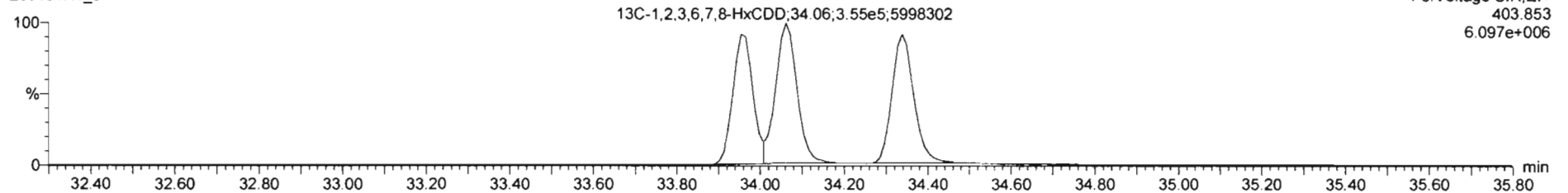


13C-1,2,3,4,7,8-HxCDD

200131R1_9



200131R1_9



Dataset: Untitled

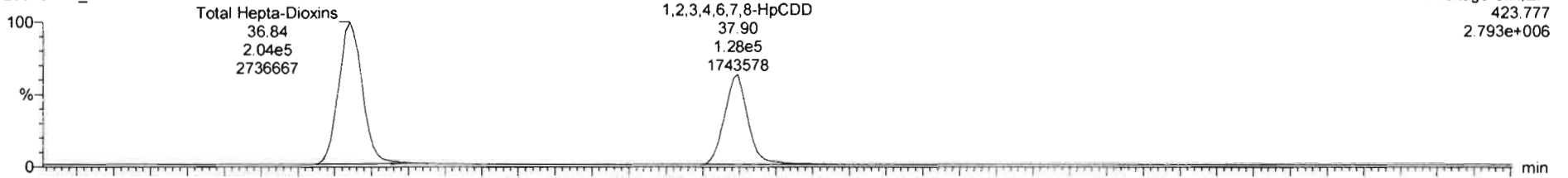
Last Altered: Sunday, February 02, 2020 10:41:30 Pacific Standard Time

Printed: Sunday, February 02, 2020 10:41:49 Pacific Standard Time

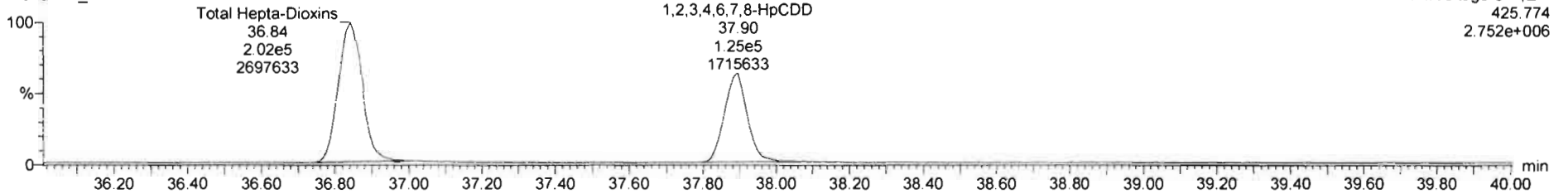
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1,2,3,4,6,7,8-HpCDD

200131R1_9

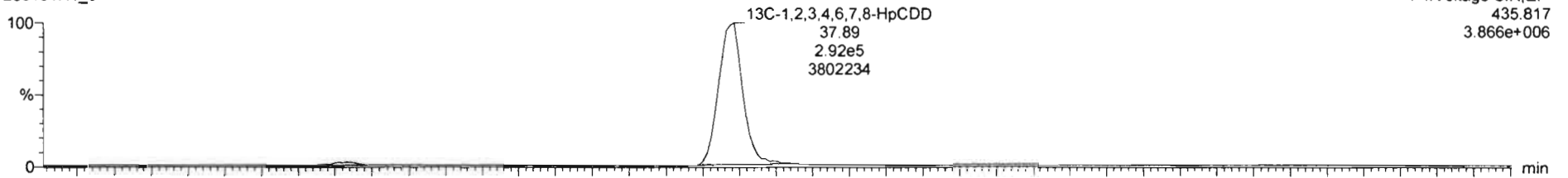


200131R1_9

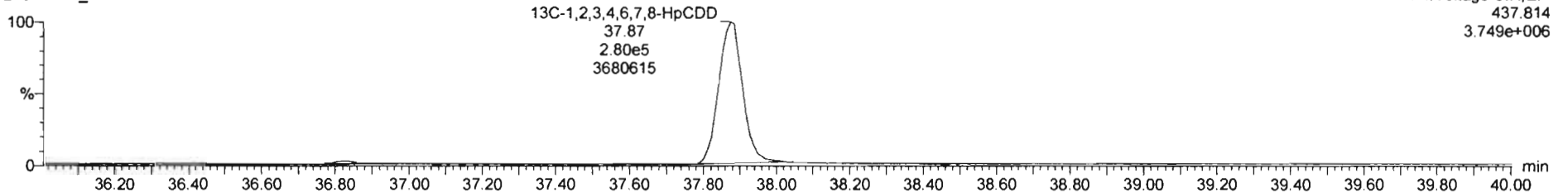


13C-1,2,3,4,6,7,8-HpCDD

200131R1_9

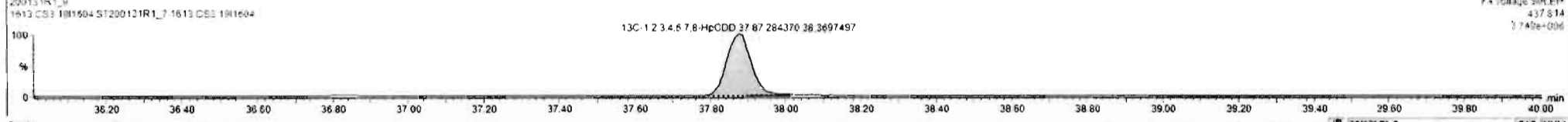
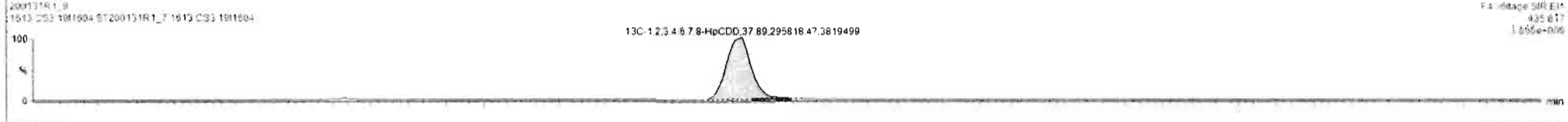
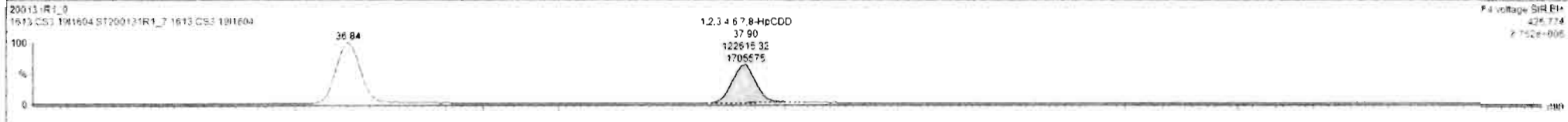
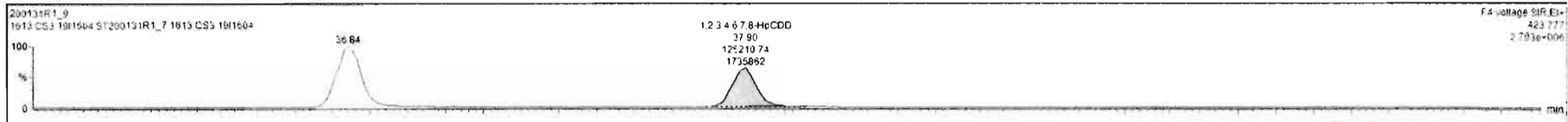


200131R1_9



200131R1_9 - ST200131R1_7 1613 CS3 191604 1613 CS3 191604

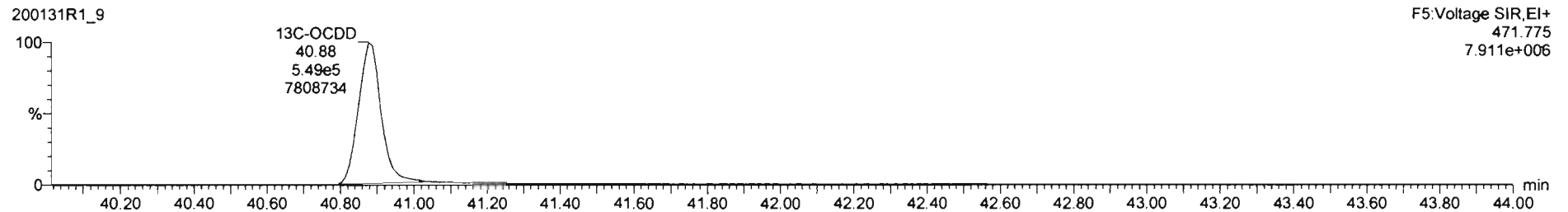
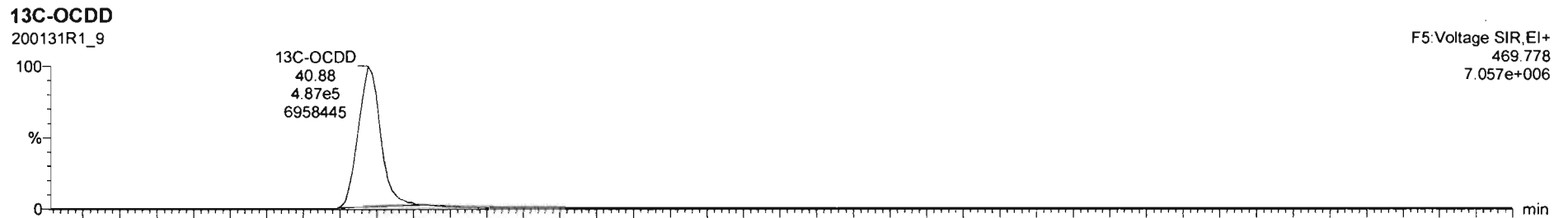
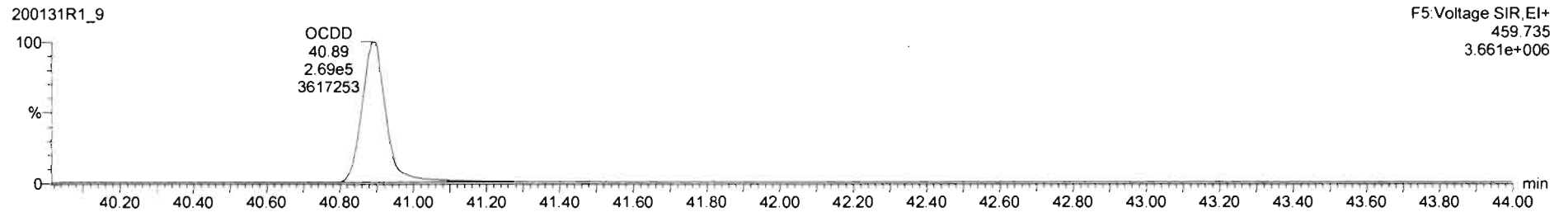
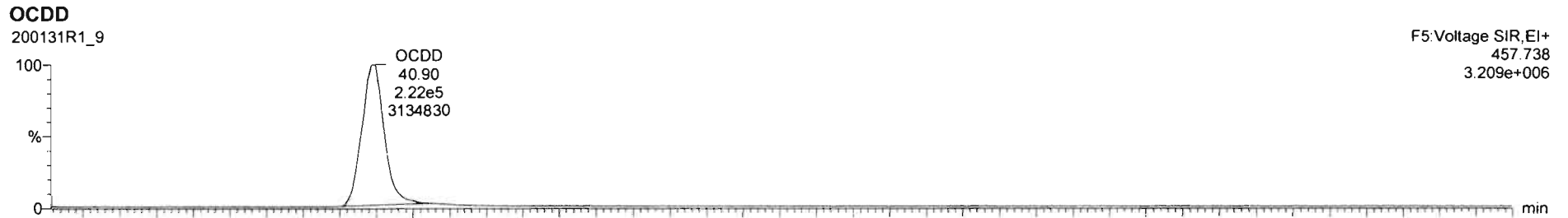
#	Name	Resp	IS Resp	Pred RA	RA	ny	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	1.02e5	1.05e5	0.77	0.81	NO	0.8240	25.89	25.89	NO	1.001	1.001	11.6	118	NO
2	1,2,3,7,8-PeCDD	3.87e5	7.88e5	0.63	0.61	NO	0.9116	30.63	30.62	NO	1.001	1.001	53.9	108	NO
3	1,2,3,4,7,8-HxCDD	3.49e5	7.04e5	1.24	1.22	NO	0.8704	33.97	33.98	NO	1.000	1.001	56.9	114	NO
4	1,2,3,6,7,8-HxCDD	3.62e5	8.04e5	1.24	1.21	NO	0.7841	34.06	34.07	NO	1.000	1.000	57.4	115	NO
5	1,2,3,7,8,9-HxCDD	3.31e5	7.35e5	1.24	1.24	NO	0.7985	34.37	34.35	NO	1.001	1.000	56.4	113	NO
6	1,2,3,4,6,7,8-HpCDD	2.45e5	5.60e5	1.04	1.02	NO	0.7369	37.90	37.90	NO	1.000	1.000	58.0	116	NO
7	OCDD	4.81e5	1.04e6	0.89	0.83	NO	0.8060	40.28	40.80	NO	1.000	1.001	118	118	NO
8	2,3,7,8-TCDF	1.04e5	1.49e6	0.77	0.72	NO	0.5878	24.80	24.81	NO	1.001	1.001	11.9	119	NO
9	1,2,3,7,8-PeCDF	5.87e5	1.26e6	1.55	1.55	NO	0.8261	29.38	29.34	NO	1.001	1.000	56.2	112	NO
10	2,3,4,7,8-PeCDF	5.81e5	1.22e6	1.55	1.53	NO	0.6498	30.33	30.32	NO	1.001	1.001	56.1	112	NO
11	1,2,3,4,7,8-HxCDF	3.30e5	7.51e5	1.24	1.19	NO	0.7868	33.09	33.10	NO	1.000	1.000	56.9	112	NO
12	1,2,3,6,7,8-HxCDF	3.77e5	9.32e5	1.24	1.18	NO	0.7201	33.23	33.23	NO	1.000	1.000	56.2	112	NO
13	2,3,4,6,7,8-HxCDF	3.63e5	8.34e5	1.24	1.17	NO	0.7665	33.83	33.81	NO	1.001	1.000	56.8	114	NO
14	1,2,3,7,8,9-HxCDF	2.86e5	7.22e5	1.24	1.17	NO	0.7986	34.69	34.71	NO	1.000	1.001	55.6	112	NO
15	1,2,3,4,6,7,8-HpCDF	2.32e5	5.81e5	1.04	0.96	NO	0.7316	36.48	36.46	NO	1.001	1.000	54.6	109	NO
16	1,2,3,4,7,8,9-HpCDF	1.97e5	4.31e5	1.04	0.95	NO	0.8164	38.47	38.49	NO	1.000	1.001	56.0	112	NO
17	OCDF	4.56e5	1.14e6	0.89	0.87	NO	0.6388	41.07	41.08	NO	1.000	1.000	125	125	NO

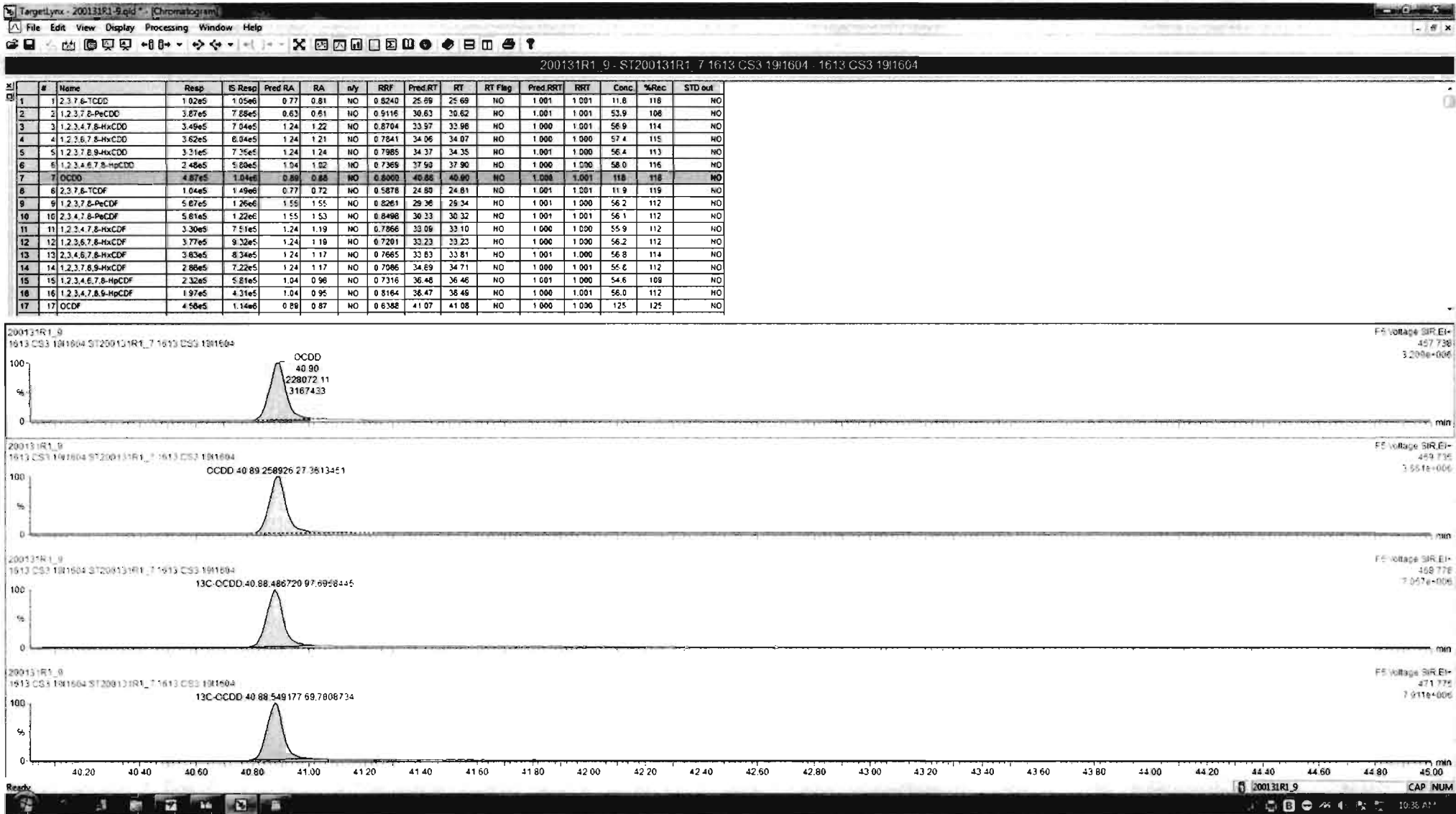


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Last Altered: Sunday, February 02, 2020 10:41:30 Pacific Standard Time
Printed: Sunday, February 02, 2020 10:41:49 Pacific Standard Time

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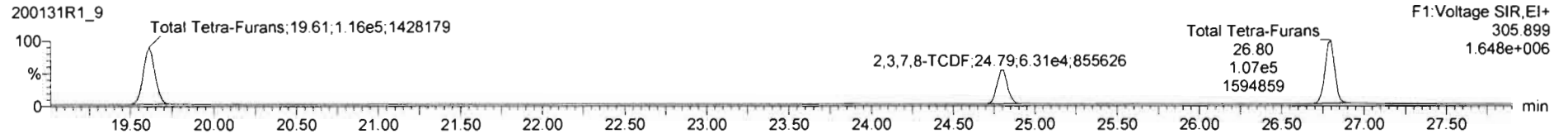
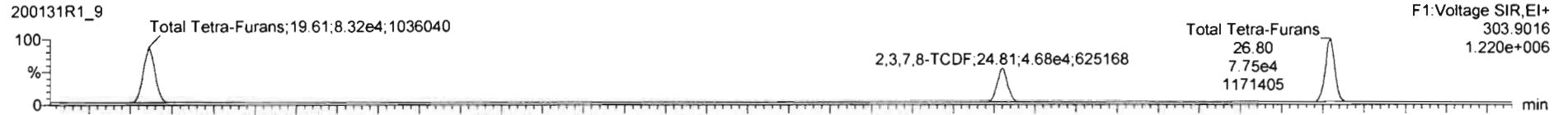


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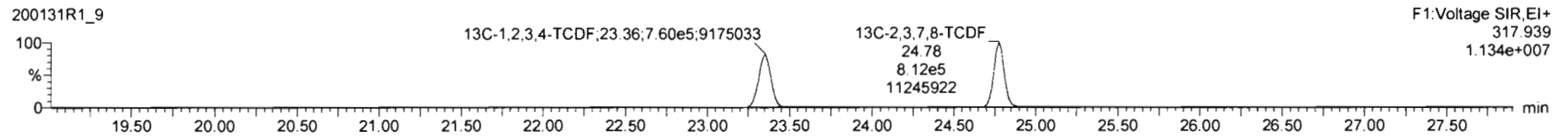
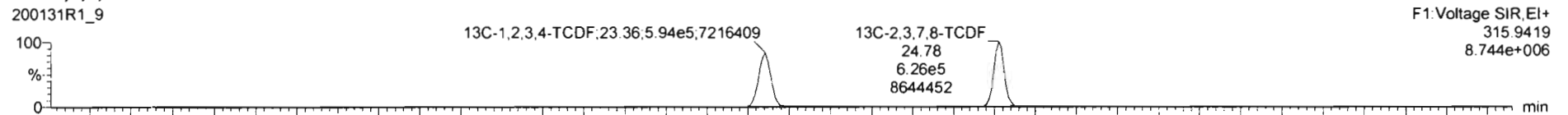
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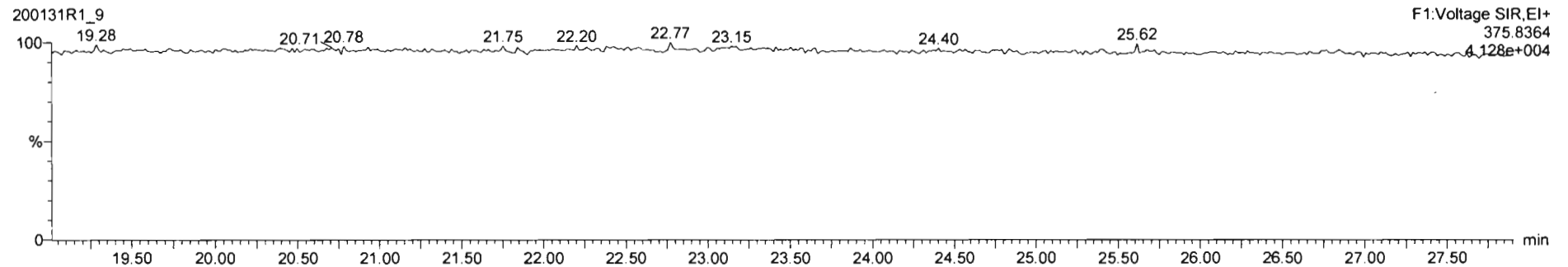
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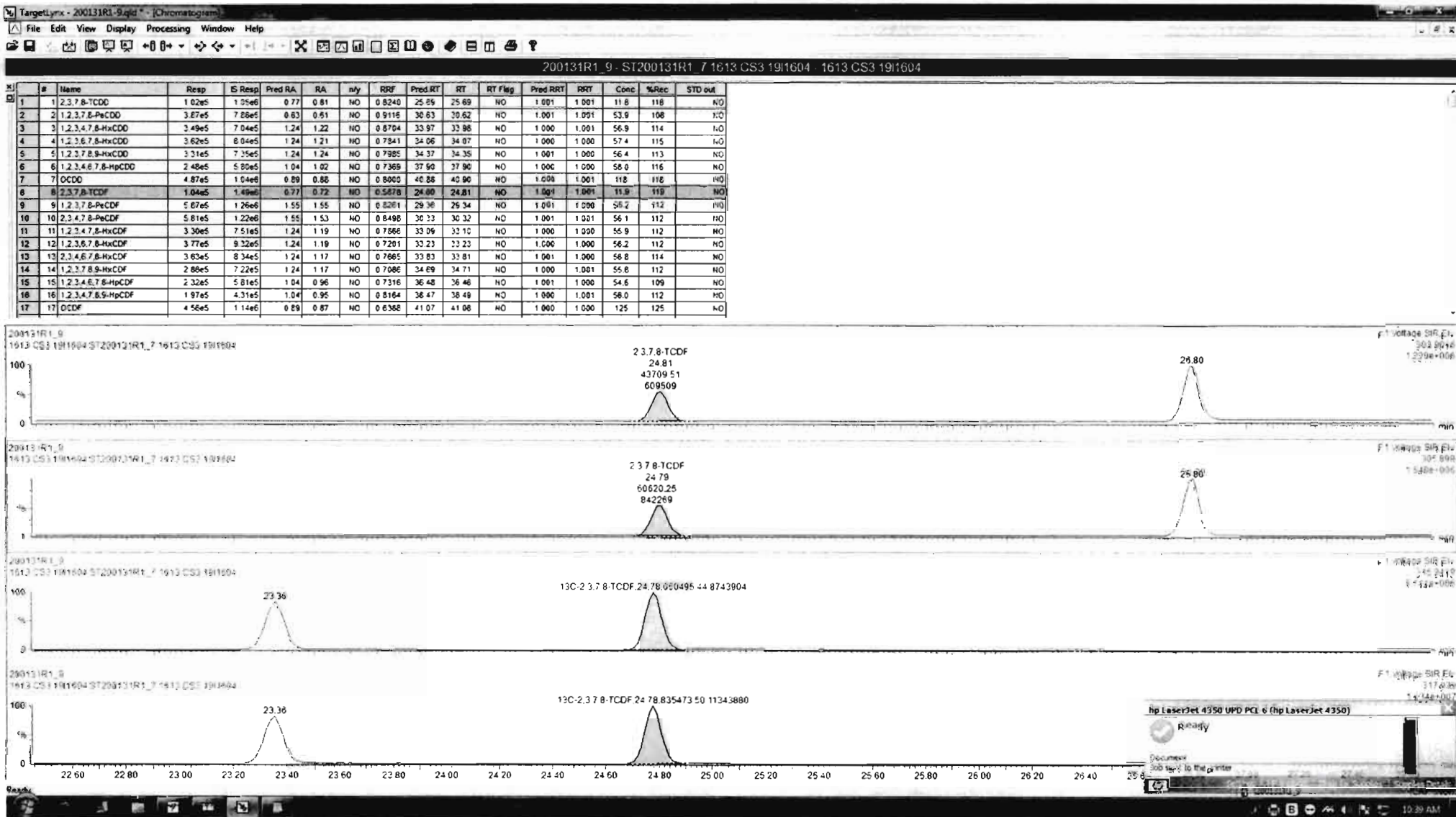


13C-2,3,7,8-TCDF



DPE1





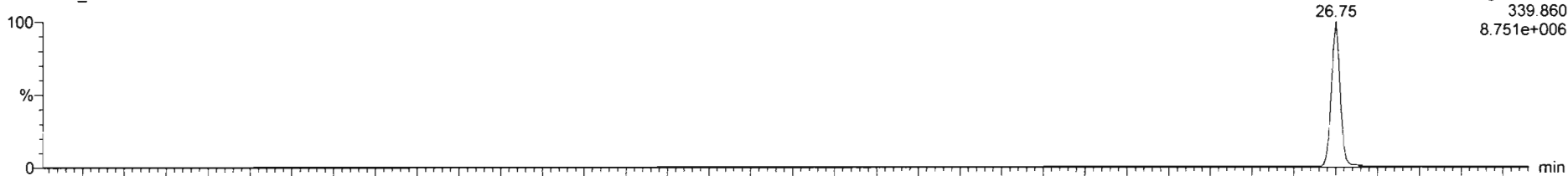
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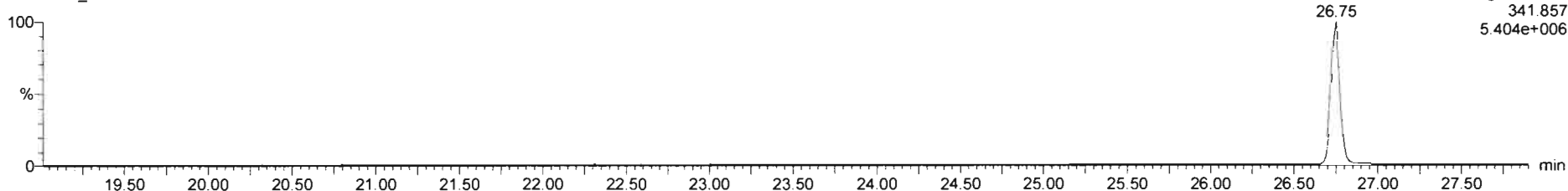
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200131R1_9

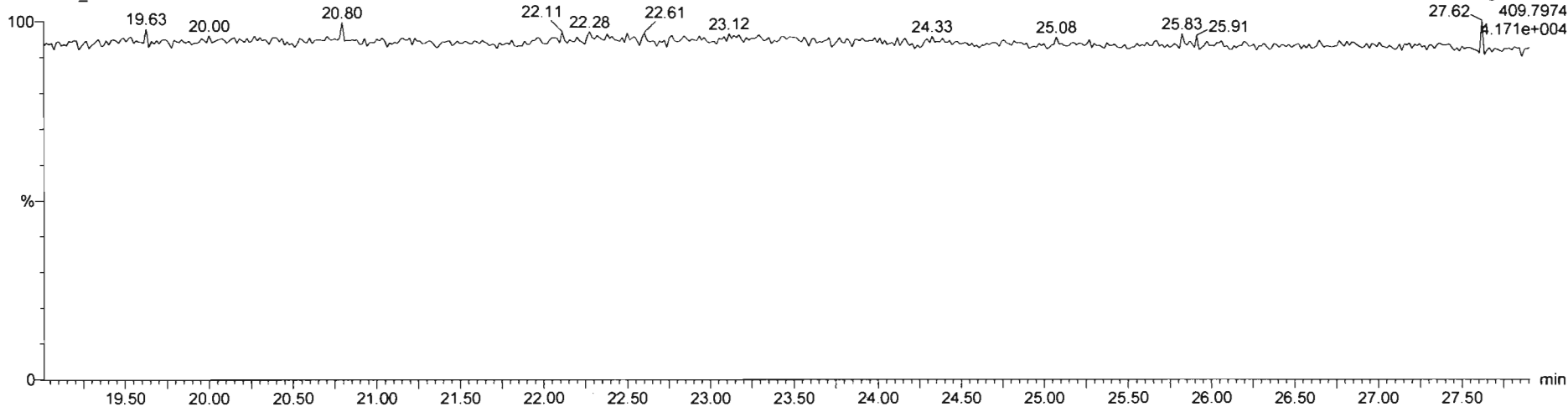


200131R1_9



DPE6

200131R1_9



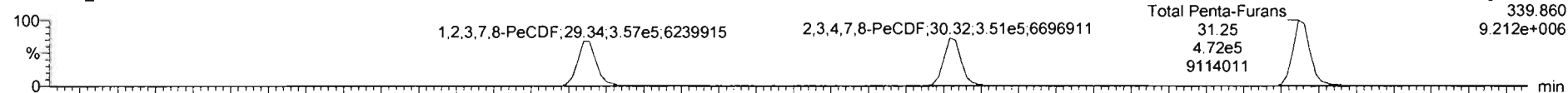
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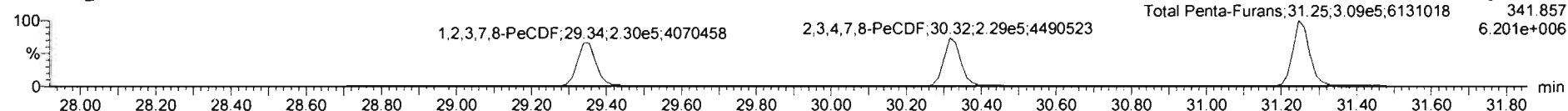
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1,2,3,7,8-PeCDF

200131R1_9

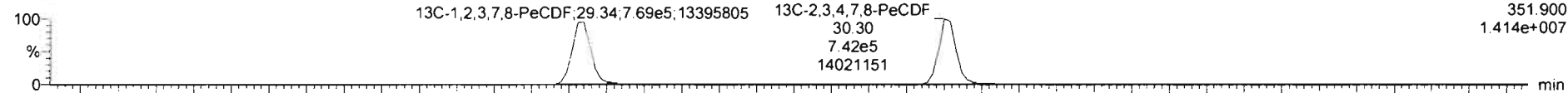


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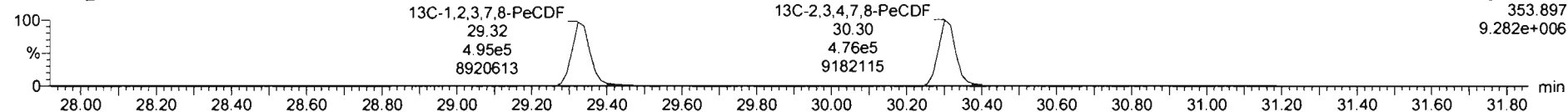


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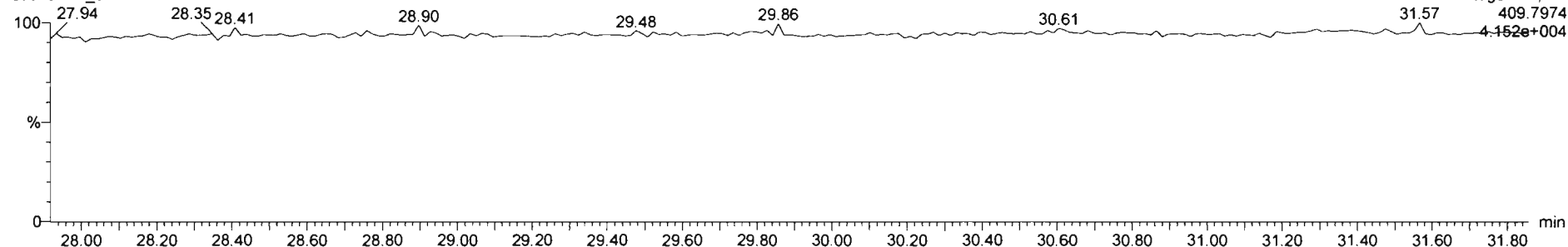


200131R1_9



DPE2

200131R1_9



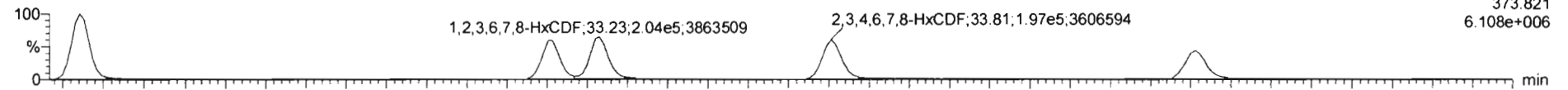
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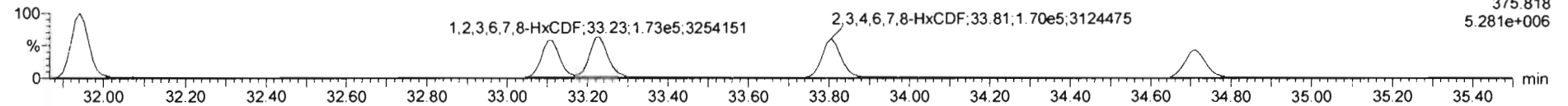
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1,2,3,4,7,8-HxCDF

200131R1_9

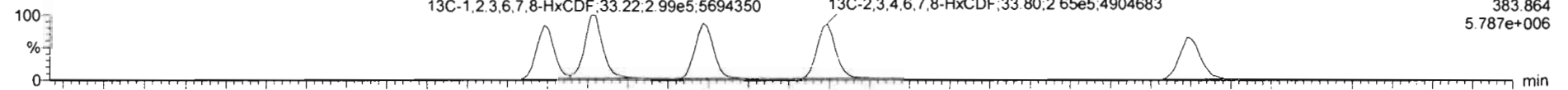


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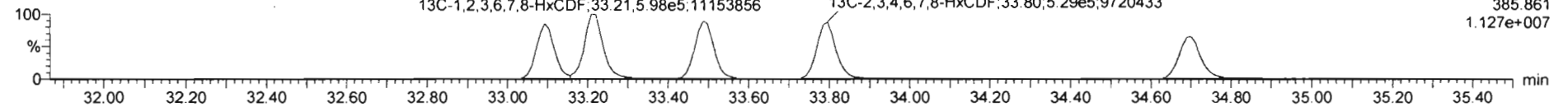


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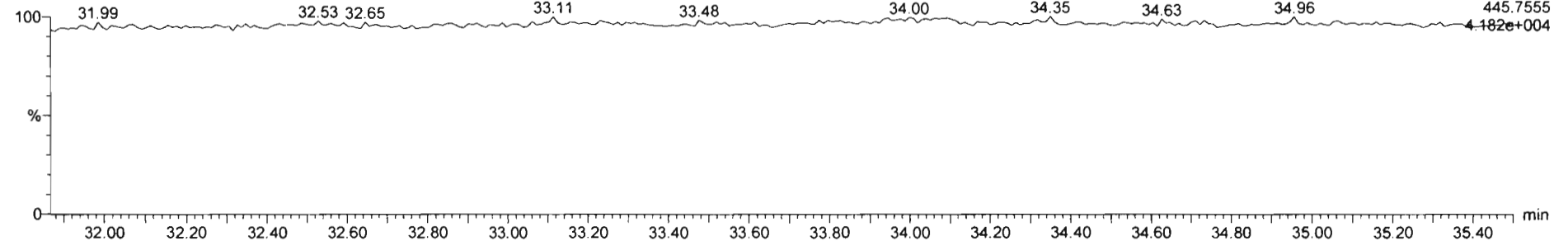


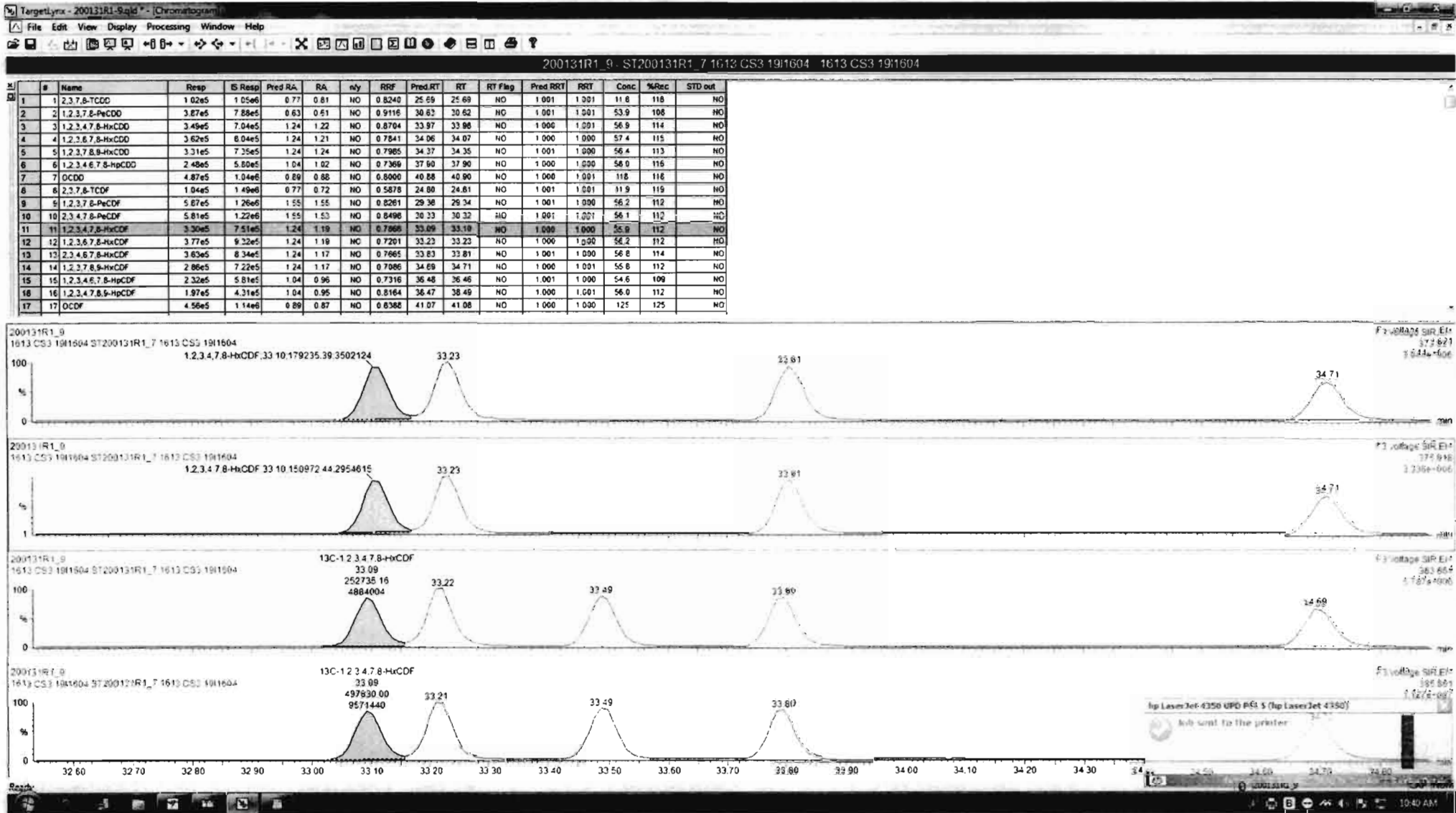
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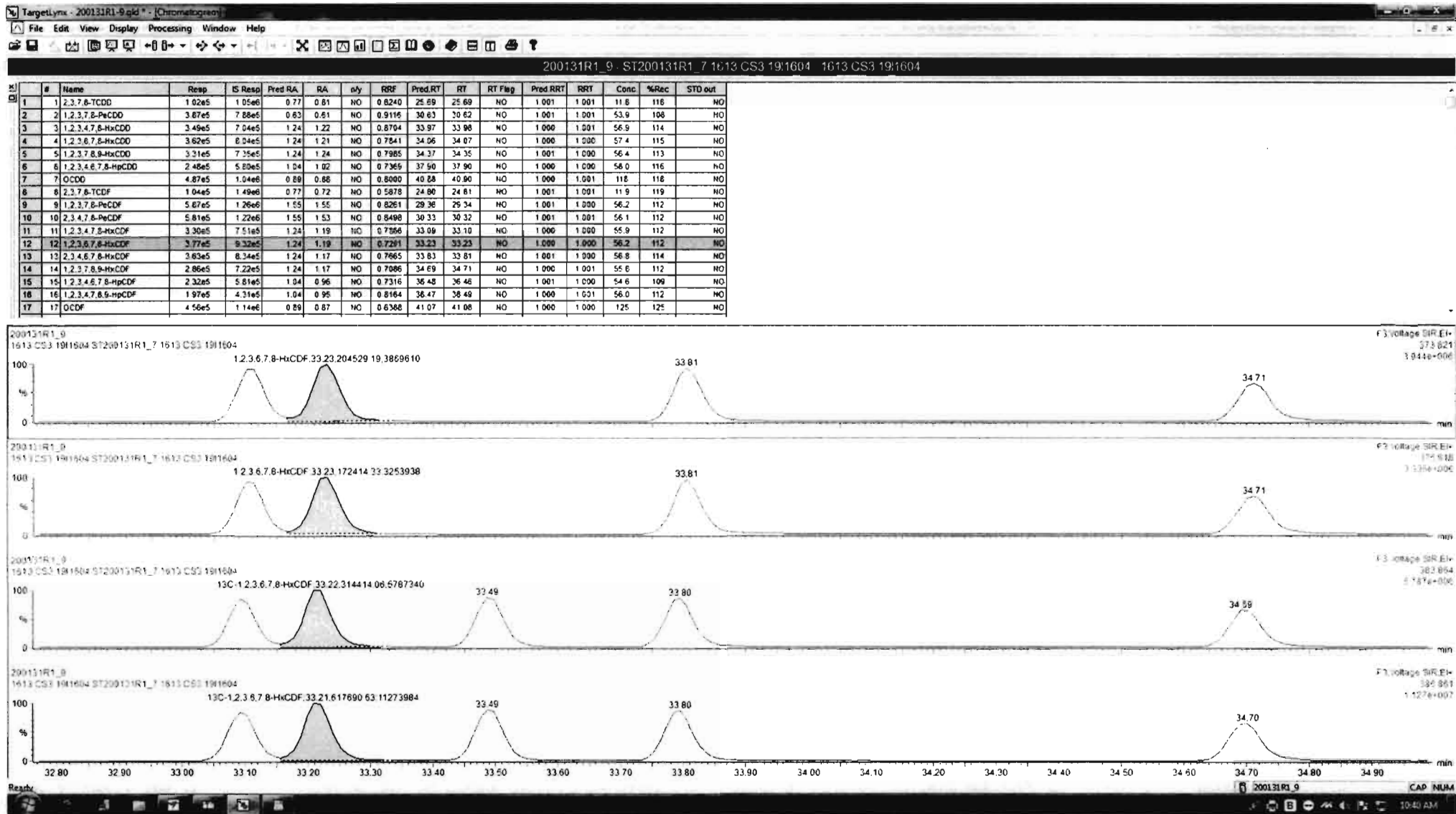


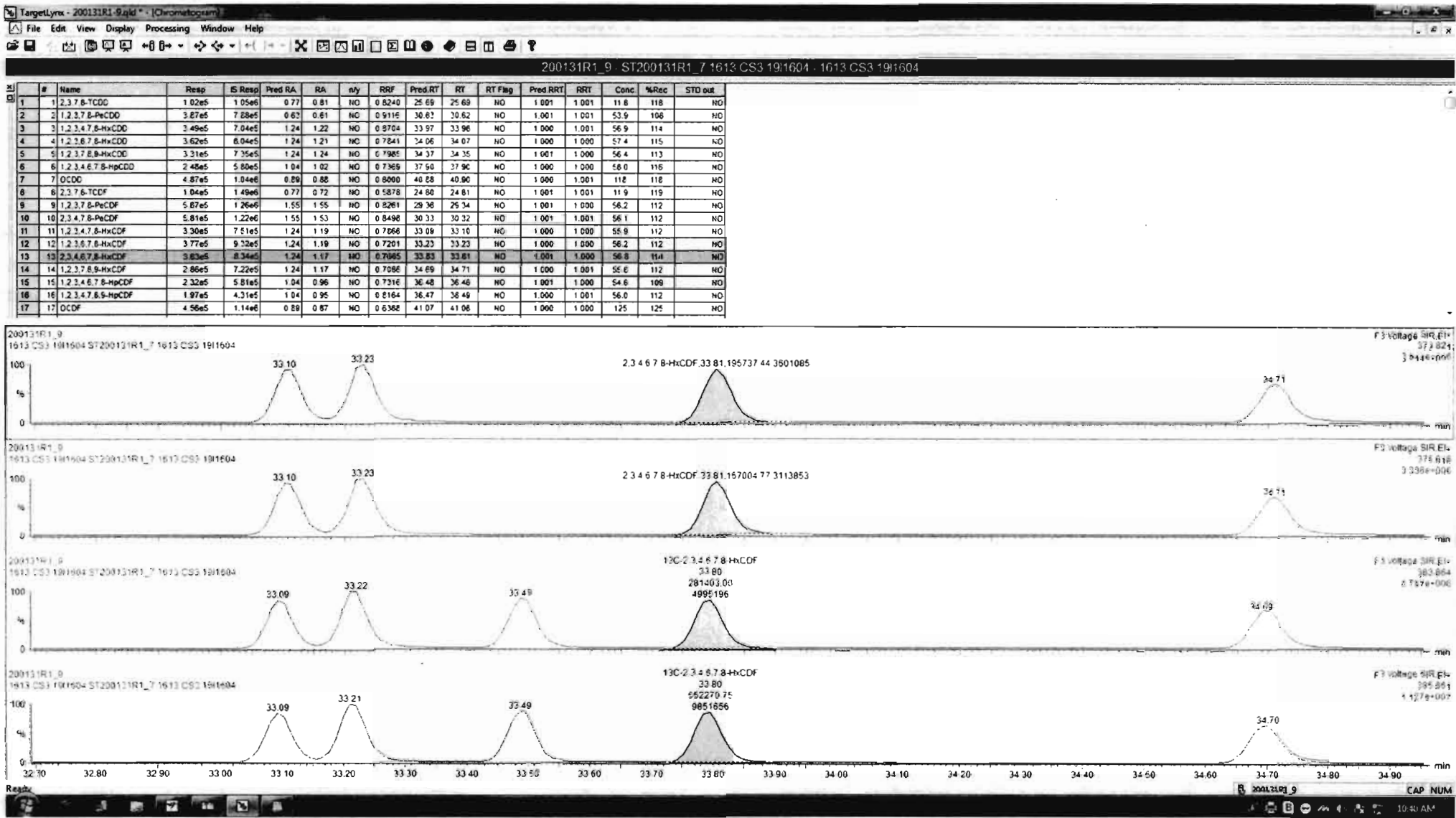
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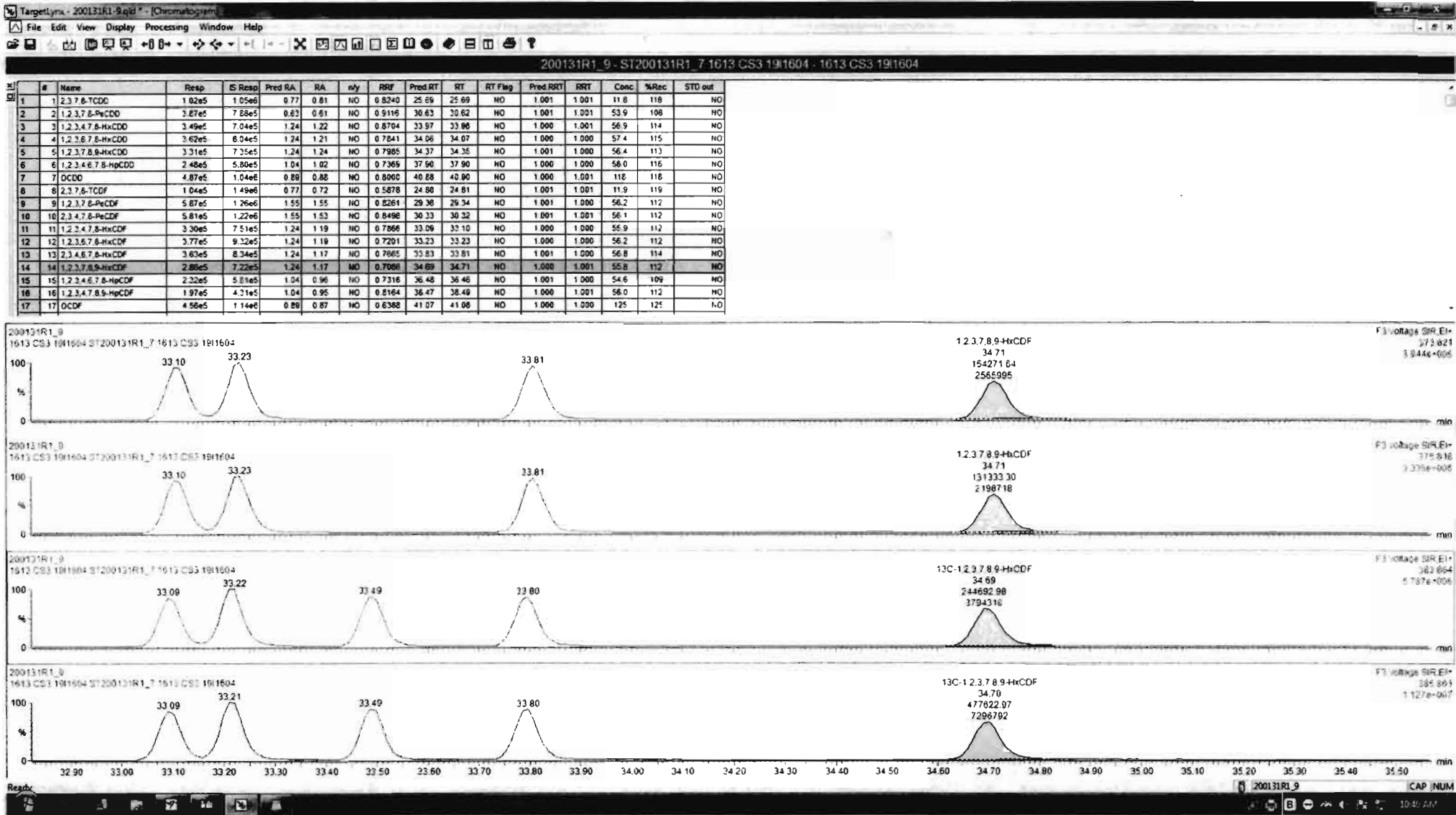
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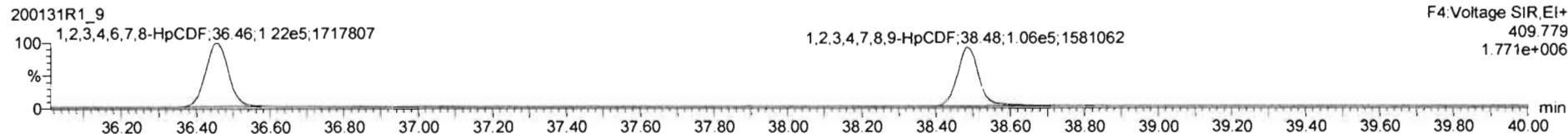
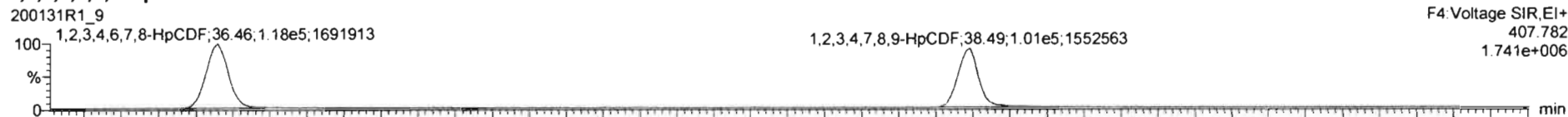


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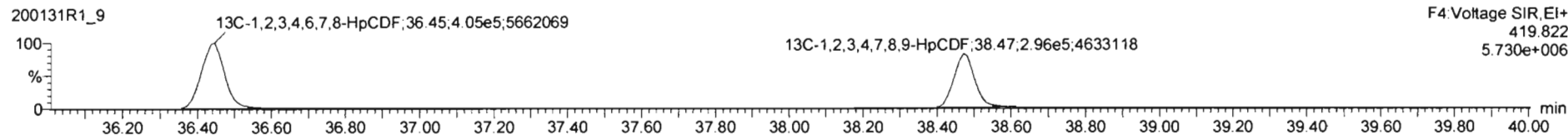
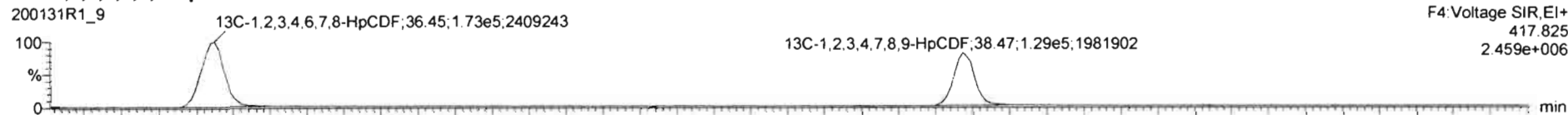
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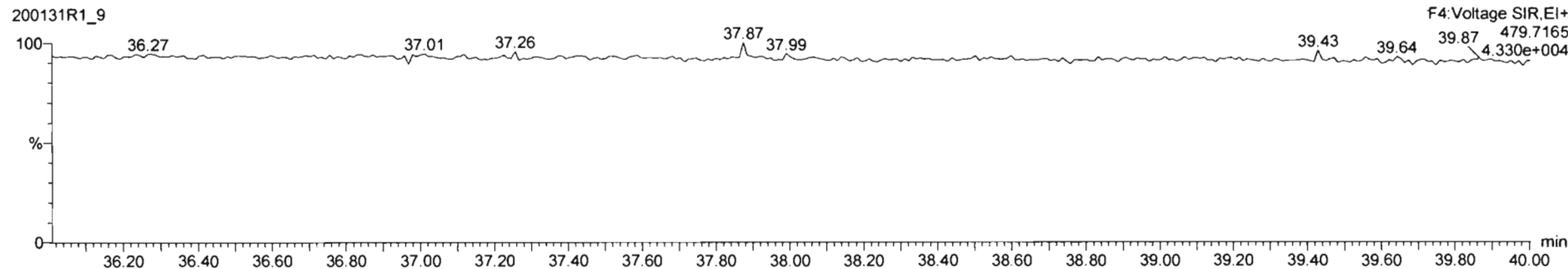
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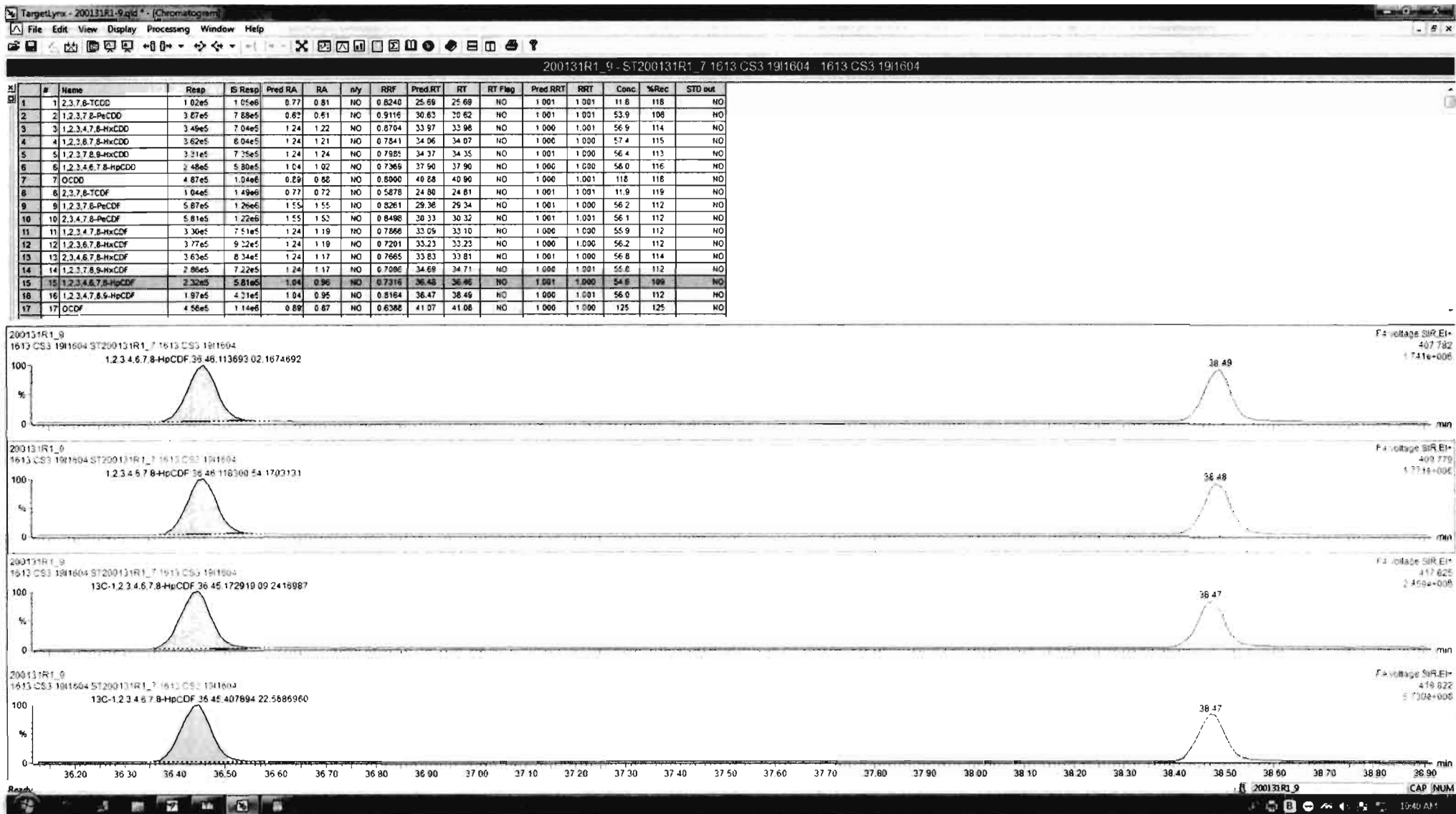


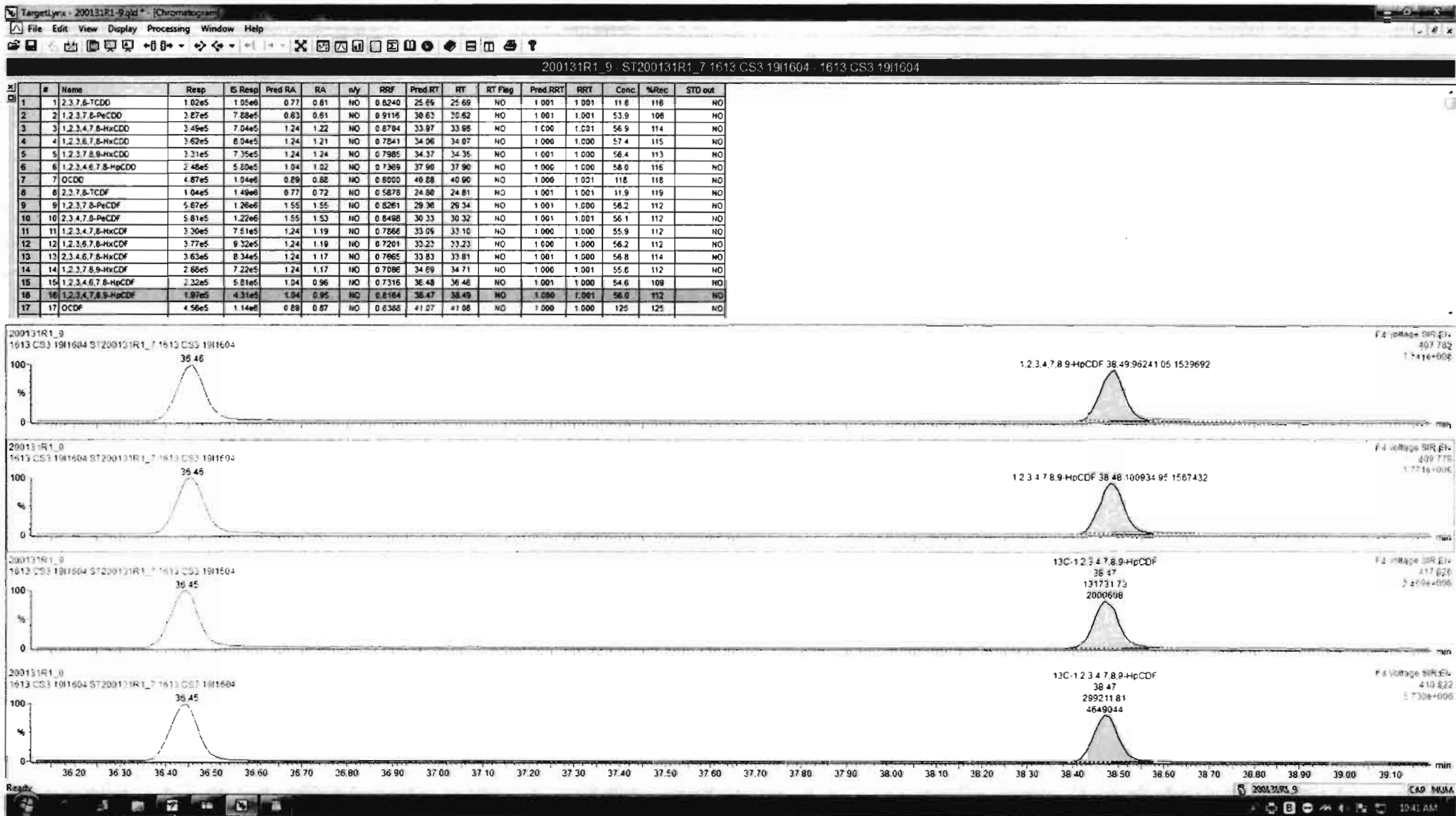
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DPE4



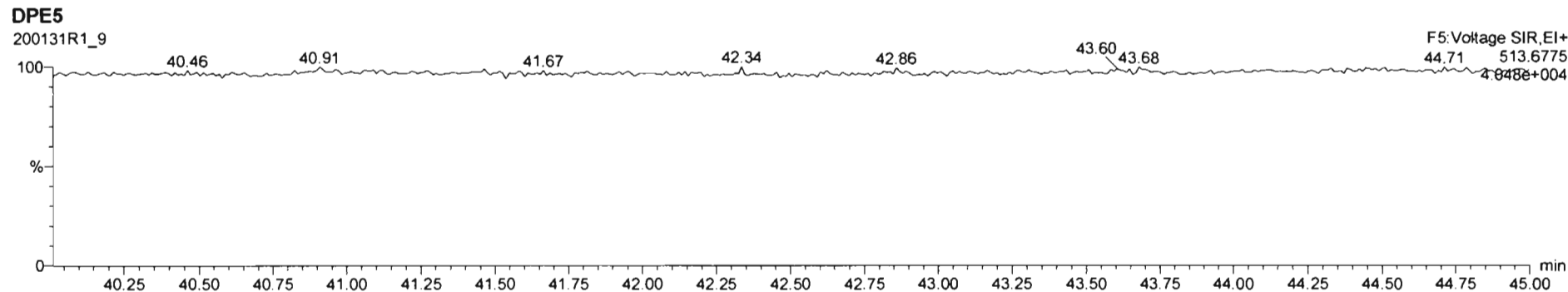
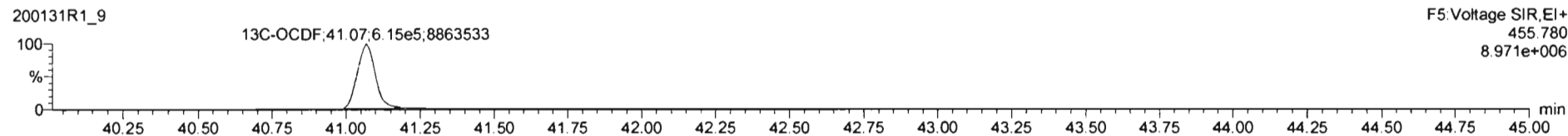
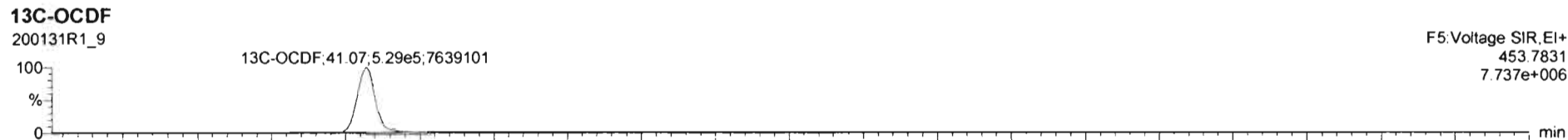
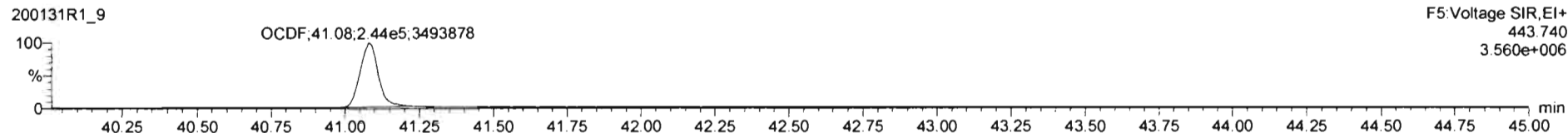
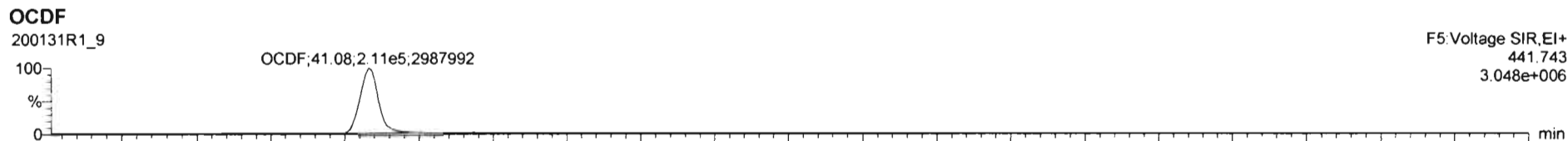




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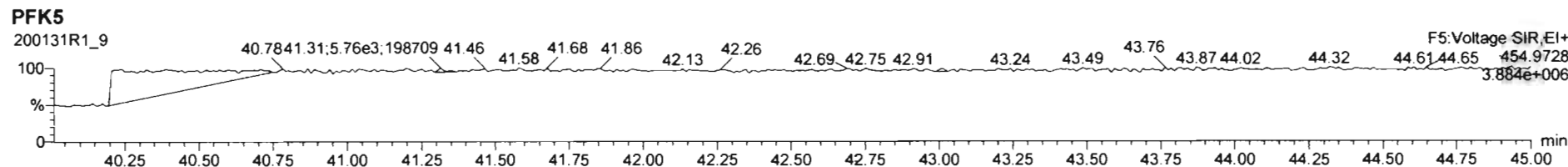
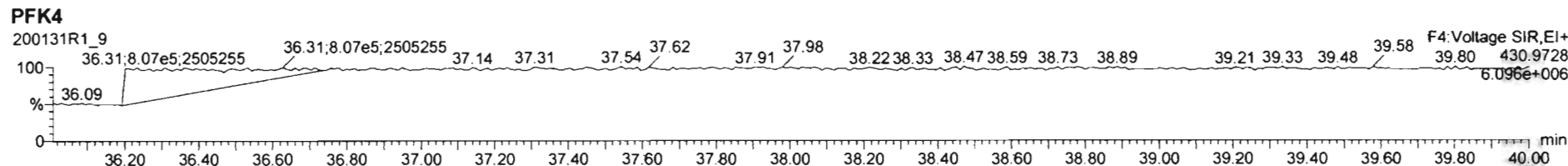
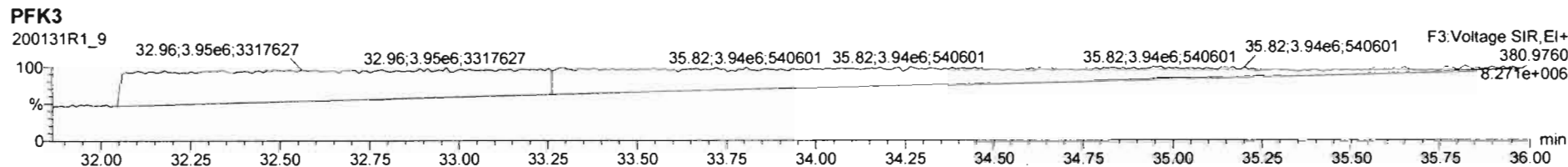
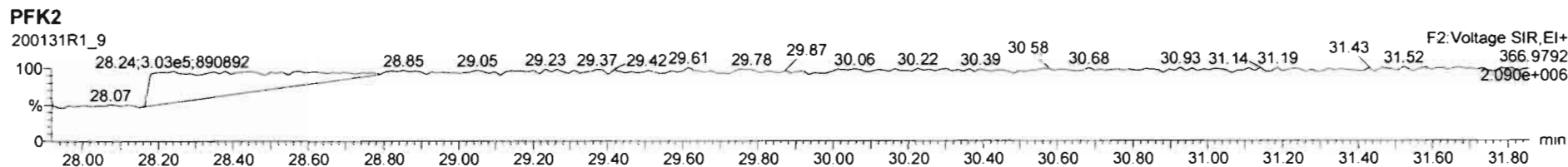
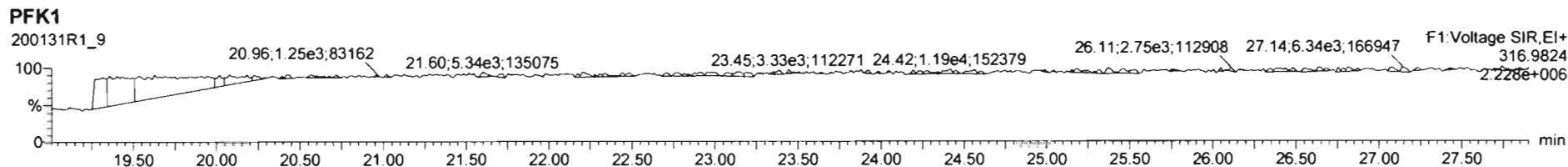
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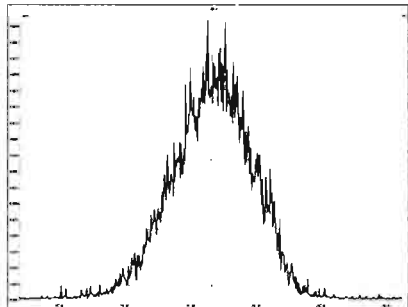
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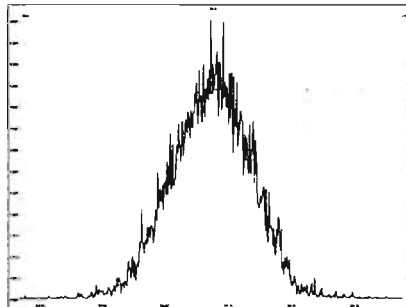


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

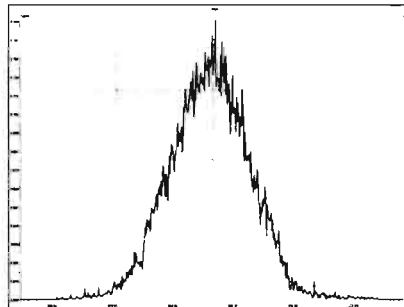
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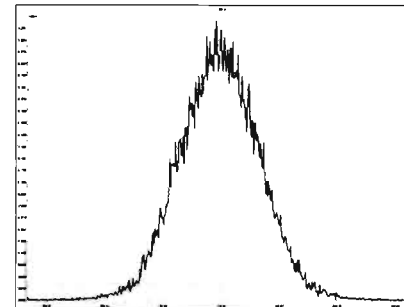
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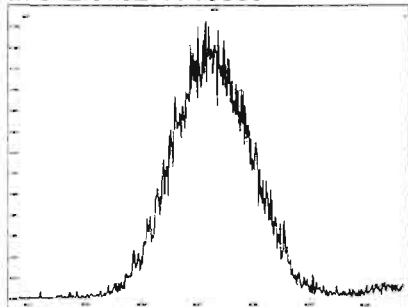
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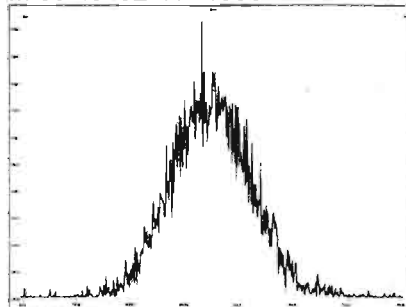
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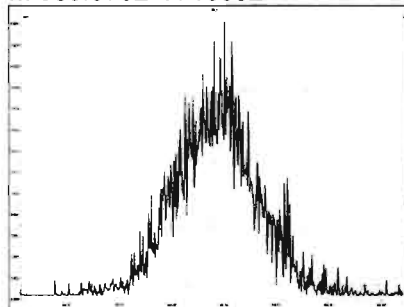
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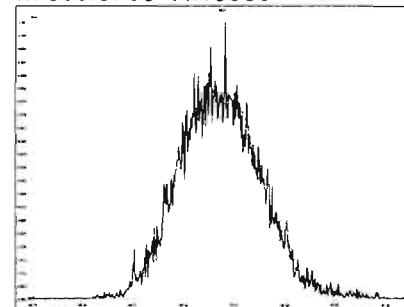
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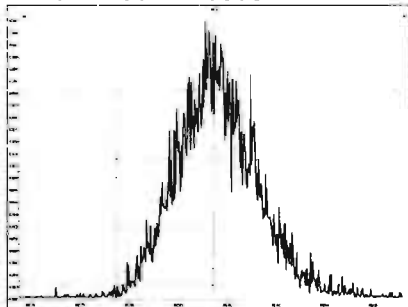
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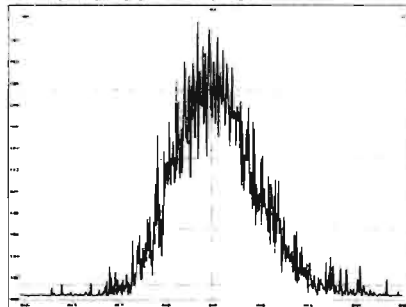
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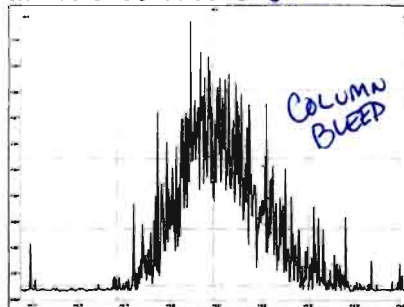
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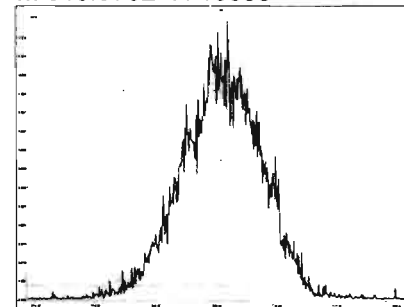
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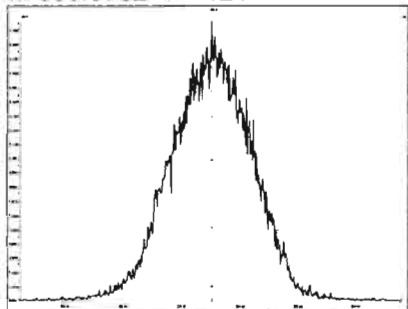


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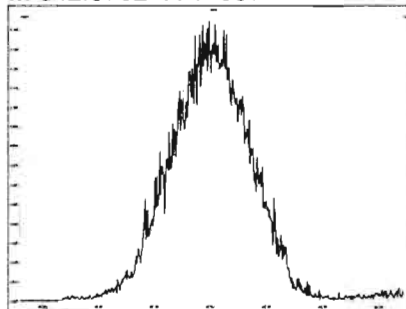


