

March 19, 2020

Vista Work Order No. 1903737

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

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on October 18, 2019 under your Project Name 'Gasco PDI'.

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

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

Sincerely,

Martha Maier
Laboratory Director



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

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Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes above 1/2 the quantitation limit were detected in the Method Blank. The OPR recoveries were within the method acceptance criteria.

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

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-2,3,7,8-TCDD	H	21.3
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,7,8-PeCDD	H	22.6
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,4,7,8-HxCDD	H	18.6
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,6,7,8-HxCDD	H	20.9
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDD	H	19.7
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,4,6,7,8-HpCDD	H	20.9
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-2,3,7,8-TCDF	H	20.7
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,7,8-PeCDF	H	21.0
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,4,7,8-HxCDF	H	21.1
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,6,7,8-HxCDF	H	21.5
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-2,3,4,6,7,8-HxCDF	H	21.1
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDF	H	21.2
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,4,6,7,8-HpCDF	H	21.8
1903737-04	PDI-049SC-B-06-08-191015	EPA Method 1613B	13C-1,2,3,4,7,8,9-HpCDF	H	22.2
1903737-07	PDI-052SC-B-04-06-191015	EPA Method 1613B	13C-OCDD	H	2.30
1903737-07	PDI-052SC-B-04-06-191015	EPA Method 1613B	13C-OCDF	H	10.8

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1903737-01	PDI-049SC-B-00-02-191015	15-Oct-19 13:32	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-02	PDI-049SC-B-02-04-191015	15-Oct-19 13:32	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-03	PDI-049SC-B-04-06-191015	15-Oct-19 13:32	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-04	PDI-049SC-B-06-08-191015	15-Oct-19 13:32	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-05	PDI-052SC-B-00-02-191015	15-Oct-19 08:54	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-06	PDI-052SC-B-02-04-191015	15-Oct-19 08:54	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-07	PDI-052SC-B-04-06-191015	15-Oct-19 08:54	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-08	PDI-052SC-B-06-08-191015	15-Oct-19 08:54	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-09	PDI-055SC-B-00-02-191015	15-Oct-19 10:47	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-10	PDI-055SC-B-02-04-191015	15-Oct-19 10:47	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-11	PDI-055SC-B-04-06-191015	15-Oct-19 10:47	18-Oct-19 08:59	Amber Glass, 120 mL
1903737-12	PDI-055SC-B-06-08-191015	15-Oct-19 10:47	18-Oct-19 08:59	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37		Lab Sample: B0A0229-BLK1 Date Analyzed: 29-Feb-20 13:36 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0400			IS 13C-2,3,7,8-TCDD	96.5	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0387			13C-1,2,3,7,8-PeCDD	93.2	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0514			13C-1,2,3,4,7,8-HxCDD	82.5	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0512			13C-1,2,3,6,7,8-HxCDD	91.6	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0635			13C-1,2,3,7,8,9-HxCDD	85.7	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.106			13C-1,2,3,4,6,7,8-HpCDD	90.1	23 - 140		
OCDD	0.287			J	13C-OCDD	75.2	17 - 157		
2,3,7,8-TCDF	ND	0.0303			13C-2,3,7,8-TCDF	98.2	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0318			13C-1,2,3,7,8-PeCDF	89.8	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0296			13C-2,3,4,7,8-PeCDF	90.7	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0420			13C-1,2,3,4,7,8-HxCDF	89.2	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0410			13C-1,2,3,6,7,8-HxCDF	95.4	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0445			13C-2,3,4,6,7,8-HxCDF	90.7	28 - 136		
1,2,3,7,8,9-HxCDF	0.0852			J	13C-1,2,3,7,8,9-HxCDF	93.8	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0645			13C-1,2,3,4,6,7,8-HpCDF	95.9	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0864			13C-1,2,3,4,7,8,9-HpCDF	94.0	26 - 138		
OCDF	ND	0.0874			13C-OCDF	80.7	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	91.4	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00861		
TOTALS									
Total TCDD	ND	0.0400							
Total PeCDD	ND	0.0387							
Total HxCDD	ND	0.0635							
Total HpCDD	ND	0.106							
Total TCDF	ND	0.0303							
Total PeCDF	ND	0.0318							
Total HxCDF	0.0852		0.105						
Total HpCDF	ND	0.0864							

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: B0A0229 Date Extracted: 30-Jan-2020 12:37		Lab Sample: B0A0229-BS1 Date Analyzed: 29-Feb-20 12:03 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	17.3	20.0	86.3	67 - 158	IS 13C-2,3,7,8-TCDD	86.4	20 - 175
1,2,3,7,8-PeCDD	85.2	100	85.2	70 - 142	13C-1,2,3,7,8-PeCDD	88.7	21 - 227
1,2,3,4,7,8-HxCDD	93.2	100	93.2	70 - 164	13C-1,2,3,4,7,8-HxCDD	74.9	21 - 193
1,2,3,6,7,8-HxCDD	98.4	100	98.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	92.1	25 - 163
1,2,3,7,8,9-HxCDD	95.9	100	95.9	64 - 162	13C-1,2,3,7,8,9-HxCDD	92.3	21 - 193
1,2,3,4,6,7,8-HpCDD	96.3	100	96.3	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	86.9	26 - 166
OCDD	181	200	90.7	78 - 144	13C-OCDD	78.2	13 - 199
2,3,7,8-TCDF	19.8	20.0	99.0	75 - 158	13C-2,3,7,8-TCDF	86.5	22 - 152
1,2,3,7,8-PeCDF	94.2	100	94.2	80 - 134	13C-1,2,3,7,8-PeCDF	84.6	21 - 192
2,3,4,7,8-PeCDF	96.4	100	96.4	68 - 160	13C-2,3,4,7,8-PeCDF	85.8	13 - 328
1,2,3,4,7,8-HxCDF	109	100	109	72 - 134	13C-1,2,3,4,7,8-HxCDF	80.3	19 - 202
1,2,3,6,7,8-HxCDF	111	100	111	84 - 130	13C-1,2,3,6,7,8-HxCDF	89.4	21 - 159
2,3,4,6,7,8-HxCDF	107	100	107	70 - 156	13C-2,3,4,6,7,8-HxCDF	87.3	22 - 176
1,2,3,7,8,9-HxCDF	98.7	100	98.7	78 - 130	13C-1,2,3,7,8,9-HxCDF	88.3	17 - 205
1,2,3,4,6,7,8-HpCDF	111	100	111	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	94.3	21 - 158
1,2,3,4,7,8,9-HpCDF	116	100	116	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	89.7	20 - 186
OCDF	204	200	102	63 - 170	13C-OCDF	82.9	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	82.7	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-049SC-B-00-02-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-01 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 19.2 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 13:32	% Solids: 52.3	Date Analyzed : 12-Mar-20 08:28 Column: DB-225 29-Feb-20 14:24 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.203		IS 13C-2,3,7,8-TCDD	81.5	25 - 164	
1,2,3,7,8-PeCDD	0.263			J	13C-1,2,3,7,8-PeCDD	78.3	25 - 181	
1,2,3,4,7,8-HxCDD	0.317			J	13C-1,2,3,4,7,8-HxCDD	67.7	32 - 141	
1,2,3,6,7,8-HxCDD	1.49			J	13C-1,2,3,6,7,8-HxCDD	77.1	28 - 130	
1,2,3,7,8,9-HxCDD	0.548			J	13C-1,2,3,7,8,9-HxCDD	74.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	67.5				13C-1,2,3,4,6,7,8-HpCDD	74.9	23 - 140	
OCDD	779			B	13C-OCDD	61.0	17 - 157	
2,3,7,8-TCDF	10.4				13C-2,3,7,8-TCDF	82.0	24 - 169	
1,2,3,7,8-PeCDF	12.8				13C-1,2,3,7,8-PeCDF	74.6	24 - 185	
2,3,4,7,8-PeCDF	2.23			J	13C-2,3,4,7,8-PeCDF	74.6	21 - 178	
1,2,3,4,7,8-HxCDF	16.2				13C-1,2,3,4,7,8-HxCDF	73.8	26 - 152	
1,2,3,6,7,8-HxCDF	4.98				13C-1,2,3,6,7,8-HxCDF	77.1	26 - 123	
2,3,4,6,7,8-HxCDF	1.46			J	13C-2,3,4,6,7,8-HxCDF	73.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.482			J, B	13C-1,2,3,7,8,9-HxCDF	73.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	13.4				13C-1,2,3,4,6,7,8-HpCDF	76.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.94				13C-1,2,3,4,7,8,9-HpCDF	76.5	26 - 138	
OCDF	35.9				13C-OCDF	63.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	89.9	35 - 197	

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

TEQMinWHO2005Dioxin 5.99

TOTALS			
Total TCDD	0.554		1.04
Total PeCDD	2.51		
Total HxCDD	19.3		
Total HpCDD	151		
Total TCDF	41.0		
Total PeCDF	41.8		42.2
Total HxCDF	39.6		39.7 B
Total HpCDF	45.6		45.8

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

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

Sample ID: PDI-049SC-B-02-04-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-02 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 18.7 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 13:32	% Solids: 53.7	Date Analyzed : 12-Mar-20 08:58 Column: DB-225 29-Feb-20 15:11 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.128		IS 13C-2,3,7,8-TCDD	74.5	25 - 164	
1,2,3,7,8-PeCDD	0.218			J	13C-1,2,3,7,8-PeCDD	75.6	25 - 181	
1,2,3,4,7,8-HxCDD	0.407			J	13C-1,2,3,4,7,8-HxCDD	65.2	32 - 141	
1,2,3,6,7,8-HxCDD	1.88			J	13C-1,2,3,6,7,8-HxCDD	73.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.243		13C-1,2,3,7,8,9-HxCDD	71.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	80.3				13C-1,2,3,4,6,7,8-HpCDD	73.1	23 - 140	
OCDD	959			B	13C-OCDD	69.1	17 - 157	
2,3,7,8-TCDF	32.6				13C-2,3,7,8-TCDF	74.9	24 - 169	
1,2,3,7,8-PeCDF	53.7				13C-1,2,3,7,8-PeCDF	70.8	24 - 185	
2,3,4,7,8-PeCDF	26.4				13C-2,3,4,7,8-PeCDF	70.6	21 - 178	
1,2,3,4,7,8-HxCDF	56.8				13C-1,2,3,4,7,8-HxCDF	71.5	26 - 152	
1,2,3,6,7,8-HxCDF	15.9				13C-1,2,3,6,7,8-HxCDF	75.0	26 - 123	
2,3,4,6,7,8-HxCDF	3.87				13C-2,3,4,6,7,8-HxCDF	70.4	28 - 136	
1,2,3,7,8,9-HxCDF	1.21			J, B	13C-1,2,3,7,8,9-HxCDF	72.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	24.6				13C-1,2,3,4,6,7,8-HpCDF	76.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	6.61				13C-1,2,3,4,7,8,9-HpCDF	77.2	26 - 138	
OCDF	50.9				13C-OCDF	69.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.6	35 - 197	

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

TEQMinWHO2005Dioxin 22.4

TOTALS			
Total TCDD	1.11		1.36
Total PeCDD	2.69		2.83
Total HxCDD	23.8		24.1
Total HpCDD	184		
Total TCDF	84.0		85.9
Total PeCDF	132		
Total HxCDF	107		B
Total HpCDF	77.3		

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-049SC-B-04-06-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-03 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 16.5 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 13:32	% Solids: 60.5	Date Analyzed : 12-Mar-20 09:29 Column: DB-225 29-Feb-20 15:59 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0886			IS 13C-2,3,7,8-TCDD	56.3	25 - 164	
1,2,3,7,8-PeCDD	ND		0.111		13C-1,2,3,7,8-PeCDD	57.4	25 - 181	
1,2,3,4,7,8-HxCDD	1.06			J	13C-1,2,3,4,7,8-HxCDD	52.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.158			13C-1,2,3,6,7,8-HxCDD	56.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.174			J	13C-1,2,3,7,8,9-HxCDD	53.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	47.3				13C-1,2,3,4,6,7,8-HpCDD	59.5	23 - 140	
OCDD	482			B	13C-OCDD	52.6	17 - 157	
2,3,7,8-TCDF	1.41				13C-2,3,7,8-TCDF	55.6	24 - 169	
1,2,3,7,8-PeCDF	2.18			J	13C-1,2,3,7,8-PeCDF	54.1	24 - 185	
2,3,4,7,8-PeCDF	0.397			J	13C-2,3,4,7,8-PeCDF	54.9	21 - 178	
1,2,3,4,7,8-HxCDF	4.36				13C-1,2,3,4,7,8-HxCDF	54.8	26 - 152	
1,2,3,6,7,8-HxCDF	1.53			J	13C-1,2,3,6,7,8-HxCDF	57.9	26 - 123	
2,3,4,6,7,8-HxCDF	0.626			J	13C-2,3,4,6,7,8-HxCDF	56.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.129		13C-1,2,3,7,8,9-HxCDF	57.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	13.6				13C-1,2,3,4,6,7,8-HpCDF	58.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.14			J	13C-1,2,3,4,7,8,9-HpCDF	61.1	26 - 138	
OCDF	14.0				13C-OCDF	53.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	82.5	35 - 197	

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

TEQMinWHO2005Dioxin 1.87

TOTALS			
Total TCDD	0.252		
Total PeCDD	0.850	0.962	
Total HxCDD	12.9		
Total HpCDD	106		
Total TCDF	7.63		
Total PeCDF	12.9		
Total HxCDF	18.6	18.7	B
Total HpCDF	32.1		

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

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

Sample ID: PDI-049SC-B-06-08-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-04 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 13.2 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 13:32	% Solids: 75.7	Date Analyzed: 29-Feb-20 16:46 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.197			IS 13C-2,3,7,8-TCDD	21.3	25 - 164	H
1,2,3,7,8-PeCDD	ND	0.185			13C-1,2,3,7,8-PeCDD	22.6	25 - 181	H
1,2,3,4,7,8-HxCDD	ND	0.197			13C-1,2,3,4,7,8-HxCDD	18.6	32 - 141	H
1,2,3,6,7,8-HxCDD	ND	0.199			13C-1,2,3,6,7,8-HxCDD	20.9	28 - 130	H
1,2,3,7,8,9-HxCDD	ND	0.239			13C-1,2,3,7,8,9-HxCDD	19.7	32 - 141	H
1,2,3,4,6,7,8-HpCDD	2.77				13C-1,2,3,4,6,7,8-HpCDD	20.9	23 - 140	H
OCDD	34.3			B	13C-OCDD	18.7	17 - 157	
2,3,7,8-TCDF	ND	0.167			13C-2,3,7,8-TCDF	20.7	24 - 169	H
1,2,3,7,8-PeCDF	ND	0.159			13C-1,2,3,7,8-PeCDF	21.0	24 - 185	H
2,3,4,7,8-PeCDF	ND	0.143			13C-2,3,4,7,8-PeCDF	21.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.149			13C-1,2,3,4,7,8-HxCDF	21.1	26 - 152	H
1,2,3,6,7,8-HxCDF	ND	0.155			13C-1,2,3,6,7,8-HxCDF	21.5	26 - 123	H
2,3,4,6,7,8-HxCDF	ND	0.159			13C-2,3,4,6,7,8-HxCDF	21.1	28 - 136	H
1,2,3,7,8,9-HxCDF	ND	0.226			13C-1,2,3,7,8,9-HxCDF	21.2	29 - 147	H
1,2,3,4,6,7,8-HpCDF	2.49			J	13C-1,2,3,4,6,7,8-HpCDF	21.8	28 - 143	H
1,2,3,4,7,8,9-HpCDF	ND	0.427			13C-1,2,3,4,7,8,9-HpCDF	22.2	26 - 138	H
OCDF	ND		1.26		13C-OCDF	19.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0629

TOTALS								
Total TCDD	ND	0.197						
Total PeCDD	ND	0.185						
Total HxCDD	0.595							
Total HpCDD	6.57							
Total TCDF	ND	0.167						
Total PeCDF	0.788							
Total HxCDF	1.79			B				
Total HpCDF	4.81							

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-052SC-B-00-02-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-05 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 19.0 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 8:54	% Solids: 52.7	Date Analyzed : 12-Mar-20 09:59 Column: DB-225 29-Feb-20 17:33 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0791		IS 13C-2,3,7,8-TCDD	99.3	25 - 164	
1,2,3,7,8-PeCDD	0.112			J	13C-1,2,3,7,8-PeCDD	98.1	25 - 181	
1,2,3,4,7,8-HxCDD	0.217			J	13C-1,2,3,4,7,8-HxCDD	85.9	32 - 141	
1,2,3,6,7,8-HxCDD	1.28			J	13C-1,2,3,6,7,8-HxCDD	92.7	28 - 130	
1,2,3,7,8,9-HxCDD	0.416			J	13C-1,2,3,7,8,9-HxCDD	88.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	57.8				13C-1,2,3,4,6,7,8-HpCDD	94.3	23 - 140	
OCDD	459			B	13C-OCDD	90.6	17 - 157	
2,3,7,8-TCDF	4.54				13C-2,3,7,8-TCDF	97.1	24 - 169	
1,2,3,7,8-PeCDF	5.63				13C-1,2,3,7,8-PeCDF	91.9	24 - 185	
2,3,4,7,8-PeCDF	3.14				13C-2,3,4,7,8-PeCDF	92.4	21 - 178	
1,2,3,4,7,8-HxCDF	9.69				13C-1,2,3,4,7,8-HxCDF	98.0	26 - 152	
1,2,3,6,7,8-HxCDF	3.27				13C-1,2,3,6,7,8-HxCDF	94.8	26 - 123	
2,3,4,6,7,8-HxCDF	0.841			J	13C-2,3,4,6,7,8-HxCDF	96.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.384			J, B	13C-1,2,3,7,8,9-HxCDF	96.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	8.65				13C-1,2,3,4,6,7,8-HpCDF	98.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.08			J	13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	28.7				13C-OCDF	90.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.1	35 - 197	

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

TEQMinWHO2005Dioxin 4.12

TOTALS								
Total TCDD	0.298		0.538					
Total PeCDD	0.676		1.29					
Total HxCDD	15.5		16.2					
Total HpCDD	142							
Total TCDF	14.8		16.5					
Total PeCDF	18.4		18.6					
Total HxCDF	22.9		23.0	B				
Total HpCDF	27.1							

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

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

Sample ID: PDI-052SC-B-02-04-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-06 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 17.7 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 8:54	% Solids: 56.8	Date Analyzed : 12-Mar-20 10:29 Column: DB-225 29-Feb-20 18:21 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.39				IS 13C-2,3,7,8-TCDD	102	25 - 164	
1,2,3,7,8-PeCDD	2.14			J	13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	2.98				13C-1,2,3,4,7,8-HxCDD	84.8	32 - 141	
1,2,3,6,7,8-HxCDD	11.1				13C-1,2,3,6,7,8-HxCDD	96.2	28 - 130	
1,2,3,7,8,9-HxCDD	5.90				13C-1,2,3,7,8,9-HxCDD	88.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	379				13C-1,2,3,4,6,7,8-HpCDD	98.8	23 - 140	
OCDD	4330			B	13C-OCDD	80.7	17 - 157	
2,3,7,8-TCDF	84.7				13C-2,3,7,8-TCDF	103	24 - 169	
1,2,3,7,8-PeCDF	122				13C-1,2,3,7,8-PeCDF	98.9	24 - 185	
2,3,4,7,8-PeCDF	9.36				13C-2,3,4,7,8-PeCDF	95.3	21 - 178	
1,2,3,4,7,8-HxCDF	261				13C-1,2,3,4,7,8-HxCDF	96.0	26 - 152	
1,2,3,6,7,8-HxCDF	76.9				13C-1,2,3,6,7,8-HxCDF	96.4	26 - 123	
2,3,4,6,7,8-HxCDF	19.5				13C-2,3,4,6,7,8-HxCDF	92.8	28 - 136	
1,2,3,7,8,9-HxCDF	4.60			B	13C-1,2,3,7,8,9-HxCDF	95.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	166				13C-1,2,3,4,6,7,8-HpCDF	97.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	50.7				13C-1,2,3,4,7,8,9-HpCDF	103	26 - 138	
OCDF	273				13C-OCDF	82.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.6	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 64.0

TOTALS								
Total TCDD	8.30		8.52					
Total PeCDD	8.79		12.8					
Total HxCDD	97.2							
Total HpCDD	800							
Total TCDF	294		303					
Total PeCDF	366							
Total HxCDF	510			B				
Total HpCDF	414							

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-052SC-B-04-06-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-07 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 16.9 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 8:54	% Solids: 59.2	Date Analyzed : 12-Mar-20 11:00 Column: DB-225 29-Feb-20 19:08 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.08				IS 13C-2,3,7,8-TCDD	96.8	25 - 164	
1,2,3,7,8-PeCDD	1.54			J	13C-1,2,3,7,8-PeCDD	98.2	25 - 181	
1,2,3,4,7,8-HxCDD	1.44			J	13C-1,2,3,4,7,8-HxCDD	77.4	32 - 141	
1,2,3,6,7,8-HxCDD	9.90				13C-1,2,3,6,7,8-HxCDD	85.7	28 - 130	
1,2,3,7,8,9-HxCDD	4.29				13C-1,2,3,7,8,9-HxCDD	79.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	469				13C-1,2,3,4,6,7,8-HpCDD	49.4	23 - 140	
OCDD	4520			B	13C-OCDD	2.30	17 - 157	H
2,3,7,8-TCDF	49.2				13C-2,3,7,8-TCDF	97.9	24 - 169	
1,2,3,7,8-PeCDF	68.4				13C-1,2,3,7,8-PeCDF	85.1	24 - 185	
2,3,4,7,8-PeCDF	10.4				13C-2,3,4,7,8-PeCDF	93.4	21 - 178	
1,2,3,4,7,8-HxCDF	110				13C-1,2,3,4,7,8-HxCDF	89.1	26 - 152	
1,2,3,6,7,8-HxCDF	32.7				13C-1,2,3,6,7,8-HxCDF	85.2	26 - 123	
2,3,4,6,7,8-HxCDF	10.5				13C-2,3,4,6,7,8-HxCDF	79.8	28 - 136	
1,2,3,7,8,9-HxCDF	3.40			B	13C-1,2,3,7,8,9-HxCDF	88.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	98.0				13C-1,2,3,4,6,7,8-HpCDF	77.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	20.1				13C-1,2,3,4,7,8,9-HpCDF	81.9	26 - 138	
OCDF	198				13C-OCDF	10.8	17 - 157	H
					CRS 37Cl-2,3,7,8-TCDD	86.2	35 - 197	

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

TEQMinWHO2005Dioxin 37.2

TOTALS				
Total TCDD	12.3			
Total PeCDD	17.2	17.6		
Total HxCDD	151			
Total HpCDD	1640			
Total TCDF	204			
Total PeCDF	242	277		
Total HxCDF	277		B	
Total HpCDF	351			

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-052SC-B-06-08-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-08 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 13.9 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 8:54	% Solids: 72.2	Date Analyzed : 12-Mar-20 11:30 Column: DB-225 29-Feb-20 19:56 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.317		IS 13C-2,3,7,8-TCDD	98.8	25 - 164	
1,2,3,7,8-PeCDD	0.314			J	13C-1,2,3,7,8-PeCDD	97.7	25 - 181	
1,2,3,4,7,8-HxCDD	0.325			J	13C-1,2,3,4,7,8-HxCDD	90.6	32 - 141	
1,2,3,6,7,8-HxCDD	1.57			J	13C-1,2,3,6,7,8-HxCDD	94.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.864			J	13C-1,2,3,7,8,9-HxCDD	91.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	49.3				13C-1,2,3,4,6,7,8-HpCDD	106	23 - 140	
OCDD	634			B	13C-OCDD	97.4	17 - 157	
2,3,7,8-TCDF	13.3				13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	14.4				13C-1,2,3,7,8-PeCDF	95.3	24 - 185	
2,3,4,7,8-PeCDF	8.65				13C-2,3,4,7,8-PeCDF	96.9	21 - 178	
1,2,3,4,7,8-HxCDF	25.6				13C-1,2,3,4,7,8-HxCDF	94.5	26 - 152	
1,2,3,6,7,8-HxCDF	7.74				13C-1,2,3,6,7,8-HxCDF	93.8	26 - 123	
2,3,4,6,7,8-HxCDF	2.08			J	13C-2,3,4,6,7,8-HxCDF	95.0	28 - 136	
1,2,3,7,8,9-HxCDF	1.48			J, B	13C-1,2,3,7,8,9-HxCDF	98.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	22.1				13C-1,2,3,4,6,7,8-HpCDF	104	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.92				13C-1,2,3,4,7,8,9-HpCDF	111	26 - 138	
OCDF	45.0				13C-OCDF	96.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	90.8	35 - 197	

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

TEQMinWHO2005Dioxin 9.60

TOTALS			
Total TCDD	1.22		1.64
Total PeCDD	2.42		2.61
Total HxCDD	15.9		
Total HpCDD	112		
Total TCDF	52.3		53.9
Total PeCDF	49.1		
Total HxCDF	56.3		B
Total HpCDF	59.2		59.4

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-055SC-B-00-02-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-09 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 18.7 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 10:47	% Solids: 53.6	Date Analyzed : 12-Mar-20 12:01 Column: DB-225 29-Feb-20 20:43 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.92				IS 13C-2,3,7,8-TCDD	89.1	25 - 164	
1,2,3,7,8-PeCDD	2.65				13C-1,2,3,7,8-PeCDD	86.3	25 - 181	
1,2,3,4,7,8-HxCDD	3.32				13C-1,2,3,4,7,8-HxCDD	74.9	32 - 141	
1,2,3,6,7,8-HxCDD	19.4				13C-1,2,3,6,7,8-HxCDD	83.3	28 - 130	
1,2,3,7,8,9-HxCDD	8.88				13C-1,2,3,7,8,9-HxCDD	76.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	501				13C-1,2,3,4,6,7,8-HpCDD	85.9	23 - 140	
OCDD	4830			B	13C-OCDD	59.9	17 - 157	
2,3,7,8-TCDF	87.7				13C-2,3,7,8-TCDF	91.0	24 - 169	
1,2,3,7,8-PeCDF	129				13C-1,2,3,7,8-PeCDF	84.8	24 - 185	
2,3,4,7,8-PeCDF	64.4				13C-2,3,4,7,8-PeCDF	82.2	21 - 178	
1,2,3,4,7,8-HxCDF	249				13C-1,2,3,4,7,8-HxCDF	82.3	26 - 152	
1,2,3,6,7,8-HxCDF	74.1				13C-1,2,3,6,7,8-HxCDF	81.1	26 - 123	
2,3,4,6,7,8-HxCDF	18.4				13C-2,3,4,6,7,8-HxCDF	78.9	28 - 136	
1,2,3,7,8,9-HxCDF	4.23			B	13C-1,2,3,7,8,9-HxCDF	85.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	182				13C-1,2,3,4,6,7,8-HpCDF	86.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	40.6				13C-1,2,3,4,7,8,9-HpCDF	86.6	26 - 138	
OCDF	320				13C-OCDF	67.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	84.1	35 - 197	

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

TEQMinWHO2005Dioxin 83.0

TOTALS		
Total TCDD	16.6	17.0
Total PeCDD	23.4	
Total HxCDD	203	
Total HpCDD	1350	
Total TCDF	292	294
Total PeCDF	371	
Total HxCDF	522	B
Total HpCDF	538	

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-055SC-B-02-04-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-10 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 17.9 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 10:47	% Solids: 55.9	Date Analyzed : 12-Mar-20 12:31 Column: DB-225 29-Feb-20 21:30 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	7.78				IS 13C-2,3,7,8-TCDD	88.1	25 - 164	
1,2,3,7,8-PeCDD	5.41				13C-1,2,3,7,8-PeCDD	90.9	25 - 181	
1,2,3,4,7,8-HxCDD	3.99				13C-1,2,3,4,7,8-HxCDD	81.0	32 - 141	
1,2,3,6,7,8-HxCDD	23.4				13C-1,2,3,6,7,8-HxCDD	84.3	28 - 130	
1,2,3,7,8,9-HxCDD	9.97				13C-1,2,3,7,8,9-HxCDD	82.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	763				13C-1,2,3,4,6,7,8-HpCDD	85.5	23 - 140	
OCDD	6790			D, B	13C-OCDD	97.3	17 - 157	D
2,3,7,8-TCDF	290				13C-2,3,7,8-TCDF	88.4	24 - 169	
1,2,3,7,8-PeCDF	295				13C-1,2,3,7,8-PeCDF	84.1	24 - 185	
2,3,4,7,8-PeCDF	107				13C-2,3,4,7,8-PeCDF	86.8	21 - 178	
1,2,3,4,7,8-HxCDF	522				13C-1,2,3,4,7,8-HxCDF	87.9	26 - 152	
1,2,3,6,7,8-HxCDF	149				13C-1,2,3,6,7,8-HxCDF	86.4	26 - 123	
2,3,4,6,7,8-HxCDF	37.1				13C-2,3,4,6,7,8-HxCDF	82.3	28 - 136	
1,2,3,7,8,9-HxCDF	40.7			B	13C-1,2,3,7,8,9-HxCDF	88.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	301				13C-1,2,3,4,6,7,8-HpCDF	89.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	101				13C-1,2,3,4,7,8,9-HpCDF	92.8	26 - 138	
OCDF	607				13C-OCDF	72.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	81.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 176

TOTALS								
Total TCDD	39.2		39.4					
Total PeCDD	40.3							
Total HxCDD	266							
Total HpCDD	1820							
Total TCDF	966		1000					
Total PeCDF	935							
Total HxCDF	1030			B				
Total HpCDF	816							

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-055SC-B-04-06-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-11 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 13.7 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 10:47	% Solids: 72.9	Date Analyzed : 01-Mar-20 04:45 Column: ZB-5MS 12-Mar-20 13:01 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.314		IS 13C-2,3,7,8-TCDD	93.8	25 - 164	
1,2,3,7,8-PeCDD	ND		0.330		13C-1,2,3,7,8-PeCDD	92.2	25 - 181	
1,2,3,4,7,8-HxCDD	0.449			J	13C-1,2,3,4,7,8-HxCDD	79.8	32 - 141	
1,2,3,6,7,8-HxCDD	2.95				13C-1,2,3,6,7,8-HxCDD	89.8	28 - 130	
1,2,3,7,8,9-HxCDD	1.41			J	13C-1,2,3,7,8,9-HxCDD	82.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	91.3				13C-1,2,3,4,6,7,8-HpCDD	91.3	23 - 140	
OCDD	1190			B	13C-OCDD	84.6	17 - 157	
2,3,7,8-TCDF	12.7				13C-2,3,7,8-TCDF	95.7	24 - 169	
1,2,3,7,8-PeCDF	19.8				13C-1,2,3,7,8-PeCDF	87.5	24 - 185	
2,3,4,7,8-PeCDF	11.7				13C-2,3,4,7,8-PeCDF	88.2	21 - 178	
1,2,3,4,7,8-HxCDF	39.6				13C-1,2,3,4,7,8-HxCDF	88.0	26 - 152	
1,2,3,6,7,8-HxCDF	14.0				13C-1,2,3,6,7,8-HxCDF	89.9	26 - 123	
2,3,4,6,7,8-HxCDF	3.62				13C-2,3,4,6,7,8-HxCDF	90.3	28 - 136	
1,2,3,7,8,9-HxCDF	1.32			J, B	13C-1,2,3,7,8,9-HxCDF	90.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	46.6				13C-1,2,3,4,6,7,8-HpCDF	93.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	9.24				13C-1,2,3,4,7,8,9-HpCDF	92.6	26 - 138	
OCDF	103				13C-OCDF	86.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	84.6	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 13.6

TOTALS								
Total TCDD	3.06		3.61					
Total PeCDD	3.84		4.40					
Total HxCDD	27.6							
Total HpCDD	208							
Total TCDF	44.4		47.7					
Total PeCDF	68.6							
Total HxCDF	100			B				
Total HpCDF	145							

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-055SC-B-06-08-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903737-12 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 13.3 g	QC Batch: B0A0229 Date Extracted: 30-Jan-2020 12:37
Date Collected: 15-Oct-2019 10:47	% Solids: 75.4	Date Analyzed: 01-Mar-20 05:33 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0477			IS 13C-2,3,7,8-TCDD	93.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0490			13C-1,2,3,7,8-PeCDD	93.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0589			13C-1,2,3,4,7,8-HxCDD	86.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0595			13C-1,2,3,6,7,8-HxCDD	90.3	28 - 130	
1,2,3,7,8,9-HxCDD	0.111			J	13C-1,2,3,7,8,9-HxCDD	87.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.09			J	13C-1,2,3,4,6,7,8-HpCDD	101	23 - 140	
OCDD	9.10			B	13C-OCDD	91.1	17 - 157	
2,3,7,8-TCDF	ND	0.0424			13C-2,3,7,8-TCDF	92.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0375			13C-1,2,3,7,8-PeCDF	87.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0356			13C-2,3,4,7,8-PeCDF	87.5	21 - 178	
1,2,3,4,7,8-HxCDF	0.141			J	13C-1,2,3,4,7,8-HxCDF	94.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0404			13C-1,2,3,6,7,8-HxCDF	95.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0456			13C-2,3,4,6,7,8-HxCDF	92.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0535		13C-1,2,3,7,8,9-HxCDF	93.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.131			J	13C-1,2,3,4,6,7,8-HpCDF	99.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.105			13C-1,2,3,4,7,8,9-HpCDF	99.5	26 - 138	
OCDF	0.274			J	13C-OCDF	93.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	82.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.0402

TOTALS			
Total TCDD	0.231		
Total PeCDD	0.100		0.179
Total HxCDD	0.924		1.23
Total HpCDD	2.86		
Total TCDF	ND	0.0424	
Total PeCDF	ND	0.0375	
Total HxCDF	0.141		0.229 B
Total HpCDF	0.131		0.315

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

COC ID: VIST1-20191015-152359
Sample Custodian: CO, SN, BJ, DL
Lab: VISTA - Archive

1903737 3.6°C, 1.4%

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-049SC-B-00-02-191015	N	SE	10/15/2019	13:32	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
002	PDI-049SC-B-02-04-191015	N	SE	10/15/2019	13:32	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
003	PDI-049SC-B-04-06-191015	N	SE	10/15/2019	13:32	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
004	PDI-049SC-B-06-08-191015	N	SE	10/15/2019	13:32	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
005	PDI-052SC-B-00-02-191015	N	SE	10/15/2019	8:54	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
006	PDI-052SC-B-02-04-191015	N	SE	10/15/2019	8:54	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
007	PDI-052SC-B-04-06-191015	N	SE	10/15/2019	8:54	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
008	PDI-052SC-B-06-08-191015	N	SE	10/15/2019	8:54	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
009	PDI-055SC-B-00-02-191015	N	SE	10/15/2019	10:47	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
010	PDI-055SC-B-02-04-191015	N	SE	10/15/2019	10:47	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
011	PDI-055SC-B-04-06-191015	N	SE	10/15/2019	10:47	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C

Comment:

Relinquished By: Signature: <i>[Signature]</i>	Received By: Signature: <i>[Signature]</i>	Relinquished By: Signature:	Received By: Signature:	Relinquished By: Signature:	Received By: Signature:
Print Name: <i>C. OREIRO</i>	Print Name: <i>Ashley Mason</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>AQ</i>	Company: <i>VAL</i>	Company:	Company:	Company:	Company:
Date/Time: <i>10/17/19 1355</i>	Date/Time: <i>10/18/19 0859</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

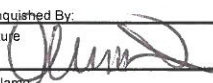
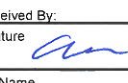
POC: # Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

1903737

COC ID: VIST1-20191015-152359
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
011	PDI-055SC-B-04-06-191015	N	SE	10/15/2019	10:47	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
012	PDI-055SC-B-06-08-191015	N	SE	10/15/2019	10:47	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. O'KEEFE	Print Name Ashley Mason	Print Name	Print Name	Print Name	Print Name
Company AQ	Company VAL	Company	Company	Company	Company
Date/Time 10/17/19 10:13	Date/Time 10/18/19 0859	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 #: 1903737

TAT std

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

	YES	NO	NA		
Shipping Container(s) Intact?	<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>1 of 2</u> Trk # <u>7767 5105 6110</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?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Logged In:	Date/Time 10/21/19 1357	Initials: WWS	Location: WF-2		
		Shelf/Rack: D-1			
COC Anomaly/Sample Acceptance Form completed?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments:

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903737 TAT std

Samples Arrival:	Date/Time 10/18/19 0859		Initials: ajrn		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: 1.4 (uncorrected)	Probe used: Y <input checked="" type="checkbox"/> N				Thermometer ID: IR-3		
Temp °C: 1.4 (corrected)							

	YES	NO	NA					
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Airbill <u>2 of 2</u> Trk # <u>7767 5105 6371</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 checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input checked="" type="checkbox"/> Retain					
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose						
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Logged In:	Date/Time 10/21/19 1357		Initials: WWS		Location: WF-2			
			Shelf/Rack: D-1					
COC Anomaly/Sample Acceptance Form completed?						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 1903737

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
1903737-01	A PDI-049SC-B-00-02-191015	<input checked="" type="checkbox"/>	A	001	15-Oct-19 13:32	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-02	A PDI-049SC-B-02-04-191015	<input checked="" type="checkbox"/>	B	002	15-Oct-19 13:32	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-03	A PDI-049SC-B-04-06-191015	<input checked="" type="checkbox"/>	B	003	15-Oct-19 13:32	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-04	A PDI-049SC-B-06-08-191015	<input checked="" type="checkbox"/>	B	004	15-Oct-19 13:32	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-05	A PDI-052SC-B-00-02-191015	<input checked="" type="checkbox"/>	B	005	15-Oct-19 08:54	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-06	A PDI-052SC-B-02-04-191015	<input checked="" type="checkbox"/>	B	006	15-Oct-19 08:54	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-07	A PDI-052SC-B-04-06-191015	<input checked="" type="checkbox"/>	B	007	15-Oct-19 08:54	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-08	A PDI-052SC-B-06-08-191015	<input checked="" type="checkbox"/>	B	008	15-Oct-19 08:54	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-09	A PDI-055SC-B-00-02-191015	<input checked="" type="checkbox"/>	B	009	15-Oct-19 10:47	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-10	A PDI-055SC-B-02-04-191015	<input checked="" type="checkbox"/>	B	010	15-Oct-19 10:47	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-11	A PDI-055SC-B-04-06-191015	<input checked="" type="checkbox"/>	B	011	15-Oct-19 10:47	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903737-12	A PDI-055SC-B-06-08-191015	<input checked="" type="checkbox"/>	B	012	15-Oct-19 10:47	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	

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

Comments: A-cooler #1

B-cooler #2

Verified by/Date: SC 10/22/19

EXTRACTION INFORMATION

Rx 01/30/19 ae



Process Sheet
Workorder: 1903737

Prep Expiration: 2020-10-14
Client: Anchor QEA, LLC

Workorder Due: 03-Jan-20 00:00
TAT: 77

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

Prep Batch: BOA0229

Prep Data Entered: 02/04/20 TL
Date and Initials

Initial Sequence: SOB0065

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903737-01	<input checked="" type="checkbox"/>	PDI-049SC-B-00-02-191015	18-Oct-19 08:59	WR-2 G-5	
1903737-02	<input checked="" type="checkbox"/>	PDI-049SC-B-02-04-191015	18-Oct-19 08:59	WR-2 G-5	
1903737-03	<input checked="" type="checkbox"/>	PDI-049SC-B-04-06-191015	18-Oct-19 08:59	WR-2 G-5	
1903737-04	<input checked="" type="checkbox"/>	PDI-049SC-B-06-08-191015	18-Oct-19 08:59	WR-2 G-5	
1903737-05	<input checked="" type="checkbox"/>	PDI-052SC-B-00-02-191015	18-Oct-19 08:59	WR-2 G-5	
1903737-06	<input checked="" type="checkbox"/>	PDI-052SC-B-02-04-191015	18-Oct-19 08:59	WR-2 G-5	
1903737-07	<input checked="" type="checkbox"/>	PDI-052SC-B-04-06-191015	18-Oct-19 08:59	WR-2 G-5	
1903737-08	<input checked="" type="checkbox"/>	PDI-052SC-B-06-08-191015	18-Oct-19 08:59	WR-2 G-5	
1903737-09	<input checked="" type="checkbox"/>	PDI-055SC-B-00-02-191015	18-Oct-19 08:59	WR-2 G-5	Container broken, transferred to new container. RR 01/31/20
1903737-10	<input checked="" type="checkbox"/>	PDI-055SC-B-02-04-191015	18-Oct-19 08:59	WR-2 G-5	
1903737-11	<input checked="" type="checkbox"/>	PDI-055SC-B-04-06-191015	18-Oct-19 08:59	WR-2 G-5	
1903737-12	<input checked="" type="checkbox"/>	PDI-055SC-B-06-08-191015	18-Oct-19 08:59	WR-2 G-5	

WO Comments: Pest - 1g extraction (dry weight)
Dioxin - 10g (dry weight)
PCB - 5g extraction (dry weight)

Pre-Prep Check Out: RR 01/31/20

Prep Check Out: RR 01/31/20

Prep Reconciled Initials/Date: RR 01/31/20

Pre-Prep Check In: RR 01/31/20
RR 01/31/20

Prep Check In: RR 01/31/20

Spike Reconciled Initials/Date: RR 01/31/20

VialBoxID: 6064

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9L0071

Analyst: JC Analyte: Dried at 110°C+/-5°C Oven ID: 01 02	Test Code: %Moist/%Solids Units: %	Data Entry Verified by: (Initial and Date) <i>JC 12/27/19</i>
---	---	---

Inst: HRMS-9 Date/Time IN: 12/23/19 1419 Date/Time OUT: 12/26/19 1415

Particle Size	SampID	SampType	Intial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			JC 12/23/19	RR 12/26/19										
	1903737-01	A	Sample	1.2900	6.7800	4.1600	2.8700	52.28	Mud	Na	Na	Na	Na	Y
	1903737-02	A	Sample	1.2800	7.0000	4.3500	3.0700	53.67	Mud	Na	Na	Na	Na	Y
	1903737-03	A	Sample	1.2700	7.3900	4.9700	3.7000	60.46	Mud	Na	Na	Na	Na	Y
	1903737-04	A	Sample	1.2800	6.2600	5.0500	3.7700	75.70	Sand	Na	Na	Na	Na	Y
	1903737-05	A	Sample	1.2800	5.7000	3.6100	2.3300	52.71	Mud	Na	Na	Na	Na	Y
	1903737-06	A	Sample	1.2800	6.7200	4.3700	3.0900	56.80	Mud	Na	Na	Na	Na	Y
	1903737-07	A	Sample	1.2700	5.8500	3.9800	2.7100	59.17	Mud	Na	Na	Na	Na	Y
	1903737-08	A	Sample	1.2700	6.4100	4.9800	3.7100	72.18	Sand	Na	Na	Na	Na	Y
	1903737-09	A	Sample	1.2700	7.8200	4.7800	3.5100	53.59	Mud	Na	Na	Na	Na	Y
	1903737-10	A	Sample	1.2900	6.4800	4.1900	2.9000	55.88	Mud	Na	Na	Na	Na	Y
	1903737-11	A	Sample	1.2900	6.6400	5.1900	3.9000	72.90	Sand	Na	Na	Na	Na	Y
	1903737-12	A	Sample	1.2800	7.7900	6.1900	4.9100	75.42	Sand	Na	Na	Na	Na	Y

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9L0071

Analyst: <u>RL</u>	Test Code: %Moist/%Solids	Data Entry Verified by: <u>NA</u>
Analyte:	Units: %	(Initial and Date)
Oven ID: 01 <u>02</u>	Dried at 110°C±1.5°C	

Inst HRMS-A Date/Time IN: 12/23/19 14:19 Date/Time OUT: 12/26/19 14:15

Particle Size	Sample ID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	12/23/19										
	<u>A</u>	Sample	<u>1.29</u>	<u>12/23/19</u>	<u>6.78</u>	<u>4.16</u>		<u>mud</u>					<u>Y</u>	
		Sample	<u>1.28</u>		<u>7.00</u>	<u>4.35</u>		<u>↓</u>						
		Sample	<u>1.27</u>		<u>7.39</u>	<u>4.97</u>		<u>↓</u>						
		Sample	<u>1.28</u>		<u>6.26</u>	<u>5.05</u>		<u>sand</u>						
		Sample	<u>1.28</u>		<u>5.70</u>	<u>3.61</u>		<u>mud</u>						
		Sample	<u>1.28</u>		<u>6.72</u>	<u>4.37</u>		<u>↓</u>						
		Sample	<u>1.27</u>		<u>5.85</u>	<u>3.98</u>		<u>↓</u>						
		Sample	<u>1.27</u>		<u>6.41</u>	<u>4.98</u>		<u>sand</u>						
		Sample	<u>1.27</u>		<u>7.82</u>	<u>4.78</u>		<u>mud</u>						
		Sample	<u>1.29</u>		<u>6.48</u>	<u>4.19</u>		<u>↓</u>						
		Sample	<u>1.29</u>		<u>6.64</u>	<u>5.19</u>		<u>sand</u>						
		Sample	<u>1.28</u>		<u>7.77</u>	<u>6.19</u>		<u>↓</u>						

*Sample homogenized in sample container unless otherwise noted.

PREPARATION BENCH SHEET

Matrix: Solid

B0A0229

Chemist: _____

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 30-Jan-20 12:37

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"/>	B0A0229-BLK1	NA	(10.00)	2A 01/21/20	10A2 02/03/20	NA	A2 02/03/20	A2 02/03/20	90 01/23/03/20	u 02/03/20
<input type="checkbox"/>	B0A0229-BS1	J	(10.00)							
<input type="checkbox"/>	1903737-01RE1	19.13	19.15							
<input type="checkbox"/>	1903737-02RE1	18.63	18.65				yellow/black			
<input type="checkbox"/>	1903737-03RE1	16.54	16.54				yellow			
<input type="checkbox"/>	1903737-04RE1	13.21	13.22				yellow			
<input type="checkbox"/>	1903737-05RE1	18.97	19.04				brown			
<input type="checkbox"/>	1903737-06RE1	17.61	17.69				yellow			
<input type="checkbox"/>	1903737-07RE1	16.90	16.92				orange			
<input type="checkbox"/>	1903737-08RE1	13.85	13.87				orange			
<input type="checkbox"/>	1903737-09RE1	18.66	18.70				yellow			
<input type="checkbox"/>	1903737-10RE1	17.90	17.93				orange			
<input type="checkbox"/>	1903737-11RE1	13.72	13.72				black			
<input type="checkbox"/>	1903737-12RE1	13.26	13.28				yellow			

RR Set-up Glassware 01/31/20
Set-up

IS Name <u>V7</u>	NS Name <u>V3</u>	CRS Name <u>V4</u>	RS Name <u>V4</u>	Cycle Time	APP: SEFUN SOX <u>(SDS)</u>	Check Out: Chemist/Date: <u>RR 01/31/20</u>
PCDD/F <u>19L2301, 10L</u>	PCDD/F <u>18F1913, 10L</u>	PCDD/F <u>19T1602, 10AL</u>	PCDD/F <u>19H603, 10AL</u>	Start Date/Time <u>01/31/20 1435</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 01/31/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>02/01/20 0809</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____		Final Volume(s) <u>C14</u> <u>20ML</u>	

Comments:

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

Batch: B0A0229

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903737-01RE1	19.15 /	52.27686	10.0110	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-02RE1	18.65 /	53.67133	10.0097	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-03RE1	16.54 /	60.45752	9.9997	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-04RE1	13.22 /	75.70281	10.0079	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-05RE1	19.04 /	52.71493	10.0369	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-06RE1	17.69 /	56.80147	10.0482	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-07RE1	16.92 /	59.17031	10.0116	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-08RE1	13.87 /	72.17899	10.0112	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-09RE1	18.7 /	53.58779	10.0209	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-10RE1	17.93 /	55.87669	10.0187	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-11RE1	13.72 /	72.8972	10.0015	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
1903737-12RE1	13.28 /	75.42243	10.0161	20	30-Jan-20 12:37	ACO			Sediment	1613 Full List
B0A0229-BLK1	10			20	30-Jan-20 12:37	ACO				QC
B0A0229-BS1	10			20	30-Jan-20 12:37	ACO	18F1913 /	10 /		QC

All bolded data on report verified against written benchsheet by (initial/date) 02/04/20 JL

Printed: 2/4/2020 2:27:30PM
Page 1 of 1

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-4.qld

Last Altered: Thursday, March 05, 2020 08:55:52 Pacific Standard Time

Printed: Thursday, March 05, 2020 08:56:59 Pacific Standard Time

GRB 03/05/2020

CT 03/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.988	10.000	25.751		1.001				0.0400	
2	2 1,2,3,7,8-PeCDD			NO	0.972	10.000	30.842		1.001				0.0387	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.000	34.210		1.000				0.0514	
4	4 1,2,3,6,7,8-HxCDD			NO	0.921	10.000	34.307		1.000				0.0512	
5	5 1,2,3,7,8,9-HxCDD			NO	0.918	10.000	34.608		1.001				0.0635	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.923	10.000	38.088		1.000				0.106	
7	7 OCDD	1.34e3	0.77	NO	0.975	10.000	41.198	41.22	1.000	1.001	0.28746		0.105	0.287
8	8 2,3,7,8-TCDF			NO	0.802	10.000	24.802		1.001				0.0303	
9	9 1,2,3,7,8-PeCDF			NO	0.907	10.000	29.528		1.001				0.0318	
10	10 2,3,4,7,8-PeCDF			NO	0.952	10.000	30.545		1.001				0.0296	
11	11 1,2,3,4,7,8-HxCDF			NO	0.862	10.000	33.348		1.000				0.0420	
12	12 1,2,3,6,7,8-HxCDF			NO	0.841	10.000	33.475		1.000				0.0410	
13	13 2,3,4,6,7,8-HxCDF			NO	0.898	10.000	34.064		1.001				0.0445	
14	14 1,2,3,7,8,9-HxCDF	5.68e2	1.35	NO	0.858	10.000	34.924	34.92	1.000	1.000	0.085176		0.0647	0.0852
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.851	10.000	36.698		1.001				0.0645	
16	16 1,2,3,4,7,8,9-HpCDF			NO	0.980	10.000	38.727		1.000				0.0864	
17	17 OCDF			NO	0.806	10.000	41.379		1.000				0.0874	
18	18 13C-2,3,7,8-TCDD	2.41e6	0.78	NO	1.20	10.000	25.691	25.72	1.026	1.027	192.93	96.5	0.170	
19	19 13C-1,2,3,7,8-PeCDD	1.88e6	0.63	NO	0.967	10.000	30.820	30.82	1.230	1.230	186.46	93.2	0.221	
20	20 13C-1,2,3,4,7,8-HxCDD	1.30e6	1.26	NO	0.874	10.000	34.204	34.20	1.014	1.014	165.09	82.5	0.370	
21	21 13C-1,2,3,6,7,8-HxCDD	1.72e6	1.27	NO	1.05	10.000	34.305	34.31	1.017	1.017	183.13	91.6	0.309	
22	22 13C-1,2,3,7,8,9-HxCDD	1.50e6	1.22	NO	0.974	10.000	34.609	34.57	1.026	1.025	171.42	85.7	0.332	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.21e6	1.05	NO	0.747	10.000	38.185	38.08	1.132	1.129	180.15	90.1	0.514	
24	24 13C-OCDD	1.91e6	0.88	NO	0.707	10.000	41.086	41.20	1.218	1.221	300.72	75.2	0.478	
25	25 13C-2,3,7,8-TCDF	3.04e6	0.77	NO	1.07	10.000	24.872	24.78	0.993	0.989	196.36	98.2	0.263	
26	26 13C-1,2,3,7,8-PeCDF	2.62e6	1.63	NO	1.00	10.000	29.455	29.51	1.176	1.178	179.55	89.8	0.399	
27	27 13C-2,3,4,7,8-PeCDF	2.54e6	1.59	NO	0.962	10.000	30.425	30.51	1.215	1.218	181.47	90.7	0.415	
28	28 13C-1,2,3,4,7,8-HxCDF	1.68e6	0.51	NO	1.05	10.000	33.327	33.35	0.988	0.989	178.35	89.2	0.468	
29	29 13C-1,2,3,6,7,8-HxCDF	2.04e6	0.52	NO	1.19	10.000	33.428	33.47	0.991	0.992	190.75	95.4	0.413	
30	30 13C-2,3,4,6,7,8-HxCDF	1.74e6	0.51	NO	1.07	10.000	34.039	34.03	1.009	1.009	181.47	90.7	0.461	
31	31 13C-1,2,3,7,8,9-HxCDF	1.55e6	0.50	NO	0.922	10.000	34.946	34.92	1.036	1.035	187.51	93.8	0.532	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-4.qld

Last Altered: Thursday, March 05, 2020 08:55:52 Pacific Standard Time

Printed: Thursday, March 05, 2020 08:56:59 Pacific Standard Time

Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.32e6	0.45	NO	0.767	10.000	36.700	36.66	1.088	1.087	191.79	95.9	0.497	
33	33 13C-1,2,3,4,7,8,9-HpCDF	9.33e5	0.44	NO	0.552	10.000	38.724	38.73	1.148	1.148	187.91	94.0	0.690	
34	34 13C-OCDF	2.29e6	0.89	NO	0.789	10.000	41.322	41.38	1.225	1.227	322.61	80.7	0.455	
35	35 37Cl-2,3,7,8-TCDD	8.98e5			1.18	10.000	25.723	25.74	1.027	1.027	73.134	91.4	0.0557	
36	36 13C-1,2,3,4-TCDD	2.09e6	0.79	NO	1.00	10.000	25.110	25.05	1.000	1.000	200.00 *	100	0.204	
37	37 13C-1,2,3,4-TCDF	2.91e6	0.79	NO	1.00	10.000	23.370	23.27	1.000	1.000	200.00	100	0.280	
38	38 13C-1,2,3,4,6,9-HxCDF	1.80e6	0.52	NO	1.00	10.000	33.710	33.73	1.000	1.000	200.00	100	0.491	
39	39 Total Tetra-Dioxins				0.988	10.000	24.620		0.000				0.0240	
40	40 Total Penta-Dioxins				0.972	10.000	29.960		0.000				0.0157	
41	41 Total Hexa-Dioxins				0.921	10.000	33.635		0.000				0.0301	
42	42 Total Hepta-Dioxins				0.923	10.000	37.640		0.000				0.0557	
43	43 Total Tetra-Furans				0.802	10.000	23.610		0.000				0.0132	
44	44 1st Func. Penta-Furans				0.907	10.000	27.090		0.000				0.0117	
45	45 Total Penta-Furans				0.907	10.000	29.275		0.000				0.0157	
46	46 Total Hexa-Furans				0.898	10.000	33.555		0.000		0.085176		0.0456	0.105
47	47 Total Hepta-Furans				0.851	10.000	37.835		0.000				0.0396	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-4.qld

Last Altered: Thursday, March 05, 2020 08:55:52 Pacific Standard Time

Printed: Thursday, March 05, 2020 08:56:59 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-4.qld

Last Altered: Thursday, March 05, 2020 08:55:52 Pacific Standard Time

Printed: Thursday, March 05, 2020 08:56:59 Pacific Standard Time

Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	34.92	6.174e3	5.237e3	3.261e2	2.417e2	1.35	NO	5.679e2	0.085176	0.085176	0.0647
2	Total Hexa-Furans	34.98	4.225e3	2.123e3	1.812e2	6.842e1	2.65	YES	0.000e0	0.00000	0.019459	0.0456

Hepta-Furans

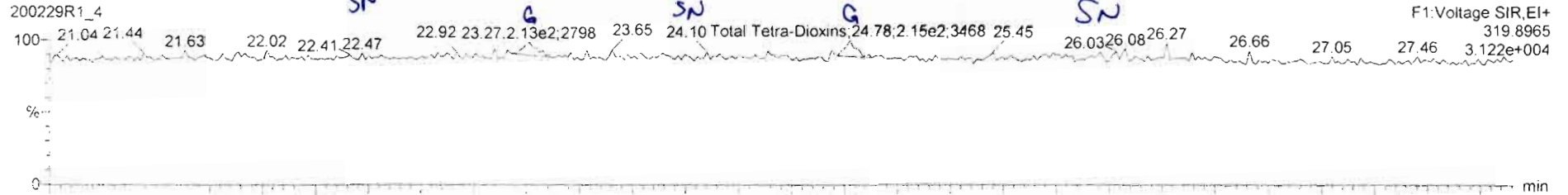
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Dataset: Untitled

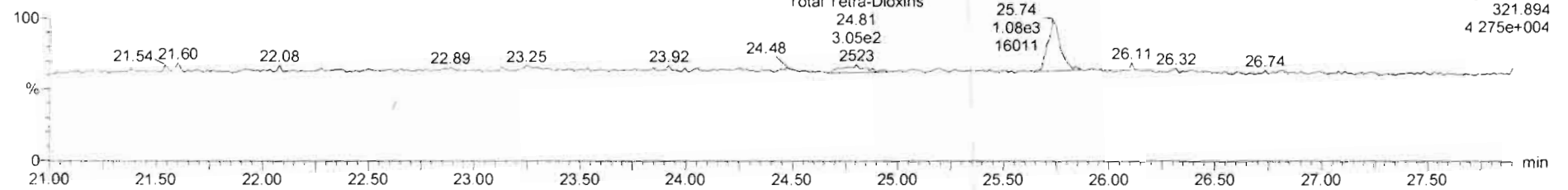
Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

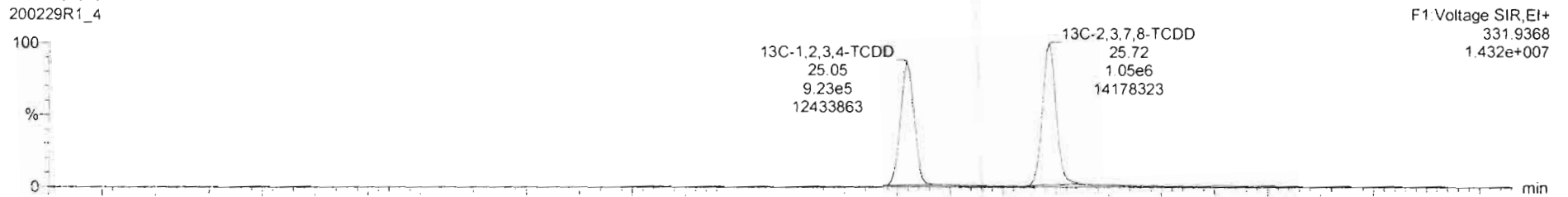
2,3,7,8-TCDD



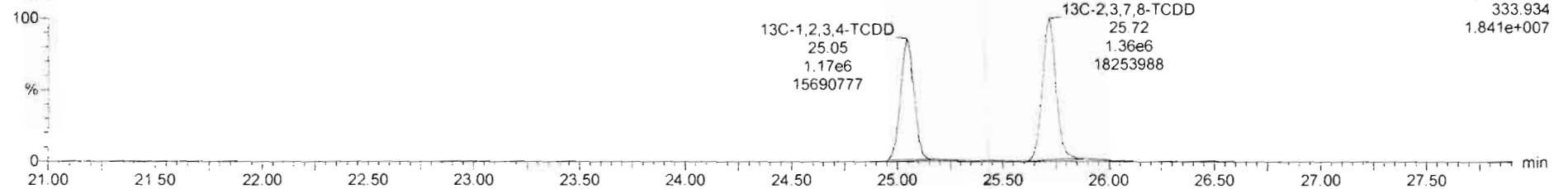
200229R1_4

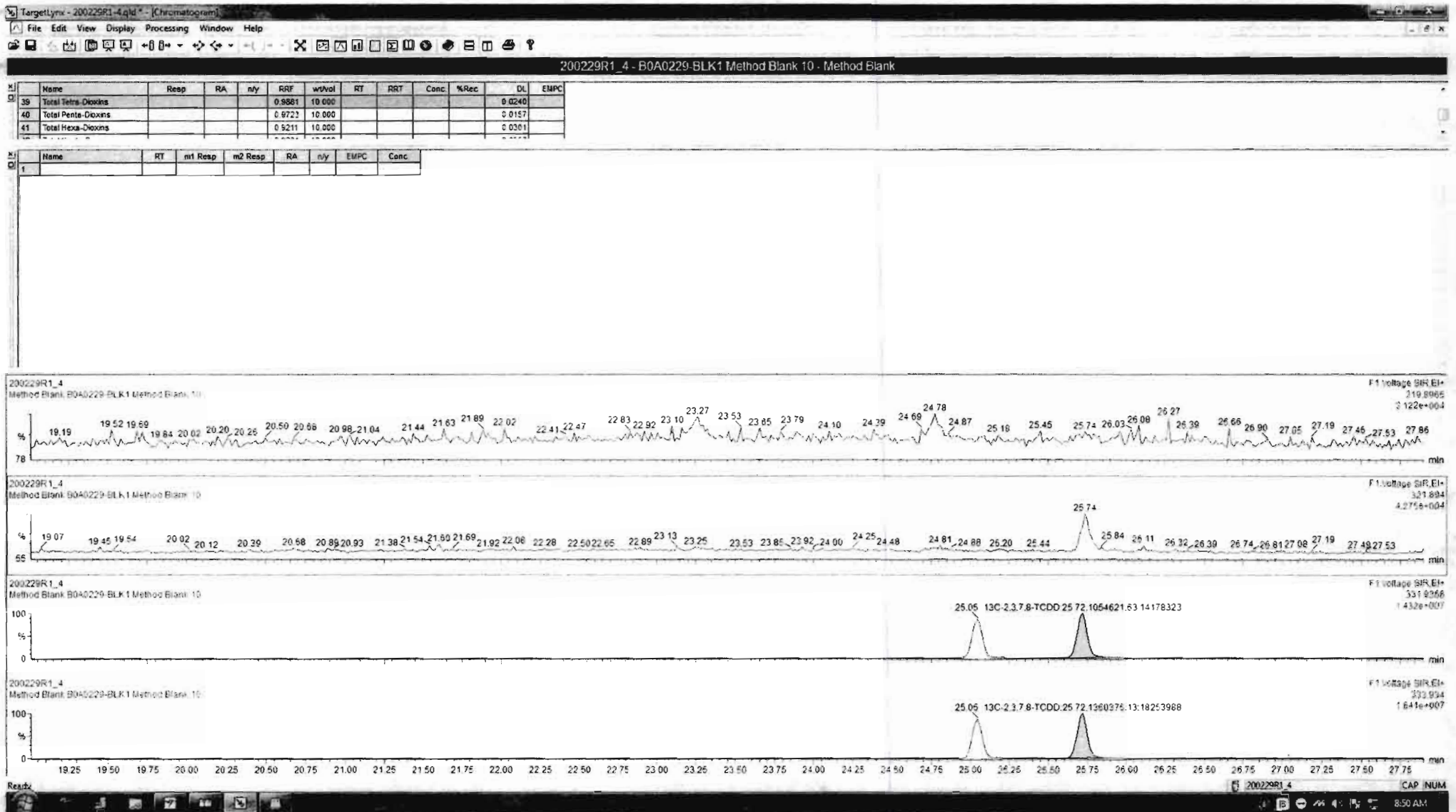


13C-2,3,7,8-TCDD



200229R1_4





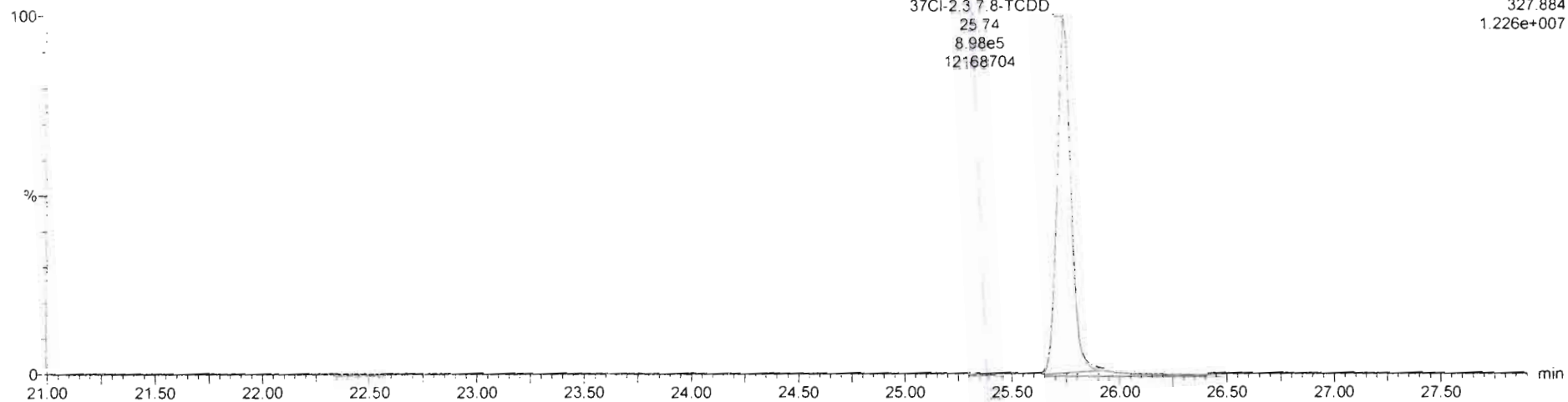
Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

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

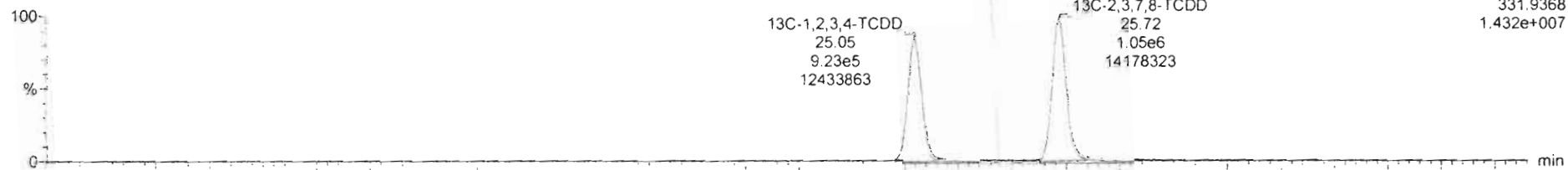
200229R1_4



F1:Voltage SIR.EI+
327.884
1.226e+007

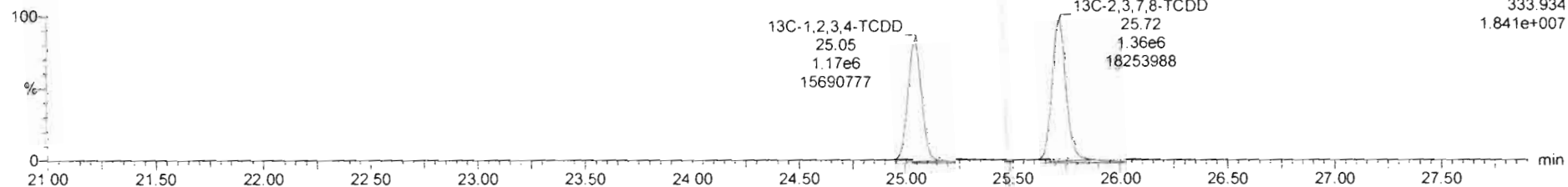
13C-1,2,3,4-TCDD

200229R1_4



F1:Voltage SIR.EI+
331.9368
1.432e+007

200229R1_4



F1:Voltage SIR.EI+
333.934
1.841e+007

Dataset: Untitled

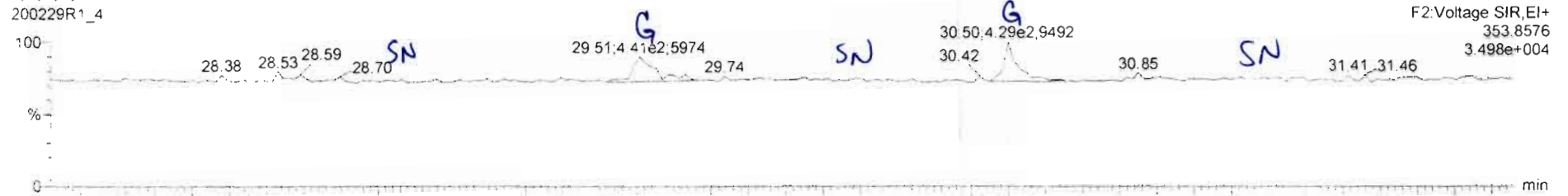
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

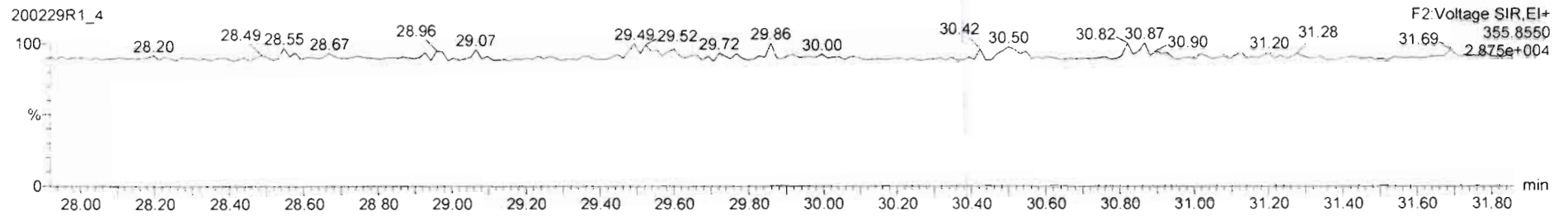
Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200229R1_4

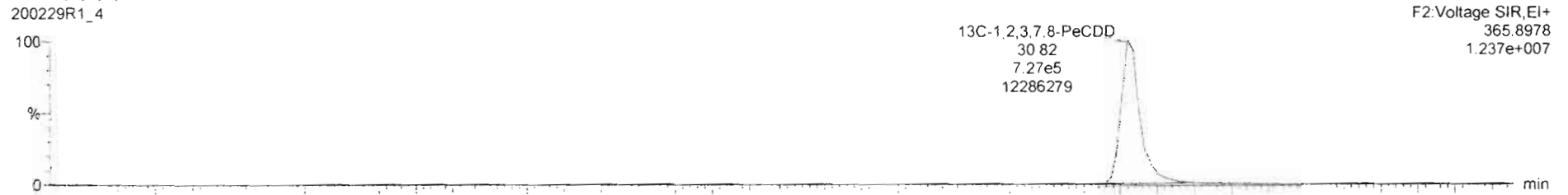


200229R1_4

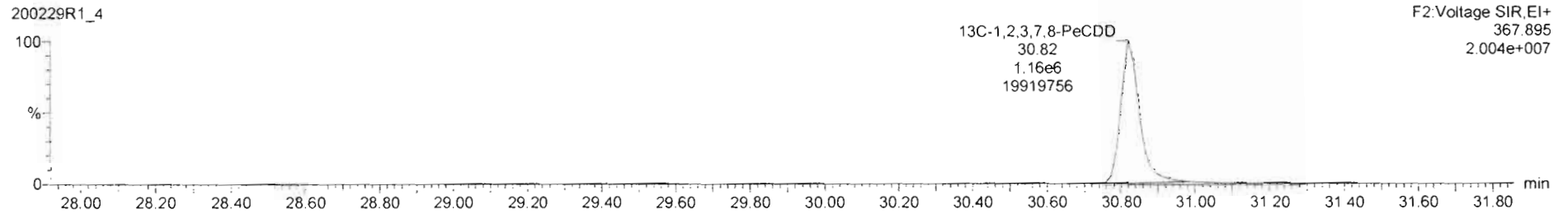


13C-1,2,3,7,8-PeCDD

200229R1_4

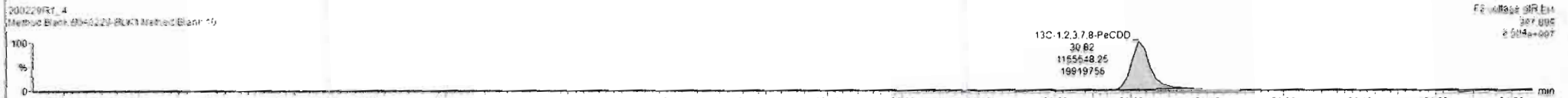
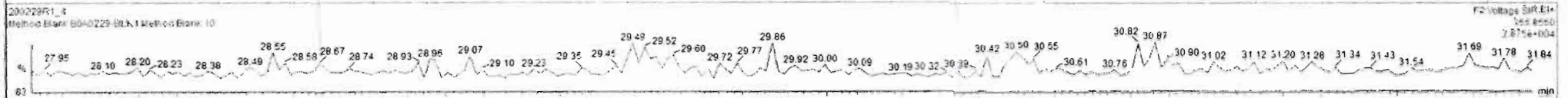
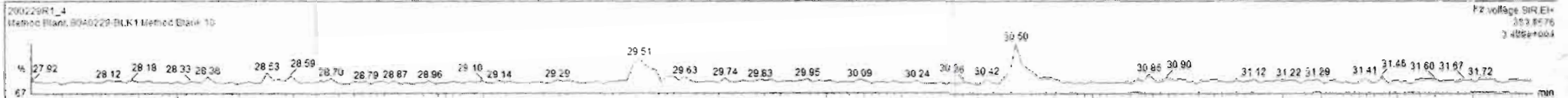


200229R1_4



#	Name	Resp	RA	n/y	RRF	wTvol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.5861	10.000					0.0240	
40	Total Penta-Dioxins				0.9723	10.000					0.0157	
41	Total Hexa-Dioxins				0.5211	10.000					0.0301	

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



Dataset: Untitled

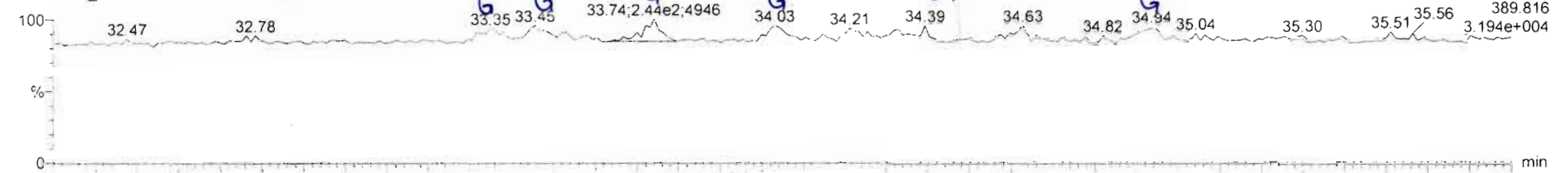
Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

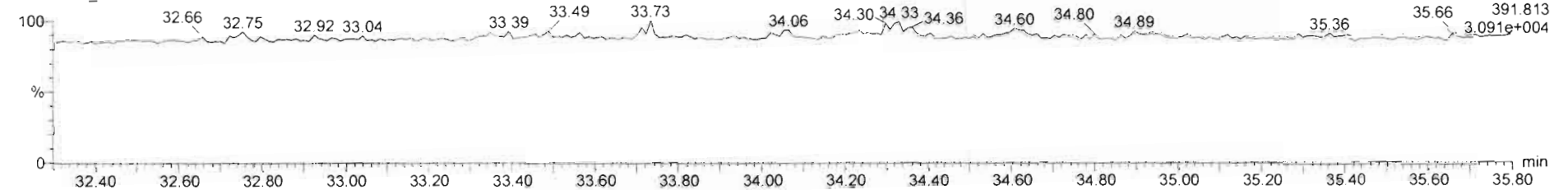
1,2,3,4,7,8-HxCDD

200229R1_4



F3: Voltage SIR, EI+
389.816
3.194e+004

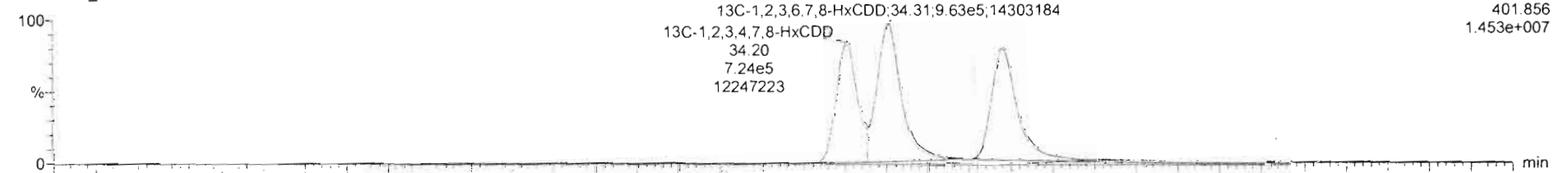
200229R1_4



F3: Voltage SIR, EI+
391.813
3.091e+004

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

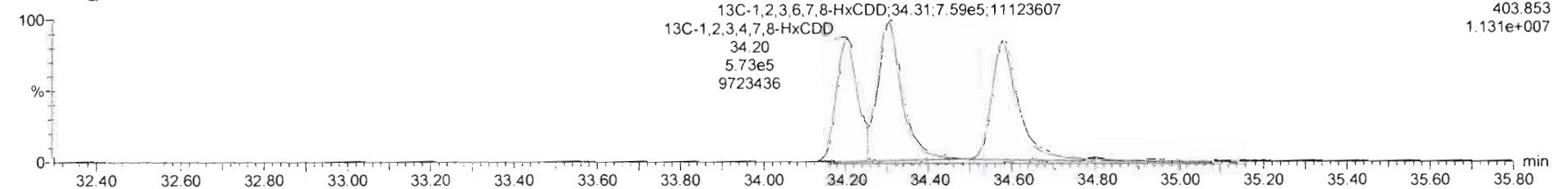
200229R1_4



13C-1,2,3,6,7,8-HxCDD; 34.31; 9.63e5; 14303184
13C-1,2,3,4,7,8-HxCDD
34.20
7.24e5
12247223

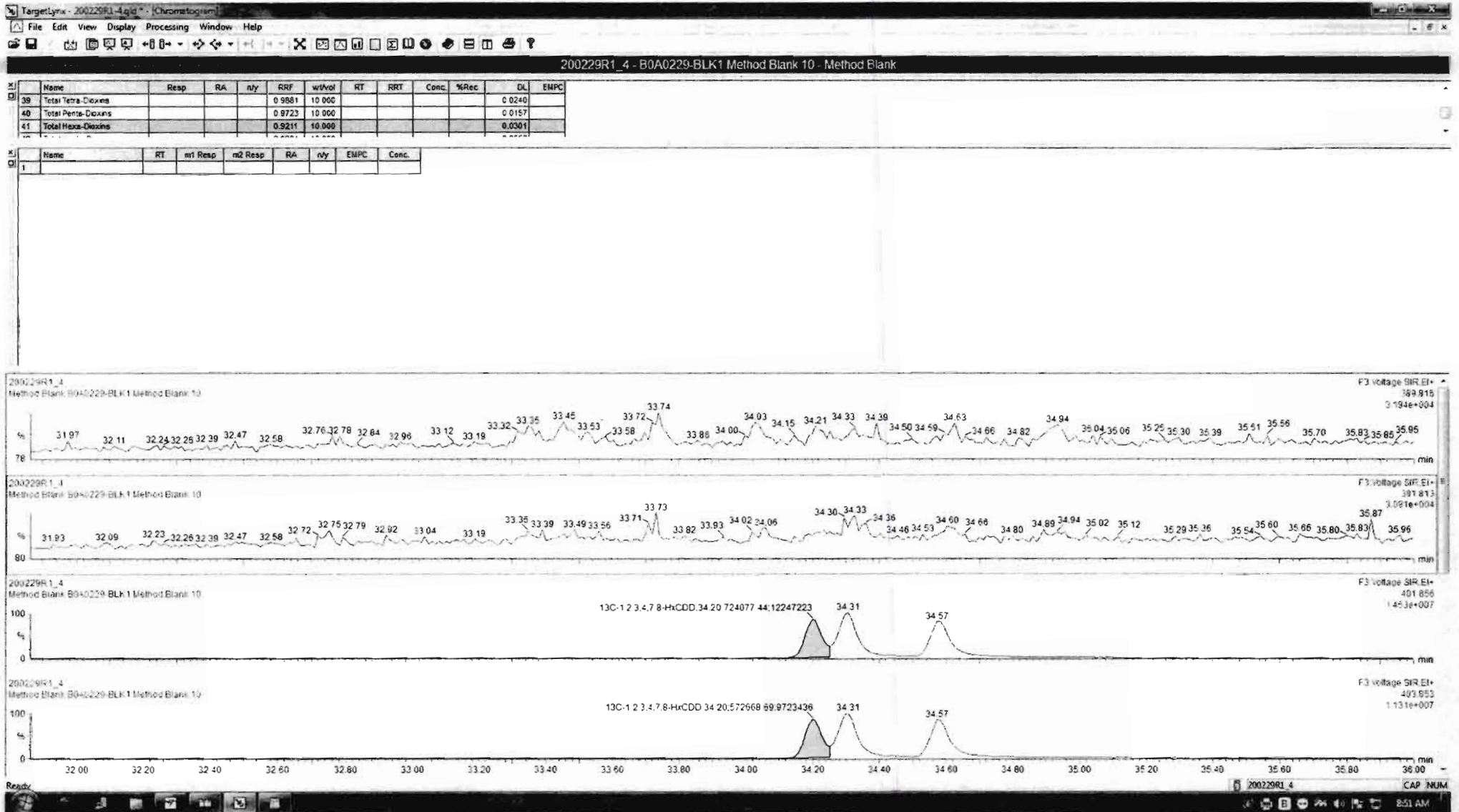
F3: Voltage SIR, EI+
401.856
1.453e+007

200229R1_4



13C-1,2,3,6,7,8-HxCDD; 34.31; 7.59e5; 11123607
13C-1,2,3,4,7,8-HxCDD
34.20
5.73e5
9723436

F3: Voltage SIR, EI+
403.853
1.131e+007



Dataset: Untitled

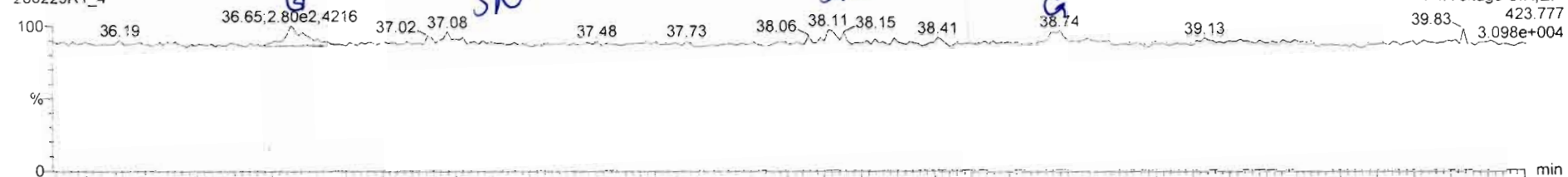
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

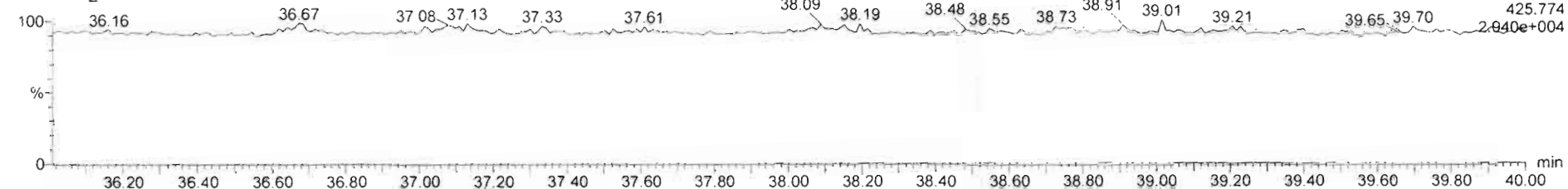
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1,2,3,4,6,7,8-HpCDD

200229R1_4

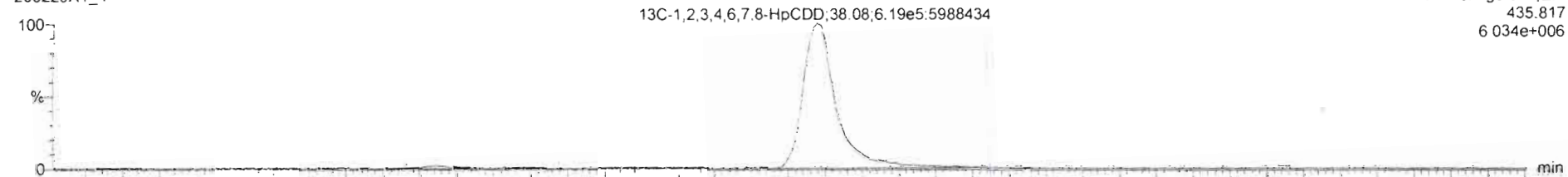


200229R1_4

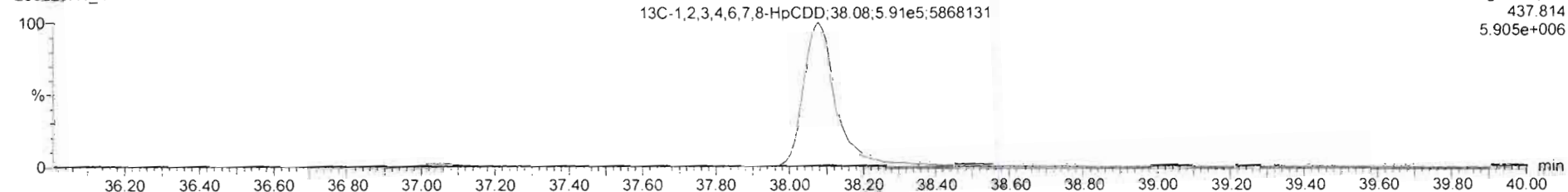


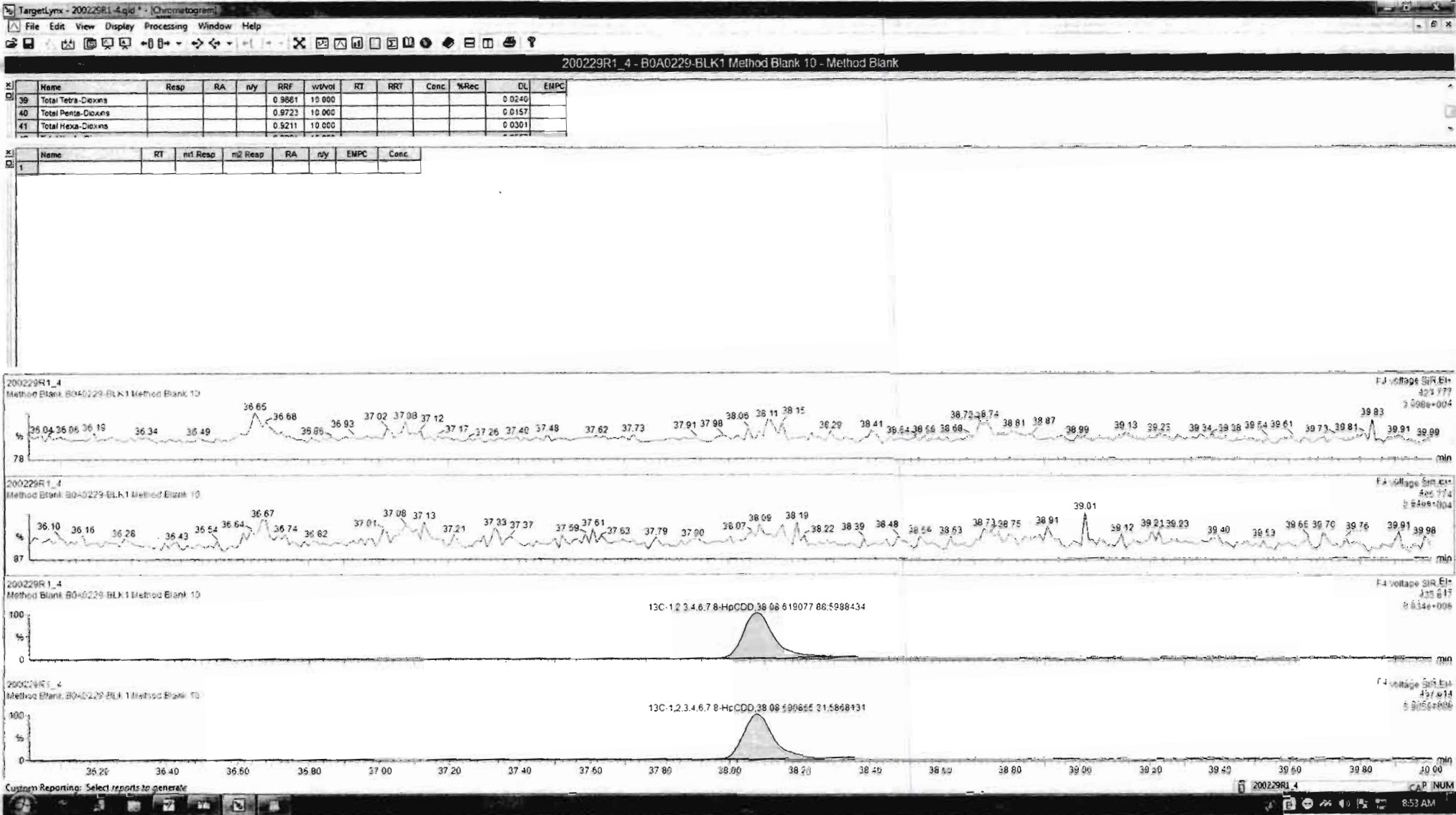
13C-1,2,3,4,6,7,8-HpCDD

200229R1_4



200229R1_4





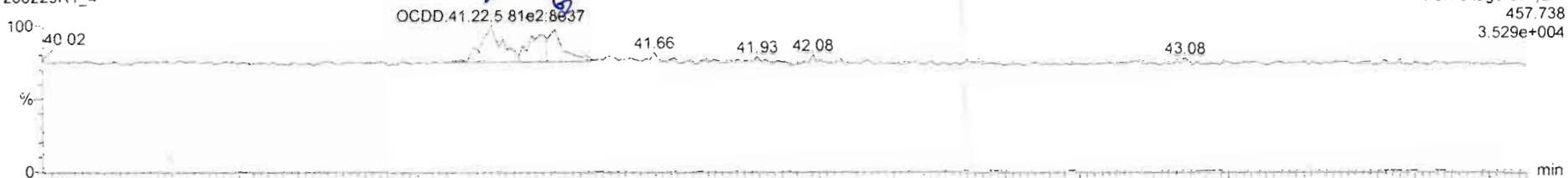
Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

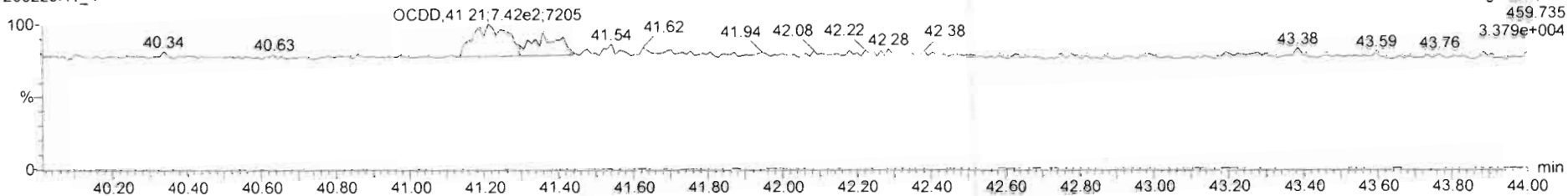
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OCDD

200229R1_4



200229R1_4

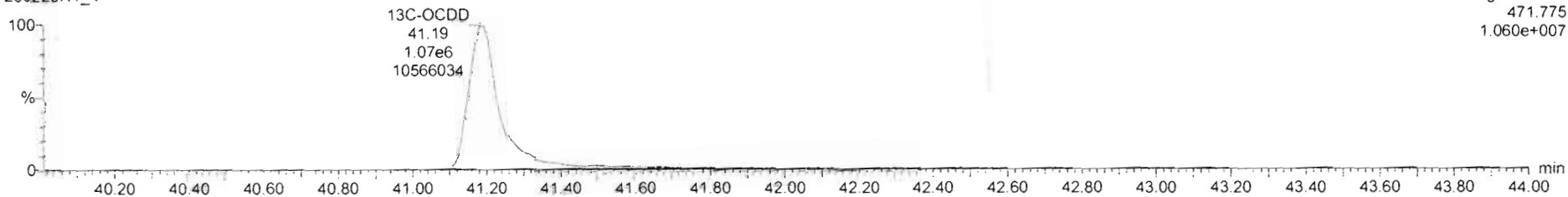


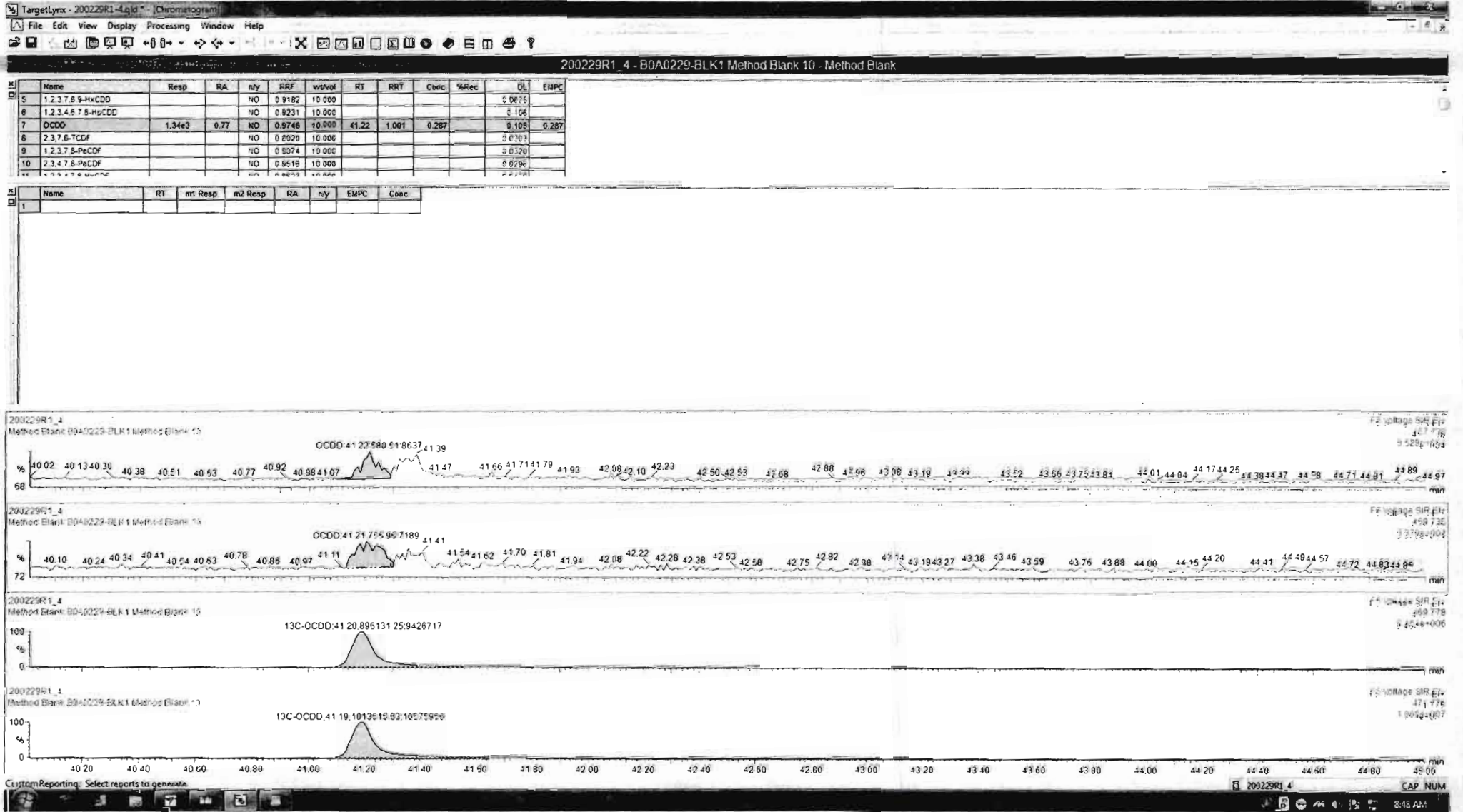
13C-OCDD

200229R1_4



200229R1_4





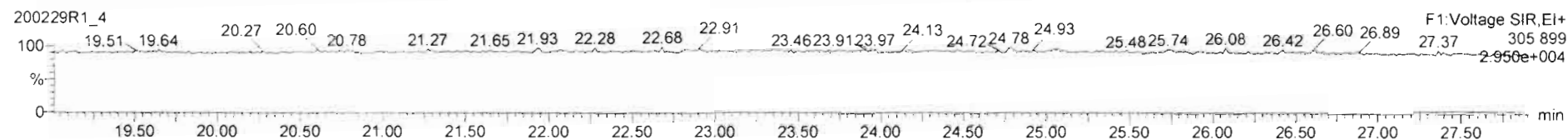
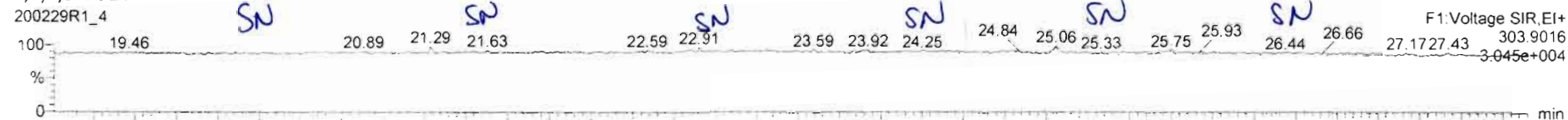
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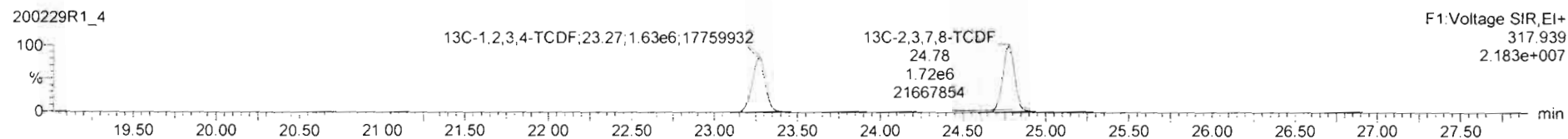
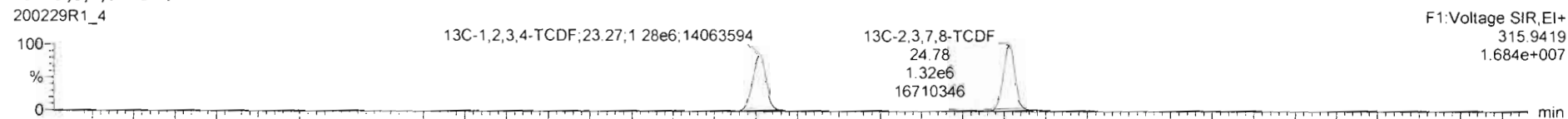
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Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

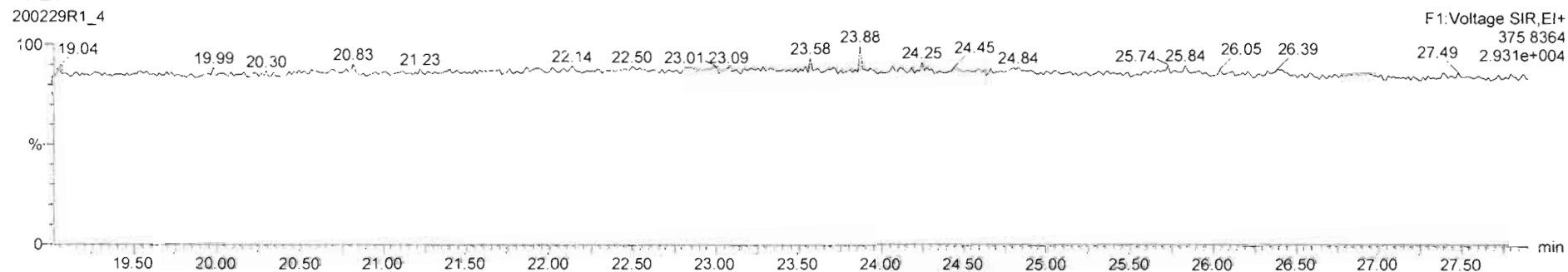
2,3,7,8-TCDF

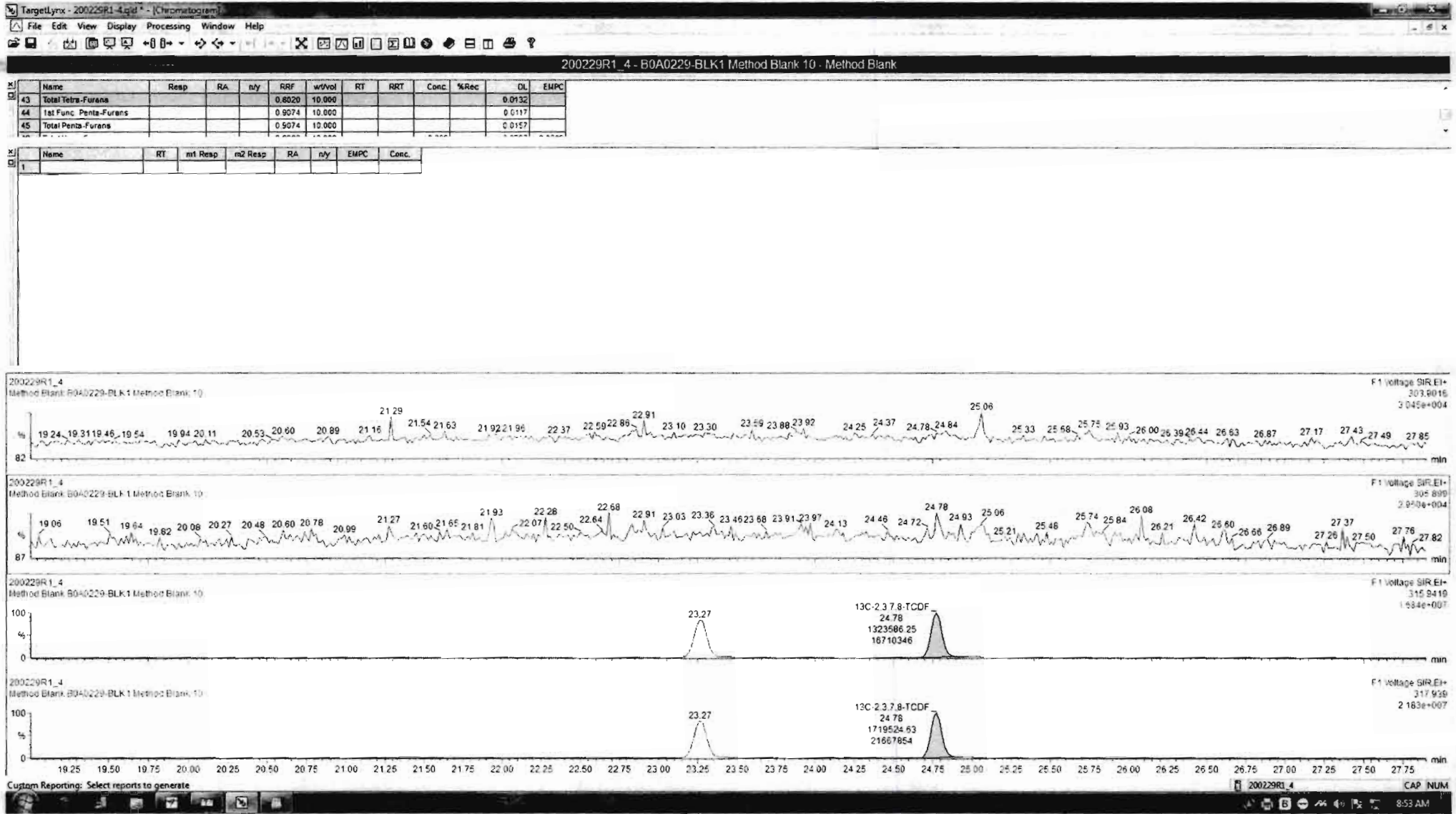


13C-2,3,7,8-TCDF



DPE1





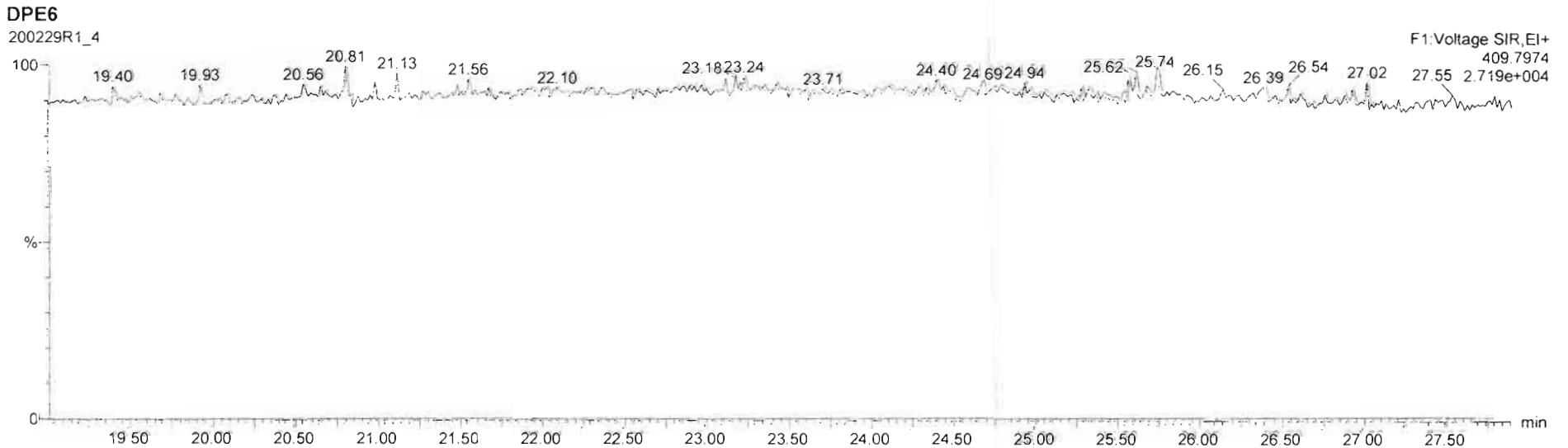
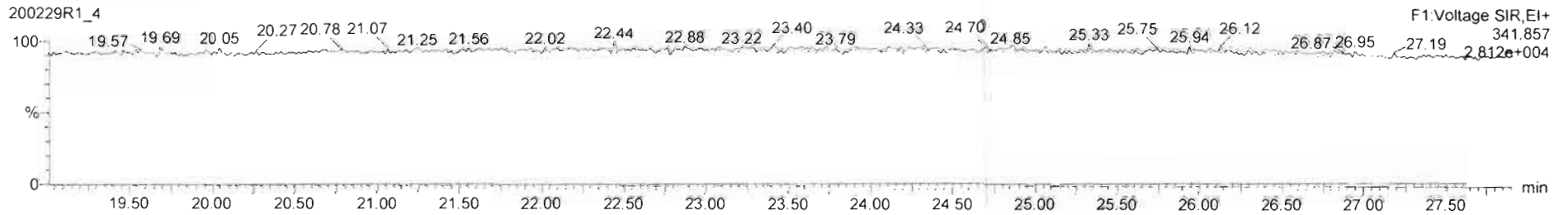
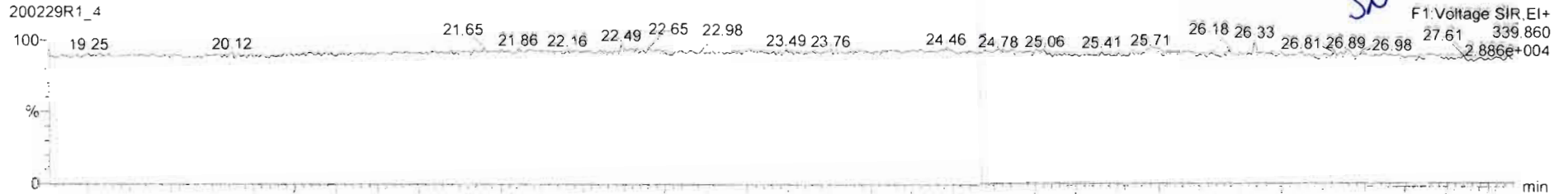
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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans



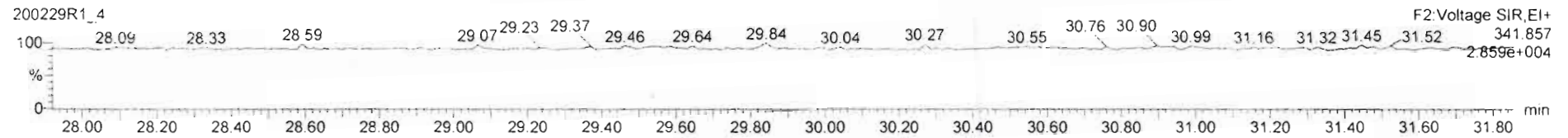
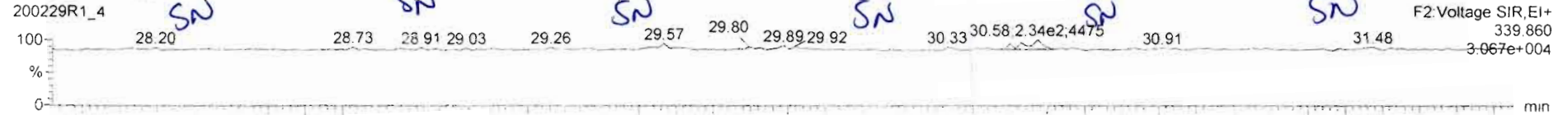
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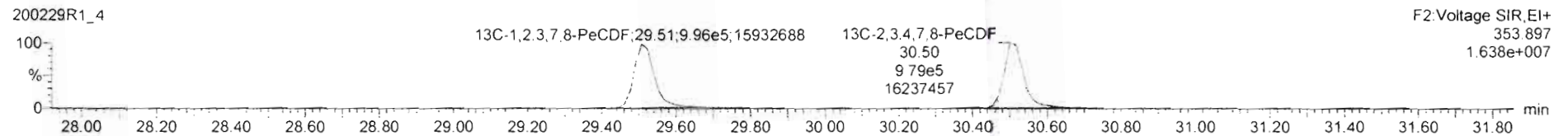
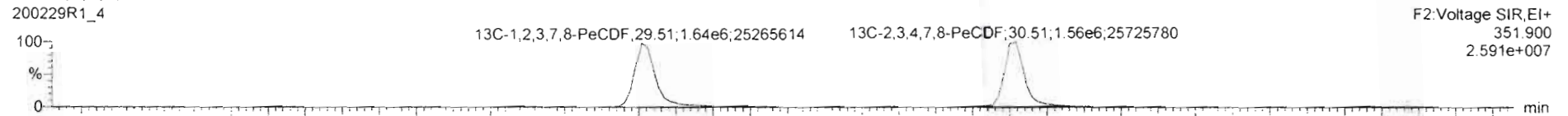
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Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

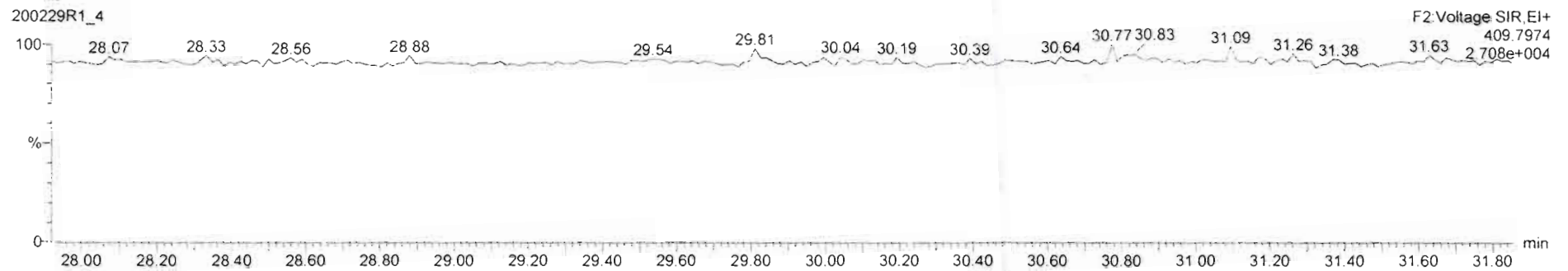
1,2,3,7,8-PeCDF

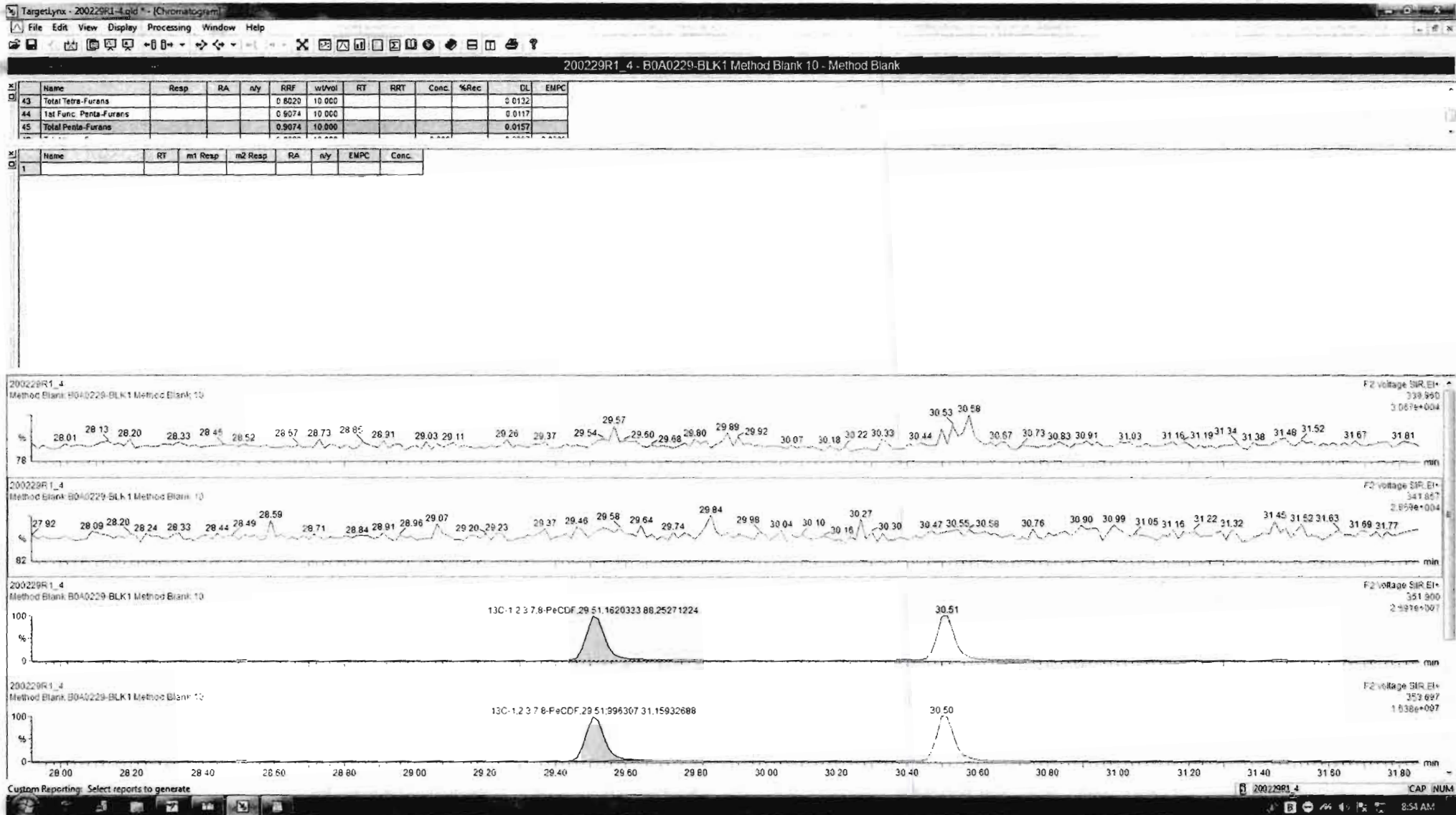


13C-1,2,3,7,8-PeCDF



DPE2





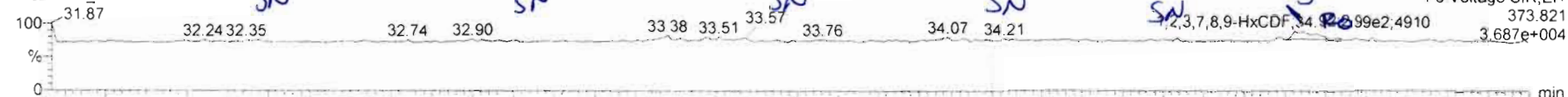
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

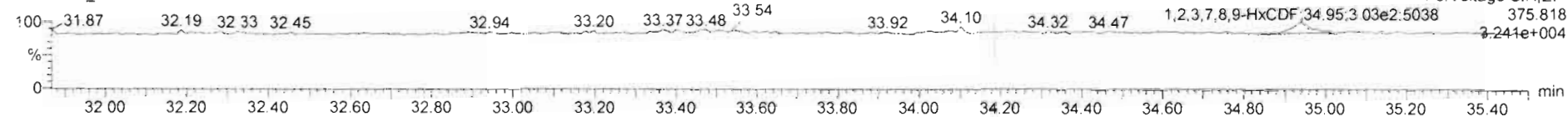
Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

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

200229R1_4

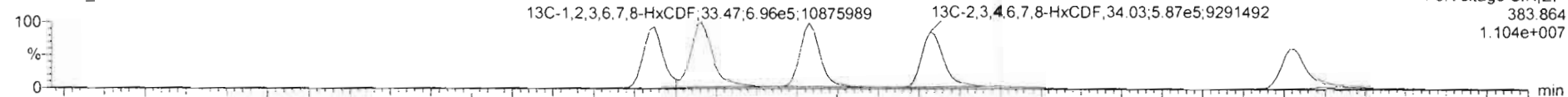


200229R1_4

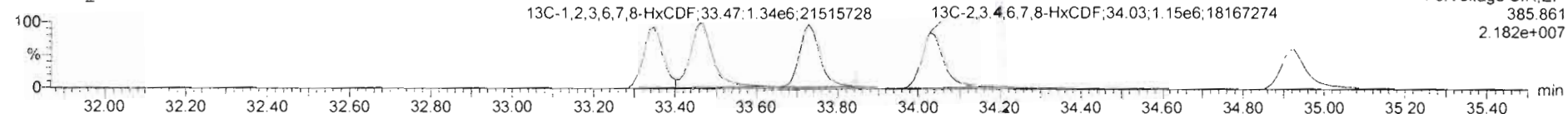


13C-1,2,3,4,7,8-HxCDF

200229R1_4

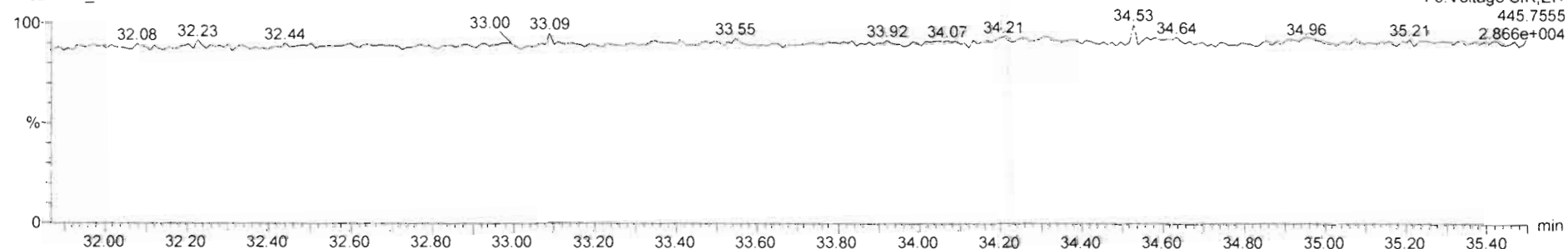


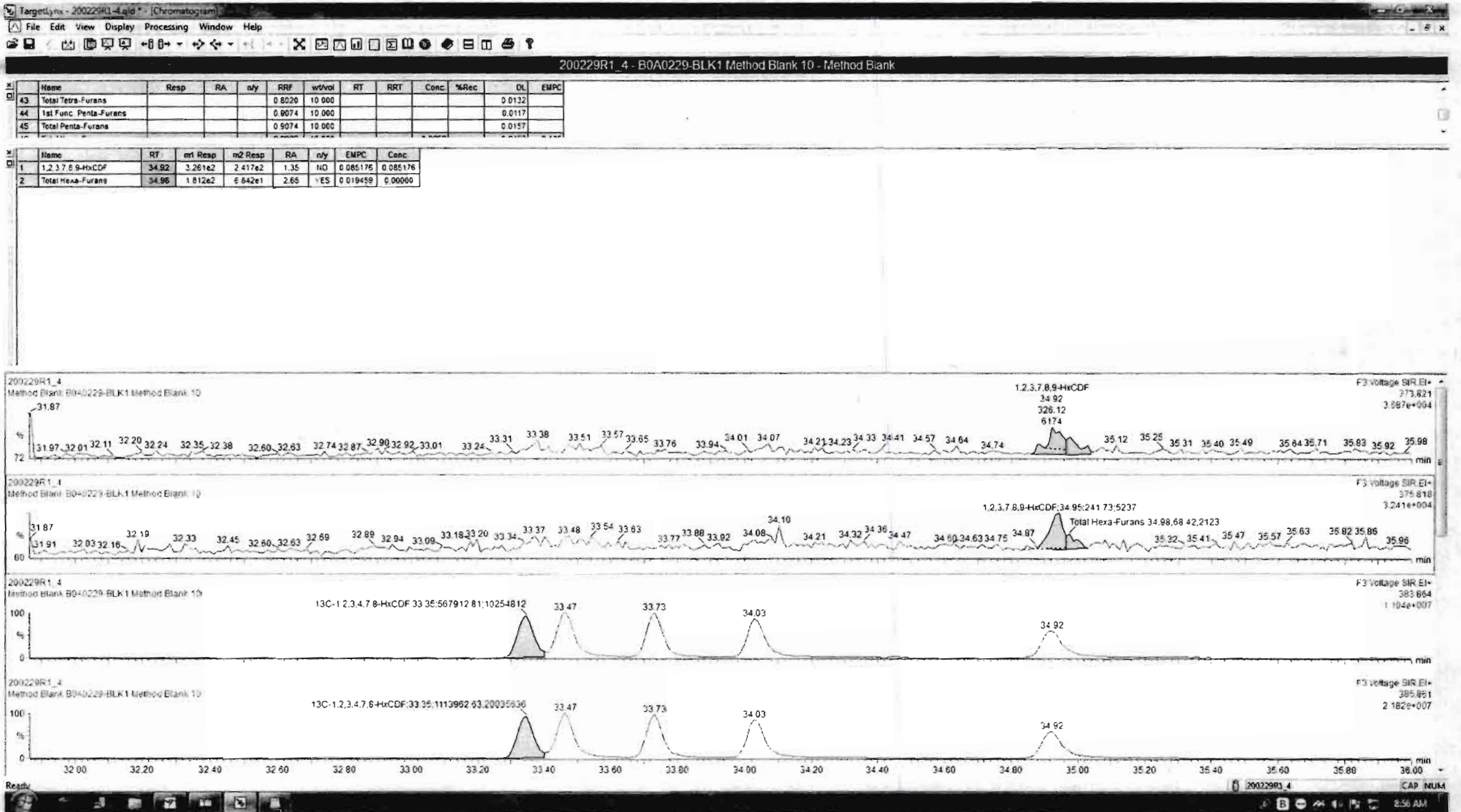
200229R1_4



DPE3

200229R1_4



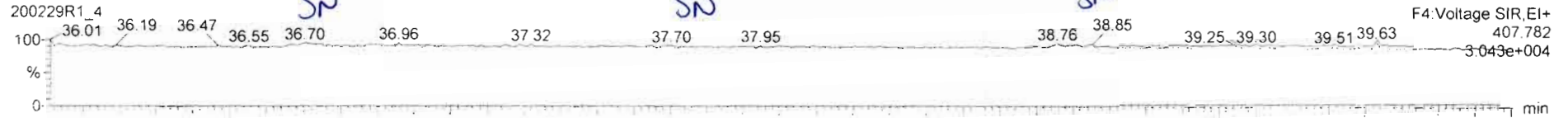


Dataset: Untitled

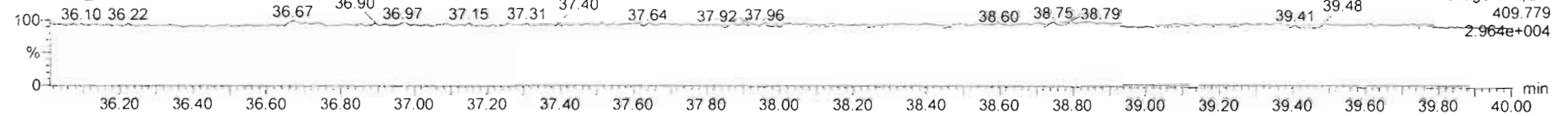
Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

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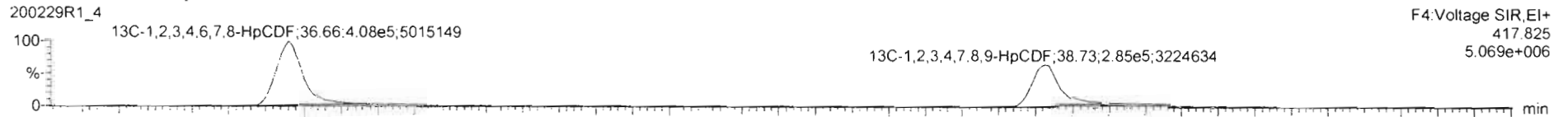
1,2,3,4,6,7,8-HpCDF



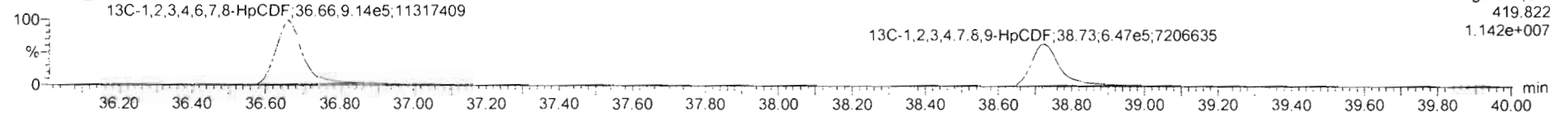
200229R1_4



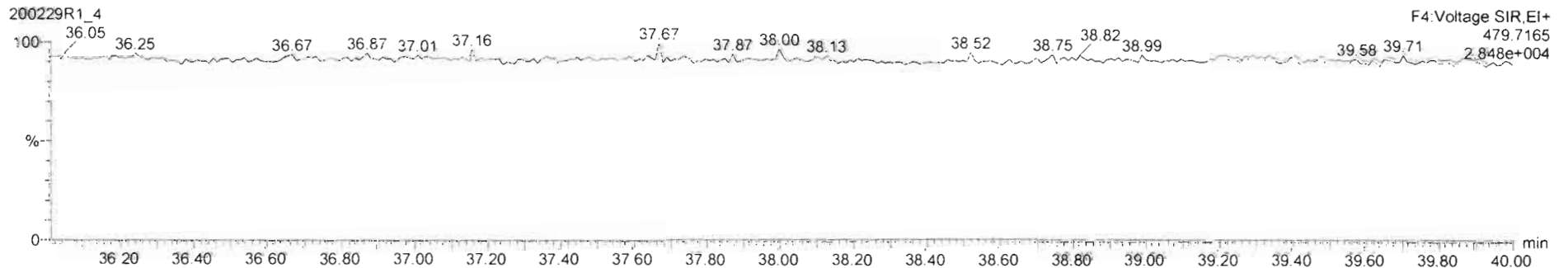
13C-1,2,3,4,6,7,8-HpCDF

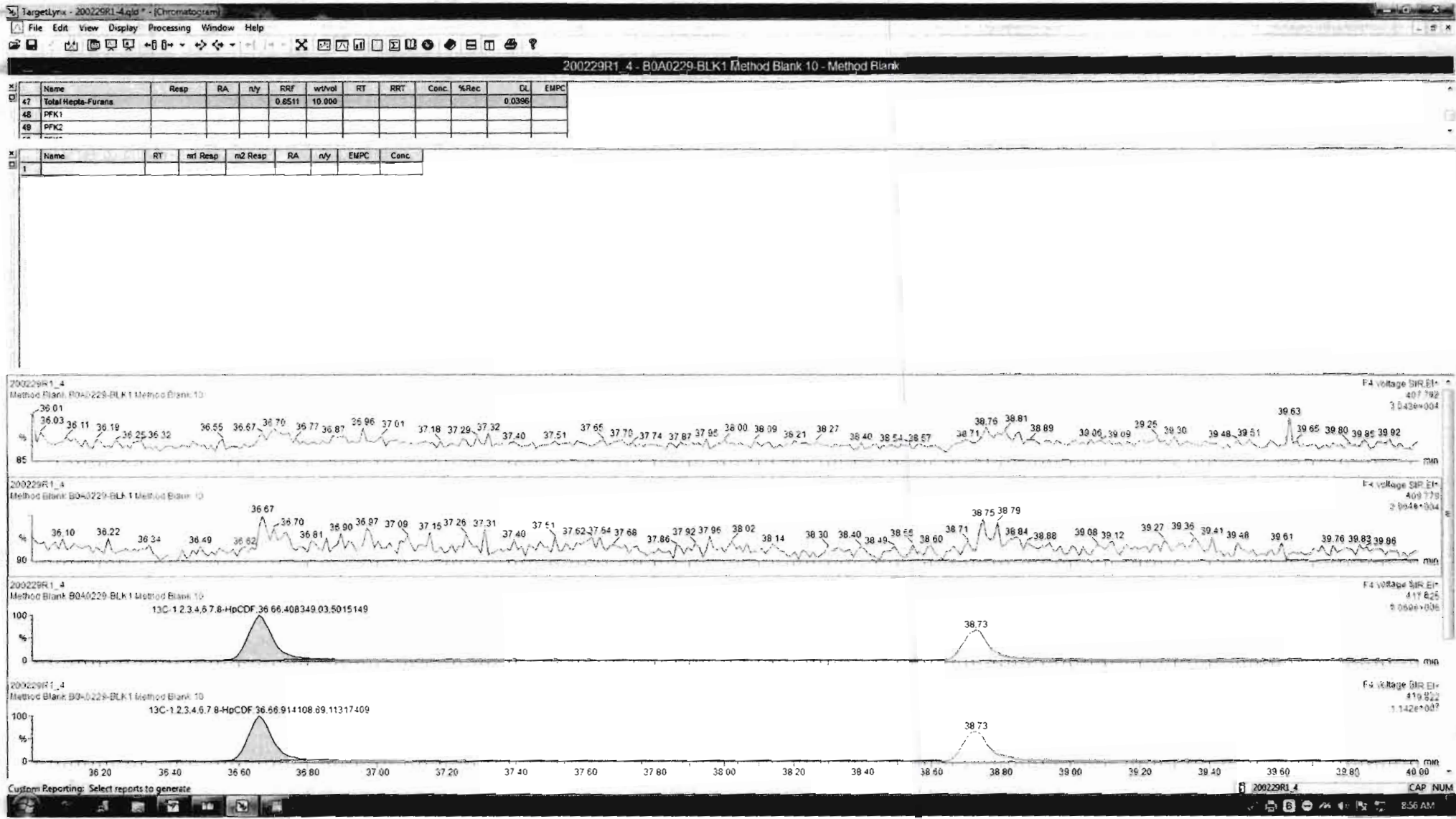


200229R1_4



DPE4



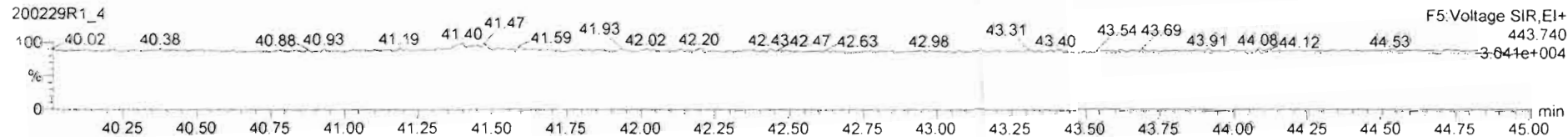
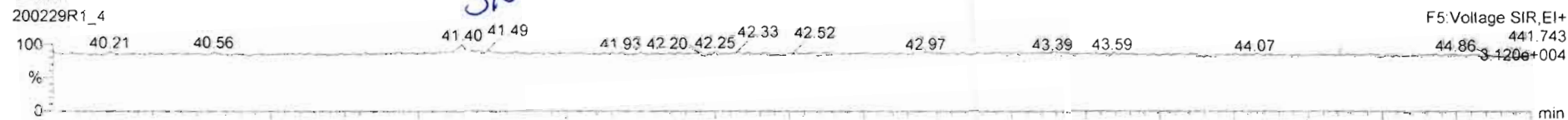