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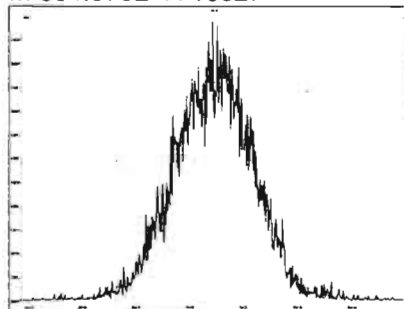
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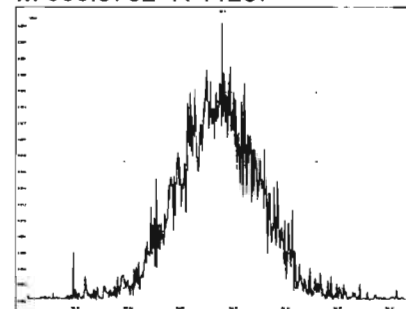
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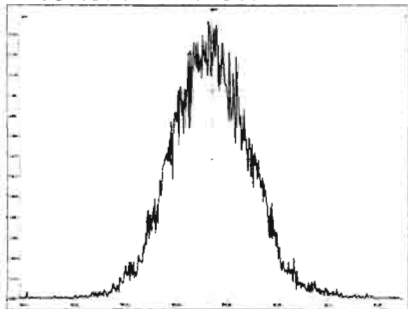
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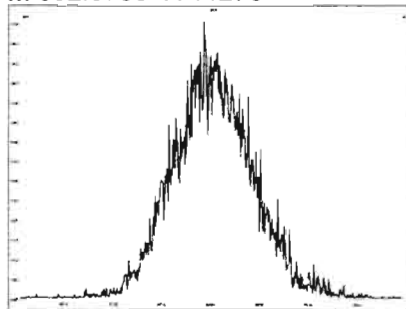
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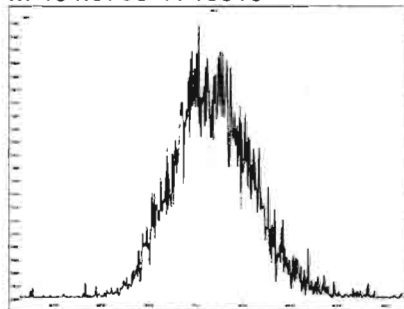
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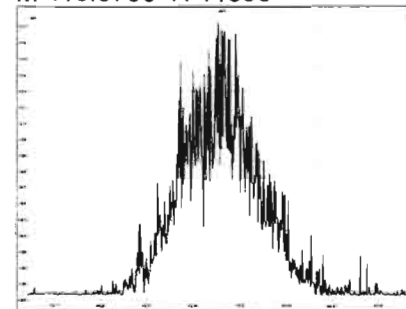
M 392.9760 R 11275



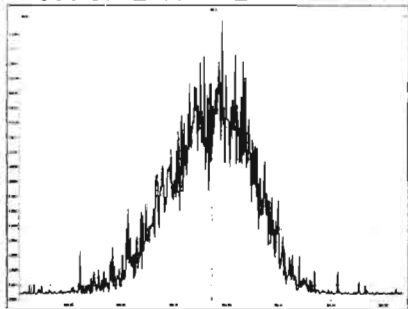
M 404.9760 R 10615



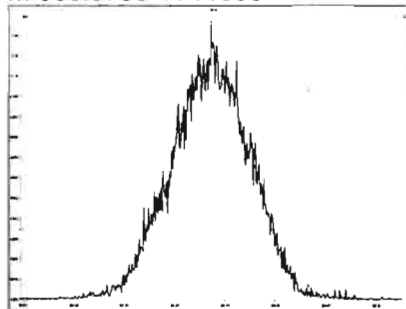
M 416.9760 R 11390



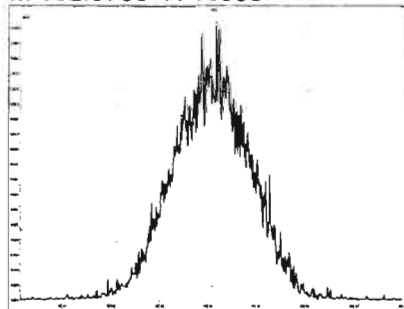
M 366.9792 R 10424



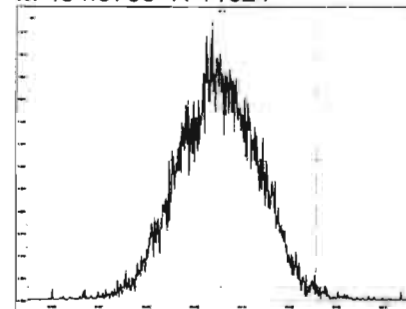
M 380.9760 R 11086



M 392.9760 R 10930

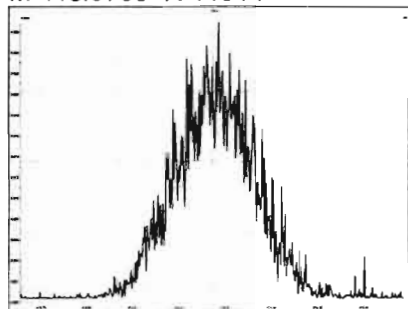


M 404.9760 R 11521

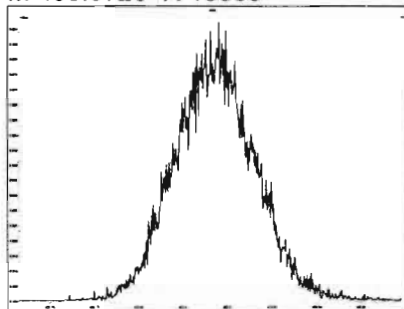


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

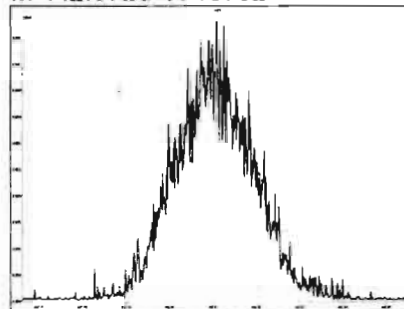
M 416.9760 R 11014



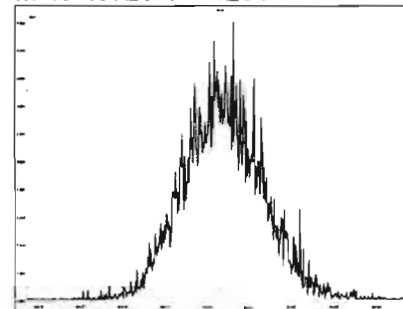
M 430.9728 R 10686



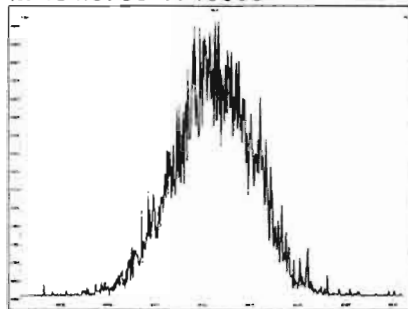
M 442.9728 R 10762



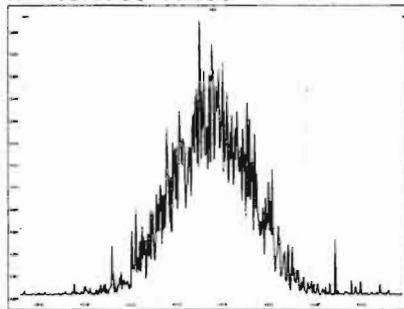
M 454.9728 R 11261



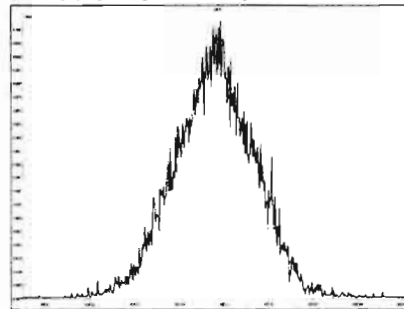
M 404.9760 R 10356



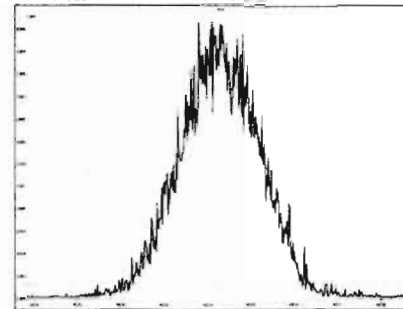
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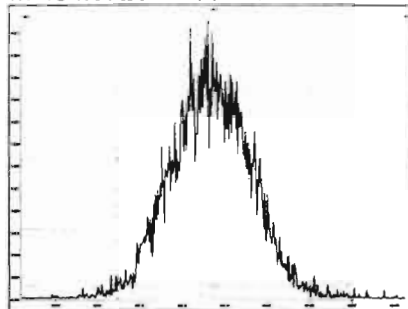
M 430.9728 R 10732



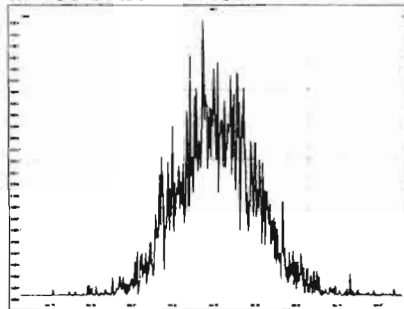
M 442.9728 R 11393



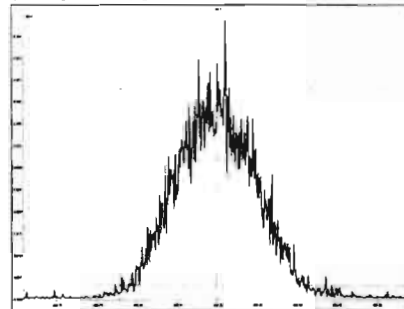
M 454.9728 R 11574



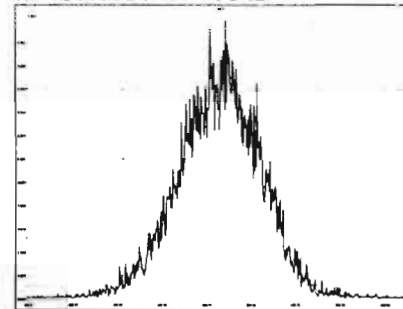
M 466.9728 R 11854



M 480.9696 R 11062

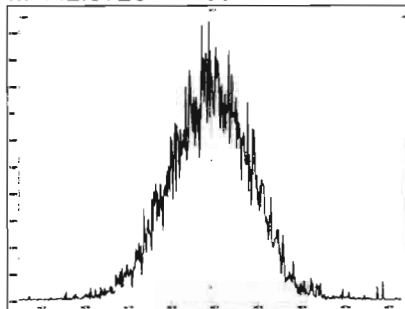


M 430.9728 R 10642

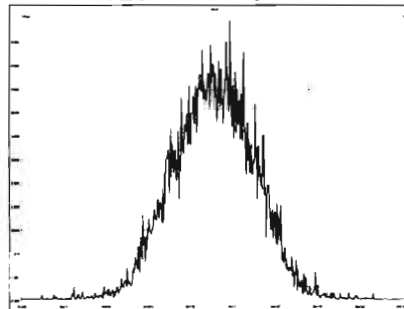


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

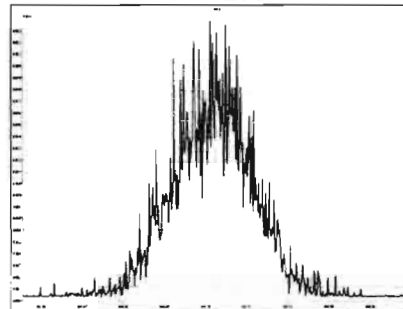
M 442.9728 R 10615



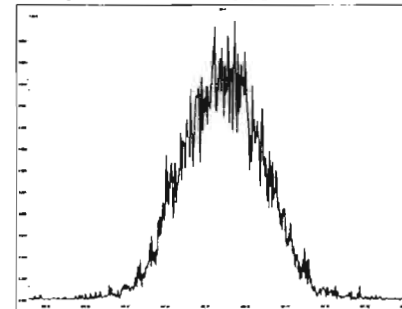
M 454.9728 R 10778



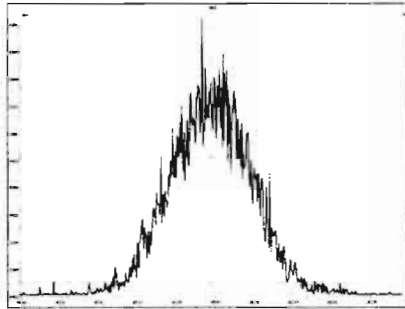
M 466.9728 R 11290



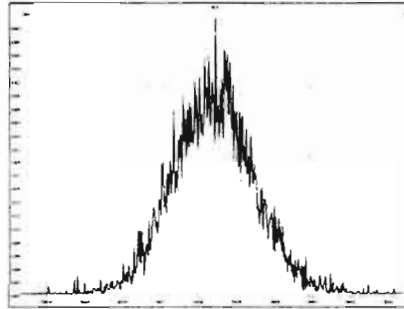
M 480.9696 R 10615



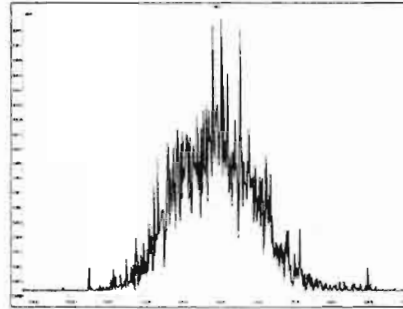
M 492.9696 R 10685



M 504.9696 R 10849



M 516.9697 R 11211



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

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DB 1/22/20

Method: U:\VG12.PRO\MethDB\1613rrt-1-15-20.mdb 21 Jan 2020 11:10:24
 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

C1 01/22/2020

Compound name: 2,3,7,8-TCDD
 Response Factor: 0.824003
 RRF SD: 0.106482, Relative SD: 12.9225
 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	200121R1_1	0.250	0.68	NO	25.85	1.000	3.58e3	1.96e6	0.222	-11.3	0.731	MM
2	200121R1_2	0.500	0.77	NO	25.85	1.001	7.18e3	1.99e6	0.437	-12.6	0.720	bb
3	200121R1_3	2.00	0.75	NO	25.89	1.001	3.33e4	2.18e6	1.85	-7.4	0.763	bb
4	200121R1_4	10.0	0.75	NO	25.85	1.001	1.39e5	1.68e6	10.0	0.3	0.827	db
5	200121R1_5	40.0	0.76	NO	25.87	1.001	8.97e5	2.41e6	45.3	13.1	0.932	bb
6	200121R1_6	300	0.77	NO	25.89	1.001	7.61e6	2.61e6	354	17.9	0.971	bb

Compound name: 1,2,3,7,8-PeCDD
 Response Factor: 0.911647
 RRF SD: 0.0797461, Relative SD: 8.74747
 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	200121R1_1	1.25	0.64	NO	30.76	1.000	1.49e4	1.48e6	1.10	-11.6	0.806	bb
2	200121R1_2	2.50	0.59	NO	30.74	1.000	3.07e4	1.46e6	2.31	-7.5	0.843	bb
3	200121R1_3	10.0	0.58	NO	30.76	1.000	1.42e5	1.60e6	9.73	-2.7	0.887	bb
4	200121R1_4	50.0	0.63	NO	30.76	1.000	5.59e5	1.19e6	51.5	3.0	0.939	bb
5	200121R1_5	200	0.62	NO	30.76	1.000	3.69e6	1.86e6	218	9.0	0.993	bb
6	200121R1_6	1500	0.63	NO	30.77	1.000	3.22e7	2.15e6	1650	9.8	1.00	bb

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

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

Response Factor: 0.870361
 RRF SD: 0.1132, Relative SD: 13.0061
 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	200121R1_1	1.25	1.23	NO	34.12	1.000	1.09e4	1.15e6	1.09	-12.5	0.762	bd
2	200121R1_2	2.50	1.22	NO	34.10	1.001	2.10e4	1.15e6	2.11	-15.7	0.734	bd
3	200121R1_3	10.0	1.20	NO	34.10	1.000	1.06e5	1.28e6	9.54	-4.6	0.830	bd
4	200121R1_4	50.0	1.24	NO	34.10	1.001	4.27e5	9.39e5	52.2	4.4	0.908	bd
5	200121R1_5	200	1.19	NO	34.10	1.000	2.99e6	1.51e6	228	13.8	0.990	bd
6	200121R1_6	1500	1.20	NO	34.12	1.000	2.69e7	1.80e6	1720	14.6	0.998	bd

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

Response Factor: 0.784064
 RRF SD: 0.0638384, Relative SD: 8.14199
 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	200121R1_1	1.25	1.14	NO	34.21	1.000	1.19e4	1.30e6	1.17	-6.8	0.731	db
2	200121R1_2	2.50	1.19	NO	34.20	1.000	2.26e4	1.28e6	2.24	-10.3	0.703	db
3	200121R1_3	10.0	1.20	NO	34.21	1.000	1.08e5	1.43e6	9.65	-3.5	0.756	db
4	200121R1_4	50.0	1.19	NO	34.21	1.001	4.29e5	1.07e6	51.4	2.8	0.806	db
5	200121R1_5	200	1.20	NO	34.21	1.001	3.00e6	1.76e6	217	8.7	0.852	db
6	200121R1_6	1500	1.20	NO	34.22	1.000	2.63e7	2.05e6	1640	9.1	0.856	db

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

Response Factor: 0.798497
 RRF SD: 0.0803566, Relative SD: 10.0635
 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	200121R1_1	1.25	1.17	NO	34.51	1.001	1.14e4	1.21e6	1.18	-5.6	0.754	bb
2	200121R1_2	2.50	1.15	NO	34.49	1.000	2.18e4	1.26e6	2.18	-13.0	0.695	bb

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200121R1_3	10.0	1.22	NO	34.50	1.001	1.06e5	1.43e6	9.33	-6.7	0.745	bb
4	200121R1_4	50.0	1.22	NO	34.49	1.001	4.28e5	1.04e6	51.3	2.6	0.820	db
5	200121R1_5	200	1.21	NO	34.49	1.000	2.97e6	1.68e6	222	10.8	0.885	bb
6	200121R1_6	1500	1.19	NO	34.50	1.000	2.63e7	1.96e6	1680	11.8	0.893	bb

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

Response Factor: 0.736928

RRF SD: 0.0903282, Relative SD: 12.2574

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	200121R1_1	1.25	0.96	NO	38.05	1.001	7.79e3	9.17e5	1.15	-7.8	0.679	bb
2	200121R1_2	2.50	1.05	NO	38.02	1.000	1.43e4	9.02e5	2.15	-13.8	0.635	bb
3	200121R1_3	10.0	1.00	NO	38.05	1.001	6.21e4	9.27e5	9.09	-9.1	0.670	bb
4	200121R1_4	50.0	0.99	NO	38.03	1.001	2.40e5	6.36e5	51.1	2.3	0.754	bb
5	200121R1_5	200	1.00	NO	38.03	1.001	1.97e6	1.19e6	225	12.6	0.830	bb
6	200121R1_6	1500	0.99	NO	38.05	1.000	1.77e7	1.38e6	1740	15.9	0.854	bb

Compound name: OCDD

Response Factor: 0.799993

RRF SD: 0.0791297, Relative SD: 9.8913

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	200121R1_1	2.50	0.86	NO	41.03	1.001	1.42e4	1.53e6	2.32	-7.3	0.742	bb
2	200121R1_2	5.00	0.86	NO	41.01	1.001	2.69e4	1.51e6	4.45	-11.0	0.712	bd
3	200121R1_3	20.0	0.86	NO	41.02	1.000	1.12e5	1.50e6	18.7	-6.3	0.750	bb
4	200121R1_4	100	0.86	NO	41.01	1.000	3.71e5	9.18e5	101	1.0	0.808	bb
5	200121R1_5	400	0.85	NO	41.02	1.000	3.62e6	2.03e6	446	11.6	0.893	bb
6	200121R1_6	3000	0.86	NO	41.03	1.000	3.66e7	2.72e6	3360	11.9	0.895	bb

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

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

Response Factor: 0.587758
 RRF SD: 0.0889725, Relative SD: 15.1376
 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	200121R1_1	0.250	0.73	NO	25.00	1.001	3.29e3	2.47e6	0.226	-9.5	0.532	bb
2	200121R1_2	0.500	0.68	NO	24.99	1.001	6.15e3	2.53e6	0.414	-17.2	0.487	bb
3	200121R1_3	2.00	0.69	NO	25.02	1.001	2.93e4	2.77e6	1.80	-10.2	0.528	bb
4	200121R1_4	10.0	0.69	NO	24.99	1.001	1.29e5	2.15e6	10.2	1.5	0.597	bb
5	200121R1_5	40.0	0.71	NO	24.99	1.001	8.09e5	3.02e6	45.6	14.0	0.670	bb
6	200121R1_6	300	0.72	NO	25.02	1.001	6.94e6	3.24e6	364	21.4	0.714	bb

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

Response Factor: 0.826078
 RRF SD: 0.0786342, Relative SD: 9.51897
 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	200121R1_1	1.25	1.56	NO	29.49	1.001	2.06e4	2.18e6	1.14	-8.7	0.754	bb
2	200121R1_2	2.50	1.47	NO	29.48	1.001	3.89e4	2.14e6	2.20	-12.0	0.727	bb
3	200121R1_3	10.0	1.55	NO	29.49	1.001	1.94e5	2.43e6	9.65	-3.5	0.797	bb
4	200121R1_4	50.0	1.52	NO	29.48	1.001	7.65e5	1.78e6	51.9	3.8	0.857	bb
5	200121R1_5	200	1.50	NO	29.48	1.001	4.89e6	2.70e6	219	9.6	0.906	bb
6	200121R1_6	1500	1.50	NO	29.49	1.001	4.35e7	3.17e6	1660	10.7	0.915	bb

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

Response Factor: 0.84982
 RRF SD: 0.0827911, Relative SD: 9.74219
 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	200121R1_1	1.25	1.55	NO	30.47	1.001	2.06e4	2.15e6	1.13	-9.7	0.768	bb
2	200121R1_2	2.50	1.51	NO	30.45	1.000	3.96e4	2.12e6	2.19	-12.3	0.746	bb

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200121R1_3	10.0	1.56	NO	30.45	1.000	1.98e5	2.38e6	9.81	-1.9	0.834	bb
4	200121R1_4	50.0	1.51	NO	30.45	1.001	7.59e5	1.74e6	51.5	2.9	0.875	bb
5	200121R1_5	200	1.49	NO	30.45	1.001	4.95e6	2.65e6	220	10.0	0.934	bb
6	200121R1_6	1500	1.50	NO	30.47	1.001	4.46e7	3.15e6	1660	10.9	0.943	bb

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

Response Factor: 0.786631

RRF SD: 0.109057, Relative SD: 13.8638

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	200121R1_1	1.25	1.15	NO	33.24	1.000	9.08e3	1.07e6	1.08	-13.6	0.680	bd
2	200121R1_2	2.50	1.11	NO	33.23	1.001	1.74e4	1.06e6	2.09	-16.3	0.659	bd
3	200121R1_3	10.0	1.18	NO	33.24	1.001	8.87e4	1.19e6	9.50	-5.0	0.747	bd
4	200121R1_4	50.0	1.17	NO	33.23	1.000	3.55e5	8.64e5	52.2	4.4	0.821	bd
5	200121R1_5	200	1.16	NO	33.23	1.000	2.46e6	1.37e6	229	14.4	0.900	bd
6	200121R1_6	1500	1.14	NO	33.24	1.000	2.22e7	1.62e6	1740	16.1	0.914	bd

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

Response Factor: 0.720113

RRF SD: 0.0803142, Relative SD: 11.153

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	200121R1_1	1.25	1.11	NO	33.36	1.000	1.06e4	1.29e6	1.14	-9.1	0.655	db
2	200121R1_2	2.50	1.20	NO	33.35	1.000	1.95e4	1.27e6	2.13	-14.8	0.614	db
3	200121R1_3	10.0	1.17	NO	33.36	1.000	9.98e4	1.45e6	9.57	-4.3	0.689	db
4	200121R1_4	50.0	1.15	NO	33.35	1.000	3.92e5	1.04e6	52.3	4.6	0.753	db
5	200121R1_5	200	1.15	NO	33.36	1.001	2.68e6	1.68e6	221	10.7	0.797	db
6	200121R1_6	1500	1.15	NO	33.37	1.001	2.42e7	1.98e6	1690	12.9	0.813	db

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

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

Response Factor: 0.766474
 RRF SD: 0.103369, Relative SD: 13.4863
 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	200121R1_1	1.25	1.19	NO	33.94	1.000	9.43e3	1.16e6	1.06	-15.1	0.651	bb
2	200121R1_2	2.50	1.14	NO	33.93	1.001	1.84e4	1.14e6	2.11	-15.4	0.648	bb
3	200121R1_3	10.0	1.17	NO	33.94	1.001	9.67e4	1.31e6	9.66	-3.4	0.740	bb
4	200121R1_4	50.0	1.16	NO	33.93	1.001	3.84e5	9.50e5	52.8	5.6	0.809	bb
5	200121R1_5	200	1.15	NO	33.93	1.000	2.65e6	1.51e6	228	14.2	0.875	bb
6	200121R1_6	1500	1.14	NO	33.94	1.000	2.38e7	1.82e6	1710	14.2	0.875	bb

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

Response Factor: 0.708637
 RRF SD: 0.0936, Relative SD: 13.2084
 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	200121R1_1	1.25	1.15	NO	34.86	1.001	7.60e3	9.61e5	1.12	-10.8	0.632	bb
2	200121R1_2	2.50	1.14	NO	34.85	1.001	1.48e4	9.89e5	2.12	-15.3	0.600	bb
3	200121R1_3	10.0	1.21	NO	34.85	1.000	7.28e4	1.12e6	9.19	-8.1	0.651	bb
4	200121R1_4	50.0	1.17	NO	34.85	1.001	3.08e5	8.31e5	52.3	4.6	0.741	bb
5	200121R1_5	200	1.15	NO	34.85	1.000	2.14e6	1.33e6	228	14.0	0.808	bb
6	200121R1_6	1500	1.16	NO	34.86	1.000	1.93e7	1.57e6	1730	15.5	0.819	bb

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

Response Factor: 0.731638
 RRF SD: 0.111983, Relative SD: 15.3058
 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	200121R1_1	1.25	0.90	NO	36.61	1.000	5.75e3	7.08e5	1.11	-11.3	0.649	MM
2	200121R1_2	2.50	1.01	NO	36.61	1.001	1.09e4	7.21e5	2.06	-17.5	0.604	bb

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200121R1_3	10.0	0.96	NO	36.62	1.001	5.24e4	8.04e5	8.91	-10.9	0.652	bb
4	200121R1_4	50.0	0.98	NO	36.60	1.000	2.23e5	5.77e5	52.7	5.4	0.771	bb
5	200121R1_5	200	0.96	NO	36.61	1.000	1.62e6	9.59e5	231	15.4	0.844	bb
6	200121R1_6	1500	0.97	NO	36.62	1.000	1.50e7	1.15e6	1780	18.8	0.869	bb

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

Response Factor: 0.816406

RRF SD: 0.124425, Relative SD: 15.2406

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	200121R1_1	1.25	1.08	NO	38.61	1.000	4.66e3	5.25e5	1.09	-13.0	0.710	bb
2	200121R1_2	2.50	0.93	NO	38.60	1.000	9.58e3	5.53e5	2.12	-15.1	0.693	bb
3	200121R1_3	10.0	0.93	NO	38.61	1.000	4.30e4	5.88e5	8.96	-10.4	0.731	bb
4	200121R1_4	50.0	0.95	NO	38.60	1.000	1.84e5	4.40e5	51.2	2.5	0.837	bb
5	200121R1_5	200	0.96	NO	38.61	1.001	1.37e6	7.10e5	236	18.1	0.964	bb
6	200121R1_6	1500	0.97	NO	38.62	1.000	1.35e7	9.33e5	1770	17.9	0.963	bb

Compound name: OCDF

Response Factor: 0.638789

RRF SD: 0.0810198, Relative SD: 12.6833

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	200121R1_1	2.50	0.86	NO	41.22	1.000	1.03e4	1.48e6	2.17	-13.1	0.555	bb
2	200121R1_2	5.00	0.86	NO	41.20	1.000	2.07e4	1.50e6	4.33	-13.4	0.553	bb
3	200121R1_3	20.0	0.80	NO	41.21	1.000	8.44e4	1.41e6	18.8	-6.2	0.599	bb
4	200121R1_4	100	0.84	NO	41.20	1.000	2.96e5	8.88e5	104	4.5	0.667	bb
5	200121R1_5	400	0.84	NO	41.21	1.000	2.87e6	1.98e6	455	13.6	0.726	bb
6	200121R1_6	3000	0.84	NO	41.23	1.000	2.97e7	2.70e6	3430	14.5	0.731	bb

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

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

Response Factor: 1.11572

RRF SD: 0.045003, Relative SD: 4.03353

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	200121R1_1	100	0.78	NO	25.85	1.026	1.96e6	1.80e6	97.8	-2.2	1.09	bb
2	200121R1_2	100	0.79	NO	25.84	1.025	1.99e6	1.83e6	97.7	-2.3	1.09	bb
3	200121R1_3	100	0.78	NO	25.85	1.025	2.18e6	2.01e6	97.2	-2.8	1.08	bb
4	200121R1_4	100	0.79	NO	25.84	1.026	1.68e6	1.42e6	106	5.6	1.18	bb
5	200121R1_5	100	0.78	NO	25.84	1.025	2.41e6	2.23e6	96.9	-3.1	1.08	bb
6	200121R1_6	100	0.79	NO	25.86	1.025	2.61e6	2.23e6	105	4.7	1.17	bb

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

Response Factor: 0.841144

RRF SD: 0.0616639, Relative SD: 7.33095

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	200121R1_1	100	0.64	NO	30.74	1.219	1.48e6	1.80e6	97.7	-2.3	0.822	bb
2	200121R1_2	100	0.63	NO	30.74	1.219	1.46e6	1.83e6	94.6	-5.4	0.795	bb
3	200121R1_3	100	0.63	NO	30.74	1.219	1.60e6	2.01e6	94.6	-5.4	0.796	bb
4	200121R1_4	100	0.65	NO	30.74	1.220	1.19e6	1.42e6	99.6	-0.4	0.838	bb
5	200121R1_5	100	0.63	NO	30.74	1.219	1.86e6	2.23e6	99.2	-0.8	0.834	bb
6	200121R1_6	100	0.64	NO	30.76	1.219	2.15e6	2.23e6	114	14.3	0.961	bb

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

Response Factor: 0.937941

RRF SD: 0.0670362, Relative SD: 7.14717

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	200121R1_1	100	1.26	NO	34.10	1.014	1.15e6	1.28e6	95.1	-4.9	0.892	bd
2	200121R1_2	100	1.26	NO	34.08	1.014	1.15e6	1.28e6	95.8	-4.2	0.898	bd

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200121R1_3	100	1.26	NO	34.09	1.014	1.28e6	1.44e6	94.6	-5.4	0.888	bd
4	200121R1_4	100	1.26	NO	34.08	1.014	9.39e5	9.71e5	103	3.1	0.967	bd
5	200121R1_5	100	1.24	NO	34.09	1.014	1.51e6	1.64e6	98.2	-1.8	0.921	bd
6	200121R1_6	100	1.25	NO	34.10	1.014	1.80e6	1.69e6	113	13.1	1.06	bd

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

Response Factor: 1.06543

RRF SD: 0.0819846, Relative SD: 7.69496

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	200121R1_1	100	1.24	NO	34.20	1.017	1.30e6	1.28e6	94.9	-5.1	1.01	db
2	200121R1_2	100	1.24	NO	34.19	1.017	1.28e6	1.28e6	94.4	-5.6	1.01	db
3	200121R1_3	100	1.24	NO	34.20	1.017	1.43e6	1.44e6	93.4	-6.6	0.995	db
4	200121R1_4	100	1.25	NO	34.19	1.017	1.07e6	9.71e5	103	3.0	1.10	db
5	200121R1_5	100	1.24	NO	34.19	1.017	1.76e6	1.64e6	101	0.7	1.07	db
6	200121R1_6	100	1.25	NO	34.21	1.017	2.05e6	1.69e6	114	13.7	1.21	db

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

Response Factor: 1.03027

RRF SD: 0.0777089, Relative SD: 7.54257

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	200121R1_1	100	1.23	NO	34.48	1.025	1.21e6	1.28e6	91.7	-8.3	0.945	bb
2	200121R1_2	100	1.24	NO	34.48	1.026	1.26e6	1.28e6	95.6	-4.4	0.985	bb
3	200121R1_3	100	1.22	NO	34.48	1.025	1.43e6	1.44e6	96.2	-3.8	0.991	bb
4	200121R1_4	100	1.22	NO	34.47	1.025	1.04e6	9.71e5	104	4.4	1.08	bb
5	200121R1_5	100	1.23	NO	34.48	1.026	1.68e6	1.64e6	99.4	-0.6	1.02	bb
6	200121R1_6	100	1.23	NO	34.49	1.026	1.96e6	1.69e6	113	12.7	1.16	bb

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

Response Factor: 0.709925

RRF SD: 0.0610429, Relative SD: 8.5985

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	200121R1_1	100	1.04	NO	38.02	1.131	9.17e5	1.28e6	101	0.6	0.714	bb
2	200121R1_2	100	1.02	NO	38.01	1.131	9.02e5	1.28e6	99.4	-0.6	0.706	bb
3	200121R1_3	100	1.03	NO	38.02	1.131	9.27e5	1.44e6	90.8	-9.2	0.645	bb
4	200121R1_4	100	1.00	NO	38.01	1.131	6.36e5	9.71e5	92.2	-7.8	0.654	bb
5	200121R1_5	100	1.03	NO	38.01	1.131	1.19e6	1.64e6	102	2.2	0.726	bb
6	200121R1_6	100	1.02	NO	38.03	1.131	1.38e6	1.69e6	115	14.8	0.815	bb

Compound name: 13C-OCDD

Response Factor: 0.600957

RRF SD: 0.113803, Relative SD: 18.9369

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	200121R1_1	200	0.88	NO	41.01	1.220	1.53e6	1.28e6	198	-0.9	0.596	bb
2	200121R1_2	200	0.88	NO	40.98	1.219	1.51e6	1.28e6	197	-1.4	0.592	bb
3	200121R1_3	200	0.88	NO	41.01	1.220	1.50e6	1.44e6	174	-13.2	0.521	bb
4	200121R1_4	200	0.89	NO	41.00	1.220	9.18e5	9.71e5	157	-21.3	0.473	bb
5	200121R1_5	200	0.88	NO	41.01	1.220	2.03e6	1.64e6	206	3.0	0.619	bb
6	200121R1_6	200	0.88	NO	41.03	1.220	2.72e6	1.69e6	268	33.9	0.805	bb

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

Response Factor: 1.03665

RRF SD: 0.0391627, Relative SD: 3.7778

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	200121R1_1	100	0.74	NO	24.97	0.991	2.47e6	2.48e6	96.4	-3.6	0.999	bb
2	200121R1_2	100	0.73	NO	24.97	0.991	2.53e6	2.52e6	96.8	-3.2	1.00	bb

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200121R1_3	100	0.74	NO	24.99	0.991	2.77e6	2.71e6	98.6	-1.4	1.02	bb
4	200121R1_4	100	0.73	NO	24.96	0.990	2.15e6	1.99e6	105	4.6	1.08	bb
5	200121R1_5	100	0.73	NO	24.97	0.991	3.02e6	2.95e6	98.8	-1.2	1.02	bb
6	200121R1_6	100	0.73	NO	24.99	0.991	3.24e6	2.98e6	105	4.9	1.09	bb

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

Response Factor: 0.916847

RRF SD: 0.0754197, Relative SD: 8.22599

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	200121R1_1	100	1.55	NO	29.48	1.169	2.18e6	2.48e6	96.2	-3.8	0.882	bb
2	200121R1_2	100	1.54	NO	29.46	1.169	2.14e6	2.52e6	92.5	-7.5	0.848	bb
3	200121R1_3	100	1.55	NO	29.48	1.169	2.43e6	2.71e6	97.6	-2.4	0.895	bb
4	200121R1_4	100	1.55	NO	29.46	1.169	1.78e6	1.99e6	97.9	-2.1	0.898	bb
5	200121R1_5	100	1.53	NO	29.46	1.169	2.70e6	2.95e6	99.7	-0.3	0.914	bb
6	200121R1_6	100	1.54	NO	29.48	1.169	3.17e6	2.98e6	116	16.0	1.06	bb

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

Response Factor: 0.902658

RRF SD: 0.0778583, Relative SD: 8.62544

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	200121R1_1	100	1.55	NO	30.44	1.207	2.15e6	2.48e6	96.0	-4.0	0.867	bb
2	200121R1_2	100	1.55	NO	30.44	1.207	2.12e6	2.52e6	93.4	-6.6	0.843	bb
3	200121R1_3	100	1.57	NO	30.45	1.207	2.38e6	2.71e6	97.1	-2.9	0.877	bb
4	200121R1_4	100	1.53	NO	30.44	1.208	1.74e6	1.99e6	96.8	-3.2	0.874	bb
5	200121R1_5	100	1.55	NO	30.44	1.207	2.65e6	2.95e6	99.5	-0.5	0.898	bb
6	200121R1_6	100	1.54	NO	30.45	1.207	3.15e6	2.98e6	117	17.1	1.06	bb

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

Response Factor: 0.861328

RRF SD: 0.0533731, Relative SD: 6.1966

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	200121R1_1	100	0.49	NO	33.23	0.988	1.07e6	1.28e6	96.7	-3.3	0.833	bd
2	200121R1_2	100	0.49	NO	33.21	0.988	1.06e6	1.28e6	96.0	-4.0	0.826	bd
3	200121R1_3	100	0.49	NO	33.22	0.988	1.19e6	1.44e6	95.8	-4.2	0.825	bd
4	200121R1_4	100	0.48	NO	33.22	0.988	8.64e5	9.71e5	103	3.3	0.890	bd
5	200121R1_5	100	0.49	NO	33.22	0.988	1.37e6	1.64e6	97.0	-3.0	0.835	bd
6	200121R1_6	100	0.49	NO	33.23	0.988	1.62e6	1.69e6	111	11.3	0.958	bd

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

Response Factor: 1.04669

RRF SD: 0.067318, Relative SD: 6.43153

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	200121R1_1	100	0.49	NO	33.35	0.992	1.29e6	1.28e6	96.3	-3.7	1.01	db
2	200121R1_2	100	0.49	NO	33.34	0.992	1.27e6	1.28e6	95.1	-4.9	0.996	db
3	200121R1_3	100	0.49	NO	33.35	0.992	1.45e6	1.44e6	96.2	-3.8	1.01	db
4	200121R1_4	100	0.49	NO	33.34	0.992	1.04e6	9.71e5	102	2.4	1.07	db
5	200121R1_5	100	0.49	NO	33.34	0.992	1.68e6	1.64e6	97.9	-2.1	1.02	db
6	200121R1_6	100	0.50	NO	33.35	0.992	1.98e6	1.69e6	112	12.0	1.17	db

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

Response Factor: 0.945665

RRF SD: 0.0695985, Relative SD: 7.35974

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	200121R1_1	100	0.49	NO	33.93	1.009	1.16e6	1.28e6	95.4	-4.6	0.902	bb
2	200121R1_2	100	0.49	NO	33.91	1.009	1.14e6	1.28e6	94.1	-5.9	0.889	bb

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200121R1_3	100	0.49	NO	33.92	1.009	1.31e6	1.44e6	96.0	-4.0	0.908	bb
4	200121R1_4	100	0.49	NO	33.91	1.009	9.50e5	9.71e5	103	3.5	0.978	bb
5	200121R1_5	100	0.49	NO	33.92	1.009	1.51e6	1.64e6	97.6	-2.4	0.923	bb
6	200121R1_6	100	0.49	NO	33.93	1.009	1.82e6	1.69e6	113	13.4	1.07	bb

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

Response Factor: 0.815567

RRF SD: 0.0668162, Relative SD: 8.19261

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	200121R1_1	100	0.48	NO	34.84	1.036	9.61e5	1.28e6	91.8	-8.2	0.748	bb
2	200121R1_2	100	0.48	NO	34.83	1.036	9.89e5	1.28e6	94.9	-5.1	0.774	bb
3	200121R1_3	100	0.48	NO	34.84	1.036	1.12e6	1.44e6	95.3	-4.7	0.777	bb
4	200121R1_4	100	0.48	NO	34.83	1.036	8.31e5	9.71e5	105	4.9	0.856	bb
5	200121R1_5	100	0.49	NO	34.84	1.036	1.33e6	1.64e6	99.2	-0.8	0.809	bb
6	200121R1_6	100	0.49	NO	34.85	1.036	1.57e6	1.69e6	114	13.9	0.929	bb

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

Response Factor: 0.589153

RRF SD: 0.047443, Relative SD: 8.05274

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	200121R1_1	100	0.41	NO	36.60	1.088	7.08e5	1.28e6	93.7	-6.3	0.552	bb
2	200121R1_2	100	0.41	NO	36.59	1.088	7.21e5	1.28e6	95.8	-4.2	0.565	bb
3	200121R1_3	100	0.41	NO	36.60	1.088	8.04e5	1.44e6	94.9	-5.1	0.559	bd
4	200121R1_4	100	0.41	NO	36.59	1.088	5.77e5	9.71e5	101	0.9	0.594	bb
5	200121R1_5	100	0.41	NO	36.60	1.089	9.59e5	1.64e6	99.3	-0.7	0.585	bb
6	200121R1_6	100	0.41	NO	36.61	1.089	1.15e6	1.69e6	115	15.5	0.680	bb

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

Last Altered: Wednesday, January 22, 2020 09:29:50 Pacific Standard Time

Printed: Wednesday, January 22, 2020 09:53:59 Pacific Standard Time

Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.447956

RRF SD: 0.0532865, Relative SD: 11.8955

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	200121R1_1	100	0.41	NO	38.60	1.148	5.25e5	1.28e6	91.2	-8.8	0.409	bd
2	200121R1_2	100	0.40	NO	38.59	1.148	5.53e5	1.28e6	96.7	-3.3	0.433	bb
3	200121R1_3	100	0.41	NO	38.60	1.148	5.88e5	1.44e6	91.3	-8.7	0.409	bb
4	200121R1_4	100	0.41	NO	38.59	1.148	4.40e5	9.71e5	101	1.1	0.453	bb
5	200121R1_5	100	0.41	NO	38.59	1.148	7.10e5	1.64e6	96.7	-3.3	0.433	bb
6	200121R1_6	100	0.42	NO	38.61	1.148	9.33e5	1.69e6	123	23.1	0.551	bb

Compound name: 13C-OCDF

Response Factor: 0.585674

RRF SD: 0.119724, Relative SD: 20.4422

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	200121R1_1	200	0.85	NO	41.21	1.226	1.48e6	1.28e6	197	-1.3	0.578	bb
2	200121R1_2	200	0.84	NO	41.19	1.225	1.50e6	1.28e6	200	0.1	0.586	bb
3	200121R1_3	200	0.84	NO	41.20	1.225	1.41e6	1.44e6	167	-16.4	0.490	bb
4	200121R1_4	200	0.84	NO	41.19	1.225	8.88e5	9.71e5	156	-21.9	0.457	bb
5	200121R1_5	200	0.84	NO	41.20	1.226	1.98e6	1.64e6	206	3.0	0.603	bb
6	200121R1_6	200	0.84	NO	41.22	1.226	2.70e6	1.69e6	273	36.5	0.799	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.08568

RRF SD: 0.146073, Relative SD: 13.4545

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	200121R1_1	0.250			25.87	1.026	4.03e3	1.80e6	0.207	-17.3	0.898	bb
2	200121R1_2	0.500			25.87	1.026	8.79e3	1.83e6	0.442	-11.5	0.961	bb

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

Last Altered: Wednesday, January 22, 2020 09:29:50 Pacific Standard Time
 Printed: Wednesday, January 22, 2020 09:53:59 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	200121R1_3	2.00			25.87	1.026	4.39e4	2.01e6	2.01	0.4	1.09	bb
4	200121R1_4	10.0			25.85	1.026	1.56e5	1.42e6	10.1	1.0	1.10	bb
5	200121R1_5	40.0			25.87	1.026	1.03e6	2.23e6	42.7	6.7	1.16	bb
6	200121R1_6	200			25.89	1.026	5.85e6	2.23e6	241	20.6	1.31	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 9.93014e-017, Relative SD: 9.93014e-015

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200121R1_1	100	0.80	NO	25.21	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
2	200121R1_2	100	0.80	NO	25.21	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
3	200121R1_3	100	0.80	NO	25.23	1.000	2.01e6	2.01e6	100	0.0	1.00	bb
4	200121R1_4	100	0.80	NO	25.20	1.000	1.42e6	1.42e6	100	0.0	1.00	bb
5	200121R1_5	100	0.80	NO	25.21	1.000	2.23e6	2.23e6	100	0.0	1.00	bb
6	200121R1_6	100	0.80	NO	25.23	1.000	2.23e6	2.23e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 9.93014e-017, Relative SD: 9.93014e-015

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	200121R1_1	100	0.74	NO	23.58	1.000	2.48e6	2.48e6	100	0.0	1.00	bb
2	200121R1_2	100	0.75	NO	23.58	1.000	2.52e6	2.52e6	100	0.0	1.00	bb
3	200121R1_3	100	0.74	NO	23.59	1.000	2.71e6	2.71e6	100	0.0	1.00	bb
4	200121R1_4	100	0.74	NO	23.57	1.000	1.99e6	1.99e6	100	0.0	1.00	bb
5	200121R1_5	100	0.75	NO	23.58	1.000	2.95e6	2.95e6	100	0.0	1.00	bb
6	200121R1_6	100	0.75	NO	23.59	1.000	2.98e6	2.98e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_CRV.qld

Last Altered: Wednesday, January 22, 2020 09:29:50 Pacific Standard Time

Printed: Wednesday, January 22, 2020 09:53:59 Pacific Standard Time

Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 9.93014e-017, Relative SD: 9.93014e-015

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	200121R1_1	100	0.48	NO	33.63	1.000	1.28e6	1.28e6	100	0.0	1.00	bb
2	200121R1_2	100	0.49	NO	33.61	1.000	1.28e6	1.28e6	100	0.0	1.00	bb
3	200121R1_3	100	0.48	NO	33.63	1.000	1.44e6	1.44e6	100	0.0	1.00	bb
4	200121R1_4	100	0.49	NO	33.61	1.000	9.71e5	9.71e5	100	0.0	1.00	bb
5	200121R1_5	100	0.50	NO	33.61	1.000	1.64e6	1.64e6	100	0.0	1.00	bb
6	200121R1_6	100	0.49	NO	33.63	1.000	1.69e6	1.69e6	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 11:16:46 Pacific Standard Time

Printed: Wednesday, January 22, 2020 11:17:01 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 22 Jan 2020 11:16:40

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200121R1_4, Date: 21-Jan-2020, Time: 16:32:26, ID: ST200121R1_4 1613 CS3 19I1604, Description: 1613 CS3 19I1604

#	Name	RT
1	1,3,6,8-TCDD (First)	21.95
2	1,2,8,9-TCDD (Last)	26.80
3	1,2,4,7,9-PeCDD (First)	28.55
4	1,2,3,8,9-PeCDD (Last)	31.14
5	1,2,4,6,7,9-HxCDD (First)	32.60
6	1,2,3,7,8,9-HxCDD (Last)	34.49
7	1,2,3,4,6,7,9-HpCDD (First)	36.99
8	1,2,3,4,6,7,8-HpCDD (Last)	38.03
9	1,3,6,8-TCDF (First)	19.82
10	1,2,8,9-TCDF (Last)	26.95
11	1,3,4,6,8-PeCDF (First)	26.90
12	1,2,3,8,9-PeCDF (Last)	31.38
13	1,2,3,4,6,8-HxCDF (First)	32.06
14	1,2,3,7,8,9-HxCDF (Last)	34.85
15	1,2,3,4,6,7,8-HpCDF (First)	36.60
16	1,2,3,4,7,8,9-HpCDF (Last)	38.60

Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:56:31 Pacific Standard Time

Printed: Wednesday, January 22, 2020 09:56:54 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-15-20.mdb 21 Jan 2020 11:10:24
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

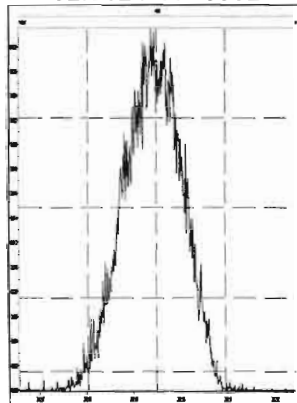
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200121R1_1	ST200121R1_1 1613 CS0 19C2201	21-Jan-20	14:11:21
2	200121R1_2	ST200121R1_2 1613 CS1 19C2202	21-Jan-20	14:58:26
3	200121R1_3	ST200121R1_3 1613 CS2 19C2203	21-Jan-20	15:45:27
4	200121R1_4	ST200121R1_4 1613 CS3 19I1604	21-Jan-20	16:32:26
5	200121R1_5	ST200121R1_5 1613 CS4 19C2205	21-Jan-20	17:19:23
6	200121R1_6	ST200121R1_6 1613 CS5 19C2206	21-Jan-20	18:06:23
7	200121R1_7	SOLVENT BLANK	21-Jan-20	18:53:23
8	200121R1_8	SS200121R1_1 1613 SSS 19C2207	21-Jan-20	19:40:22
9	200121R1_9	SOLVENT BLANK	21-Jan-20	20:27:20
10	200121R1_10	QC200121D1_1 HRMS-191231-1 1613 BLK-1	21-Jan-20	21:14:18
11	200121R1_11	QC200121D1_2 HRMS-191231-2 1613 BS-1	21-Jan-20	22:01:20

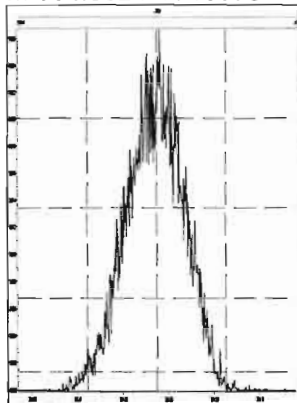
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Printed: Tuesday, January 21, 2020 14:06:23 Pacific Standard Time

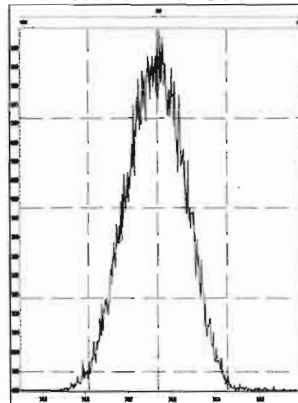
M 292.9824 R 10962



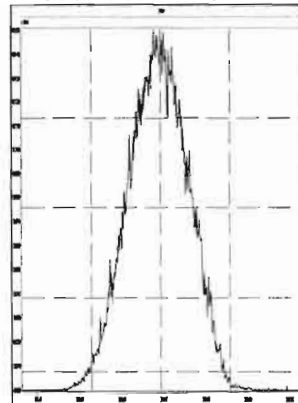
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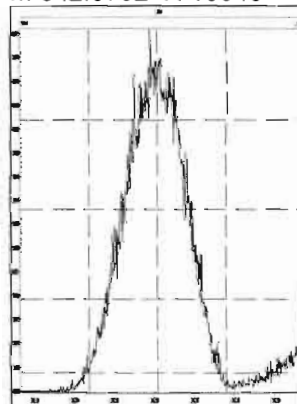
M 318.9792 R 10334



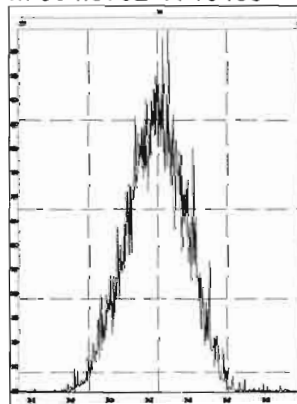
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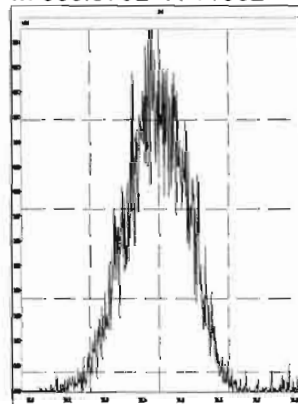
M 342.9792 R 10040



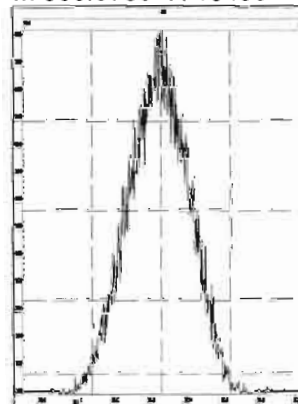
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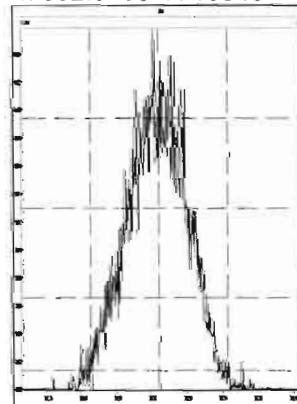
M 366.9792 R 11062



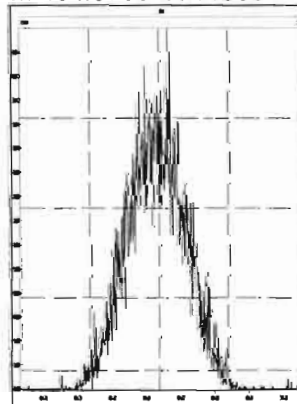
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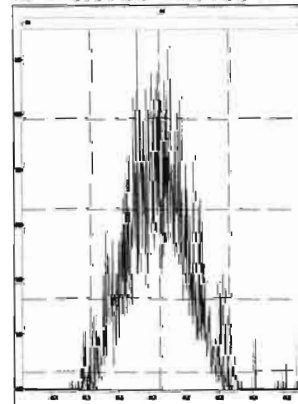
M 392.9760 R 10546



M 404.9760 R 11363



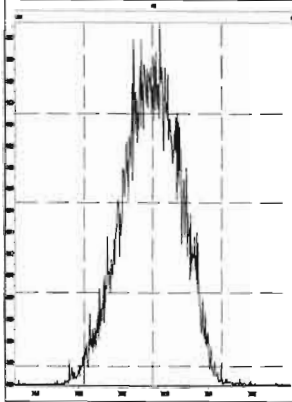
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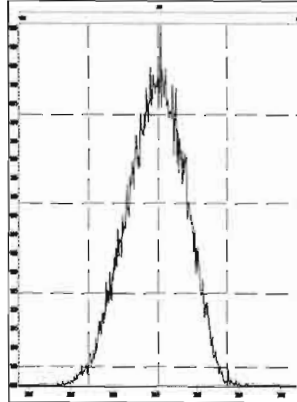
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Printed: Tuesday, January 21, 2020 14:06:59 Pacific Standard Time

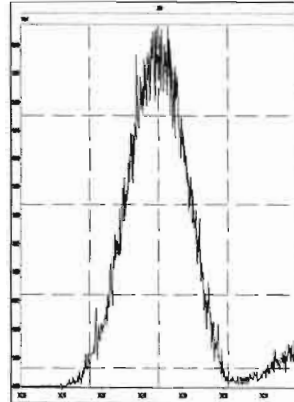
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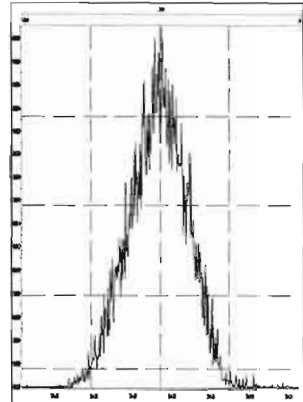
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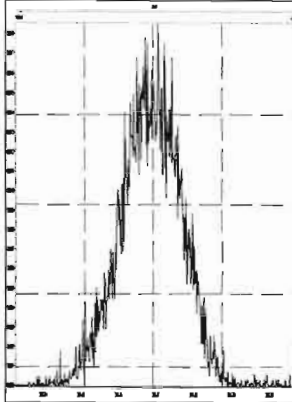
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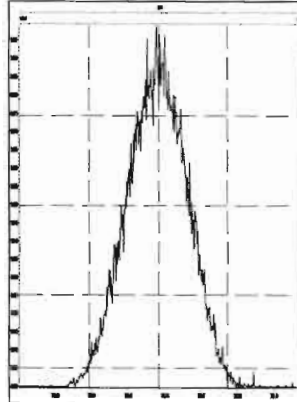
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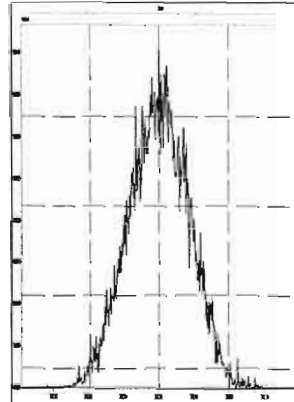
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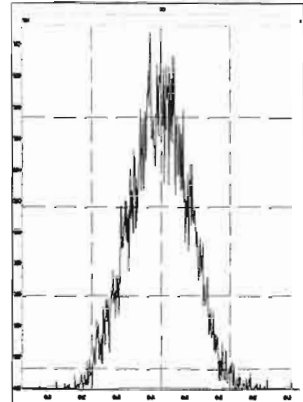
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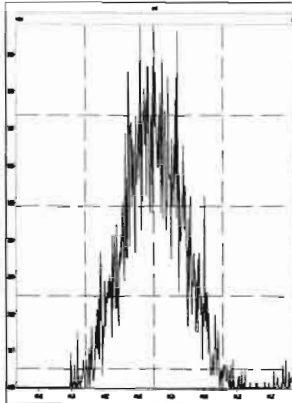
M 392.9760 R 10160



M 404.9760 R 11009



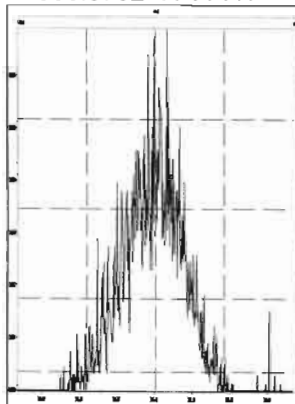
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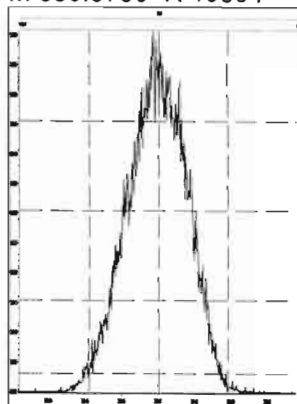
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Printed: Tuesday, January 21, 2020 14:08:02 Pacific Standard Time

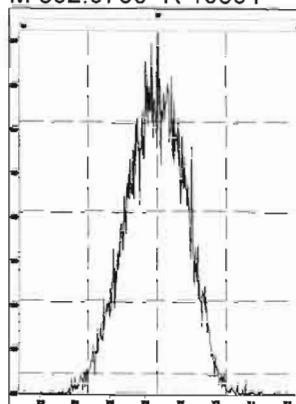
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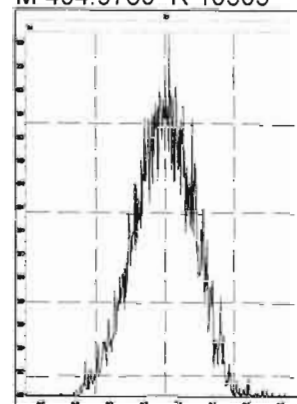
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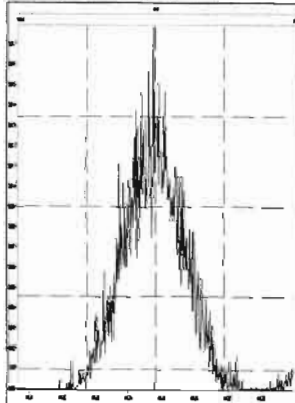
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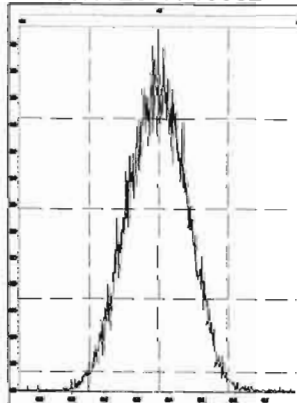
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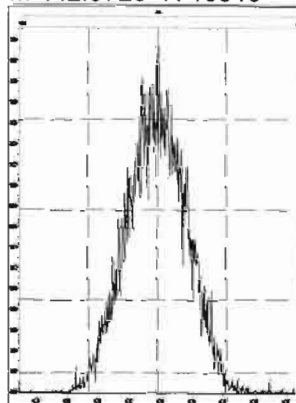
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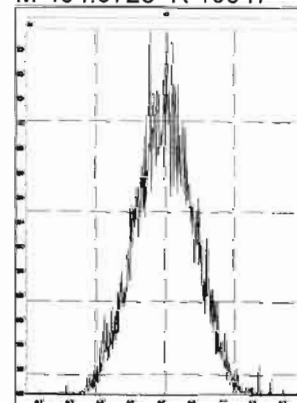
M 430.9728 R 10082



M 442.9728 R 10819



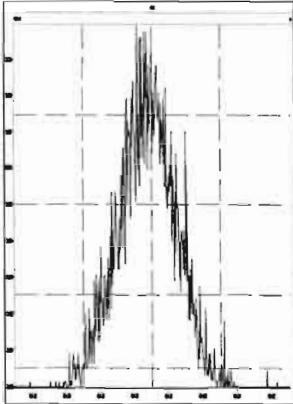
M 454.9728 R 10547



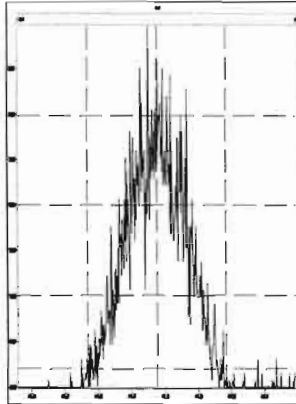
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, January 21, 2020 14:09:20 Pacific Standard Time

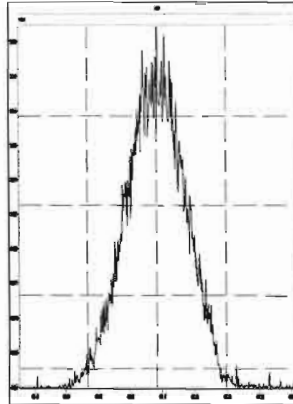
M 404.9760 R 11212



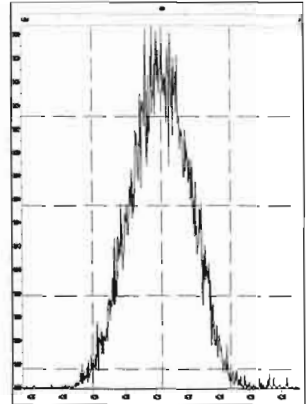
M 416.9760 R 12195



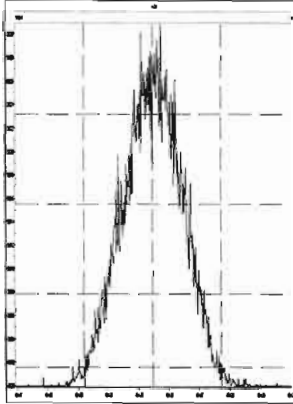
M 430.9728 R 10637



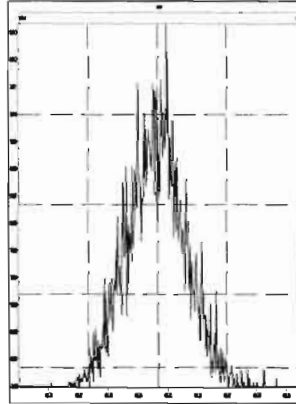
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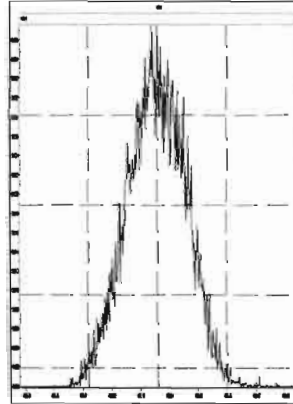
M 454.9728 R 10592



M 466.9728 R 12498



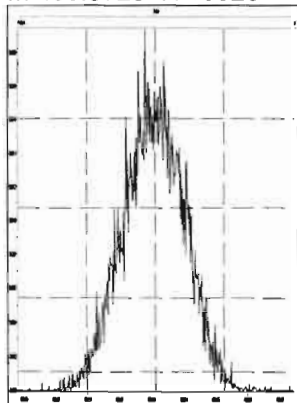
M 480.9696 R 10635



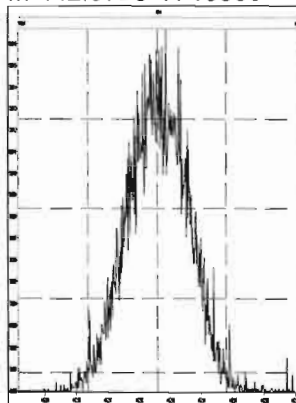
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, January 21, 2020 14:10:41 Pacific Standard Time

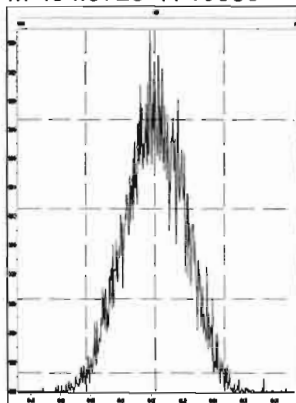
M 430.9728 R 10823



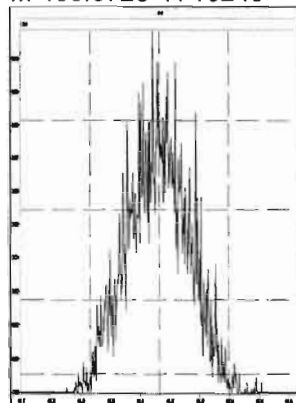
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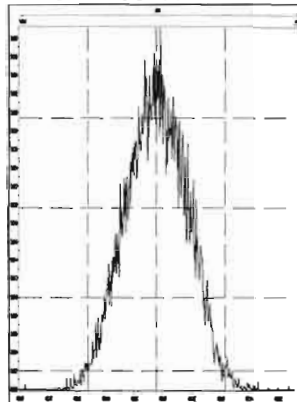
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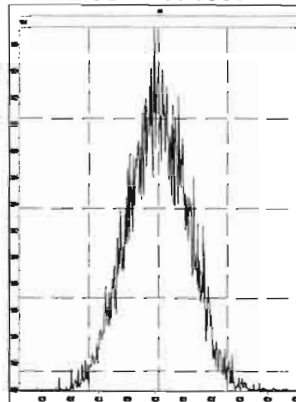
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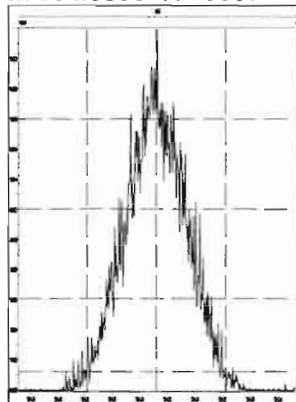
M 480.9696 R 10002



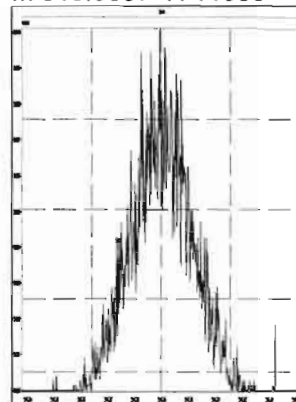
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M 504.9696 R 10637



M 516.9697 R 11066



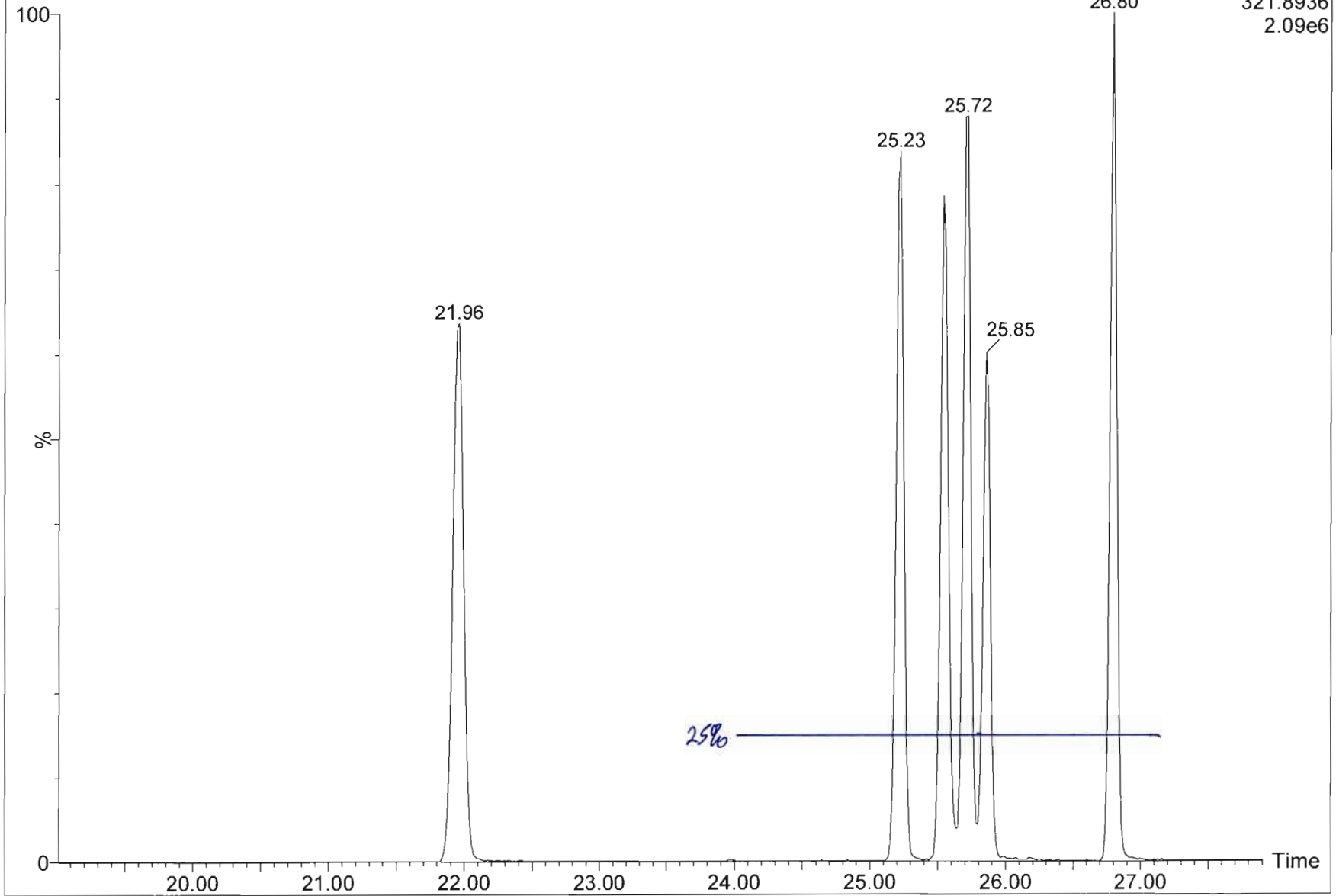
1613 CS3 1911604

200121R1_4

1: Voltage SIR 14 Channels EI+

321.8936

2.09e6



Dataset: Untitled

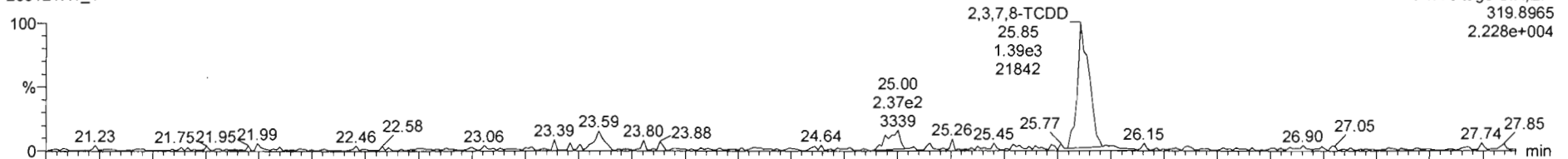
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-15-20.mdb 21 Jan 2020 11:10:24
Calibration: 22 Jan 2020 09:03:58

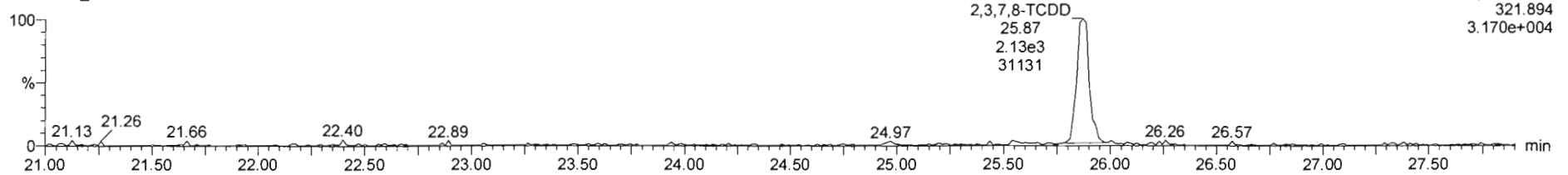
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2,3,7,8-TCDD

200121R1_1

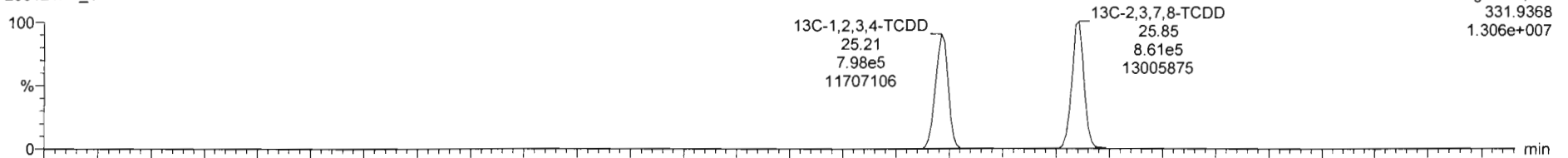


200121R1_1

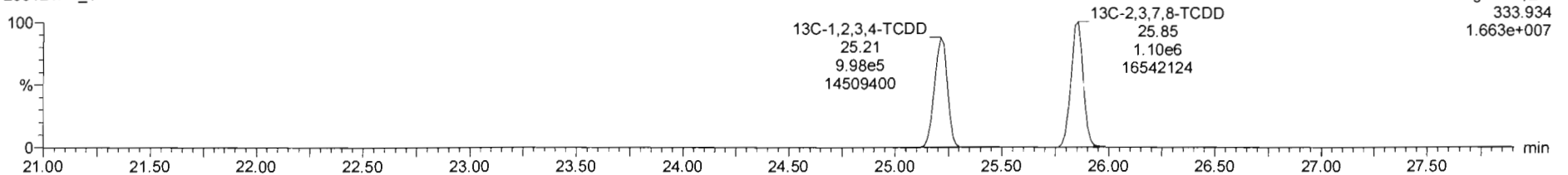


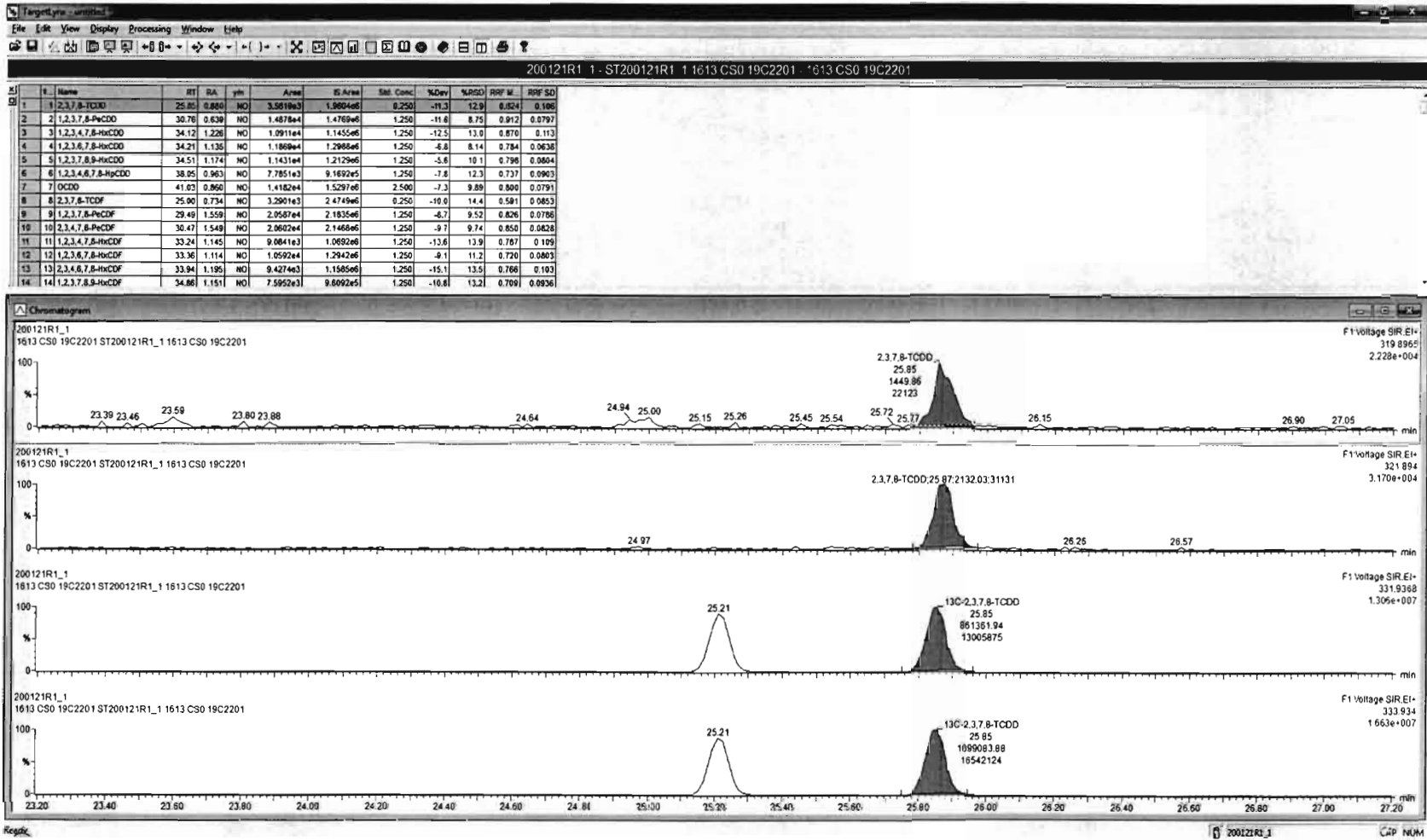
13C-2,3,7,8-TCDD

200121R1_1



200121R1_1



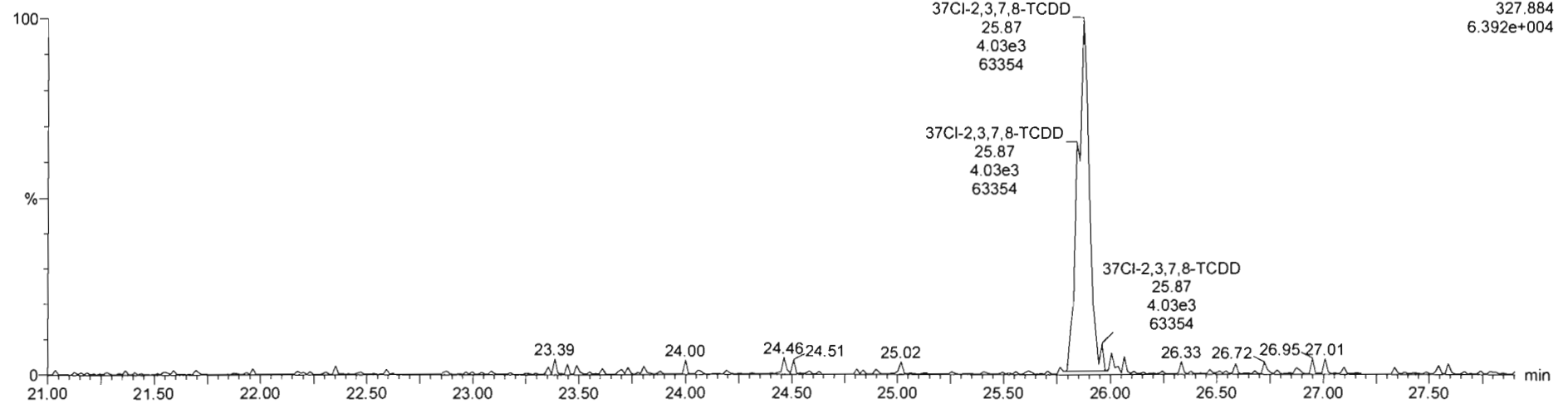


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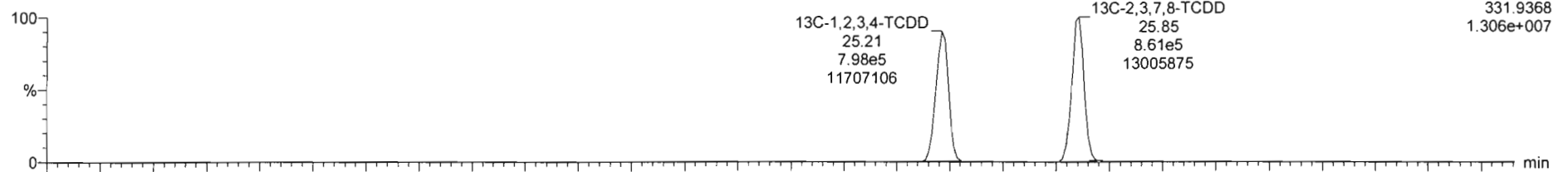
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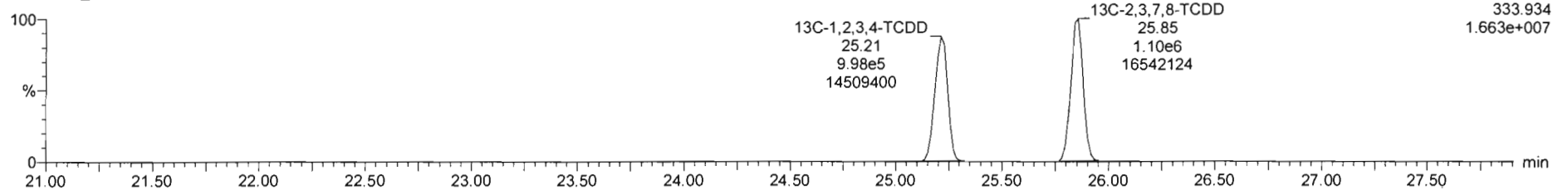
37Cl-2,3,7,8-TCDD
200121R1_1



13C-1,2,3,4-TCDD
200121R1_1



200121R1_1



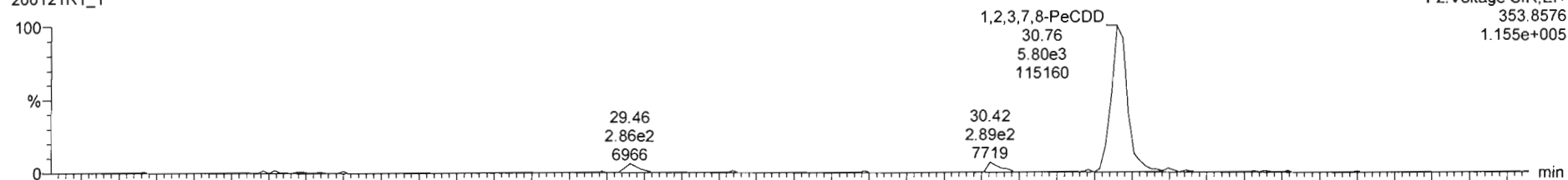
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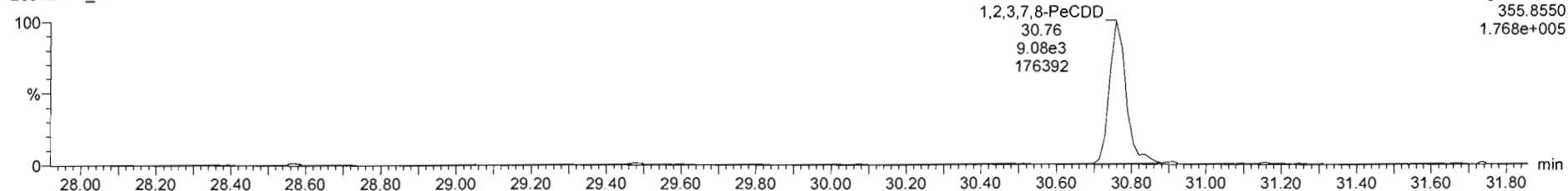
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1,2,3,7,8-PeCDD

200121R1_1

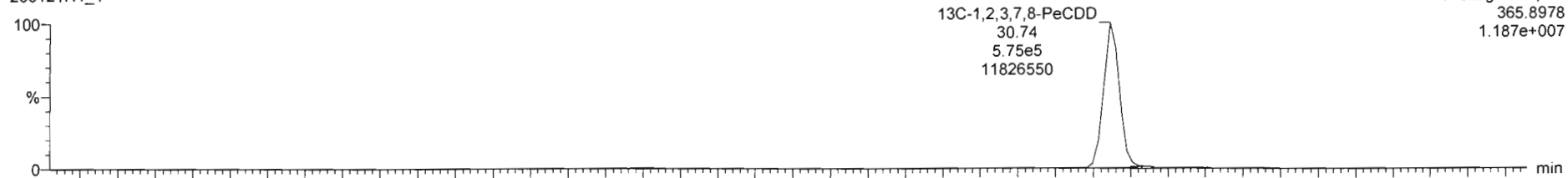


200121R1_1

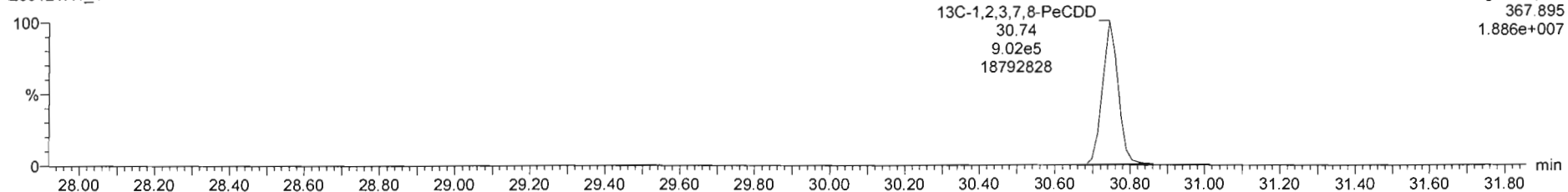


13C-1,2,3,7,8-PeCDD

200121R1_1



200121R1_1



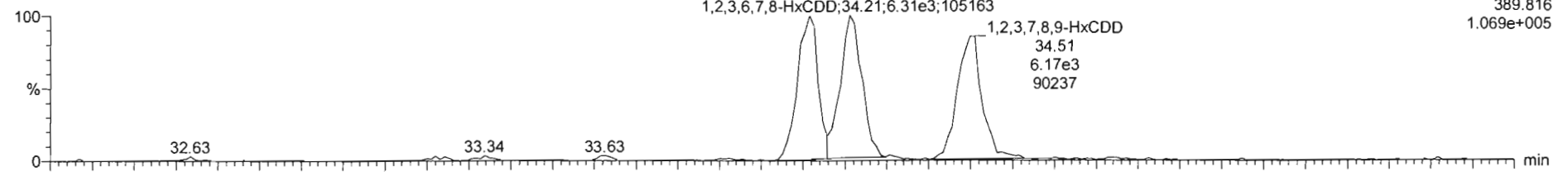
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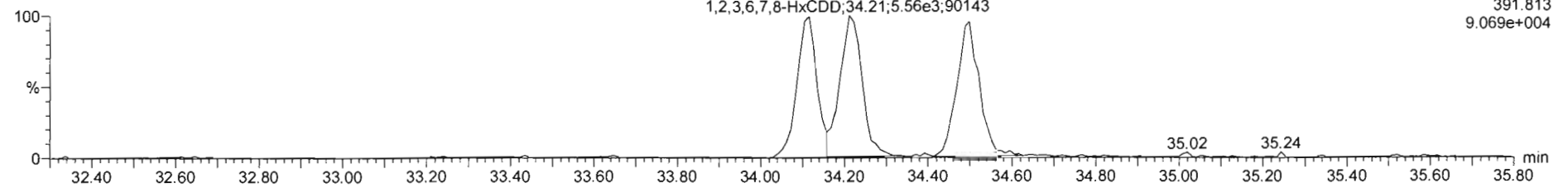
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1,2,3,4,7,8-HxCDD

200121R1_1

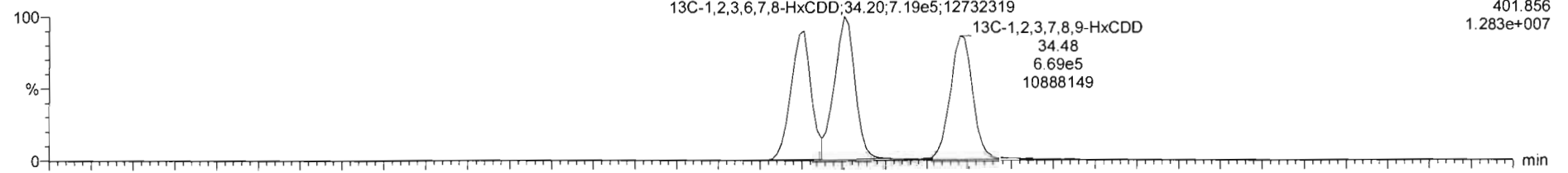


200121R1_1

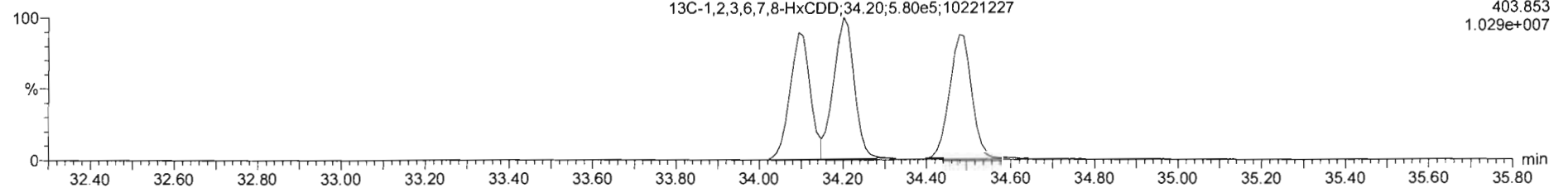


13C-1,2,3,4,7,8-HxCDD

200121R1_1



200121R1_1



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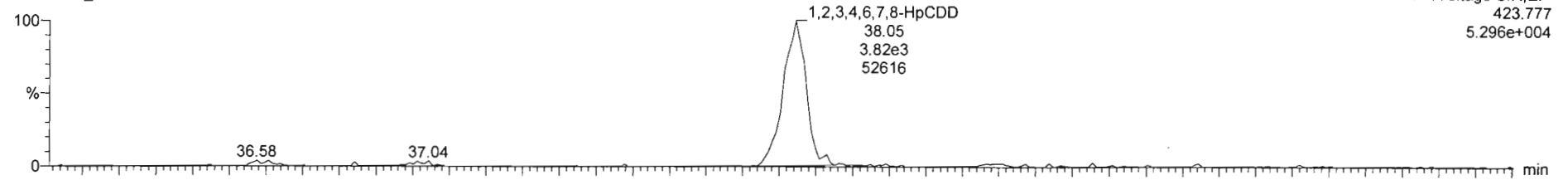
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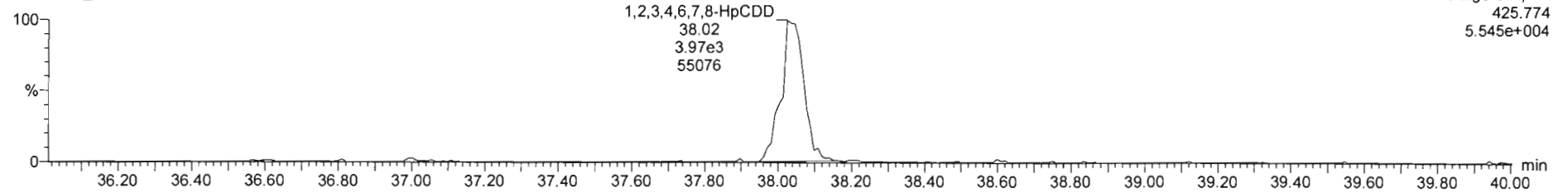
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1,2,3,4,6,7,8-HpCDD

200121R1_1

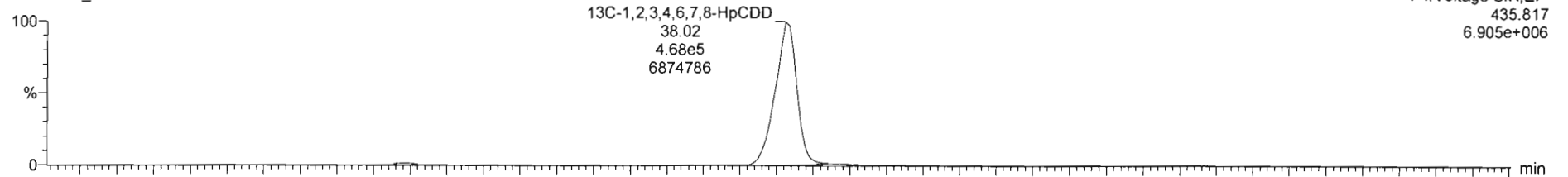


200121R1_1

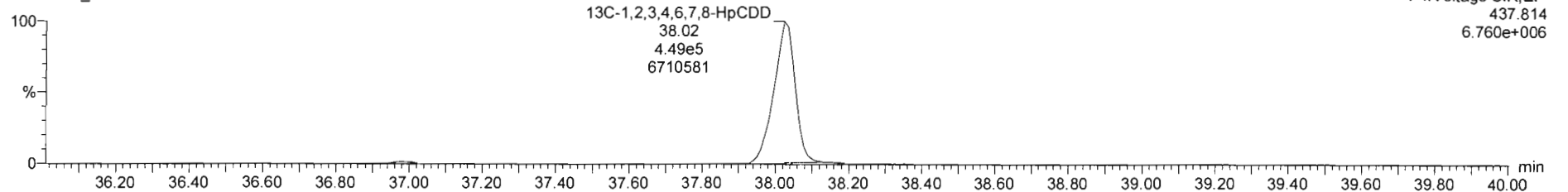


13C-1,2,3,4,6,7,8-HpCDD

200121R1_1



200121R1_1



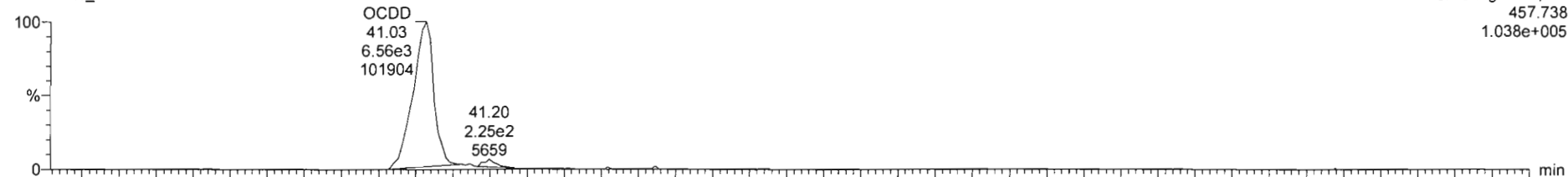
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

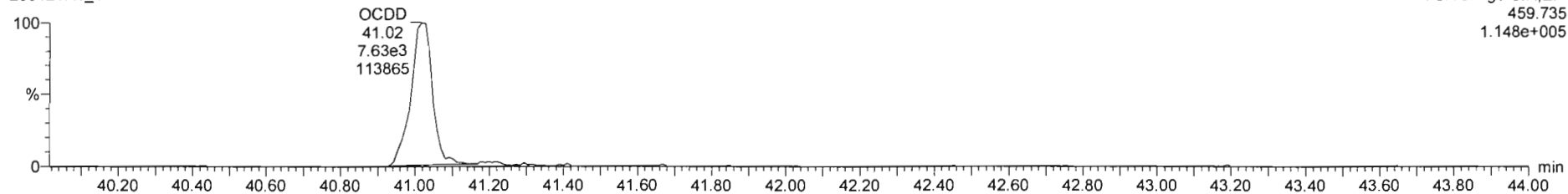
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OCDD

200121R1_1

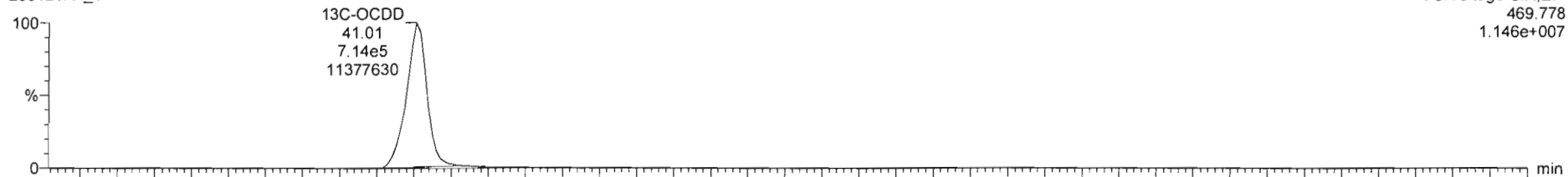


200121R1_1

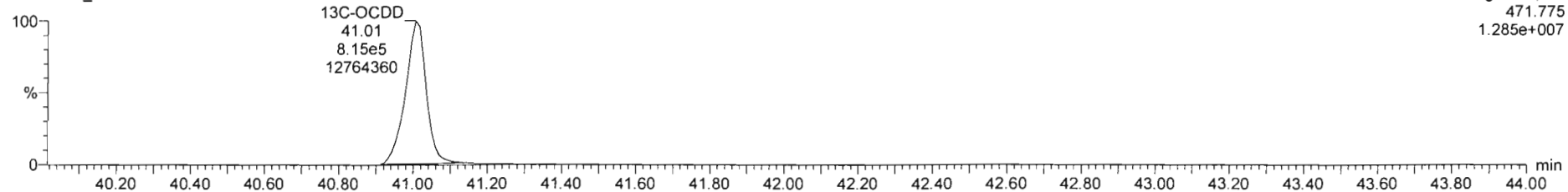


13C-OCDD

200121R1_1



200121R1_1



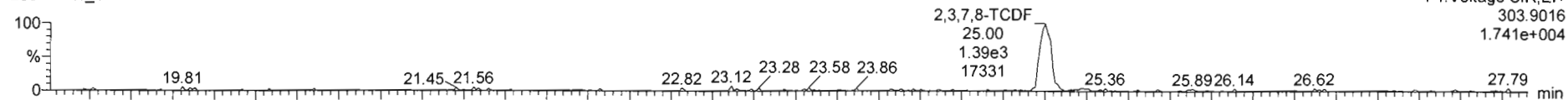
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

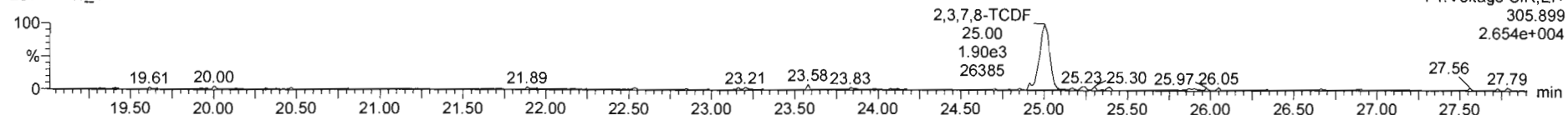
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2,3,7,8-TCDF

200121R1_1

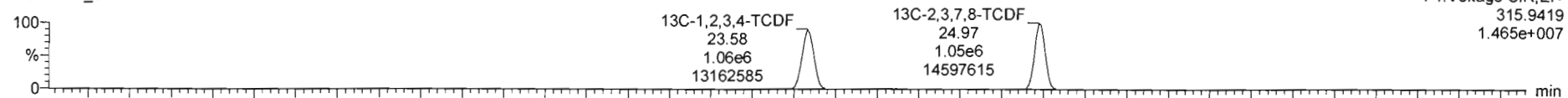


200121R1_1

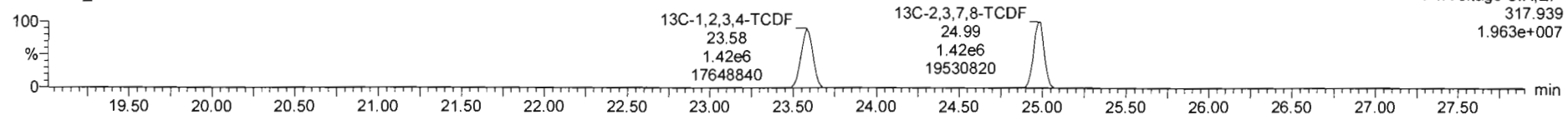


13C-2,3,7,8-TCDF

200121R1_1

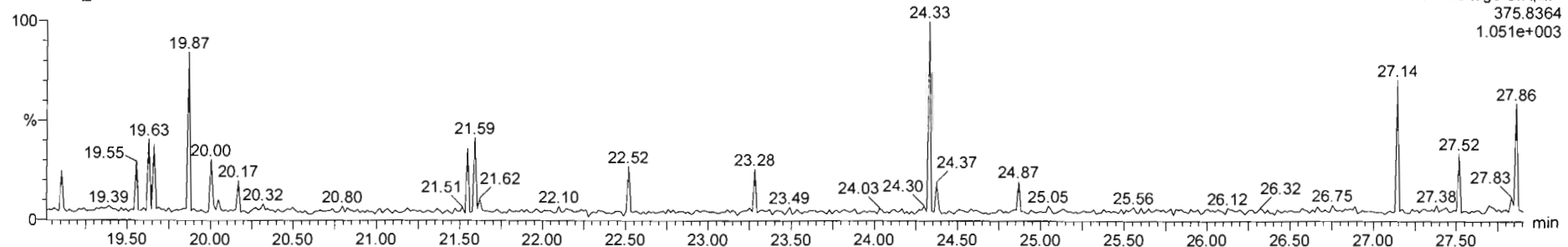


200121R1_1



DPE1

200121R1_1



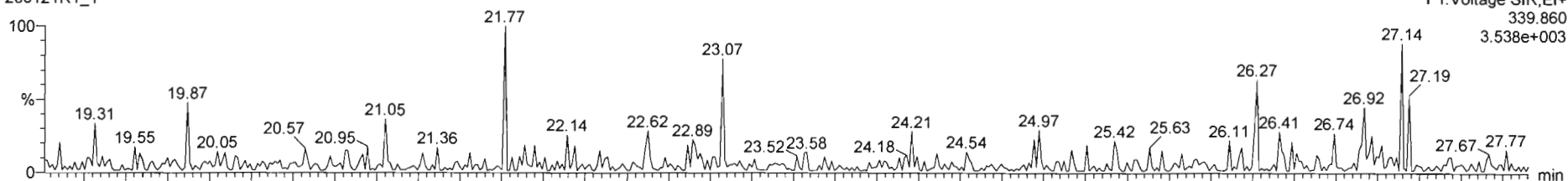
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

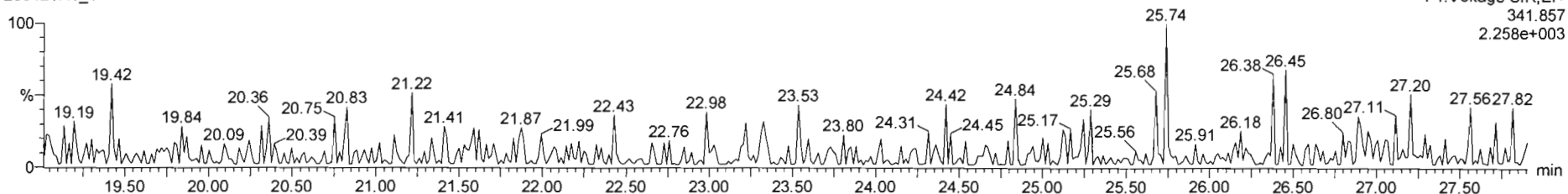
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1st Func. Penta-Furans

200121R1_1

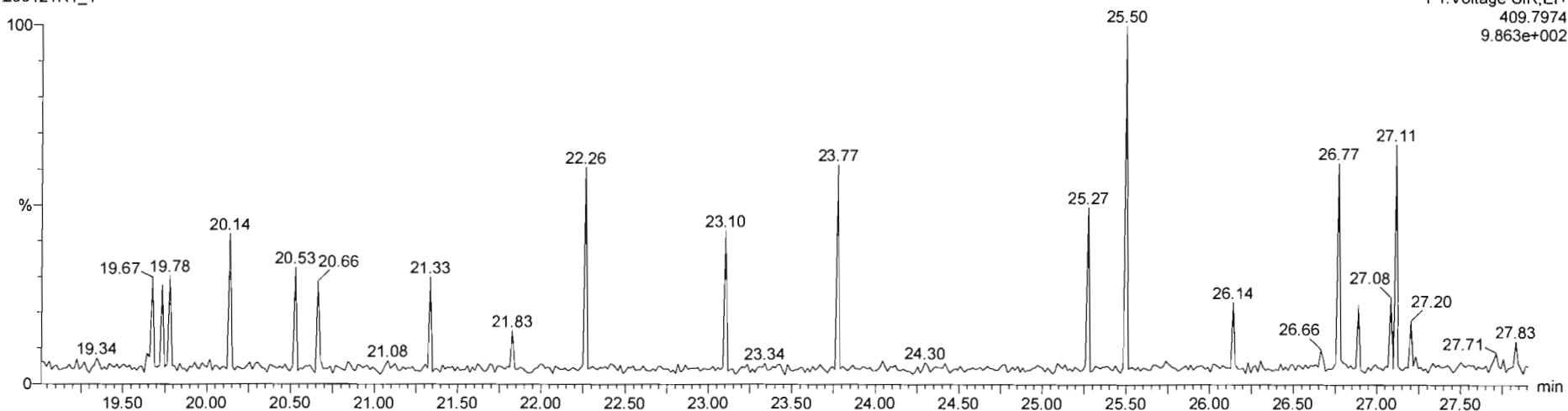


200121R1_1



DPE6

200121R1_1



Dataset: Untitled

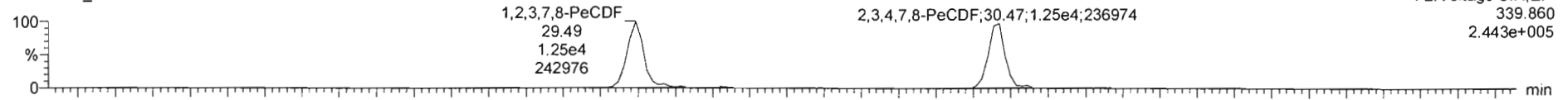
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

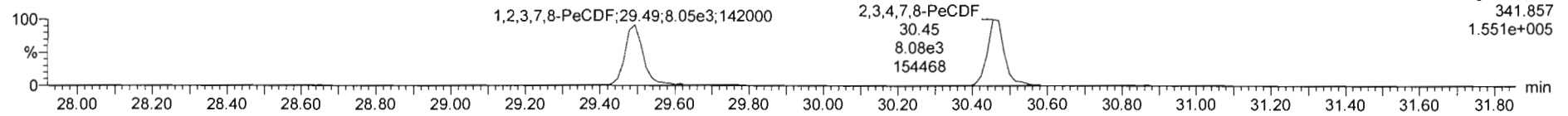
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1,2,3,7,8-PeCDF

200121R1_1

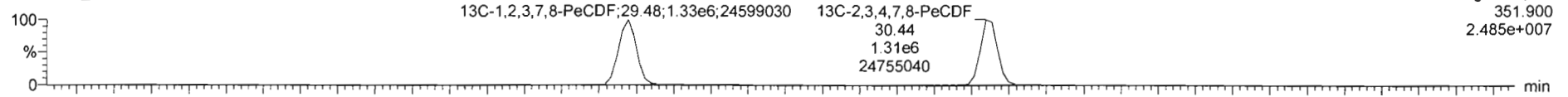


200121R1_1

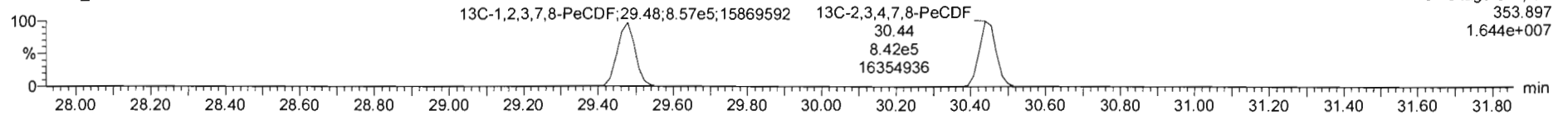


13C-1,2,3,7,8-PeCDF

200121R1_1

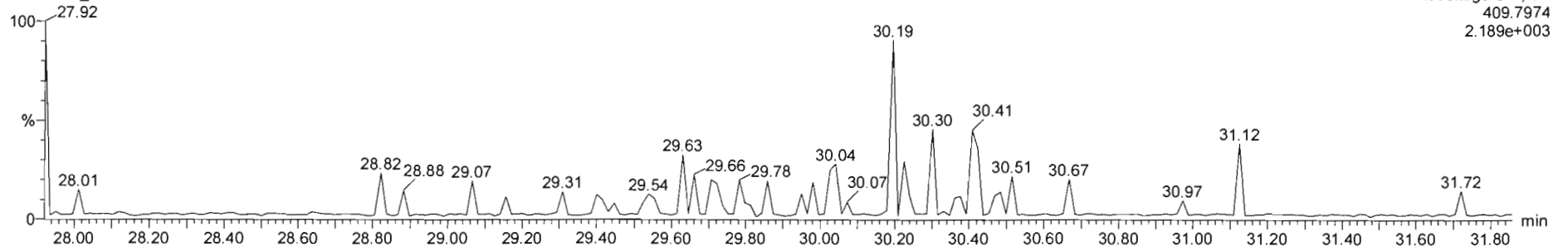


200121R1_1



DPE2

200121R1_1



Dataset: Untitled

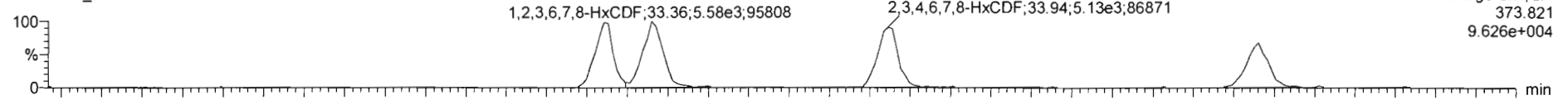
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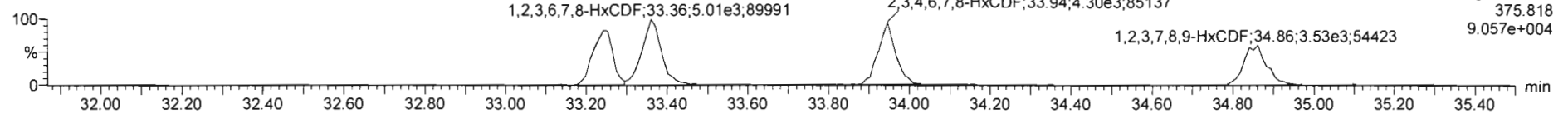
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1,2,3,4,7,8-HxCDF

200121R1_1

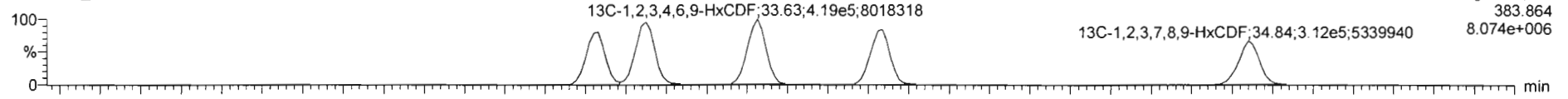


200121R1_1

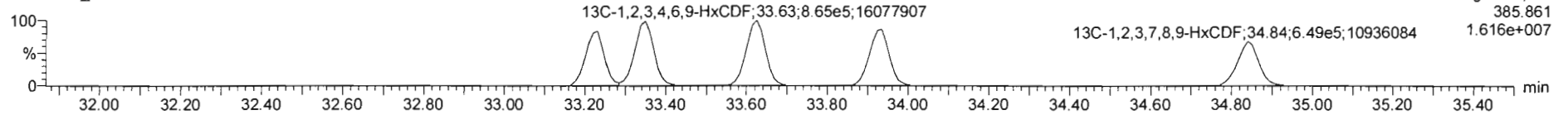


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200121R1_1

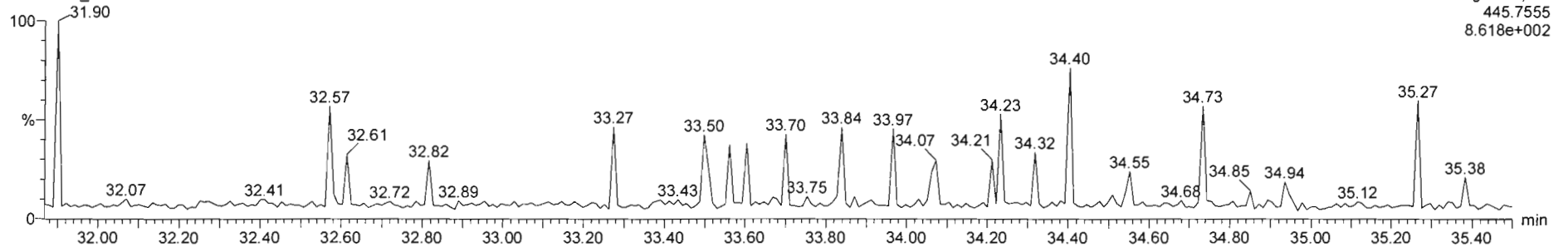


200121R1_1



DPE3

200121R1_1



Dataset: Untitled

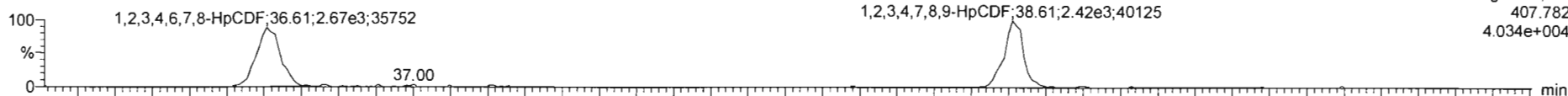
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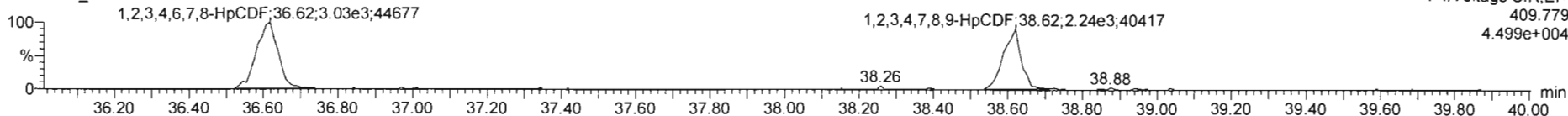
1,2,3,4,6,7,8-HpCDF

200121R1_1



F4: Voltage SIR, EI+
407.782
4.034e+004

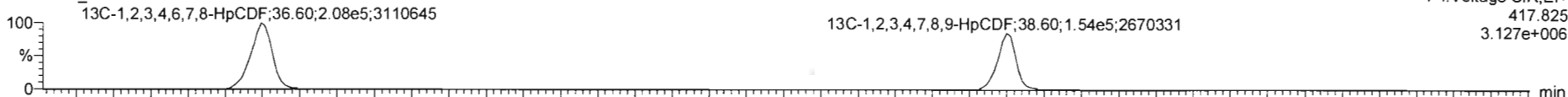
200121R1_1



F4: Voltage SIR, EI+
409.779
4.499e+004

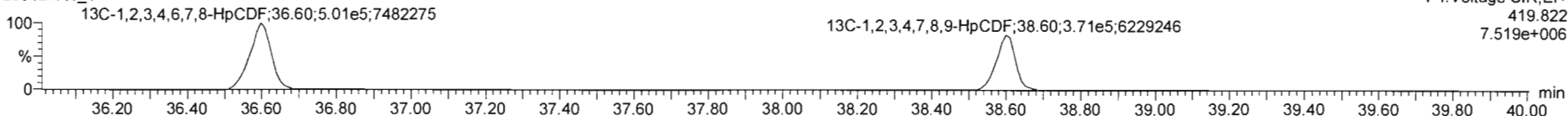
13C-1,2,3,4,6,7,8-HpCDF

200121R1_1



F4: Voltage SIR, EI+
417.825
3.127e+006

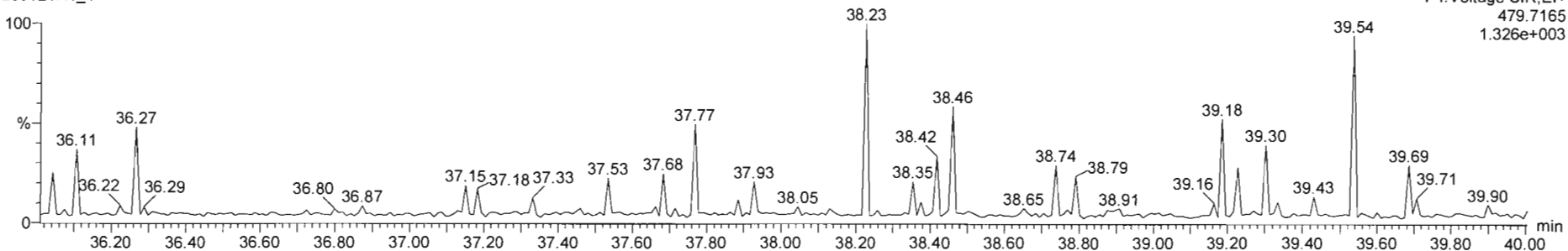
200121R1_1



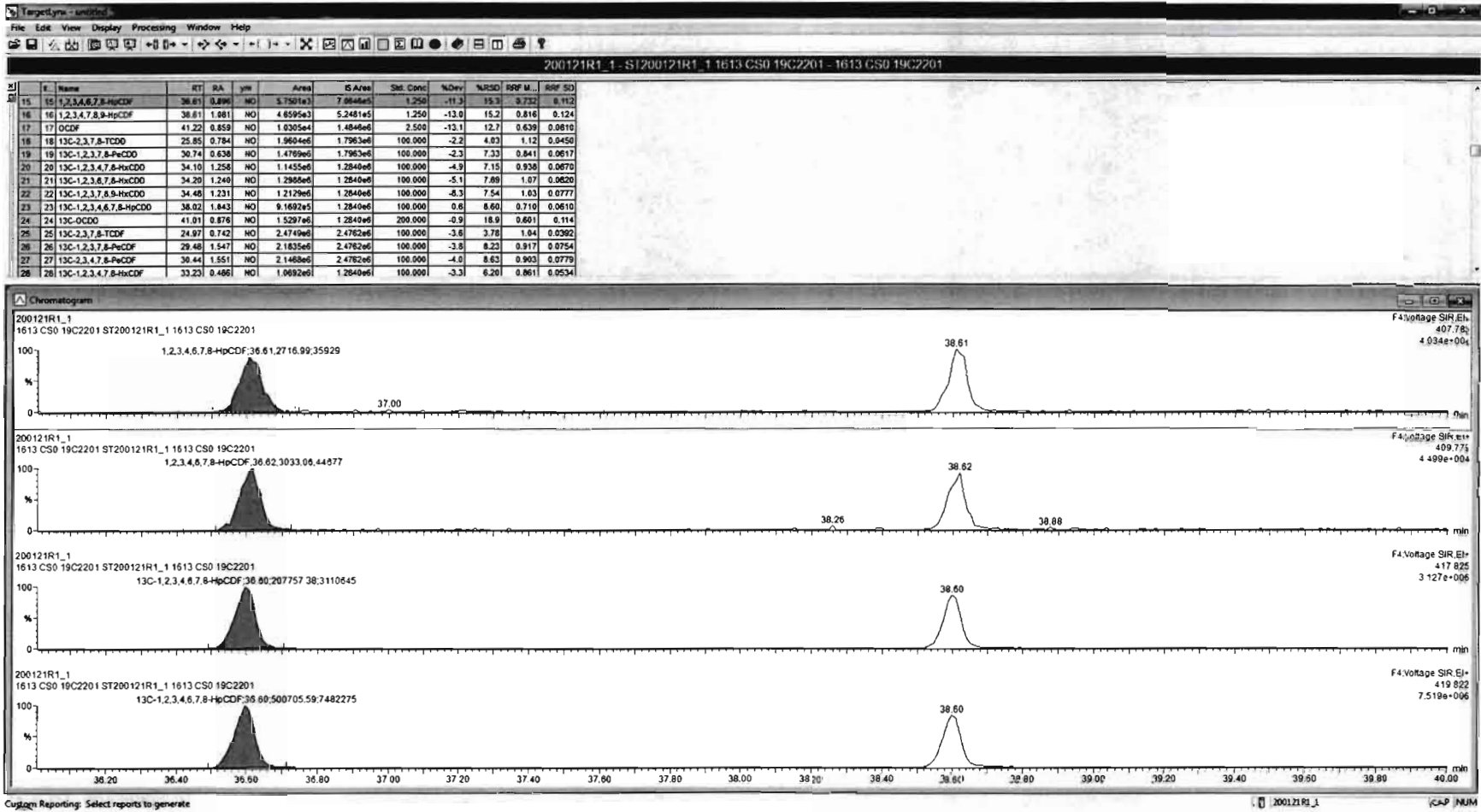
F4: Voltage SIR, EI+
419.822
7.519e+006

DPE4

200121R1_1



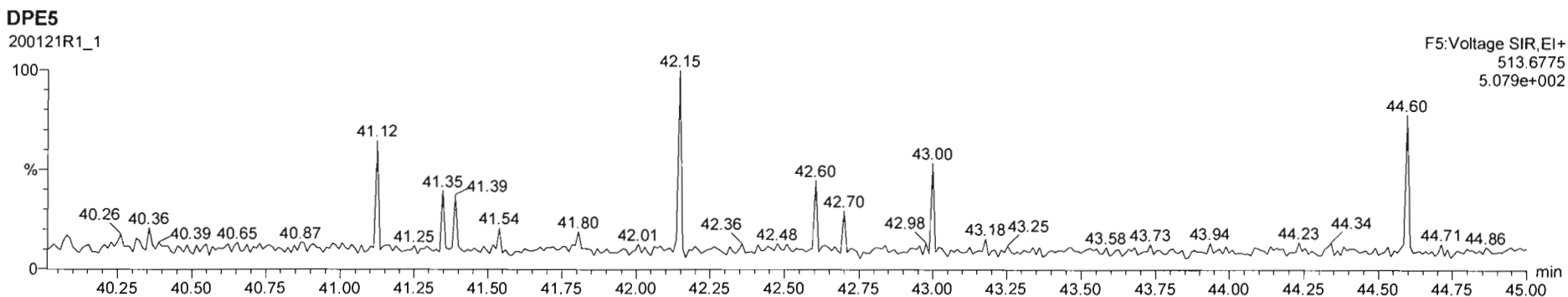
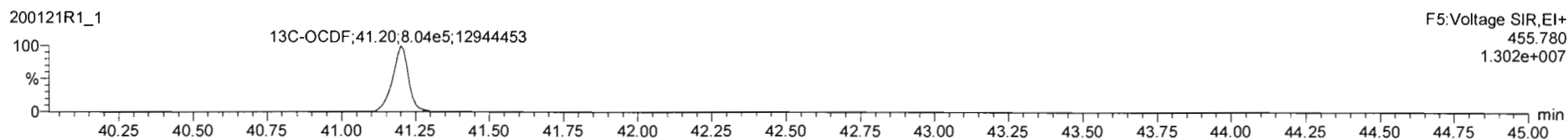
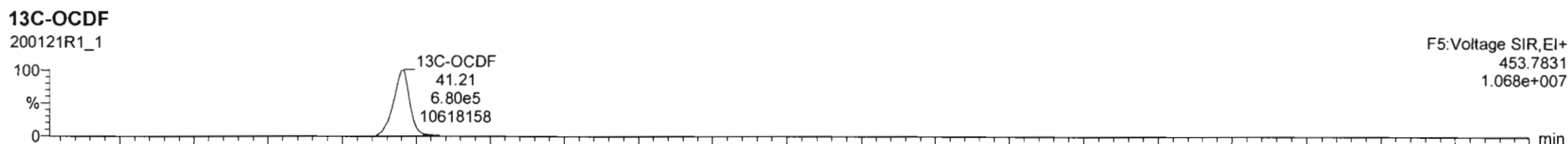
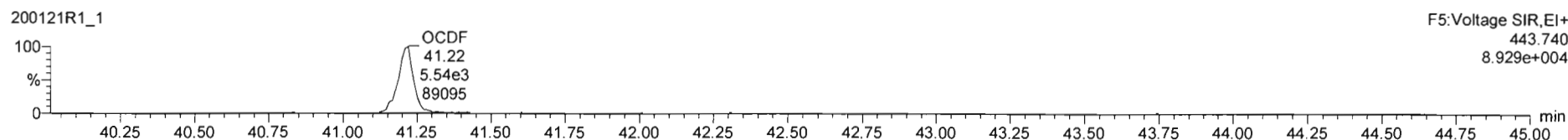
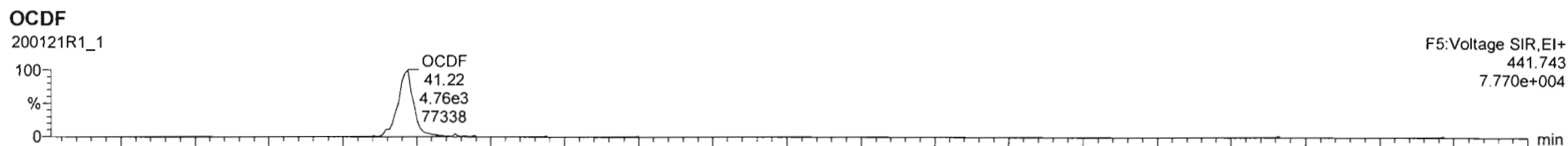
F4: Voltage SIR, EI+
479.7165
1.326e+003



Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

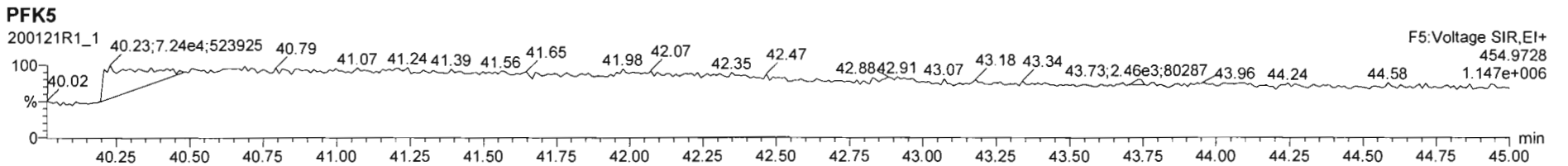
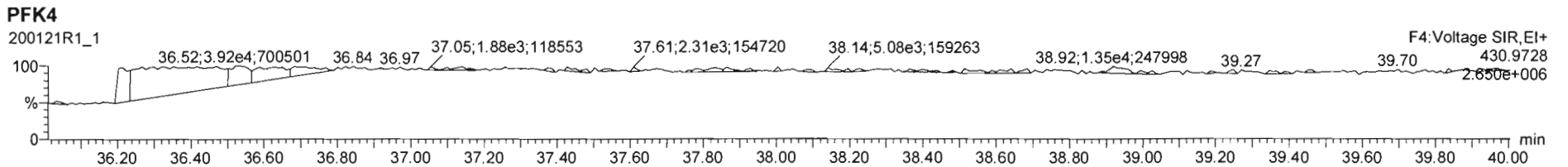
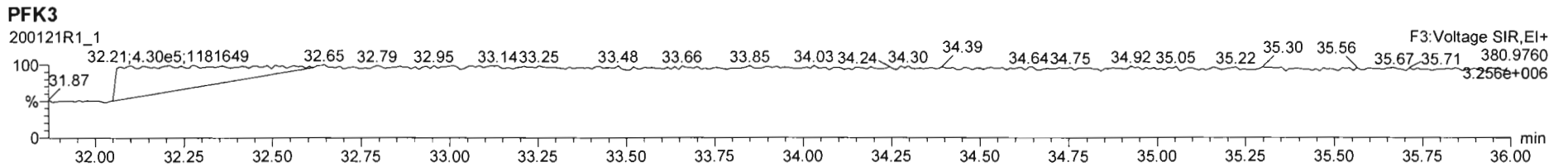
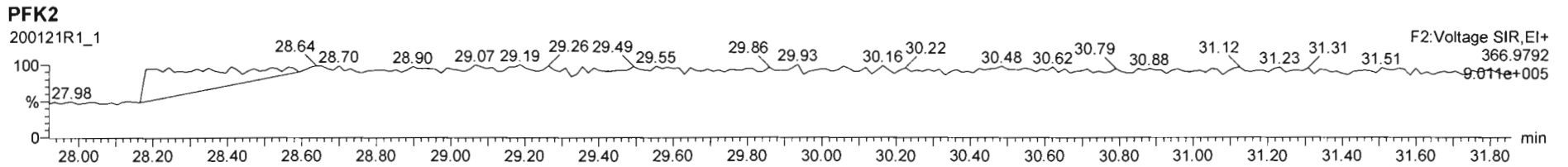
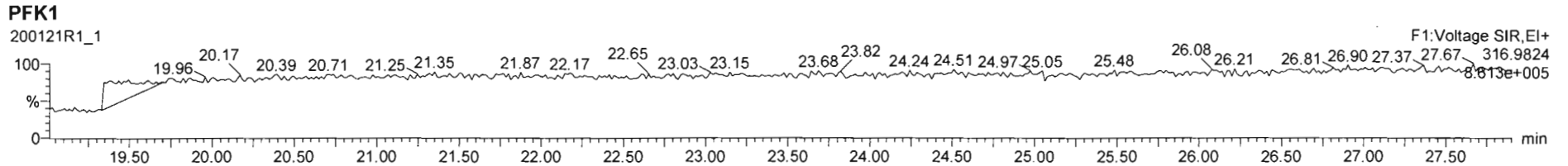
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Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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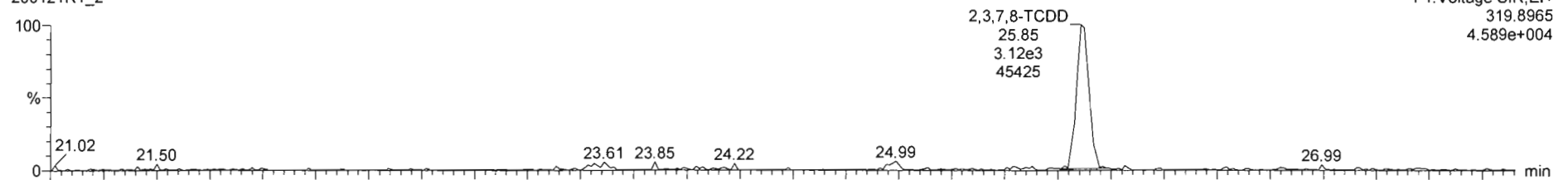
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

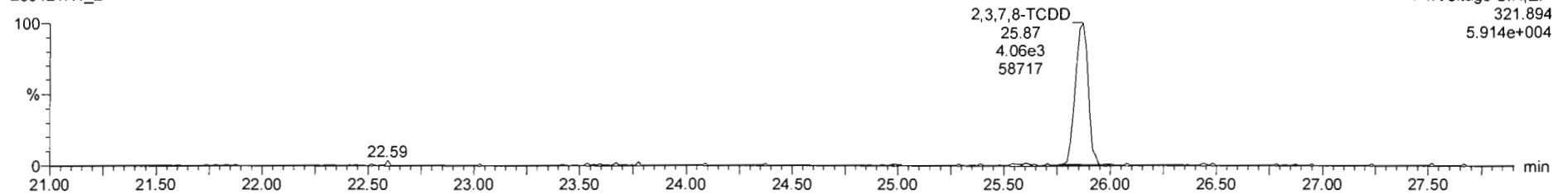
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2,3,7,8-TCDD

200121R1_2

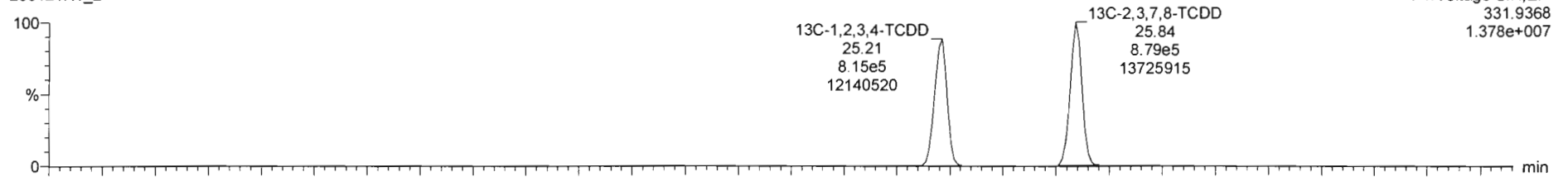


200121R1_2

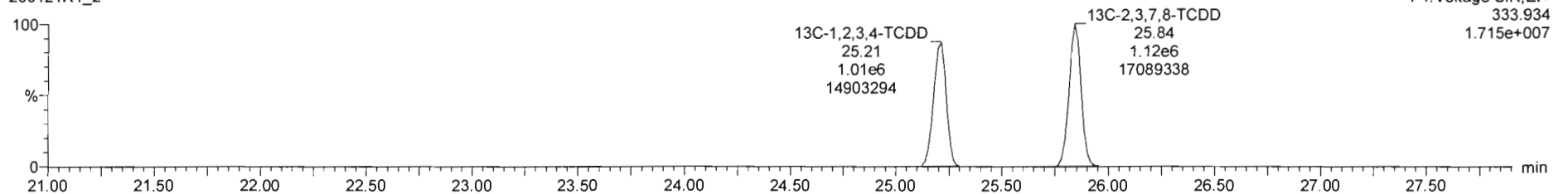


13C-2,3,7,8-TCDD

200121R1_2



200121R1_2



Dataset: Untitled

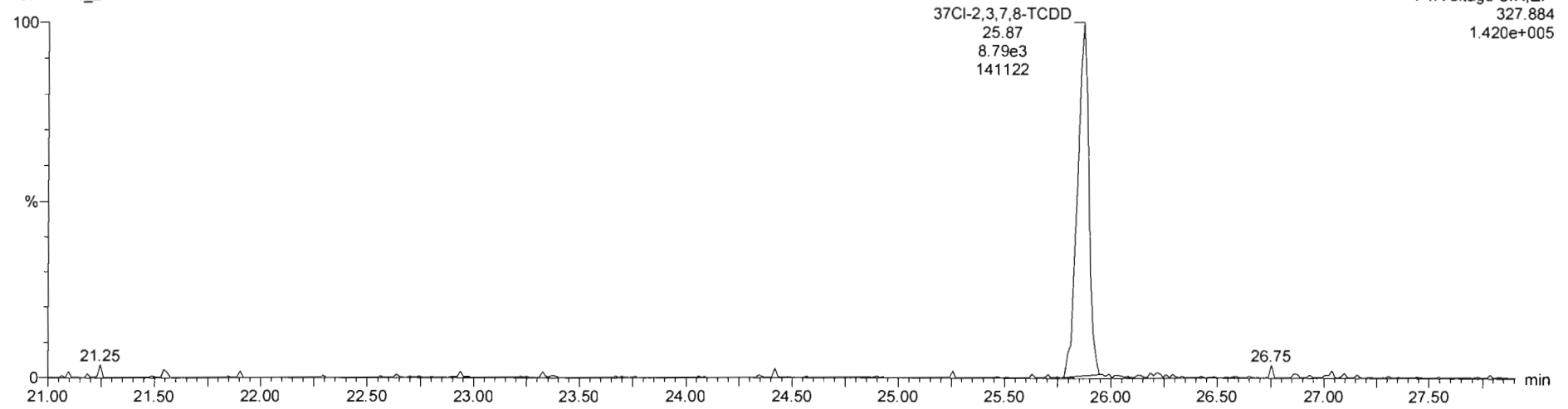
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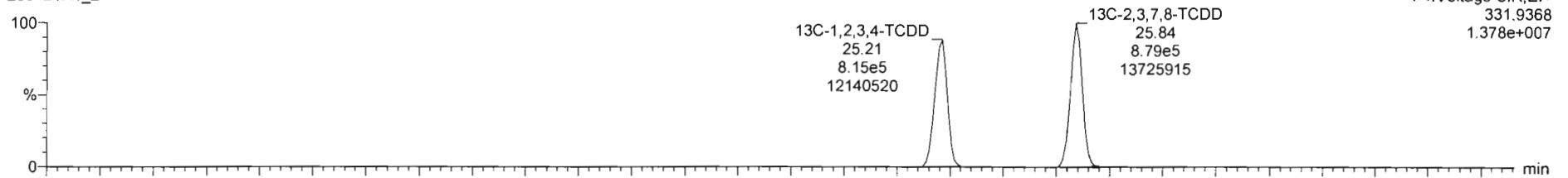
37Cl-2,3,7,8-TCDD

200121R1_2

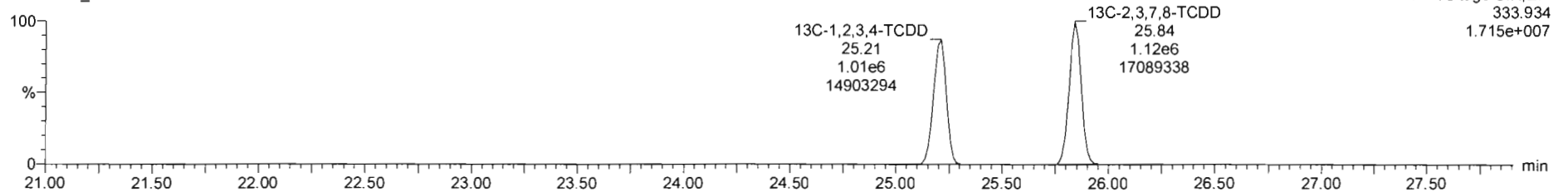


13C-1,2,3,4-TCDD

200121R1_2



200121R1_2



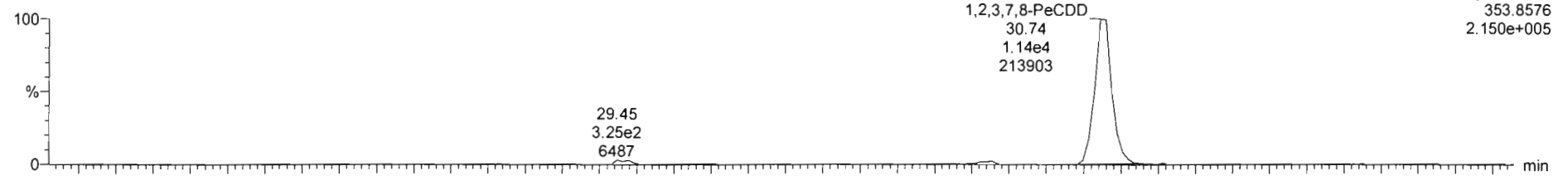
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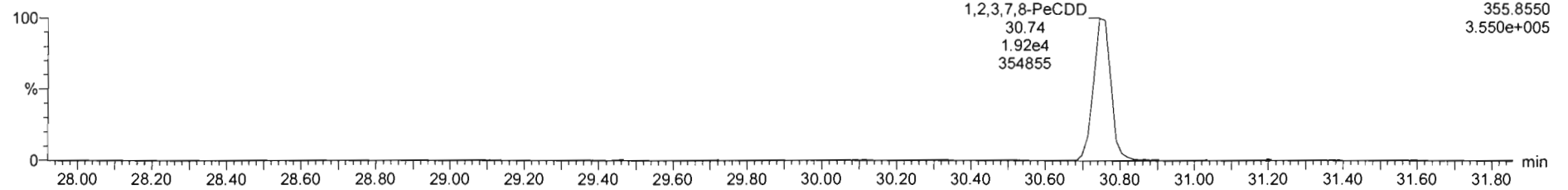
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1,2,3,7,8-PeCDD

200121R1_2

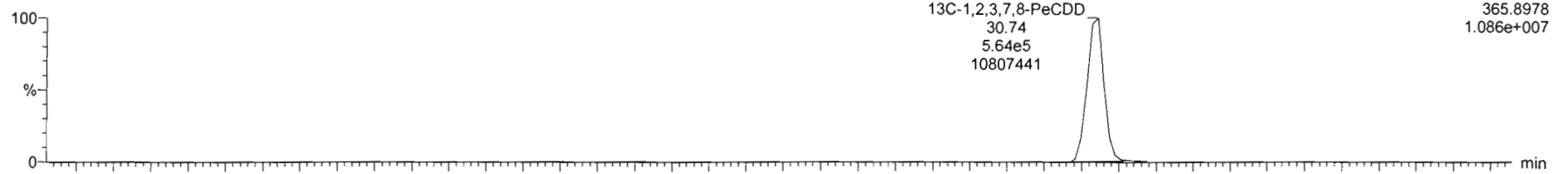


200121R1_2

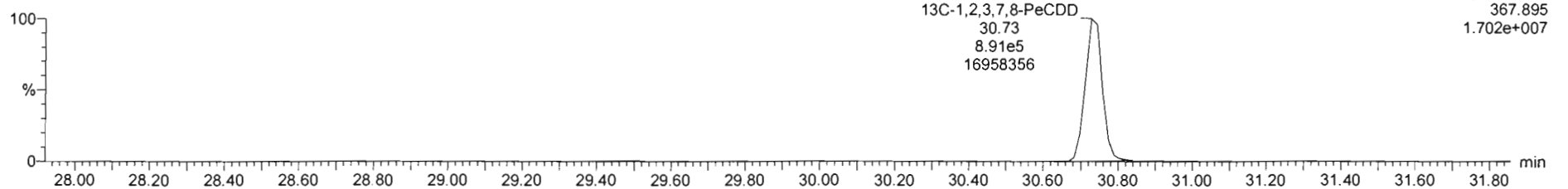


13C-1,2,3,7,8-PeCDD

200121R1_2



200121R1_2



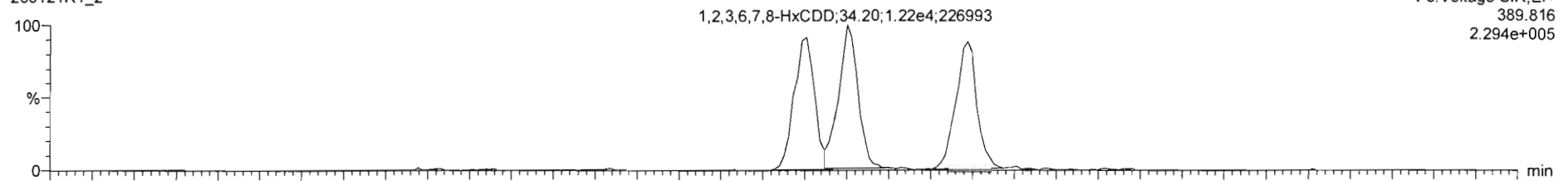
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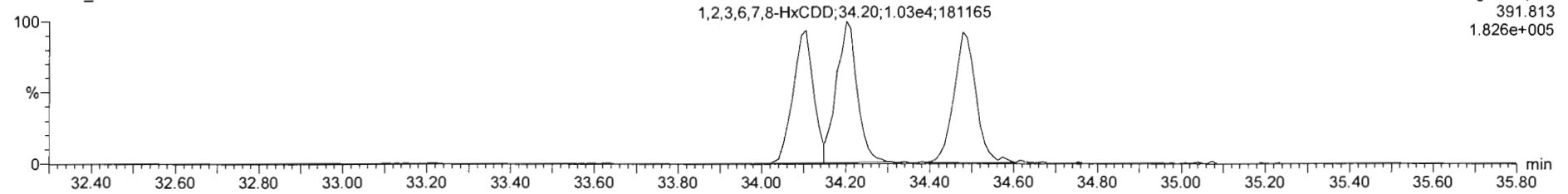
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1,2,3,4,7,8-HxCDD

200121R1_2

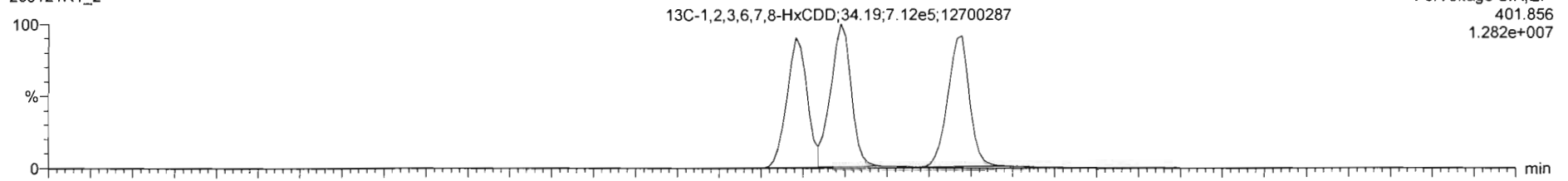


200121R1_2

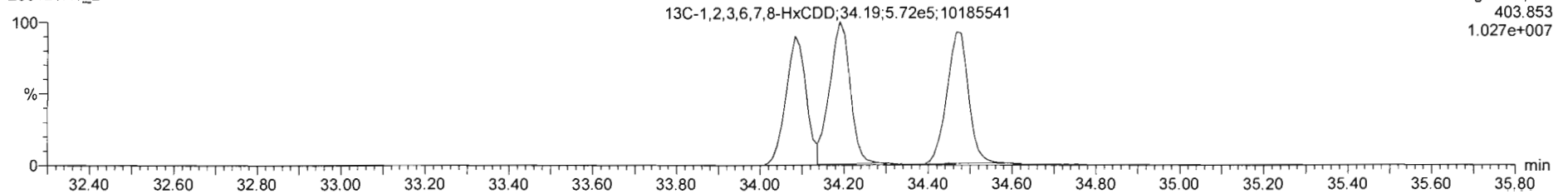


13C-1,2,3,4,7,8-HxCDD

200121R1_2



200121R1_2



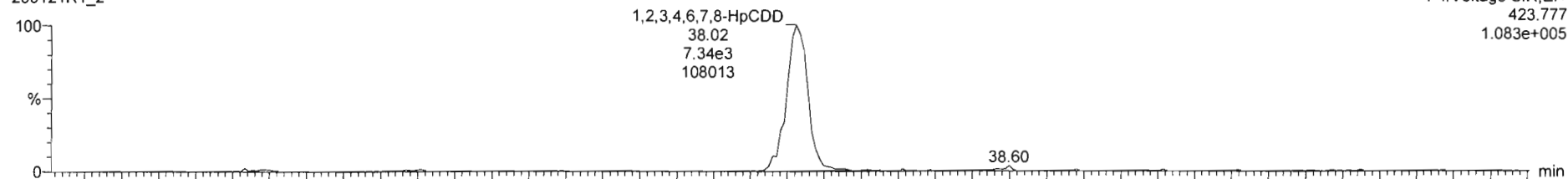
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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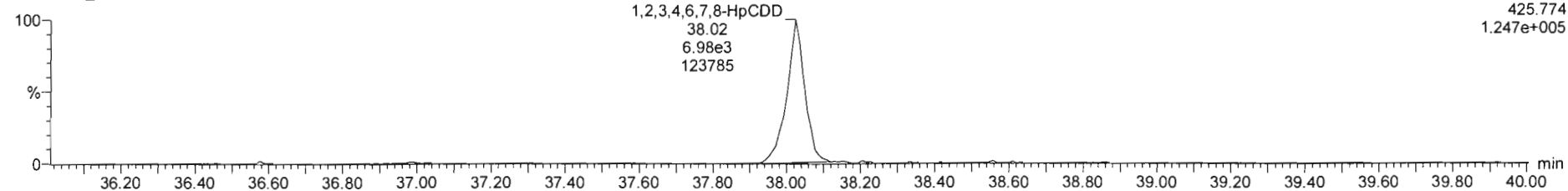
1,2,3,4,6,7,8-HpCDD

200121R1_2



F4: Voltage SIR, EI+
423.777
1.083e+005

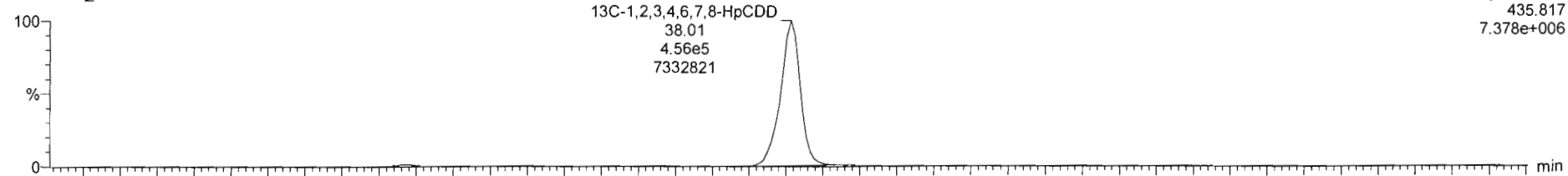
200121R1_2



F4: Voltage SIR, EI+
425.774
1.247e+005

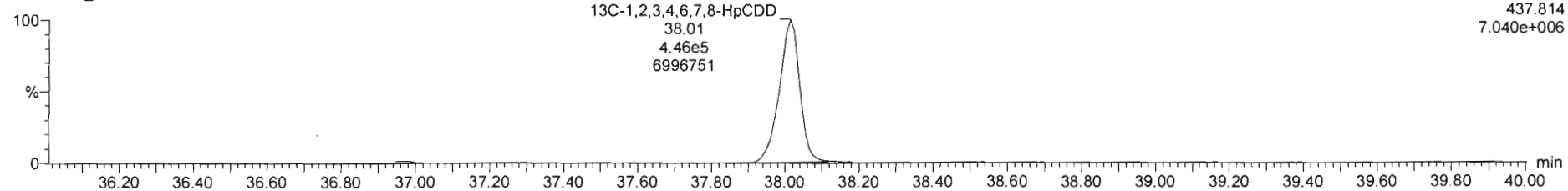
13C-1,2,3,4,6,7,8-HpCDD

200121R1_2



F4: Voltage SIR, EI+
435.817
7.378e+006

200121R1_2



F4: Voltage SIR, EI+
437.814
7.040e+006

Dataset: Untitled

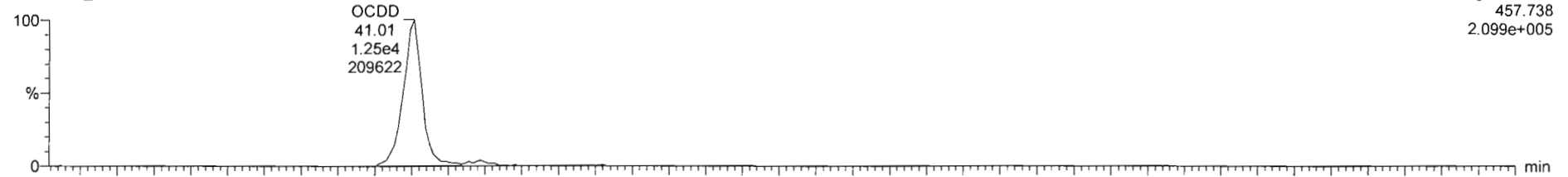
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

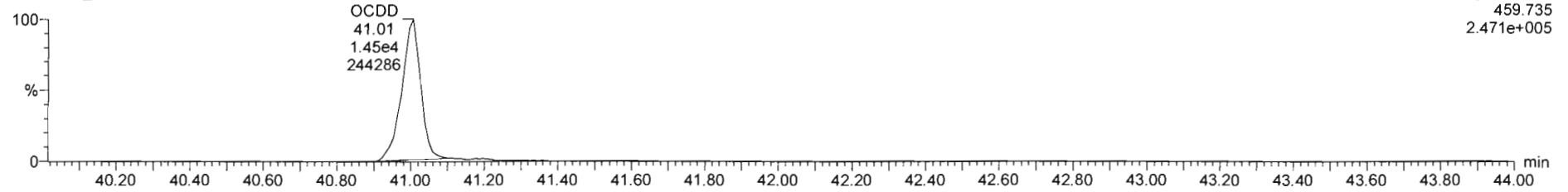
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OCDD

200121R1_2

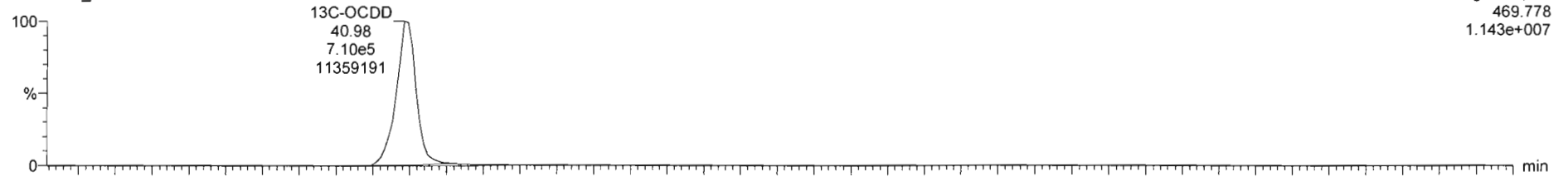


200121R1_2

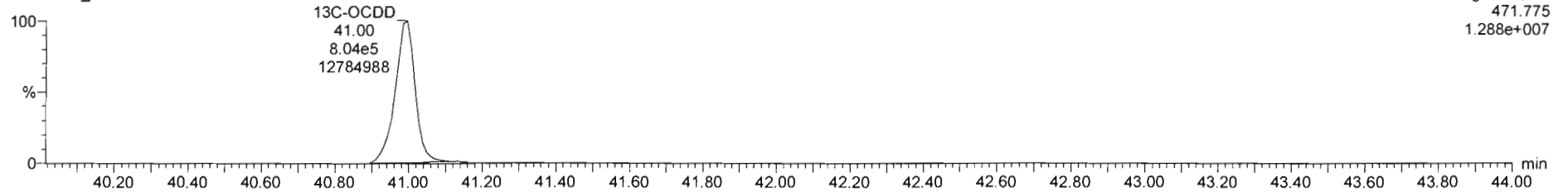


13C-OCDD

200121R1_2



200121R1_2



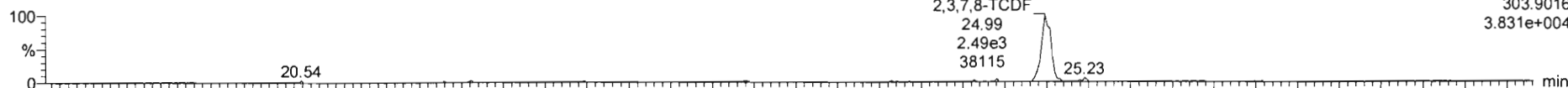
Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Name: 200121R1_2, Date: 21-Jan-2020, Time: 14:58:26, ID: ST200121R1_2 1613 CS1 19C2202, Description: 1613 CS1 19C2202

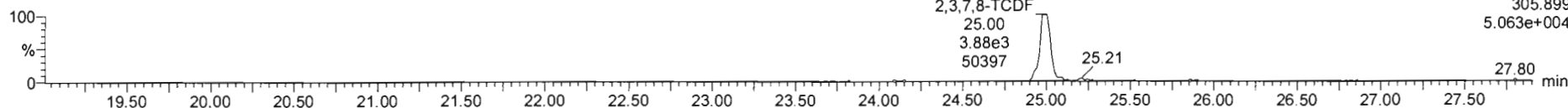
2,3,7,8-TCDF

200121R1_2



F1: Voltage SIR, EI+
303.9016
3.831e+004

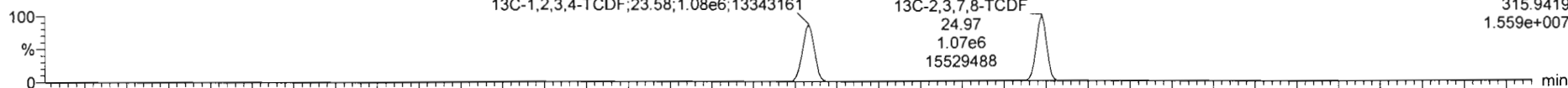
200121R1_2



F1: Voltage SIR, EI+
305.899
5.063e+004

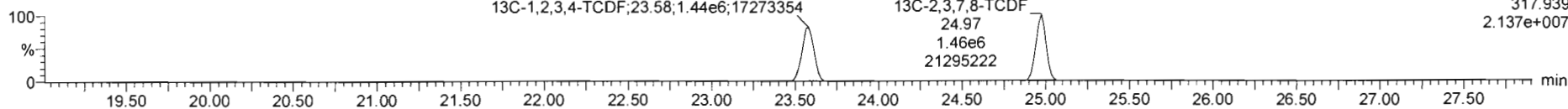
13C-2,3,7,8-TCDF

200121R1_2



F1: Voltage SIR, EI+
315.9419
1.559e+007

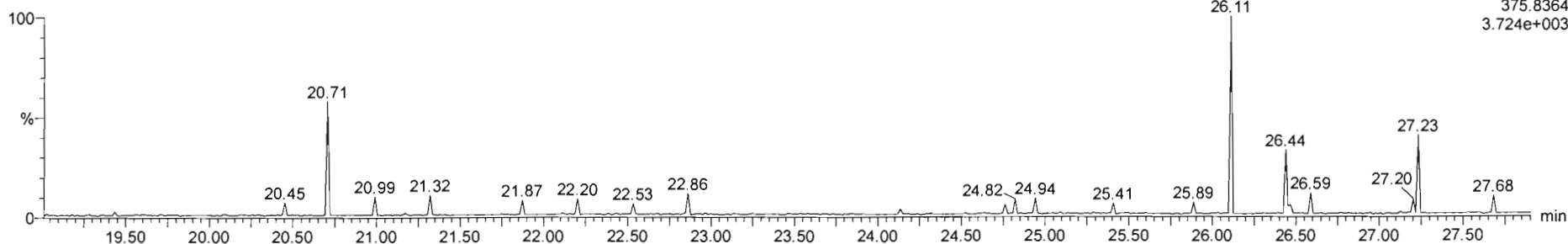
200121R1_2



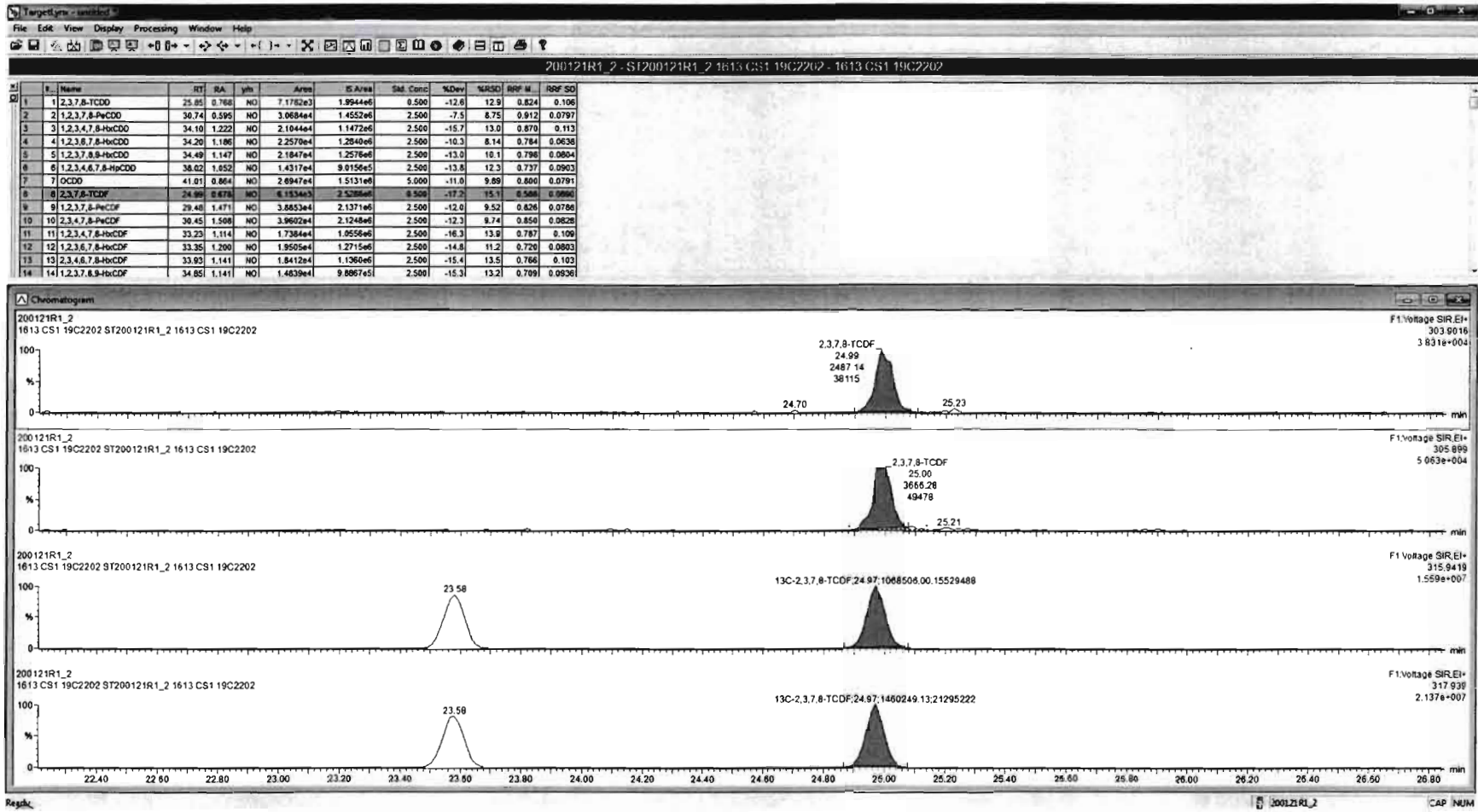
F1: Voltage SIR, EI+
317.939
2.137e+007

DPE1

200121R1_2



F1: Voltage SIR, EI+
375.8364
3.724e+003



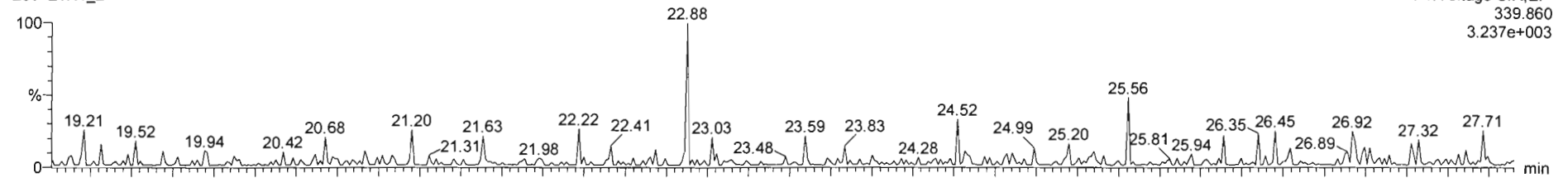
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