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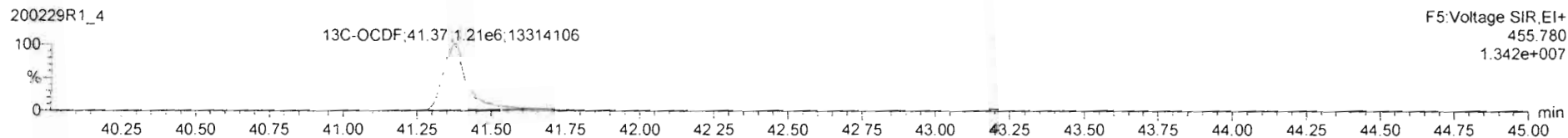
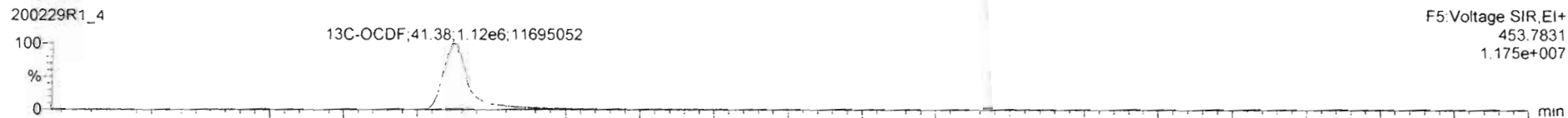
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

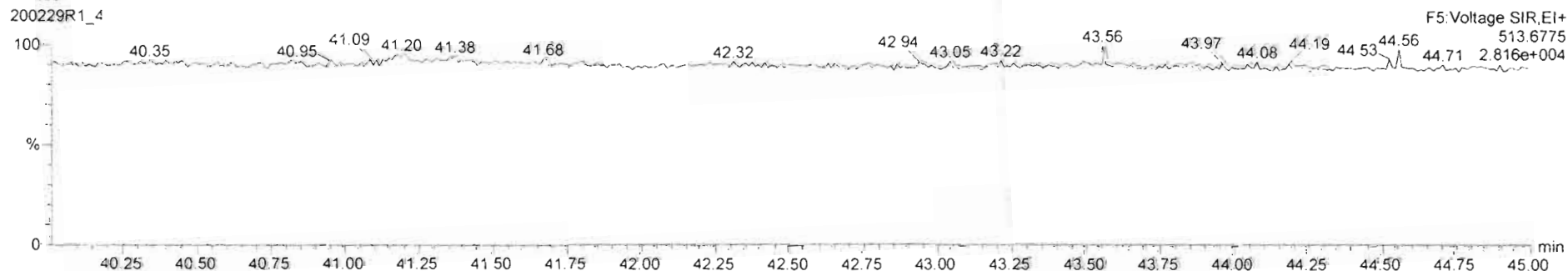
OCDF



13C-OCDF

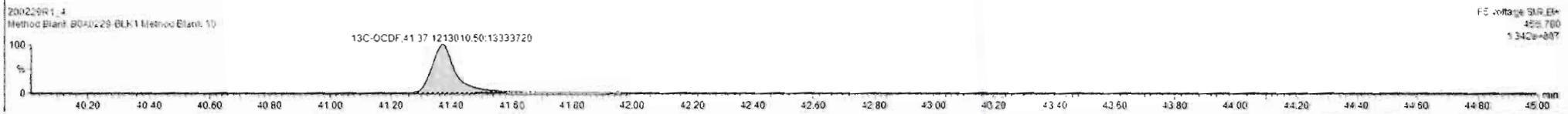
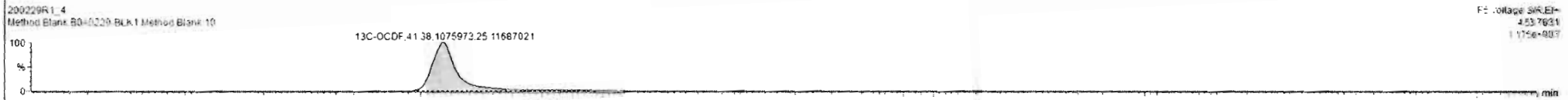
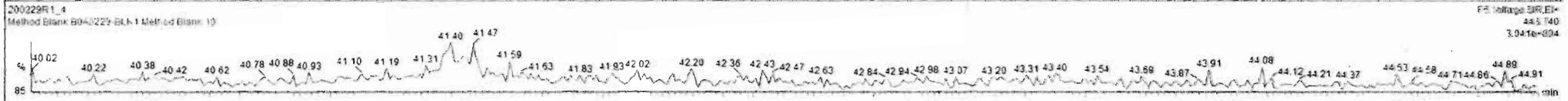
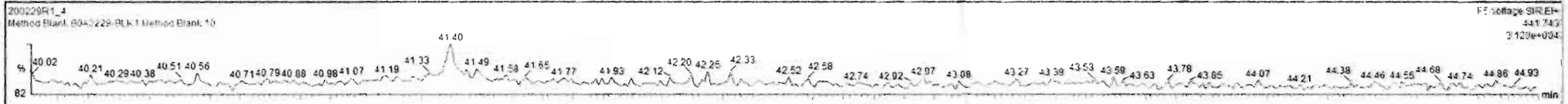


DPE5



200229R1_4 - B0A0229-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	0.9861	10.000					0.0400	
2 1,2,3,7,8-PeCDD			NO	0.9723	10.000					0.0387	
3 1,2,3,4,7,8-HxCDD			NO	1.0708	10.000					0.0514	
4 1,2,3,7,8-HxCDD			NO	0.9211	10.000					0.0512	
5 1,2,3,7,8,9-HxCDD			NO	0.9182	10.000					0.0635	
6 1,2,3,4,6,7,8-HxCDD			NO	0.9231	10.000					0.106	
7 OCDD	1.34e2	0.77	NO	0.9746	10.000	41.22	1.001	0.267		0.105	0.267
8 2,3,7,8-TCDF			NO	0.8020	10.000					0.0303	
9 1,2,3,7,8-PeCDF			NO	0.8074	10.000					0.0320	
10 2,3,4,7,8-PeCDF			NO	0.9516	10.000					0.0296	
11 1,2,3,4,7,8-HxCDF			NO	0.8623	10.000					0.0420	
12 1,2,3,6,7,8-HxCDF			NO	0.8414	10.000					0.0410	
13 2,3,4,6,7,8-HxCDF			NO	0.8982	10.000					0.0445	
14 1,2,3,7,8,9-HxCDF	6.02e2	0.58	YES	0.8578	10.000	34.92	1.000	0.0903		0.0647	0.0809
15 1,2,3,4,6,7,8-HxCDF			NO	0.8511	10.000					0.0645	
16 1,2,3,4,7,8,9-HxCDF			NO	0.9799	10.000					0.0884	
17 OCDF			NO	0.8055	10.000					0.0874	
18 13C-2,3,7,8-TCDD	2.41e6	0.78	NO	1.1985	10.000	25.72	1.027	193	96.5	0.170	
19 13C-1,2,3,7,8-PeCDD	1.88e6	0.63	NO	0.9667	10.000	30.82	1.230	186	93.2	0.221	
20 13C-1,2,3,4,7,8-HxCDD	1.30e6	1.26	NO	0.8739	10.000	34.20	1.014	165	82.5	0.270	
21 13C-1,2,3,6,7,8-HxCDD	1.72e6	1.27	NO	1.0458	10.000	34.21	1.017	183	91.6	0.309	

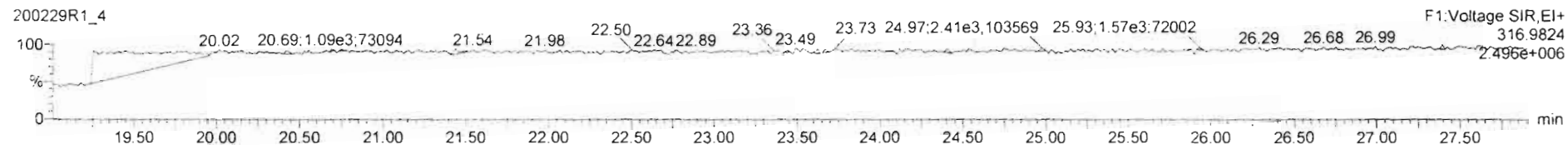


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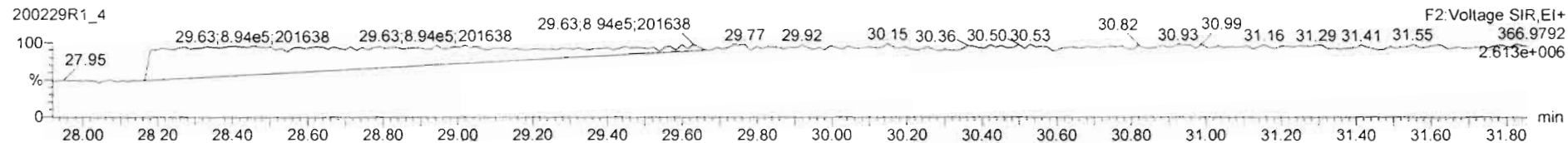
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Name: 200229R1_4, Date: 29-Feb-2020, Time: 13:36:48, ID: B0A0229-BLK1 Method Blank 10, Description: Method Blank

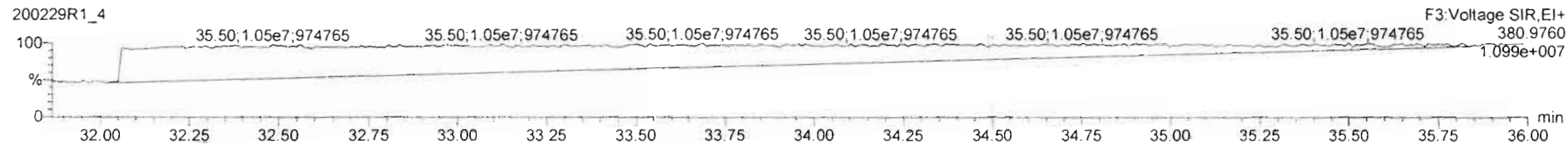
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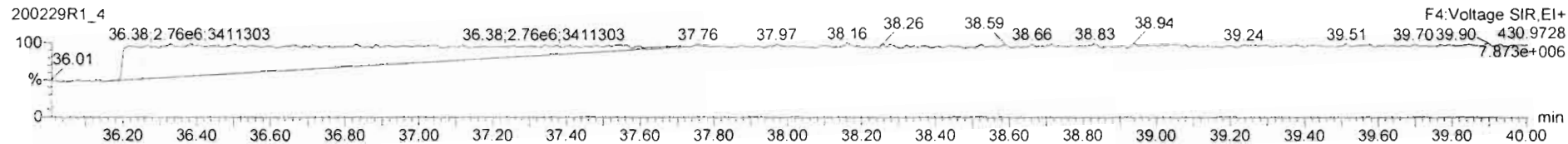
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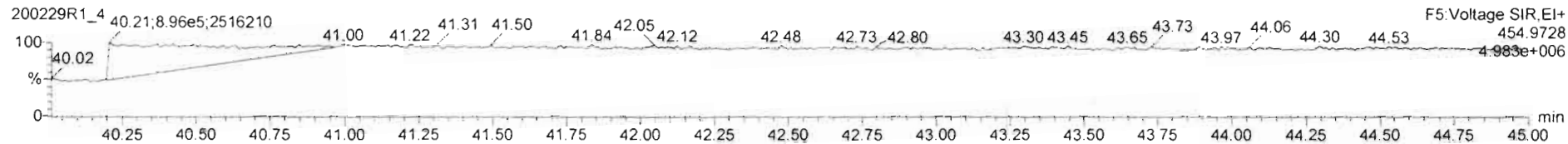
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200229R1\200229R1-2.qld

Last Altered: Thursday, March 05, 2020 09:57:27 Pacific Standard Time

Printed: Thursday, March 05, 2020 09:58:38 Pacific Standard Time

ly 03-05-2020 07:03/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R1_2, Date: 29-Feb-2020, Time: 12:03:12, ID: B0A0229-BS1 OPR 10, Description: OPR

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	182641.149	0.740	NO	0.988	10.000	25.77	25.75	1.00	1.00	NO	17.25		0.0609	17.25
2	2 1,2,3,7,8-PeCDD	734618.032	0.618	NO	0.972	10.000	30.86	30.85	1.00	1.00	NO	85.25		0.138	85.25
3	3 1,2,3,4,7,8-HxCDD	624658.156	1.235	NO	1.07	10.000	34.23	34.23	1.00	1.00	NO	93.19		0.258	93.19
4	4 1,2,3,6,7,8-HxCDD	834672.469	1.230	NO	0.921	10.000	34.32	34.33	1.00	1.00	NO	98.41		0.253	98.41
5	5 1,2,3,7,8,9-HxCDD	756910.281	1.233	NO	0.918	10.000	34.63	34.60	1.00	1.00	NO	95.91		0.311	95.91
6	6 1,2,3,4,6,7,8-HpCDD	551225.531	1.015	NO	0.923	10.000	38.11	38.12	1.00	1.00	NO	96.26		0.453	96.26
7	7 OCDD	933610.407	0.863	NO	0.975	10.000	41.22	41.23	1.00	1.00	NO	181.5		0.414	181.5
8	8 2,3,7,8-TCDF	208201.594	0.769	NO	0.802	10.000	24.82	24.82	1.00	1.00	NO	19.81		0.0635	19.81
9	9 1,2,3,7,8-PeCDF	1030128.5...	1.564	NO	0.907	10.000	29.54	29.54	1.00	1.00	NO	94.21		0.234	94.21
10	10 2,3,4,7,8-PeCDF	1076627.8...	1.514	NO	0.952	10.000	30.54	30.53	1.00	1.00	NO	96.41		0.215	96.41
11	11 1,2,3,4,7,8-HxCDF	756127.344	1.211	NO	0.862	10.000	33.36	33.37	1.00	1.00	NO	108.8		0.289	108.8
12	12 1,2,3,6,7,8-HxCDF	946877.813	1.133	NO	0.841	10.000	33.49	33.49	1.00	1.00	NO	110.7		0.257	110.7
13	13 2,3,4,6,7,8-HxCDF	855595.688	1.170	NO	0.898	10.000	34.09	34.06	1.00	1.00	NO	107.1		0.304	107.1
14	14 1,2,3,7,8,9-HxCDF	659222.875	1.205	NO	0.858	10.000	34.94	34.95	1.00	1.00	NO	98.71		0.432	98.71
15	15 1,2,3,4,6,7,8-HpCDF	651088.063	1.020	NO	0.851	10.000	36.71	36.69	1.00	1.00	NO	110.6		0.499	110.6
16	16 1,2,3,4,7,8,9-HpCDF	536062.594	1.010	NO	0.980	10.000	38.75	38.77	1.00	1.00	NO	115.5		0.627	115.5
17	17 OCDF	1029356.3...	0.874	NO	0.806	10.000	41.40	41.41	1.00	1.00	NO	204.4		0.398	204.4
18	18 13C-2,3,7,8-TCDD	2142550.3...	0.778	NO	1.20	10.000	25.71	25.74	1.03	1.03	NO	172.9	86.4	0.157	
19	19 13C-1,2,3,7,8-PeCDD	1772606.5...	0.626	NO	0.967	10.000	30.84	30.83	1.23	1.23	NO	177.3	88.7	0.225	
20	20 13C-1,2,3,4,7,8-HxCDD	1251937.3...	1.277	NO	0.874	10.000	34.21	34.22	1.01	1.01	NO	149.9	74.9	0.469	
21	21 13C-1,2,3,6,7,8-HxCDD	1841574.0...	1.259	NO	1.05	10.000	34.32	34.32	1.02	1.02	NO	184.2	92.1	0.392	
22	22 13C-1,2,3,7,8,9-HxCDD	1719055.3...	1.255	NO	0.974	10.000	34.62	34.60	1.03	1.03	NO	184.6	92.3	0.421	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1240732.9...	1.044	NO	0.747	10.000	38.20	38.10	1.13	1.13	NO	173.7	86.9	0.488	
24	24 13C-OCDD	2111671.875	0.915	NO	0.707	10.000	41.10	41.22	1.22	1.22	NO	312.7	78.2	0.581	
25	25 13C-2,3,7,8-TCDF	2621154.2...	0.775	NO	1.07	10.000	24.89	24.79	0.99	0.99	NO	173.0	86.5	0.264	
26	26 13C-1,2,3,7,8-PeCDF	2410110.7...	1.558	NO	1.00	10.000	29.47	29.52	1.18	1.18	NO	169.2	84.6	0.446	
27	27 13C-2,3,4,7,8-PeCDF	2346968.4...	1.589	NO	0.962	10.000	30.44	30.51	1.21	1.22	NO	171.6	85.8	0.465	
28	28 13C-1,2,3,4,7,8-HxCDF	1611377.8...	0.524	NO	1.05	10.000	33.34	33.36	0.99	0.99	NO	160.7	80.3	0.528	
29	29 13C-1,2,3,6,7,8-HxCDF	2033068.3...	0.484	NO	1.19	10.000	33.44	33.48	0.99	0.99	NO	178.8	89.4	0.466	
30	30 13C-2,3,4,6,7,8-HxCDF	1779027.1...	0.515	NO	1.07	10.000	34.05	34.05	1.01	1.01	NO	174.6	87.3	0.520	
31	31 13C-1,2,3,7,8,9-HxCDF	1557149.8...	0.515	NO	0.922	10.000	34.96	34.94	1.04	1.04	NO	176.6	88.3	0.601	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-2.qld

Last Altered: Thursday, March 05, 2020 09:57:27 Pacific Standard Time
Printed: Thursday, March 05, 2020 09:58:38 Pacific Standard Time

Name: 200229R1_2, Date: 29-Feb-2020, Time: 12:03:12, ID: B0A0229-BS1 OPR 10, Description: OPR

	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1383302.7...	0.443	NO	0.767	10.000	36.71	36.67	1.09	1.09	NO	188.7	94.3	0.628	
33	33 13C-1,2,3,4,7,8,9-HpCDF	947122.719	0.461	NO	0.552	10.000	38.74	38.75	1.15	1.15	NO	179.4	89.7	0.872	
34	34 13C-OCDF	2500706.8...	0.872	NO	0.789	10.000	41.33	41.40	1.23	1.23	NO	331.5	82.9	0.425	
35	35 37Cl-2,3,7,8-TCDD	804947.813			1.18	10.000	25.74	25.75	1.03	1.03	NO	66.17	82.7	0.0544	
36	36 13C-1,2,3,4-TCDD	2068248.0...	0.798	NO	1.00	10.000	25.11	25.06	1.00	1.00	NO	200.0	100	0.188	
37	37 13C-1,2,3,4-TCDF	2844679.1...	0.780	NO	1.00	10.000	23.37	23.28	1.00	1.00	NO	200.0	100	0.281	
38	38 13C-1,2,3,4,6,9-HxCDF	1911478.1...	0.498	NO	1.00	10.000	33.71	33.74	1.00	1.00	NO	200.0	100	0.554	
39	39 Total Tetra-Dioxins				0.988	10.000	24.62		0.00		NO	17.25		0.0609	17.25
40	40 Total Penta-Dioxins				0.972	10.000	29.96		0.00		NO	85.25		0.138	85.25
41	41 Total Hexa-Dioxins				0.921	10.000	33.63		0.00		NO	287.5		0.286	287.5
42	42 Total Hepta-Dioxins				0.923	10.000	37.64		0.00		NO	96.26		0.453	96.26
43	43 Total Tetra-Furans				0.802	10.000	23.61		0.00		NO	19.81		0.0635	19.81
44	44 1st Func. Penta-Furans				0.907	10.000	27.09		0.00		NO			0.0170	
45	45 Total Penta-Furans				0.907	10.000	29.27		0.00		NO	190.6		0.230	190.6
46	46 Total Hexa-Furans				0.898	10.000	33.56		0.00		NO	425.3		0.304	425.3
47	47 Total Hepta-Furans				0.851	10.000	37.83		0.00		NO	226.1		0.590	226.1

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-2.qld

Last Altered: Thursday, March 05, 2020 09:57:27 Pacific Standard Time

Printed: Thursday, March 05, 2020 09:58:52 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R1_2, Date: 29-Feb-2020, Time: 12:03:12, ID: B0A0229-BS1 OPR 10, Description: OPR

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	1 2,3,7,8-TCDD	1.83e5	2.14e6	0.740	NO	25.77	25.75	17.25	17.25

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	2 1,2,3,7,8-PeCDD	7.35e5	1.77e6	0.618	NO	30.86	30.85	85.25	85.25

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	4 1,2,3,6,7,8-HxCDD	8.35e5	1.84e6	1.230	NO	34.32	34.33	98.41	98.41
2	3 1,2,3,4,7,8-HxCDD	6.25e5	1.25e6	1.235	NO	34.23	34.23	93.19	93.19
3	5 1,2,3,7,8,9-HxCDD	7.57e5	1.72e6	1.233	NO	34.63	34.60	95.91	95.91

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	5.51e5	1.24e6	1.015	NO	38.11	38.12	96.26	96.26

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	8 2,3,7,8-TCDF	2.08e5	2.62e6	0.769	NO	24.82	24.82	19.81	19.81

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-2.qld

Last Altered: Thursday, March 05, 2020 09:57:27 Pacific Standard Time

Printed: Thursday, March 05, 2020 09:58:52 Pacific Standard Time

Name: 200229R1_2, Date: 29-Feb-2020, Time: 12:03:12, ID: B0A0229-BS1 OPR 10, Description: OPR

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	1.08e6	2.35e6	1.514	NO	30.54	30.53	96.41	96.41
2	9 1,2,3,7,8-PeCDF	1.03e6	2.41e6	1.564	NO	29.54	29.54	94.21	94.21

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	6.59e5	1.56e6	1.205	NO	34.94	34.95	98.71	98.71
2	13 2,3,4,6,7,8-HxCDF	8.56e5	1.78e6	1.170	NO	34.09	34.06	107.1	107.1
3	12 1,2,3,6,7,8-HxCDF	9.47e5	2.03e6	1.133	NO	33.49	33.49	110.7	110.7
4	11 1,2,3,4,7,8-HxCDF	7.56e5	1.61e6	1.211	NO	33.36	33.37	108.8	108.8

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	6.51e5	1.38e6	1.020	NO	36.71	36.69	110.6	110.6
2	16 1,2,3,4,7,8,9-HpCDF	5.36e5	9.47e5	1.010	NO	38.75	38.77	115.5	115.5

Dataset: Untitled

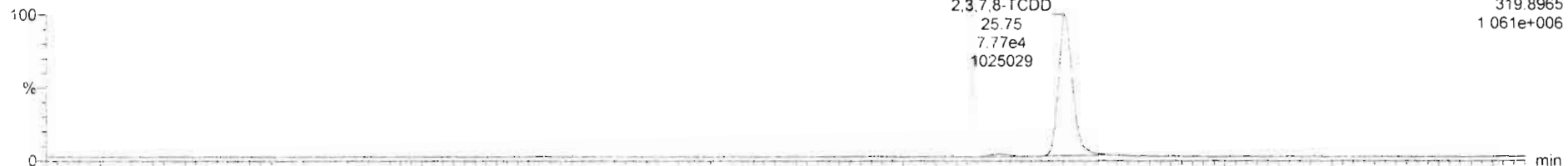
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

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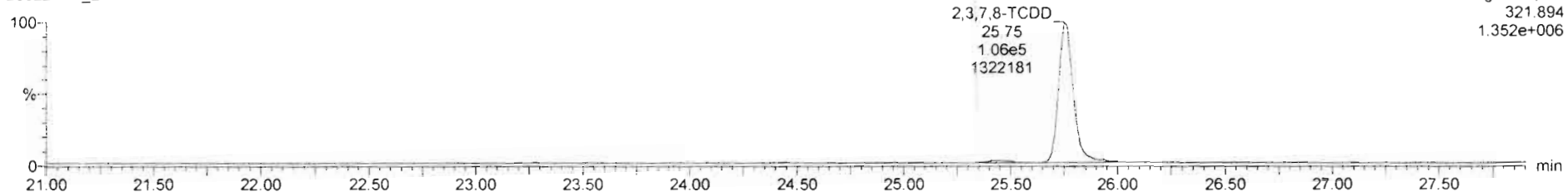
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2,3,7,8-TCDD

200229R1_2

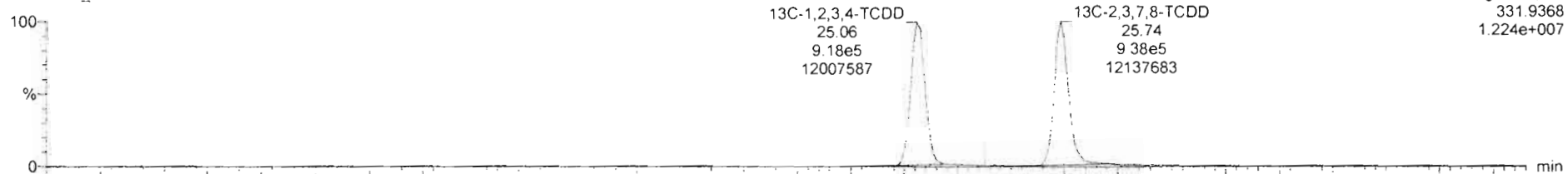


200229R1_2

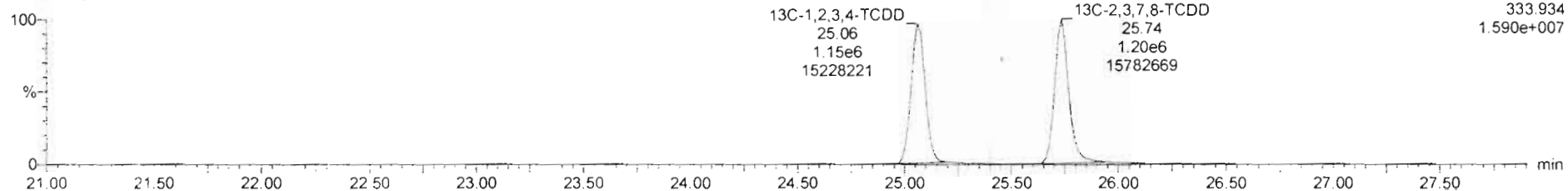


13C-2,3,7,8-TCDD

200229R1_2



200229R1_2



Dataset: Untitled

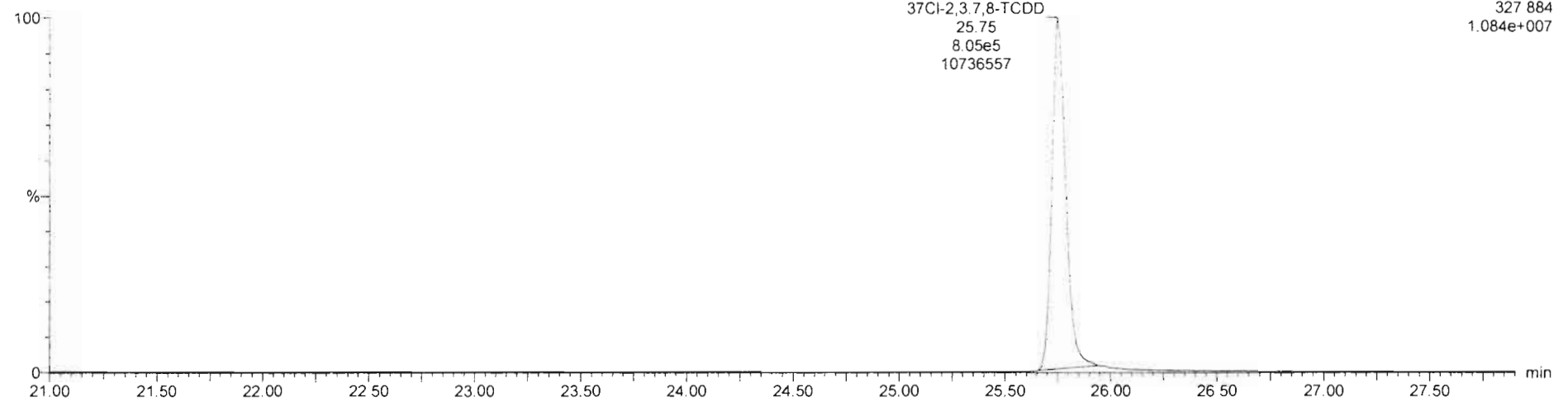
Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_2, Date: 29-Feb-2020, Time: 12:03:12, ID: B0A0229-BS1 OPR 10, Description: OPR

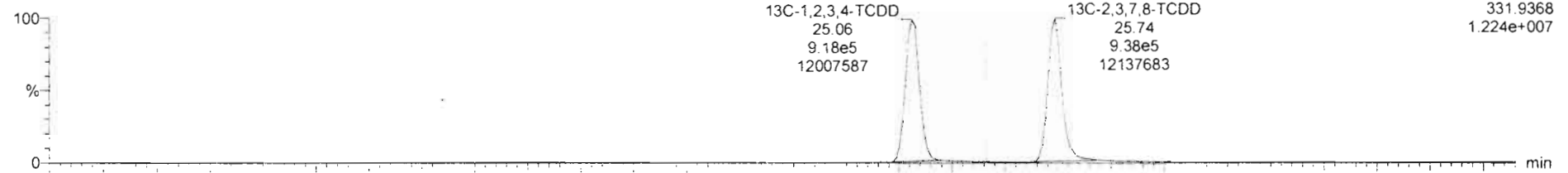
37Cl-2,3,7,8-TCDD

200229R1_2

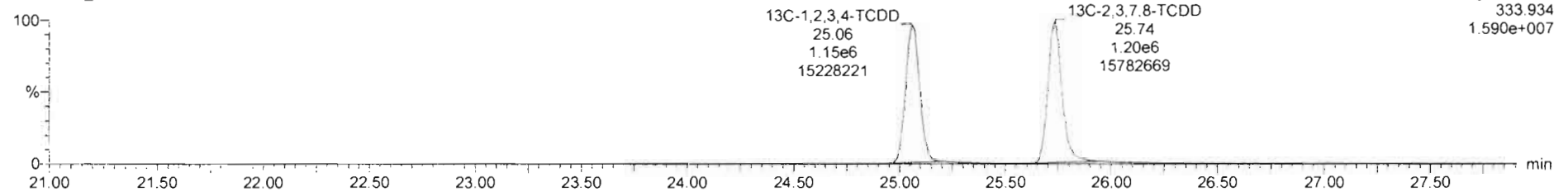


13C-1,2,3,4-TCDD

200229R1_2



200229R1_2



Dataset: Untitled

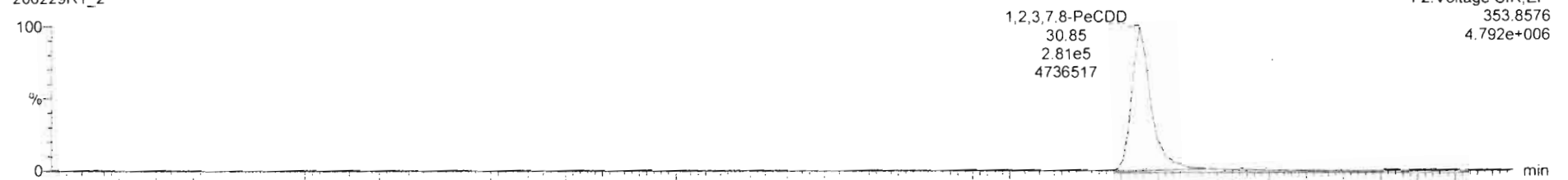
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

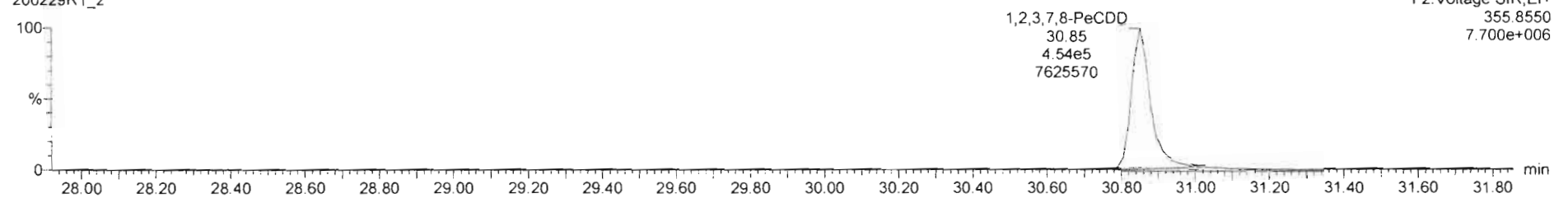
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1,2,3,7,8-PeCDD

200229R1_2

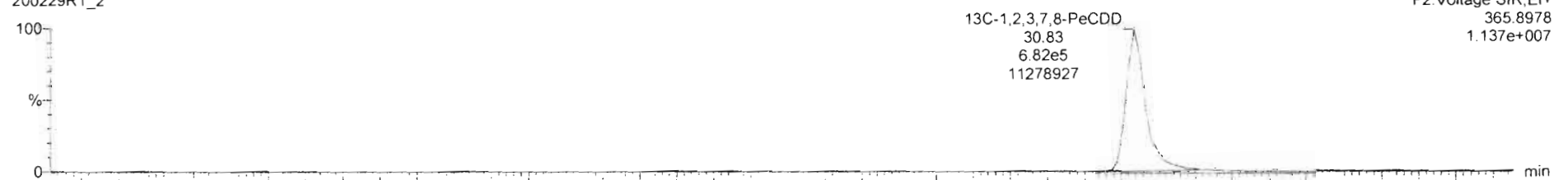


200229R1_2

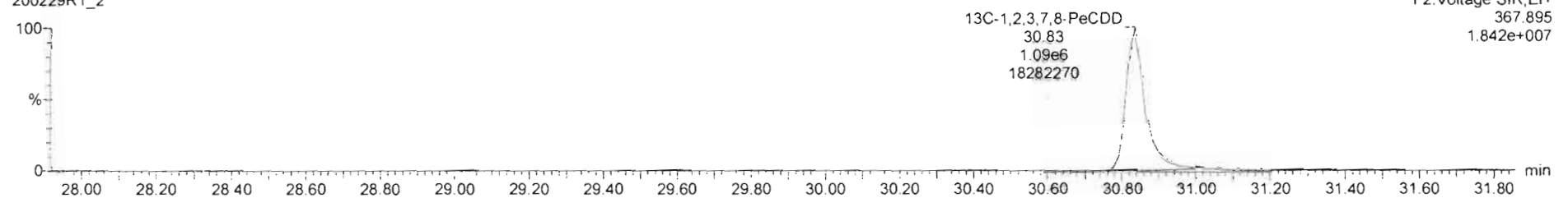


13C-1,2,3,7,8-PeCDD

200229R1_2



200229R1_2



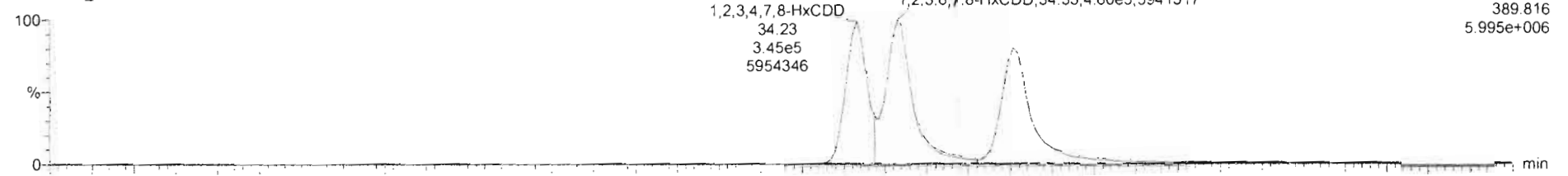
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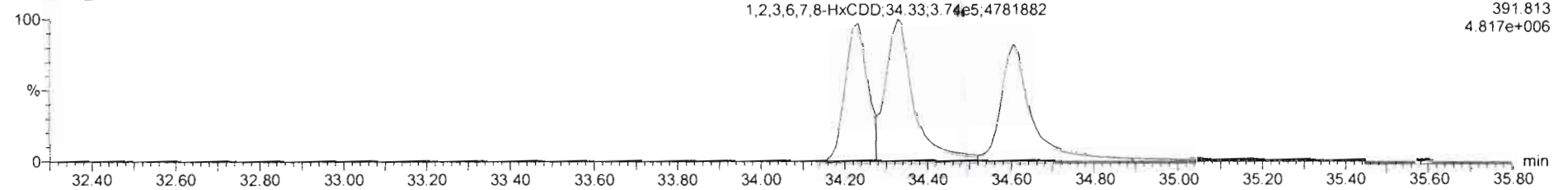
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1,2,3,4,7,8-HxCDD

200229R1_2

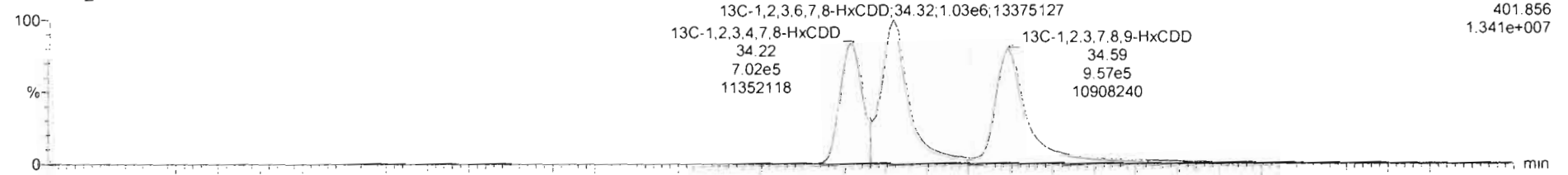


200229R1_2

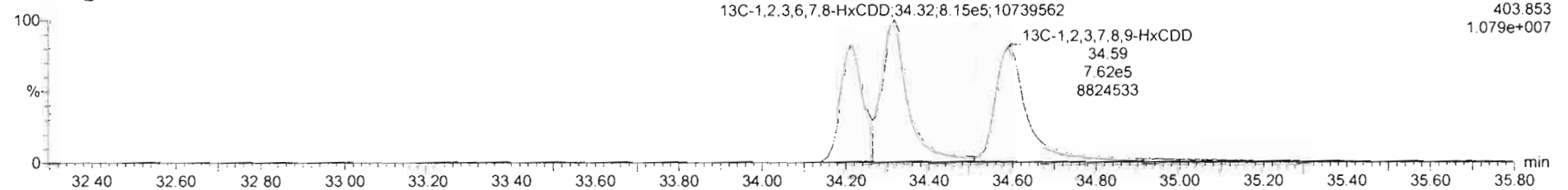


¹³C-1,2,3,4,7,8-HxCDD

200229R1_2



200229R1_2



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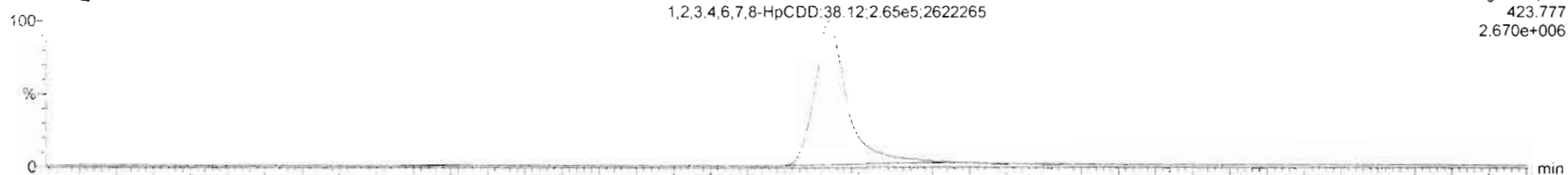
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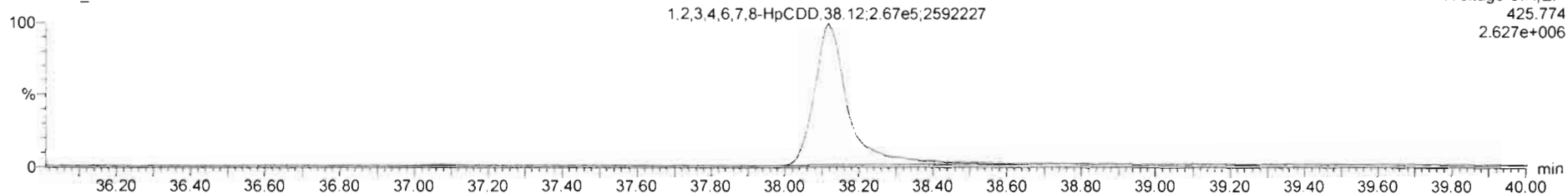
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1,2,3,4,6,7,8-HpCDD

200229R1_2

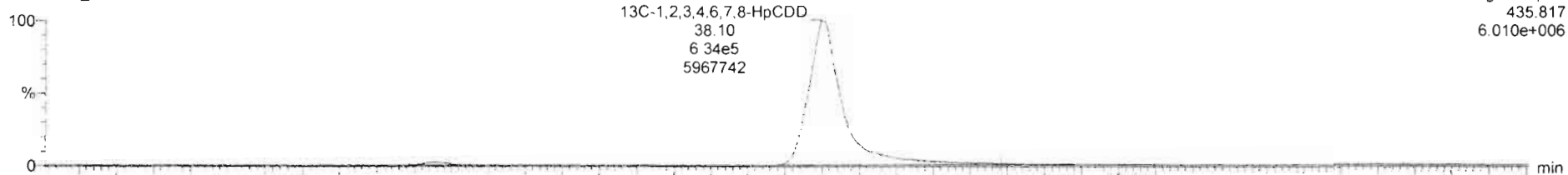


200229R1_2

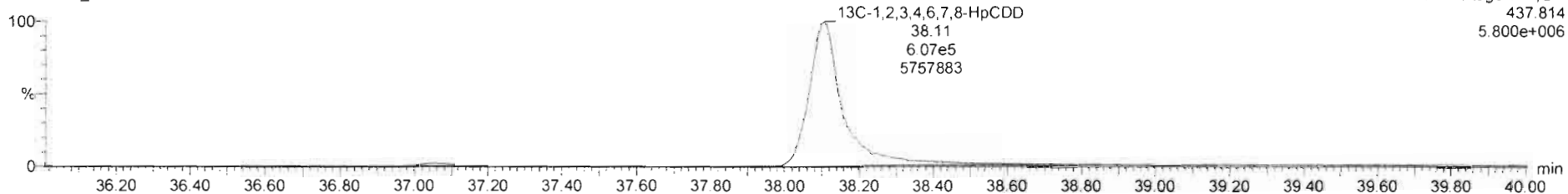


13C-1,2,3,4,6,7,8-HpCDD

200229R1_2



200229R1_2



Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

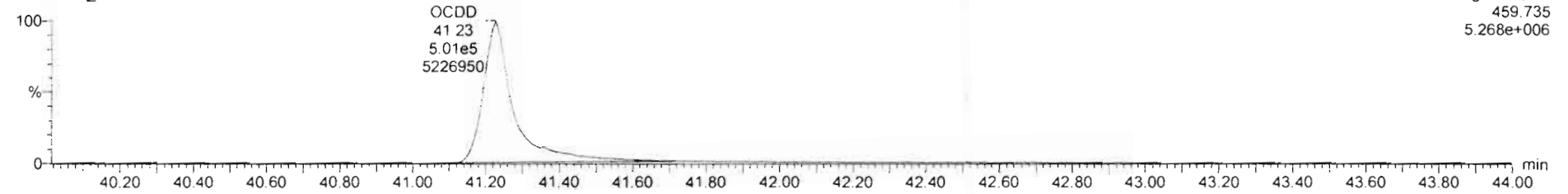
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OCDD

200229R1_2



200229R1_2

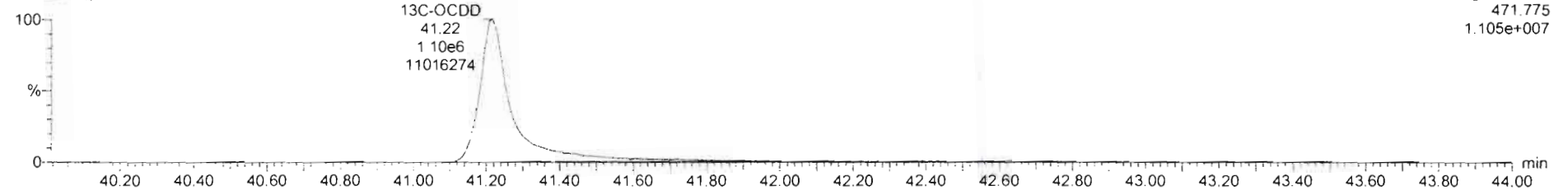


13C-OCDD

200229R1_2



200229R1_2

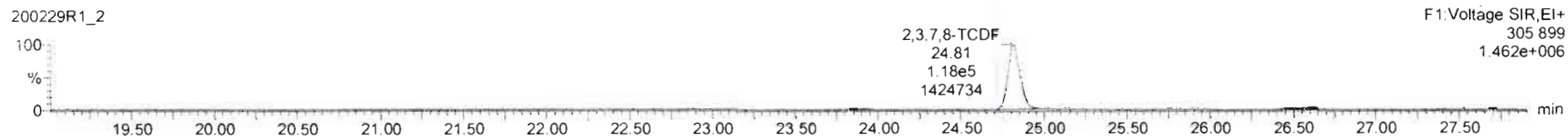


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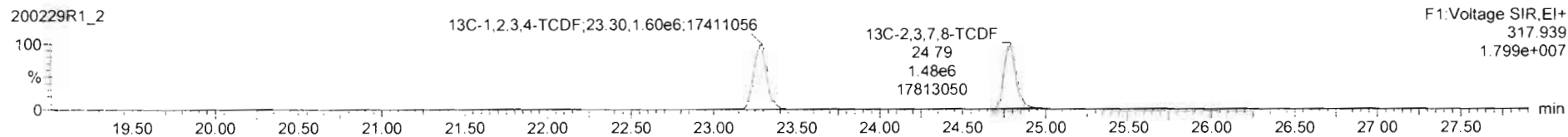
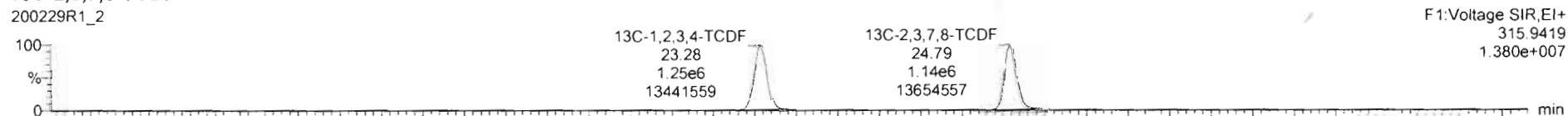
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

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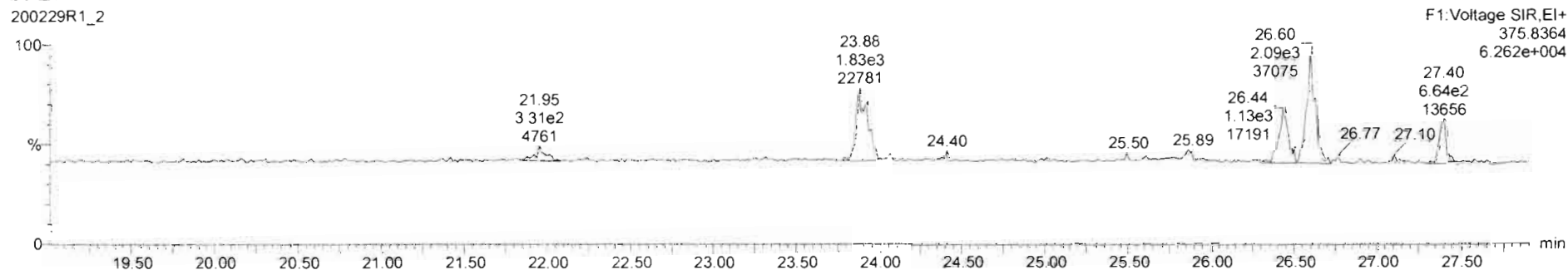
2,3,7,8-TCDF



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



DPE1



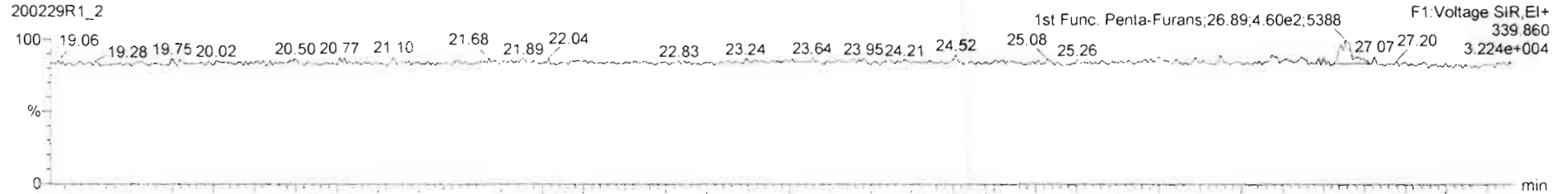
Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

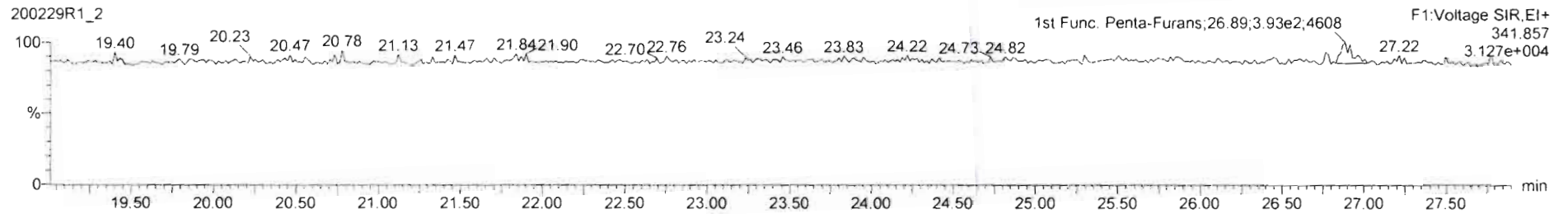
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200229R1_2

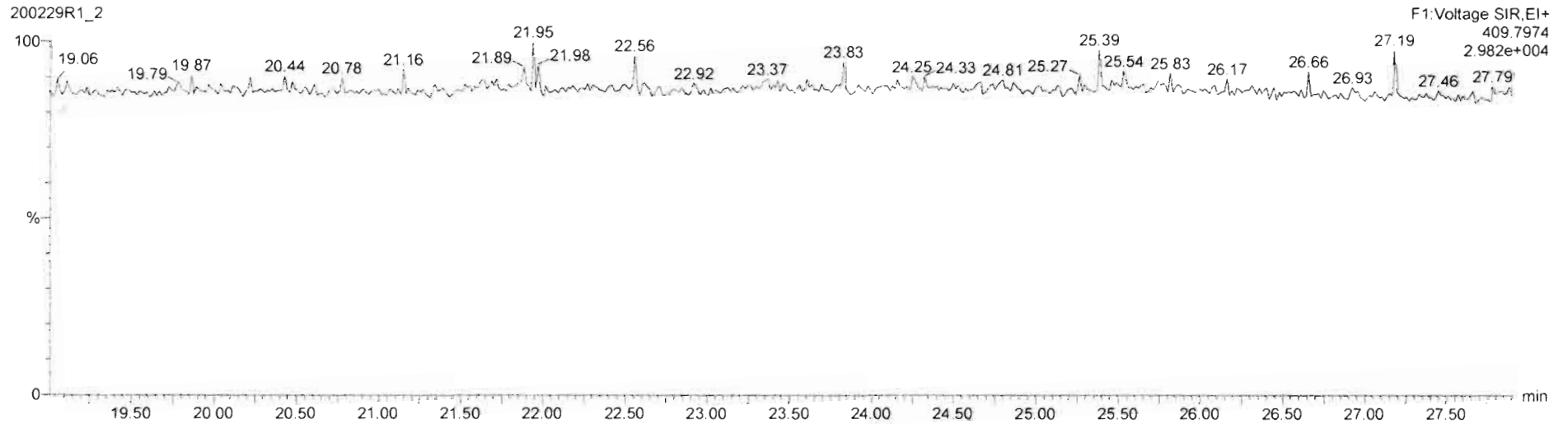


200229R1_2



DPE6

200229R1_2

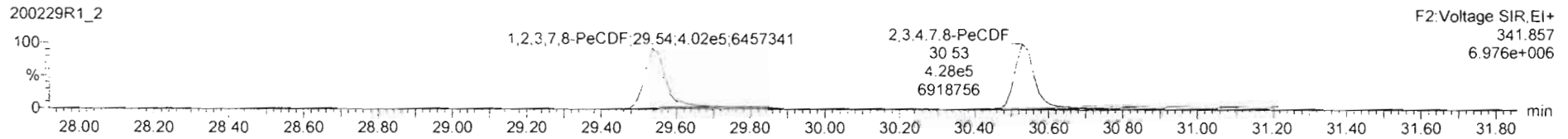
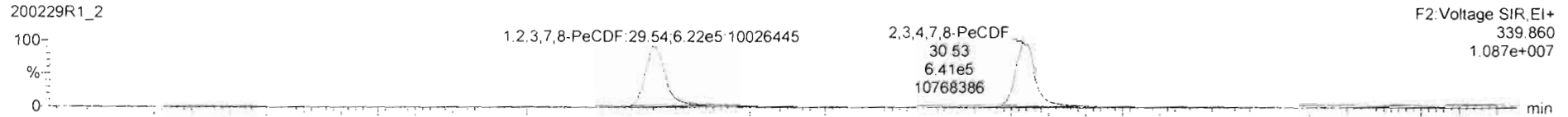


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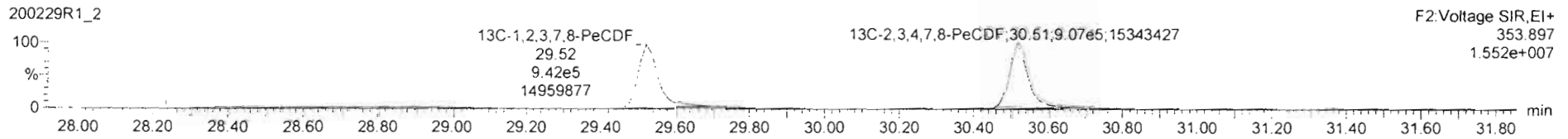
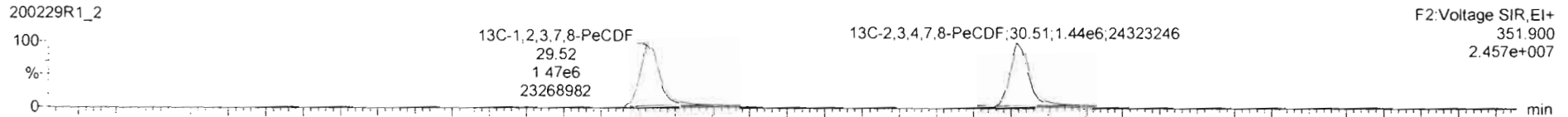
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

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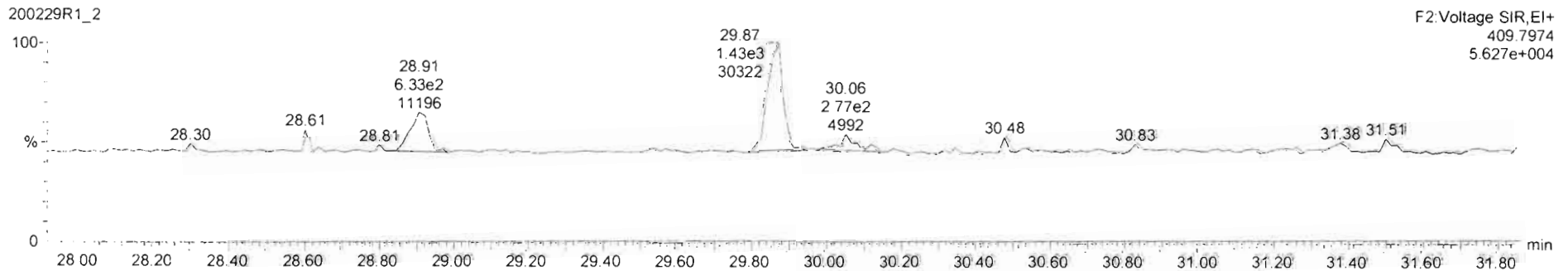
1,2,3,7,8-PeCDF



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



DPE2

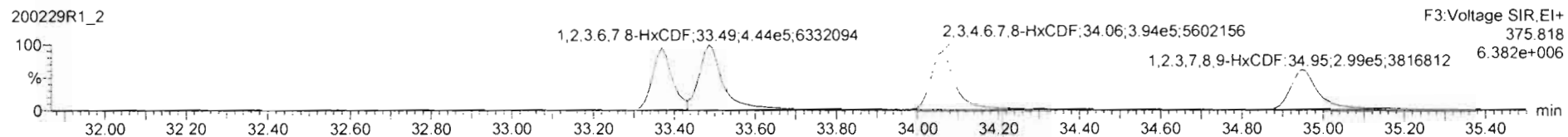
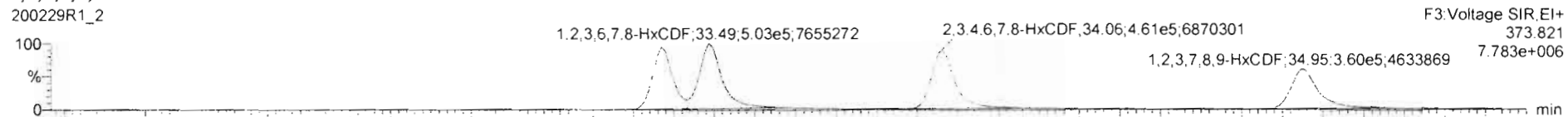


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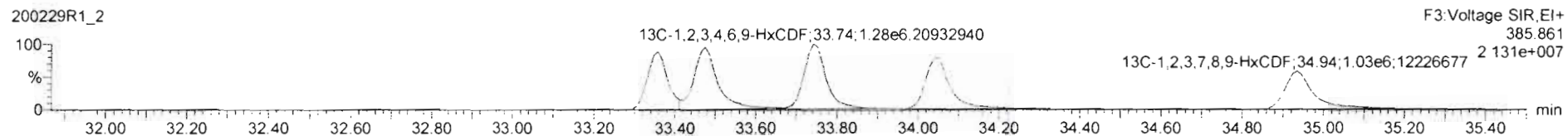
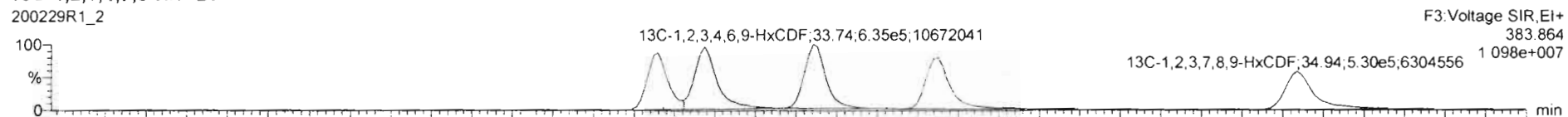
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

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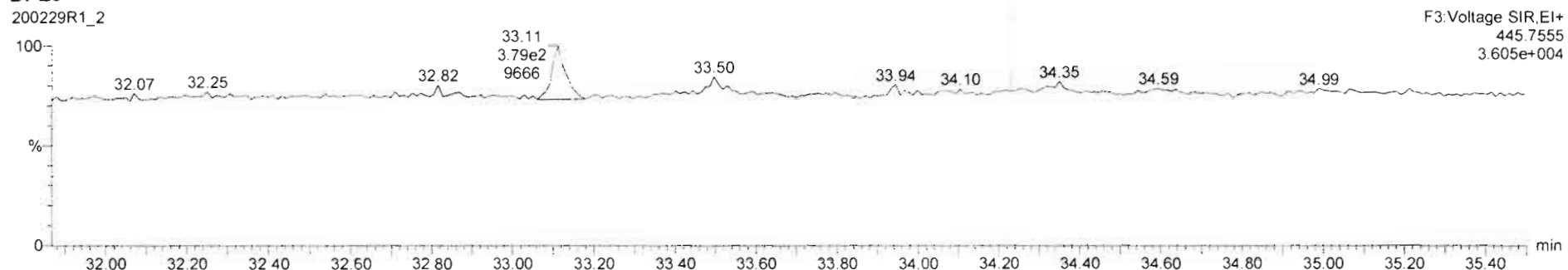
1,2,3,4,7,8-HxCDF



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



DPE3

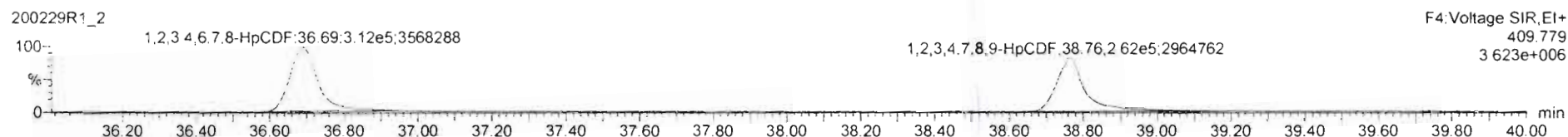
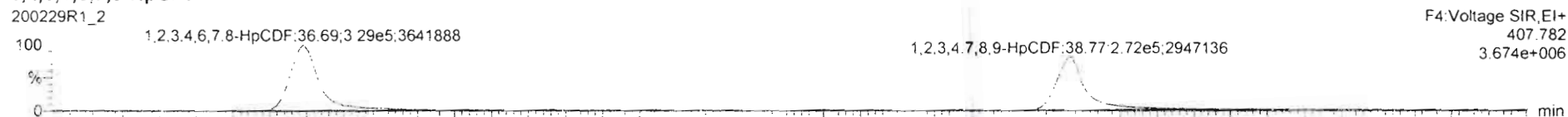


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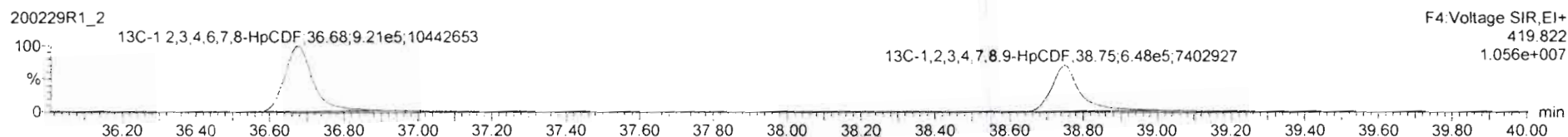
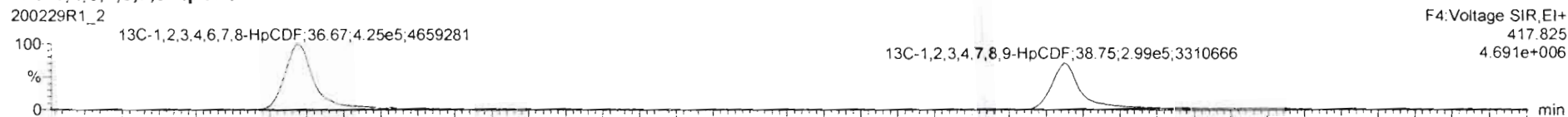
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

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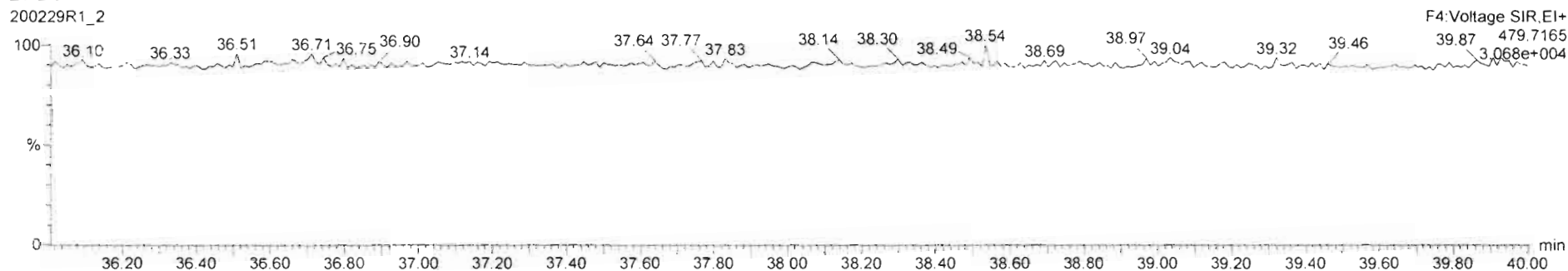
1,2,3,4,6,7,8-HpCDF



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



DPE4



Dataset: Untitled

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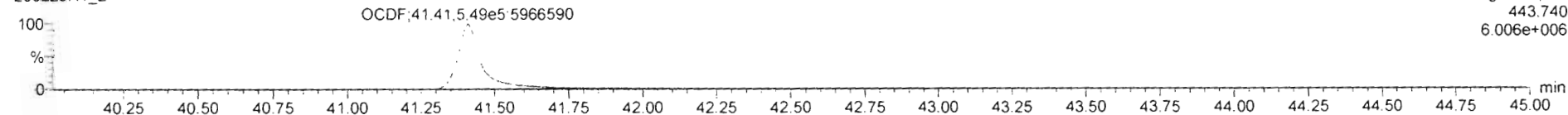
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OCDF

200229R1_2

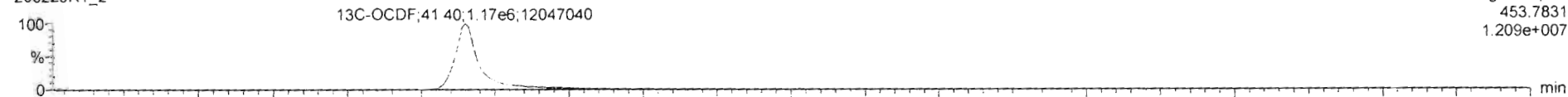


200229R1_2

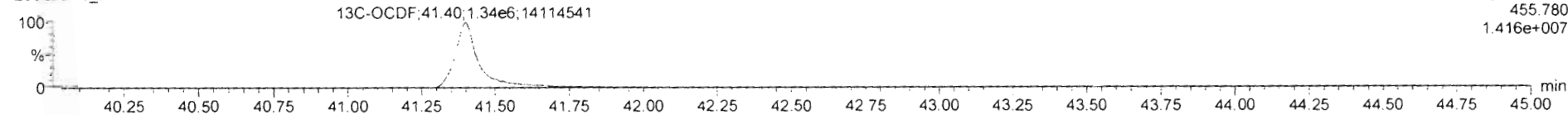


13C-OCDF

200229R1_2

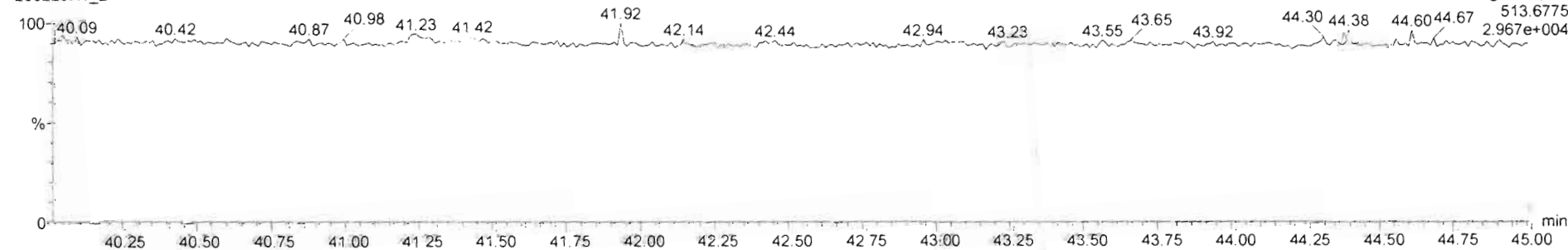


200229R1_2



DPE5

200229R1_2



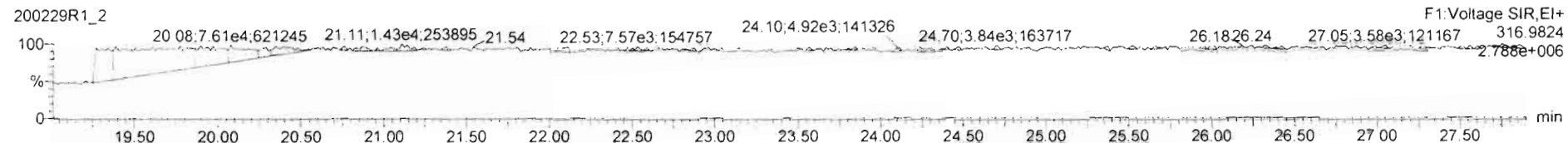
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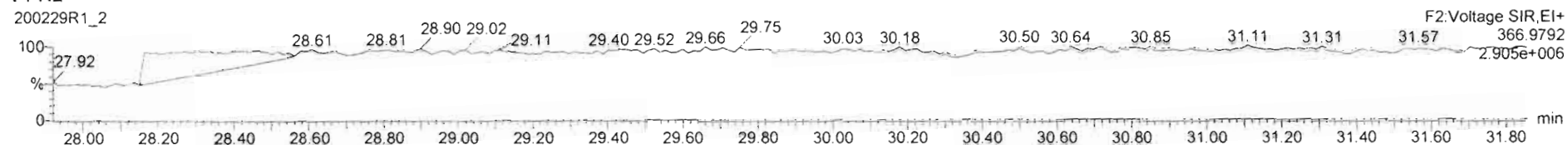
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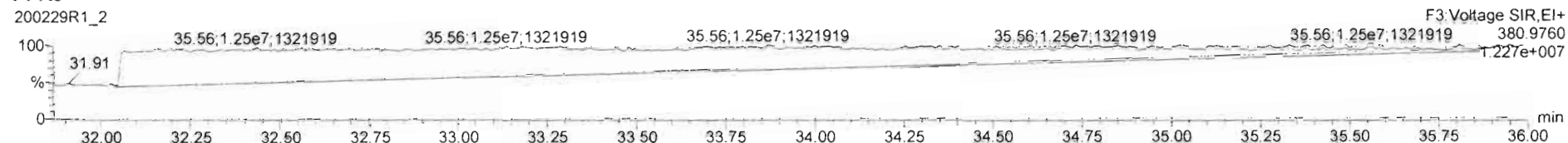
PFK1



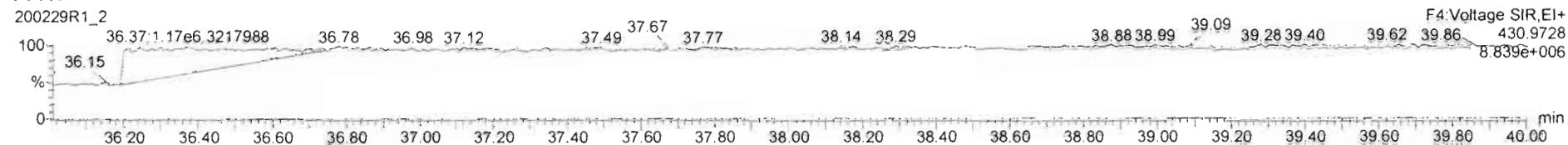
PFK2



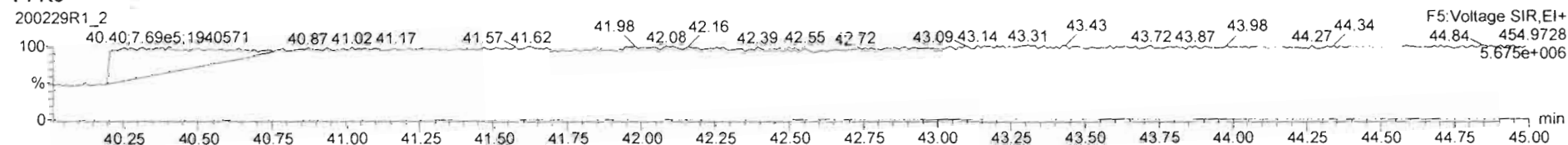
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200229R1\200229R1-5a.qld

Last Altered: Thursday, March 05, 2020 12:02:00 Pacific Standard Time

Printed: Thursday, March 05, 2020 12:07:46 Pacific Standard Time

dy 03-05-2020 *(7/03/16/2020)*

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R1_5, Date: 29-Feb-2020, Time: 14:24:13, ID: 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

#	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	2717.070	0.444	YES	0.988	10.011	25.75	25.75	1.00	1.00	NO	0.2674		0.123	0.2031
2	2 1,2,3,7,8-PeCDD	1893.887	0.607	NO	0.972	10.011	30.86	30.87	1.00	1.00	NO	0.2627		0.0762	0.2627
3	3 1,2,3,4,7,8-HxCDD	1734.531	1.260	NO	1.07	10.011	34.22	34.22	1.00	1.00	NO	0.3170		0.134	0.3170
4	4 1,2,3,6,7,8-HxCDD	9557.366	1.194	NO	0.921	10.011	34.32	34.33	1.00	1.00	NO	1.490		0.136	1.490
5	5 1,2,3,7,8,9-HxCDD	3147.603	1.110	NO	0.918	10.011	34.62	34.60	1.00	1.00	NO	0.5482		0.166	0.5482
6	6 1,2,3,4,6,7,8-HpCDD	301137.969	0.971	NO	0.923	10.011	38.10	38.11	1.00	1.00	NO	67.46		0.654	67.46
7	7 OCDD	2827694.2...	0.840	NO	0.975	10.011	41.21	41.22	1.00	1.00	NO	779.3		0.736	779.3
8	8 2,3,7,8-TCDF	115994.589	0.780	NO	0.802	10.011	24.82	24.81	1.00	1.00	NO	12.03 (0.4)		0.116	12.03
9	9 1,2,3,7,8-PeCDF	119782.289	1.484	NO	0.907	10.011	29.54	29.54	1.00	1.00	NO	12.84		0.128	12.84
10	10 2,3,4,7,8-PeCDF	20912.257	1.370	NO	0.952	10.011	30.53	30.53	1.00	1.00	NO	2.226		0.120	2.226
11	11 1,2,3,4,7,8-HxCDF	93335.223	1.204	NO	0.862	10.011	33.36	33.37	1.00	1.00	NO	16.18		0.135	16.18
12	12 1,2,3,6,7,8-HxCDF	33243.292	1.188	NO	0.841	10.011	33.49	33.49	1.00	1.00	NO	4.983		0.131	4.983
13	13 2,3,4,6,7,8-HxCDF	8902.656	1.217	NO	0.898	10.011	34.08	34.06	1.00	1.00	NO	1.457		0.142	1.457
14	14 1,2,3,7,8,9-HxCDF	2404.108	1.136	NO	0.858	10.011	34.94	34.96	1.00	1.00	NO	0.4817		0.215	0.4817
15	15 1,2,3,4,6,7,8-HpCDF	57919.592	1.013	NO	0.851	10.011	36.70	36.68	1.00	1.00	NO	13.42		0.231	13.42
16	16 1,2,3,4,7,8,9-HpCDF	10527.524	0.985	NO	0.980	10.011	38.73	38.75	1.00	1.00	NO	2.944		0.286	2.944
17	17 OCDF	125930.895	0.883	NO	0.806	10.011	41.39	41.39	1.00	1.00	NO	35.88		0.205	35.88
18	18 13C-2,3,7,8-TCDD	1911813.6...	0.785	NO	1.20	10.011	25.71	25.72	1.03	1.03	NO	162.9	81.5	0.185	
19	19 13C-1,2,3,7,8-PeCDD	1481106.3...	0.635	NO	0.967	10.011	30.84	30.83	1.23	1.23	NO	156.4	78.3	0.293	
20	20 13C-1,2,3,4,7,8-HxCDD	1020713.6...	1.283	NO	0.874	10.011	34.21	34.21	1.01	1.01	NO	135.2	67.7	0.370	
21	21 13C-1,2,3,6,7,8-HxCDD	1391242.1...	1.323	NO	1.05	10.011	34.32	34.32	1.02	1.02	NO	154.0	77.1	0.309	
22	22 13C-1,2,3,7,8,9-HxCDD	1249164.2...	1.376	NO	0.974	10.011	34.62	34.58	1.03	1.02	NO	148.4	74.3	0.332	
23	23 13C-1,2,3,4,6,7,8-HpCDD	966147.625	1.066	NO	0.747	10.011	38.20	38.09	1.13	1.13	NO	149.7	74.9	0.546	
24	24 13C-OCDD	1487710.7...	0.890	NO	0.707	10.011	41.10	41.21	1.22	1.22	NO	243.8	61.0	0.378	
25	25 13C-2,3,7,8-TCDF	2402567.3...	0.776	NO	1.07	10.011	24.89	24.79	0.99	0.99	NO	163.9	82.0	0.247	
26	26 13C-1,2,3,7,8-PeCDF	2054379.0...	1.566	NO	1.00	10.011	29.47	29.52	1.18	1.18	NO	149.0	74.6	0.443	
27	27 13C-2,3,4,7,8-PeCDF	1972137.6...	1.574	NO	0.962	10.011	30.44	30.51	1.21	1.22	NO	149.0	74.6	0.461	
28	28 13C-1,2,3,4,7,8-HxCDF	1336361.9...	0.513	NO	1.05	10.011	33.34	33.36	0.99	0.99	NO	147.4	73.8	0.510	
29	29 13C-1,2,3,6,7,8-HxCDF	1583921.7...	0.537	NO	1.19	10.011	33.44	33.48	0.99	0.99	NO	154.1	77.1	0.450	
30	30 13C-2,3,4,6,7,8-HxCDF	1358630.6...	0.519	NO	1.07	10.011	34.05	34.04	1.01	1.01	NO	147.5	73.8	0.502	
31	31 13C-1,2,3,7,8,9-HxCDF	1162291.4...	0.554	NO	0.922	10.011	34.96	34.94	1.04	1.04	NO	145.9	73.0	0.580	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-5a.qld

Last Altered: Thursday, March 05, 2020 12:02:00 Pacific Standard Time

Printed: Thursday, March 05, 2020 12:07:46 Pacific Standard Time

Name: 200229R1_5, Date: 29-Feb-2020, Time: 14:24:13, ID: 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1013143.8...	0.424	NO	0.767	10.011	36.71	36.66	1.09	1.09	NO	152.9	76.5	0.522	
33	33 13C-1,2,3,4,7,8,9-HpCDF	729148.282	0.423	NO	0.552	10.011	38.74	38.73	1.15	1.15	NO	152.8	76.5	0.725	
34	34 13C-OCDF	1740914.8...	0.884	NO	0.789	10.011	41.33	41.39	1.23	1.23	NO	255.3	63.9	0.352	
35	35 37Cl-2,3,7,8-TCDD	827367.125			1.18	10.011	25.74	25.75	1.03	1.03	NO	71.81	89.9	0.0410	
36	36 13C-1,2,3,4-TCDD	1956846.5...	0.787	NO	1.00	10.011	25.11	25.06	1.00	1.00	NO	199.8	100	0.222	
37	37 13C-1,2,3,4-TCDF	2749122.7...	0.797	NO	1.00	10.011	23.37	23.28	1.00	1.00	NO	199.8	100	0.263	
38	38 13C-1,2,3,4,6,9-HxCDF	1725740.2...	0.538	NO	1.00	10.011	33.71	33.74	1.00	1.00	NO	199.8	100	0.535	
39	39 Total Tetra-Dioxins				0.988	10.011	24.62		0.00		NO	0.5537		0.183	1.043
40	40 Total Penta-Dioxins				0.972	10.011	29.96		0.00		NO	2.508		0.0762	2.508
41	41 Total Hexa-Dioxins				0.921	10.011	33.63		0.00		NO	19.27		0.151	19.27
42	42 Total Hepta-Dioxins				0.923	10.011	37.64		0.00		NO	151.1		0.654	151.1
43	43 Total Tetra-Furans				0.802	10.011	23.61		0.00		NO	40.95		0.116	40.95
44	44 1st Func. Penta-Furans				0.907	10.011	27.09		0.00		NO	4.384		0.0303	4.384
45	45 Total Penta-Furans				0.907	10.011	29.27		0.00		NO	37.46		0.127	37.77
46	46 Total Hexa-Furans				0.898	10.011	33.56		0.00		NO	39.58		0.147	39.73
47	47 Total Hepta-Furans				0.851	10.011	37.83		0.00		NO	45.59		0.272	45.83

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-5a.qld

Last Altered: Thursday, March 05, 2020 12:02:00 Pacific Standard Time

Printed: Thursday, March 05, 2020 12:10:31 Pacific Standard Time

Name: 200229R1_5, Date: 29-Feb-2020, Time: 14:24:13, ID: 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	2.65e3	0.00e0	1.766	NO	29.27	28.39	0.2893	0.2893
2	45 Total Penta-Furans	7.49e4	0.00e0	1.499	NO	29.27	28.53	8.194	8.194
3	45 Total Penta-Furans	1.51e4	0.00e0	1.537	NO	29.27	29.14	1.655	1.655
4	45 Total Penta-Furans	1.67e4	0.00e0	1.731	NO	29.27	29.35	1.824	1.824
5	9 1,2,3,7,8-PeCDF	1.20e5	2.05e6	1.484	NO	29.54	29.54	12.84	12.84
6	45 Total Penta-Furans	4.27e4	0.00e0	1.443	NO	29.27	29.81	4.670	4.670
7	45 Total Penta-Furans	8.29e2	0.00e0	1.426	NO	29.27	30.44	0.09061	0.09061
8	10 2,3,4,7,8-PeCDF	2.09e4	1.97e6	1.370	NO	30.53	30.53	2.226	2.226
9	45 Total Penta-Furans	0.00e0	0.00e0	1.213	YES	29.27	31.48	0.0000	0.3077
10	45 Total Penta-Furans	5.19e4	0.00e0	1.528	NO	29.27	30.55	5.676	5.676

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	1.04e4	0.00e0	1.145	NO	33.56	32.20	1.703	1.703
2	46 Total Hexa-Furans	3.29e4	0.00e0	1.244	NO	33.56	32.37	5.373	5.373
3	46 Total Hexa-Furans	7.05e2	0.00e0	1.274	NO	33.56	32.72	0.1152	0.1152
4	46 Total Hexa-Furans	4.56e4	0.00e0	1.268	NO	33.56	32.91	7.455	7.455
5	46 Total Hexa-Furans	0.00e0	0.00e0	0.763	YES	33.56	33.26	0.0000	0.1504
6	11 1,2,3,4,7,8-HxCDF	9.33e4	1.34e6	1.204	NO	33.36	33.37	16.18	16.18
7	12 1,2,3,6,7,8-HxCDF	3.32e4	1.58e6	1.188	NO	33.49	33.49	4.983	4.983
8	46 Total Hexa-Furans	1.20e3	0.00e0	1.419	NO	33.56	33.75	0.1965	0.1965
9	13 2,3,4,6,7,8-HxCDF	8.90e3	1.36e6	1.217	NO	34.08	34.06	1.457	1.457
10	14 1,2,3,7,8,9-HxCDF	2.40e3	1.16e6	1.136	NO	34.94	34.96	0.4817	0.4817
11	46 Total Hexa-Furans	9.98e3	0.00e0	1.169	NO	33.56	34.98	1.632	1.632

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-5a.qld

Last Altered: Thursday, March 05, 2020 12:02:00 Pacific Standard Time

Printed: Thursday, March 05, 2020 12:10:31 Pacific Standard Time

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Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	5.79e4	1.01e6	1.013	NO	36.70	36.68	13.42	13.42
2	47 Total Hepta-Furans	0.00e0	0.00e0	1.288	YES	37.83	37.08	0.0000	0.2418
3	47 Total Hepta-Furans	1.08e5	0.00e0	1.019	NO	37.83	37.27	29.23	29.23
4	16 1,2,3,4,7,8,9-HpCDF	1.05e4	7.29e5	0.985	NO	38.73	38.75	2.944	2.944

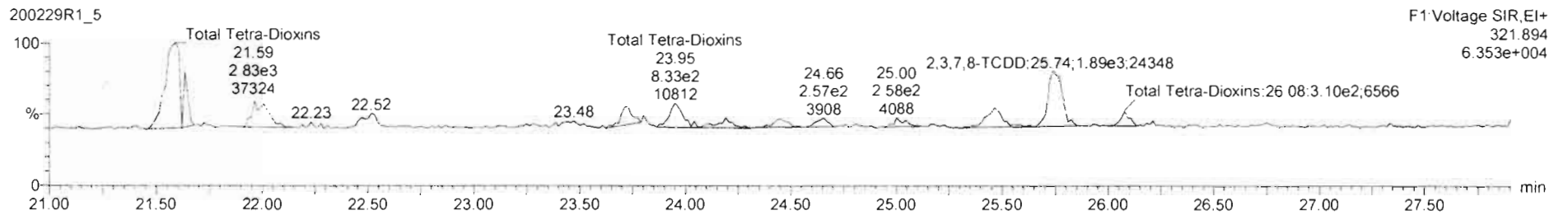
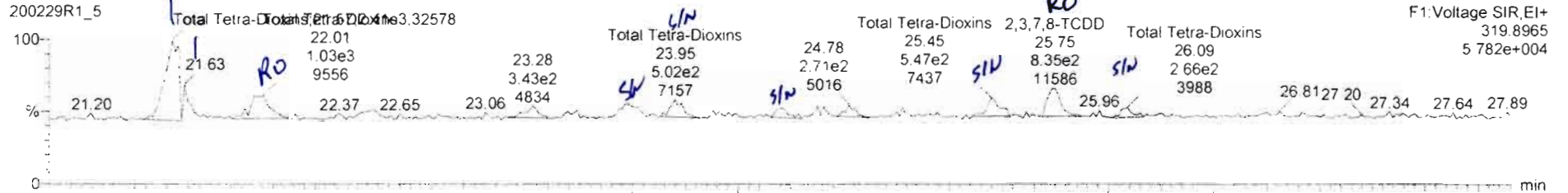
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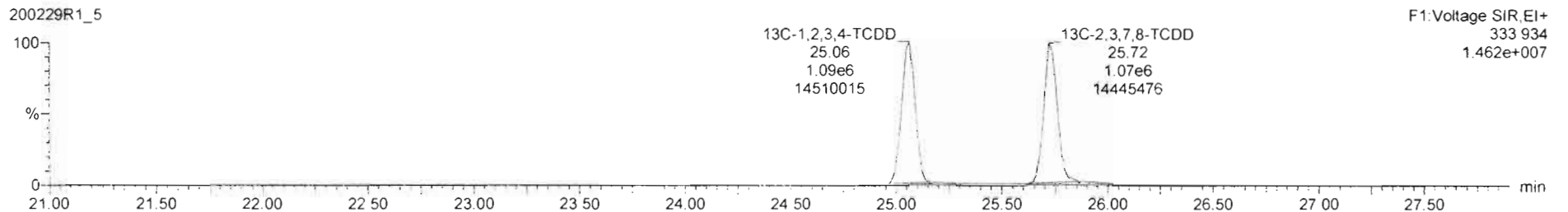
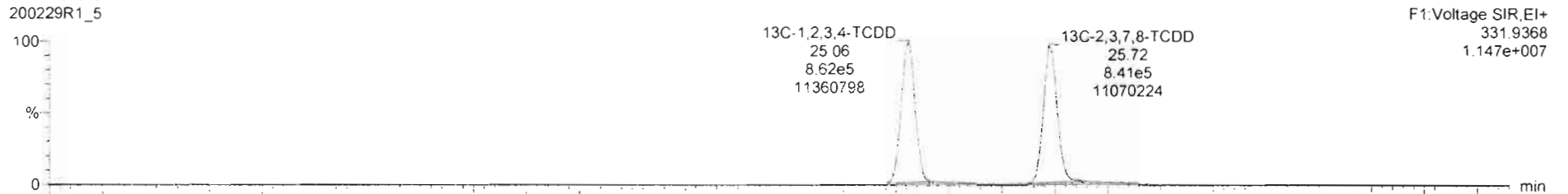
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2,3,7,8-TCDD

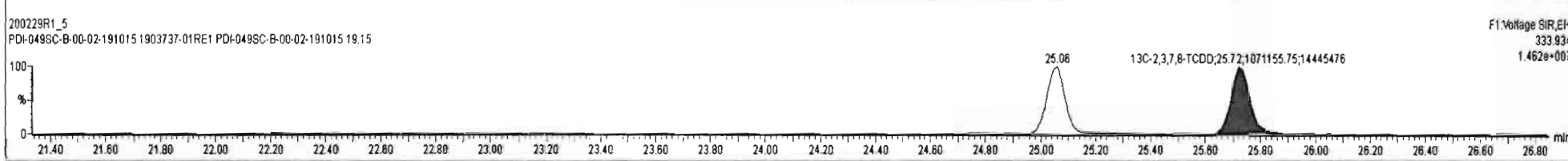
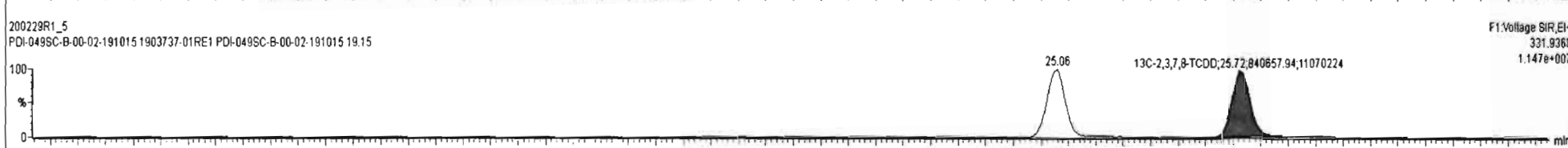
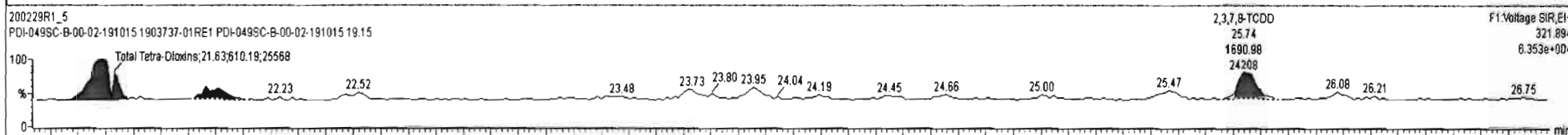
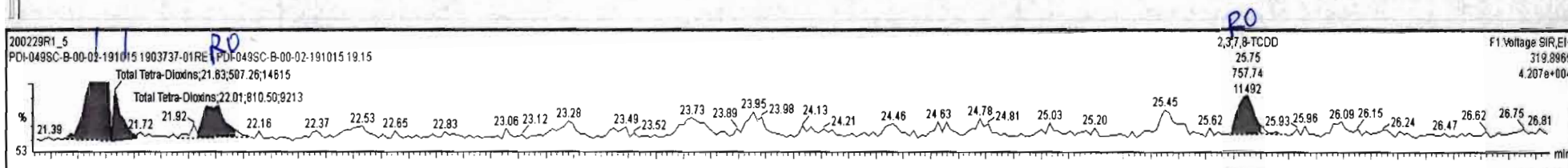


13C-2,3,7,8-TCDD



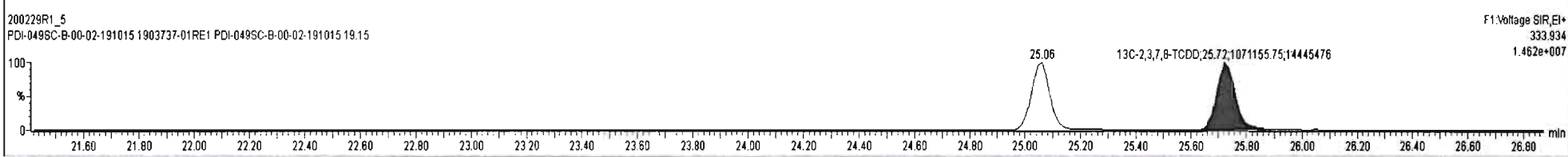
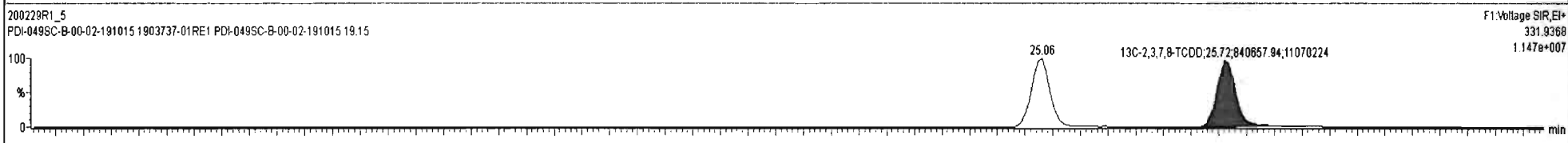
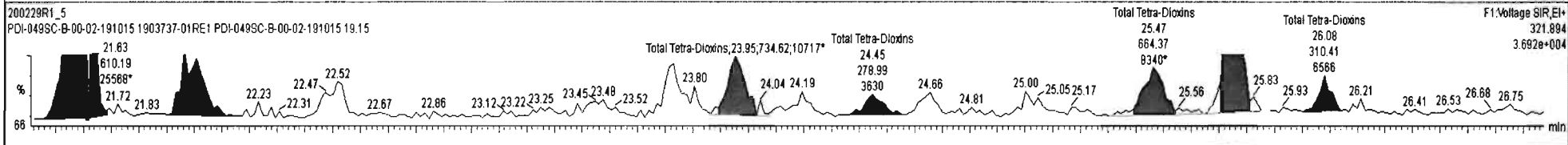
#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8881	10.011	24.62		0.000		NO	0.5537		0.183	1.024
40	Total Penta-Dioxins				0.9723	10.011	29.96		0.000		NO	1.536		0.0762	2.840
41	Total Hexa-Dioxins				0.9211	10.011	33.63		0.000		NO	18.26		0.151	18.98
42	Total Hamba. Dioxins				0.9734	10.011	27.64		0.000		NO	16.44		0.164	16.44

#	Name	Pred RT	RT	Int Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.57	2.405e3	2.831e3	0.770	0.85	NO	0.55373	0.55373
2	39 Total Tetra-Dioxins	24.62	21.63	5.073e2	6.102e2	0.770	0.83	NO	0.11818	0.00000
3	39 Total Tetra-Dioxins	24.62	22.01	8.105e2	8.970e2	0.770	0.90	YES	0.16790	0.00000
4	1 2,3,7,8-TCDD	25.75	25.75	7.577e2	1.691e3	0.770	0.45	YES	0.18421	0.00000



#	Name	Resp	RA	n/y	RRF	wt/Std	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9981	10.011	24.62		0.000		NO	0.7569		0.183	1.326
40	Total Penta-Dioxins				0.9723	10.011	29.96		0.000		NO	1.536		0.0762	2.840
41	Total Hexa-Dioxins				0.9211	10.011	33.63		0.000		NO	18.26		0.151	18.99
42	Total Menthyl Flavone				0.9774	10.011	37.64		0.000		NO	161.4		0.964	161.4

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Prod)	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	24.62	21.57	2.407e3	2.831e3	0.770	0.85	NO	0.55400	0.56397
2	Total Tetra-Dioxins	24.62	22.01	1.034e3	1.019e3	0.770	1.01	YES	0.18100	0.00000
3	Total Tetra-Dioxins	24.62	23.95	5.018e2	8.326e2	0.770	0.60	YES	0.12200	0.00000
4	Total Tetra-Dioxins	24.62	24.46	2.725e2	2.790e2	0.770	0.98	YES	0.052000	0.00000
5	Total Tetra-Dioxins	24.62	25.45	5.473e2	7.955e2	0.770	0.69	NO	0.14200	0.14202
6	1,2,3,7,8-TCDD	25.75	25.75	8.350e2	1.888e3	0.770	0.44	YES	0.20300	0.00000
7	Total Tetra-Dioxins	24.62	26.09	2.655e2	3.104e2	0.770	0.86	NO	0.061000	0.080911



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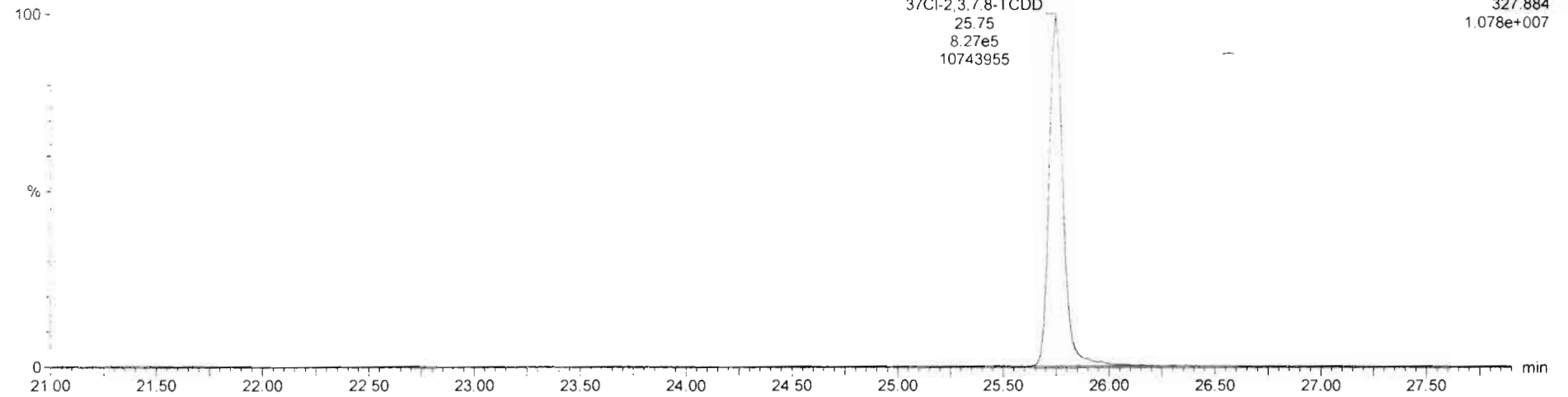
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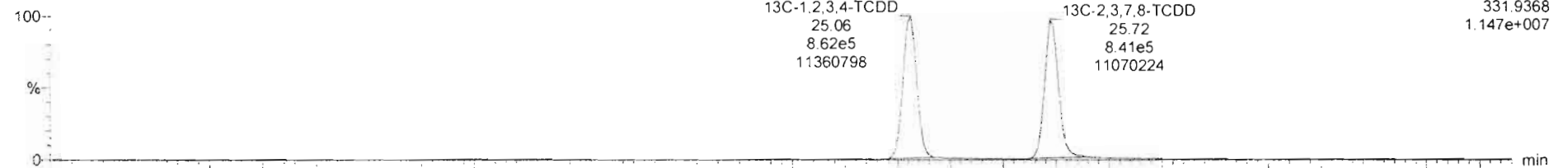
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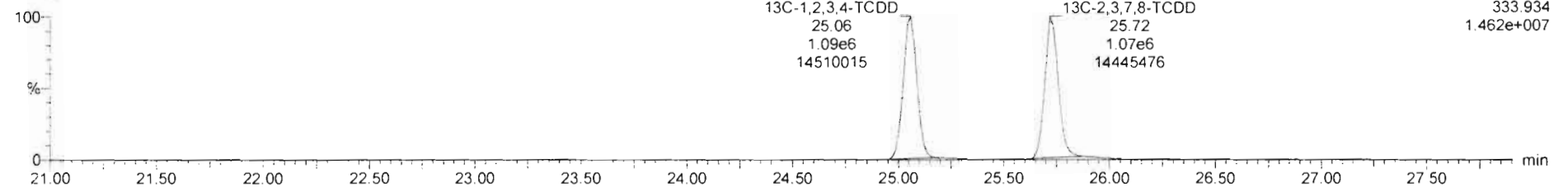


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200229R1_5



200229R1_5

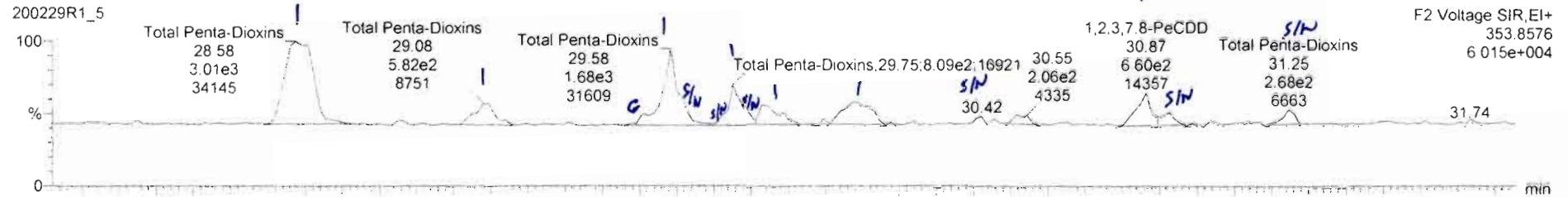


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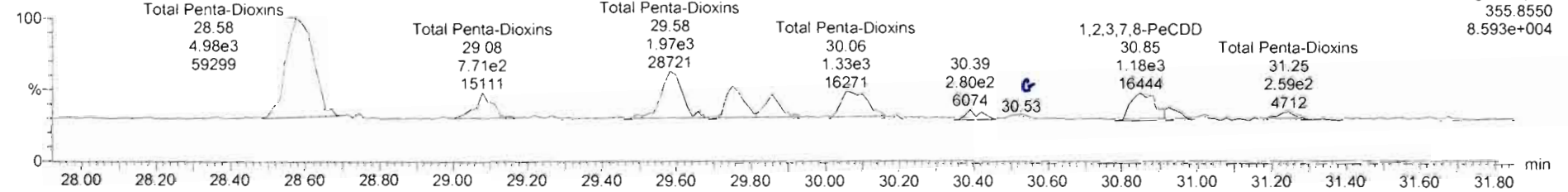
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1,2,3,7,8-PeCDD



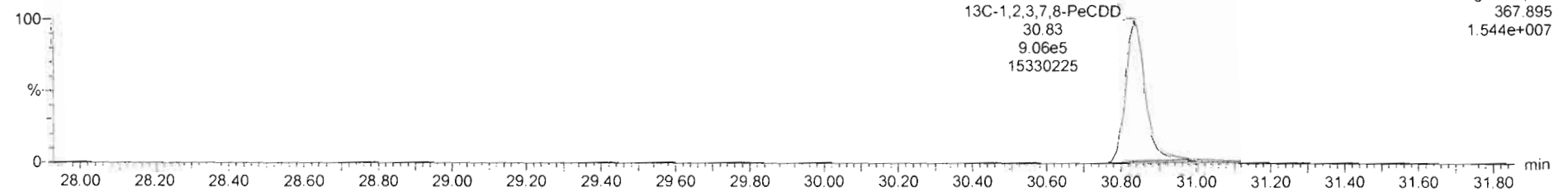
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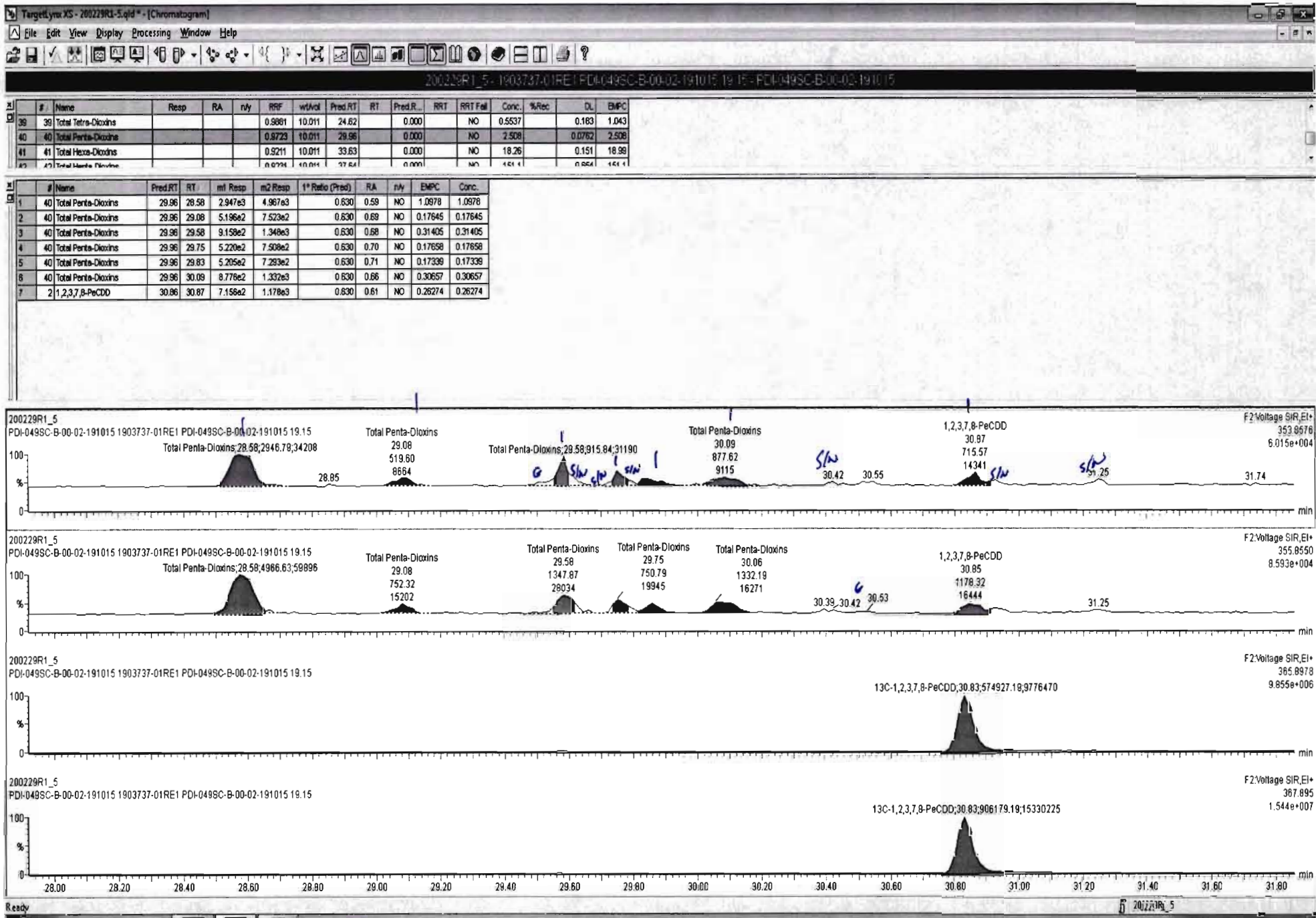


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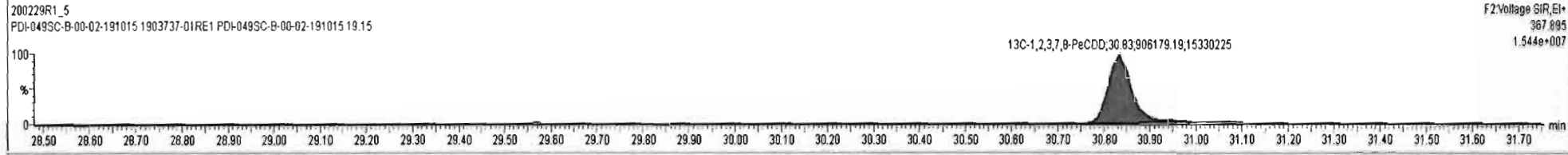
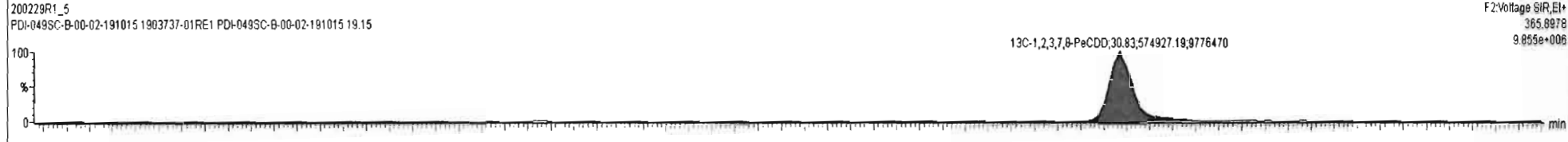
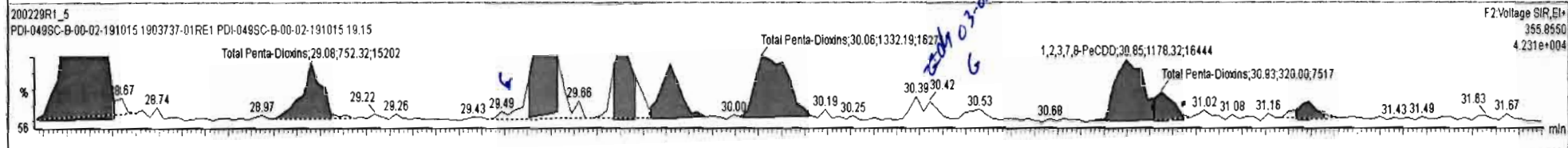
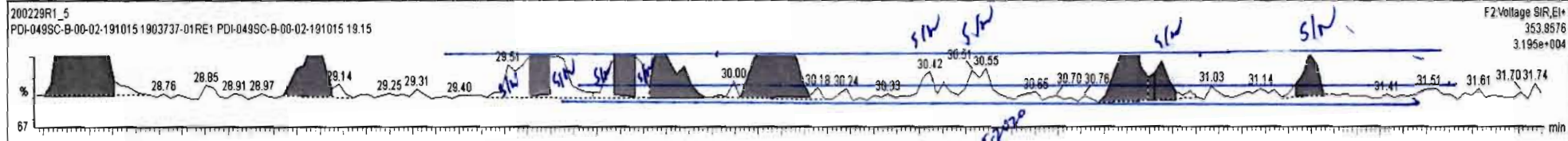




200229R1_5 - 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15 - PDI-049SC-B-00-02-191015

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fall	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.011	24.62		0.000		NO	0.5537	0.183	1.043	
40	Total Penta-Dioxins				0.9723	10.011	29.96		0.000		NO	2.958	0.0782	2.814	
41	Total Hexa-Dioxins				0.9211	10.011	33.63		0.000		NO	18.26	0.151	18.99	
42	Total Hepta-Dioxins				0.9724	10.011	37.64		0.000		NO	14.14	0.054	14.14	

#	Name	Pred.RT	RT	Int Resp	m2 Resp	I* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.96	28.58	2.947e3	4.967e3	0.630	0.59	NO	1.0978	1.0978
2	Total Penta-Dioxins	29.96	29.08	5.196e2	7.523e2	0.630	0.69	NO	0.17645	0.17645
3	Total Penta-Dioxins	29.96	29.58	8.972e2	1.311e3	0.630	0.68	NO	0.30637	0.30637
4	Total Penta-Dioxins	29.96	29.75	5.122e2	7.508e2	0.630	0.68	NO	0.17521	0.17521
5	Total Penta-Dioxins	29.96	29.83	5.205e2	7.293e2	0.630	0.71	NO	0.17339	0.17339
6	Total Penta-Dioxins	29.96	30.09	8.776e2	1.332e3	0.630	0.66	NO	0.30657	0.30657
7	1,2,3,7,8-PeCDD	30.86	30.87	7.156e2	1.178e3	0.630	0.61	NO	0.26274	0.26274
8	Total Penta-Dioxins	29.96	30.93	1.805e2	3.200e2	0.630	0.56	NO	0.069440	0.069440
9	Total Penta-Dioxins	29.96	31.25	2.321e2	2.014e2	0.630	1.15	YES	0.045541	0.00000



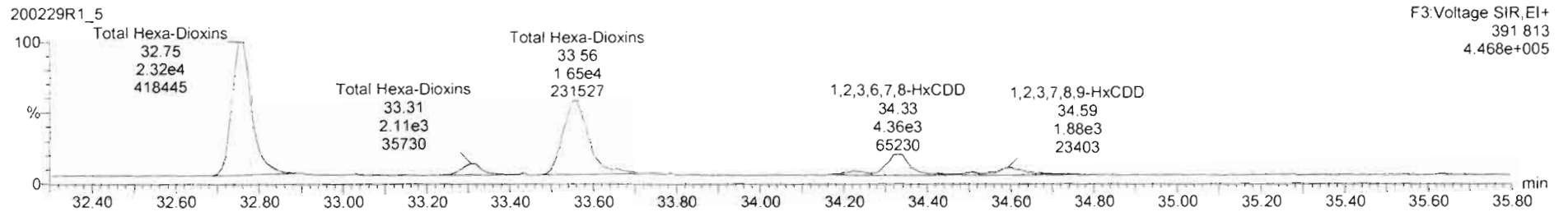
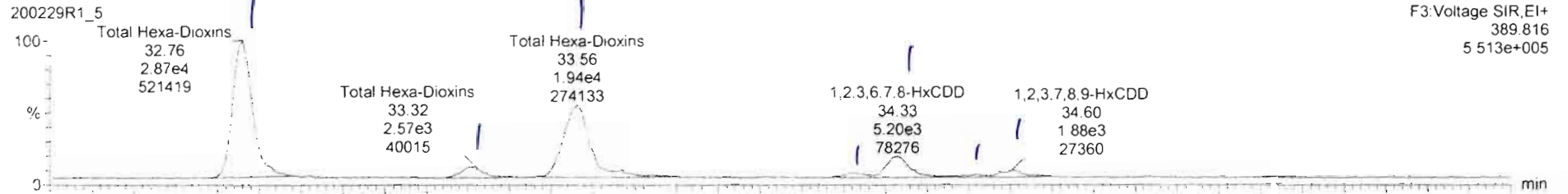
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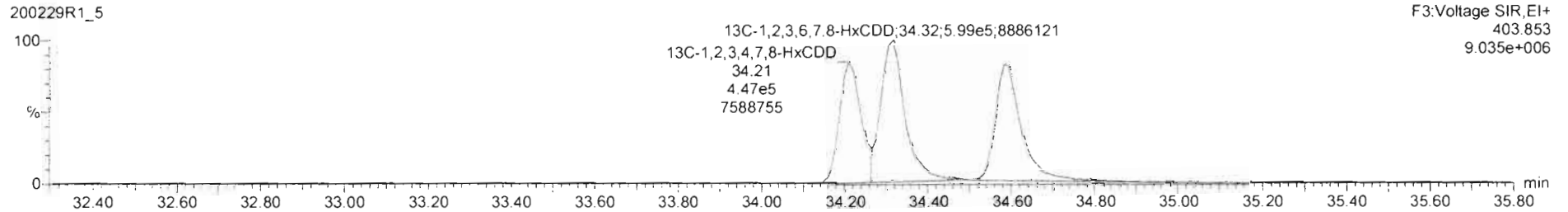
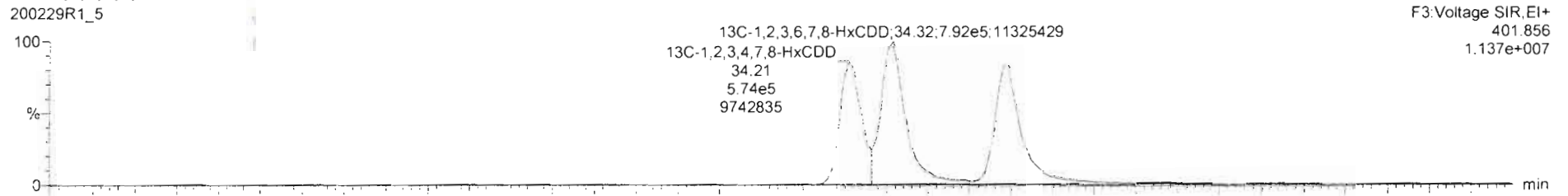
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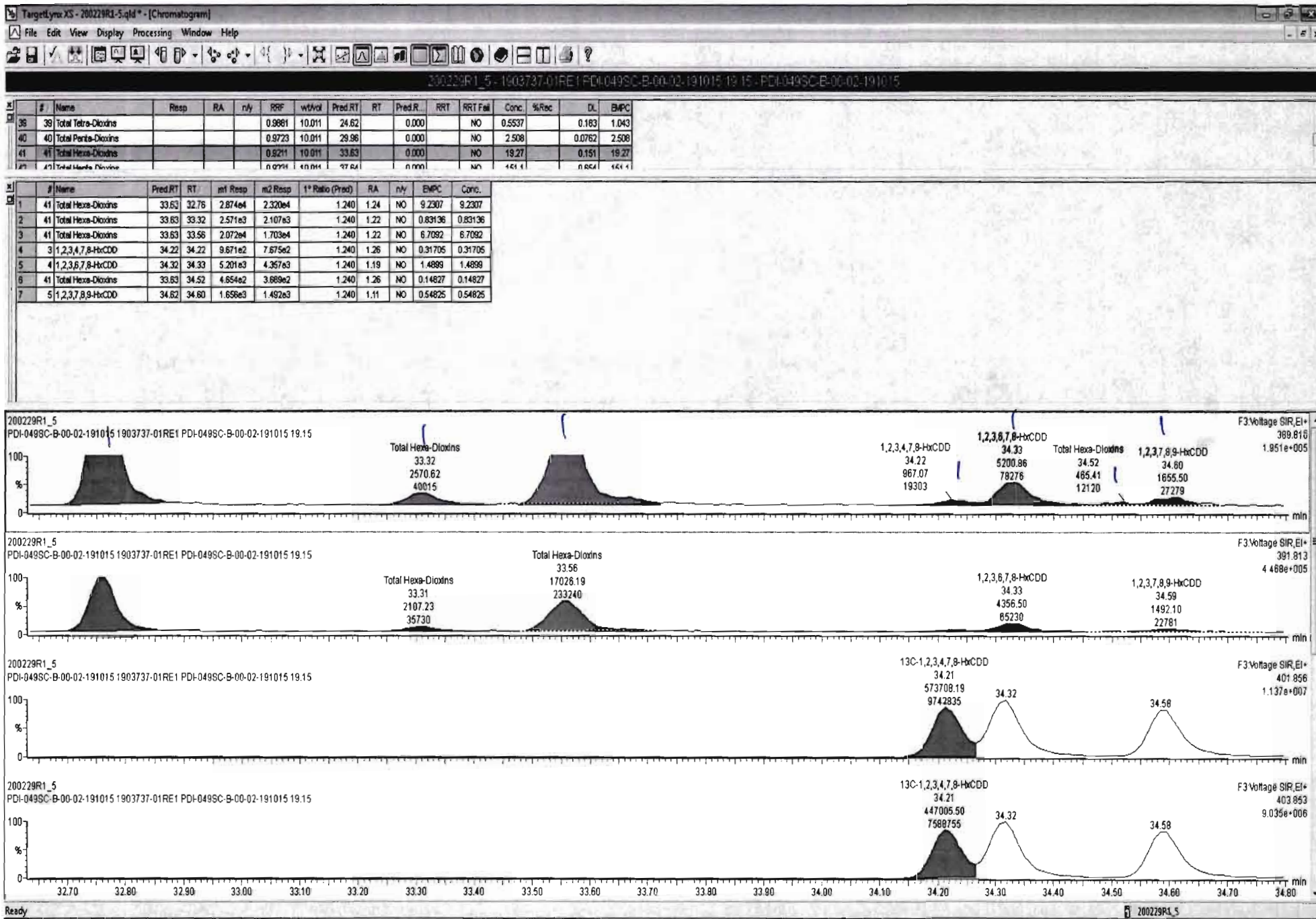
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1,2,3,4,7,8-HxCDD



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





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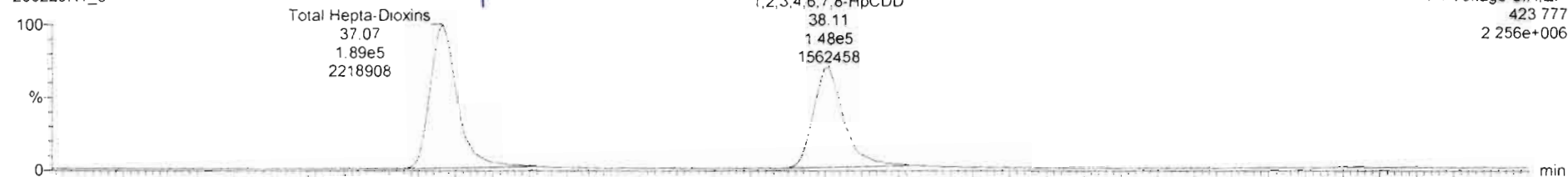
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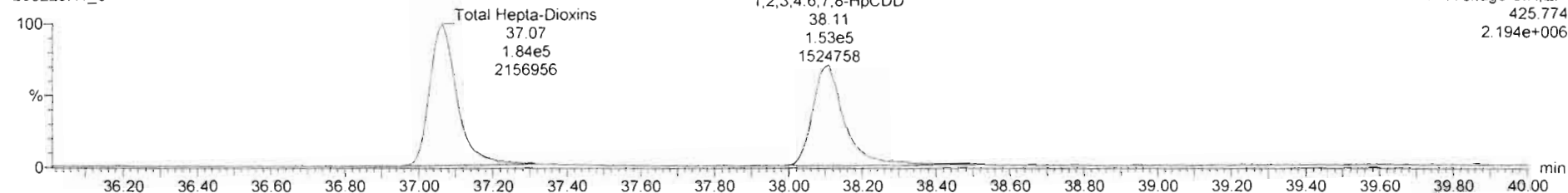
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1,2,3,4,6,7,8-HpCDD

200229R1_5

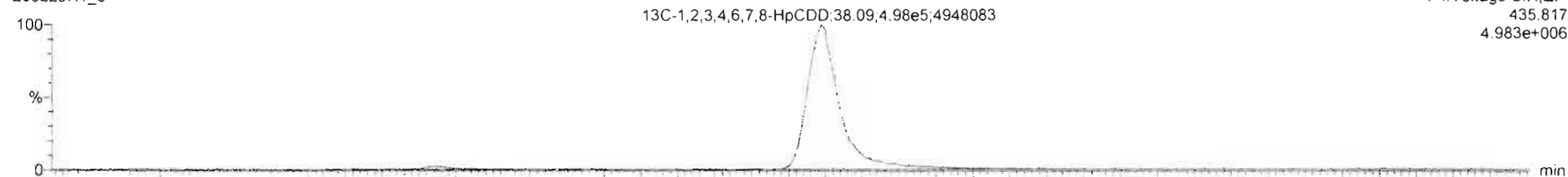


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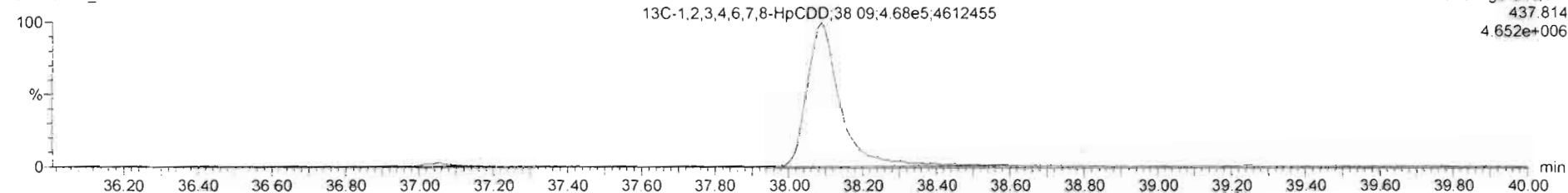


13C-1,2,3,4,6,7,8-HpCDD

200229R1_5



200229R1_5



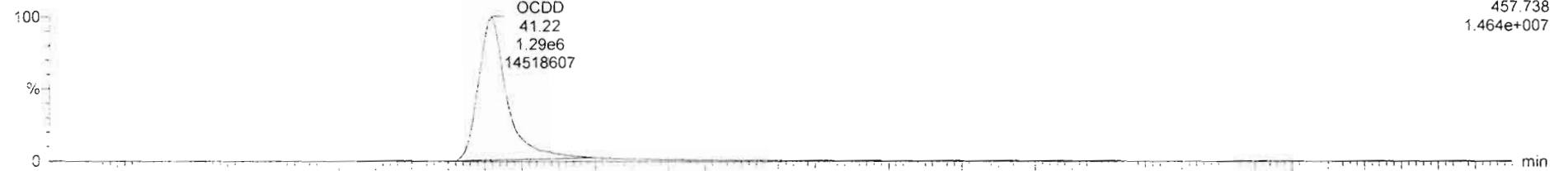
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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_5, Date: 29-Feb-2020, Time: 14:24:13, ID: 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

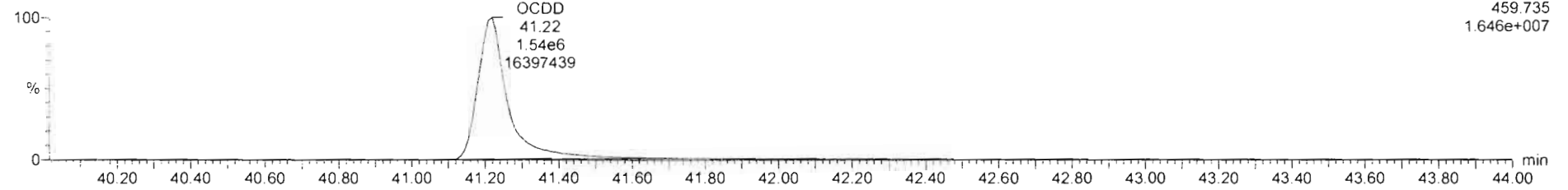
OCDD

200229R1_5



F5:Voltage SIR,EI+
457.738
1.464e+007

200229R1_5



F5:Voltage SIR,EI+
459.735
1.646e+007

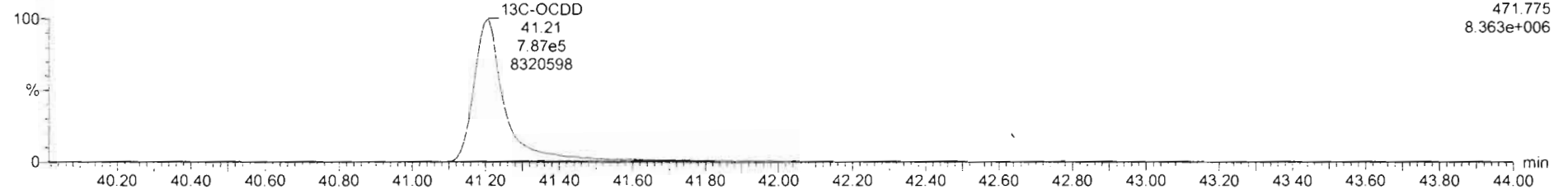
13C-OCDD

200229R1_5



F5:Voltage SIR,EI+
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7.579e+006

200229R1_5



F5:Voltage SIR,EI+
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8.363e+006

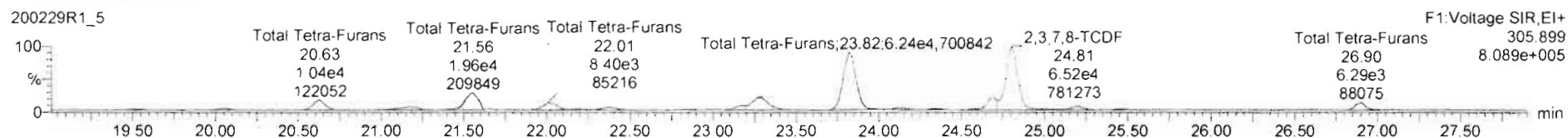
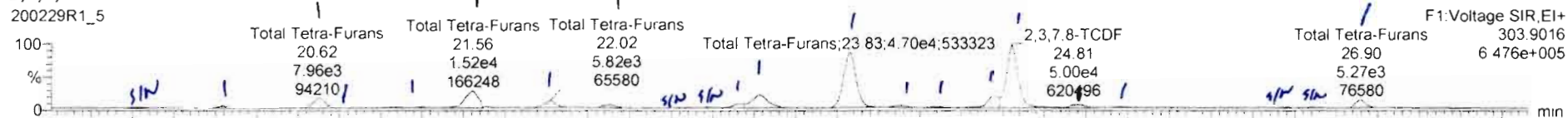
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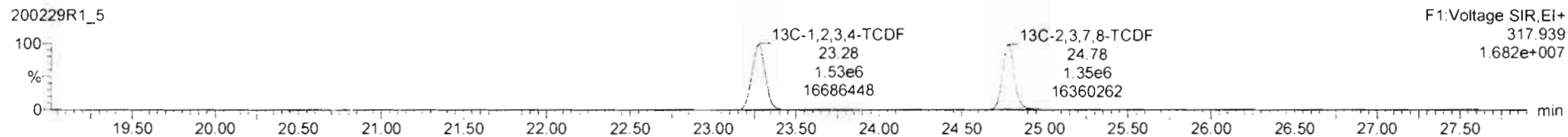
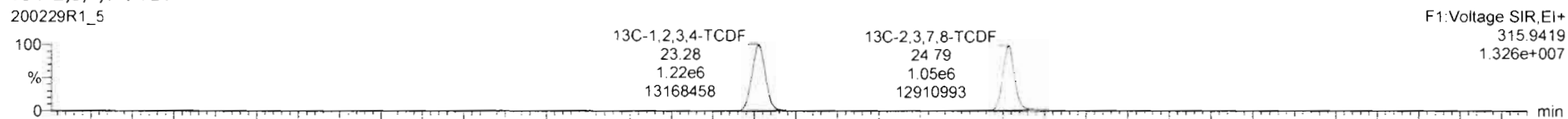
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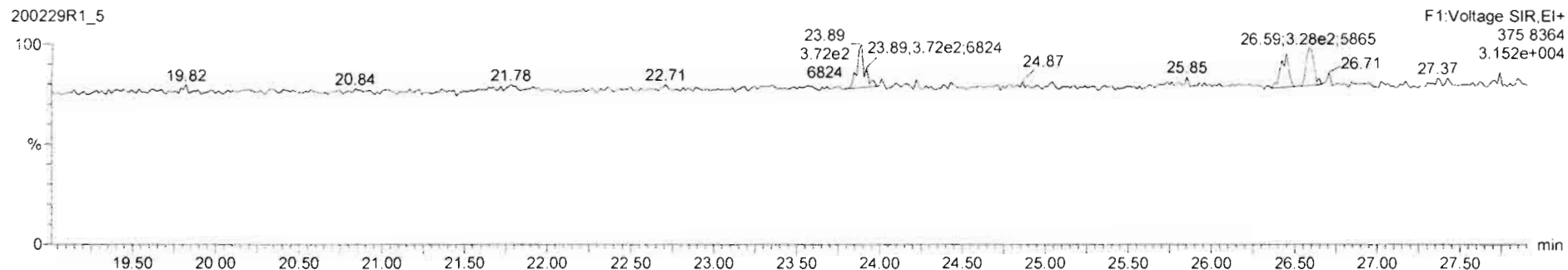
2,3,7,8-TCDF

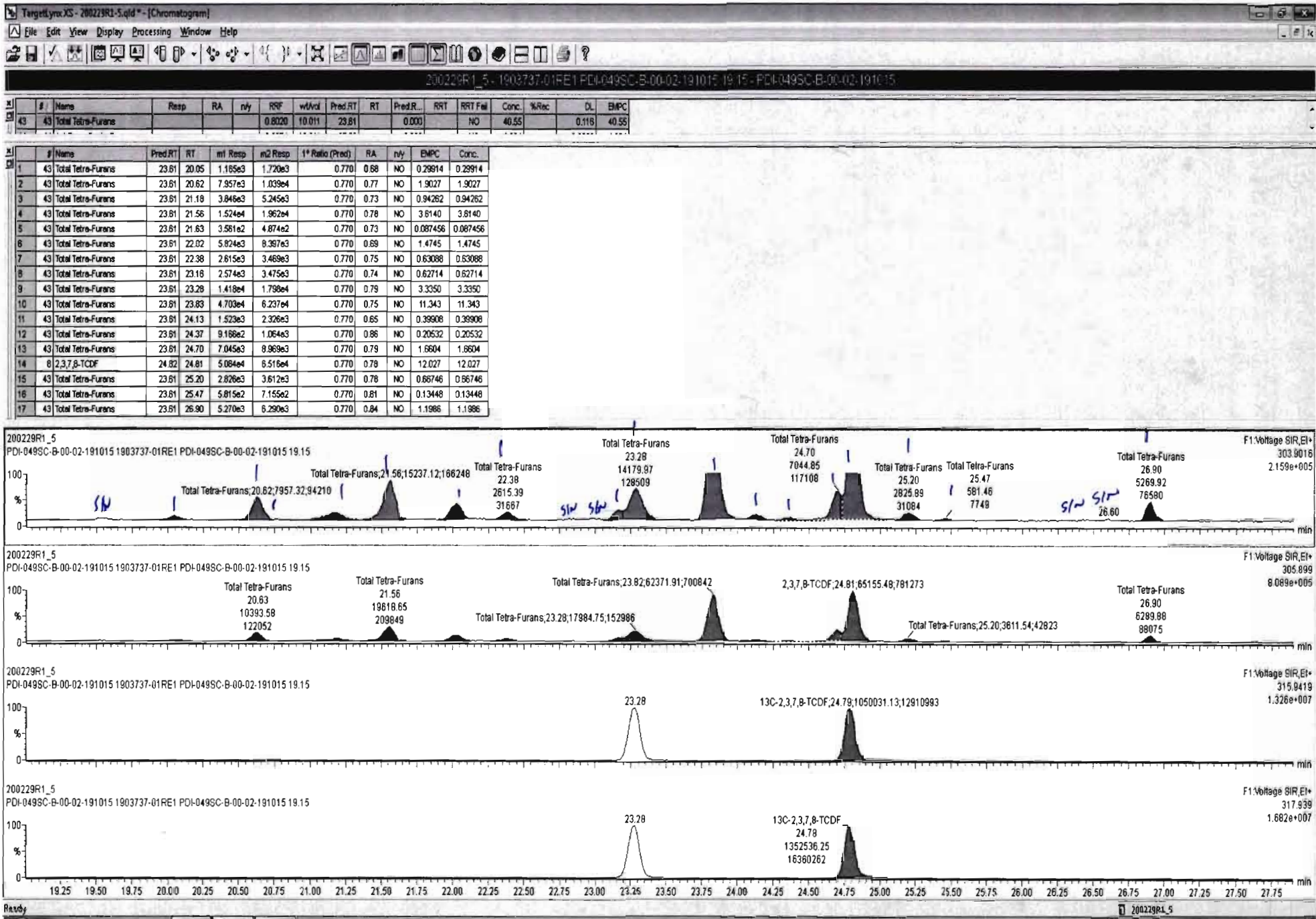


13C-2,3,7,8-TCDF



DPE1

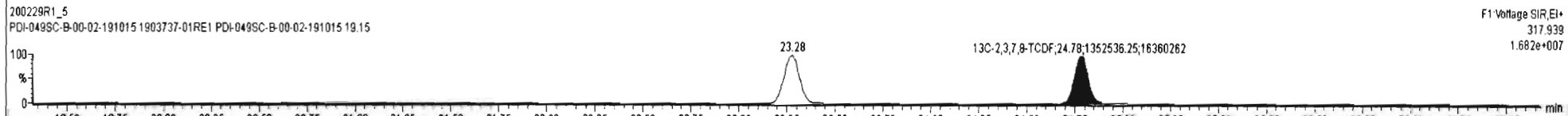
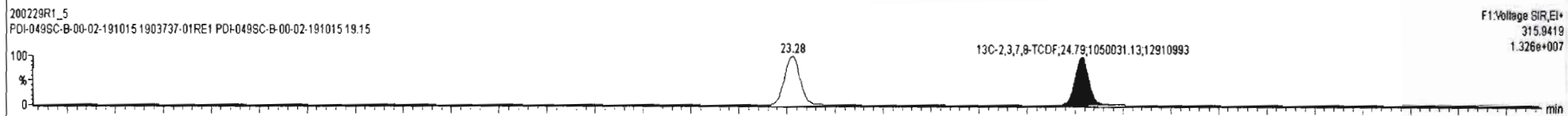
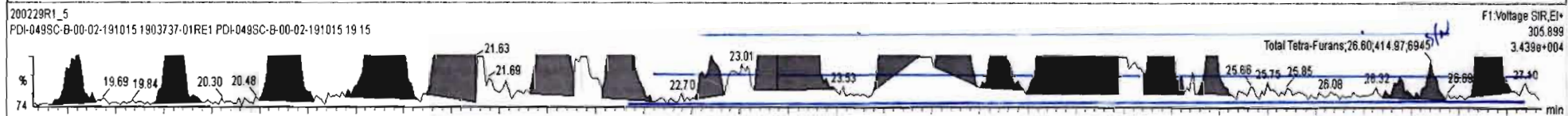
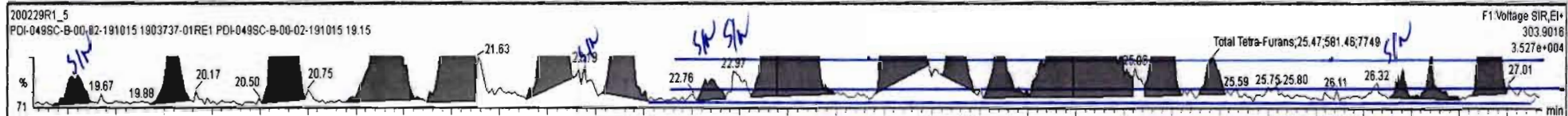