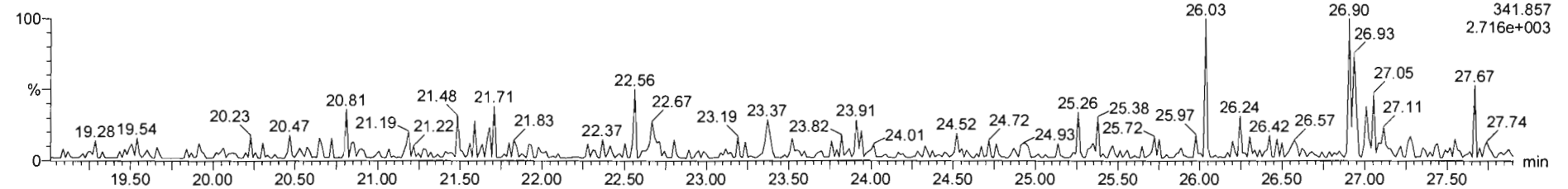
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1st Func. Penta-Furans

200121R1_2

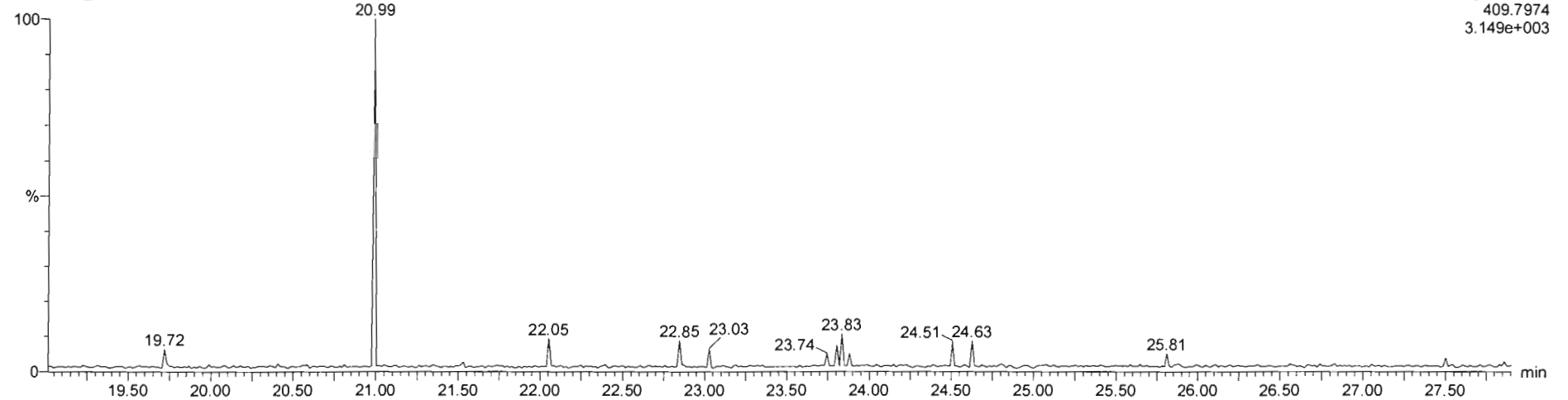


200121R1_2



DPE6

200121R1_2



Dataset: Untitled

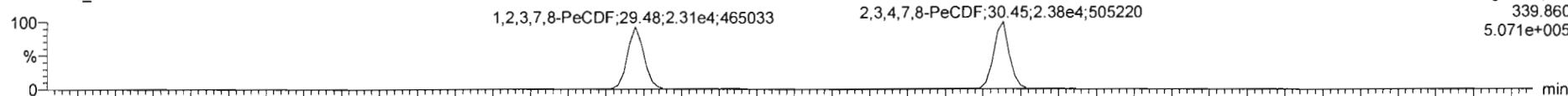
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1,2,3,7,8-PeCDF

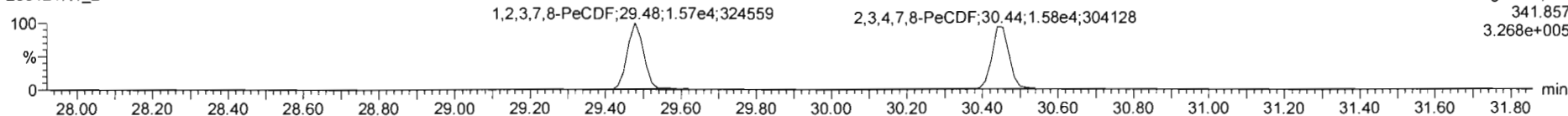
200121R1_2

F2: Voltage SIR, EI+
339.860
5.071e+005



200121R1_2

F2: Voltage SIR, EI+
341.857
3.268e+005



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

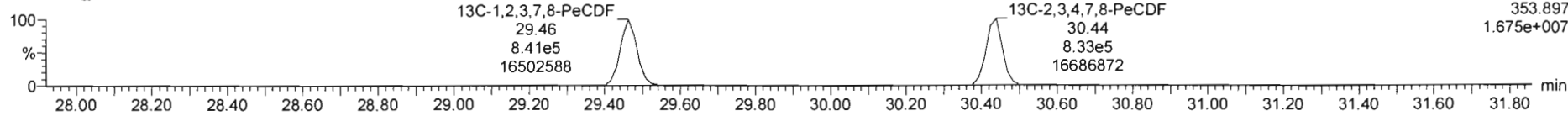
200121R1_2

F2: Voltage SIR, EI+
351.900
2.647e+007



200121R1_2

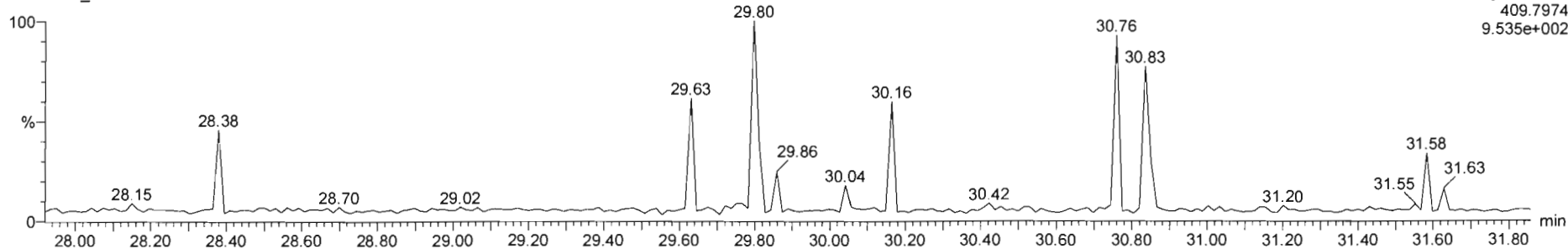
F2: Voltage SIR, EI+
353.897
1.675e+007



DPE2

200121R1_2

F2: Voltage SIR, EI+
409.7974
9.535e+002



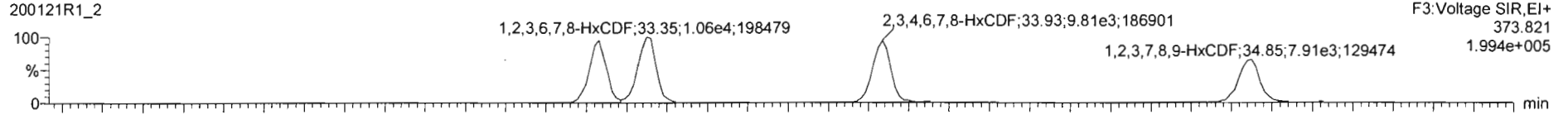
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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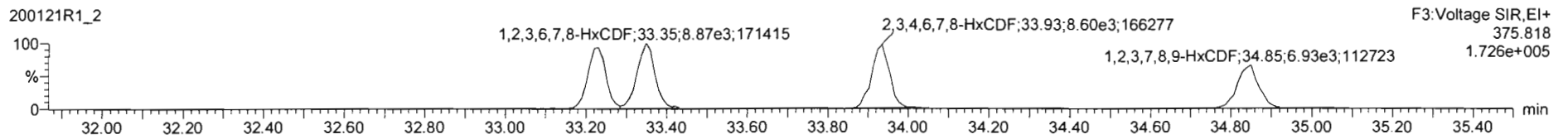
1,2,3,4,7,8-HxCDF

200121R1_2



F3:Voltage SIR,EI+
373.821
1.994e+005

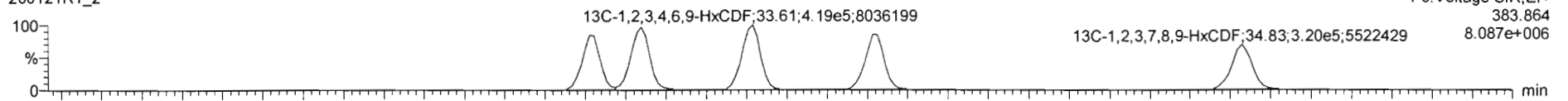
200121R1_2



F3:Voltage SIR,EI+
375.818
1.726e+005

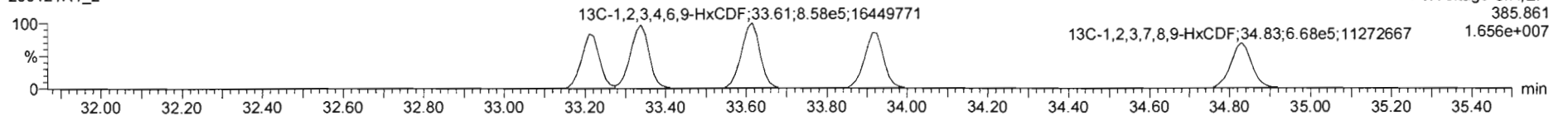
13C-1,2,3,4,7,8-HxCDF

200121R1_2



F3:Voltage SIR,EI+
383.864
8.087e+006

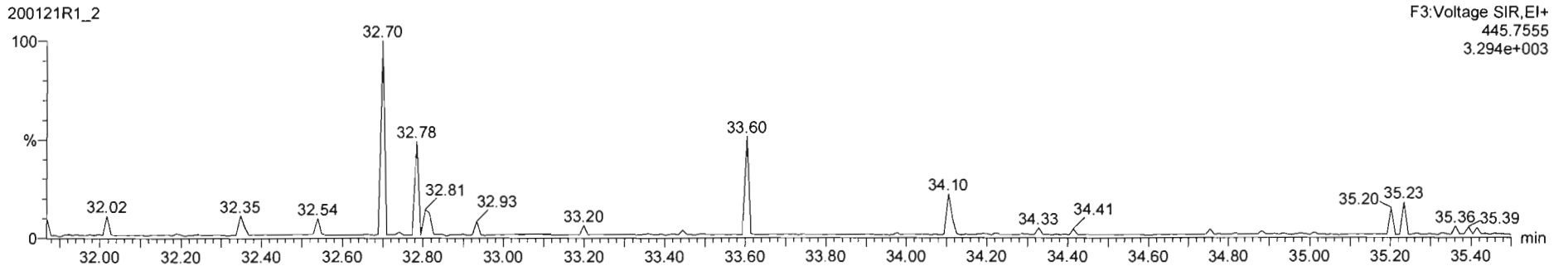
200121R1_2



F3:Voltage SIR,EI+
385.861
1.656e+007

DPE3

200121R1_2



F3:Voltage SIR,EI+
445.7555
3.294e+003

Dataset: Untitled

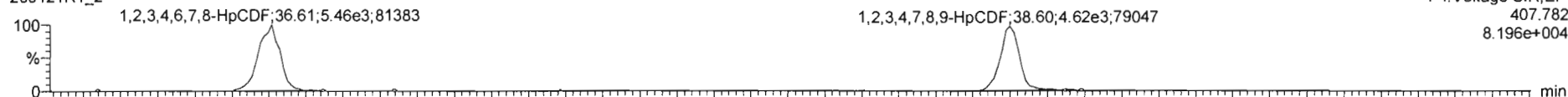
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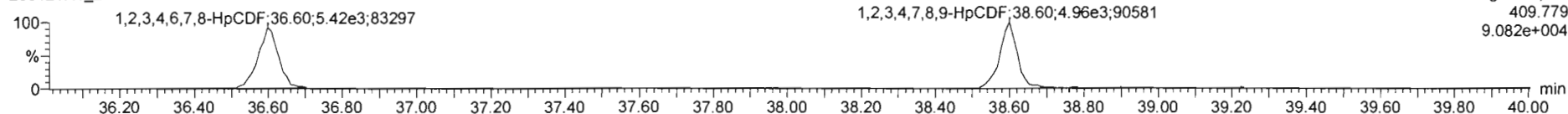
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1,2,3,4,6,7,8-HpCDF

200121R1_2

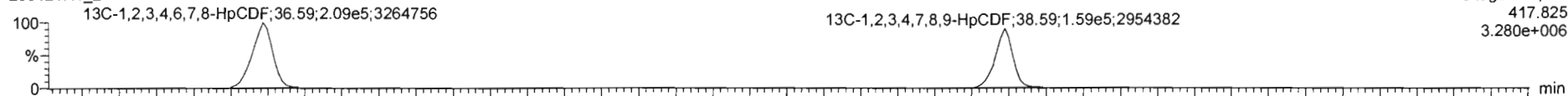


200121R1_2

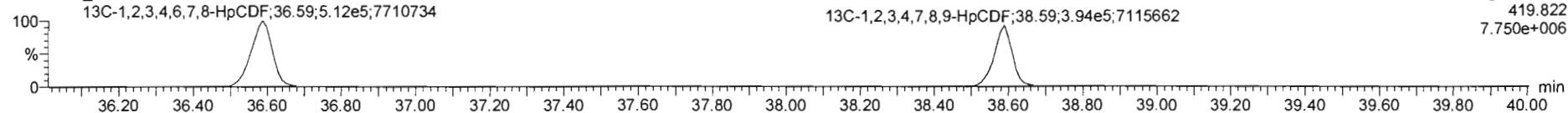


13C-1,2,3,4,6,7,8-HpCDF

200121R1_2

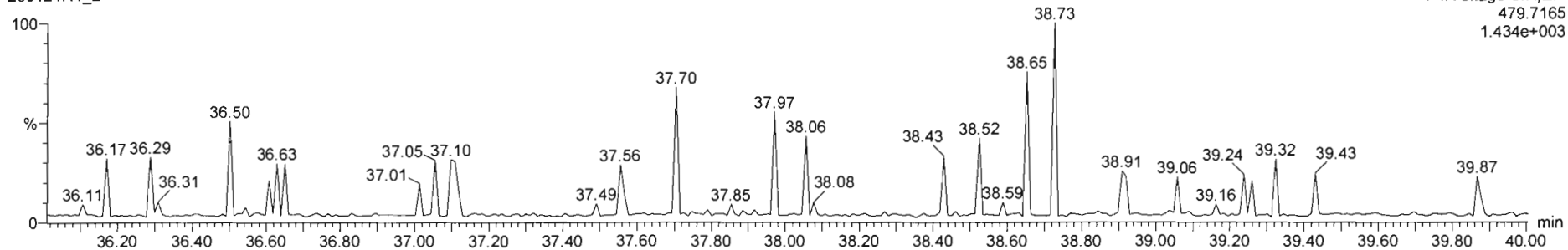


200121R1_2



DPE4

200121R1_2



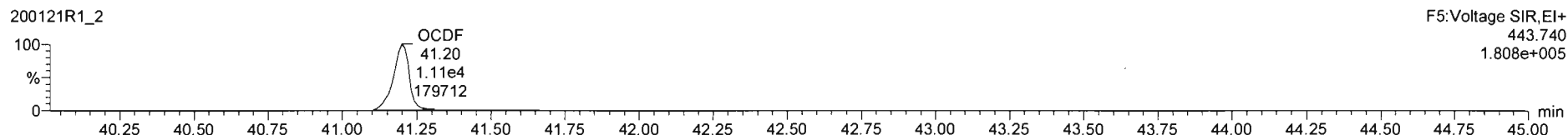
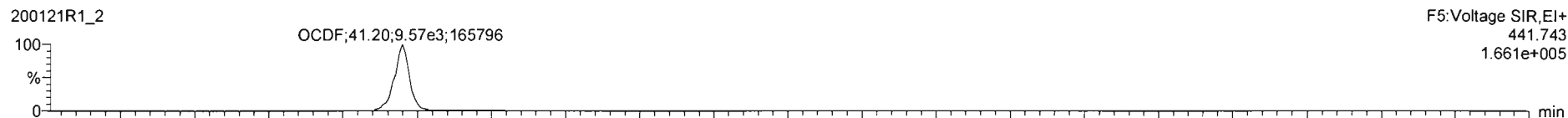
Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time

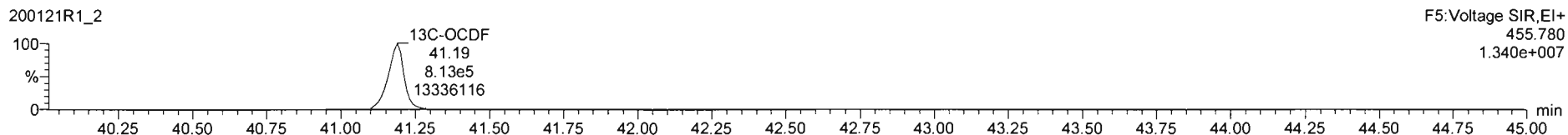
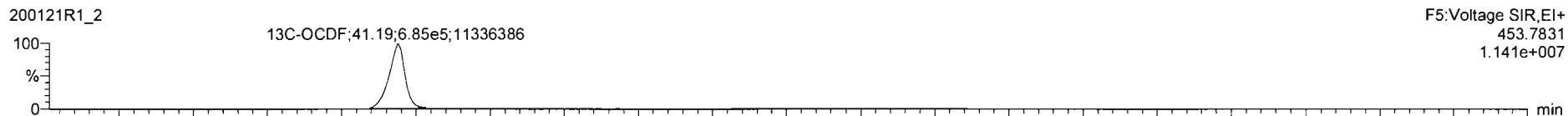
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Name: 200121R1_2, Date: 21-Jan-2020, Time: 14:58:26, ID: ST200121R1_2 1613 CS1 19C2202, Description: 1613 CS1 19C2202

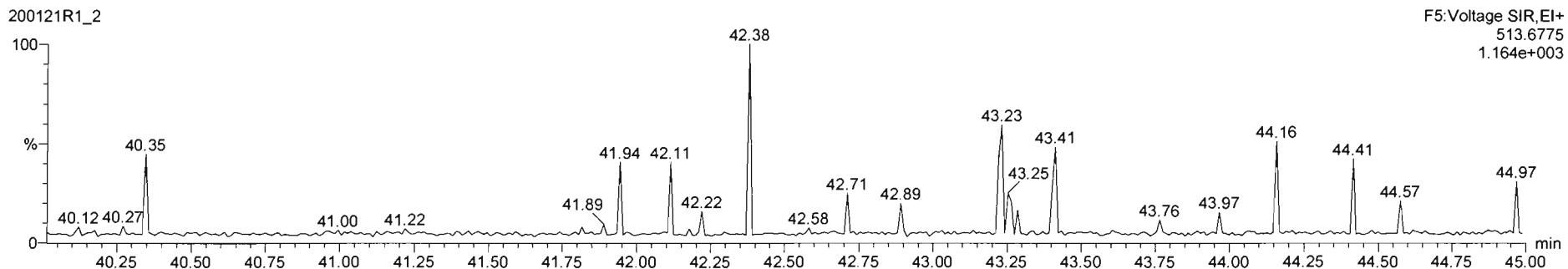
OCDF



13C-OCDF



DPE5

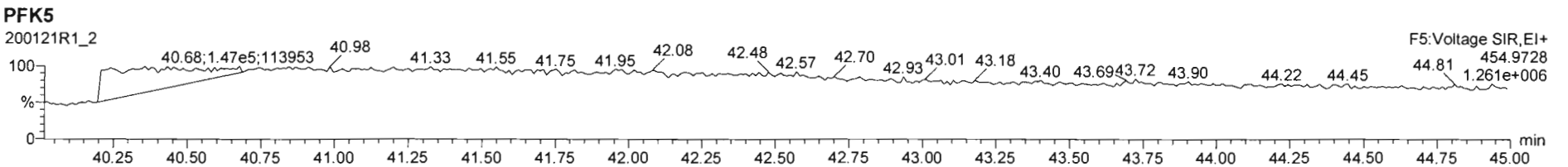
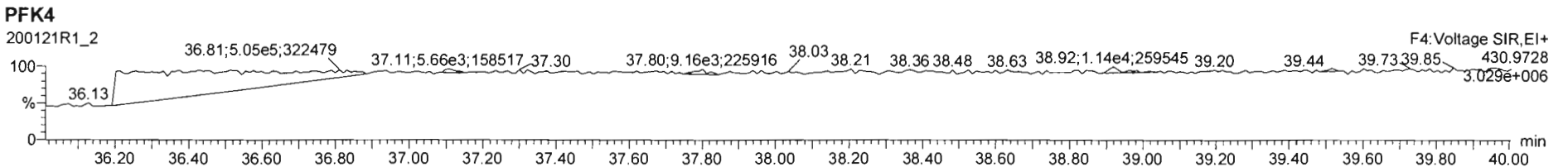
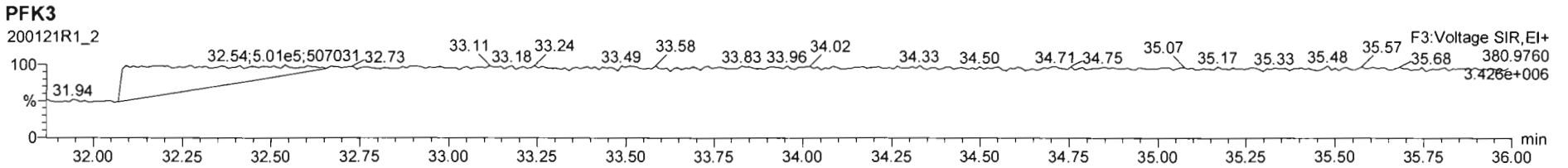
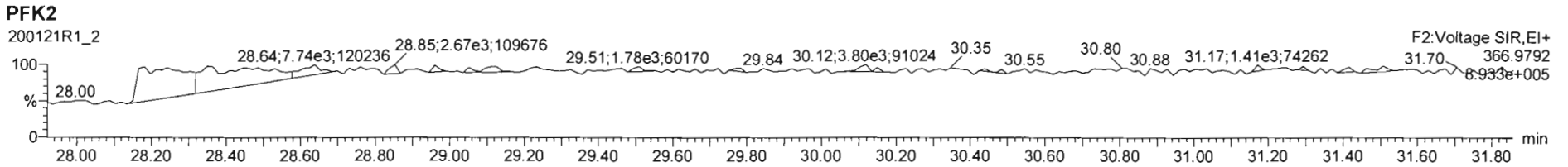
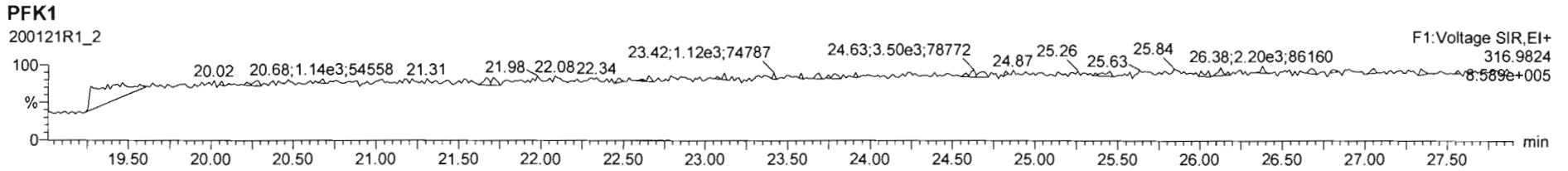


Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time

Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Name: 200121R1_2, Date: 21-Jan-2020, Time: 14:58:26, ID: ST200121R1_2 1613 CS1 19C2202, Description: 1613 CS1 19C2202



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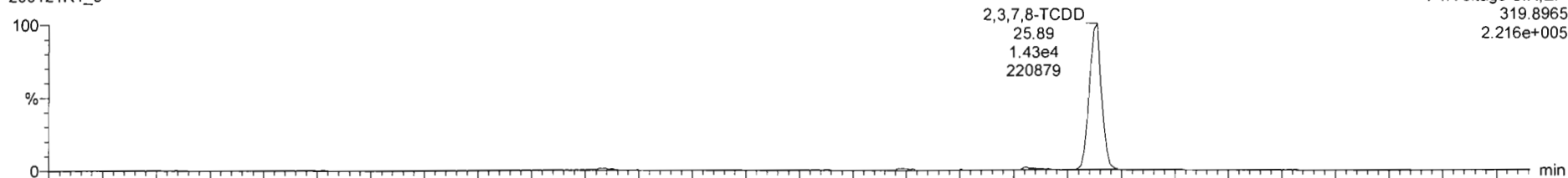
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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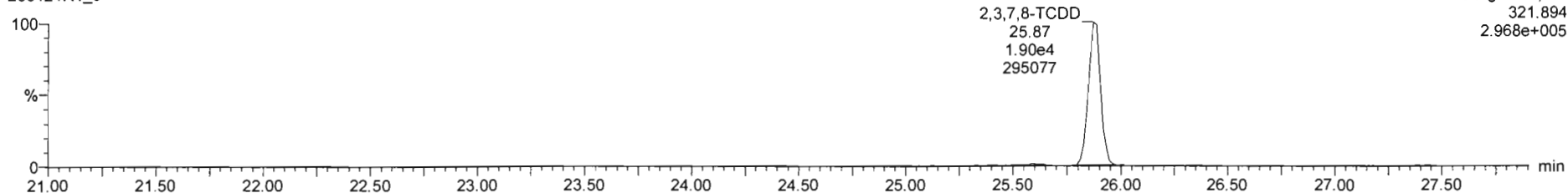
2,3,7,8-TCDD

200121R1_3



F1:Voltage SIR,EI+
319.8965
2.216e+005

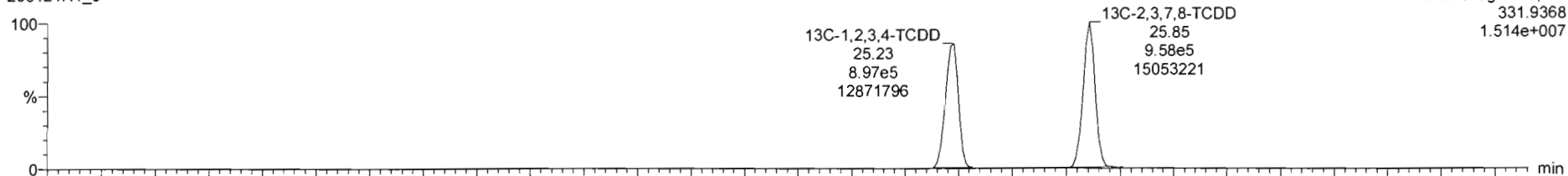
200121R1_3



F1:Voltage SIR,EI+
321.894
2.968e+005

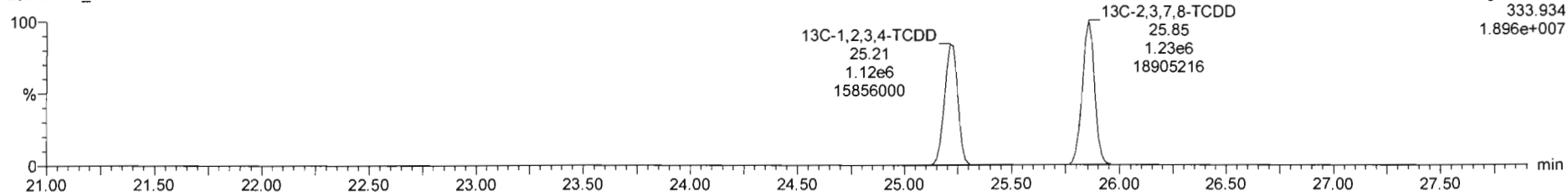
13C-2,3,7,8-TCDD

200121R1_3



F1:Voltage SIR,EI+
331.9368
1.514e+007

200121R1_3



F1:Voltage SIR,EI+
333.934
1.896e+007

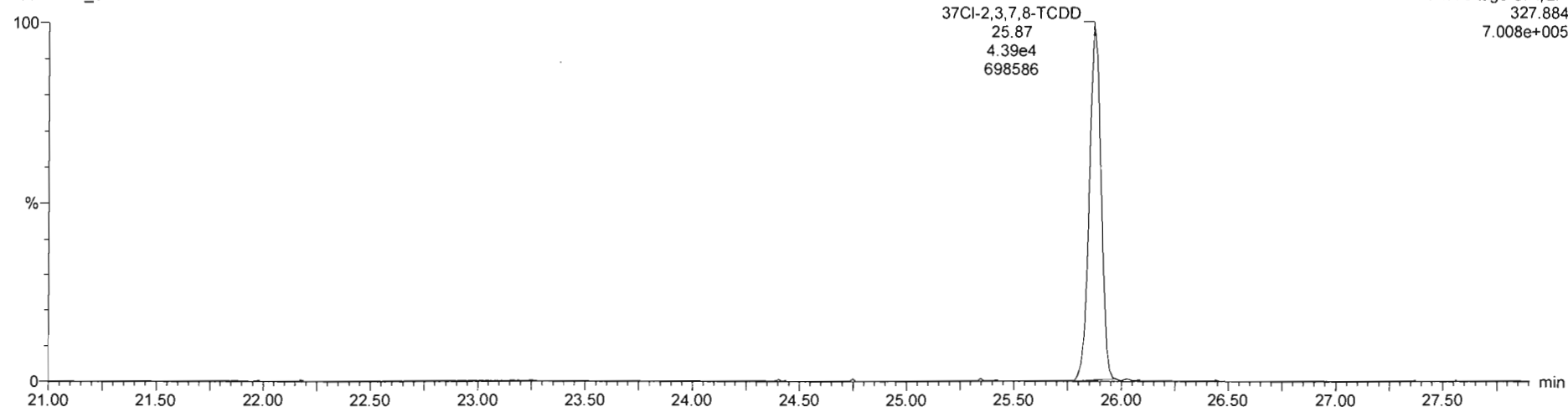
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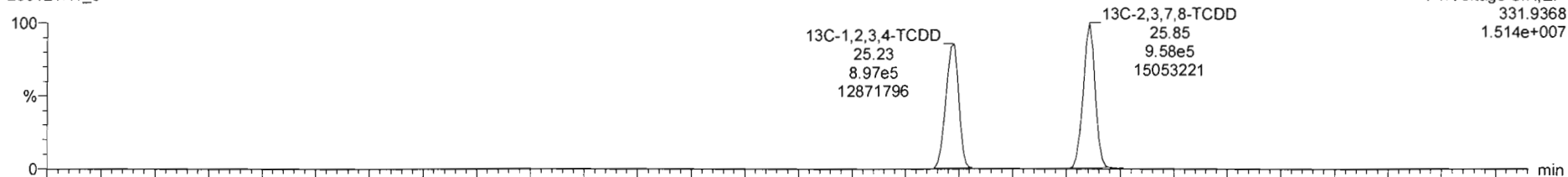
37Cl-2,3,7,8-TCDD

200121R1_3

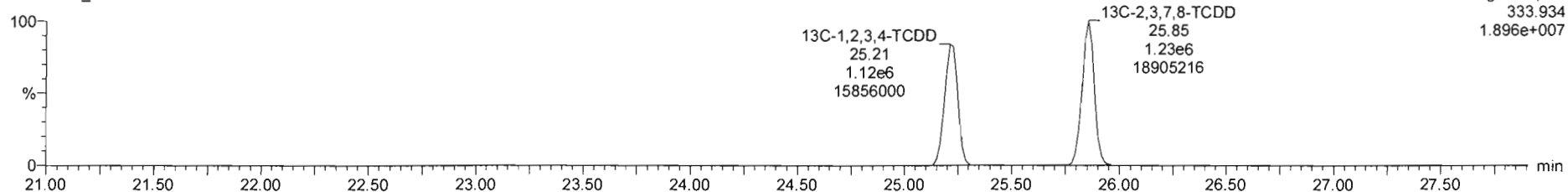


13C-1,2,3,4-TCDD

200121R1_3



200121R1_3



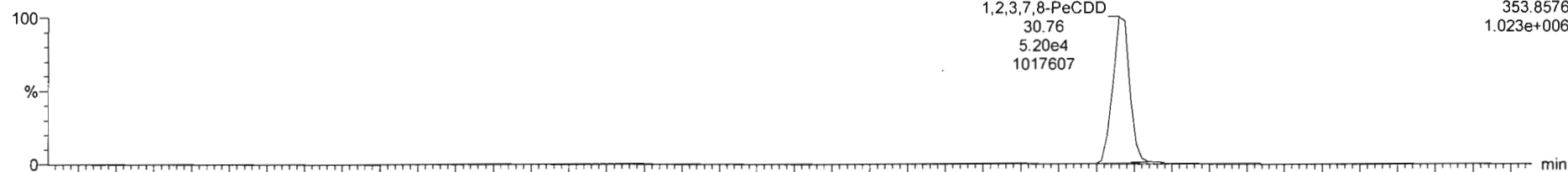
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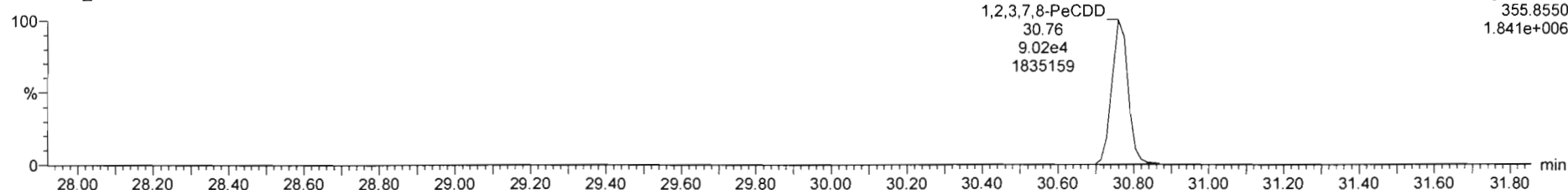
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1,2,3,7,8-PeCDD

200121R1_3



200121R1_3

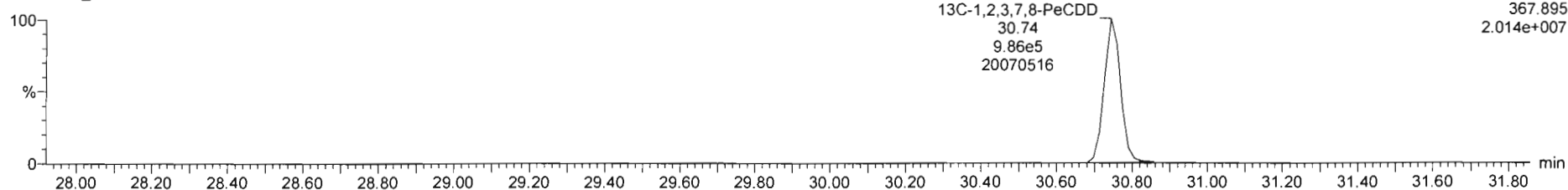


13C-1,2,3,7,8-PeCDD

200121R1_3



200121R1_3



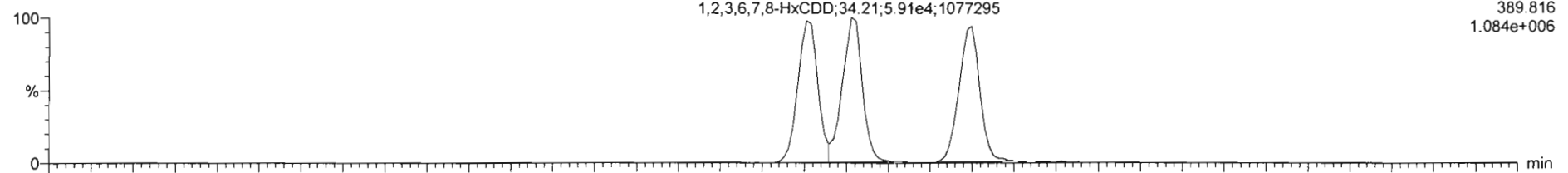
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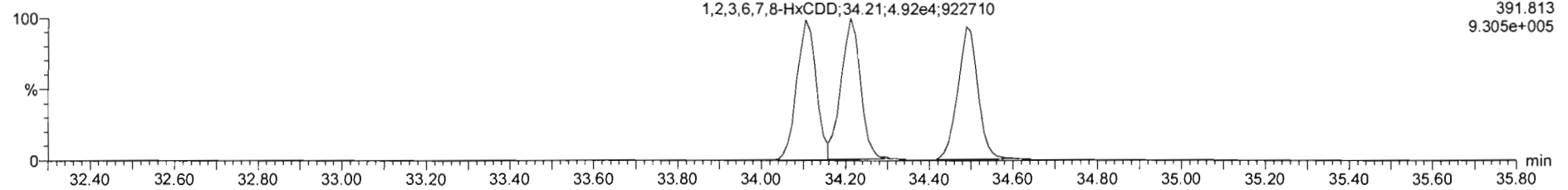
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1,2,3,4,7,8-HxCDD

200121R1_3

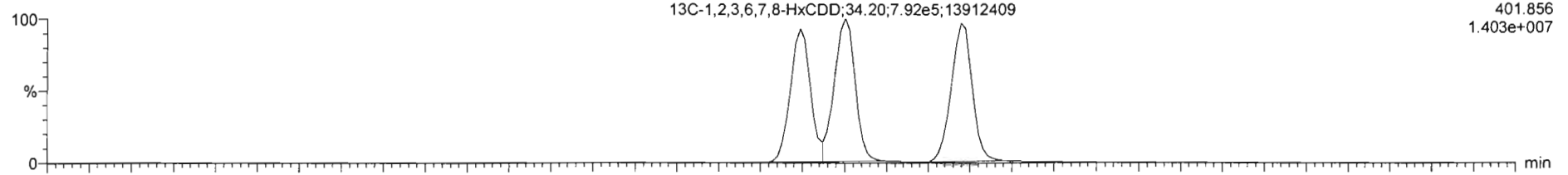


200121R1_3

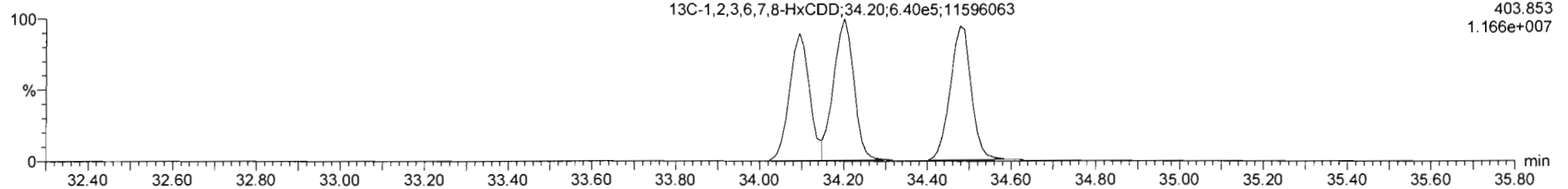


13C-1,2,3,4,7,8-HxCDD

200121R1_3



200121R1_3



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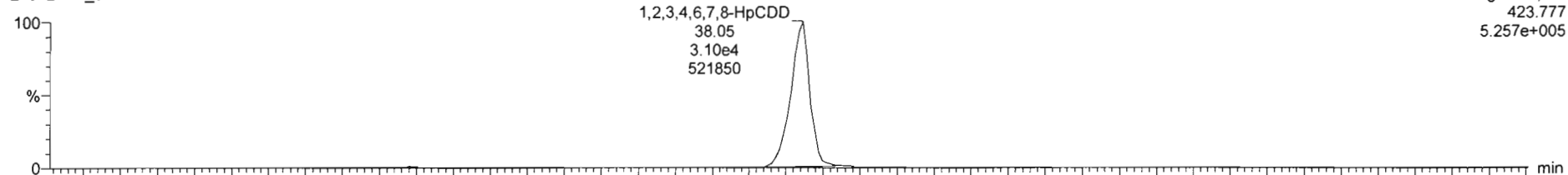
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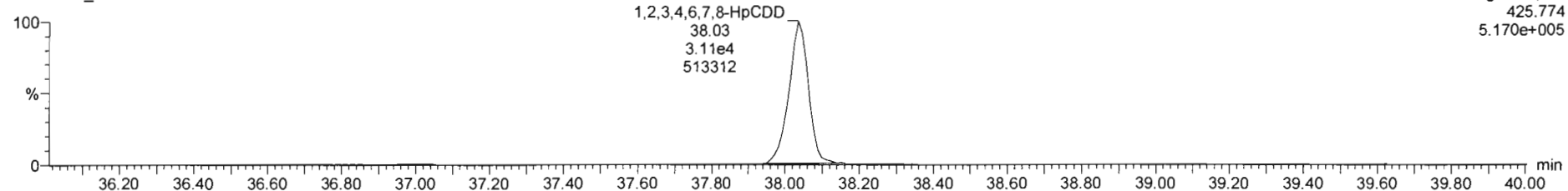
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1,2,3,4,6,7,8-HpCDD

200121R1_3

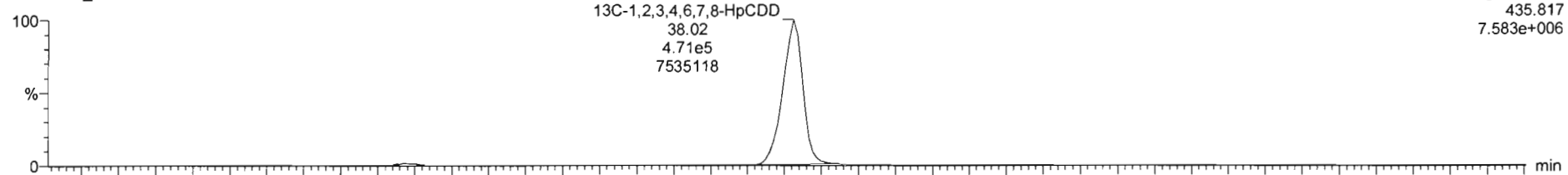


200121R1_3

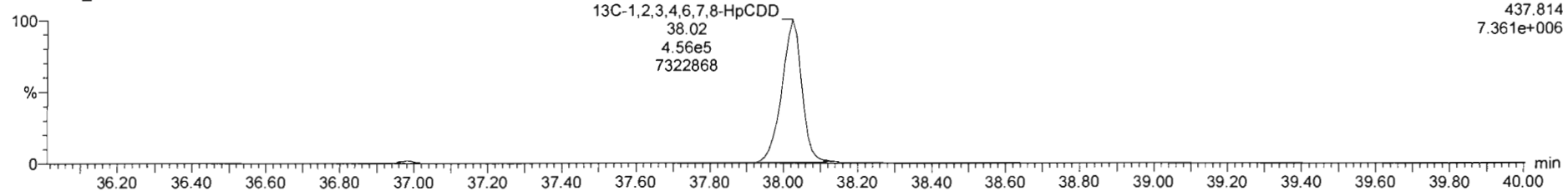


13C-1,2,3,4,6,7,8-HpCDD

200121R1_3



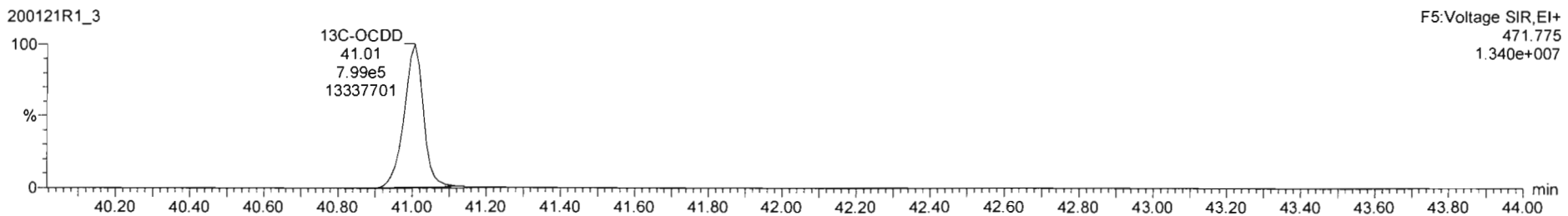
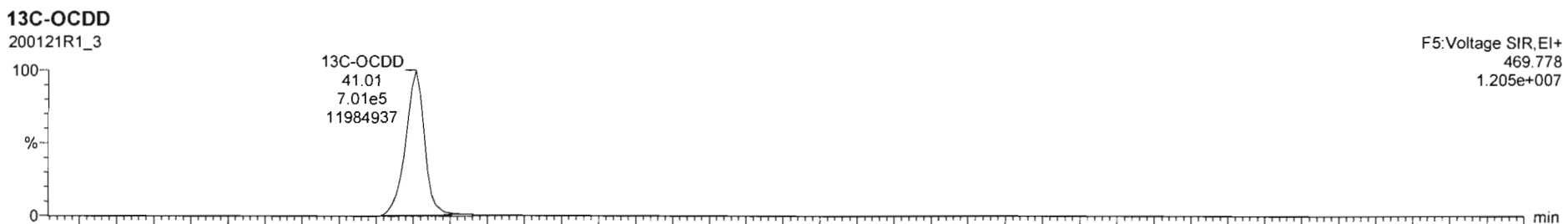
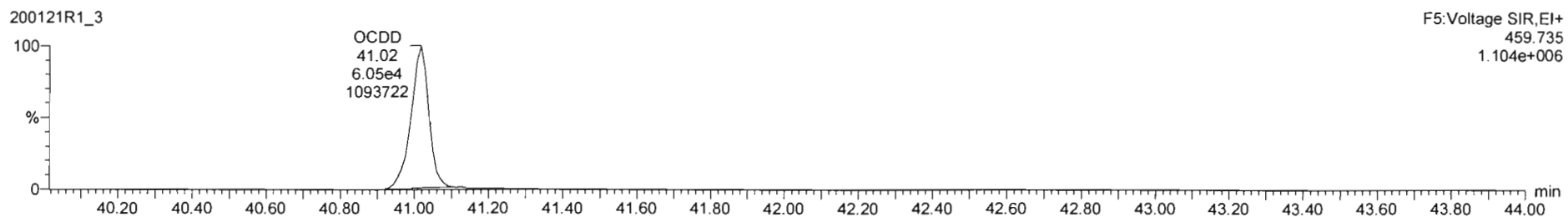
200121R1_3



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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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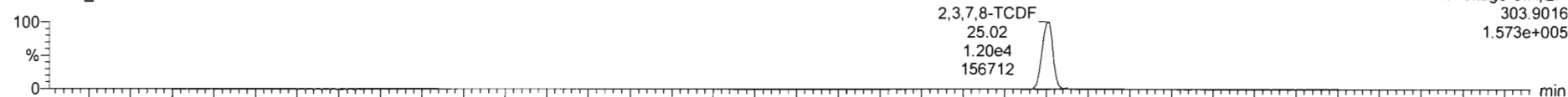
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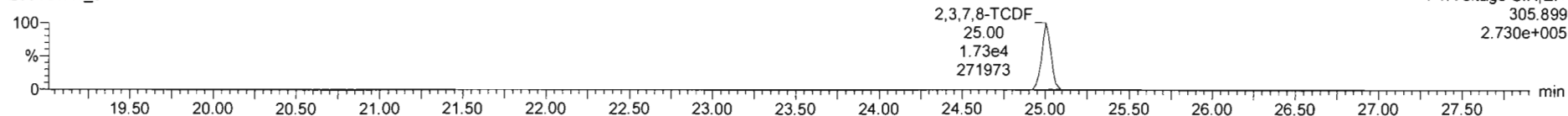
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2,3,7,8-TCDF

200121R1_3

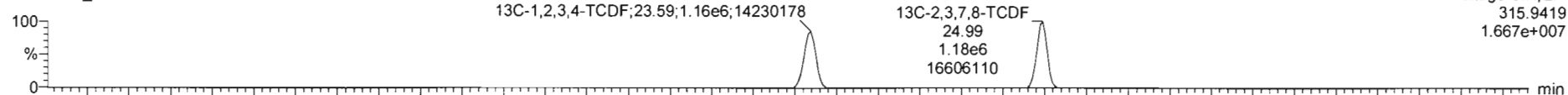


200121R1_3

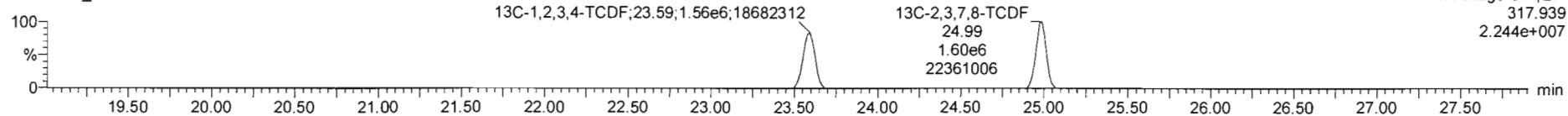


13C-2,3,7,8-TCDF

200121R1_3

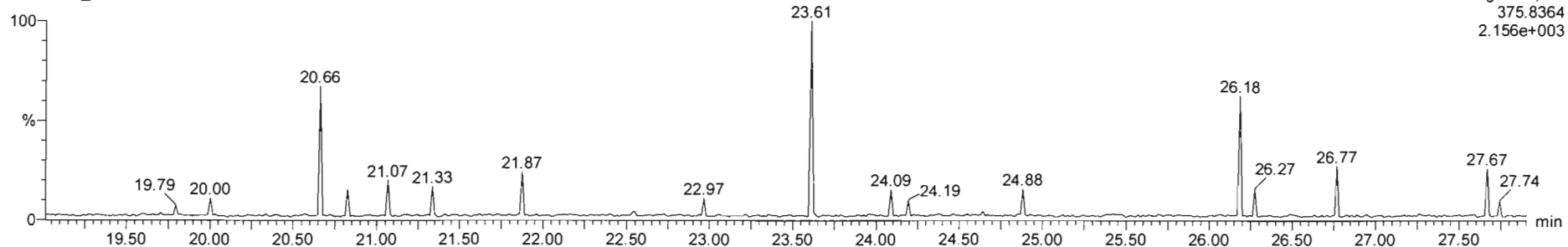


200121R1_3



DPE1

200121R1_3



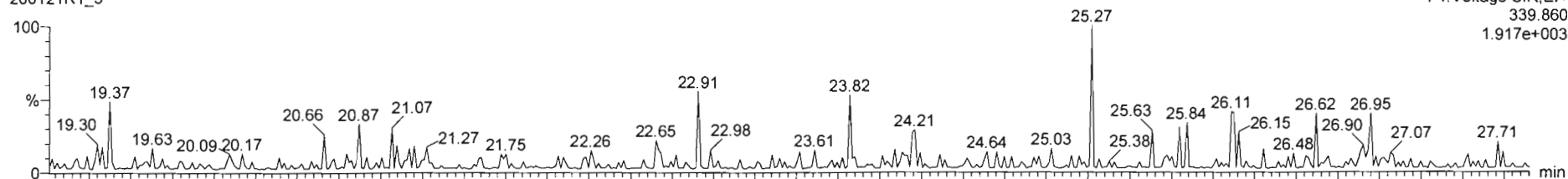
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

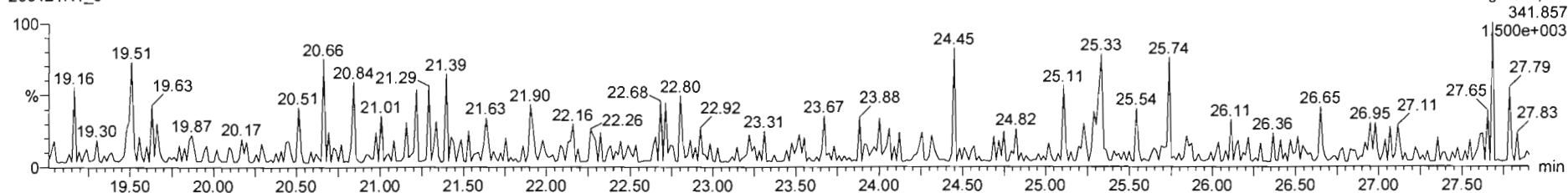
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1st Func. Penta-Furans

200121R1_3

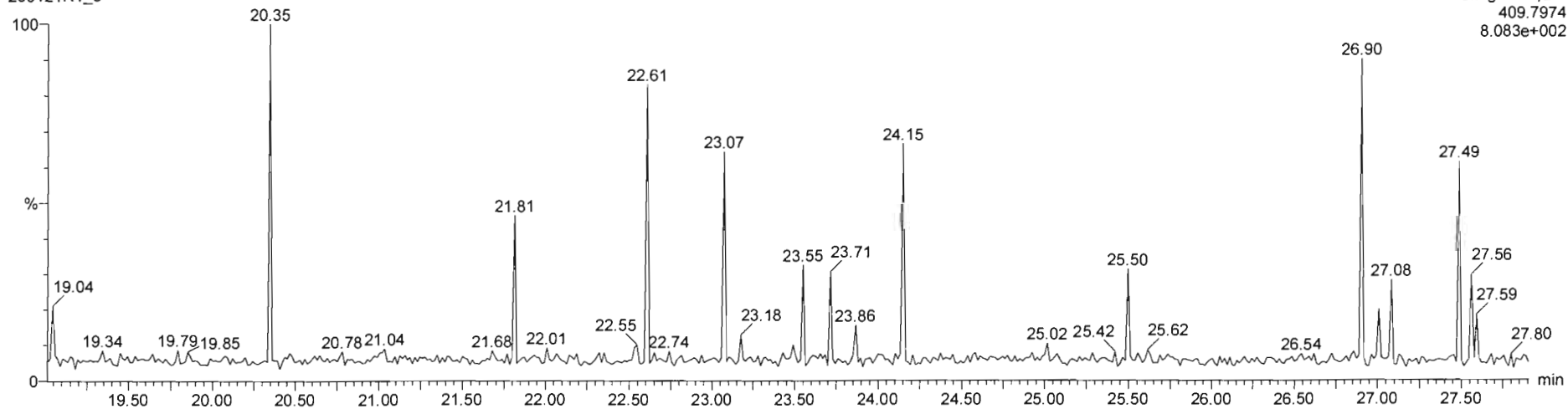


200121R1_3



DPE6

200121R1_3



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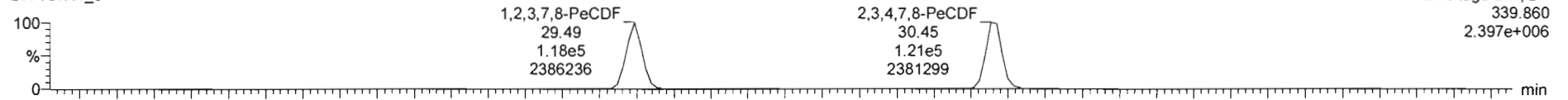
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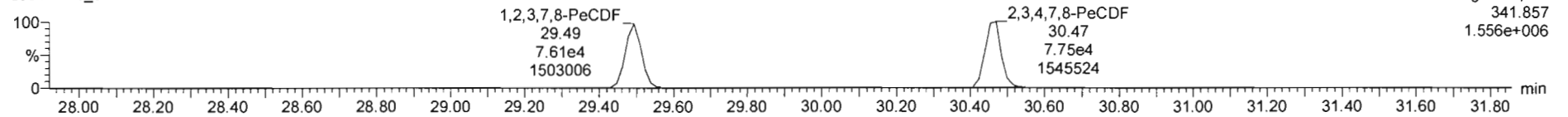
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1,2,3,7,8-PeCDF

200121R1_3

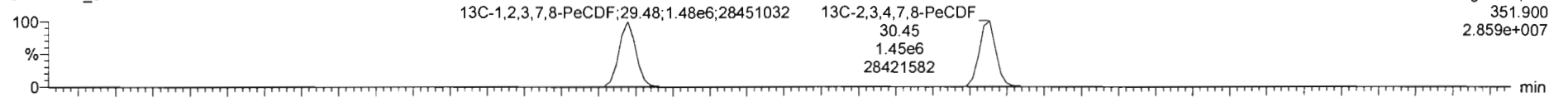


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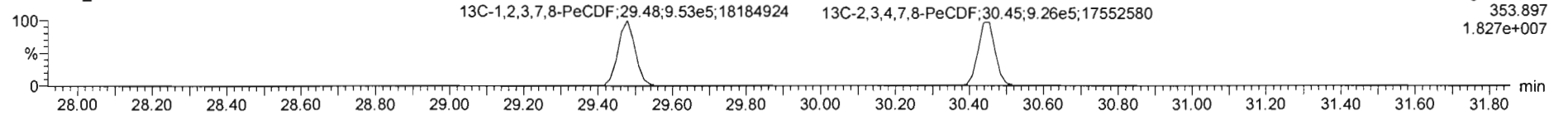


13C-1,2,3,7,8-PeCDF

200121R1_3

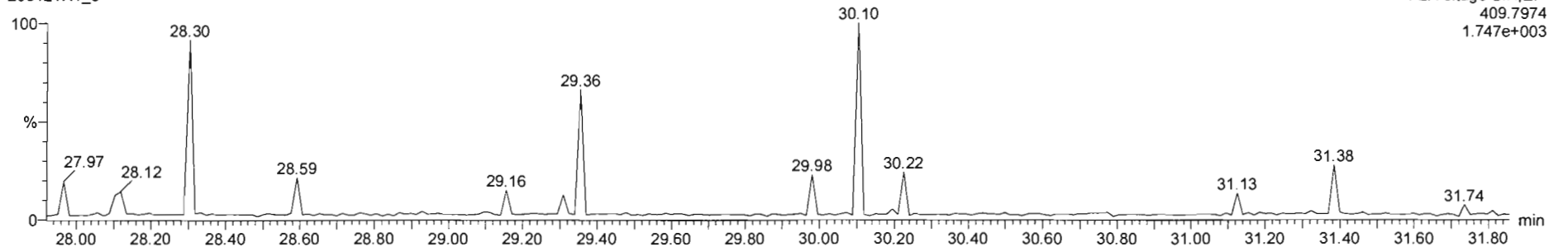


200121R1_3



DPE2

200121R1_3



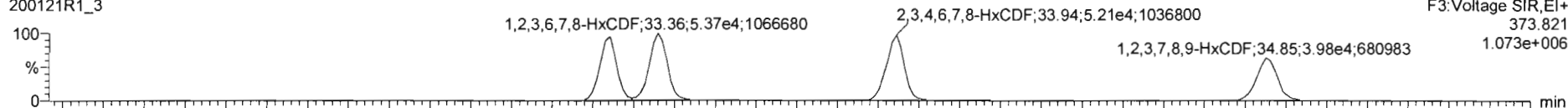
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

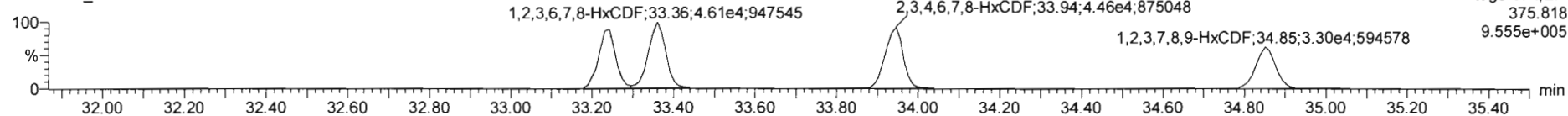
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1,2,3,4,7,8-HxCDF

200121R1_3

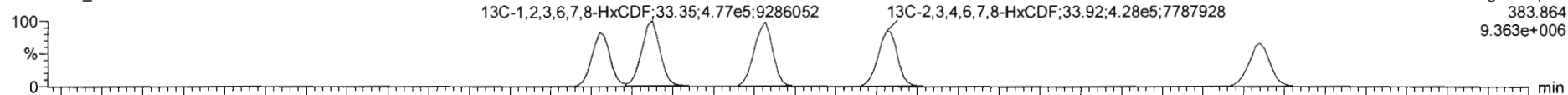


200121R1_3

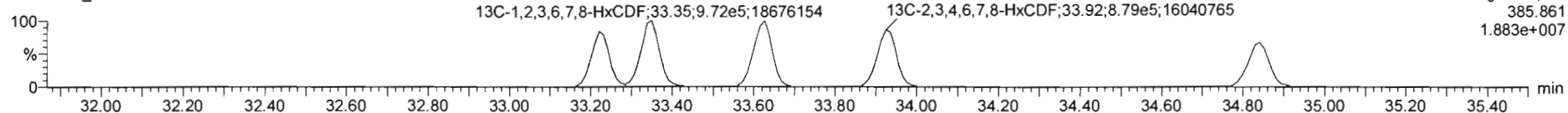


13C-1,2,3,4,7,8-HxCDF

200121R1_3

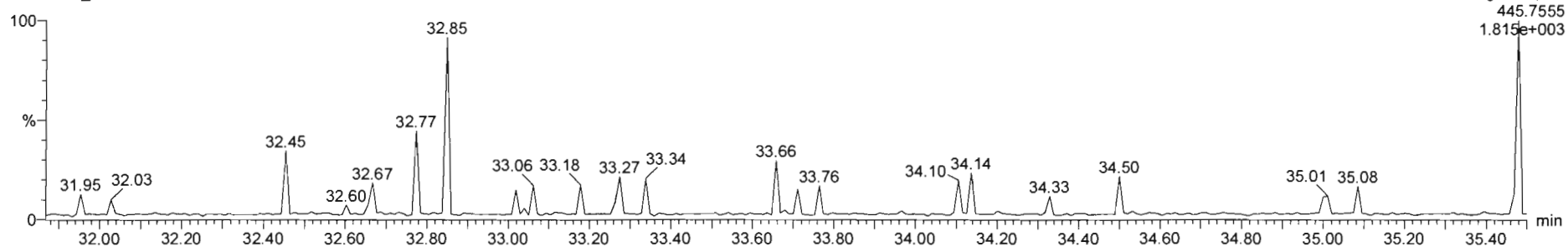


200121R1_3



DPE3

200121R1_3



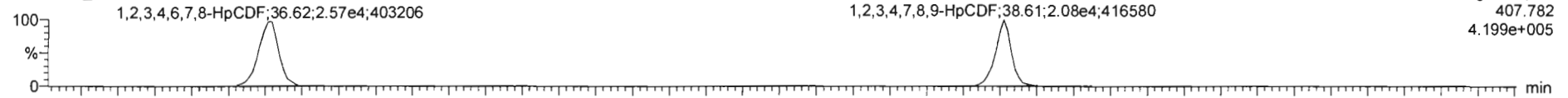
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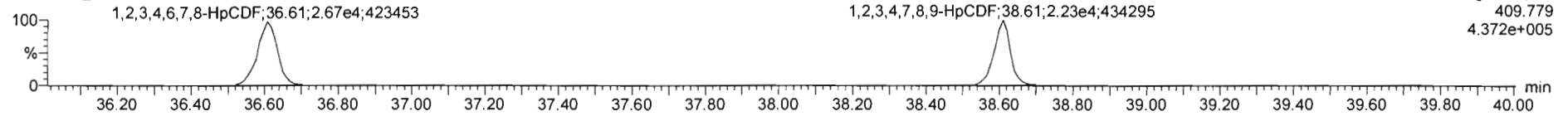
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1,2,3,4,6,7,8-HpCDF

200121R1_3

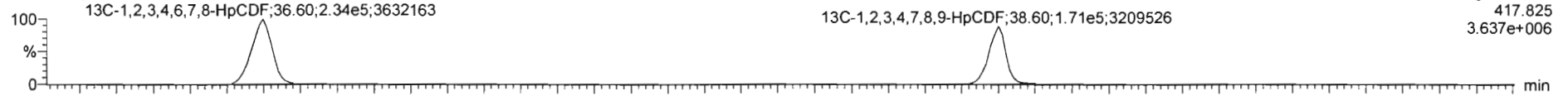


200121R1_3

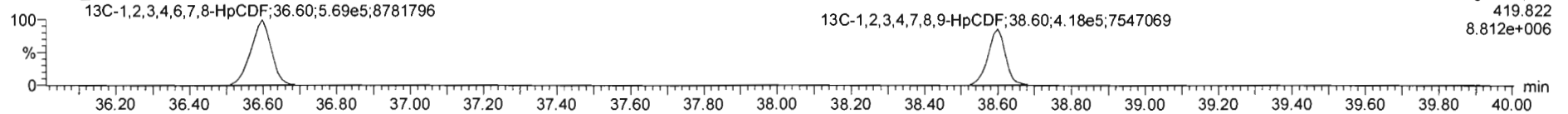


13C-1,2,3,4,6,7,8-HpCDF

200121R1_3

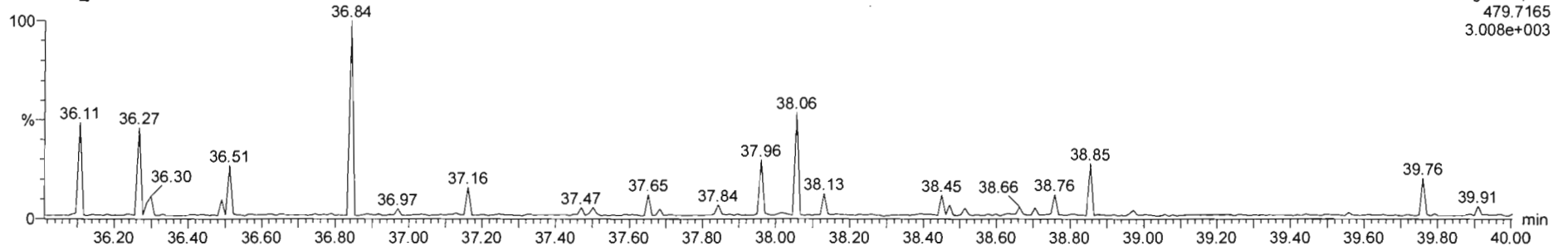


200121R1_3



DPE4

200121R1_3



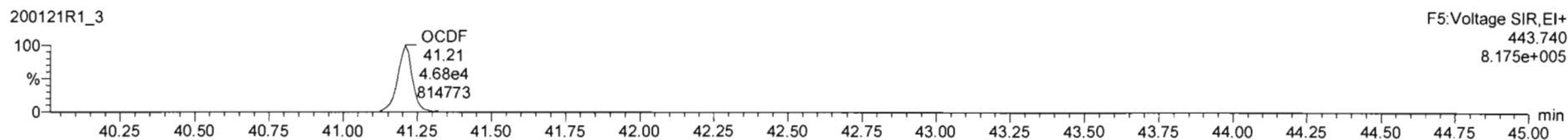
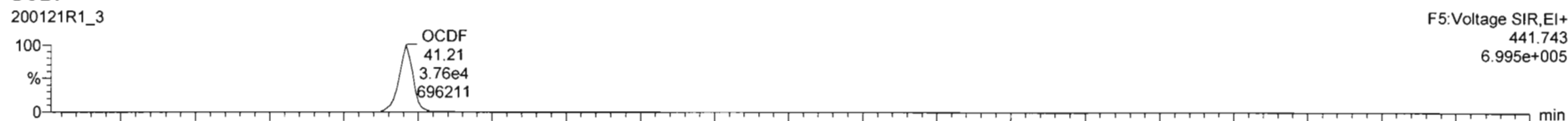
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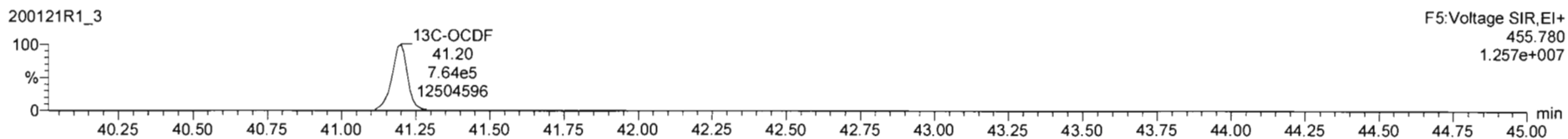
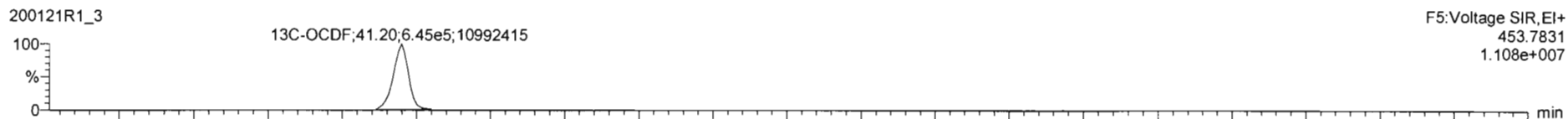
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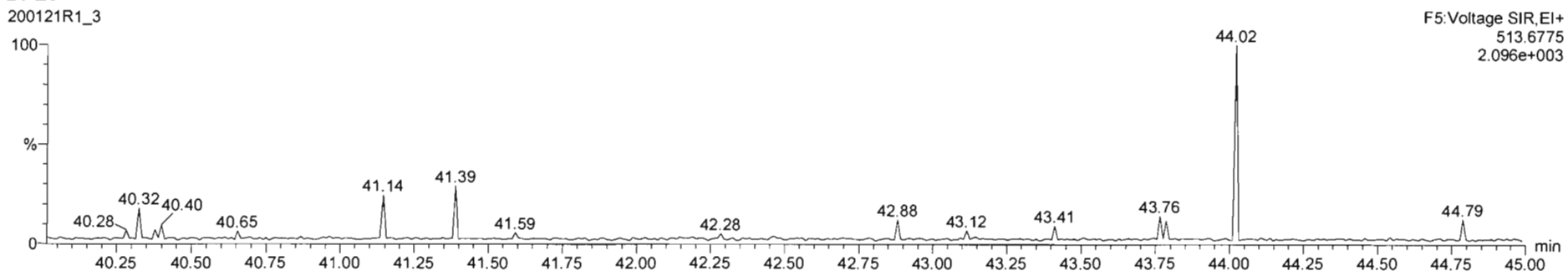
OCDF



13C-OCDF



DPE5

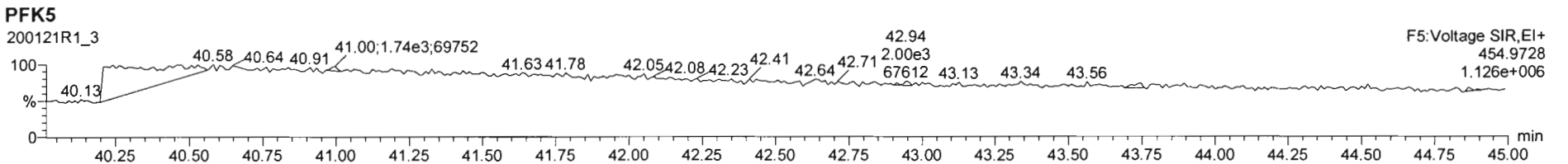
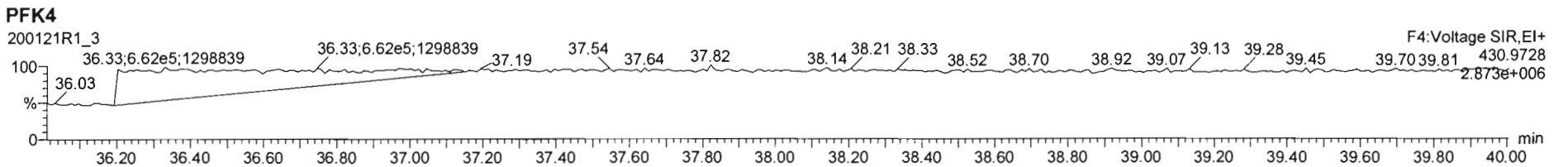
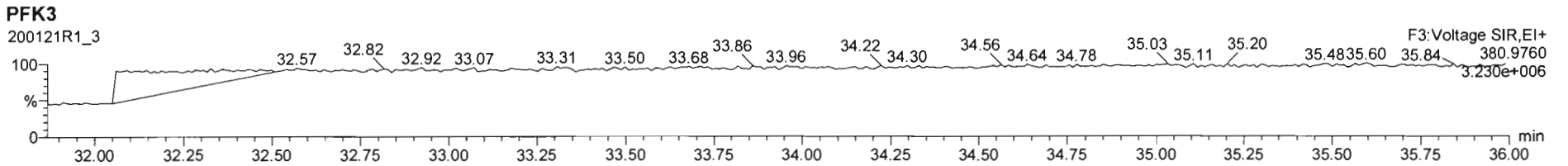
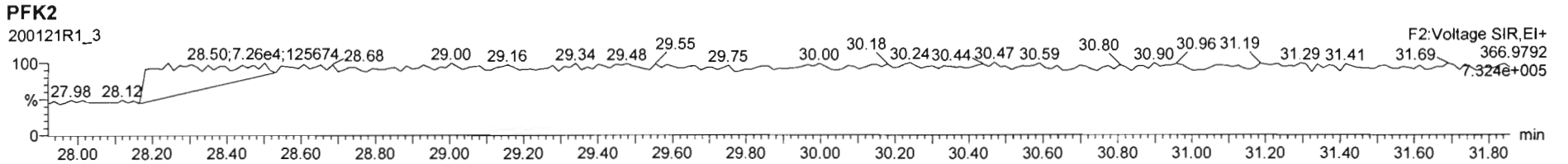
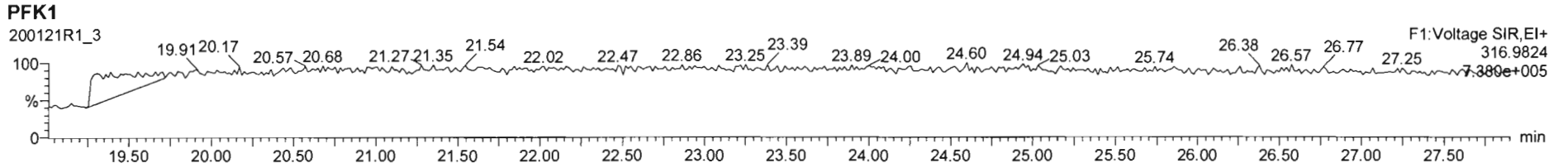


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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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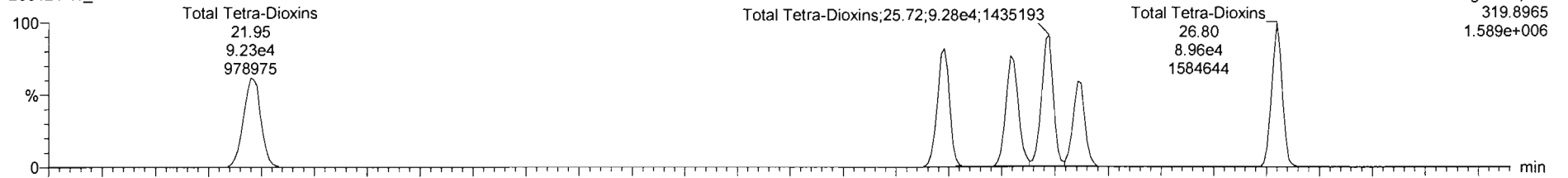
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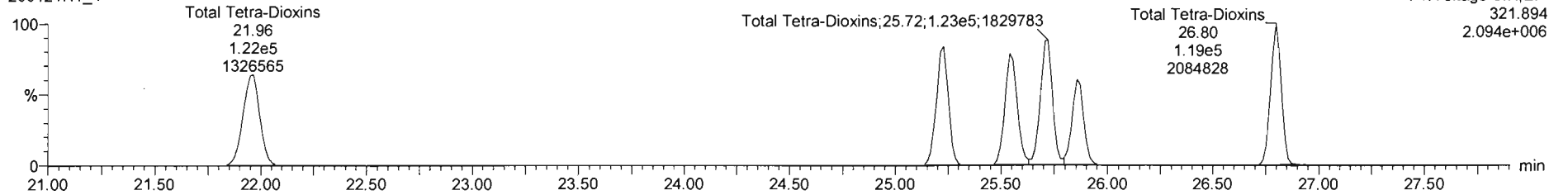
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2,3,7,8-TCDD