200229R1_5 - 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15 - PDI-049SC-B-00-02-191015

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	10.011	23.61		0.000		NO	38.85		0.118	40.08

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Prad)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.55	5.922e2	8.350e2	0.770	0.71	NO	0.14798	0.14798
2	43 Total Tetra-Furans	23.61	20.05	1.165e3	1.720e3	0.770	0.88	NO	0.29914	0.29914
3	43 Total Tetra-Furans	23.61	20.62	7.957e3	1.039e4	0.770	0.77	NO	1.9027	1.9027
4	43 Total Tetra-Furans	23.61	21.18	3.846e3	5.245e3	0.770	0.73	NO	0.94262	0.94262
5	43 Total Tetra-Furans	23.61	21.56	1.524e4	1.962e4	0.770	0.78	NO	3.6140	3.6140
6	43 Total Tetra-Furans	23.61	22.02	5.824e3	8.397e3	0.770	0.69	NO	1.4745	1.4745
7	43 Total Tetra-Furans	23.61	22.38	2.615e3	3.469e3	0.770	0.75	NO	0.63088	0.63088
8	43 Total Tetra-Furans	23.61	22.85	3.780e2	2.400e2	0.770	1.58	YES	0.044038	0.00000
9	43 Total Tetra-Furans	23.61	23.18	2.574e3	3.475e3	0.770	0.74	NO	0.62714	0.62714
10	43 Total Tetra-Furans	23.61	23.26	1.418e4	1.799e4	0.770	0.79	NO	3.3350	3.3350
11	43 Total Tetra-Furans	23.61	23.83	4.703e4	6.237e4	0.770	0.75	NO	11.343	11.343
12	43 Total Tetra-Furans	23.61	24.13	1.523e3	2.326e3	0.770	0.65	NO	0.39908	0.39908
13	43 Total Tetra-Furans	23.61	24.37	1.037e3	1.180e3	0.770	0.89	YES	0.21283	0.00000
14	43 Total Tetra-Furans	23.61	24.70	9.249e3	1.007e4	0.770	0.92	YES	1.8473	0.00000
15	8 2,3,7,8-TCDF	24.82	24.81	4.988e4	6.516e4	0.770	0.77	NO	11.938	11.938
16	43 Total Tetra-Furans	23.61	25.20	2.826e3	3.612e3	0.770	0.78	NO	0.66746	0.66746
17	43 Total Tetra-Furans	23.61	25.47	5.815e2	7.155e2	0.770	0.81	NO	0.13448	0.13448
18	43 Total Tetra-Furans	23.61	26.45	2.841e2	2.741e2	0.770	1.04	YES	0.050299	0.00000
19	43 Total Tetra-Furans	23.61	26.60	4.663e2	4.150e2	0.770	1.12	YES	0.076157	0.00000
20	43 Total Tetra-Furans	23.61	26.90	5.270e3	6.280e3	0.770	0.84	NO	1.1986	1.1986



Dataset: Untitled

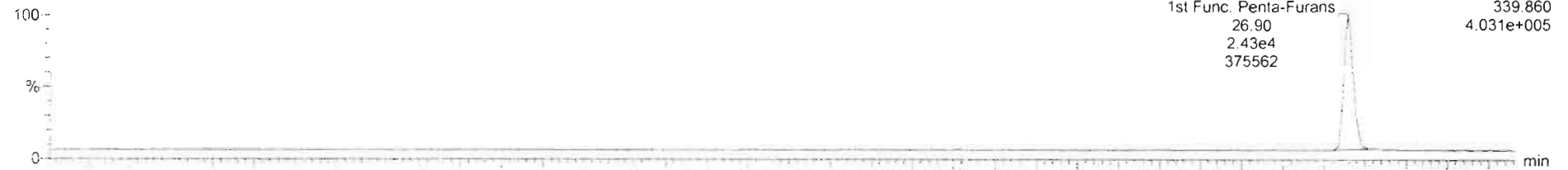
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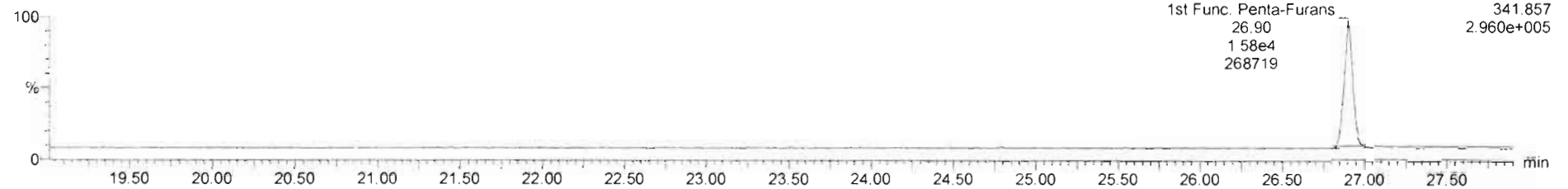
Name: 200229R1_5, Date: 29-Feb-2020, Time: 14:24:13, ID: 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

1st Func. Penta-Furans

200229R1_5

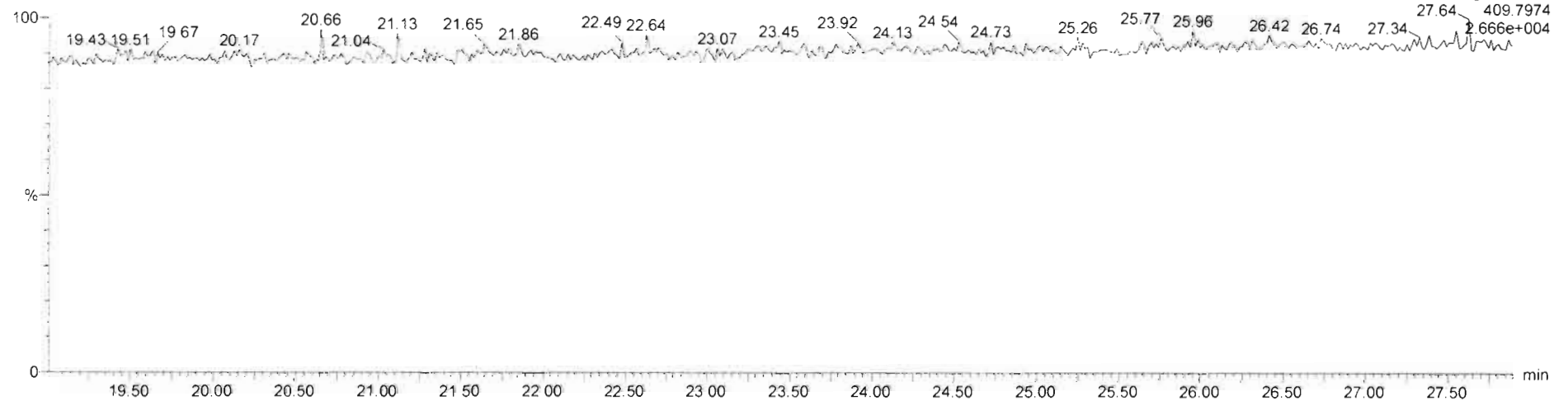


200229R1_5



DPE6

200229R1_5

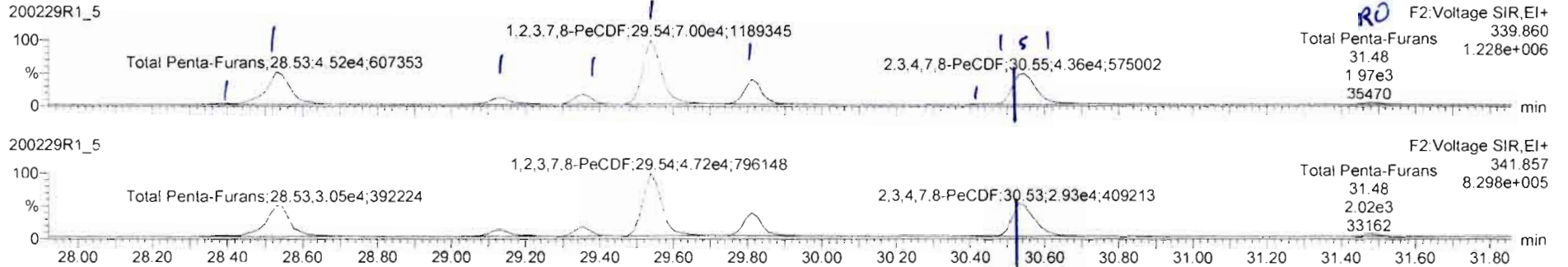


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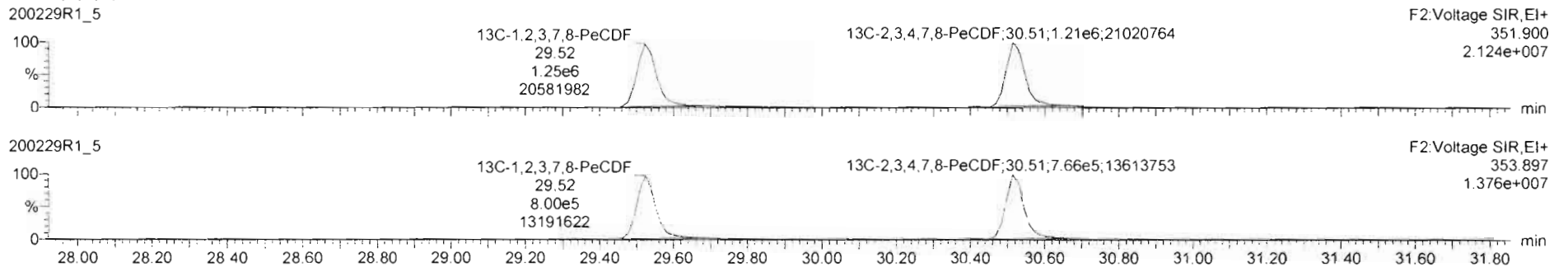
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_5, Date: 29-Feb-2020, Time: 14:24:13, ID: 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

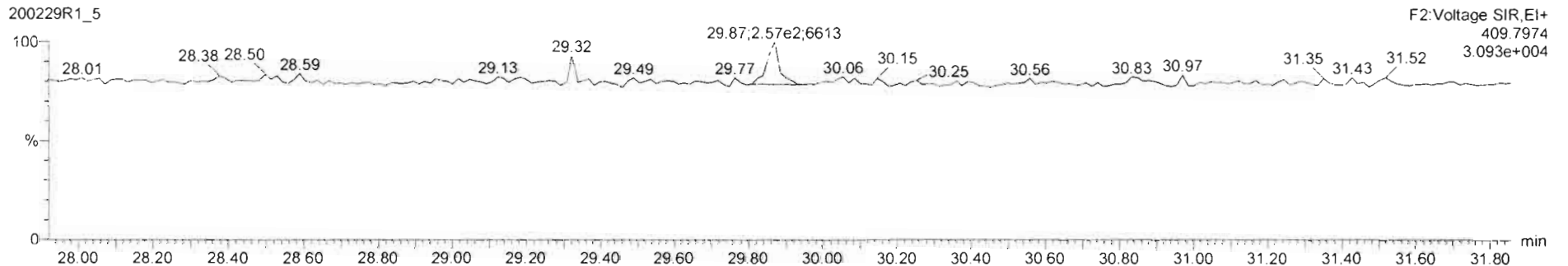
1,2,3,7,8-PeCDF



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

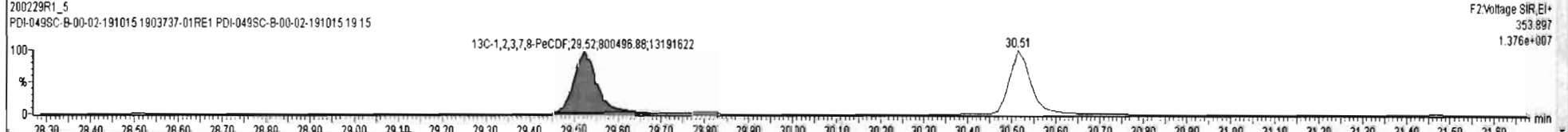
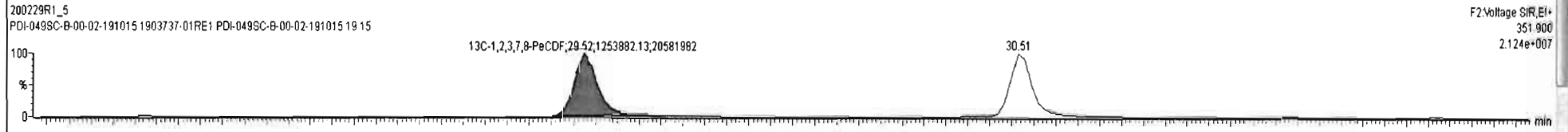
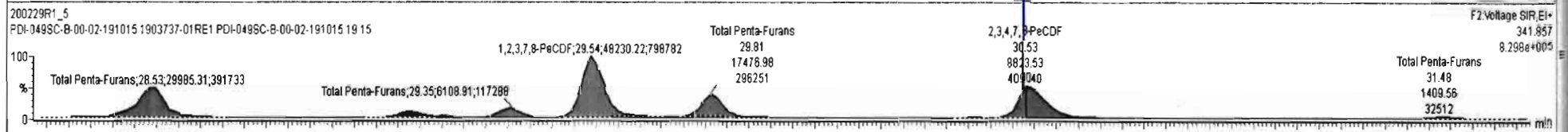
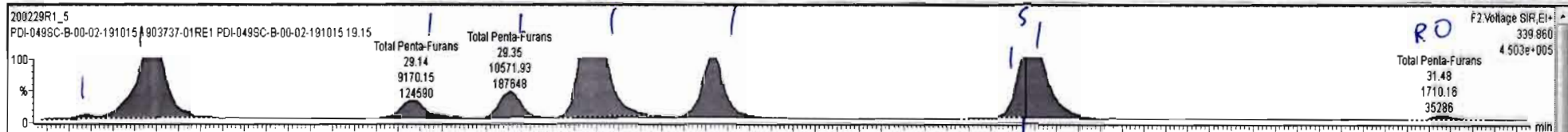


DPE2



#	Name	Resp	RA	n/y	RRF	wt/rd	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.011	27.09		0.000		NO	4.384		0.0303	4.384

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	29.27	28.39	1.689e3	9.564e2	1.550	1.77	NO	0.28929	0.28929
2	Total Penta-Furans	29.27	29.53	4.494e4	2.999e4	1.550	1.50	NO	8.1941	8.1941
3	Total Penta-Furans	29.27	29.14	9.170e3	5.965e3	1.550	1.54	NO	1.6552	1.6552
4	Total Penta-Furans	29.27	29.35	1.057e4	8.109e3	1.550	1.73	NO	1.8243	1.8243
5	1,2,3,7,8-PeCDF	29.54	29.54	7.155e4	4.823e4	1.550	1.48	NO	12.837	12.837
6	Total Penta-Furans	29.27	29.81	2.522e4	1.748e4	1.550	1.44	NO	4.6699	4.6699
7	Total Penta-Furans	29.27	30.44	4.869e2	3.416e2	1.550	1.43	NO	0.090607	0.090607
8	10 2,3,4,7,8-PeCDF	30.53	30.53	1.209e4	8.824e3	1.550	1.37	NO	2.2262	2.2262
9	Total Penta-Furans	29.27	30.55	3.137e4	2.053e4	1.550	1.53	NO	5.6758	5.6758
10	Total Penta-Furans	29.27	31.48	1.710e3	1.410e3	1.550	1.21	YES	0.30769	0.00000



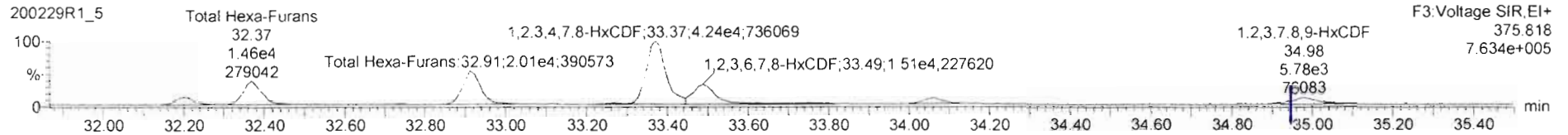
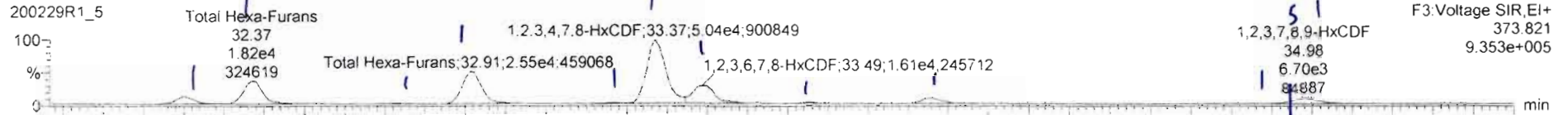
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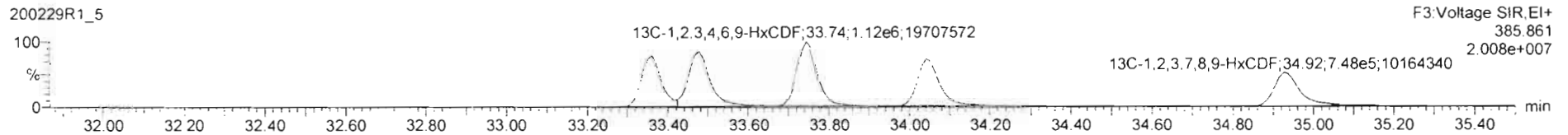
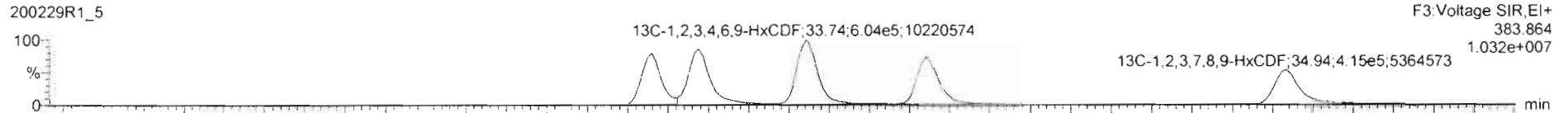
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Name: 200229R1_5, Date: 29-Feb-2020, Time: 14:24:13, ID: 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

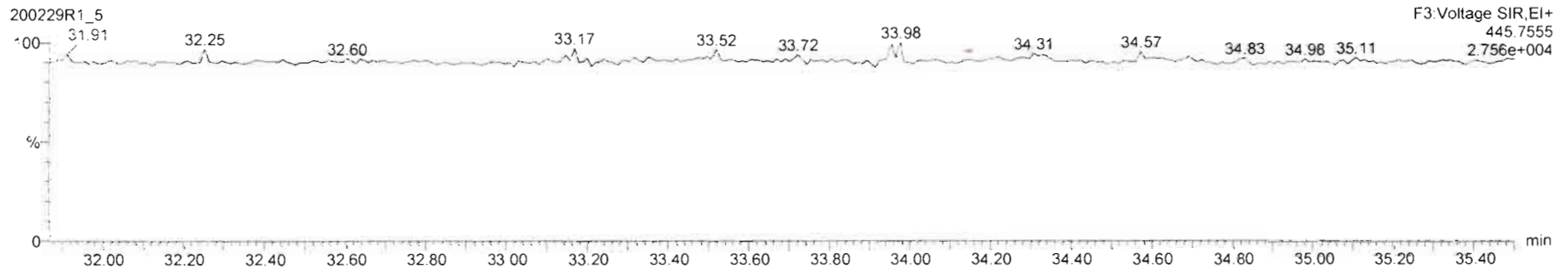
1,2,3,4,7,8-HxCDF



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

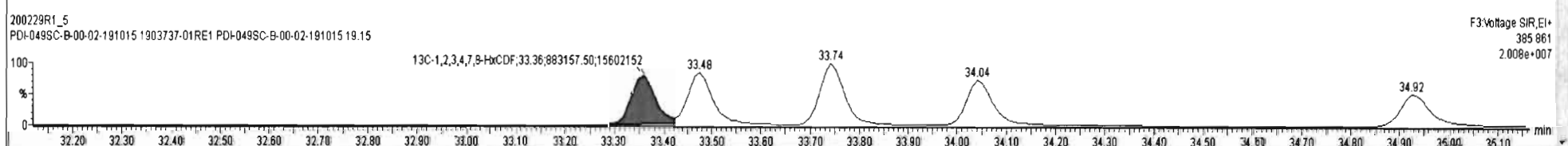
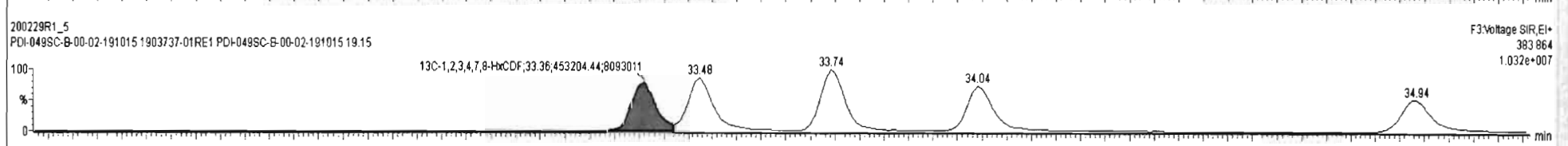
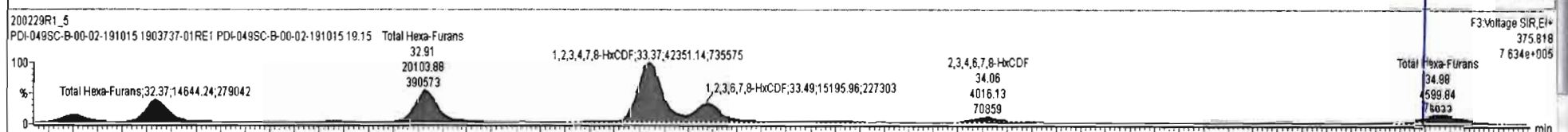
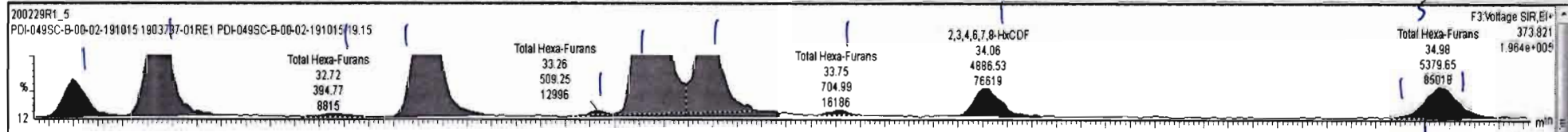


DPE3



#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.8982	10.011	33.58		0.000		NO	38.58		0.147	38.73

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.58	32.20	5.557e3	4.855e3	1.240	1.14	NO	1.7025	1.7025
2	46 Total Hexa-Furans	33.58	32.37	1.821e4	1.464e4	1.240	1.24	NO	5.3725	5.3725
3	46 Total Hexa-Furans	33.58	32.72	3.948e2	3.099e2	1.240	1.27	NO	0.11523	0.11523
4	46 Total Hexa-Furans	33.58	32.91	2.549e4	2.010e4	1.240	1.27	NO	7.4548	7.4548
5	46 Total Hexa-Furans	33.58	33.26	5.092e2	6.673e2	1.240	0.76	YES	0.15042	0.00000
6	11 1,2,3,4,7,8-HxCDF	33.36	33.37	5.098e4	4.235e4	1.240	1.20	NO	16.181	16.181
7	12 1,2,3,6,7,8-HxCDF	33.49	33.49	1.805e4	1.520e4	1.240	1.19	NO	4.9834	4.9834
8	46 Total Hexa-Furans	33.58	33.75	7.050e2	4.966e2	1.240	1.42	NO	0.19648	0.19648
9	13 2,3,4,6,7,8-HxCDF	34.08	34.06	4.887e3	4.016e3	1.240	1.22	NO	1.4575	1.4575
10	14 1,2,3,7,8,9-HxCDF	34.94	34.96	1.279e3	1.126e3	1.240	1.14	NO	0.48174	0.48174
11	46 Total Hexa-Furans	33.58	34.98	5.380e3	4.600e3	1.240	1.17	NO	1.6318	1.6318

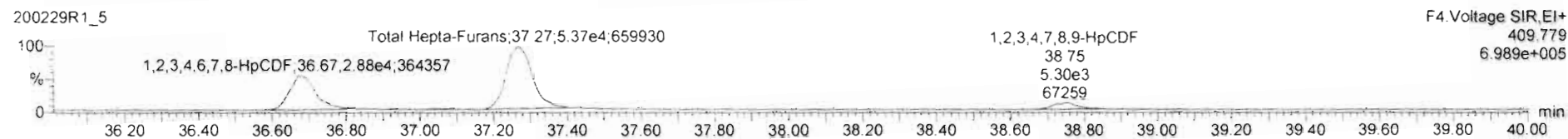
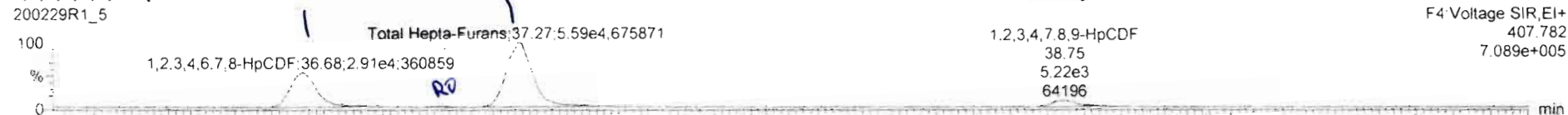


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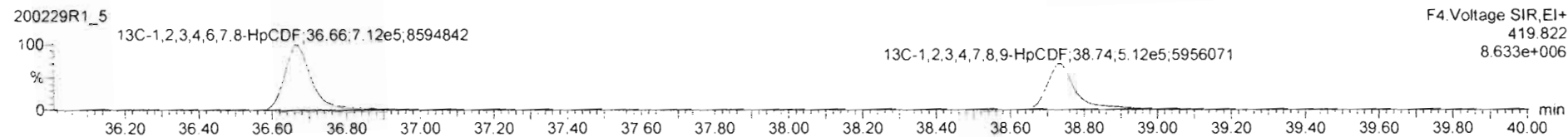
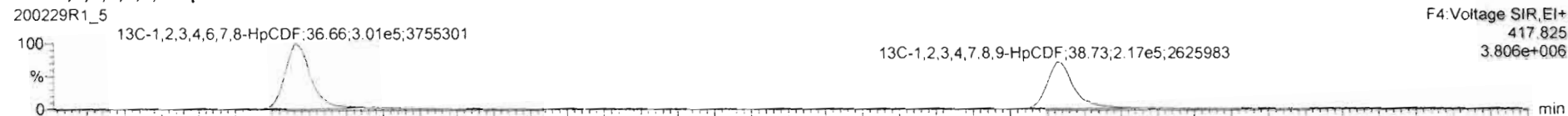
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_5, Date: 29-Feb-2020, Time: 14:24:13, ID: 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

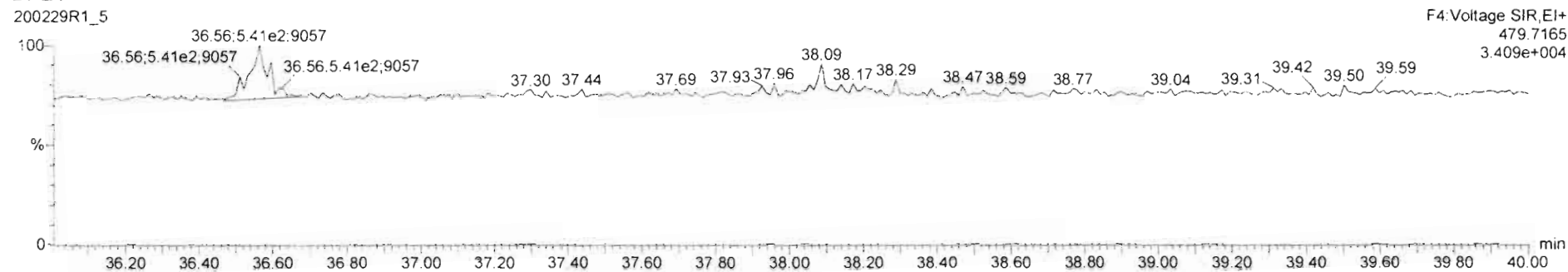
1,2,3,4,6,7,8-HpCDF



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



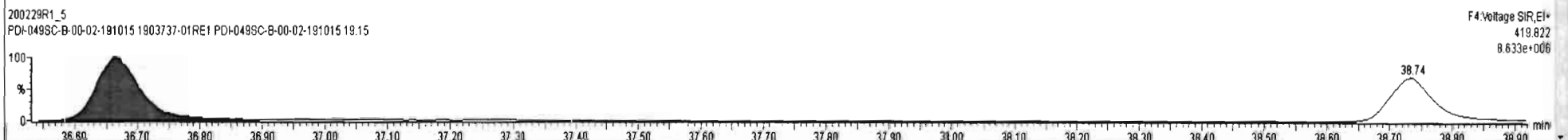
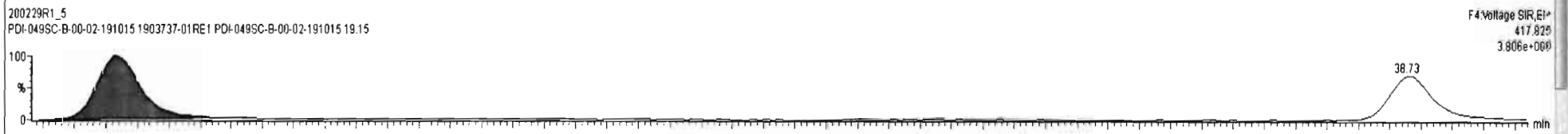
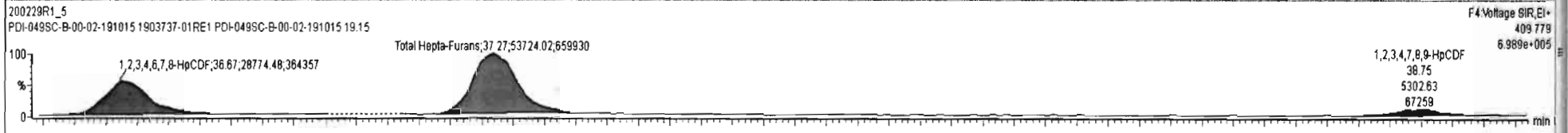
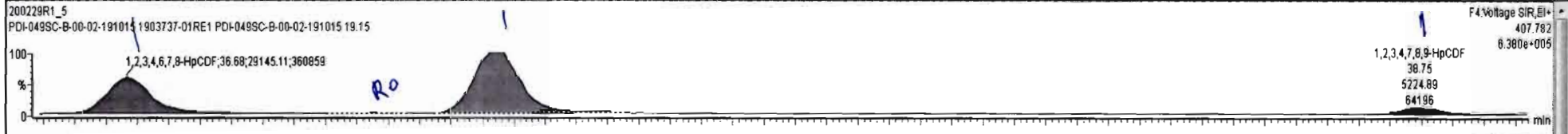
DPE4



200229R1_5 - 1903737-01RE1 PDI-049SC-B-00-02-191015 19:15 - PDI-049SC-B-00-02-191015

#	Name	Resp	RA	n/y	R/F	w/Vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMFC
47	Total Hepta-Furans					0.8511	10.011	37.83		0.000		NO	45.59	0.272	45.83

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMFC	Conc.
15	1,2,3,4,6,7,8-HpCDF	36.70	36.68	2.915e4	2.877e4	1.040	1.01	NO	13.420	13.420
2	Total Hepta-Furans	37.83	37.08	5.667e2	4.399e2	1.040	1.29	YES	0.24180	0.00000
3	Total Hepta-Furans	37.83	37.27	5.474e4	5.372e4	1.040	1.02	NO	29.228	29.228
4	1,2,3,4,7,8,9-HpCDF	38.73	38.75	5.225e3	5.303e3	1.040	0.99	NO	2.9436	2.9436



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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

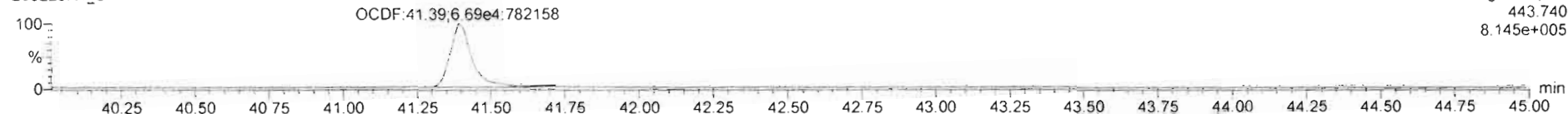
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OCDF

200229R1_5

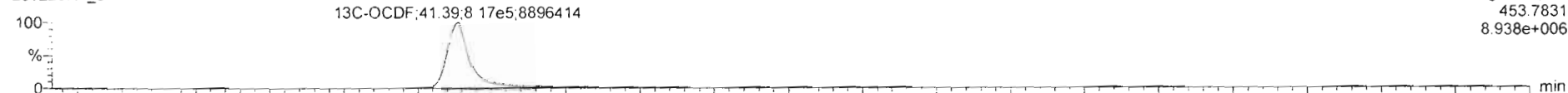


200229R1_5

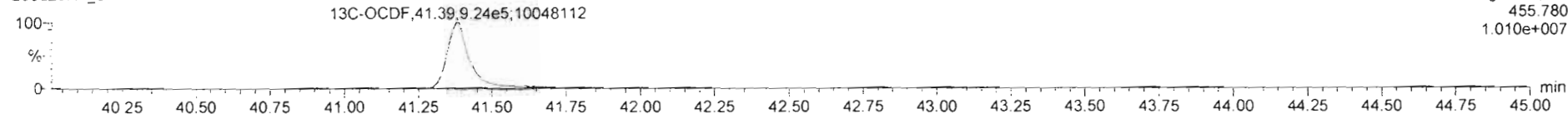


13C-OCDF

200229R1_5

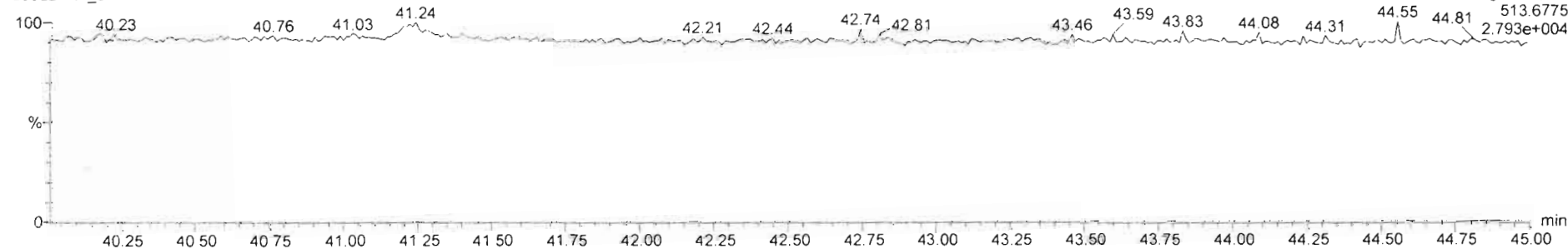


200229R1_5



DPE5

200229R1_5

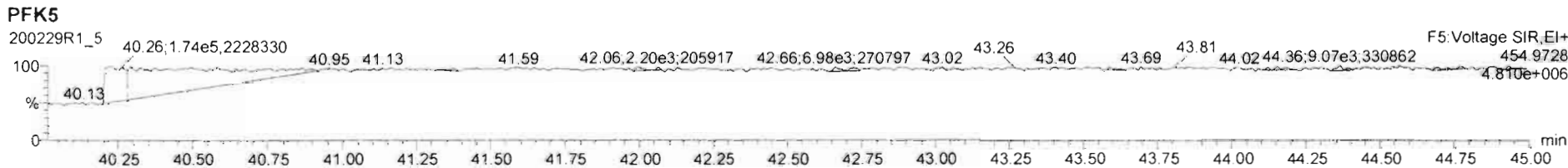
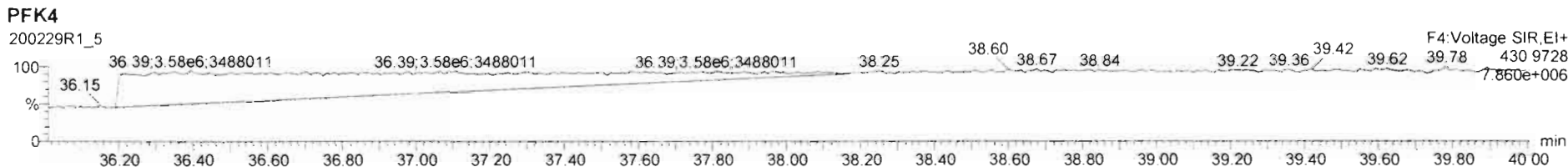
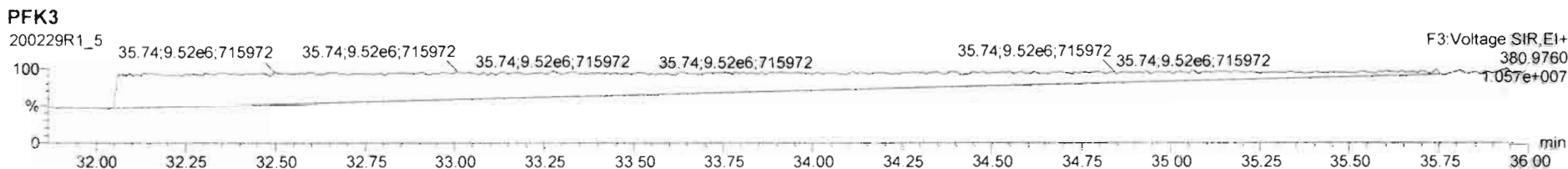
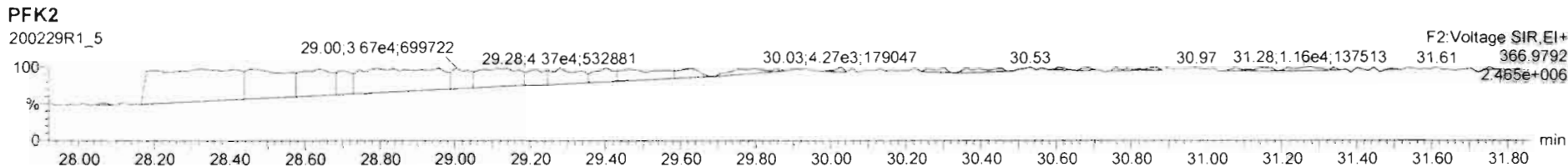
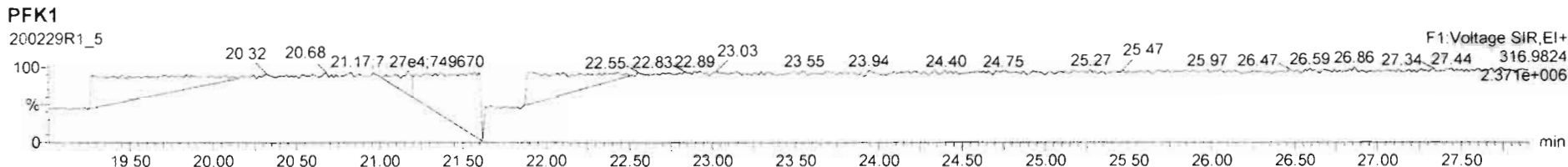


Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_5, Date: 29-Feb-2020, Time: 14:24:13, ID: 1903737-01RE1 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015



Dataset: U:\VG12.PRO\Results\200229R1\200229R1-6a.qld

Last Altered: Friday, March 06, 2020 09:06:10 Pacific Standard Time

Printed: Friday, March 06, 2020 09:12:51 Pacific Standard Time

dy 03-06-2020 *07 03/16/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R1_6, Date: 29-Feb-2020, Time: 15:11:38, ID: 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65, Description: PDI-049SC-B-02-04-191015

#	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	1347.330	0.576	YES	0.988	10.010	25.75	25.75	1.00	1.00	NO	0.1818		0.0997	0.1275
2	2 1,2,3,7,8-PeCDD	1556.296	0.608	NO	0.972	10.010	30.86	30.85	1.00	1.00	NO	0.2176		0.0898	0.2176
3	3 1,2,3,4,7,8-HxCDD	2295.745	1.418	NO	1.07	10.010	34.21	34.22	1.00	1.00	NO	0.4067		0.139	0.4067
4	4 1,2,3,6,7,8-HxCDD	12282.549	1.253	NO	0.921	10.010	34.31	34.32	1.00	1.00	NO	1.882		0.146	1.882
5	5 1,2,3,7,8,9-HxCDD	1625.279	0.956	YES	0.918	10.010	34.57	34.57	1.00	1.00	NO	0.2752		0.173	0.2430
6	6 1,2,3,4,6,7,8-HpCDD	374513.172	1.031	NO	0.923	10.010	38.10	38.10	1.00	1.00	NO	80.27		0.761	80.27
7	7 OCDD	4222733.7...	0.832	NO	0.975	10.010	41.19	41.20	1.00	1.00	NO	958.6		0.799	958.6
8	8 2,3,7,8-TCDF	326352.829	0.755	NO	0.802	10.010	24.82	24.81	1.00	1.00	NO	35.71	(32.6)	0.0988	35.71
9	9 1,2,3,7,8-PeCDF	492941.266	1.554	NO	0.907	10.010	29.54	29.54	1.00	1.00	NO	53.69		0.201	53.69
10	10 2,3,4,7,8-PeCDF	243475.250	1.550	NO	0.952	10.010	30.55	30.53	1.00	1.00	NO	26.38		0.186	26.38
11	11 1,2,3,4,7,8-HxCDF	339945.828	1.215	NO	0.862	10.010	33.35	33.36	1.00	1.00	NO	56.80		0.167	56.80
12	12 1,2,3,6,7,8-HxCDF	110325.109	1.208	NO	0.841	10.010	33.48	33.48	1.00	1.00	NO	15.87		0.163	15.87
13	13 2,3,4,6,7,8-HxCDF	24143.582	1.221	NO	0.898	10.010	34.06	34.05	1.00	1.00	NO	3.866		0.180	3.866
14	14 1,2,3,7,8,9-HxCDF	6426.106	1.197	NO	0.858	10.010	34.92	34.95	1.00	1.00	NO	1.210		0.254	1.210
15	15 1,2,3,4,6,7,8-HpCDF	113899.043	1.020	NO	0.851	10.010	36.70	36.67	1.00	1.00	NO	24.57		0.269	24.57
16	16 1,2,3,4,7,8,9-HpCDF	25582.892	0.974	NO	0.980	10.010	38.72	38.73	1.00	1.00	NO	6.613		0.322	6.613
17	17 OCDF	208692.906	0.821	NO	0.806	10.010	41.37	41.39	1.00	1.00	NO	50.86		0.218	50.86
18	18 13C-2,3,7,8-TCDD	1795011.2...	0.776	NO	1.20	10.010	25.71	25.72	1.03	1.03	NO	148.8	74.5	0.162	
19	19 13C-1,2,3,7,8-PeCDD	1469434.8...	0.640	NO	0.967	10.010	30.84	30.83	1.23	1.23	NO	151.0	75.6	0.147	
20	20 13C-1,2,3,4,7,8-HxCDD	1053325.9...	1.268	NO	0.874	10.010	34.20	34.20	1.01	1.01	NO	130.2	65.2	0.295	
21	21 13C-1,2,3,6,7,8-HxCDD	1415878.3...	1.285	NO	1.05	10.010	34.31	34.31	1.02	1.02	NO	146.3	73.2	0.247	
22	22 13C-1,2,3,7,8,9-HxCDD	1285076.9...	1.329	NO	0.974	10.010	34.61	34.57	1.03	1.02	NO	142.5	71.3	0.265	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1009983.4...	1.067	NO	0.747	10.010	38.18	38.09	1.13	1.13	NO	146.0	73.1	0.359	
24	24 13C-OCDD	1806303.6...	0.866	NO	0.707	10.010	41.09	41.19	1.22	1.22	NO	276.2	69.1	0.405	
25	25 13C-2,3,7,8-TCDF	2276597.1...	0.783	NO	1.07	10.010	24.89	24.79	0.99	0.99	NO	149.7	74.9	0.258	
26	26 13C-1,2,3,7,8-PeCDF	2021911.0...	1.558	NO	1.00	10.010	29.47	29.52	1.18	1.18	NO	141.4	70.8	0.378	
27	27 13C-2,3,4,7,8-PeCDF	1938196.4...	1.573	NO	0.962	10.010	30.44	30.51	1.21	1.22	NO	141.2	70.6	0.394	
28	28 13C-1,2,3,4,7,8-HxCDF	1386871.4...	0.510	NO	1.05	10.010	33.33	33.35	0.99	0.99	NO	142.8	71.5	0.359	
29	29 13C-1,2,3,6,7,8-HxCDF	1650507.5...	0.516	NO	1.19	10.010	33.43	33.47	0.99	0.99	NO	149.9	75.0	0.317	
30	30 13C-2,3,4,6,7,8-HxCDF	1389095.5...	0.515	NO	1.07	10.010	34.04	34.03	1.01	1.01	NO	140.8	70.4	0.353	
31	31 13C-1,2,3,7,8,9-HxCDF	1237162.1...	0.494	NO	0.922	10.010	34.95	34.92	1.04	1.04	NO	144.9	72.5	0.409	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-6a.qld

Last Altered: Friday, March 06, 2020 09:06:10 Pacific Standard Time
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Name: 200229R1_6, Date: 29-Feb-2020, Time: 15:11:38, ID: 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65, Description: PDI-049SC-B-02-04-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1088431.7...	0.424	NO	0.767	10.010	36.70	36.66	1.09	1.09	NO	153.3	76.7	0.452	
33	33 13C-1,2,3,4,7,8,9-HpCDF	788856.297	0.429	NO	0.552	10.010	38.72	38.72	1.15	1.15	NO	154.3	77.2	0.628	
34	34 13C-OCDF	2035378.9...	0.875	NO	0.789	10.010	41.32	41.37	1.23	1.23	NO	278.6	69.7	0.405	
35	35 37Cl-2,3,7,8-TCDD	829403.750			1.18	10.010	25.74	25.75	1.03	1.03	NO	70.04	87.6	0.0570	
36	36 13C-1,2,3,4-TCDD	2011468.2...	0.787	NO	1.00	10.010	25.11	25.06	1.00	1.00	NO	199.8	100	0.194	
37	37 13C-1,2,3,4-TCDF	2852719.6...	0.786	NO	1.00	10.010	23.37	23.28	1.00	1.00	NO	199.8	100	0.275	
38	38 13C-1,2,3,4,6,9-HxCDF	1849385.2...	0.514	NO	1.00	10.010	33.71	33.73	1.00	1.00	NO	199.8	100	0.377	
39	39 Total Tetra-Dioxins				0.988	10.010	24.62		0.00		NO	1.111		0.0697	1.357
40	40 Total Penta-Dioxins				0.972	10.010	29.96		0.00		NO	2.687		0.0898	2.826
41	41 Total Hexa-Dioxins				0.921	10.010	33.63		0.00		NO	23.82		0.159	24.06
42	42 Total Hepta-Dioxins				0.923	10.010	37.64		0.00		NO	184.3		0.761	184.3
43	43 Total Tetra-Furans				0.802	10.010	23.61		0.00		NO	83.99		0.0988	85.91
44	44 1st Func. Penta-Furans				0.907	10.010	27.09		0.00		NO	7.012		0.0325	7.012
45	45 Total Penta-Furans				0.907	10.010	29.27		0.00		NO	125.4		0.198	125.4
46	46 Total Hexa-Furans				0.898	10.010	33.56		0.00		NO	107.1		0.181	107.1
47	47 Total Hepta-Furans				0.851	10.010	37.83		0.00		NO	77.28		0.311	77.28

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Dataset: U:\VG12.PRO\Results\200229R1\200229R1-6a.qld

Last Altered: Friday, March 06, 2020 09:06:10 Pacific Standard Time

Printed: Friday, March 06, 2020 09:13:05 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R1_6, Date: 29-Feb-2020, Time: 15:11:38, ID: 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65, Description: PDI-049SC-B-02-04-191015

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	1 2,3,7,8-TCDD	1.35e3	1.80e6	0.576	YES	25.75	25.75	0.0000	0.1275
2	39 Total Tetra-Dioxins	1.85e3	1.80e6	0.830	NO	24.62	21.99	0.2079	0.2079
3	39 Total Tetra-Dioxins	8.02e3	1.80e6	0.836	NO	24.62	21.59	0.9034	0.9034
4	39 Total Tetra-Dioxins	0.00e0	1.80e6	0.538	YES	24.62	25.77	0.0000	0.1184

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	2.19e3	1.47e6	0.600	NO	29.96	30.04	0.3056	0.3056
2	40 Total Penta-Dioxins	2.35e3	1.47e6	0.719	NO	29.96	29.75	0.3291	0.3291
3	40 Total Penta-Dioxins	3.96e3	1.47e6	0.613	NO	29.96	29.58	0.5540	0.5540
4	40 Total Penta-Dioxins	0.00e0	1.47e6	1.122	YES	29.96	29.07	0.0000	0.1394
5	40 Total Penta-Dioxins	7.57e3	1.47e6	0.606	NO	29.96	28.58	1.058	1.058
6	40 Total Penta-Dioxins	6.21e2	1.47e6	0.694	NO	29.96	31.22	0.08691	0.08691
7	2 1,2,3,7,8-PeCDD	1.56e3	1.47e6	0.608	NO	30.86	30.85	0.2176	0.2176
8	40 Total Penta-Dioxins	9.67e2	1.47e6	0.665	NO	29.96	29.86	0.1353	0.1353

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	6.55e3	0.00e0	1.280	NO	33.63	33.30	1.135	1.135
2	41 Total Hexa-Dioxins	6.49e4	0.00e0	1.220	NO	33.63	32.75	11.25	11.25
3	5 1,2,3,7,8,9-HxCDD	1.63e3	1.29e6	0.956	YES	34.57	34.57	0.0000	0.2430
4	41 Total Hexa-Dioxins	1.53e3	0.00e0	1.137	NO	33.63	34.50	0.2643	0.2643
5	4 1,2,3,6,7,8-HxCDD	1.23e4	1.42e6	1.253	NO	34.31	34.32	1.882	1.882
6	3 1,2,3,4,7,8-HxCDD	2.30e3	1.05e6	1.418	NO	34.21	34.22	0.4067	0.4067
7	41 Total Hexa-Dioxins	4.87e4	0.00e0	1.223	NO	33.63	33.54	8.444	8.444
8	41 Total Hexa-Dioxins	2.50e3	0.00e0	1.089	NO	33.63	34.59	0.4328	0.4328

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Dataset: U:\VG12.PRO\Results\200229R1\200229R1-6a.qld

Last Altered: Friday, March 06, 2020 09:06:10 Pacific Standard Time

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Name: 200229R1_6, Date: 29-Feb-2020, Time: 15:11:38, ID: 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65, Description: PDI-049SC-B-02-04-191015

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	3.75e5	1.01e6	1.031	NO	38.10	38.10	80.27	80.27
2	42 Total Hepta-Dioxins	4.85e5	1.01e6	1.063	NO	37.64	37.06	104.0	104.0

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	2.42e3	2.28e6	0.879	NO	23.61	24.34	0.2648	0.2648
2	43 Total Tetra-Furans	6.86e3	2.28e6	0.750	NO	23.61	24.13	0.7506	0.7506
3	43 Total Tetra-Furans	2.13e5	2.28e6	0.750	NO	23.61	23.83	23.29	23.29
4	43 Total Tetra-Furans	4.81e4	2.28e6	0.743	NO	23.61	23.30	5.261	5.261
5	43 Total Tetra-Furans	9.97e3	2.28e6	0.757	NO	23.61	22.40	1.091	1.091
6	43 Total Tetra-Furans	2.18e4	2.28e6	0.766	NO	23.61	22.02	2.383	2.383
7	43 Total Tetra-Furans	5.61e4	2.28e6	0.765	NO	23.61	21.56	6.136	6.136
8	43 Total Tetra-Furans	1.02e4	2.28e6	0.715	NO	23.61	21.19	1.114	1.114
9	43 Total Tetra-Furans	2.88e4	2.28e6	0.750	NO	23.61	20.63	3.147	3.147
10	43 Total Tetra-Furans	3.50e3	2.28e6	0.774	NO	23.61	20.06	0.3833	0.3833
11	43 Total Tetra-Furans	1.55e3	2.28e6	0.798	NO	23.61	19.52	0.1697	0.1697
12	43 Total Tetra-Furans	0.00e0	2.28e6	0.891	YES	23.61	26.89	0.0000	1.925
13	43 Total Tetra-Furans	8.04e3	2.28e6	0.871	NO	23.61	25.20	0.8802	0.8802
14	8 2,3,7,8-TCDF	3.26e5	2.28e6	0.755	NO	24.82	24.81	35.71	35.71
15	43 Total Tetra-Furans	2.22e4	2.28e6	0.723	NO	23.61	24.69	2.431	2.431
16	43 Total Tetra-Furans	1.22e3	2.28e6	0.808	NO	23.61	24.60	0.1334	0.1334
17	43 Total Tetra-Furans	7.67e3	2.28e6	0.773	NO	23.61	23.18	0.8395	0.8395

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	6.31e4	0.00e0	1.568	NO	27.09	26.90	7.012	7.012

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Dataset: U:\VG12.PRO\Results\200229R1\200229R1-6a.qld

Last Altered: Friday, March 06, 2020 09:06:10 Pacific Standard Time

Printed: Friday, March 06, 2020 09:13:05 Pacific Standard Time

Name: 200229R1_6, Date: 29-Feb-2020, Time: 15:11:38, ID: 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65, Description: PDI-049SC-B-02-04-191015

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	9.95e3	0.00e0	1.481	NO	29.27	31.48	1.106	1.106
2	10 2,3,4,7,8-PeCDF	2.43e5	1.94e6	1.550	NO	30.55	30.53	26.38	26.38
3	45 Total Penta-Furans	1.26e5	0.00e0	1.571	NO	29.27	29.81	13.99	13.99
4	9 1,2,3,7,8-PeCDF	4.93e5	2.02e6	1.554	NO	29.54	29.54	53.69	53.69
5	45 Total Penta-Furans	3.26e4	0.00e0	1.487	NO	29.27	29.34	3.626	3.626
6	45 Total Penta-Furans	1.84e4	0.00e0	1.497	NO	29.27	29.13	2.044	2.044
7	45 Total Penta-Furans	2.17e5	0.00e0	1.590	NO	29.27	28.53	24.18	24.18
8	45 Total Penta-Furans	3.95e3	0.00e0	1.735	NO	29.27	28.38	0.4390	0.4390

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	6.03e4	0.00e0	1.198	NO	33.56	32.36	9.476	9.476
2	46 Total Hexa-Furans	1.60e4	0.00e0	1.178	NO	33.56	32.19	2.511	2.511
3	14 1,2,3,7,8,9-HxCDF	6.43e3	1.24e6	1.197	NO	34.92	34.95	1.210	1.210
4	13 2,3,4,6,7,8-HxCDF	2.41e4	1.39e6	1.221	NO	34.06	34.05	3.866	3.866
5	46 Total Hexa-Furans	2.59e3	0.00e0	1.337	NO	33.56	33.74	0.4074	0.4074
6	12 1,2,3,6,7,8-HxCDF	1.10e5	1.65e6	1.208	NO	33.48	33.48	15.87	15.87
7	11 1,2,3,4,7,8-HxCDF	3.40e5	1.39e6	1.215	NO	33.35	33.36	56.80	56.80
8	46 Total Hexa-Furans	2.91e3	0.00e0	1.208	NO	33.56	33.25	0.4578	0.4578
9	46 Total Hexa-Furans	7.61e4	0.00e0	1.192	NO	33.56	32.90	11.95	11.95
10	46 Total Hexa-Furans	2.90e4	0.00e0	1.247	NO	33.56	34.98	4.562	4.562

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	2.56e4	7.89e5	0.974	NO	38.72	38.73	6.613	6.613
2	47 Total Hepta-Furans	1.84e5	0.00e0	1.006	NO	37.83	37.27	46.10	46.10
3	15 1,2,3,4,6,7,8-HpCDF	1.14e5	1.09e6	1.020	NO	36.70	36.67	24.57	24.57

Dataset: Untitled

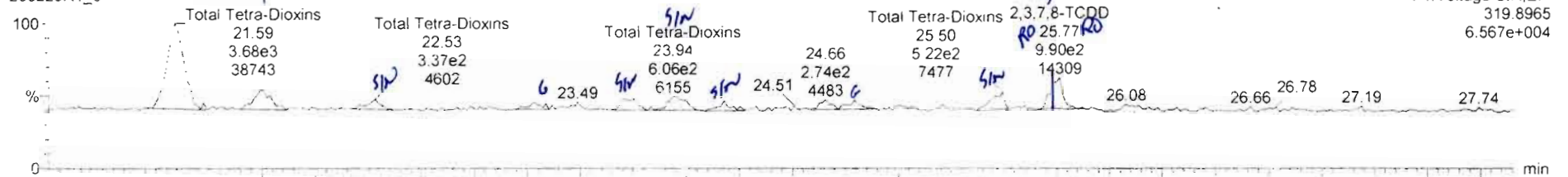
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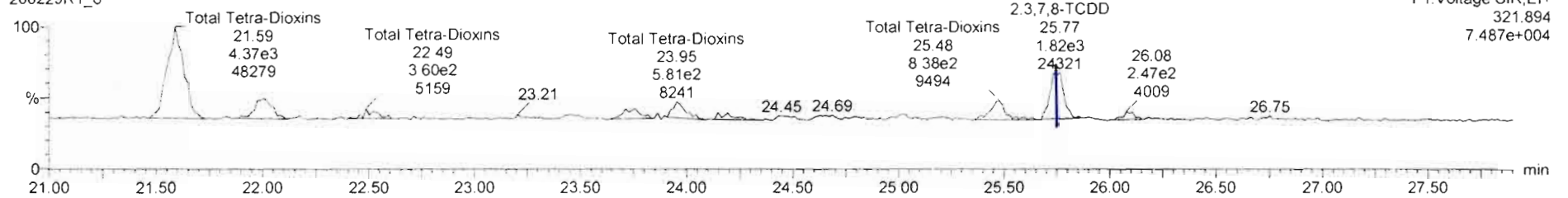
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2,3,7,8-TCDD

200229R1_6

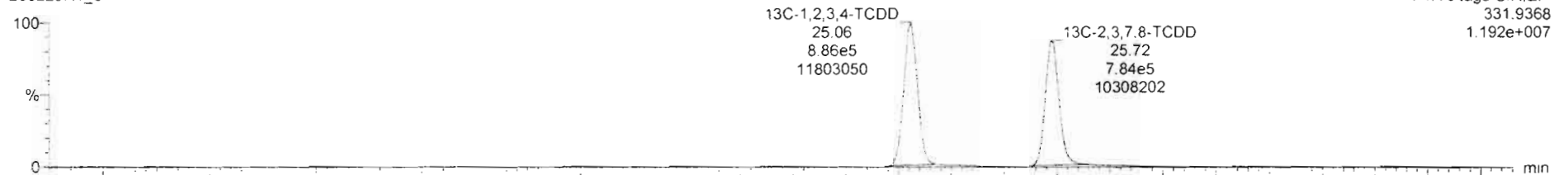


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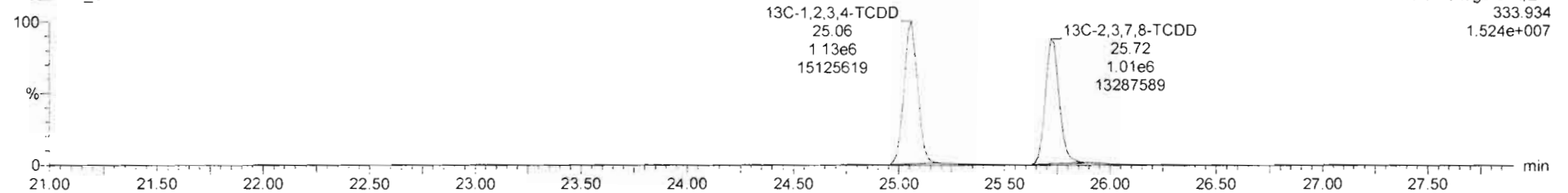


13C-2,3,7,8-TCDD

200229R1_6



200229R1_6



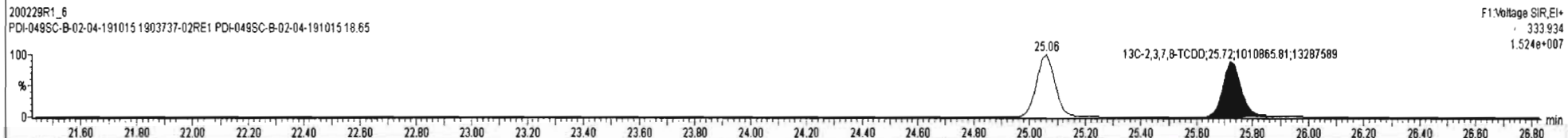
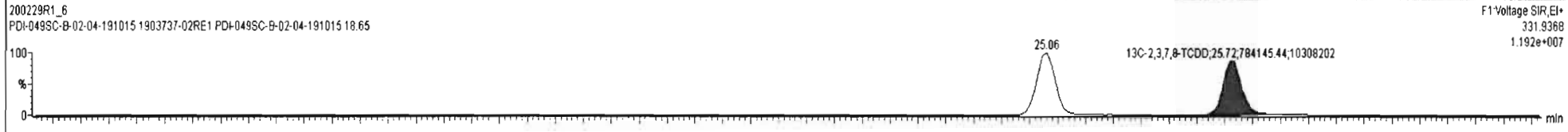
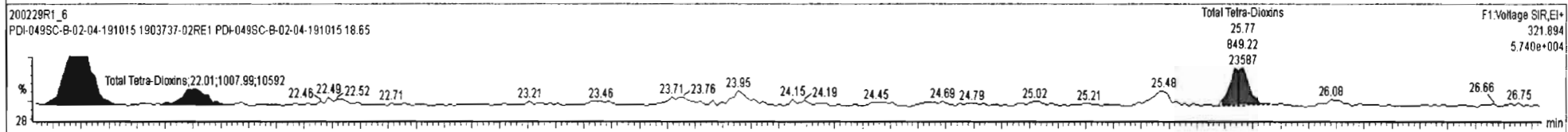
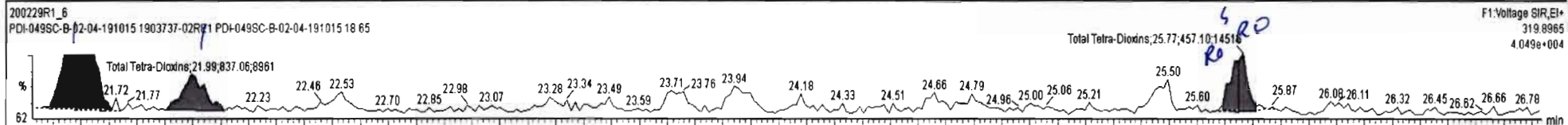
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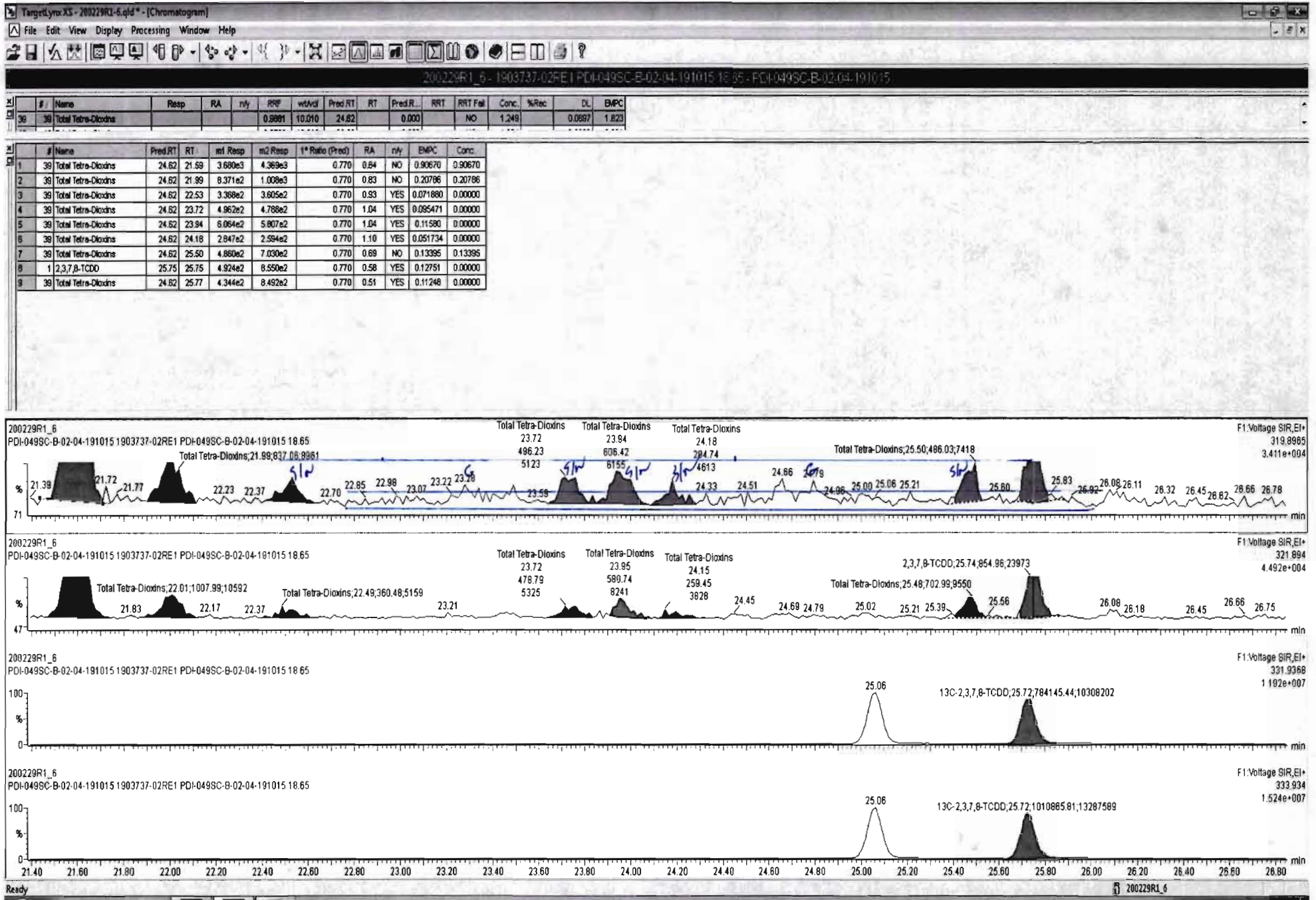
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200229R1_6 - 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65 - PDI-049SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
38	Total Tetra-Dioxins				0.5981	10.010	24.62		0.000		NO	1.111		0.0687	1.357

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1*Ratio (Pred)	RA	n/y	EMPC	Conc.
1	38 Total Tetra-Dioxins	24.62	21.59	3.650e3	4.369e3	0.770	0.84	NO	0.90338	0.90338
2	38 Total Tetra-Dioxins	24.62	21.89	8.371e2	1.008e3	0.770	0.83	NO	0.20786	0.20786
3	1 2,3,7,8-TCDD	25.75	25.75	4.924e2	8.550e2	0.770	0.58	YES	0.12751	0.00000
4	38 Total Tetra-Dioxins	24.62	25.77	4.571e2	6.492e2	0.770	0.54	YES	0.11837	0.00000





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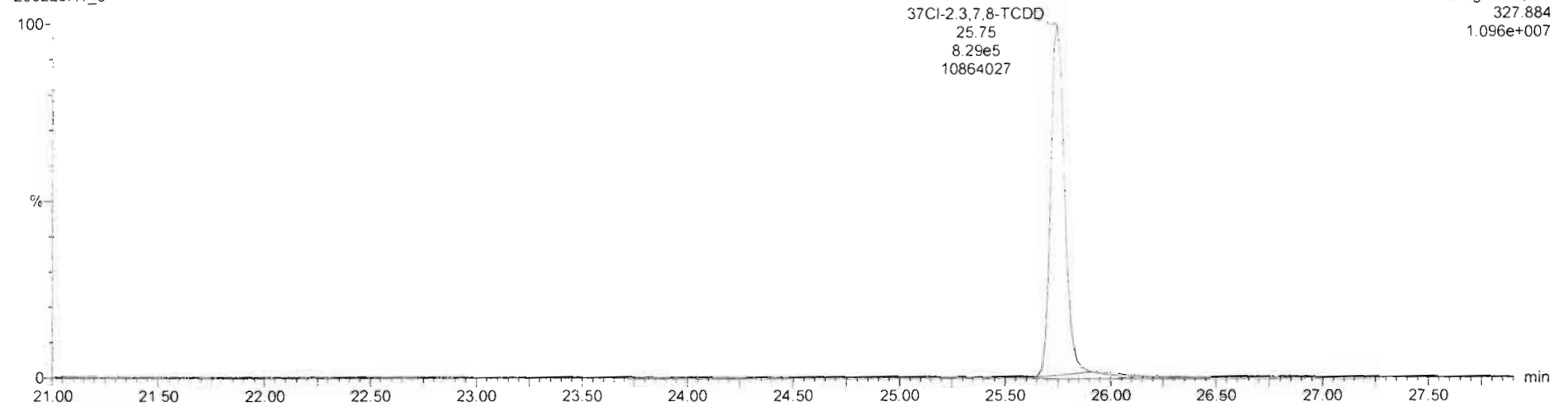
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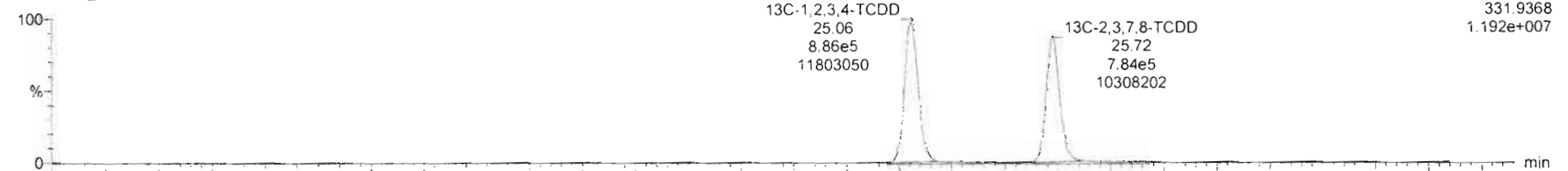
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200229R1_6

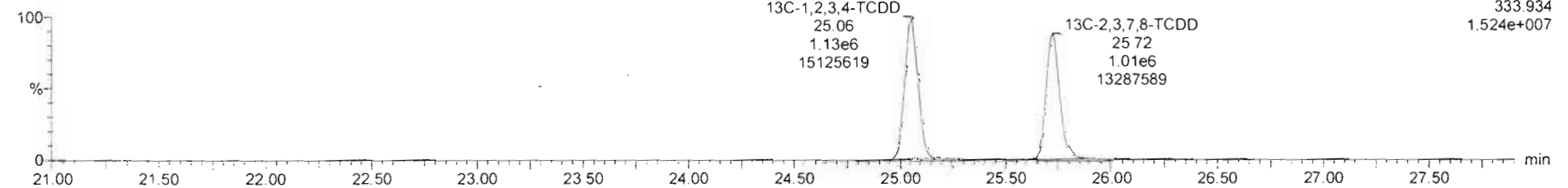


13C-1,2,3,4-TCDD

200229R1_6



200229R1_6



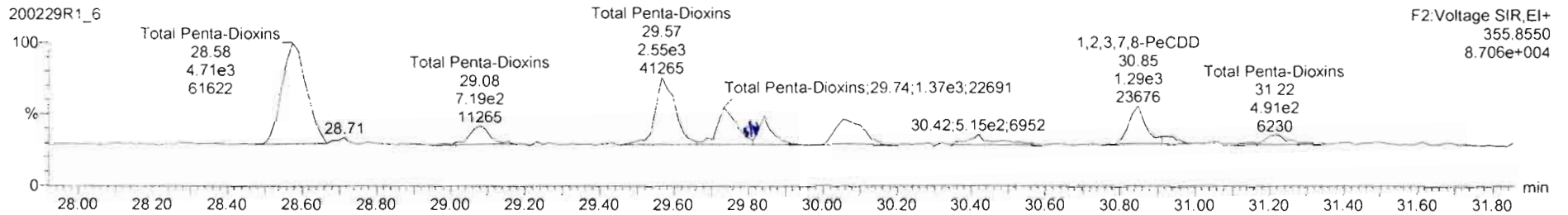
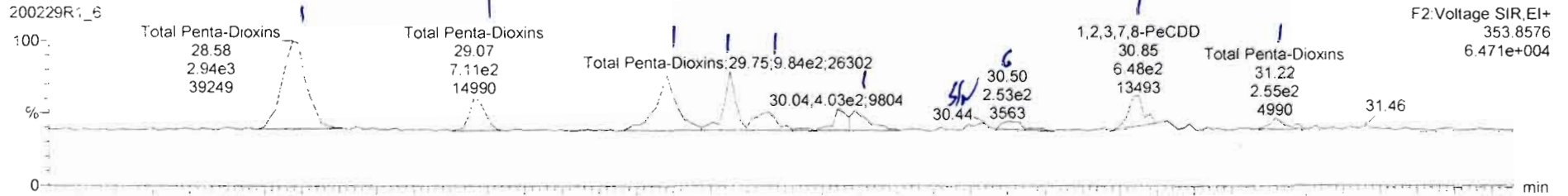
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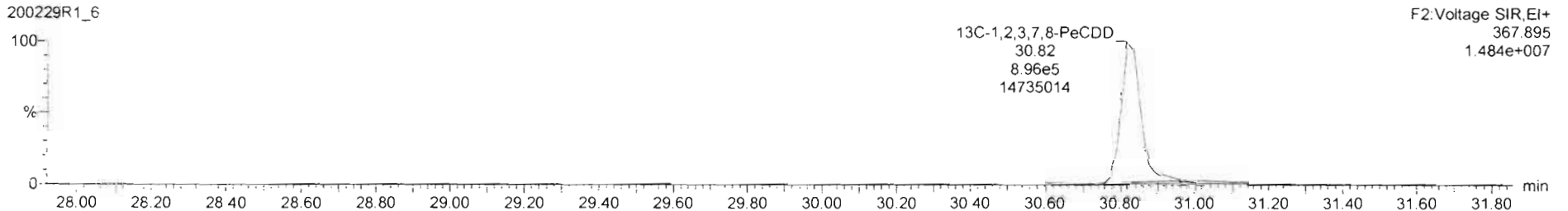
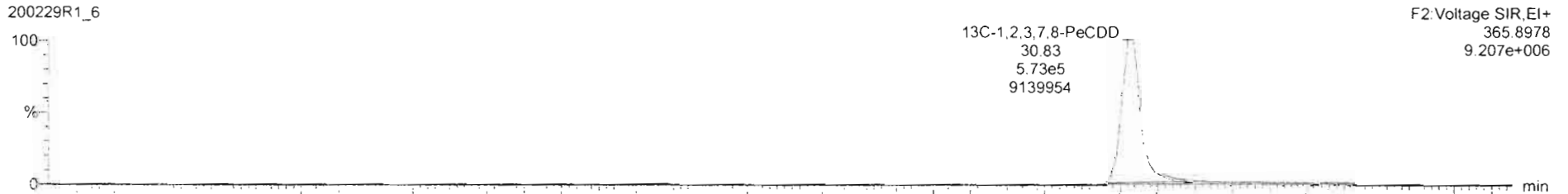
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1,2,3,7,8-PeCDD



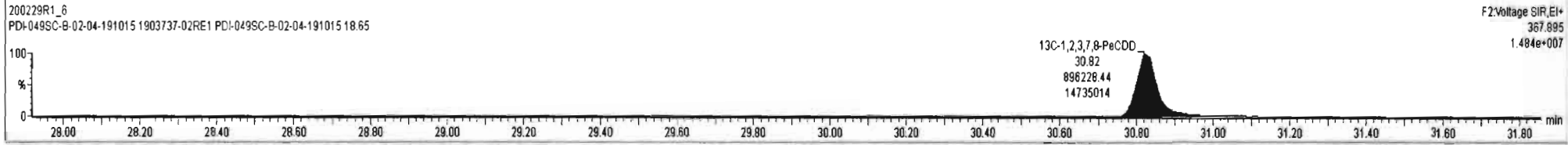
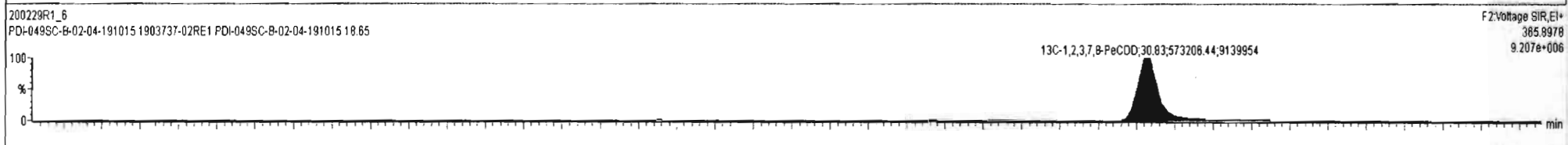
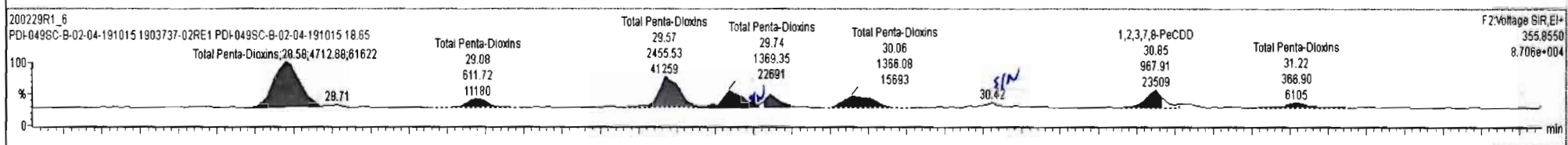
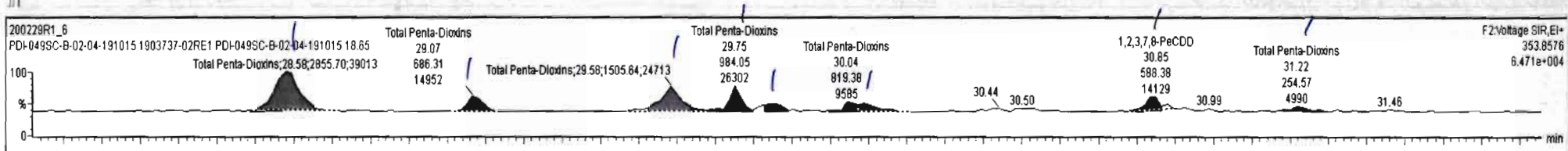
13C-1,2,3,7,8-PeCDD



200229R1_6 - 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65 PDI-049SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DIL	EMPC
40	Total Penta-Dioxins				0.8723	10.010	29.98		0.000		NO	2.887		0.0898	2.828

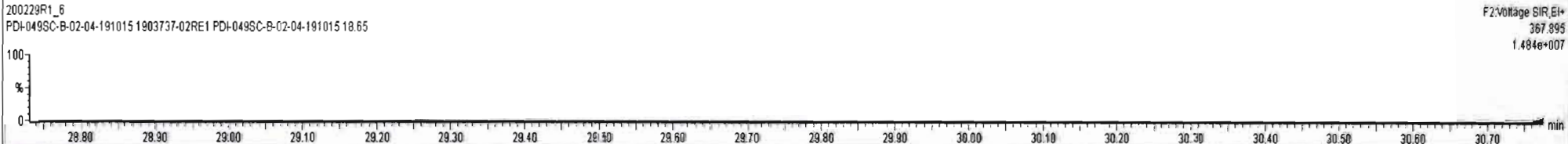
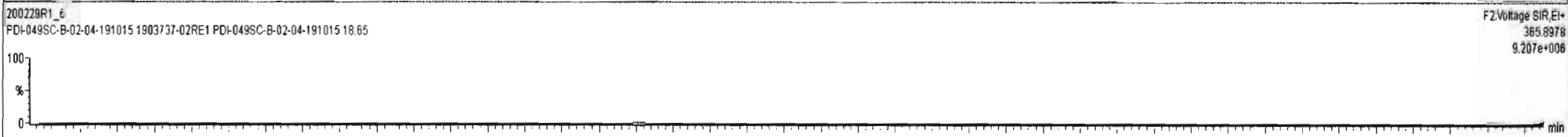
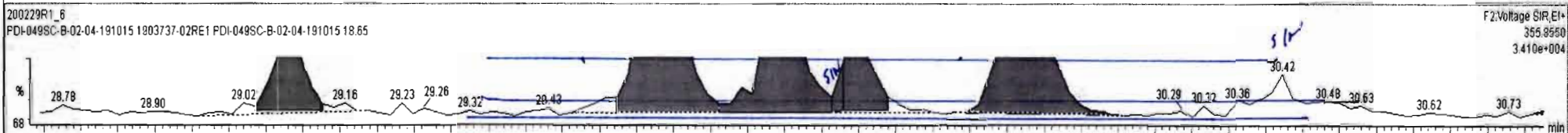
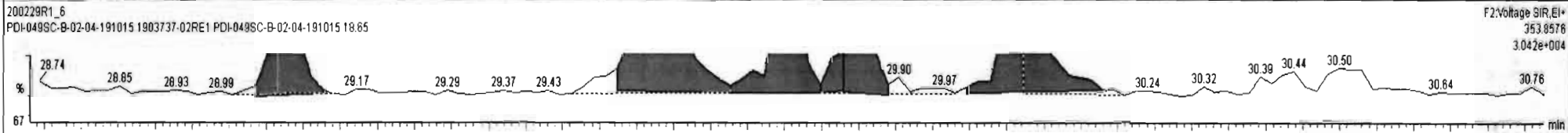
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.96	28.58	2.856e3	4.713e3	0.630	0.61	NO	1.0585	1.0585
2	Total Penta-Dioxins	29.96	29.07	6.863e2	8.117e2	0.630	1.12	YES	0.13945	0.00000
3	Total Penta-Dioxins	29.96	29.58	1.506e3	2.456e3	0.630	0.61	NO	0.55367	0.55397
4	Total Penta-Dioxins	29.96	29.75	9.840e2	1.369e3	0.630	0.72	NO	0.32913	0.32913
5	Total Penta-Dioxins	29.96	29.86	3.864e2	5.809e2	0.630	0.67	NO	0.13527	0.13527
6	Total Penta-Dioxins	29.96	30.04	6.194e2	1.366e3	0.630	0.60	NO	0.30564	0.30564
7	1,2,3,7,8-PeCDD	30.86	30.85	5.884e2	9.679e2	0.630	0.61	NO	0.21765	0.21765
8	Total Penta-Dioxins	29.96	31.22	2.546e2	3.669e2	0.630	0.69	NO	0.088912	0.088912



200229R1_6 - 1903737-02RE1 PDI-049SC-B-02-04-191015 18:65 - PDI-049SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9723	10.010	29.96		0.000		NO	2.548		0.0698	2.735

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	28.58	2.856e3	4.713e3	0.630	0.61	NO	1.0585	1.0585
2	40 Total Penta-Dioxins	29.96	28.07	2.203e2	1.531e2	0.630	1.44	YES	0.034902	0.00000
3	40 Total Penta-Dioxins	29.96	29.58	1.480e3	2.456e3	0.630	0.60	NO	0.55034	0.55034
4	40 Total Penta-Dioxins	29.96	29.75	9.840e2	1.368e3	0.630	0.72	NO	0.32913	0.32913
5	40 Total Penta-Dioxins	29.96	29.83	1.373e2	8.190e1	0.630	1.68	YES	0.018669	0.00000
6	40 Total Penta-Dioxins	29.96	29.86	3.883e2	5.613e2	0.630	0.89	NO	0.13280	0.00000
7	40 Total Penta-Dioxins	29.96	30.04	8.194e2	1.366e3	0.630	0.60	NO	0.30564	0.30564
8	2 1,2,3,7-β-PeCDD	30.86	30.85	5.884e2	9.679e2	0.630	0.61	NO	0.21765	0.21765
9	40 Total Penta-Dioxins	29.96	31.22	2.546e2	3.689e2	0.630	0.89	NO	0.086912	0.086912



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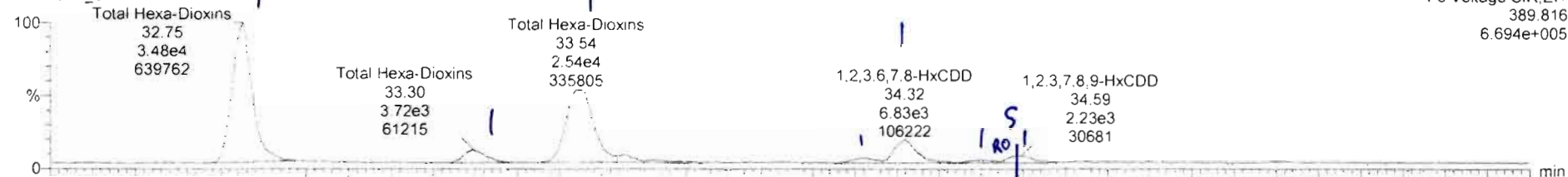
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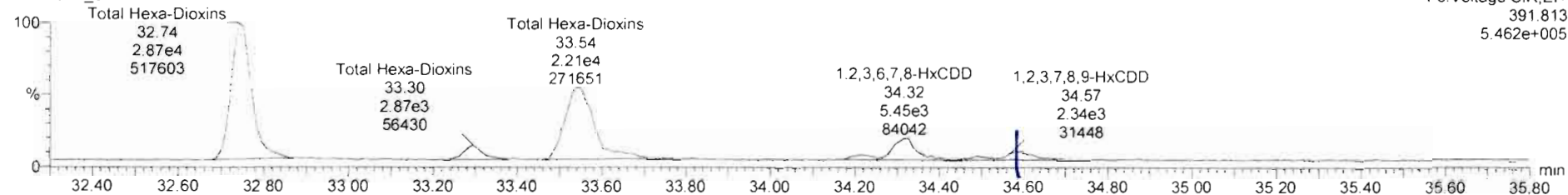
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1,2,3,4,7,8-HxCDD

200229R1_6

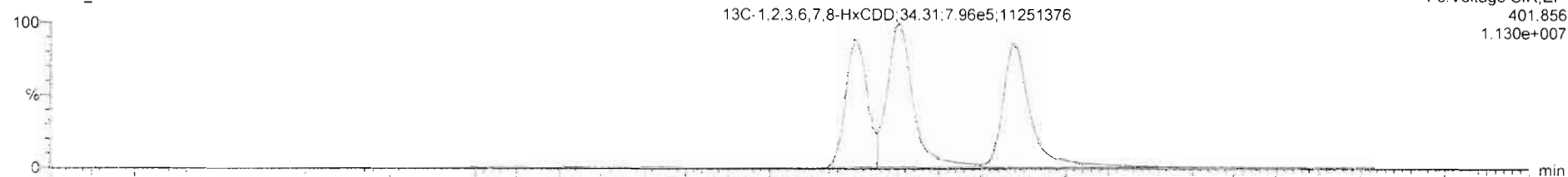


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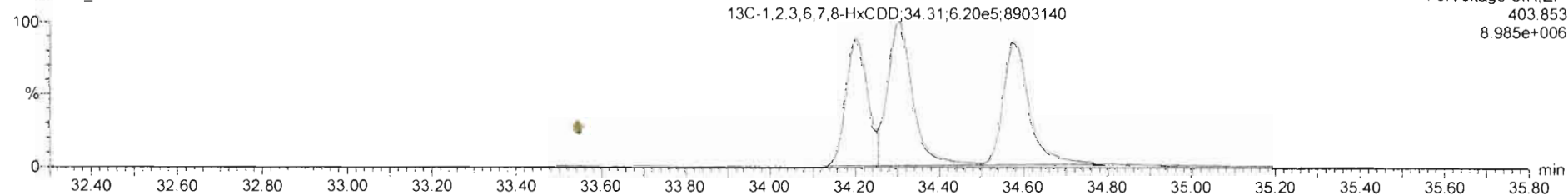


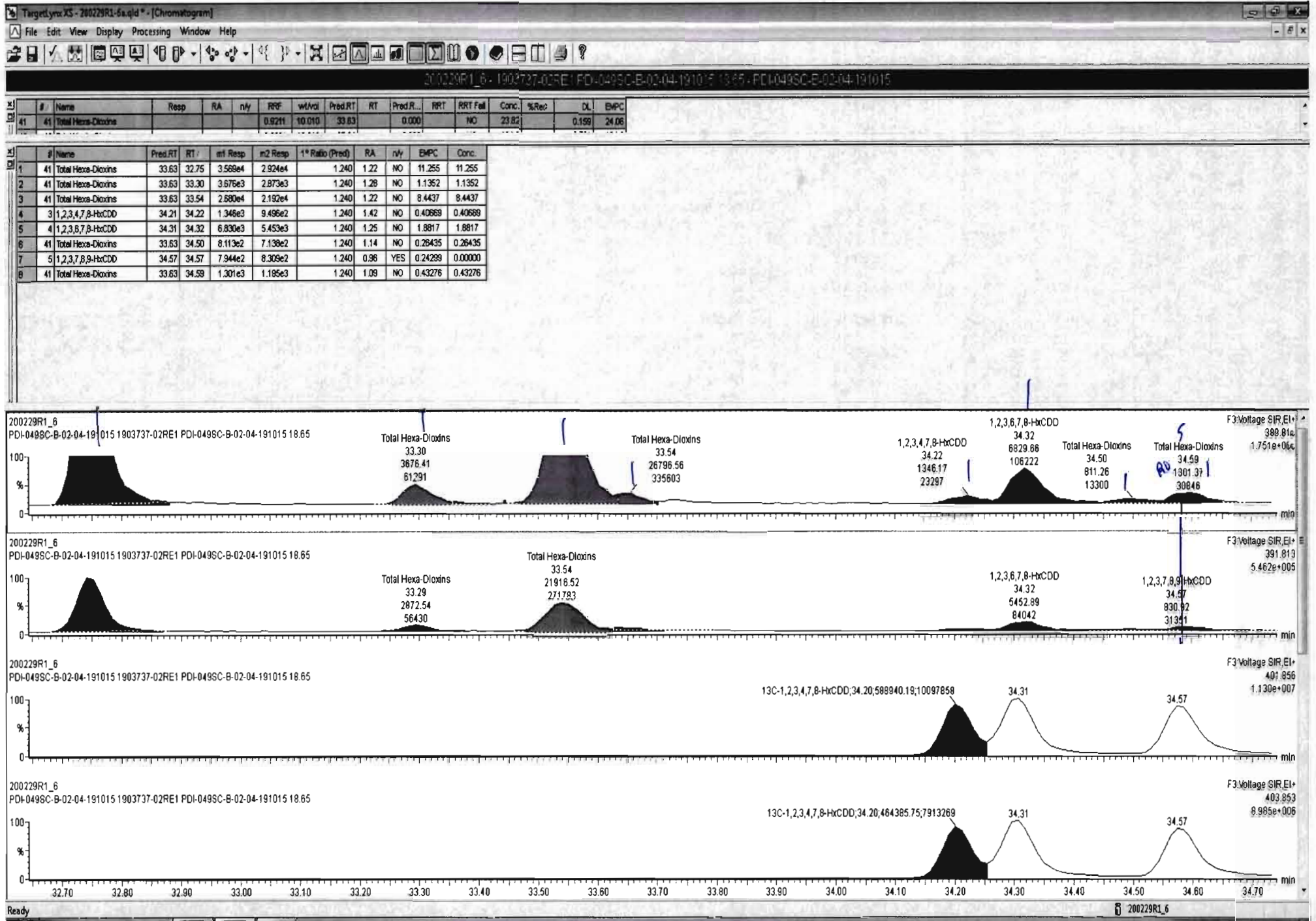
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200229R1_6



200229R1_6





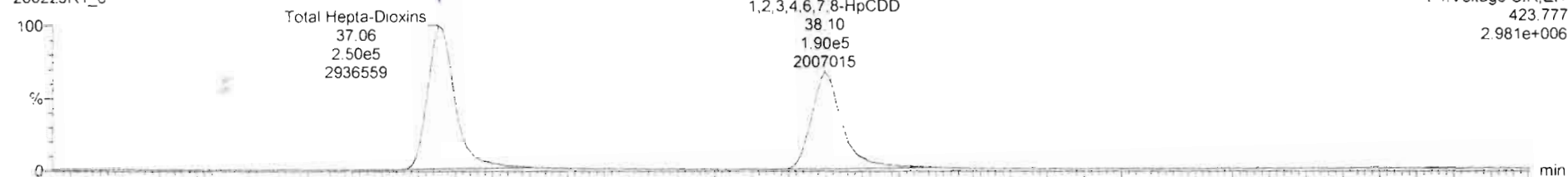
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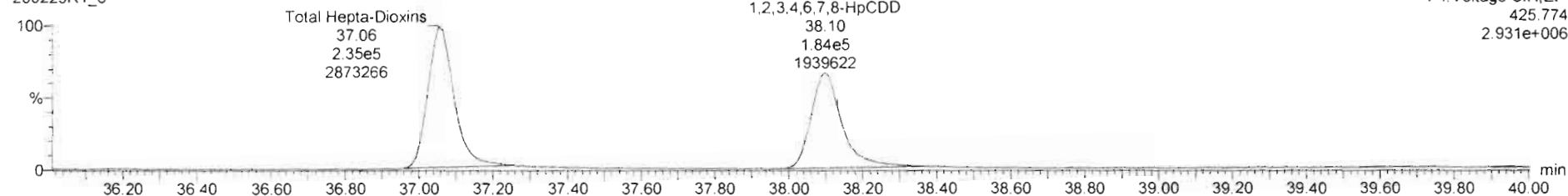
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1,2,3,4,6,7,8-HpCDD

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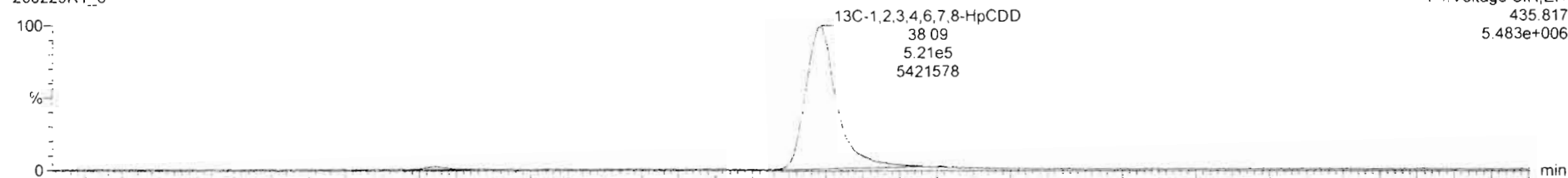


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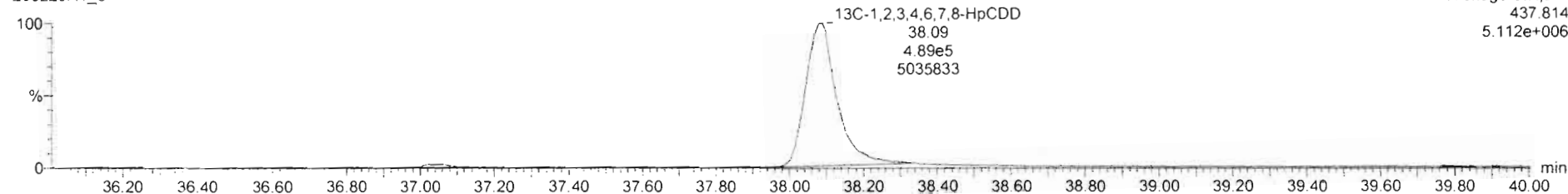


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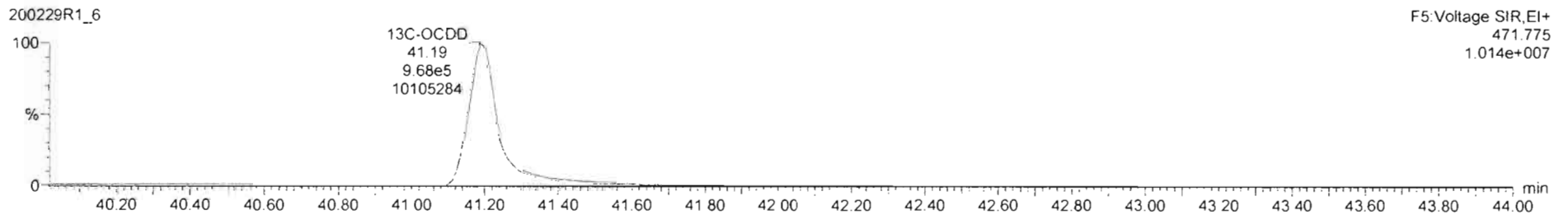
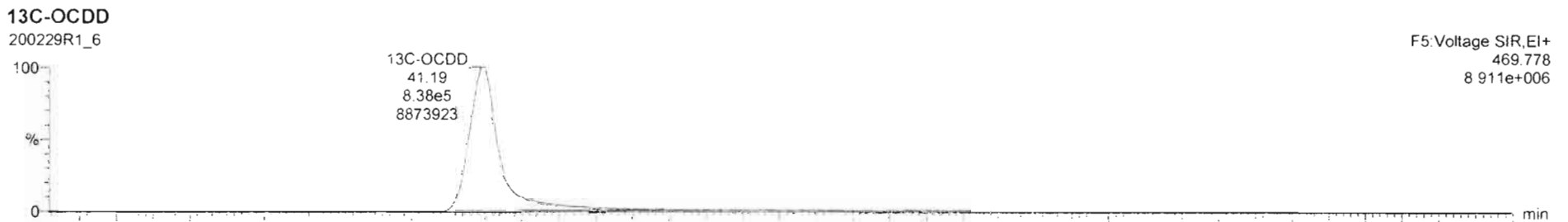
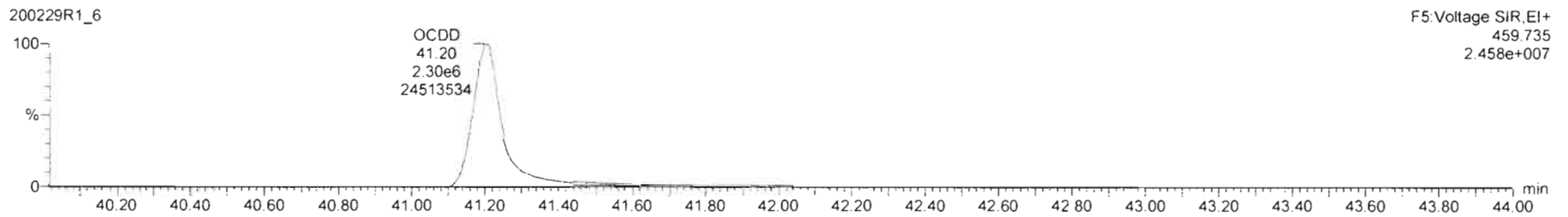
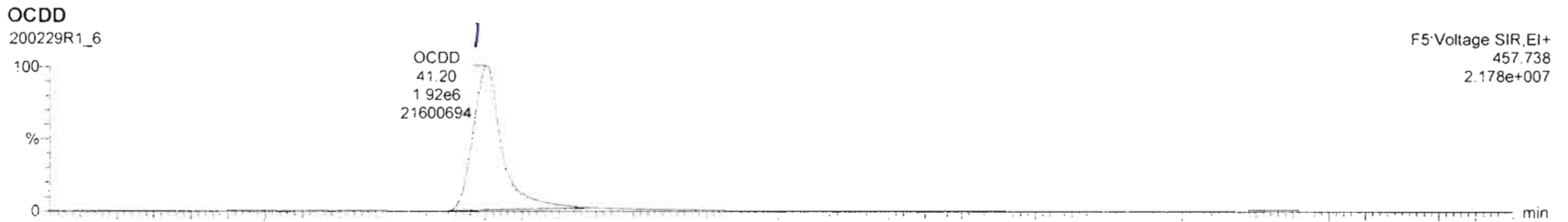


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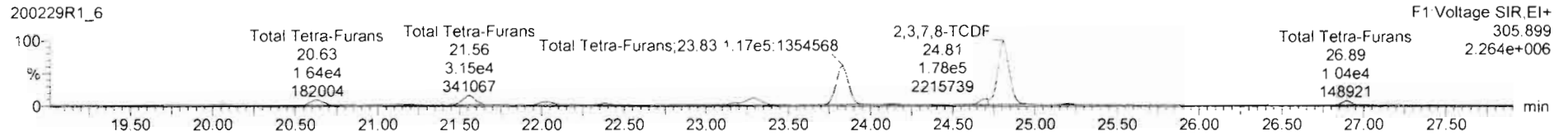
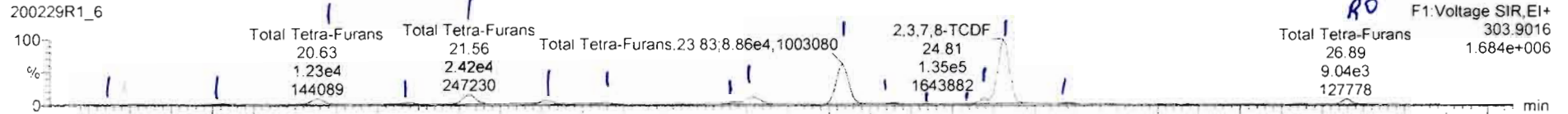
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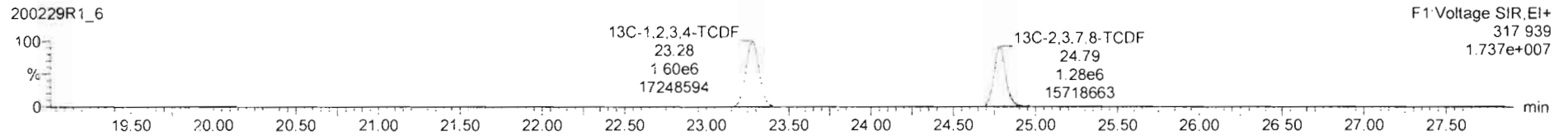
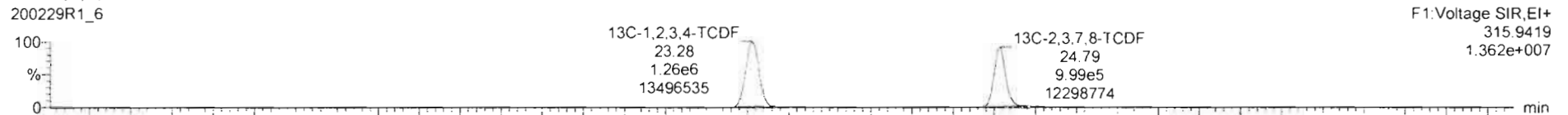
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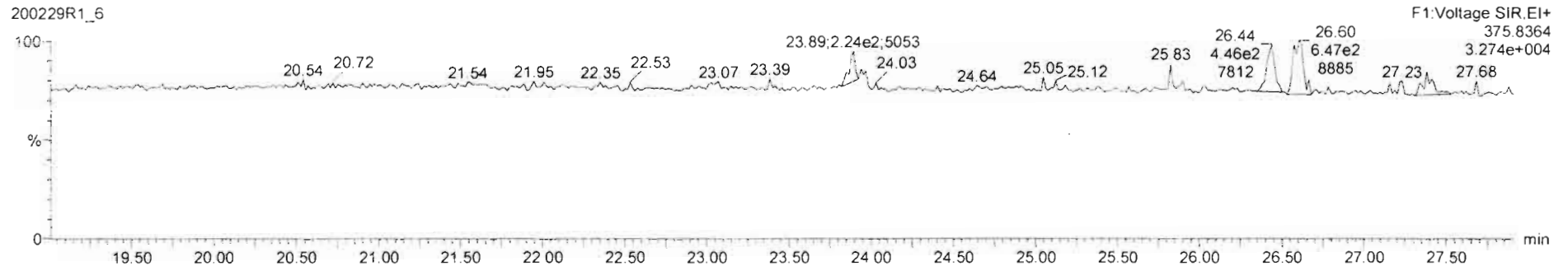
2,3,7,8-TCDF

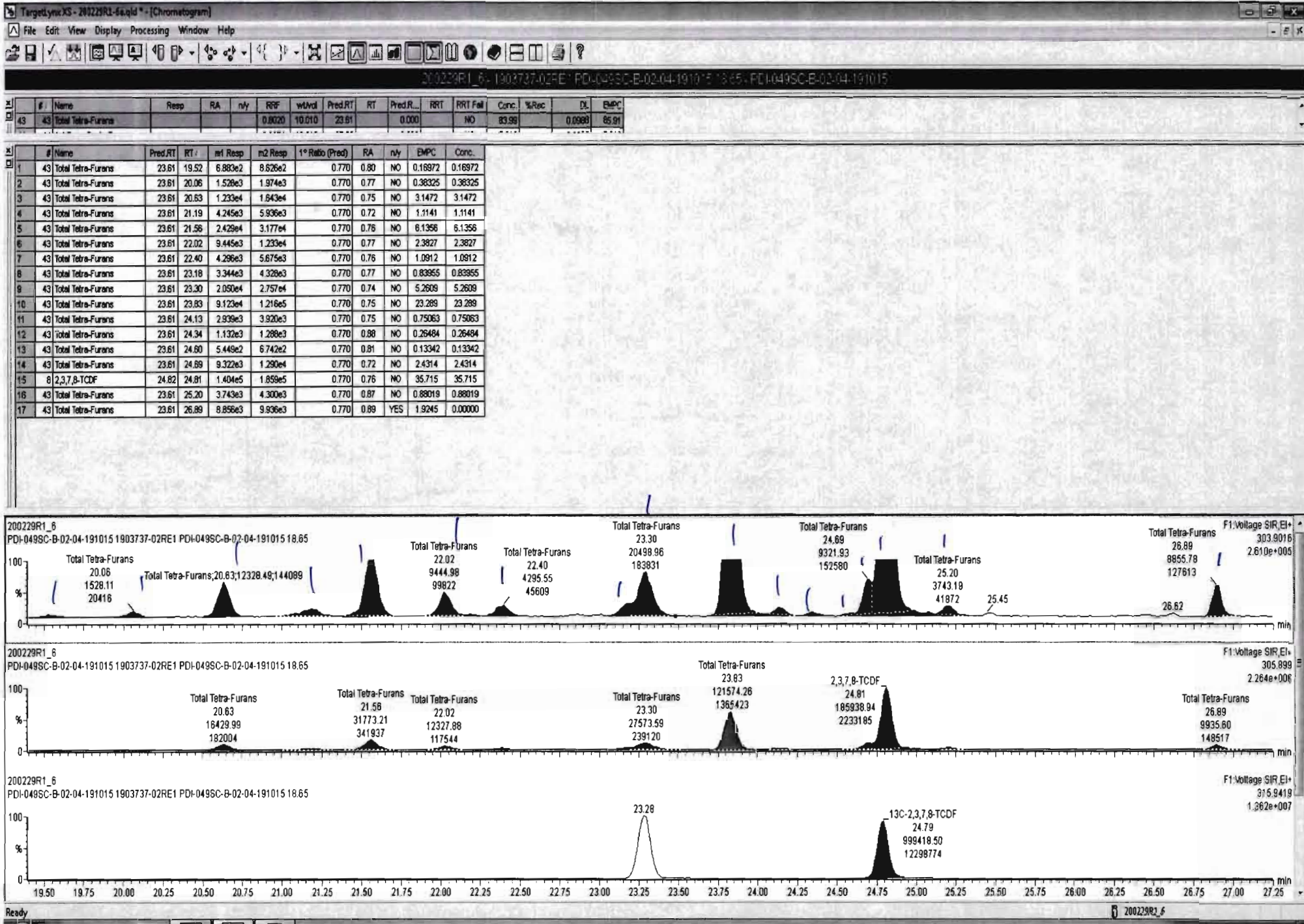


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DPE1

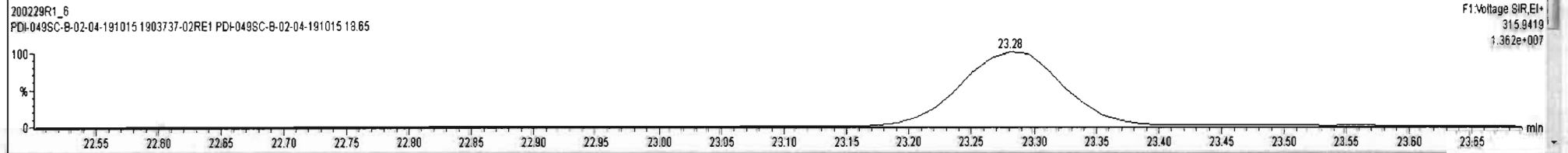
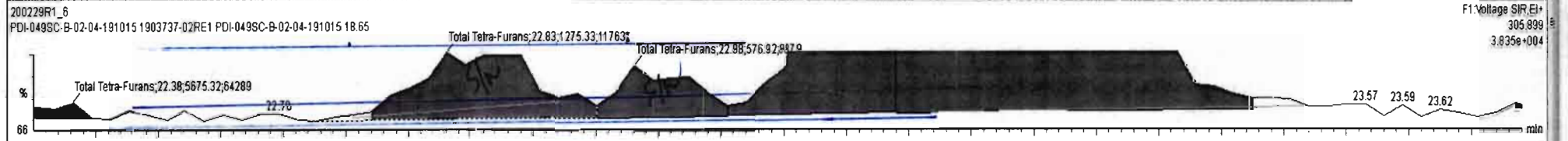
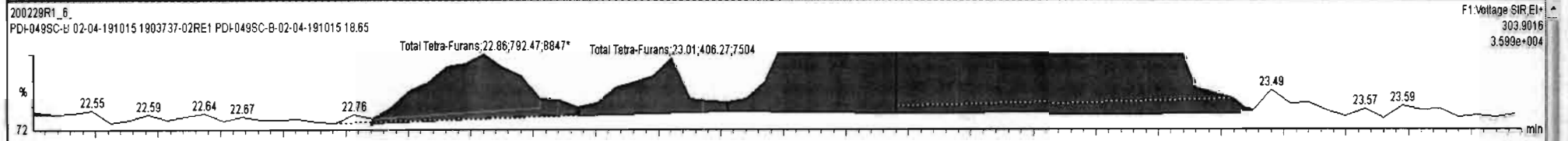




200229R1_6-1903737-02RE1 PD+049SC-B-02-04-191015 18.65 PD+049SC-E-02-04-191015

#	Name	Resp	RA	n/y	RRF	wfVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9231	10.010	37.54		0.000		NO	184.3		0.781	184.3

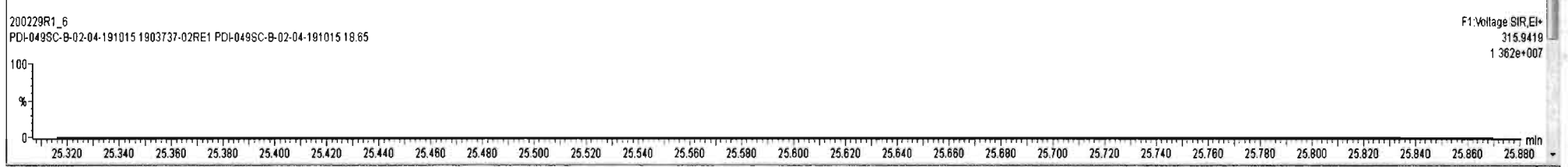
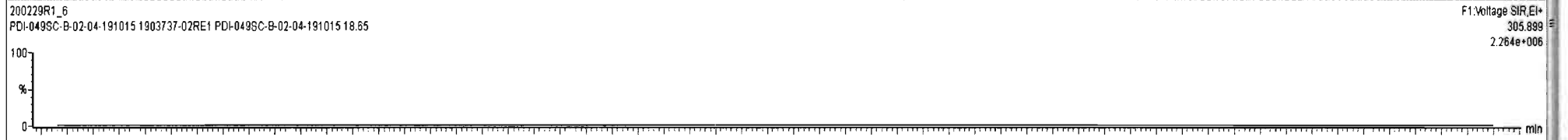
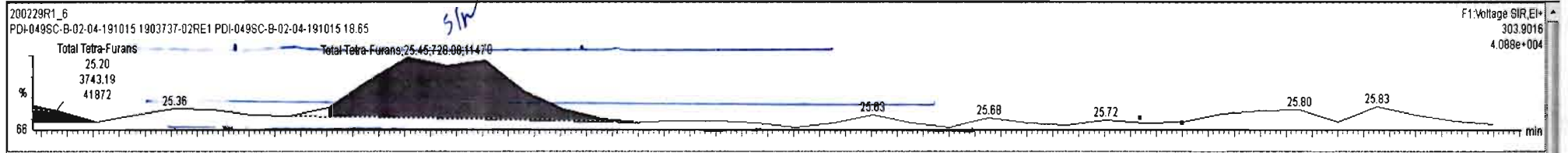
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.52	6.883e2	8.626e2	0.770	0.80	NO	0.18972	0.18972
2	43 Total Tetra-Furans	23.61	20.06	1.528e3	1.974e3	0.770	0.77	NO	0.38325	0.38325
3	43 Total Tetra-Furans	23.61	20.63	1.233e4	1.643e4	0.770	0.75	NO	3.1472	3.1472
4	43 Total Tetra-Furans	23.61	21.19	4.245e3	5.936e3	0.770	0.72	NO	1.1141	1.1141
5	43 Total Tetra-Furans	23.61	21.56	2.429e4	3.177e4	0.770	0.76	NO	6.1356	6.1356
6	43 Total Tetra-Furans	23.61	22.02	9.445e3	1.233e4	0.770	0.77	NO	2.3827	2.3827
7	43 Total Tetra-Furans	23.61	22.40	4.296e3	5.675e3	0.770	0.76	NO	1.0912	1.0912
8	43 Total Tetra-Furans	23.61	22.86	6.176e2	8.194e2	0.770	0.87	NO	0.18820	0.18820
9	43 Total Tetra-Furans	23.61	23.01	4.063e2	5.789e2	0.770	0.70	NO	0.10780	0.10780
10	43 Total Tetra-Furans	23.61	23.18	3.344e3	4.328e3	0.770	0.77	NO	0.83955	0.83955
11	43 Total Tetra-Furans	23.61	23.30	2.050e4	2.757e4	0.770	0.74	NO	5.2605	5.2605
12	43 Total Tetra-Furans	23.61	23.83	9.123e4	1.216e5	0.770	0.75	NO	23.289	23.289
13	43 Total Tetra-Furans	23.61	24.13	2.939e3	3.920e3	0.770	0.75	NO	0.75063	0.75063
14	43 Total Tetra-Furans	23.61	24.34	1.132e3	1.288e3	0.770	0.88	NO	0.26484	0.26484
15	43 Total Tetra-Furans	23.61	24.80	5.449e2	6.742e2	0.770	0.81	NO	0.13342	0.13342
16	43 Total Tetra-Furans	23.61	24.89	9.322e3	1.290e4	0.770	0.72	NO	2.4314	2.4314
17	8 2,3,7,8-TCDF	24.82	24.81	1.404e5	1.859e5	0.770	0.76	NO	35.715	35.715
18	43 Total Tetra-Furans	23.61	25.20	3.743e3	4.300e3	0.770	0.87	NO	0.88019	0.88019
19	43 Total Tetra-Furans	23.61	26.89	8.856e3	9.936e3	0.770	0.89	YES	1.9245	0.00000



200229R1_6 - 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65 - 1903737-02RE1 PDI-049SC-B-02-04-191015

#	Name	Resp	RA	n/y	RF	wtAve	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	10.010	23.61		0.000		NO	84.26		0.0868	85.37

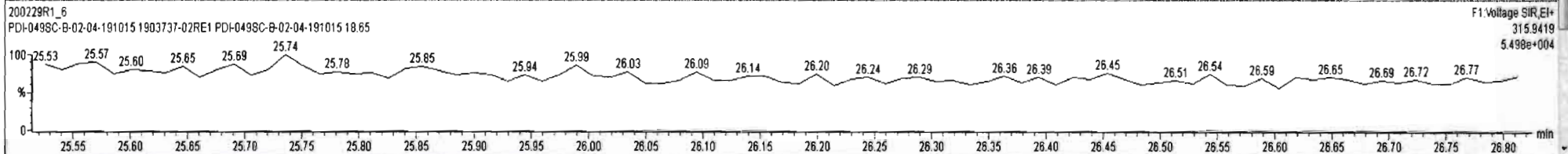
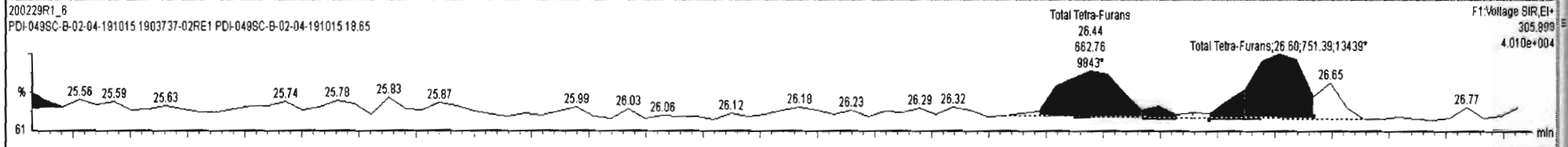
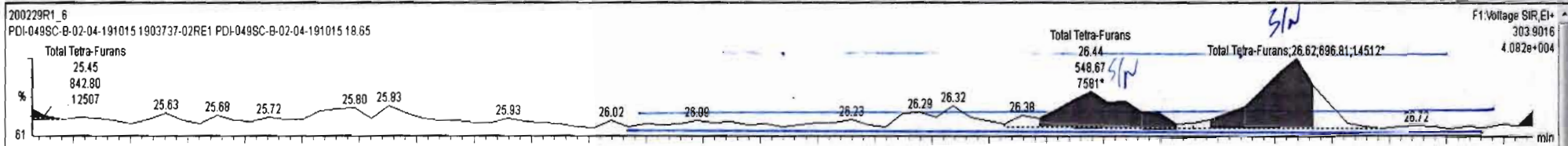
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.52	6.883e2	8.626e2	0.770	0.80	NO	0.16972	0.16972
2	43 Total Tetra-Furans	23.61	20.06	1.528e3	1.974e3	0.770	0.77	NO	0.38325	0.38325
3	43 Total Tetra-Furans	23.61	20.63	1.233e4	1.643e4	0.770	0.75	NO	3.1472	3.1472
4	43 Total Tetra-Furans	23.61	21.19	4.245e3	5.936e3	0.770	0.72	NO	1.1141	1.1141
5	43 Total Tetra-Furans	23.61	21.56	2.428e4	3.177e4	0.770	0.76	NO	6.1356	6.1356
6	43 Total Tetra-Furans	23.61	22.02	9.445e3	1.233e4	0.770	0.77	NO	2.3827	2.3827
7	43 Total Tetra-Furans	23.61	22.40	4.298e3	5.675e3	0.770	0.76	NO	1.0912	1.0912
8	43 Total Tetra-Furans	23.61	22.86	6.176e2	9.194e2	0.770	0.67	NO	0.16820	0.16820
9	43 Total Tetra-Furans	23.61	23.01	4.063e2	5.769e2	0.770	0.70	NO	0.10760	0.10760
10	43 Total Tetra-Furans	23.61	23.18	3.344e3	4.328e3	0.770	0.77	NO	0.83955	0.83955
11	43 Total Tetra-Furans	23.61	23.30	2.050e4	2.757e4	0.770	0.74	NO	5.2605	5.2605
12	43 Total Tetra-Furans	23.61	23.83	9.123e4	1.216e5	0.770	0.75	NO	23.289	23.289
13	43 Total Tetra-Furans	23.61	24.13	2.939e3	3.920e3	0.770	0.75	NO	0.75063	0.75063
14	43 Total Tetra-Furans	23.61	24.34	1.132e3	1.288e3	0.770	0.88	NO	0.26484	0.26484
15	43 Total Tetra-Furans	23.61	24.60	5.449e2	8.742e2	0.770	0.81	NO	0.13342	0.13342
16	43 Total Tetra-Furans	23.61	24.89	9.322e3	1.290e4	0.770	0.72	NO	2.4314	2.4314
17	8 2,3,7,8-TCDF	24.82	24.81	1.404e5	1.859e5	0.770	0.78	NO	35.715	35.715
18	43 Total Tetra-Furans	23.61	25.20	3.743e3	4.300e3	0.770	0.67	NO	0.88019	0.88019
19	43 Total Tetra-Furans	23.61	25.45	7.281e2	1.381e3	0.770	0.54	YES	0.18316	0.00000
20	43 Total Tetra-Furans	23.61	26.89	8.856e3	9.936e3	0.770	0.89	YES	1.9245	0.00000



200229R1_6 - 1903737-02RE1 PDI-049SC-B-02-04-191015 5:18:45 PDI-049SC-E-02-04-191015

#	Name	Resp	RA	n/y	RRF	wt/Avl	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	10.010	23.61		0.000			84.37	0.0988	86.66	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Prsd)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	19.52	6.983e2	6.626e2	0.770	0.80	NO	0.16972	0.16972
2	Total Tetra-Furans	23.61	20.06	1.528e3	1.974e3	0.770	0.77	NO	0.38325	0.38325
3	Total Tetra-Furans	23.61	20.63	1.233e4	1.643e4	0.770	0.75	NO	3.1472	3.1472
4	Total Tetra-Furans	23.61	21.19	4.245e3	5.936e3	0.770	0.72	NO	1.1141	1.1141
5	Total Tetra-Furans	23.61	21.56	2.429e4	3.177e4	0.770	0.78	NO	6.1356	6.1356
6	Total Tetra-Furans	23.61	22.02	9.445e3	1.233e4	0.770	0.77	NO	2.3827	2.3827
7	Total Tetra-Furans	23.61	22.40	4.296e3	5.675e3	0.770	0.76	NO	1.0912	1.0912
8	Total Tetra-Furans	23.61	22.86	6.176e2	9.194e2	0.770	0.67	NO	0.16820	0.16820
9	Total Tetra-Furans	23.61	23.01	4.063e2	5.789e2	0.770	0.70	NO	0.10760	0.10760
10	Total Tetra-Furans	23.61	23.18	3.344e3	4.328e3	0.770	0.77	NO	0.83955	0.83955
11	Total Tetra-Furans	23.61	23.30	2.050e4	2.757e4	0.770	0.74	NO	5.2605	5.2605
12	Total Tetra-Furans	23.61	23.83	9.123e4	1.216e5	0.770	0.75	NO	23.289	23.289
13	Total Tetra-Furans	23.61	24.13	2.939e3	3.920e3	0.770	0.75	NO	0.75063	0.75063
14	Total Tetra-Furans	23.61	24.34	1.132e3	1.286e3	0.770	0.88	NO	0.26484	0.26484
15	Total Tetra-Furans	23.61	24.60	5.449e2	6.742e2	0.770	0.81	NO	0.13342	0.13342
16	Total Tetra-Furans	23.61	24.89	9.322e3	1.290e4	0.770	0.72	NO	2.4314	2.4314
17	2,3,7,8-TCDF	24.82	24.81	1.404e5	1.859e5	0.770	0.76	NO	35.715	35.715
18	Total Tetra-Furans	23.61	25.20	3.743e3	4.300e3	0.770	0.87	NO	0.88019	0.88019
19	Total Tetra-Furans	23.61	25.45	8.428e2	1.381e3	0.770	0.62	YES	0.21202	0.00000
20	Total Tetra-Furans	23.61	26.44	4.090e2	5.918e2	0.770	0.69	NO	0.10953	0.10953
21	Total Tetra-Furans	23.61	26.62	6.042e2	6.272e2	0.770	0.98	YES	0.12148	0.00000
22	Total Tetra-Furans	23.61	26.89	9.041e3	1.009e4	0.770	0.90	YES	1.9519	0.00000



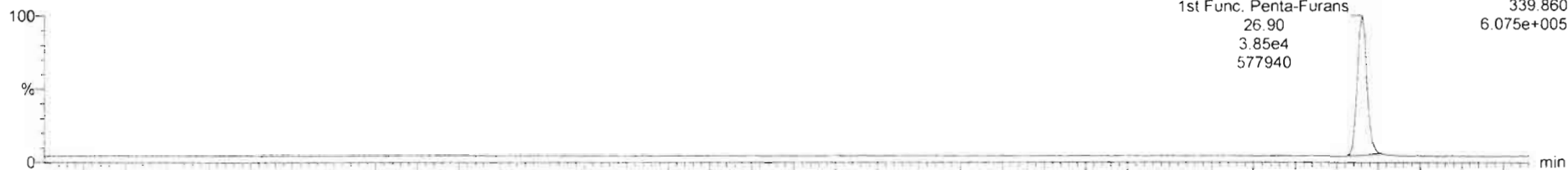
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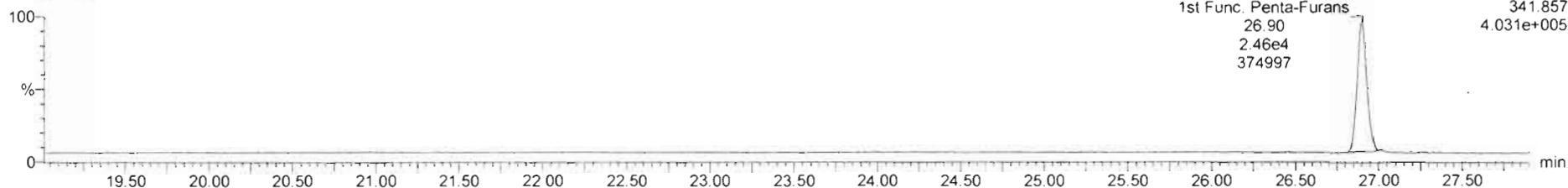
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1st Func. Penta-Furans

200229R1_6

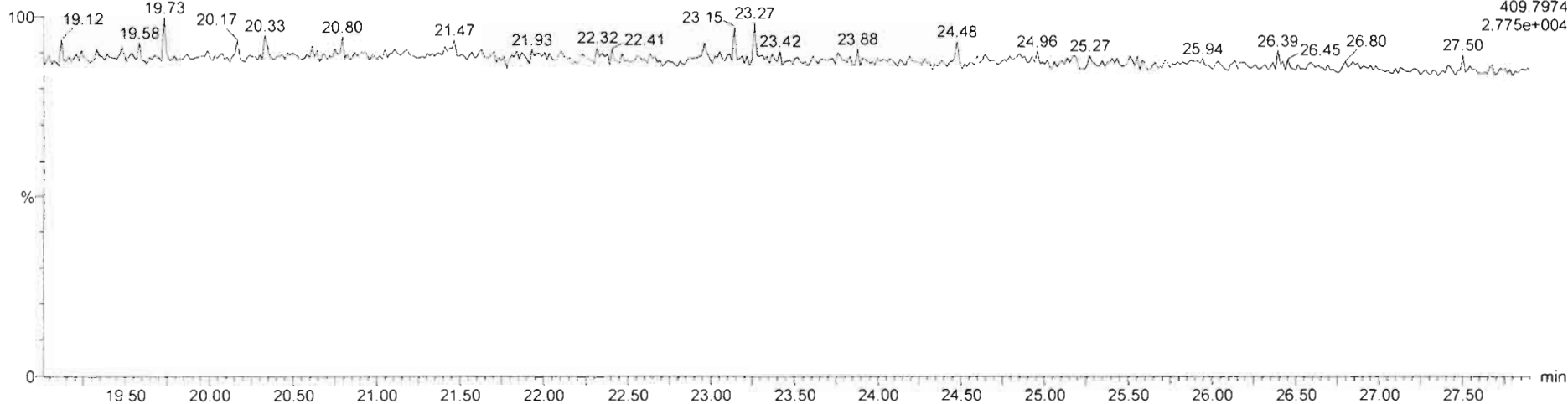


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DPE6

200229R1_6

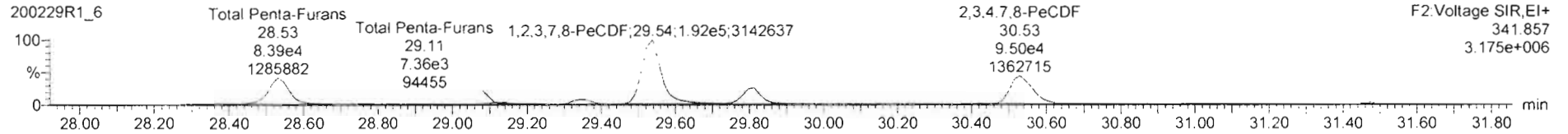
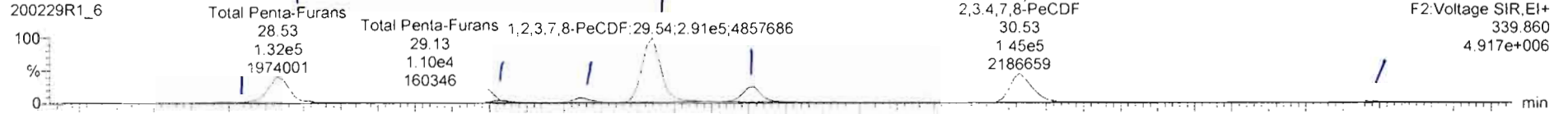


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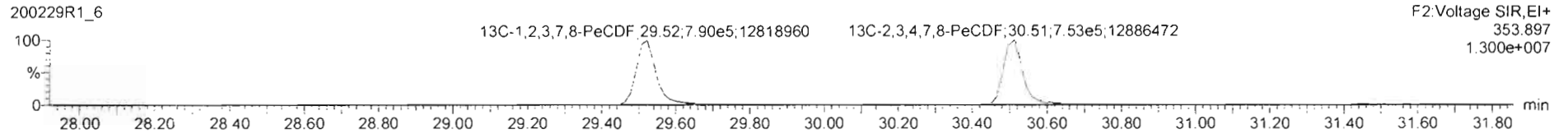
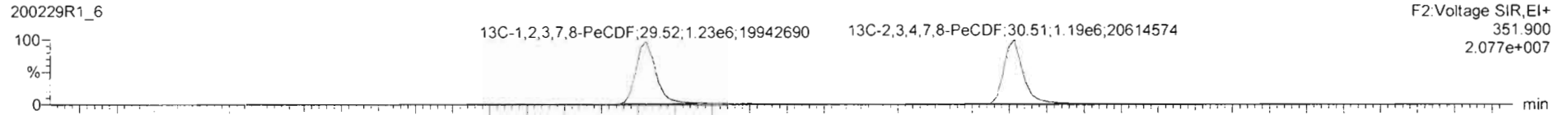
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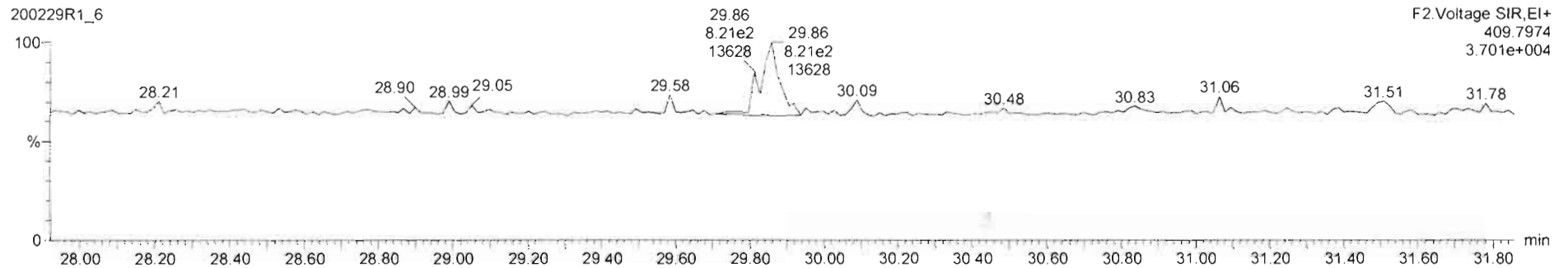
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13C-1,2,3,7,8-PeCDF