200121R1_4

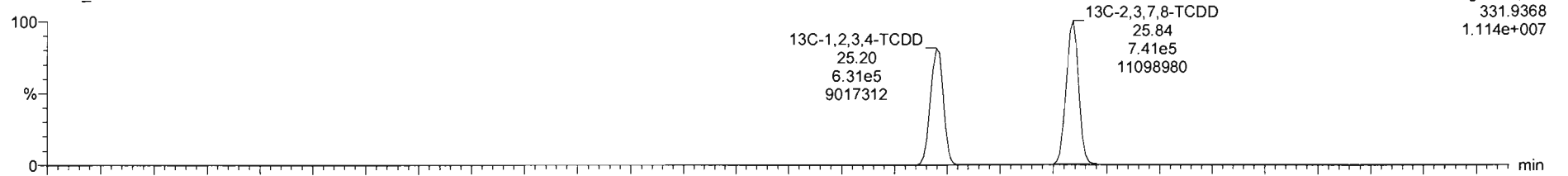


200121R1_4

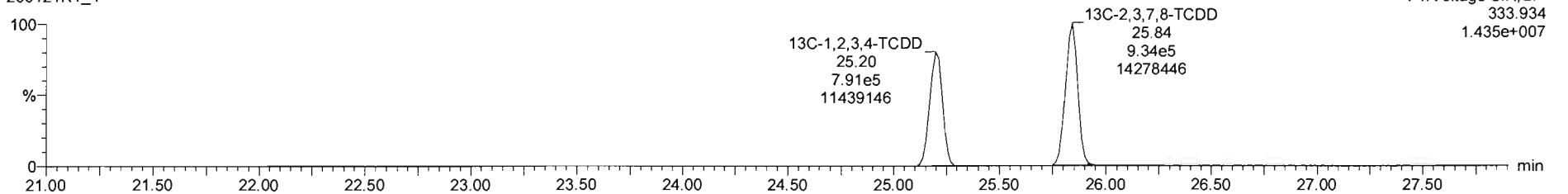


13C-2,3,7,8-TCDD

200121R1_4



200121R1_4



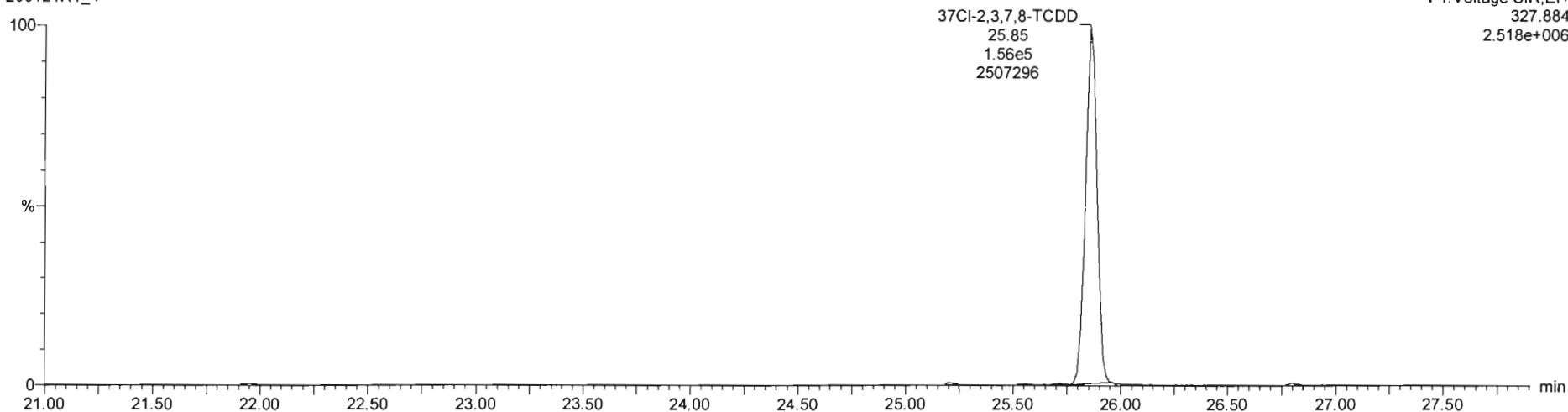
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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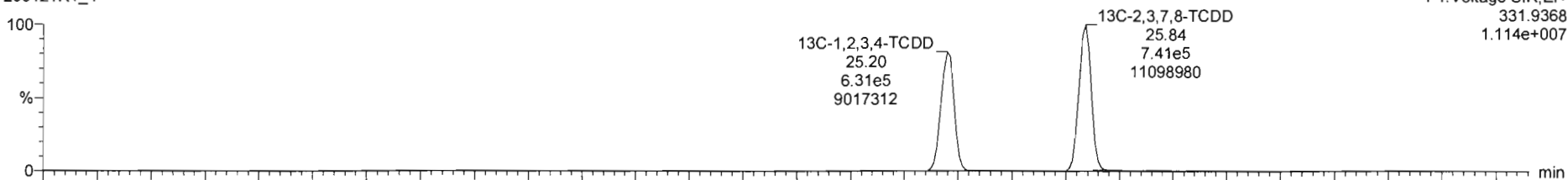
37Cl-2,3,7,8-TCDD

200121R1_4

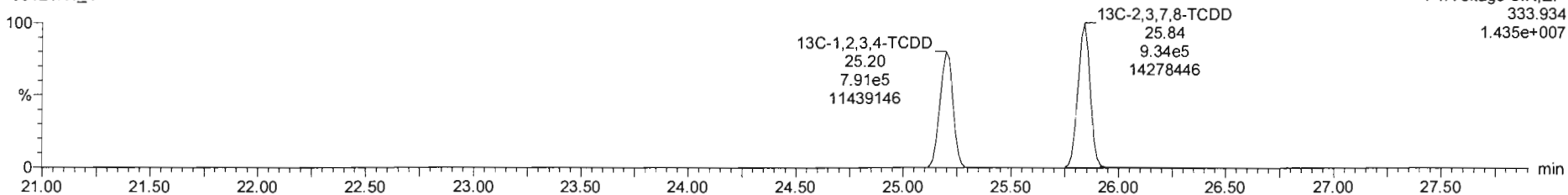


13C-1,2,3,4-TCDD

200121R1_4



200121R1_4



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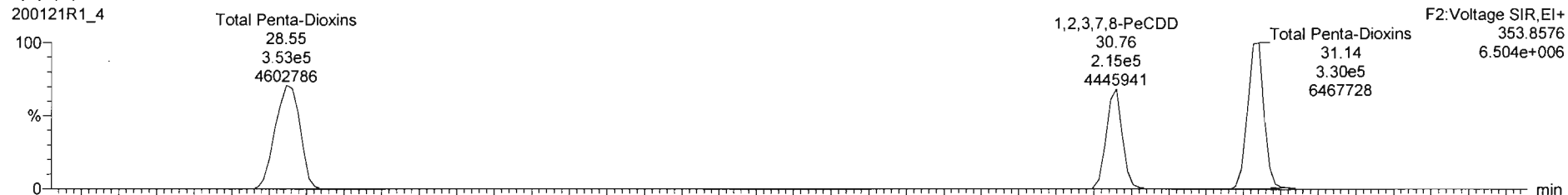
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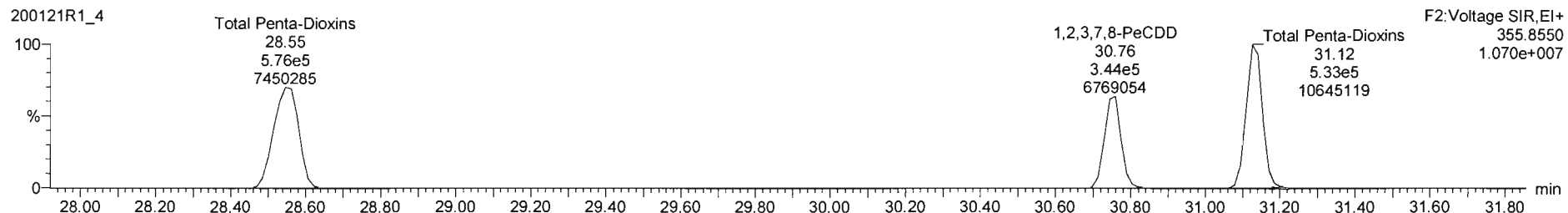
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1,2,3,7,8-PeCDD

200121R1_4



200121R1_4

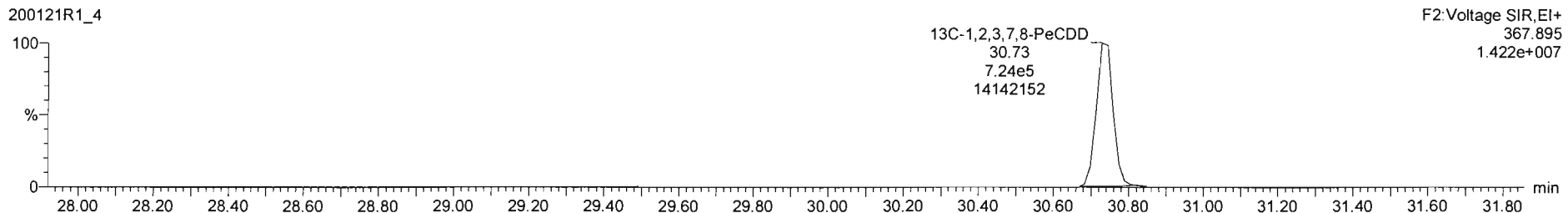


13C-1,2,3,7,8-PeCDD

200121R1_4



200121R1_4



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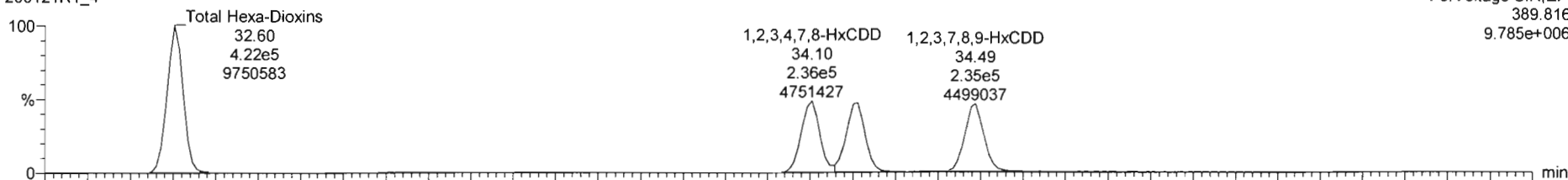
Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Name: 200121R1_4, Date: 21-Jan-2020, Time: 16:32:26, ID: ST200121R1_4 1613 CS3 19I1604, Description: 1613 CS3 19I1604

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

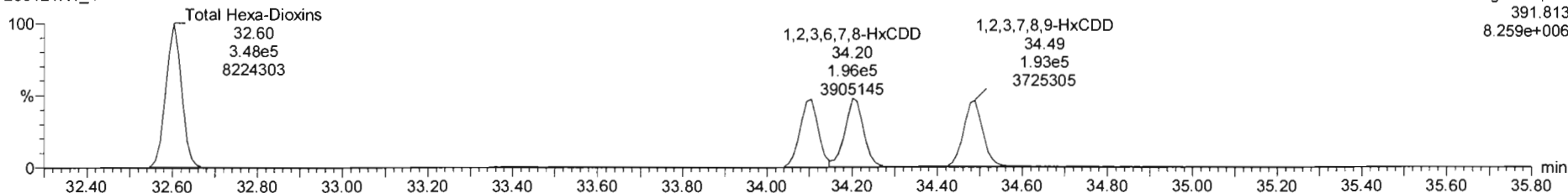
200121R1_4

F3: Voltage SIR, EI+
389.816
9.785e+006



200121R1_4

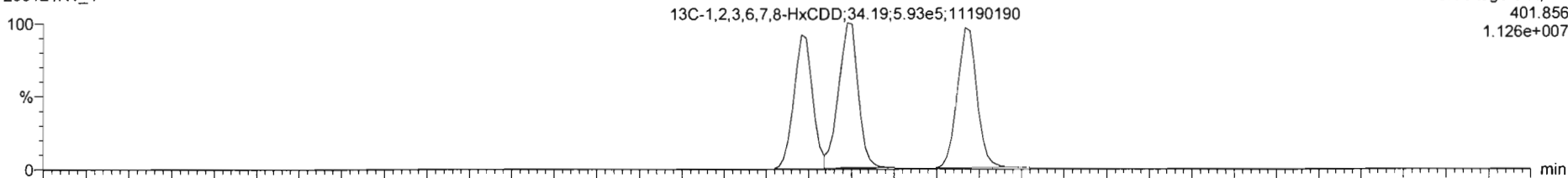
F3: Voltage SIR, EI+
391.813
8.259e+006



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

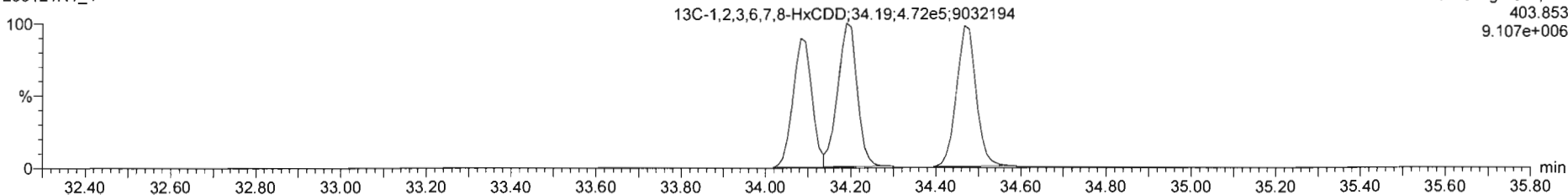
200121R1_4

F3: Voltage SIR, EI+
401.856
1.126e+007



200121R1_4

F3: Voltage SIR, EI+
403.853
9.107e+006



Dataset: Untitled

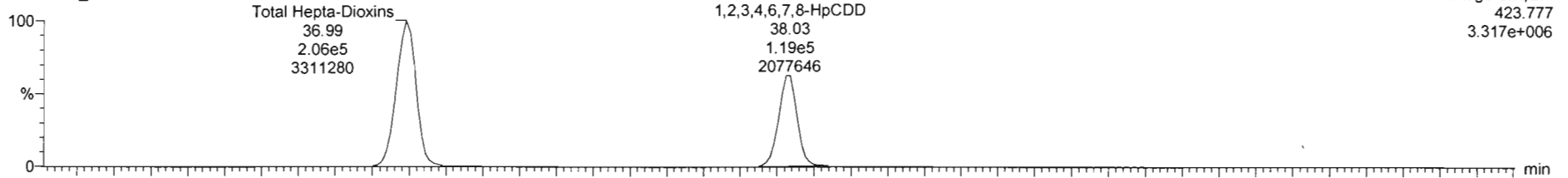
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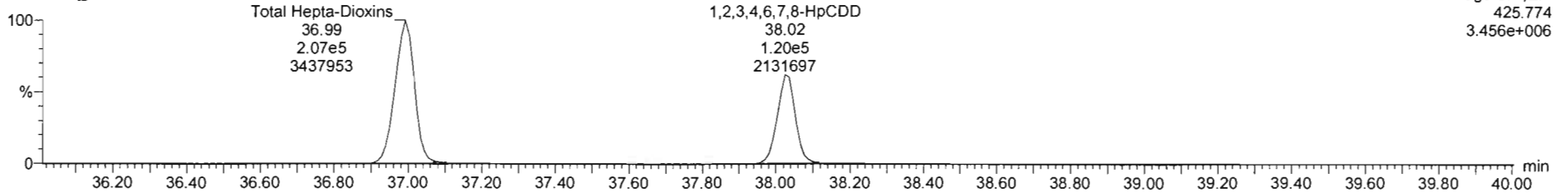
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1,2,3,4,6,7,8-HpCDD

200121R1_4

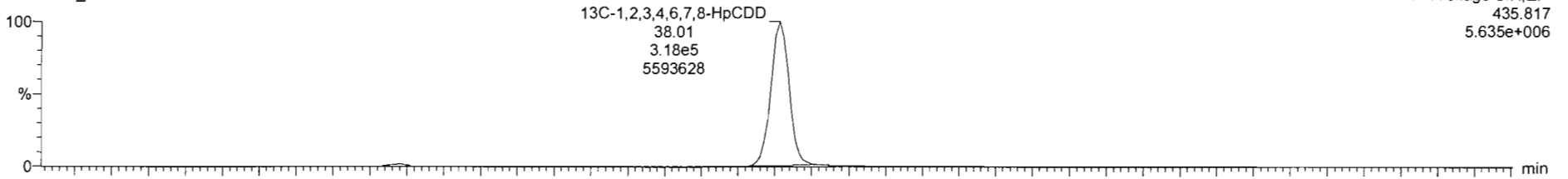


200121R1_4

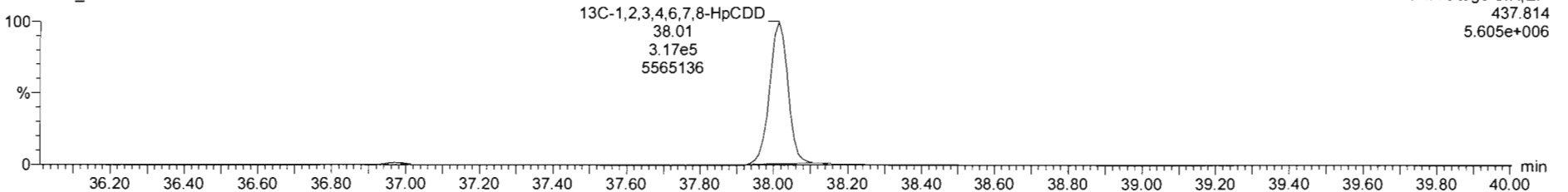


13C-1,2,3,4,6,7,8-HpCDD

200121R1_4



200121R1_4



Dataset: Untitled

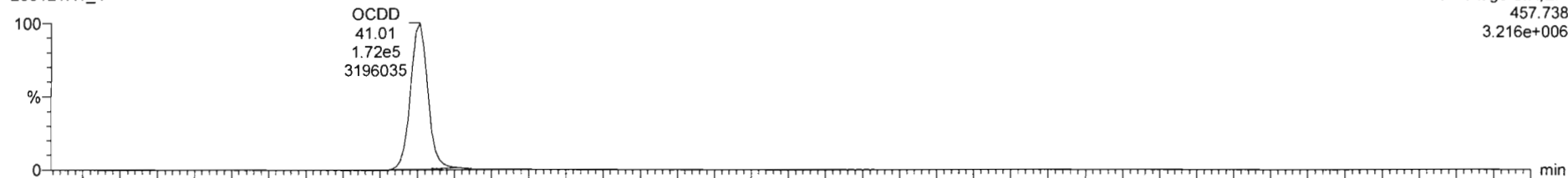
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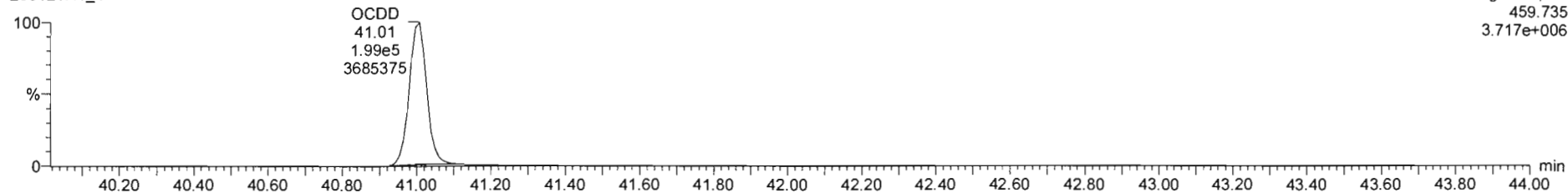
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OCDD

200121R1_4

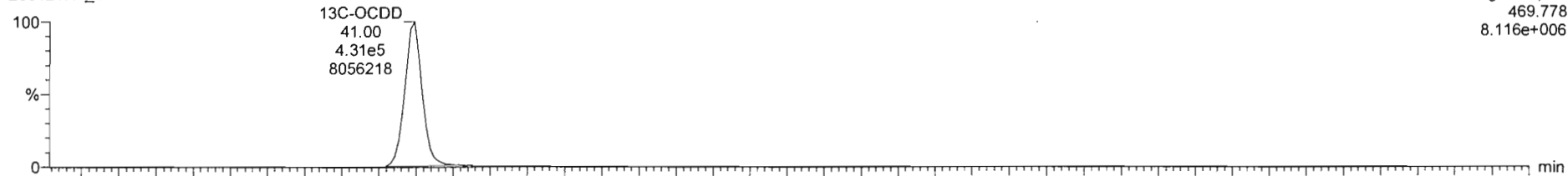


200121R1_4

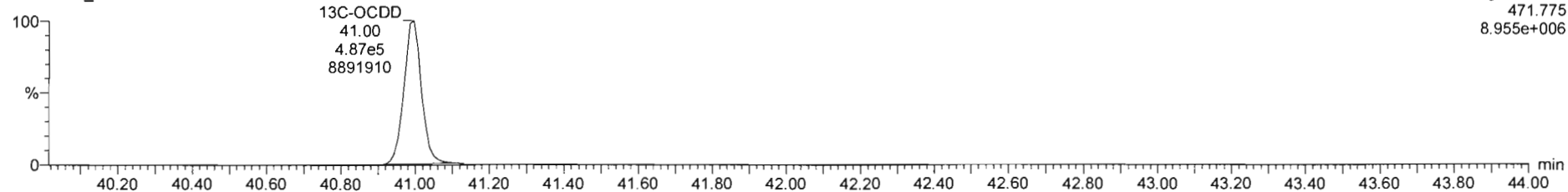


13C-OCDD

200121R1_4



200121R1_4



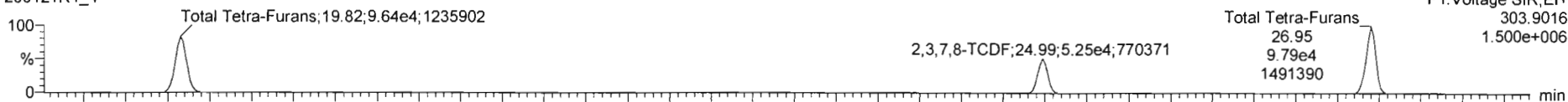
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

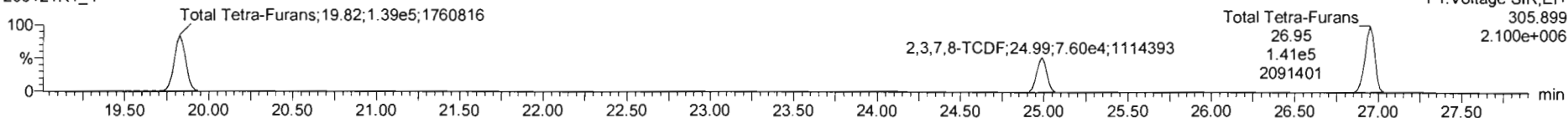
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2,3,7,8-TCDF

200121R1_4

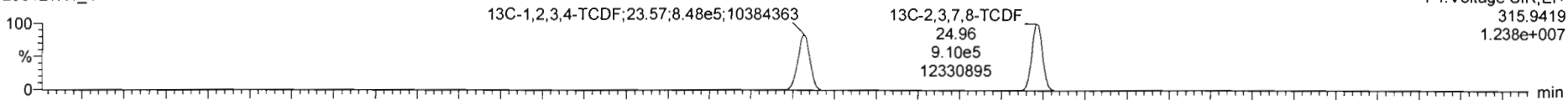


200121R1_4

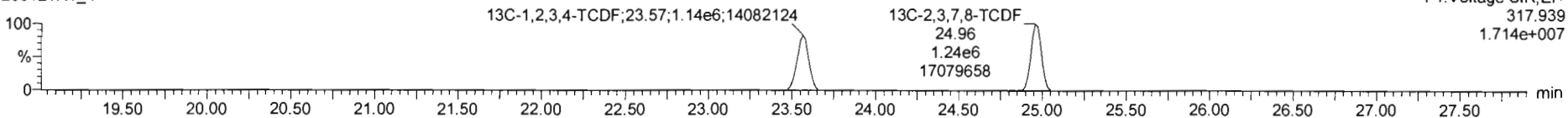


13C-2,3,7,8-TCDF

200121R1_4

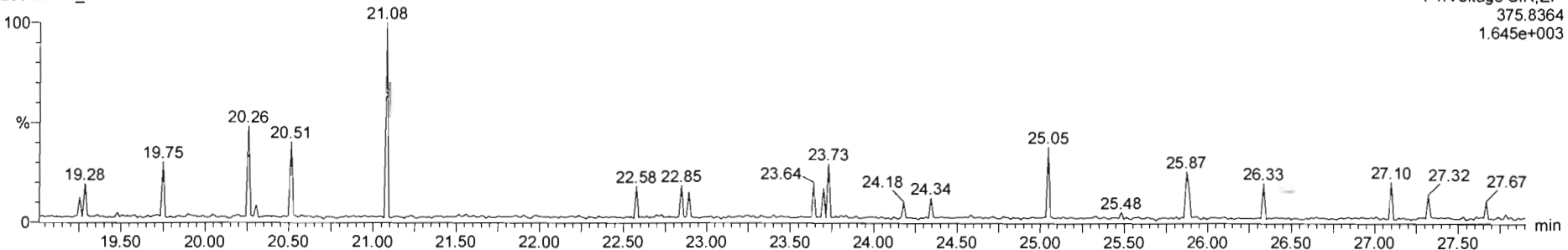


200121R1_4



DPE1

200121R1_4



Dataset: Untitled

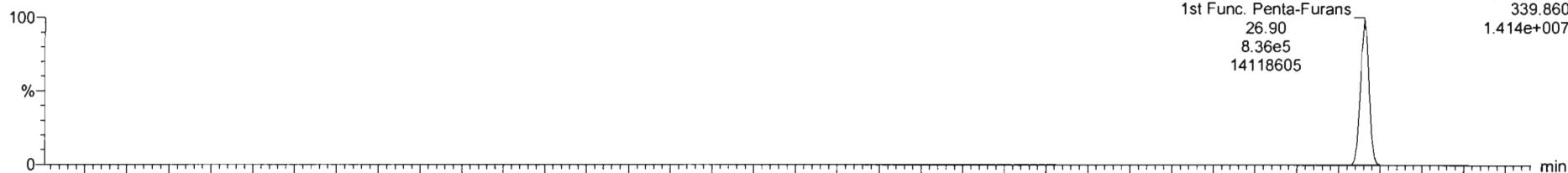
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

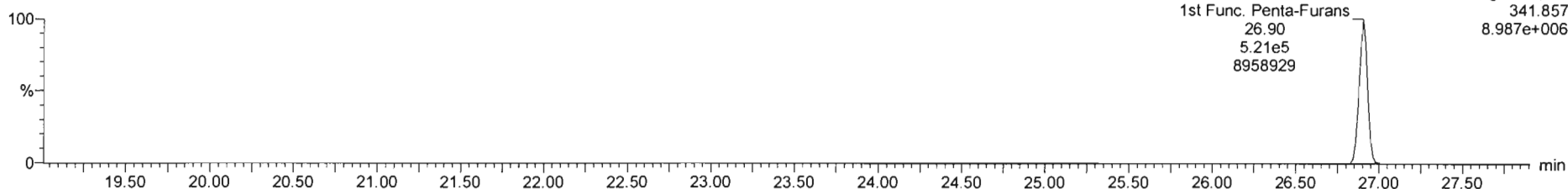
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1st Func. Penta-Furans

200121R1_4

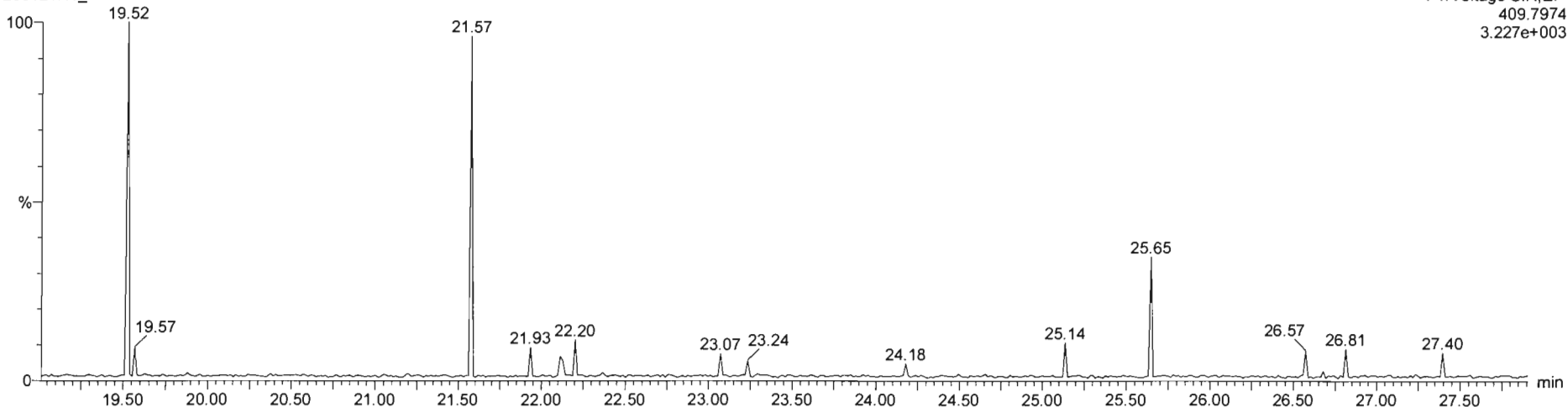


200121R1_4



DPE6

200121R1_4



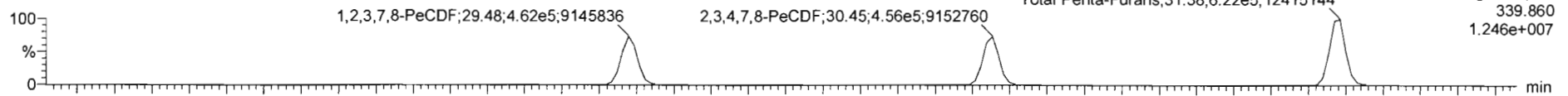
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

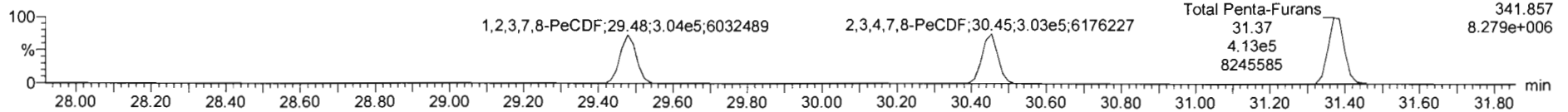
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1,2,3,7,8-PeCDF

200121R1_4

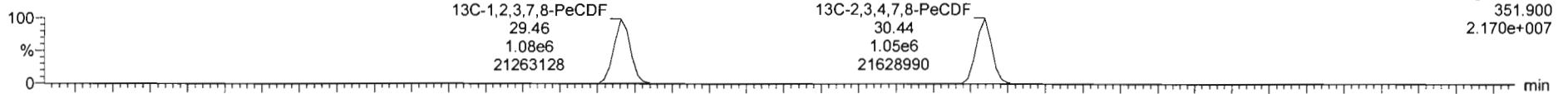


200121R1_4

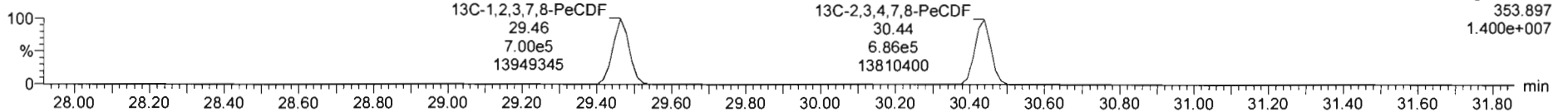


13C-1,2,3,7,8-PeCDF

200121R1_4

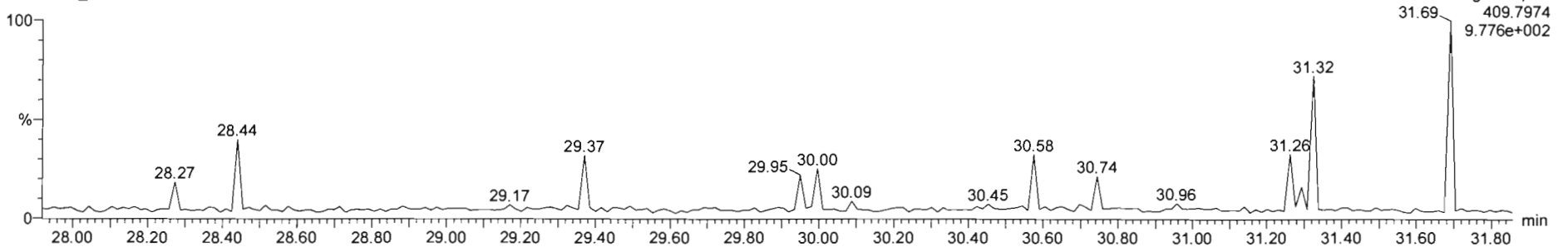


200121R1_4



DPE2

200121R1_4



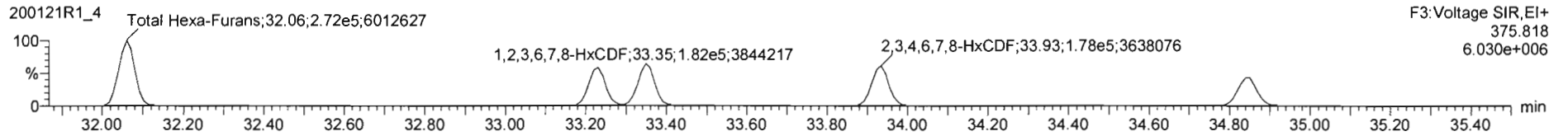
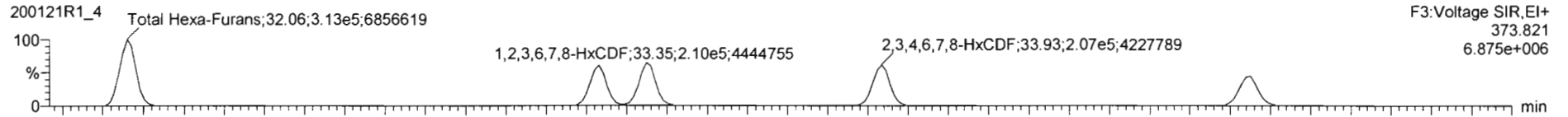
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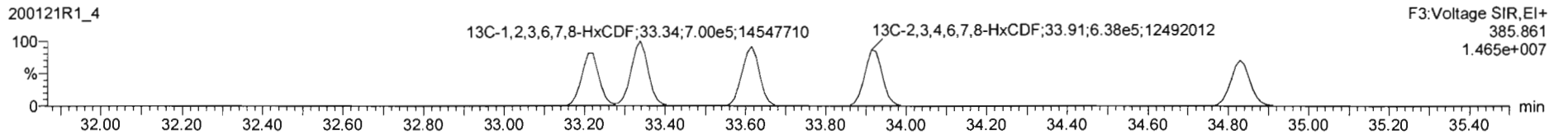
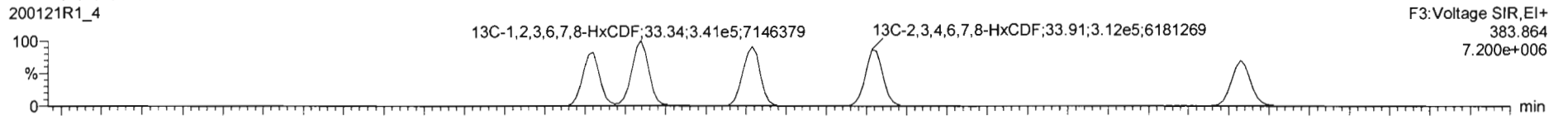
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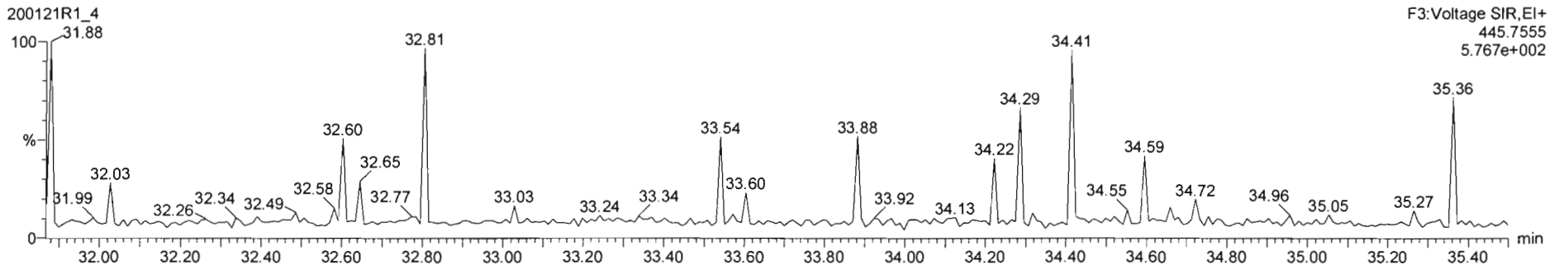
1,2,3,4,7,8-HxCDF



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



DPE3



Dataset: Untitled

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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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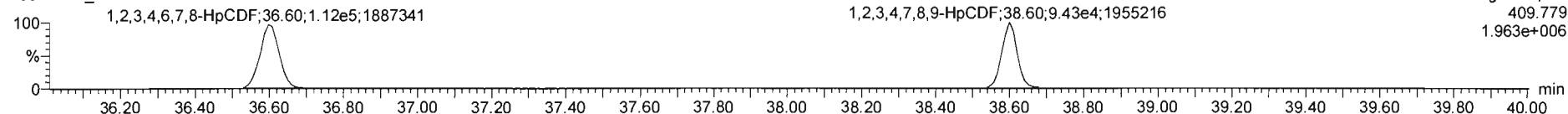
1,2,3,4,6,7,8-HpCDF

200121R1_4



F4: Voltage SIR, EI+
407.782
1.892e+006

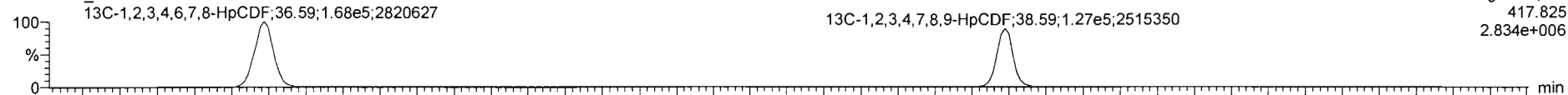
200121R1_4



F4: Voltage SIR, EI+
409.779
1.963e+006

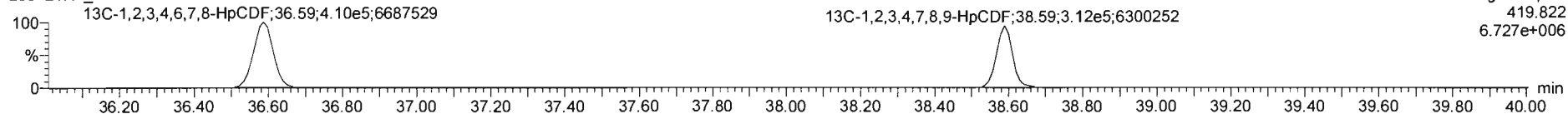
13C-1,2,3,4,6,7,8-HpCDF

200121R1_4



F4: Voltage SIR, EI+
417.825
2.834e+006

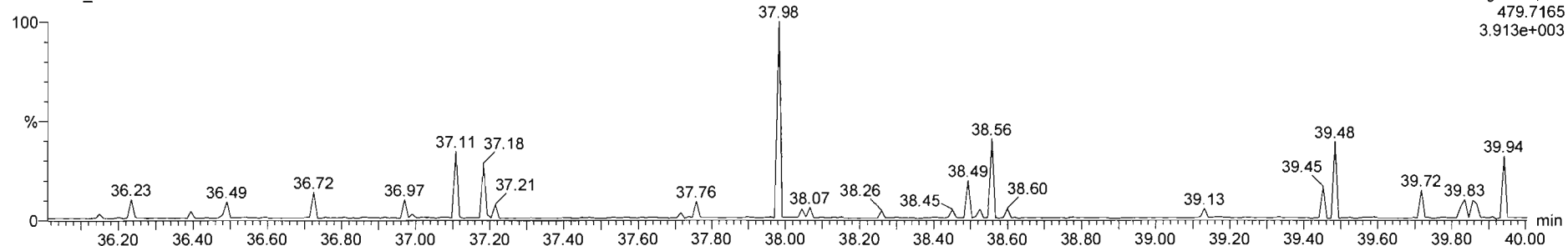
200121R1_4



F4: Voltage SIR, EI+
419.822
6.727e+006

DPE4

200121R1_4



F4: Voltage SIR, EI+
479.7165
3.913e+003

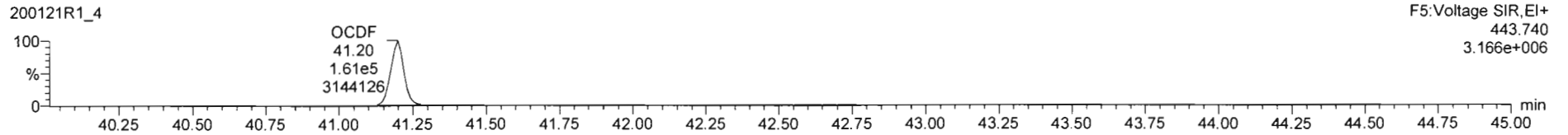
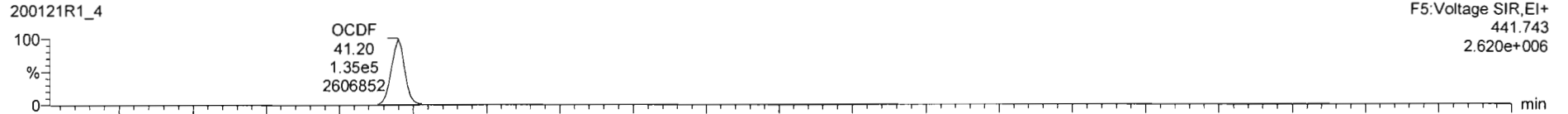
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time

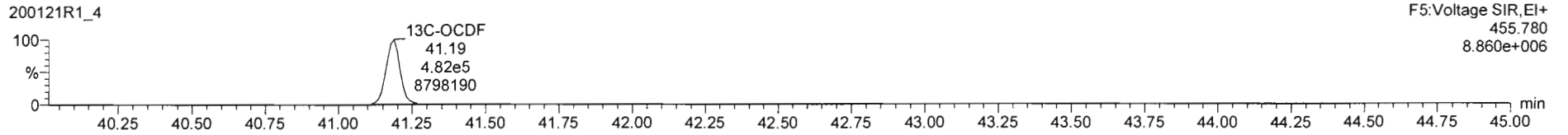
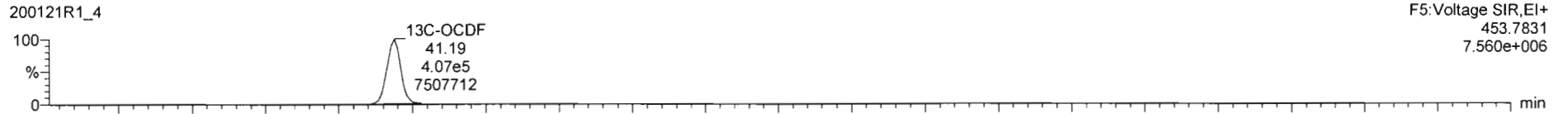
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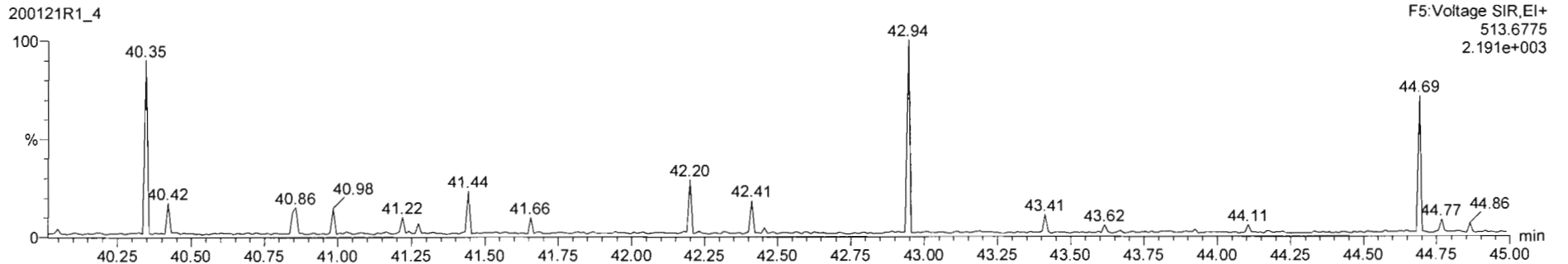
OCDF



13C-OCDF



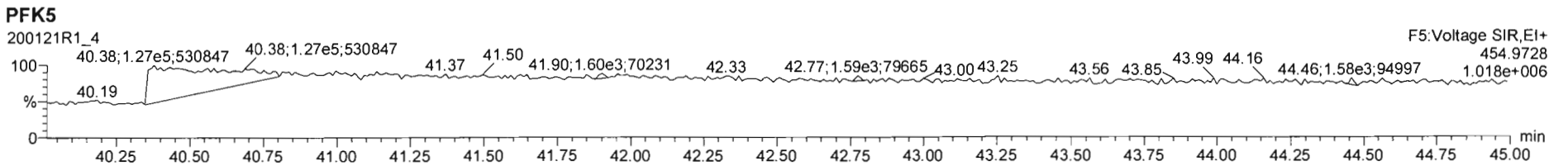
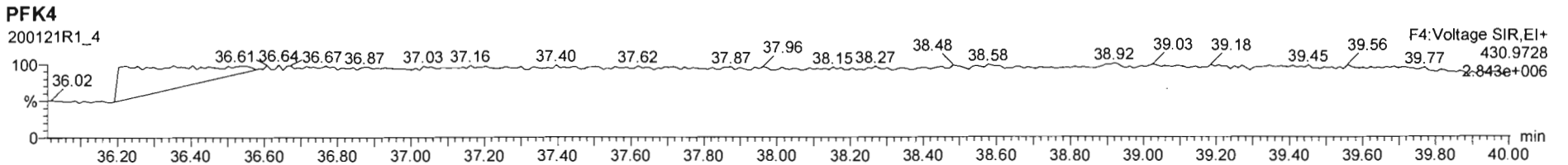
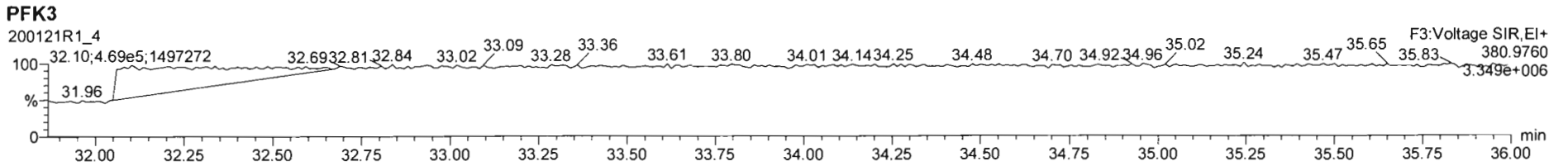
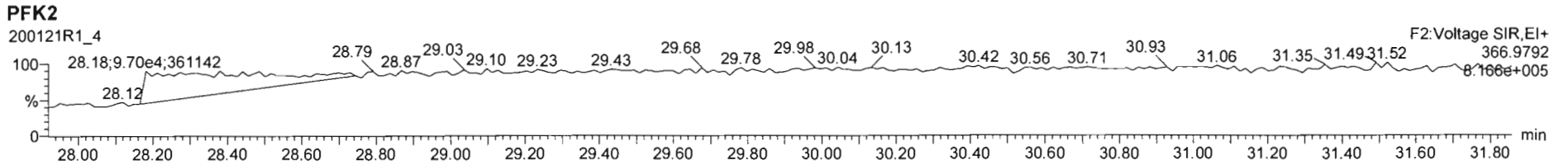
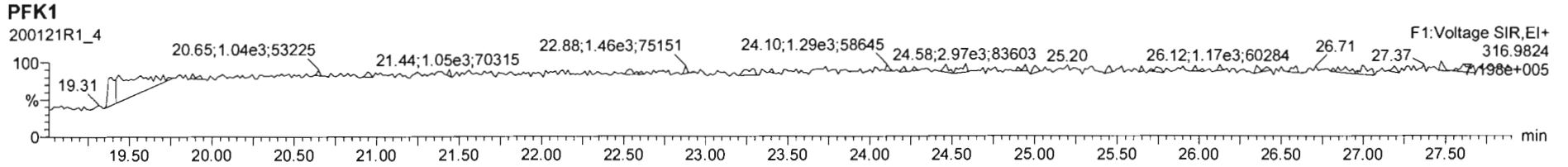
DPE5



Dataset: Untitled

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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time

Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

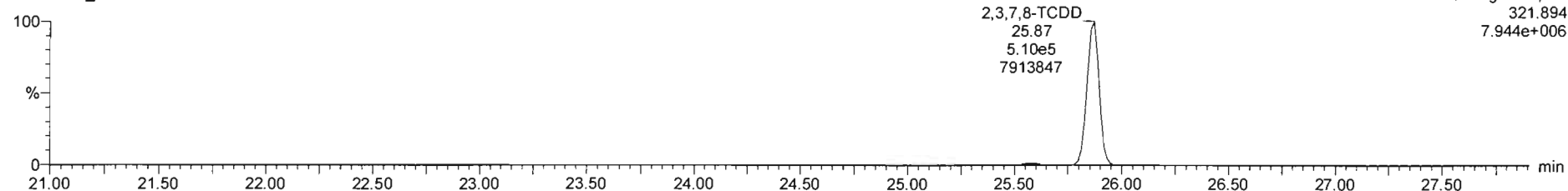
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2,3,7,8-TCDD

200121R1_5

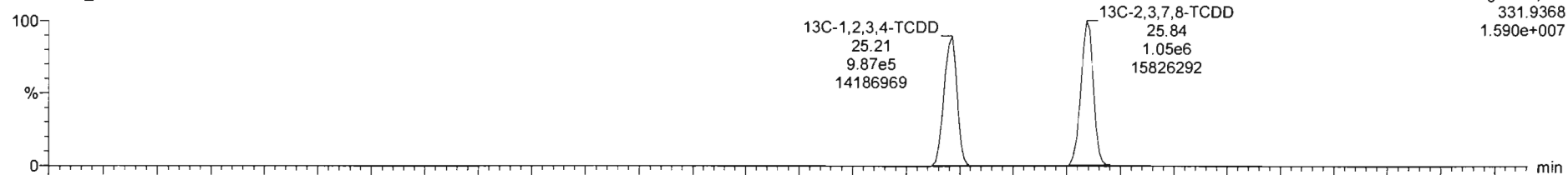


200121R1_5

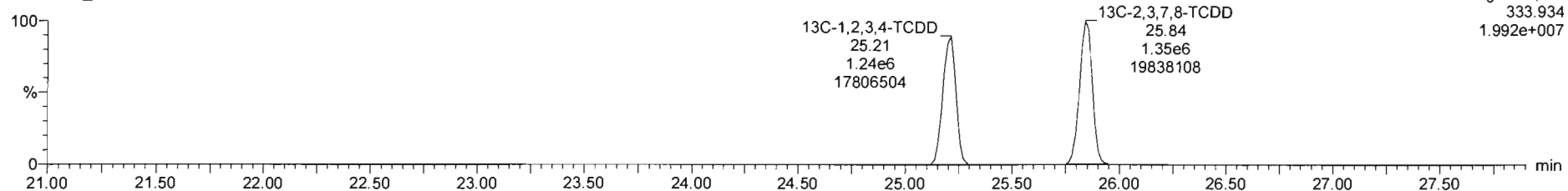


13C-2,3,7,8-TCDD

200121R1_5



200121R1_5



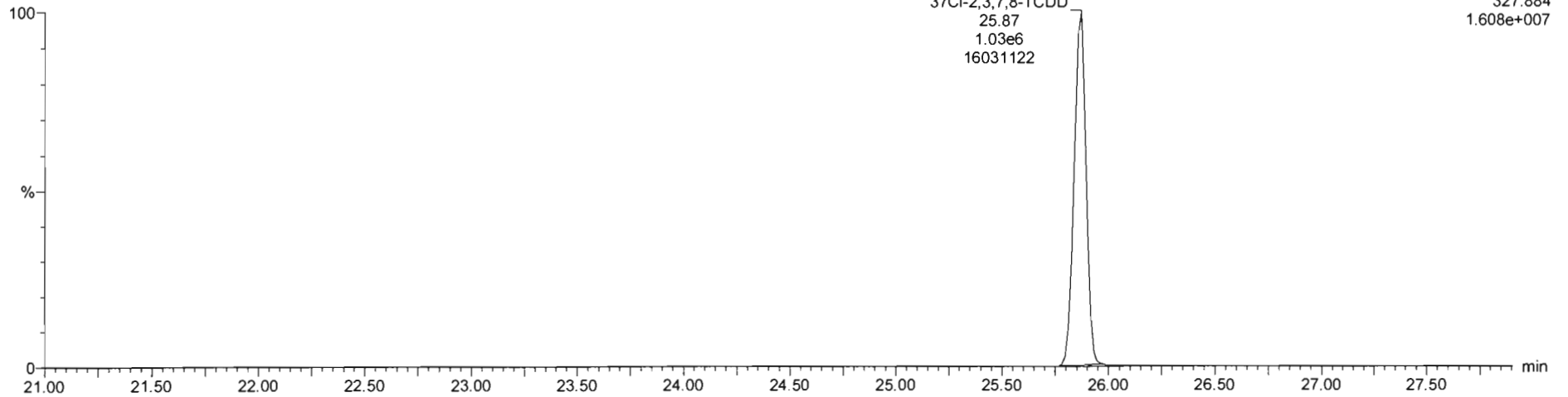
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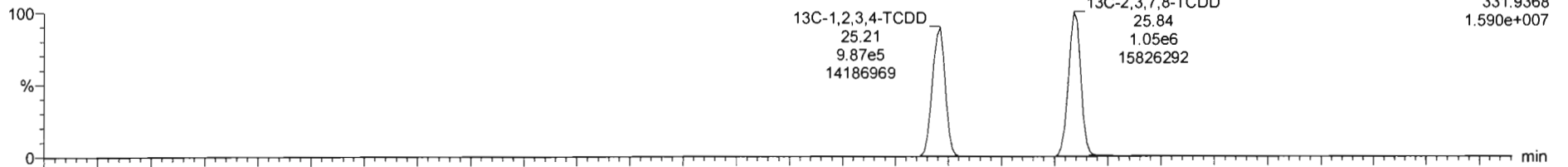
37Cl-2,3,7,8-TCDD

200121R1_5

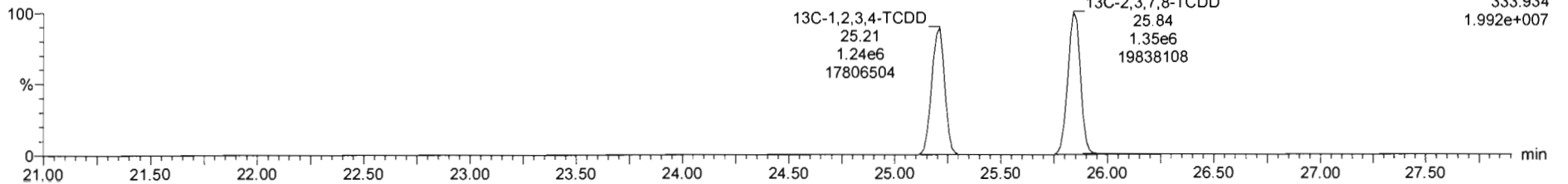


13C-1,2,3,4-TCDD

200121R1_5



200121R1_5



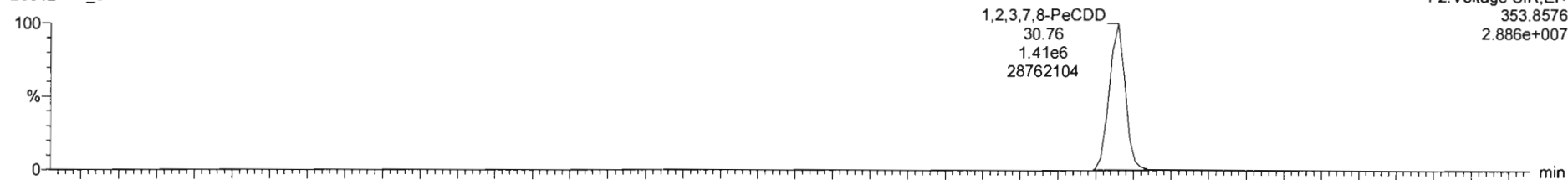
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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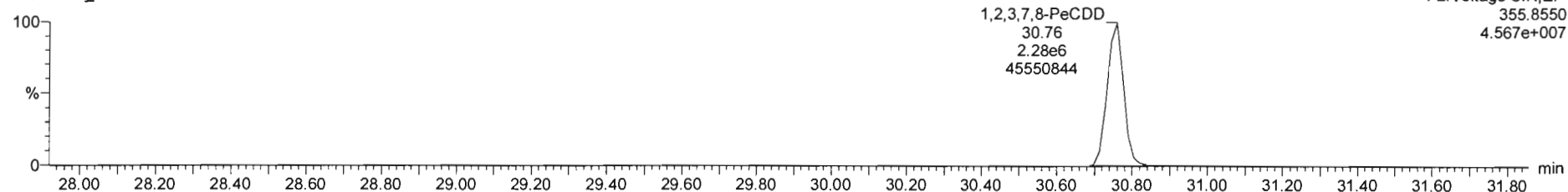
1,2,3,7,8-PeCDD

200121R1_5



F2: Voltage SIR, EI+
353.8576
2.886e+007

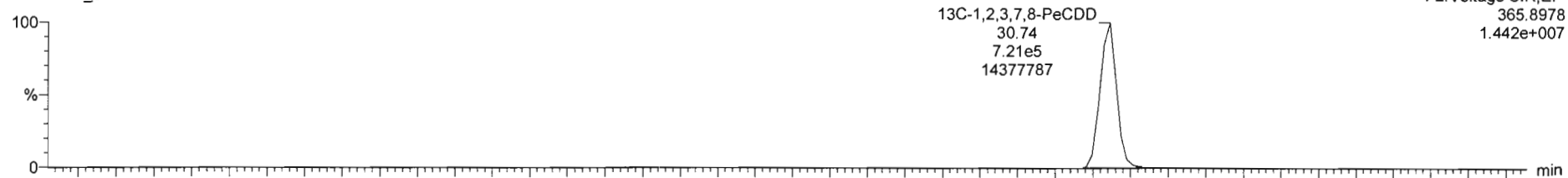
200121R1_5



F2: Voltage SIR, EI+
355.8550
4.567e+007

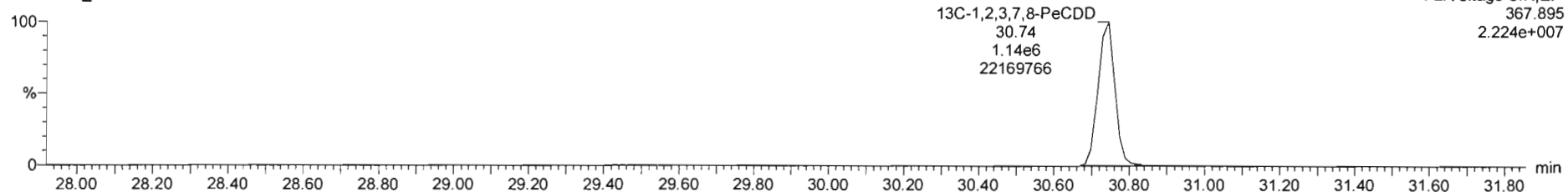
13C-1,2,3,7,8-PeCDD

200121R1_5



F2: Voltage SIR, EI+
365.8978
1.442e+007

200121R1_5



F2: Voltage SIR, EI+
367.895
2.224e+007

Dataset: Untitled

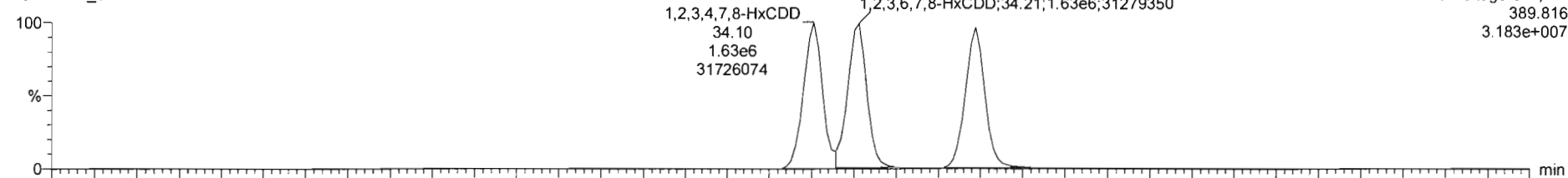
Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time

Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

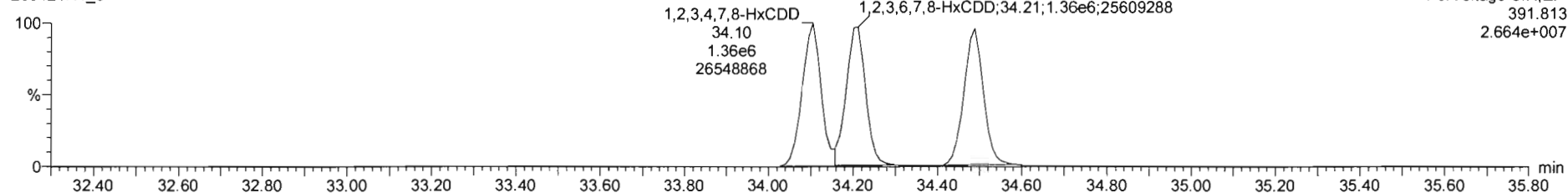
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1,2,3,4,7,8-HxCDD

200121R1_5

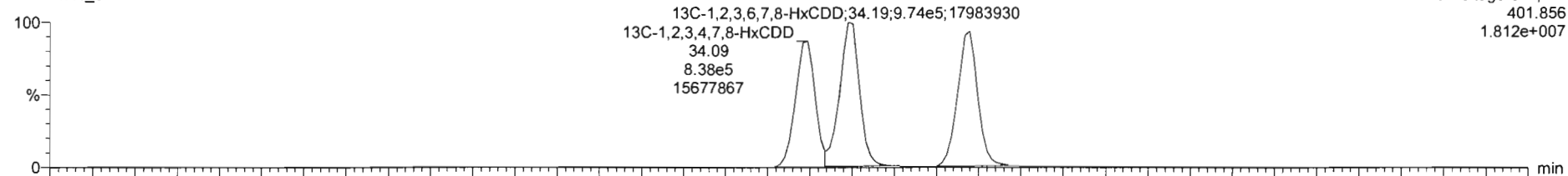


200121R1_5

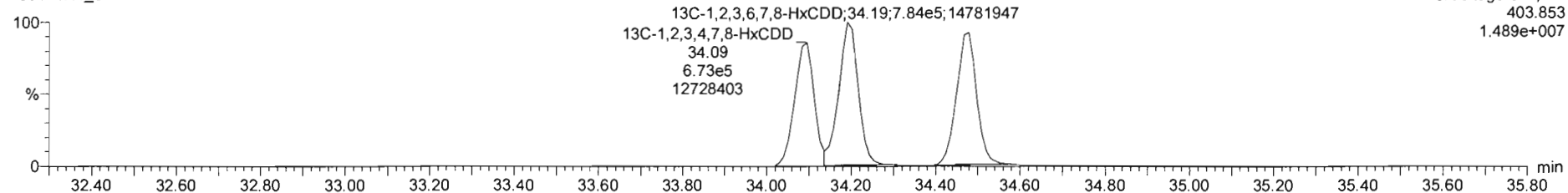


13C-1,2,3,4,7,8-HxCDD

200121R1_5



200121R1_5



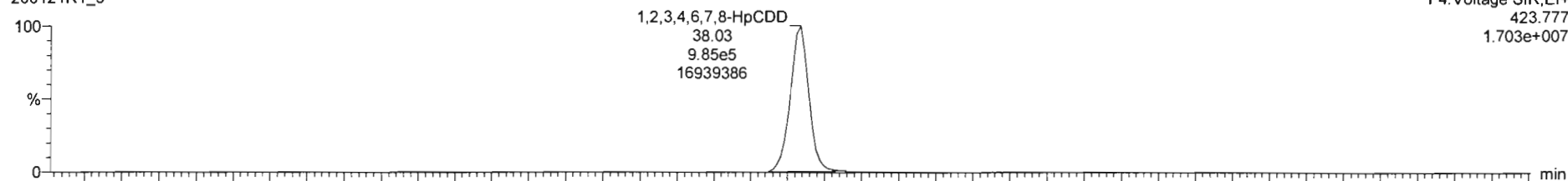
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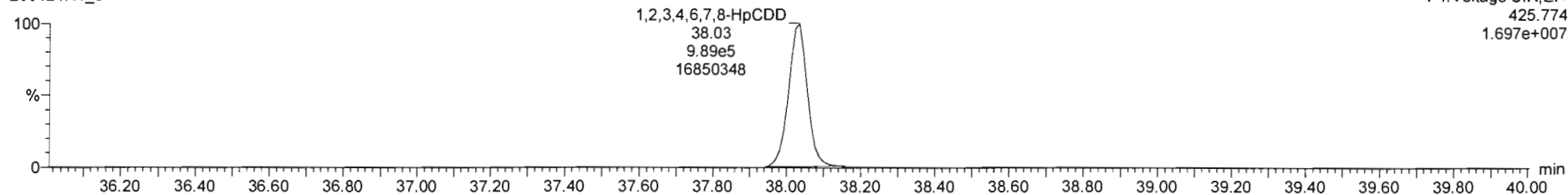
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1,2,3,4,6,7,8-HpCDD

200121R1_5

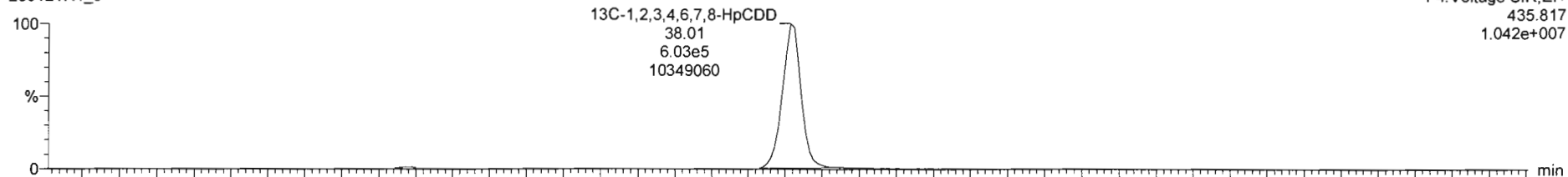


200121R1_5

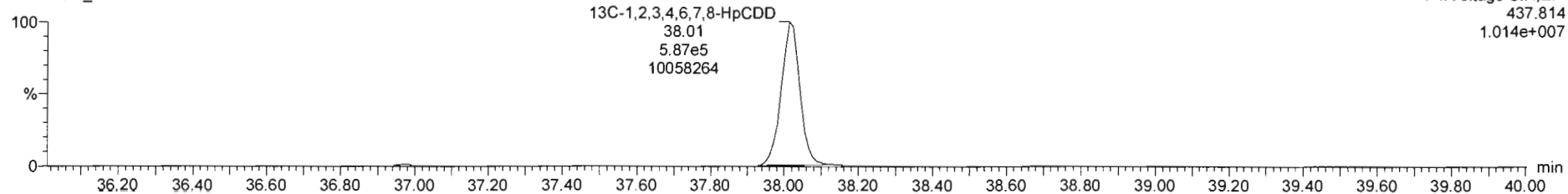


13C-1,2,3,4,6,7,8-HpCDD

200121R1_5



200121R1_5



Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Name: 200121R1_5, Date: 21-Jan-2020, Time: 17:19:23, ID: ST200121R1_5 1613 CS4 19C2205, Description: 1613 CS4 19C2205

OCDD

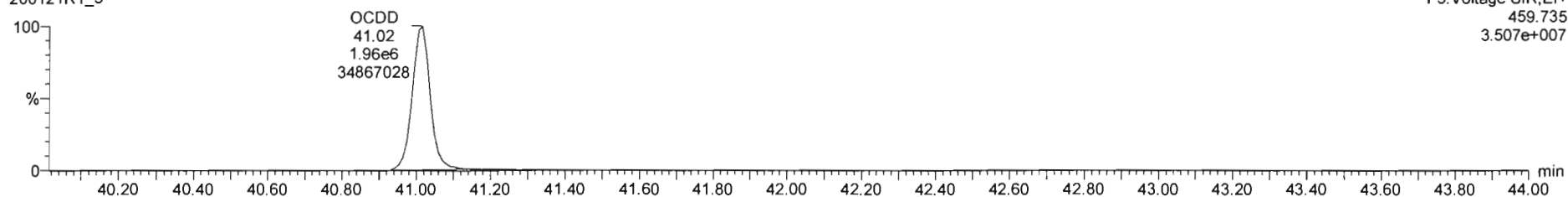
200121R1_5

F5:Voltage SIR,EI+
457.738
3.047e+007



200121R1_5

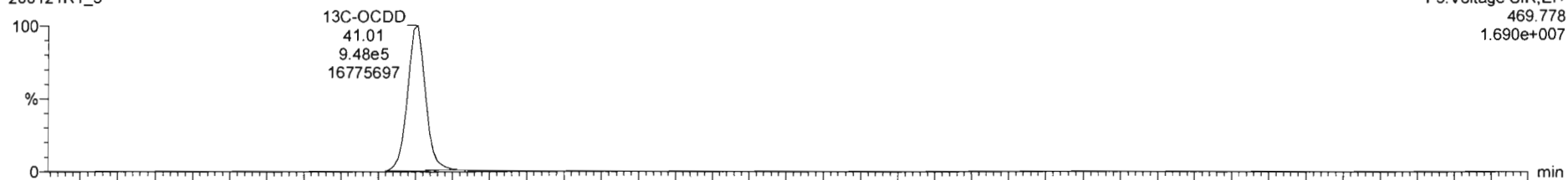
F5:Voltage SIR,EI+
459.735
3.507e+007



13C-OCDD

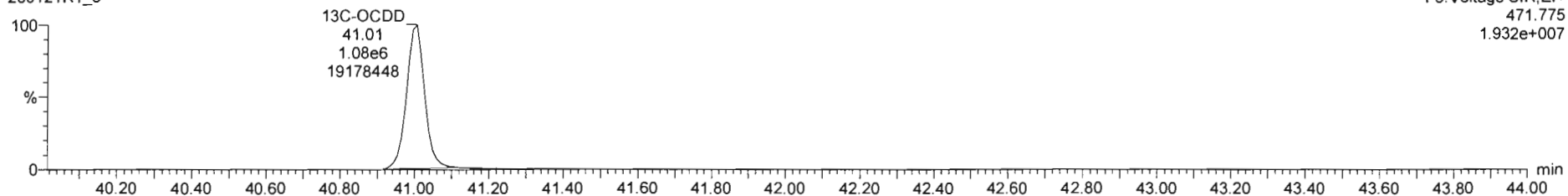
200121R1_5

F5:Voltage SIR,EI+
469.778
1.690e+007



200121R1_5

F5:Voltage SIR,EI+
471.775
1.932e+007



Dataset: Untitled

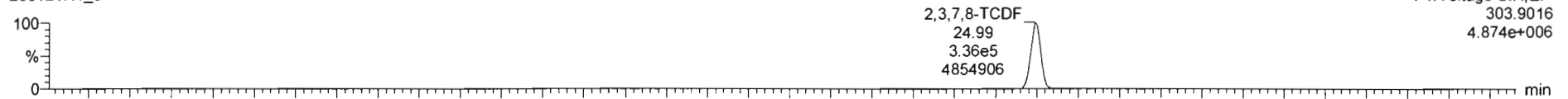
Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time

Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

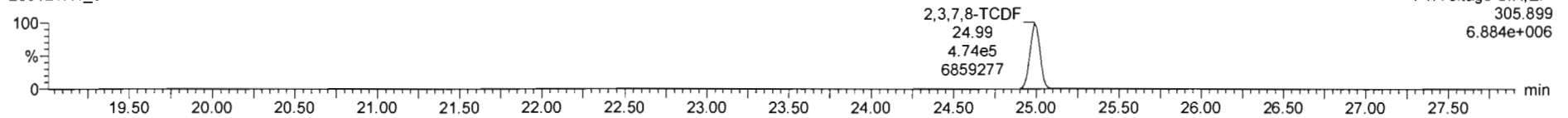
Name: 200121R1_5, Date: 21-Jan-2020, Time: 17:19:23, ID: ST200121R1_5 1613 CS4 19C2205, Description: 1613 CS4 19C2205

2,3,7,8-TCDF

200121R1_5

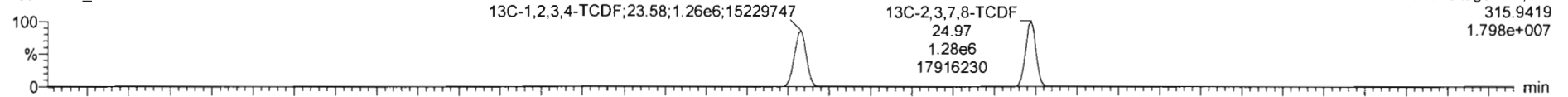


200121R1_5

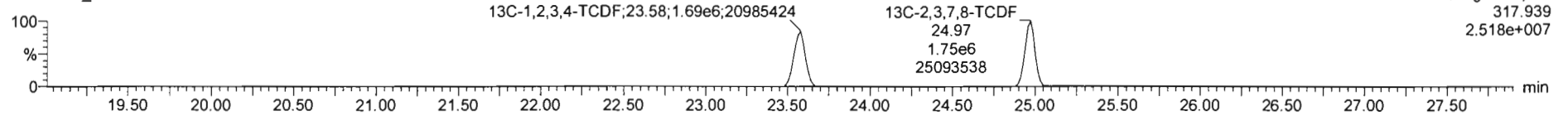


13C-2,3,7,8-TCDF

200121R1_5

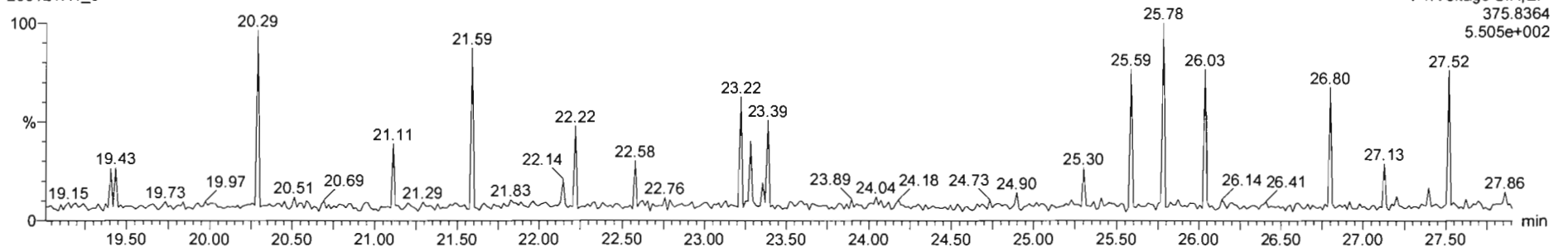


200121R1_5



DPE1

200121R1_5



Dataset: Untitled

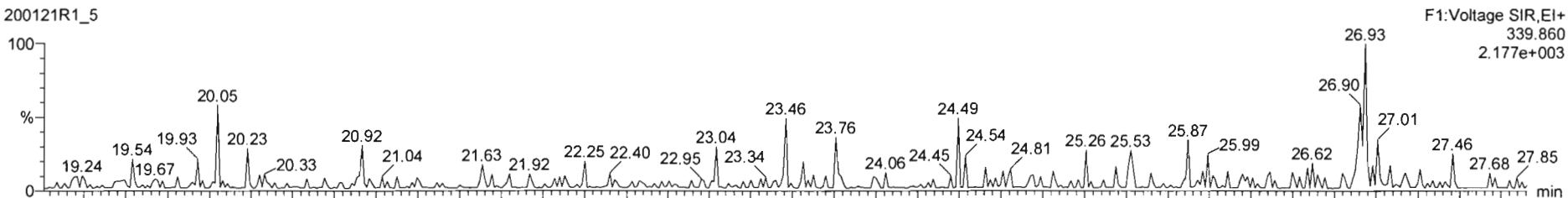
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

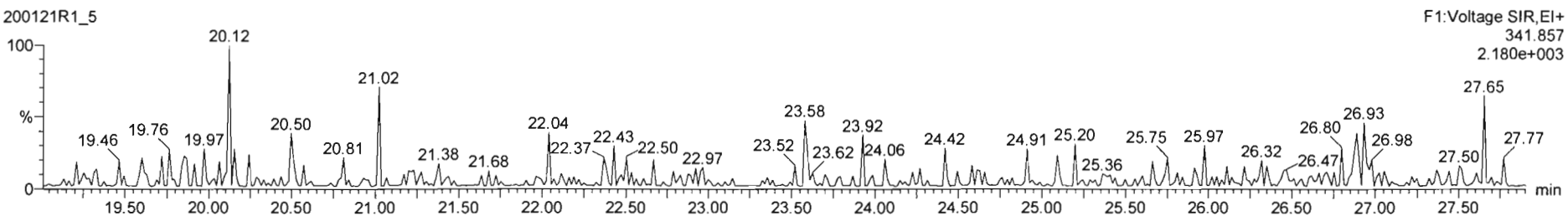
Name: 200121R1_5, Date: 21-Jan-2020, Time: 17:19:23, ID: ST200121R1_5 1613 CS4 19C2205, Description: 1613 CS4 19C2205

1st Func. Penta-Furans

200121R1_5

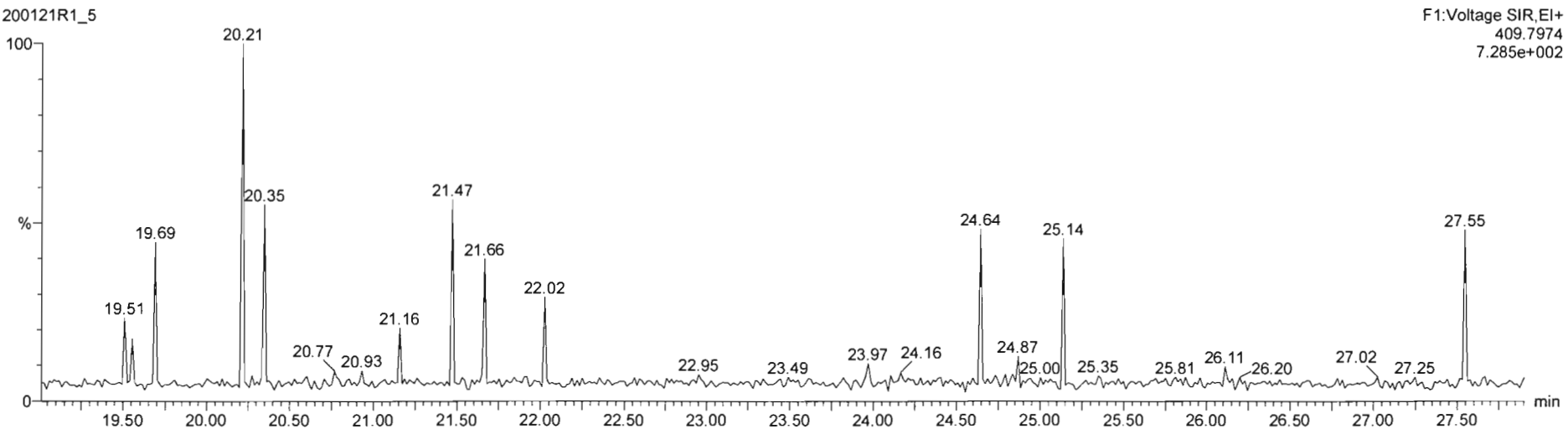


200121R1_5



DPE6

200121R1_5



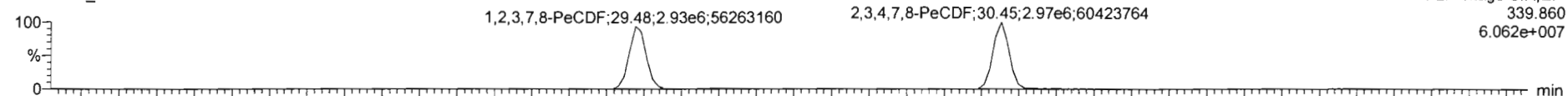
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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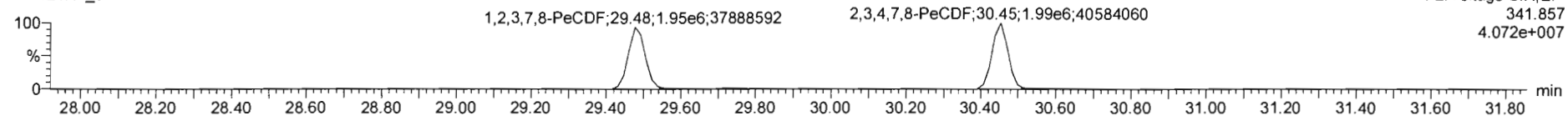
1,2,3,7,8-PeCDF