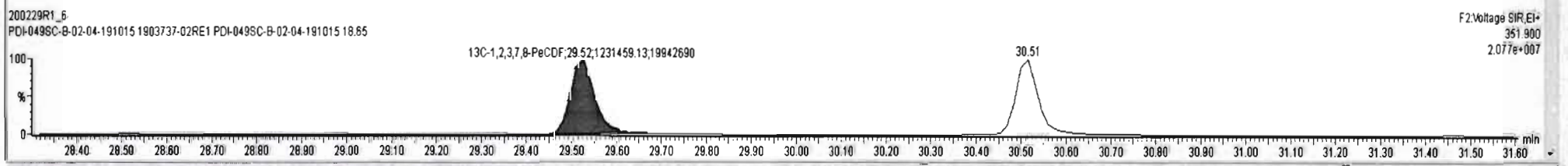
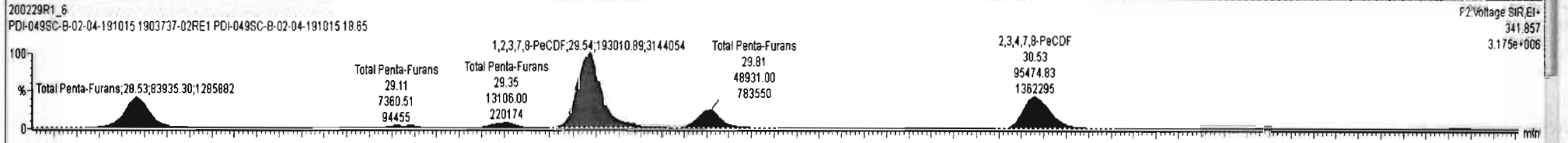
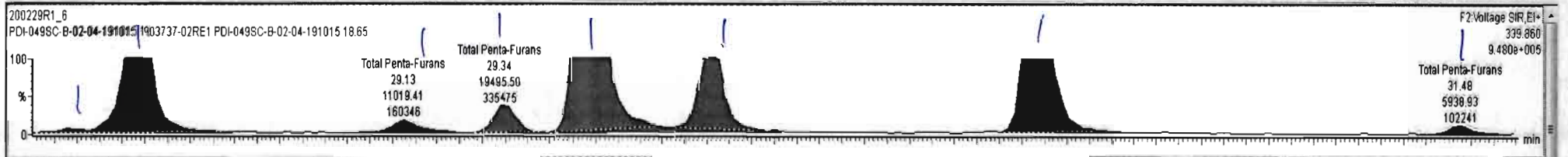
DPE2



200229R1_6 - 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65 PDI-049SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF	wtAvd	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.010	29.27		0.000		NO	125.4		0.196	125.4

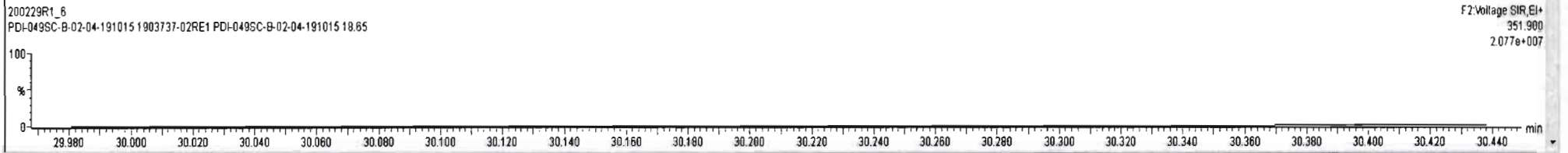
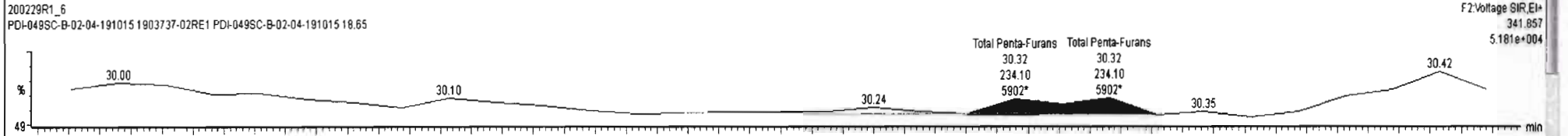
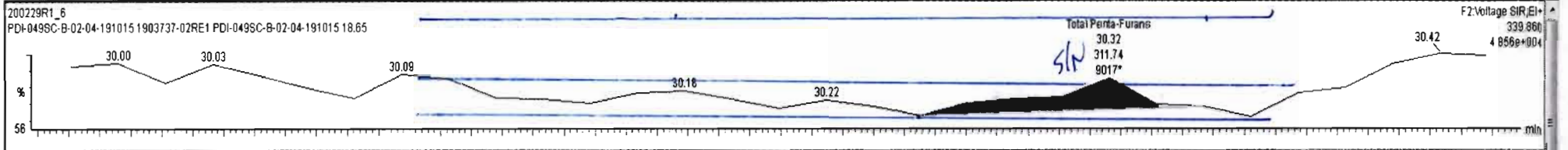
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	29.38	2.504e3	1.443e3	1.550	1.74	NO	0.43898	0.43898
2	45 Total Penta-Furans	29.27	28.53	1.335e5	8.394e4	1.550	1.59	NO	24.178	24.178
3	45 Total Penta-Furans	29.27	29.13	1.102e4	7.361e3	1.550	1.50	NO	2.0441	2.0441
4	45 Total Penta-Furans	29.27	29.34	1.950e4	1.311e4	1.550	1.48	NO	3.6257	3.6257
5	9 1,2,3,7,8-PeCDF	29.54	29.54	2.998e5	1.930e5	1.550	1.55	NO	53.686	53.686
6	45 Total Penta-Furans	29.27	29.81	7.686e4	4.833e4	1.550	1.57	NO	13.989	13.989
7	10 2,3,4,7,8-PeCDF	30.55	30.53	1.480e5	9.547e4	1.550	1.55	NO	26.377	26.377
8	45 Total Penta-Furans	29.27	31.48	5.939e3	4.009e3	1.550	1.48	NO	1.1064	1.1064



200229R1_6 - 1903737-02RE1 PDI-049SC-B-02-04-191015 18:65 PDI-049SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.010	27.09		0.000		NO	7.012		0.0325	7.012

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.38	2.900e3	1.578e3	1.550	1.84	YES	0.44737	0.00000
2	45 Total Penta-Furans	29.27	26.53	1.335e5	8.394e4	1.550	1.59	NO	24.178	24.178
3	45 Total Penta-Furans	29.27	28.13	1.102e4	7.361e3	1.550	1.50	NO	2.0441	2.0441
4	45 Total Penta-Furans	29.27	29.34	1.850e4	1.311e4	1.550	1.49	NO	3.6257	3.6257
6	9 1,2,3,7-β-PeCDF	29.54	29.54	2.907e5	1.930e5	1.550	1.51	NO	52.676	52.676
8	45 Total Penta-Furans	29.27	29.81	6.765e4	4.893e4	1.550	1.38	NO	12.965	12.965
7	45 Total Penta-Furans	29.27	30.32	3.326e2	3.071e2	1.550	1.08	YES	0.060851	0.00000
8	10 2,3,4,7-β-PeCDF	30.55	30.53	1.480e5	9.547e4	1.550	1.55	NO	26.377	26.377
9	45 Total Penta-Furans	29.27	31.48	5.939e3	4.009e3	1.550	1.48	NO	1.1064	1.1064

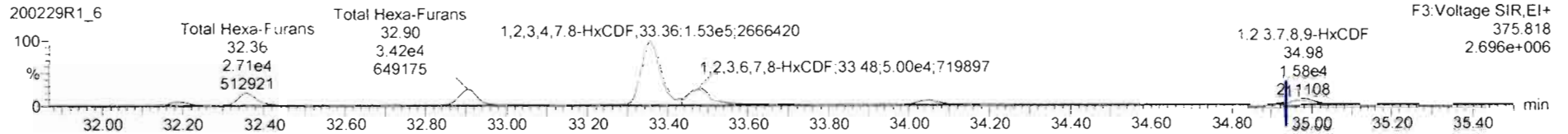
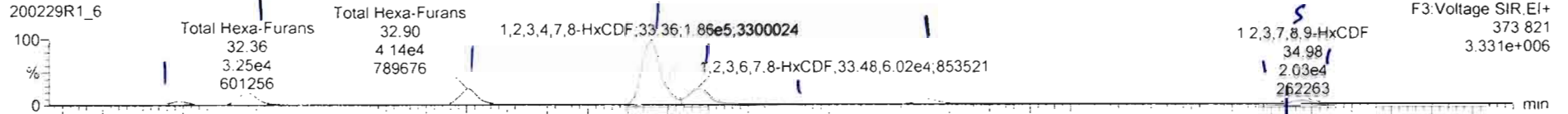


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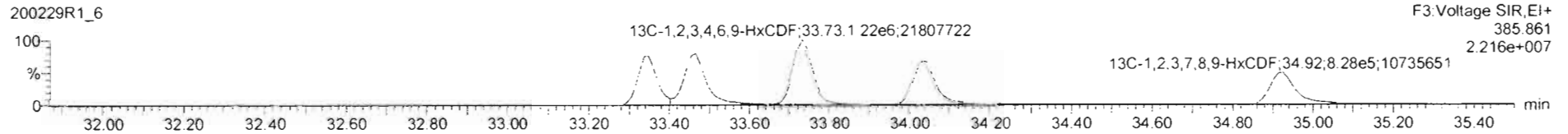
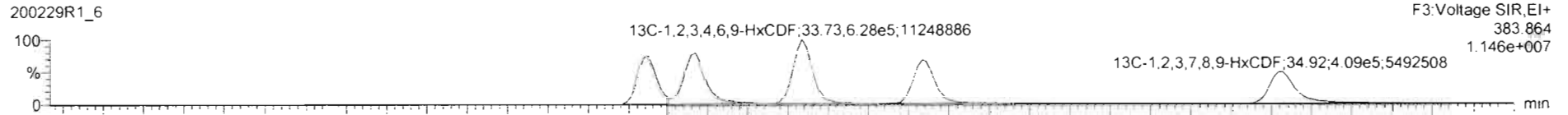
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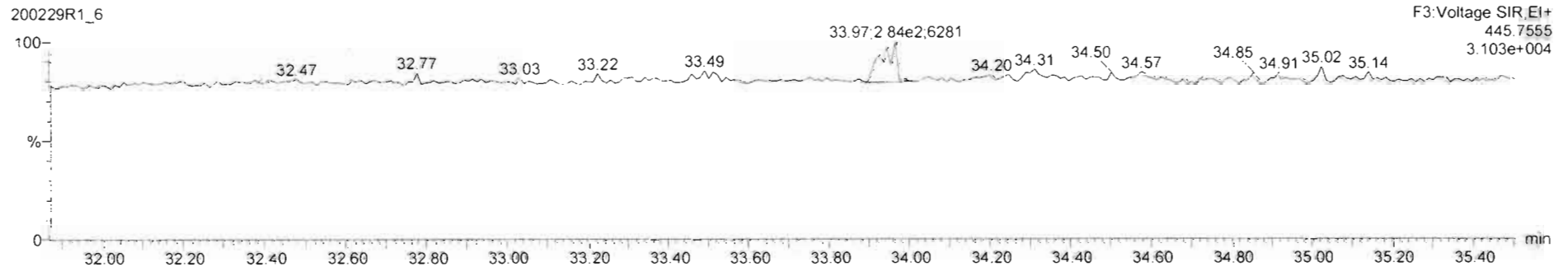
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13C-1,2,3,4,7,8-HxCDF



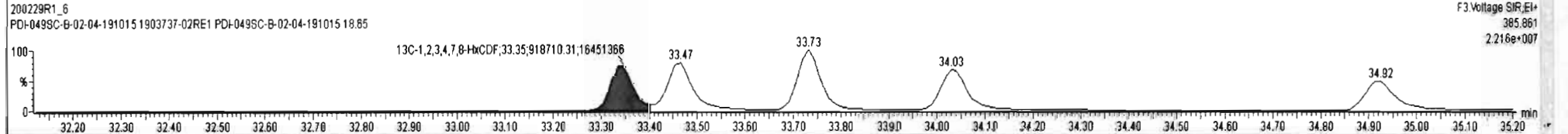
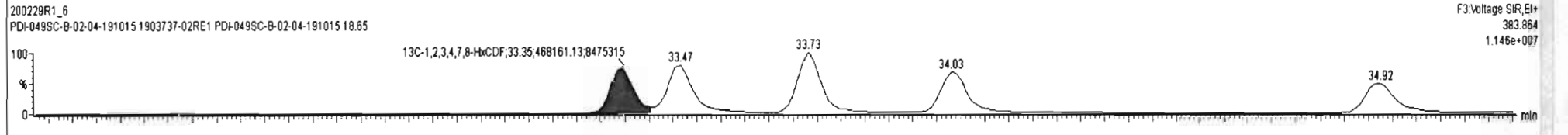
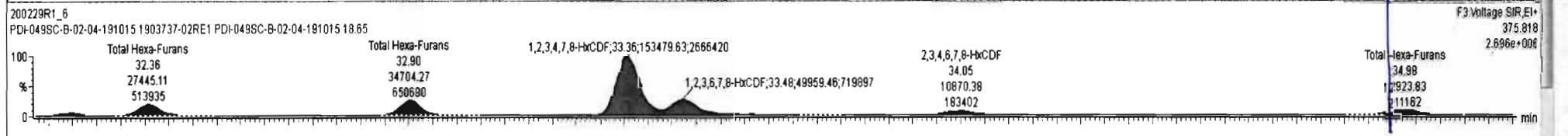
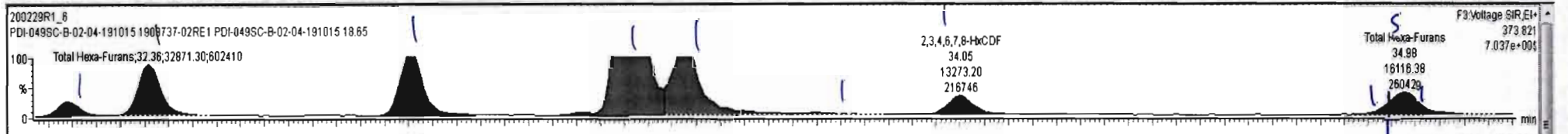
DPE3



200229R1_6_1903737_02RE1_PDI-049SC-B-02-04-191015_18.65_PDI-049SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.010	29.27		0.000		NO	125.4		0.198	125.4
46	Total Hexa-Furans				0.8982	10.010	33.58		0.000		NO	107.1		0.181	107.1
47	Total Hepta-Furans				0.8511	10.010	37.83		0.000		NO	77.66		0.311	77.66

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.19	8.642e3	7.336e3	1.240	1.18	NO	2.5107	2.5107
2	46 Total Hexa-Furans	33.56	32.36	3.287e4	2.745e4	1.240	1.20	NO	9.4763	9.4763
3	46 Total Hexa-Furans	33.56	32.80	4.136e4	3.470e4	1.240	1.19	NO	11.963	11.963
4	46 Total Hexa-Furans	33.56	33.25	1.594e3	1.320e3	1.240	1.21	NO	0.45780	0.45780
5	11 1,2,3,4,7,8-HxCDF	33.35	33.36	1.885e5	1.535e5	1.240	1.21	NO	56.797	56.797
6	12 1,2,3,6,7,8-HxCDF	33.48	33.48	6.037e4	4.986e4	1.240	1.21	NO	15.873	15.873
7	46 Total Hexa-Furans	33.56	33.74	1.484e3	1.109e3	1.240	1.34	NO	0.40740	0.40740
8	13 2,3,4,6,7,8-HxCDF	34.06	34.05	1.327e4	1.087e4	1.240	1.22	NO	3.8864	3.8864
9	14 1,2,3,7,8-HxCDF	34.92	34.95	3.501e3	2.925e3	1.240	1.20	NO	1.2099	1.2099
10	46 Total Hexa-Furans	33.56	34.98	1.812e4	1.292e4	1.240	1.25	NO	4.5625	4.5625



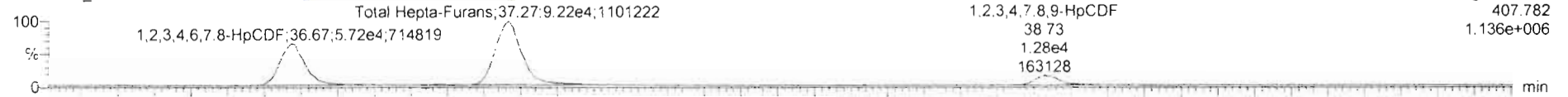
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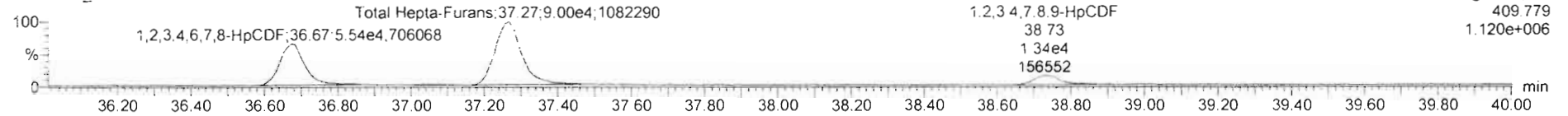
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1,2,3,4,6,7,8-HpCDF

200229R1_6

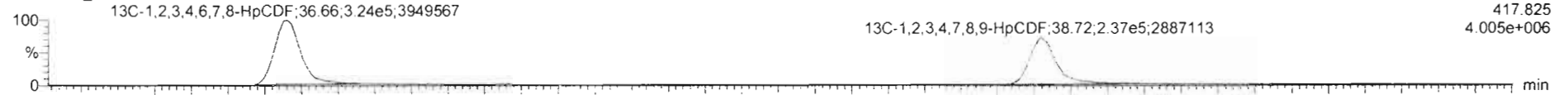


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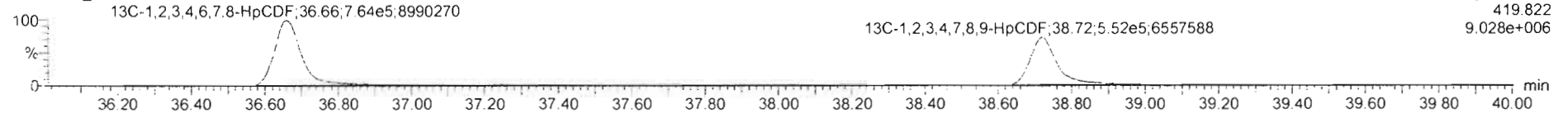


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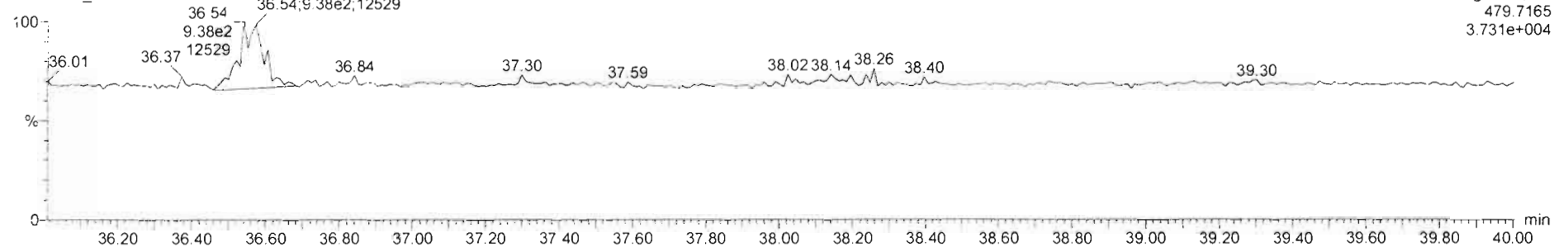


200229R1_6



DPE4

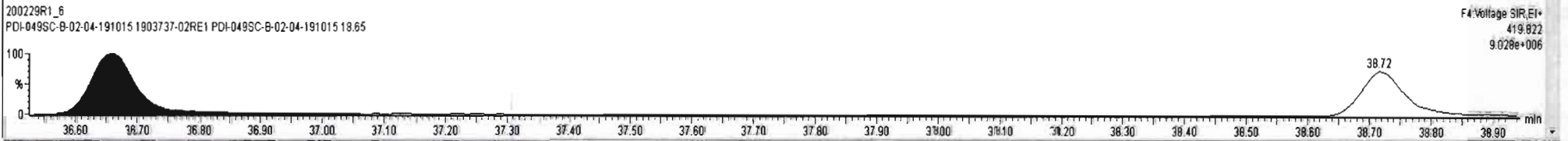
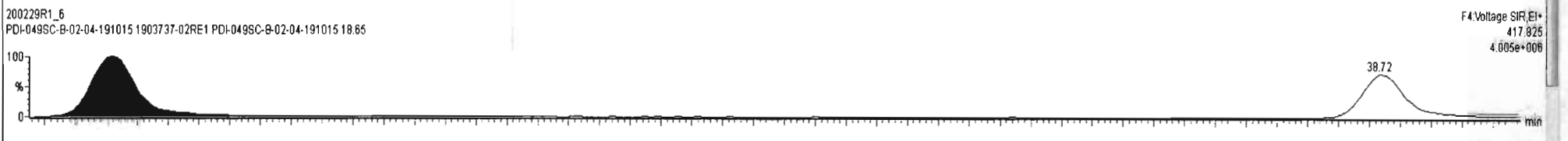
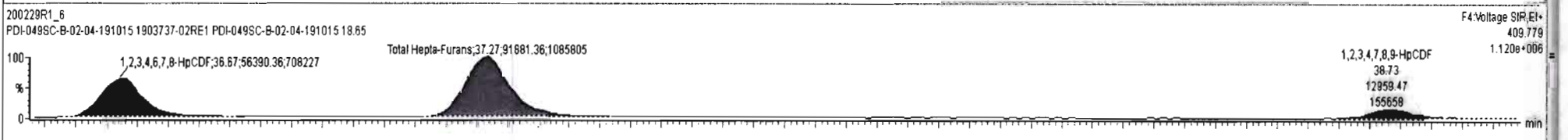
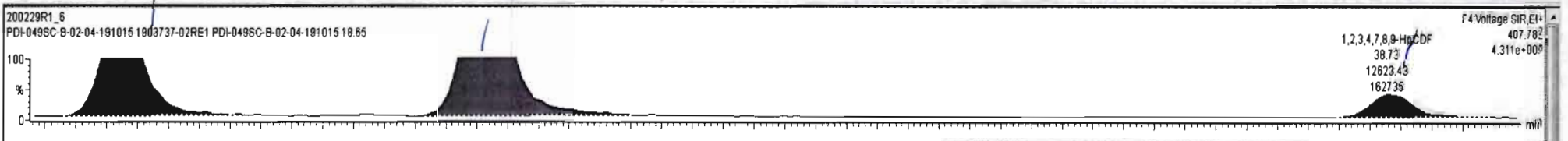
200229R1_6



200229R1_6 - 1903737-02RE - PD-049SC-B-02-04-191015 18.65 - PDI-049SC-B-02-04-191015

#	Name	Resp	RA	n/y	R ²	w/wd	Pred RT	RT	Pred R ₁	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.8982	10.010	33.58		0.000		NO	107.1		0.181	107.1
47	Total Hepta-Furans				0.8511	10.010	37.83		0.000		NO	77.26		0.311	77.26
48	PFK1														

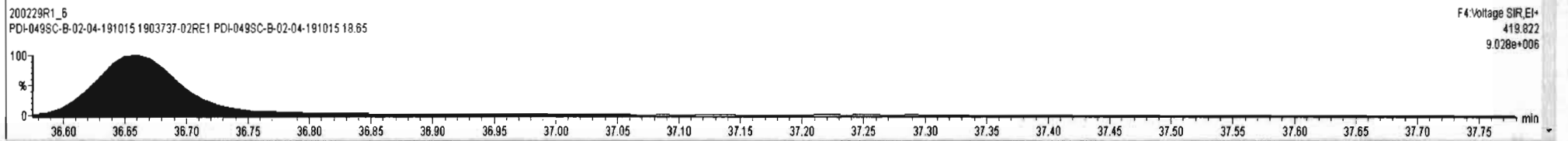
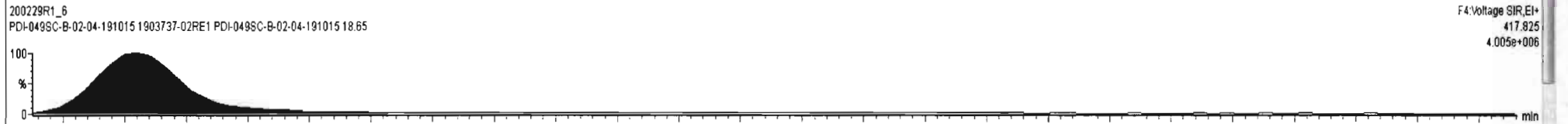
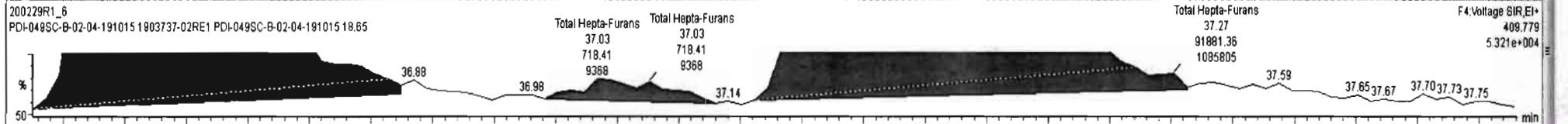
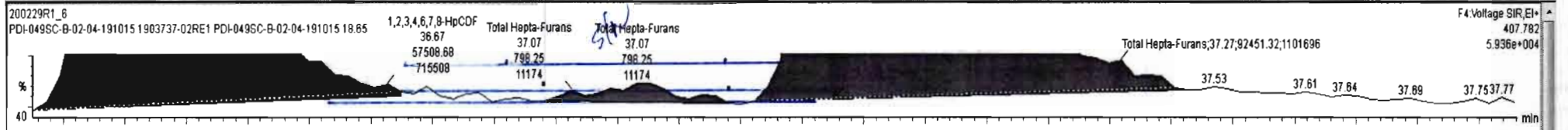
#	Name	Pred RT	RT /	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.70	36.67	5.751e4	5.639e4	1.040	1.02	NO	24.568	24.568
2	Total Hepta-Furans	37.83	37.27	9.245e4	9.188e4	1.040	1.01	NO	46.105	46.105
3	1,2,3,4,7,8,9-HpCDF	38.72	38.73	1.262e4	1.296e4	1.040	0.97	NO	6.6127	6.6127



200229R1_6 - 1903737-02RE1 - PD-049SC-B-02-04-191015 18:65 - PD-049SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF	wt/rd	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.8982	10.010	33.56		0.000		NO	107.1		0.181	107.1
47	Total Hepta-Furans				0.8511	10.010	37.83		0.000		NO	77.86		0.311	77.86
48	PFK1														

#	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	36.70	36.67	5.751e4	5.639e4	1.040	1.02	NO	24.568	24.568
2	Total Hepta-Furans	37.83	37.07	7.983e2	7.184e2	1.040	1.11	NO	0.37934	0.37934
3	Total Hepta-Furans	37.83	37.27	8.245e4	9.188e4	1.040	1.01	NO	46.105	46.105
4	1,2,3,4,7,8,9-HpCDF	38.72	38.73	1.262e4	1.296e4	1.040	0.97	NO	6.6127	6.6127

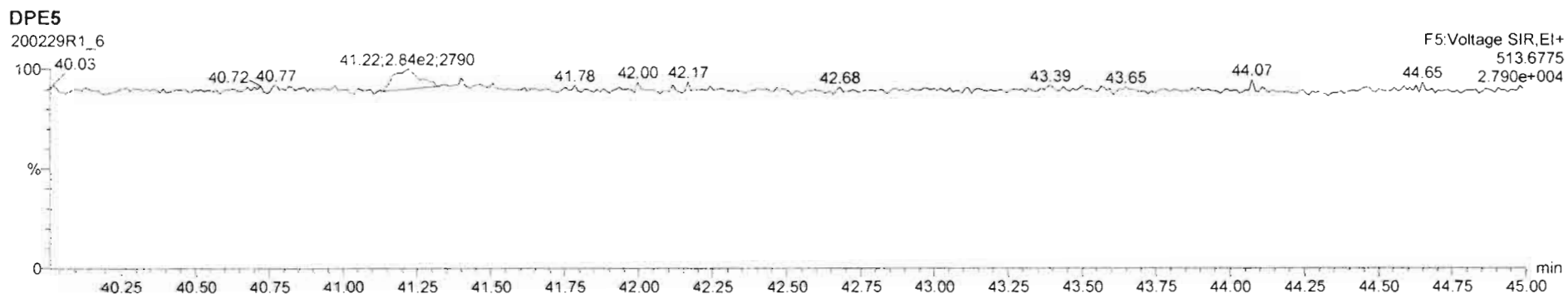
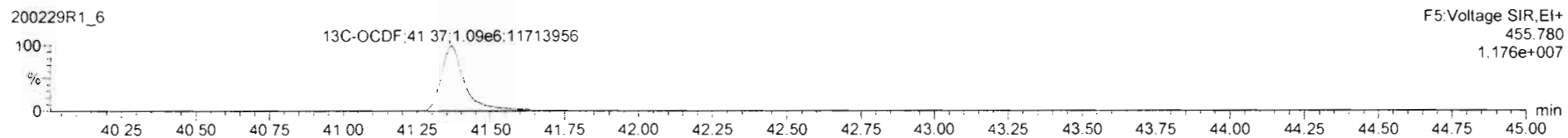
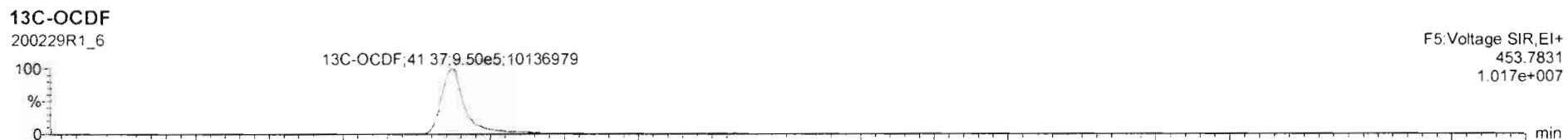
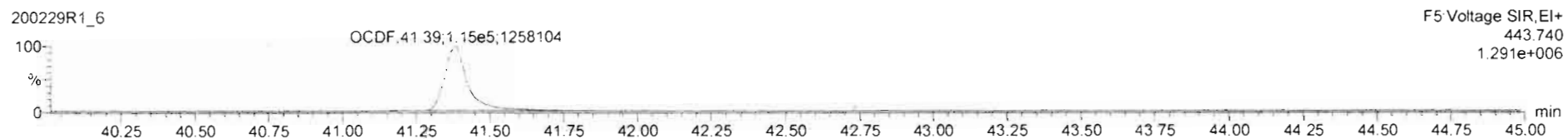


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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_6, Date: 29-Feb-2020, Time: 15:11:38, ID: 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65, Description: PDI-049SC-B-02-04-191015

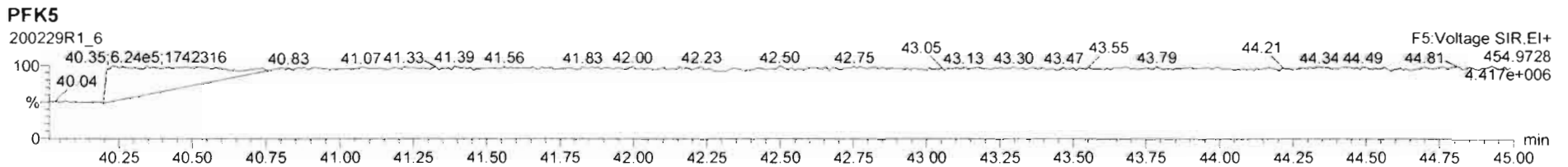
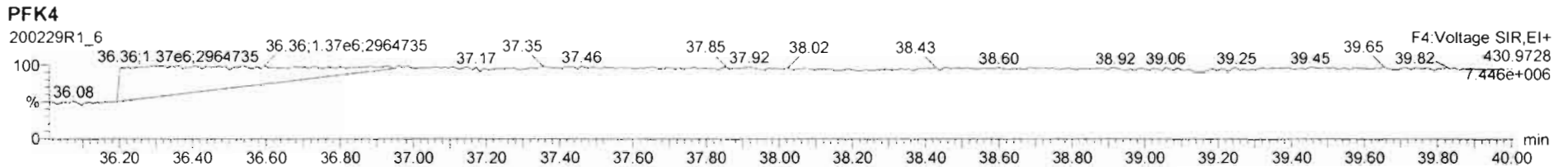
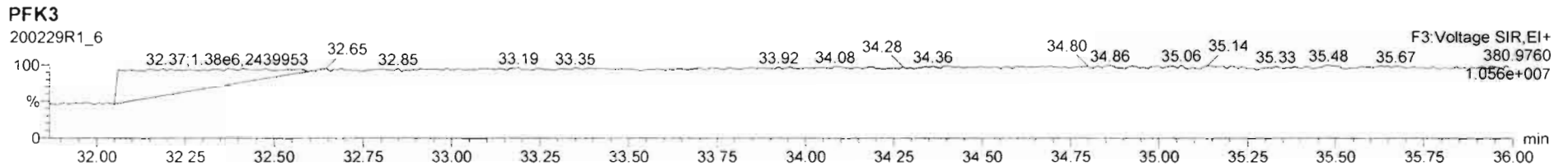
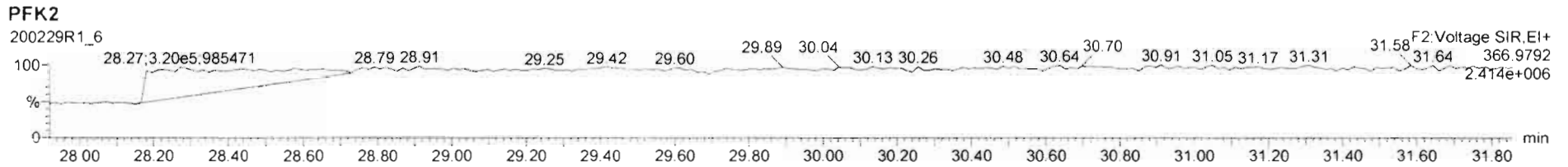
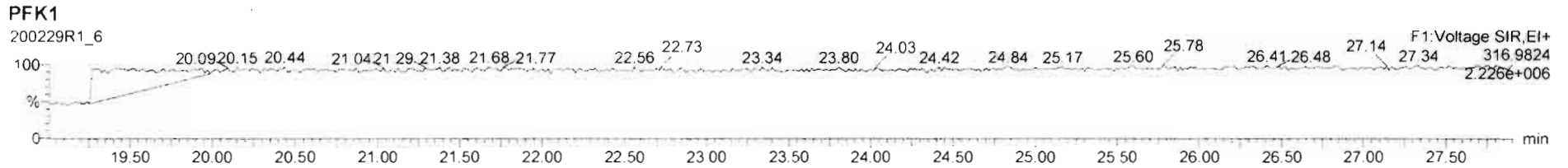


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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_6, Date: 29-Feb-2020, Time: 15:11:38, ID: 1903737-02RE1 PDI-049SC-B-02-04-191015 18.65, Description: PDI-049SC-B-02-04-191015



Dataset: U:\VG12.PRO\Results\200229R1\200229R1-7a.qld

Last Altered: Friday, March 06, 2020 10:50:11 Pacific Standard Time

Printed: Friday, March 06, 2020 11:00:32 Pacific Standard Time

chy 03-06-2020 C703/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

#	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				0.988	10.000	25.77		1.00		NO			0.0886	
2	2 1,2,3,7,8-PeCDD	643.639	0.747	YES	0.972	10.000	30.86	30.85	1.00	1.00	NO	0.1193		0.0861	0.1113
3	3 1,2,3,4,7,8-HxCDD	4504.892	1.270	NO	1.07	10.000	34.22	34.32	1.00	1.00	NO	1.057		0.149	1.057
4	4 1,2,3,6,7,8-HxCDD				0.921	10.000	34.32		1.00		NO			0.158	
5	5 1,2,3,7,8,9-HxCDD	726.651	1.328	NO	0.918	10.000	34.62	34.59	1.00	1.00	NO	0.1737		0.185	0.1737
6	6 1,2,3,4,6,7,8-HpCDD	168493.094	1.037	NO	0.923	10.000	38.09	38.11	1.00	1.00	NO	47.35		0.641	47.35
7	7 OCDD	1516430.7...	0.892	NO	0.975	10.000	41.19	41.20	1.00	1.00	NO	482.5		0.620	482.5
8	8 2,3,7,8-TCDF	10849.862	0.831	NO	0.802	10.000	24.80	24.81	1.00	1.00	NO	1.635 (1.41)		0.112	1.635
9	9 1,2,3,7,8-PeCDF	14947.154	1.438	NO	0.907	10.000	29.54	29.54	1.00	1.00	NO	2.176		0.0865	2.176
10	10 2,3,4,7,8-PeCDF	2793.445	1.589	NO	0.952	10.000	30.54	30.53	1.00	1.00	NO	0.3974		0.0810	0.3974
11	11 1,2,3,4,7,8-HxCDF	18767.152	1.156	NO	0.862	10.000	33.35	33.37	1.00	1.00	NO	4.365		0.117	4.365
12	12 1,2,3,6,7,8-HxCDF	7692.373	1.136	NO	0.841	10.000	33.49	33.48	1.00	1.00	NO	1.529		0.114	1.529
13	13 2,3,4,6,7,8-HxCDF	2930.966	1.294	NO	0.898	10.000	34.08	34.05	1.00	1.00	NO	0.6264		0.119	0.6264
14	14 1,2,3,7,8,9-HxCDF	595.615	1.614	YES	0.858	10.000	34.92	34.95	1.00	1.00	NO	0.1509		0.106	0.1293
15	15 1,2,3,4,6,7,8-HpCDF	44893.529	1.033	NO	0.851	10.000	36.71	36.68	1.00	1.00	NO	13.61		0.236	13.61
16	16 1,2,3,4,7,8,9-HpCDF	3283.010	1.067	NO	0.980	10.000	38.74	38.75	1.00	1.00	NO	1.144		0.299	1.144
17	17 OCDF	40953.299	0.912	NO	0.806	10.000	41.37	41.38	1.00	1.00	NO	13.98		0.203	13.98
18	18 13C-2,3,7,8-TCDD	1347981.9...	0.790	NO	1.20	10.000	25.71	25.74	1.03	1.03	NO	112.5	56.3	0.155	
19	19 13C-1,2,3,7,8-PeCDD	1109988.6...	0.626	NO	0.967	10.000	30.84	30.83	1.23	1.23	NO	114.9	57.4	0.157	
20	20 13C-1,2,3,4,7,8-HxCDD	795918.250	1.278	NO	0.874	10.000	34.21	34.21	1.01	1.01	NO	105.0	52.5	0.302	
21	21 13C-1,2,3,6,7,8-HxCDD	1027403.1...	1.279	NO	1.05	10.000	34.32	34.32	1.02	1.02	NO	113.2	56.6	0.253	
22	22 13C-1,2,3,7,8,9-HxCDD	911295.250	1.284	NO	0.974	10.000	34.62	34.58	1.03	1.02	NO	107.8	53.9	0.271	
23	23 13C-1,2,3,4,6,7,8-HpCDD	771046.407	1.081	NO	0.747	10.000	38.20	38.08	1.13	1.13	NO	118.9	59.5	0.326	
24	24 13C-OCDD	1290050.5...	0.912	NO	0.707	10.000	41.10	41.19	1.22	1.22	NO	210.5	52.6	0.382	
25	25 13C-2,3,7,8-TCDF	1655316.8...	0.788	NO	1.07	10.000	24.89	24.78	0.99	0.99	NO	111.2	55.6	0.255	
26	26 13C-1,2,3,7,8-PeCDF	1514193.5...	1.584	NO	1.00	10.000	29.47	29.52	1.18	1.18	NO	108.1	54.1	0.374	
27	27 13C-2,3,4,7,8-PeCDF	1477320.1...	1.586	NO	0.962	10.000	30.44	30.51	1.21	1.22	NO	109.9	54.9	0.390	
28	28 13C-1,2,3,4,7,8-HxCDF	997294.250	0.512	NO	1.05	10.000	33.34	33.35	0.99	0.99	NO	109.6	54.8	0.391	
29	29 13C-1,2,3,6,7,8-HxCDF	1196302.2...	0.513	NO	1.19	10.000	33.44	33.48	0.99	0.99	NO	115.9	57.9	0.345	
30	30 13C-2,3,4,6,7,8-HxCDF	1041931.3...	0.515	NO	1.07	10.000	34.05	34.04	1.01	1.01	NO	112.6	56.3	0.385	
31	31 13C-1,2,3,7,8,9-HxCDF	920083.626	0.490	NO	0.922	10.000	34.96	34.92	1.04	1.04	NO	115.0	57.5	0.445	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-7a.qld

Last Altered: Friday, March 06, 2020 10:50:11 Pacific Standard Time

Printed: Friday, March 06, 2020 11:00:32 Pacific Standard Time

Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	775188.688	0.439	NO	0.767	10.000	36.71	36.67	1.09	1.09	NO	116.5	58.2	0.437	
33	33 13C-1,2,3,4,7,8,9-HpCDF	585733.235	0.432	NO	0.552	10.000	38.74	38.74	1.15	1.15	NO	122.2	61.1	0.606	
34	34 13C-OCDF	1455169.0...	0.926	NO	0.789	10.000	41.33	41.37	1.23	1.23	NO	212.5	53.1	0.273	
35	35 37Cl-2,3,7,8-TCDD	775941.500			1.18	10.000	25.74	25.75	1.03	1.03	NO	66.00	82.5	0.0446	
36	36 13C-1,2,3,4-TCDD	1999048.6...	0.792	NO	1.00	10.000	25.11	25.06	1.00	1.00	NO	200.0	100	0.186	
37	37 13C-1,2,3,4-TCDF	2795591.3...	0.798	NO	1.00	10.000	23.37	23.28	1.00	1.00	NO	200.0	100	0.272	
38	38 13C-1,2,3,4,6,9-HxCDF	1735262.5...	0.515	NO	1.00	10.000	33.71	33.74	1.00	1.00	NO	200.0	100	0.410	
39	39 Total Tetra-Dioxins				0.988	10.000	24.62		0.00		NO	0.2521		0.0886	0.2521
40	40 Total Penta-Dioxins				0.972	10.000	29.96		0.00		NO	0.8505		0.0861	0.9618
41	41 Total Hexa-Dioxins				0.921	10.000	33.63		0.00		NO	12.91		0.171	12.91
42	42 Total Hepta-Dioxins				0.923	10.000	37.64		0.00		NO	106.5		0.641	106.5
43	43 Total Tetra-Furans				0.802	10.000	23.61		0.00		NO	7.626		0.112	7.626
44	44 1st Func. Penta-Furans				0.907	10.000	27.09		0.00		NO	4.509		0.0449	4.509
45	45 Total Penta-Furans				0.907	10.000	29.27		0.00		NO	8.438		0.0858	8.438
46	46 Total Hexa-Furans				0.898	10.000	33.56		0.00		NO	18.58		0.123	18.71
47	47 Total Hepta-Furans				0.851	10.000	37.83		0.00		NO	32.12		0.282	32.12

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-7a.qld

Last Altered: Friday, March 06, 2020 10:50:11 Pacific Standard Time

Printed: Friday, March 06, 2020 11:00:46 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	1.68e3	1.35e6	0.671	NO	24.62	21.57	0.2521	0.2521

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	3.11e3	1.11e6	0.538	NO	29.96	28.59	0.5758	0.5758
2	40 Total Penta-Dioxins	1.48e3	1.11e6	0.676	NO	29.96	29.58	0.2747	0.2747
3	2 1,2,3,7,8-PeCDD	6.44e2	1.11e6	0.747	YES	30.86	30.85	0.0000	0.1113

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	2.34e4	0.00e0	1.276	NO	33.63	32.75	5.586	5.586
2	41 Total Hexa-Dioxins	2.25e3	0.00e0	1.189	NO	33.63	33.29	0.5367	0.5367
3	41 Total Hexa-Dioxins	2.25e4	0.00e0	1.210	NO	33.63	33.56	5.369	5.369
4	3 1,2,3,4,7,8-HxCDD	4.50e3	7.96e5	1.270	NO	34.22	34.32	1.057	1.057
5	41 Total Hexa-Dioxins	7.99e2	0.00e0	1.082	NO	33.63	34.51	0.1904	0.1904
6	5 1,2,3,7,8,9-HxCDD	7.27e2	9.11e5	1.328	NO	34.62	34.59	0.1737	0.1737

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	2.10e5	7.71e5	1.033	NO	37.64	37.06	59.13	59.13
2	6 1,2,3,4,6,7,8-HpCDD	1.68e5	7.71e5	1.037	NO	38.09	38.11	47.35	47.35

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-7a.qld

Last Altered: Friday, March 06, 2020 10:50:11 Pacific Standard Time

Printed: Friday, March 06, 2020 11:00:46 Pacific Standard Time

Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	7.52e3	1.66e6	0.720	NO	23.61	20.62	1.132	1.132
2	43 Total Tetra-Furans	5.59e3	1.66e6	0.697	NO	23.61	21.56	0.8423	0.8423
3	43 Total Tetra-Furans	4.33e3	1.66e6	0.779	NO	23.61	22.04	0.6529	0.6529
4	43 Total Tetra-Furans	3.17e3	1.66e6	0.811	NO	23.61	23.16	0.4780	0.4780
5	43 Total Tetra-Furans	2.65e3	1.66e6	0.680	NO	23.61	23.28	0.3991	0.3991
6	43 Total Tetra-Furans	1.15e4	1.66e6	0.766	NO	23.61	23.82	1.735	1.735
7	43 Total Tetra-Furans	1.34e3	1.66e6	0.850	NO	23.61	24.69	0.2024	0.2024
8	8 2,3,7,8-TCDF	1.08e4	1.66e6	0.831	NO	24.80	24.81	1.635	1.635
9	43 Total Tetra-Furans	1.15e3	1.66e6	0.782	NO	23.61	26.60	0.1738	0.1738
10	43 Total Tetra-Furans	2.49e3	1.66e6	0.765	NO	23.61	26.90	0.3754	0.3754

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	3.06e4	0.00e0	1.553	NO	27.09	26.90	4.509	4.509

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	1.71e4	0.00e0	1.559	NO	29.27	28.53	2.514	2.514
2	45 Total Penta-Furans	4.99e3	0.00e0	1.408	NO	29.27	29.14	0.7355	0.7355
3	45 Total Penta-Furans	1.82e3	0.00e0	1.506	NO	29.27	29.35	0.2680	0.2680
4	9 1,2,3,7,8-PeCDF	1.49e4	1.51e6	1.438	NO	29.54	29.54	2.176	2.176
5	45 Total Penta-Furans	6.97e3	0.00e0	1.492	NO	29.27	29.81	1.028	1.028
6	10 2,3,4,7,8-PeCDF	2.79e3	1.48e6	1.589	NO	30.54	30.53	0.3974	0.3974
7	45 Total Penta-Furans	8.96e3	0.00e0	1.464	NO	29.27	30.55	1.320	1.320

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-7a.qld

Last Altered: Friday, March 06, 2020 10:50:11 Pacific Standard Time

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Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	7.66e3	0.00e0	1.243	NO	33.56	32.20	1.641	1.641
2	46 Total Hexa-Furans	1.89e4	0.00e0	1.202	NO	33.56	32.36	4.051	4.051
3	46 Total Hexa-Furans	2.79e4	0.00e0	1.275	NO	33.56	32.91	5.973	5.973
4	11 1,2,3,4,7,8-HxCDF	1.88e4	9.97e5	1.156	NO	33.35	33.37	4.365	4.365
5	12 1,2,3,6,7,8-HxCDF	7.69e3	1.20e6	1.136	NO	33.49	33.48	1.529	1.529
6	13 2,3,4,6,7,8-HxCDF	2.93e3	1.04e6	1.294	NO	34.08	34.05	0.6264	0.6264
7	14 1,2,3,7,8,9-HxCDF	5.96e2	9.20e5	1.614	YES	34.92	34.95	0.0000	0.1293
8	46 Total Hexa-Furans	1.85e3	0.00e0	1.251	NO	33.56	35.00	0.3962	0.3962

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	4.49e4	7.75e5	1.033	NO	36.71	36.68	13.61	13.61
2	47 Total Hepta-Furans	5.03e4	0.00e0	0.976	NO	37.83	37.27	17.36	17.36
3	16 1,2,3,4,7,8,9-HpCDF	3.28e3	5.86e5	1.067	NO	38.74	38.75	1.144	1.144

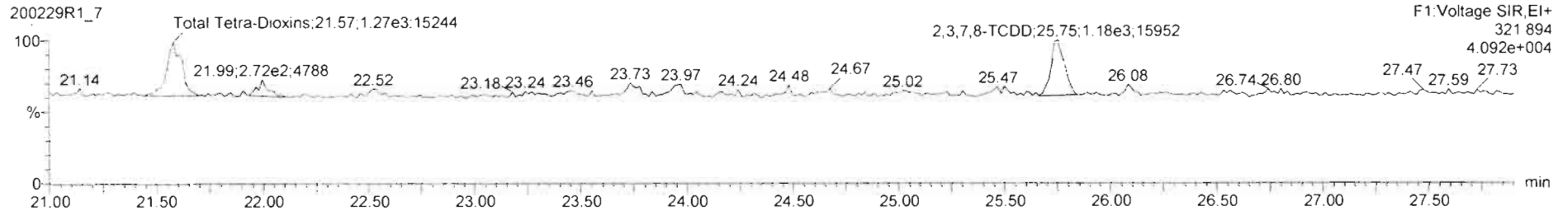
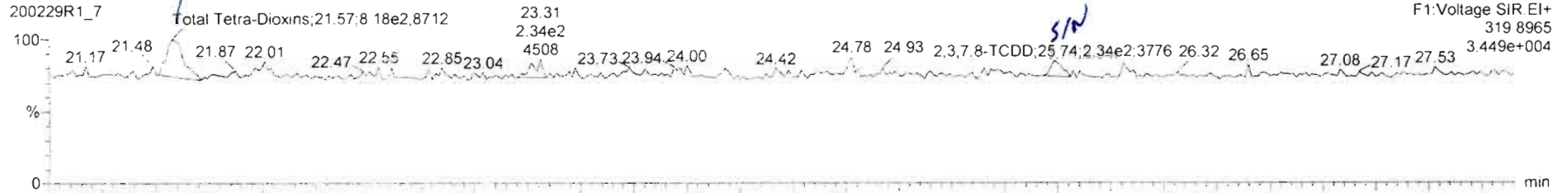
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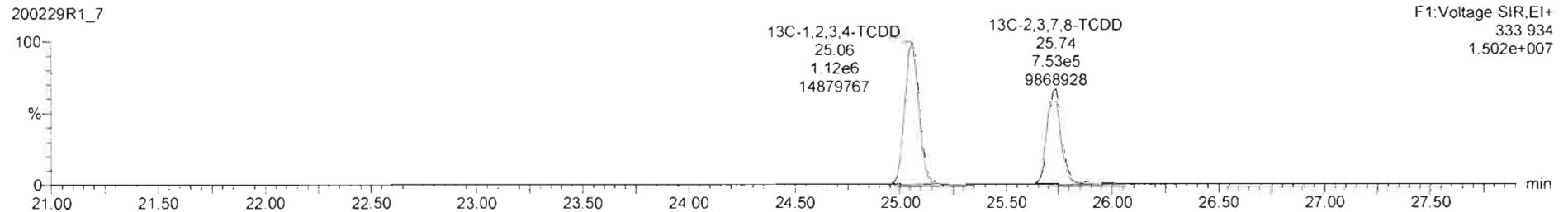
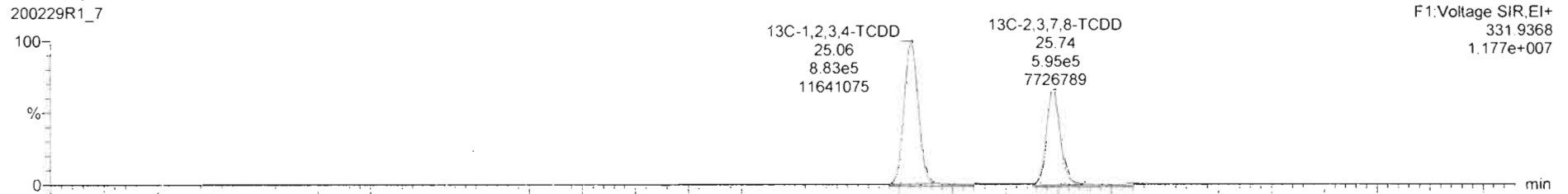
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Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

2,3,7,8-TCDD



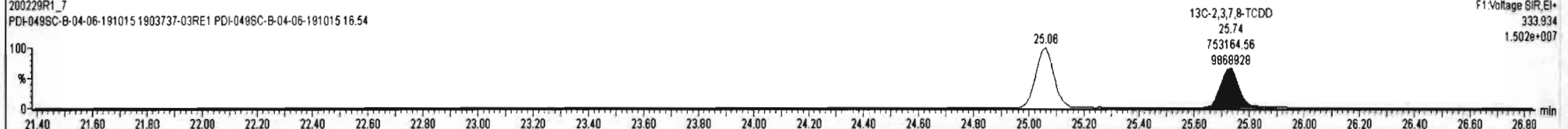
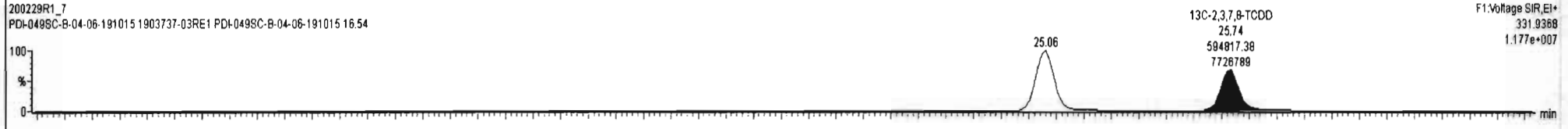
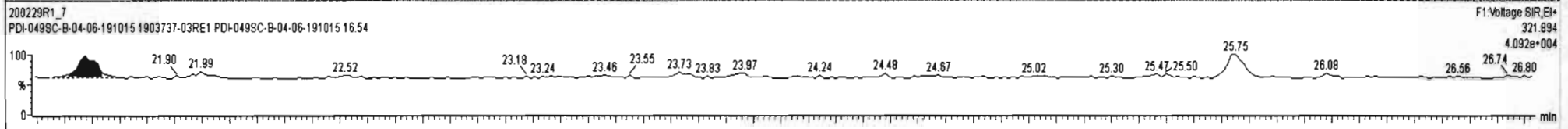
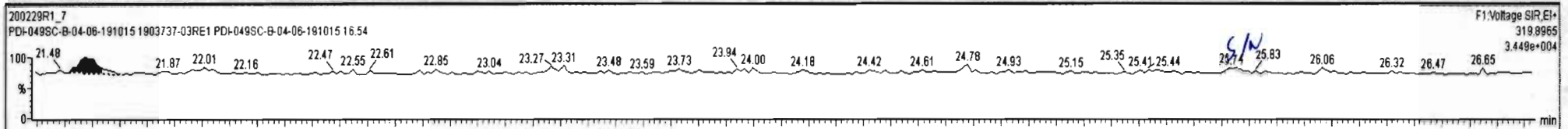
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200229R1_7 - 1903737-03RE1 - PDI-049SC-B-04-06-191015 16:54 - PDI-049SC-B-04-06-191015

#	Name	Resp	RA	nNy	RPF	wtVcl	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9891	10.000	24.62		0.000		NO	0.2521		0.0896	0.2521
40	Total Penta-Dioxins				0.9723	10.000	29.96		0.000		NO	0.8946		0.0861	1.280
41	Total Hexa-Dioxins				0.9211	10.000	33.63		0.000		NO	12.32		0.171	12.93

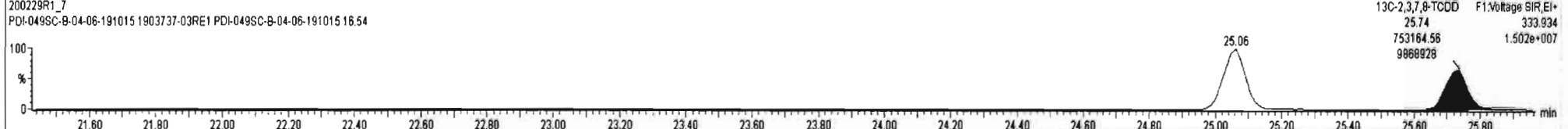
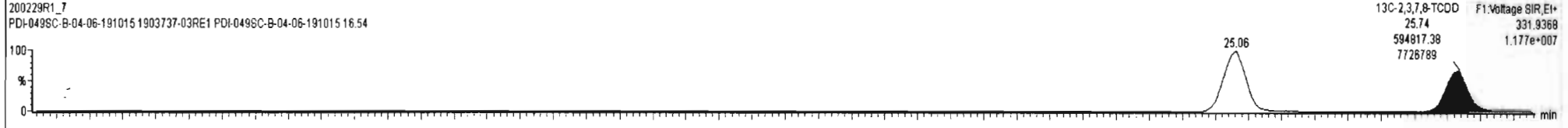
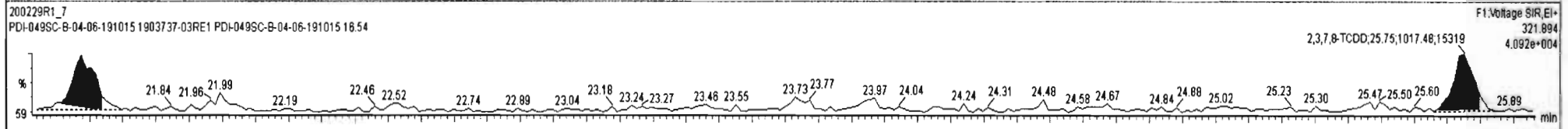
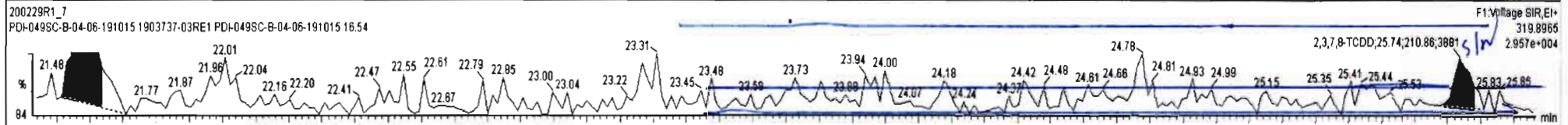
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nNy	EMPC	Conc.
39	Total Tetra-Dioxins	24.62	21.57	6.744e2	1.005e3	0.770	0.67	NO	0.25213	0.25213



200229R1_7 - 1903737-03RE1 PDI-049SC-B-04-06-191015 16:54 - FDI-049SC-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.000	24.82		0.000		NO	0.2521		0.0886	0.3249
40	Total Penta-Dioxins				0.9723	10.000	29.96		0.000		NO	0.8946		0.0861	1.280
41	Total Hexa-Dioxins				0.9211	10.000	33.63		0.000		NO	12.32		0.171	12.93

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.82	21.57	6.744e2	1.005e3	0.770	0.87	NO	0.25213	0.25213
2	1 2,3,7,8-TCDD	25.77	25.74	2.108e2	1.017e3	0.770	0.21	YES	0.072787	0.00000



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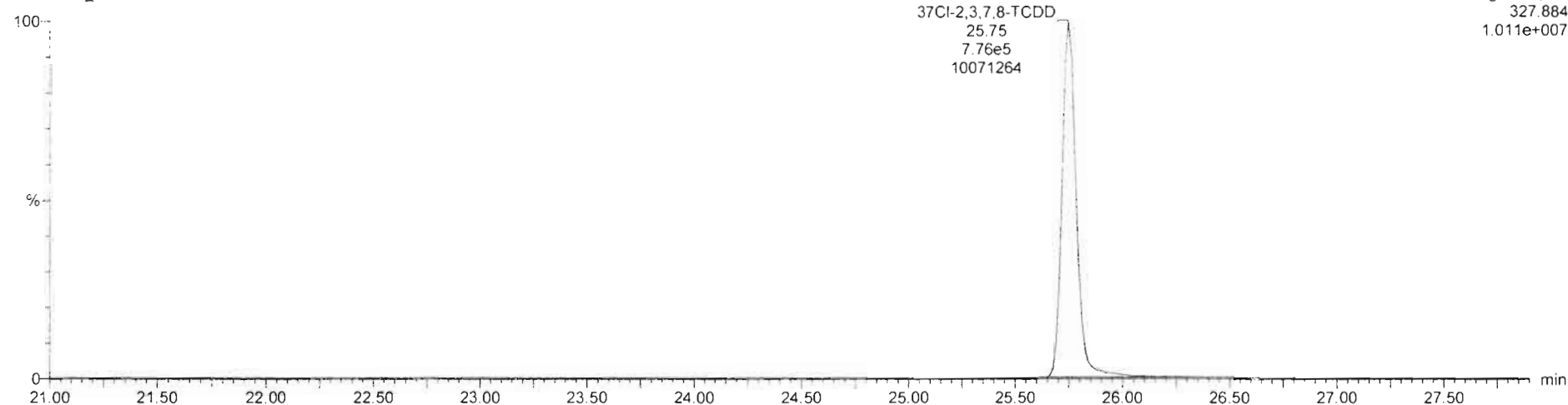
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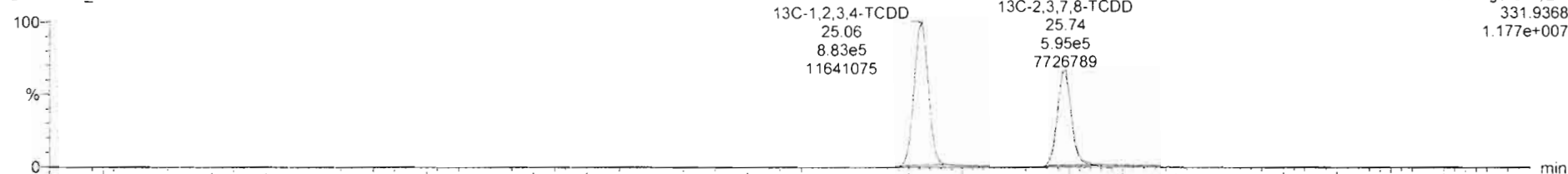
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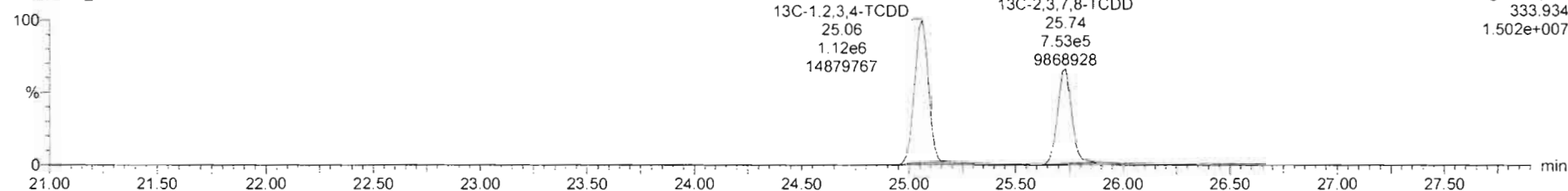


13C-1,2,3,4-TCDD

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200229R1_7

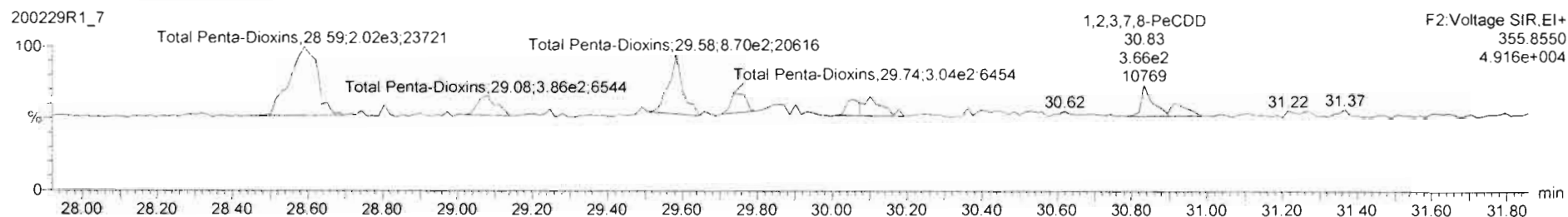
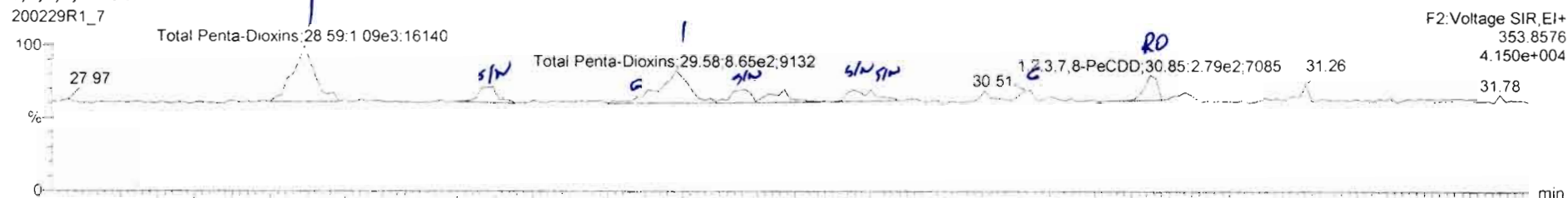


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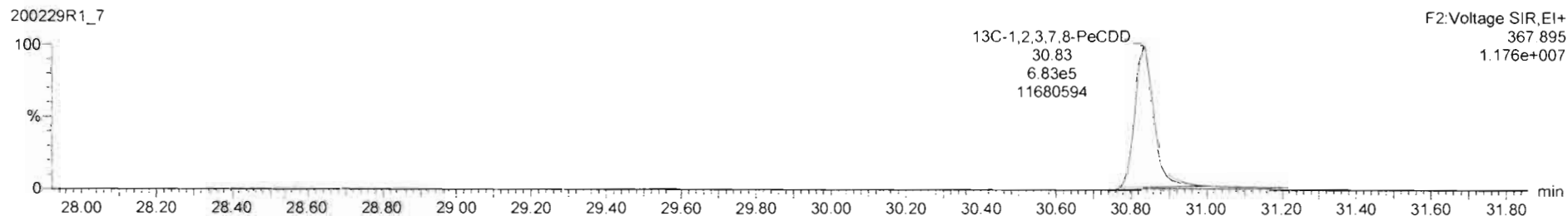
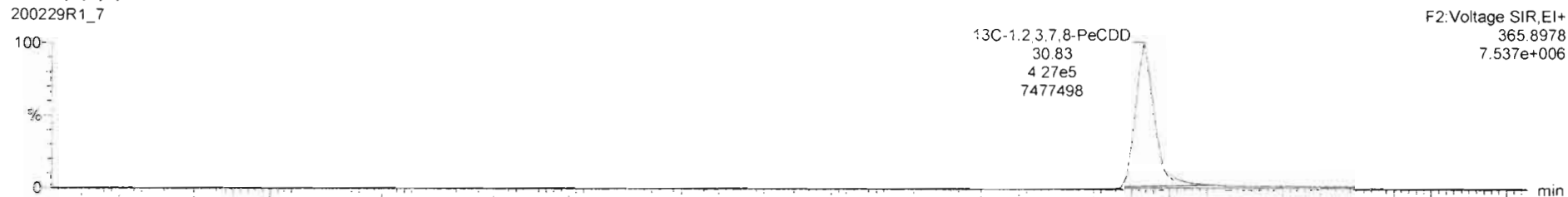
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1,2,3,7,8-PeCDD



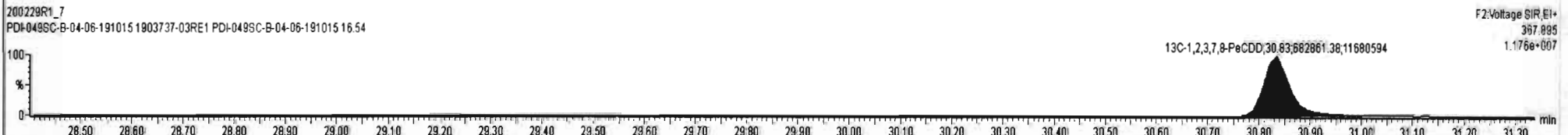
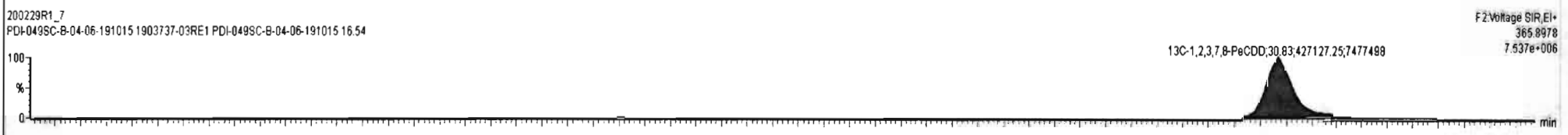
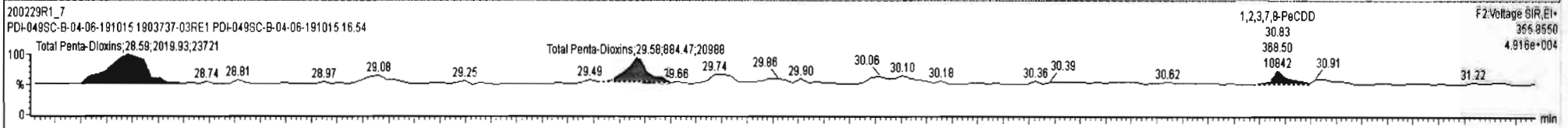
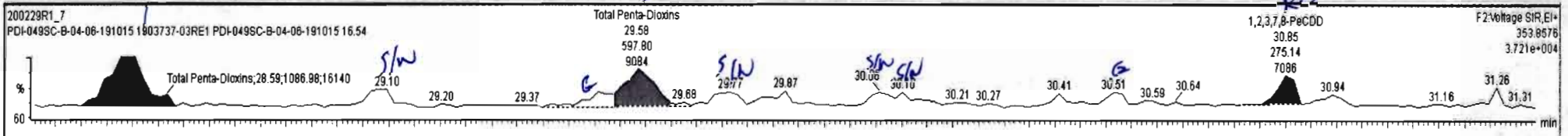
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200229R1_7: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54 - PDI-049SC-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	w/Std	Pred.RT	RT	Pred.RT	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.000	24.62		0.000		NO	0.2521		0.0886	0.2521
40	Total Penta-Dioxins				0.9723	10.000	29.96		0.000		NO	0.8905		0.0861	0.8916
41	Total Hexa-Dioxins				0.9211	10.000	33.63		0.000		NO	12.32		0.171	12.93

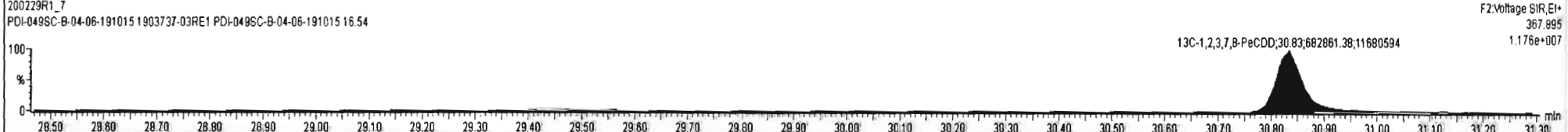
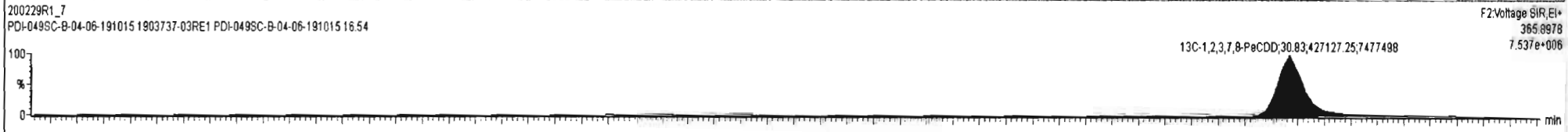
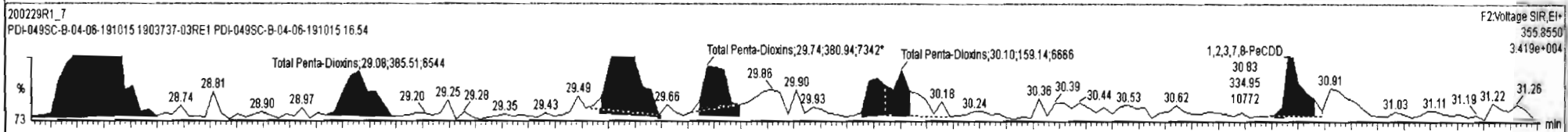
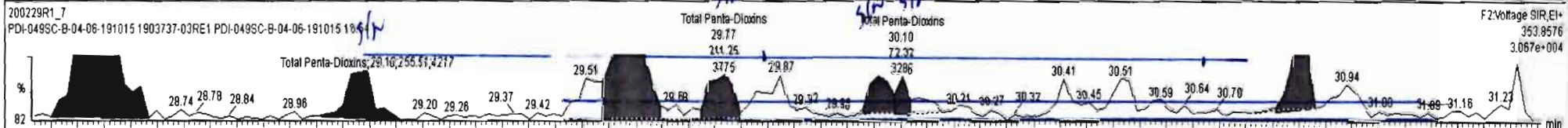
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	28.59	1.087e3	2.020e3	0.630	0.54	NO	0.57579	0.57579
2	40 Total Penta-Dioxins	29.96	29.58	5.978e2	8.845e2	0.630	0.88	NO	0.27470	0.27470
3	2 1,2,3,7,8-PeCDD	30.86	30.85	2.751e2	3.895e2	0.630	0.75	YES	0.11132	0.00000



200229R1_7_1903737-03RE1 PDI-049SC-B-04-06-191015 16:54 PDI-049SC-B-04-06-191015

#	Name	Resp	RA	rvy	RRF	wAval	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.000	24.62		0.000		NO	0.2521		0.0896	0.2521
40	Total Penta-Dioxins				0.9723	10.000	29.96		0.000		NO	0.9693		0.0661	1.264
41	Total Hexa-Dioxins				0.9211	10.000	33.63		0.000		NO	12.32		0.171	12.93

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	** Ratio (Pred)	RA	rvy	EMPC	Conc.
1	Total Penta-Dioxins	29.96	28.59	1.067e3	2.020e3	0.630	0.54	NO	0.57579	0.57579
2	Total Penta-Dioxins	29.96	28.10	2.555e2	3.855e2	0.630	0.66	NO	0.11880	0.11880
3	Total Penta-Dioxins	29.96	29.58	5.979e2	8.845e2	0.630	0.68	NO	0.27470	0.27470
4	Total Penta-Dioxins	29.96	29.77	2.113e2	2.783e2	0.630	0.76	YES	0.084056	0.00000
5	Total Penta-Dioxins	29.96	30.06	1.456e2	2.570e2	0.630	0.57	NO	0.074598	0.00000
6	Total Penta-Dioxins	29.96	30.10	7.232e1	1.591e2	0.630	0.45	YES	0.034678	0.00000
7	2,1,2,3,7,8-PeCDD	30.86	30.85	2.795e2	3.349e2	0.630	0.83	YES	0.10118	0.00000



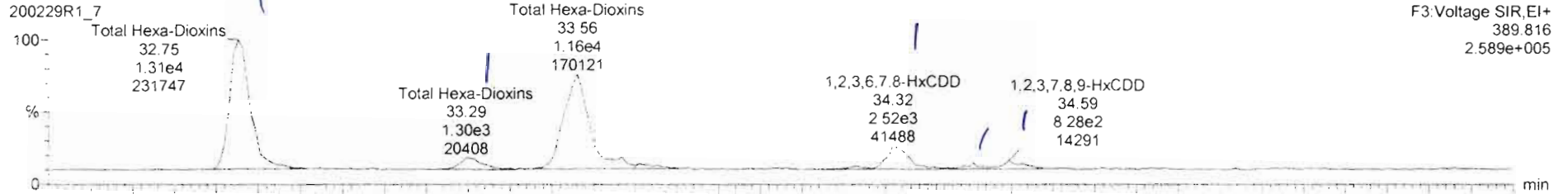
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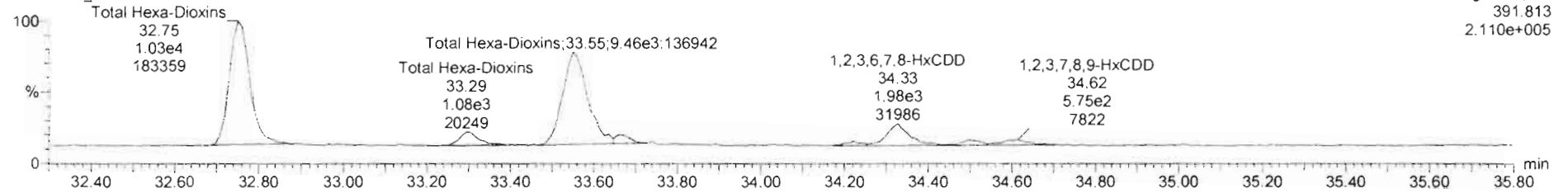
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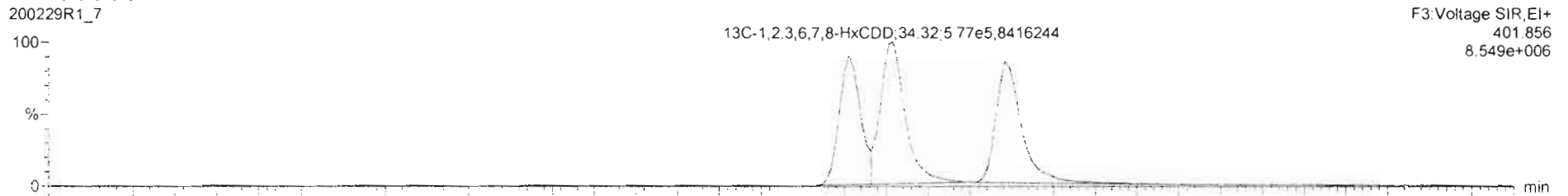
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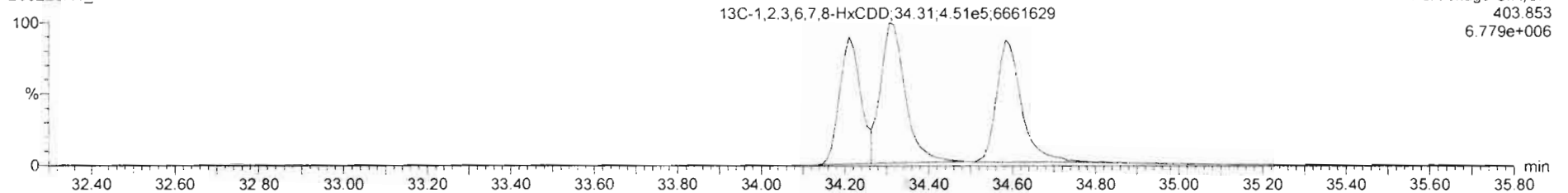
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13C-1,2,3,4,7,8-HxCDD

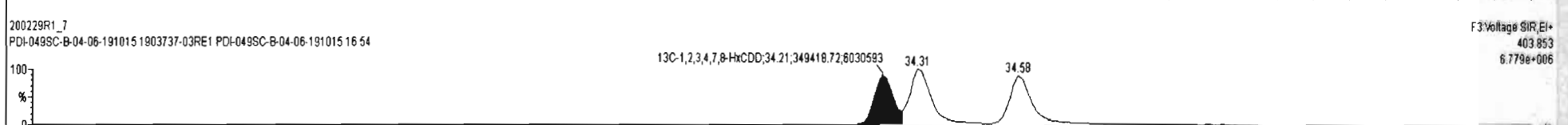
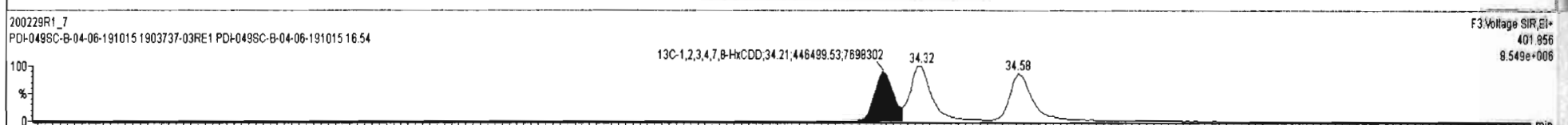
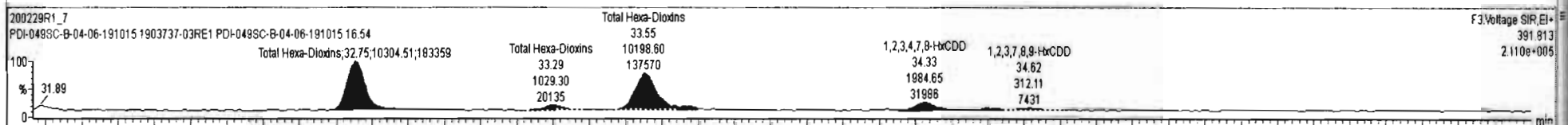
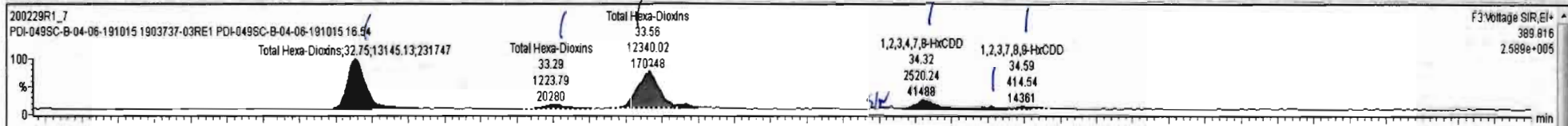


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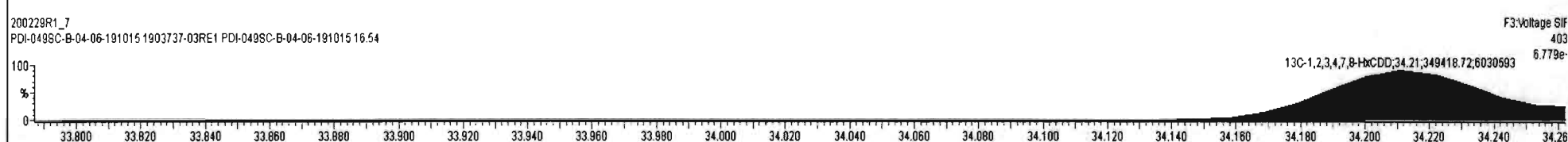
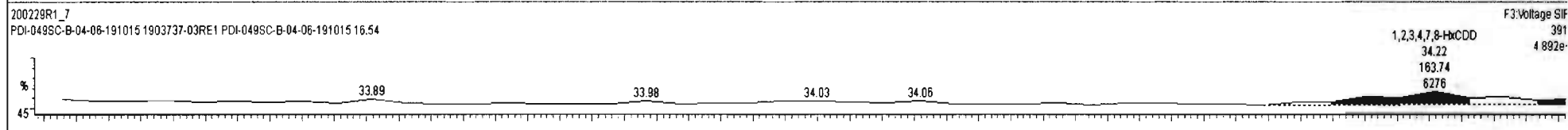
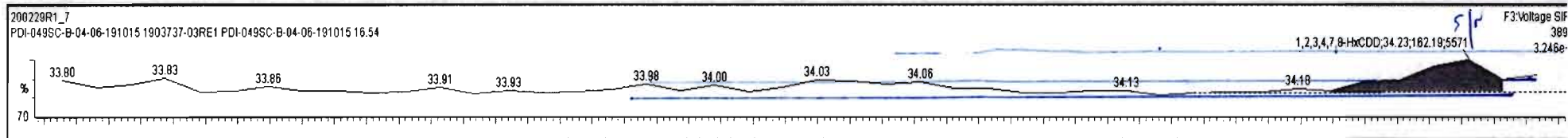
#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fall	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	10.000	33.63		0.000		NO	12.91		0.171	12.91
42	Total Hepta-Dioxins				0.9231	10.000	37.64		0.000		NO	106.5		0.841	106.5
43	Total Tetra-Furans				0.8020	10.000	23.61		0.000		NO	8.207		0.112	8.577
44	1st Func. Penta-Furans				0.9074	10.000	27.09		0.000		NO	4.509		0.0449	4.509

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	Total Hexa-Dioxins	33.63	32.75	1.315e4	1.030e4	1.240	1.28	NO	5.5858	5.5858
2	Total Hexa-Dioxins	33.63	33.29	1.224e3	1.029e3	1.240	1.19	NO	0.53670	0.53670
3	Total Hexa-Dioxins	33.63	33.58	1.234e4	1.020e4	1.240	1.21	NO	5.3688	5.3688
4	1,2,3,4,7,8-HxCDD	34.22	34.32	2.520e3	1.985e3	1.240	1.27	NO	1.0572	1.0572
5	Total Hexa-Dioxins	33.63	34.51	4.154e2	3.838e2	1.240	1.08	NO	0.19036	0.19036
6	1,2,3,7,8,9-HxCDD	34.62	34.59	4.145e2	3.121e2	1.240	1.33	NO	0.17369	0.17369



#	Name	Resp	RA	n/y	RRF	w/wd	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	10.000	33.83		0.000		NO	12.81		0.171	12.88
42	Total Hepta-Dioxins				0.9231	10.000	37.54		0.000		NO	106.5		0.641	106.5
43	Total Tetra-Furans				0.8020	10.000	23.81		0.000		NO	8.207		0.112	8.577
44	1st Func. Penta-Furans				0.9074	10.000	27.09		0.000		NO	4.509		0.0449	4.509

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.83	32.75	1.315e4	1.030e4	1.240	1.28	NO	5.5858	5.5858
2	41 Total Hexa-Dioxins	33.83	33.29	1.224e3	1.029e3	1.240	1.19	NO	0.53670	0.53670
3	41 Total Hexa-Dioxins	33.83	33.56	1.234e4	1.020e4	1.240	1.21	NO	5.3688	5.3688
4	3 1,2,3,4,7,8-HxCDD	34.22	34.23	1.622e2	1.637e2	1.240	0.99	YES	0.068760	0.00000
5	4 1,2,3,6,7,8-HxCDD	34.32	34.32	2.520e3	1.965e3	1.240	1.27	NO	0.95207	0.95207
6	41 Total Hexa-Dioxins	33.83	34.51	4.154e2	3.838e2	1.240	1.08	NO	0.19036	0.19036
7	5 1,2,3,7,8-HxCDD	34.62	34.59	4.145e2	3.121e2	1.240	1.33	NO	0.17369	0.17369



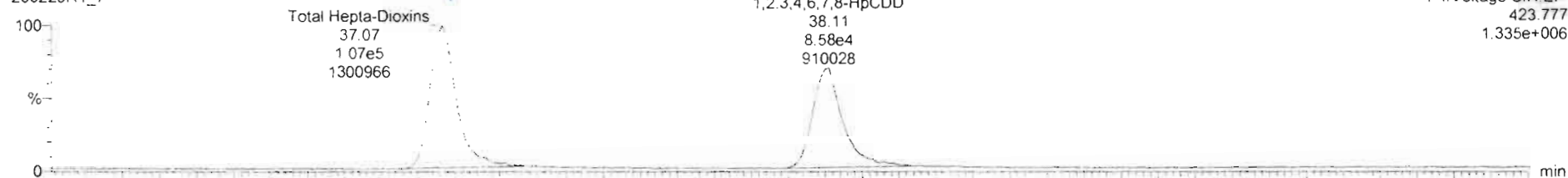
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

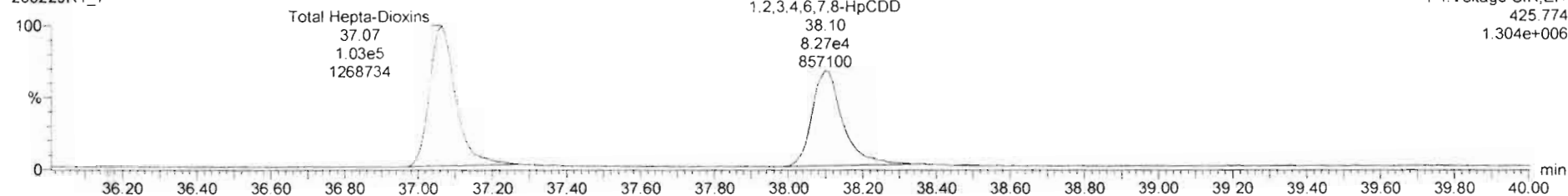
1,2,3,4,6,7,8-HpCDD

200229R1_7



F4: Voltage SIR, EI+
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1.335e+006

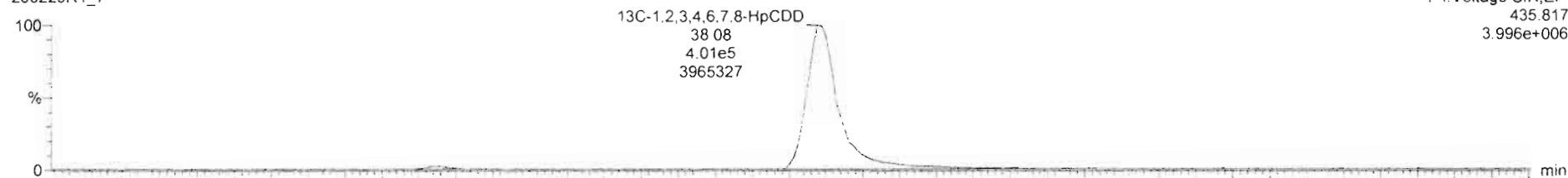
200229R1_7



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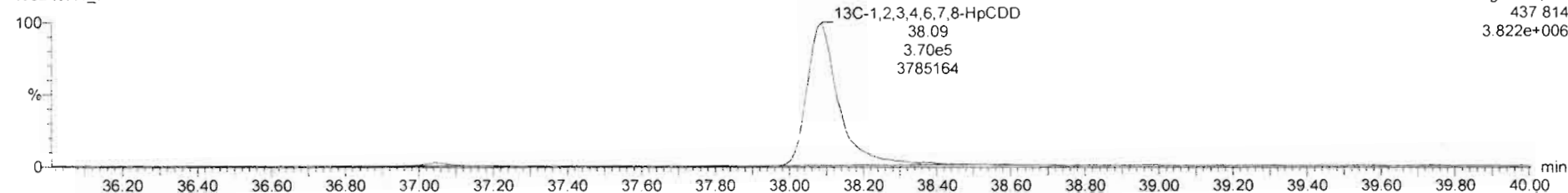
13C-1,2,3,4,6,7,8-HpCDD

200229R1_7



F4: Voltage SIR, EI+
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3.996e+006

200229R1_7



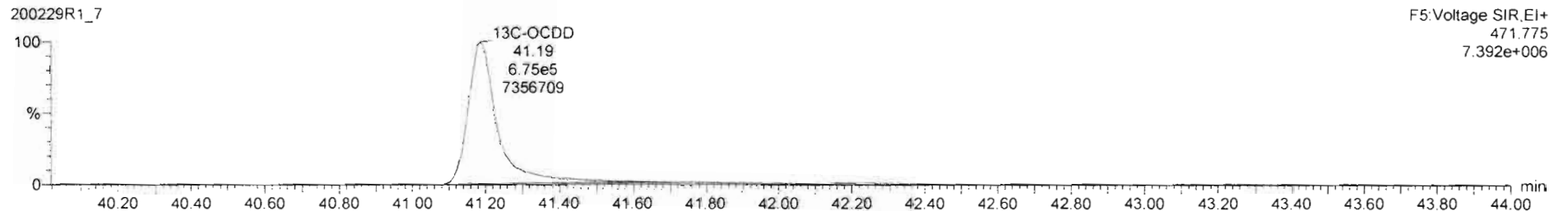
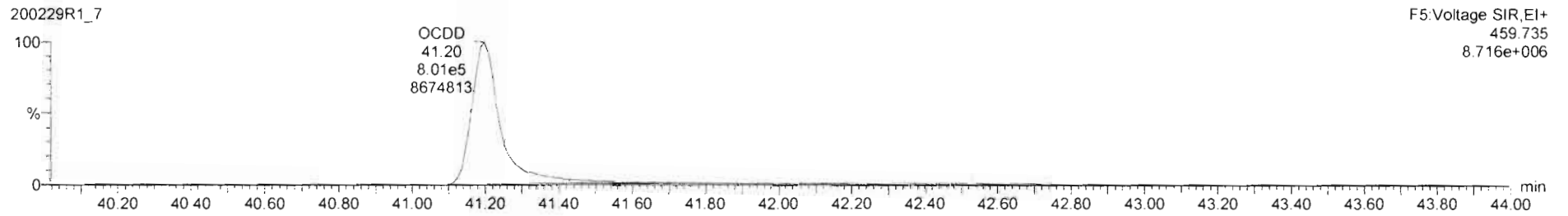
F4: Voltage SIR, EI+
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3.822e+006

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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

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Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015



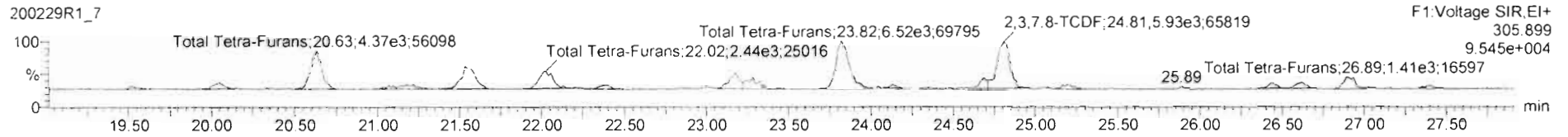
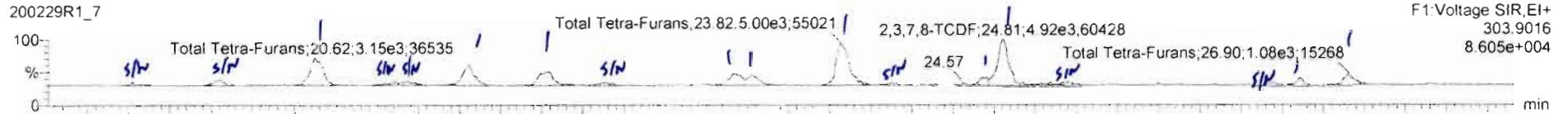
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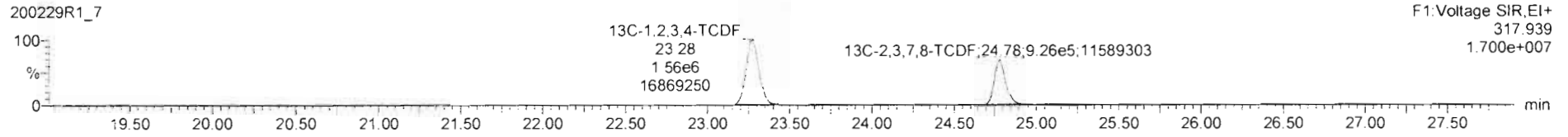
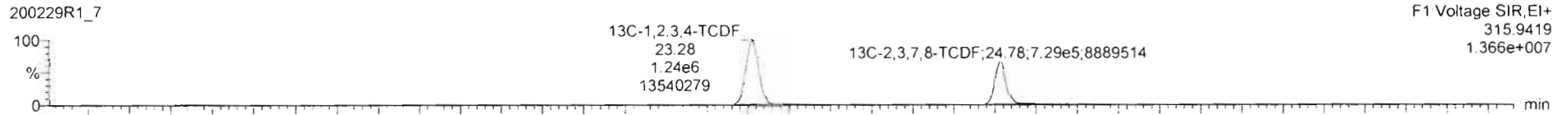
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Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

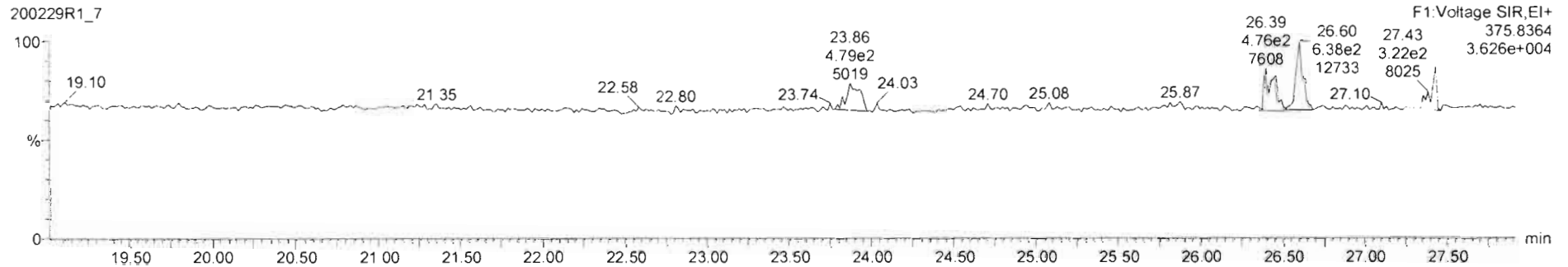
2,3,7,8-TCDF



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



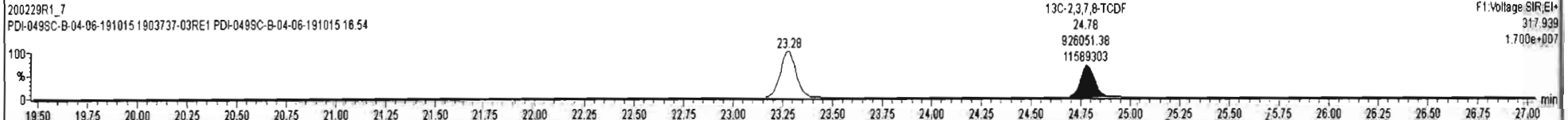
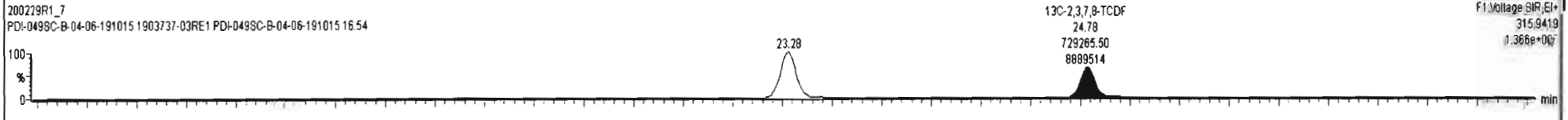
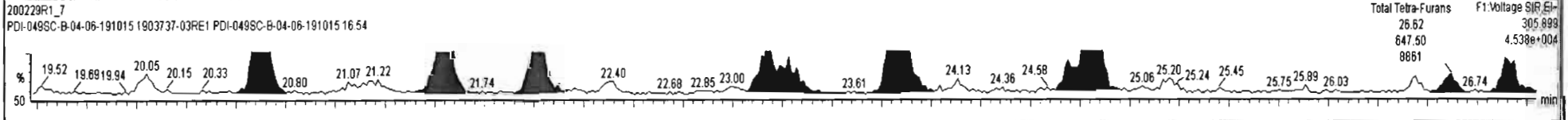
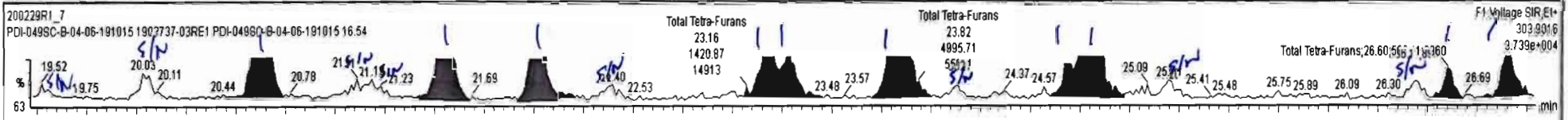
DPE1



200229R1_7 - 1903737-03RE1 PDI-049SC-B-04-06-191015 16:54 - PDI-049SC-B-04-06-191015

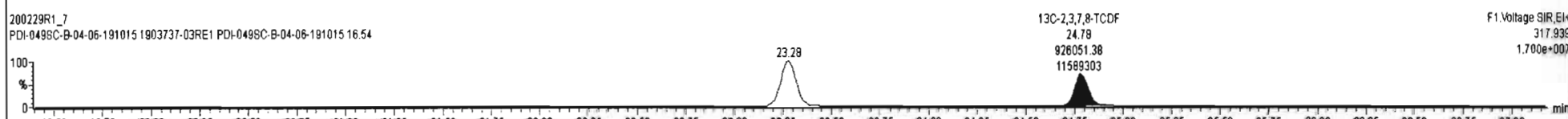
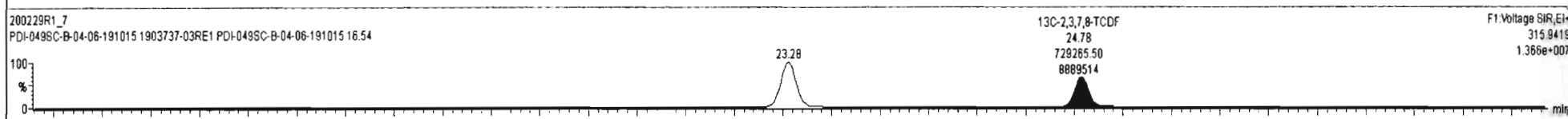
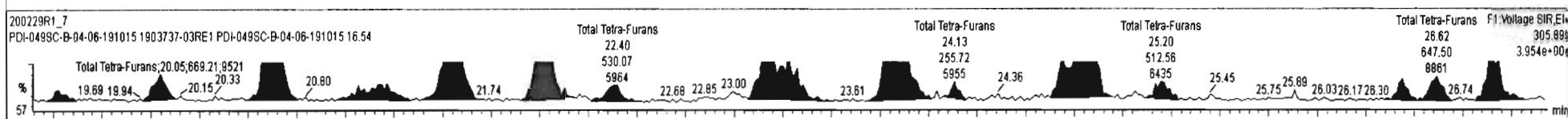
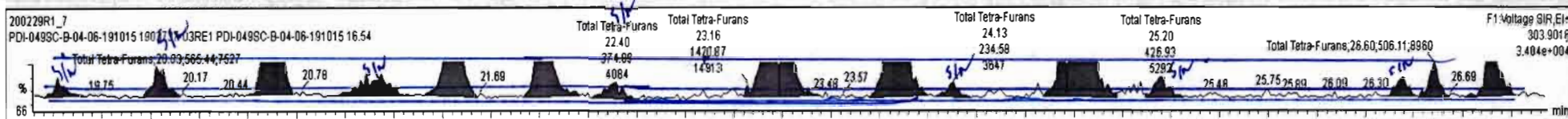
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41	Total Hexa-Dioxins				0.9211	10.000	33.63		0.000		NO	12.91		0.171	12.91
42	Total Hepta-Dioxins				0.9231	10.000	37.64		0.000		NO	106.5		0.641	106.5
43	Total Tetra-Furans				0.8020	10.000	23.61		0.000		NO	7.826		0.112	7.826
44	1st Func. Penta-Furans				0.9074	10.000	27.09		0.000		NO	4.509		0.0449	4.509

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	20.62	3.146e3	4.371e3	0.770	0.72	NO	1.1325	1.1325
2	43 Total Tetra-Furans	23.61	21.56	2.296e3	3.294e3	0.770	0.70	NO	0.84227	0.84227
3	43 Total Tetra-Furans	23.61	22.04	1.898e3	2.436e3	0.770	0.78	NO	0.65293	0.65293
4	43 Total Tetra-Furans	23.61	23.16	1.421e3	1.752e3	0.770	0.81	NO	0.47802	0.47802
5	43 Total Tetra-Furans	23.61	23.26	1.072e3	1.577e3	0.770	0.68	NO	0.39914	0.39914
6	43 Total Tetra-Furans	23.61	23.82	4.996e3	6.519e3	0.770	0.77	NO	1.7348	1.7348
7	43 Total Tetra-Furans	23.61	24.69	6.171e2	7.265e2	0.770	0.65	NO	0.20244	0.20244
8	8 2,3,7,8-TCDF	24.80	24.81	4.923e3	5.927e3	0.770	0.83	NO	1.6347	1.6347
9	43 Total Tetra-Furans	23.61	26.60	5.061e2	6.475e2	0.770	0.78	NO	0.17380	0.17380
10	43 Total Tetra-Furans	23.61	26.90	1.080e3	1.412e3	0.770	0.76	NO	0.37540	0.37540



#	Name	Resp	RA	n/y	RSF	wtAvol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	10.000	33.63		0.000		NO	12.91		0.171	12.91
42	Total Hepta-Dioxins				0.9231	10.000	37.64		0.000		NO	106.5		0.641	106.5
43	Total Tetra-Furans				0.8026	10.000	23.61		0.000		NO	8.207		0.112	8.577
44	1st Func. Penta-Furans				0.9074	10.000	27.09		0.000		NO	4.509		0.0449	4.509

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.52	2.419e2	2.572e2	0.770	0.94	YES	0.068598	0.00000
2	43 Total Tetra-Furans	23.61	20.03	5.654e2	6.692e2	0.770	0.84	NO	0.18601	0.18601
3	43 Total Tetra-Furans	23.61	20.62	3.146e3	4.371e3	0.770	0.72	NO	1.1325	1.1325
4	43 Total Tetra-Furans	23.61	21.11	3.040e2	2.906e2	0.770	1.05	YES	0.077497	0.00000
5	43 Total Tetra-Furans	23.61	21.18	4.483e2	6.903e2	0.770	0.65	YES	0.15525	0.00000
6	43 Total Tetra-Furans	23.61	21.56	2.296e3	3.294e3	0.770	0.70	NO	0.84227	0.84227
7	43 Total Tetra-Furans	23.61	22.04	1.899e3	2.436e3	0.770	0.78	NO	0.65293	0.65293
8	43 Total Tetra-Furans	23.61	22.40	3.749e2	5.301e2	0.770	0.71	NO	0.13634	0.13634
9	43 Total Tetra-Furans	23.61	23.18	1.421e3	1.752e3	0.770	0.81	NO	0.47802	0.47802
10	43 Total Tetra-Furans	23.61	23.28	1.072e3	1.577e3	0.770	0.68	NO	0.39914	0.39914
11	43 Total Tetra-Furans	23.61	23.82	4.996e3	6.519e3	0.770	0.77	NO	1.7348	1.7348
12	43 Total Tetra-Furans	23.61	24.13	2.346e2	2.557e2	0.770	0.92	YES	0.068194	0.00000
13	43 Total Tetra-Furans	23.61	24.69	8.171e2	7.265e2	0.770	0.85	NO	0.20244	0.20244
14	8,2,3,7,8-TCDF	24.80	24.81	4.923e3	5.927e3	0.770	0.83	NO	1.6347	1.6347
15	43 Total Tetra-Furans	23.61	25.20	4.269e2	5.126e2	0.770	0.83	NO	0.14155	0.14155
16	43 Total Tetra-Furans	23.61	26.44	3.317e2	4.484e2	0.770	0.74	NO	0.11754	0.11754
17	43 Total Tetra-Furans	23.61	26.60	5.061e2	6.475e2	0.770	0.78	NO	0.17380	0.17380
18	43 Total Tetra-Furans	23.61	26.90	1.080e3	1.412e3	0.770	0.76	NO	0.37540	0.37540



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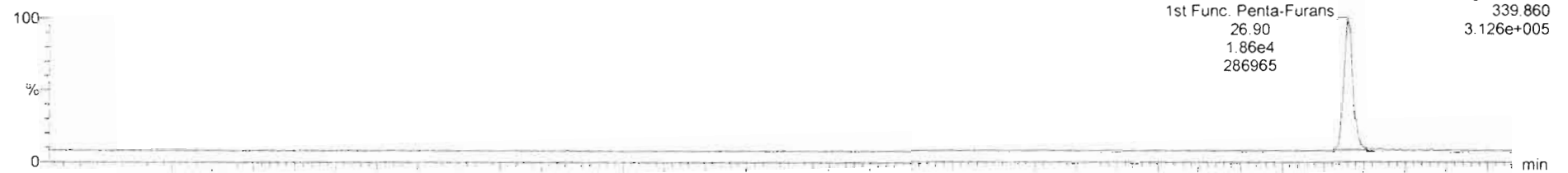
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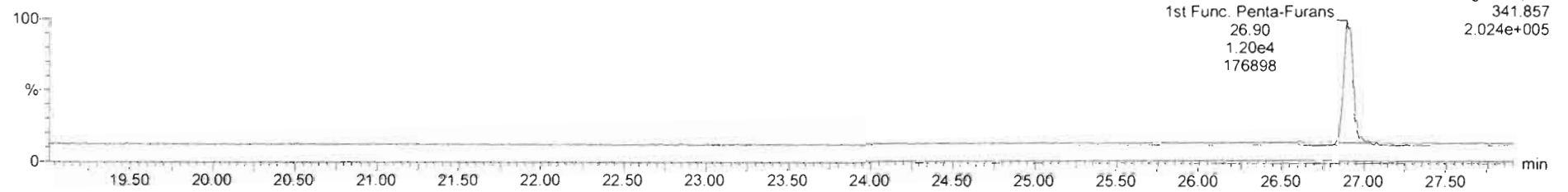
Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

1st Func. Penta-Furans

200229R1_7

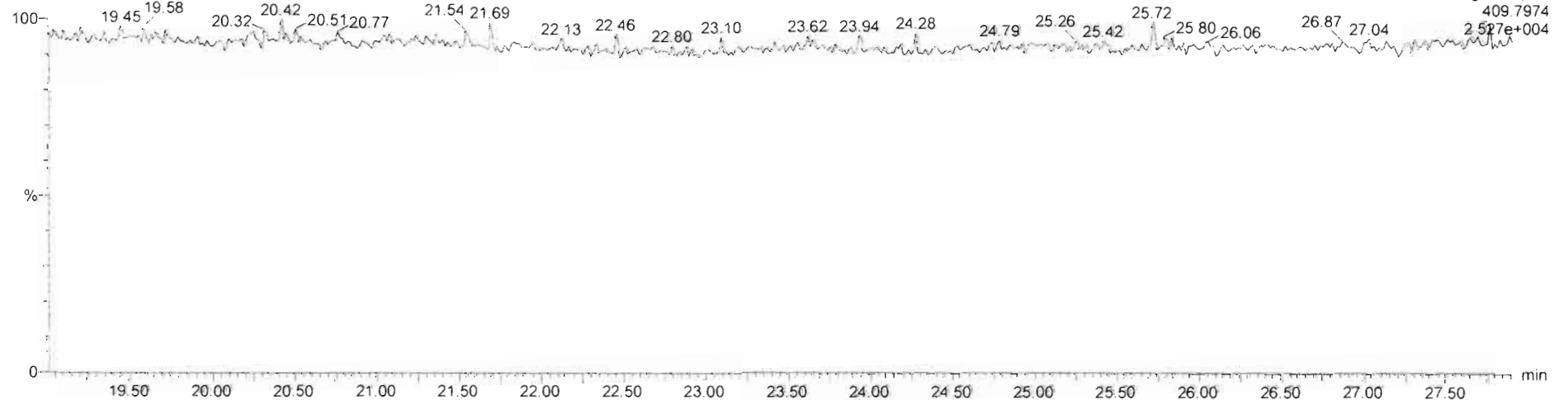


200229R1_7



DPE6

200229R1_7



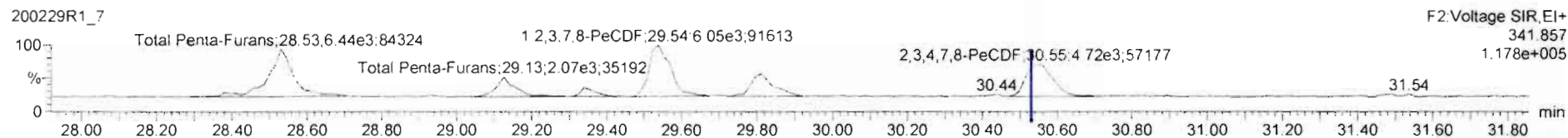
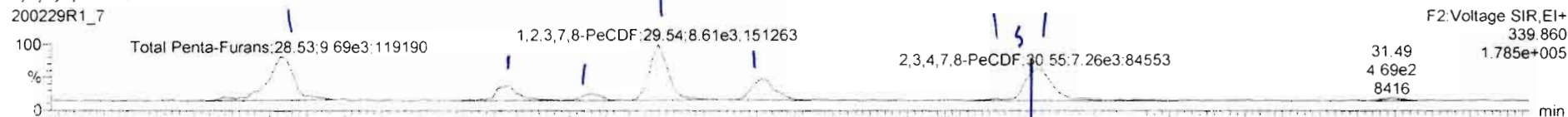
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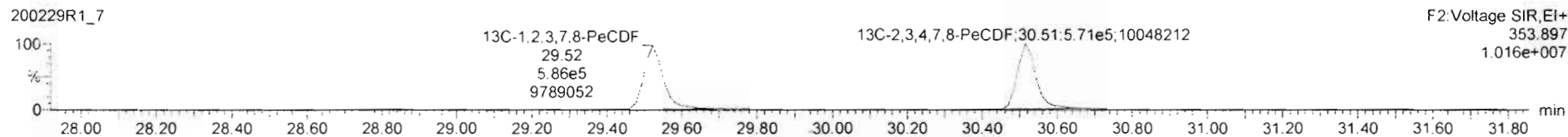
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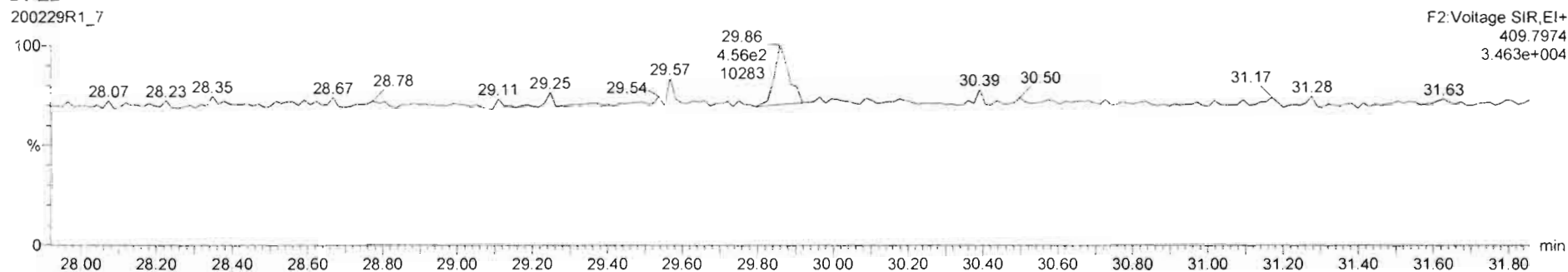
1,2,3,7,8-PeCDF



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



DPE2

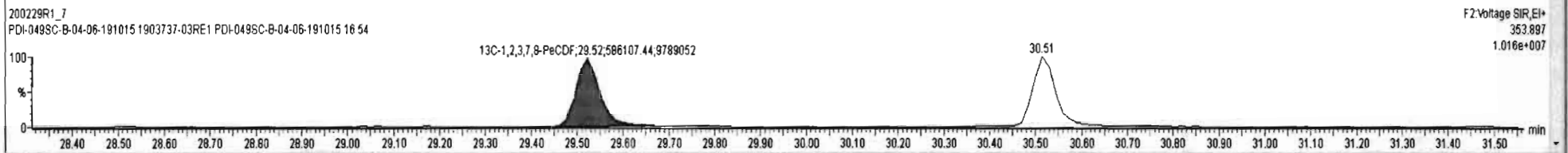
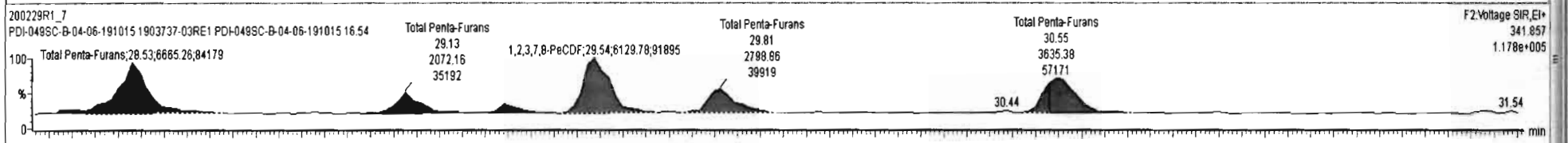
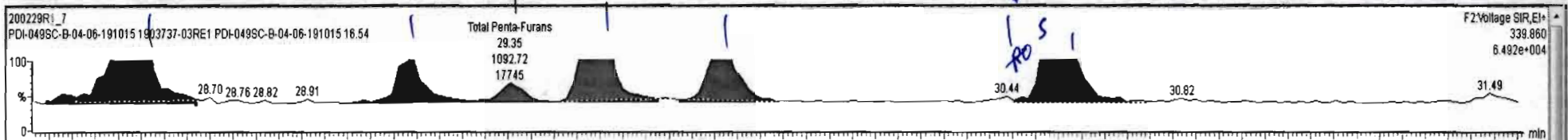


200229R1_7 - 1903737-03RE1 PDI-049SC-B-04-06-191015 16:54 - PDI-049SC-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	wtAvt	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.8074	10.000	29.27		0.000		NO	8.438	0.0858	8.438	
46	Total Hexa-Furans				0.8962	10.000	33.56		0.000		NO	18.58	0.123	18.71	
47	Total Hepta-Furans				0.8511	10.000	37.83		0.000		NO	32.12	0.282	32.12	
48	PFK1														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.53	1.039e4	6.665e3	1.550	1.56	NO	2.5138	2.5138
2	45 Total Penta-Furans	29.27	29.14	2.919e3	2.072e3	1.550	1.41	NO	0.73548	0.73548
3	45 Total Penta-Furans	29.27	29.35	1.093e3	7.257e2	1.550	1.51	NO	0.26798	0.26798
4	9 1,2,3,7,8-PeCDF	29.54	29.54	8.817e3	6.130e3	1.550	1.44	NO	2.1759	2.1759
5	45 Total Penta-Furans	29.27	29.81	4.176e3	2.799e3	1.550	1.49	NO	1.0278	1.0278
6	10 2,3,4,7,8-PeCDF	30.54	30.53	1.714e3	1.079e3	1.550	1.59	NO	0.39743	0.39743
7	45 Total Penta-Furans	29.27	30.55	5.321e3	3.635e3	1.550	1.46	NO	1.3198	1.3198

dy 13 Oct 2000

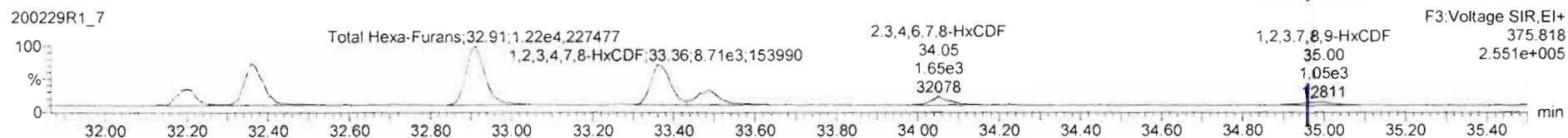
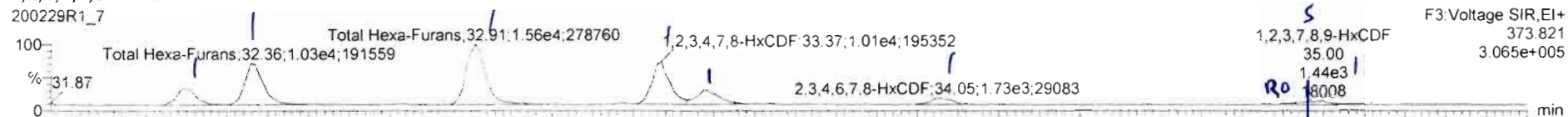


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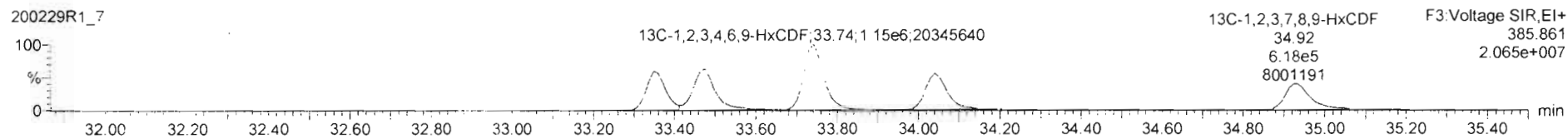
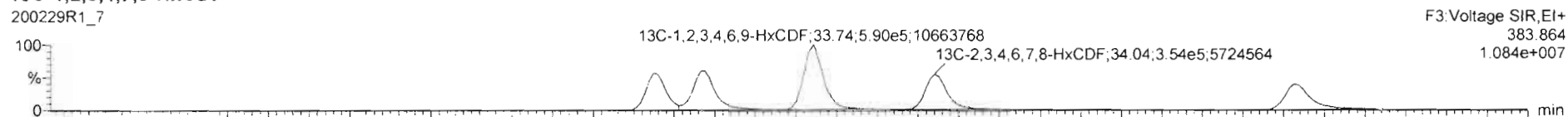
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Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

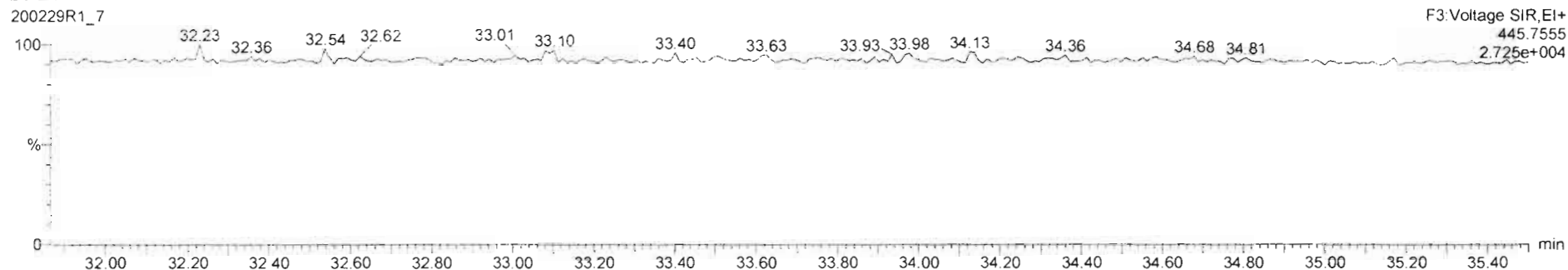
1,2,3,4,7,8-HxCDF



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

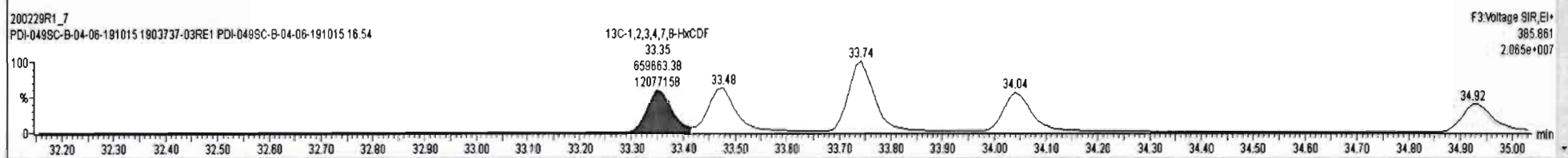
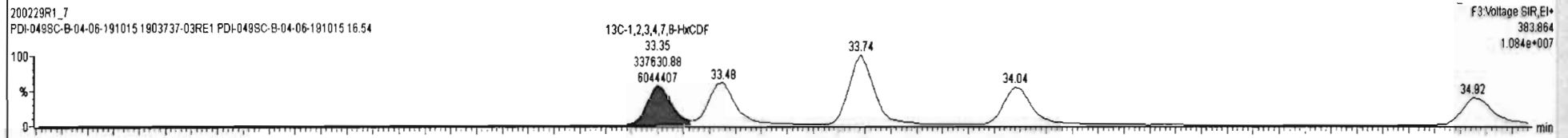
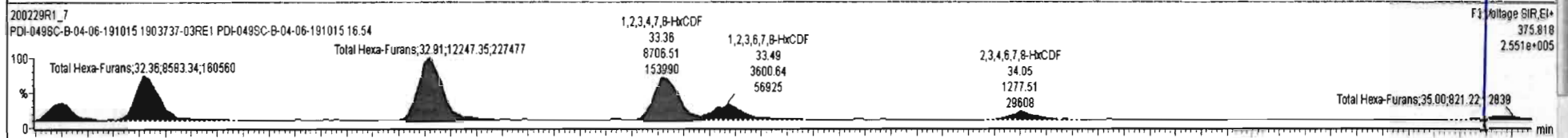
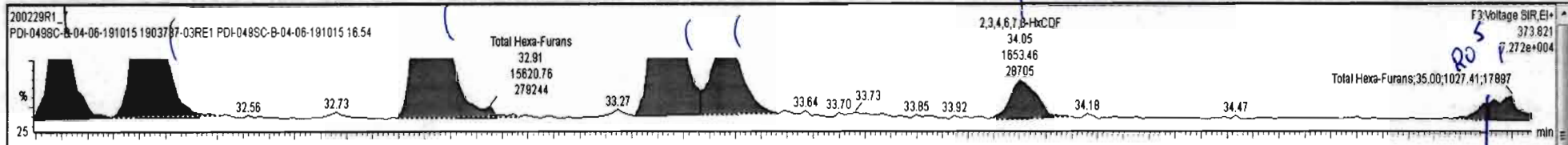


DPE3



#	Name	Resp	RA	n/y	RRF	wtAvc	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.000	29.27		0.000		NO	8.312	0.0858	8.312	
46	Total Hexa-Furans				0.8962	10.000	33.56		0.000		NO	18.58	0.123	18.71	
47	Total Hepta-Furans				0.8511	10.000	37.83		0.000		NO	32.12	0.282	32.12	
48	PFK1														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.56	32.20	4.244e3	3.414e3	1.240	1.24	NO	1.6415	1.6415
2	Total Hexa-Furans	33.56	32.36	1.032e4	8.583e3	1.240	1.20	NO	4.0514	4.0514
3	Total Hexa-Furans	33.56	32.91	1.562e4	1.225e4	1.240	1.28	NO	5.9732	5.9732
4	1,2,3,4,7,8-HxCDF	33.35	33.37	1.006e4	8.707e3	1.240	1.16	NO	4.3648	4.3648
5	1,2,3,6,7,8-HxCDF	33.49	33.48	4.082e3	3.601e3	1.240	1.14	NO	1.5285	1.5285
6	1,3,4,6,7,8-HxCDF	34.08	34.05	1.653e3	1.278e3	1.240	1.29	NO	0.62639	0.62639
7	1,2,3,7,8,9-HxCDF	34.92	34.95	3.678e2	2.278e2	1.240	1.61	YES	0.12834	0.00000
8	Total Hexa-Furans	33.56	35.00	1.027e3	8.212e2	1.240	1.25	NO	0.39623	0.39623



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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
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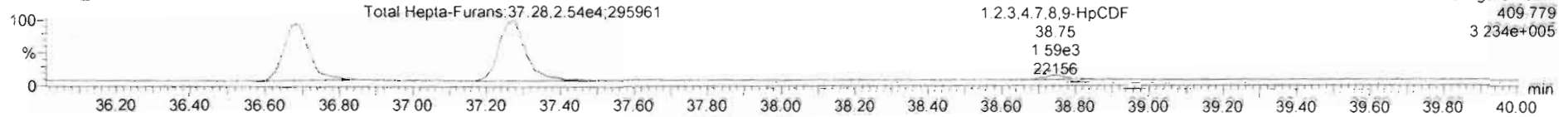
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1,2,3,4,6,7,8-HpCDF

200229R1_7

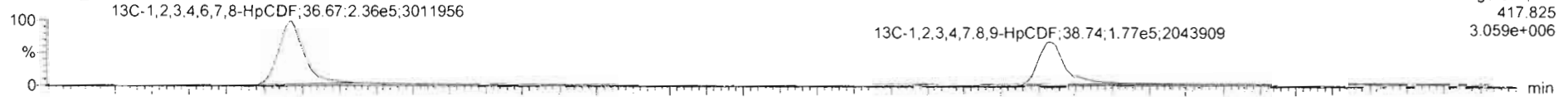


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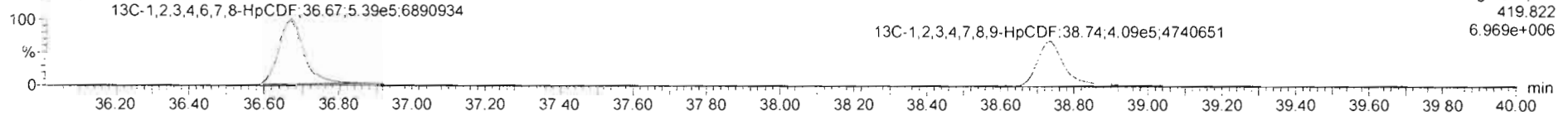


13C-1,2,3,4,6,7,8-HpCDF

200229R1_7

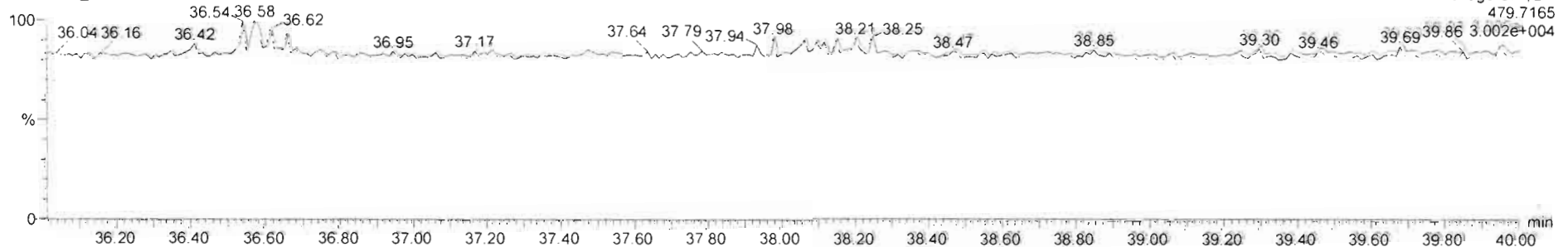


200229R1_7



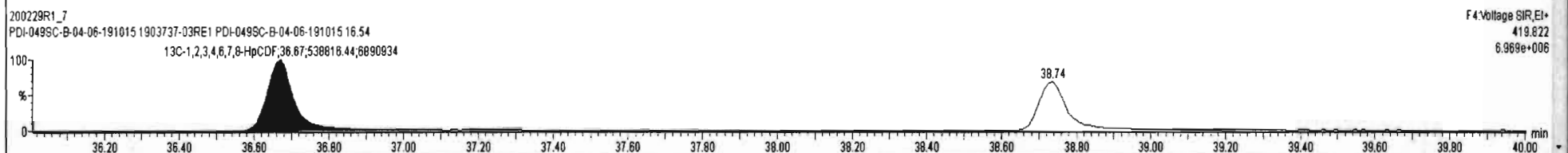
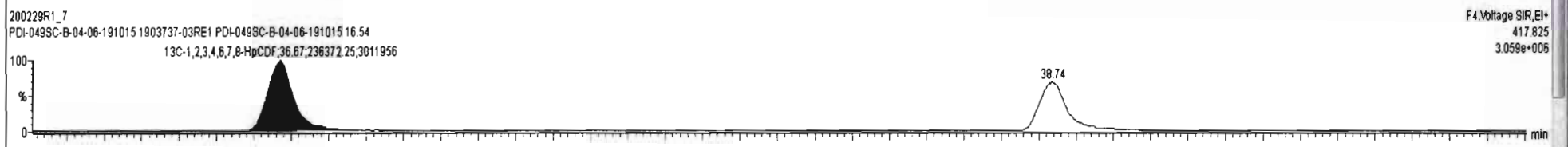
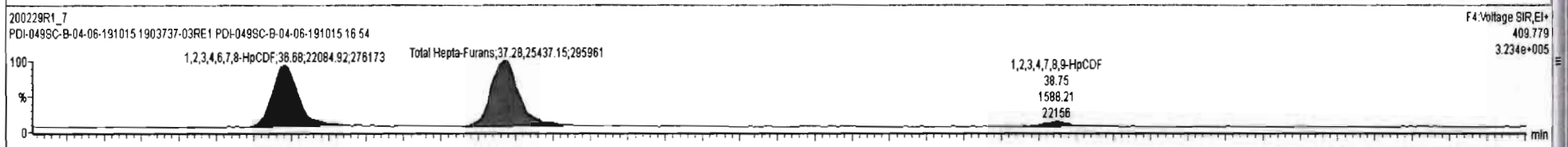
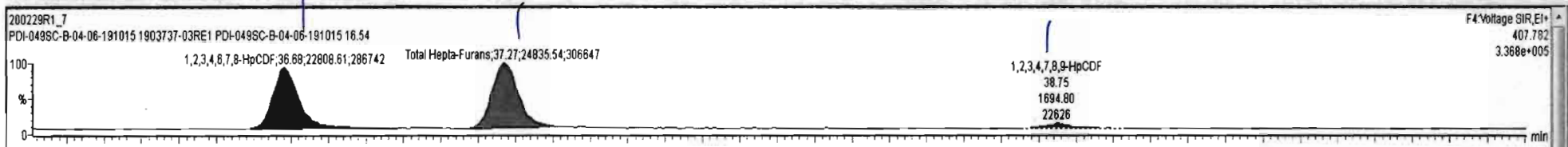
DPE4