200121R1_5



F2:Voltage SIR,EI+
339.860
6.062e+007

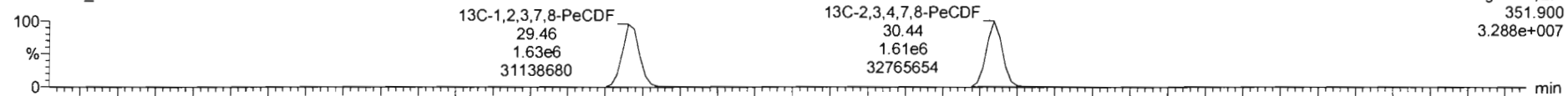
200121R1_5



F2:Voltage SIR,EI+
341.857
4.072e+007

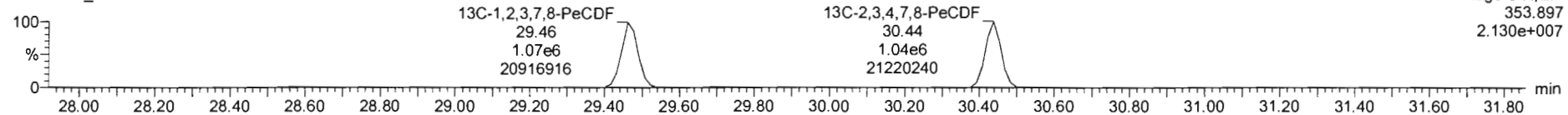
13C-1,2,3,7,8-PeCDF

200121R1_5



F2:Voltage SIR,EI+
351.900
3.288e+007

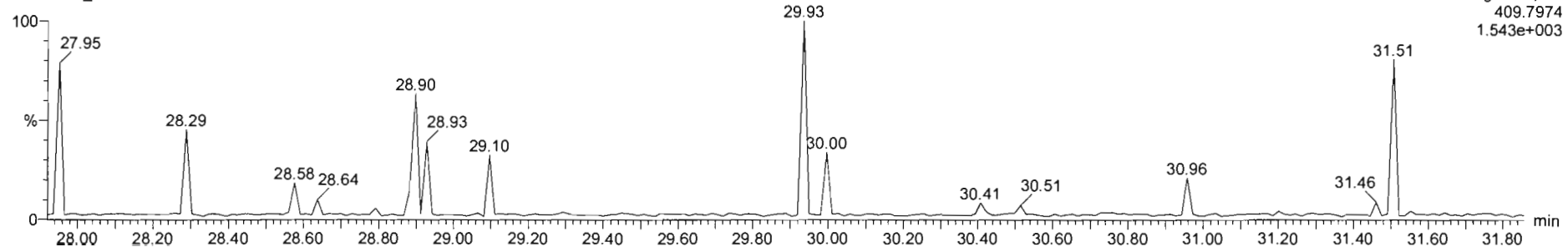
200121R1_5



F2:Voltage SIR,EI+
353.897
2.130e+007

DPE2

200121R1_5



F2:Voltage SIR,EI+
409.7974
1.543e+003

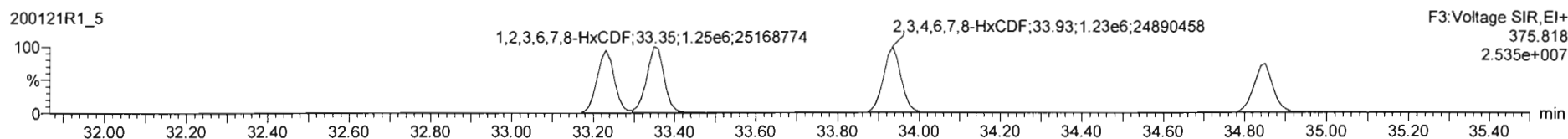
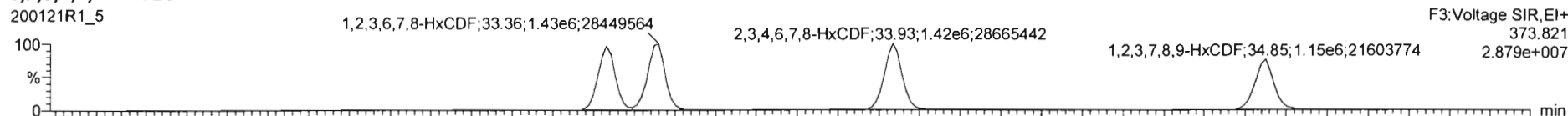
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time

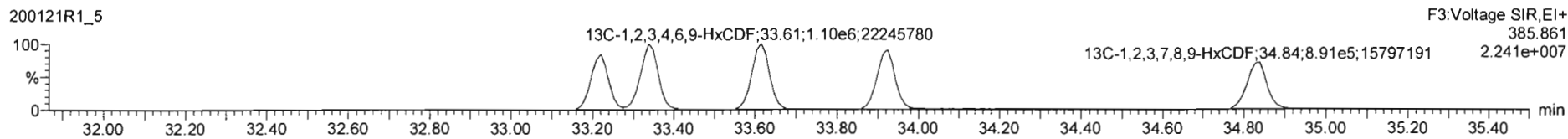
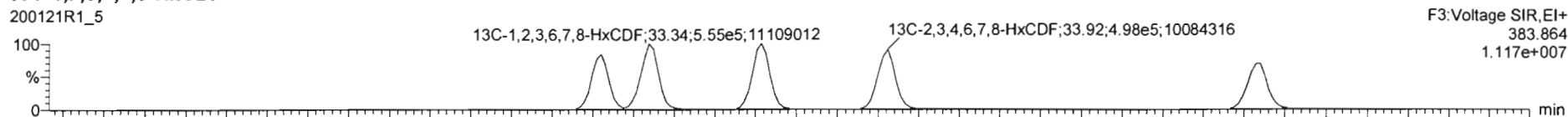
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Name: 200121R1_5, Date: 21-Jan-2020, Time: 17:19:23, ID: ST200121R1_5 1613 CS4 19C2205, Description: 1613 CS4 19C2205

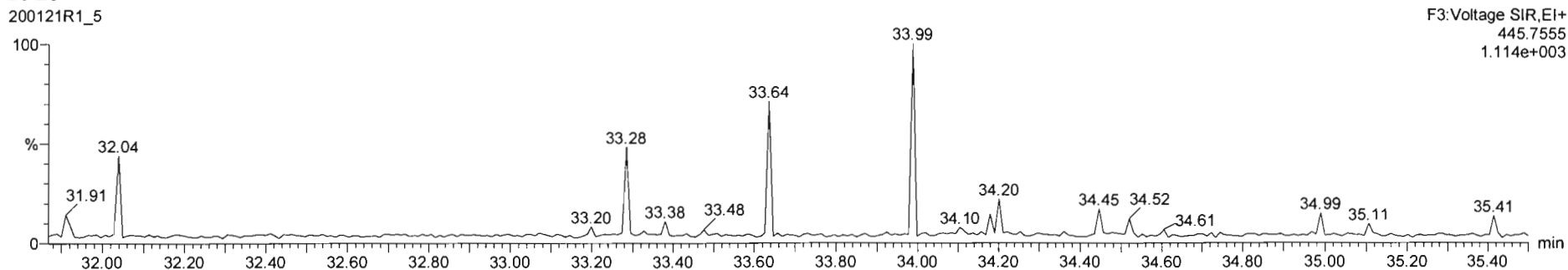
1,2,3,4,7,8-HxCDF



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



DPE3



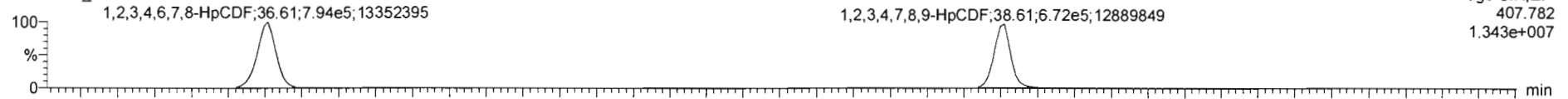
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Name: 200121R1_5, Date: 21-Jan-2020, Time: 17:19:23, ID: ST200121R1_5 1613 CS4 19C2205, Description: 1613 CS4 19C2205

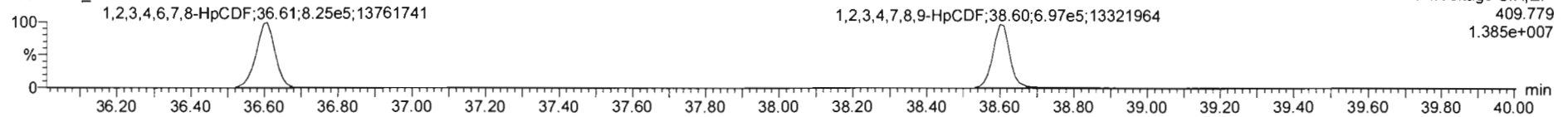
1,2,3,4,6,7,8-HpCDF

200121R1_5



F4: Voltage SIR, EI+
407.782
1.343e+007

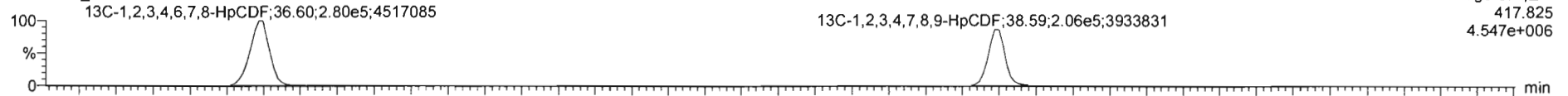
200121R1_5



F4: Voltage SIR, EI+
409.779
1.385e+007

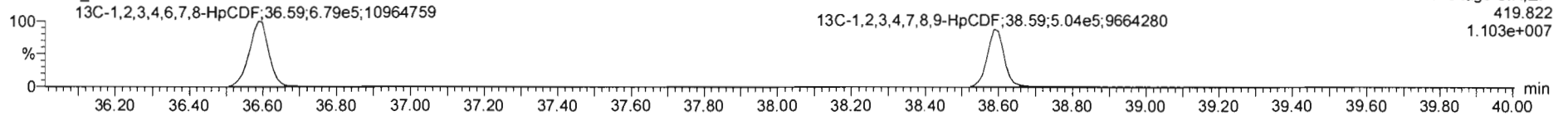
13C-1,2,3,4,6,7,8-HpCDF

200121R1_5



F4: Voltage SIR, EI+
417.825
4.547e+006

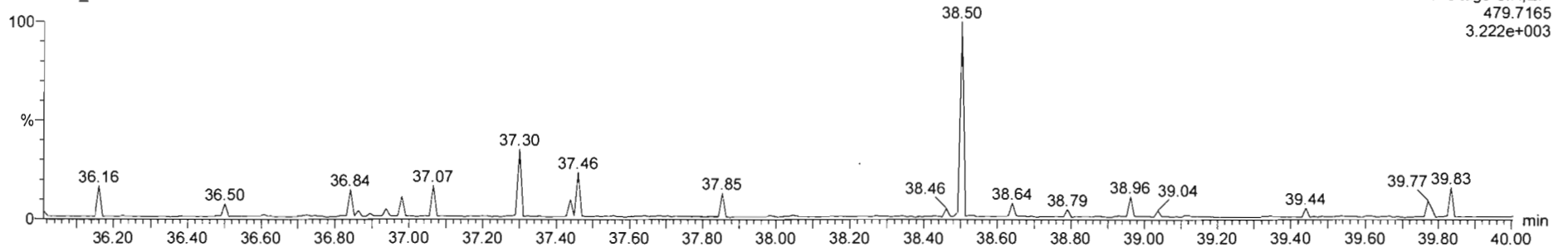
200121R1_5



F4: Voltage SIR, EI+
419.822
1.103e+007

DPE4

200121R1_5



F4: Voltage SIR, EI+
479.7165
3.222e+003

Dataset: Untitled

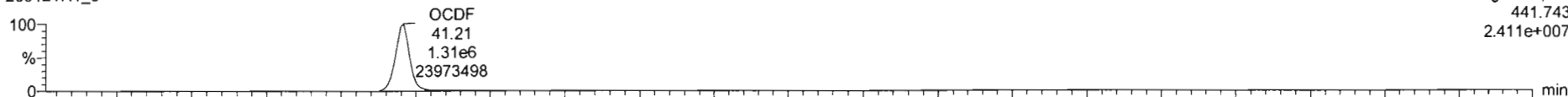
Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Name: 200121R1_5, Date: 21-Jan-2020, Time: 17:19:23, ID: ST200121R1_5 1613 CS4 19C2205, Description: 1613 CS4 19C2205

OCDF

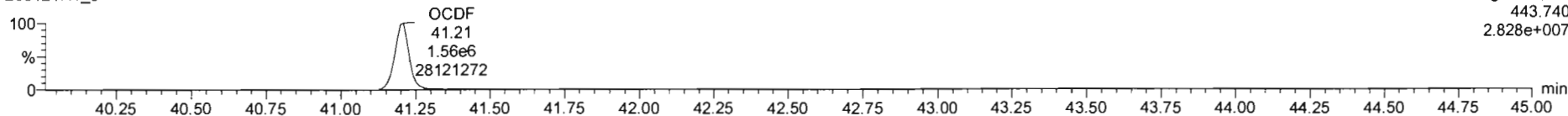
200121R1_5

F5:Voltage SIR,EI+
441.743
2.411e+007



200121R1_5

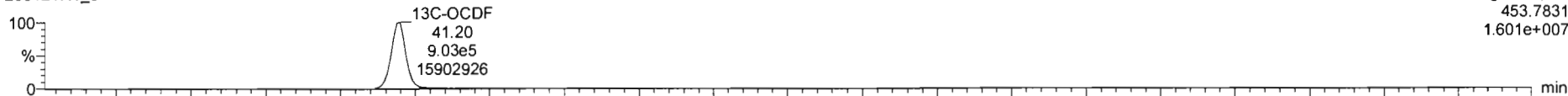
F5:Voltage SIR,EI+
443.740
2.828e+007



13C-OCDF

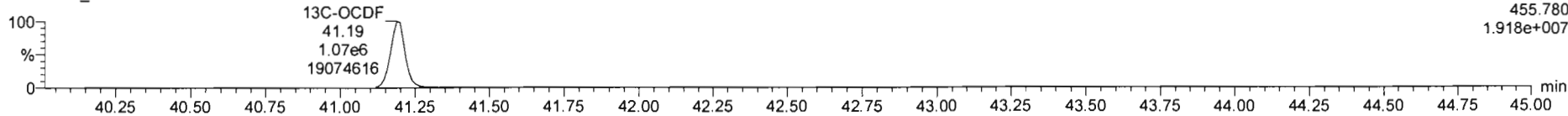
200121R1_5

F5:Voltage SIR,EI+
453.7831
1.601e+007



200121R1_5

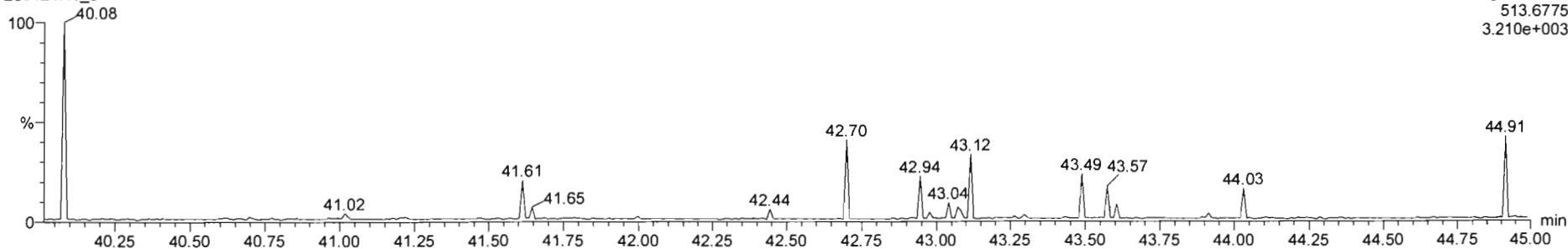
F5:Voltage SIR,EI+
455.780
1.918e+007



DPE5

200121R1_5

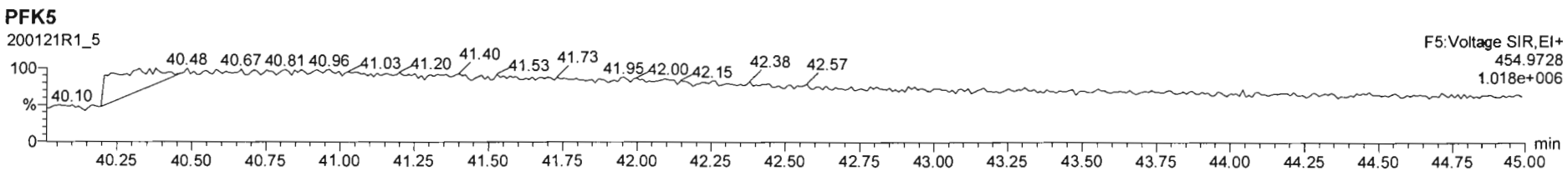
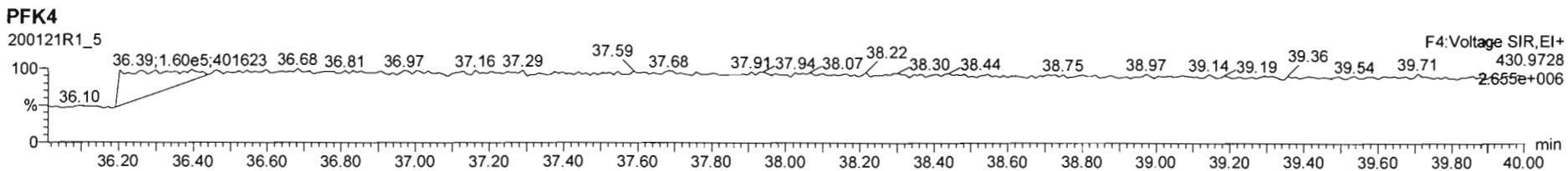
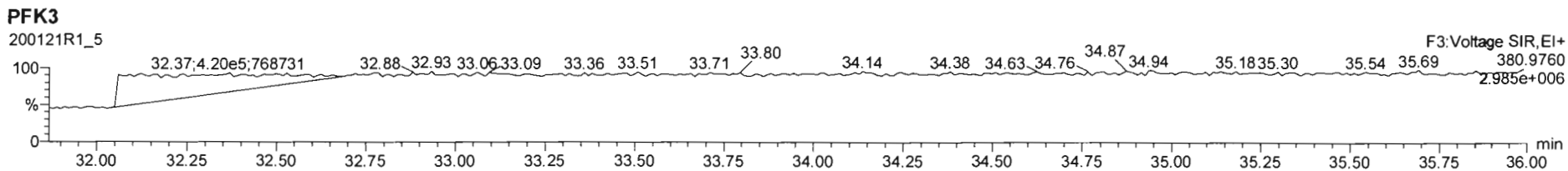
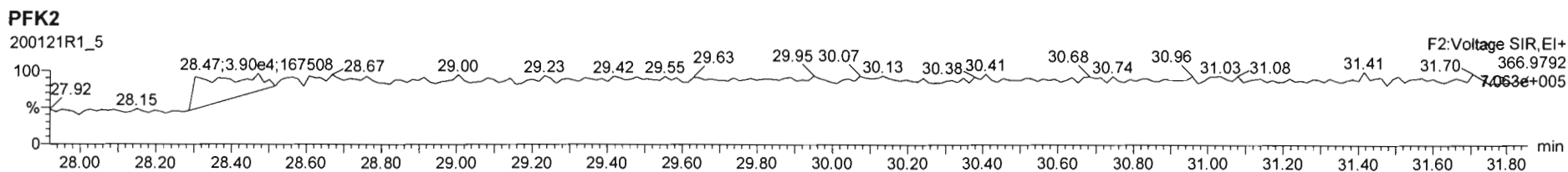
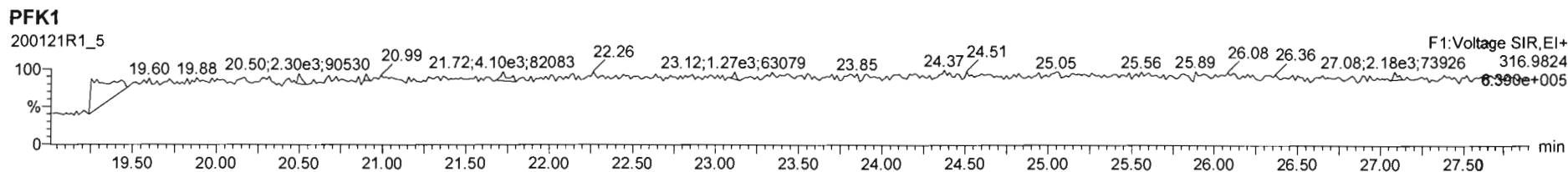
F5:Voltage SIR,EI+
513.6775
3.210e+003



Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Name: 200121R1_5, Date: 21-Jan-2020, Time: 17:19:23, ID: ST200121R1_5 1613 CS4 19C2205, Description: 1613 CS4 19C2205



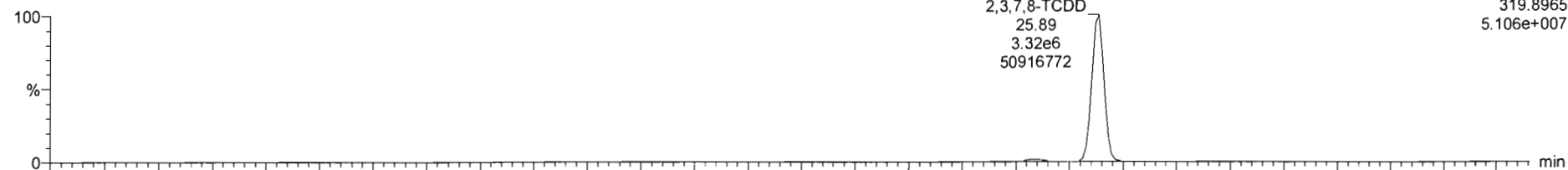
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Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

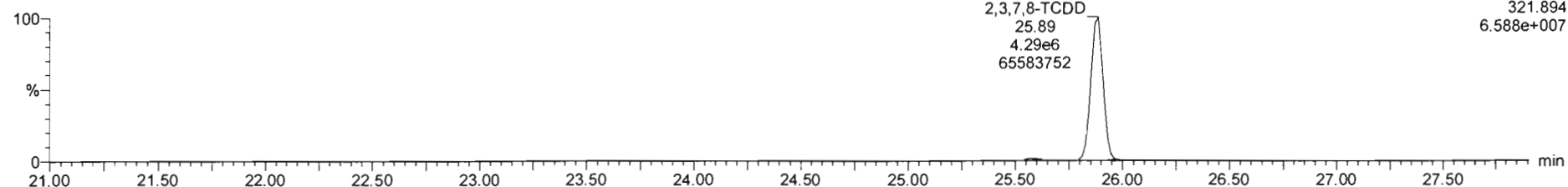
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2,3,7,8-TCDD

200121R1_6

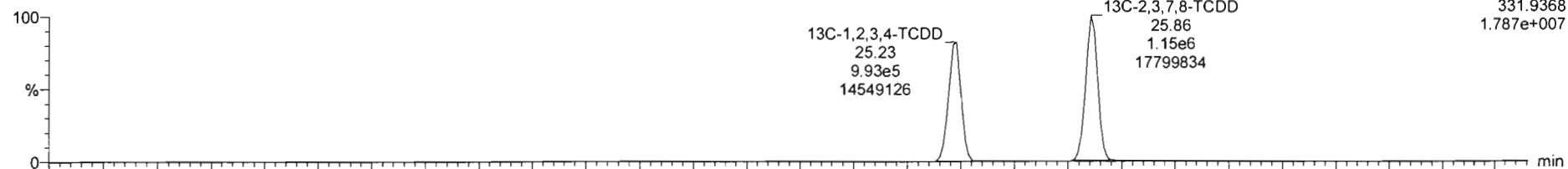


200121R1_6

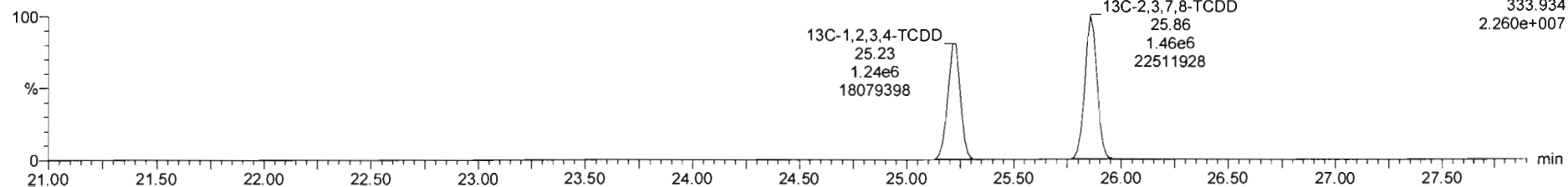


13C-2,3,7,8-TCDD

200121R1_6



200121R1_6

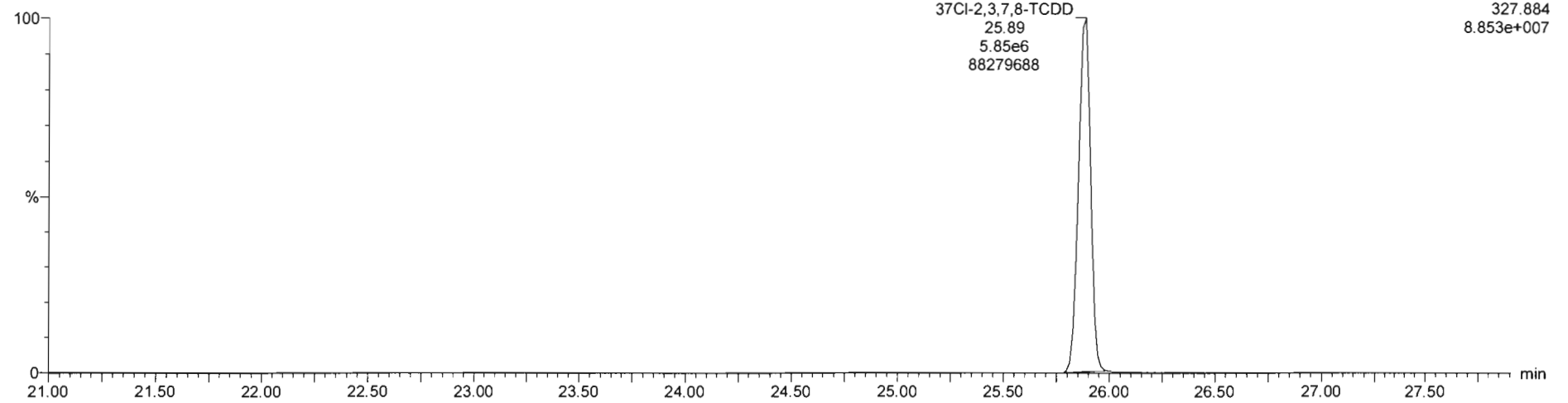


Dataset: Untitled

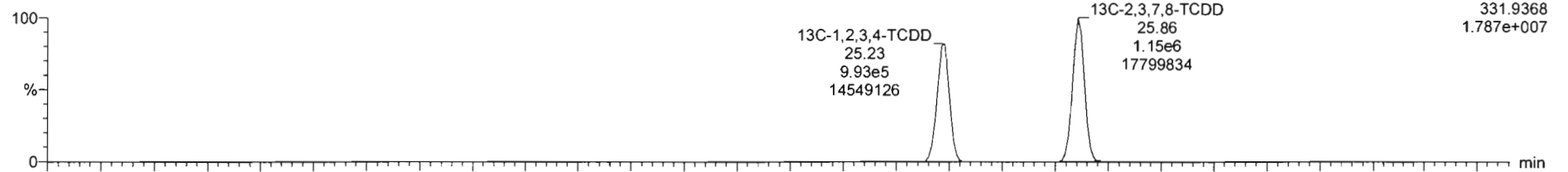
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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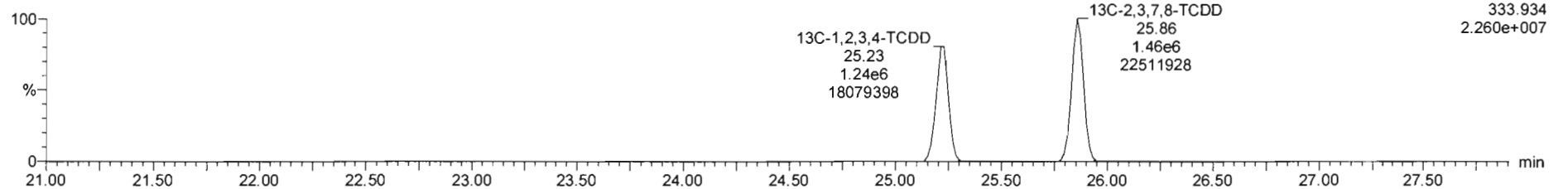
37Cl-2,3,7,8-TCDD
200121R1_6



13C-1,2,3,4-TCDD
200121R1_6



200121R1_6



Dataset: Untitled

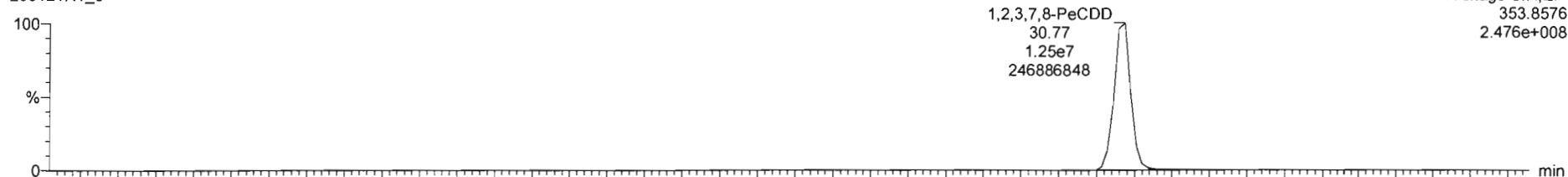
Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time

Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

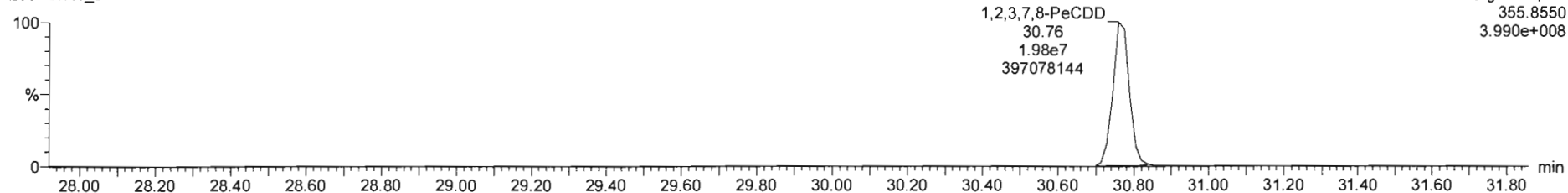
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1,2,3,7,8-PeCDD

200121R1_6

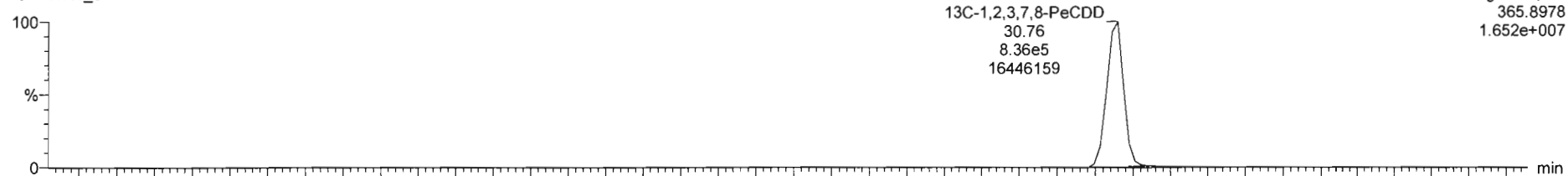


200121R1_6

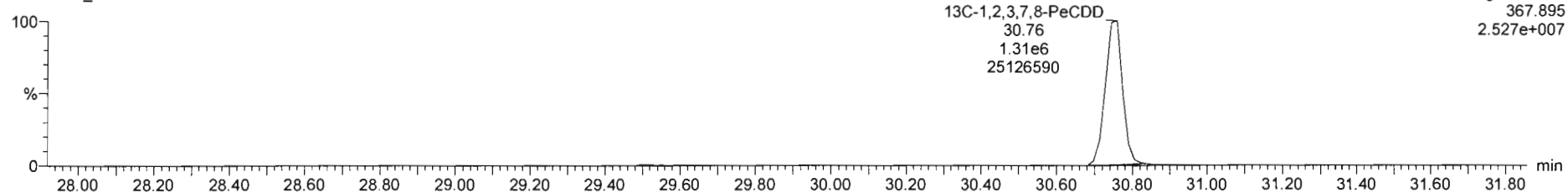


13C-1,2,3,7,8-PeCDD

200121R1_6



200121R1_6



Dataset: Untitled

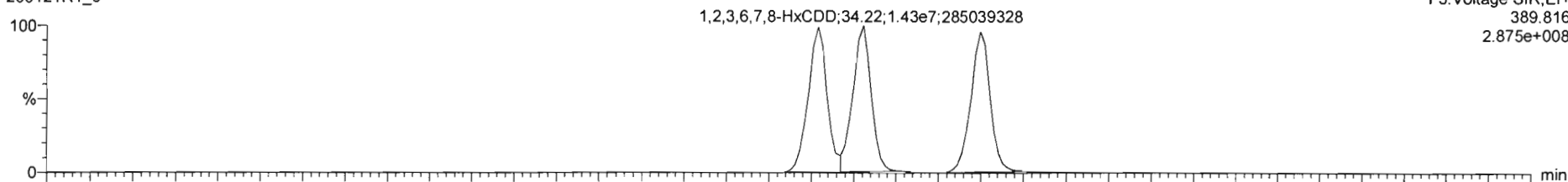
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

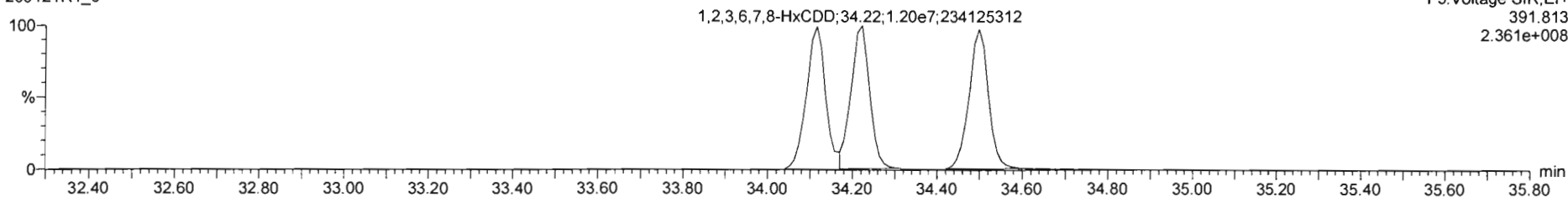
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1,2,3,4,7,8-HxCDD

200121R1_6

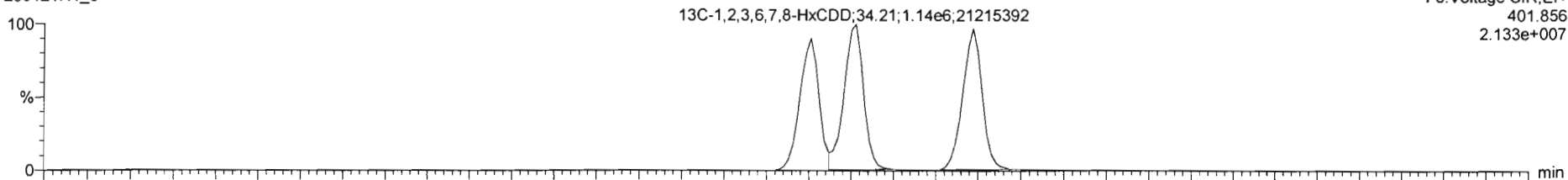


200121R1_6

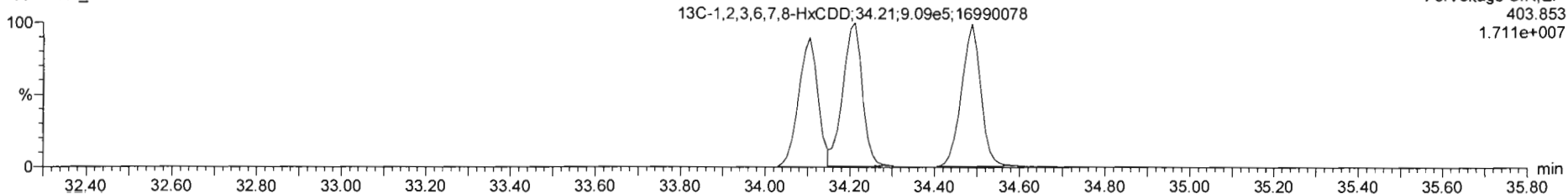


13C-1,2,3,4,7,8-HxCDD

200121R1_6



200121R1_6



Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time

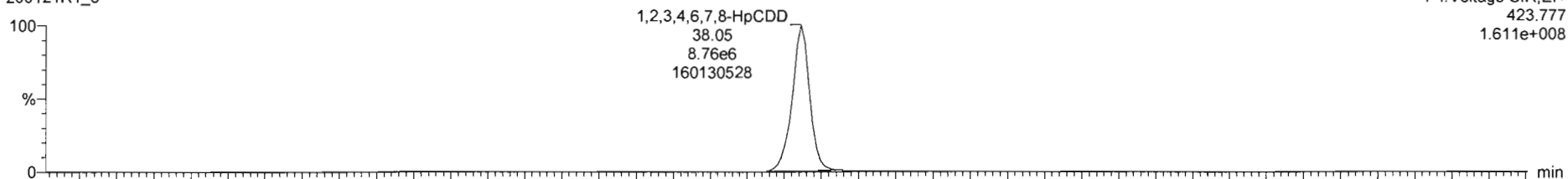
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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

200121R1_6

F4:Voltage SIR,EI+

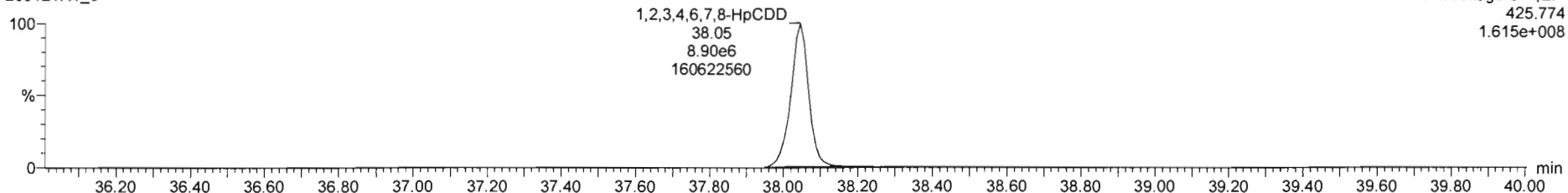


423.777

1.611e+008

200121R1_6

F4:Voltage SIR,EI+



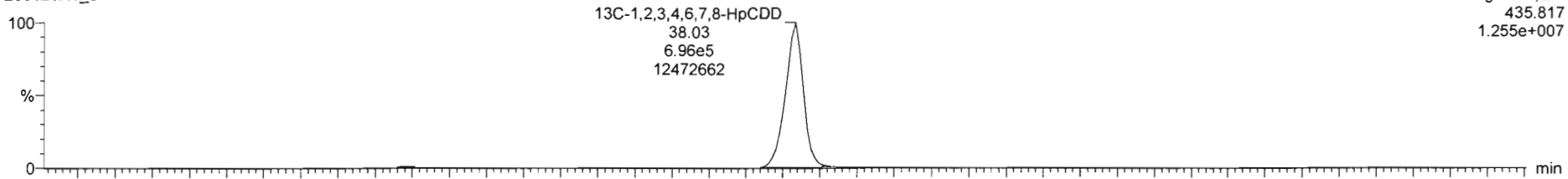
425.774

1.615e+008

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

200121R1_6

F4:Voltage SIR,EI+

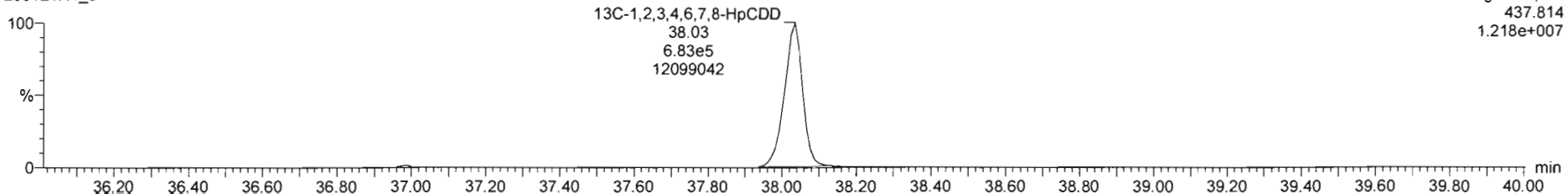


435.817

1.255e+007

200121R1_6

F4:Voltage SIR,EI+



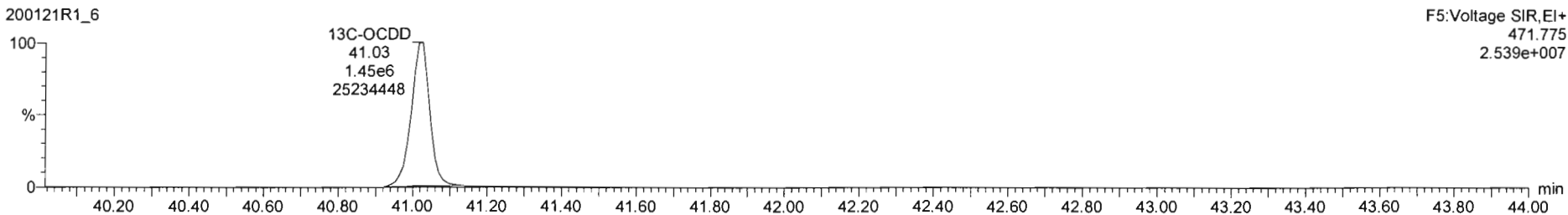
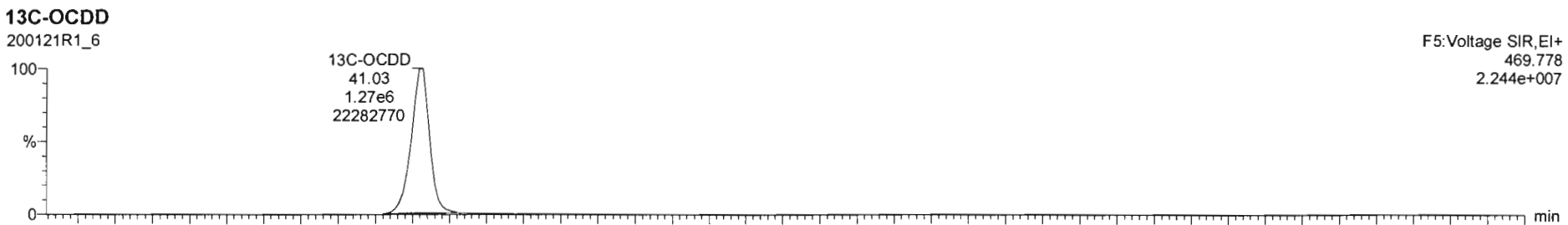
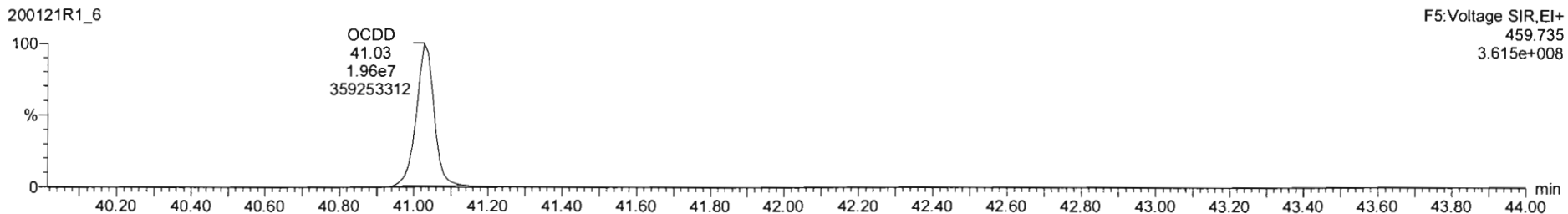
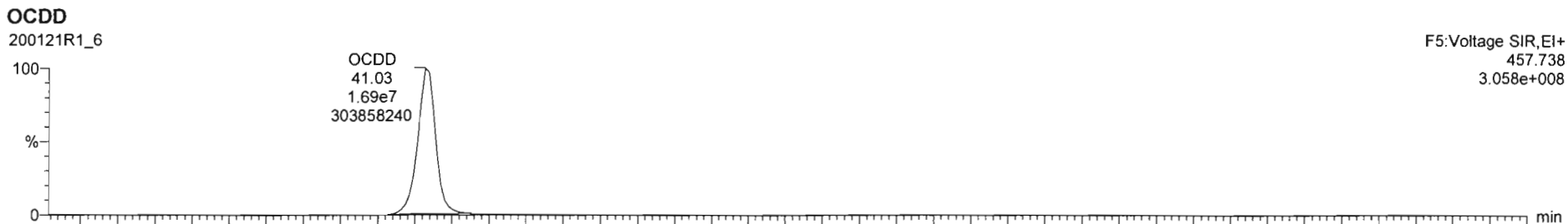
437.814

1.218e+007

Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

Name: 200121R1_6, Date: 21-Jan-2020, Time: 18:06:23, ID: ST200121R1_6 1613 CS5 19C2206, Description: 1613 CS5 19C2206



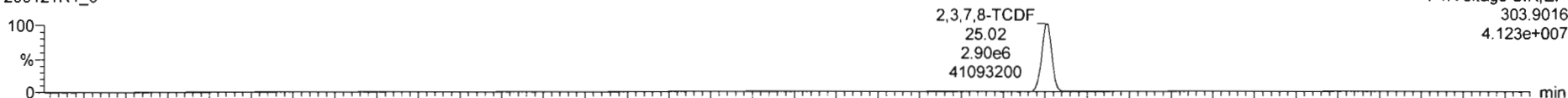
Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

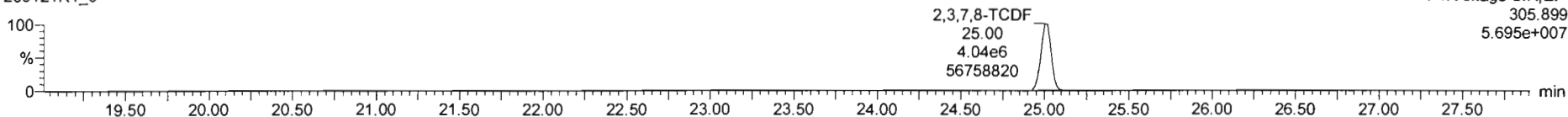
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2,3,7,8-TCDF

200121R1_6

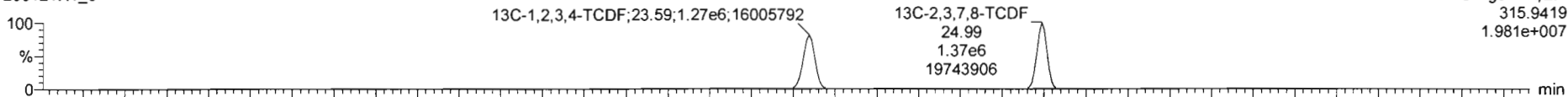


200121R1_6

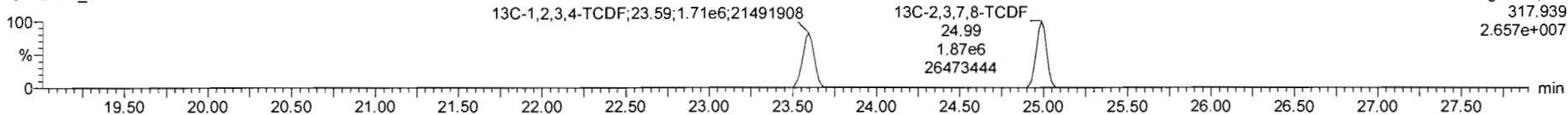


13C-2,3,7,8-TCDF

200121R1_6

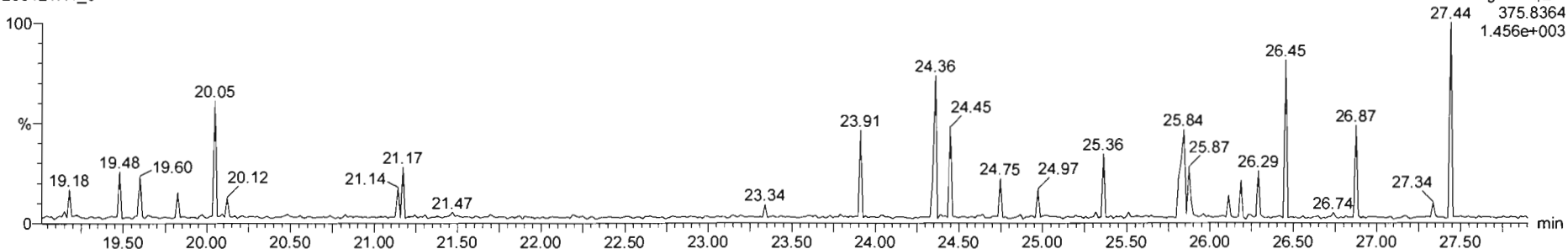


200121R1_6



DPE1

200121R1_6



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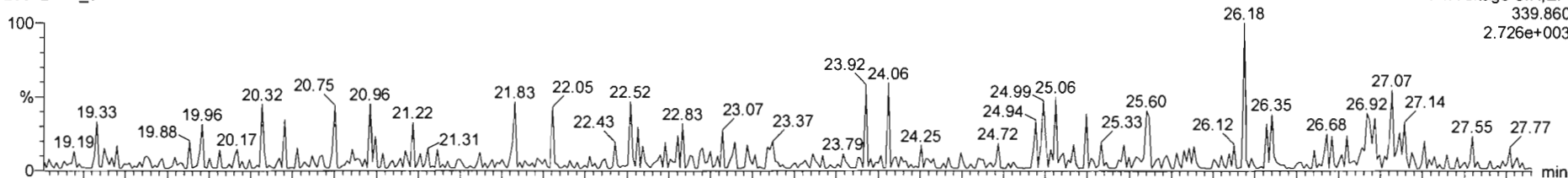
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Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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1st Func. Penta-Furans

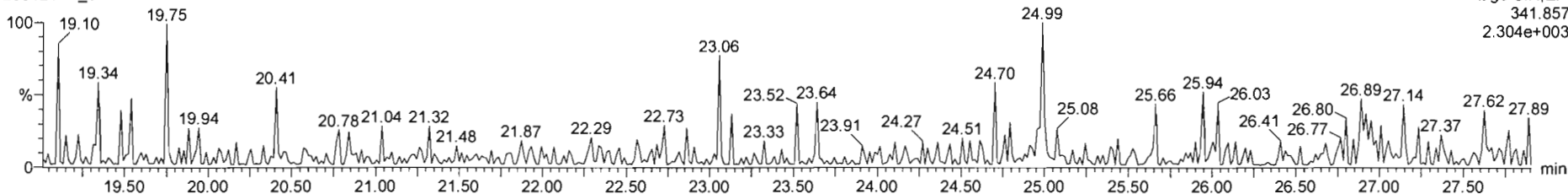
200121R1_6

F1: Voltage SIR, EI+
339.860
2.726e+003



200121R1_6

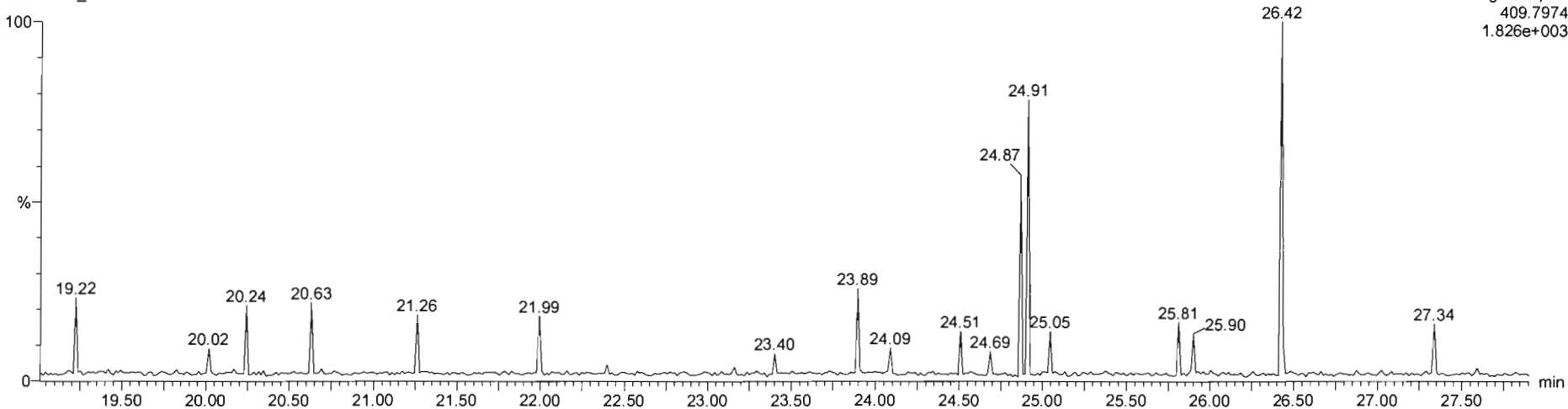
F1: Voltage SIR, EI+
341.857
2.304e+003



DPE6

200121R1_6

F1: Voltage SIR, EI+
409.794
1.826e+003



Dataset: Untitled

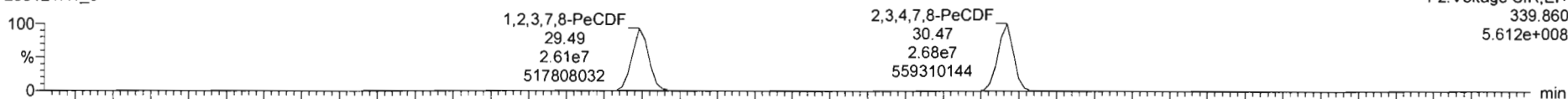
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1,2,3,7,8-PeCDF

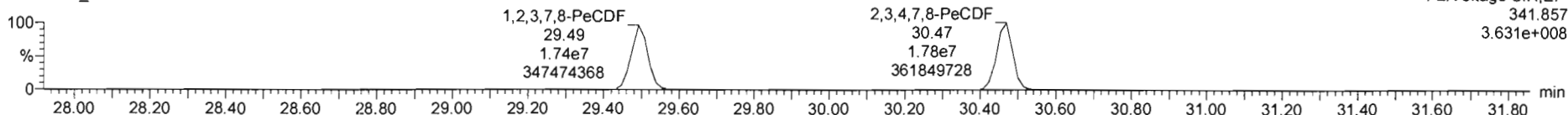
200121R1_6

F2:Voltage SIR,EI+
339.860
5.612e+008



200121R1_6

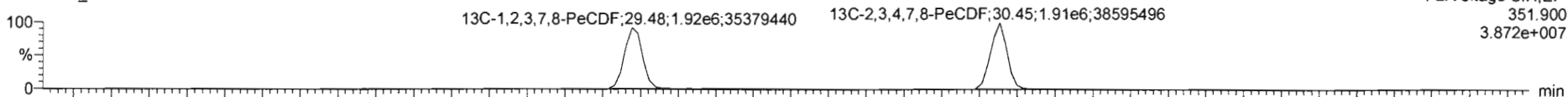
F2:Voltage SIR,EI+
341.857
3.631e+008



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

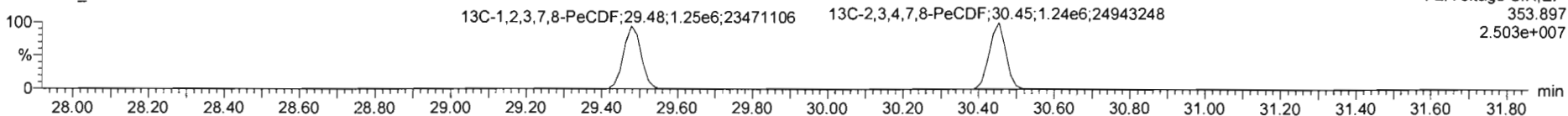
200121R1_6

F2:Voltage SIR,EI+
351.900
3.872e+007



200121R1_6

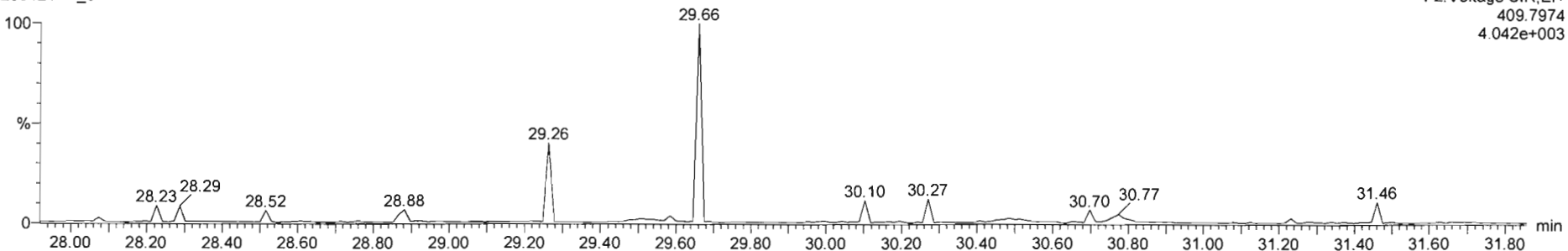
F2:Voltage SIR,EI+
353.897
2.503e+007



DPE2

200121R1_6

F2:Voltage SIR,EI+
409.7974
4.042e+003



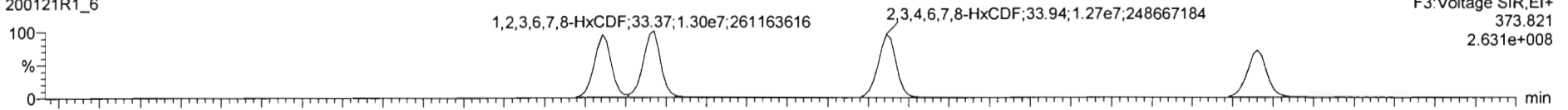
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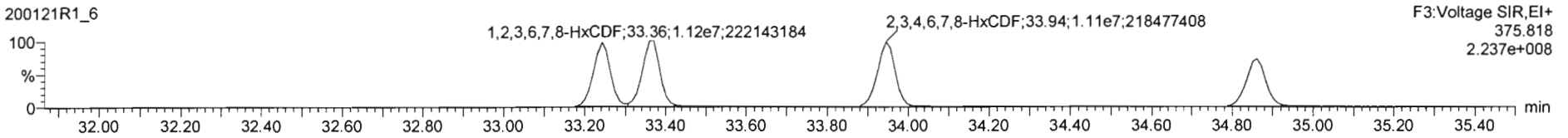
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1,2,3,4,7,8-HxCDF

200121R1_6

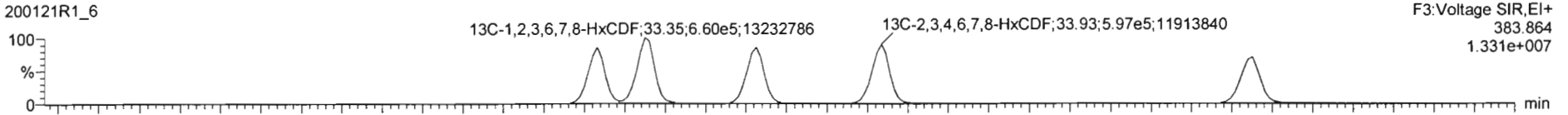


200121R1_6

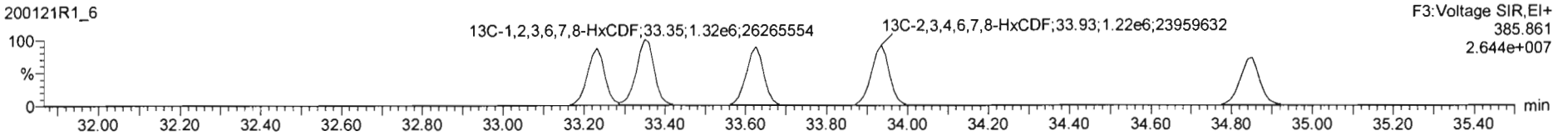


13C-1,2,3,4,7,8-HxCDF

200121R1_6

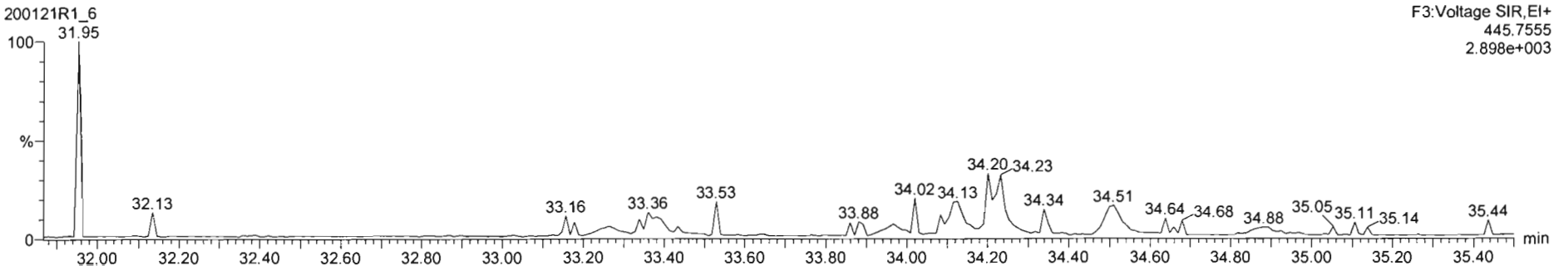


200121R1_6



DPE3

200121R1_6



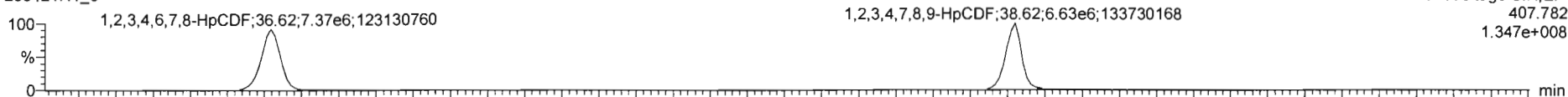
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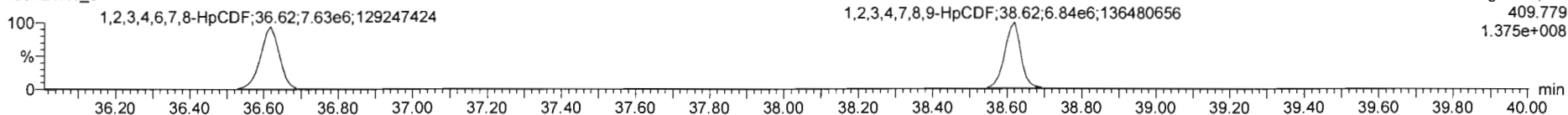
1,2,3,4,6,7,8-HpCDF

200121R1_6



F4: Voltage SIR, EI+
407.782
1.347e+008

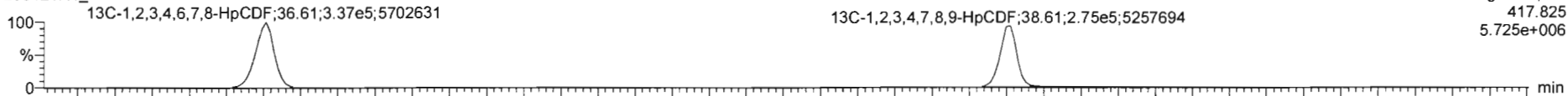
200121R1_6



F4: Voltage SIR, EI+
409.779
1.375e+008

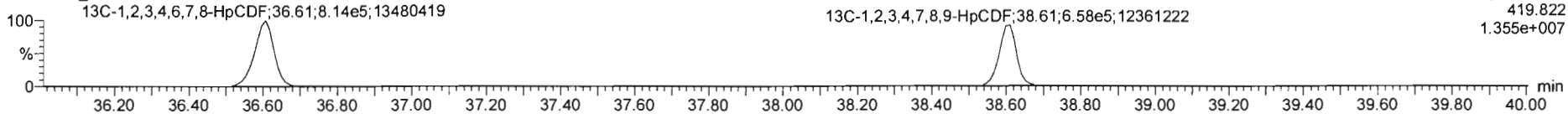
13C-1,2,3,4,6,7,8-HpCDF

200121R1_6



F4: Voltage SIR, EI+
417.825
5.725e+006

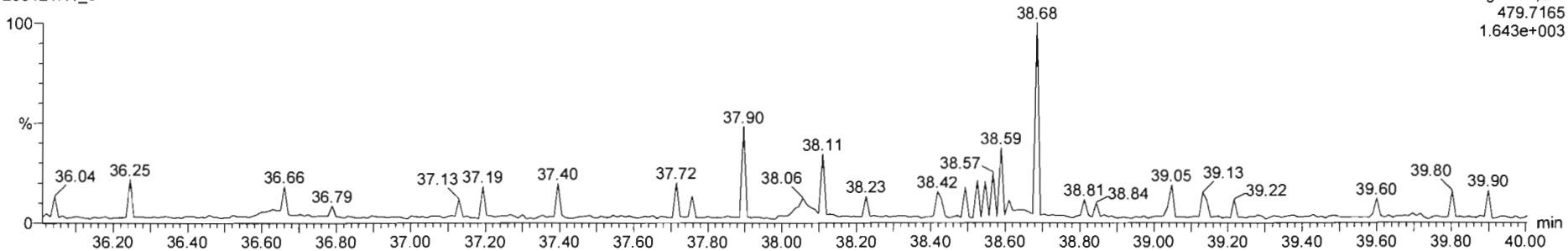
200121R1_6



F4: Voltage SIR, EI+
419.822
1.355e+007

DPE4

200121R1_6

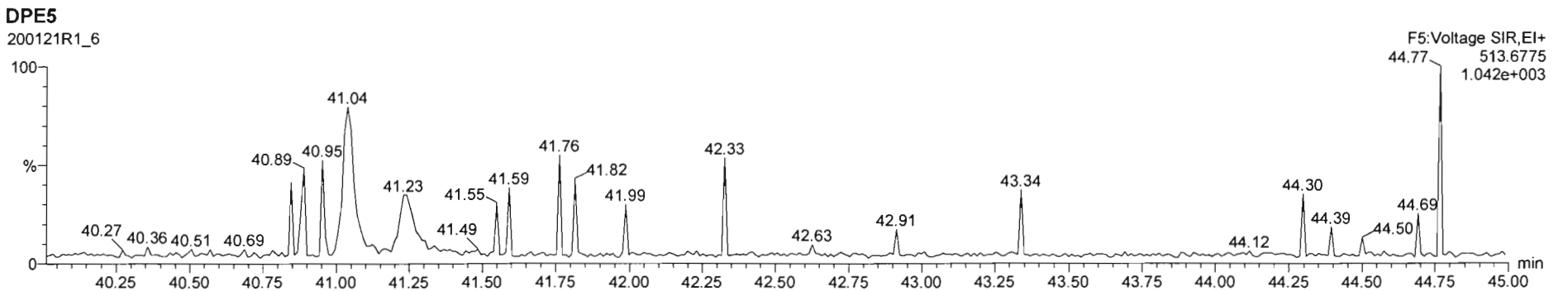
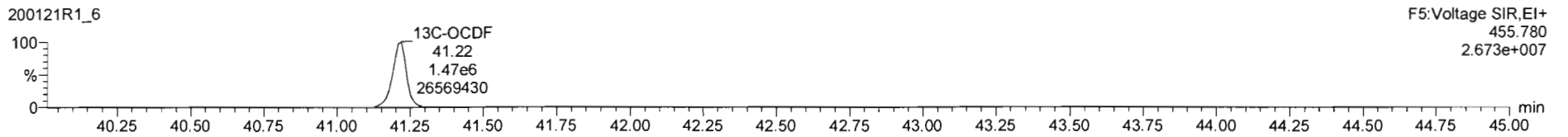
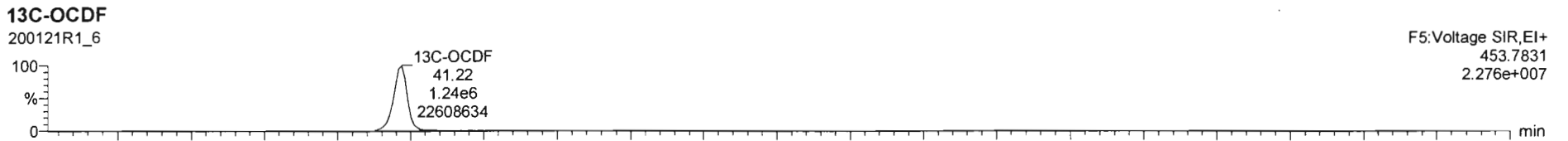
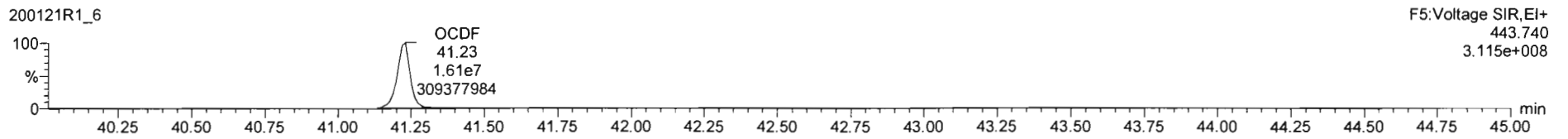
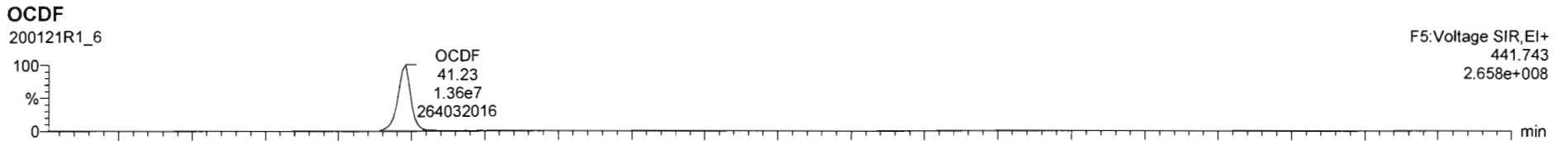


F4: Voltage SIR, EI+
479.7165
1.643e+003

Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:03:58 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:17:36 Pacific Standard Time

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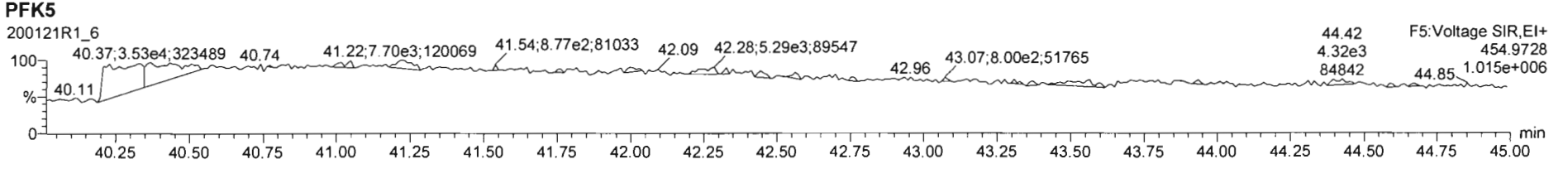
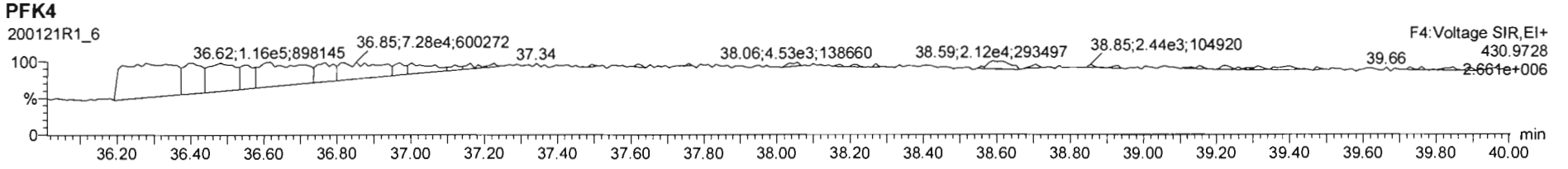
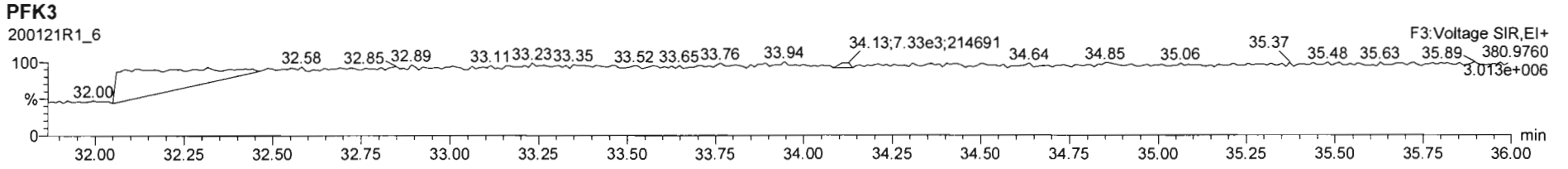
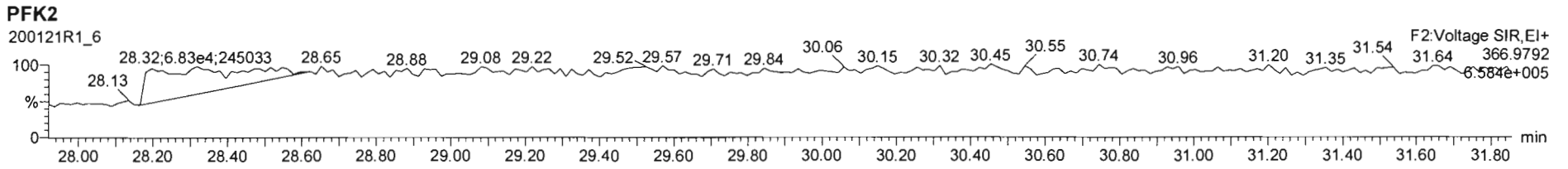
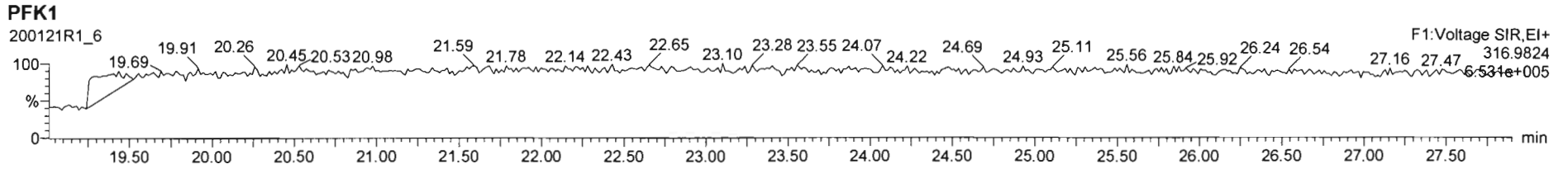


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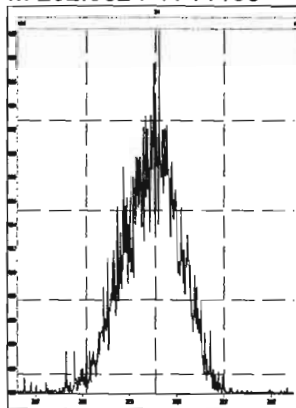
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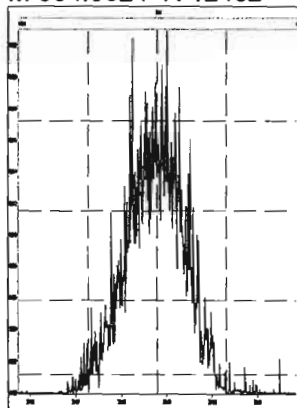
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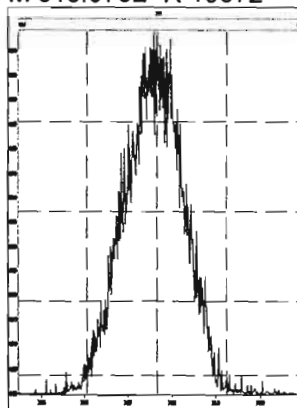
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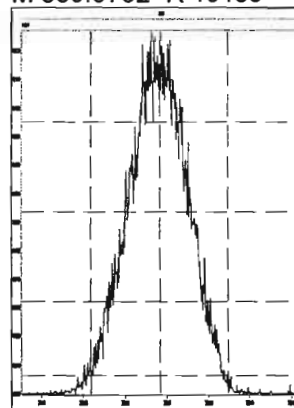
M 304.9824 R 12462



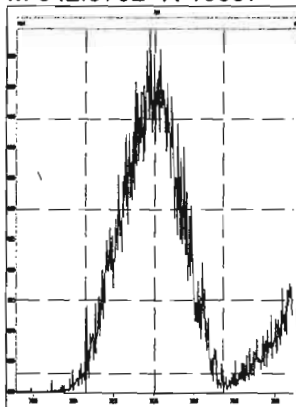
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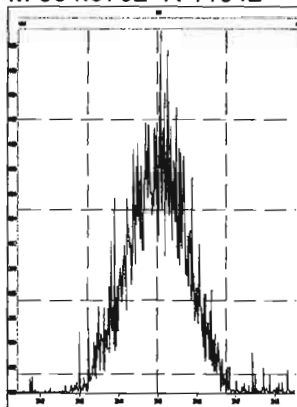
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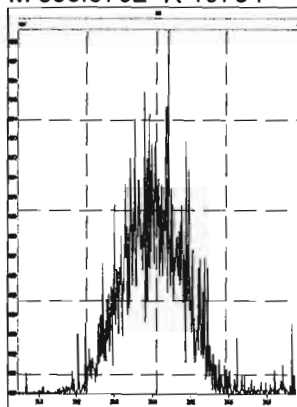
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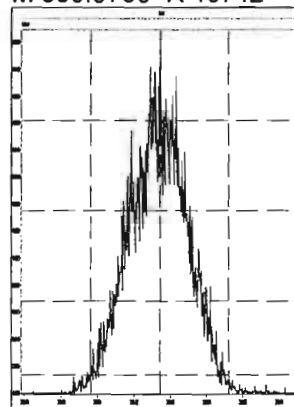
M 354.9792 R 11012



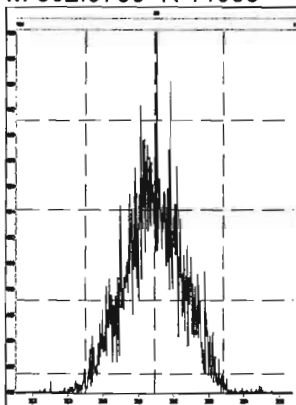
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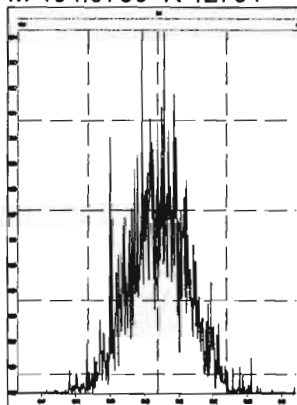
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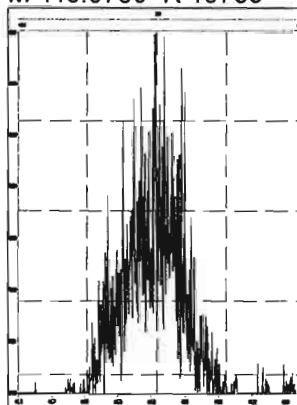
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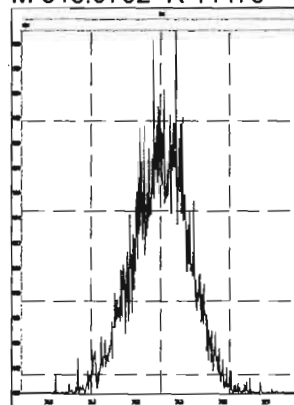
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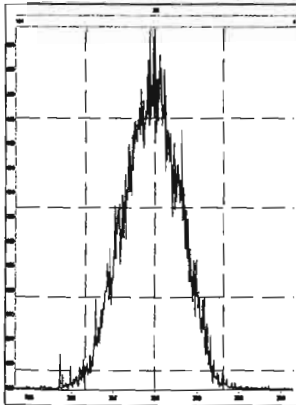
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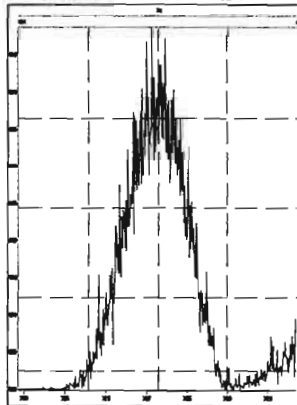
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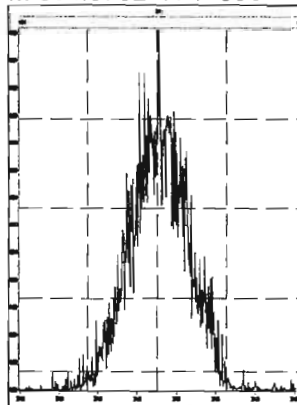
M 330.9792 R 10835



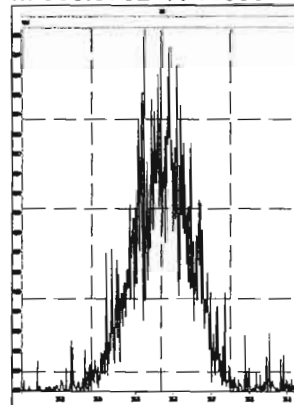
M 342.9792 R 11211



M 354.9792 R 11393

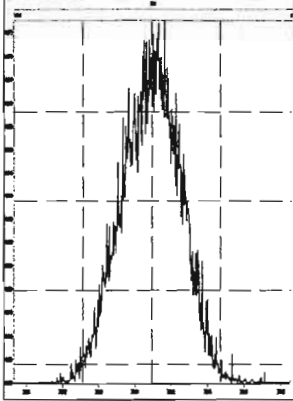


M 366.9792 R 11805

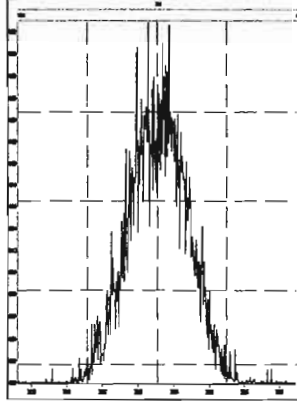


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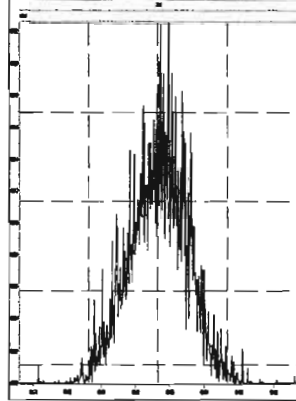
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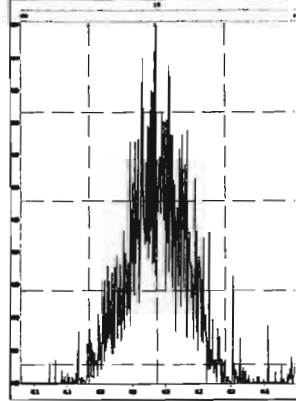
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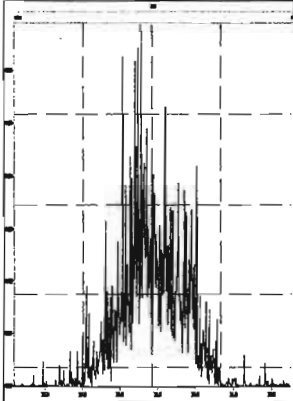
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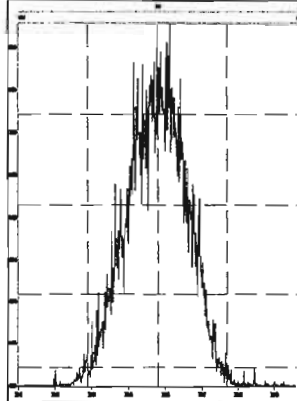
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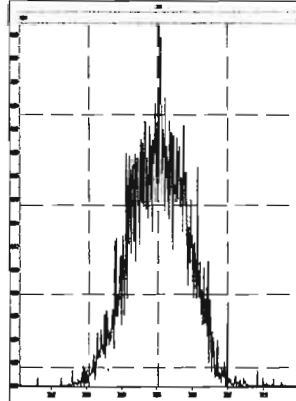
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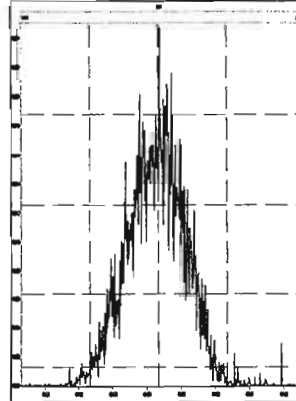
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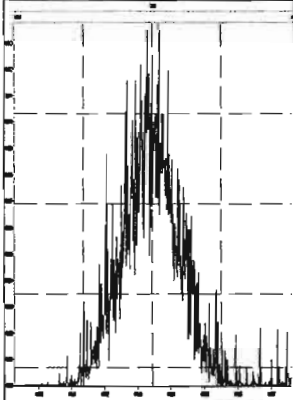
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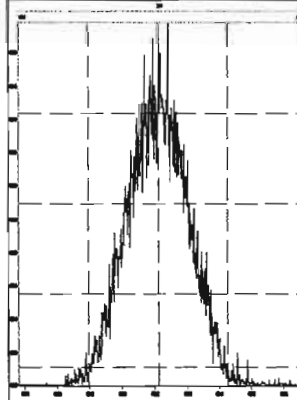
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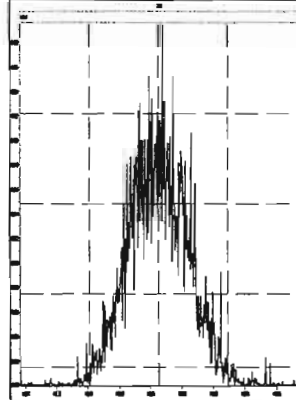
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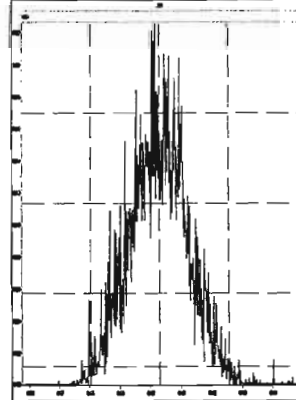
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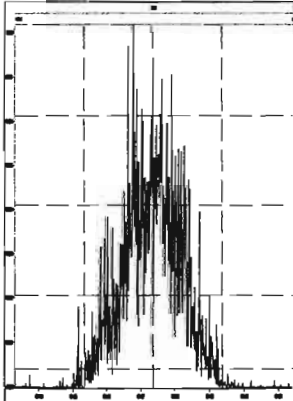
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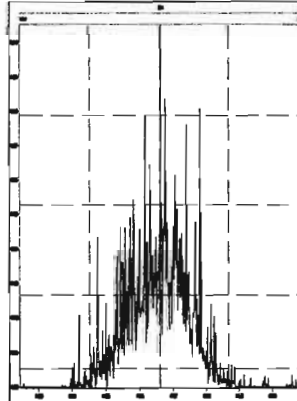
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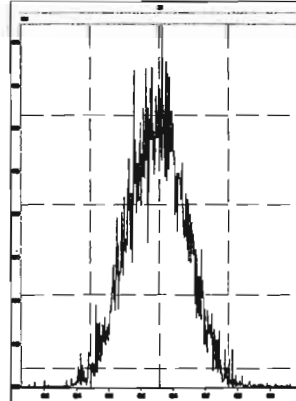
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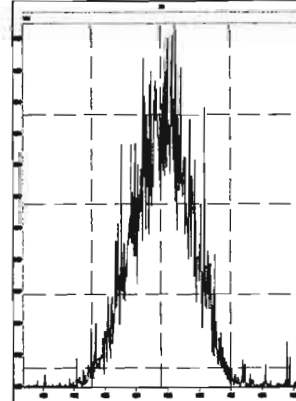
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M 430.9728 R 10869

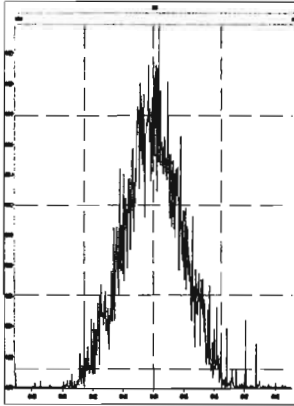


M 442.9728 R 11821

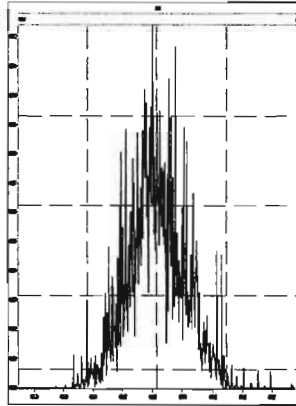


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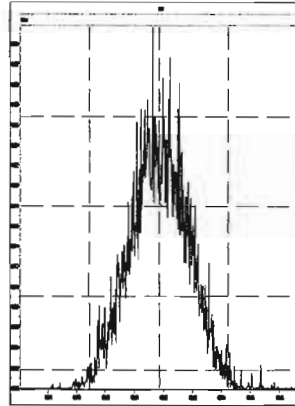
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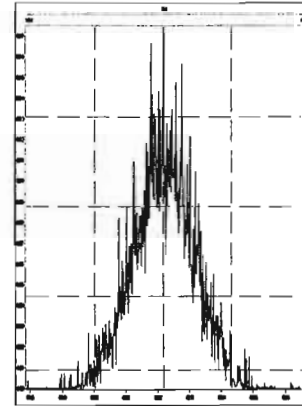
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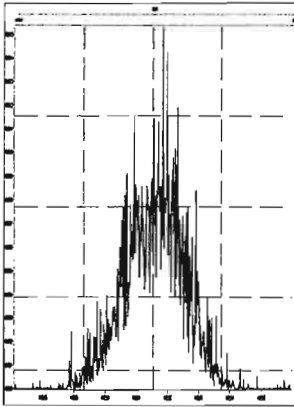
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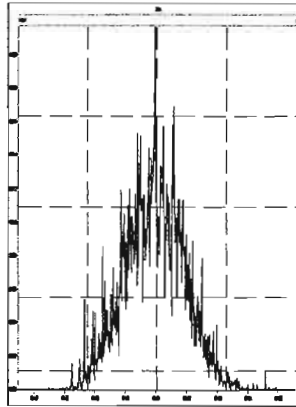
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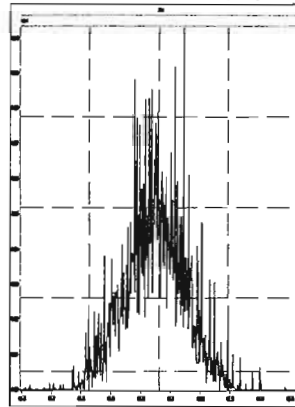
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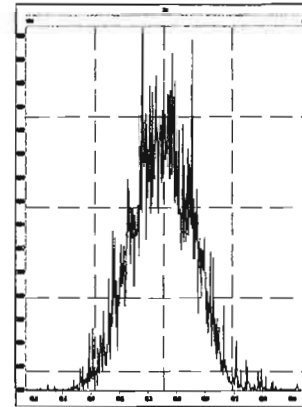
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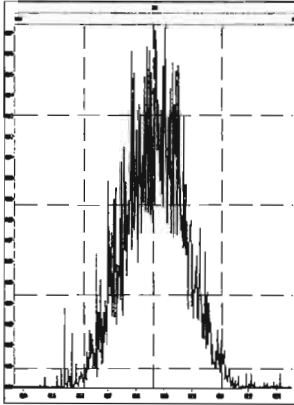
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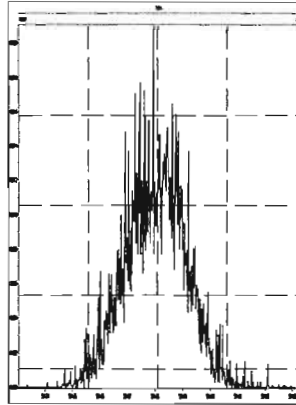
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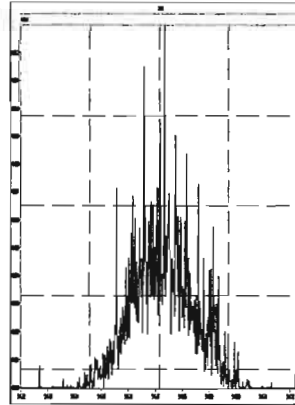
M 492.9696 R 10580



M 504.9696 R 11062



M 516.9697 R 12334



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Last Altered: Wednesday, January 22, 2020 09:58:49 Pacific Standard Time
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DB 1/22/20

CT 01/22/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-15-20.mdb 21 Jan 2020 11:10:24
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200121R1_8, Date: 21-Jan-2020, Time: 19:40:22, ID: SS200121R1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.84e5	0.75	NO	0.824	1.000	25.871	25.85	1.001	1.001	10.441	104	0.0185	10.4
2	2 1,2,3,7,8-PeCDD	8.04e5	0.61	NO	0.912	1.000	30.765	30.76	1.001	1.000	53.036	106	0.0418	53.0
3	3 1,2,3,4,7,8-HxCDD	6.31e5	1.22	NO	0.870	1.000	34.093	34.10	1.000	1.001	54.796	110	0.0648	54.8
4	4 1,2,3,6,7,8-HxCDD	6.59e5	1.17	NO	0.784	1.000	34.190	34.21	1.000	1.001	55.282	111	0.0657	55.3
5	5 1,2,3,7,8,9-HxCDD	6.26e5	1.21	NO	0.798	1.000	34.512	34.49	1.001	1.000	54.538	109	0.0692	54.5
6	6 1,2,3,4,6,7,8-HpCDD	4.01e5	1.00	NO	0.737	1.000	38.025	38.03	1.000	1.001	54.358	109	0.0994	54.4
7	7 OCDD	7.82e5	0.85	NO	0.800	1.000	40.995	41.01	1.000	1.000	107.95	108	0.0650	108
8	8 2,3,7,8-TCDF	1.73e5	0.70	NO	0.588	1.000	24.997	24.99	1.001	1.001	10.947	109	0.0219	10.9
9	9 1,2,3,7,8-PeCDF	1.07e6	1.51	NO	0.826	1.000	29.482	29.48	1.001	1.001	52.282	105	0.0451	52.3
10	10 2,3,4,7,8-PeCDF	1.24e6	1.51	NO	0.850	1.000	30.469	30.45	1.001	1.001	59.189	118	0.0427	59.2
11	11 1,2,3,4,7,8-HxCDF	5.59e5	1.16	NO	0.787	1.000	33.221	33.23	1.000	1.000	57.856	116	0.0767	57.9
12	12 1,2,3,6,7,8-HxCDF	6.25e5	1.16	NO	0.720	1.000	33.348	33.35	1.000	1.000	57.011	114	0.0670	57.0
13	13 2,3,4,6,7,8-HxCDF	5.73e5	1.16	NO	0.766	1.000	33.957	33.93	1.001	1.000	54.935	110	0.0772	54.9
14	14 1,2,3,7,8,9-HxCDF	4.61e5	1.16	NO	0.709	1.000	34.829	34.85	1.000	1.001	55.318	111	0.105	55.3
15	15 1,2,3,4,6,7,8-HpCDF	3.69e5	0.96	NO	0.732	1.000	36.623	36.60	1.001	1.000	57.559	115	0.0892	57.6
16	16 1,2,3,4,7,8,9-HpCDF	2.89e5	0.99	NO	0.816	1.000	38.588	38.60	1.000	1.000	56.845	114	0.0888	56.8
17	17 OCDF	6.31e5	0.84	NO	0.639	1.000	41.187	41.20	1.000	1.000	110.02	110	0.0530	110
18	18 13C-2,3,7,8-TCDD	2.14e6	0.78	NO	1.12	1.000	25.844	25.84	1.026	1.026	99.587	99.6	0.0478	
19	19 13C-1,2,3,7,8-PeCDD	1.66e6	0.63	NO	0.841	1.000	30.614	30.74	1.215	1.220	102.80	103	0.0733	
20	20 13C-1,2,3,4,7,8-HxCDD	1.32e6	1.26	NO	0.938	1.000	34.085	34.08	1.014	1.014	94.308	94.3	0.0822	
21	21 13C-1,2,3,6,7,8-HxCDD	1.52e6	1.26	NO	1.07	1.000	34.186	34.19	1.017	1.017	95.435	95.4	0.0724	
22	22 13C-1,2,3,7,8,9-HxCDD	1.44e6	1.22	NO	1.03	1.000	34.488	34.48	1.026	1.026	93.258	93.3	0.0748	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.00e6	1.03	NO	0.710	1.000	38.052	38.01	1.132	1.131	94.380	94.4	0.121	
24	24 13C-OCDD	1.81e6	0.86	NO	0.601	1.000	40.942	41.00	1.218	1.220	201.46	101	0.123	
25	25 13C-2,3,7,8-TCDF	2.69e6	0.74	NO	1.04	1.000	25.020	24.97	0.993	0.991	99.034	99.0	0.0546	
26	26 13C-1,2,3,7,8-PeCDF	2.49e6	1.54	NO	0.917	1.000	29.379	29.46	1.166	1.169	103.45	103	0.0973	
27	27 13C-2,3,4,7,8-PeCDF	2.47e6	1.53	NO	0.903	1.000	30.336	30.44	1.204	1.208	104.43	104	0.0989	
28	28 13C-1,2,3,4,7,8-HxCDF	1.23e6	0.50	NO	0.861	1.000	33.211	33.22	0.988	0.988	95.295	95.3	0.128	
29	29 13C-1,2,3,6,7,8-HxCDF	1.52e6	0.50	NO	1.05	1.000	33.312	33.34	0.991	0.992	97.190	97.2	0.105	
30	30 13C-2,3,4,6,7,8-HxCDF	1.36e6	0.49	NO	0.946	1.000	33.920	33.92	1.009	1.009	96.243	96.2	0.116	
31	31 13C-1,2,3,7,8,9-HxCDF	1.18e6	0.50	NO	0.816	1.000	34.825	34.83	1.036	1.036	96.448	96.4	0.135	

Dataset: U:\VG12.PRO\Results\200121R1\200121R1_SSS.qld

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Printed: Wednesday, January 22, 2020 10:02:30 Pacific Standard Time

Name: 200121R1_8, Date: 21-Jan-2020, Time: 19:40:22, ID: SS200121R1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.76e5	0.41	NO	0.589	1.000	36.573	36.59	1.088	1.088	99.376	99.4	0.141	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.24e5	0.41	NO	0.448	1.000	38.589	38.59	1.148	1.148	93.096	93.1	0.186	
34	34 13C-OCDF	1.80e6	0.85	NO	0.586	1.000	41.178	41.19	1.225	1.225	205.10	103	0.0864	
35	35 37Cl-2,3,7,8-TCDD	2.15e5			1.09	1.000	25.877	25.85	1.027	1.026	10.281	103	0.0115	
36	36 13C-1,2,3,4-TCDD	1.92e6	0.81	NO	1.00	1.000	25.260	25.20	1.000	1.000	100.00	100	0.0534	
37	37 13C-1,2,3,4-TCDF	2.62e6	0.74	NO	1.00	1.000	23.860	23.57	1.000	1.000	100.00	100	0.0566	
38	38 13C-1,2,3,4,6,9-HxCDF	1.50e6	0.49	NO	1.00	1.000	33.590	33.61	1.000	1.000	100.00	100	0.110	

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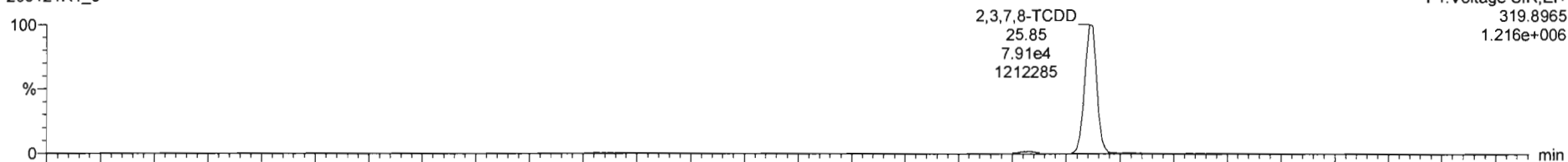
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Printed: Wednesday, January 22, 2020 09:59:05 Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

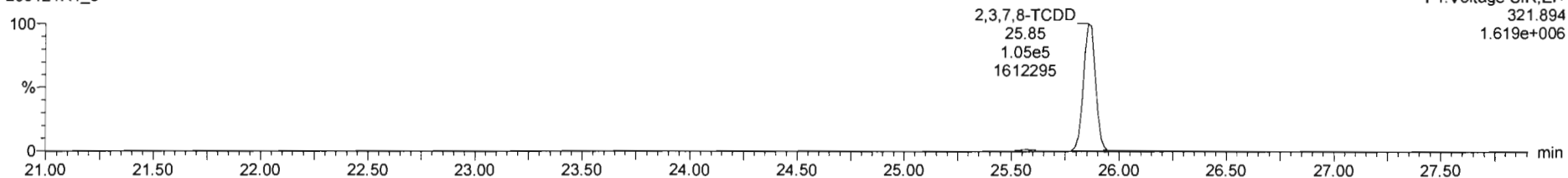
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2,3,7,8-TCDD

200121R1_8

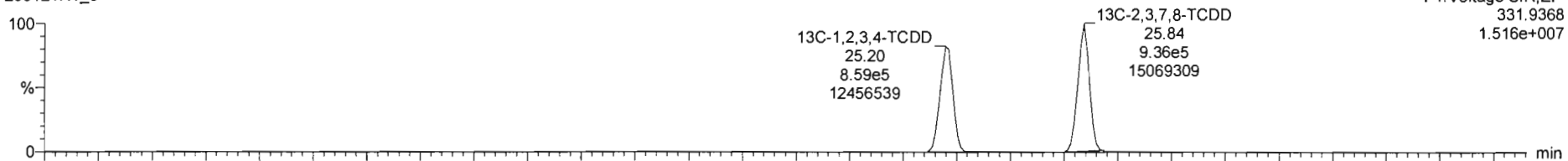


200121R1_8

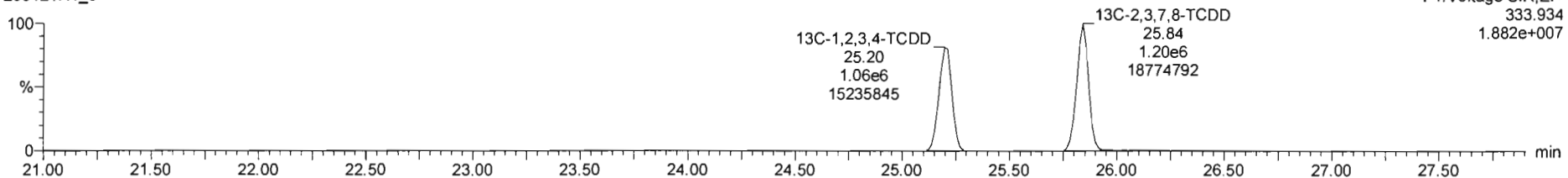


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200121R1_8



200121R1_8



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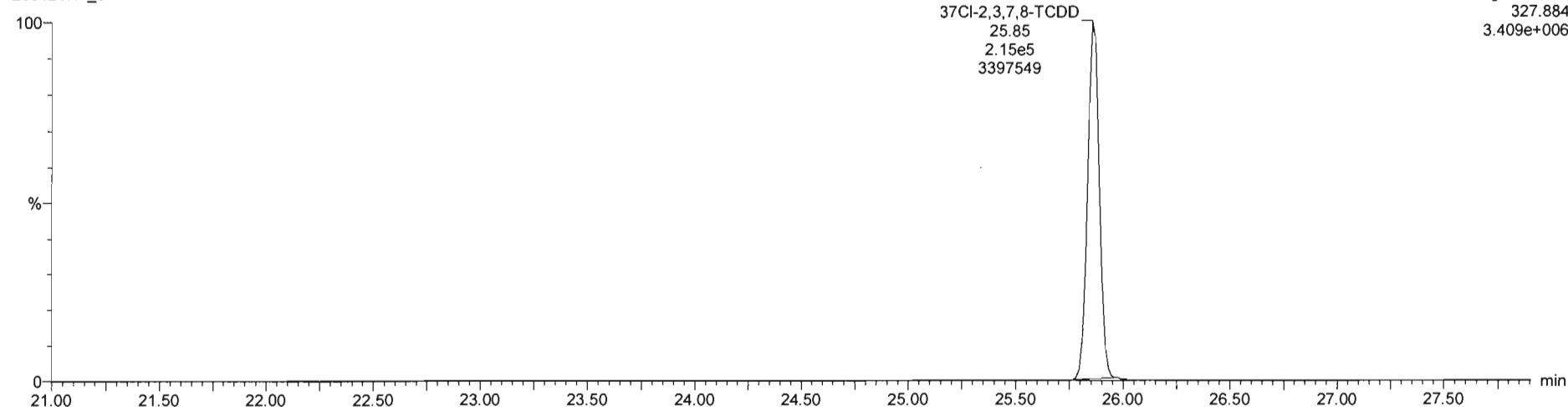
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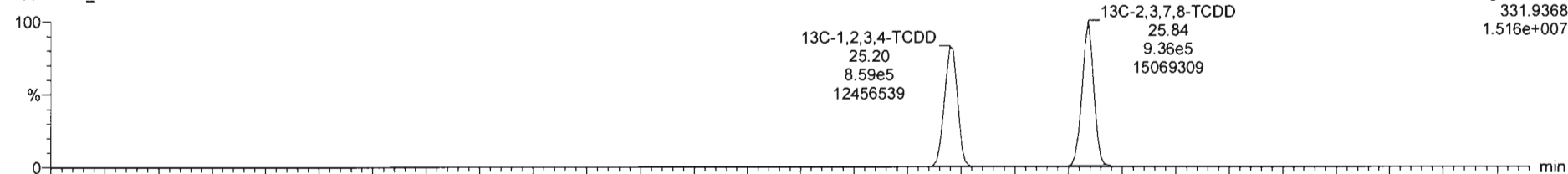
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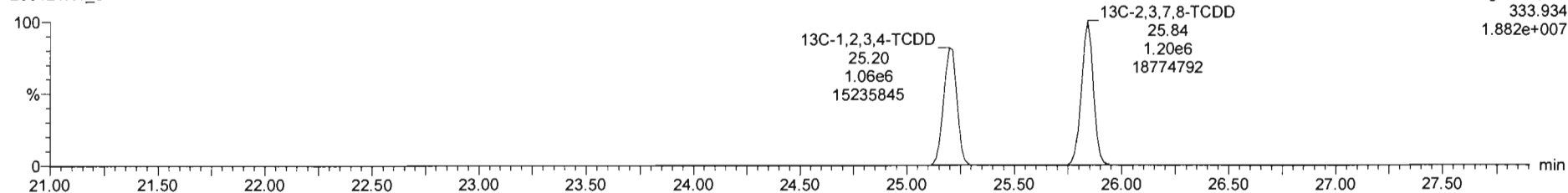


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200121R1_8



200121R1_8



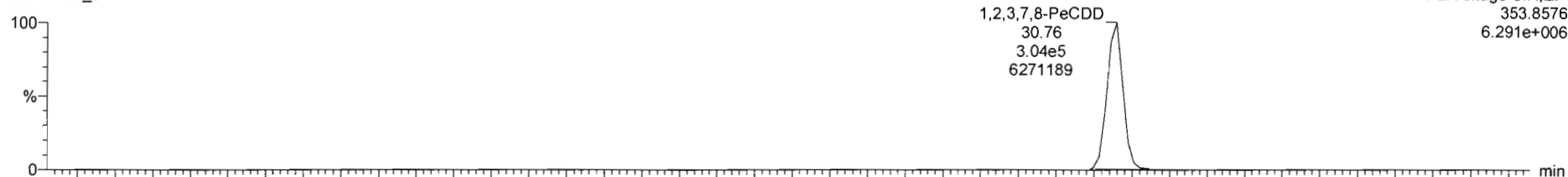
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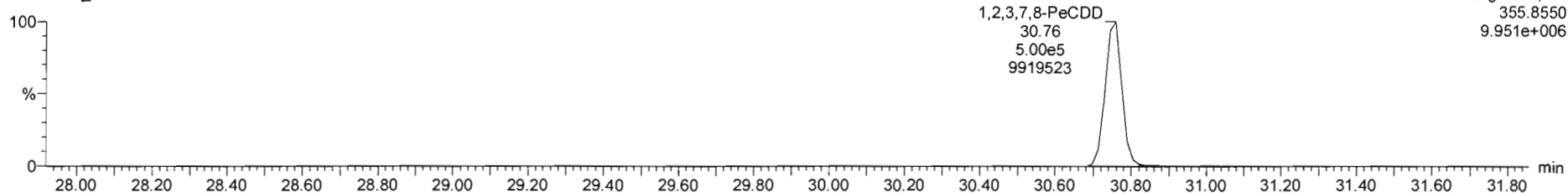
1,2,3,7,8-PeCDD

200121R1_8



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353.8576
6.291e+006

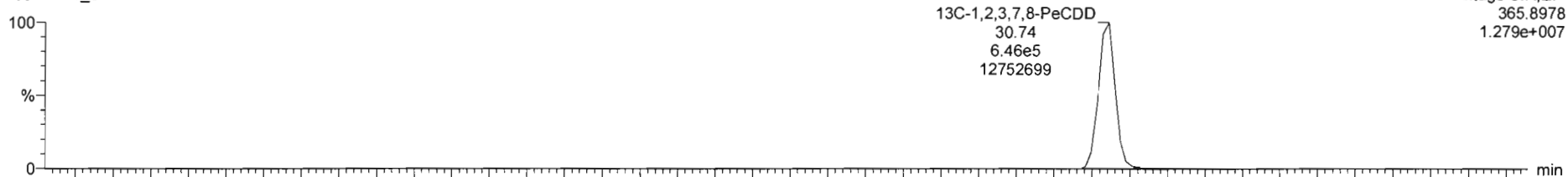
200121R1_8



F2: Voltage SIR, EI+
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9.951e+006

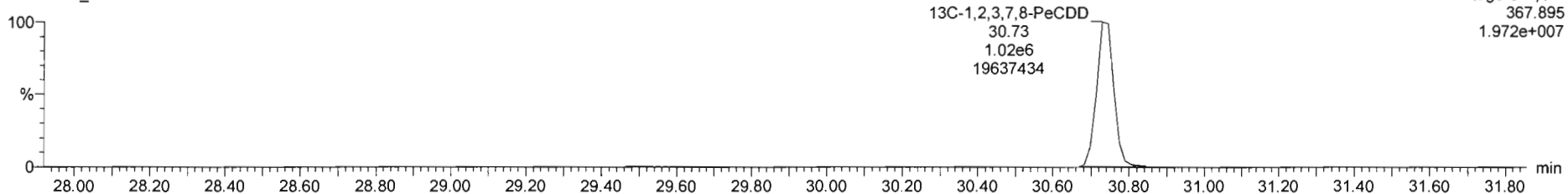
13C-1,2,3,7,8-PeCDD

200121R1_8



F2: Voltage SIR, EI+
365.8978
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200121R1_8



F2: Voltage SIR, EI+
367.895
1.972e+007

Dataset: Untitled

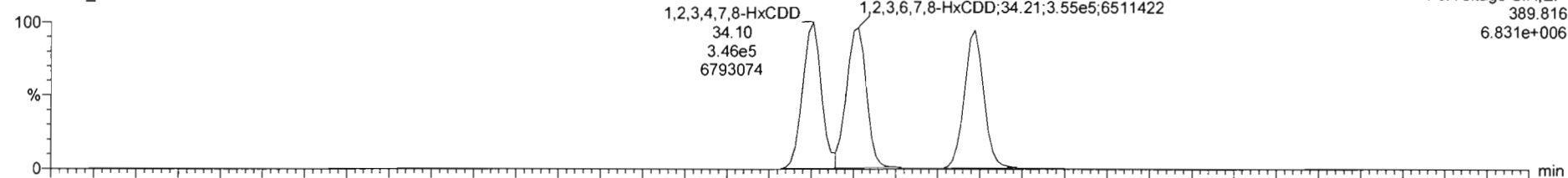
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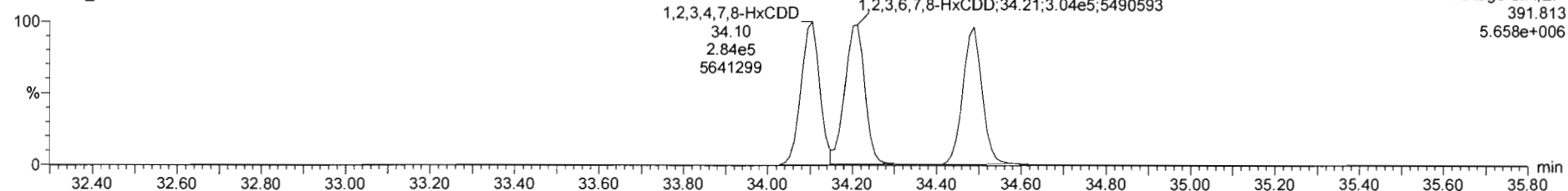
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1,2,3,4,7,8-HxCDD

200121R1_8

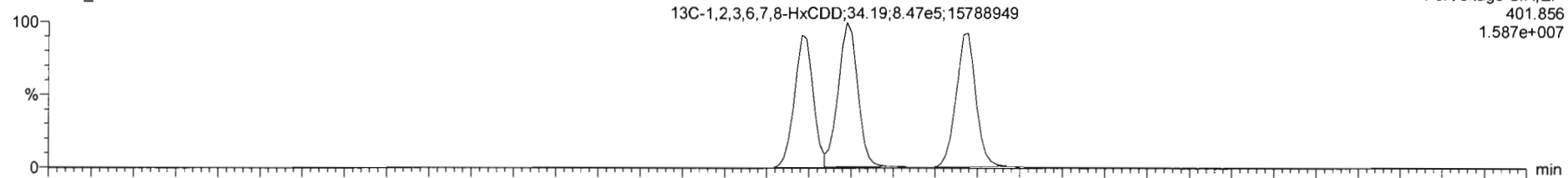


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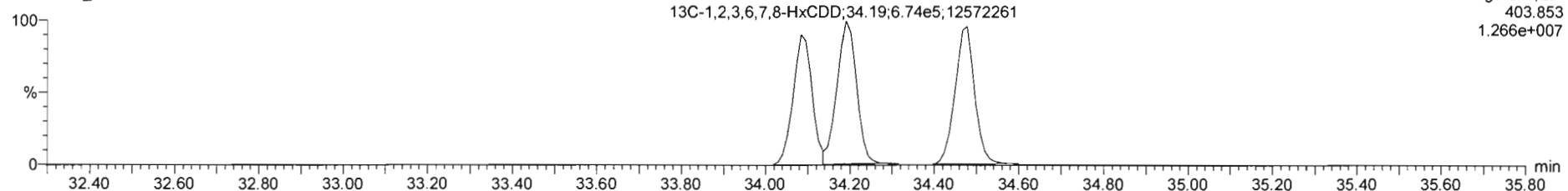


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200121R1_8



200121R1_8



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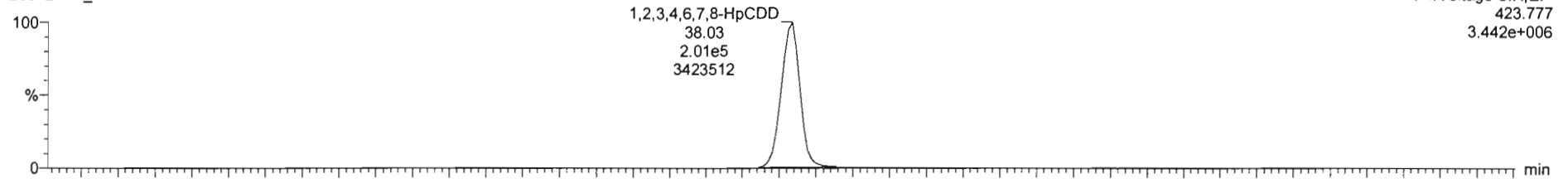
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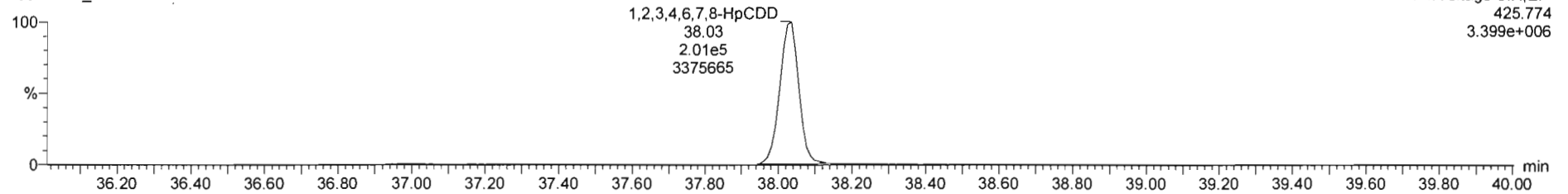
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1,2,3,4,6,7,8-HpCDD

200121R1_8

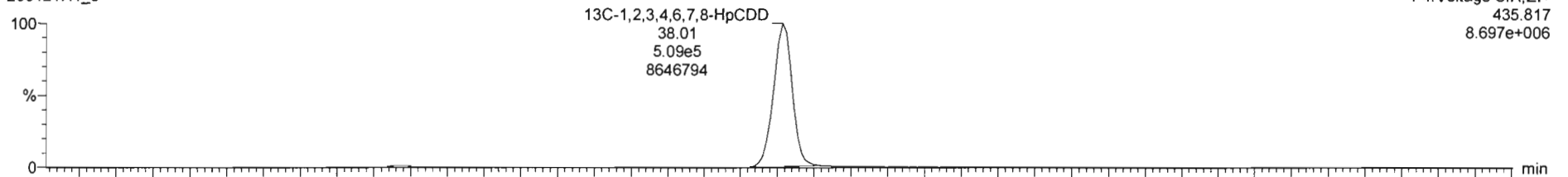


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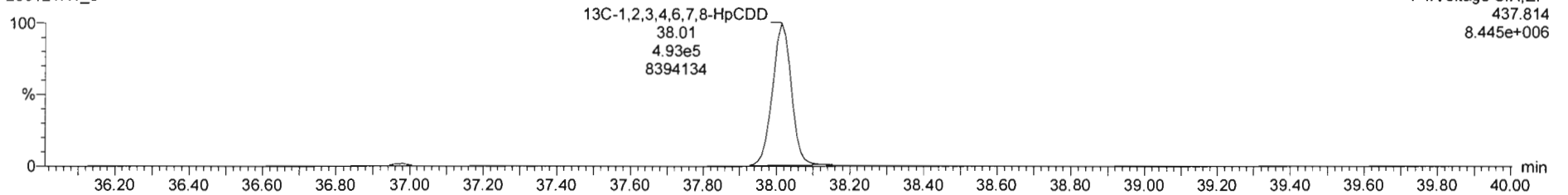


13C-1,2,3,4,6,7,8-HpCDD

200121R1_8



200121R1_8

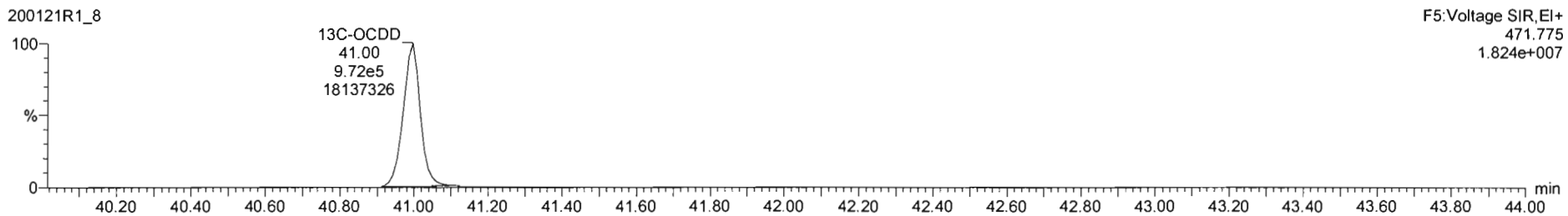
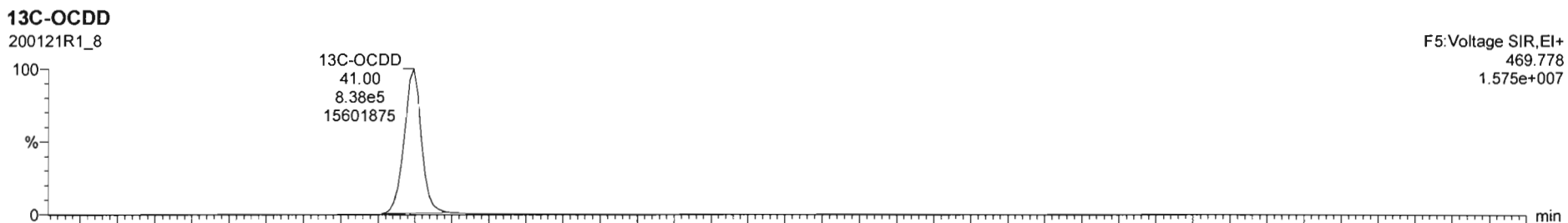
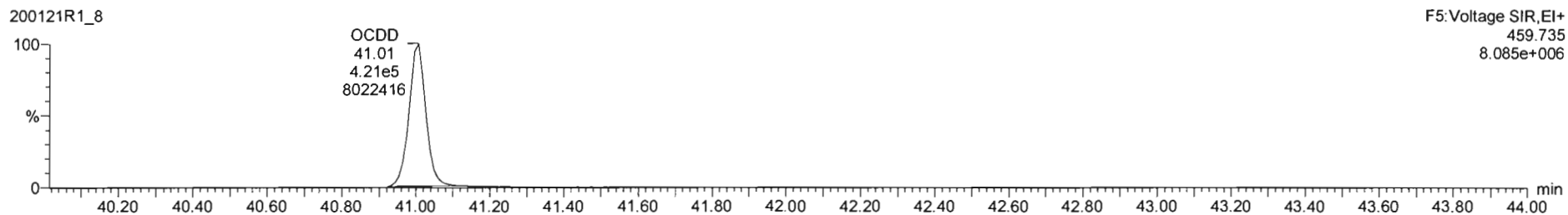
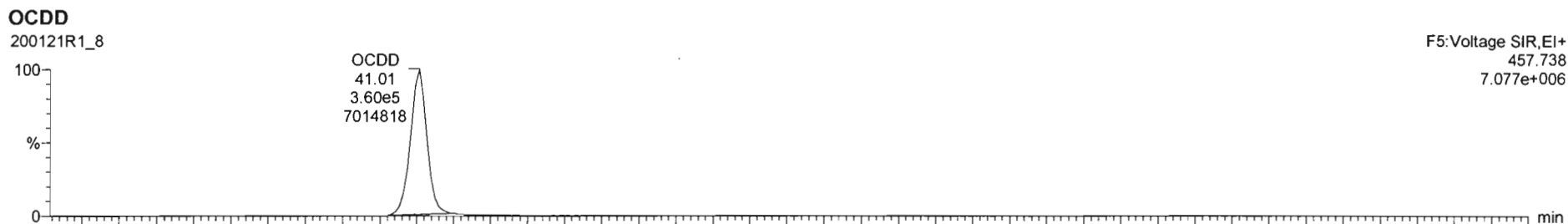


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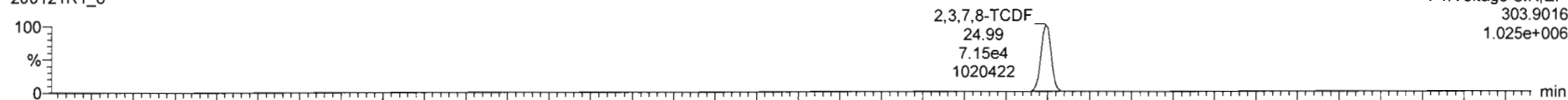
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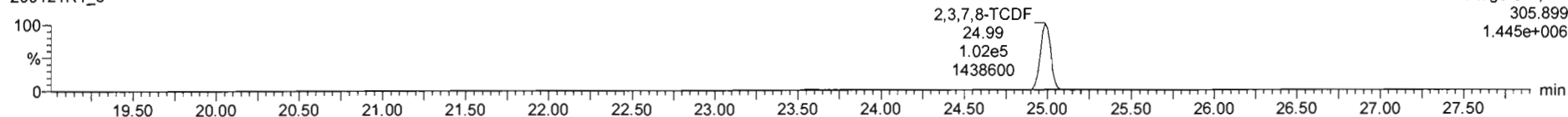
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2,3,7,8-TCDF

200121R1_8

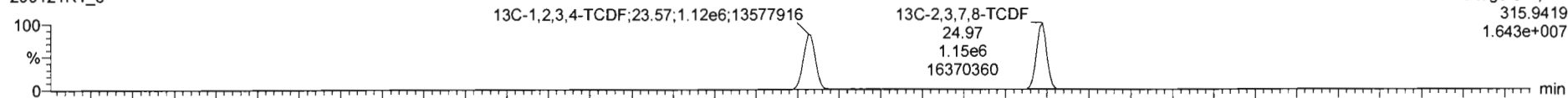


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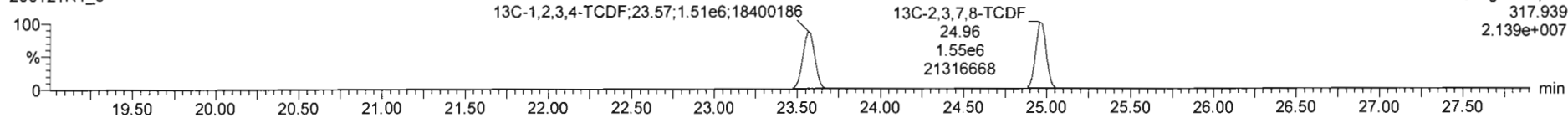


13C-2,3,7,8-TCDF

200121R1_8

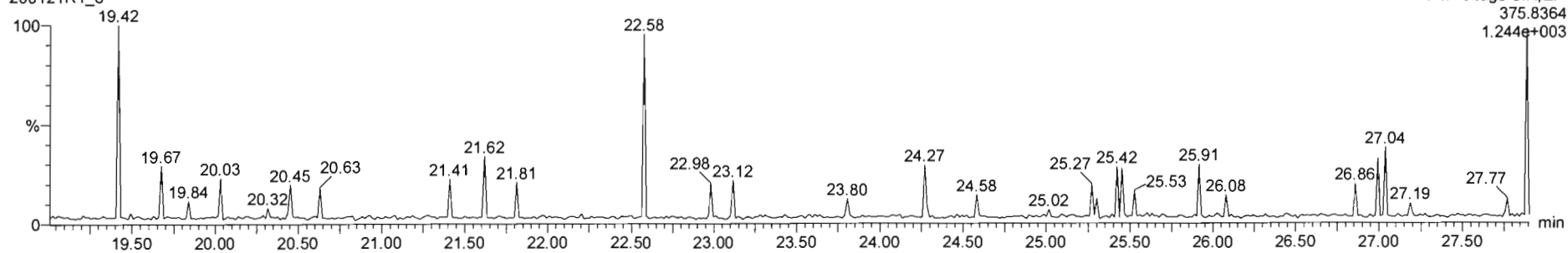


200121R1_8



DPE1

200121R1_8



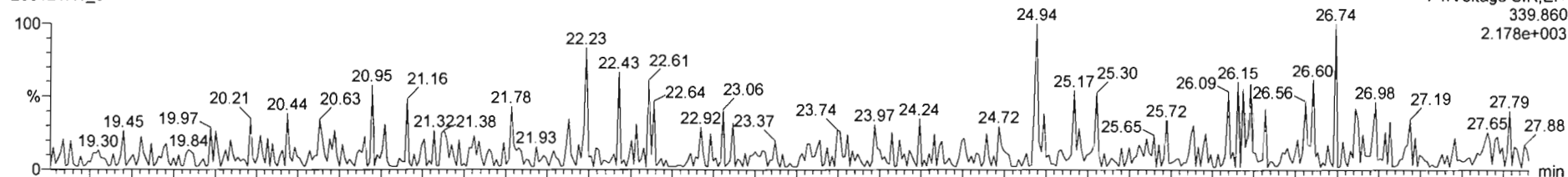
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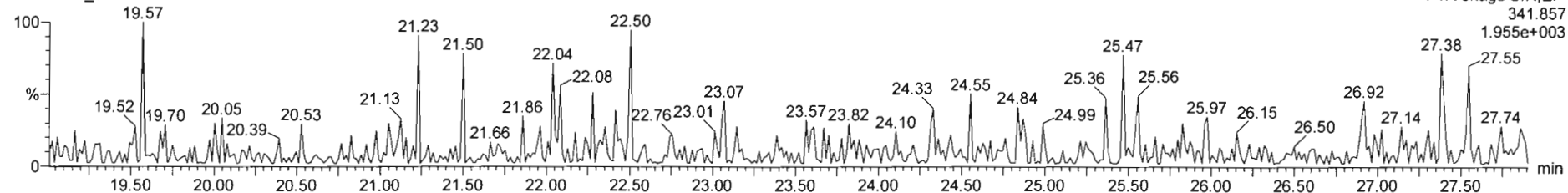
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1st Func. Penta-Furans

200121R1_8

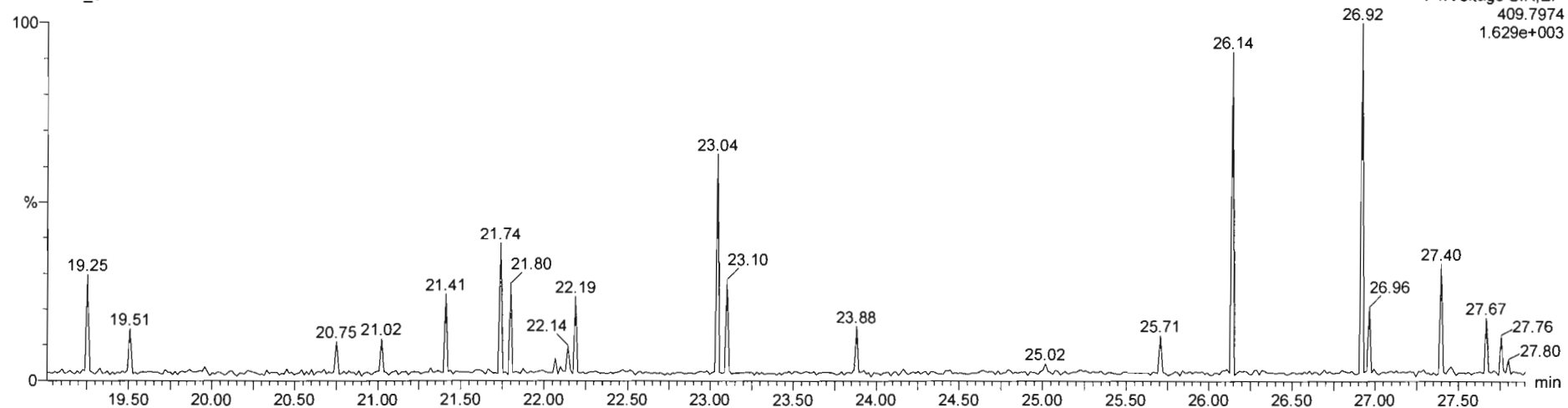


200121R1_8



DPE6

200121R1_8



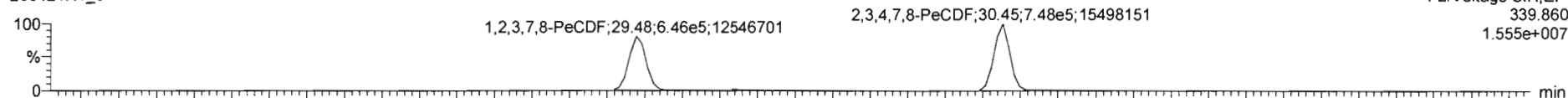
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Printed: Wednesday, January 22, 2020 09:59:05 Pacific Standard Time

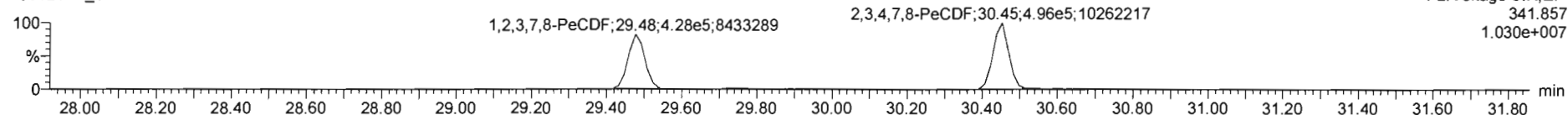
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1,2,3,7,8-PeCDF

200121R1_8

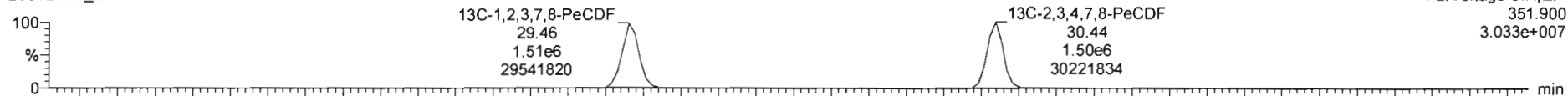


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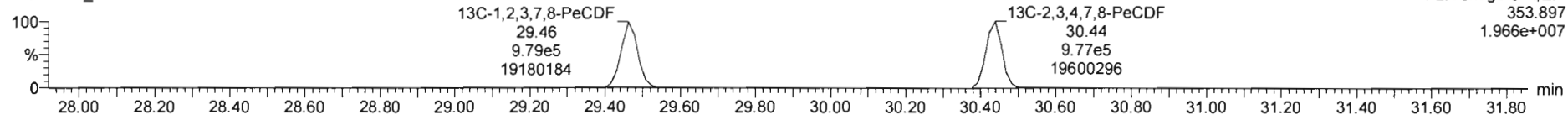


13C-1,2,3,7,8-PeCDF

200121R1_8

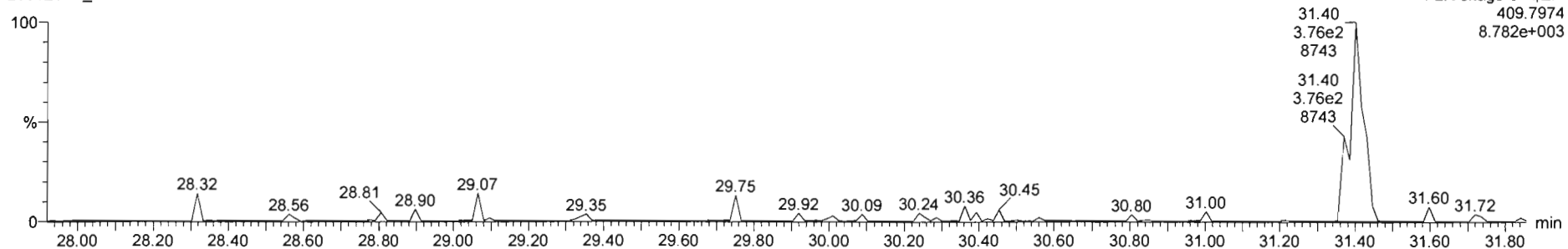


200121R1_8



DPE2

200121R1_8

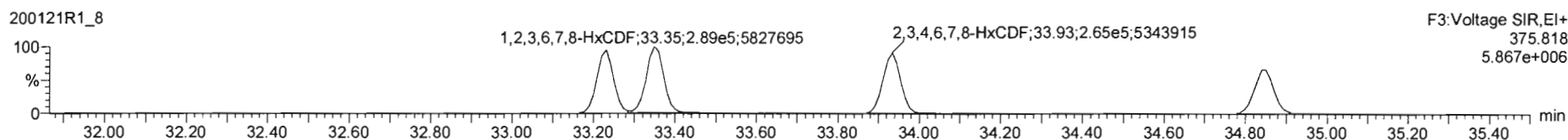
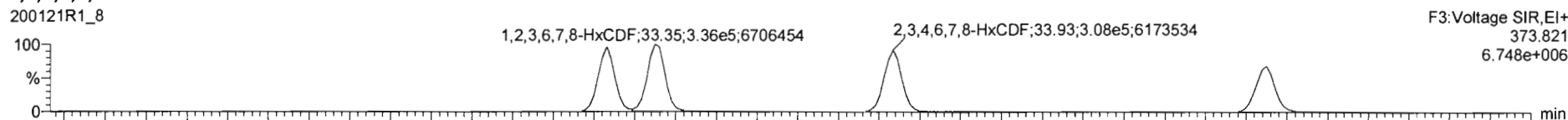


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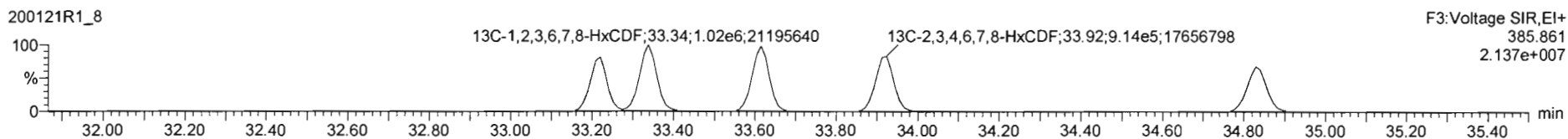
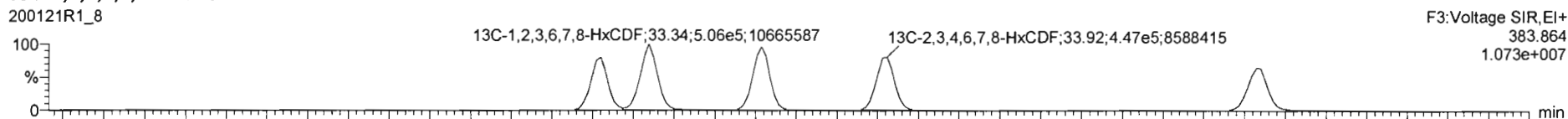
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Printed: Wednesday, January 22, 2020 09:59:05 Pacific Standard Time

Name: 200121R1_8, Date: 21-Jan-2020, Time: 19:40:22, ID: SS200121R1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

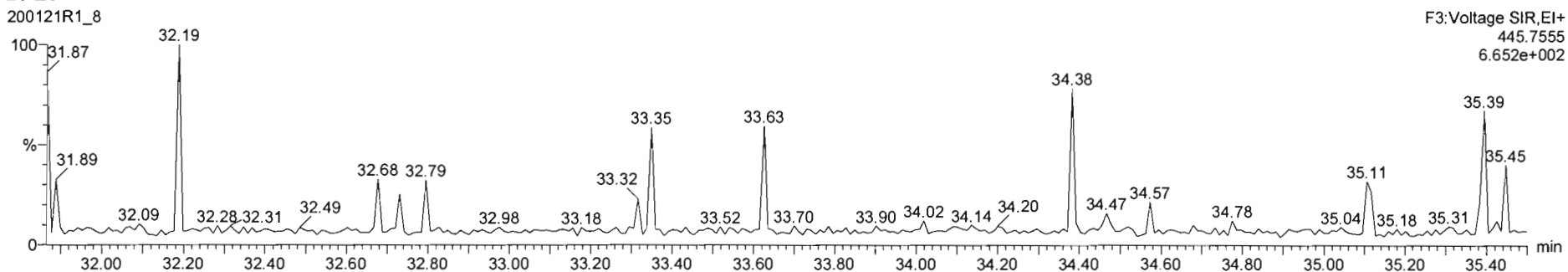
1,2,3,4,7,8-HxCDF



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



DPE3



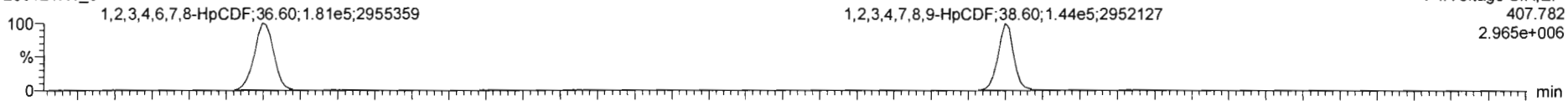
Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:58:49 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:59:05 Pacific Standard Time

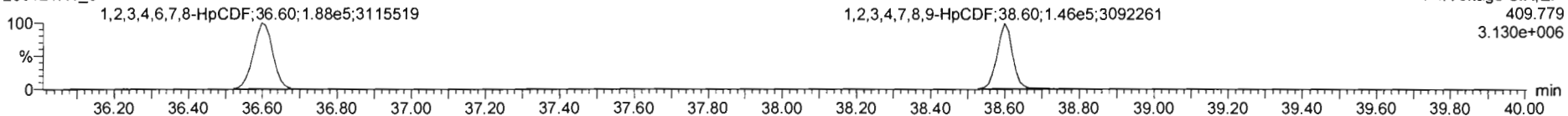
Name: 200121R1_8, Date: 21-Jan-2020, Time: 19:40:22, ID: SS200121R1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

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

200121R1_8

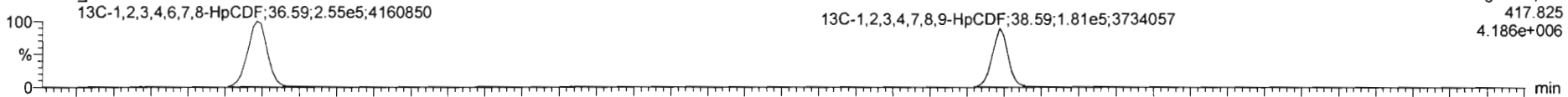


200121R1_8

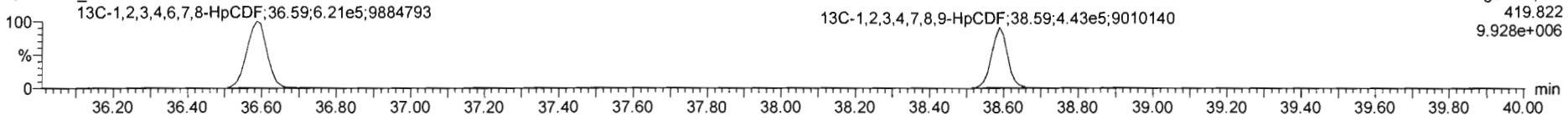


13C-1,2,3,4,6,7,8-HpCDF

200121R1_8

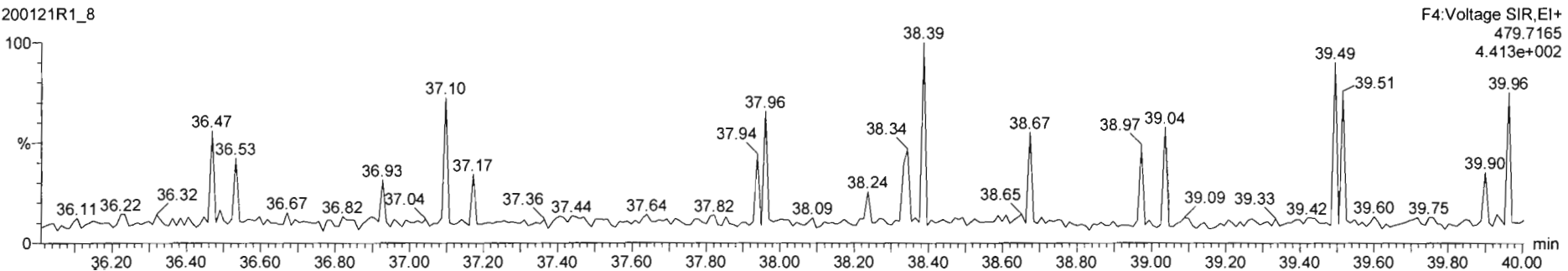


200121R1_8



DPE4

200121R1_8

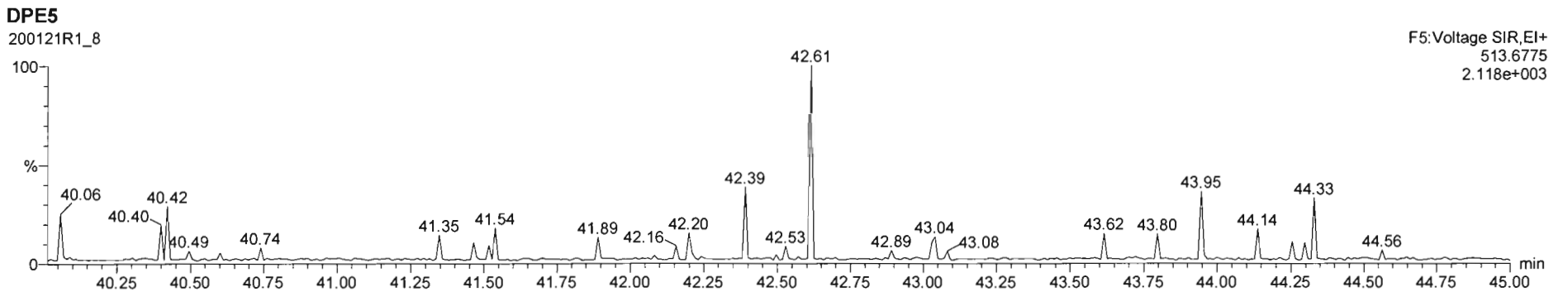
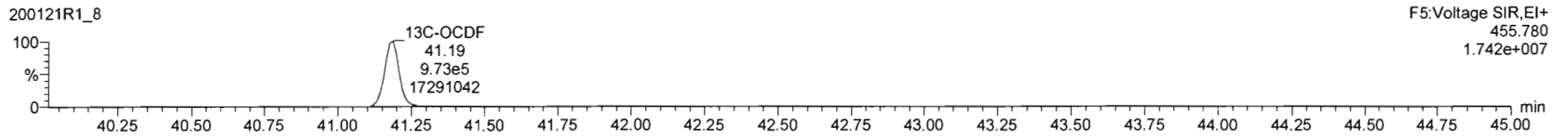
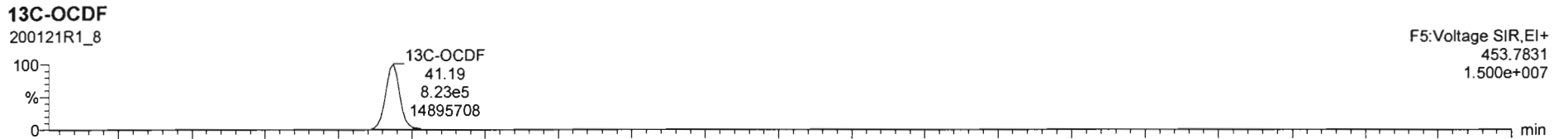
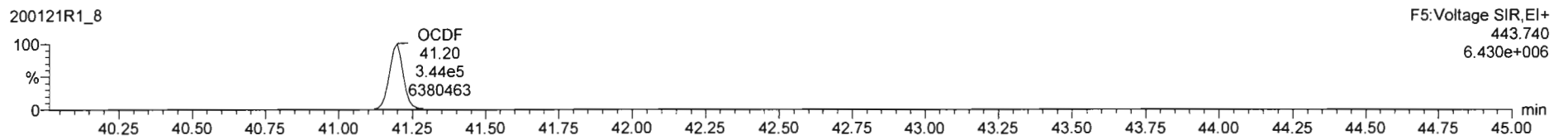
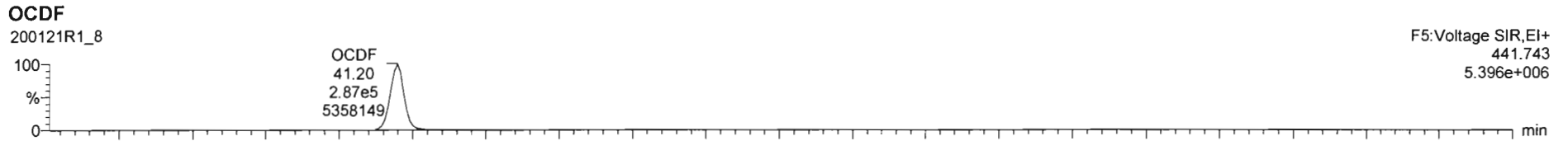


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Last Altered: Wednesday, January 22, 2020 09:58:49 Pacific Standard Time

Printed: Wednesday, January 22, 2020 09:59:05 Pacific Standard Time

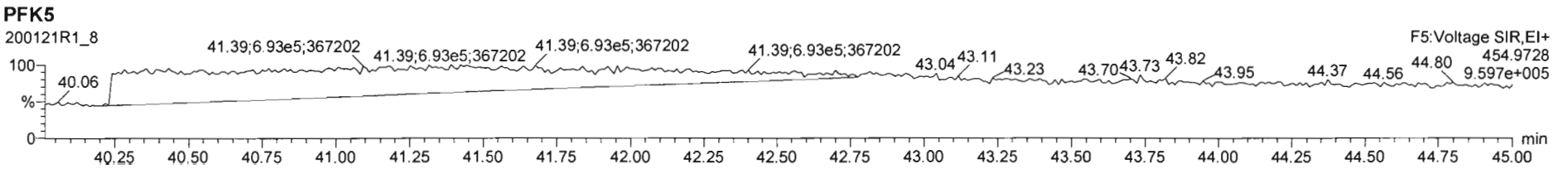
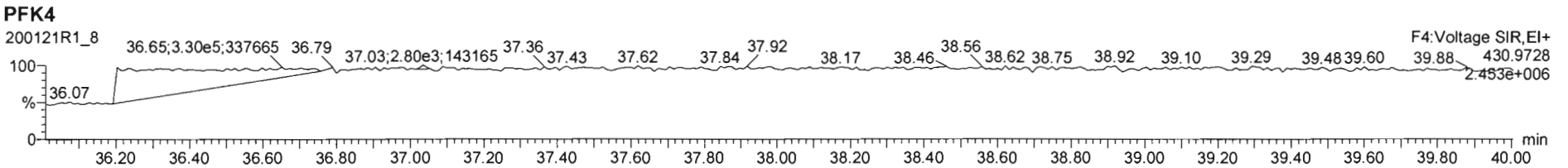
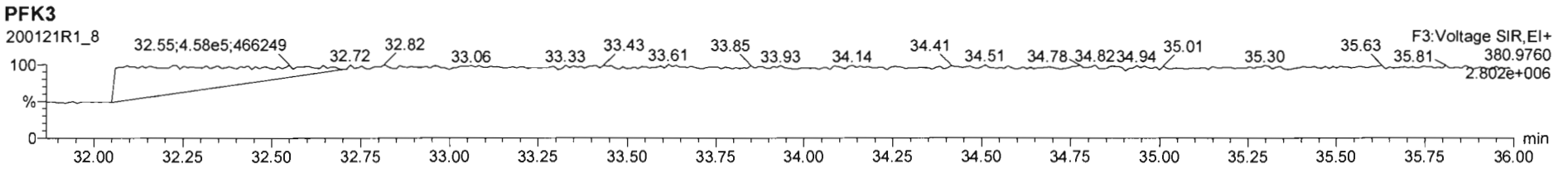
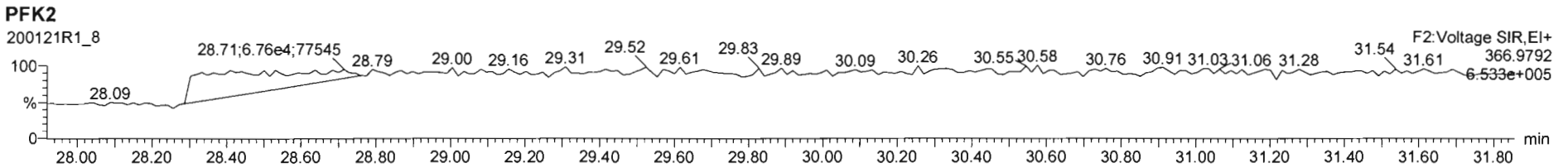
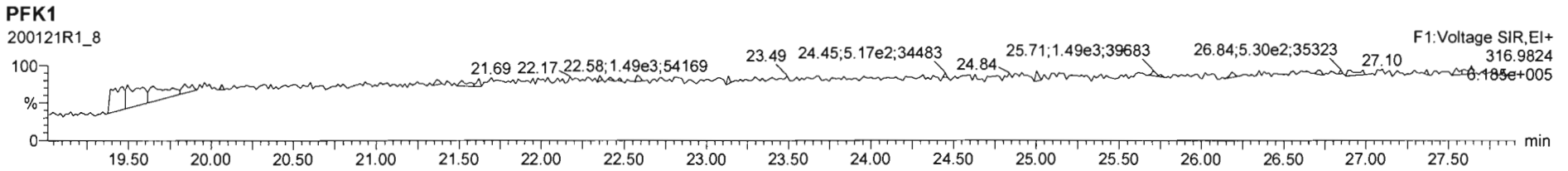
Name: 200121R1_8, Date: 21-Jan-2020, Time: 19:40:22, ID: SS200121R1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207



Dataset: Untitled

Last Altered: Wednesday, January 22, 2020 09:58:49 Pacific Standard Time
Printed: Wednesday, January 22, 2020 09:59:05 Pacific Standard Time

Name: 200121R1_8, Date: 21-Jan-2020, Time: 19:40:22, ID: SS200121R1_1 1613 SSS 19C2207, Description: 1613 SSS 19C2207



Dataset: U:\VG11.PRO\Results\200131K1\200131K1-CRV.qld

Last Altered: Friday, January 31, 2020 13:49:37 Pacific Standard Time
 Printed: Saturday, February 01, 2020 08:27:10 Pacific Standard Time

HC 2-1-2020 C1 02/03/2020

Method: U:\VG11.PRO\MethDB\tcdf.mdb 31 Jan 2020 07:42:36
 Calibration: U:\VG11.PRO\CurveDB\db225_1613TCDFvg11-1-31-20.cdb 31 Jan 2020 13:49:37

Compound name: 2,3,7,8-TCDF
 Response Factor: 1.03616
 RRF SD: 0.0951655, Relative SD: 9.1844
 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
200131K1_2	0.250	0.80	NO	16.38	1.001	9.45e3	3.12e6	0.292	16.8	1.21	MM
200131K1_3	0.500	0.76	NO	16.38	1.000	1.03e4	2.13e6	0.470	-6.1	0.973	MM
200131K1_4	2.00	0.77	NO	16.39	1.001	5.32e4	2.79e6	1.84	-7.9	0.954	bb
200131K1_5	10.0	0.78	NO	16.39	1.001	1.80e5	1.84e6	9.43	-5.7	0.977	bb
200131K1_6	40.0	0.79	NO	16.39	1.001	1.05e6	2.53e6	40.1	0.2	1.04	bb
200131K1_7	300	0.79	NO	16.40	1.001	7.90e6	2.47e6	308	2.7	1.06	bb

Compound name: 13C-2,3,7,8-TCDF
 Response Factor: 1.02222
 RRF SD: 0.0218203, Relative SD: 2.1346
 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
200131K1_2	100	0.79	NO	16.37	1.131	3.12e6	3.08e6	99.2	-0.8	1.01	bb
200131K1_3	100	0.79	NO	16.38	1.132	2.13e6	2.14e6	97.4	-2.6	0.996	bb
200131K1_4	100	0.77	NO	16.37	1.131	2.79e6	2.75e6	99.1	-0.9	1.01	bb
200131K1_5	100	0.79	NO	16.38	1.131	1.84e6	1.78e6	101	1.2	1.03	bd
200131K1_6	100	0.78	NO	16.38	1.132	2.53e6	2.48e6	99.5	-0.5	1.02	bb
200131K1_7	100	0.77	NO	16.39	1.131	2.47e6	2.34e6	104	3.6	1.06	bb

Dataset: U:\VG11.PRO\Results\200131K1\200131K1-CRV.qld

Last Altered: Friday, January 31, 2020 13:49:37 Pacific Standard Time
 Printed: Saturday, February 01, 2020 08:27:10 Pacific Standard 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	200131K1_2	100	0.78	NO	14.47	1.000	3.08e6	3.08e6	100	0.0	1.00	bb
2	200131K1_3	100	0.80	NO	14.47	1.000	2.14e6	2.14e6	100	0.0	1.00	bb
3	200131K1_4	100	0.79	NO	14.47	1.000	2.75e6	2.75e6	100	0.0	1.00	bb
4	200131K1_5	100	0.79	NO	14.48	1.000	1.78e6	1.78e6	100	0.0	1.00	bb
5	200131K1_6	100	0.79	NO	14.47	1.000	2.48e6	2.48e6	100	0.0	1.00	bb
6	200131K1_7	100	0.79	NO	14.49	1.000	2.34e6	2.34e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDD

No Calibration

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	200131K1_2	0.000	0.79	NO	15.12	0.000	2.23e6				0.000	db
2	200131K1_3	0.000	0.77	NO	15.13	0.000	1.53e6				0.000	db
3	200131K1_4	0.000	0.80	NO	15.12	0.000	1.90e6				0.000	db
4	200131K1_5	0.000	0.79	NO	15.13	0.000	1.30e6				0.000	dd
5	200131K1_6	0.000	0.78	NO	15.13	0.000	1.74e6				0.000	db
6	200131K1_7	0.000	0.76	NO	15.06	0.000	1.62e6				0.000	bd

Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:56:50 Pacific Standard Time

Method: U:\VG11.PRO\MethDB\tcdf.mdb 31 Jan 2020 07:42:36
Calibration: U:\VG11.PRO\CurveDB\db225_1613TCDFvg11-1-31-20.cdb 31 Jan 2020 13:49:37