200229R1_7



#	Name	Resp	RA	n/y	R/F	w/wot	Prod RT	RT	Prod R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.000	29.27		0.000		NO	6.312		0.0958	8.312
46	Total Hexa-Furans				0.8982	10.000	33.56		0.000		NO	18.58		0.123	18.71
47	Total Hepta-Furans				0.8511	10.000	37.83		0.000		NO	32.12		0.282	32.12
48	PFK1														

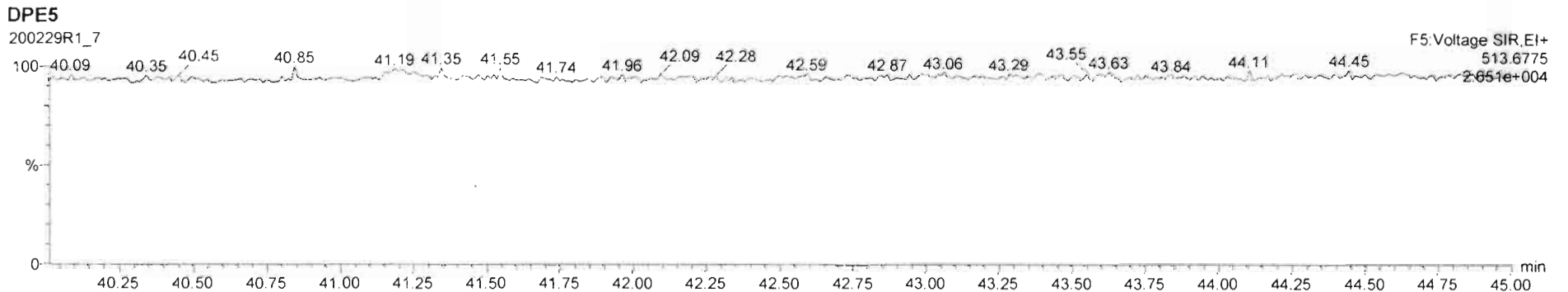
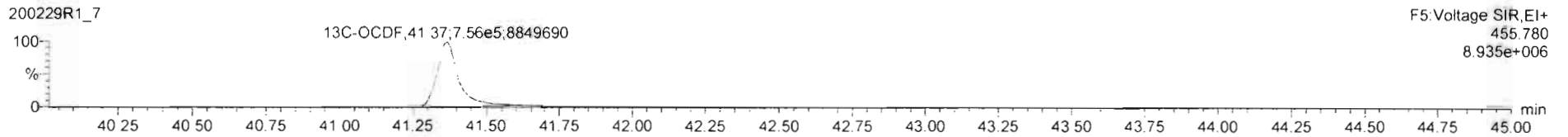
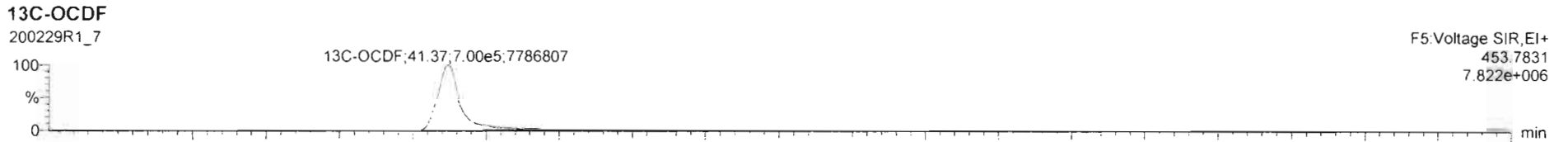
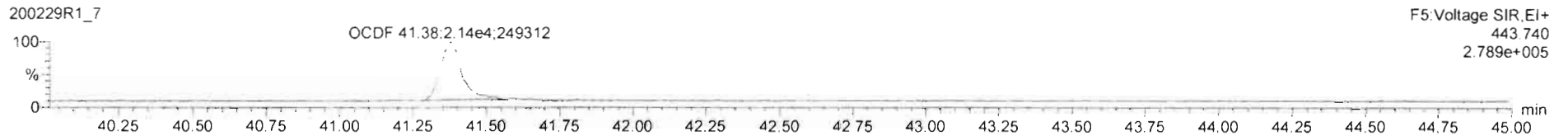
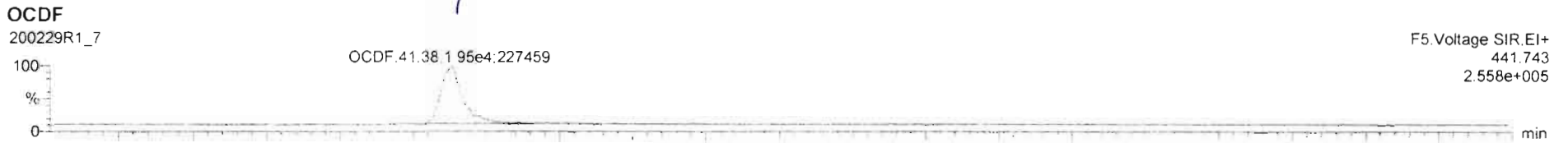
#	Name	Prod RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.71	36.68	2.281e4	2.208e4	1.040	1.03	NO	13.610	13.610
2	Total Hepta-Furans	37.83	37.27	2.484e4	2.544e4	1.040	0.98	NO	17.362	17.362
3	1,2,3,4,7,8,9-HpCDF	38.74	38.75	1.695e3	1.588e3	1.040	1.07	NO	1.1440	1.1440



Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

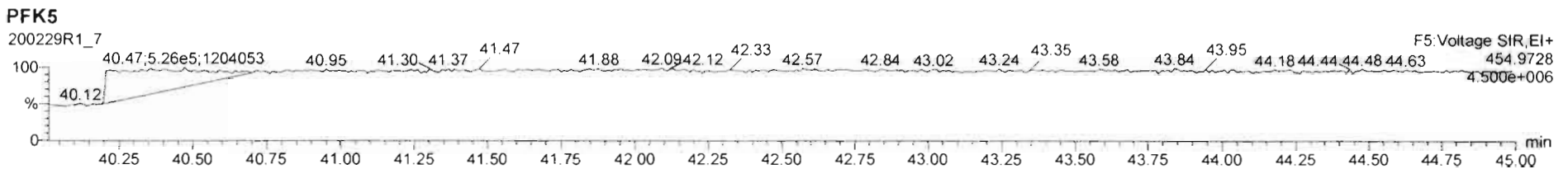
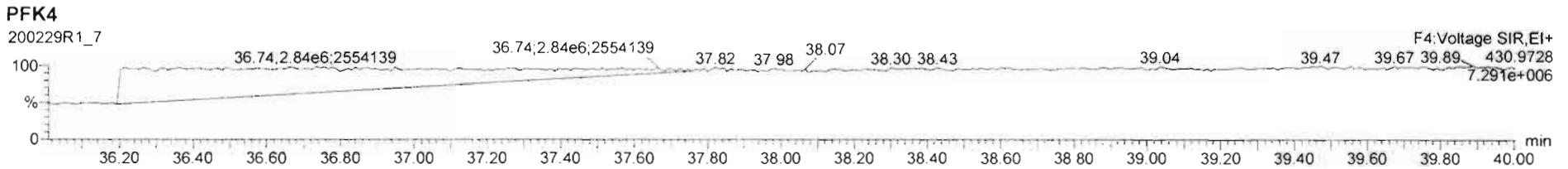
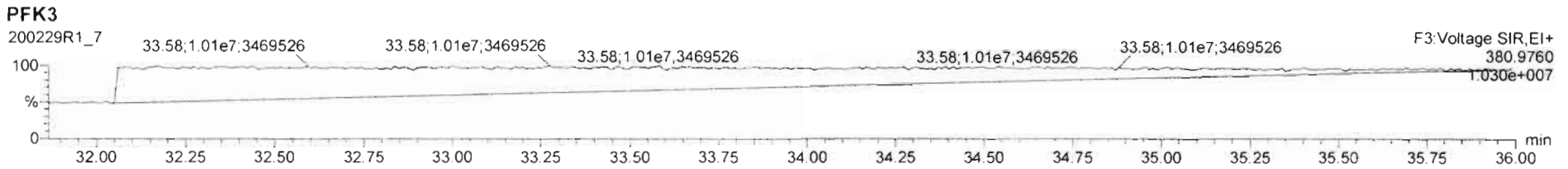
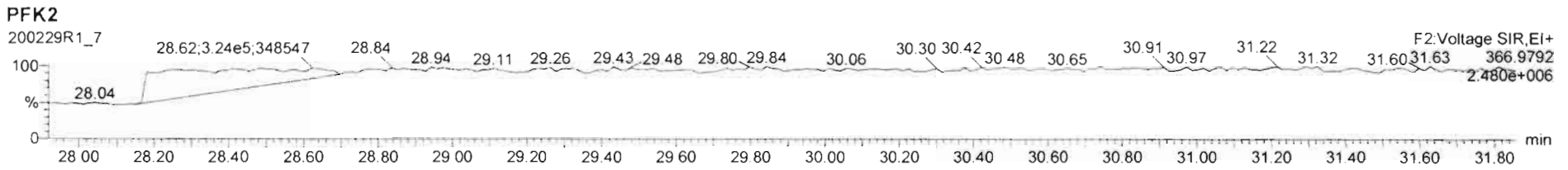
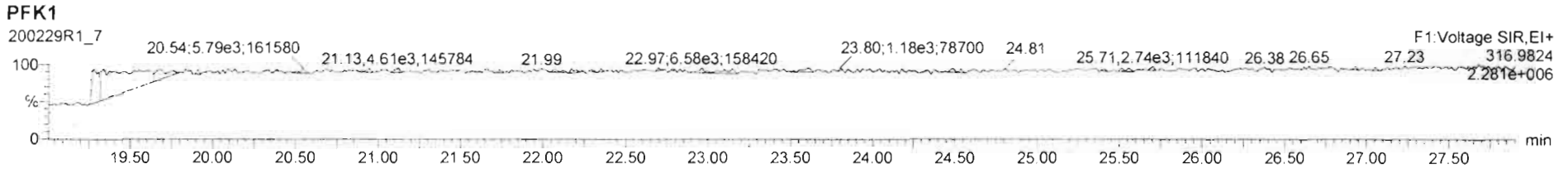


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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_7, Date: 29-Feb-2020, Time: 15:59:02, ID: 1903737-03RE1 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015



Dataset: U:\VG12.PRO\Results\200229R1\200229R1-8.qld

Last Altered: Friday, March 06, 2020 16:06:11 Pacific Standard Time

Printed: Friday, March 06, 2020 16:11:24 Pacific Standard Time

by 03-06-2020

C7 03/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

#	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				0.988	10.008	25.77		1.00		NO			0.197	
2	2 1,2,3,7,8-PeCDD				0.972	10.008	30.86		1.00		NO			0.185	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.008	34.23		1.00		NO			0.197	
4	4 1,2,3,6,7,8-HxCDD				0.921	10.008	34.32		1.00		NO			0.199	
5	5 1,2,3,7,8,9-HxCDD				0.918	10.008	34.63		1.00		NO			0.239	
6	6 1,2,3,4,6,7,8-HpCDD	3461.678	1.017	NO	0.923	10.008	38.11	38.12	1.00	1.00	NO	2.765		0.534	2.765
7	7 OCDD	38531.584	0.914	NO	0.975	10.008	41.21	41.23	1.00	1.00	NO	34.34		0.637	34.34
8	8 2,3,7,8-TCDF				0.802	10.008	24.83		1.00		NO			0.167	
9	9 1,2,3,7,8-PeCDF				0.907	10.008	29.54		1.00		NO			0.159	
10	10 2,3,4,7,8-PeCDF				0.952	10.008	30.56		1.00		NO			0.143	
11	11 1,2,3,4,7,8-HxCDF				0.862	10.008	33.36		1.00		NO			0.149	
12	12 1,2,3,6,7,8-HxCDF				0.841	10.008	33.49		1.00		NO			0.155	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.008	34.09		1.00		NO			0.159	
14	14 1,2,3,7,8,9-HxCDF				0.858	10.008	34.94		1.00		NO			0.226	
15	15 1,2,3,4,6,7,8-HpCDF	3095.037	1.044	NO	0.851	10.008	36.72	36.68	1.00	1.00	NO	2.495		0.368	2.495
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.008	38.74		1.00		NO			0.427	
17	17 OCDF	1486.809	0.720	YES	0.806	10.008	41.39	41.38	1.00	1.00	NO	1.416		0.460	1.258
18	18 13C-2,3,7,8-TCDD	486550.750	0.780	NO	1.20	10.008	25.72	25.74	1.03	1.03	NO	42.50	21.3	0.125	
19	19 13C-1,2,3,7,8-PeCDD	417787.953	0.590	NO	0.967	10.008	30.86	30.83	1.23	1.23	NO	45.25	22.6	0.182	
20	20 13C-1,2,3,4,7,8-HxCDD	282697.571	1.273	NO	0.874	10.008	34.21	34.22	1.01	1.01	NO	37.17	18.6	0.221	
21	21 13C-1,2,3,6,7,8-HxCDD	379258.016	1.266	NO	1.05	10.008	34.32	34.32	1.02	1.02	NO	41.67	20.9	0.184	
22	22 13C-1,2,3,7,8,9-HxCDD	334260.500	1.277	NO	0.974	10.008	34.62	34.59	1.03	1.03	NO	39.42	19.7	0.198	
23	23 13C-1,2,3,4,6,7,8-HpCDD	271012.672	1.004	NO	0.747	10.008	38.20	38.10	1.13	1.13	NO	41.67	20.9	0.256	
24	24 13C-OCDD	460173.328	0.882	NO	0.707	10.008	41.10	41.21	1.22	1.22	NO	74.83	18.7	0.302	
25	25 13C-2,3,7,8-TCDF	593600.469	0.783	NO	1.07	10.008	24.90	24.81	0.99	0.99	NO	41.28	20.7	0.282	
26	26 13C-1,2,3,7,8-PeCDF	568234.907	1.642	NO	1.00	10.008	29.49	29.52	1.18	1.18	NO	42.02	21.0	0.292	
27	27 13C-2,3,4,7,8-PeCDF	553619.375	1.528	NO	0.962	10.008	30.46	30.53	1.21	1.22	NO	42.65	21.3	0.304	
28	28 13C-1,2,3,4,7,8-HxCDF	385544.640	0.509	NO	1.05	10.008	33.34	33.36	0.99	0.99	NO	42.22	21.1	0.333	
29	29 13C-1,2,3,6,7,8-HxCDF	444827.954	0.511	NO	1.19	10.008	33.44	33.48	0.99	0.99	NO	42.95	21.5	0.293	
30	30 13C-2,3,4,6,7,8-HxCDF	392100.234	0.517	NO	1.07	10.008	34.05	34.05	1.01	1.01	NO	42.25	21.1	0.327	
31	31 13C-1,2,3,7,8,9-HxCDF	340650.766	0.507	NO	0.922	10.008	34.96	34.94	1.04	1.04	NO	42.43	21.2	0.378	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-8.qld

Last Altered: Friday, March 06, 2020 16:06:11 Pacific Standard Time

Printed: Friday, March 06, 2020 16:11:24 Pacific Standard Time

Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	291313.664	0.444	NO	0.767	10.008	36.71	36.68	1.09	1.09	NO	43.63	21.8	0.258	
33	13C-1,2,3,4,7,8,9-HpCDF	213528.348	0.424	NO	0.552	10.008	38.74	38.74	1.15	1.15	NO	44.42	22.2	0.358	
34	13C-OCDF	521130.141	0.871	NO	0.789	10.008	41.33	41.39	1.23	1.23	NO	75.85	19.0	0.264	
35	37Cl-2,3,7,8-TCDD	830132.813			1.18	10.008	25.75	25.76	1.03	1.03	NO	73.89	92.4	0.0475	
36	13C-1,2,3,4-TCDD	1908705.8...	0.791	NO	1.00	10.008	25.11	25.08	1.00	1.00	NO	199.8	100	0.150	
37	13C-1,2,3,4-TCDF	2697532.0...	0.796	NO	1.00	10.008	23.37	23.30	1.00	1.00	NO	199.8	100	0.301	
38	13C-1,2,3,4,6,9-HxCDF	1739323.0...	0.519	NO	1.00	10.008	33.71	33.74	1.00	1.00	NO	199.8	100	0.349	
39	Total Tetra-Dioxins				0.988	10.008	24.62		0.00		NO			0.122	
40	Total Penta-Dioxins				0.972	10.008	29.96		0.00		NO			0.0697	
41	Total Hexa-Dioxins				0.921	10.008	33.63		0.00		NO	0.5951		0.221	0.5951
42	Total Hepta-Dioxins				0.923	10.008	37.64		0.00		NO	6.571		0.534	6.571
43	Total Tetra-Furans				0.802	10.008	23.61		0.00		NO			0.0813	
44	1st Func. Penta-Furans				0.907	10.008	27.09		0.00		NO	0.7884		0.0980	0.7884
45	Total Penta-Furans				0.907	10.008	29.27		0.00		NO			0.0739	
46	Total Hexa-Furans				0.898	10.008	33.56		0.00		NO	1.793		0.164	1.793
47	Total Hepta-Furans				0.851	10.008	37.83		0.00		NO	4.812		0.421	4.812

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-8.qld

Last Altered: Friday, March 06, 2020 16:06:11 Pacific Standard Time

Printed: Friday, March 06, 2020 16:11:46 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

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	9.11e2	0.00e0	1.411	NO	33.63	32.77	0.5951	0.5951

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	3.46e3	2.71e5	1.017	NO	38.11	38.12	2.765	2.765
2	42 Total Hepta-Dioxins	4.76e3	2.71e5	1.079	NO	37.64	37.06	3.806	3.806

Tetra-Furans

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

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	2.01e3	0.00e0	1.710	NO	27.09	26.92	0.7884	0.7884

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-8.qld

Last Altered: Friday, March 06, 2020 16:06:11 Pacific Standard Time

Printed: Friday, March 06, 2020 16:11:46 Pacific Standard Time

Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

Penta-Furans

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

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	1.58e3	0.00e0	1.064	NO	33.56	32.91	0.8979	0.8979
2	46 Total Hexa-Furans	1.09e3	0.00e0	1.229	NO	33.56	32.36	0.6223	0.6223
3	46 Total Hexa-Furans	4.78e2	0.00e0	1.180	NO	33.56	32.20	0.2724	0.2724

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	47 Total Hepta-Furans	2.49e3	0.00e0	1.065	NO	37.83	37.27	2.318	2.318
2	15 1,2,3,4,6,7,8-HpCDF	3.10e3	2.91e5	1.044	NO	36.72	36.68	2.495	2.495

Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

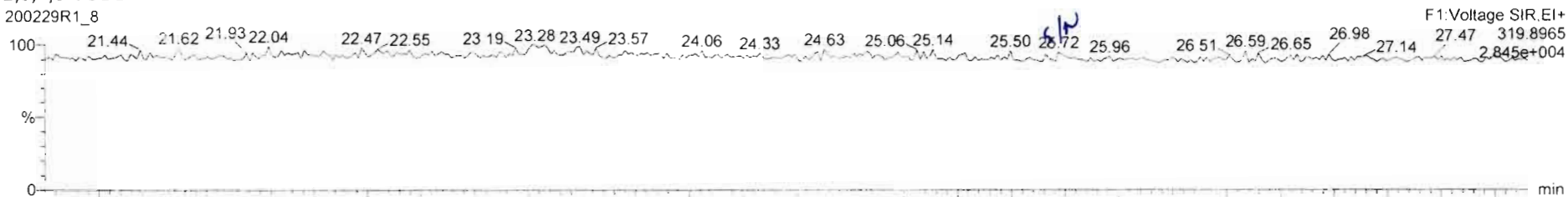
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

dy 03-06-2020

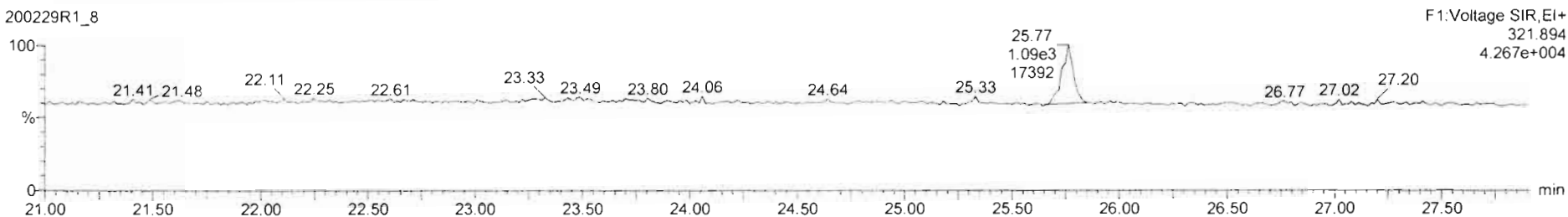
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2,3,7,8-TCDD

200229R1_8

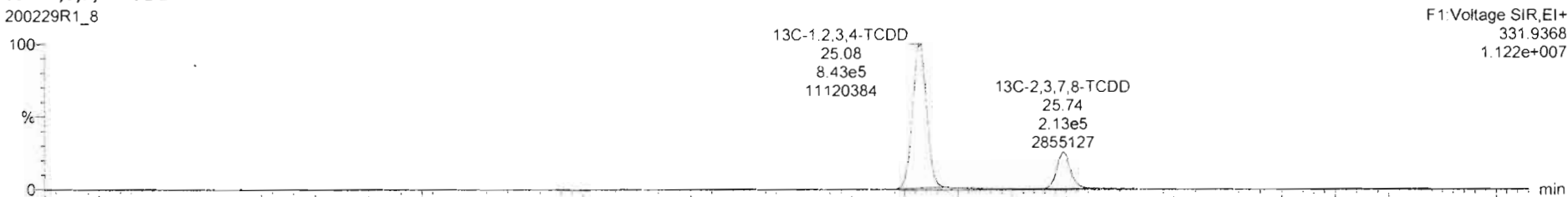


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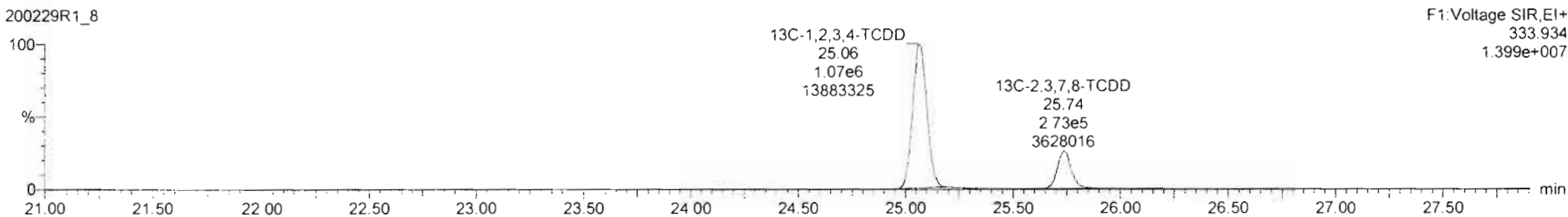


13C-2,3,7,8-TCDD

200229R1_8



200229R1_8



Dataset: Untitled

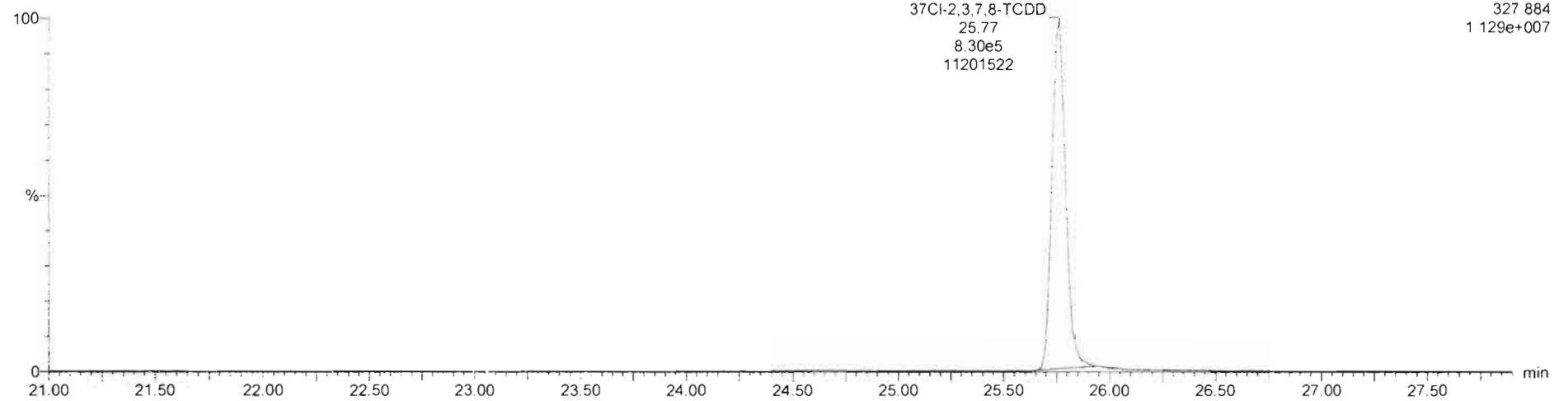
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

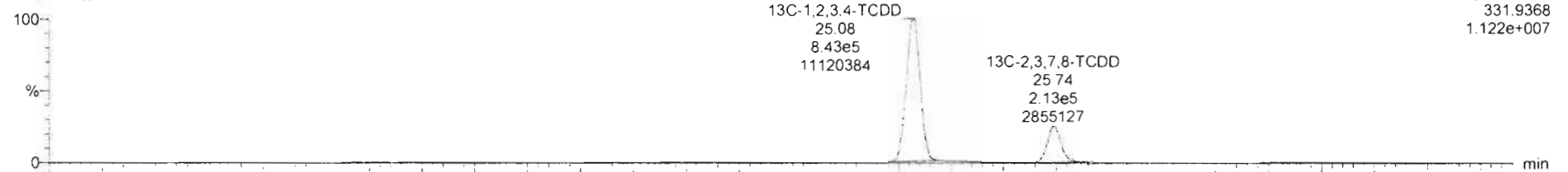
37Cl-2,3,7,8-TCDD

200229R1_8

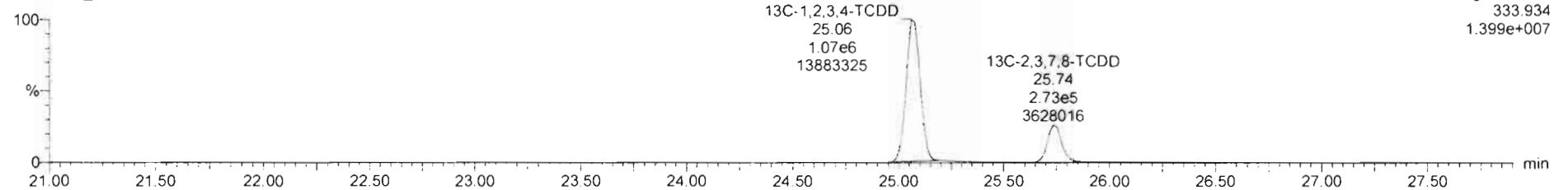


13C-1,2,3,4-TCDD

200229R1_8



200229R1_8



Dataset: Untitled

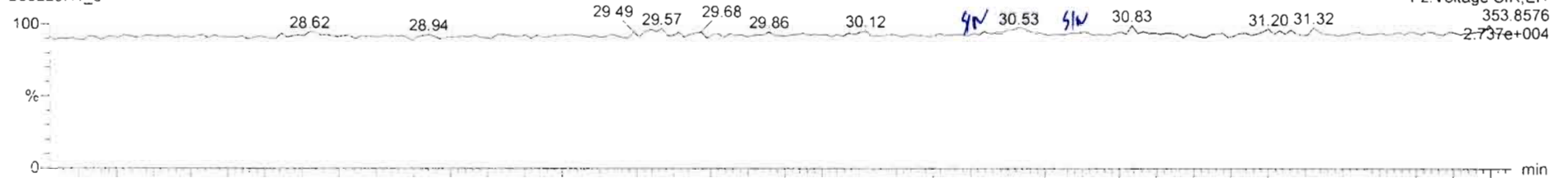
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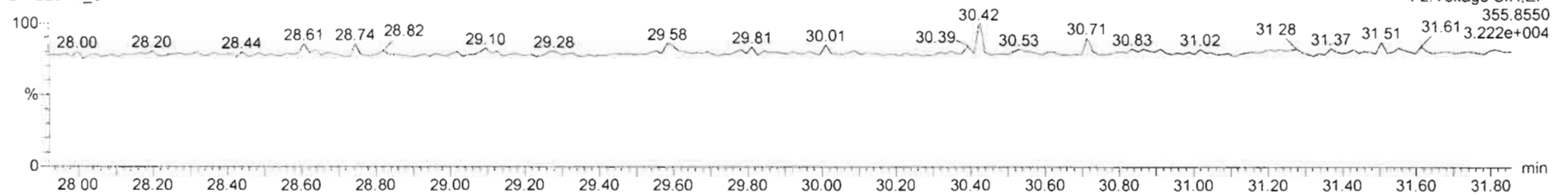
Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

1,2,3,7,8-PeCDD

200229R1_8

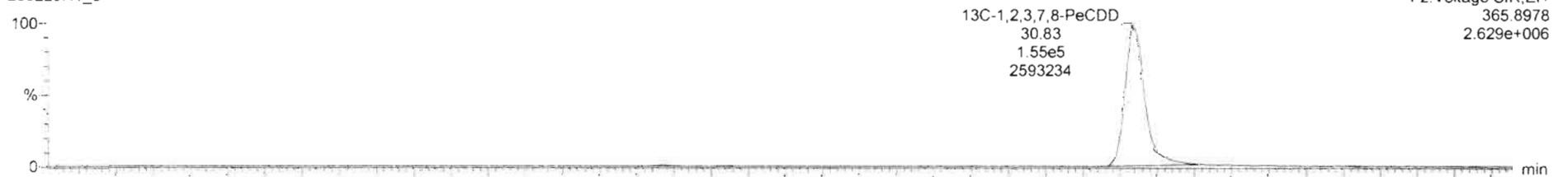


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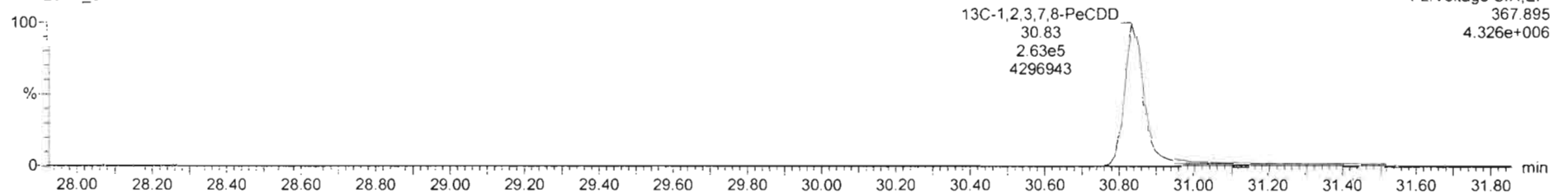


13C-1,2,3,7,8-PeCDD

200229R1_8



200229R1_8



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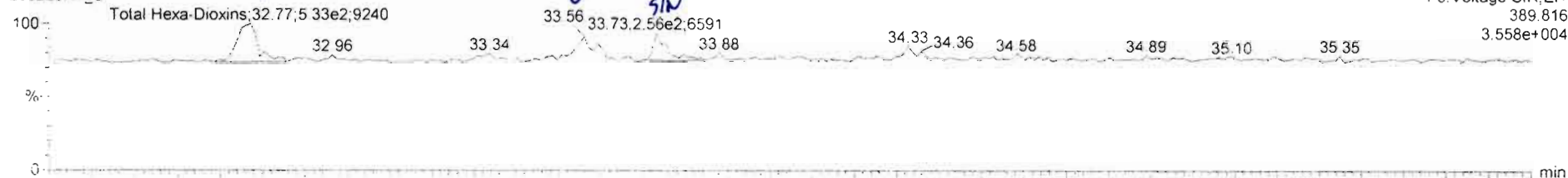
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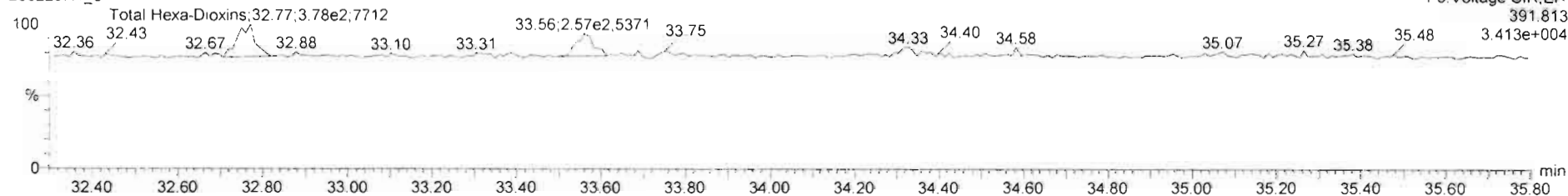
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1,2,3,4,7,8-HxCDD

200229R1_8

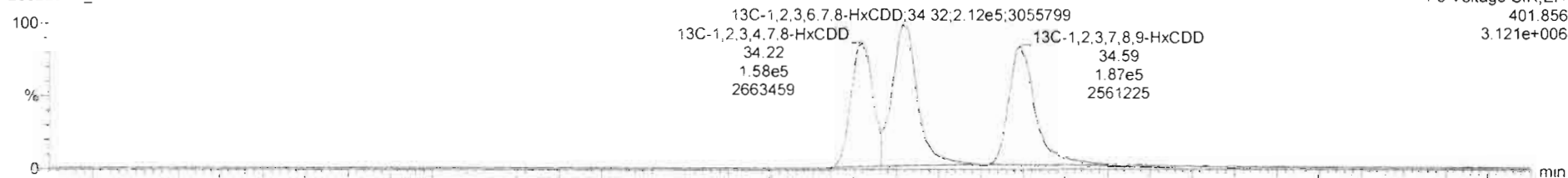


200229R1_8

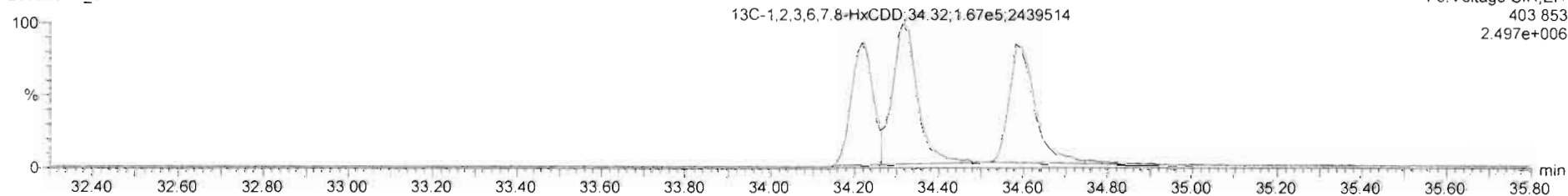


13C-1,2,3,4,7,8-HxCDD

200229R1_8



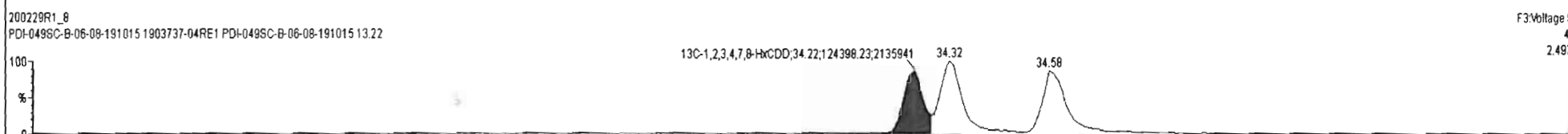
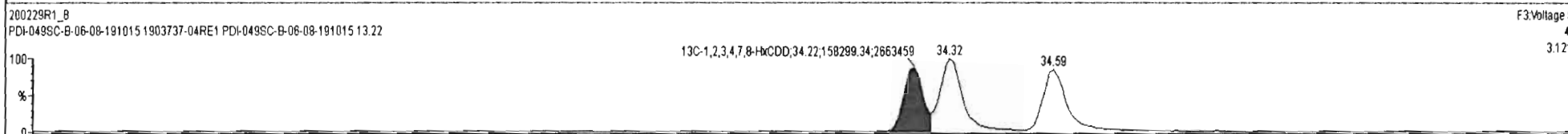
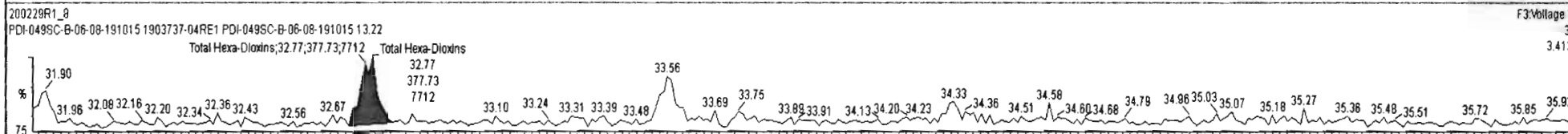
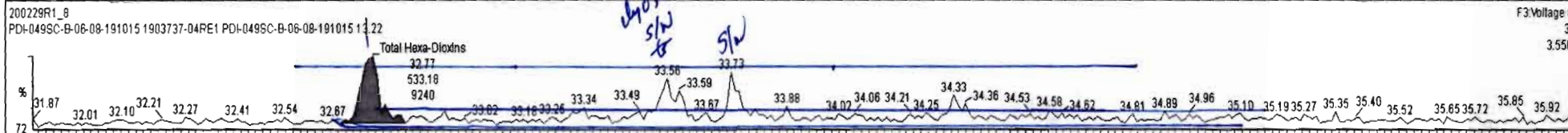
200229R1_8



200229R1_8 - 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22 - PDI-049SC-B-06-08-191015

#	Name	Resp	RA	n/y	R/R	wt/val	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.008	24.52		0.000		NO			0.122	
40	Total Penta-Dioxins				0.9723	10.008	29.96		0.000		NO			0.0697	
41	Total Hexa-Dioxins				0.9211	10.008	33.63		0.000		NO	0.5951		0.221	0.5950
42	Total Hepta-Dioxins				0.9231	10.008	37.54		0.000		NO	6.571		0.534	6.571
43	Total Tetra-Furans				0.8020	10.008	23.61		0.000		NO	0.0000		0.0813	0.2350
44	1st Func. Penta-Furans				0.9074	10.008	27.09		0.000		NO	0.7884		0.0980	0.7880
45	Total Penta-Furans				0.9074	10.008	29.27		0.000		NO	0.0000		0.0739	0.1720
46	Total Hexa-Furans				0.8982	10.008	33.56		0.000		NO	1.519		0.164	1.785
47	Total Hepta-Furans				0.8511	10.008	37.83		0.000		NO	4.812		0.421	4.812

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
41	Total Hexa-Dioxins	33.63	32.77	5.332e2	3.777e2	1.240	1.41	NO	0.59500	0.59513



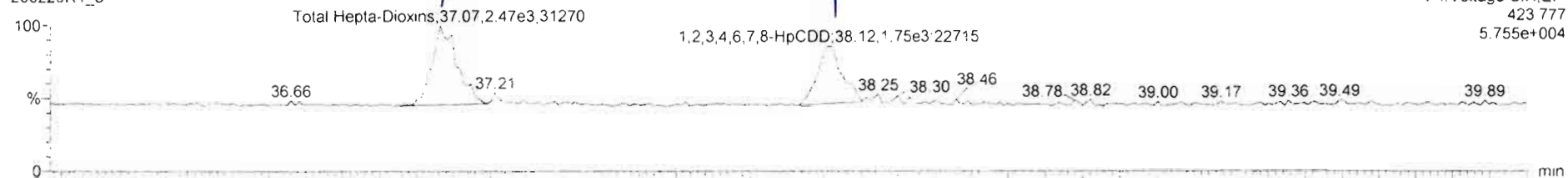
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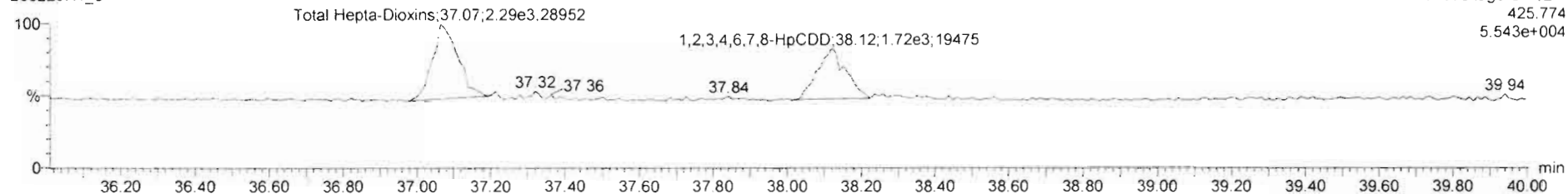
Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

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

200229R1_8

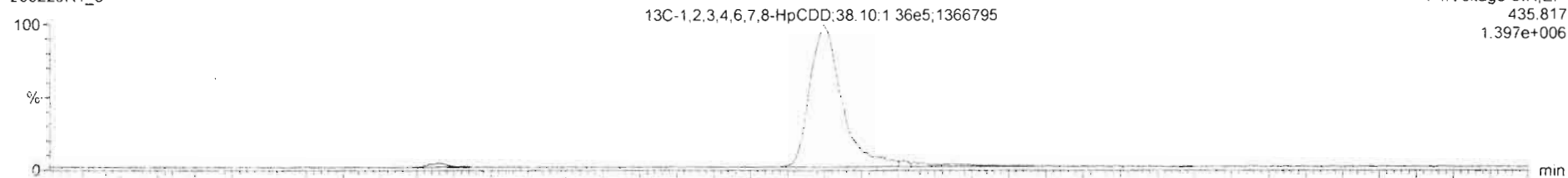


200229R1_8

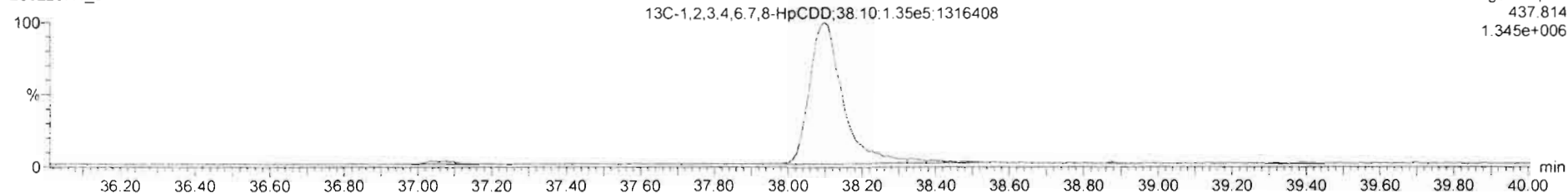


13C-1,2,3,4,6,7,8-HpCDD

200229R1_8



200229R1_8

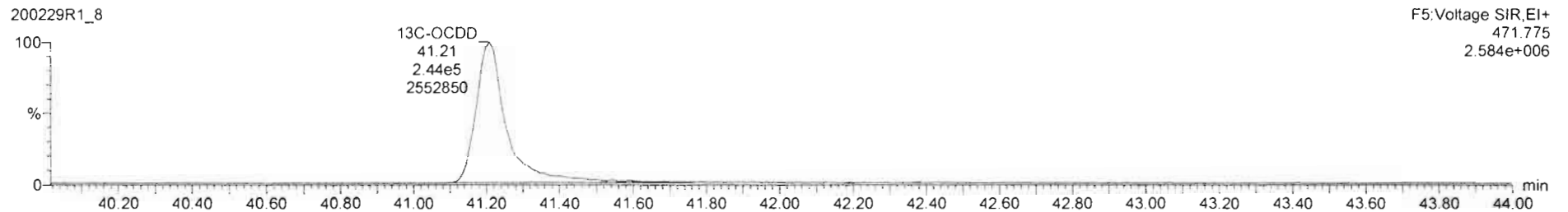
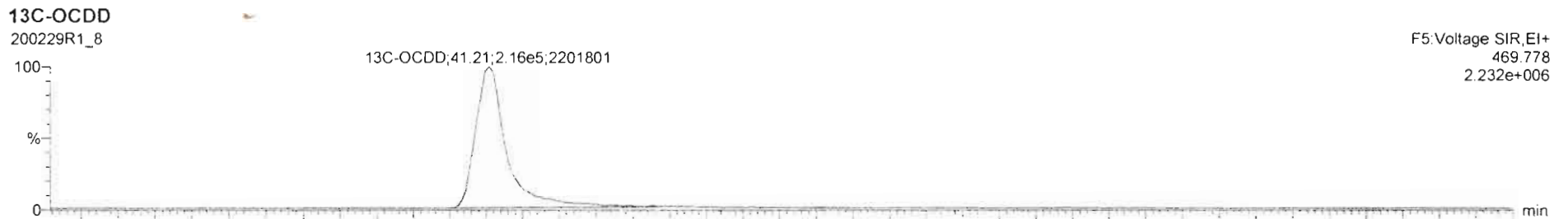
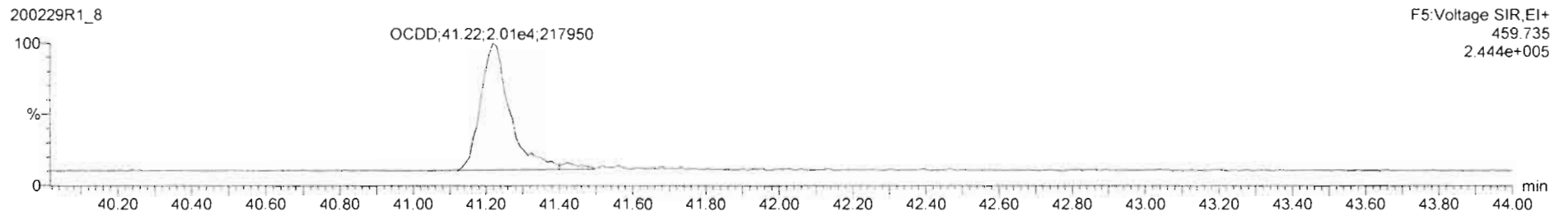
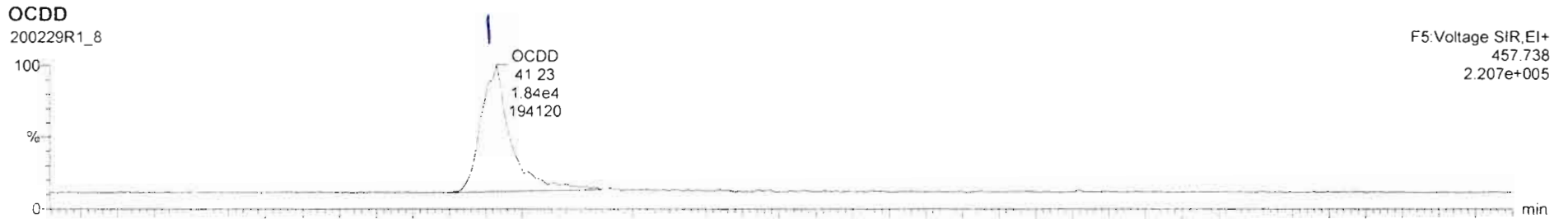


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Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015



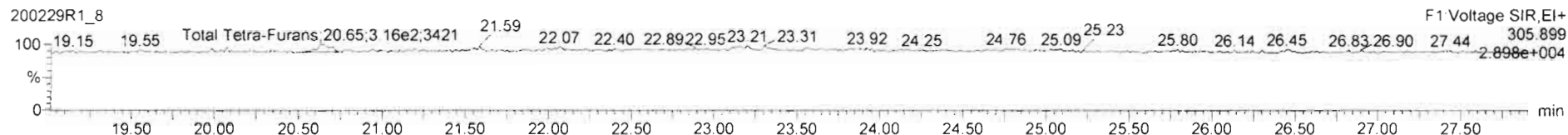
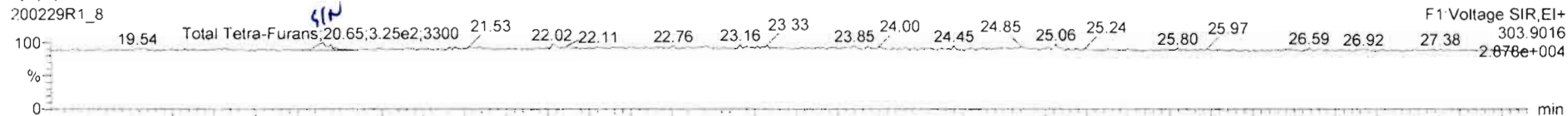
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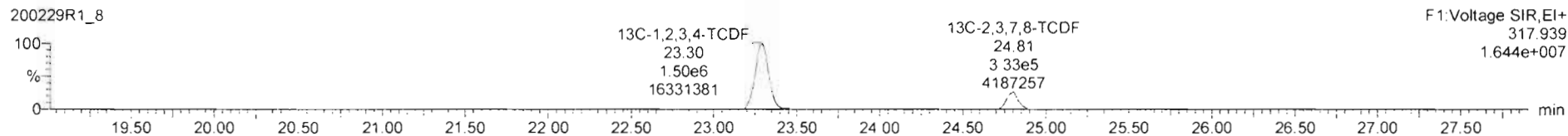
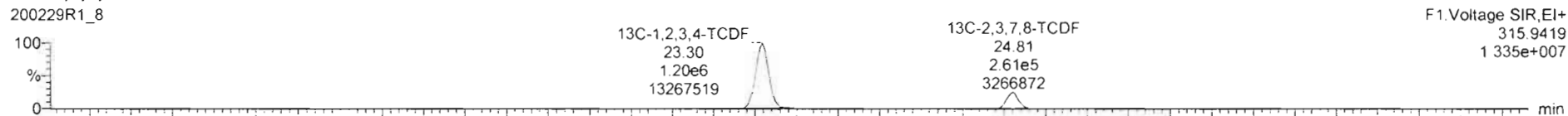
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Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

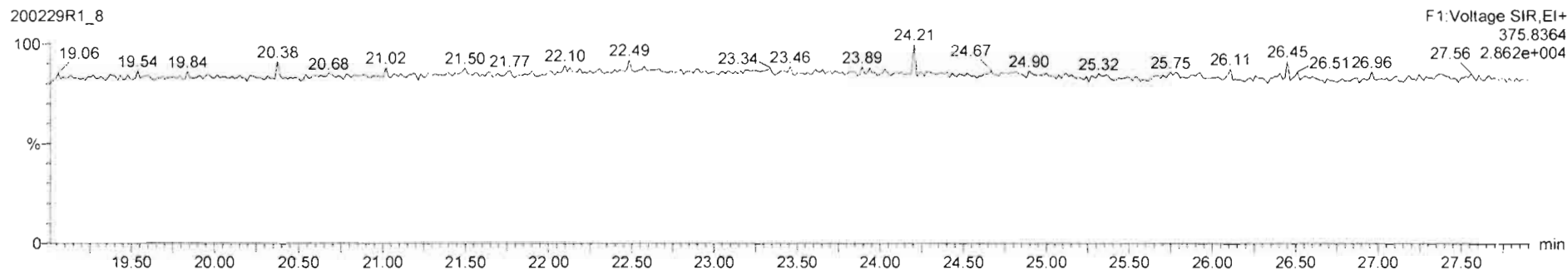
2,3,7,8-TCDF



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

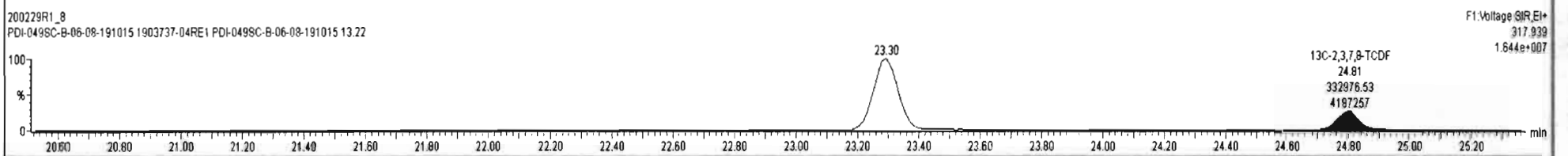
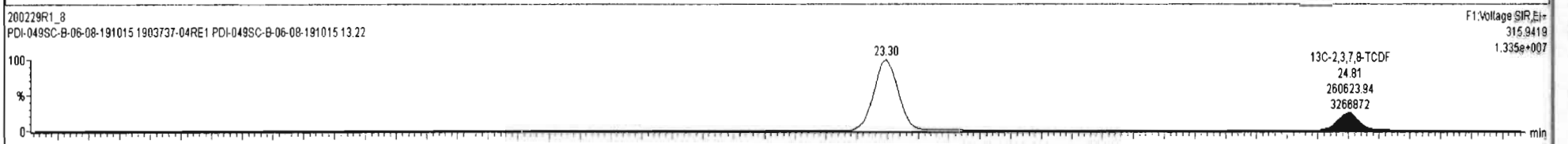
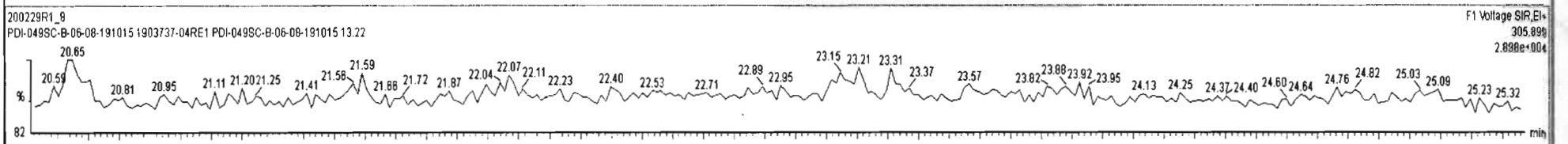
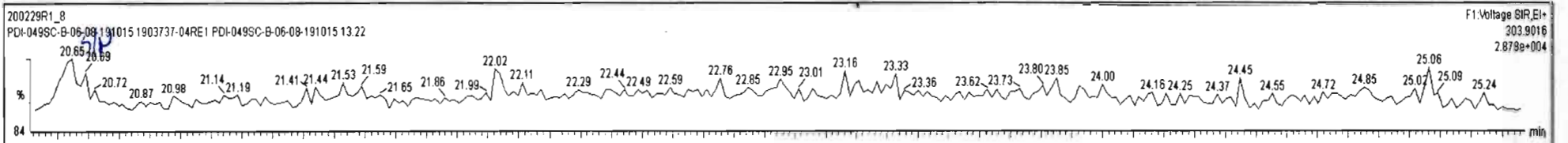


DPE1



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9681	10.008	24.62		0.000		NO			0.122	
40	Total Penta-Dioxins				0.9723	10.008	29.96		0.000		NO			0.0697	
41	Total Hexa-Dioxins				0.9211	10.008	33.63		0.000		NO	0.5951		0.221	0.5951
42	Total Hepta-Dioxins				0.9231	10.008	37.84		0.000		NO	6.571		0.534	6.571
43	Total Tetra-Furans				0.9020	10.008	23.81		0.000		NO			0.0813	
44	1st Func. Penta-Furans				0.9074	10.008	27.09		0.000		NO	0.7884		0.0890	0.7884
45	Total Penta-Furans				0.9074	10.008	29.27		0.000		NO	0.0000		0.0739	0.1720
46	Total Hexa-Furans				0.8982	10.008	33.58		0.000		NO	1.519		0.184	1.785
47	Total Hepta-Furans				0.8511	10.008	37.83		0.000		NO	4.812		0.421	4.812

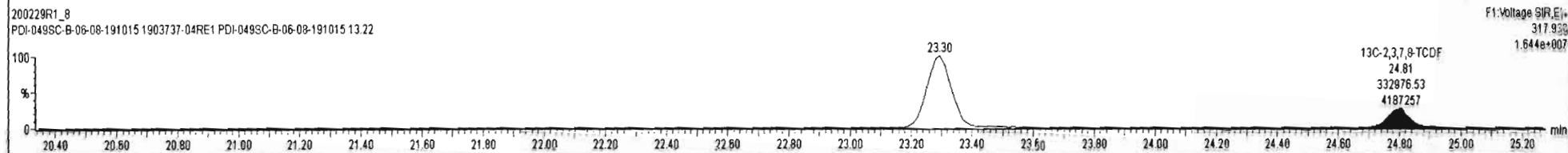
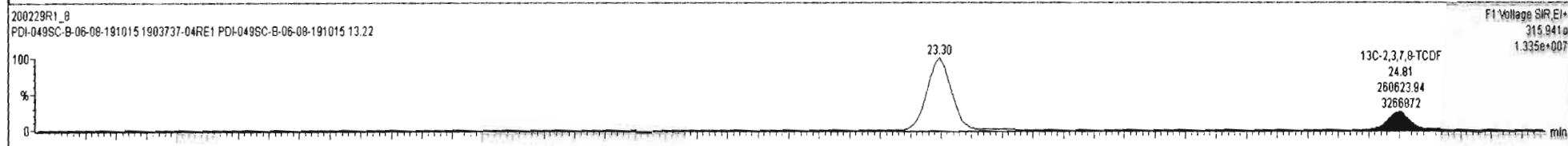
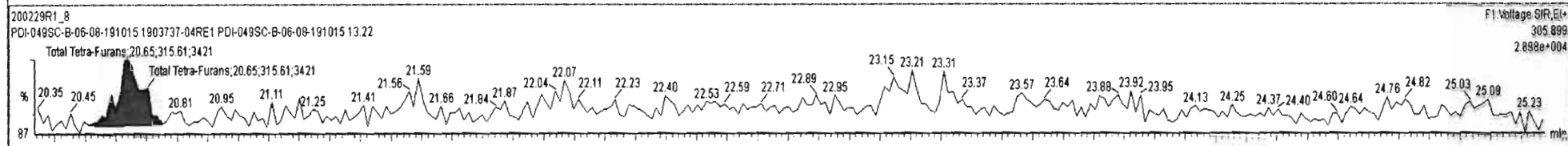
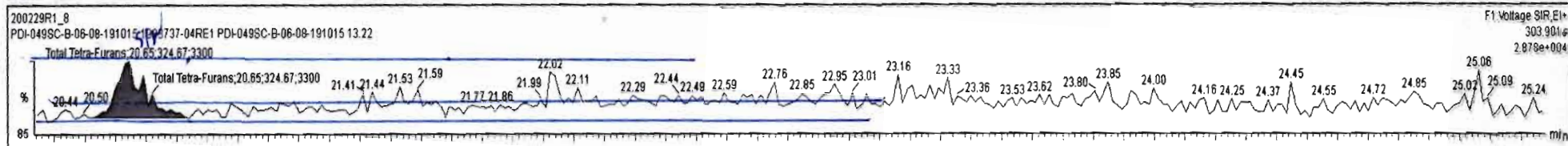
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



200229R1_8 - 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22 - PDI-049SC-B-06-08-191015

#	Name	Resp	RA	n/y	R/R	w/Aol	Pred RT	RT	Pred R.	R/R	R/R Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.008	24.62		0.000		NO			0.122	
40	Total Penta-Dioxins				0.9723	10.008	29.96		0.000		NO			0.0697	
41	Total Hexa-Dioxins				0.9211	10.008	33.63		0.000		NO	0.5951		0.221	0.5950
42	Total Hepta-Dioxins				0.9231	10.008	37.84		0.000		NO	6.571		0.534	6.571
43	Total Tetra-Furans				0.9020	10.008	23.81		0.000		NO	0.0000		0.0613	0.2350
44	1st Func. Penta-Furans				0.9074	10.008	27.09		0.000		NO	0.7684		0.0890	0.7680
45	Total Penta-Furans				0.9074	10.008	29.27		0.000		NO	0.0000		0.0738	0.1720
46	Total Hexa-Furans				0.8982	10.008	33.56		0.000		NO	1.519		0.164	1.785
47	Total Hepta-Furans				0.8511	10.008	37.83		0.000		NO	4.812		0.421	4.812

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
43	Total Tetra-Furans	23.61	20.65	3.247e2	3.156e2	0.770	1.03	YES	0.23500	0.00000



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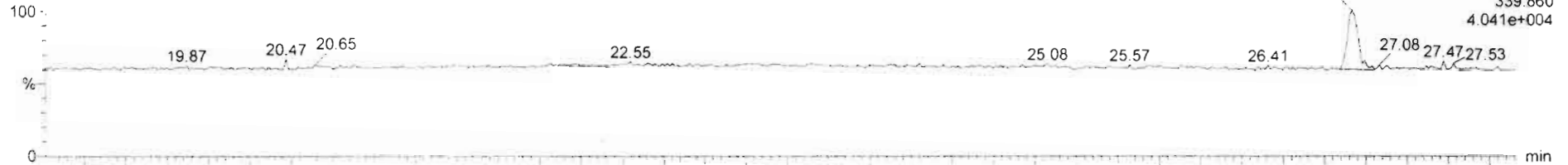
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1st Func. Penta-Furans

200229R1_8

1st Func. Penta-Furans; 26.92; 1.27e3; 16313

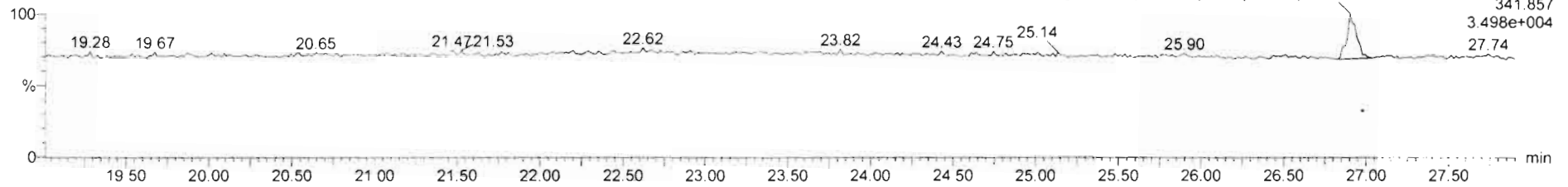
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339.860
4.041e+004



200229R1_8

1st Func. Penta-Furans; 26.90; 7.41e2; 10941

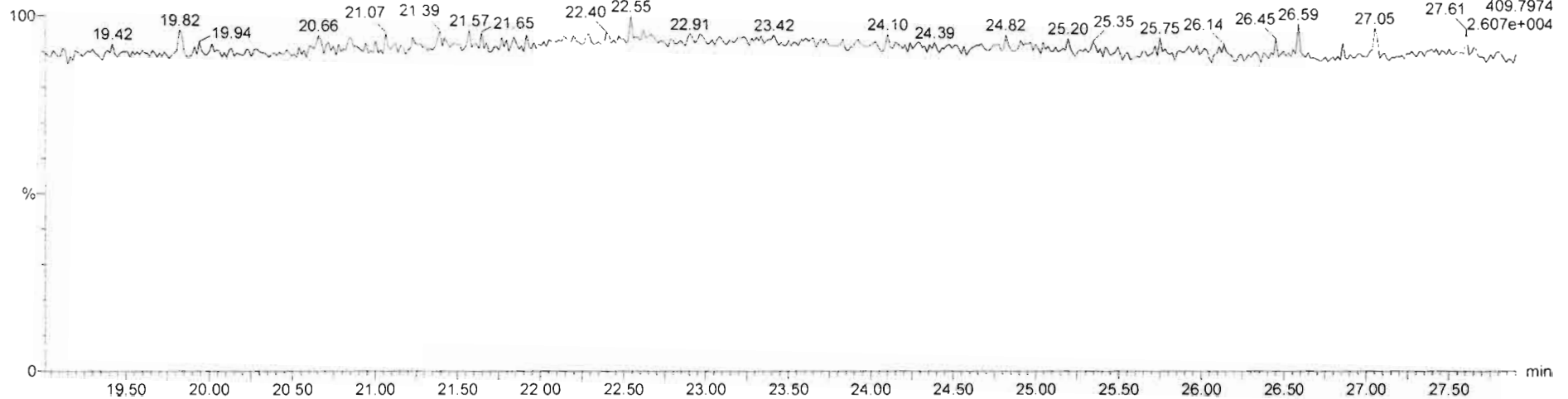
F1: Voltage SIR, EI+
341.857
3.498e+004



DPE6

200229R1_8

F1: Voltage SIR, EI+
409.7974
2.607e+004

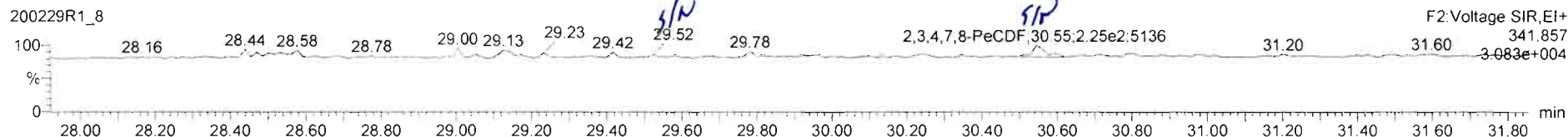
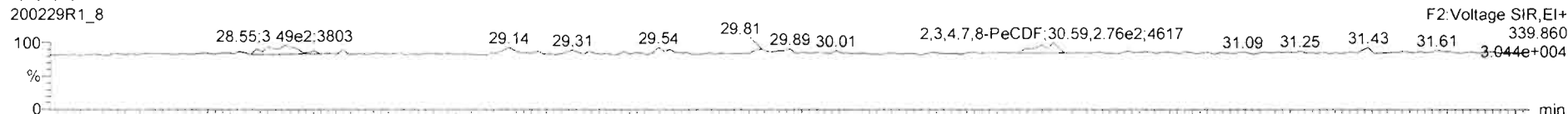


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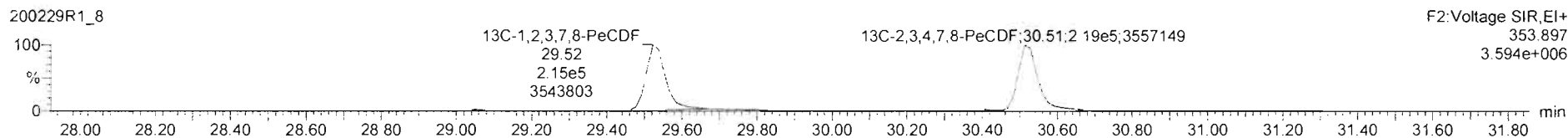
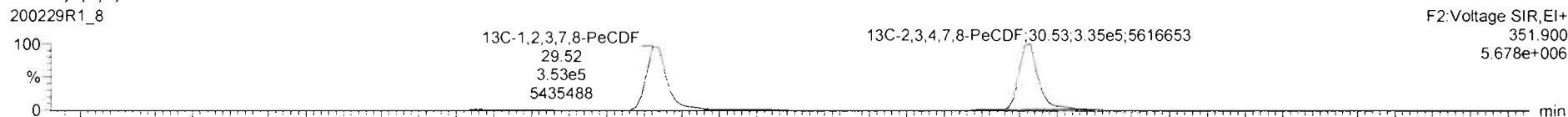
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Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

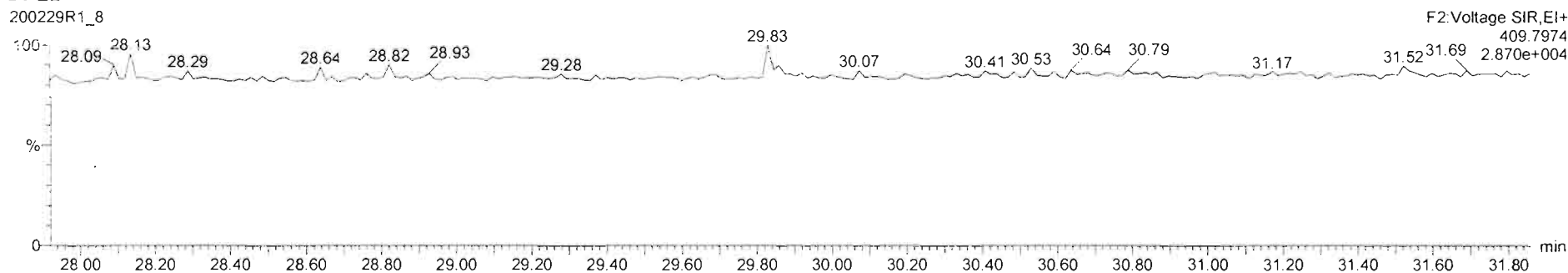
1,2,3,7,8-PeCDF



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



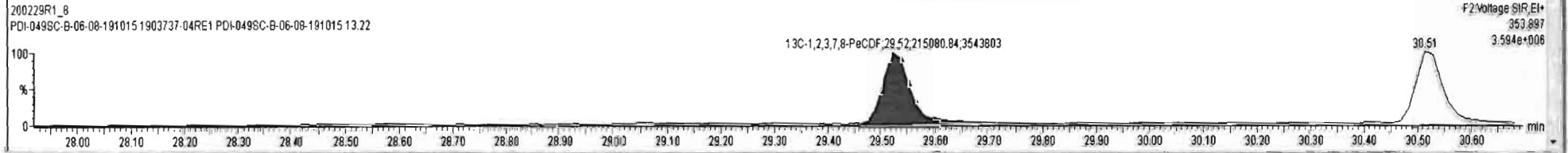
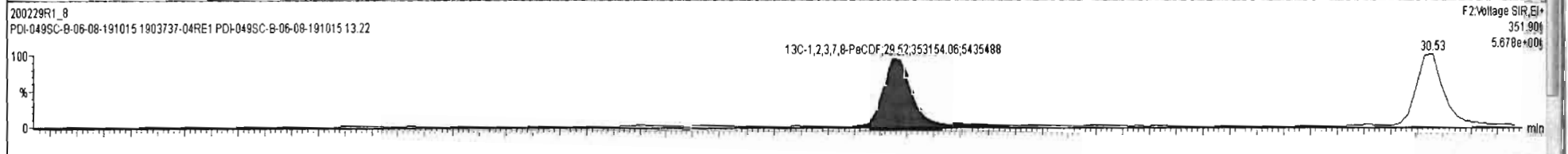
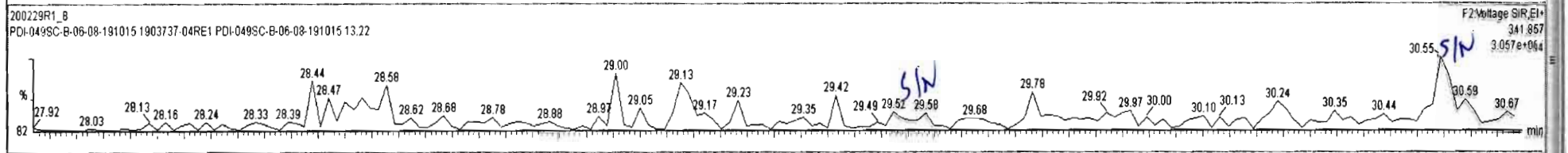
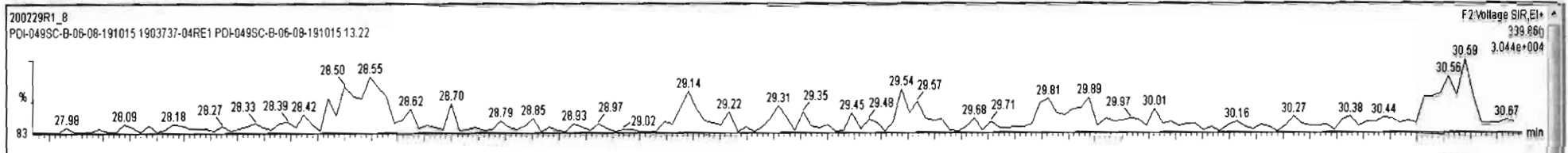
DPE2

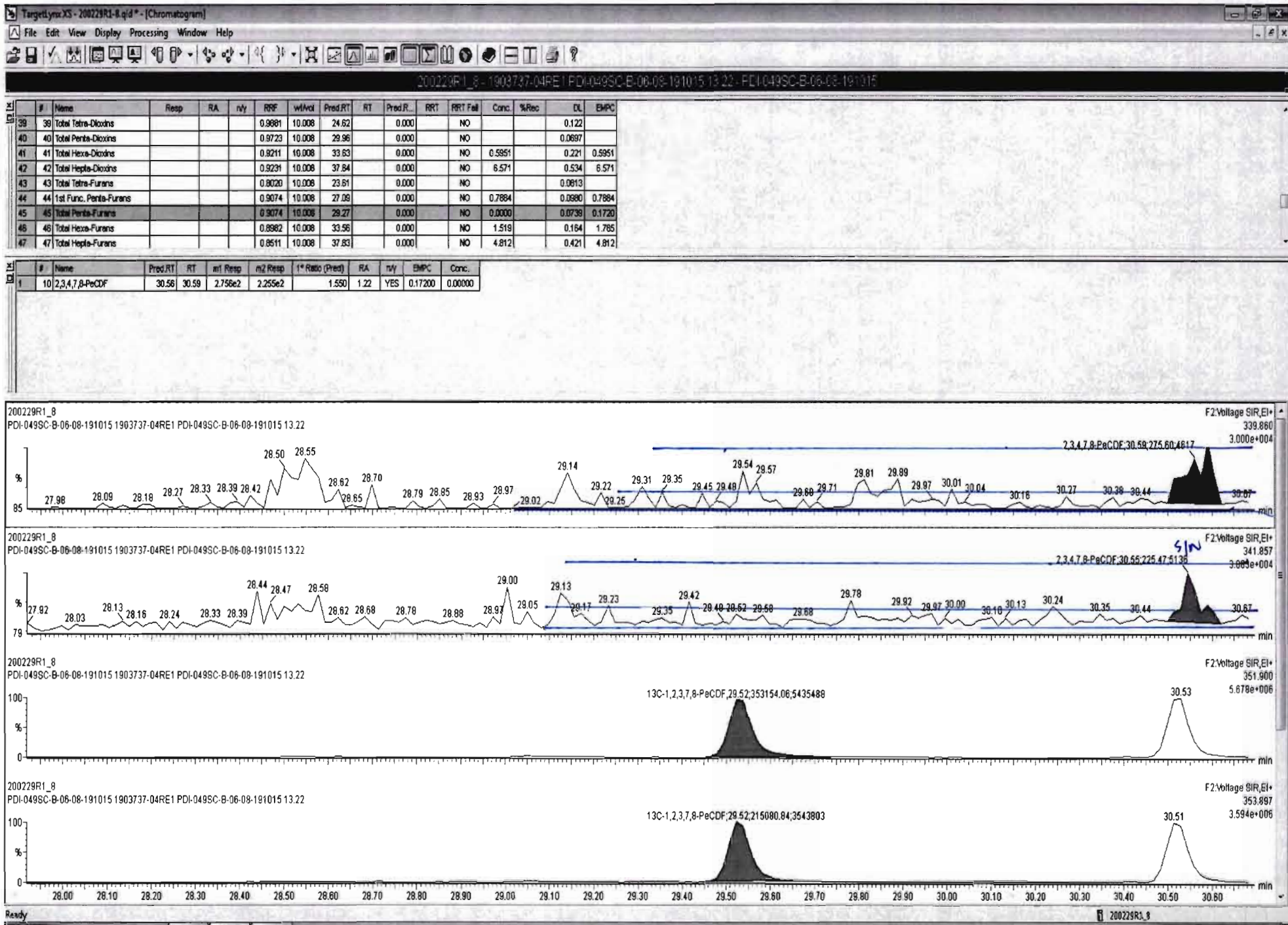


200229R1_8 - 1903737-04RE1 PDI-049SC-B-06-08-191015 13:22 - PDI-049SC-B-06-08-191015

#	Name	Resp	RA	n/y	RPF	wAval	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.008	24.62		0.000		NO			0.122	
40	Total Penta-Dioxins				0.9723	10.008	29.96		0.000		NO			0.0697	
41	Total Hexa-Dioxins				0.9211	10.008	33.63		0.000		NO	0.5951		0.221	0.5951
42	Total Hepta-Dioxins				0.9231	10.008	37.64		0.000		NO	6.571		0.534	6.571
43	Total Tetra-Furans				0.9020	10.008	23.61		0.000		NO			0.0813	
44	1st Func. Penta-Furans				0.9074	10.008	27.09		0.000		NO	0.7884		0.0990	0.7884
45	Total Penta-Furans				0.9074	10.008	29.27		0.000		NO			0.0738	
46	Total Hexa-Furans				0.8982	10.008	33.56		0.000		NO	1.519		0.164	1.785
47	Total Hepta-Furans				0.8511	10.008	37.83		0.000		NO	4.812		0.421	4.812

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





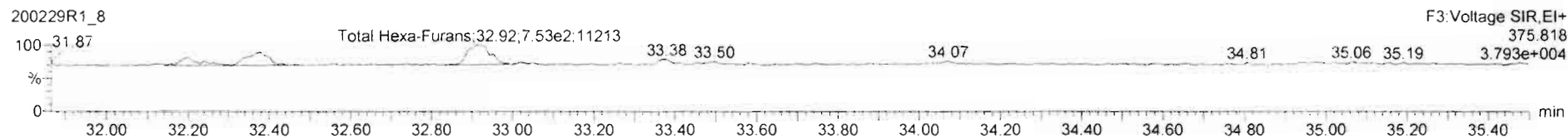
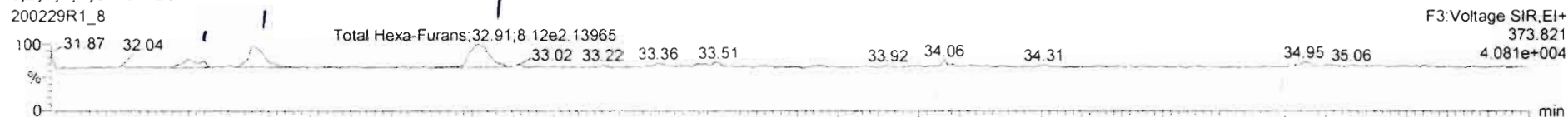
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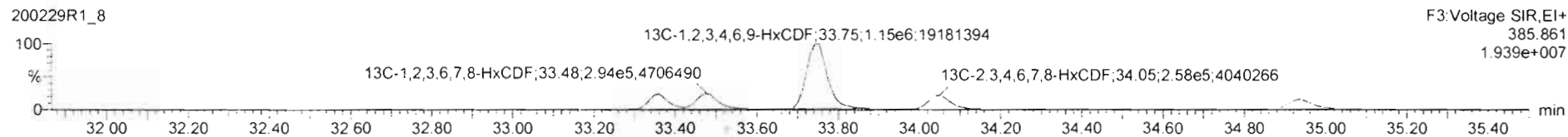
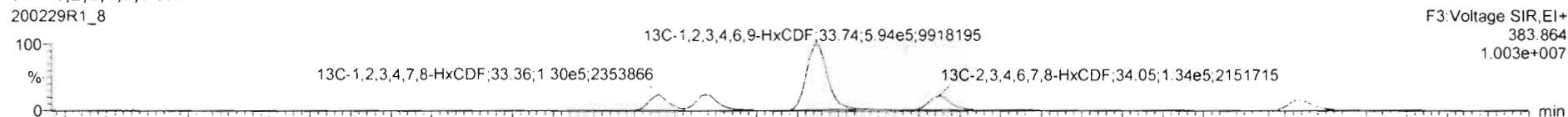
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Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

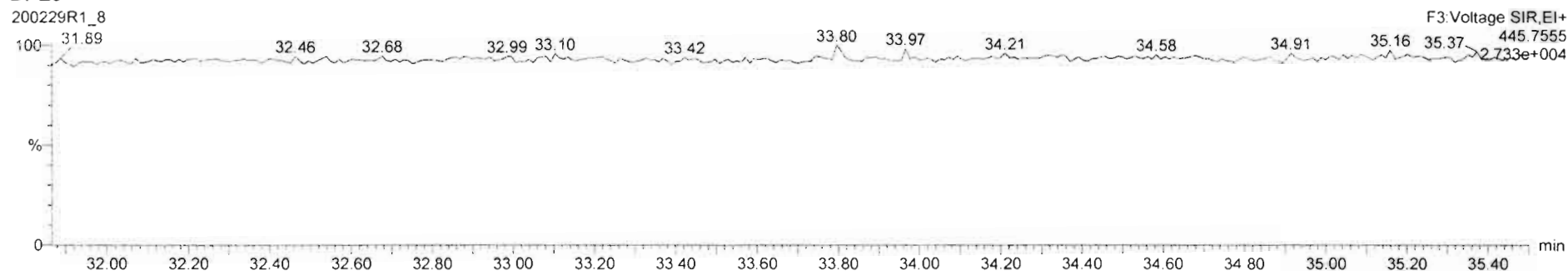
1,2,3,4,7,8-HxCDF



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



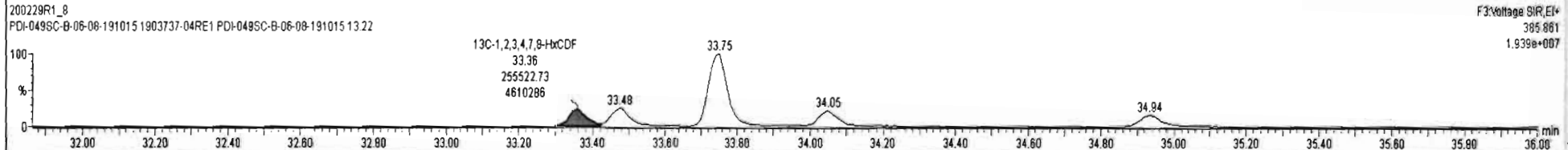
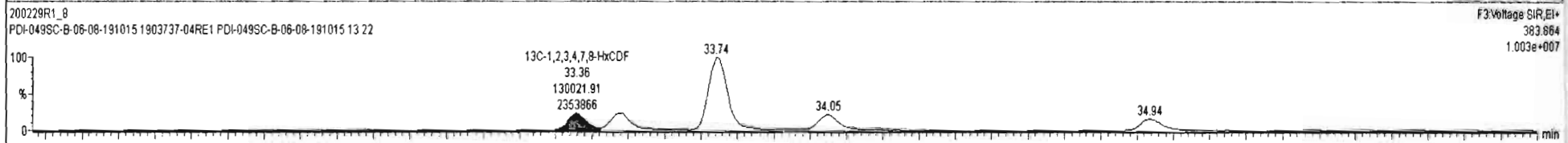
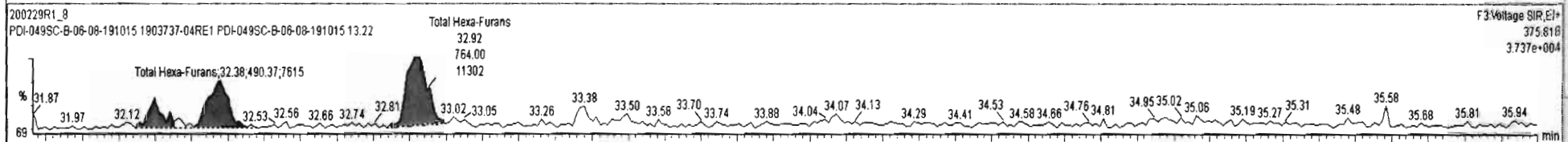
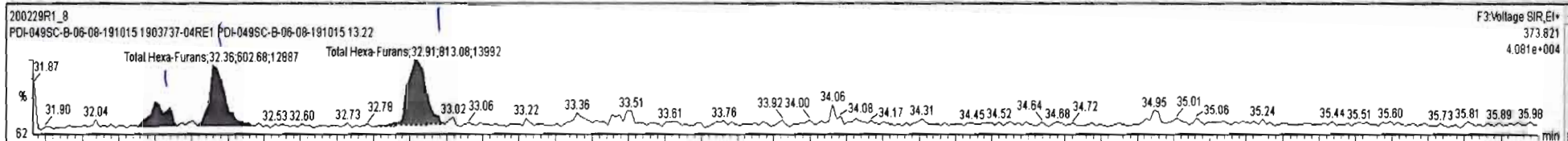
DPE3

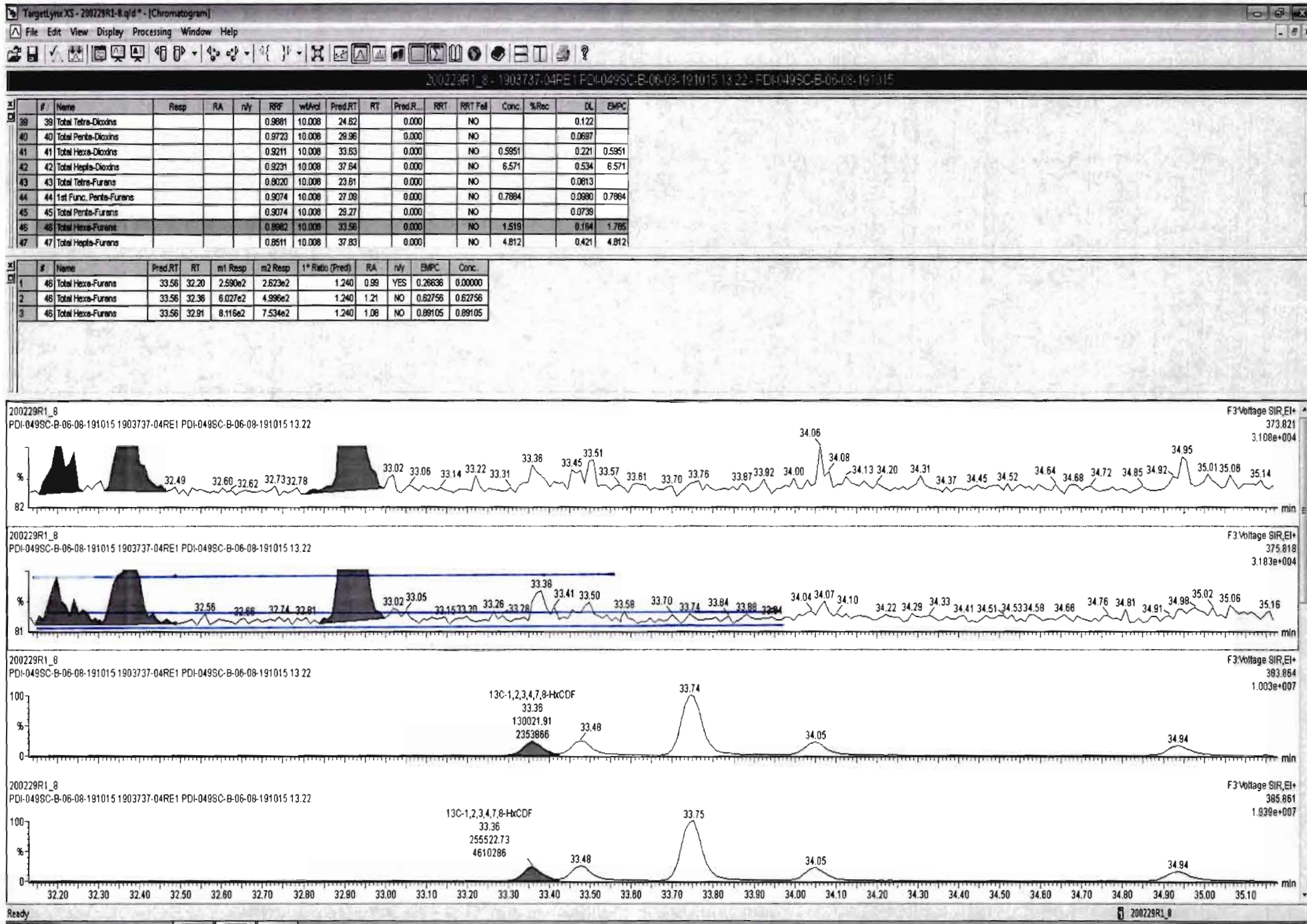


200229R1_8 - 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22 - PDI-049SC-B-06-06-191015

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred_RT	RT	Pred_R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9681	10.008	24.52		0.000		NO			0.122	
40	Total Penta-Dioxins				0.9723	10.008	29.96		0.000		NO			0.0697	
41	Total Hexa-Dioxins				0.9211	10.008	33.53		0.000		NO	0.5951		0.221	0.5951
42	Total Hepta-Dioxins				0.9231	10.008	37.54		0.000		NO	6.571		0.534	6.571
43	Total Tetra-Furans				0.8020	10.008	23.61		0.000		NO			0.0813	
44	1st Func. Penta-Furans				0.9074	10.008	27.09		0.000		NO	0.7684		0.0960	0.7684
45	Total Penta-Furans				0.9074	10.008	29.27		0.000		NO			0.0738	
46	Total Hexa-Furans				0.8982	10.008	33.56		0.000		NO	1.793		0.154	1.793
47	Total Hepta-Furans				0.8511	10.008	37.83		0.000		NO	4.812		0.421	4.812

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.56	32.20	2.590e2	2.195e2	1.240	1.18	NO	0.27243	0.27243
2	Total Hexa-Furans	33.56	32.36	6.027e2	4.904e2	1.240	1.23	NO	0.62233	0.62233
3	Total Hexa-Furans	33.56	32.91	8.131e2	7.640e2	1.240	1.06	NO	0.89791	0.89791



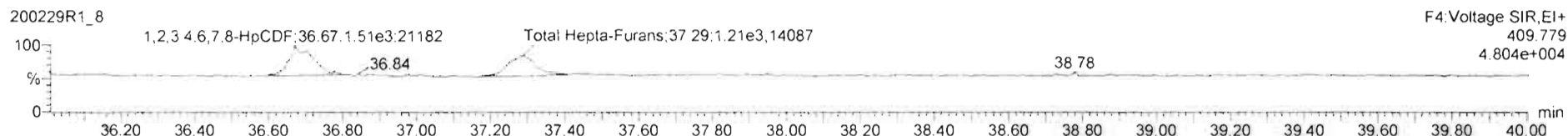
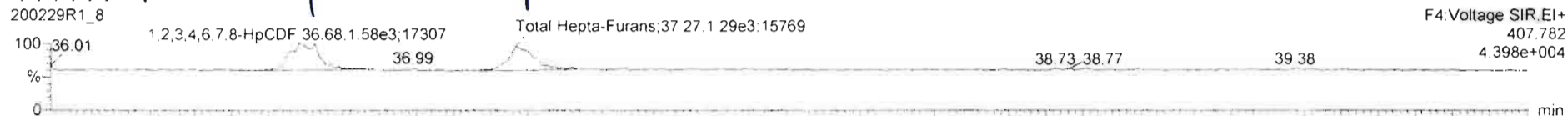


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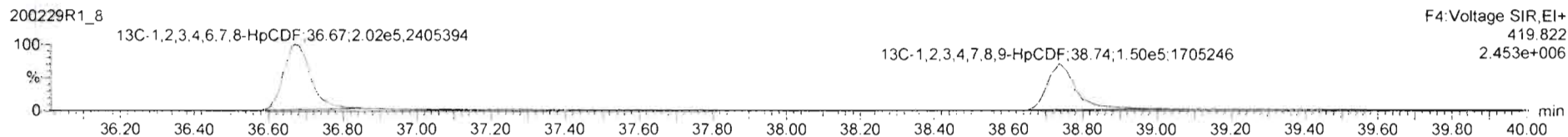
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015

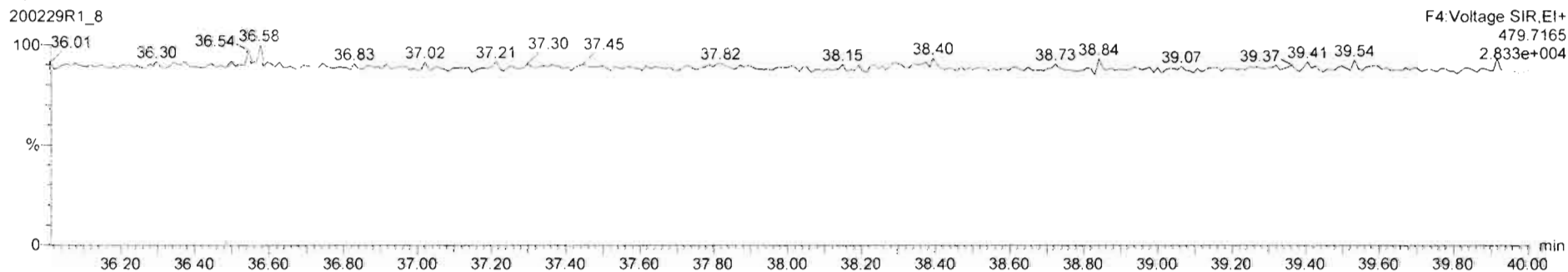
1,2,3,4,6,7,8-HpCDF



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



DPE4

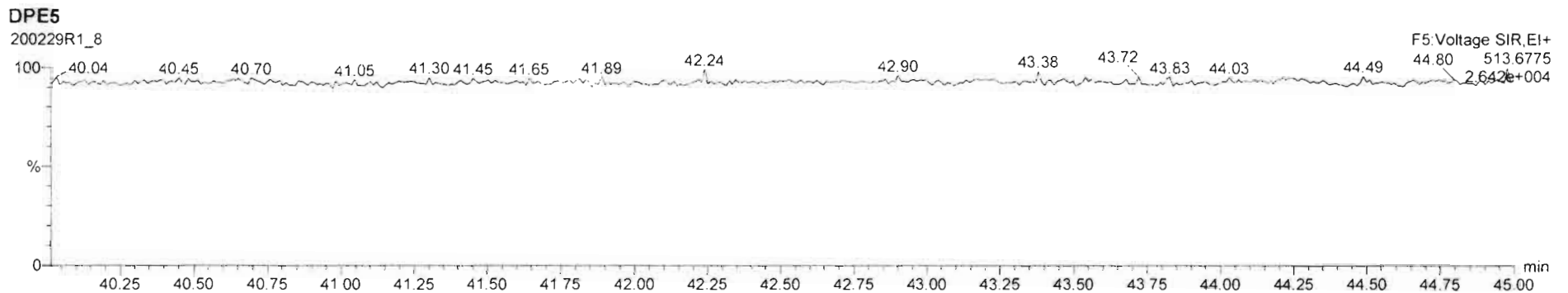
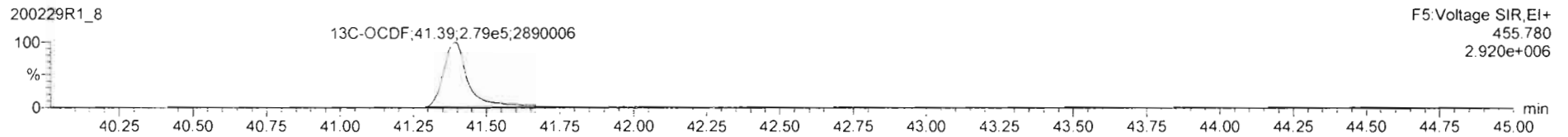
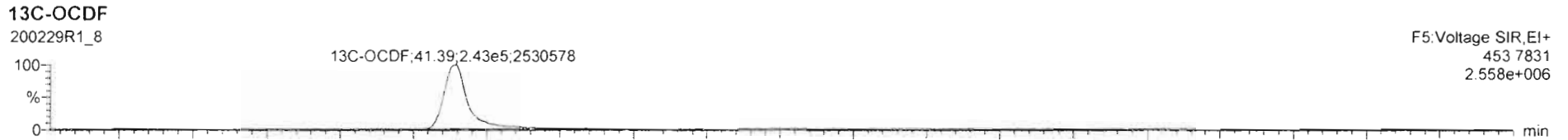
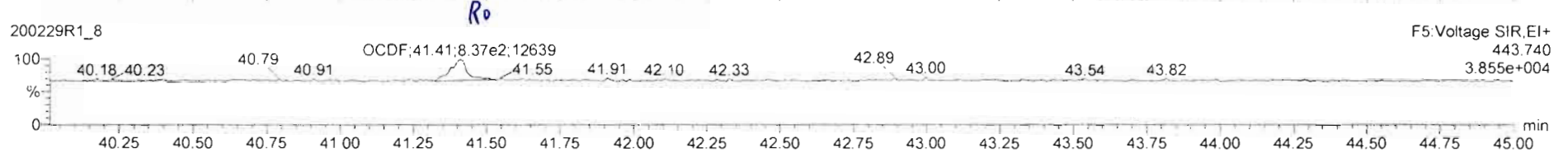
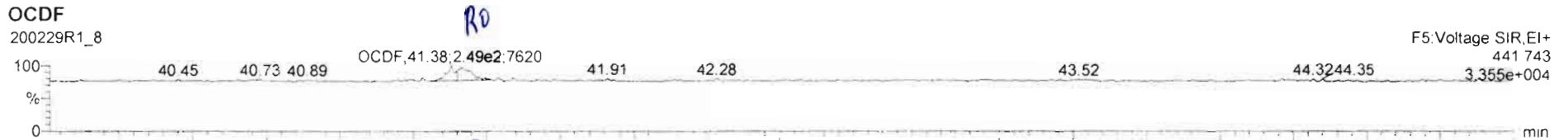


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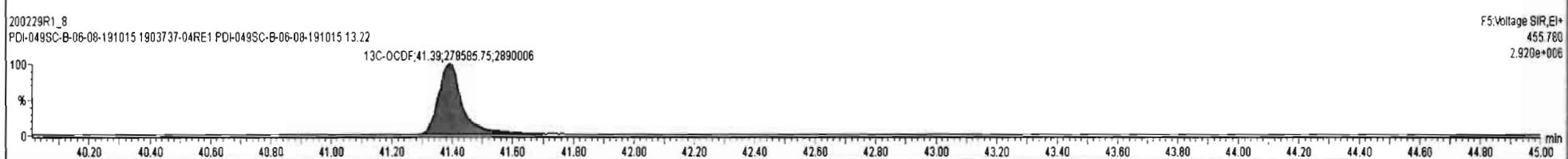
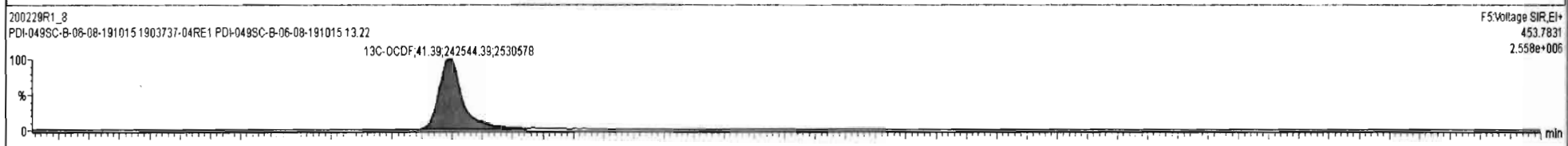
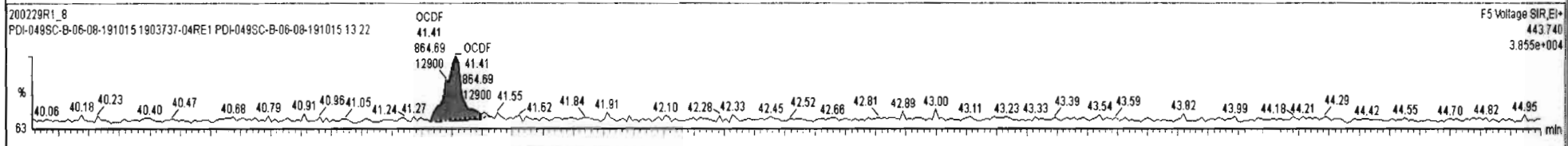
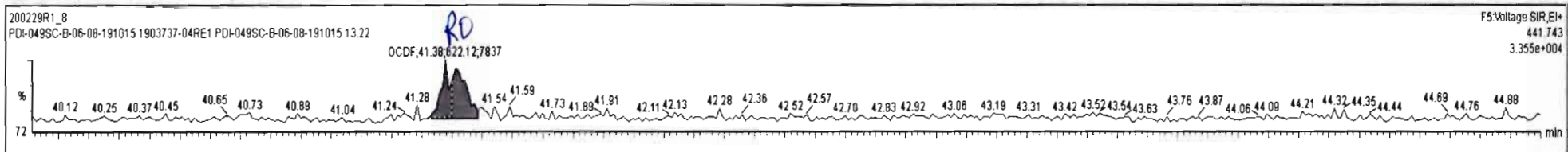
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.RT	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
17	17 OCDF	1.49e3	0.72	YES	0.8095	10.008	41.38	41.38	1.000	1.000	NO	1.416		0.460	1.258
18	18 13C-2,3,7,8-TCDD	4.87e5	0.78	NO	1.1985	10.008	25.72	25.74	1.026	1.026	NO	42.50	21.3	0.125	
19	19 13C-1,2,3,7,8-PeCDD	4.18e5	0.59	NO	0.9687	10.008	30.86	30.83	1.230	1.230	NO	45.25	22.6	0.182	
20	20 13C-1,2,3,4,7,8-HxCDD	2.83e5	1.27	NO	0.8739	10.008	34.21	34.22	1.014	1.014	NO	37.17	18.6	0.221	
21	21 13C-1,2,3,6,7,8-HxCDD	3.79e5	1.27	NO	1.0458	10.008	34.32	34.32	1.017	1.017	NO	41.67	20.9	0.184	
22	22 13C-1,2,3,7,8-HxCDD	3.34e5	1.28	NO	0.9744	10.008	34.62	34.59	1.026	1.025	NO	39.42	19.7	0.198	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.71e5	1.00	NO	0.7472	10.008	38.20	38.10	1.132	1.129	NO	41.67	20.9	0.256	
24	24 13C-OCDD	4.60e5	0.88	NO	0.7065	10.008	41.10	41.21	1.218	1.221	NO	74.83	18.7	0.302	
25	25 13C-2,3,7,8-TCDF	5.94e5	0.78	NO	1.0653	10.008	24.90	24.81	0.993	0.989	NO	41.28	20.7	0.282	

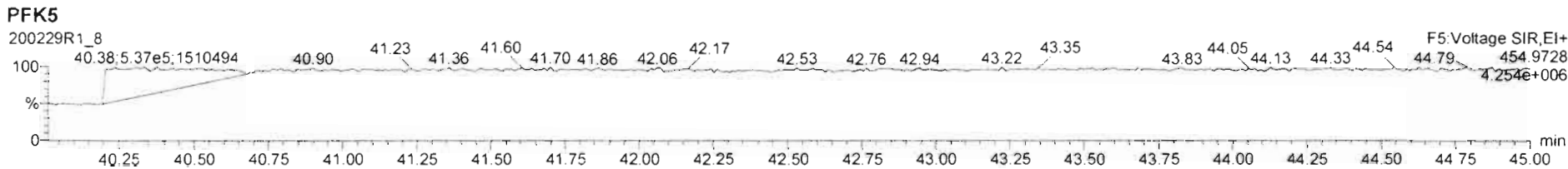
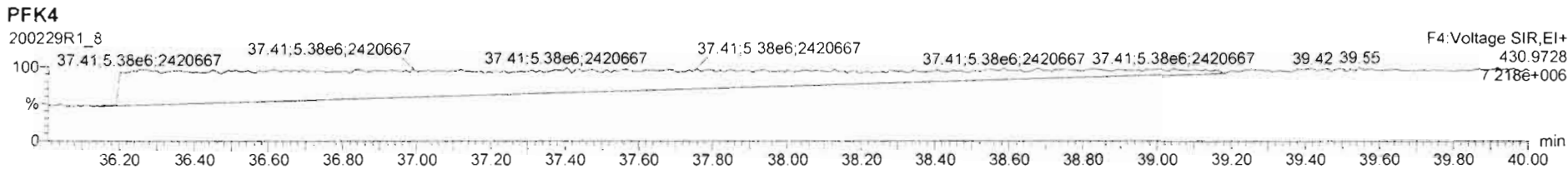
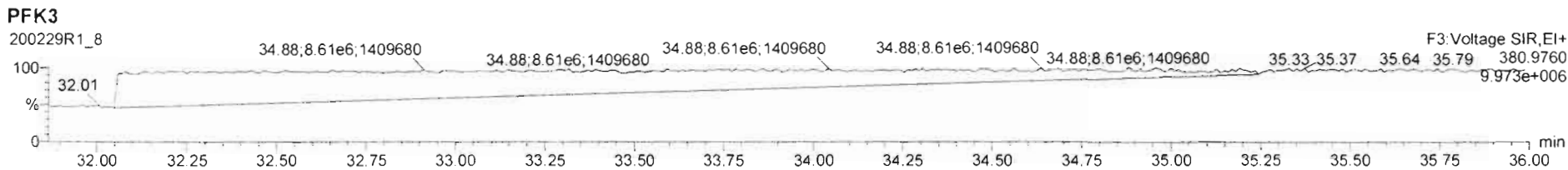
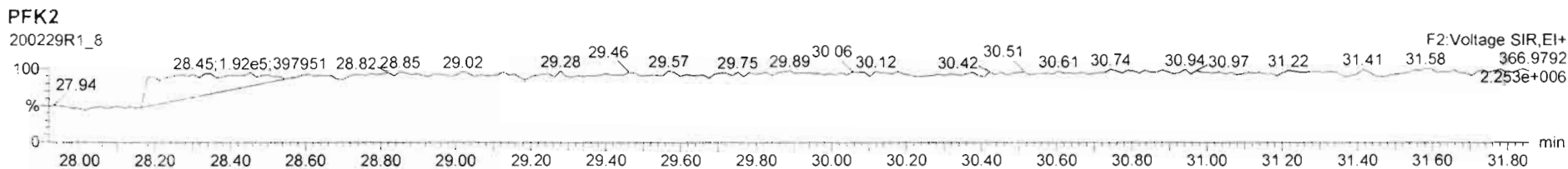
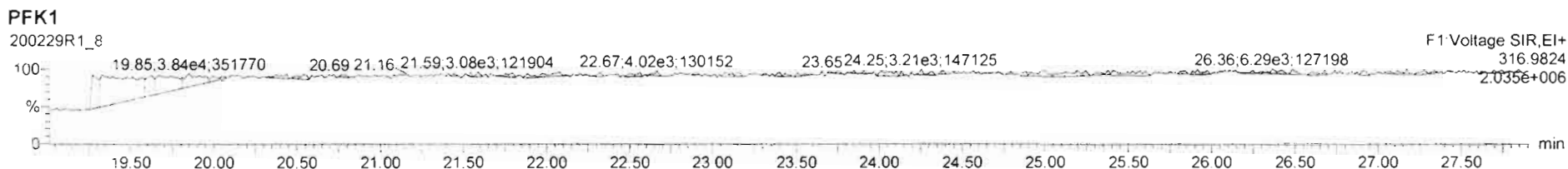
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.



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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_8, Date: 29-Feb-2020, Time: 16:46:27, ID: 1903737-04RE1 PDI-049SC-B-06-08-191015 13.22, Description: PDI-049SC-B-06-08-191015



Dataset: U:\VG12.PRO\Results\200229R1\200229R1-9.qld

Last Altered: Wednesday, March 18, 2020 11:28:08 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 11:37:11 Pacific Daylight Time

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CT 03/19/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R1_9, Date: 29-Feb-2020, Time: 17:33:52, ID: 1903737-05RE1 PDI-052SC-B-00-02-191015 19.04, Description: PDI-052SC-B-00-02-191015

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.66e3	2.18e6	0.287	YES	10.04	25.75	25.76	1.00	1.00	NO	0.15420		0.054	0.0790...
2	2 1,2,3,7,8-PeCDD	9.50e2	1.73e6	0.656	NO	10.04	30.84	30.83	1.00	1.00	NO	0.11227		0.034	0.11227
3	3 1,2,3,4,7,8-HxCDD	1.45e3	1.25e6	1.091	NO	10.04	34.20	34.20	1.00	1.00	NO	0.21662		0.137	0.21662
4	4 1,2,3,6,7,8-HxCDD	9.51e3	1.61e6	1.208	NO	10.04	34.30	34.31	1.00	1.00	NO	1.2775		0.138	1.2775
5	5 1,2,3,7,8,9-HxCDD	2.74e3	1.43e6	1.095	NO	10.04	34.61	34.58	1.00	1.00	NO	0.41633		0.162	0.41633
6	6 1,2,3,4,6,7,8-HpCDD	3.14e5	1.17e6	1.046	NO	10.04	38.09	38.09	1.00	1.00	NO	57.838		0.495	57.838
7	7 OCDD	2.38e6	2.13e6	0.880	NO	10.04	41.18	41.19	1.00	1.00	NO	458.75		0.444	458.75
8	8 2,3,7,8-TCDF	5.46e4	2.66e6	0.748	NO	10.04	24.82	24.81	1.00	1.00	NO	5.1102	(4.5441)	0.076	5.1102
9	9 1,2,3,7,8-PeCDF	6.06e4	2.37e6	1.521	NO	10.04	29.53	29.52	1.00	1.00	NO	5.6306		0.061	5.6306
10	10 2,3,4,7,8-PeCDF	3.42e4	2.28e6	1.617	NO	10.04	30.53	30.53	1.00	1.00	NO	3.1425		0.055	3.1425
11	11 1,2,3,4,7,8-HxCDF	7.16e4	1.71e6	1.222	NO	10.04	33.34	33.35	1.00	1.00	NO	9.6859		0.090	9.6859
12	12 1,2,3,6,7,8-HxCDF	2.59e4	1.87e6	1.147	NO	10.04	33.47	33.47	1.00	1.00	NO	3.2704		0.088	3.2704
13	13 2,3,4,6,7,8-HxCDF	6.51e3	1.72e6	1.212	NO	10.04	34.06	34.04	1.00	1.00	NO	0.84110		0.096	0.84110
14	14 1,2,3,7,8,9-HxCDF	2.43e3	1.47e6	1.185	NO	10.04	34.91	34.95	1.00	1.00	NO	0.38357		0.131	0.38357
15	15 1,2,3,4,6,7,8-HpCDF	4.66e4	1.26e6	0.981	NO	10.04	36.69	36.67	1.00	1.00	NO	8.6464		0.203	8.6464
16	16 1,2,3,4,7,8,9-HpCDF	9.43e3	9.23e5	0.984	NO	10.04	38.73	38.74	1.00	1.00	NO	2.0780		0.250	2.0780
17	17 OCDF	1.38e5	2.37e6	0.892	NO	10.04	41.36	41.37	1.00	1.00	NO	28.728		0.154	28.728
18	18 13C-2,3,7,8-TCDD	2.18e6	1.83e6	0.765	NO	10.04	25.71	25.72	1.03	1.03	NO	197.93	99.3	0.173	
19	19 13C-1,2,3,7,8-PeCDD	1.73e6	1.83e6	0.628	NO	10.04	30.84	30.82	1.23	1.23	NO	195.50	98.1	0.251	
20	20 13C-1,2,3,4,7,8-HxCDD	1.25e6	1.66e6	1.260	NO	10.04	34.19	34.19	1.01	1.01	NO	171.26	85.9	0.468	
21	21 13C-1,2,3,6,7,8-HxCDD	1.61e6	1.66e6	1.269	NO	10.04	34.29	34.30	1.02	1.02	NO	184.68	92.7	0.391	
22	22 13C-1,2,3,7,8,9-HxCDD	1.43e6	1.66e6	1.228	NO	10.04	34.60	34.57	1.03	1.03	NO	175.82	88.2	0.420	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.17e6	1.66e6	1.049	NO	10.04	38.17	38.08	1.13	1.13	NO	187.90	94.3	0.494	
24	24 13C-OCDD	2.13e6	1.66e6	0.881	NO	10.04	41.07	41.18	1.22	1.22	NO	360.91	90.6	0.437	
25	25 13C-2,3,7,8-TCDF	2.66e6	2.57e6	0.776	NO	10.04	24.89	24.79	0.99	0.99	NO	193.41	97.1	0.253	
26	26 13C-1,2,3,7,8-PeCDF	2.37e6	2.57e6	1.556	NO	10.04	29.47	29.51	1.18	1.18	NO	183.16	91.9	0.400	
27	27 13C-2,3,4,7,8-PeCDF	2.28e6	2.57e6	1.569	NO	10.04	30.44	30.50	1.21	1.22	NO	184.05	92.4	0.416	
28	28 13C-1,2,3,4,7,8-HxCDF	1.71e6	1.66e6	0.527	NO	10.04	33.32	33.34	0.99	0.99	NO	195.25	98.0	0.570	
29	29 13C-1,2,3,6,7,8-HxCDF	1.87e6	1.66e6	0.518	NO	10.04	33.42	33.46	0.99	0.99	NO	188.94	94.8	0.503	
30	30 13C-2,3,4,6,7,8-HxCDF	1.72e6	1.66e6	0.500	NO	10.04	34.03	34.03	1.01	1.01	NO	193.17	96.9	0.561	
31	31 13C-1,2,3,7,8,9-HxCDF	1.47e6	1.66e6	0.494	NO	10.04	34.93	34.91	1.04	1.04	NO	191.54	96.1	0.649	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.26e6	1.66e6	0.442	NO	10.04	36.69	36.65	1.09	1.09	NO	197.11	98.9	0.521	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-9.qld

Last Altered: Wednesday, March 18, 2020 11:28:08 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 11:37:11 Pacific Daylight Time

Name: 200229R1_9, Date: 29-Feb-2020, Time: 17:33:52, ID: 1903737-05RE1 PDI-052SC-B-00-02-191015 19.04, Description: PDI-052SC-B-00-02-191015

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HpCDF	9.23e5	1.66e6	0.447	NO	10.04	38.71	38.73	1.15	1.15	NO	200.35	100.5	0.724	
34	34 13C-OCDF	2.37e6	1.66e6	0.926	NO	10.04	41.31	41.36	1.23	1.23	NO	360.57	90.5	0.380	
35	35 37Cl-2,3,7,8-TCDD	7.83e5	1.83e6			10.04	25.74	25.75	1.03	1.03	NO	72.578	91.1	0.046	
36	36 13C-1,2,3,4-TCDD	1.83e6	1.83e6	0.782	NO	10.04	25.11	25.06	1.00	1.00	NO	199.26	100.0	0.207	
37	37 13C-1,2,3,4-TCDF	2.57e6	2.57e6	0.792	NO	10.04	23.37	23.28	1.00	1.00	NO	199.26	100.0	0.270	
38	38 13C-1,2,3,4,6,9-HxCDF	1.66e6	1.66e6	0.519	NO	10.04	33.71	33.72	1.00	1.00	NO	199.26	100.0	0.598	
39	39 Total Tetra-Dioxins		2.18e6			10.04	24.62		0.00		NO	0.29753		0.054	0.53838
40	40 Total Penta-Dioxins		1.73e6			10.04	29.96		0.00		NO	0.67645		0.034	1.2889
41	41 Total Hexa-Dioxins		0.00e0			10.04	33.63		0.00		NO	15.481		0.152	16.183
42	42 Total Hepta-Dioxins		1.17e6			10.04	37.64		0.00		NO	141.84		0.495	141.84
43	43 Total Tetra-Furans		2.66e6			10.04	23.61		0.00		NO	14.811		0.076	16.479
44	44 1st Func. Penta-Furans		0.00e0			10.04	27.09		0.00		NO	2.4540		0.024	2.4540
45	45 Total Penta-Furans		0.00e0			10.04	29.27		0.00		NO	15.974		0.059	16.127
46	46 Total Hexa-Furans		0.00e0			10.04	33.56		0.00		NO	22.883		0.096	22.992
47	47 Total Hepta-Furans		0.00e0			10.04	37.83		0.00		NO	27.090		0.239	27.090

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-9.qld

Last Altered: Wednesday, March 18, 2020 11:28:08 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 11:37:11 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R1_9, Date: 29-Feb-2020, Time: 17:33:52

Tetra-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	1 2,3,7,8-TCDD	25.76	0.287	YES	3.71e2	9.43e5	0.000	0.0791
2	39 Total Tetra-Dioxins	25.48	0.890	YES	8.77e2	9.43e5	0.000	0.162
3	39 Total Tetra-Dioxins	21.59	0.719	NO	1.34e3	9.43e5	0.298	0.298

Penta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	2 1,2,3,7,8-PeCDD	30.83	0.656	NO	3.76e2	6.69e5	0.112	0.112
2	40 Total Penta-Dioxins	30.04	0.492	YES	5.98e2	6.69e5	0.000	0.183
3	40 Total Penta-Dioxins	29.83	0.711	NO	3.44e2	6.69e5	0.0979	0.0979
4	40 Total Penta-Dioxins	29.75	0.386	YES	3.85e2	6.69e5	0.000	0.118
5	40 Total Penta-Dioxins	29.58	0.798	YES	9.12e2	6.69e5	0.000	0.220
6	40 Total Penta-Dioxins	29.08	0.812	YES	3.88e2	6.69e5	0.000	0.0921
7	40 Total Penta-Dioxins	28.58	0.628	NO	1.52e3	6.69e5	0.466	0.466

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	4 1,2,3,6,7,8-HxCDD	34.31	1.208	NO	5.20e3	9.01e5	1.28	1.28
2	3 1,2,3,4,7,8-HxCDD	34.20	1.091	NO	7.58e2	6.96e5	0.217	0.217
3	41 Total Hexa-Dioxins	33.65	1.593	YES	3.30e3	7.95e5	0.000	0.702
4	41 Total Hexa-Dioxins	33.55	1.223	NO	2.15e4	7.95e5	5.91	5.91
5	41 Total Hexa-Dioxins	33.28	1.296	NO	2.96e3	7.95e5	0.795	0.795
6	41 Total Hexa-Dioxins	32.74	1.245	NO	2.38e4	7.95e5	6.51	6.51
7	5 1,2,3,7,8,9-HxCDD	34.58	1.095	NO	1.43e3	7.87e5	0.416	0.416
8	41 Total Hexa-Dioxins	34.50	1.104	NO	1.25e3	7.95e5	0.362	0.362

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-9.qld

Last Altered: Wednesday, March 18, 2020 11:28:08 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 11:37:11 Pacific Daylight Time

Name: 200229R1_9, Date: 29-Feb-2020, Time: 17:33:52

Hepta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.09	1.046	NO	1.60e5	5.99e5	57.8	57.8
2	42 Total Hepta-Dioxins	37.04	1.019	NO	2.30e5	5.99e5	84.0	84.0

Tetra-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	8 2,3,7,8-TCDF	24.81	0.748	NO	2.34e4	1.16e6	5.11	5.11
2	43 Total Tetra-Furans	24.70	0.711	NO	3.30e3	1.16e6	0.743	0.743
3	43 Total Tetra-Furans	24.13	0.828	NO	9.61e2	1.16e6	0.199	0.199
4	43 Total Tetra-Furans	23.83	0.757	NO	2.12e4	1.16e6	4.61	4.61
5	43 Total Tetra-Furans	23.28	0.895	YES	5.42e3	1.16e6	0.000	1.00
6	43 Total Tetra-Furans	23.19	0.974	YES	2.03e3	1.16e6	0.000	0.346
7	43 Total Tetra-Furans	22.40	0.726	NO	1.53e3	1.16e6	0.340	0.340
8	43 Total Tetra-Furans	22.04	0.677	NO	2.56e3	1.16e6	0.593	0.593
9	43 Total Tetra-Furans	21.56	0.728	NO	6.86e3	1.16e6	1.52	1.52
10	43 Total Tetra-Furans	21.19	0.863	NO	1.69e3	1.16e6	0.341	0.341
11	43 Total Tetra-Furans	20.65	0.741	NO	3.81e3	1.16e6	0.837	0.837
12	43 Total Tetra-Furans	26.89	0.879	NO	2.57e3	1.16e6	0.513	0.513
13	43 Total Tetra-Furans	25.20	0.636	YES	1.49e3	1.16e6	0.000	0.320

Penta-Furans function 1

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.90	1.502	NO	1.56e4	1.42e6	2.45	2.45

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Name: 200229R1_9, Date: 29-Feb-2020, Time: 17:33:52

Penta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	9 1,2,3,7,8-PeCDF	29.52	1.521	NO	3.66e4	1.44e6	5.63	5.63
2	45 Total Penta-Furans	29.34	1.384	NO	4.21e3	1.42e6	0.685	0.685
3	45 Total Penta-Furans	29.13	1.460	NO	4.27e3	1.42e6	0.680	0.680
4	45 Total Penta-Furans	28.52	1.494	NO	2.29e4	1.42e6	3.61	3.61
5	45 Total Penta-Furans	28.38	1.468	NO	1.07e3	1.42e6	0.169	0.169
6	45 Total Penta-Furans	31.46	1.090	YES	9.82e2	1.42e6	0.000	0.153
7	10 2,3,4,7,8-PeCDF	30.53	1.617	NO	2.12e4	1.39e6	3.14	3.14
8	45 Total Penta-Furans	30.42	1.628	NO	4.16e2	1.42e6	0.0635	0.0635
9	45 Total Penta-Furans	29.80	1.504	NO	1.27e4	1.42e6	2.00	2.00

Hexa-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	34.95	1.185	NO	1.32e3	4.87e5	0.384	0.384
2	13 2,3,4,6,7,8-HxCDF	34.04	1.212	NO	3.57e3	5.73e5	0.841	0.841
3	12 1,2,3,6,7,8-HxCDF	33.47	1.147	NO	1.38e4	6.40e5	3.27	3.27
4	11 1,2,3,4,7,8-HxCDF	33.35	1.222	NO	3.94e4	5.90e5	9.69	9.69
5	46 Total Hexa-Furans	33.24	1.541	YES	5.73e2	5.72e5	0.000	0.109
6	46 Total Hexa-Furans	32.89	1.242	NO	1.80e4	5.72e5	4.26	4.26
7	46 Total Hexa-Furans	32.70	1.316	NO	2.81e2	5.72e5	0.0649	0.0649
8	46 Total Hexa-Furans	32.36	1.232	NO	1.18e4	5.72e5	2.79	2.79
9	46 Total Hexa-Furans	32.19	1.092	NO	3.24e3	5.72e5	0.814	0.814
10	46 Total Hexa-Furans	34.97	1.331	NO	3.35e3	5.72e5	0.768	0.768

Hepta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	47 Total Hepta-Furans	37.26	1.033	NO	3.83e4	3.36e5	16.2	16.2
2	47 Total Hepta-Furans	37.06	0.887	NO	4.04e2	3.36e5	0.184	0.184
3	15 1,2,3,4,6,7,8-HpCDF	36.67	0.981	NO	2.31e4	3.87e5	8.65	8.65
4	16 1,2,3,4,7,8,9-HpCDF	38.74	0.984	NO	4.68e3	2.85e5	2.08	2.08

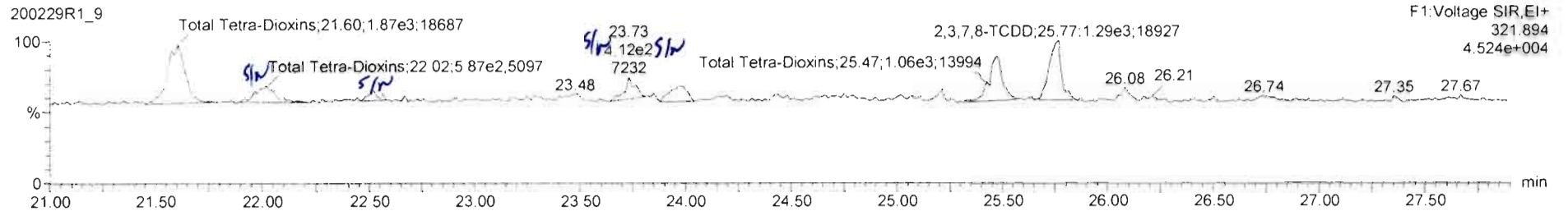
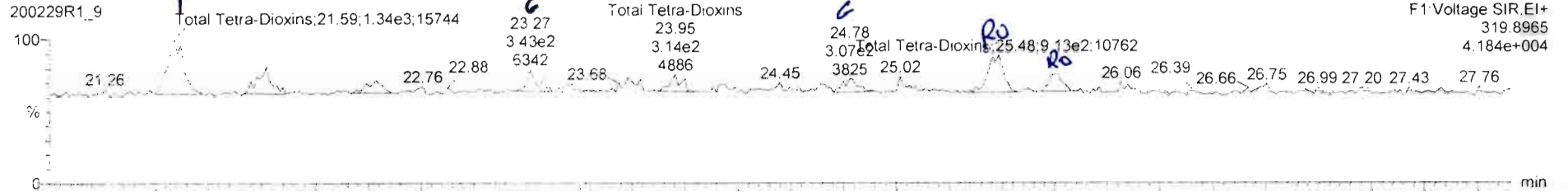
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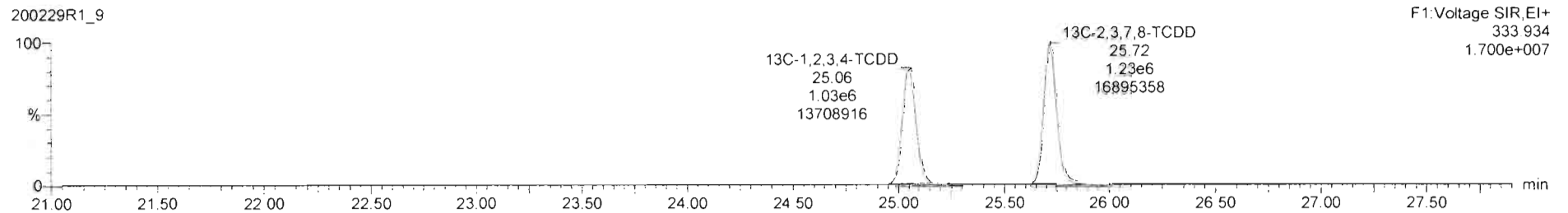
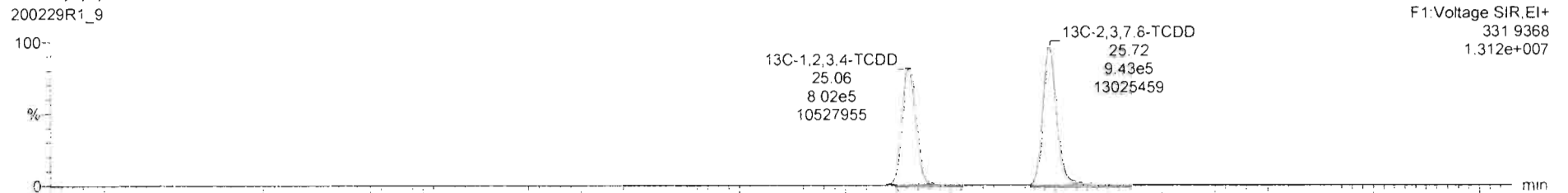
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2,3,7,8-TCDD



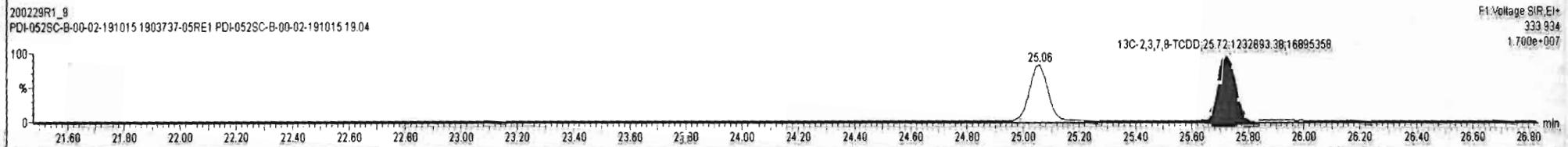
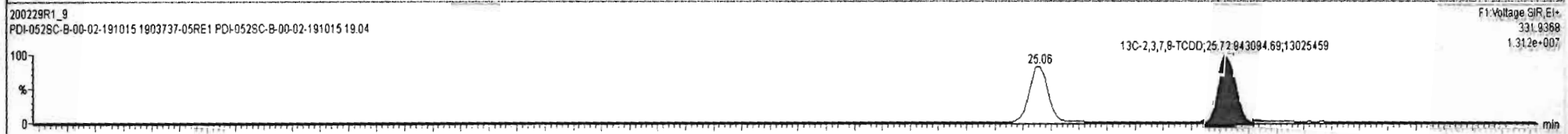
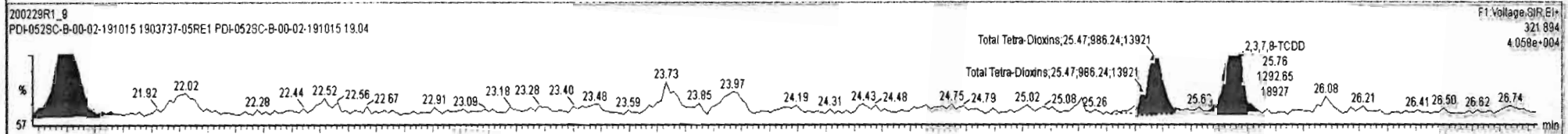
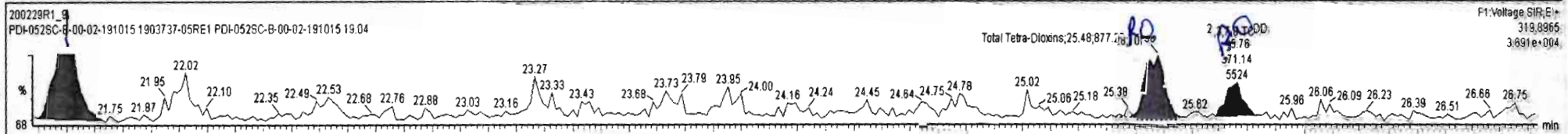
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200229R1_9-1903737-05RE1 PDI-052SC-B-00-02-191015 19.04 PDI-052SC-B-00-02-191015

#	Name	Resp	RA	nly	RPF	wt/wt	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.037	24.62		0.000		NO	0.2975		0.0539	0.5304
40	Total Penta-Dioxins				0.9723	10.037	29.96		0.000		NO	0.9424		0.0337	1.414
41	Total Hexa-Dioxins				0.9211	10.037	33.63		0.000		NO	15.09		0.152	16.15
42	Total Hepta-Dioxins				0.9231	10.037	37.64		0.000		NO	141.8		0.485	141.8
43	Total Tetra-Furans				0.9020	10.037	23.61		0.000		NO	15.69		0.0764	16.83
44	1st Func. Penta-Furans				0.9074	10.037	27.09		0.000		NO	2.454		0.0240	2.454
45	Total Penta-Furans				0.9074	10.037	29.27		0.000		NO	15.91		0.0585	16.13
46	Total Hexa-Furans				0.8962	10.037	33.56		0.000		NO	23.02		0.0956	23.02
47	Total Hepta-Furans				0.8511	10.037	37.83		0.000		NO	27.09		0.239	27.09

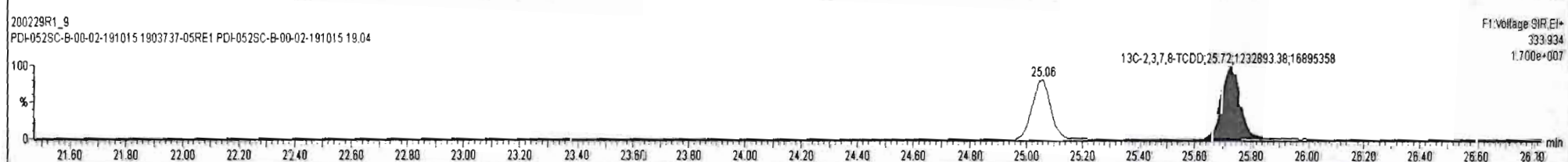
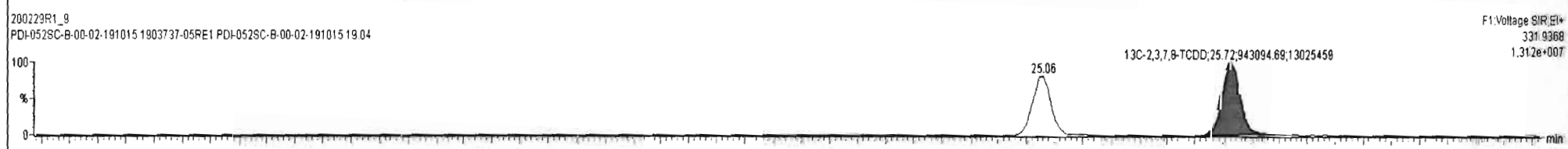
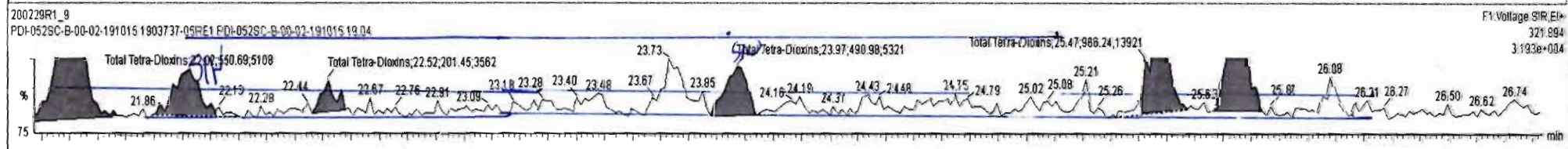
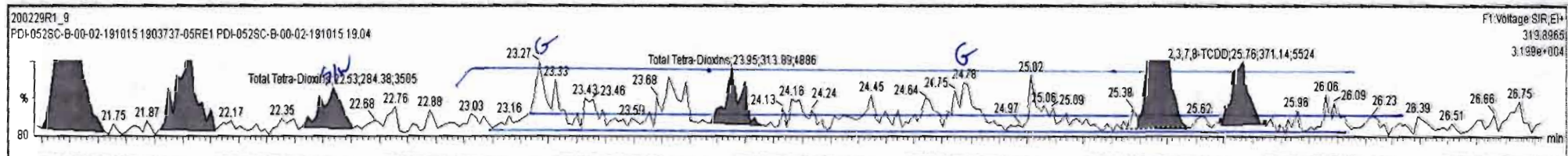
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1	39 Total Tetra-Dioxins	24.62	21.59	1.343e3	1.888e3	0.770	0.72	NO	0.29753	0.29753
2	39 Total Tetra-Dioxins	24.62	25.48	8.773e2	9.862e2	0.770	0.89	YES	0.16179	0.00000
3	1 2,3,7,8-TCDD	25.75	25.76	3.711e2	1.293e3	0.770	0.28	YES	0.079070	0.00000