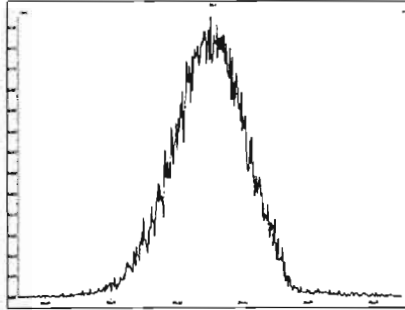
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200131K1_1	CP200131K1-1 225 CPSM	31-Jan-20	10:07:42
2	200131K1_2	ST200131K1-1 1613 CS0 19C2201	31-Jan-20	10:37:56
3	200131K1_3	ST200131K1-2 1613 CS1 19C2202	31-Jan-20	11:09:19
4	200131K1_4	ST200131K1-3 1613 CS2 19C2203	31-Jan-20	11:40:42
5	200131K1_5	ST200131K1-4 1613 CS3 19C2204	31-Jan-20	12:13:33
6	200131K1_6	ST200131K1-5 1613 CS4 19C2205	31-Jan-20	12:43:47
7	200131K1_7	ST200131K1-6 1613 CS5 19C2206	31-Jan-20	13:16:14
8	200131K1_8	SOLVENT BLANK	31-Jan-20	13:46:37
9	200131K1_9	SS200131K1-1 1613 SSS 19C2207	31-Jan-20	14:19:06
10	200131K1_10	SOLVENT BLANK	31-Jan-20	14:49:31
11	200131K1_11	1903647-03RE1 PDI-067SC-B-02-04-191010 ...	31-Jan-20	15:20:42
12	200131K1_12	1904160-04RE1 PDI-032SC-A-01-02-191010 ...	31-Jan-20	15:52:01
13	200131K1_13	B0A0001-DUP1 Duplicate	31-Jan-20	16:23:24
14	200131K1_14	1904159-01RE1 PDI-013SC-A-02-03-190925 ...	31-Jan-20	16:54:44
15	200131K1_15	1904159-03RE1 PDI-015SC-A-07-08-191012 ...	31-Jan-20	17:26:05
16	200131K1_16	1904159-06RE1 PDI-016SC-A-01-02-191009 ...	31-Jan-20	17:57:25
17	200131K1_17	1904159-07RE1 PDI-018SC-A-06-07-190926 ...	31-Jan-20	18:30:13
18	200131K1_18	1904159-16RE1 PDI-024SC-A-03-04-190927 ...	31-Jan-20	19:00:33
19	200131K1_19	1904159-17RE1 PDI-025SC-A-02-03-190927 ...	31-Jan-20	19:32:58
20	200131K1_20	1904159-19RE1 PDI-026SC-A-04-05-191014 ...	31-Jan-20	20:03:17
21	200131K1_21	1904207-05RE1 PDI-077SC-A-00-01-191014 ...	31-Jan-20	20:34:41
22	200131K1_22	1904207-06RE1 PDI-077SC-A-01-02-191014 ...	31-Jan-20	21:06:06
23	200131K1_23	1904159-11RE1 PDI-020SC-A-02-03-191008 ...	31-Jan-20	21:37:30
24	200131K1_24	1904159-15RE1 PDI-024SC-A-02-03-190927 ...	31-Jan-20	22:10:18
25	200131K1_25	1904159-05RE1 PDI-016SC-A-00-01-191009 ...	31-Jan-20	22:41:56
26	200131K1_26	1904207-03RE1 PDI-076SC-A-04-05-191013 ...	31-Jan-20	23:13:28
27	200131K1_27	1903647-02RE1 PDI-067SC-B-00-02-191010 ...	31-Jan-20	23:44:04

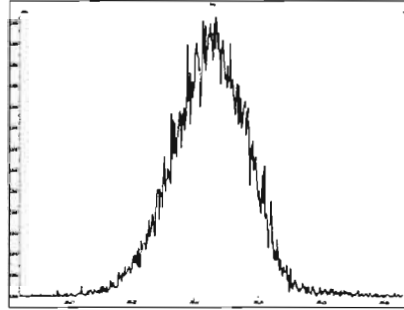
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, January 31, 2020 10:05:02 Pacific Standard Time

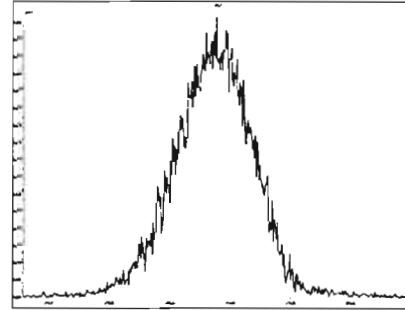
M 292.9824 R 11361



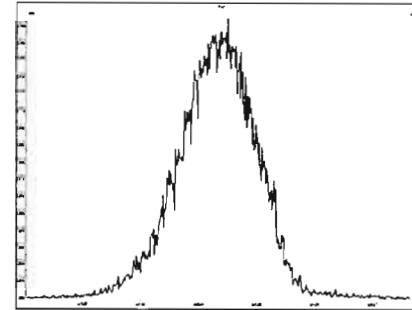
M 304.9824 R 11263



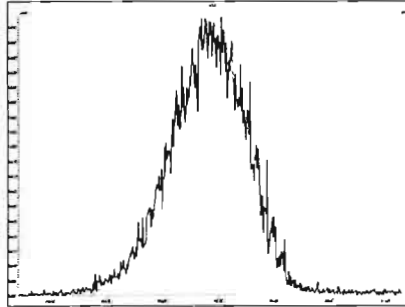
M 318.9792 R 11732



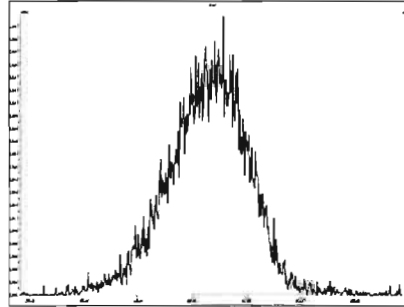
M 330.9792 R 10868



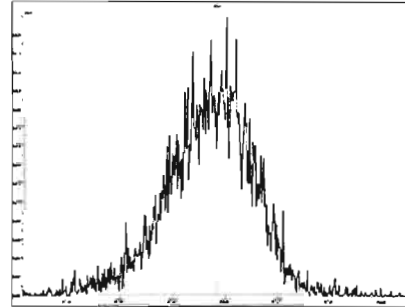
M 342.9792 R 10967



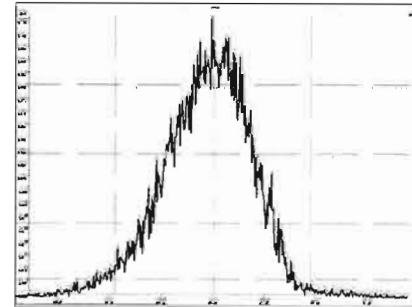
M 354.9792 R 12020



M 366.9792 R 11164



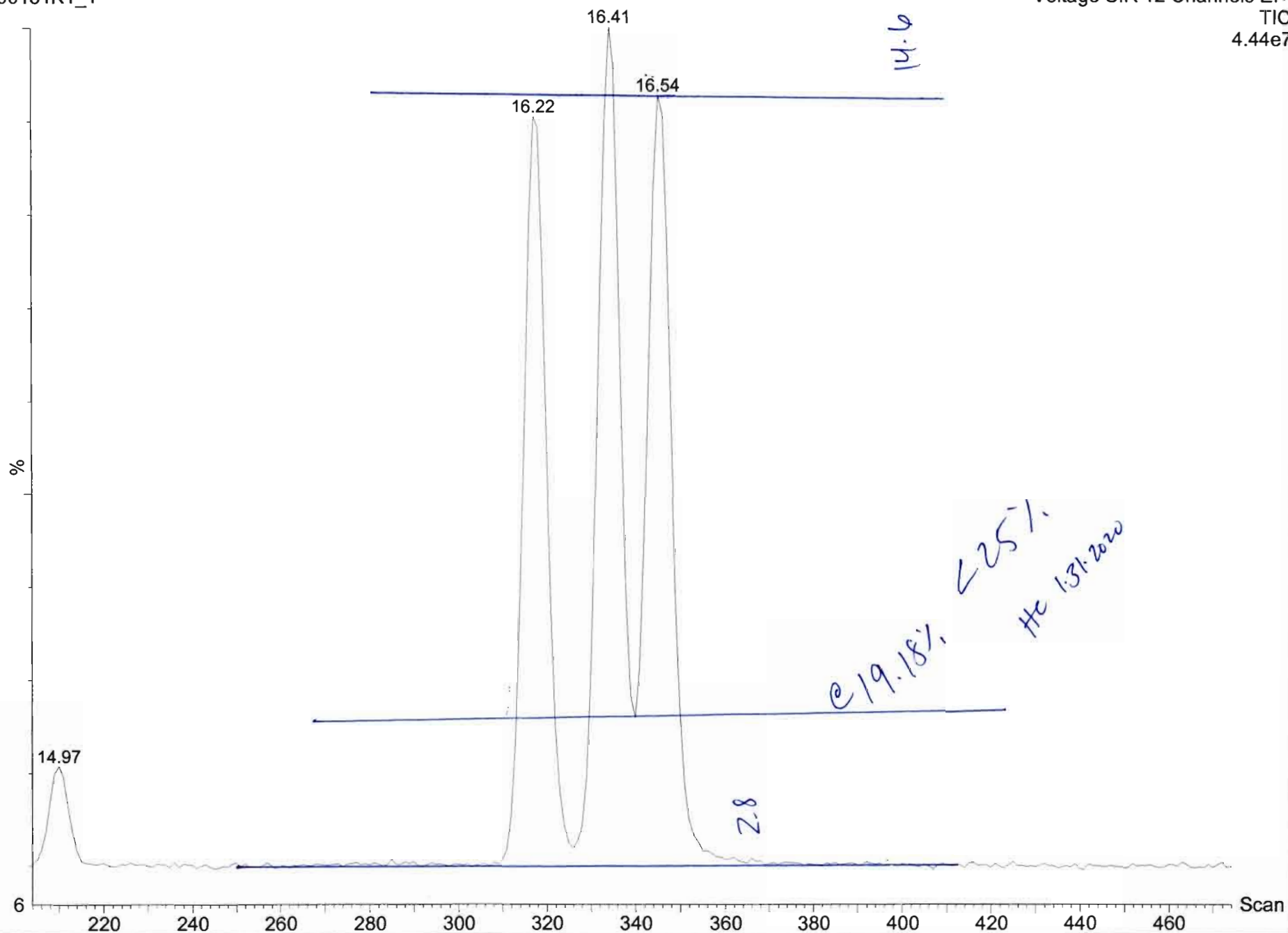
M 380.9760 R 10123



225 CPSM
200131K1_1

M658

31-Jan-2020 10:07:42
Voltage SIR 12 Channels EI+
TIC
4.44e7



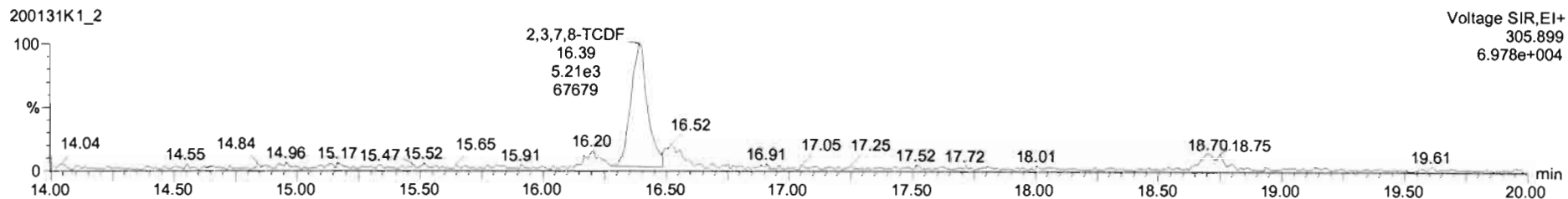
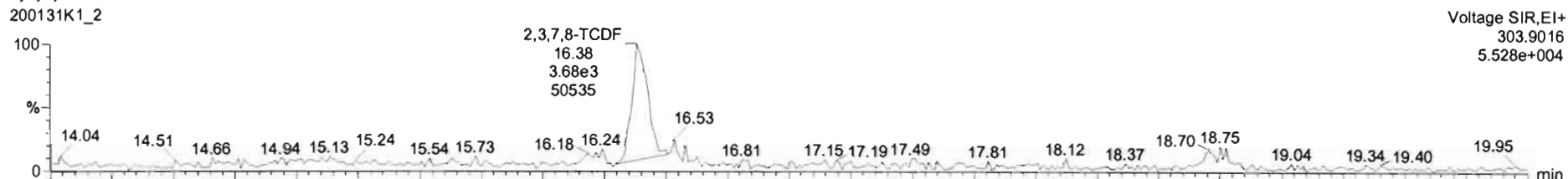
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Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

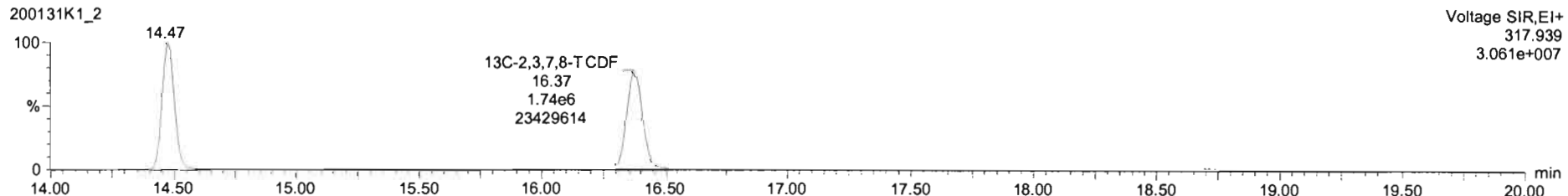
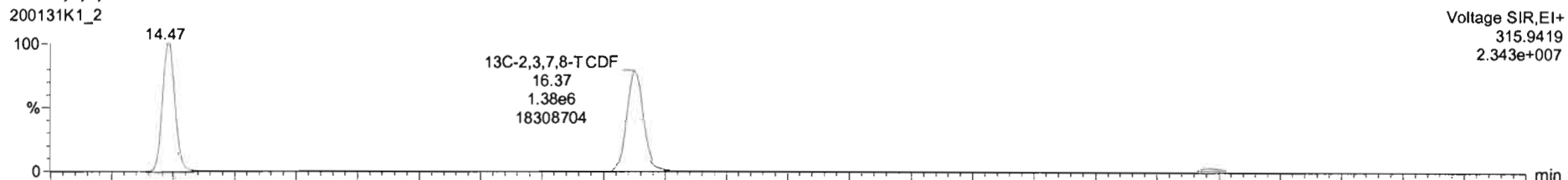
Method: U:\VG11.PRO\MethDB\tcdf.mdb 31 Jan 2020 07:42:36
Calibration: U:\VG11.PRO\CurveDB\db225_1613TCDFvg11-1-31-20.cdb 31 Jan 2020 13:49:37

Name: 200131K1_2, Date: 31-Jan-2020, Time: 10:37:56, ID: ST200131K1-1 1613 CS0 19C2201, Description: 1613 CS0 19C2201

2,3,7,8-TCDF



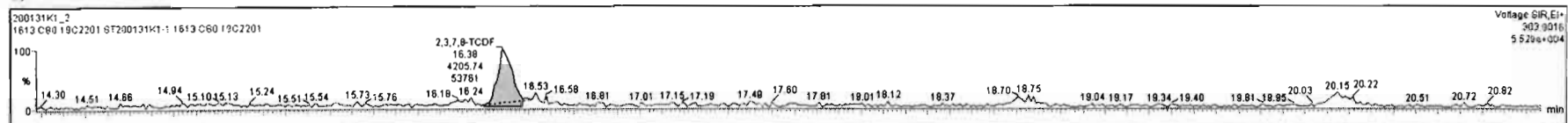
13C-2,3,7,8-TCDF



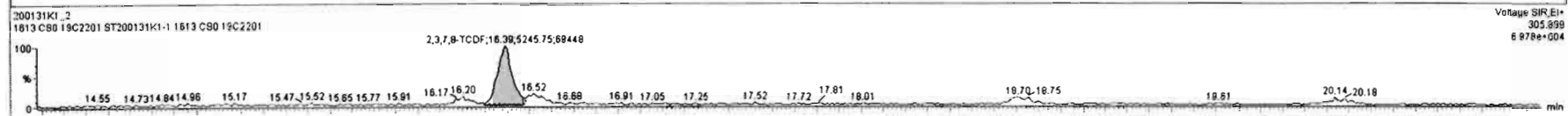
2,3,7,8-TCDF

#	Name	Std Conc	RT	Resp	Ratio	Ratio Flag	IS Resp	Response	Conc	%Dev	RRF Mean	RRF %RSD	RRF	Divisor1
1	200131K1_2	0.250	16.38	9.451e3	0.802	NO	3.123e6	0.303	0.3	16.8	1.036	9.184	1.211	1.0
2	200131K1_3	0.500	16.38	1.035e4	0.759	NO	2.126e6	0.487	0.5	-8.1	1.036	9.184	0.973	1.0
3	200131K1_4	2.000	16.39	5.325e4	0.770	NO	2.790e6	1.909	1.8	-7.9	1.036	9.184	0.954	1.0
4	200131K1_5	10.000	16.39	1.801e5	0.784	NO	1.844e6	9.770	9.4	-5.7	1.036	9.184	0.977	1.0
5	200131K1_6	40.000	16.39	1.049e6	0.792	NO	2.526e6	41.523	40.1	0.2	1.036	9.184	1.038	1.0
6	200131K1_7	300.000	16.40	7.895e6	0.793	NO	2.474e6	319.092	308.0	2.7	1.036	9.184	1.064	1.0

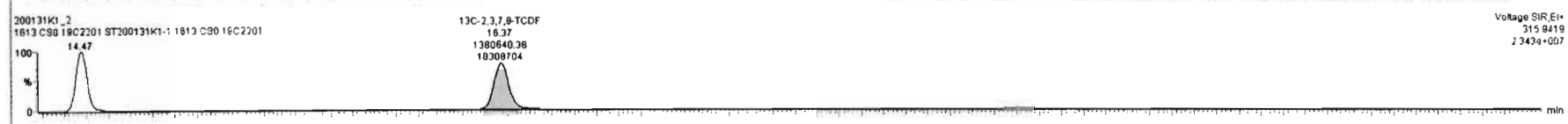
Name	RT	m1 Resp	m2 Resp	RA	rvj	EMPC	Conc
1							



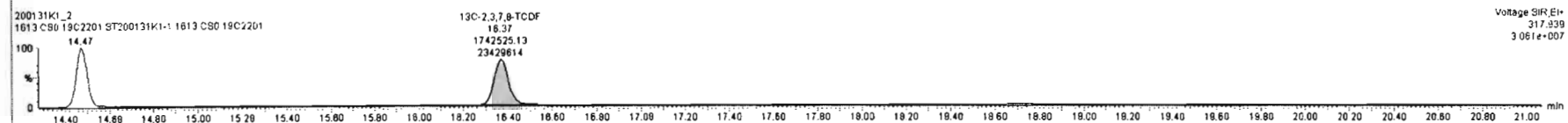
Voltage SIR_EI+
503.9016
5.529e+004



Voltage SIR_EI+
305.899
6.978e+004



Voltage SIR_EI+
315.9419
2.343e+007



Voltage SIR_EI+
317.939
3.061e+007

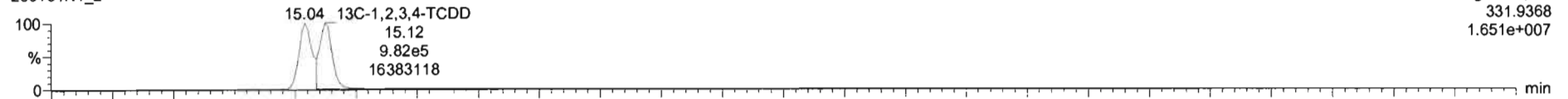
Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

Name: 200131K1_2, Date: 31-Jan-2020, Time: 10:37:56, ID: ST200131K1-1 1613 CS0 19C2201, Description: 1613 CS0 19C2201

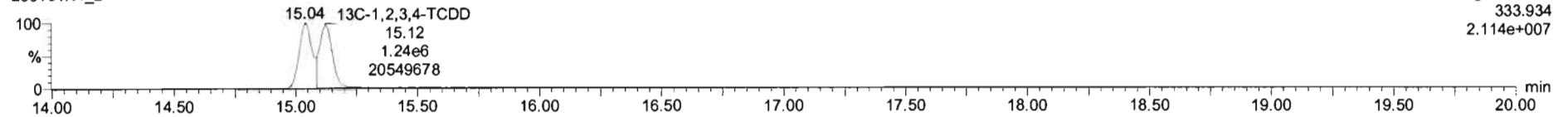
13C-1,2,3,4-TCDD

200131K1_2



Voltage SIR,EI+
331.9368
1.651e+007

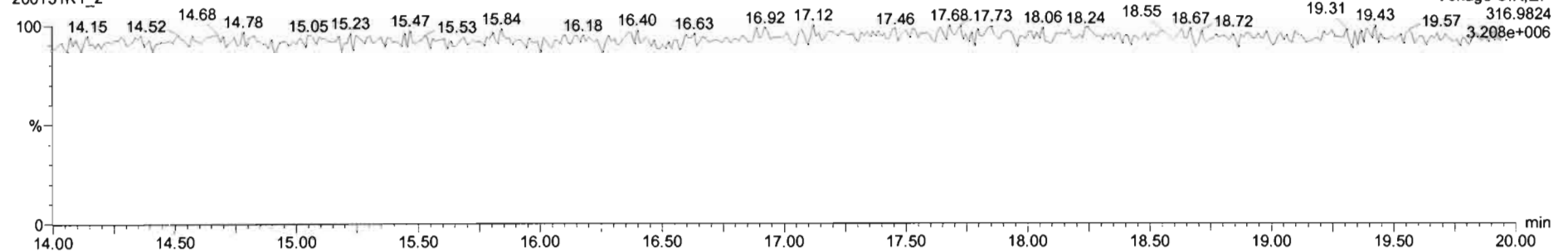
200131K1_2



Voltage SIR,EI+
333.934
2.114e+007

PFK1

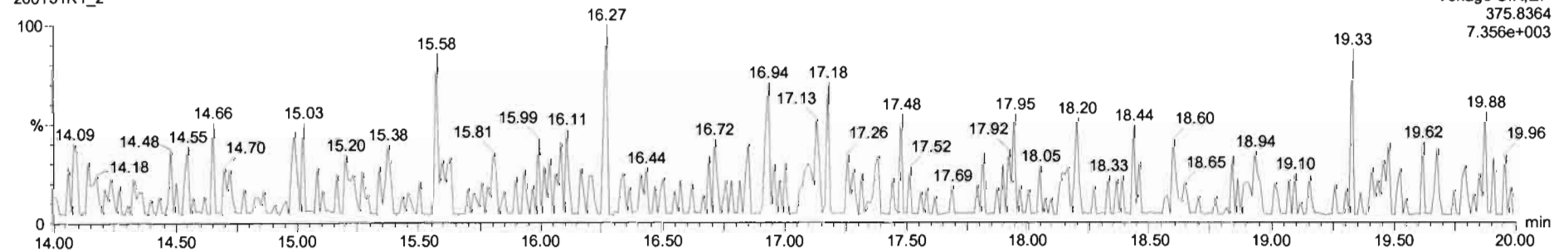
200131K1_2



Voltage SIR,EI+
316.9824
3.208e+006

DPE1

200131K1_2



Voltage SIR,EI+
375.8364
7.356e+003

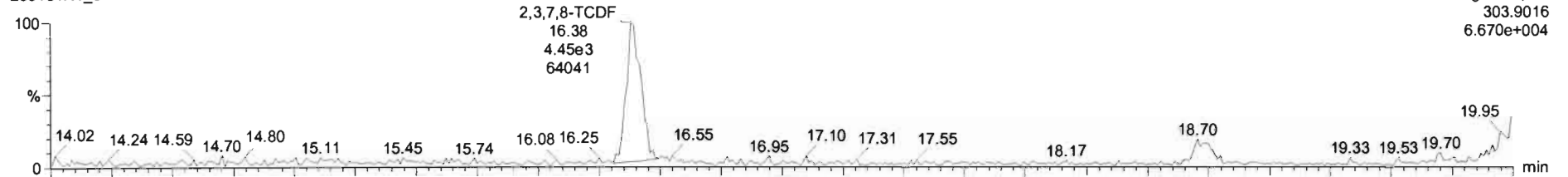
Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

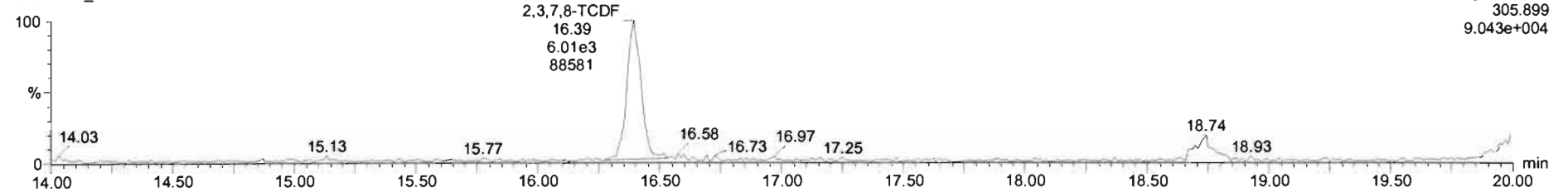
Name: 200131K1_3, Date: 31-Jan-2020, Time: 11:09:19, ID: ST200131K1-2 1613 CS1 19C2202, Description: 1613 CS1 19C2202

2,3,7,8-TCDF

200131K1_3

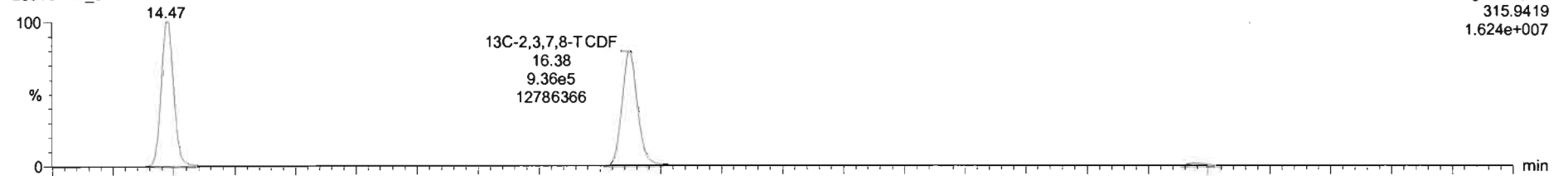


200131K1_3

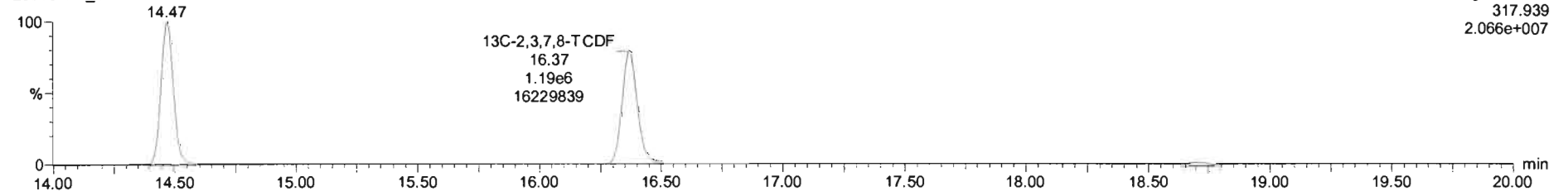


13C-2,3,7,8-TCDF

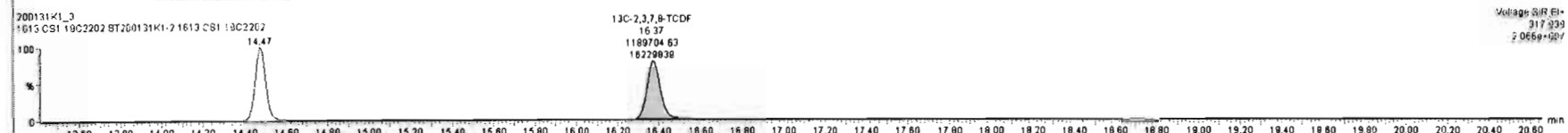
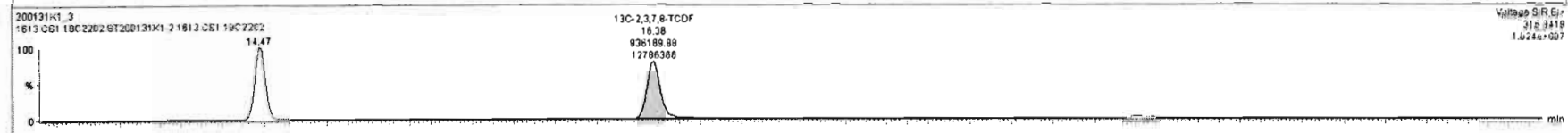
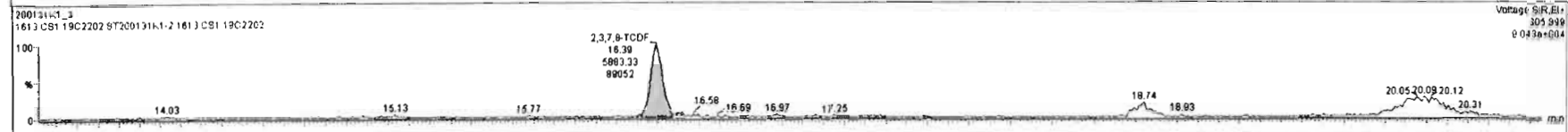
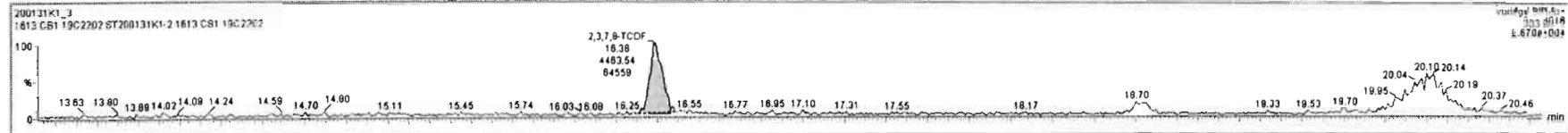
200131K1_3



200131K1_3



#	Name	Resp	RA	n/y	RRF	wtVcl	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.03e4	0.79	NO	1.04	1.000	16.38	0.470	83.9	0.0008
2	13C-2,3,7,8-TCDF	2.13e6	0.79	NO	1.02	1.000	16.38	97.4	97.4	0.125
3	13C-1,2,3,4-TCDF	2.14e6	0.80	NO	1.00	1.000	14.47	100	100	0.128
4	13C-1,2,3,4-TCDD	1.53e6	0.77	NO		1.000	15.13			
5	SPFK1					1.000				
6	DPE1					1.000				



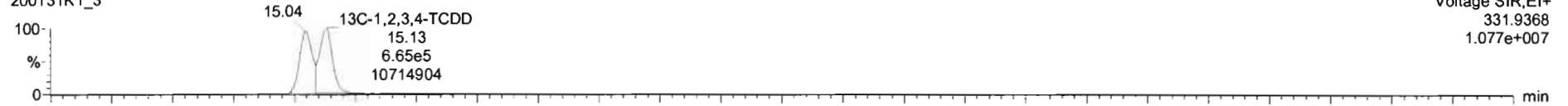
Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

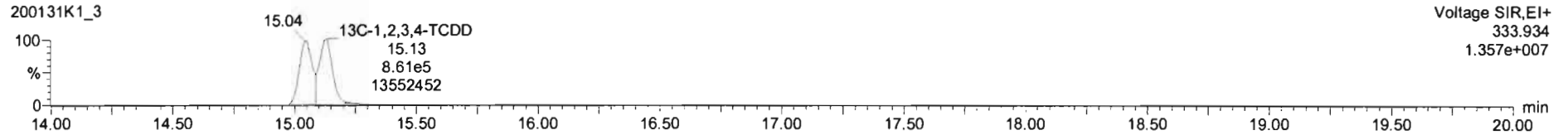
Name: 200131K1_3, Date: 31-Jan-2020, Time: 11:09:19, ID: ST200131K1-2 1613 CS1 19C2202, Description: 1613 CS1 19C2202

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

200131K1_3

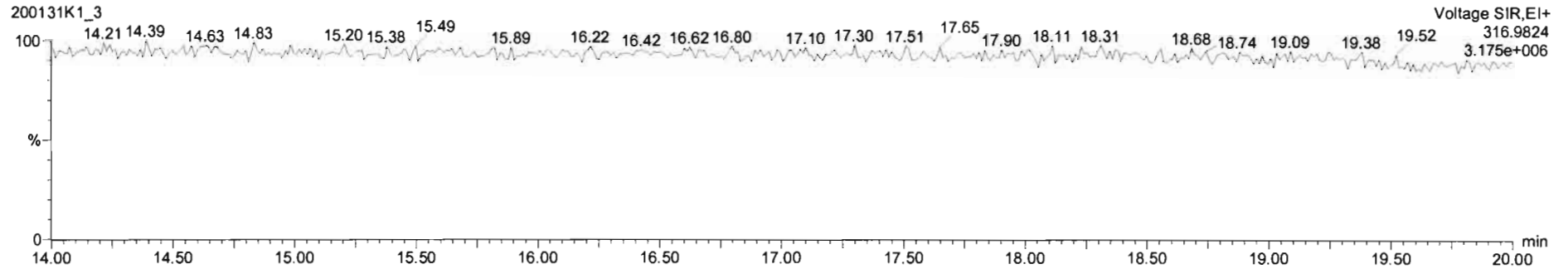


200131K1_3



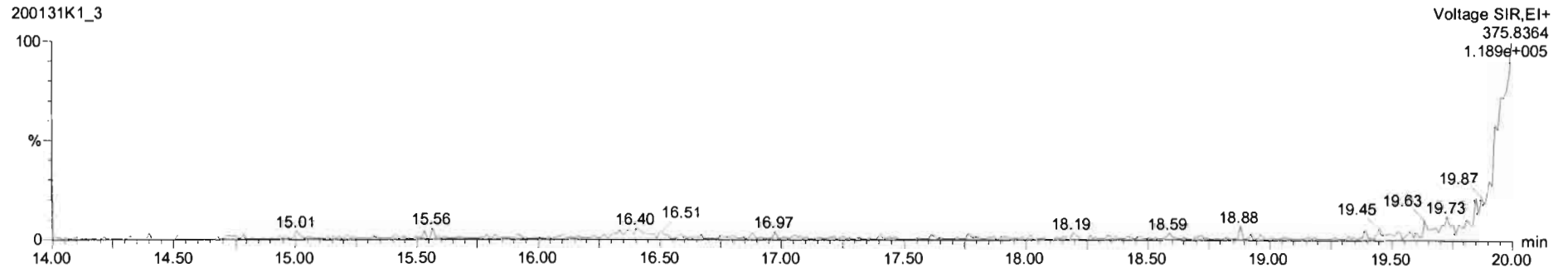
PFK1

200131K1_3



DPE1

200131K1_3



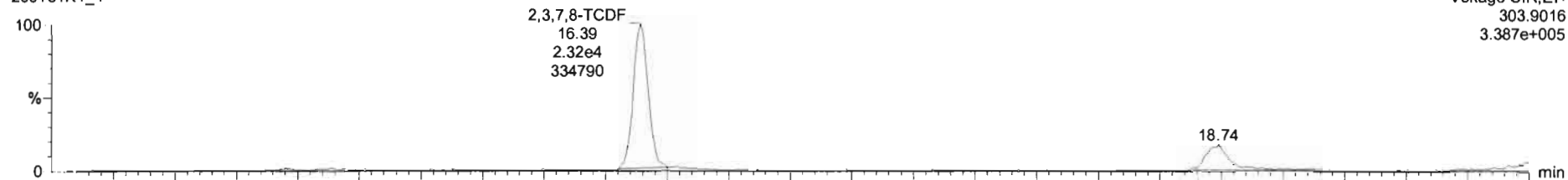
Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

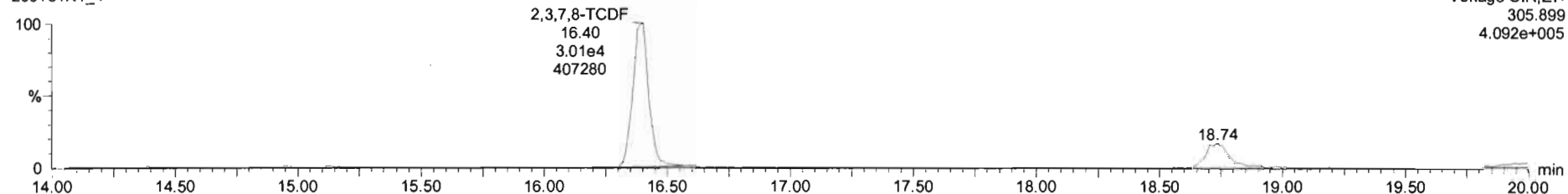
Name: 200131K1_4, Date: 31-Jan-2020, Time: 11:40:42, ID: ST200131K1-3 1613 CS2 19C2203, Description: 1613 CS2 19C2203

2,3,7,8-TCDF

200131K1_4

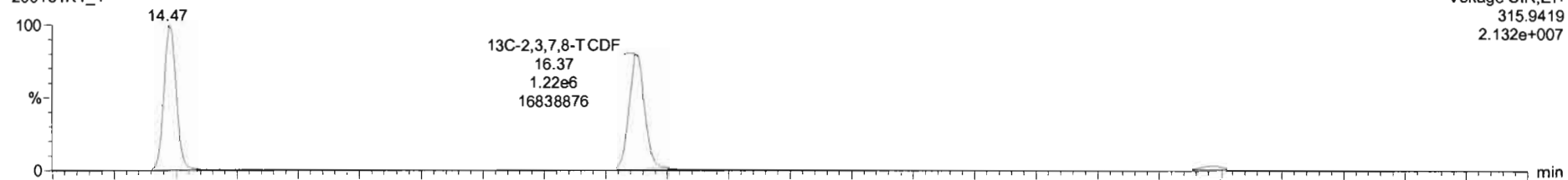


200131K1_4

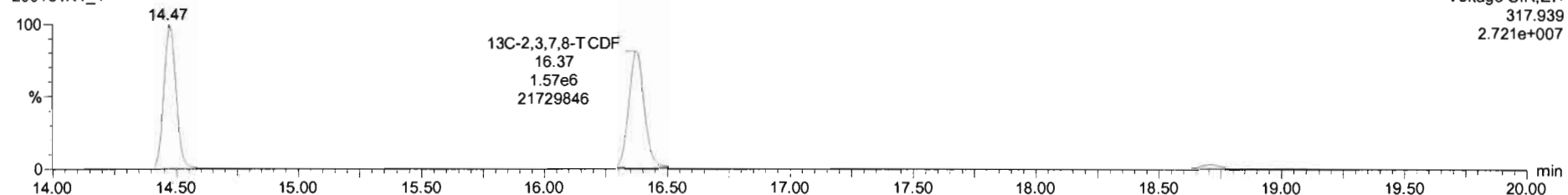


13C-2,3,7,8-TCDF

200131K1_4



200131K1_4



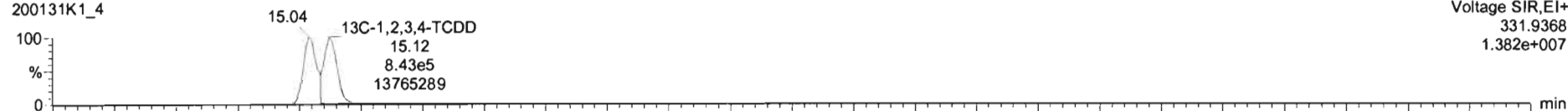
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Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

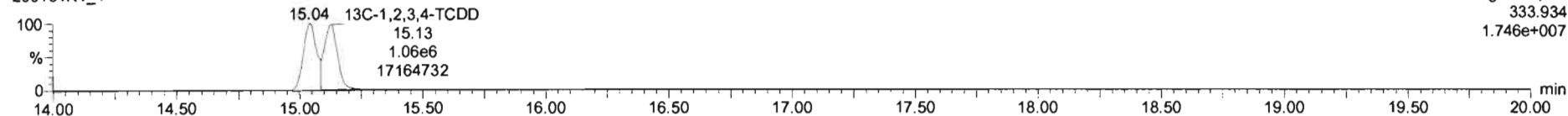
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13C-1,2,3,4-TCDD

200131K1_4

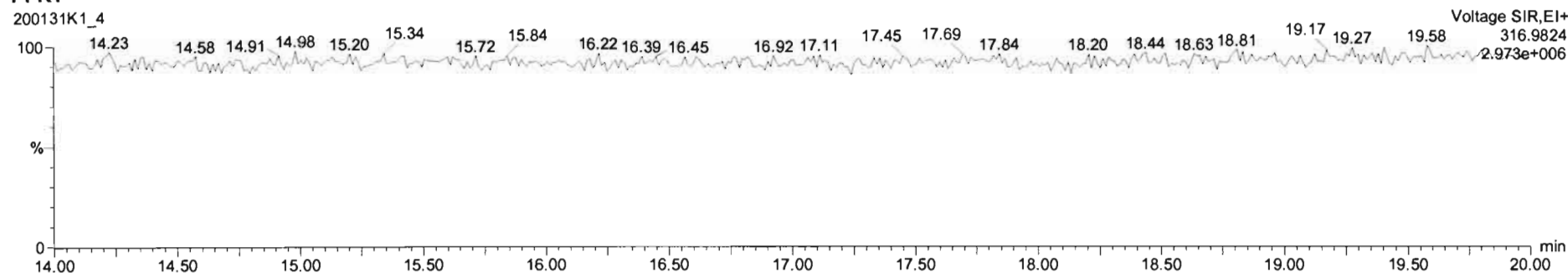


200131K1_4



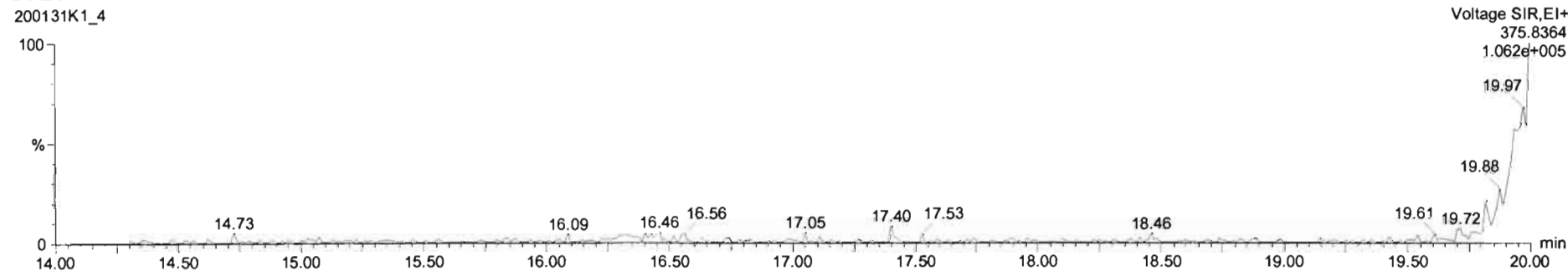
PFK1

200131K1_4



DPE1

200131K1_4



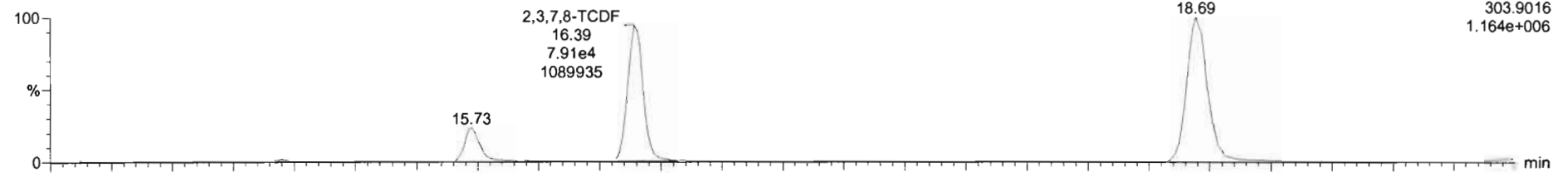
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Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

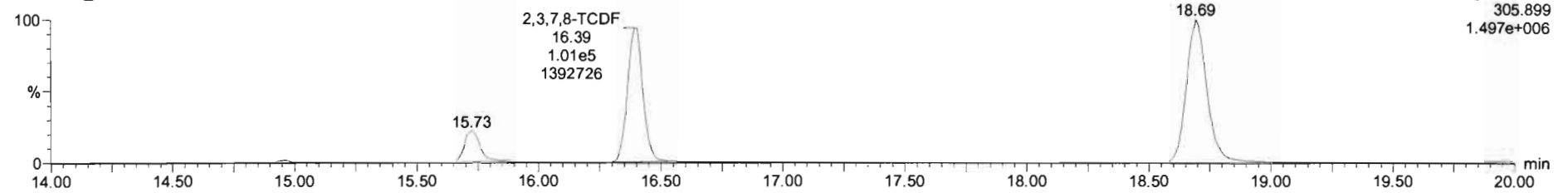
Name: 200131K1_5, Date: 31-Jan-2020, Time: 12:13:33, ID: ST200131K1-4 1613 CS3 19C2204, Description: 1613 CS3 19C2204

2,3,7,8-TCDF

200131K1_5

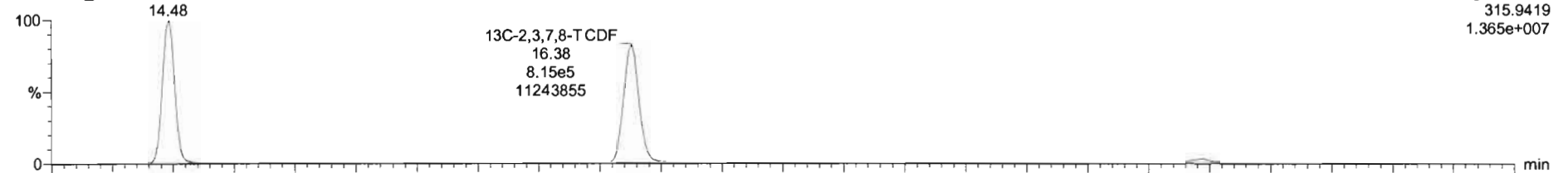


200131K1_5

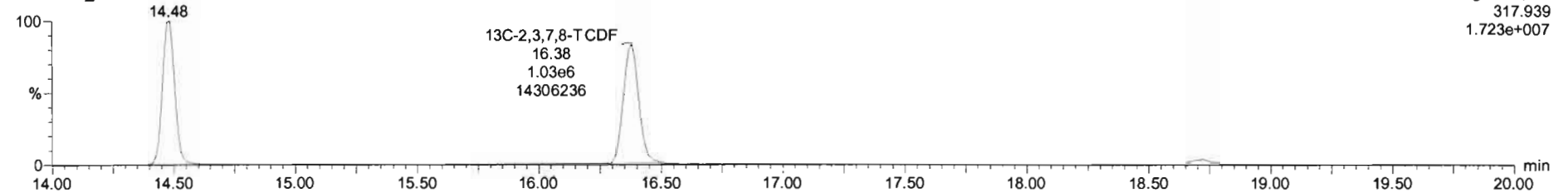


13C-2,3,7,8-TCDF

200131K1_5



200131K1_5



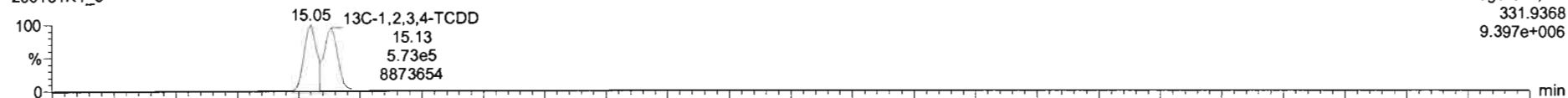
Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

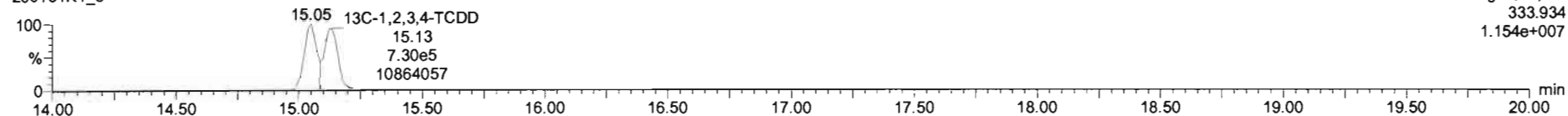
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13C-1,2,3,4-TCDD

200131K1_5

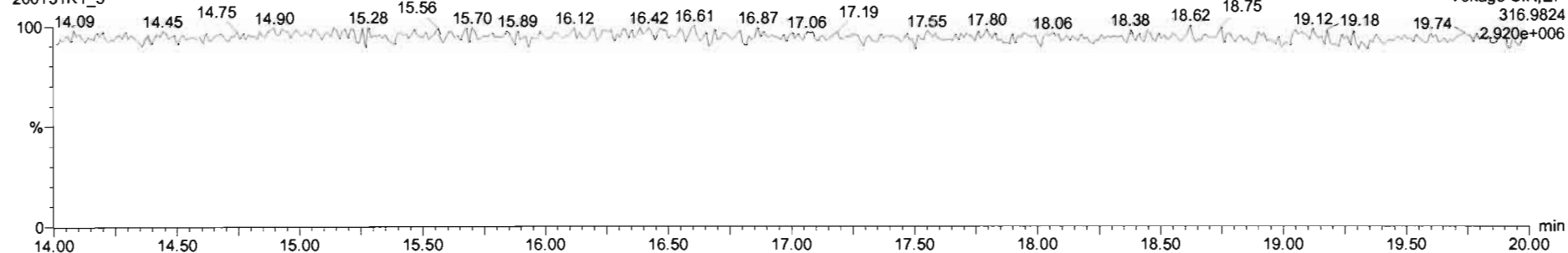


200131K1_5



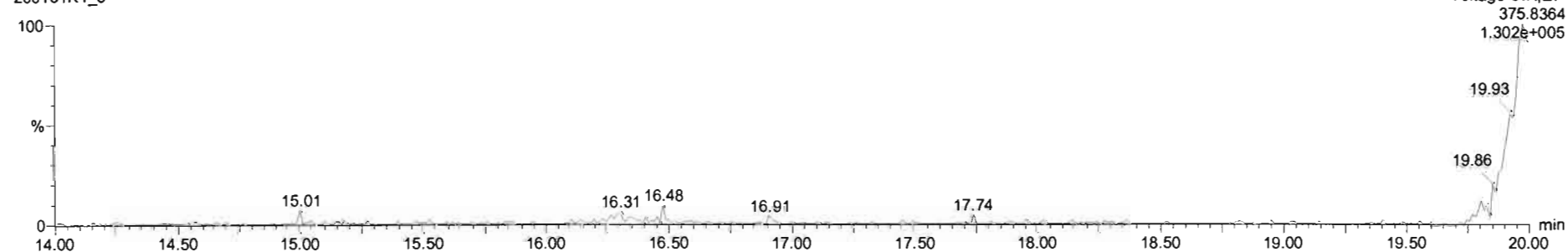
PFK1

200131K1_5



DPE1

200131K1_5



Dataset: Untitled

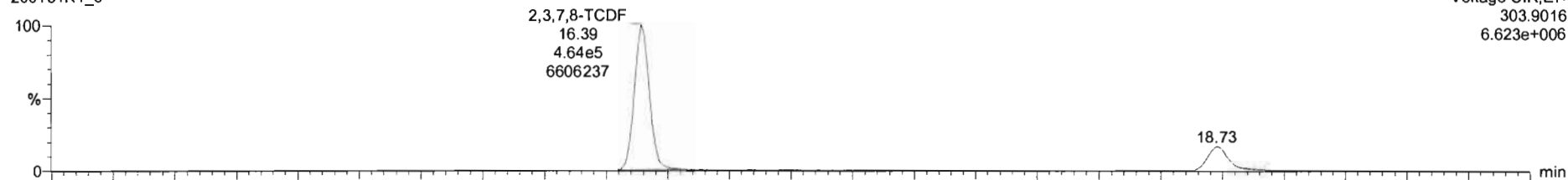
Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time

Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

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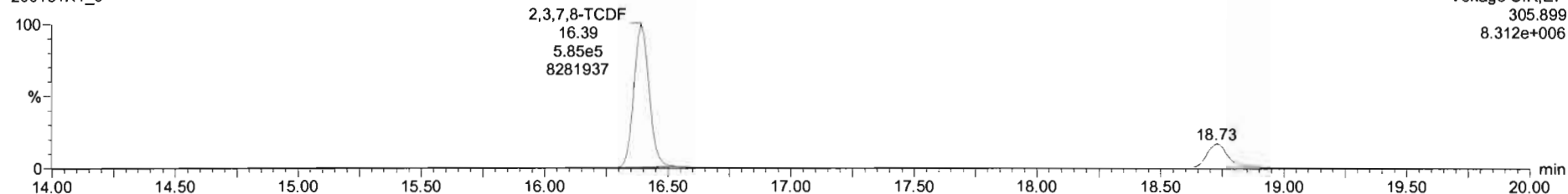
2,3,7,8-TCDF

200131K1_6



Voltage SIR,EI+
303.9016
6.623e+006

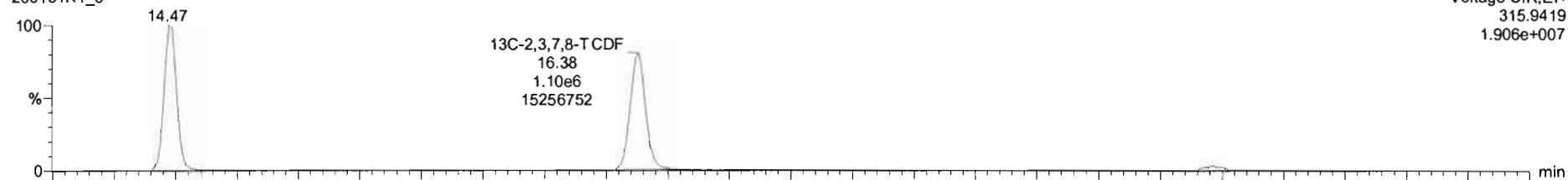
200131K1_6



Voltage SIR,EI+
305.899
8.312e+006

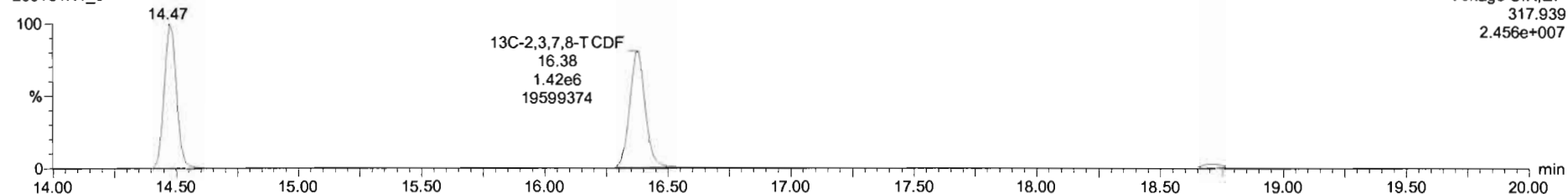
13C-2,3,7,8-TCDF

200131K1_6



Voltage SIR,EI+
315.9419
1.906e+007

200131K1_6



Voltage SIR,EI+
317.939
2.456e+007

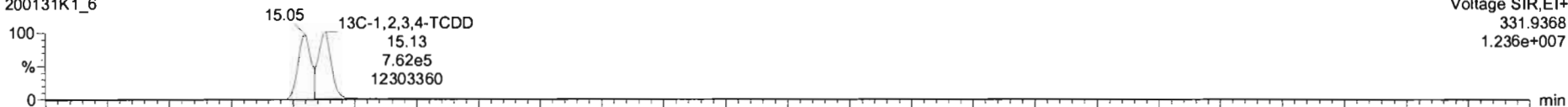
Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

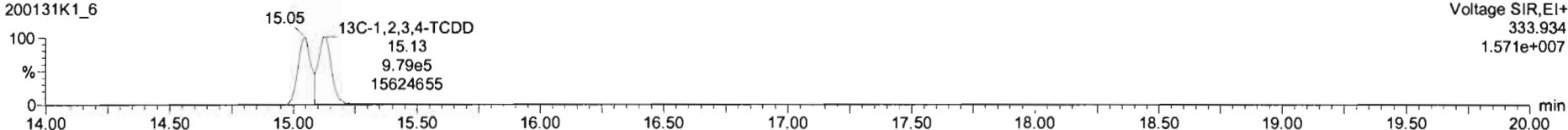
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13C-1,2,3,4-TCDD

200131K1_6

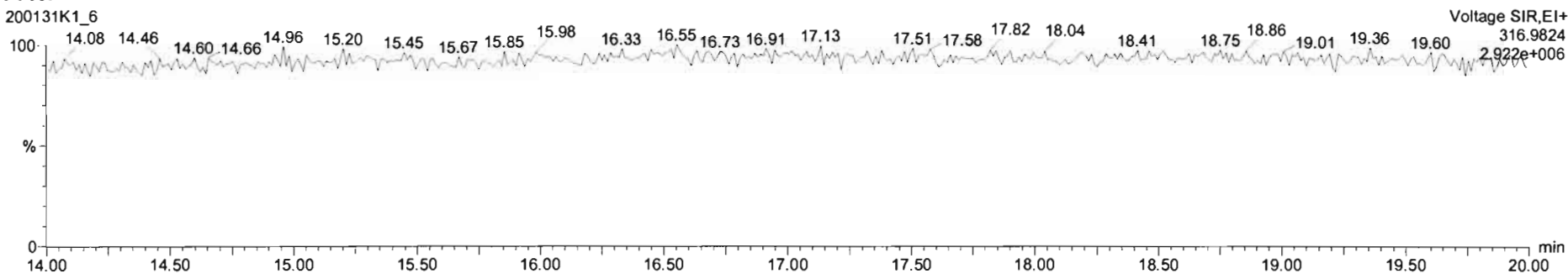


200131K1_6



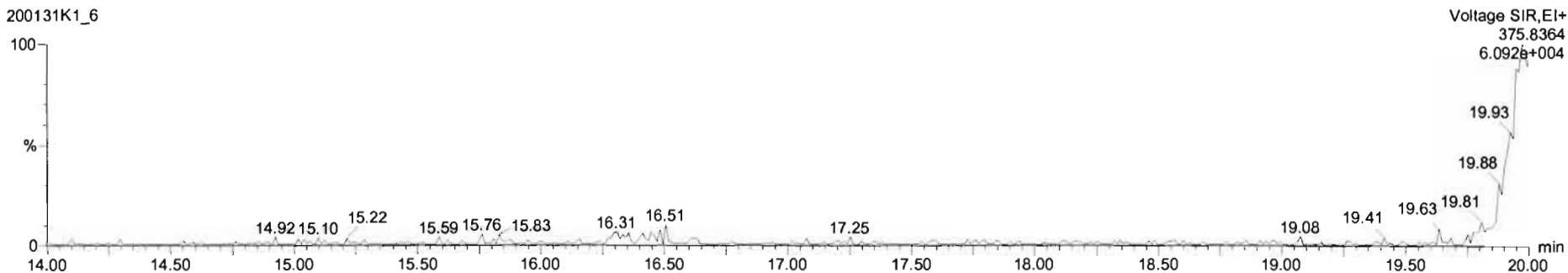
PFK1

200131K1_6



DPE1

200131K1_6



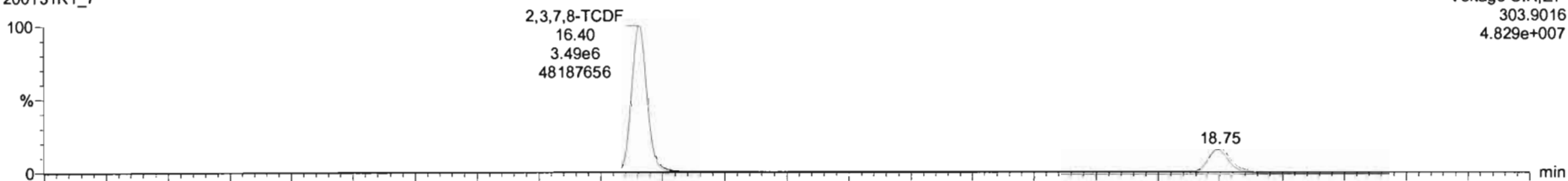
Dataset: Untitled

Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

Name: 200131K1_7, Date: 31-Jan-2020, Time: 13:16:14, ID: ST200131K1-6 1613 CS5 19C2206, Description: 1613 CS5 19C2206

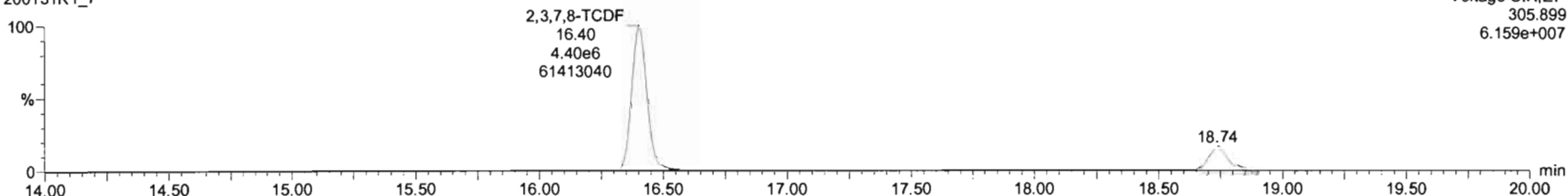
2,3,7,8-TCDF

200131K1_7



Voltage SIR,EI+
303.9016
4.829e+007

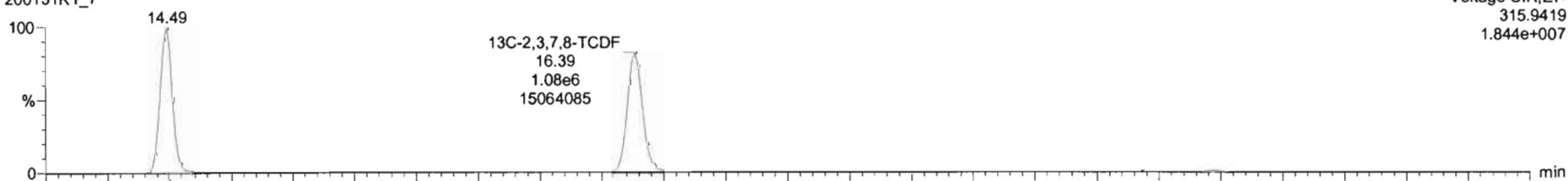
200131K1_7



Voltage SIR,EI+
305.899
6.159e+007

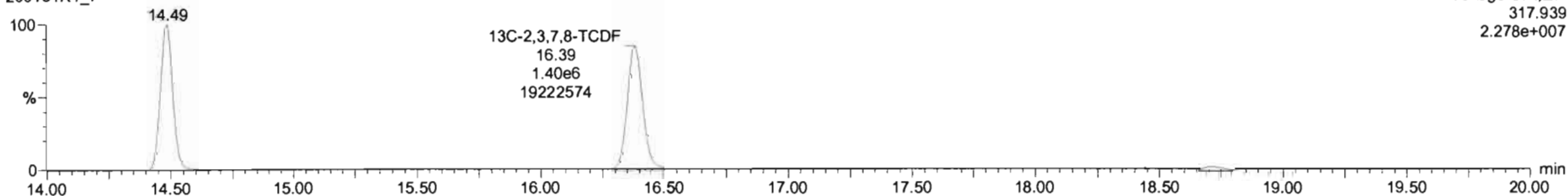
13C-2,3,7,8-TCDF

200131K1_7



Voltage SIR,EI+
315.9419
1.844e+007

200131K1_7



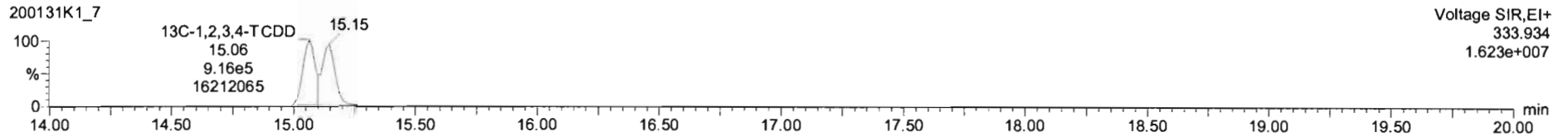
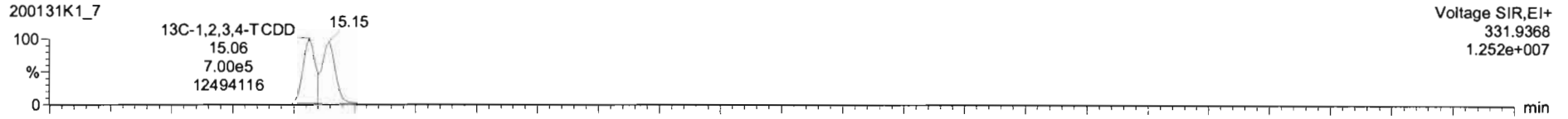
Voltage SIR,EI+
317.939
2.278e+007

Dataset: Untitled

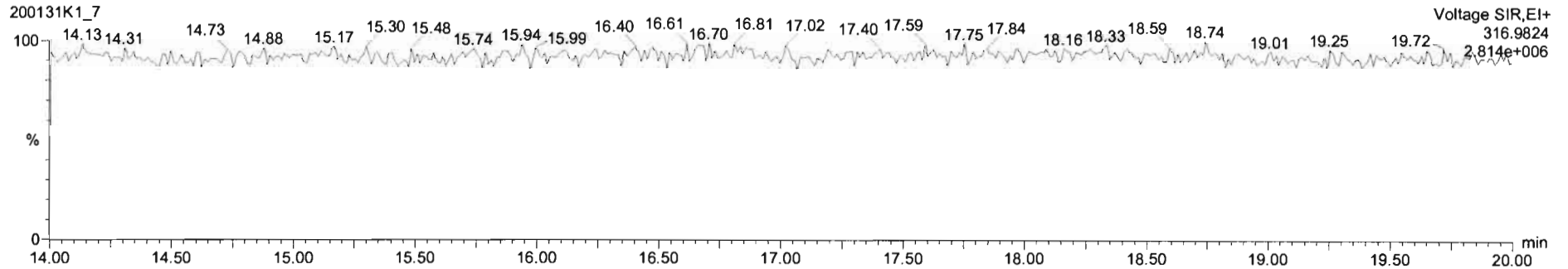
Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

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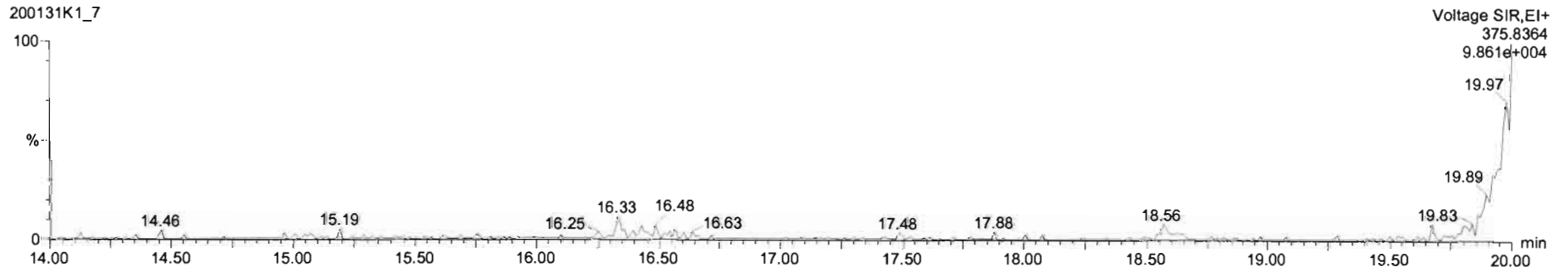
13C-1,2,3,4-TCDD

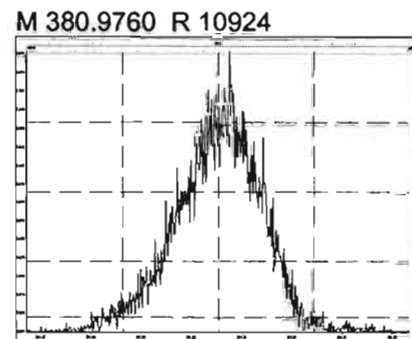
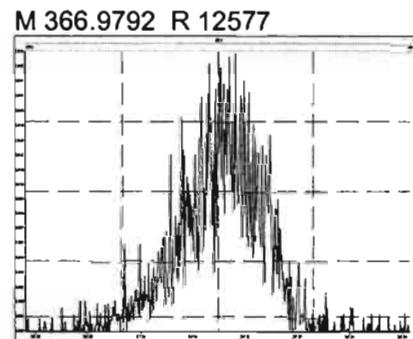
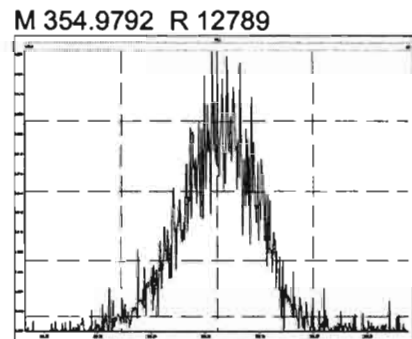
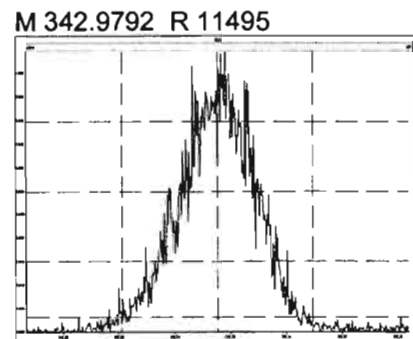
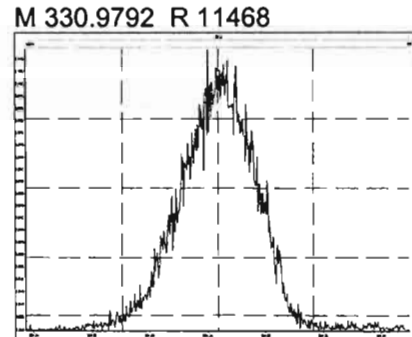
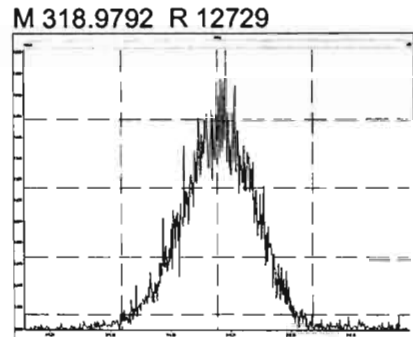
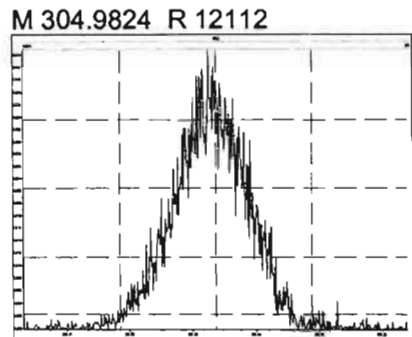
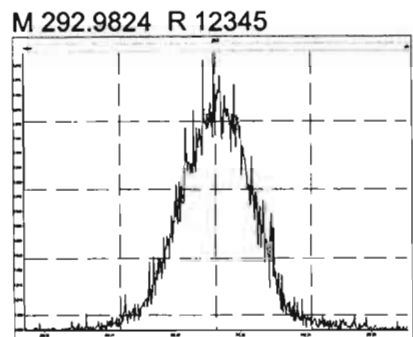


PFK1



DPE1





Dataset: U:\VG11.PRO\Results\200131K1\200131K1-9.qld

Last Altered: Saturday, February 01, 2020 08:31:58 Pacific Standard Time

Printed: Saturday, February 01, 2020 08:32:13 Pacific Standard Time

Hz 1.20W

CT 02/03/2020

Method: U:\VG11.PRO\MethDB\tcdf.mdb 31 Jan 2020 07:42:36

Calibration: U:\VG11.PRO\CurveDB\db225_1613TCDFvg11-1-31-20.cdb 31 Jan 2020 13:49:37

Name: 200131K1_9, Date: 31-Jan-2020, Time: 14:19:06, ID: SS200131K1-1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.08e5	0.78	NO	1.04	1.000	16.40	10.088	101	0.0618
2	2 13C-2,3,7,8-TCDF	1.99e6	0.76	NO	1.02	1.000	16.39	94.052	94.1	0.102
3	3 13C-1,2,3,4-TCDF	2.07e6	0.80	NO	1.00	1.000	14.48	100.00	100	0.104
4	4 13C-1,2,3,4-TCDD	1.39e6	0.79	NO		1.000	15.13			

5-14.701

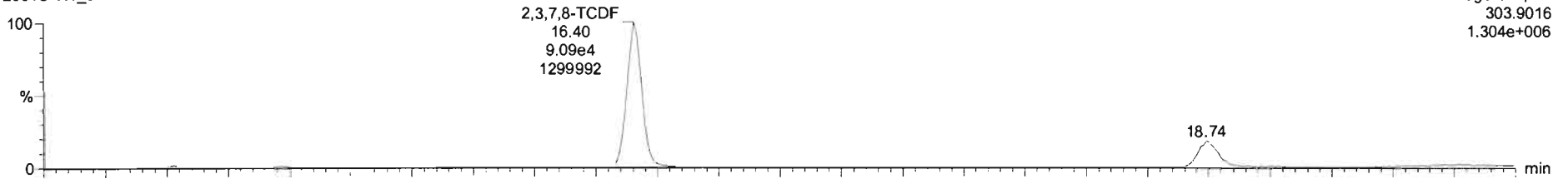
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Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

Name: 200131K1_9, Date: 31-Jan-2020, Time: 14:19:06, ID: SS200131K1-1 1613 SSS 19C2207, Description: 1613 SSS 19C2207

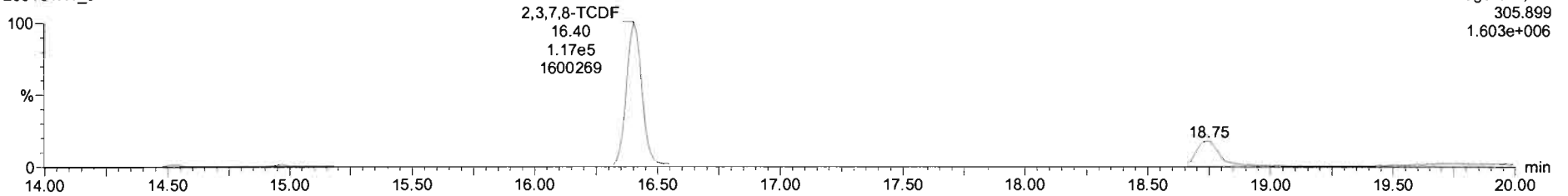
2,3,7,8-TCDF

200131K1_9



Voltage SIR,EI+
303.9016
1.304e+006

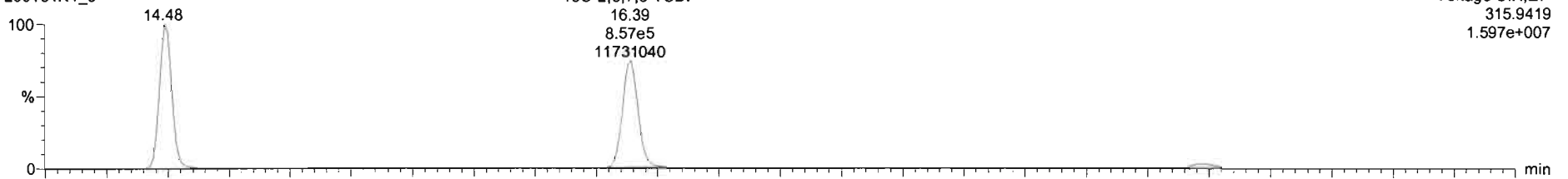
200131K1_9



Voltage SIR,EI+
305.899
1.603e+006

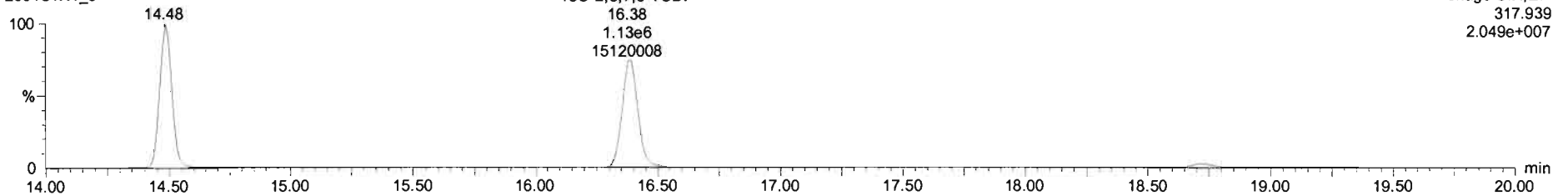
13C-2,3,7,8-TCDF

200131K1_9



Voltage SIR,EI+
315.9419
1.597e+007

200131K1_9



Voltage SIR,EI+
317.939
2.049e+007

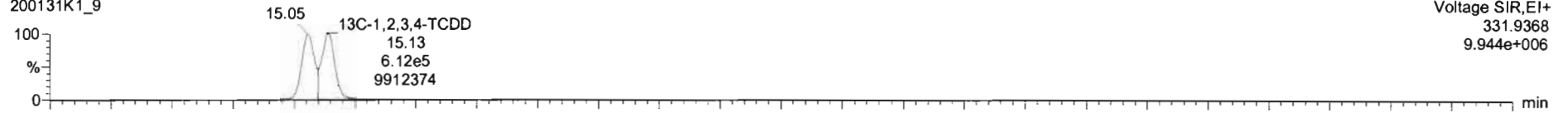
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Last Altered: Saturday, February 01, 2020 07:48:11 Pacific Standard Time
Printed: Saturday, February 01, 2020 07:58:45 Pacific Standard Time

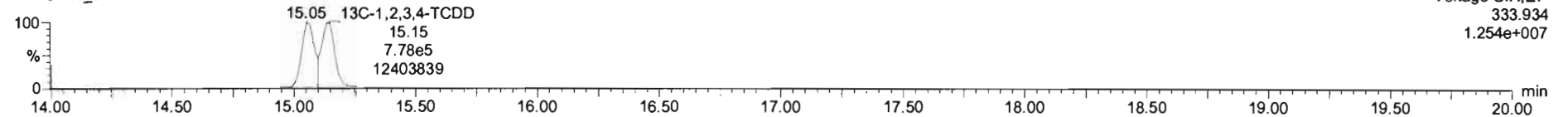
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13C-1,2,3,4-TCDD

200131K1_9

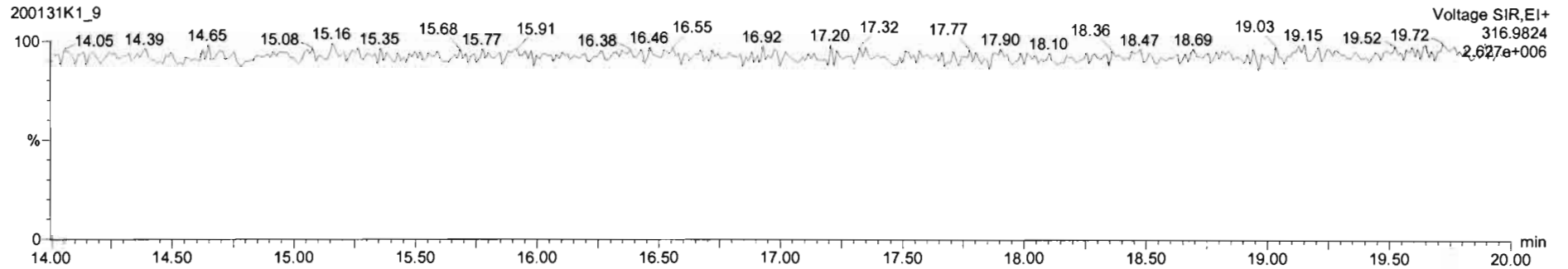


200131K1_9



PFK1

200131K1_9



DPE1

200131K1_9