200229R1_9 - 1903737-05RE1 PDI-0525C-B-00-02-191015 19.04 - PDI-0525C-B-00-02-191015

#	Name	Resp	RA	n/y	RRF	wt/Std	Pred.RT	RT	Fred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9081	10.037	24.52		0.000		NO	0.2975		0.0539	0.7286
40	Total Penta-Dioxins				0.9723	10.037	29.96		0.000		NO	0.9424		0.0337	1.414
41	Total Hexa-Dioxins				0.9211	10.037	33.83		0.000		NO	15.09		0.152	16.15
42	Total Hepta-Dioxins				0.9231	10.037	37.64		0.000		NO	141.8		0.485	141.8
43	Total Tetra-Furans				0.8020	10.037	23.61		0.000		NO	15.69		0.0764	16.83
44	1st Func. Penta-Furans				0.9074	10.037	27.09		0.000		NO	2.454		0.0240	2.454
45	Total Penta-Furans				0.9074	10.037	29.27		0.000		NO	15.91		0.0585	16.13
46	Total Hexa-Furans				0.8982	10.037	33.56		0.000		NO	23.02		0.0956	23.02
47	Total Hepta-Furans				0.8511	10.037	37.83		0.000		NO	27.09		0.239	27.09

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.52	21.58	1.343e3	1.868e3	0.770	0.72	NO	0.29753	0.29753
2	39 Total Tetra-Dioxins	24.52	22.02	5.881e2	5.507e2	0.770	1.03	YES	0.090337	0.00000
3	39 Total Tetra-Dioxins	24.52	22.53	2.844e2	2.014e2	0.770	1.41	YES	0.033046	0.00000
4	39 Total Tetra-Dioxins	24.52	23.95	3.139e2	4.910e2	0.770	0.64	YES	0.066871	0.00000
5	39 Total Tetra-Dioxins	24.52	25.48	8.773e2	9.862e2	0.770	0.89	YES	0.16179	0.00000
6	1 2,3,7,8-TCDD	25.75	25.76	3.711e2	1.293e3	0.770	0.29	YES	0.079070	0.00000



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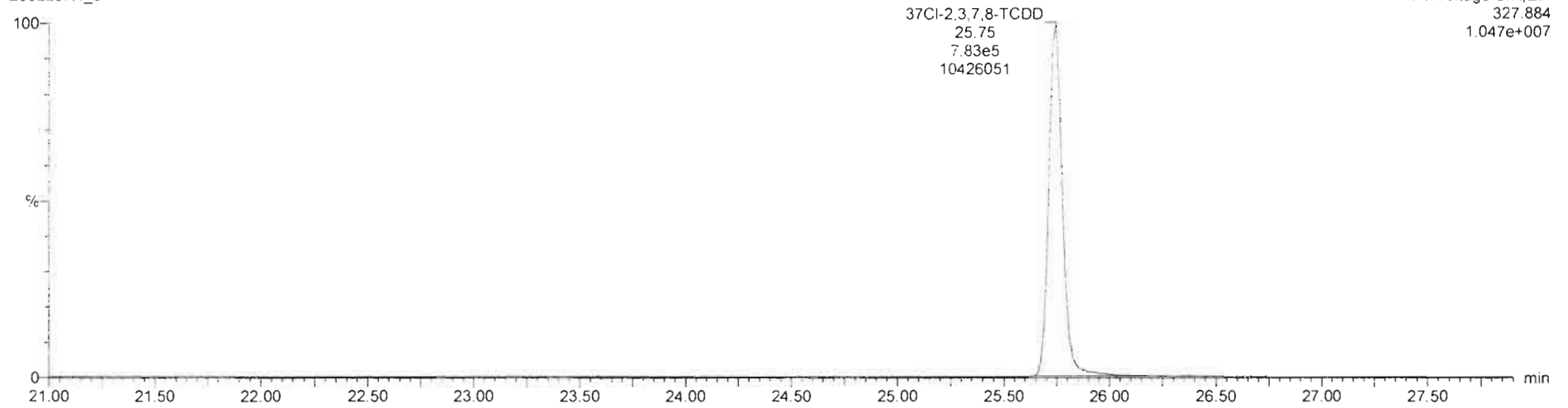
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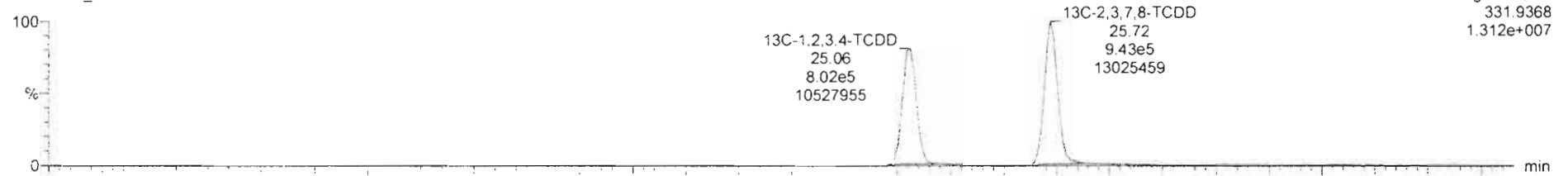
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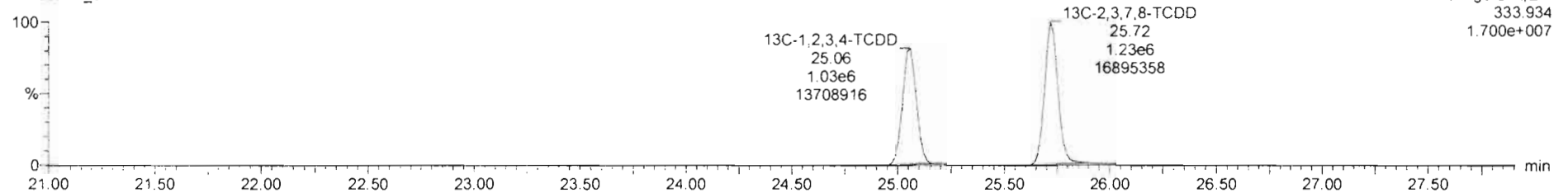


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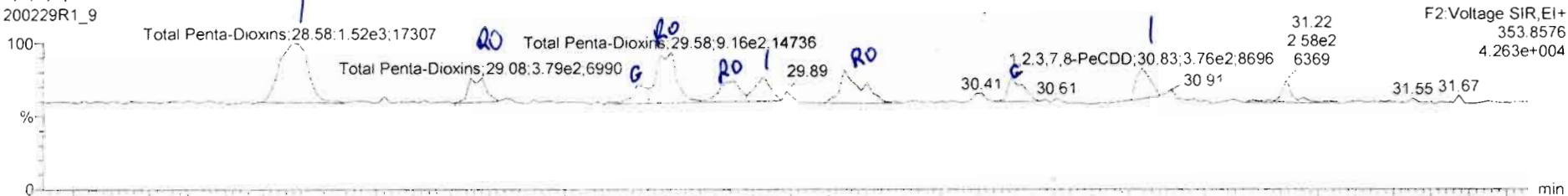
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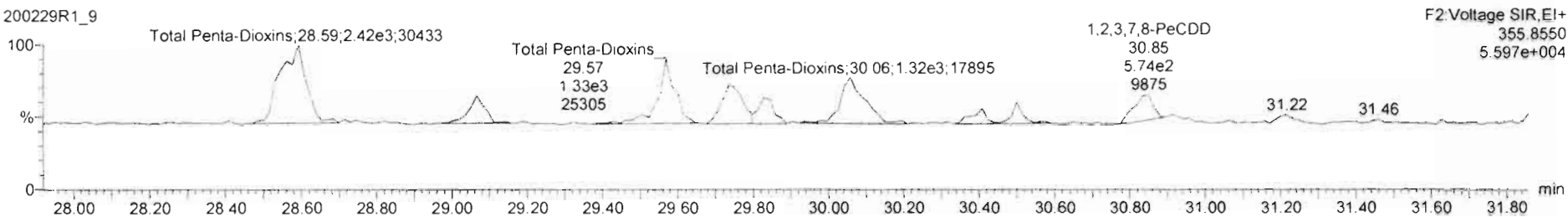
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1,2,3,7,8-PeCDD

200229R1_9



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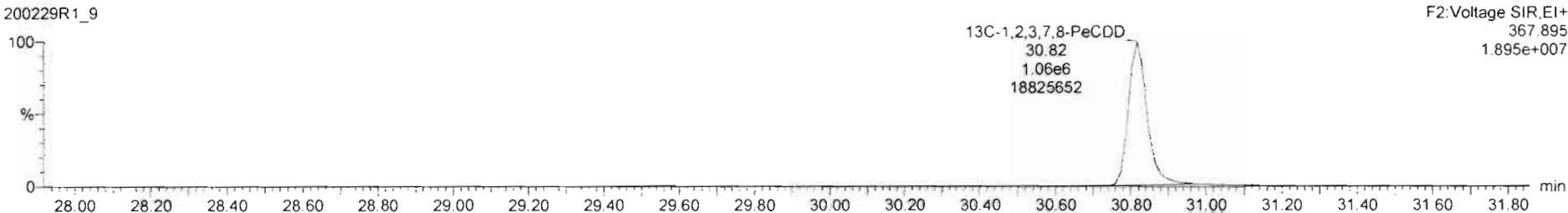


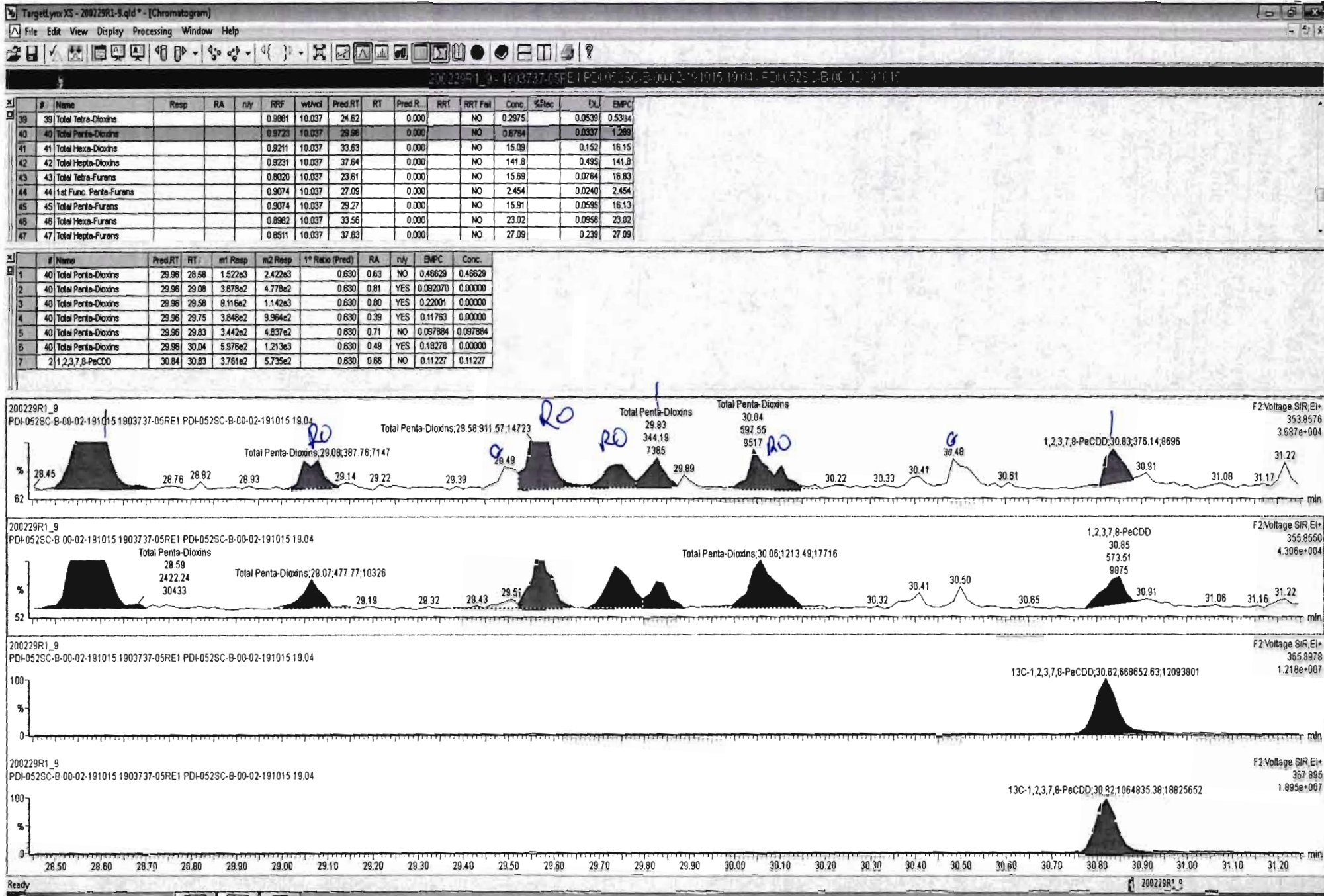
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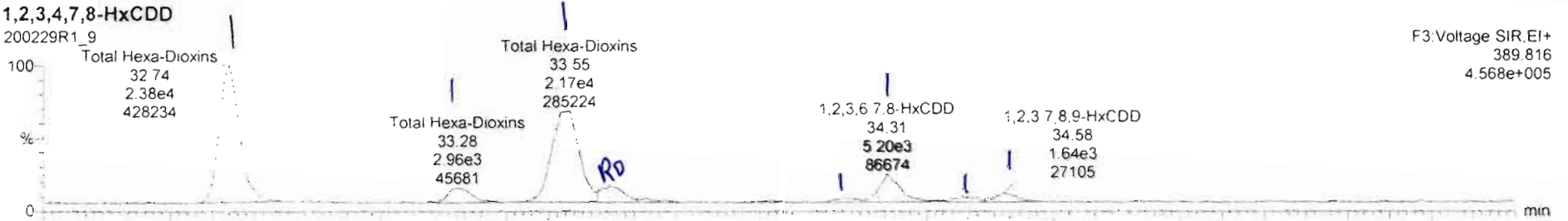
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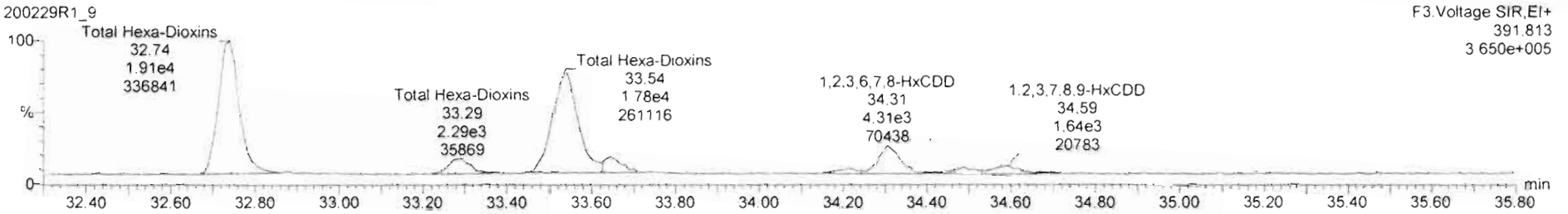
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1,2,3,4,7,8-HxCDD

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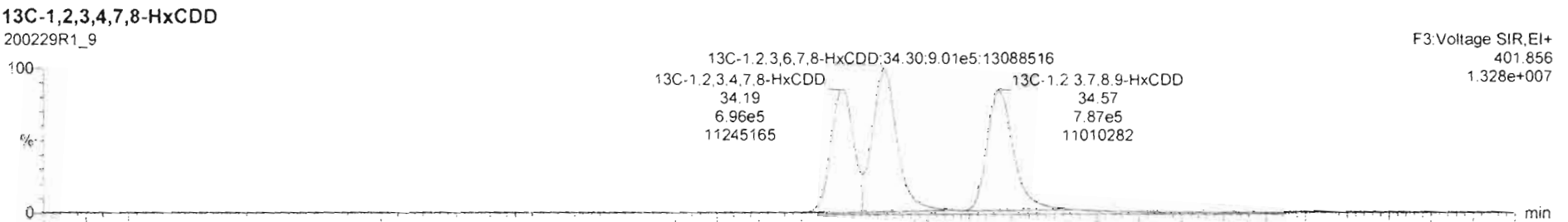


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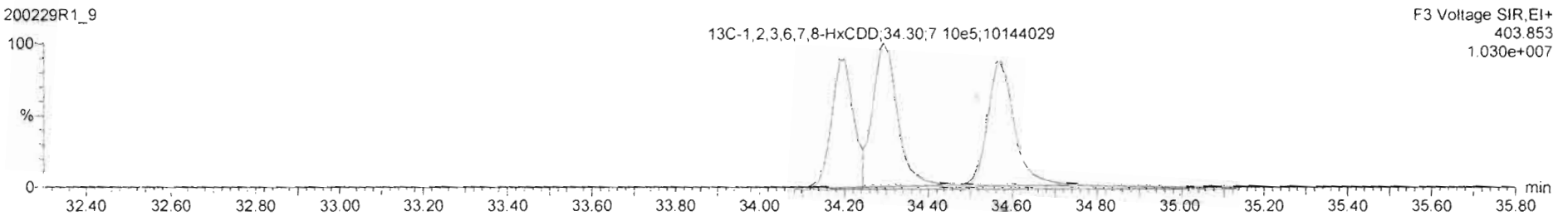


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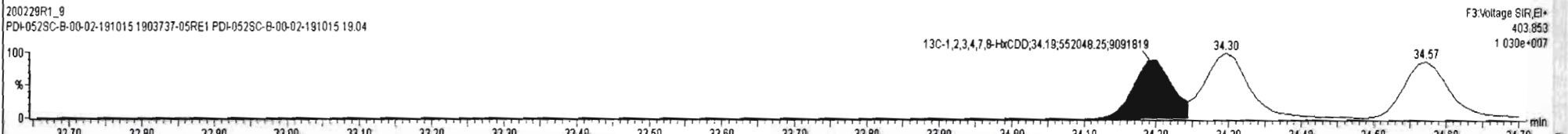
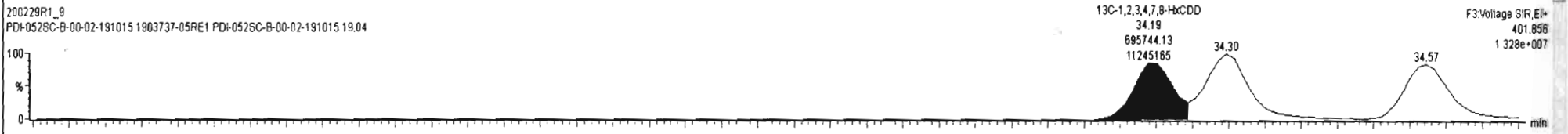
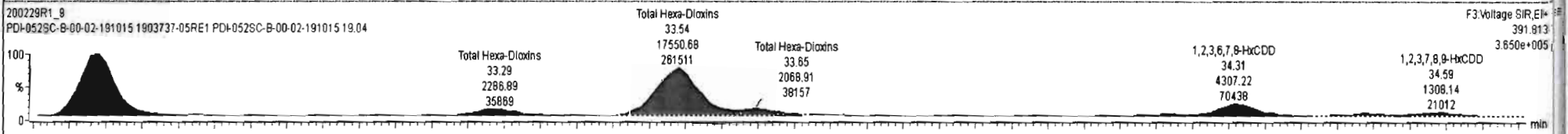
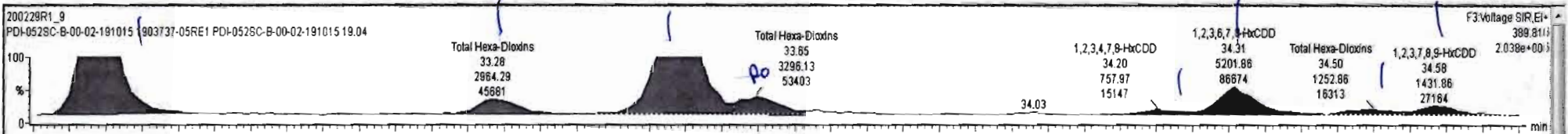
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200229R1_9 - 1903737-05RE1 PDI-0525C-B-00-02-191015 19:04 - PDI-0525C-B-00-02-191015

#	Name	Resp	RA	n/y	RRF	wtAveI	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.037	24.62		0.000		NO	0.2975	0.0539	0.5384	
40	Total Penta-Dioxins				0.9723	10.037	29.96		0.000		NO	0.6764	0.0337	1.269	
41	Total Hexa-Dioxins				0.9211	10.037	33.63		0.000		NO	15.48	0.192	16.18	
42	Total Hepta-Dioxins				0.9231	10.037	37.64		0.000		NO	141.8	0.495	141.8	
43	Total Tetra-Furans				0.8020	10.037	23.61		0.000		NO	15.69	0.0764	16.83	
44	1st Func. Penta-Furans				0.9074	10.037	27.09		0.000		NO	2.454	0.0240	2.454	
45	Total Penta-Furans				0.9074	10.037	29.27		0.000		NO	15.91	0.0595	16.13	
46	Total Hexa-Furans				0.8962	10.037	33.56		0.000		NO	23.02	0.0956	23.02	
47	Total Hepta-Furans				0.8511	10.037	37.63		0.000		NO	27.09	0.239	27.09	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.74	2.363e4	1.915e4	1.240	1.24	NO	6.5077	6.5077
2	41 Total Hexa-Dioxins	33.63	33.28	2.964e3	2.267e3	1.240	1.30	NO	0.79508	0.79508
3	41 Total Hexa-Dioxins	33.63	33.55	2.146e4	1.755e4	1.240	1.22	NO	5.9067	5.9067
4	41 Total Hexa-Dioxins	33.63	33.65	3.296e3	2.069e3	1.240	1.59	YES	0.70169	0.00000
5	3 1,2,3,4,7,8-HxCDD	34.20	34.20	7.580e2	6.945e2	1.240	1.09	NO	0.21662	0.21662
6	4 1,2,3,6,7,8-HxCDD	34.30	34.31	5.202e3	4.307e3	1.240	1.21	NO	1.2775	1.2775
7	41 Total Hexa-Dioxins	33.63	34.50	1.253e3	1.135e3	1.240	1.10	NO	0.36151	0.36151
8	5 1,2,3,7,8-HxCDD	34.61	34.58	1.432e3	1.308e3	1.240	1.09	NO	0.41633	0.41633



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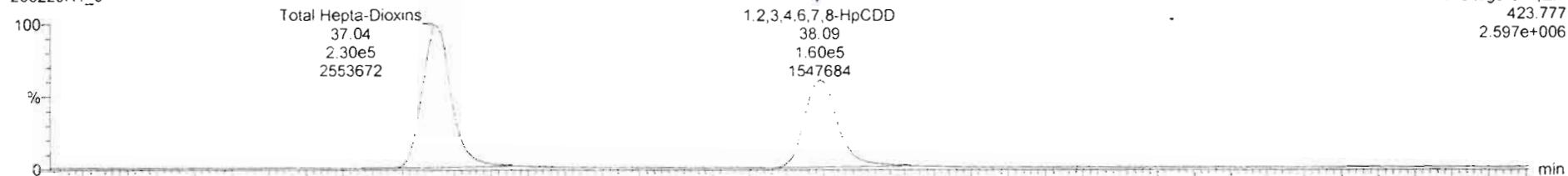
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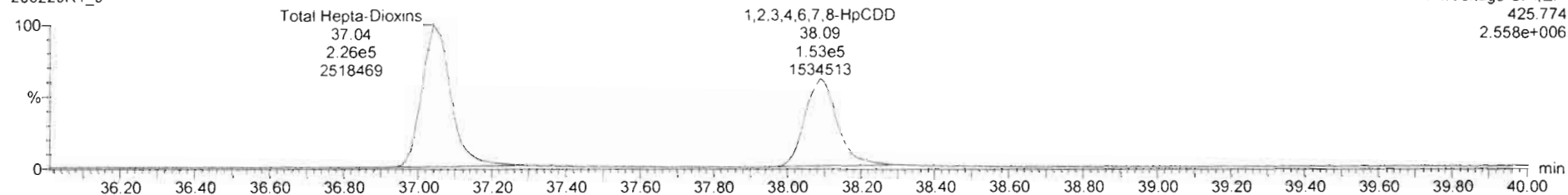
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1,2,3,4,6,7,8-HpCDD

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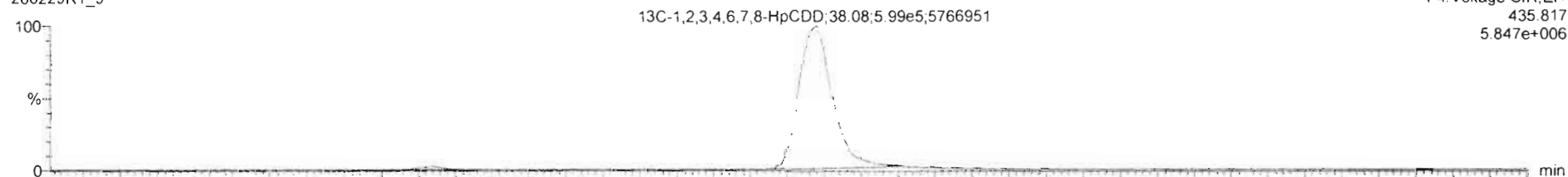


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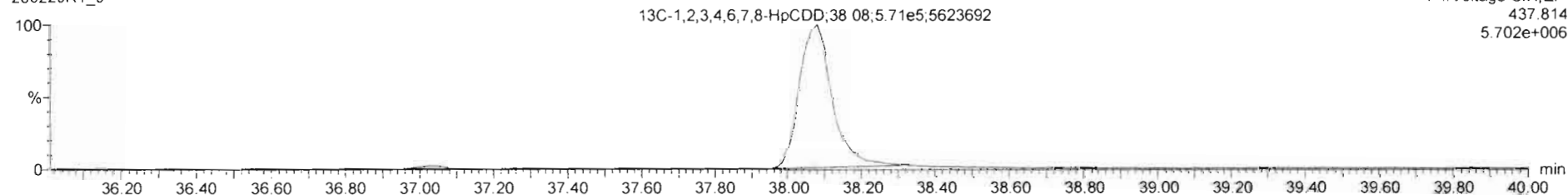


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200229R1_9



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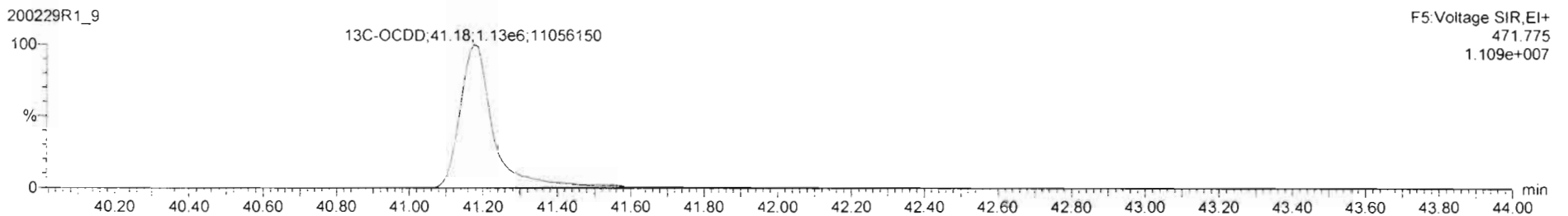
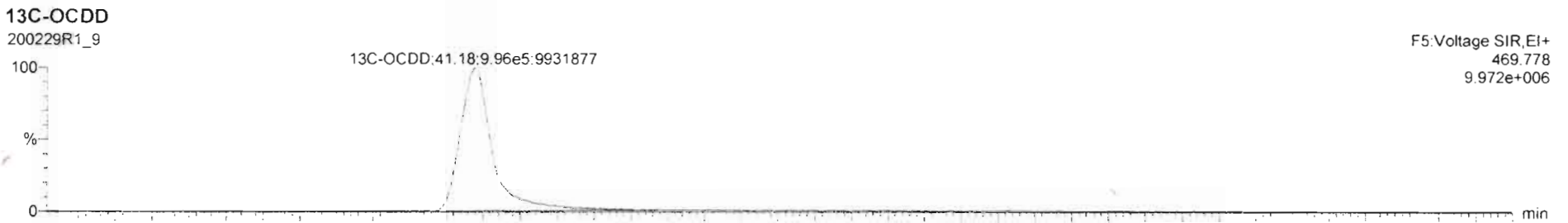
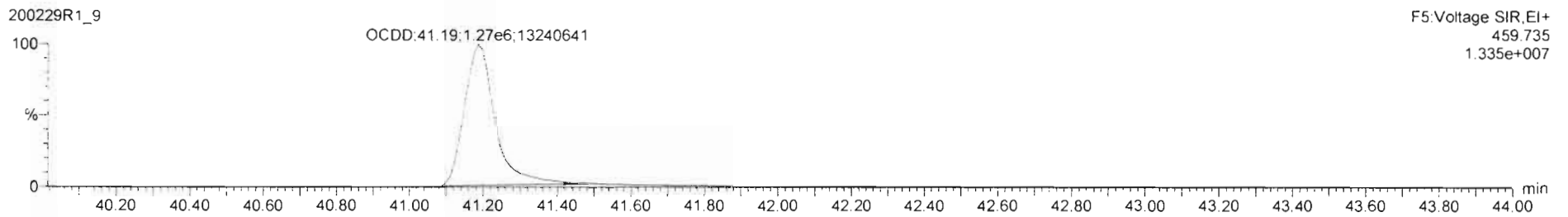
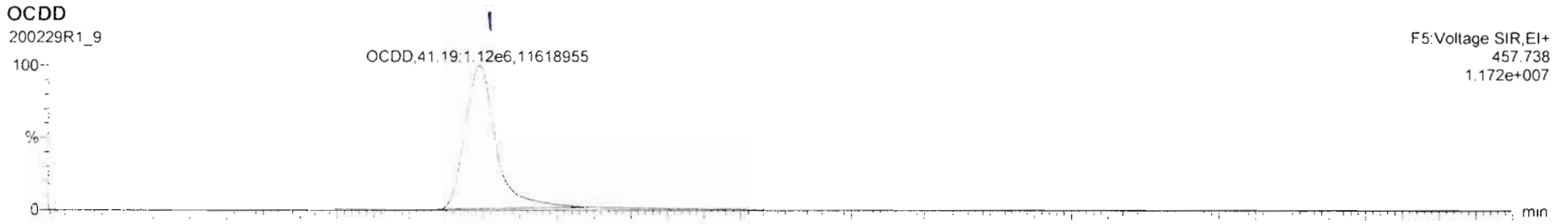


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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_9, Date: 29-Feb-2020, Time: 17:33:52, ID: 1903737-05RE1 PDI-052SC-B-00-02-191015 19.04, Description: PDI-052SC-B-00-02-191015



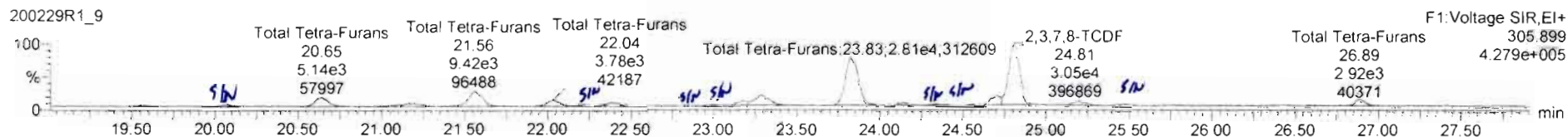
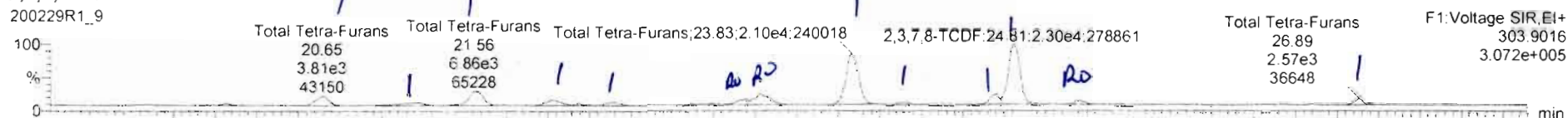
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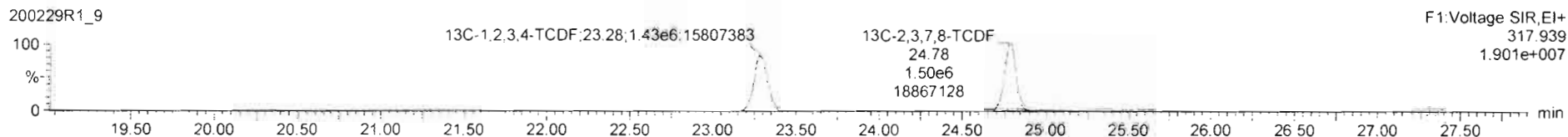
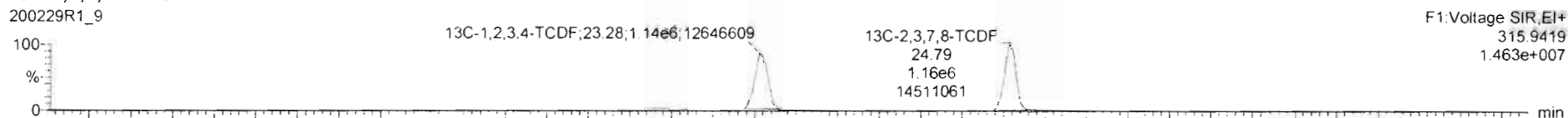
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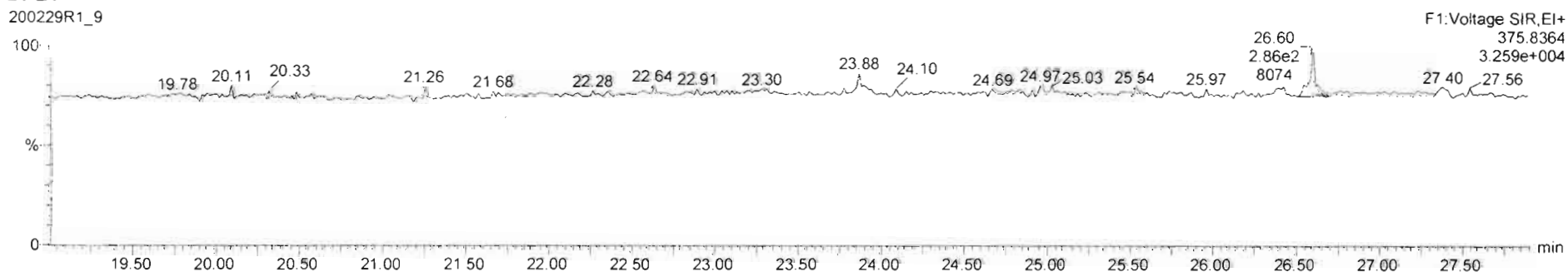
2,3,7,8-TCDF



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



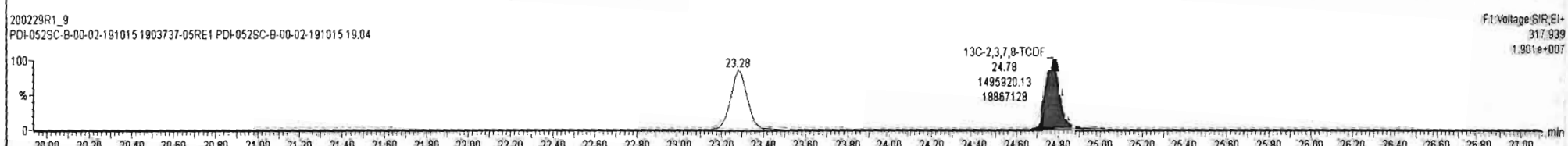
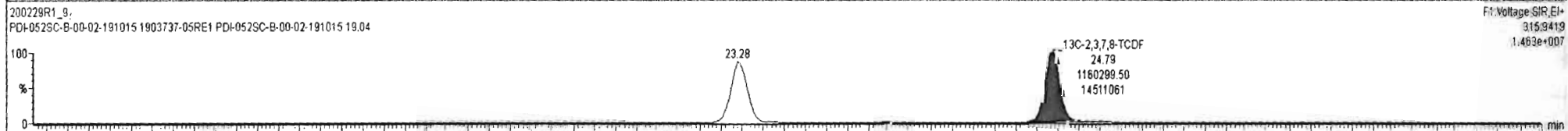
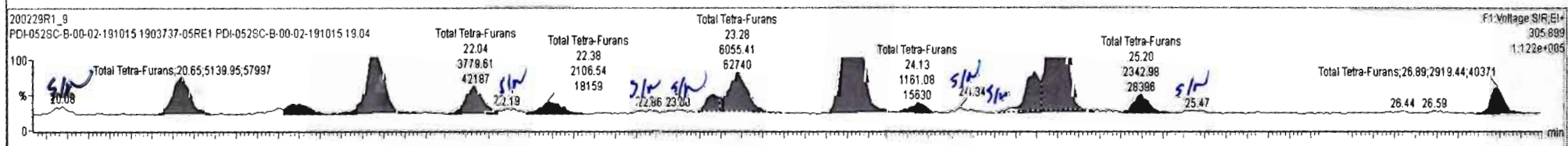
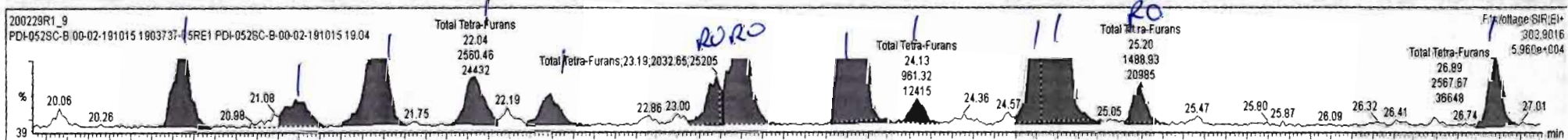
DPE1



200229R1_9 - 1903737-05RE1 PDI-052SC-B-00-02-191015 19.04 - PDI-052SC-B-00-02-191015

#	Name	Resp	RA	n/y	RRF	wtMol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9231	10.037	37.54		0.000		NO	141.8	0.495	141.8	
43	Total Tetra-Furans				0.9020	10.037	23.61		0.000		NO	14.81	0.0784	16.48	
44	Total Furans				0.9074	10.037	27.04		0.000		NO	7.454	0.0740	7.454	

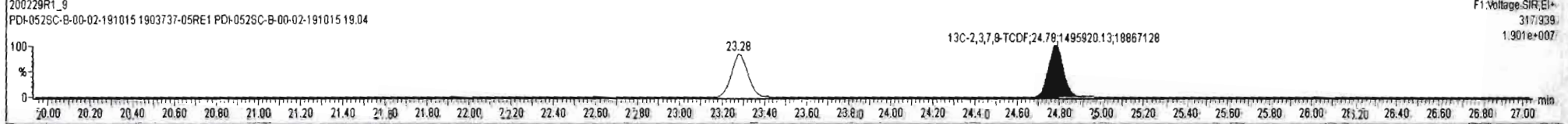
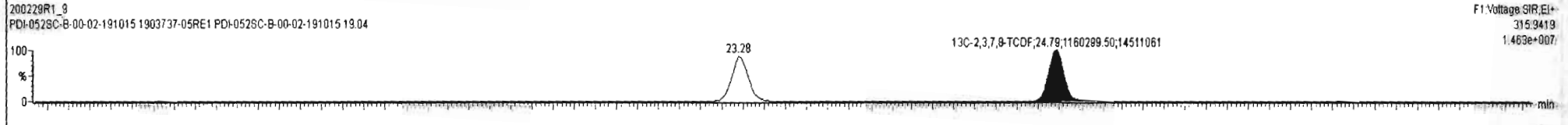
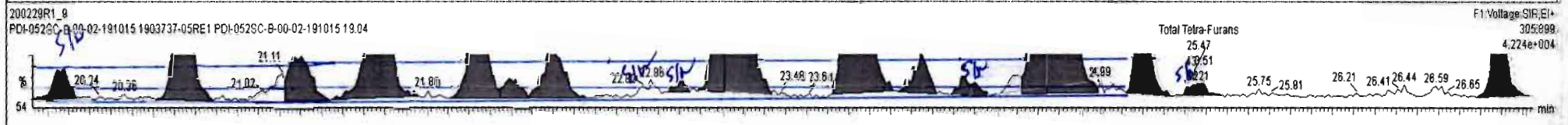
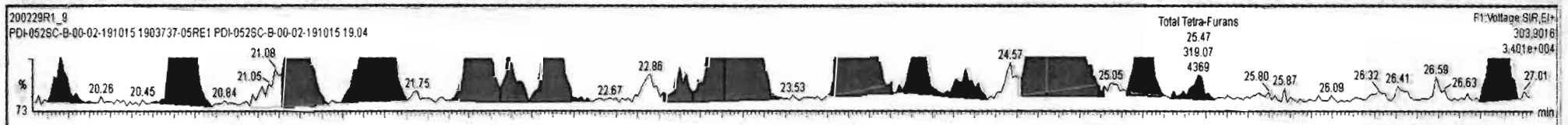
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	20.65	3.810e3	5.140e3	0.770	0.74	NO	0.83722	0.83722
2	Total Tetra-Furans	23.61	21.19	1.690e3	1.958e3	0.770	0.86	NO	0.34124	0.34124
3	Total Tetra-Furans	23.61	21.56	6.865e3	9.425e3	0.770	0.73	NO	1.5237	1.5237
4	Total Tetra-Furans	23.61	22.04	2.560e3	3.780e3	0.770	0.68	NO	0.59306	0.59306
5	Total Tetra-Furans	23.61	22.40	1.530e3	2.107e3	0.770	0.73	NO	0.34015	0.34015
6	Total Tetra-Furans	23.61	23.19	2.033e3	2.087e3	0.770	0.97	YES	0.34557	0.00000
7	Total Tetra-Furans	23.61	23.28	5.418e3	6.055e3	0.770	0.89	YES	1.0026	0.00000
8	Total Tetra-Furans	23.61	23.83	2.123e4	2.806e4	0.770	0.76	NO	4.6108	4.6108
9	Total Tetra-Furans	23.61	24.13	9.613e2	1.161e3	0.770	0.83	NO	0.19853	0.19853
10	Total Tetra-Furans	23.61	24.70	3.298e3	4.642e3	0.770	0.71	NO	0.74275	0.74275
11	2,3,7,8-TCDF	24.82	24.81	2.337e4	3.126e4	0.770	0.75	NO	5.1102	5.1102
12	Total Tetra-Furans	23.61	25.20	1.489e3	2.343e3	0.770	0.64	YES	0.32016	0.00000
13	Total Tetra-Furans	23.61	26.89	2.568e3	2.919e3	0.770	0.68	NO	0.51327	0.51327



200229R1_9 1903737-05RE1 PDI-052SC-B-00-02-191015 19.04 PDI-052SC-B-00-02-191015

#	Name	Resp	RA	n/y	RF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9231	10.037	37.64		0.000		NO	141.0		0.495	141.8
43	Total Tetra-Furans				0.8020	10.187	23.61		0.000		NO	1.589		0.0764	16.83
44	1st Fine Beets-Furans				0.0004	10.007	27.00		0.000		NO	2.450		0.0000	2.450

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	20.06	4.971e2	9.483e2	0.770	0.52	YES	0.10690	0.00000
2	Total Tetra-Furans	23.61	20.65	3.810e3	5.140e3	0.770	0.74	NO	0.83722	0.83722
3	Total Tetra-Furans	23.61	21.18	2.161e3	1.958e3	0.770	1.10	YES	0.32421	0.00000
4	Total Tetra-Furans	23.61	21.56	6.865e3	9.425e3	0.770	0.73	NO	1.5237	1.5237
5	Total Tetra-Furans	23.61	22.04	2.580e3	3.780e3	0.770	0.88	NO	0.59306	0.59306
6	Total Tetra-Furans	23.61	22.19	5.536e2	6.630e2	0.770	0.83	NO	0.11379	0.11379
7	Total Tetra-Furans	23.61	22.40	1.530e3	2.107e3	0.770	0.73	NO	0.34015	0.34015
8	Total Tetra-Furans	23.61	23.00	4.088e2	2.253e2	0.770	1.81	YES	0.037304	0.00000
9	Total Tetra-Furans	23.61	23.19	1.724e3	1.803e3	0.770	0.96	YES	0.29850	0.00000
10	Total Tetra-Furans	23.61	23.28	5.744e3	6.536e3	0.770	0.88	NO	1.1487	1.1487
11	Total Tetra-Furans	23.61	23.83	2.097e4	2.806e4	0.770	0.75	NO	4.5869	4.5869
12	Total Tetra-Furans	23.61	24.13	9.803e2	1.161e3	0.770	0.84	NO	0.20031	0.20031
13	Total Tetra-Furans	23.61	24.36	4.576e2	3.868e2	0.770	1.16	YES	0.064049	0.00000
14	Total Tetra-Furans	23.61	24.70	3.294e3	4.817e3	0.770	0.68	NO	0.75871	0.75871
15	1,3,7,8-TCDF	24.82	24.81	2.299e4	3.051e4	0.770	0.75	NO	5.0038	5.0038
16	Total Tetra-Furans	23.61	25.20	1.428e3	2.343e3	0.770	0.61	YES	0.30703	0.00000
17	Total Tetra-Furans	23.61	25.47	3.191e2	4.335e2	0.770	0.74	NO	0.070398	0.070398
18	Total Tetra-Furans	23.61	26.89	2.568e3	2.919e3	0.770	0.88	NO	0.51327	0.51327



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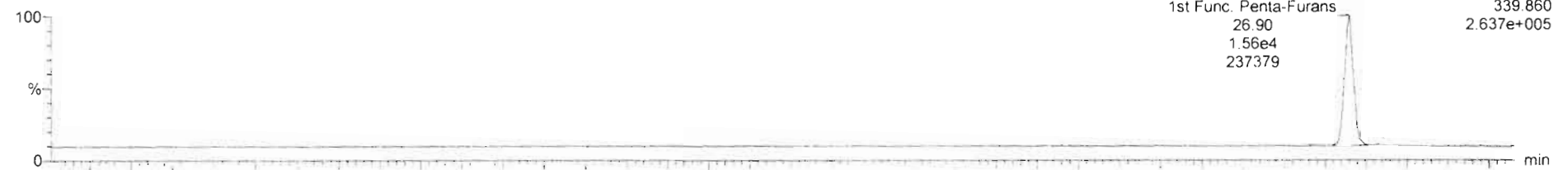
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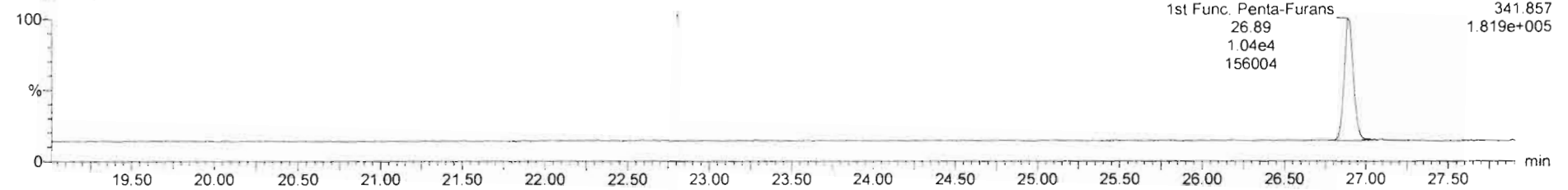
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1st Func. Penta-Furans

200229R1_9

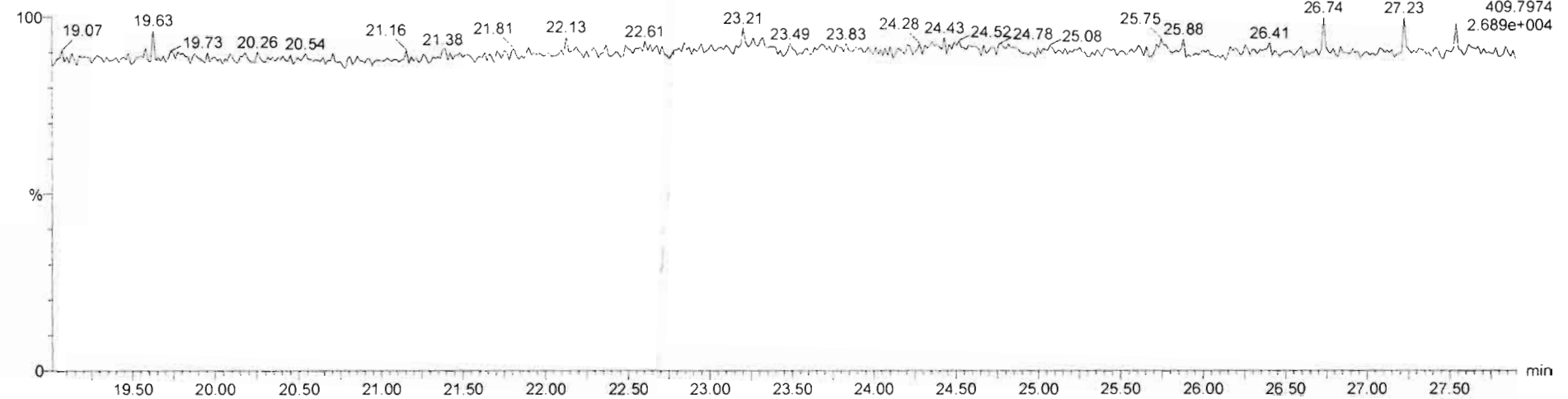


200229R1_9



DPE6

200229R1_9



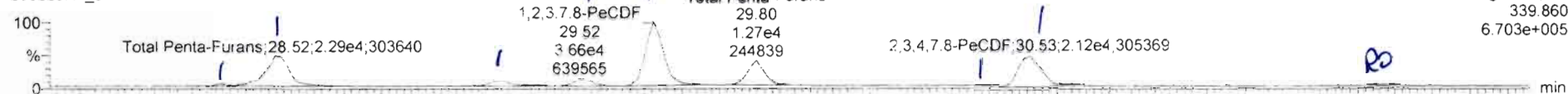
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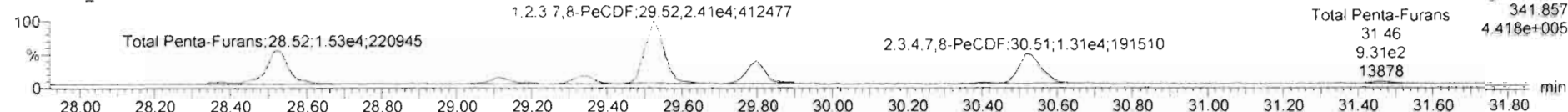
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1,2,3,7,8-PeCDF

200229R1_9

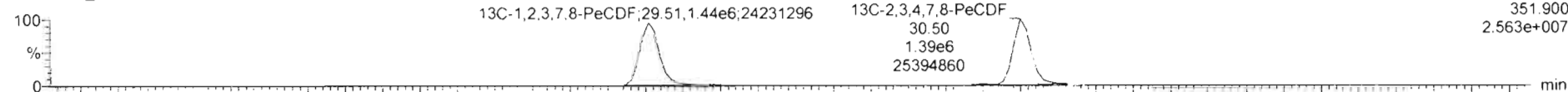


200229R1_9

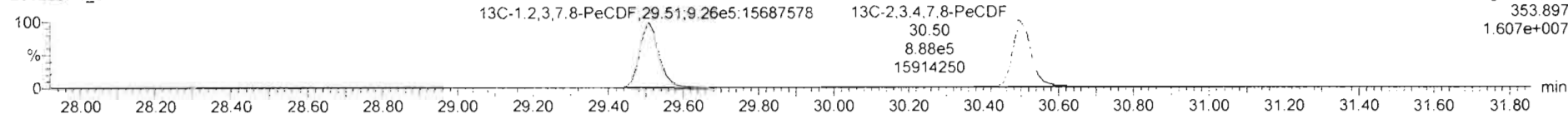


13C-1,2,3,7,8-PeCDF

200229R1_9

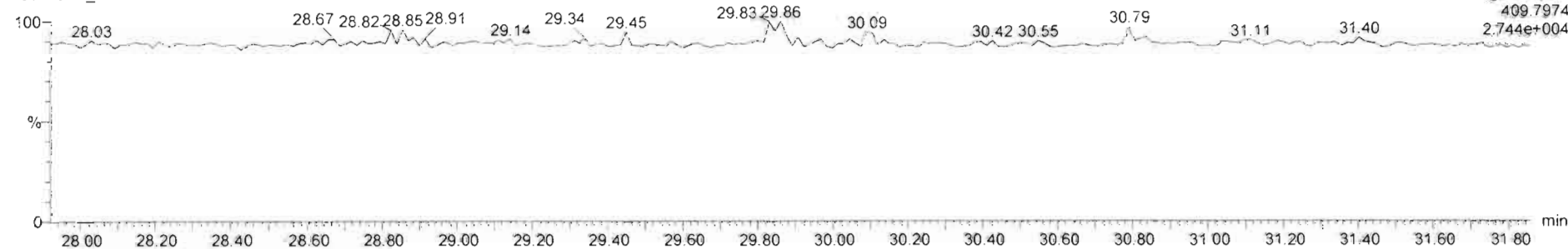


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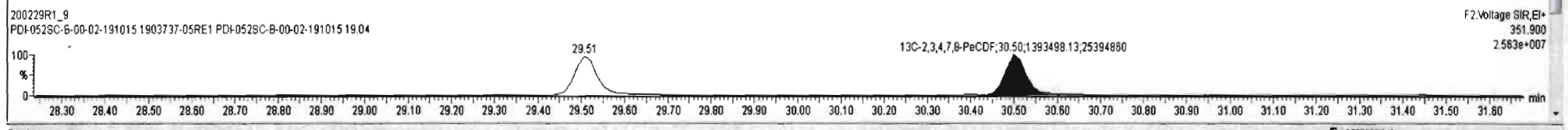
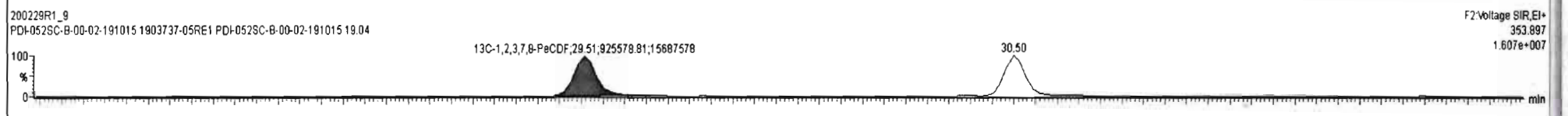
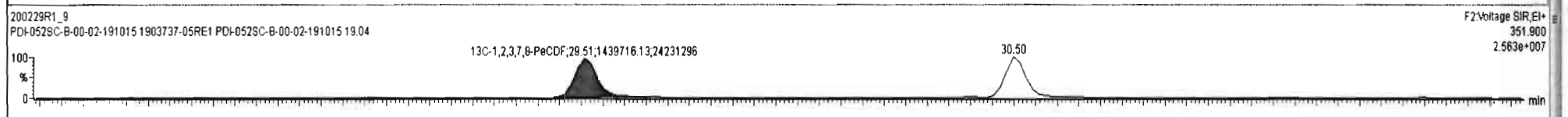
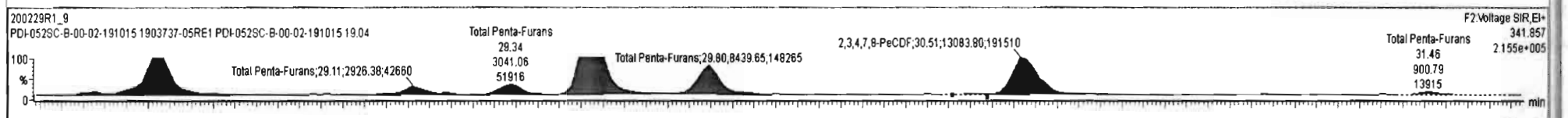
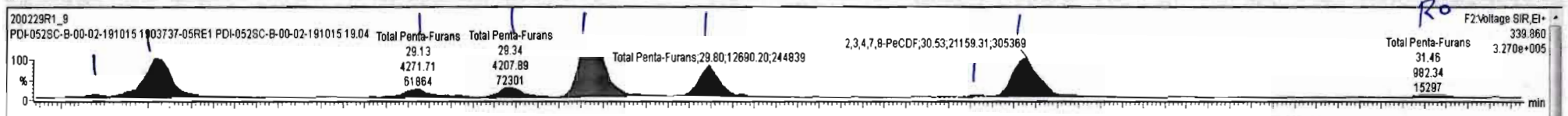
DPE2

200229R1_9



#	Name	Resp	RA	n/y	RRF	wtAval	Pred_RT	RT	Pred_R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.037	29.27		0.000		NO	15.97		0.0595	16.13
46	Total Hexa-Furans				0.8962	10.037	33.56		0.000		NO	23.02		0.0956	23.02
47	Total Hepta-Furans				0.8511	10.037	37.84		0.000		NO	27.00		0.2391	27.00

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	29.38	1.066e3	7.262e2	1.550	1.47	NO	0.16940	0.16940
2	45 Total Penta-Furans	29.27	29.52	2.285e4	1.530e4	1.550	1.49	NO	3.8053	3.8053
3	45 Total Penta-Furans	29.27	29.13	4.272e3	2.926e3	1.550	1.46	NO	0.69031	0.69031
4	45 Total Penta-Furans	29.27	29.34	4.208e3	3.041e3	1.550	1.38	NO	0.68512	0.68512
5	9 1,2,3,7,8-PeCDF	29.53	29.52	3.659e4	2.406e4	1.550	1.52	NO	5.6306	5.6306
6	45 Total Penta-Furans	29.27	29.80	1.269e4	8.440e3	1.550	1.50	NO	1.9971	1.9971
7	45 Total Penta-Furans	29.27	30.42	4.164e2	2.559e2	1.550	1.63	NO	0.063539	0.063539
8	10 2,3,4,7,8-PeCDF	30.53	30.53	2.116e4	1.308e4	1.550	1.62	NO	3.1425	3.1425
9	45 Total Penta-Furans	29.27	31.46	9.823e2	9.008e2	1.550	1.09	YES	0.15274	0.00000



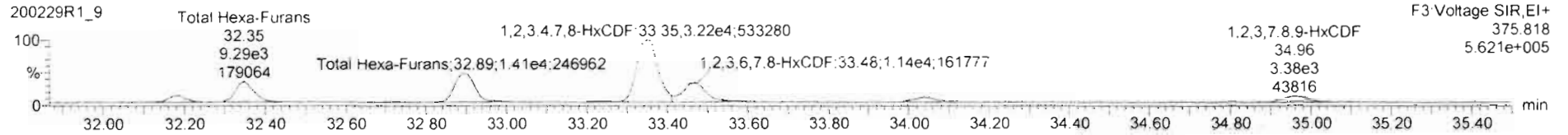
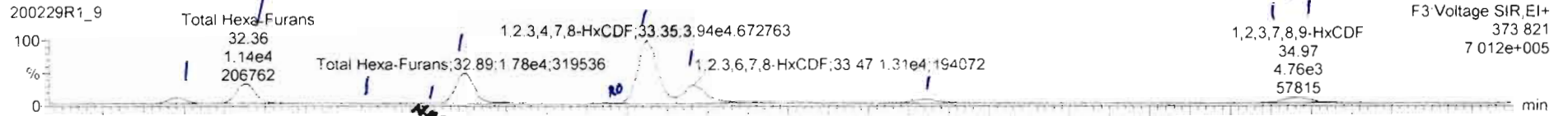
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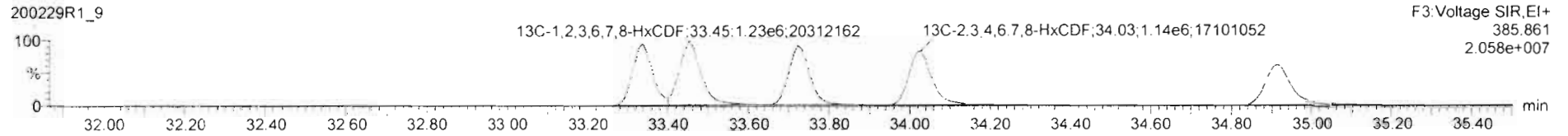
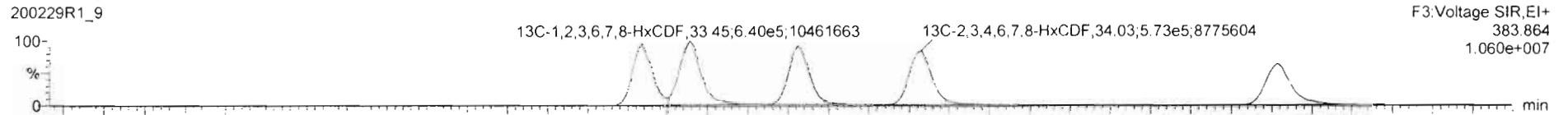
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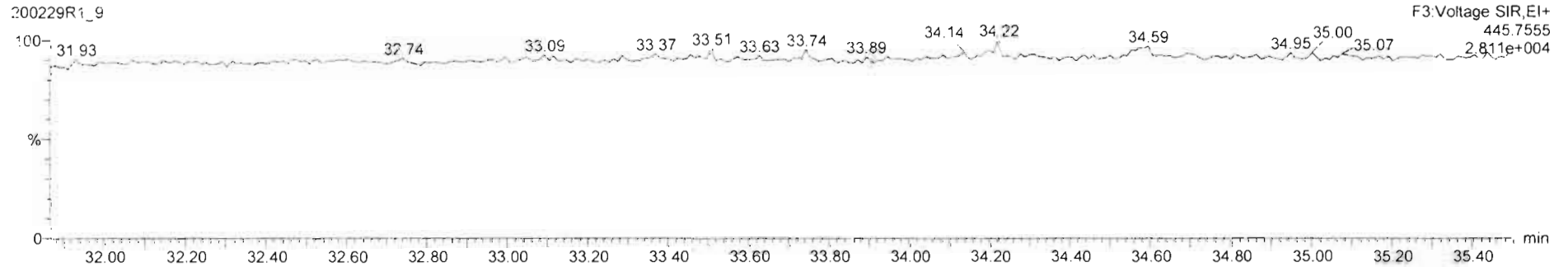
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13C-1,2,3,4,7,8-HxCDF



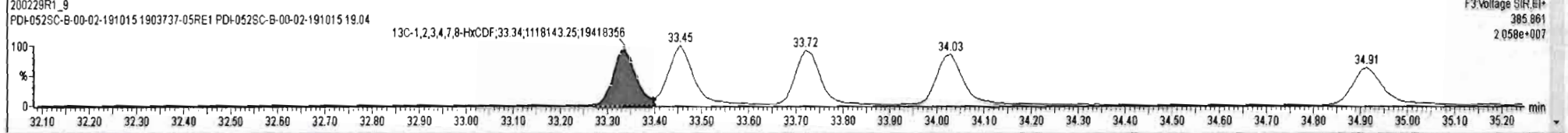
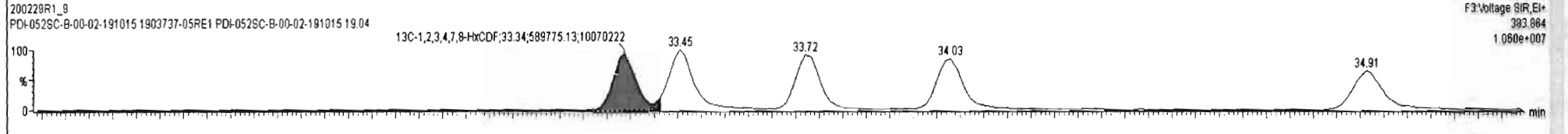
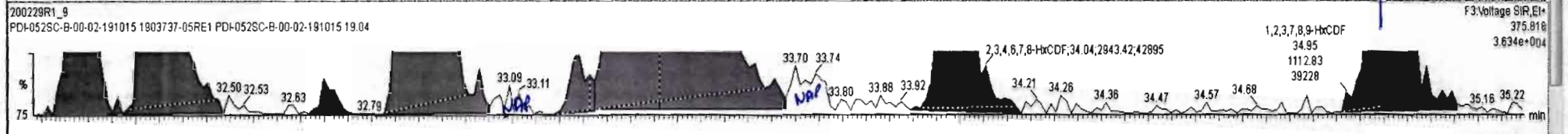
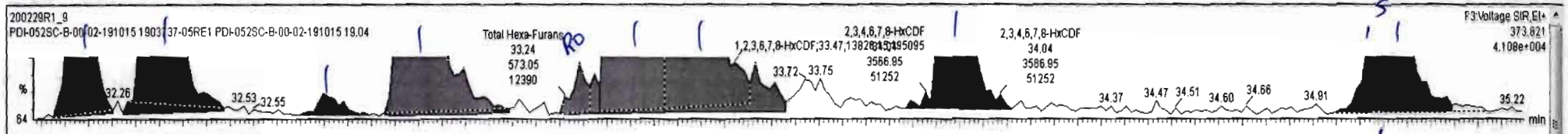
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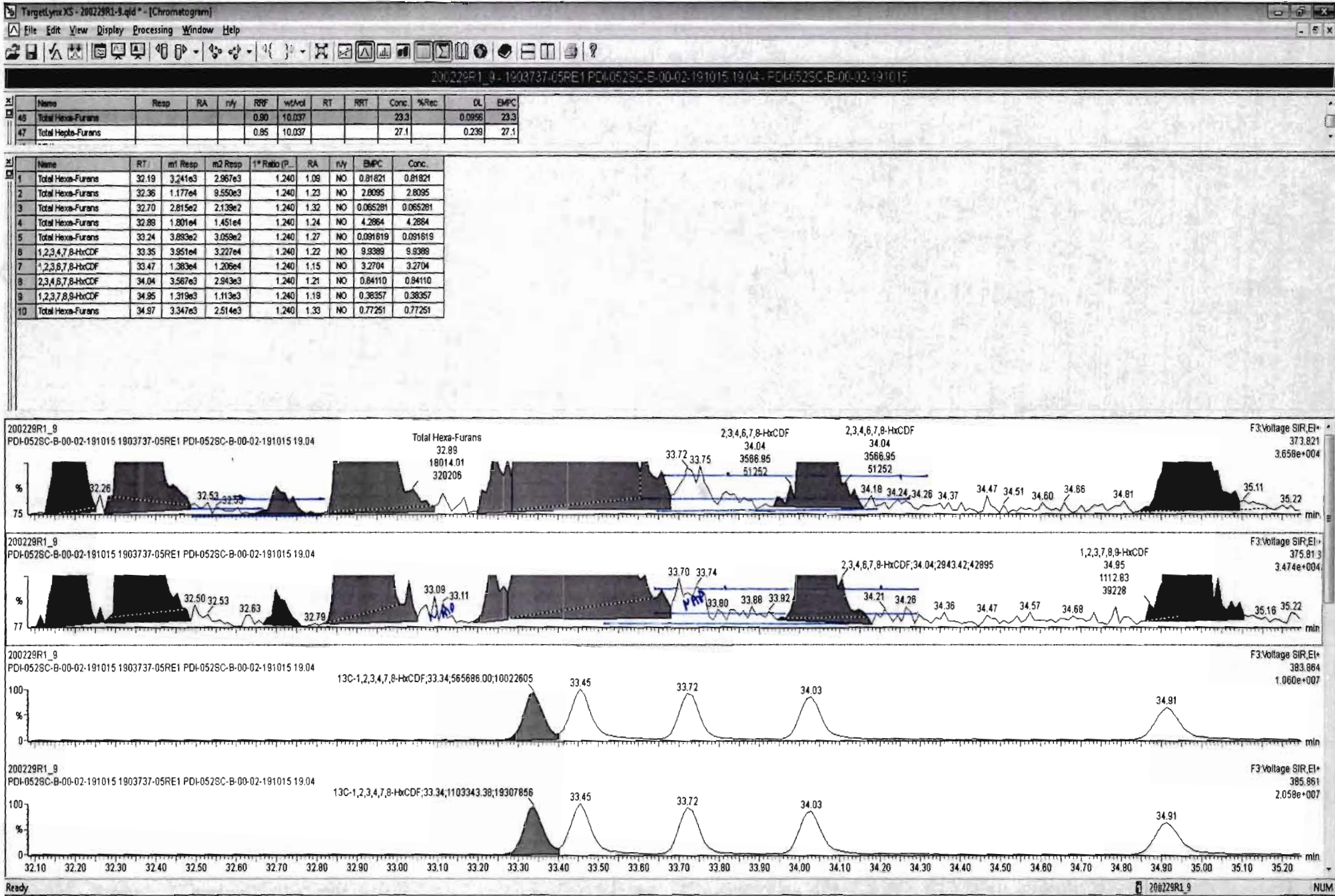


200229R1_9 - 1903737-05RE1 PDI-0525C-B-00-02-191015 19.04 - PDI-0525C-B-00-02-191015

Name	Resp	RA	n/y	RF	w/Acd	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.90	10.037			22.9	0.0958	23.0	
47 Total Hepta-Furans				0.85	10.037			27.1	0.238	27.1	

Name	RT	m1 Resp	m2 Resp	* Ratio (P..)	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	3.241e3	2.957e3	1.240	1.09	NO	0.91352	0.81352
2 Total Hexa-Furans	32.36	1.177e4	9.550e3	1.240	1.23	NO	2.7934	2.7934
3 Total Hexa-Furans	32.70	2.819e2	2.139e2	1.240	1.32	NO	0.064906	0.064906
4 Total Hexa-Furans	32.89	1.801e4	1.451e4	1.240	1.24	NO	4.2617	4.2617
5 Total Hexa-Furans	33.24	5.731e2	3.719e2	1.240	1.54	YES	0.10814	0.00000
6 1,2,3,4,7,8-HxCDF	33.35	3.837e4	3.222e4	1.240	1.22	NO	9.6859	9.6859
7 1,2,3,6,7,8-HxCDF	33.47	1.383e4	1.206e4	1.240	1.15	NO	3.2704	3.2704
8 2,3,4,6,7,8-HxCDF	34.04	3.567e3	2.943e3	1.240	1.21	NO	0.84110	0.84110
9 1,2,3,7,8,9-HxCDF	34.95	1.319e3	1.113e3	1.240	1.19	NO	0.38357	0.38357
10 Total Hexa-Furans	34.97	3.347e3	2.514e3	1.240	1.33	NO	0.76807	0.76807

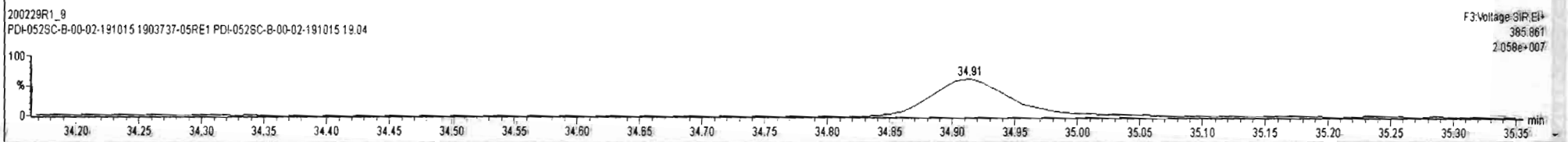
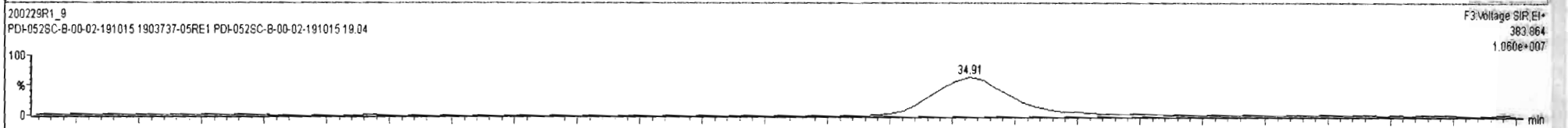
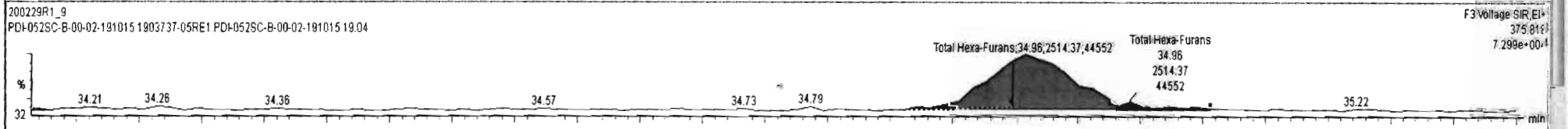
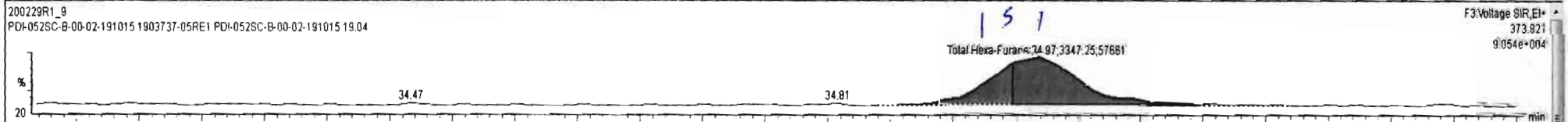




200229R1_9 - 1903737-05RE1 PDI-052SC-B-00-02-191015 19.04 - PDI-052SC-B-00-02-191015

Name	Reso	RA	n/y	R/F	w/Mol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.90	10.037			22.9	0.0958	23.0	
47 Total Hepta-Furans				0.85	10.037			27.1	0.238	27.1	

Name	RT	m1 Resp	m2 Resp	1* Ratio (P..)	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	3.241e3	2.967e3	1.240	1.09	NO	0.81352	0.81352
2 Total Hexa-Furans	32.36	1.177e4	9.550e3	1.240	1.23	NO	2.7934	2.7934
3 Total Hexa-Furans	32.70	2.815e2	2.139e2	1.240	1.32	NO	0.064906	0.064906
4 Total Hexa-Furans	32.89	1.801e4	1.451e4	1.240	1.24	NO	4.2617	4.2617
5 Total Hexa-Furans	33.24	5.731e2	3.718e2	1.240	1.54	YES	0.10914	0.00000
6 1,2,3,4,7,8-HxCDF	33.35	3.837e4	3.222e4	1.240	1.22	NO	9.8859	9.8859
7 1,2,3,6,7,8-HxCDF	33.47	1.383e4	1.206e4	1.240	1.15	NO	3.2704	3.2704
8 2,3,4,6,7,8-HxCDF	34.04	3.567e3	2.943e3	1.240	1.21	NO	0.84110	0.84110
9 1,2,3,7,8,9-HxCDF	34.95	1.319e3	1.113e3	1.240	1.19	NO	0.38357	0.38357
10 Total Hexa-Furans	34.97	3.347e3	2.514e3	1.240	1.33	NO	0.76807	0.76807

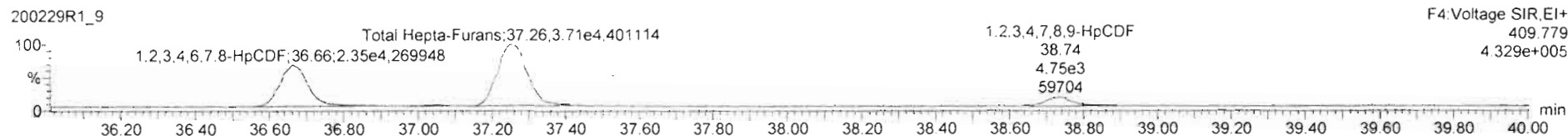
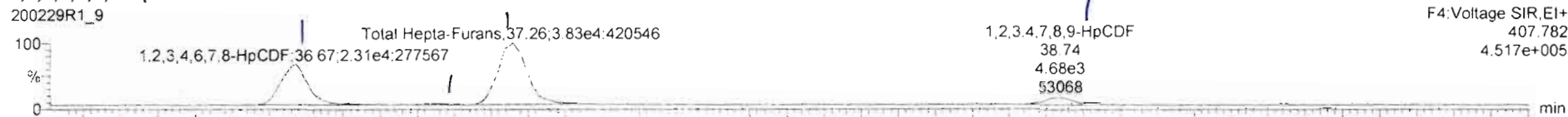


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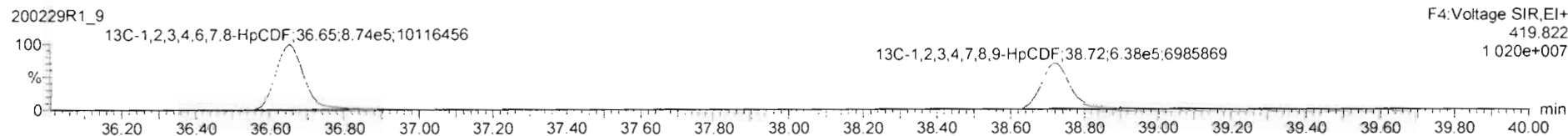
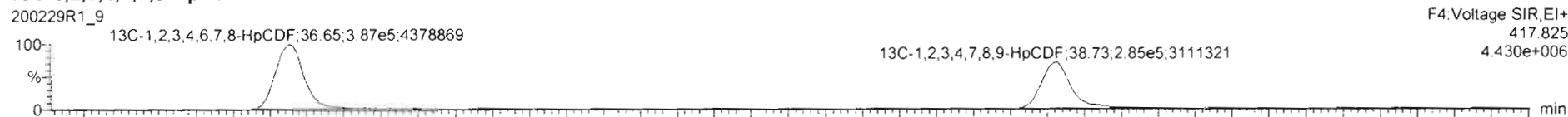
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_9, Date: 29-Feb-2020, Time: 17:33:52, ID: 1903737-05RE1 PDI-052SC-B-00-02-191015 19.04, Description: PDI-052SC-B-00-02-191015

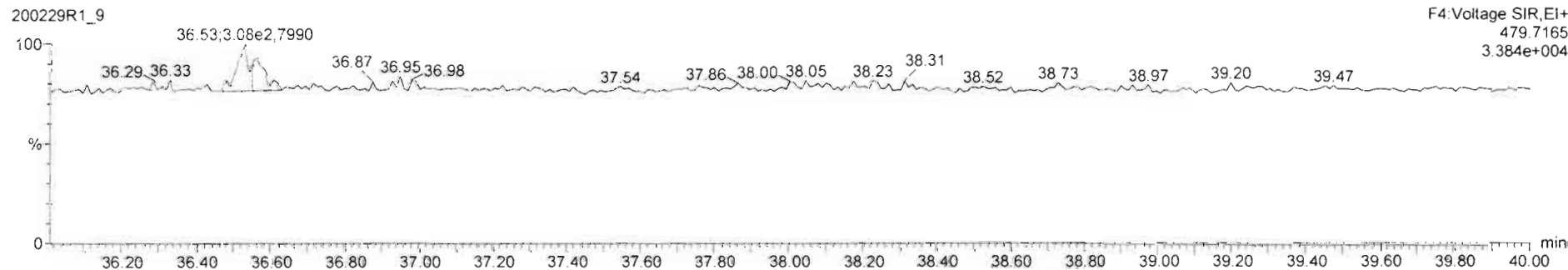
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13C-1,2,3,4,6,7,8-HpCDF



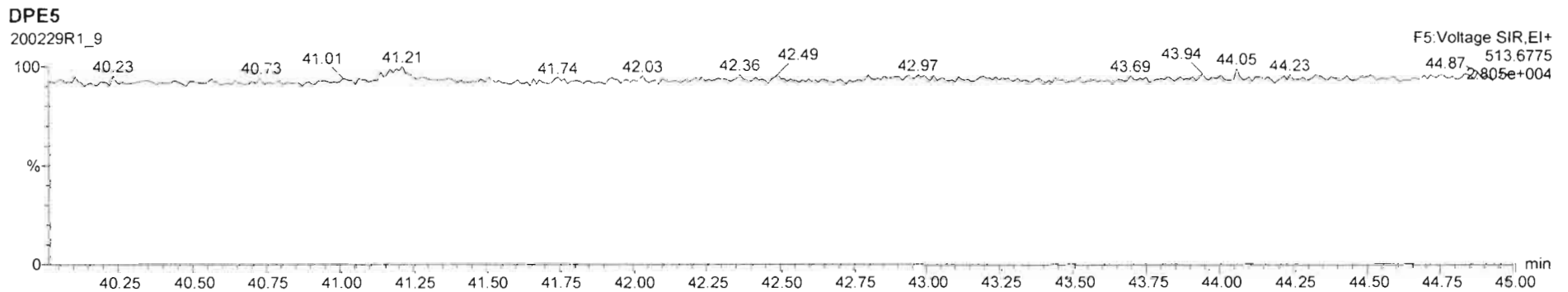
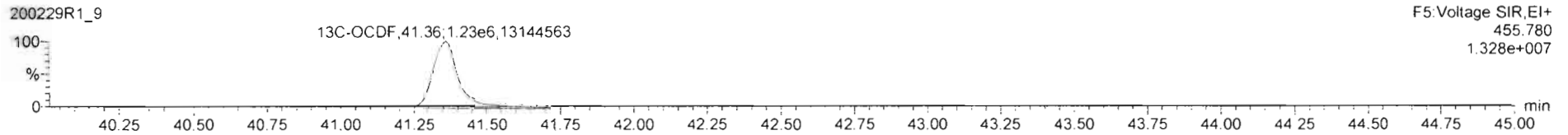
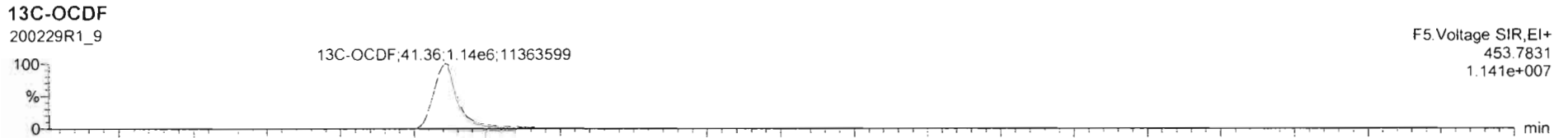
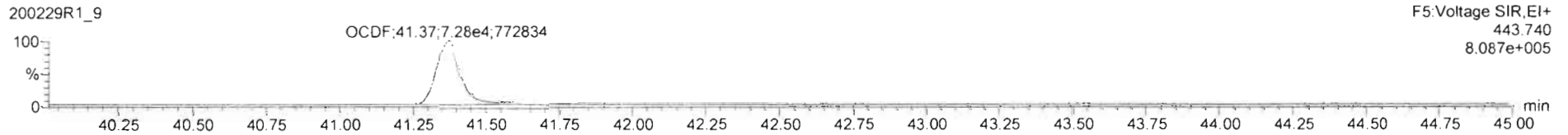
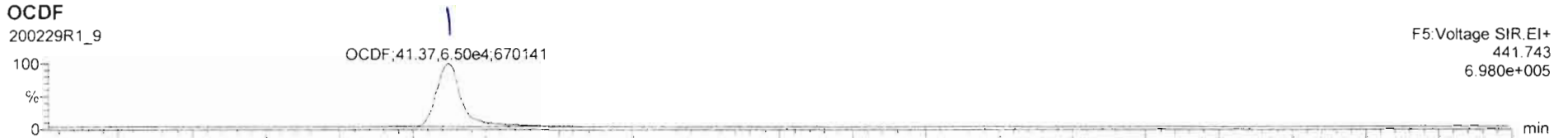
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

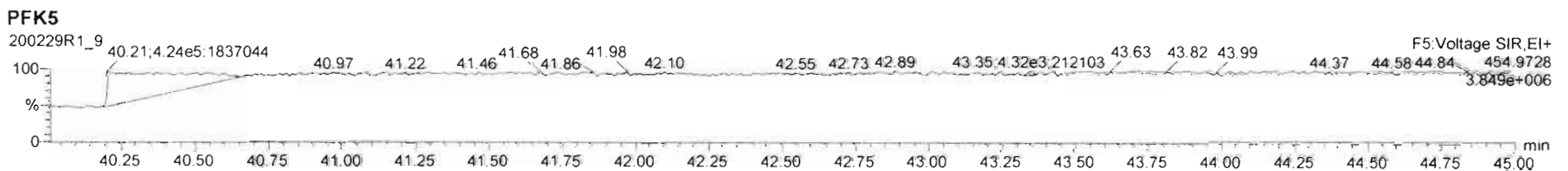
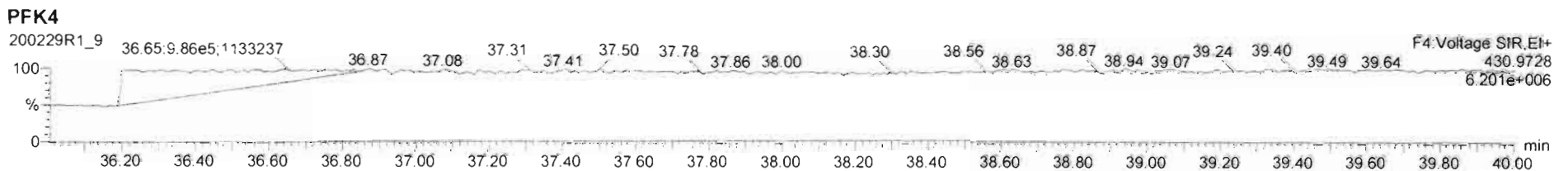
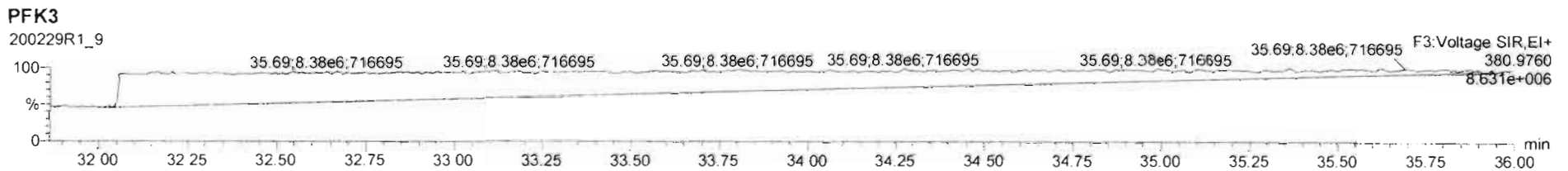
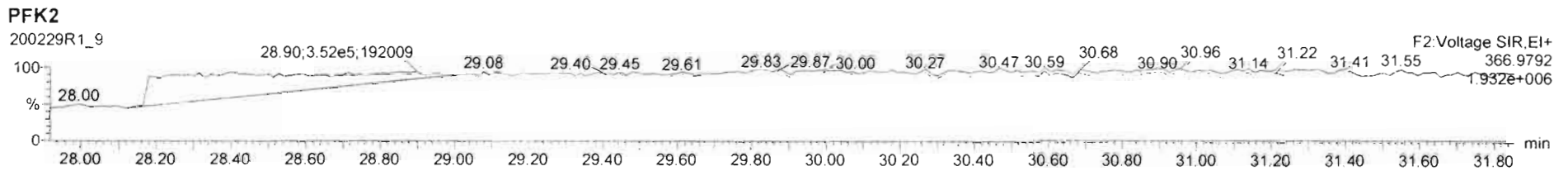
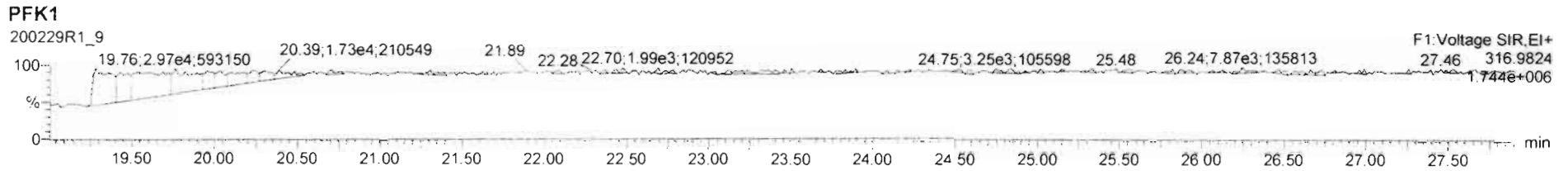
Name: 200229R1_9, Date: 29-Feb-2020, Time: 17:33:52, ID: 1903737-05RE1 PDI-052SC-B-00-02-191015 19.04, Description: PDI-052SC-B-00-02-191015



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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_9, Date: 29-Feb-2020, Time: 17:33:52, ID: 1903737-05RE1 PDI-052SC-B-00-02-191015 19.04, Description: PDI-052SC-B-00-02-191015



Dataset: U:\VG12.PRO\Results\200229R1\200229R1-10a.qld

Last Altered: Monday, March 09, 2020 09:22:41 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:32:51 Pacific Daylight Time

chy 03-09-2020 09:32/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R1_10, Date: 29-Feb-2020, Time: 18:21:18, ID: 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

#	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	17249.845	0.683	NO	0.988	10.048	✓25.77	25.77	1.00	1.00	NO	1.394		0.0583	1.394
2	2 1,2,3,7,8-PeCDD	20748.036	0.598	NO	0.972	10.048	30.86	30.85	1.00	1.00	NO	2.144		0.0660	2.144
3	3 1,2,3,4,7,8-HxCDD	21707.154	1.209	NO	1.07	10.048	34.22	34.22	1.00	1.00	NO	2.977		0.177	2.977
4	4 1,2,3,6,7,8-HxCDD	94803.363	1.211	NO	0.921	10.048	34.31	34.33	1.00	1.00	NO	11.13		0.182	11.13
5	5 1,2,3,7,8,9-HxCDD	42840.031	1.247	NO	0.918	10.048	34.62	34.59	1.00	1.00	NO	5.900		0.224	5.900
6	6 1,2,3,4,6,7,8-HpCDD	2372716.2...	1.002	NO	0.923	10.048	38.10	38.10	1.00	1.00	NO	378.8		1.04	378.8
7	7 OCDD	22117256....	0.883	NO	0.975	10.048	41.19	41.20	1.00	1.00	NO	4328		0.967	4328
8	8 2,3,7,8-TCDF	1082579.5...	0.762	NO	0.802	10.048	24.82	24.82	1.00	1.00	NO	88.25	(61.7)	0.0918	88.25
9	9 1,2,3,7,8-PeCDF	1531919.8...	1.532	NO	0.907	10.048	29.54	29.54	1.00	1.00	NO	121.8		0.218	121.8
10	10 2,3,4,7,8-PeCDF	114303.418	1.473	NO	0.952	10.048	30.51	30.51	1.00	1.00	NO	9.365		0.208	9.365
11	11 1,2,3,4,7,8-HxCDF	2081526.3...	1.207	NO	0.862	10.048	33.35	33.37	1.00	1.00	NO	260.6		0.251	260.6
12	12 1,2,3,6,7,8-HxCDF	682058.251	1.226	NO	0.841	10.048	33.48	33.49	1.00	1.00	NO	76.88		0.255	76.88
13	13 2,3,4,6,7,8-HxCDF	159177.672	1.222	NO	0.898	10.048	34.08	34.05	1.00	1.00	NO	19.48		0.286	19.48
14	14 1,2,3,7,8,9-HxCDF	31994.708	1.145	NO	0.858	10.048	34.92	34.95	1.00	1.00	NO	4.603		0.395	4.603
15	15 1,2,3,4,6,7,8-HpCDF	974918.157	1.003	NO	0.851	10.048	36.70	36.67	1.00	1.00	NO	166.1		0.501	166.1
16	16 1,2,3,4,7,8,9-HpCDF	260936.039	0.988	NO	0.980	10.048	38.73	38.74	1.00	1.00	NO	50.72		0.582	50.72
17	17 OCDF	1319612.8...	0.868	NO	0.806	10.048	41.37	41.38	1.00	1.00	NO	272.7		0.426	272.7
18	18 13C-2,3,7,8-TCDD	2493258.0...	0.777	NO	1.20	10.048	25.71	25.74	1.03	1.03	NO	203.8	102	0.142	
19	19 13C-1,2,3,7,8-PeCDD	1981339.3...	0.625	NO	0.967	10.048	30.84	30.83	1.23	1.23	NO	200.8	101	0.207	
20	20 13C-1,2,3,4,7,8-HxCDD	1355608.6...	1.260	NO	0.874	10.048	34.21	34.21	1.01	1.01	NO	168.8	84.8	0.554	
21	21 13C-1,2,3,6,7,8-HxCDD	1841081.1...	1.263	NO	1.05	10.048	34.32	34.31	1.02	1.02	NO	191.5	96.2	0.463	
22	22 13C-1,2,3,7,8,9-HxCDD	1574071.3...	1.273	NO	0.974	10.048	34.62	34.58	1.03	1.02	NO	175.7	88.3	0.497	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1350498.8...	1.027	NO	0.747	10.048	38.20	38.09	1.13	1.13	NO	196.6	98.8	0.410	
24	24 13C-OCDD	2087437.8...	0.838	NO	0.707	10.048	41.10	41.19	1.22	1.22	NO	321.4	80.7	0.417	
25	25 13C-2,3,7,8-TCDF	3044688.3...	0.782	NO	1.07	10.048	24.89	24.79	0.99	0.99	NO	204.2	103	0.247	
26	26 13C-1,2,3,7,8-PeCDF	2759272.3...	1.589	NO	1.00	10.048	29.47	29.52	1.18	1.18	NO	196.8	98.9	0.376	
27	27 13C-2,3,4,7,8-PeCDF	2553106.1...	1.541	NO	0.962	10.048	30.44	30.51	1.21	1.22	NO	189.7	95.3	0.392	
28	28 13C-1,2,3,4,7,8-HxCDF	1843566.3...	0.509	NO	1.05	10.048	33.34	33.35	0.99	0.99	NO	191.2	96.0	0.476	
29	29 13C-1,2,3,6,7,8-HxCDF	2098608.3...	0.517	NO	1.19	10.048	33.44	33.47	0.99	0.99	NO	191.9	96.4	0.420	
30	30 13C-2,3,4,6,7,8-HxCDF	1810623.2...	0.533	NO	1.07	10.048	34.05	34.04	1.01	1.01	NO	184.7	92.8	0.469	
31	31 13C-1,2,3,7,8,9-HxCDF	1613052.6...	0.539	NO	0.922	10.048	34.96	34.92	1.04	1.04	NO	190.3	95.6	0.542	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-10a.qld

Last Altered: Monday, March 09, 2020 09:22:41 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:32:51 Pacific Daylight Time

Name: 200229R1_10, Date: 29-Feb-2020, Time: 18:21:18, ID: 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1372491.5...	0.461	NO	0.767	10.048	36.71	36.66	1.09	1.09	NO	194.6	97.8	0.493	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1045052.5...	0.428	NO	0.552	10.048	38.74	38.73	1.15	1.15	NO	205.8	103	0.685	
34	34 13C-OCDF	2391465.1...	0.922	NO	0.789	10.048	41.33	41.37	1.23	1.23	NO	329.6	82.8	0.319	
35	35 37Cl-2,3,7,8-TCDD	894298.875			1.18	10.048	25.74	25.75	1.03	1.03	NO	74.50	93.6	0.0512	
36	36 13C-1,2,3,4-TCDD	2031292.6...	0.791	NO	1.00	10.048	25.11	25.06	1.00	1.00	NO	199.0	100	0.170	
37	37 13C-1,2,3,4-TCDF	2785389.1...	0.787	NO	1.00	10.048	23.37	23.30	1.00	1.00	NO	199.0	100	0.263	
38	38 13C-1,2,3,4,6,9-HxCDF	1829608.0...	0.515	NO	1.00	10.048	33.71	33.74	1.00	1.00	NO	199.0	100	0.500	
39	39 Total Tetra-Dioxins				0.988	10.048	24.62		0.00		NO	8.296		0.0583	8.520
40	40 Total Penta-Dioxins				0.972	10.048	29.96		0.00		NO	8.795		0.0660	12.84
41	41 Total Hexa-Dioxins				0.921	10.048	33.63		0.00		NO	97.17		0.203	97.17
42	42 Total Hepta-Dioxins				0.923	10.048	37.64		0.00		NO	799.8		1.04	799.8
43	43 Total Tetra-Furans				0.802	10.048	23.61		0.00		NO	294.3		0.0918	302.9
44	44 1st Func. Penta-Furans				0.907	10.048	27.09		0.00		NO	25.46		0.0306	25.46
45	45 Total Penta-Furans				0.907	10.048	29.27		0.00		NO	340.5		0.218	341.0
46	46 Total Hexa-Furans				0.898	10.048	33.56		0.00		NO	509.9		0.281	509.9
47	47 Total Hepta-Furans				0.851	10.048	37.83		0.00		NO	414.1		0.574	414.1

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-10a.qld

Last Altered: Monday, March 09, 2020 09:22:41 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:31:00 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

Calibration: U:\VG12.PRO\CurveDB\vb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R1_10, Date: 29-Feb-2020, Time: 18:21:18, ID: 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	3.59e4	2.49e6	0.761	NO	24.62	21.60	2.901	2.901
2	39 Total Tetra-Dioxins	9.91e3	2.49e6	0.801	NO	24.62	22.02	0.8009	0.8009
3	39 Total Tetra-Dioxins	2.62e3	2.49e6	0.694	NO	24.62	22.50	0.2115	0.2115
4	39 Total Tetra-Dioxins	1.84e3	2.49e6	0.875	NO	24.62	23.46	0.1490	0.1490
5	39 Total Tetra-Dioxins	7.68e3	2.49e6	0.787	NO	24.62	23.76	0.6204	0.6204
6	39 Total Tetra-Dioxins	8.11e3	2.49e6	0.768	NO	24.62	23.98	0.6549	0.6549
7	39 Total Tetra-Dioxins	1.78e3	2.49e6	0.715	NO	24.62	24.18	0.1435	0.1435
8	39 Total Tetra-Dioxins	2.14e3	2.49e6	0.785	NO	24.62	24.64	0.1725	0.1725
9	39 Total Tetra-Dioxins	1.54e4	2.49e6	0.725	NO	24.62	25.48	1.248	1.248
10	1 2,3,7,8-TCDD	1.72e4	2.49e6	0.683	NO	25.77	25.77	1.394	1.394
11	39 Total Tetra-Dioxins	0.00e0	2.49e6	0.911	YES	24.62	26.09	0.0000	0.2243

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.98e6	0.615	NO	29.96	28.61	0.0000	3.692
2	40 Total Penta-Dioxins	1.67e3	1.98e6	0.651	NO	29.96	28.65	0.1727	0.1727
3	40 Total Penta-Dioxins	5.86e3	1.98e6	0.582	NO	29.96	29.08	0.6052	0.6052
4	40 Total Penta-Dioxins	2.12e4	1.98e6	0.678	NO	29.96	29.60	2.193	2.193
5	40 Total Penta-Dioxins	1.22e4	1.98e6	0.621	NO	29.96	29.77	1.257	1.257
6	40 Total Penta-Dioxins	6.81e3	1.98e6	0.680	NO	29.96	29.86	0.7036	0.7036
7	40 Total Penta-Dioxins	1.07e4	1.98e6	0.649	NO	29.96	30.07	1.103	1.103
8	40 Total Penta-Dioxins	0.00e0	1.98e6	0.533	YES	29.96	30.42	0.0000	0.3137
9	40 Total Penta-Dioxins	0.00e0	1.98e6	1.628	YES	29.96	30.51	0.0000	0.04390
10	2 1,2,3,7,8-PeCDD	2.07e4	1.98e6	0.598	NO	30.86	30.85	2.144	2.144
11	40 Total Penta-Dioxins	3.17e3	1.98e6	0.545	NO	29.96	31.25	0.3279	0.3279
12	40 Total Penta-Dioxins	2.80e3	1.98e6	0.628	NO	29.96	30.93	0.2896	0.2896

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Dataset: U:\VG12.PRO\Results\200229R1\200229R1-10a.qld

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Name: 200229R1_10, Date: 29-Feb-2020, Time: 18:21:18, ID: 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

Hexa-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	2.54e5	0.00e0	1.230	NO	33.63	32.75	34.55	34.55
2	41 Total Hexa-Dioxins	3.38e4	0.00e0	1.256	NO	33.63	33.29	4.596	4.596
3	41 Total Hexa-Dioxins	2.75e5	0.00e0	1.233	NO	33.63	33.55	37.43	37.43
4	3 1,2,3,4,7,8-HxCDD	2.17e4	1.36e6	1.209	NO	34.22	34.22	2.977	2.977
5	4 1,2,3,6,7,8-HxCDD	9.48e4	1.84e6	1.211	NO	34.31	34.33	11.13	11.13
6	41 Total Hexa-Dioxins	4.36e3	0.00e0	1.120	NO	33.63	34.51	0.5924	0.5924
7	5 1,2,3,7,8,9-HxCDD	4.28e4	1.57e6	1.247	NO	34.62	34.59	5.900	5.900

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	2.64e6	1.35e6	1.025	NO	37.64	37.06	421.0	421.0
2	6 1,2,3,4,6,7,8-HpCDD	2.37e6	1.35e6	1.002	NO	38.10	38.10	378.8	378.8

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-10a.qld

Last Altered: Monday, March 09, 2020 09:22:41 Pacific Daylight Time
 Printed: Monday, March 09, 2020 09:31:00 Pacific Daylight Time

Name: 200229R1_10, Date: 29-Feb-2020, Time: 18:21:18, ID: 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	7.02e3	3.04e6	0.790	NO	23.61	19.57	0.5721	0.5721
2	43 Total Tetra-Furans	1.90e4	3.04e6	0.746	NO	23.61	20.06	1.545	1.545
3	43 Total Tetra-Furans	1.31e5	3.04e6	0.761	NO	23.61	20.65	10.66	10.66
4	43 Total Tetra-Furans	5.87e4	3.04e6	0.764	NO	23.61	21.18	4.784	4.784
5	43 Total Tetra-Furans	3.25e5	3.04e6	0.762	NO	23.61	21.57	26.49	26.49
6	43 Total Tetra-Furans	8.84e4	3.04e6	0.732	NO	23.61	22.04	7.208	7.208
7	43 Total Tetra-Furans	8.05e3	3.04e6	0.804	NO	23.61	22.19	0.6559	0.6559
8	43 Total Tetra-Furans	4.72e4	3.04e6	0.720	NO	23.61	22.40	3.845	3.845
9	43 Total Tetra-Furans	8.23e3	3.04e6	0.728	NO	23.61	22.86	0.6711	0.6711
10	43 Total Tetra-Furans	6.77e3	3.04e6	0.849	NO	23.61	23.00	0.5520	0.5520
11	43 Total Tetra-Furans	4.50e4	3.04e6	0.728	NO	23.61	23.21	3.669	3.669
12	43 Total Tetra-Furans	9.43e5	3.04e6	0.761	NO	23.61	23.83	76.86	76.86
13	43 Total Tetra-Furans	3.82e4	3.04e6	0.789	NO	23.61	24.15	3.117	3.117
14	43 Total Tetra-Furans	2.78e4	3.04e6	0.755	NO	23.61	24.36	2.265	2.265
15	43 Total Tetra-Furans	6.86e3	3.04e6	0.802	NO	23.61	24.58	0.5591	0.5591
16	43 Total Tetra-Furans	2.68e5	3.04e6	0.763	NO	23.61	24.70	21.81	21.81
17	8 2,3,7,8-TCDF	1.08e6	3.04e6	0.762	NO	24.82	24.82	88.25	88.25
18	43 Total Tetra-Furans	4.82e4	3.04e6	0.773	NO	23.61	25.21	3.929	3.929
19	43 Total Tetra-Furans	9.46e3	3.04e6	0.722	NO	23.61	25.47	0.7711	0.7711
20	43 Total Tetra-Furans	0.00e0	3.04e6	1.035	YES	23.61	26.62	0.0000	0.2550
21	43 Total Tetra-Furans	0.00e0	3.04e6	0.933	YES	23.61	26.90	0.0000	8.390
22	43 Total Tetra-Furans	4.43e5	3.04e6	0.761	NO	23.61	23.30	36.10	36.10

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	3.08e5	0.00e0	1.566	NO	27.09	26.90	25.46	25.46

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-10a.qld

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Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	2.31e4	0.00e0	1.513	NO	29.27	28.39	1.904	1.904
2	45 Total Penta-Furans	8.74e5	0.00e0	1.544	NO	29.27	28.53	72.18	72.18
3	45 Total Penta-Furans	1.60e5	0.00e0	1.531	NO	29.27	29.13	13.22	13.22
4	45 Total Penta-Furans	1.81e5	0.00e0	1.565	NO	29.27	29.35	14.95	14.95
5	9 1,2,3,7,8-PeCDF	1.53e6	2.76e6	1.532	NO	29.54	29.54	121.8	121.8
6	45 Total Penta-Furans	5.44e5	0.00e0	1.523	NO	29.27	29.81	44.96	44.96
7	45 Total Penta-Furans	0.00e0	0.00e0	2.114	YES	29.27	30.32	0.0000	0.1632
8	45 Total Penta-Furans	8.04e3	0.00e0	1.735	NO	29.27	30.42	0.6640	0.6640
9	10 2,3,4,7,8-PeCDF	1.14e5	2.55e6	1.473	NO	30.51	30.51	9.365	9.365
10	45 Total Penta-Furans	3.69e4	0.00e0	1.565	NO	29.27	31.48	3.047	3.047
11	45 Total Penta-Furans	0.00e0	0.00e0	2.208	YES	29.27	31.61	0.0000	0.3483
12	45 Total Penta-Furans	7.08e5	0.00e0	1.563	NO	29.27	30.55	58.45	58.45

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	1.24e5	0.00e0	1.194	NO	33.56	32.20	14.88	14.88
2	46 Total Hexa-Furans	4.30e5	0.00e0	1.194	NO	33.56	32.37	51.80	51.80
3	46 Total Hexa-Furans	7.75e3	0.00e0	1.240	NO	33.56	32.72	0.9332	0.9332
4	46 Total Hexa-Furans	4.49e5	0.00e0	1.208	NO	33.56	32.91	53.99	53.99
5	46 Total Hexa-Furans	1.94e4	0.00e0	1.347	NO	33.56	33.26	2.330	2.330
6	11 1,2,3,4,7,8-HxCDF	2.08e6	1.84e6	1.207	NO	33.35	33.37	260.6	260.6
7	12 1,2,3,6,7,8-HxCDF	6.82e5	2.10e6	1.226	NO	33.48	33.49	76.88	76.88
8	46 Total Hexa-Furans	7.62e3	0.00e0	1.341	NO	33.56	33.74	0.9175	0.9175
9	13 2,3,4,6,7,8-HxCDF	1.59e5	1.81e6	1.222	NO	34.08	34.05	19.48	19.48
10	14 1,2,3,7,8,9-HxCDF	3.20e4	1.61e6	1.145	NO	34.92	34.95	4.603	4.603
11	46 Total Hexa-Furans	1.95e5	0.00e0	1.228	NO	33.56	34.98	23.46	23.46

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-10a.qld

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Name: 200229R1_10, Date: 29-Feb-2020, Time: 18:21:18, ID: 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	9.75e5	1.37e6	1.003	NO	36.70	36.67	166.1	166.1
2	47 Total Hepta-Furans	1.58e4	0.00e0	0.946	NO	37.83	37.06	3.056	3.056
3	47 Total Hepta-Furans	1.00e6	0.00e0	1.007	NO	37.83	37.27	194.2	194.2
4	16 1,2,3,4,7,8,9-HpCDF	2.61e5	1.05e6	0.988	NO	38.73	38.74	50.72	50.72

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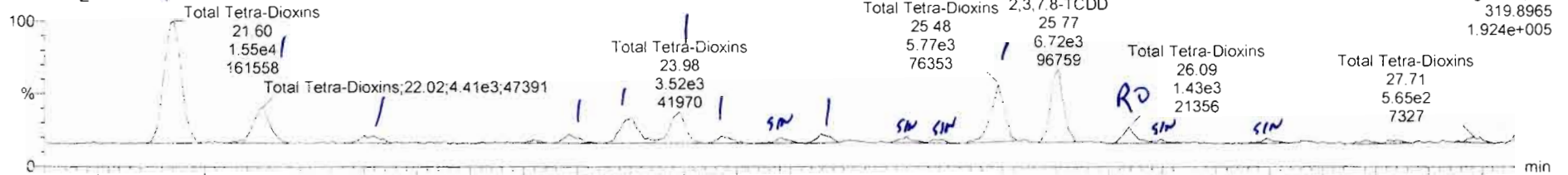
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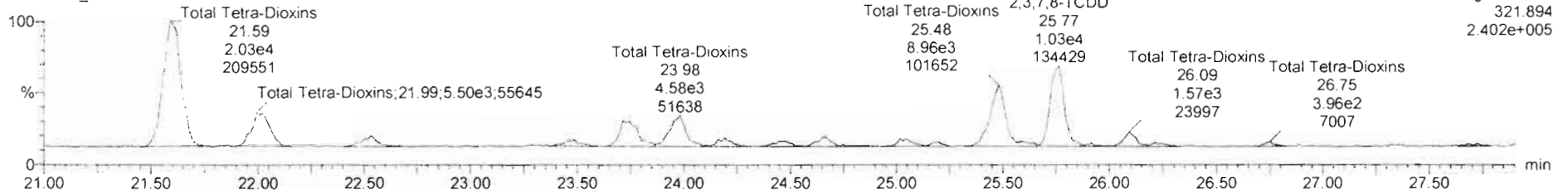
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2,3,7,8-TCDD

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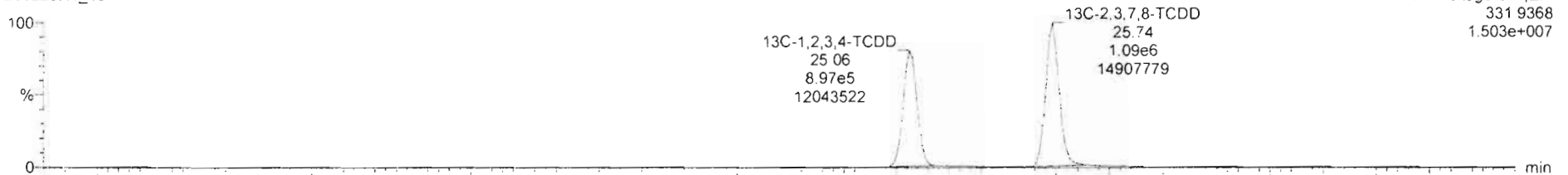


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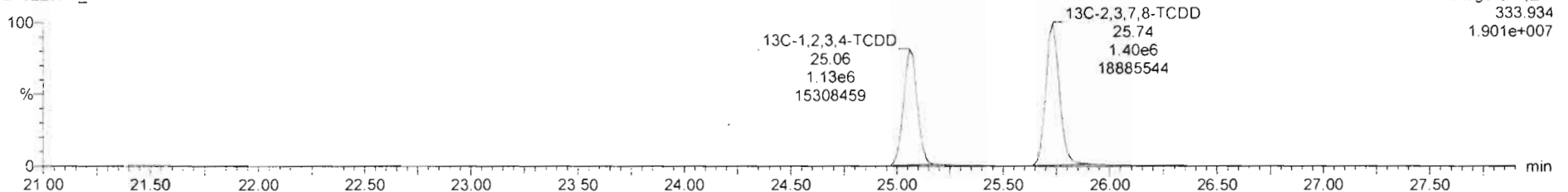


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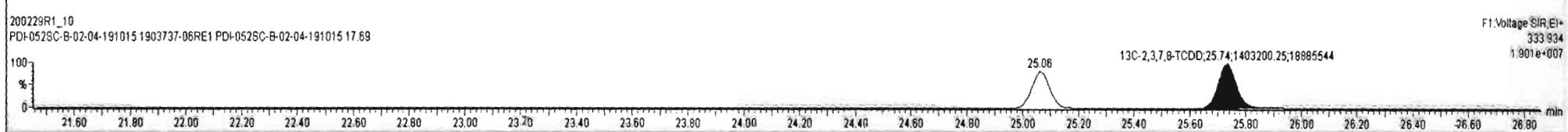
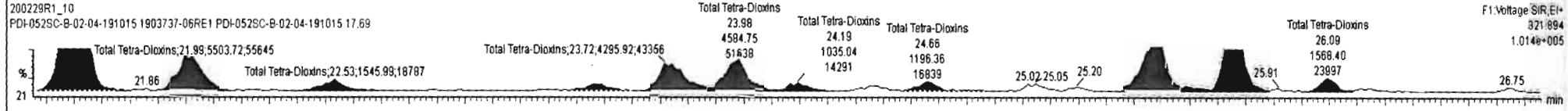
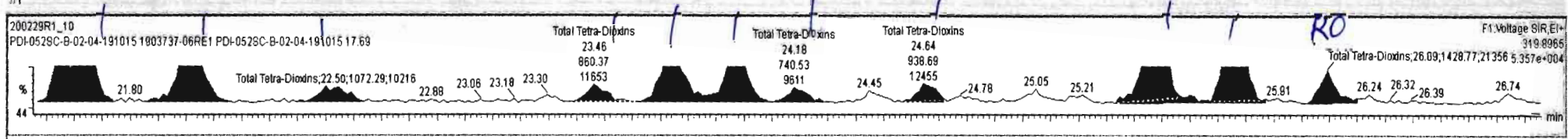
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200229R1_10 - 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69 - PDI-052SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF	wtVol	Pred_RT	RT	Pred_R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9951	10.048	24.62		0.000		NO	0.239		0.0583	15.20
40	Total Penta-Dioxins				0.9723	10.048	29.86		0.000		NO	12.36		0.0680	12.80
41	Total Hexa-Dioxins				0.9211	10.048	33.63		0.000		NO	95.30		0.203	96.19
42	Total Hepta-Dioxins				0.9231	10.048	37.64		0.000		NO	799.8		1.04	799.8
43	Total Tetra-Furans				0.8020	10.048	23.61		0.000		NO	288.1		0.0918	297.1

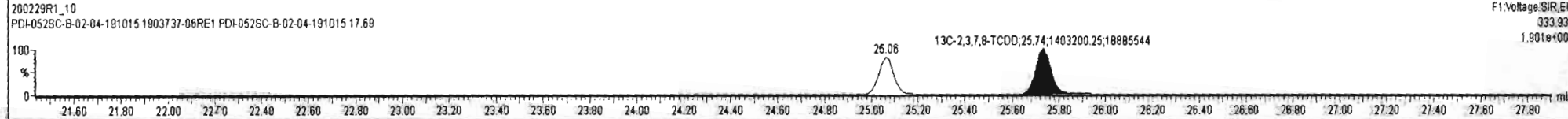
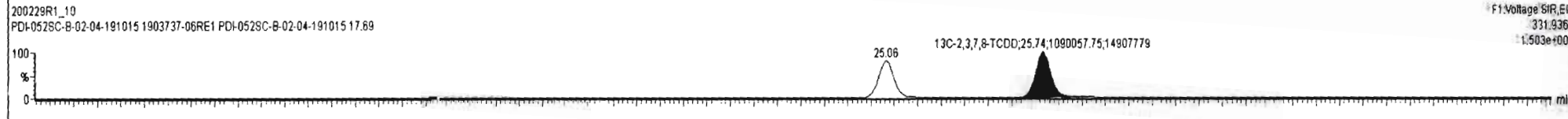
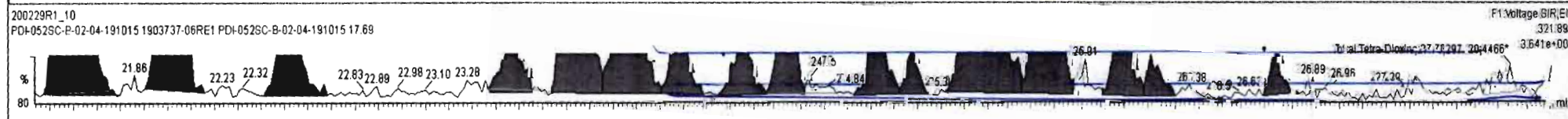
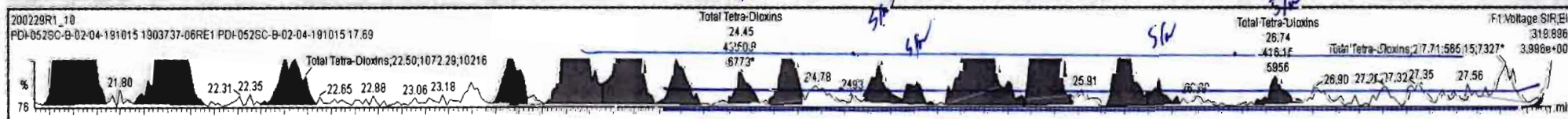
#	Name	Pred_RT	RT	wt Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.60	1.552e4	2.039e4	0.770	0.76	NO	2.9010	2.9010
2	39 Total Tetra-Dioxins	24.62	22.02	4.409e3	5.504e3	0.770	0.80	NO	0.80092	0.80092
3	39 Total Tetra-Dioxins	24.62	22.50	1.072e3	1.546e3	0.770	0.68	NO	0.21155	0.21155
4	39 Total Tetra-Dioxins	24.62	23.46	8.604e2	9.832e2	0.770	0.89	NO	0.14886	0.14886
5	39 Total Tetra-Dioxins	24.62	23.76	3.382e3	4.298e3	0.770	0.79	NO	0.62035	0.62035
6	39 Total Tetra-Dioxins	24.62	23.98	3.520e3	4.585e3	0.770	0.77	NO	0.65486	0.65486
7	39 Total Tetra-Dioxins	24.62	24.18	7.405e2	1.035e3	0.770	0.72	NO	0.14346	0.14346
8	39 Total Tetra-Dioxins	24.62	24.64	9.387e2	1.198e3	0.770	0.78	NO	0.17250	0.17250
9	39 Total Tetra-Dioxins	24.62	25.48	6.493e3	8.958e3	0.770	0.72	NO	1.2482	1.2482
10	1 2,3,7,8-TCDD	25.77	25.77	6.898e3	1.025e4	0.770	0.88	NO	1.3937	1.3937
11	39 Total Tetra-Dioxins	24.62	26.09	1.429e3	1.568e3	0.770	0.91	YES	0.22429	0.00000



200229R1_10 - 1903737-06RE1 PDI-0525C-B-02-04-191015 17.69 PDI-0525C-B-02-04-191015

#	Name	Resp	RA	mV	RRF	Method	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	EMPC
39	Total Tetra-Dioxins				0.9891	10.048	24.62		0.000		NO	6.997	0.0583	8.724
40	Total Penta-Dioxins				0.9723	10.046	29.96		0.000		NO	12.36	0.0660	12.80
41	Total Hexa-Dioxins				0.9211	10.048	33.63		0.000		NO	95.30	0.203	96.19
42	Total Hepta-Dioxins				0.9231	10.048	37.64		0.000		NO	799.8	1.04	799.8
43	Total Tetra-Furans				0.8020	10.048	23.81		0.000		NO	268.1	0.0918	267.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	mV	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.80	1.552e4	2.029e4	0.770	0.76	NO	2.8930	2.8933
2	39 Total Tetra-Dioxins	24.62	22.02	4.409e3	5.504e3	0.770	0.80	NO	0.80100	0.80082
3	39 Total Tetra-Dioxins	24.62	22.50	1.072e3	1.546e3	0.770	0.69	NO	0.21200	0.21155
4	39 Total Tetra-Dioxins	24.62	23.46	9.442e2	9.328e2	0.770	1.01	YES	0.13300	0.00000
5	39 Total Tetra-Dioxins	24.62	23.76	3.382e3	4.296e3	0.770	0.79	NO	0.62000	0.62035
6	39 Total Tetra-Dioxins	24.62	23.98	3.520e3	4.585e3	0.770	0.77	NO	0.65500	0.65466
7	39 Total Tetra-Dioxins	24.62	24.18	7.405e2	1.035e3	0.770	0.71	NO	0.14300	0.14346
8	39 Total Tetra-Dioxins	24.62	24.45	5.168e2	8.267e2	0.770	0.63	YES	0.086000	0.00000
9	39 Total Tetra-Dioxins	24.62	24.64	8.831e2	1.335e3	0.770	0.67	NO	0.18000	0.18006
10	39 Total Tetra-Dioxins	24.62	25.05	5.531e2	1.035e3	0.770	0.53	YES	0.10300	0.00000
11	39 Total Tetra-Dioxins	24.62	25.21	3.594e2	4.401e2	0.770	0.82	NO	0.065000	0.064598
12	39 Total Tetra-Dioxins	24.62	25.48	5.772e2	8.958e2	0.770	0.64	YES	1.0720	0.00000
13	1 2,3,7,8-TCDD	25.77	25.76	6.717e3	1.025e4	0.770	0.85	NO	1.3710	1.3710
14	39 Total Tetra-Dioxins	24.62	26.09	1.429e3	1.588e3	0.770	0.91	YES	0.22400	0.00000
15	39 Total Tetra-Dioxins	24.62	26.24	2.870e2	4.142e2	0.770	0.69	NO	0.057000	0.056683
16	39 Total Tetra-Dioxins	24.62	26.74	4.162e2	3.959e2	0.770	1.05	YES	0.057000	0.00000
17	39 Total Tetra-Dioxins	24.62	27.71	5.851e2	2.972e2	0.770	1.90	YES	0.043000	0.00000



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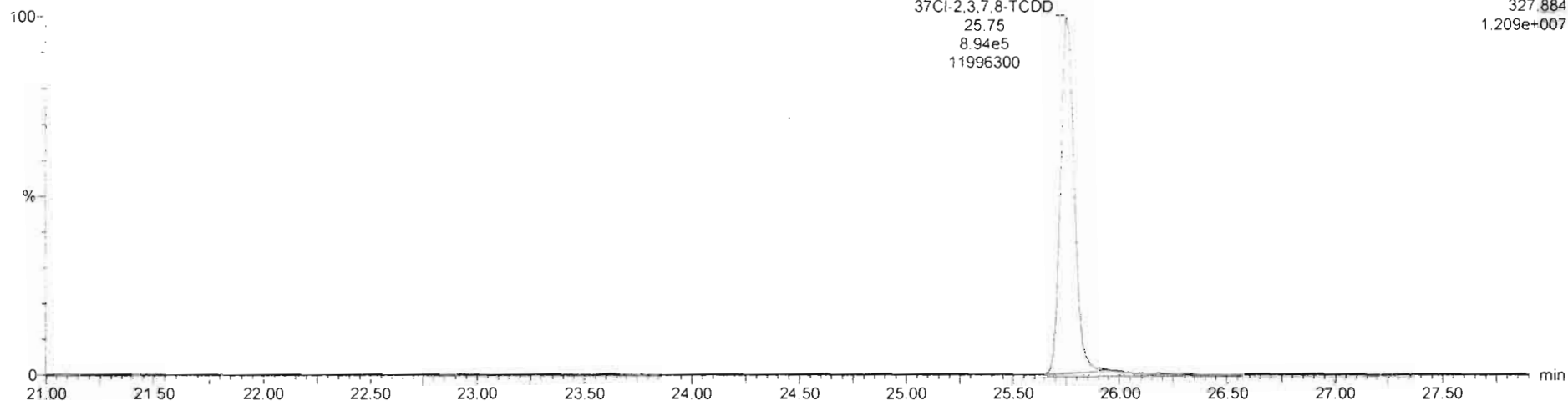
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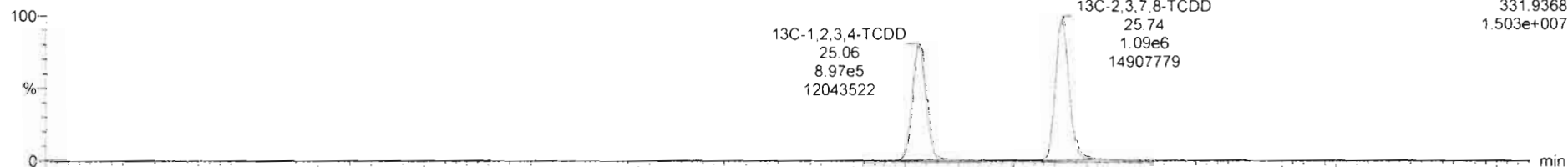
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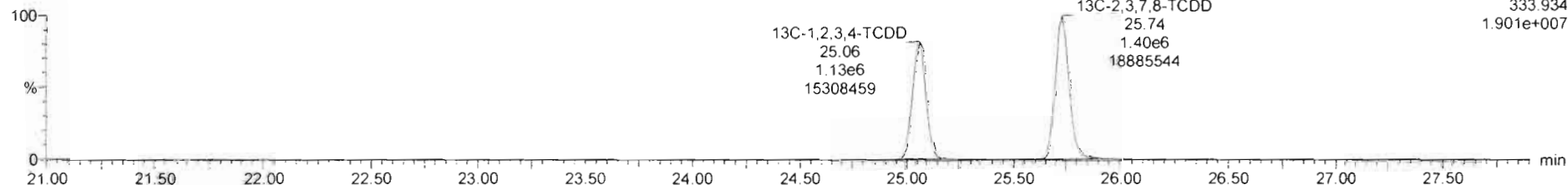


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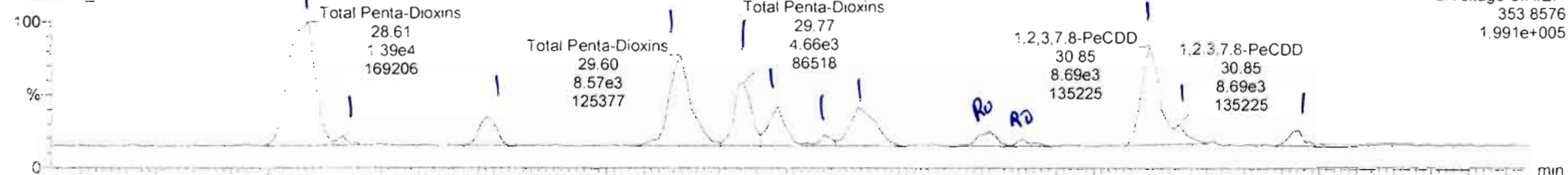
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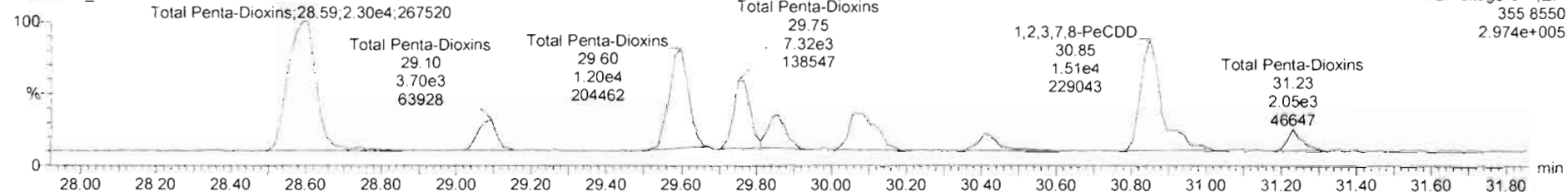
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1,2,3,7,8-PeCDD

200229R1_10

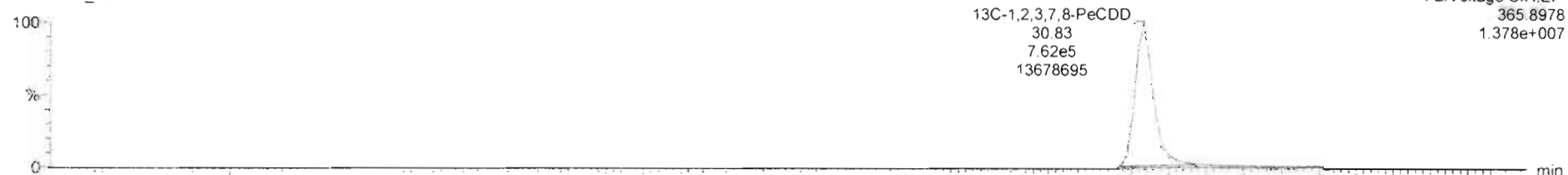


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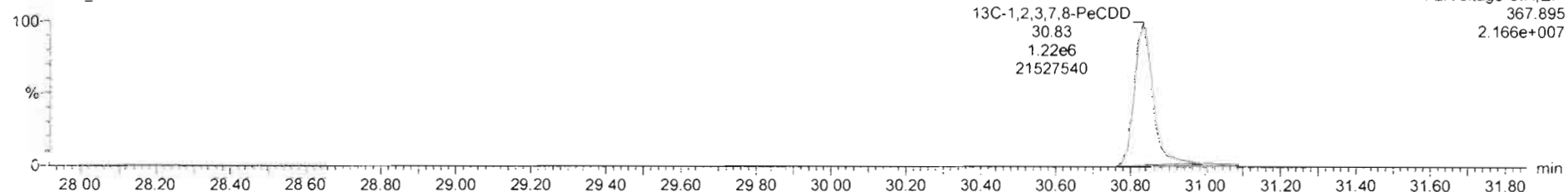


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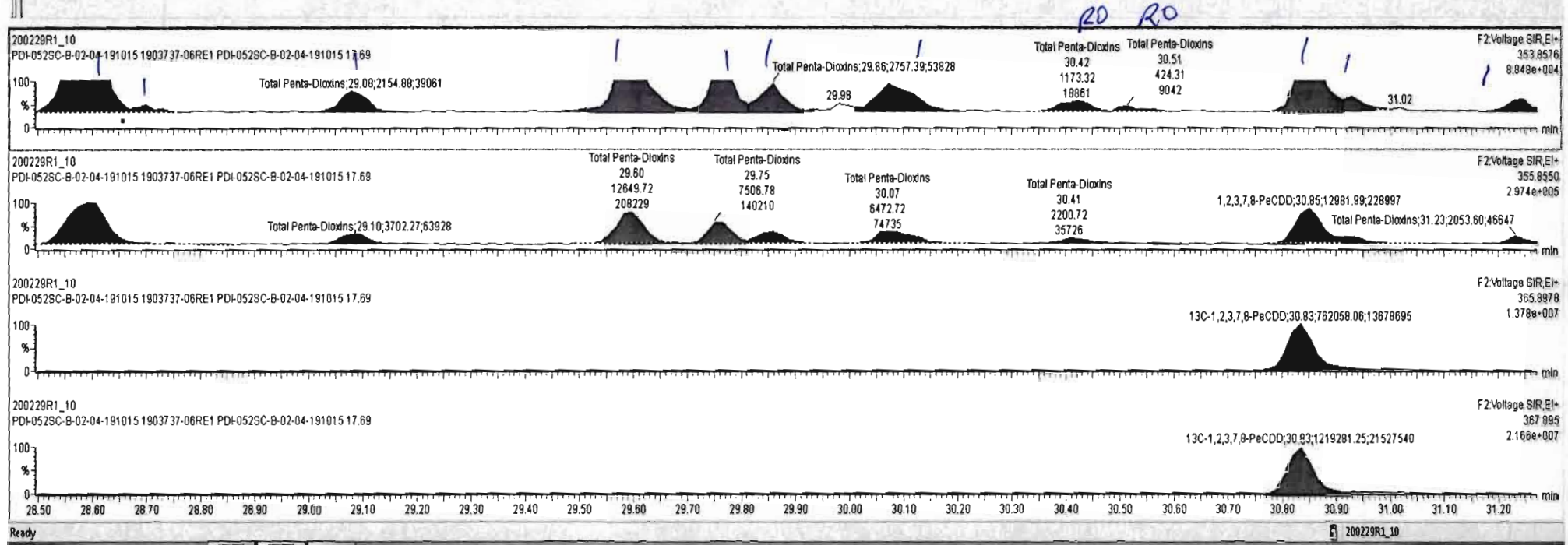
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200229R1_10 - 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69 - PDI-052SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.048	24.62		0.000		NO	8.296		0.0583	8.520
40	Total Penta-Dioxins				0.9723	10.048	29.96		0.000		NO	8.795		0.0660	12.84
41	Total Hexa-Dioxins				0.9211	10.048	33.63		0.000		NO	95.30		0.203	96.19
42	Total Hepta-Dioxins				0.9231	10.048	37.64		0.000		NO	799.8		1.04	799.8
43	Total Tetra-Furans				0.8020	10.048	23.61		0.000		NO	288.1		0.0918	287.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	29.61	1.360e4	2.213e4	0.630	0.61	NO	3.6915	0.00000
2	40 Total Penta-Dioxins	29.96	29.65	6.588e2	1.013e3	0.630	0.65	NO	0.17268	0.17268
3	40 Total Penta-Dioxins	29.96	29.08	2.155e3	3.702e3	0.630	0.58	NO	0.60517	0.60517
4	40 Total Penta-Dioxins	29.96	29.60	6.571e3	1.265e4	0.630	0.68	NO	2.1925	2.1925
5	40 Total Penta-Dioxins	29.96	29.77	4.859e3	7.507e3	0.630	0.62	NO	1.2569	1.2569
6	40 Total Penta-Dioxins	29.96	29.66	2.757e3	4.053e3	0.630	0.68	NO	0.70364	0.70364
7	40 Total Penta-Dioxins	29.96	30.07	4.200e3	6.473e3	0.630	0.65	NO	1.1027	1.1027
8	40 Total Penta-Dioxins	29.96	30.42	1.173e3	2.201e3	0.630	0.53	YES	0.31366	0.00000
9	40 Total Penta-Dioxins	29.96	30.51	4.243e2	2.607e2	0.630	1.63	YES	0.043900	0.00000
10	2 1,2,3,7,8-PeCDD	30.88	30.85	7.766e3	1.298e4	0.630	0.60	NO	2.1437	2.1437
11	40 Total Penta-Dioxins	29.96	30.93	1.082e3	1.721e3	0.630	0.63	NO	0.28959	0.28959
12	40 Total Penta-Dioxins	29.96	31.25	1.120e3	2.054e3	0.630	0.55	NO	0.32786	0.32786

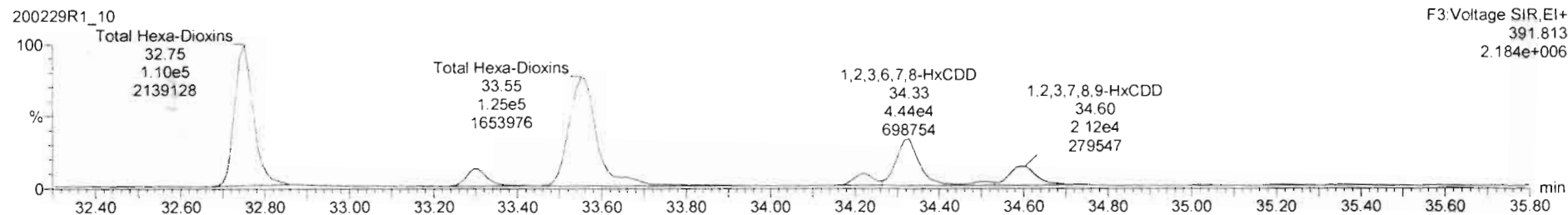
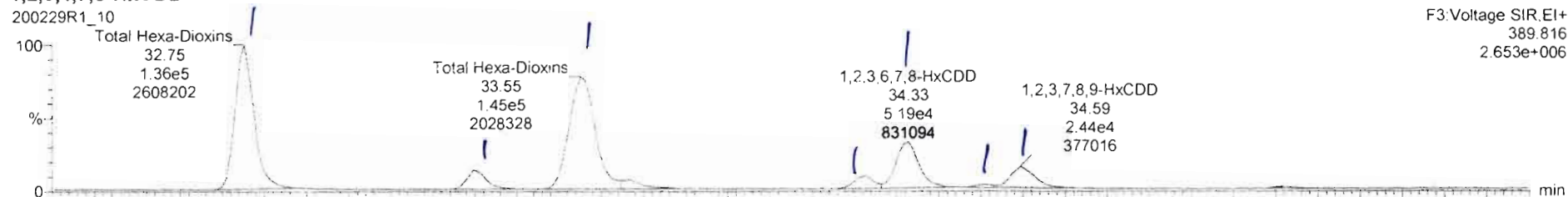


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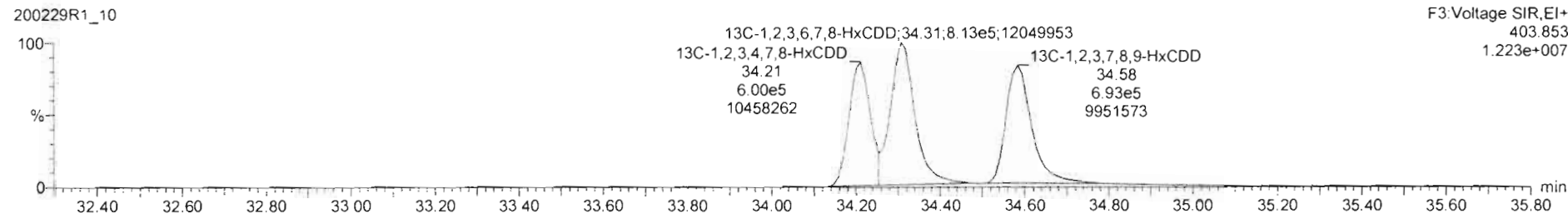
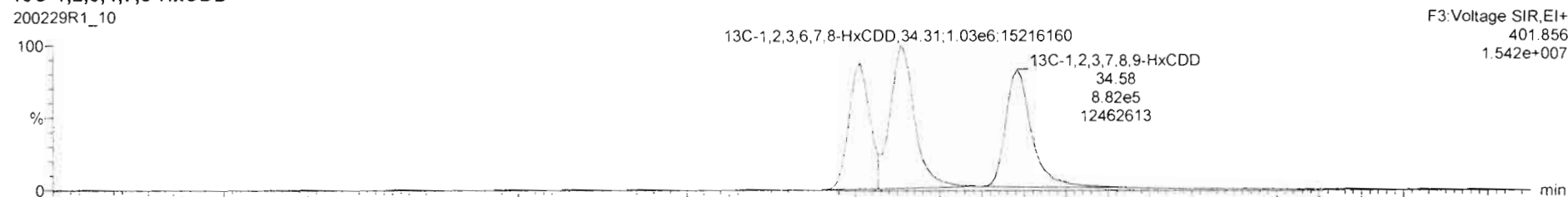
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Name: 200229R1_10, Date: 29-Feb-2020, Time: 18:21:18, ID: 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

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



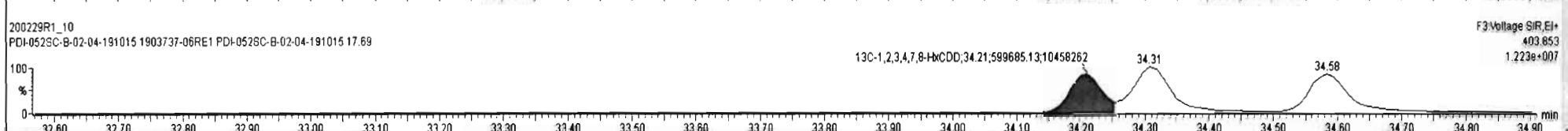
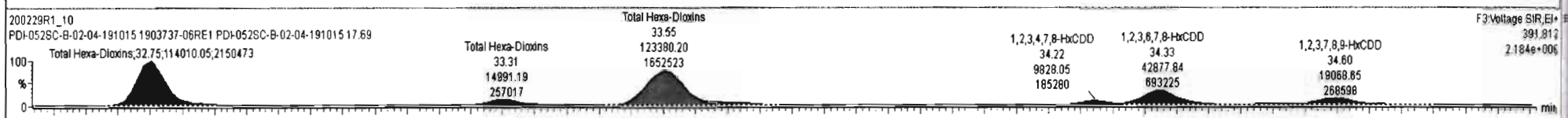
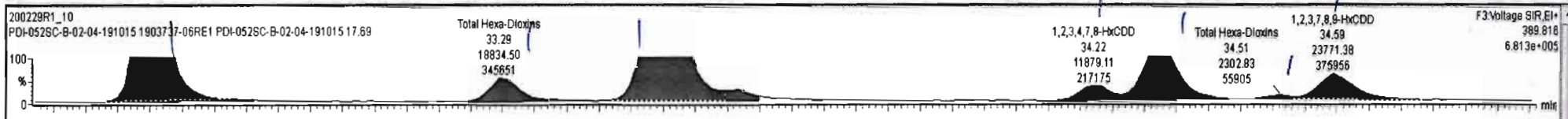
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200229R1_10 - 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69 - PDI-052SC-B-02-04-191015

#	Name	Resp	RA	rly	RfF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9861	10.048	24.62		0.000		NO	8.296		0.0583	8.520
40	Total Penta-Dioxins				0.9723	10.048	29.96		0.000		NO	8.795		0.0660	12.84
41	Total Hexa-Dioxins				0.9211	10.048	33.63		0.000		NO	97.17		0.233	97.17
42	Total Hepta-Dioxins				0.9231	10.048	37.64		0.000		NO	799.8		1.04	799.8
43	Total Tetra-Furans				0.8020	10.048	23.81		0.000		NO	288.1		0.0918	297.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	rly	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.75	1.402e5	1.140e5	1.240	1.23	NO	34.546	34.546
2	41 Total Hexa-Dioxins	33.63	33.29	1.883e4	1.499e4	1.240	1.26	NO	4.5963	4.5963
3	41 Total Hexa-Dioxins	33.63	33.55	1.521e5	1.234e5	1.240	1.23	NO	37.431	37.431
4	3 2,3,4,7,8-HxCDD	34.22	34.22	1.188e4	9.828e3	1.240	1.21	NO	2.9785	2.9785
5	4 1,2,3,6,7,8-HxCDD	34.31	34.33	5.193e4	4.288e4	1.240	1.21	NO	11.127	11.127
6	41 Total Hexa-Dioxins	33.63	34.51	2.303e3	2.057e3	1.240	1.12	NO	0.59239	0.59239
7	5 1,2,3,7,8,9-HxCDD	34.62	34.59	2.377e4	1.907e4	1.240	1.25	NO	5.8987	5.8987



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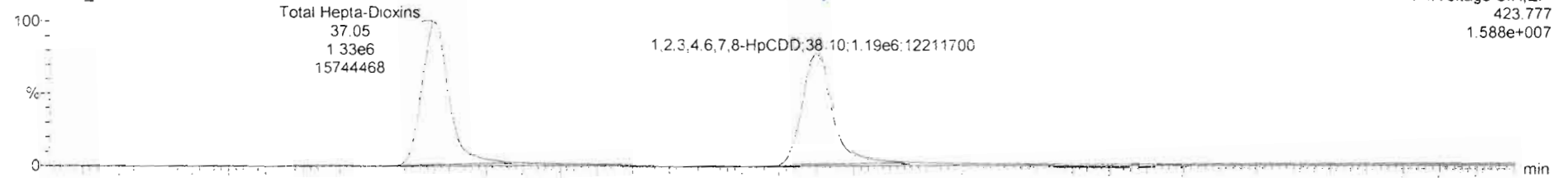
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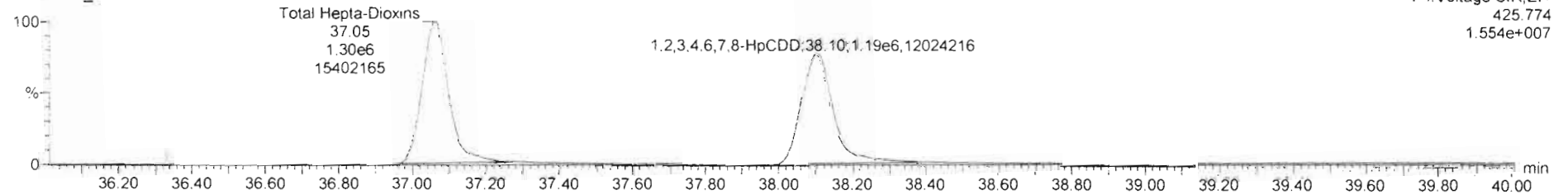
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1,2,3,4,6,7,8-HpCDD

200229R1_10

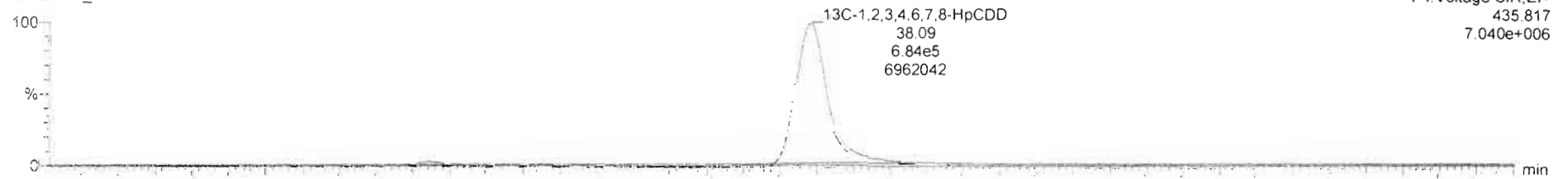


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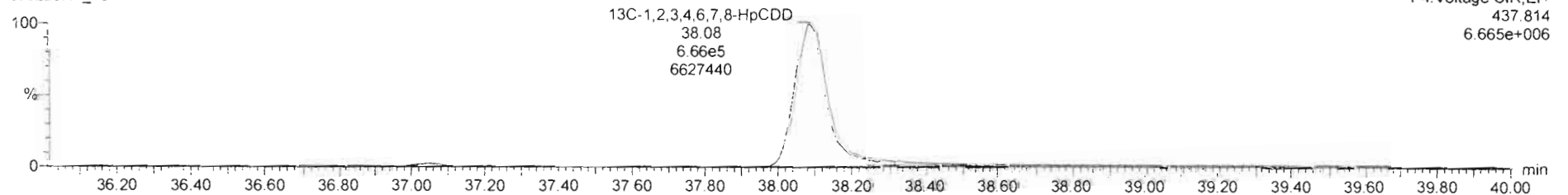


13C-1,2,3,4,6,7,8-HpCDD

200229R1_10



200229R1_10



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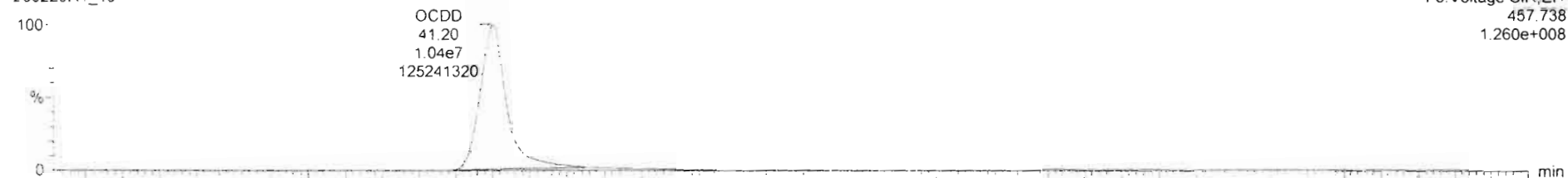
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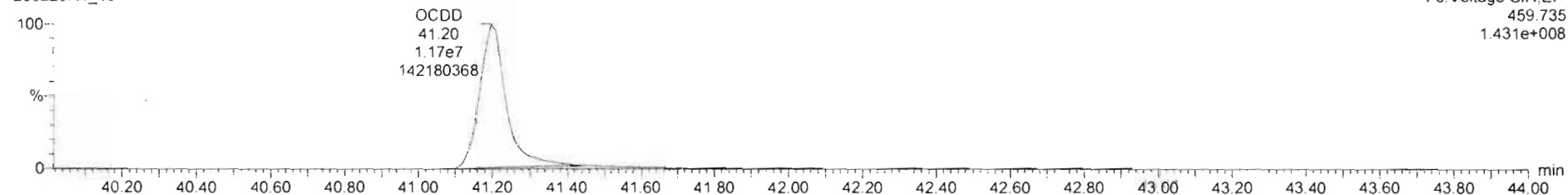
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OCDD

200229R1_10



200229R1_10

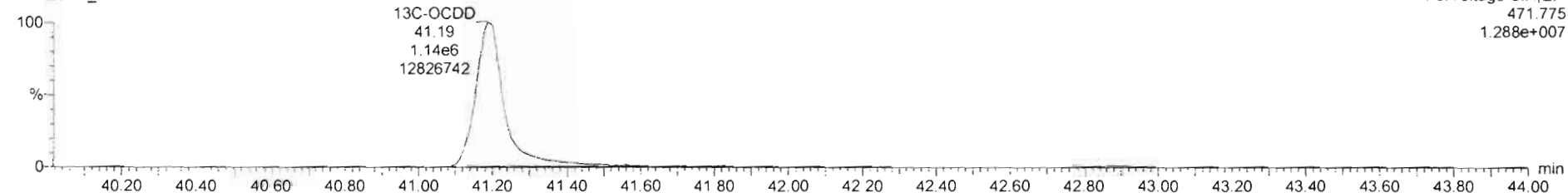


13C-OCDD

200229R1_10



200229R1_10

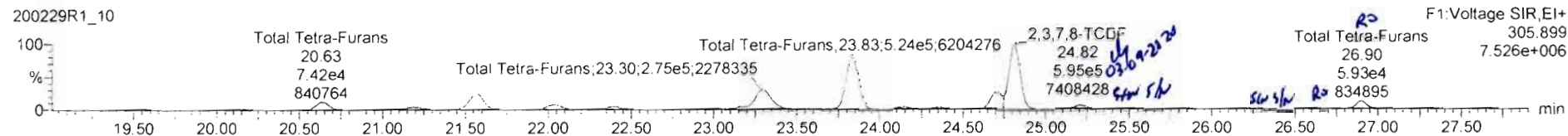
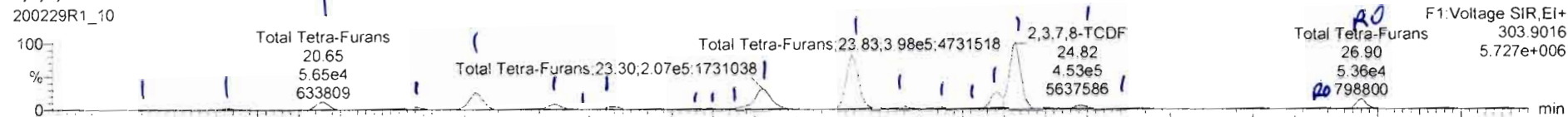


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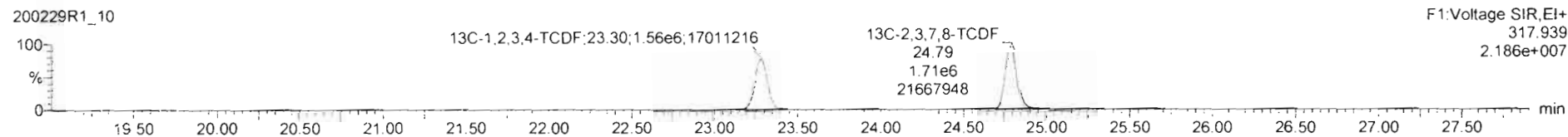
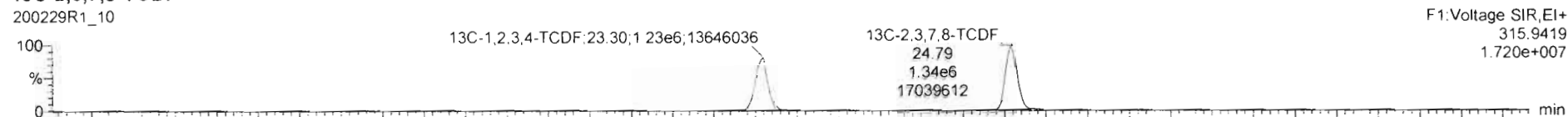
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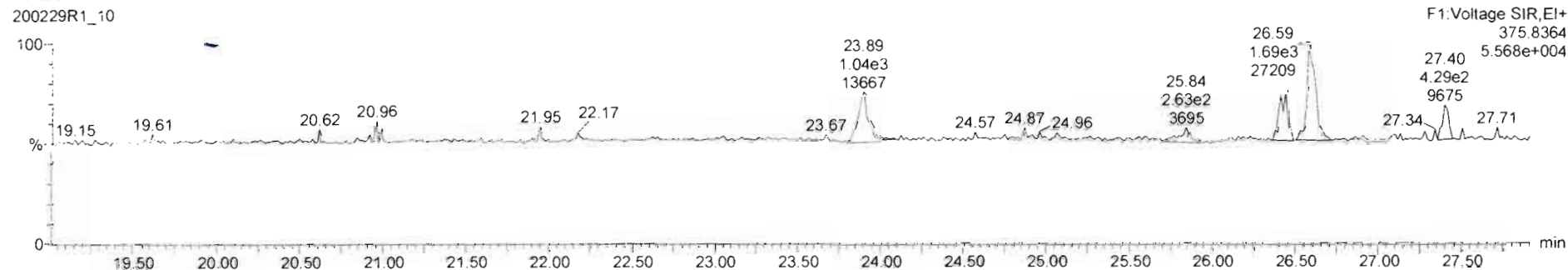
2,3,7,8-TCDF



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

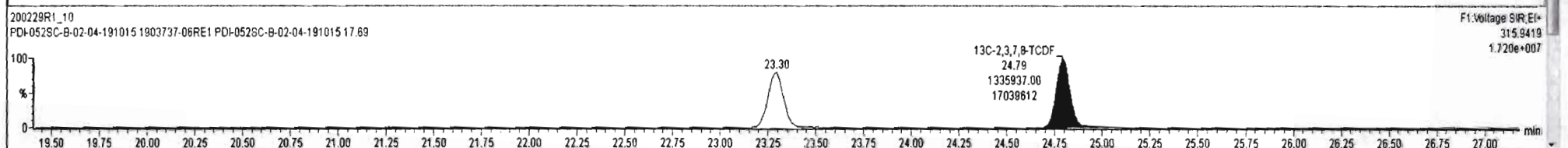
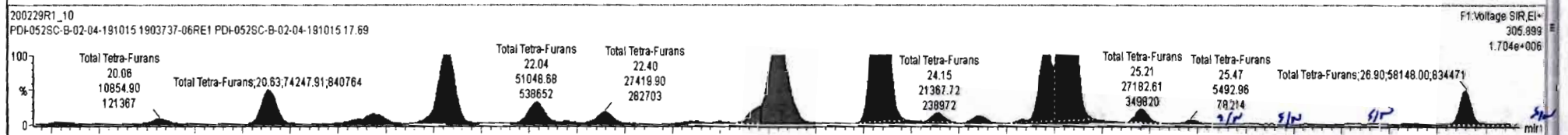
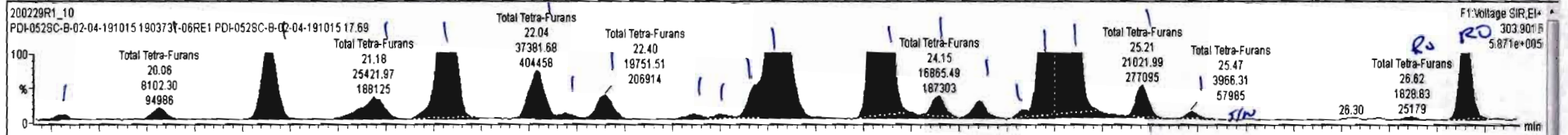


DPE1



#	Name	Resp	RA	n/y	RRF	wt/wt	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9231	10.048	37.64		0.000		NO	799.8		1.04	799.8
43	Total Tetra-Furans				0.8020	10.048	23.81		0.000		NO	254.3		0.0810	302.8

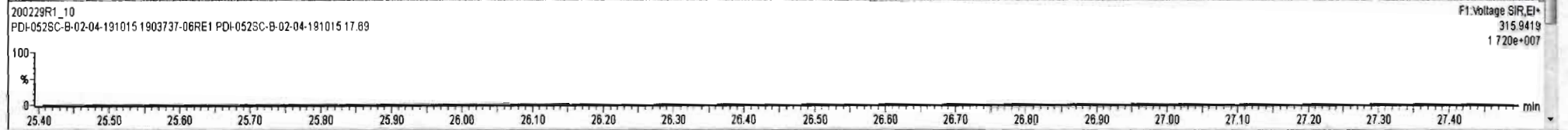
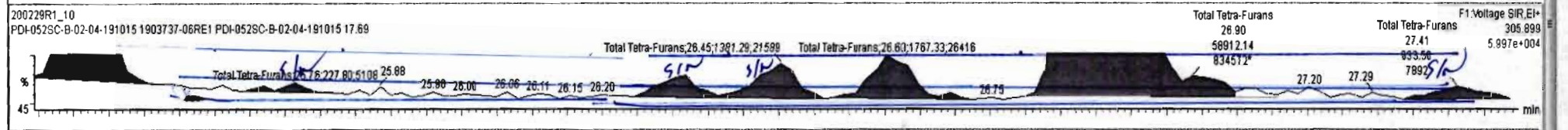
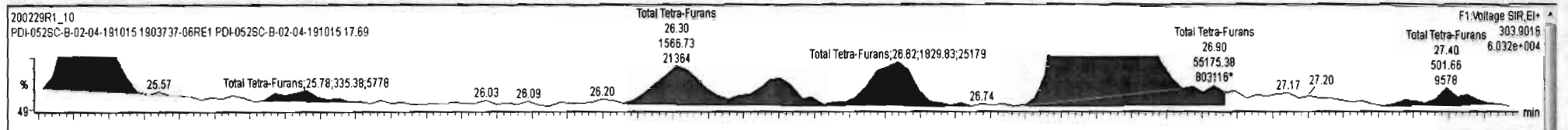
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.81	19.57	3.097e3	3.922e3	0.770	0.79	NO	0.57209	0.57209
2	43 Total Tetra-Furans	23.81	20.06	8.102e3	1.085e4	0.770	0.75	NO	1.5453	1.5453
3	43 Total Tetra-Furans	23.81	20.65	5.650e4	7.425e4	0.770	0.76	NO	10.658	10.658
4	43 Total Tetra-Furans	23.81	21.18	2.542e4	3.327e4	0.770	0.76	NO	4.7844	4.7844
5	43 Total Tetra-Furans	23.81	21.57	1.406e5	1.844e5	0.770	0.76	NO	26.491	26.491
6	43 Total Tetra-Furans	23.81	22.04	3.738e4	5.105e4	0.770	0.73	NO	7.2084	7.2084
7	43 Total Tetra-Furans	23.81	22.19	3.587e3	4.459e3	0.770	0.80	NO	0.65590	0.65590
8	43 Total Tetra-Furans	23.81	22.40	1.975e4	2.742e4	0.770	0.72	NO	3.8452	3.8452
9	43 Total Tetra-Furans	23.81	22.86	3.469e3	4.764e3	0.770	0.73	NO	0.67106	0.67106
10	43 Total Tetra-Furans	23.81	23.00	3.110e3	3.862e3	0.770	0.85	NO	0.55202	0.55202
11	43 Total Tetra-Furans	23.81	23.21	1.895e4	2.605e4	0.770	0.73	NO	3.6889	3.6889
12	43 Total Tetra-Furans	23.81	23.30	1.814e5	2.514e5	0.770	0.76	NO	36.096	36.096
13	43 Total Tetra-Furans	23.81	23.83	4.074e5	5.354e5	0.770	0.76	NO	76.855	76.855
14	43 Total Tetra-Furans	23.81	24.15	1.687e4	2.137e4	0.770	0.78	NO	3.1166	3.1166
15	43 Total Tetra-Furans	23.81	24.36	1.195e4	1.583e4	0.770	0.76	NO	2.2648	2.2648
16	43 Total Tetra-Furans	23.81	24.58	3.053e3	3.806e3	0.770	0.80	NO	0.55909	0.55909
17	43 Total Tetra-Furans	23.81	24.70	1.158e5	1.518e5	0.770	0.78	NO	21.807	21.807
18	13C-2,3,7,8-TCDF	24.82	24.82	4.682e5	6.144e5	0.770	0.76	NO	88.247	88.247
19	43 Total Tetra-Furans	23.81	25.21	2.102e4	2.718e4	0.770	0.77	NO	3.9294	3.9294
20	43 Total Tetra-Furans	23.81	25.47	3.966e3	5.493e3	0.770	0.72	NO	0.77107	0.77107
21	43 Total Tetra-Furans	23.81	26.62	1.830e3	1.767e3	0.770	1.04	YES	0.25499	0.00000
22	43 Total Tetra-Furans	23.81	26.90	5.428e4	5.815e4	0.770	0.93	YES	8.3897	0.00000



200229R1_10 - 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69 - PDI-052SC-B-02-04-191015

#	Name	Resp	RA	n/y	RPF	wtAVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
42	Total Hesta-Dioxins				0.9231	10.048	37.54		0.000		NO	799.8		1.04	799.8
43	Total Tetra-Furans				0.8029	10.048	23.81		0.000		NO	268.1		0.0918	267.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.81	19.57	3.087e3	3.922e3	0.770	0.79	NO	0.57209	0.57209
2	Total Tetra-Furans	23.81	20.08	8.102e3	1.085e4	0.770	0.75	NO	1.5453	1.5453
3	Total Tetra-Furans	23.81	20.65	5.850e4	7.425e4	0.770	0.76	NO	10.858	10.858
4	Total Tetra-Furans	23.81	21.18	2.542e4	3.327e4	0.770	0.76	NO	4.7844	4.7844
5	Total Tetra-Furans	23.81	21.57	1.377e5	1.844e5	0.770	0.75	NO	26.262	26.262
6	Total Tetra-Furans	23.81	22.04	3.738e4	5.105e4	0.770	0.73	NO	7.2084	7.2084
7	Total Tetra-Furans	23.81	22.19	3.587e3	4.459e3	0.770	0.80	NO	0.65590	0.65590
8	Total Tetra-Furans	23.81	22.40	1.975e4	2.742e4	0.770	0.72	NO	3.8452	3.8452
9	Total Tetra-Furans	23.81	22.86	3.469e3	4.764e3	0.770	0.73	NO	0.67108	0.67108
10	Total Tetra-Furans	23.81	23.00	2.894e3	3.662e3	0.770	0.79	NO	0.53446	0.53446
11	Total Tetra-Furans	23.81	23.30	2.069e5	2.748e5	0.770	0.75	NO	39.273	39.273
12	Total Tetra-Furans	23.81	23.83	3.994e5	5.237e5	0.770	0.76	NO	75.186	75.186
13	Total Tetra-Furans	23.81	24.15	1.348e4	1.788e4	0.770	0.75	NO	2.5548	2.5548
14	Total Tetra-Furans	23.81	24.36	1.195e4	1.583e4	0.770	0.76	NO	2.2648	2.2648
15	Total Tetra-Furans	23.81	24.58	2.677e3	3.477e3	0.770	0.77	NO	0.50167	0.50167
16	Total Tetra-Furans	23.81	24.70	1.128e5	1.482e5	0.770	0.76	NO	21.279	21.279
17	2,3,7,8-TCDF	24.82	24.82	4.530e5	5.951e5	0.770	0.76	NO	85.435	85.435
18	Total Tetra-Furans	23.81	25.21	2.024e4	2.656e4	0.770	0.76	NO	3.8149	3.8149
19	Total Tetra-Furans	23.81	25.47	4.045e3	5.493e3	0.770	0.74	NO	0.77748	0.77748
20	Total Tetra-Furans	23.81	25.78	3.354e2	2.278e2	0.770	1.47	YES	0.032668	0.00000
21	Total Tetra-Furans	23.81	26.30	1.567e3	7.996e2	0.770	1.96	YES	0.11537	0.00000
22	Total Tetra-Furans	23.81	26.45	1.082e3	1.381e3	0.770	0.78	NO	0.20078	0.20078
23	Total Tetra-Furans	23.81	26.62	1.830e3	1.767e3	0.770	1.04	YES	0.25499	0.00000
24	Total Tetra-Furans	23.81	26.90	5.359e4	5.927e4	0.770	0.90	YES	8.5517	0.00000
25	Total Tetra-Furans	23.81	27.40	5.017e2	6.336e2	0.770	0.79	NO	0.082538	0.082538



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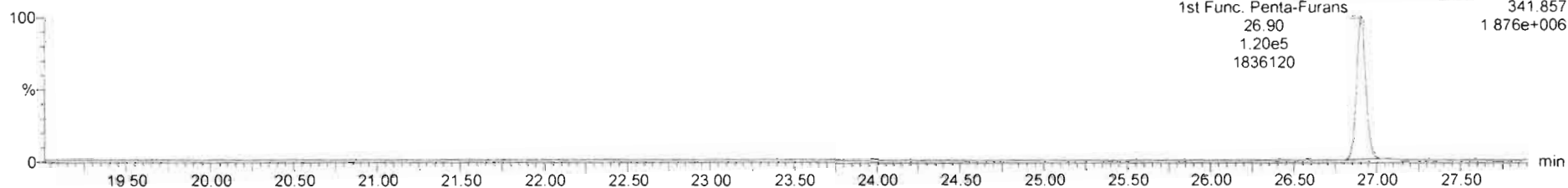
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1st Func. Penta-Furans

200229R1_10

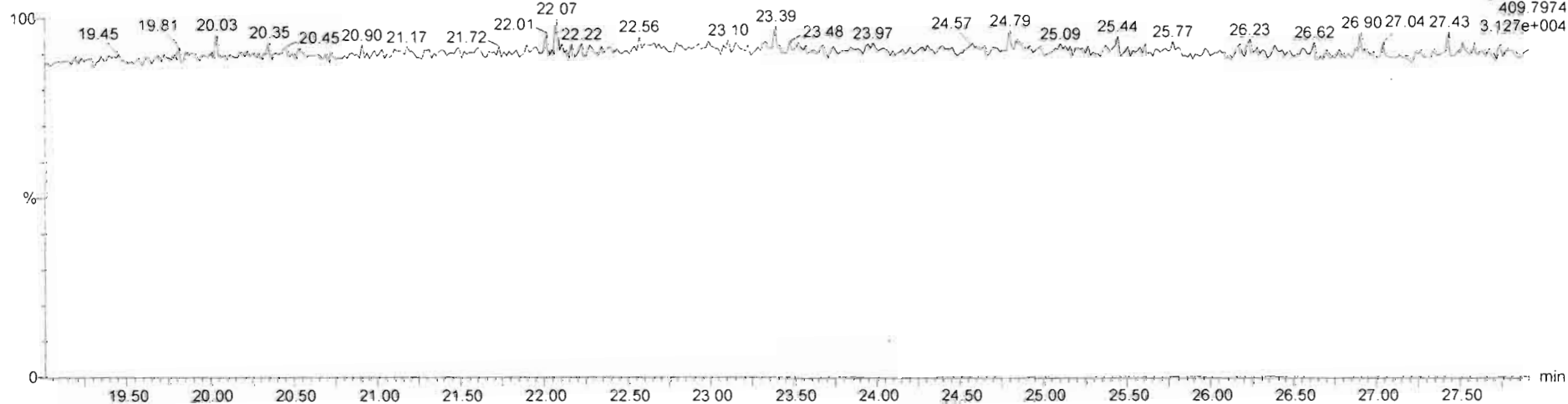


200229R1_10



DPE6

200229R1_10



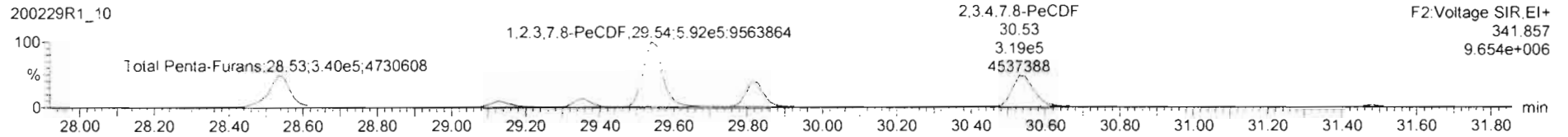
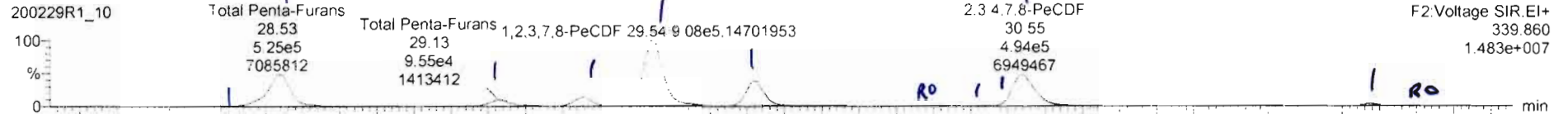
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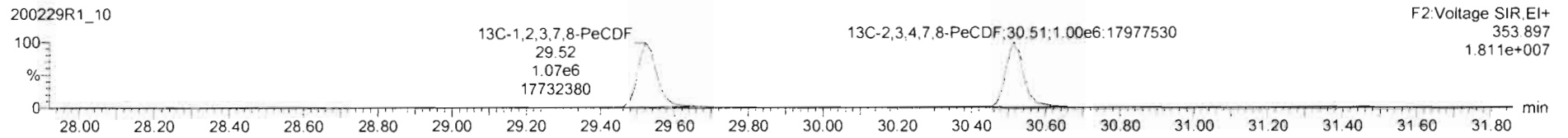
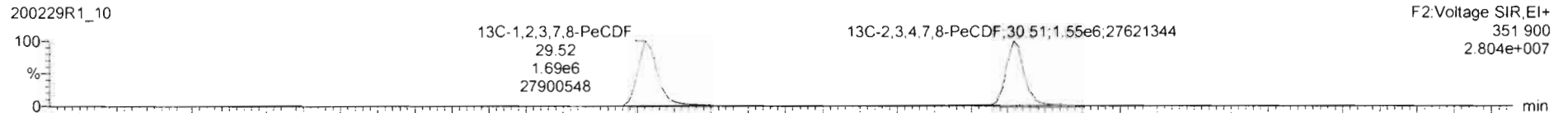
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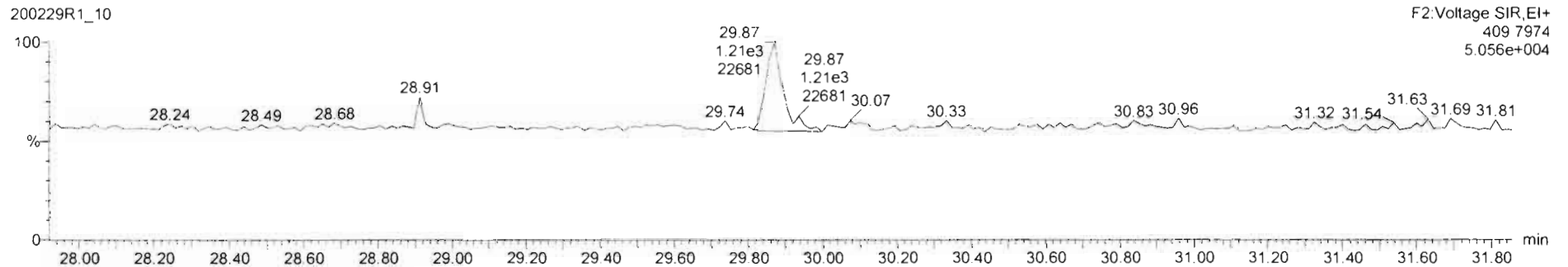
1,2,3,7,8-PeCDF



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



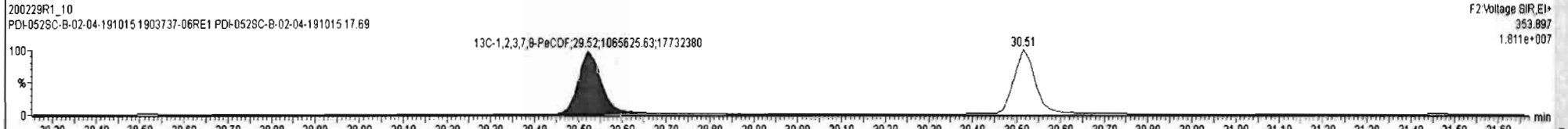
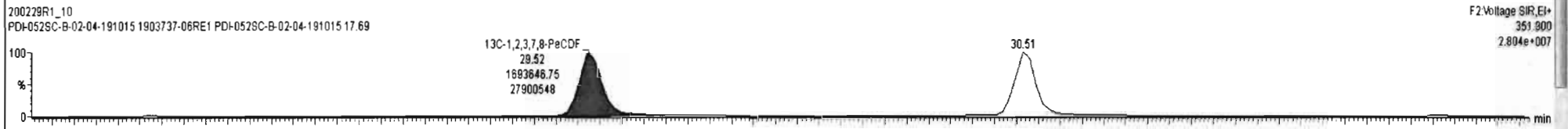
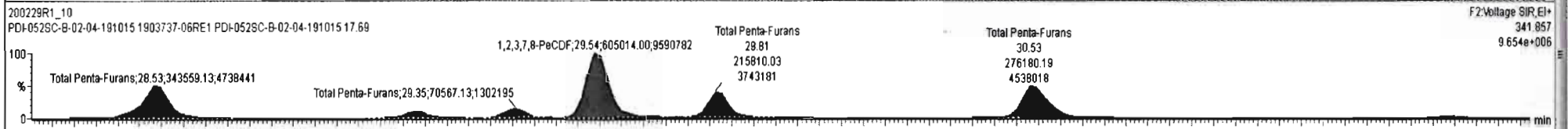
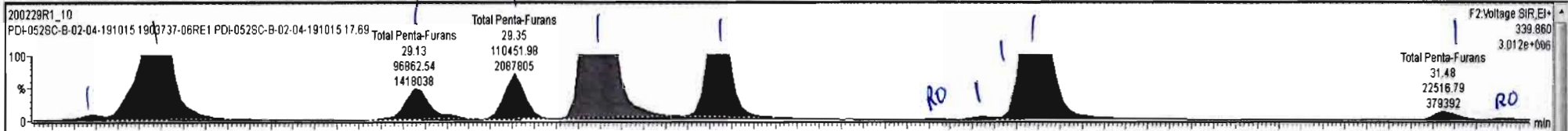
DPE2



200229R1_10 - 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69 - PDI-052SC-B-02-04-191015

#	Name	Resp	RA	n/y	Rf ²	wtAvl	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	16.048	29.27		0.000		NO	340.5		0.218	341.0
46	Total Hexa-Furans				0.8982	10.048	33.56		0.000		NO	512.0		0.201	512.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	29.27	28.39	1.388e4	9.175e3	1.550	1.51	NO	1.9038	1.9038
2	Total Penta-Furans	29.27	28.53	5.304e5	3.436e5	1.550	1.54	NO	72.178	72.178
3	Total Penta-Furans	29.27	29.13	9.688e4	6.327e4	1.550	1.53	NO	13.225	13.225
4	Total Penta-Furans	29.27	29.35	1.105e5	7.057e4	1.550	1.57	NO	14.949	14.949
5	1,2,3,7,8-PeCDF	29.54	29.54	9.289e5	6.050e5	1.550	1.53	NO	121.79	121.79
6	Total Penta-Furans	29.27	29.81	3.286e5	2.158e5	1.550	1.52	NO	44.959	44.959
7	Total Penta-Furans	29.27	30.32	1.639e3	7.747e2	1.550	2.11	YES	0.16315	0.00000
8	Total Penta-Furans	29.27	30.42	5.101e3	2.939e3	1.550	1.74	NO	0.66389	0.66389
9	2,3,4,7,8-PeCDF	30.51	30.51	6.808e4	4.622e4	1.550	1.47	NO	9.3646	9.3646
10	Total Penta-Furans	29.27	30.55	4.316e5	2.762e5	1.550	1.56	NO	58.451	58.451
11	Total Penta-Furans	29.27	31.48	2.252e4	1.438e4	1.550	1.57	NO	3.0474	3.0474
12	Total Penta-Furans	29.27	31.61	3.652e3	1.654e3	1.550	2.21	YES	0.34830	0.00000

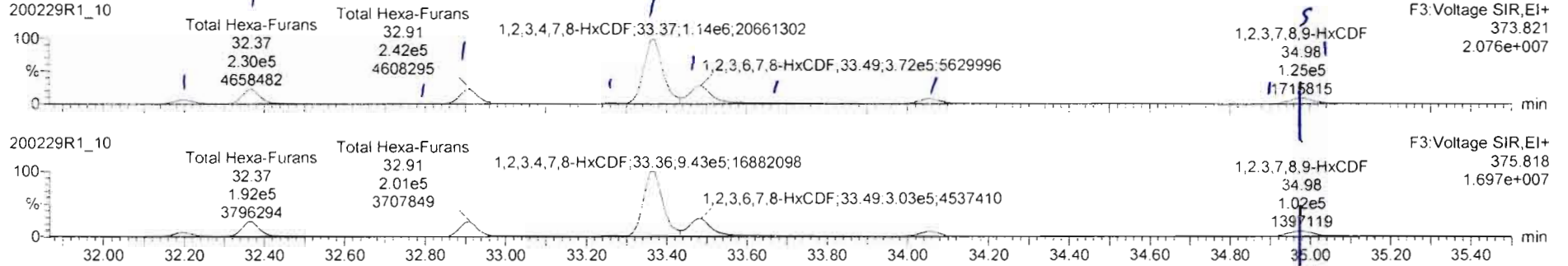


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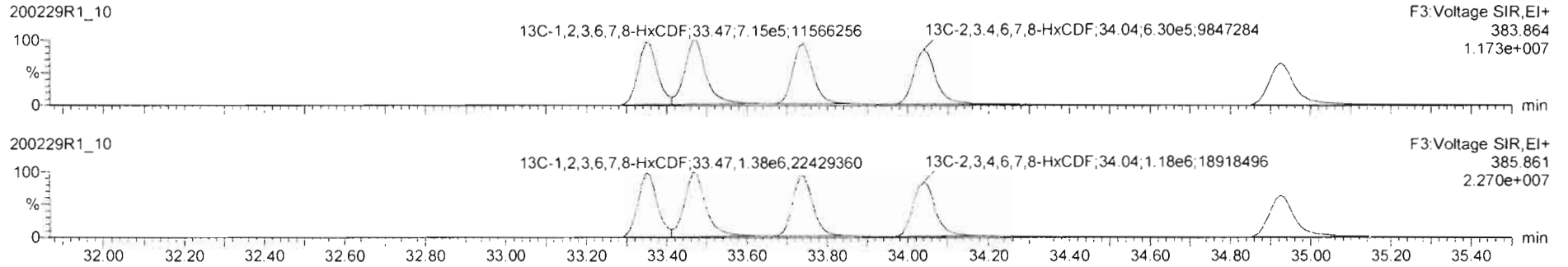
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Name: 200229R1_10, Date: 29-Feb-2020, Time: 18:21:18, ID: 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

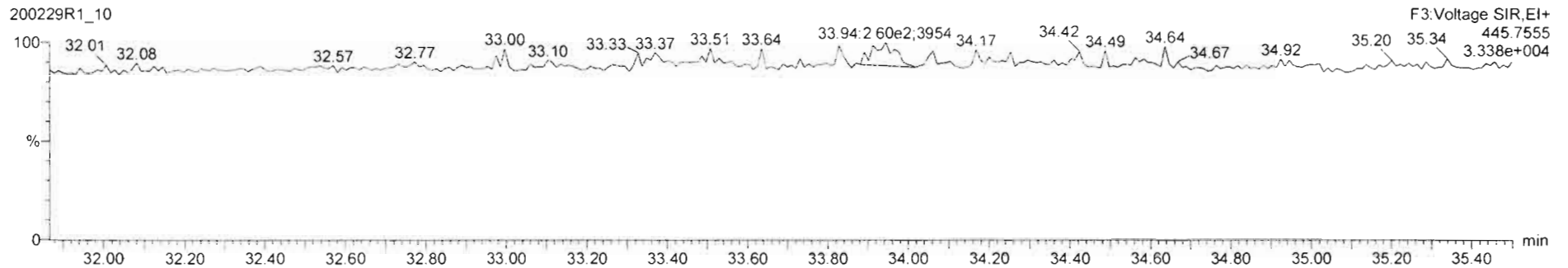
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13C-1,2,3,4,7,8-HxCDF



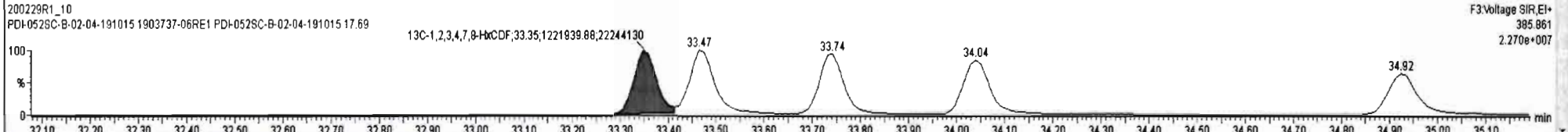
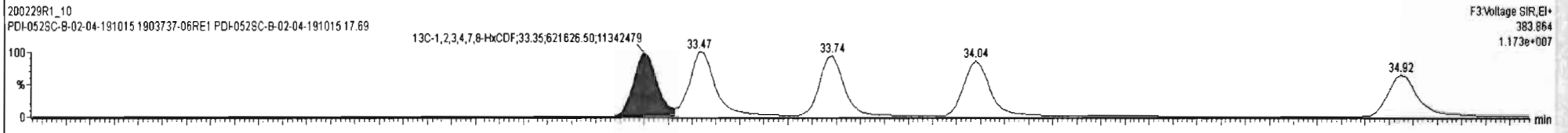
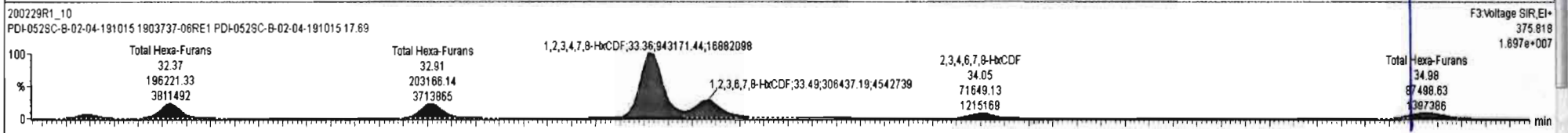
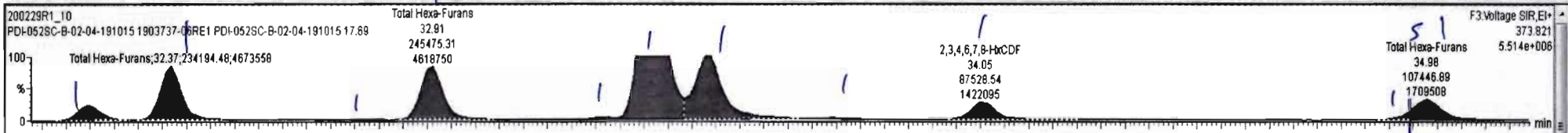
DPE3



200229R1_10 - 1903737-06RE1 PDI-0529C-B-02-04-191015 17:69 - PDI-0529C-B-02-04-191015

#	Name	Resp	RA	n/y	RRT	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.048	29.27		0.000		NO	340.5		0.218	341.0
46	Total Hexa-Furans				0.8982	10.048	33.56		0.000		NO	509.9		0.281	509.9
47	Total Hepta-Furans				0.8814	10.048	37.99		0.000		NO	414.4		0.272	414.4

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.56	32.20	6.729e4	5.636e4	1.240	1.18	NO	14.880	14.880
2	Total Hexa-Furans	33.56	32.37	2.342e5	1.962e5	1.240	1.19	NO	51.796	51.796
3	Total Hexa-Furans	33.56	32.72	4.292e3	3.462e3	1.240	1.24	NO	0.93315	0.93315
4	Total Hexa-Furans	33.56	32.91	2.455e5	2.032e5	1.240	1.21	NO	53.989	53.989
5	Total Hexa-Furans	33.56	33.26	1.111e4	8.248e3	1.240	1.35	NO	2.3299	2.3299
6	1,2,3,4,7,8-HxCDF	33.35	33.37	1.138e6	9.432e5	1.240	1.21	NO	260.62	260.62
7	1,2,3,6,7,8-HxCDF	33.49	33.49	3.758e5	3.064e5	1.240	1.23	NO	76.885	76.885
8	Total Hexa-Furans	33.56	33.74	4.367e3	3.257e3	1.240	1.34	NO	0.91747	0.91747
9	1,2,3,4,6,7,8-HxCDF	34.08	34.05	8.753e4	7.185e4	1.240	1.22	NO	19.482	19.482
10	1,2,3,7,8,9-HxCDF	34.82	34.85	1.708e4	1.482e4	1.240	1.15	NO	4.6025	4.6025
11	Total Hexa-Furans	33.56	34.98	1.074e5	8.750e4	1.240	1.23	NO	23.460	23.460



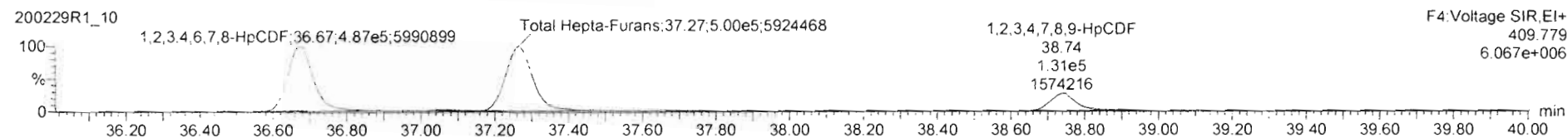
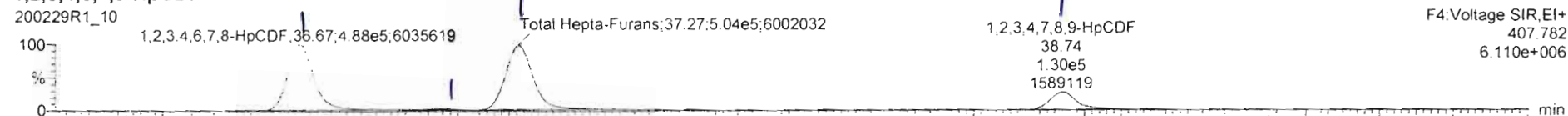
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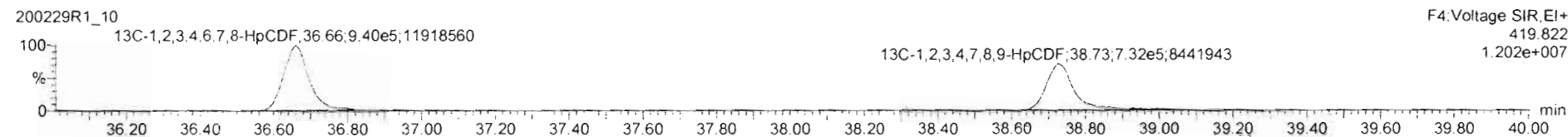
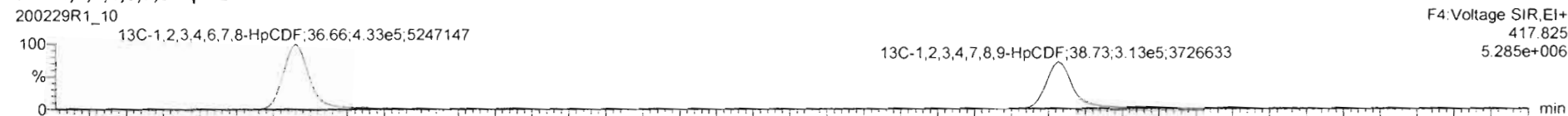
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Name: 200229R1_10, Date: 29-Feb-2020, Time: 18:21:18, ID: 1903737-06RE1 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

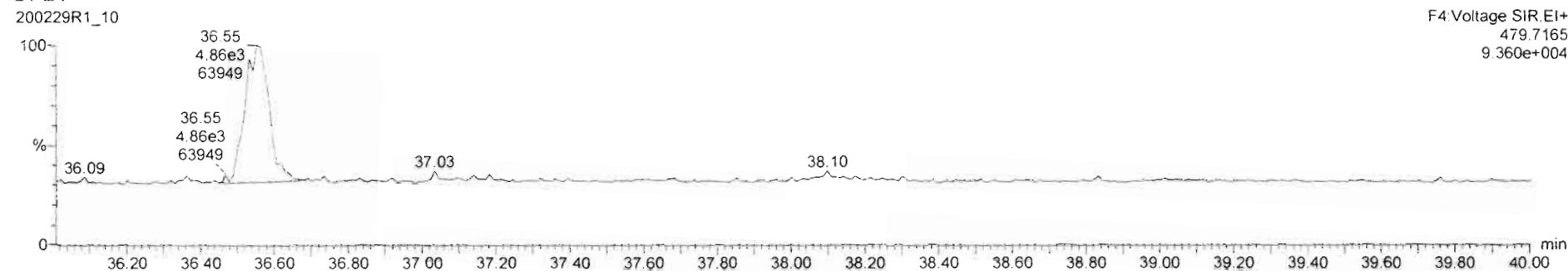
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13C-1,2,3,4,6,7,8-HpCDF



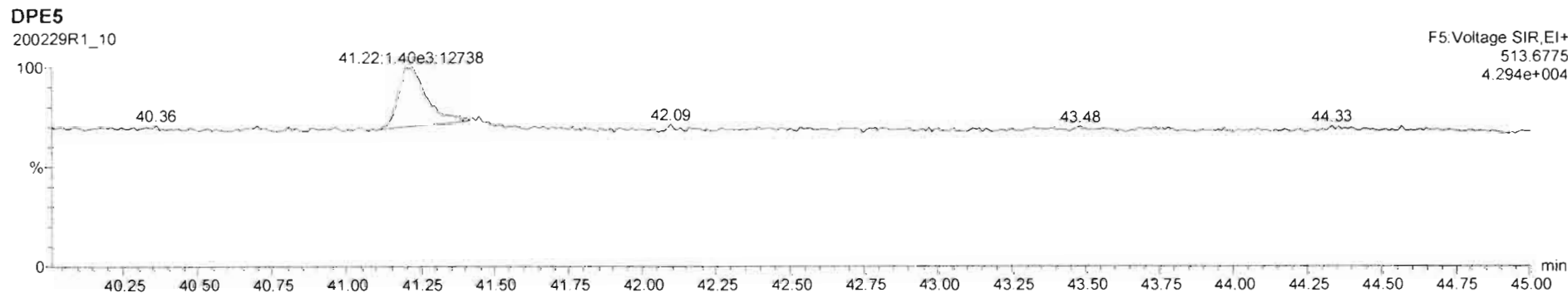
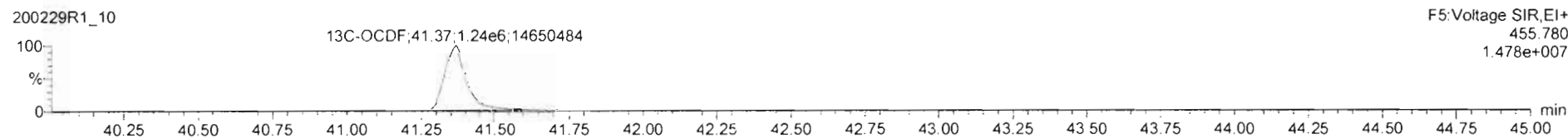
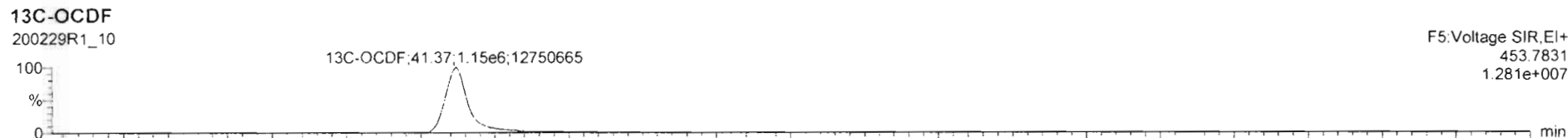
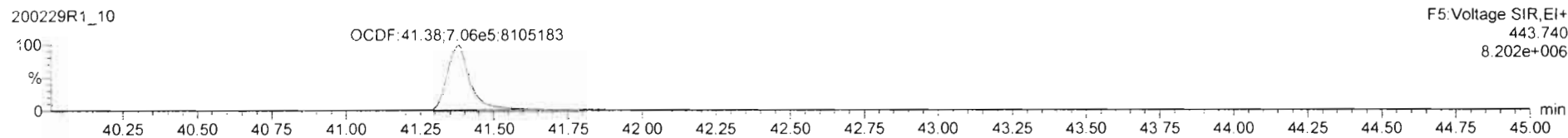
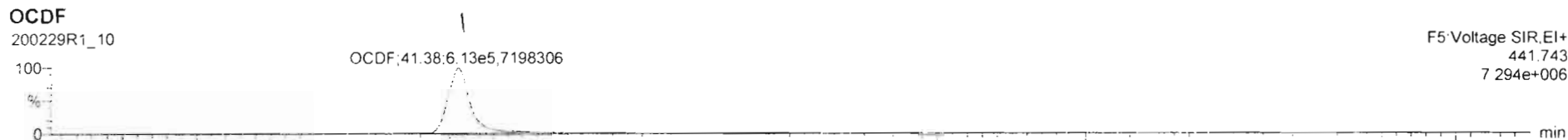
DPE4



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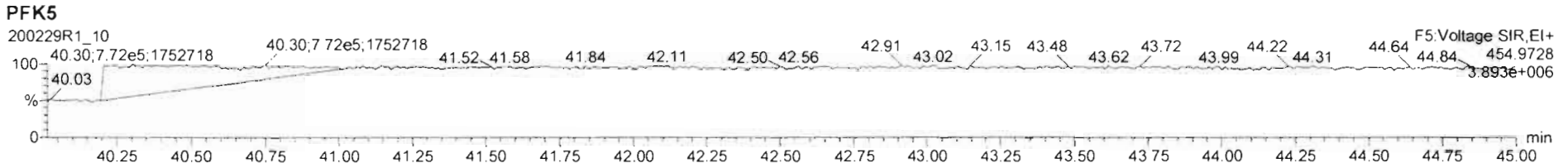
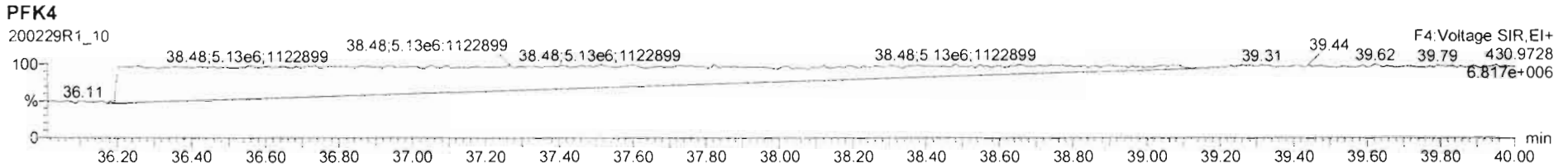
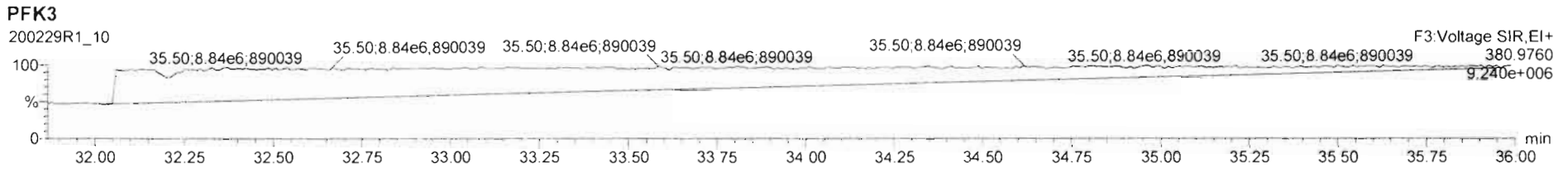
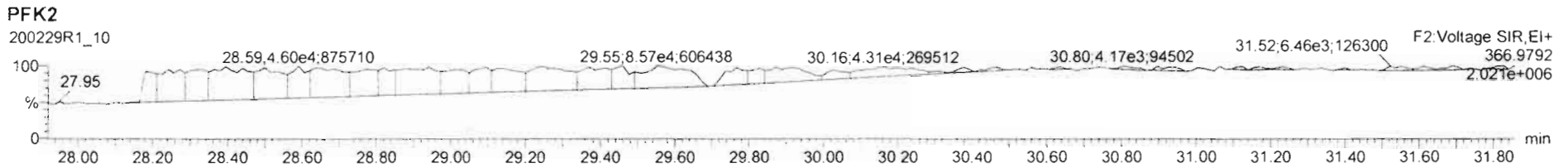
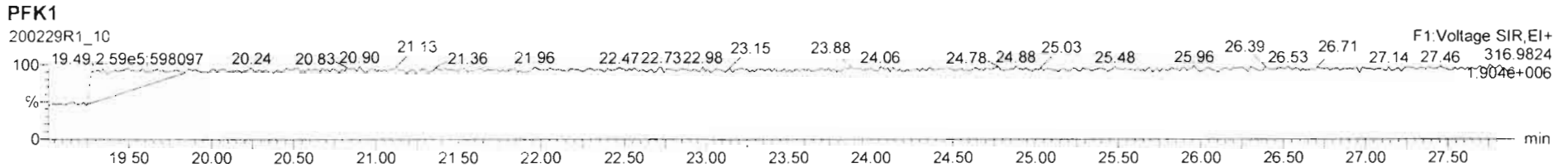
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Dataset: U:\VG12.PRO\Results\200229R1\200229R1-11a.qld

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Printed: Wednesday, March 18, 2020 11:01:57 Pacific Daylight Time

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Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09
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07/03/19/2020

Name: 200229R1_11, Date: 29-Feb-2020, Time: 19:08:42, ID: 1903737-07RE1 PDI-052SC-B-04-06-191015 16.92, Description: PDI-052SC-B-04-06-191015

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.38e4	2.58e6	0.696	NO	10.01	25.78	25.80	1.00	1.00	NO	1.0795		0.053	1.0795
2	2 1,2,3,7,8-PeCDD	1.58e4	2.11e6	0.619	NO	10.01	30.87	30.86	1.00	1.00	NO	1.5423		0.088	1.5423
3	3 1,2,3,4,7,8-HxCDD	1.10e4	1.43e6	1.261	NO	10.01	34.24	34.24	1.00	1.00	NO	1.4432		0.183	1.4432
4	4 1,2,3,6,7,8-HxCDD	8.63e4	1.89e6	1.238	NO	10.01	34.33	34.35	1.00	1.00	NO	9.8980		0.196	9.8980
5	5 1,2,3,7,8,9-HxCDD	3.23e4	1.64e6	1.209	NO	10.01	34.64	34.62	1.00	1.00	NO	4.2913		0.216	4.2913
6	6 1,2,3,4,6,7,8-HpCDD	1.69e6	7.79e5	1.020	NO	10.01	38.13	38.14	1.00	1.00	NO	468.80		1.209	468.80
7	7 OCDD	7.69e5	6.97e4	0.897	NO	10.01	41.24	41.25	1.00	1.00	NO	4523.6		10.507	4523.6
8	8 2,3,7,8-TCDF	6.69e5	3.13e6	0.761	NO	10.01	24.85	24.84	1.00	1.00	NO	53.200	(49.246)	0.137	53.200
9	9 1,2,3,7,8-PeCDF	7.95e5	2.56e6	1.535	NO	10.01	29.62	29.60	1.00	1.00	NO	68.373		0.359	68.373
10	10 2,3,4,7,8-PeCDF	1.34e5	2.70e6	1.479	NO	10.01	30.55	30.55	1.00	1.00	NO	10.391		0.224	10.391
11	11 1,2,3,4,7,8-HxCDF	9.35e5	1.97e6	1.206	NO	10.01	33.37	33.38	1.00	1.00	NO	109.79		0.179	109.79
12	12 1,2,3,6,7,8-HxCDF	2.95e5	2.14e6	1.241	NO	10.01	33.50	33.50	1.00	1.00	NO	32.704		0.197	32.704
13	13 2,3,4,6,7,8-HxCDF	8.44e4	1.80e6	1.153	NO	10.01	34.10	34.07	1.00	1.00	NO	10.456		0.236	10.456
14	14 1,2,3,7,8,9-HxCDF	2.52e4	1.72e6	1.174	NO	10.01	34.95	34.98	1.00	1.00	NO	3.3979		0.293	3.3979
15	15 1,2,3,4,6,7,8-HpCDF	5.22e5	1.25e6	1.018	NO	10.01	36.73	36.70	1.00	1.00	NO	98.040		0.535	98.040
16	16 1,2,3,4,7,8,9-HpCDF	9.43e4	9.54e5	1.039	NO	10.01	38.76	38.78	1.00	1.00	NO	20.141		0.662	20.141
17	17 OCDF	1.43e5	3.58e5	0.816	NO	10.01	41.41	41.42	1.00	1.00	NO	197.78		1.309	197.78
18	18 13C-2,3,7,8-TCDD	2.58e6	2.22e6	0.788	NO	10.01	25.74	25.75	1.03	1.03	NO	193.38	96.8	0.220	
19	19 13C-1,2,3,7,8-PeCDD	2.11e6	2.22e6	0.628	NO	10.01	30.88	30.85	1.23	1.23	NO	196.10	98.2	0.140	
20	20 13C-1,2,3,4,7,8-HxCDD	1.43e6	2.11e6	1.273	NO	10.01	34.23	34.23	1.01	1.01	NO	154.63	77.4	0.242	
21	21 13C-1,2,3,6,7,8-HxCDD	1.89e6	2.11e6	1.265	NO	10.01	34.33	34.33	1.02	1.02	NO	171.18	85.7	0.203	
22	22 13C-1,2,3,7,8,9-HxCDD	1.64e6	2.11e6	1.246	NO	10.01	34.63	34.60	1.03	1.03	NO	159.03	79.6	0.217	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.79e5	2.11e6	1.018	NO	10.01	38.21	38.12	1.13	1.13	NO	98.674	49.4	0.259	
24	24 13C-OCDD	6.97e4	2.11e6	0.898	NO	10.01	41.11	41.24	1.22	1.22	NO	9.3397	2.3	0.144	
25	25 13C-2,3,7,8-TCDF	3.13e6	3.00e6	0.781	NO	10.01	24.92	24.82	0.99	0.99	NO	195.53	97.9	0.249	
26	26 13C-1,2,3,7,8-PeCDF	2.56e6	3.00e6	1.554	NO	10.01	29.51	29.60	1.18	1.18	NO	170.02	85.1	0.378	
27	27 13C-2,3,4,7,8-PeCDF	2.70e6	3.00e6	1.571	NO	10.01	30.48	30.53	1.21	1.22	NO	186.66	93.4	0.394	
28	28 13C-1,2,3,4,7,8-HxCDF	1.97e6	2.11e6	0.515	NO	10.01	33.35	33.37	0.99	0.99	NO	178.03	89.1	0.378	
29	29 13C-1,2,3,6,7,8-HxCDF	2.14e6	2.11e6	0.516	NO	10.01	33.45	33.49	0.99	0.99	NO	170.21	85.2	0.333	
30	30 13C-2,3,4,6,7,8-HxCDF	1.80e6	2.11e6	0.525	NO	10.01	34.06	34.06	1.01	1.01	NO	159.51	79.8	0.372	
31	31 13C-1,2,3,7,8,9-HxCDF	1.72e6	2.11e6	0.546	NO	10.01	34.97	34.95	1.04	1.04	NO	177.01	88.6	0.430	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.25e6	2.11e6	0.443	NO	10.01	36.72	36.69	1.09	1.09	NO	154.38	77.3	0.410	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-11a.qld

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Printed: Wednesday, March 18, 2020 11:01:57 Pacific Daylight Time

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33	33 13C-1,2,3,4,7,8,9-HpCDF	9.54e5	2.11e6	0.432	NO	10.01	38.75	38.76	1.15	1.15	NO	163.61	81.9	0.569	
34	34 13C-OCDF	3.58e5	2.11e6	0.840	NO	10.01	41.35	41.41	1.23	1.23	NO	42.994	10.8	0.171	
35	35 37Cl-2,3,7,8-TCDD	9.03e5	2.22e6			10.01	25.77	25.78	1.03	1.03	NO	68.895	86.2	0.058	
36	36 13C-1,2,3,4-TCDD	2.22e6	2.22e6	0.793	NO	10.01	25.11	25.09	1.00	1.00	NO	199.77	100.0	0.263	
37	37 13C-1,2,3,4-TCDF	3.00e6	3.00e6	0.791	NO	10.01	23.37	23.31	1.00	1.00	NO	199.77	100.0	0.265	
38	38 13C-1,2,3,4,6,9-HxCDF	2.11e6	2.11e6	0.509	NO	10.01	33.71	33.75	1.00	1.00	NO	199.77	100.0	0.397	
39	39 Total Tetra-Dioxins		2.58e6			10.01	24.62		0.00		NO	12.257		0.053	12.330
40	40 Total Penta-Dioxins		2.11e6			10.01	29.96		0.00		NO	17.150		0.088	17.587
41	41 Total Hexa-Dioxins		0.00e0			10.01	33.63		0.00		NO	150.57		0.207	150.57
42	42 Total Hepta-Dioxins		7.79e5			10.01	37.64		0.00		NO	1639.0		1.209	1639.0
43	43 Total Tetra-Furans		3.13e6			10.01	23.61		0.00		NO	203.60		0.137	203.70
44	44 1st Func. Penta-Furans		0.00e0			10.01	27.09		0.00		NO	53.436		0.041	53.436
45	45 Total Penta-Furans		0.00e0			10.01	29.27		0.00		NO	188.31		0.295	223.14
46	46 Total Hexa-Furans		0.00e0			10.01	33.56		0.00		NO	276.53		0.215	276.53
47	47 Total Hepta-Furans		0.00e0			10.01	37.83		0.00		NO	351.13		0.633	351.13

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Last Altered: Wednesday, March 18, 2020 10:54:11 Pacific Daylight Time

Printed: Wednesday, March 18, 2020 11:01:57 Pacific Daylight Time

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

Name: 200229R1_11, Date: 29-Feb-2020, Time: 19:08:42

Tetra-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	21.65	0.791	NO	2.86e4	1.14e6	5.07	5.07
2	39 Total Tetra-Dioxins	22.05	0.775	NO	6.01e3	1.14e6	1.08	1.08
3	39 Total Tetra-Dioxins	22.55	0.789	NO	1.85e3	1.14e6	0.328	0.328
4	39 Total Tetra-Dioxins	23.49	0.706	NO	1.76e3	1.14e6	0.334	0.334
5	39 Total Tetra-Dioxins	23.76	0.777	NO	4.62e3	1.14e6	0.828	0.828
6	39 Total Tetra-Dioxins	24.00	0.770	NO	4.45e3	1.14e6	0.801	0.801
7	39 Total Tetra-Dioxins	24.22	0.885	NO	1.46e3	1.14e6	0.243	0.243
8	39 Total Tetra-Dioxins	24.51	0.728	NO	7.57e2	1.14e6	0.141	0.141
9	39 Total Tetra-Dioxins	24.69	0.720	NO	1.44e3	1.14e6	0.270	0.270
10	39 Total Tetra-Dioxins	25.05	0.725	NO	1.39e3	1.14e6	0.258	0.258
11	39 Total Tetra-Dioxins	25.21	0.711	NO	4.49e2	1.14e6	0.0845	0.0845
12	39 Total Tetra-Dioxins	25.50	0.790	NO	7.01e3	1.14e6	1.24	1.24
13	39 Total Tetra-Dioxins	25.62	0.942	YES	4.95e2	1.14e6	0.000	0.0728
14	1 2,3,7,8-TCDD	25.80	0.696	NO	5.66e3	1.14e6	1.08	1.08
15	39 Total Tetra-Dioxins	26.11	0.809	NO	1.70e3	1.14e6	0.298	0.298
16	39 Total Tetra-Dioxins	26.26	0.719	NO	3.58e2	1.14e6	0.0671	0.0671
17	39 Total Tetra-Dioxins	26.77	0.854	NO	7.90e2	1.14e6	0.134	0.134

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-11a.qld

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Name: 200229R1_11, Date: 29-Feb-2020, Time: 19:08:42

Penta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	28.62	0.629	NO	2.28e4	8.15e5	5.74	5.74
2	40 Total Penta-Dioxins	29.11	0.664	NO	4.35e3	8.15e5	1.06	1.06
3	40 Total Penta-Dioxins	29.68	0.647	NO	1.45e4	8.15e5	3.60	3.60
4	40 Total Penta-Dioxins	29.80	0.639	NO	5.30e3	8.15e5	1.32	1.32
5	40 Total Penta-Dioxins	29.90	0.674	NO	5.19e3	8.15e5	1.25	1.25
6	40 Total Penta-Dioxins	30.15	0.605	NO	6.34e3	8.15e5	1.64	1.64
7	40 Total Penta-Dioxins	30.42	0.597	NO	1.95e3	8.15e5	0.509	0.509
8	2 1,2,3,7,8-PeCDD	30.86	0.619	NO	6.06e3	8.15e5	1.54	1.54
9	40 Total Penta-Dioxins	30.94	0.764	YES	1.91e3	8.15e5	0.000	0.396
10	40 Total Penta-Dioxins	31.16	1.396	YES	3.63e2	8.15e5	0.000	0.0413
11	40 Total Penta-Dioxins	31.25	0.698	NO	2.05e3	8.15e5	0.486	0.486

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	41 Total Hexa-Dioxins	32.77	1.241	NO	2.83e5	9.21e5	67.2	67.2
2	41 Total Hexa-Dioxins	33.32	1.272	NO	3.00e4	9.21e5	7.04	7.04
3	41 Total Hexa-Dioxins	33.57	1.219	NO	2.26e5	9.21e5	54.1	54.1
4	41 Total Hexa-Dioxins	33.67	1.188	NO	1.92e4	9.21e5	4.63	4.63
5	3 1,2,3,4,7,8-HxCDD	34.24	1.261	NO	6.16e3	7.99e5	1.44	1.44
6	4 1,2,3,6,7,8-HxCDD	34.35	1.238	NO	4.77e4	1.06e6	9.90	9.90
7	41 Total Hexa-Dioxins	34.53	1.336	NO	8.44e3	9.21e5	1.94	1.94
8	5 1,2,3,7,8,9-HxCDD	34.62	1.209	NO	1.77e4	9.08e5	4.29	4.29

Hepta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	42 Total Hepta-Dioxins	37.09	1.025	NO	2.13e6	3.93e5	1170	1170
2	6 1,2,3,4,6,7,8-HpCDD	38.14	1.020	NO	8.52e5	3.93e5	469	469

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Tetra-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	19.61	0.777	NO	4.79e3	1.37e6	0.871	0.871
2	43 Total Tetra-Furans	20.11	0.737	NO	1.22e4	1.37e6	2.28	2.28
3	43 Total Tetra-Furans	20.68	0.744	NO	7.56e4	1.37e6	14.1	14.1
4	43 Total Tetra-Furans	21.22	0.740	NO	2.30e4	1.37e6	4.29	4.29
5	43 Total Tetra-Furans	21.62	0.746	NO	9.32e4	1.37e6	17.4	17.4
6	43 Total Tetra-Furans	22.07	0.751	NO	5.17e4	1.37e6	9.59	9.59
7	43 Total Tetra-Furans	22.23	0.710	NO	3.71e3	1.37e6	0.710	0.710
8	43 Total Tetra-Furans	22.43	0.747	NO	1.56e4	1.37e6	2.91	2.91
9	43 Total Tetra-Furans	22.89	0.741	NO	3.41e3	1.37e6	0.638	0.638
10	43 Total Tetra-Furans	23.04	0.796	NO	5.09e3	1.37e6	0.913	0.913
11	43 Total Tetra-Furans	23.22	0.762	NO	3.62e4	1.37e6	6.67	6.67
12	43 Total Tetra-Furans	23.33	0.768	NO	8.13e4	1.37e6	14.9	14.9
13	43 Total Tetra-Furans	23.86	0.751	NO	2.64e5	1.37e6	48.9	48.9
14	43 Total Tetra-Furans	24.16	0.762	NO	1.31e4	1.37e6	2.41	2.41
15	43 Total Tetra-Furans	24.37	0.715	NO	5.58e3	1.37e6	1.06	1.06
16	43 Total Tetra-Furans	24.61	0.716	NO	3.81e3	1.37e6	0.726	0.726
17	43 Total Tetra-Furans	24.73	0.760	NO	4.99e4	1.37e6	9.20	9.20
18	8 2,3,7,8-TCDF	24.84	0.761	NO	2.89e5	1.37e6	53.2	53.2
19	43 Total Tetra-Furans	25.23	0.744	NO	1.74e4	1.37e6	3.24	3.24
20	43 Total Tetra-Furans	25.50	0.778	NO	3.58e3	1.37e6	0.651	0.651
21	43 Total Tetra-Furans	26.33	1.565	YES	1.10e3	1.37e6	0.000	0.0988
22	43 Total Tetra-Furans	26.45	0.789	NO	5.23e3	1.37e6	0.943	0.943
23	43 Total Tetra-Furans	26.63	0.785	NO	7.28e3	1.37e6	1.32	1.32
24	43 Total Tetra-Furans	26.92	0.867	NO	3.92e4	1.37e6	6.72	6.72

Penta-Furans function 1

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.93	1.554	NO	3.88e5	1.60e6	53.4	53.4

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Penta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	28.41	1.492	NO	1.59e4	1.60e6	2.23	2.23
2	45 Total Penta-Furans	28.56	1.559	NO	3.89e5	1.60e6	53.5	53.5
3	45 Total Penta-Furans	28.91	1.060	YES	1.38e3	1.60e6	0.000	0.190
4	45 Total Penta-Furans	29.16	1.540	NO	9.92e4	1.60e6	13.7	13.7
5	45 Total Penta-Furans	29.39	1.562	NO	6.37e4	1.60e6	8.74	8.74
6	9 1,2,3,7,8-PeCDF	29.60	1.535	NO	4.81e5	1.56e6	68.4	68.4
7	45 Total Penta-Furans	29.86	1.538	NO	2.05e5	1.60e6	28.3	28.3
8	45 Total Penta-Furans	30.35	1.159	YES	1.25e3	1.60e6	0.000	0.173
9	45 Total Penta-Furans	30.45	1.602	NO	6.66e3	1.60e6	0.905	0.905
10	10 2,3,4,7,8-PeCDF	30.55	1.479	NO	7.97e4	1.65e6	10.4	10.4
11	45 Total Penta-Furans	31.49	1.603	NO	1.61e4	1.60e6	2.18	2.18
12	45 Total Penta-Furans	30.85	2.060	YES	3.17e3	1.60e6	0.000	0.329
13	45 Total Penta-Furans	30.56	1.573	NO	2.49e5	1.60e6	0.000	34.1

Hexa-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	46 Total Hexa-Furans	32.22	1.296	NO	9.66e3	6.56e5	1.99	1.99
2	46 Total Hexa-Furans	32.35	1.171	NO	3.17e4	6.56e5	6.86	6.86
3	46 Total Hexa-Furans	32.43	1.211	NO	1.80e5	6.56e5	38.3	38.3
4	46 Total Hexa-Furans	32.75	1.240	NO	3.88e3	6.56e5	0.817	0.817
5	46 Total Hexa-Furans	32.93	1.204	NO	2.82e5	6.56e5	60.1	60.1
6	46 Total Hexa-Furans	33.28	1.168	NO	6.15e3	6.56e5	1.33	1.33
7	11 1,2,3,4,7,8-HxCDF	33.38	1.206	NO	5.11e5	6.71e5	110	110
8	12 1,2,3,6,7,8-HxCDF	33.50	1.241	NO	1.63e5	7.27e5	32.7	32.7
9	46 Total Hexa-Furans	33.76	1.259	NO	5.56e3	6.56e5	1.16	1.16
10	13 2,3,4,6,7,8-HxCDF	34.07	1.153	NO	4.52e4	6.18e5	10.5	10.5
11	14 1,2,3,7,8,9-HxCDF	34.98	1.174	NO	1.36e4	6.09e5	3.40	3.40
12	46 Total Hexa-Furans	35.00	1.241	NO	4.56e4	6.56e5	9.59	9.59

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Hepta-Furans

#	Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	36.70	1.018	NO	2.63e5	3.84e5	98.0	98.0
2	47 Total Hepta-Furans	37.10	0.894	NO	3.78e3	3.36e5	1.71	1.71
3	47 Total Hepta-Furans	37.30	1.018	NO	5.48e5	3.36e5	231	231
4	16 1,2,3,4,7,8,9-HpCDF	38.78	1.039	NO	4.80e4	2.88e5	20.1	20.1

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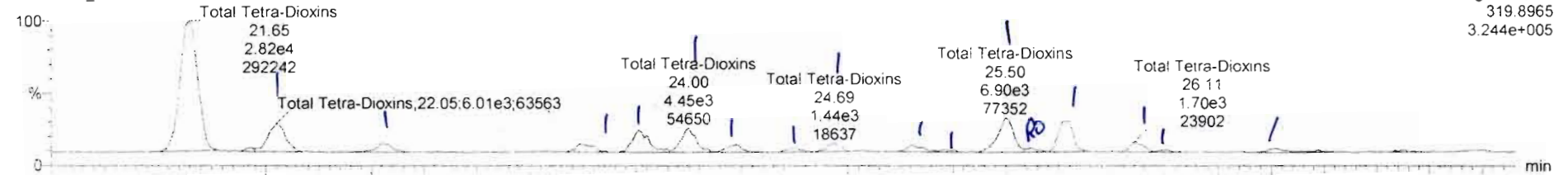
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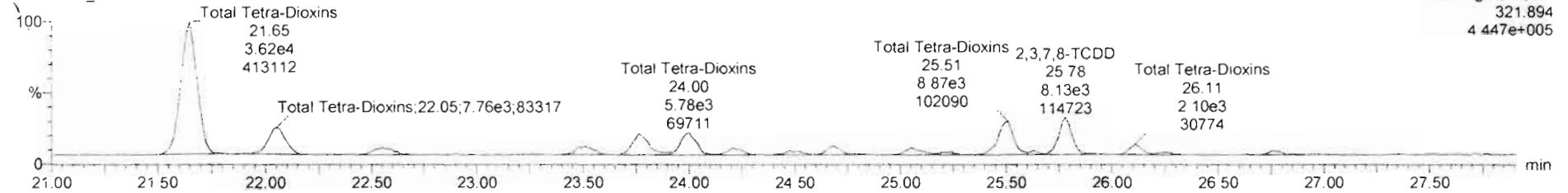
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2,3,7,8-TCDD

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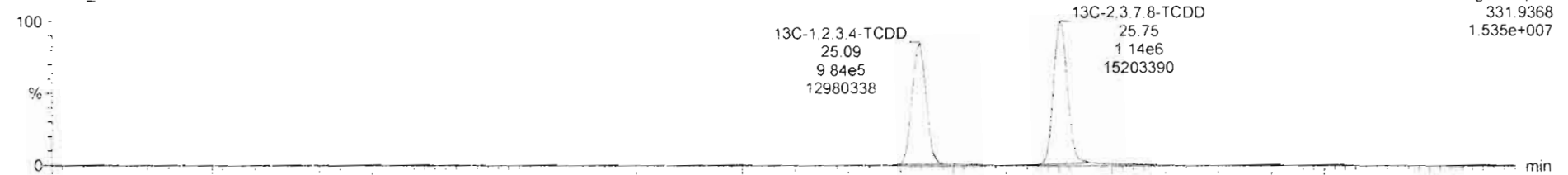


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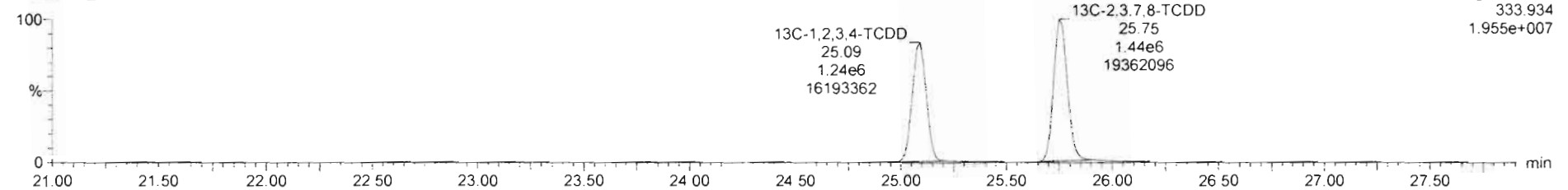


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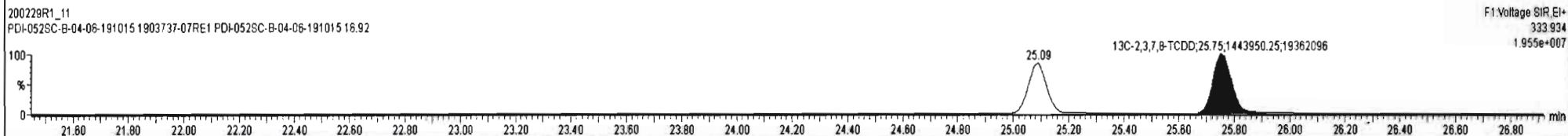
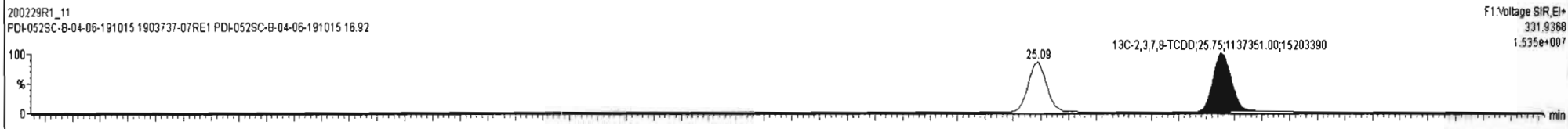
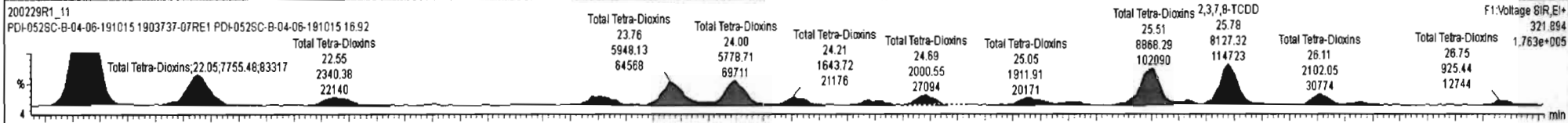
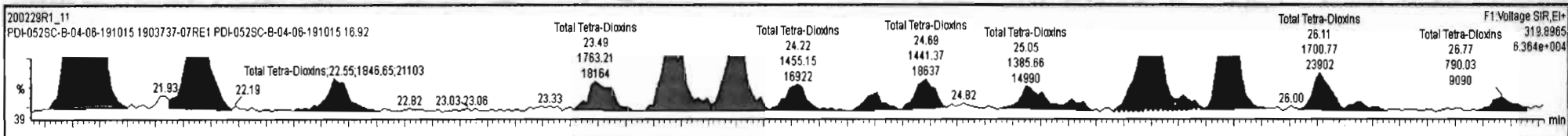
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200229R1_11_1903737-07RE1 PDI-0525C-B-04-06-191015 16.92; FID0525C-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	wt/mt	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.012	24.62		0.000		NO	12.22		0.0533	12.30

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.65	2.617e4	3.615e4	0.770	0.78	NO	5.0384	5.0384
2	39 Total Tetra-Dioxins	24.62	22.05	6.012e3	7.755e3	0.770	0.76	NO	1.0783	1.0783
3	39 Total Tetra-Dioxins	24.62	22.55	1.847e3	2.340e3	0.770	0.79	NO	0.32795	0.32795
4	39 Total Tetra-Dioxins	24.62	23.49	1.763e3	2.496e3	0.770	0.71	NO	0.33362	0.33362
5	39 Total Tetra-Dioxins	24.62	23.76	4.619e3	5.948e3	0.770	0.78	NO	0.82768	0.82768
6	39 Total Tetra-Dioxins	24.62	24.00	4.449e3	5.779e3	0.770	0.77	NO	0.80112	0.80112
7	39 Total Tetra-Dioxins	24.62	24.22	1.455e3	1.644e3	0.770	0.89	NO	0.24272	0.24272
8	39 Total Tetra-Dioxins	24.62	24.51	7.567e2	1.039e3	0.770	0.73	NO	0.14064	0.14064
9	39 Total Tetra-Dioxins	24.62	24.89	1.441e3	2.001e3	0.770	0.72	NO	0.26959	0.26959
10	39 Total Tetra-Dioxins	24.62	25.05	1.386e3	1.912e3	0.770	0.72	NO	0.25828	0.25828
11	39 Total Tetra-Dioxins	24.62	25.21	4.485e2	6.308e2	0.770	0.71	NO	0.084534	0.084534
12	39 Total Tetra-Dioxins	24.62	25.50	7.005e3	8.868e3	0.770	0.79	NO	1.2433	1.2433
13	39 Total Tetra-Dioxins	24.62	25.62	4.952e2	5.255e2	0.770	0.94	YES	0.072849	0.00000
14	1 2,3,7,8-TCDD	25.78	25.80	5.655e3	8.127e3	0.770	0.70	NO	1.0785	1.0785
15	39 Total Tetra-Dioxins	24.62	26.11	1.701e3	2.102e3	0.770	0.81	NO	0.29786	0.29786
16	39 Total Tetra-Dioxins	24.62	26.26	3.583e2	4.983e2	0.770	0.82	NO	0.067092	0.067092
17	39 Total Tetra-Dioxins	24.62	26.77	7.900e2	9.254e2	0.770	0.85	NO	0.13436	0.13436



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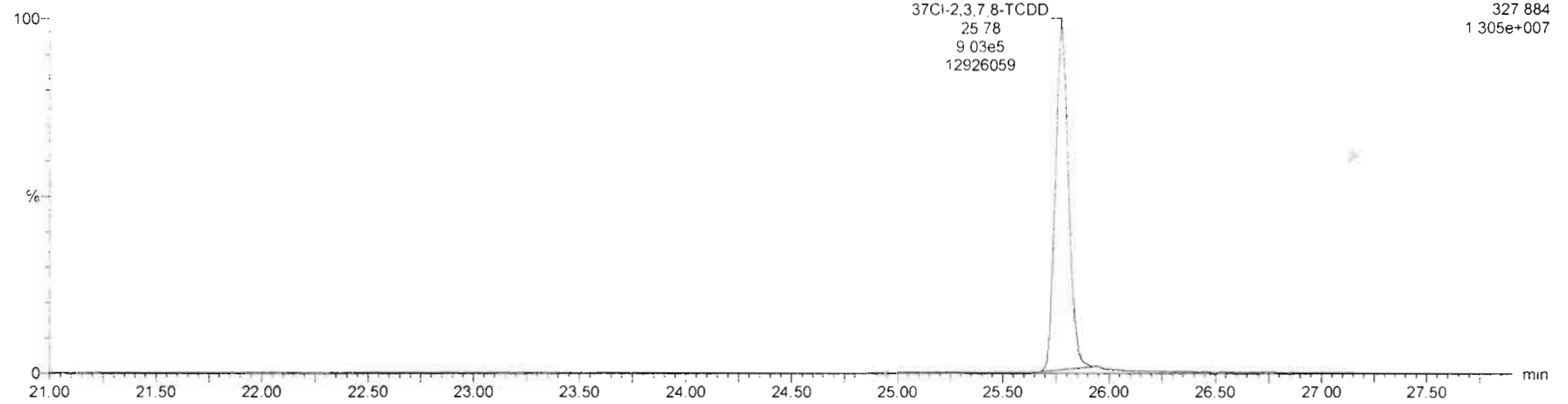
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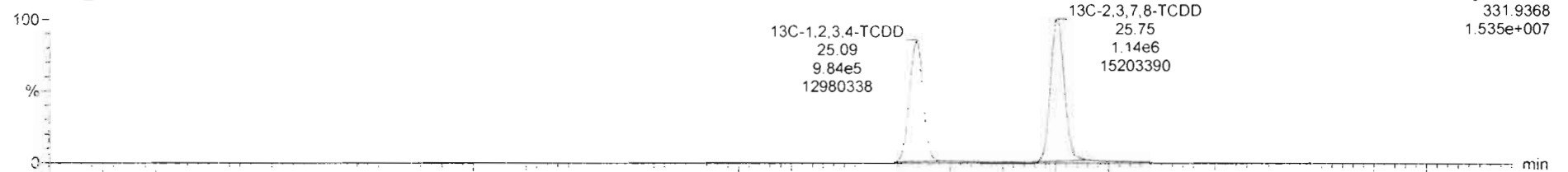
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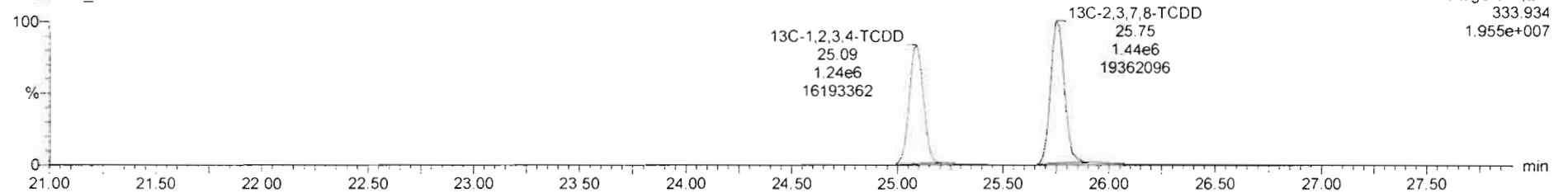


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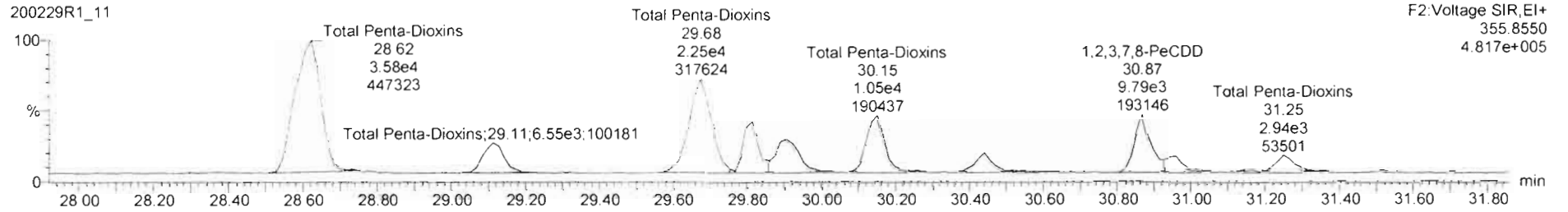
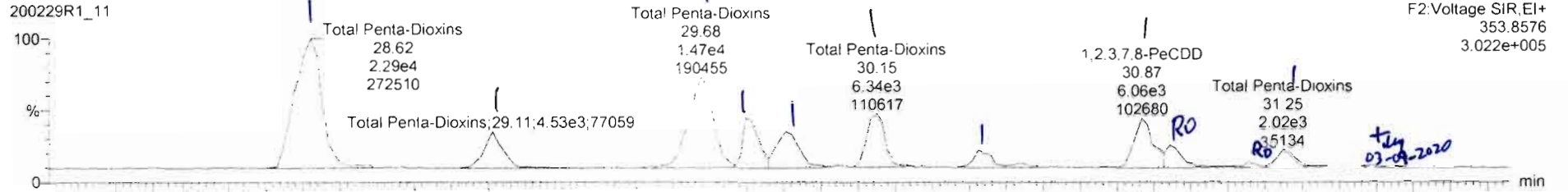
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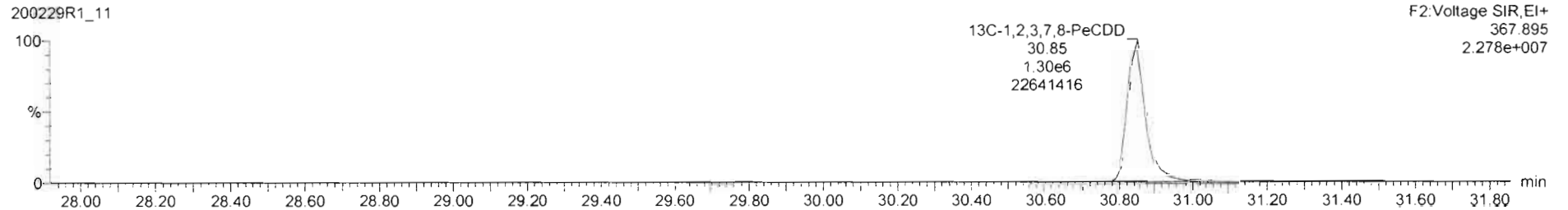
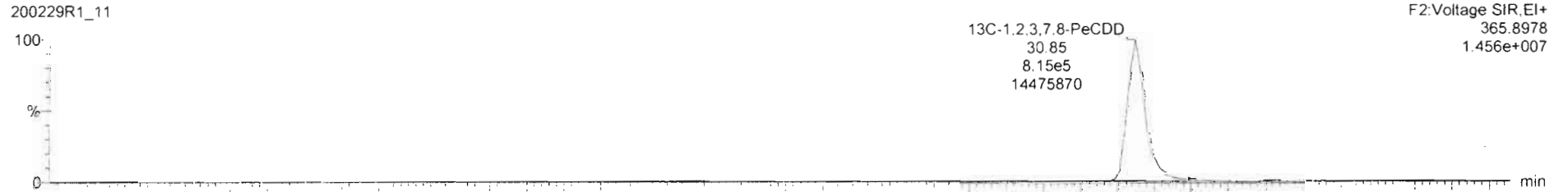
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1,2,3,7,8-PeCDD



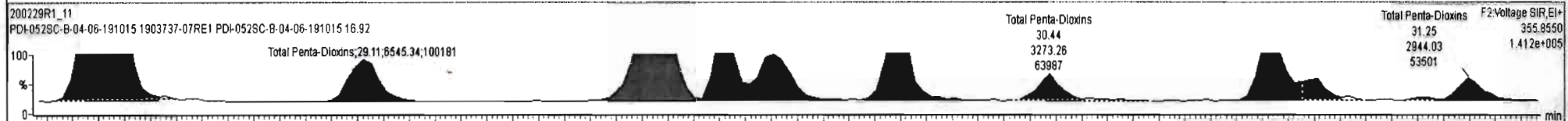
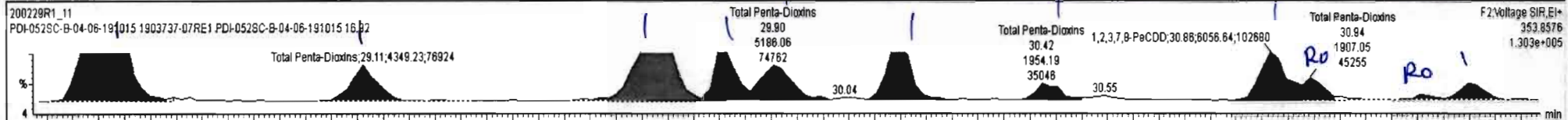
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200229R1_11 - 1903737-07RE1 PDI-052SC-B-04-06-191015 16.92 - PDI-052SC-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	wt/wal	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	BMPC
40	Total Penta-Dioxins				0.9723	10.012	29.96		0.000		NO	17.15		0.0883	17.59

#	Name	Pred.RT	RT /	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	BMPC	Conc.
1	40 Total Penta-Dioxins	29.96	29.62	2.277e4	3.619e4	0.630	0.63	NO	5.7381	5.7361
2	40 Total Penta-Dioxins	29.96	29.11	4.349e3	6.545e3	0.630	0.66	NO	1.0603	1.0603
3	40 Total Penta-Dioxins	29.96	29.68	1.454e4	2.246e4	0.630	0.65	NO	3.6004	3.6004
4	40 Total Penta-Dioxins	29.96	29.80	5.304e3	8.305e3	0.630	0.64	NO	1.3245	1.3245
5	40 Total Penta-Dioxins	29.96	29.90	5.186e3	7.691e3	0.630	0.67	NO	1.2531	1.2531
6	40 Total Penta-Dioxins	29.96	30.15	6.341e3	1.047e4	0.630	0.61	NO	1.6363	1.6363
7	40 Total Penta-Dioxins	29.96	30.42	1.954e3	3.273e3	0.630	0.60	NO	0.50874	0.50874
8	2 1,2,3,7,8-PeCDD	30.87	30.86	6.057e3	9.791e3	0.630	0.62	NO	1.5423	1.5423
9	40 Total Penta-Dioxins	29.96	30.94	1.807e3	2.495e3	0.630	0.76	YES	0.39574	0.00000
10	40 Total Penta-Dioxins	29.96	31.16	3.631e2	2.601e2	0.630	1.40	YES	0.041257	0.00000
11	40 Total Penta-Dioxins	29.96	31.25	2.054e3	2.944e3	0.630	0.70	NO	0.48641	0.48641



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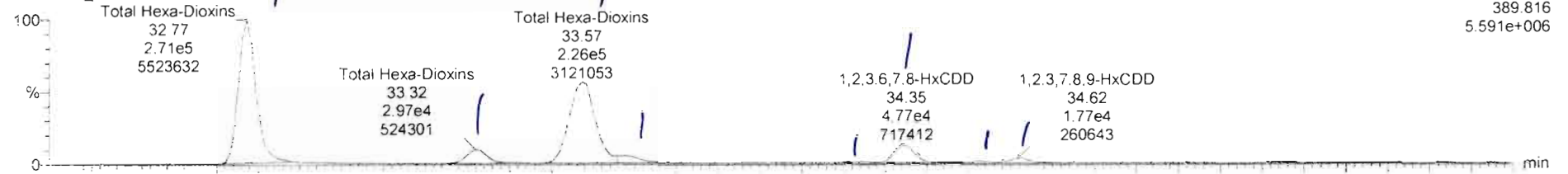
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

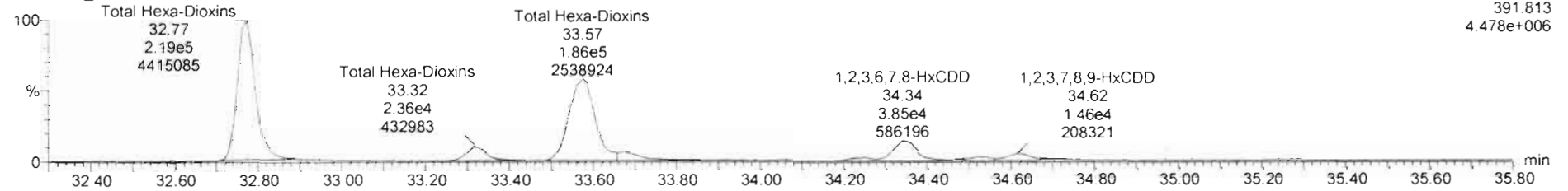
Name: 200229R1_11, Date: 29-Feb-2020, Time: 19:08:42, ID: 1903737-07RE1 PDI-052SC-B-04-06-191015 16.92, Description: PDI-052SC-B-04-06-191015

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

200229R1_11

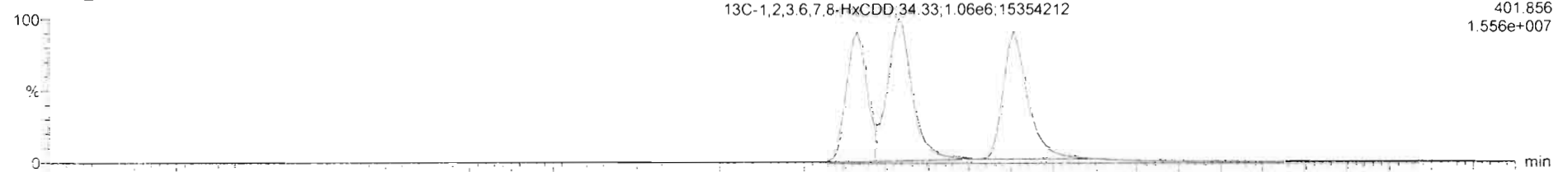


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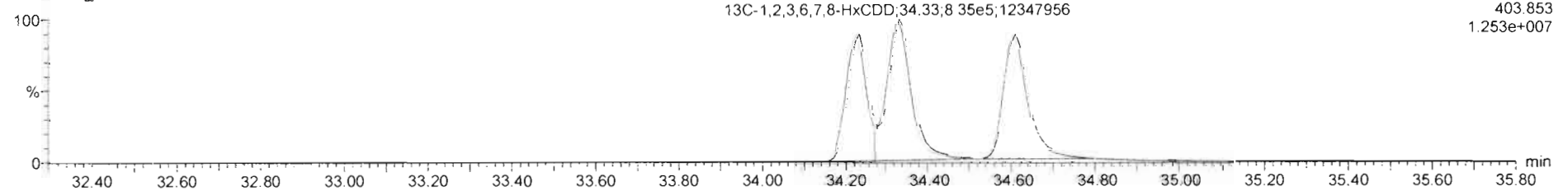


13C-1,2,3,4,7,8-HxCDD

200229R1_11



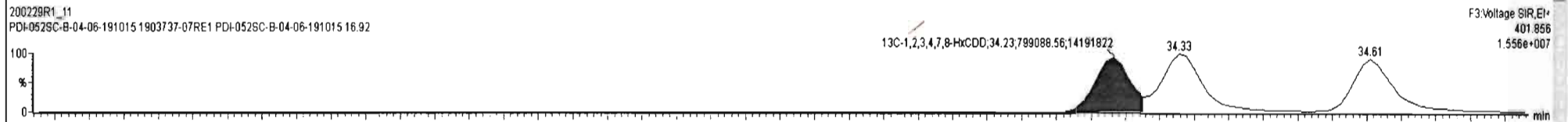
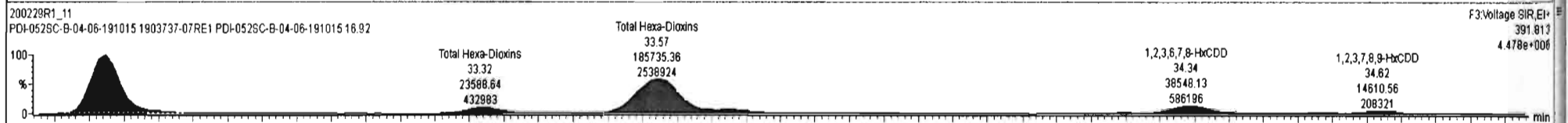
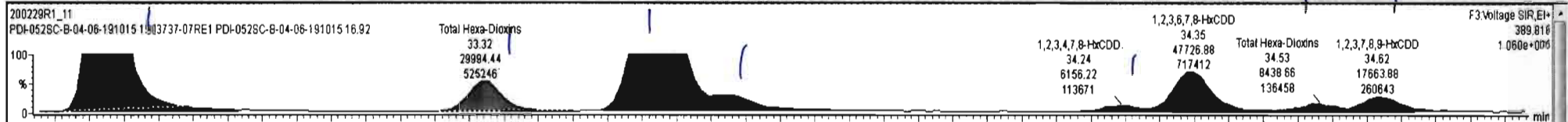
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200229R1_11 1903737-07RE1 PDI-052SC-B-04-06-191015 16.92 PDI-052SC-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	wtAval	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9723	10.012	29.96		0.000		NO	17.15		0.0683	17.59

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.77	2.833e5	2.283e5	1.240	1.24	NO	67.183	67.183
2	41 Total Hexa-Dioxins	33.63	33.32	2.999e4	2.359e4	1.240	1.27	NO	7.0377	7.0377
3	41 Total Hexa-Dioxins	33.63	33.57	2.265e5	1.857e5	1.240	1.22	NO	54.143	54.143
4	41 Total Hexa-Dioxins	33.63	33.67	1.915e4	1.613e4	1.240	1.19	NO	4.6337	4.6337
5	3 1,2,3,4,7,8-HxCDD	34.24	34.24	6.158e3	4.883e3	1.240	1.26	NO	1.4432	1.4432
6	4 1,2,3,6,7,8-HxCDD	34.33	34.35	4.773e4	3.865e4	1.240	1.24	NO	9.8980	9.8980
7	41 Total Hexa-Dioxins	33.63	34.53	8.439e3	6.317e3	1.240	1.34	NO	1.9380	1.9380
8	5 1,2,3,7,8-HxCDD	34.64	34.62	1.786e4	1.461e4	1.240	1.21	NO	4.2913	4.2913



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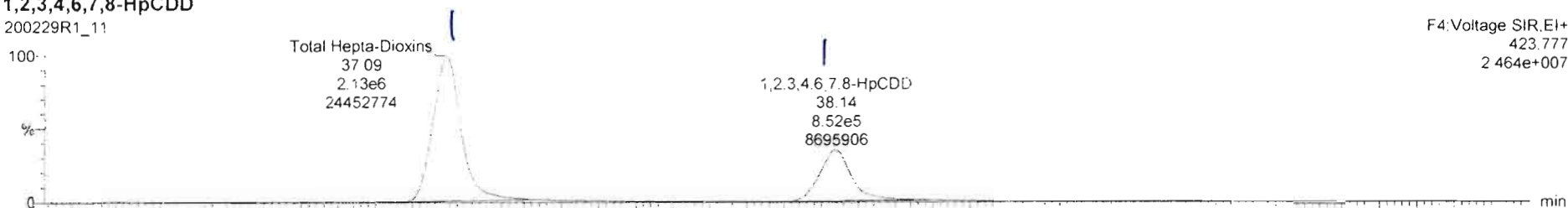
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Name: 200229R1_11, Date: 29-Feb-2020, Time: 19:08:42, ID: 1903737-07RE1 PDI-052SC-B-04-06-191015 16.92, Description: PDI-052SC-B-04-06-191015

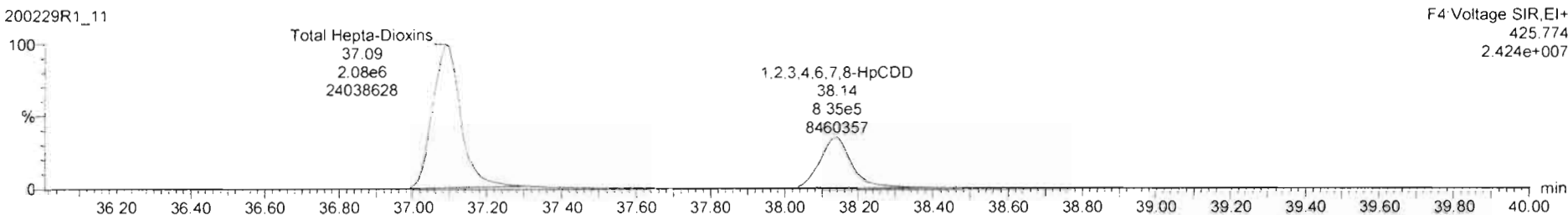
1,2,3,4,6,7,8-HpCDD

200229R1_11



F4: Voltage SIR, EI+
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2.464e+007

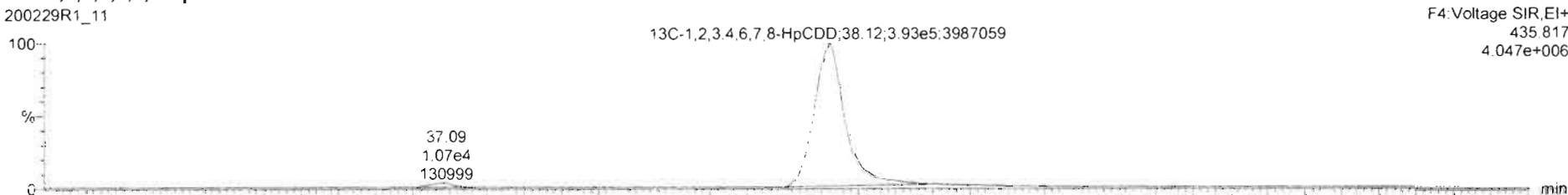
200229R1_11



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425.774
2.424e+007

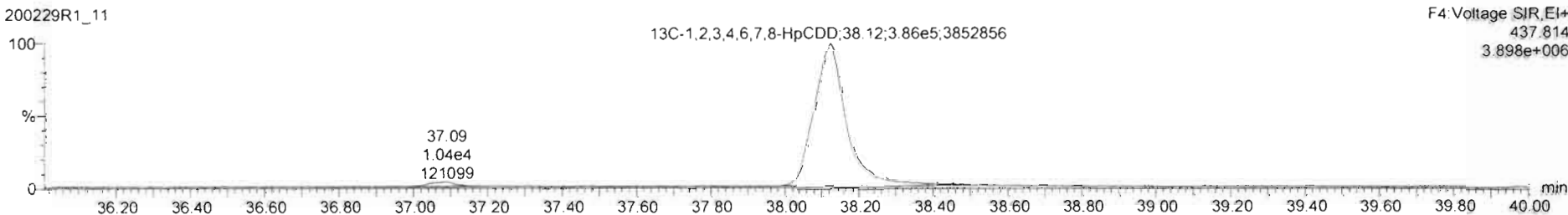
13C-1,2,3,4,6,7,8-HpCDD

200229R1_11



F4: Voltage SIR, EI+
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4.047e+006

200229R1_11

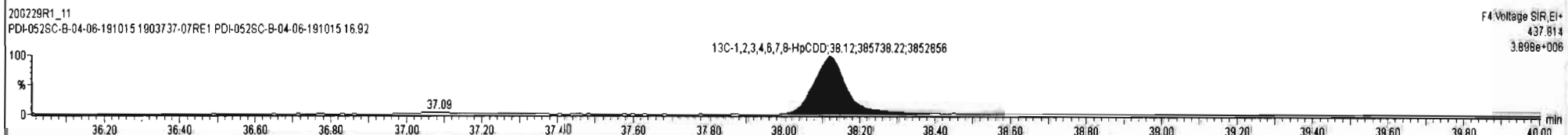
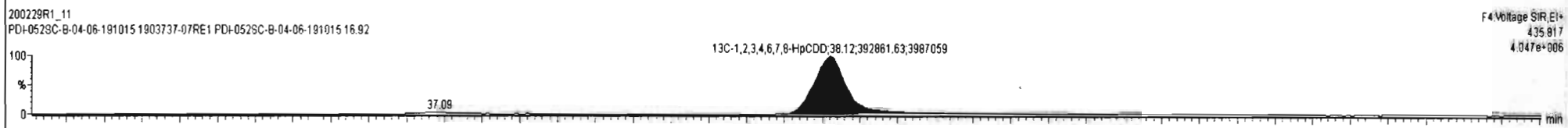
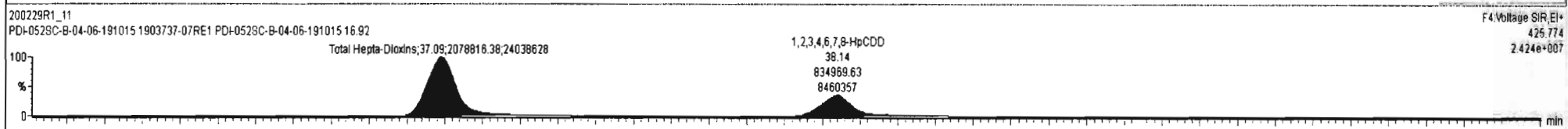
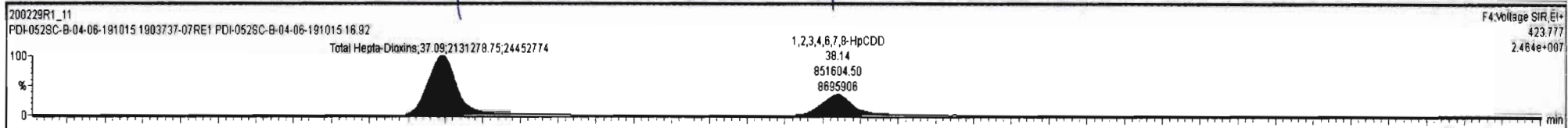


F4: Voltage SIR, EI+
437.814
3.898e+006

200229R1_11 - 1903737-07RE1 PDI-052SC-B-04-06-191015 16.92 - PDI-052SC-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	wtAvcI	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9221	19.012	37.64		0.000		NO	1639		1.21	1639

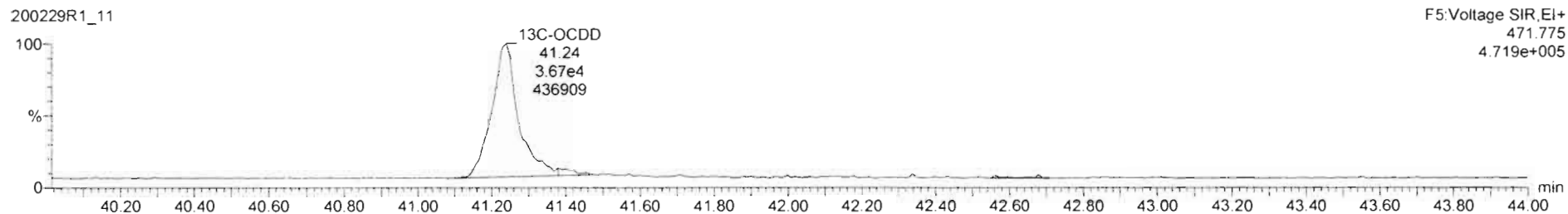
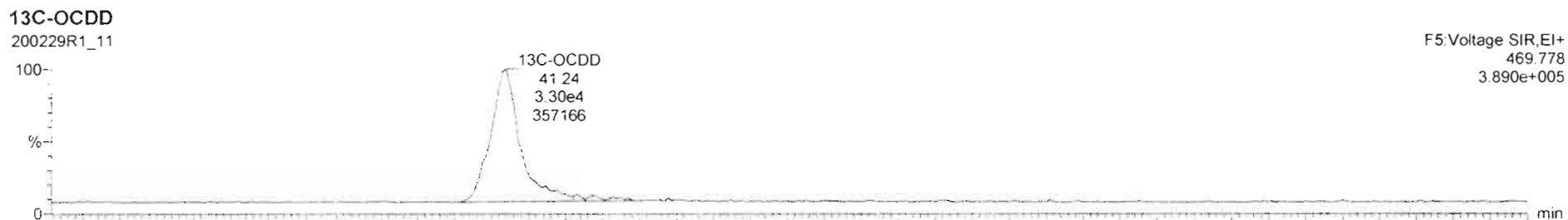
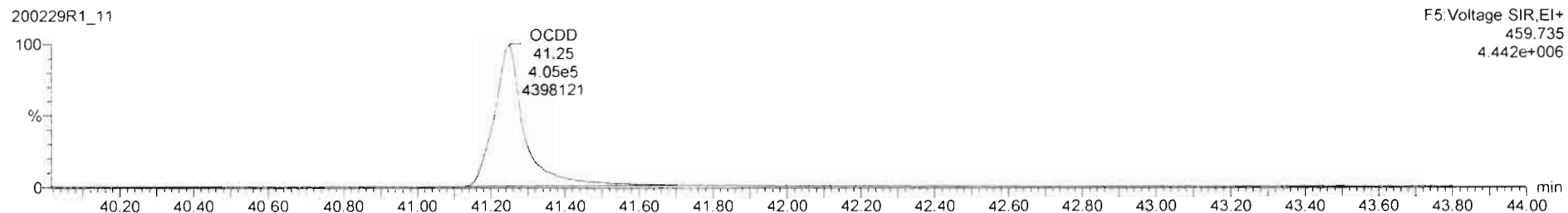
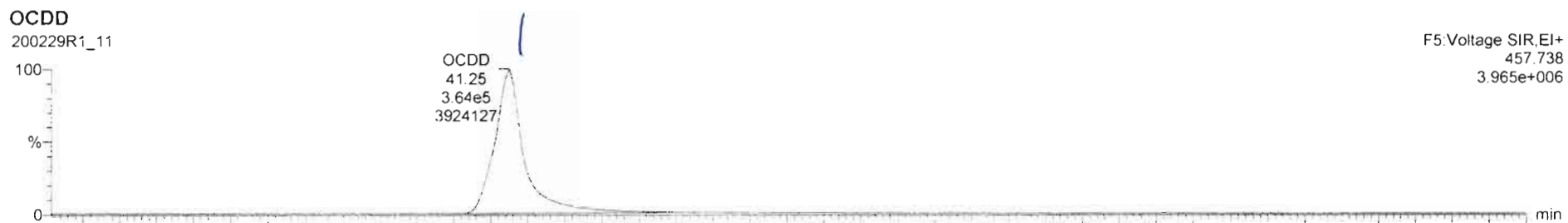
#	Name	Pred.RT	RT /	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	42 Total Hepta-Dioxins	37.64	37.09	2.131e6	2.079e6	1.040	1.03	NO	1170.2	1170.2
2	6 1,2,3,4,6,7,8-HpCDD	38.13	38.14	8.519e5	8.350e5	1.040	1.02	NO	468.80	468.80



Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_11, Date: 29-Feb-2020, Time: 19:08:42, ID: 1903737-07RE1 PDI-052SC-B-04-06-191015 16.92, Description: PDI-052SC-B-04-06-191015

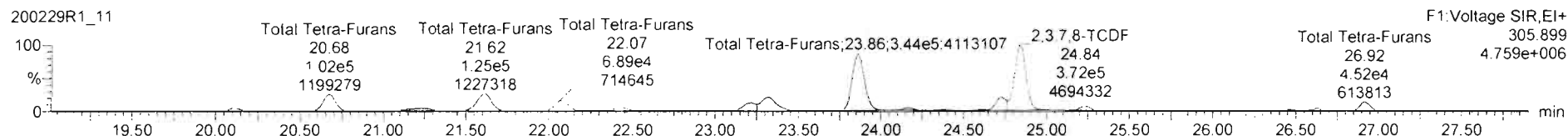
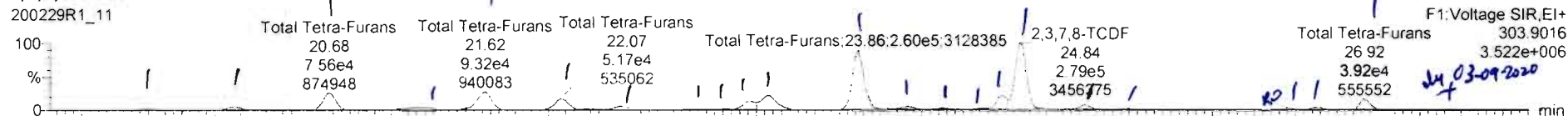


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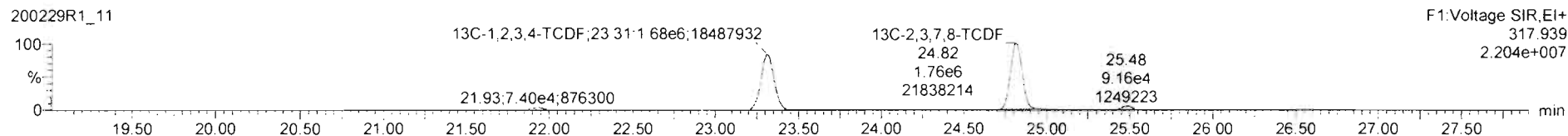
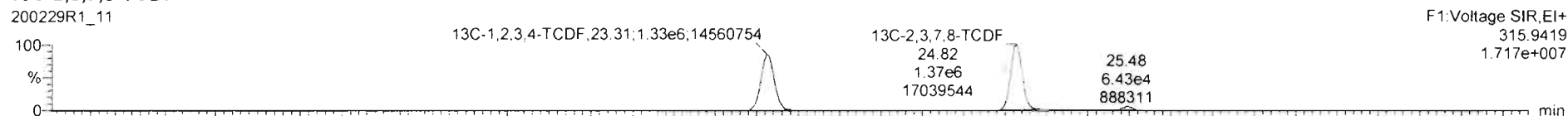
Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_11, Date: 29-Feb-2020, Time: 19:08:42, ID: 1903737-07RE1 PDI-052SC-B-04-06-191015 16.92, Description: PDI-052SC-B-04-06-191015

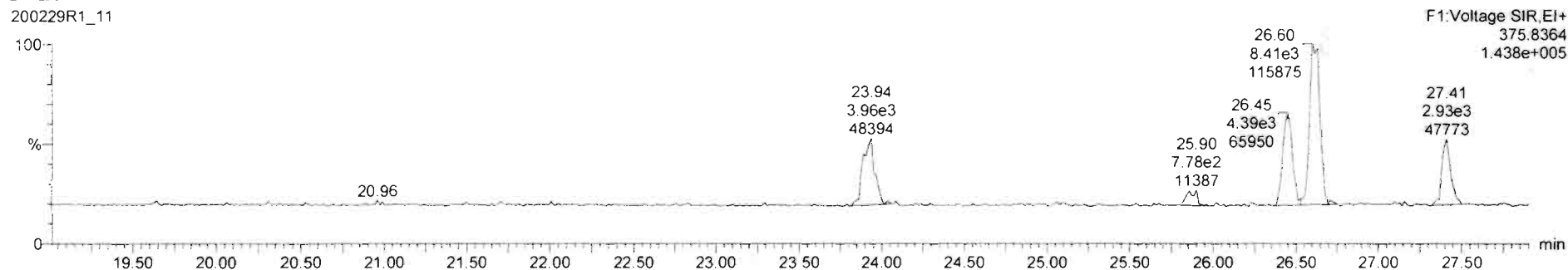
2,3,7,8-TCDF



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

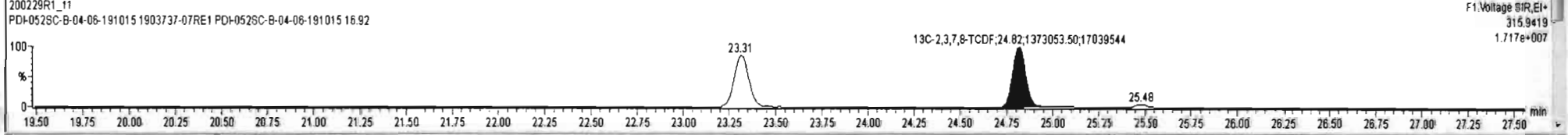
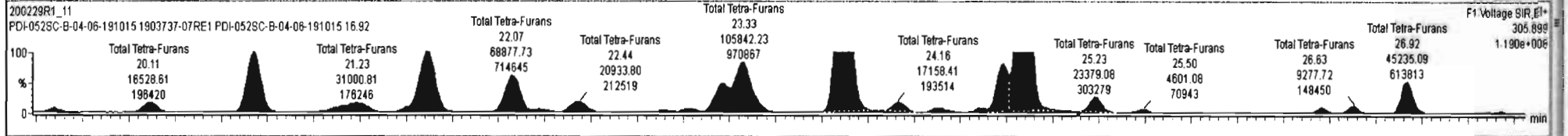
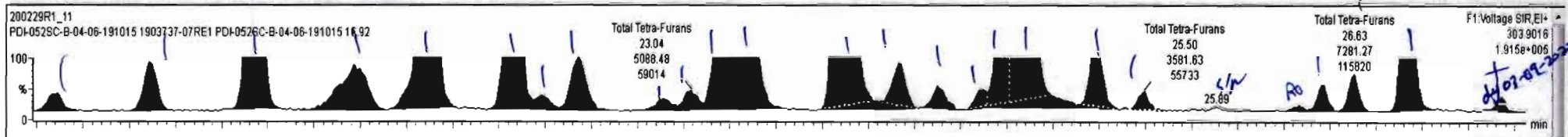


DPE1



#	Name	Resp	RA	n/y	R/R	wtAve	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	19.012	23.61		0.000		NO	203.9		0.137	204.0

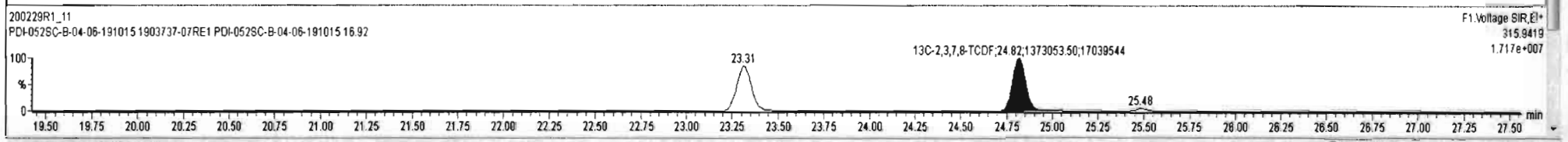
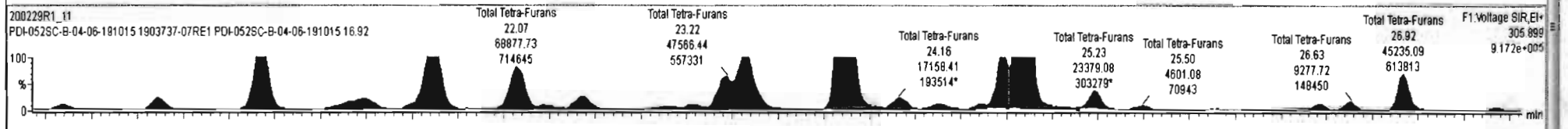
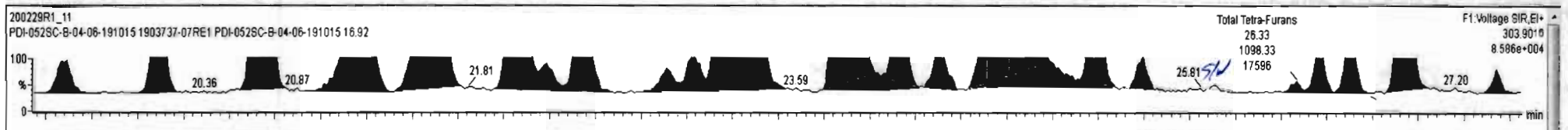
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	2,3,7,8-TCDF	24.85	24.84	2.890e5	3.799e5	0.770	0.76	NO	53.200	53.200
2	Total Tetra-Furans	23.61	19.61	4.792e3	6.163e3	0.770	0.78	NO	0.87140	0.87140
3	Total Tetra-Furans	23.61	20.11	1.218e4	1.653e4	0.770	0.74	NO	2.2833	2.2833
4	Total Tetra-Furans	23.61	20.68	7.558e4	1.018e5	0.770	0.74	NO	14.092	14.092
5	Total Tetra-Furans	23.61	21.22	2.295e4	3.100e4	0.770	0.74	NO	4.2916	4.2916
6	Total Tetra-Furans	23.61	21.62	9.324e4	1.250e5	0.770	0.75	NO	17.356	17.356
7	Total Tetra-Furans	23.61	22.07	5.169e4	6.888e4	0.770	0.75	NO	9.5908	9.5908
8	Total Tetra-Furans	23.61	22.23	3.707e3	5.219e3	0.770	0.71	NO	0.71007	0.71007
9	Total Tetra-Furans	23.61	22.43	1.584e4	2.093e4	0.770	0.75	NO	2.9089	2.9089
10	Total Tetra-Furans	23.61	22.89	3.411e3	4.606e3	0.770	0.74	NO	0.63771	0.63771
11	Total Tetra-Furans	23.61	23.04	5.088e3	6.394e3	0.770	0.80	NO	0.91337	0.91337
12	Total Tetra-Furans	23.61	23.22	3.625e4	4.757e4	0.770	0.76	NO	6.6669	6.6669
13	Total Tetra-Furans	23.61	23.33	8.125e4	1.058e5	0.770	0.77	NO	14.883	14.883
14	Total Tetra-Furans	23.61	23.86	2.639e5	3.512e5	0.770	0.75	NO	48.930	48.930
15	Total Tetra-Furans	23.61	24.16	1.308e4	1.716e4	0.770	0.76	NO	2.4052	2.4052
16	Total Tetra-Furans	23.61	24.37	5.580e3	7.806e3	0.770	0.71	NO	1.0648	1.0648
17	Total Tetra-Furans	23.61	24.61	3.807e3	5.319e3	0.770	0.72	NO	0.72598	0.72598
18	Total Tetra-Furans	23.61	24.73	4.992e4	6.570e4	0.770	0.76	NO	9.1972	9.1972
19	Total Tetra-Furans	23.61	25.23	1.740e4	2.338e4	0.770	0.74	NO	3.2440	3.2440
20	Total Tetra-Furans	23.61	25.50	3.582e3	4.601e3	0.770	0.78	NO	0.65089	0.65089
21	Total Tetra-Furans	23.61	26.33	1.098e3	7.020e2	0.770	1.56	YES	0.098832	0.00000
22	Total Tetra-Furans	23.61	26.45	5.225e3	6.626e3	0.770	0.79	NO	0.94274	0.94274
23	Total Tetra-Furans	23.61	26.63	7.281e3	9.278e3	0.770	0.78	NO	1.3172	1.3172
24	Total Tetra-Furans	23.61	26.92	3.922e4	4.524e4	0.770	0.87	NO	6.7179	6.7179
25	Total Tetra-Furans	23.61	27.43	1.968e3	2.424e3	0.770	0.81	NO	0.34939	0.34939



200229R1_11 1903737-07RE1 PDI-0525C-B-04-06-191015 16.92 PDI-0525C-B-04-06-191015 16.92

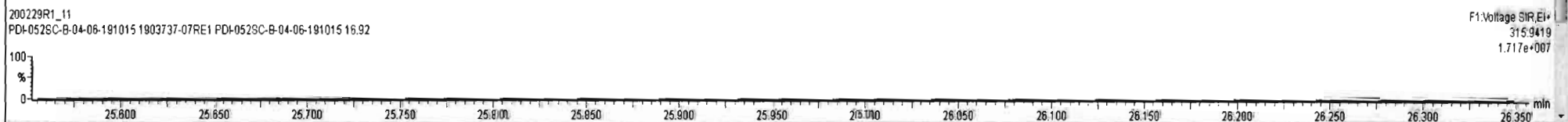
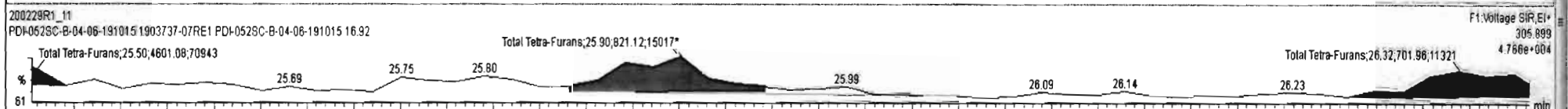
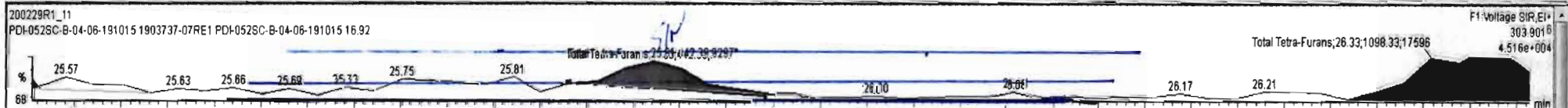
#	Name	Resp	RA	n/y	RRF	wtAvd	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	10.012	23.61		0.000		NO	200.8		0.137	201.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	2,3,7,8-TCDF	24.85	24.84	2.788e5	3.716e5	0.770	0.75	NO	51.734	51.734
2	Total Tetra-Furans	23.61	19.61	4.792e3	6.163e3	0.770	0.78	NO	0.87100	0.87140
3	Total Tetra-Furans	23.61	20.11	1.218e4	1.653e4	0.770	0.74	NO	2.2630	2.2633
4	Total Tetra-Furans	23.61	20.68	7.558e4	1.016e5	0.770	0.74	NO	14.092	14.092
5	Total Tetra-Furans	23.61	21.22	2.295e4	3.100e4	0.770	0.74	NO	4.2920	4.2916
6	Total Tetra-Furans	23.61	21.62	9.324e4	1.250e5	0.770	0.75	NO	17.356	17.356
7	Total Tetra-Furans	23.61	22.07	5.169e4	6.888e4	0.770	0.75	NO	9.5910	9.5908
8	Total Tetra-Furans	23.61	22.23	3.707e3	5.219e3	0.770	0.71	NO	0.71000	0.71007
9	Total Tetra-Furans	23.61	22.43	1.564e4	2.093e4	0.770	0.75	NO	2.9090	2.9089
10	Total Tetra-Furans	23.61	22.89	3.411e3	4.606e3	0.770	0.74	NO	0.63800	0.63771
11	Total Tetra-Furans	23.61	23.04	5.068e3	6.394e3	0.770	0.80	NO	0.91300	0.91337
12	Total Tetra-Furans	23.61	23.22	3.625e4	4.757e4	0.770	0.76	NO	6.6670	6.6669
13	Total Tetra-Furans	23.61	23.33	8.125e4	1.058e5	0.770	0.77	NO	14.883	14.883
14	Total Tetra-Furans	23.61	23.86	2.585e5	3.444e5	0.770	0.75	NO	48.041	48.041
15	Total Tetra-Furans	23.61	24.16	1.069e4	1.372e4	0.770	0.78	NO	1.9420	1.9417
16	Total Tetra-Furans	23.61	24.37	5.580e3	7.806e3	0.770	0.71	NO	1.0650	1.0648
17	Total Tetra-Furans	23.61	24.61	3.584e3	5.319e3	0.770	0.67	NO	0.70800	0.70823
18	Total Tetra-Furans	23.61	24.73	4.844e4	6.506e4	0.770	0.75	NO	9.0290	9.0288
19	Total Tetra-Furans	23.61	25.23	1.657e4	2.218e4	0.770	0.75	NO	3.0810	3.0807
20	Total Tetra-Furans	23.61	25.50	3.754e3	4.601e3	0.770	0.82	NO	0.66500	0.66461
21	Total Tetra-Furans	23.61	25.69	4.238e2	1.074e3	0.770	0.39	YES	0.077000	0.00000
22	Total Tetra-Furans	23.61	26.33	1.098e3	7.020e2	0.770	1.57	YES	0.093000	0.00000
23	Total Tetra-Furans	23.61	26.45	5.225e3	6.626e3	0.770	0.79	NO	0.94300	0.94274
24	Total Tetra-Furans	23.61	26.63	7.261e3	9.278e3	0.770	0.79	NO	1.3170	1.3172
25	Total Tetra-Furans	23.61	26.92	3.922e4	4.524e4	0.770	0.87	NO	6.7180	6.7179
26	Total Tetra-Furans	23.61	27.43	1.968e3	2.424e3	0.770	0.81	NO	0.34900	0.34939



#	Name	Resp	RA	n/y	RRF	wfVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	43 Total Tetra-Furans				0.8020	10.012	23.81		0.000		NO	200.8		0.137	201.8
44	44 1st Func. Penta-Furans				0.9074	10.012	27.09		0.000		NO	53.44		0.0412	53.44
45	45 Total Penta-Furans				0.9074	10.012	29.27		0.000		NO	209.9		0.285	213.0
46	46 Total Hexa-Furans				0.8982	10.012	33.56		0.000		NO	276.8		0.215	278.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	8 2,3,7,8-TCDF	24.85	24.84	2.788e5	3.716e5	0.770	0.75	NO	51.734	51.734
2	43 Total Tetra-Furans	23.81	19.81	4.792e3	6.163e3	0.770	0.78	NO	0.87100	0.87140
3	43 Total Tetra-Furans	23.81	20.11	1.218e4	1.653e4	0.770	0.74	NO	2.2630	2.2833
4	43 Total Tetra-Furans	23.81	20.68	7.558e4	1.016e5	0.770	0.74	NO	14.092	14.092
5	43 Total Tetra-Furans	23.81	21.22	2.295e4	3.100e4	0.770	0.74	NO	4.2920	4.2916
6	43 Total Tetra-Furans	23.81	21.62	9.324e4	1.250e5	0.770	0.75	NO	17.356	17.356
7	43 Total Tetra-Furans	23.81	22.07	5.169e4	6.888e4	0.770	0.75	NO	9.5910	9.5908
8	43 Total Tetra-Furans	23.81	22.23	3.707e3	5.219e3	0.770	0.71	NO	0.71000	0.71007
9	43 Total Tetra-Furans	23.81	22.43	1.564e4	2.093e4	0.770	0.75	NO	2.8090	2.9089
10	43 Total Tetra-Furans	23.81	22.89	3.411e3	4.606e3	0.770	0.74	NO	0.63800	0.63771
11	43 Total Tetra-Furans	23.81	23.04	5.088e3	6.394e3	0.770	0.80	NO	0.91300	0.91337
12	43 Total Tetra-Furans	23.81	23.22	3.625e4	4.757e4	0.770	0.76	NO	6.6670	6.6669
13	43 Total Tetra-Furans	23.81	23.33	8.125e4	1.058e5	0.770	0.77	NO	14.883	14.883
14	43 Total Tetra-Furans	23.81	23.86	2.595e5	3.444e5	0.770	0.75	NO	48.041	48.041
15	43 Total Tetra-Furans	23.81	24.16	1.069e4	1.372e4	0.770	0.78	NO	1.9420	1.9417
16	43 Total Tetra-Furans	23.81	24.37	5.580e3	7.806e3	0.770	0.71	NO	1.0650	1.0648
17	43 Total Tetra-Furans	23.81	24.61	3.584e3	5.319e3	0.770	0.67	NO	0.70800	0.70823
18	43 Total Tetra-Furans	23.81	24.73	4.844e4	6.506e4	0.770	0.75	NO	9.0290	9.0288
19	43 Total Tetra-Furans	23.81	25.23	1.657e4	2.216e4	0.770	0.75	NO	3.0810	3.0807
20	43 Total Tetra-Furans	23.81	25.50	3.754e3	4.801e3	0.770	0.82	NO	0.66500	0.66461
21	43 Total Tetra-Furans	23.81	25.89	4.238e2	1.074e3	0.770	0.39	YES	0.077000	0.00000
22	43 Total Tetra-Furans	23.81	26.33	1.098e3	7.020e2	0.770	1.57	YES	0.099000	0.00000
23	43 Total Tetra-Furans	23.81	26.45	5.225e3	6.526e3	0.770	0.79	NO	0.94300	0.94274
24	43 Total Tetra-Furans	23.81	26.63	7.261e3	9.278e3	0.770	0.79	NO	1.3170	1.3172
25	43 Total Tetra-Furans	23.81	26.92	3.922e4	4.524e4	0.770	0.87	NO	6.7180	6.7179
26	43 Total Tetra-Furans	23.81	27.43	1.968e3	2.424e3	0.770	0.81	NO	0.34900	0.34939



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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

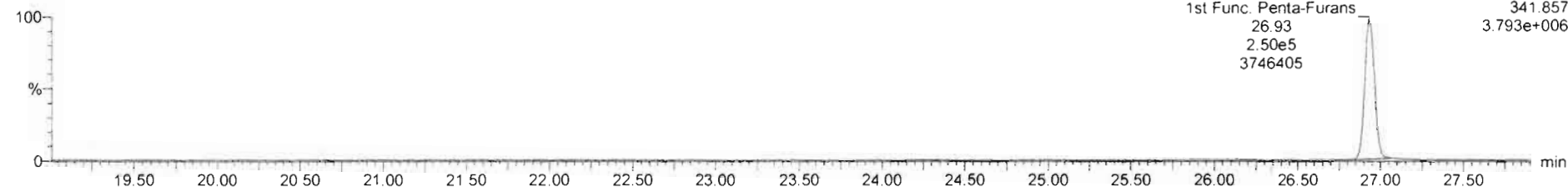
Name: 200229R1_11, Date: 29-Feb-2020, Time: 19:08:42, ID: 1903737-07RE1 PDI-052SC-B-04-06-191015 16.92, Description: PDI-052SC-B-04-06-191015

1st Func. Penta-Furans

200229R1_11

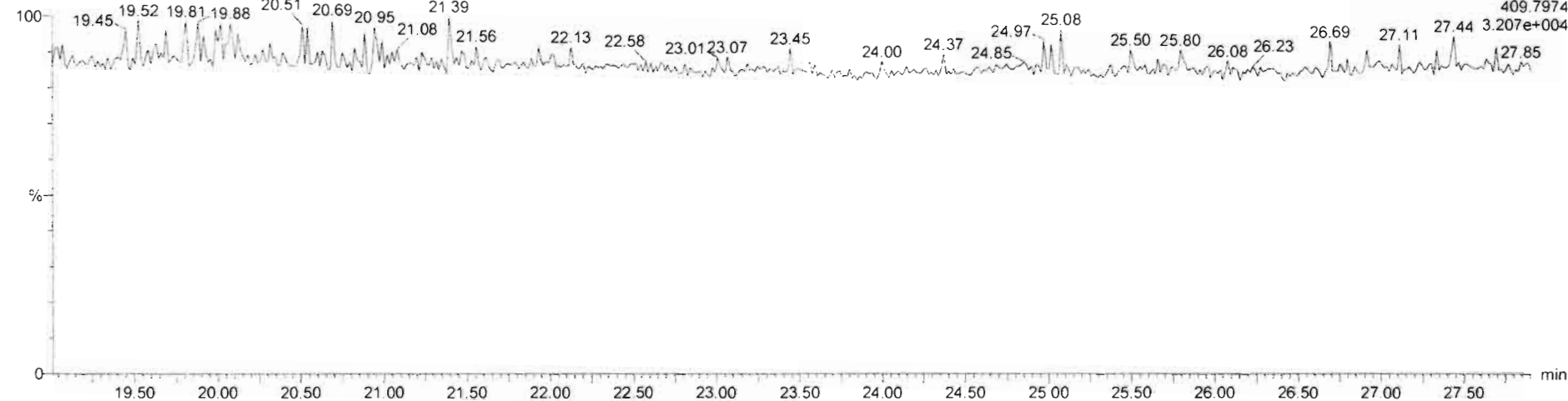


200229R1_11



DPE6

200229R1_11



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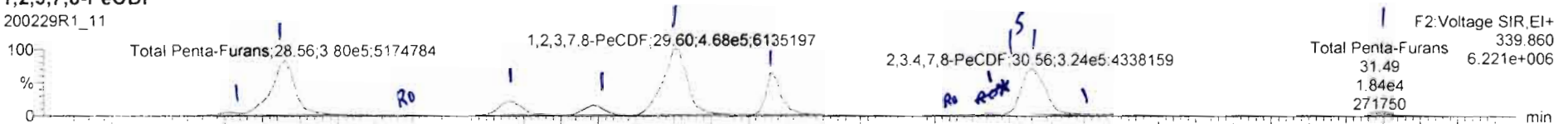
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2003-19-2020

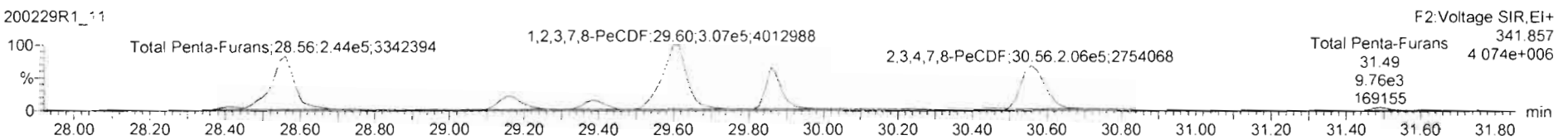
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1,2,3,7,8-PeCDF

200229R1_11

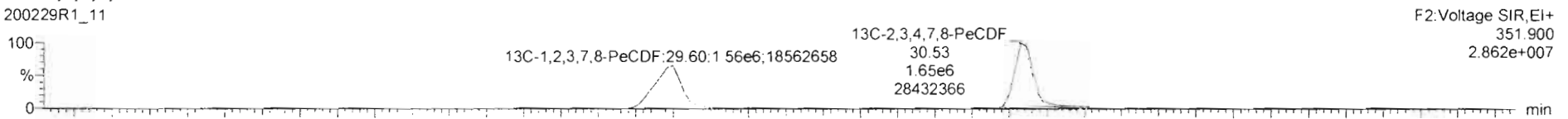


200229R1_11

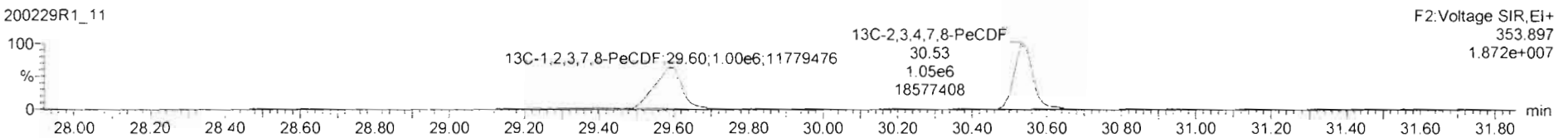


13C-1,2,3,7,8-PeCDF

200229R1_11

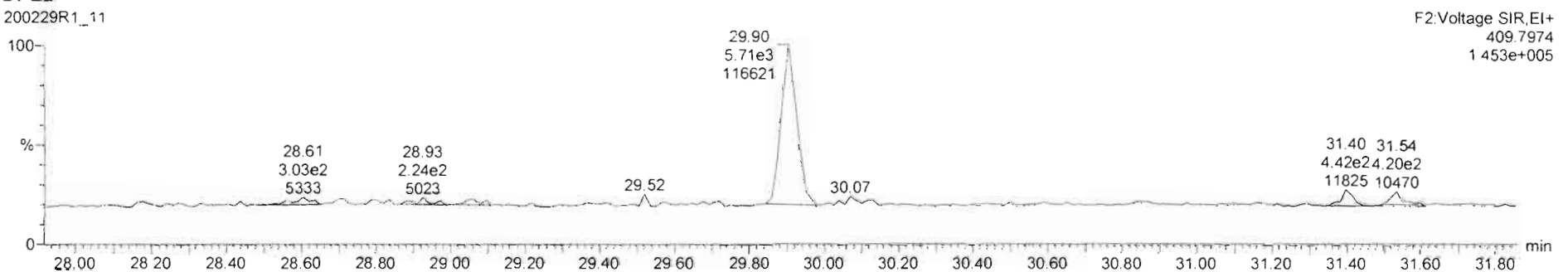


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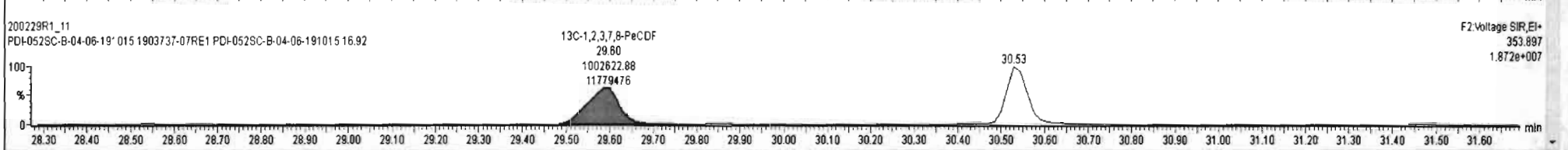
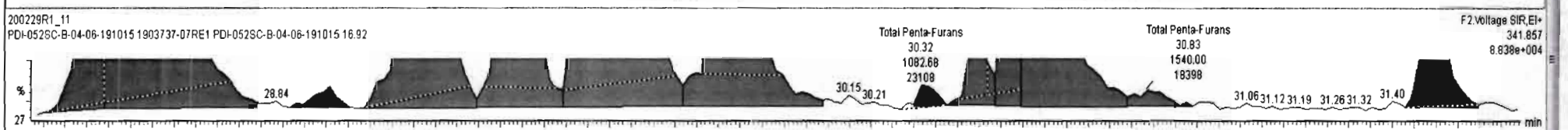
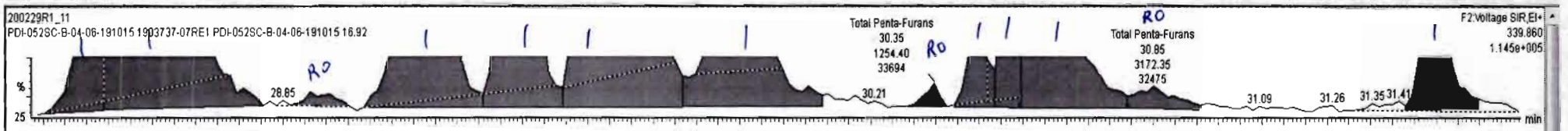
DPE2

200229R1_11



Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq.Date	Acq.Time	1* Chr/Noise	D	Sample Text	Factor1	SVM	Cal File	
45 Total Penta-Furans	168.310	0.295		223.137		0.907	45						29-Feb-20	19:08:42			1903737-07...	PDI-052SC-B-04...	0.0	10.0	db5_1...
46 Total Hexa-Furans	276.528	0.215		276.528		0.898	46						29-Feb-20	19:08:42			1903737-07...	PDI-052SC-B-04...	0.0	10.0	db5_1...

Name	RT	m1	Height	m2	Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 Total Penta-Furans	28.41	2.777e5	1.821e5	1.593e4	1.069e4	1.49	NO	2.661e4	2.23	2.23		
2 Total Penta-Furans	28.56	5.200e6	3.359e6	3.892e5	2.496e5	1.56	NO	6.389e5	53.5	53.5		
3 Total Penta-Furans	28.91	1.866e4	2.312e4	1.380e3	1.302e3	1.06	YES	0.000e0	0.000	0.190		
4 Total Penta-Furans	29.16	1.238e6	8.339e5	9.919e4	6.440e4	1.54	NO	1.638e5	13.7	13.7		
5 Total Penta-Furans	29.39	9.578e5	5.937e5	6.367e4	4.076e4	1.56	NO	1.044e5	8.74	8.74		
6 1,2,3,7,8-PeCDF	29.60	6.179e6	4.037e6	4.815e5	3.137e5	1.53	NO	7.951e5	68.4	68.4		
7 Total Penta-Furans	29.86	4.034e6	2.599e6	2.049e5	1.332e5	1.54	NO	3.380e5	28.3	28.3		
8 Total Penta-Furans	30.35	3.369e4	2.311e4	1.254e3	1.083e3	1.16	YES	0.000e0	0.000	0.173		
9 Total Penta-Furans	30.45	1.239e5	7.345e4	6.655e3	4.155e3	1.80	NO	1.081e4	0.905	0.905		
10 2,3,4,7,8-PeCDF	30.55	3.934e6	2.540e6	7.969e4	5.389e4	1.48	NO	1.336e5	10.4	10.4		
11 Total Penta-Furans	30.56	4.354e6	2.774e6	2.493e5	1.584e5	1.57	NO	0.000e0	0.000	34.1		
12 Total Penta-Furans	30.85	3.248e4	1.840e4	3.172e3	1.540e3	2.06	YES	0.000e0	0.000	0.329		
13 Total Penta-Furans	31.49	2.691e5	1.704e5	1.606e4	1.002e4	1.80	NO	2.608e4	2.18	2.18		



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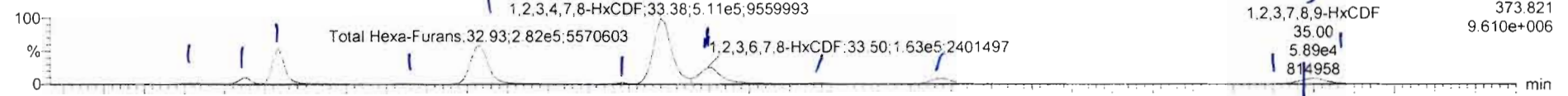
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

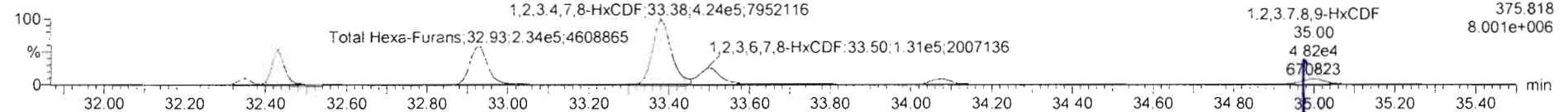
Name: 200229R1_11, Date: 29-Feb-2020, Time: 19:08:42, ID: 1903737-07RE1 PDI-052SC-B-04-06-191015 16.92, Description: PDI-052SC-B-04-06-191015

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

200229R1_11

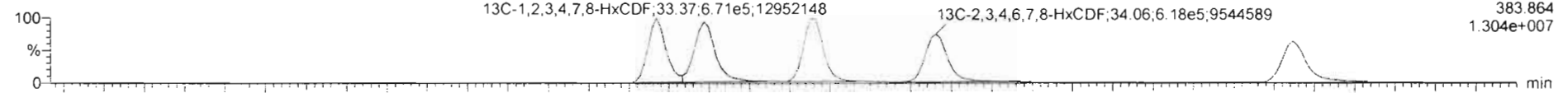


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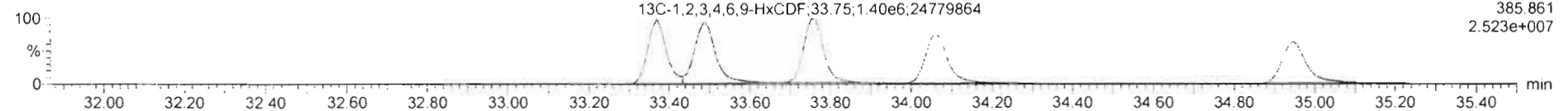


13C-1,2,3,4,7,8-HxCDF

200229R1_11

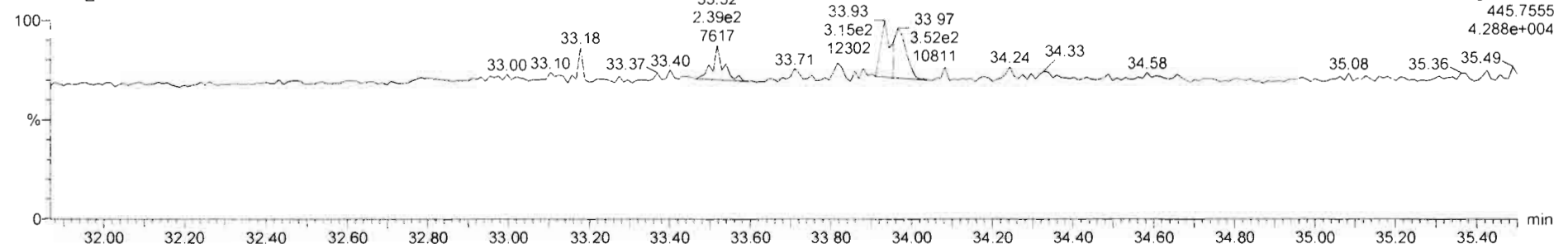


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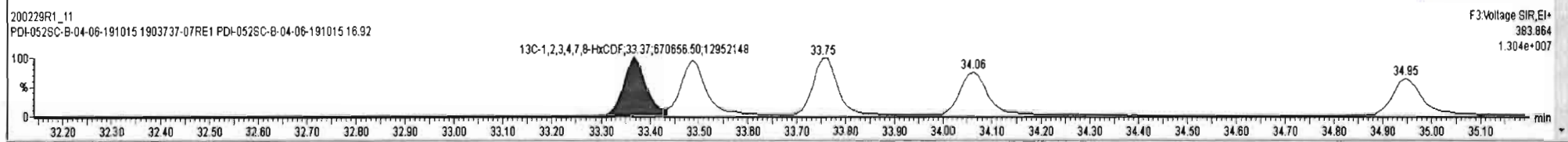
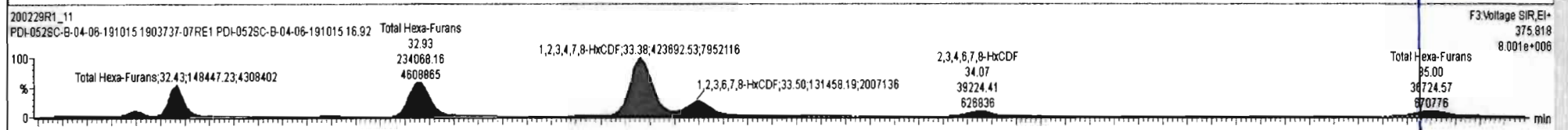
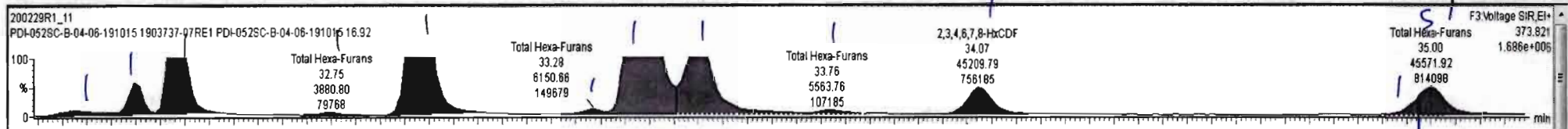
DPE3

200229R1_11



#	Name	Resp	RA	n/y	RF	wtAval	Pred_RT	RT	Pred_R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.8982	10.012	33.58		0.000		NO	278.5		0.215	278.5

#	Name	Pred_RT	RT /	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.58	32.22	9.657e3	7.454e3	1.240	1.30	NO	1.9949	1.9949
2	46 Total Hexa-Furans	33.58	32.35	3.174e4	2.711e4	1.240	1.17	NO	6.8606	6.8606
3	46 Total Hexa-Furans	33.58	32.43	1.798e5	1.484e5	1.240	1.21	NO	38.267	38.267
4	46 Total Hexa-Furans	33.58	32.75	3.881e3	3.129e3	1.240	1.24	NO	0.81718	0.81718
5	46 Total Hexa-Furans	33.58	32.93	2.819e5	2.341e5	1.240	1.20	NO	60.147	60.147
6	46 Total Hexa-Furans	33.58	33.28	6.151e3	5.268e3	1.240	1.17	NO	1.3310	1.3310
7	11 1,2,3,4,7,8-HxCDF	33.37	33.38	5.111e5	4.237e5	1.240	1.21	NO	109.79	109.79
8	12 1,2,3,6,7,8-HxCDF	33.50	33.50	1.631e5	1.315e5	1.240	1.24	NO	32.704	32.704
9	46 Total Hexa-Furans	33.58	33.76	5.584e3	4.419e3	1.240	1.26	NO	1.1638	1.1638
10	13 2,3,4,6,7,8-HxCDF	34.10	34.07	4.521e4	3.922e4	1.240	1.15	NO	10.456	10.456
11	14 1,2,3,7,8,9-HxCDF	34.95	34.98	1.358e4	1.157e4	1.240	1.17	NO	3.3979	3.3979
12	46 Total Hexa-Furans	33.58	35.00	4.557e4	3.672e4	1.240	1.24	NO	9.5942	9.5942



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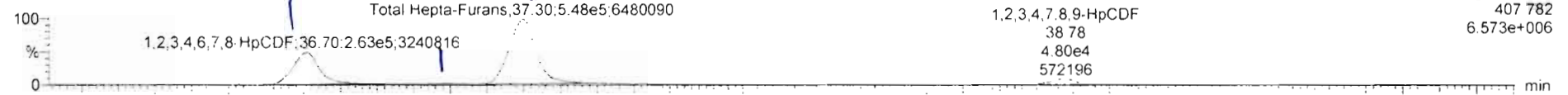
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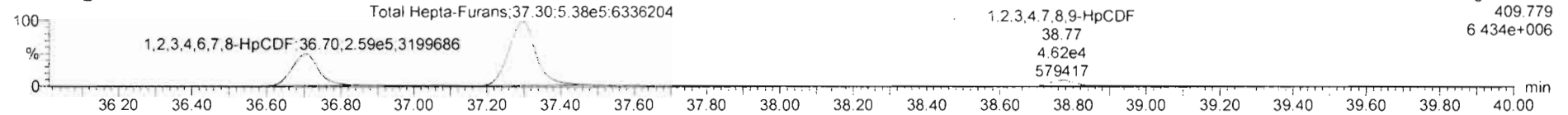
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1,2,3,4,6,7,8-HpCDF

200229R1_11

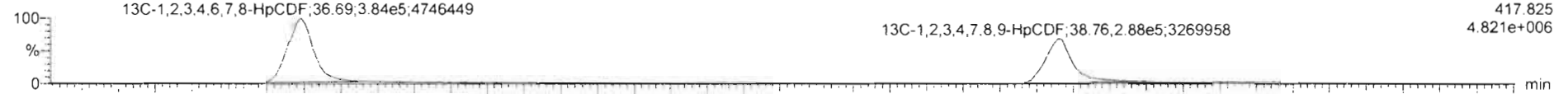


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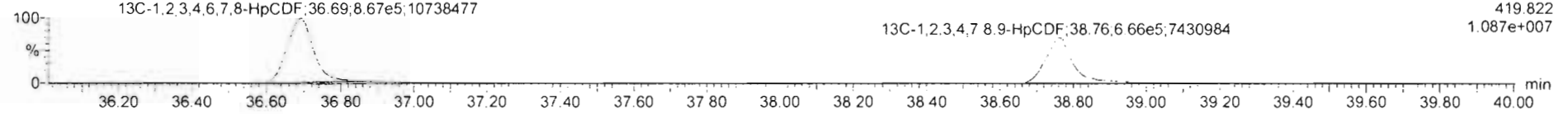


13C-1,2,3,4,6,7,8-HpCDF

200229R1_11

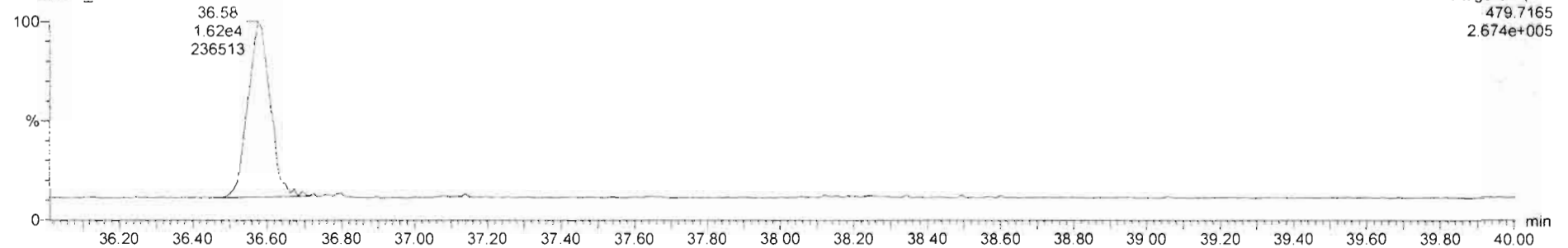


200229R1_11



DPE4

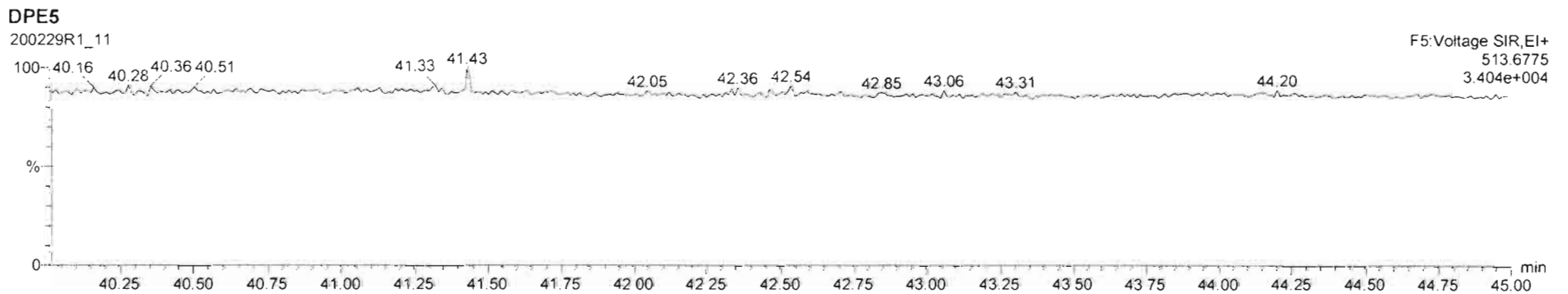
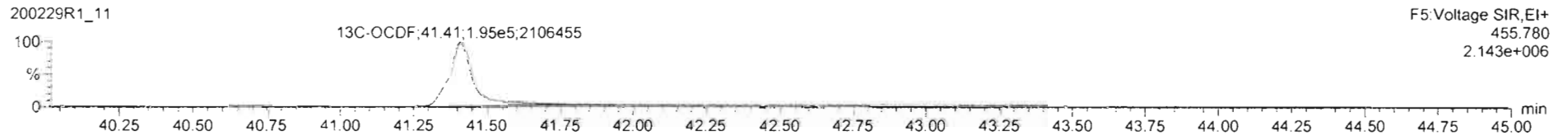
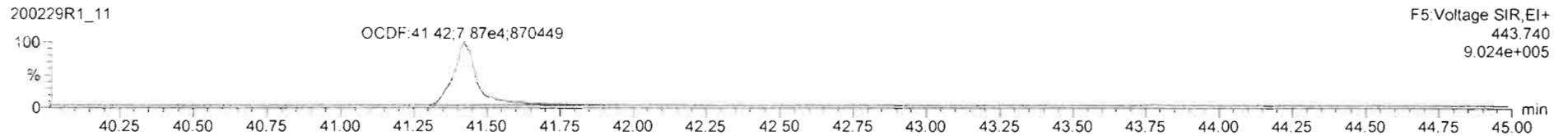
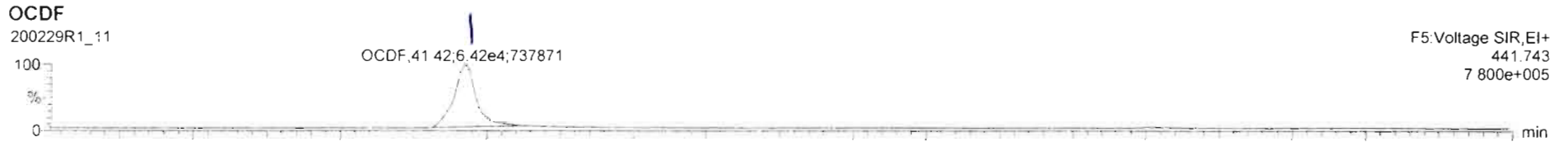
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

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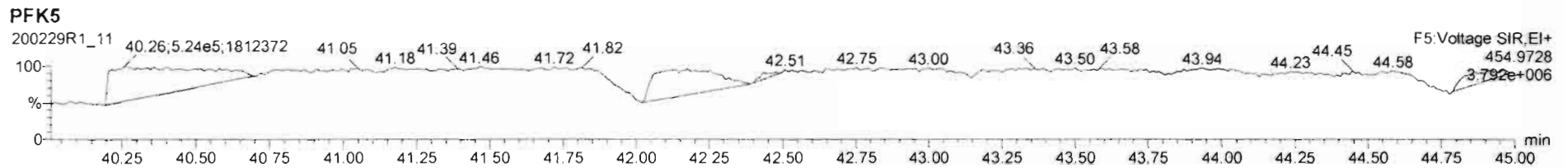
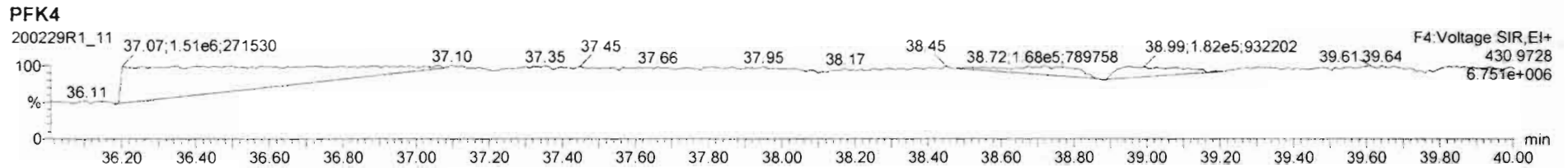
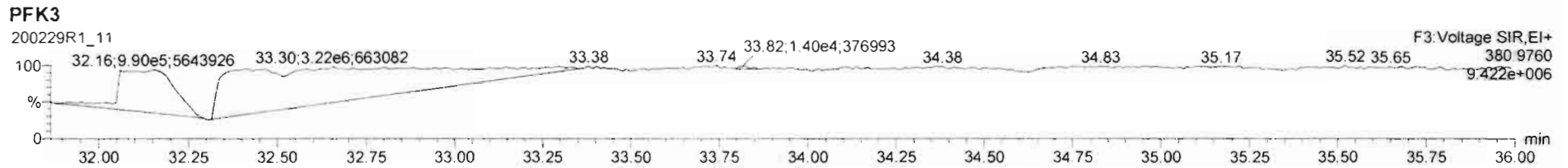
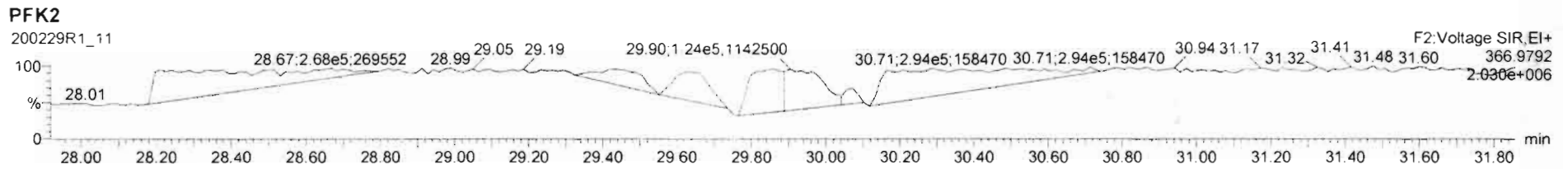
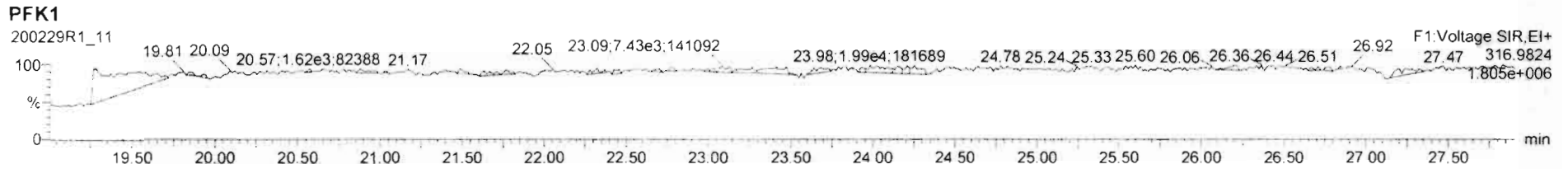


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Dataset: U:\VG12.PRO\Results\200229R1\200229R1-12.qld

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dy 03-18-2020
3/18/20 *0703/19/2020*

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#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.99e3	2.58e6	0.546	YES	10.01	25.75	25.75	1.00	1.00	NO	0.00057	0.046	0.31712	
2	2 1,2,3,7,8-PeCDD	3.15e3	2.06e6	0.572	NO	10.01	30.84	30.85	1.00	1.00	NO	0.31439		0.075	0.31439
3	3 1,2,3,4,7,8-HxCDD	2.74e3	1.57e6	1.414	NO	10.01	34.21	34.21	1.00	1.00	NO	0.32476		0.115	0.32476
4	4 1,2,3,6,7,8-HxCDD	1.43e4	1.97e6	1.323	NO	10.01	34.31	34.32	1.00	1.00	NO	1.5737		0.118	1.5737
5	5 1,2,3,7,8,9-HxCDD	7.02e3	1.77e6	1.212	NO	10.01	34.62	34.59	1.00	1.00	NO	0.86369		0.140	0.86369
6	6 1,2,3,4,6,7,8-HpCDD	3.58e5	1.57e6	1.018	NO	10.01	38.10	38.10	1.00	1.00	NO	49.285		0.482	49.285
7	7 OCDD	4.23e6	2.74e6	0.885	NO	10.01	41.21	41.22	1.00	1.00	NO	633.89		0.441	633.89
8	8 2,3,7,8-TCDF	1.85e5	3.12e6	0.759	NO	10.01	24.80	24.81	1.00	1.00	NO	14.746	(13.291)	0.101	14.746
9	9 1,2,3,7,8-PeCDF	1.82e5	2.78e6	1.576	NO	10.01	29.53	29.52	1.00	1.00	NO	14.413		0.099	14.413
10	10 2,3,4,7,8-PeCDF	1.12e5	2.72e6	1.595	NO	10.01	30.54	30.53	1.00	1.00	NO	8.6537		0.092	8.6537
11	11 1,2,3,4,7,8-HxCDF	2.18e5	1.97e6	1.210	NO	10.01	33.34	33.36	1.00	1.00	NO	25.582		0.113	25.582
12	12 1,2,3,6,7,8-HxCDF	7.23e4	2.22e6	1.230	NO	10.01	33.48	33.48	1.00	1.00	NO	7.7384		0.108	7.7384
13	13 2,3,4,6,7,8-HxCDF	1.89e4	2.01e6	1.305	NO	10.01	34.06	34.05	1.00	1.00	NO	2.0811		0.118	2.0811
14	14 1,2,3,7,8,9-HxCDF	1.14e4	1.80e6	1.188	NO	10.01	34.91	34.97	1.00	1.00	NO	1.4801		0.168	1.4801
15	15 1,2,3,4,6,7,8-HpCDF	1.49e5	1.58e6	1.005	NO	10.01	36.70	36.68	1.00	1.00	NO	22.144		0.182	22.144
16	16 1,2,3,4,7,8,9-HpCDF	2.93e4	1.22e6	1.024	NO	10.01	38.73	38.75	1.00	1.00	NO	4.9155		0.211	4.9155
17	17 OCDF	2.75e5	3.04e6	0.862	NO	10.01	41.38	41.39	1.00	1.00	NO	44.967		0.176	44.967
18	18 13C-2,3,7,8-TCDD	2.58e6	2.18e6	0.778	NO	10.01	25.69	25.72	1.03	1.03	NO	197.43	98.8	0.242	
19	19 13C-1,2,3,7,8-PeCDD	2.06e6	2.18e6	0.627	NO	10.01	30.82	30.82	1.23	1.23	NO	195.13	97.7	0.262	
20	20 13C-1,2,3,4,7,8-HxCDD	1.57e6	1.99e6	1.263	NO	10.01	34.20	34.20	1.01	1.01	NO	180.98	90.6	0.348	
21	21 13C-1,2,3,6,7,8-HxCDD	1.97e6	1.99e6	1.252	NO	10.01	34.31	34.31	1.02	1.02	NO	189.05	94.6	0.291	
22	22 13C-1,2,3,7,8,9-HxCDD	1.77e6	1.99e6	1.241	NO	10.01	34.61	34.58	1.03	1.03	NO	182.42	91.3	0.312	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.57e6	1.99e6	1.035	NO	10.01	38.18	38.09	1.13	1.13	NO	211.42	105.8	0.321	
24	24 13C-OCDD	2.74e6	1.99e6	0.889	NO	10.01	41.09	41.21	1.22	1.22	NO	389.20	97.4	0.474	
25	25 13C-2,3,7,8-TCDF	3.12e6	2.91e6	0.787	NO	10.01	24.87	24.78	0.99	0.99	NO	200.93	100.6	0.327	
26	26 13C-1,2,3,7,8-PeCDF	2.78e6	2.91e6	1.574	NO	10.01	29.46	29.51	1.18	1.18	NO	190.40	95.3	0.399	
27	27 13C-2,3,4,7,8-PeCDF	2.72e6	2.91e6	1.581	NO	10.01	30.42	30.51	1.21	1.22	NO	193.68	96.9	0.416	
28	28 13C-1,2,3,4,7,8-HxCDF	1.97e6	1.99e6	0.512	NO	10.01	33.33	33.34	0.99	0.99	NO	188.73	94.5	0.354	
29	29 13C-1,2,3,6,7,8-HxCDF	2.22e6	1.99e6	0.514	NO	10.01	33.43	33.47	0.99	0.99	NO	187.45	93.8	0.312	
30	30 13C-2,3,4,6,7,8-HxCDF	2.01e6	1.99e6	0.516	NO	10.01	34.04	34.03	1.01	1.01	NO	189.87	95.0	0.348	
31	31 13C-1,2,3,7,8,9-HxCDF	1.80e6	1.99e6	0.539	NO	10.01	34.95	34.91	1.04	1.04	NO	195.78	98.0	0.403	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.58e6	1.99e6	0.441	NO	10.01	36.70	36.66	1.09	1.09	NO	207.43	103.8	0.443	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-12.qld

Last Altered: Wednesday, March 18, 2020 10:14:52 Pacific Daylight Time

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Name: 200229R1_12, Date: 29-Feb-2020, Time: 19:56:07, ID: 1903737-08RE1 PDI-052SC-B-06-08-191015 13.87, Description: PDI-052SC-B-06-08-191015

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.22e6	1.99e6	0.431	NO	10.01	38.72	38.73	1.15	1.15	NO	221.06	110.7	0.615	
34	34 13C-OCDF	3.04e6	1.99e6	0.876	NO	10.01	41.32	41.38	1.23	1.23	NO	386.77	96.8	0.314	
35	35 37Cl-2,3,7,8-TCDD	9.31e5	2.18e6			10.01	25.72	25.75	1.03	1.03	NO	72.522	90.8	0.074	
36	36 13C-1,2,3,4-TCDD	2.18e6	2.18e6	0.784	NO	10.01	25.11	25.05	1.00	1.00	NO	199.78	100.0	0.290	
37	37 13C-1,2,3,4-TCDF	2.91e6	2.91e6	0.775	NO	10.01	23.37	23.28	1.00	1.00	NO	199.78	100.0	0.349	
38	38 13C-1,2,3,4,6,9-HxCDF	1.99e6	1.99e6	0.517	NO	10.01	33.71	33.73	1.00	1.00	NO	199.78	100.0	0.371	
39	39 Total Tetra-Dioxins		2.58e6			10.01	24.62		0.00		NO	1.2163		0.046	1.6412
40	40 Total Penta-Dioxins		2.06e6			10.01	29.96		0.00		NO	2.4231		0.075	2.6068
41	41 Total Hexa-Dioxins		0.00e0			10.01	33.63		0.00		NO	15.912		0.130	15.912
42	42 Total Hepta-Dioxins		1.57e6			10.01	37.64		0.00		NO	111.80		0.482	111.80
43	43 Total Tetra-Furans		3.12e6			10.01	23.61		0.00		NO	52.335		0.101	53.864
44	44 1st Func. Penta-Furans		0.00e0			10.01	27.09		0.00		NO	4.6944		0.025	4.6944
45	45 Total Penta-Furans		0.00e0			10.01	29.27		0.00		NO	44.423		0.097	44.423
46	46 Total Hexa-Furans		0.00e0			10.01	33.56		0.00		NO	56.284		0.120	56.284
47	47 Total Hepta-Furans		0.00e0			10.01	37.83		0.00		NO	59.206		0.208	59.435

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-12.qld

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Name: 200229R1_12, Date: 29-Feb-2020, Time: 19:56:07

Tetra-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	1 2,3,7,8-TCDD	25.75	0.546	YES	1.76e3	1.13e6	0.000	0.317
2	39 Total Tetra-Dioxins	25.47	0.895	YES	6.95e2	1.13e6	0.000	0.108
3	39 Total Tetra-Dioxins	23.97	0.791	NO	1.00e3	1.13e6	0.177	0.177
4	39 Total Tetra-Dioxins	23.46	0.736	NO	1.61e3	1.13e6	0.296	0.296
5	39 Total Tetra-Dioxins	21.99	0.699	NO	9.25e2	1.13e6	0.176	0.176
6	39 Total Tetra-Dioxins	21.60	0.812	NO	3.24e3	1.13e6	0.566	0.566

Penta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	31.22	0.679	NO	4.47e2	7.93e5	0.110	0.110
2	40 Total Penta-Dioxins	30.93	0.710	NO	3.54e2	7.93e5	0.0852	0.0852
3	2 1,2,3,7,8-PeCDD	30.85	0.572	NO	1.15e3	7.93e5	0.314	0.314
4	40 Total Penta-Dioxins	30.42	1.019	YES	4.18e2	7.93e5	0.000	0.0668
5	40 Total Penta-Dioxins	30.07	0.653	NO	1.30e3	7.93e5	0.328	0.328
6	40 Total Penta-Dioxins	29.86	0.898	YES	6.45e2	7.93e5	0.000	0.117
7	40 Total Penta-Dioxins	29.75	0.627	NO	8.09e2	7.93e5	0.210	0.210
8	40 Total Penta-Dioxins	29.58	0.694	NO	1.65e3	7.93e5	0.401	0.401
9	40 Total Penta-Dioxins	29.07	0.661	NO	9.56e2	7.93e5	0.240	0.240
10	40 Total Penta-Dioxins	28.59	0.693	NO	3.01e3	7.93e5	0.734	0.734

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	3 1,2,3,4,7,8-HxCDD	34.21	1.414	NO	1.61e3	8.78e5	0.325	0.325
2	41 Total Hexa-Dioxins	33.55	1.214	NO	2.62e4	9.84e5	5.86	5.86
3	41 Total Hexa-Dioxins	33.29	1.262	NO	3.66e3	9.84e5	0.803	0.803
4	41 Total Hexa-Dioxins	32.75	1.272	NO	2.87e4	9.84e5	6.29	6.29
5	5 1,2,3,7,8,9-HxCDD	34.59	1.212	NO	3.85e3	9.80e5	0.864	0.864
6	41 Total Hexa-Dioxins	34.50	1.421	NO	9.47e2	9.84e5	0.198	0.198
7	4 1,2,3,6,7,8-HxCDD	34.32	1.323	NO	8.13e3	1.09e6	1.57	1.57

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-12.qld

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Hepta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	38.10	1.018	NO	1.81e5	8.00e5	49.3	49.3
2	42 Total Hepta-Dioxins	37.06	1.023	NO	2.30e5	8.00e5	62.5	62.5

Tetra-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	24.13	0.743	NO	3.10e3	1.37e6	0.580	0.580
2	43 Total Tetra-Furans	23.83	0.762	NO	7.76e4	1.37e6	14.3	14.3
3	43 Total Tetra-Furans	23.28	0.744	NO	3.14e4	1.37e6	5.88	5.88
4	43 Total Tetra-Furans	23.18	0.730	NO	2.95e3	1.37e6	0.559	0.559
5	43 Total Tetra-Furans	23.03	0.822	NO	6.06e2	1.37e6	0.107	0.107
6	43 Total Tetra-Furans	22.86	0.715	NO	9.57e2	1.37e6	0.183	0.183
7	43 Total Tetra-Furans	22.38	0.772	NO	4.56e3	1.37e6	0.835	0.835
8	43 Total Tetra-Furans	22.19	0.716	NO	5.95e2	1.37e6	0.114	0.114
9	43 Total Tetra-Furans	22.02	0.760	NO	8.51e3	1.37e6	1.57	1.57
10	43 Total Tetra-Furans	21.56	0.760	NO	2.65e4	1.37e6	4.89	4.89
11	43 Total Tetra-Furans	21.17	0.779	NO	5.61e3	1.37e6	1.02	1.02
12	43 Total Tetra-Furans	20.63	0.786	NO	1.11e4	1.37e6	2.01	2.01
13	43 Total Tetra-Furans	20.06	0.784	NO	1.76e3	1.37e6	0.321	0.321
14	43 Total Tetra-Furans	19.55	0.833	NO	9.24e2	1.37e6	0.162	0.162
15	43 Total Tetra-Furans	26.89	0.994	YES	1.08e4	1.37e6	0.000	1.53
16	43 Total Tetra-Furans	25.45	0.740	NO	1.15e3	1.37e6	0.216	0.216
17	43 Total Tetra-Furans	25.20	0.795	NO	4.47e3	1.37e6	0.806	0.806
18	8 2,3,7,8-TCDF	24.81	0.759	NO	7.97e4	1.37e6	14.7	14.7
19	43 Total Tetra-Furans	24.69	0.724	NO	1.91e4	1.37e6	3.64	3.64
20	43 Total Tetra-Furans	24.34	0.785	NO	1.98e3	1.37e6	0.360	0.360

Penta-Furans function 1

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.90	1.478	NO	3.49e4	1.68e6	4.69	4.69

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Penta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	30.53	1.595	NO	6.88e4	1.66e6	8.65	8.65
2	45 Total Penta-Furans	30.41	1.757	NO	1.06e3	1.68e6	0.133	0.133
3	45 Total Penta-Furans	29.80	1.549	NO	4.21e4	1.68e6	5.55	5.55
4	9 1,2,3,7,8-PeCDF	29.52	1.576	NO	1.11e5	1.70e6	14.4	14.4
5	45 Total Penta-Furans	29.34	1.564	NO	1.79e4	1.68e6	2.36	2.36
6	45 Total Penta-Furans	29.11	1.613	NO	2.03e4	1.68e6	2.64	2.64
7	45 Total Penta-Furans	28.53	1.579	NO	7.56e4	1.68e6	9.89	9.89
8	45 Total Penta-Furans	28.38	1.432	NO	2.47e3	1.68e6	0.337	0.337
9	45 Total Penta-Furans	31.46	1.429	NO	3.29e3	1.68e6	0.448	0.448

Hexa-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	34.97	1.188	NO	6.20e3	6.29e5	1.48	1.48
2	13 2,3,4,6,7,8-HxCDF	34.05	1.305	NO	1.07e4	6.86e5	2.08	2.08
3	46 Total Hexa-Furans	33.74	1.288	NO	1.31e3	6.84e5	0.259	0.259
4	12 1,2,3,6,7,8-HxCDF	33.48	1.230	NO	3.99e4	7.54e5	7.74	7.74
5	11 1,2,3,4,7,8-HxCDF	33.36	1.210	NO	1.19e5	6.68e5	25.6	25.6
6	46 Total Hexa-Furans	33.25	1.386	NO	1.60e3	6.84e5	0.306	0.306
7	46 Total Hexa-Furans	32.90	1.198	NO	3.88e4	6.84e5	7.91	7.91
8	46 Total Hexa-Furans	32.71	1.305	NO	6.87e2	6.84e5	0.135	0.135
9	46 Total Hexa-Furans	32.36	1.213	NO	3.36e4	6.84e5	6.82	6.82
10	46 Total Hexa-Furans	32.19	1.209	NO	1.15e4	6.84e5	2.34	2.34
11	46 Total Hexa-Furans	34.98	1.220	NO	8.05e3	6.84e5	1.63	1.63

Hepta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	47 Total Hepta-Furans	37.27	1.002	NO	9.59e4	4.25e5	32.1	32.1
2	47 Total Hepta-Furans	37.06	0.799	YES	6.98e2	4.25e5	0.000	0.230
3	15 1,2,3,4,6,7,8-HpCDF	36.68	1.005	NO	7.49e4	4.85e5	22.1	22.1
4	16 1,2,3,4,7,8,9-HpCDF	38.75	1.024	NO	1.48e4	3.66e5	4.92	4.92

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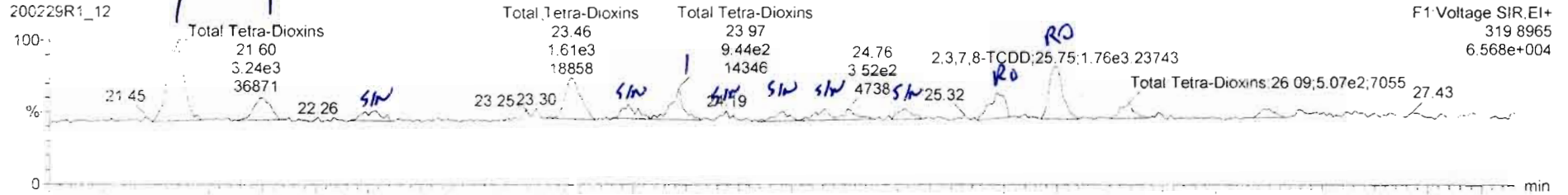
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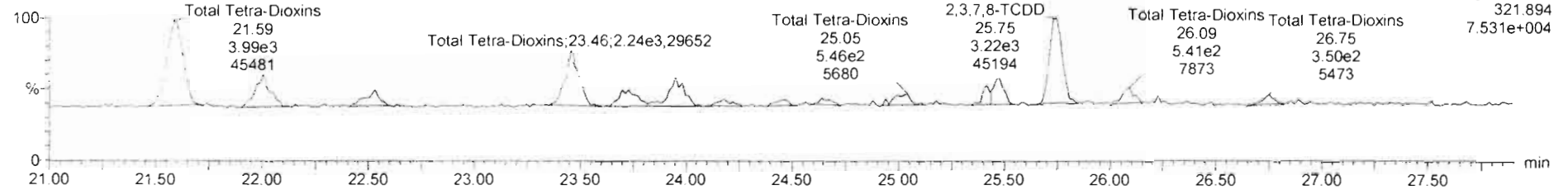
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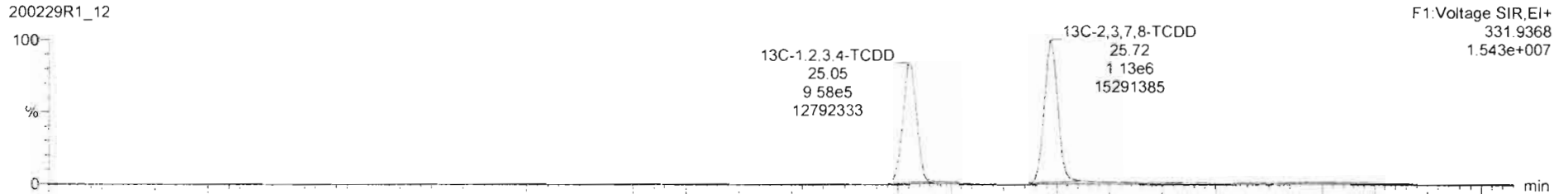
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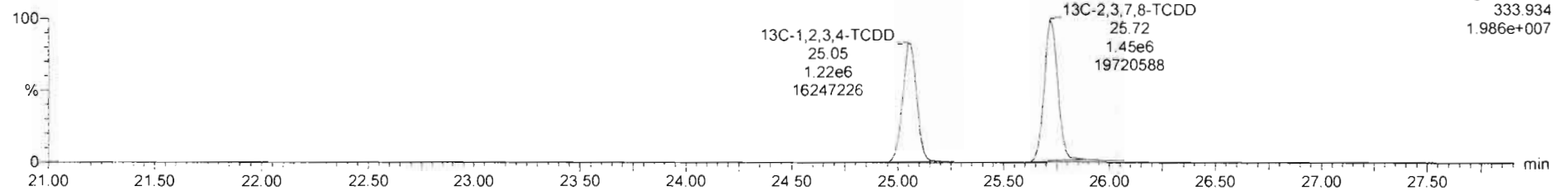
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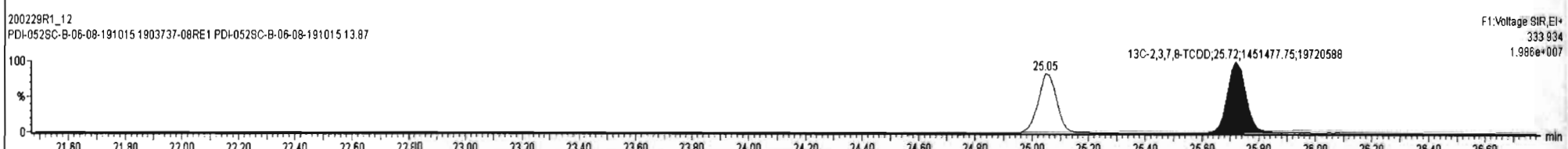
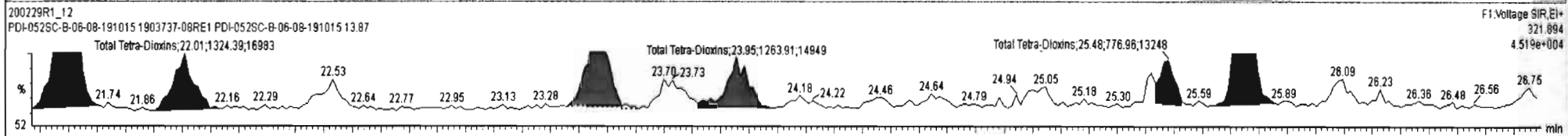
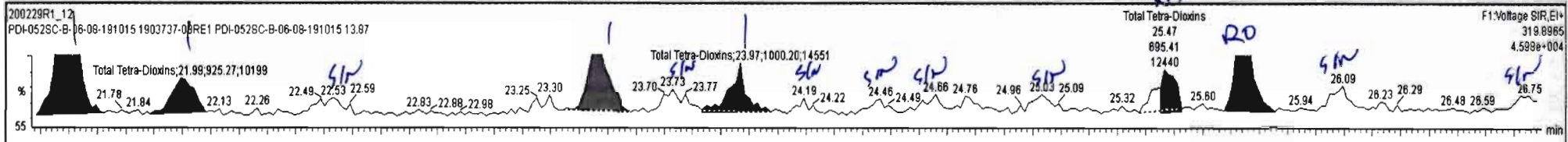


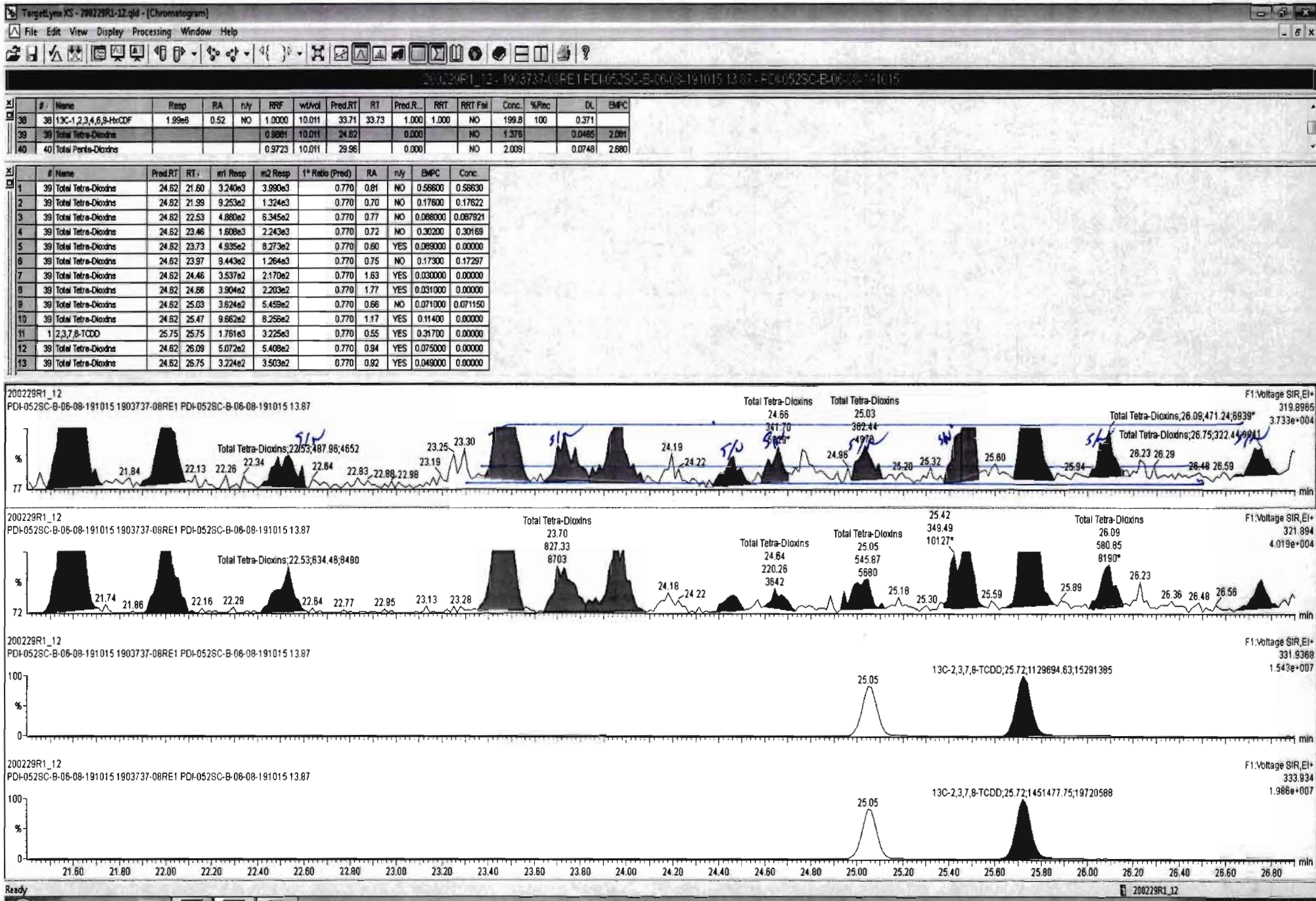
200229R1_12



#	Name	Resp	RA	n/y	RPF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	1.99e6	0.52	NO	1.0000	10.011	33.71	33.73	1.000	1.000	NO	189.8	100	0.371	
39	Total Tetra-Dioxins				0.9981	10.011	24.82		0.000		NO	1.216		0.0485	1.641
40	Total Penta-Dioxins				0.9723	10.011	29.96		0.000		NO	2.008		0.0748	2.680

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.82	21.80	3.240e3	3.990e3	0.770	0.81	NO	0.56630	0.56630
2	39 Total Tetra-Dioxins	24.82	21.99	9.253e2	1.324e3	0.770	0.70	NO	0.17622	0.17622
3	39 Total Tetra-Dioxins	24.82	23.46	1.605e3	2.160e3	0.770	0.74	NO	0.29645	0.29645
4	39 Total Tetra-Dioxins	24.82	23.97	1.000e3	1.264e3	0.770	0.79	NO	0.17735	0.17735
5	39 Total Tetra-Dioxins	24.82	25.47	6.954e2	7.770e2	0.770	0.89	YES	0.10772	0.00000
6	1 2,3,7,8-TCDD	25.75	25.75	1.781e3	3.225e3	0.770	0.55	YES	0.31712	0.00000





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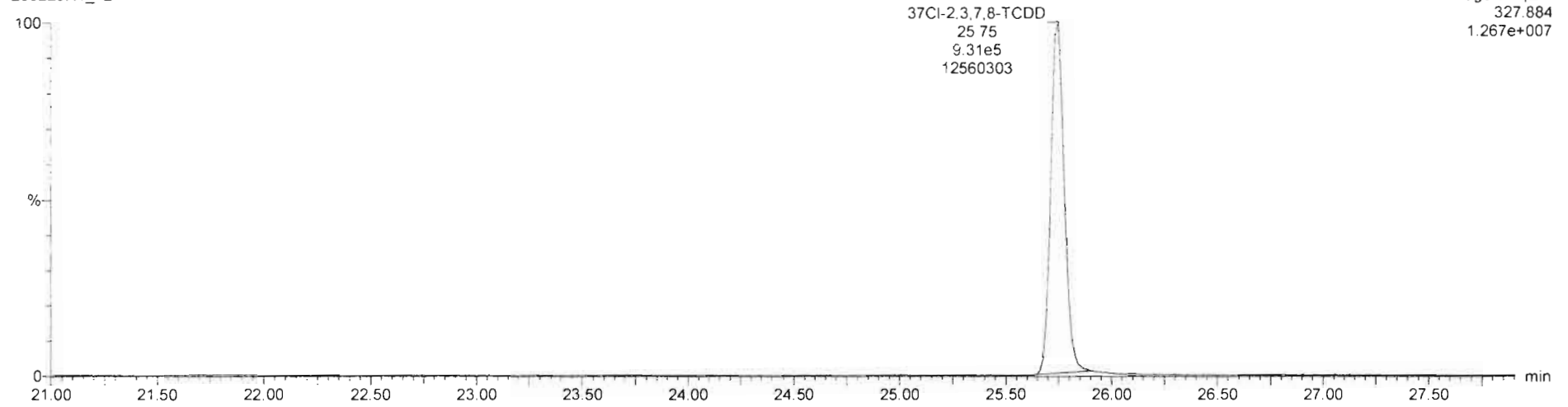
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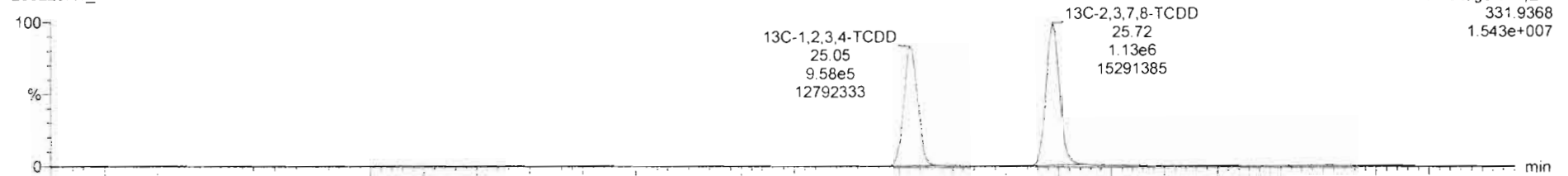
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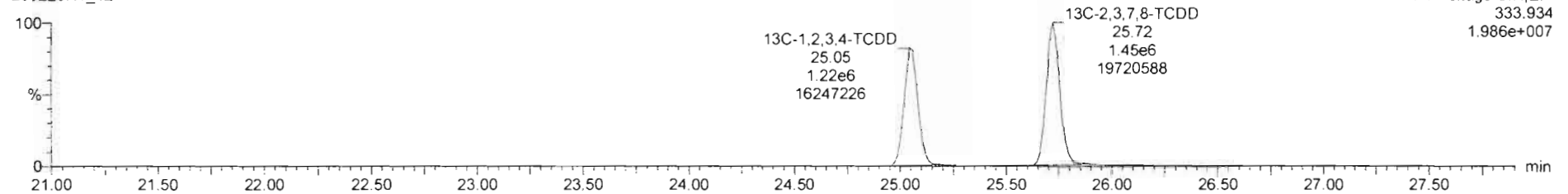


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200229R1_12



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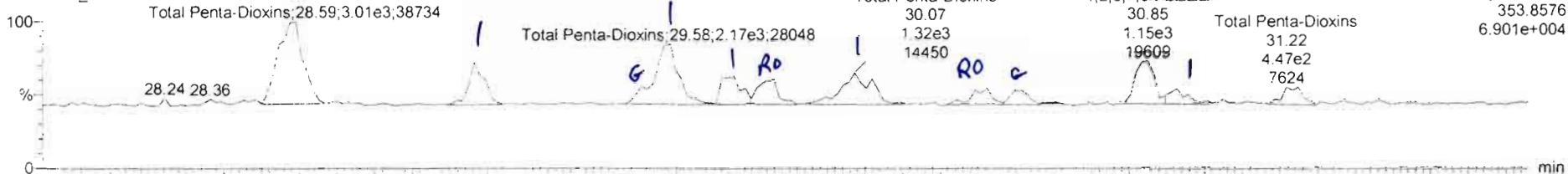
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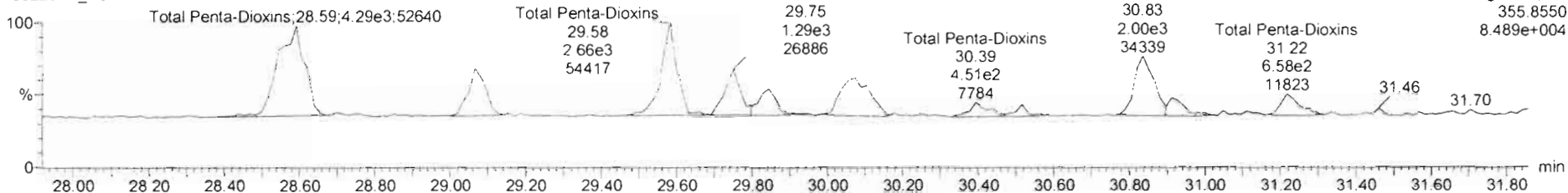
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1,2,3,7,8-PeCDD

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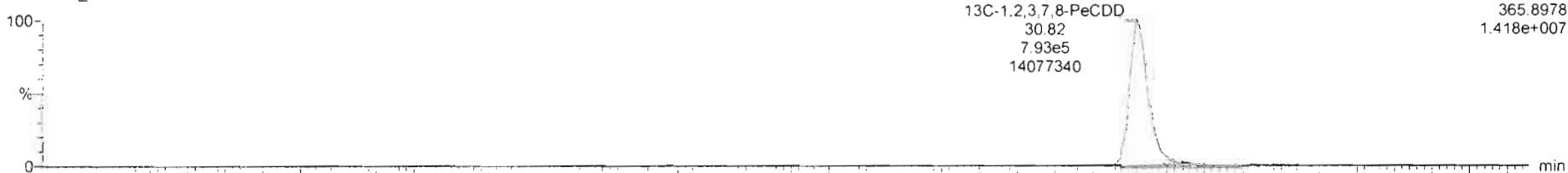


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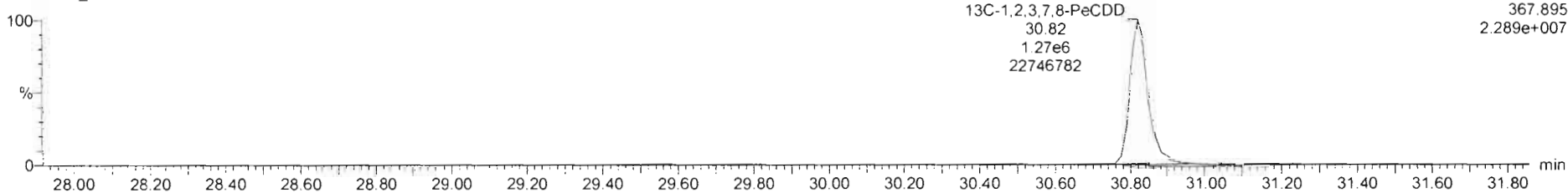


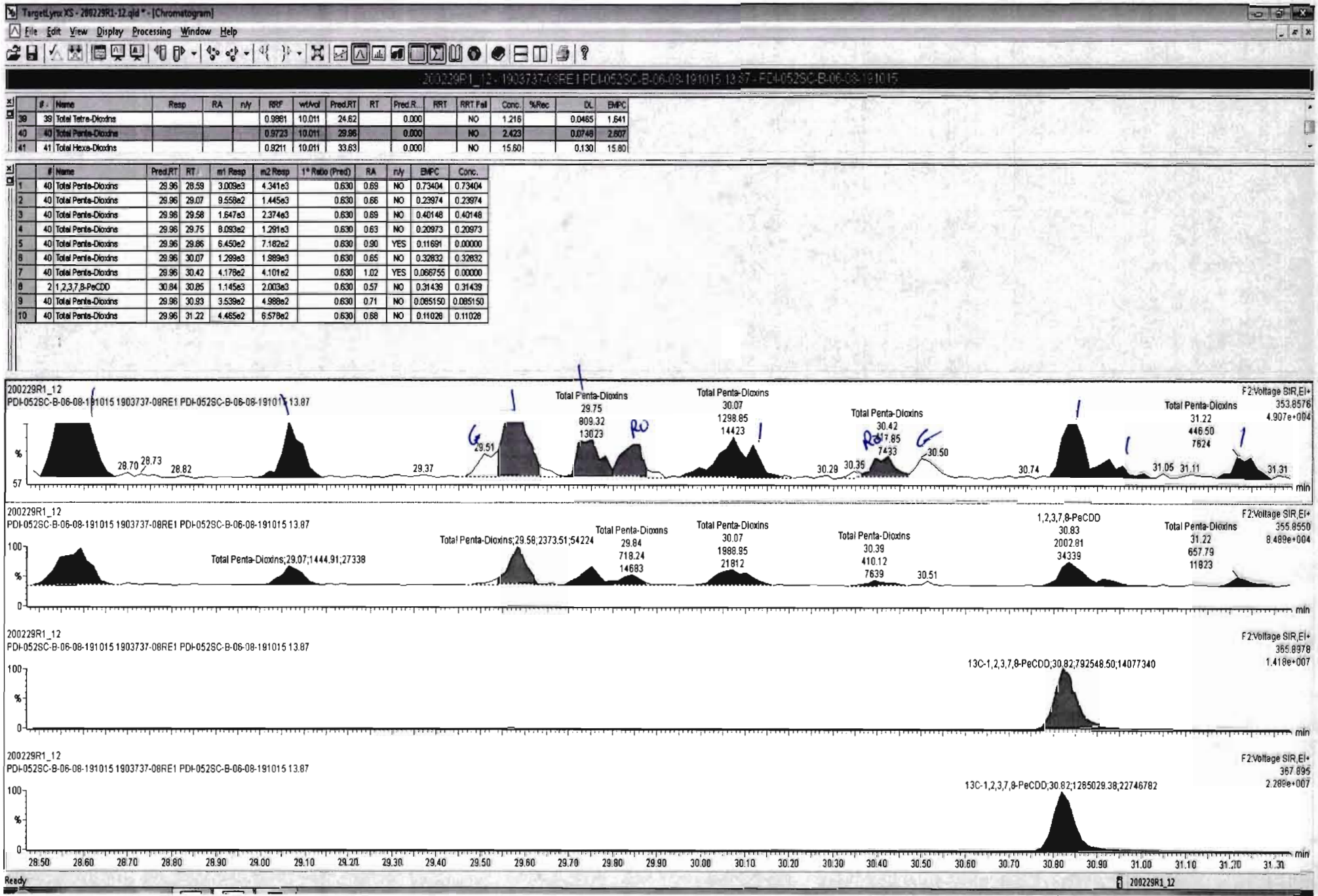
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200229R1_12





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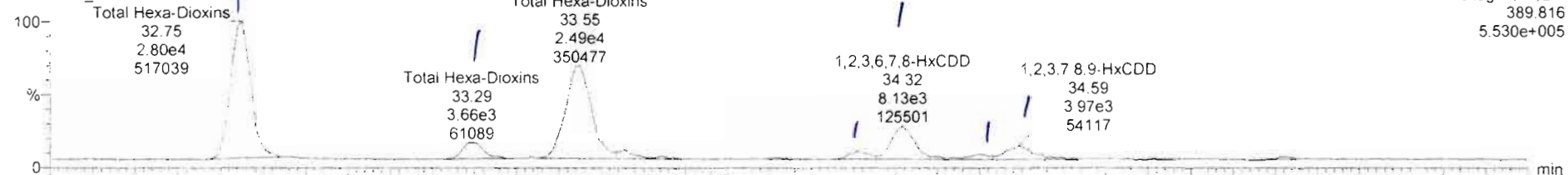
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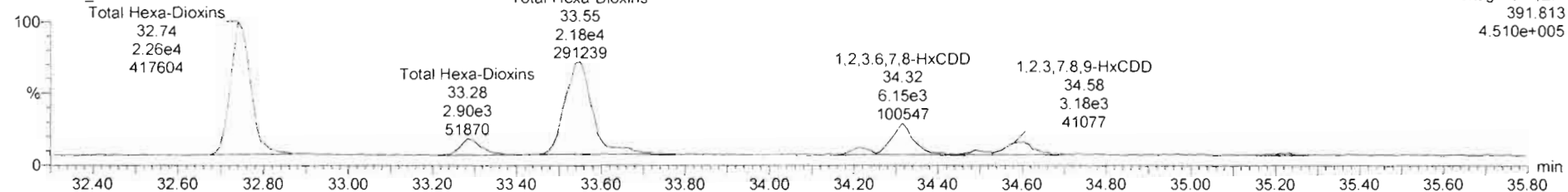
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1,2,3,4,7,8-HxCDD

200229R1_12

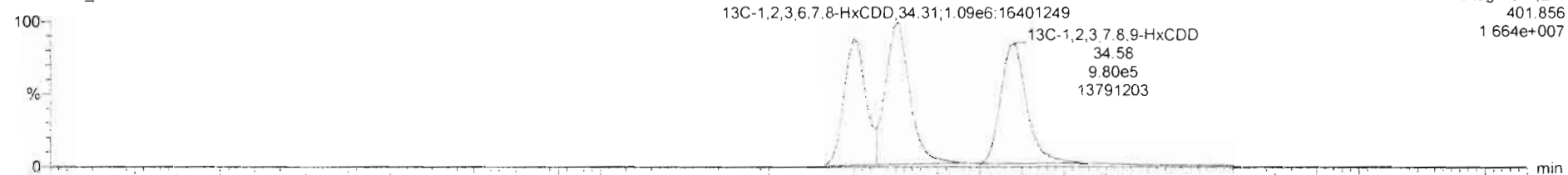


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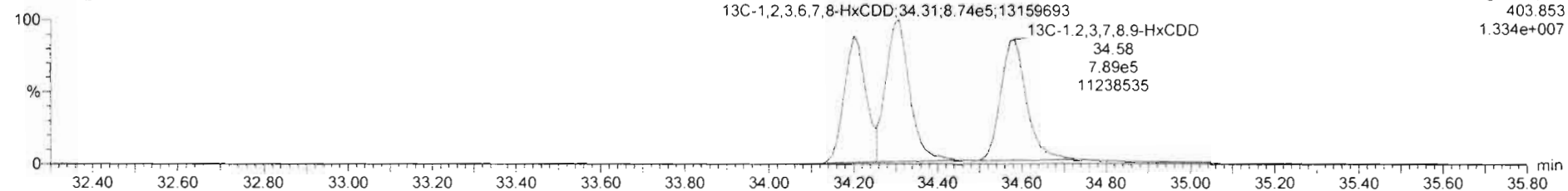


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200229R1_12



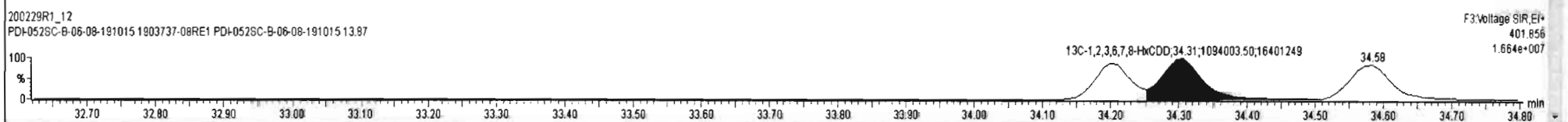
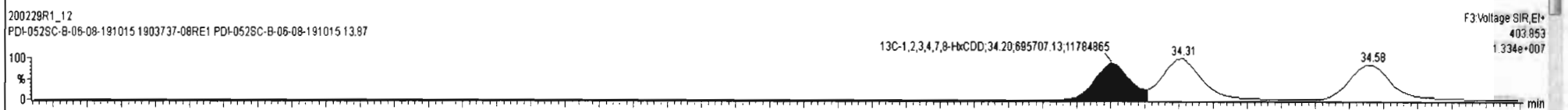
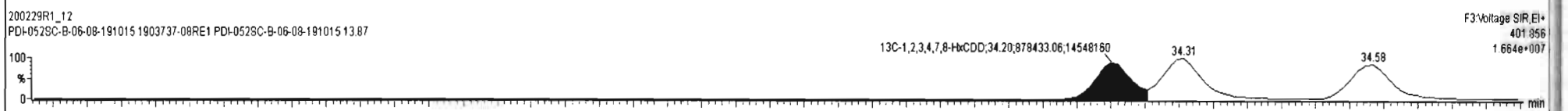
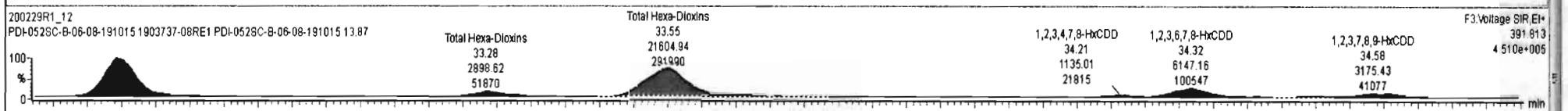
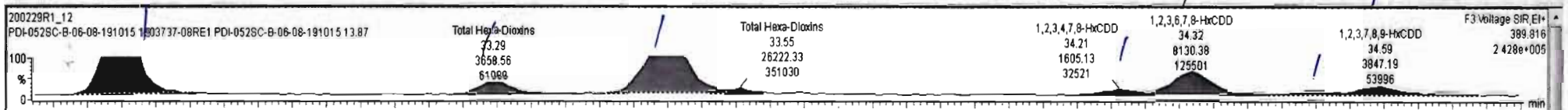
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200229R1_12 - 1903737-08RE1 PDI-052SC-B-06-08-191015 13:87 - PDI-052SC-B-06-08-191015

#	Name	Resp	RA	n/y	RRF	wtVid	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	10.011	33.63		0.000		NO	15.91		0.130	15.91
42	Total Hepta-Dioxins				0.9231	10.011	37.64		0.000		NO	112.0		0.482	112.0
43	Total Tetra-Furens				0.8020	10.011	23.61		0.000		NO	51.36		0.101	52.94

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.75	2.874e4	2.269e4	1.240	1.27	NO	6.2894	6.2894
2	41 Total Hexa-Dioxins	33.63	33.29	3.659e3	2.689e3	1.240	1.26	NO	0.80332	0.80332
3	41 Total Hexa-Dioxins	33.63	33.55	2.622e4	2.160e4	1.240	1.21	NO	5.8593	5.8593
4	3 1,2,3,4,7,8-HxCDD	34.21	34.21	1.605e3	1.135e3	1.240	1.41	NO	0.32476	0.32476
5	4 1,2,3,6,7,8-HxCDD	34.31	34.32	8.130e3	6.147e3	1.240	1.32	NO	1.5737	1.5737
6	41 Total Hexa-Dioxins	33.63	34.50	9.472e2	6.687e2	1.240	1.42	NO	0.19772	0.19772
7	5 1,2,3,7,8,9-HxCDD	34.62	34.59	3.847e3	3.175e3	1.240	1.21	NO	0.86368	0.86368



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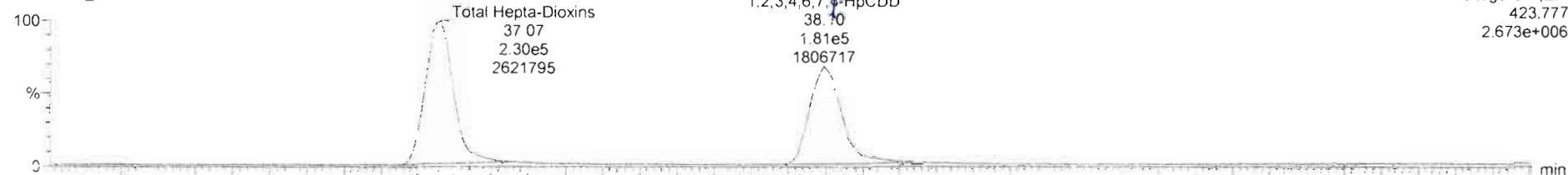
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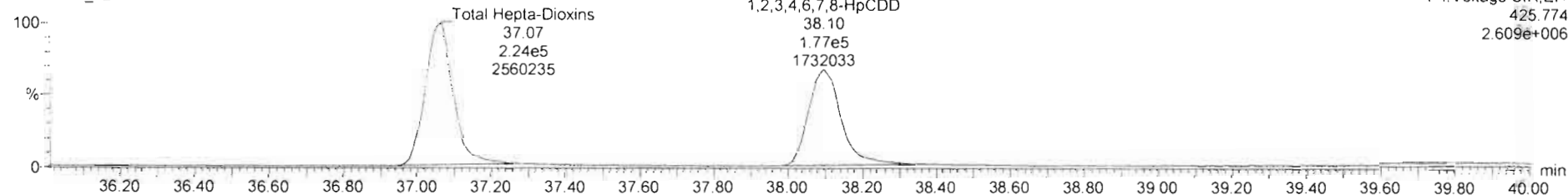
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1,2,3,4,6,7,8-HpCDD

200229R1_12

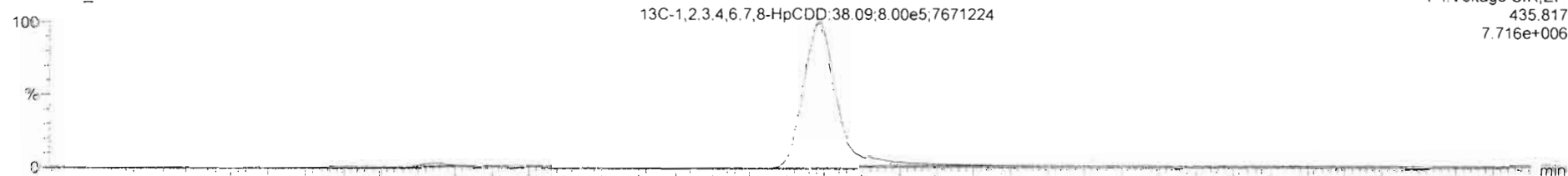


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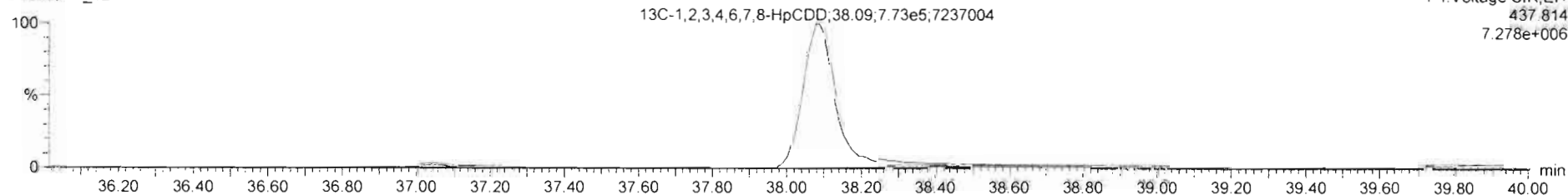


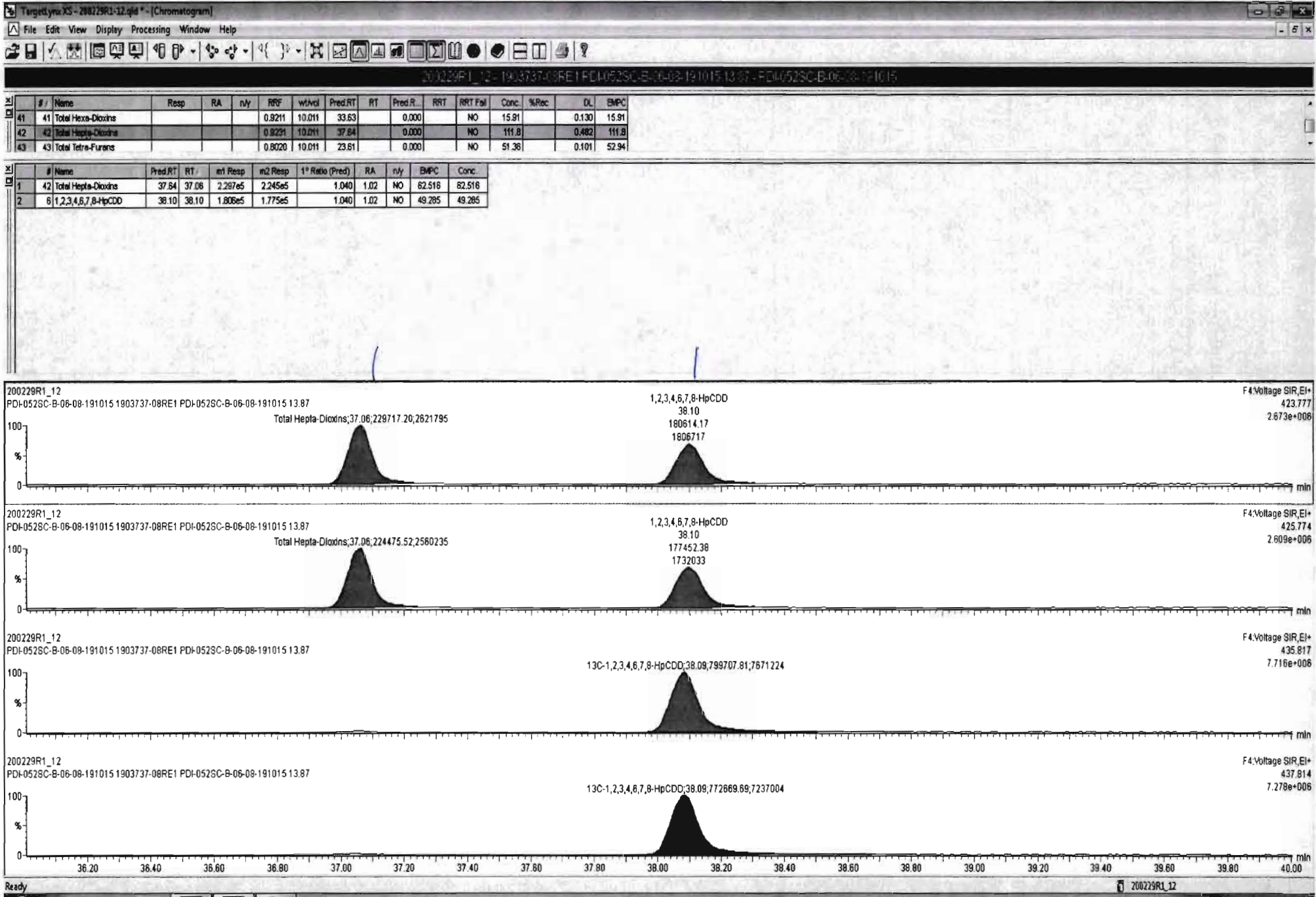
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200229R1_12



200229R1_12



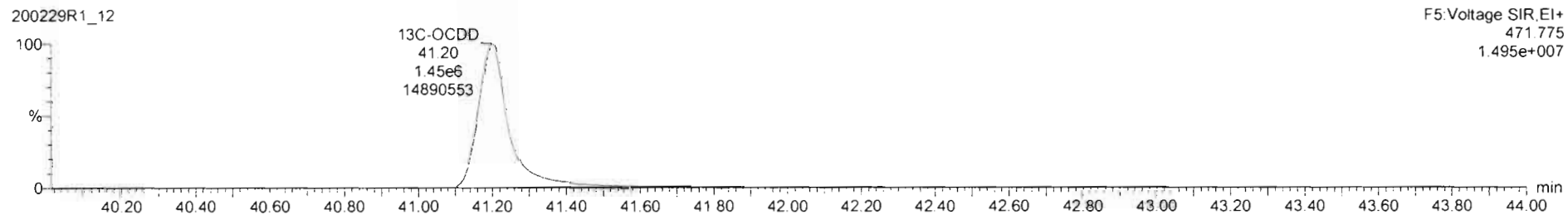
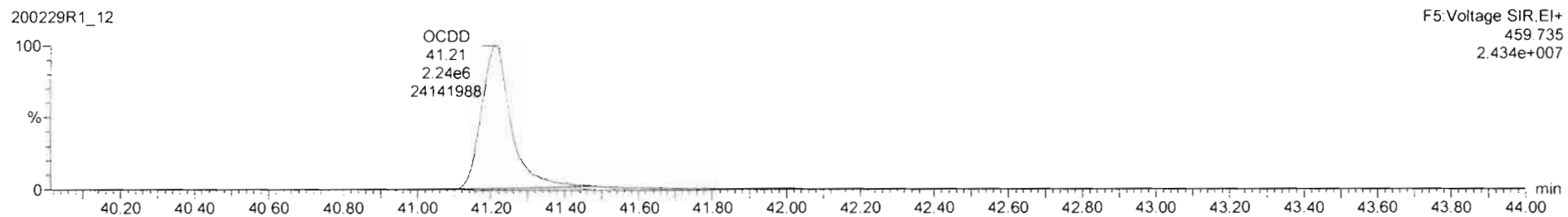
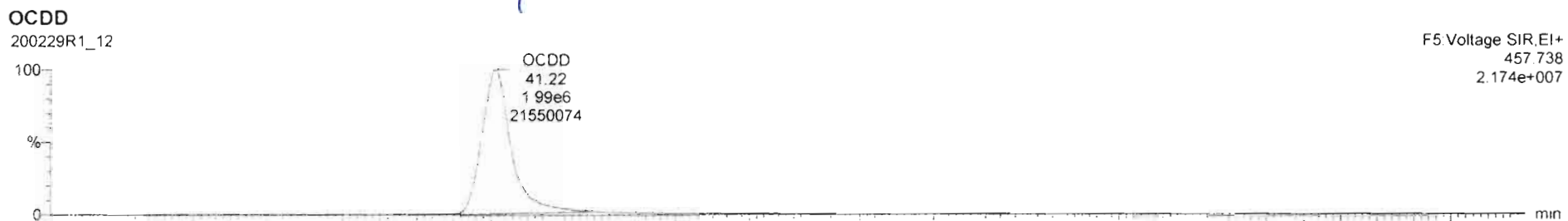


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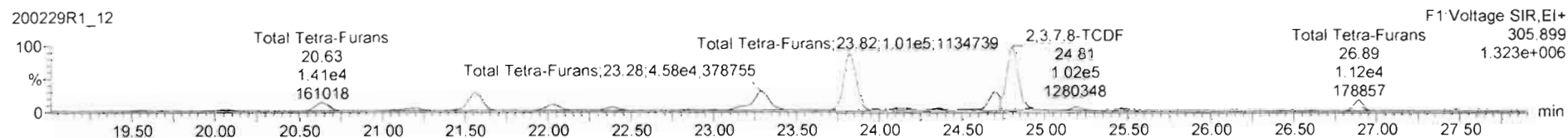
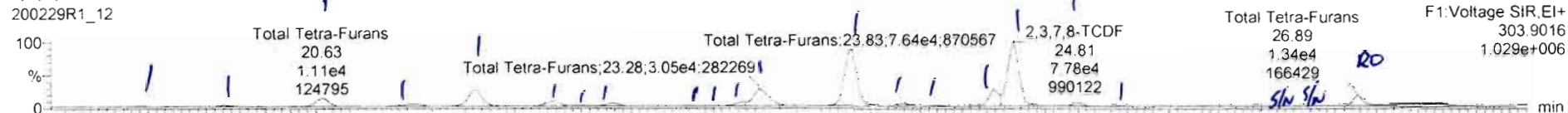


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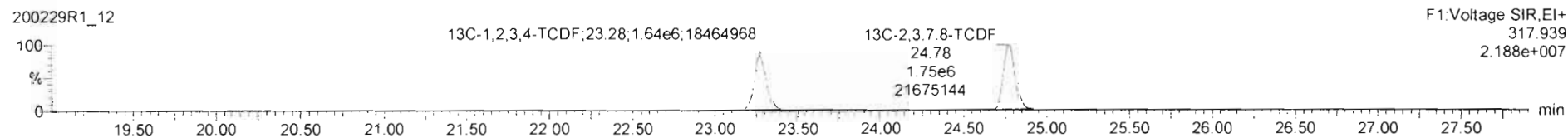
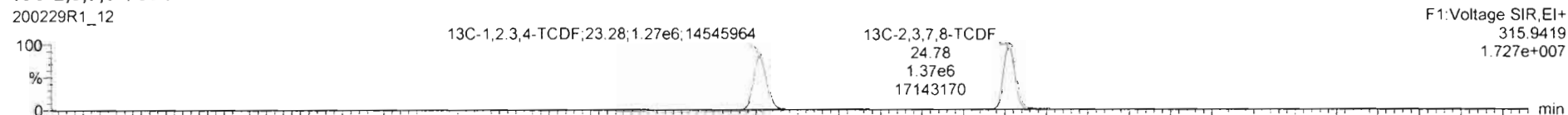
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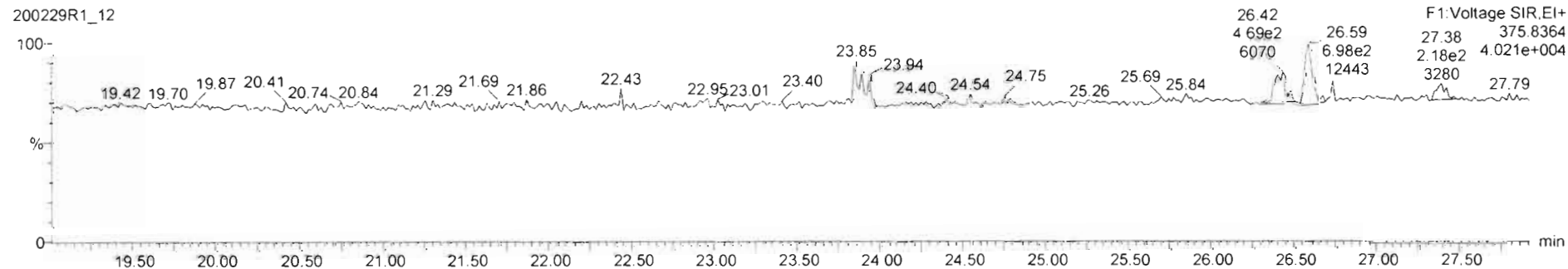
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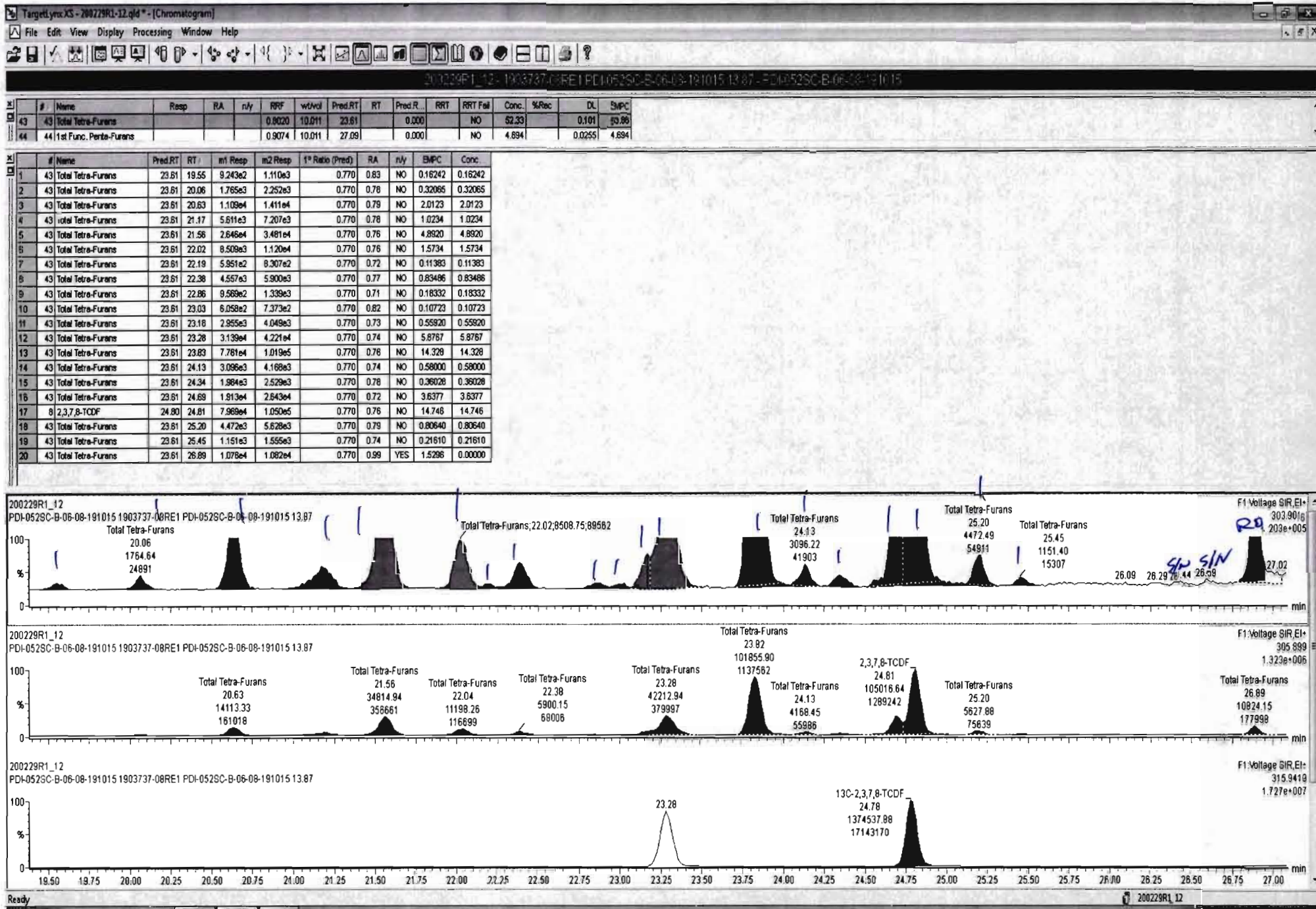


13C-2,3,7,8-TCDF



DPE1

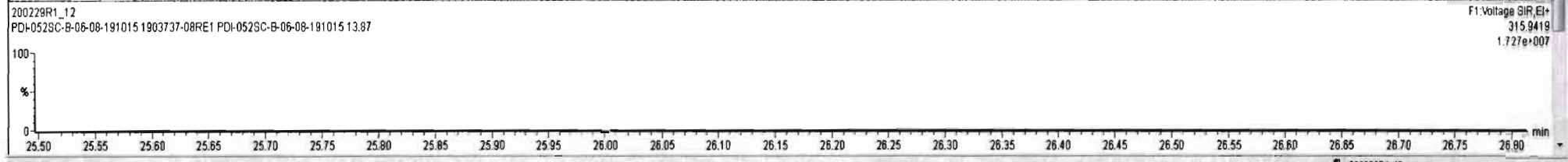
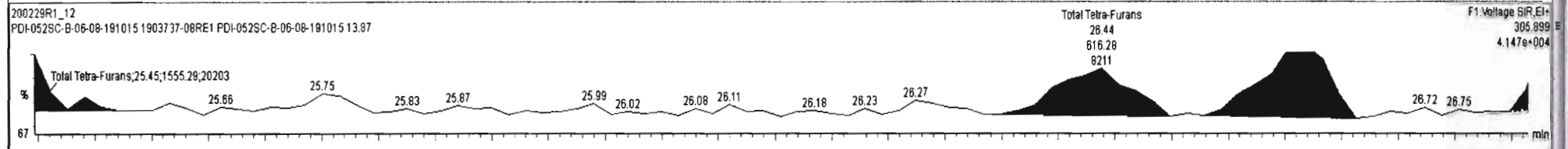
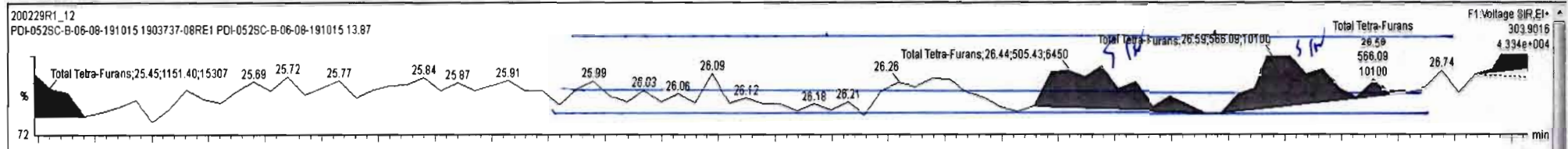




200229R1_12 - 1903737-08RE1 PDI-052SC-B-06-08-191015 13:87 - PDI-052SC-B-06-08-191015

#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.6020	10.011	23.61		0.000		NO	52.54		0.101	54.07
44	1st Func. Penta-Furans				0.9074	10.011	27.08		0.000		NO	4.694		0.0255	4.694

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.55	9.243e2	1.110e3	0.770	0.83	NO	0.16242	0.16242
2	43 Total Tetra-Furans	23.61	20.06	1.765e3	2.252e3	0.770	0.78	NO	0.32065	0.32065
3	43 Total Tetra-Furans	23.61	20.63	1.109e4	1.411e4	0.770	0.79	NO	2.0123	2.0123
4	43 Total Tetra-Furans	23.61	21.17	5.611e3	7.207e3	0.770	0.78	NO	1.0234	1.0234
5	43 Total Tetra-Furans	23.61	21.58	2.646e4	3.481e4	0.770	0.76	NO	4.8920	4.8920
6	43 Total Tetra-Furans	23.61	22.02	8.509e3	1.120e4	0.770	0.76	NO	1.5734	1.5734
7	43 Total Tetra-Furans	23.61	22.19	5.951e2	8.307e2	0.770	0.72	NO	0.11383	0.11383
8	43 Total Tetra-Furans	23.61	22.38	4.557e3	5.900e3	0.770	0.77	NO	0.83486	0.83486
9	43 Total Tetra-Furans	23.61	22.86	9.569e2	1.339e3	0.770	0.71	NO	0.18332	0.18332
10	43 Total Tetra-Furans	23.61	23.03	8.058e2	7.373e2	0.770	0.82	NO	0.10723	0.10723
11	43 Total Tetra-Furans	23.61	23.18	2.955e3	4.049e3	0.770	0.73	NO	0.55920	0.55920
12	43 Total Tetra-Furans	23.61	23.28	3.139e4	4.221e4	0.770	0.74	NO	5.8767	5.8767
13	43 Total Tetra-Furans	23.61	23.83	7.761e4	1.019e5	0.770	0.76	NO	14.328	14.328
14	43 Total Tetra-Furans	23.61	24.13	3.086e3	4.168e3	0.770	0.74	NO	0.58000	0.58000
15	43 Total Tetra-Furans	23.61	24.34	1.984e3	2.529e3	0.770	0.78	NO	0.36028	0.36028
16	43 Total Tetra-Furans	23.61	24.69	1.913e4	2.643e4	0.770	0.72	NO	3.6377	3.6377
17	8 2,3,7,8-TCDF	24.80	24.81	7.969e4	1.050e5	0.770	0.76	NO	14.746	14.746
18	43 Total Tetra-Furans	23.61	25.20	4.472e3	5.628e3	0.770	0.79	NO	0.80640	0.80640
19	43 Total Tetra-Furans	23.61	25.45	1.151e3	1.555e3	0.770	0.74	NO	0.21610	0.21610
20	43 Total Tetra-Furans	23.61	26.44	5.054e2	6.163e2	0.770	0.82	NO	0.089555	0.089555
21	43 Total Tetra-Furans	23.61	26.59	5.661e2	8.365e2	0.770	0.68	NO	0.11198	0.11198
22	43 Total Tetra-Furans	23.61	26.80	1.079e4	1.079e4	0.770	0.68	YES	1.4208	0.00000



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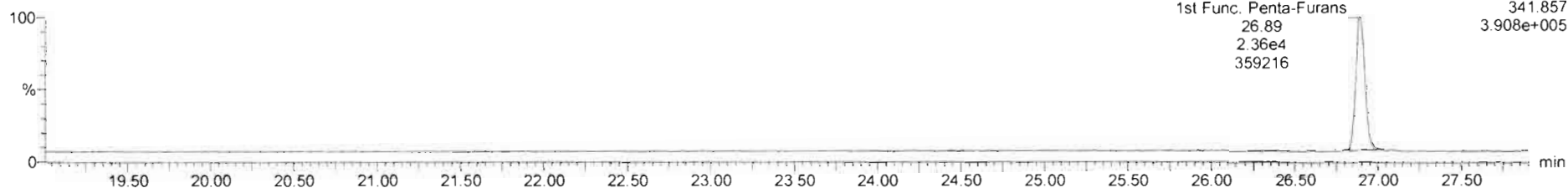
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1st Func. Penta-Furans

200229R1_12

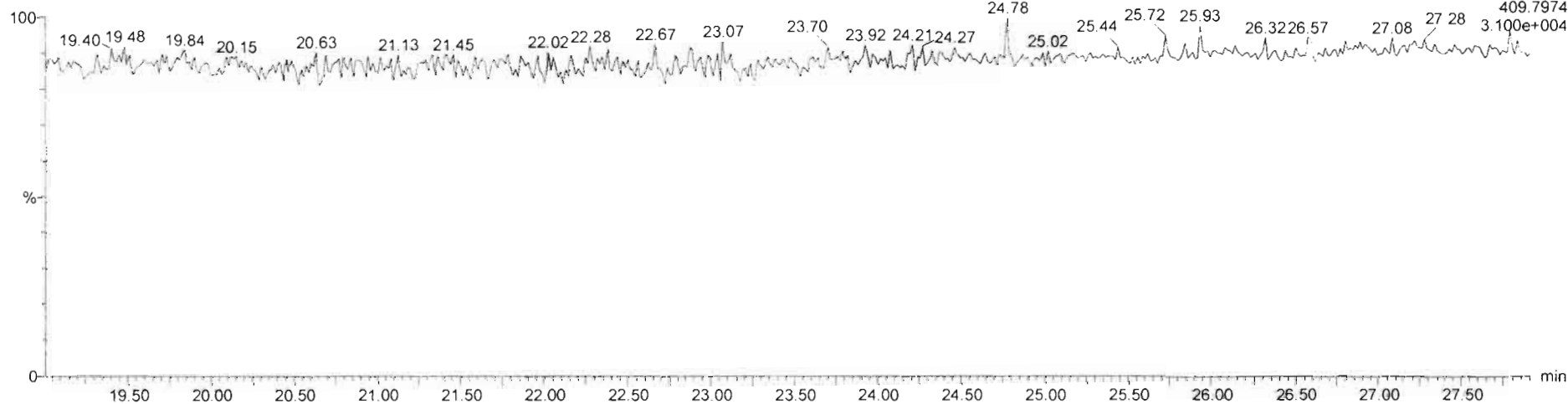


200229R1_12



DPE6

200229R1_12



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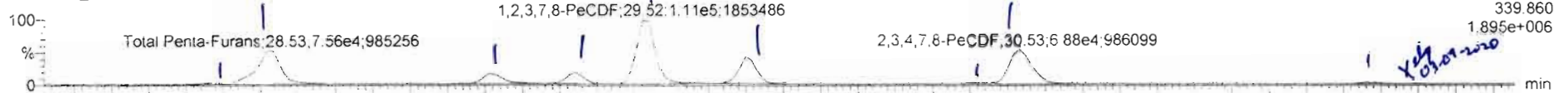
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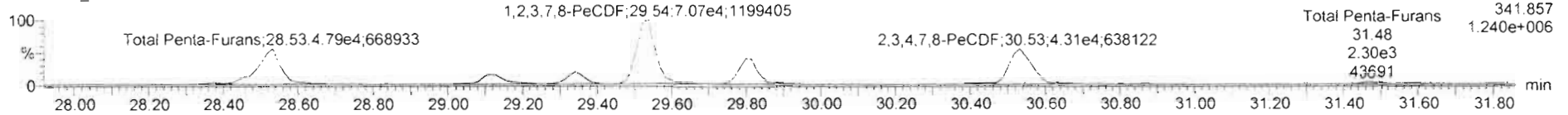
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1,2,3,7,8-PeCDF

200229R1_12

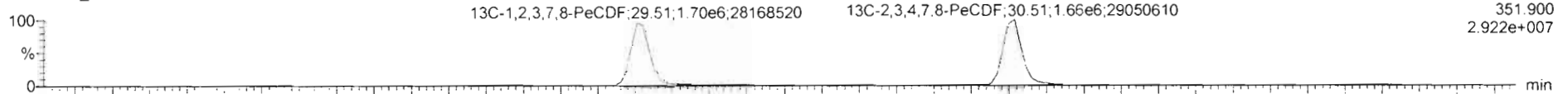


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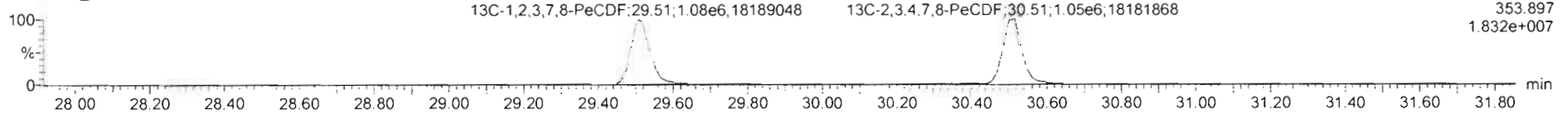


13C-1,2,3,7,8-PeCDF

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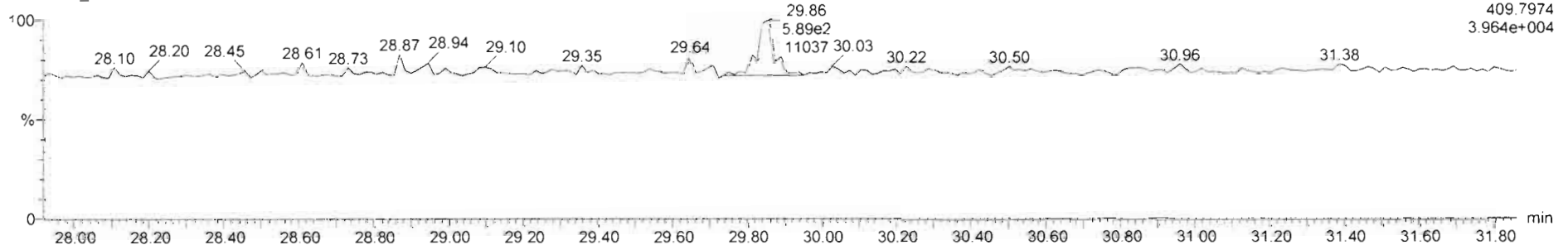


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DPE2

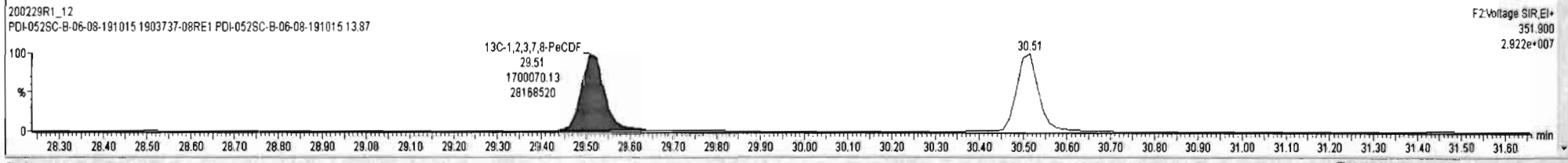
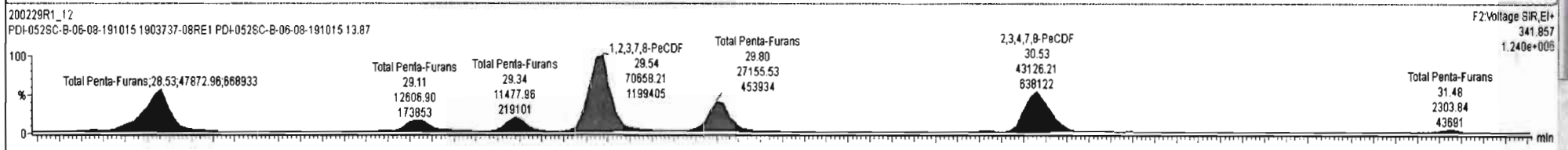
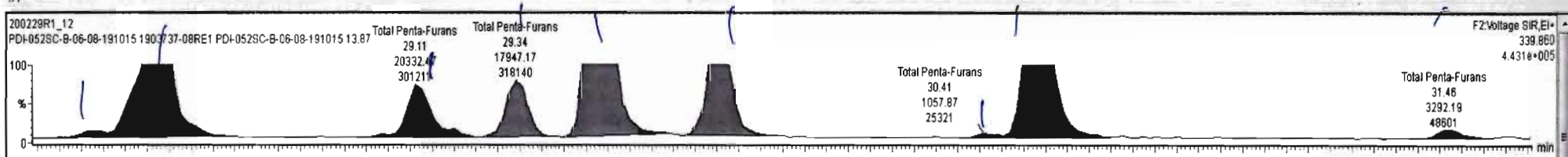
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200229R1_12 - 1903737-08RE1 PDI-052SC-B-06-08-191015 13.87 - PDI-052SC-B-06-08-191015

#	Name	Resp	RA	n/y	RRF	wtAval	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	LBPC
45	Total Penta-Furans				0.9074	10.011	29.27		0.000		NO	44.42		0.0974	44.42
46	Total Hexa-Furans				0.8982	10.011	33.56		0.000		NO	55.57		0.120	55.69

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	BMPC	Conc.
1	45 Total Penta-Furans	29.27	28.38	2.474e3	1.729e3	1.550	1.43	NO	0.33672	0.33672
2	45 Total Penta-Furans	29.27	28.53	7.560e4	4.787e4	1.550	1.56	NO	9.8939	9.8939
3	45 Total Penta-Furans	29.27	29.11	2.033e4	1.261e4	1.550	1.61	NO	2.6395	2.6395
4	45 Total Penta-Furans	29.27	29.34	1.795e4	1.148e4	1.550	1.58	NO	2.3579	2.3579
5	9 1,2,3,7,8-PeCDF	29.53	29.52	1.113e5	7.066e4	1.550	1.58	NO	14.413	14.413
6	45 Total Penta-Furans	29.27	29.80	4.207e4	2.716e4	1.550	1.55	NO	5.5474	5.5474
7	45 Total Penta-Furans	29.27	30.41	1.058e3	6.021e2	1.550	1.76	NO	0.13301	0.13301
8	10 2,3,4,7,8-PeCDF	30.54	30.53	6.879e4	4.313e4	1.550	1.60	NO	8.6537	8.6537
9	45 Total Penta-Furans	29.27	31.46	3.282e3	2.304e3	1.550	1.43	NO	0.44841	0.44841



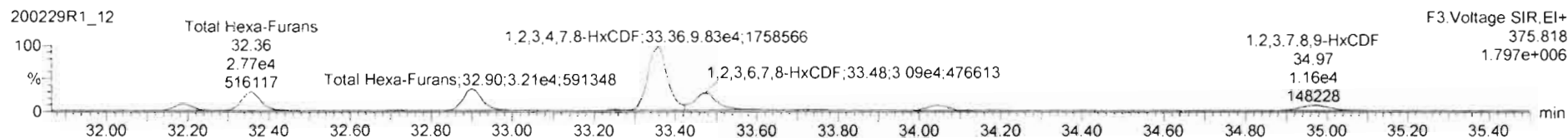
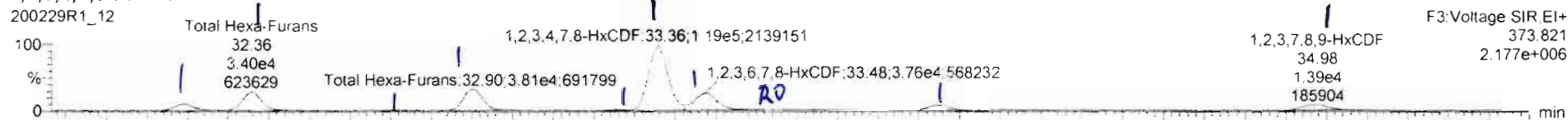
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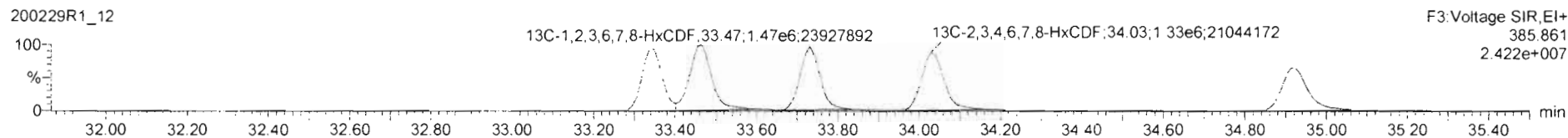
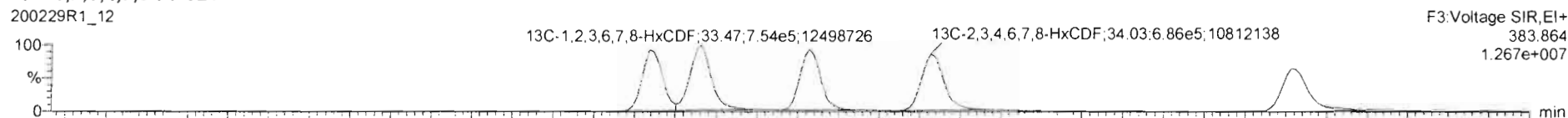
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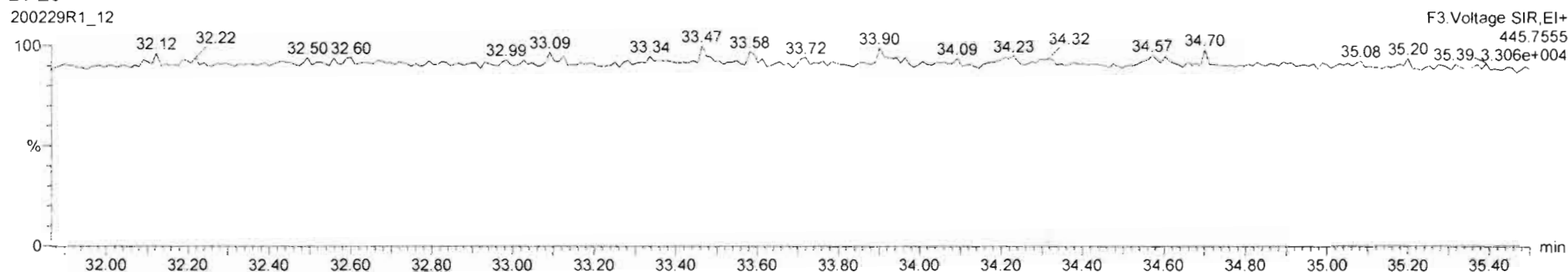
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13C-1,2,3,4,7,8-HxCDF

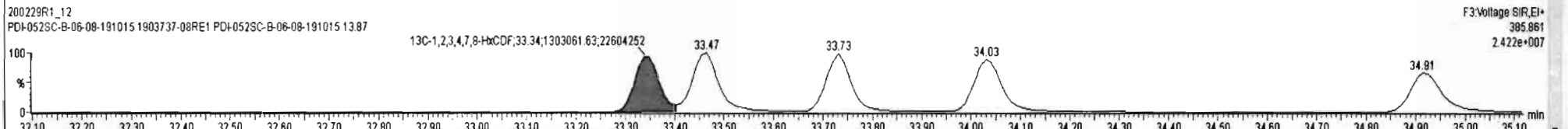
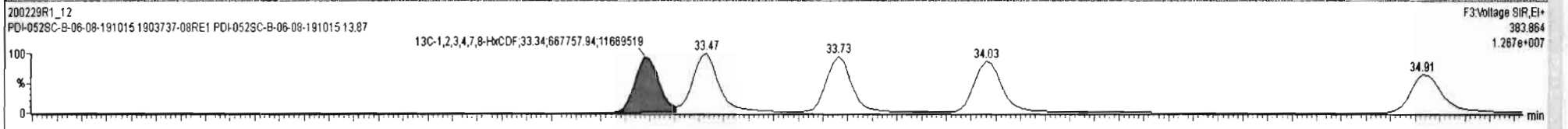
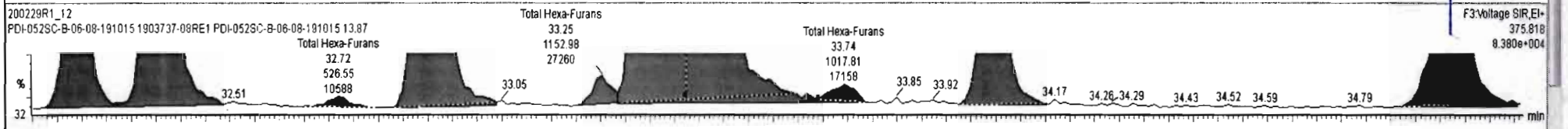
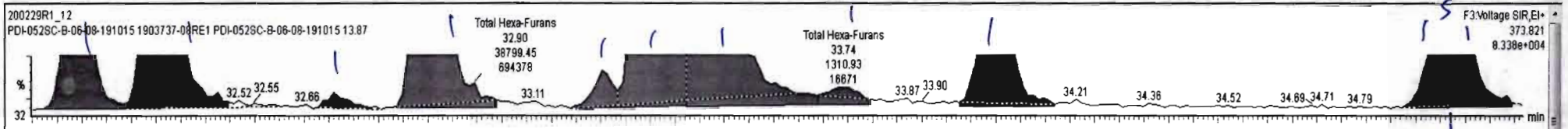


DPE3



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	4.99e3	0.55	YES	0.99	10.011	25.75	1.001	0.391		0.0485	0.317
2 1,2,3,7,8-PeCDD	3.15e3	0.57	NO	0.97	10.011	30.85	1.001	0.314		0.0748	0.314

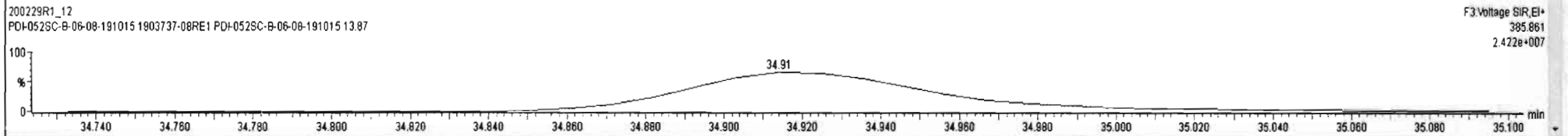
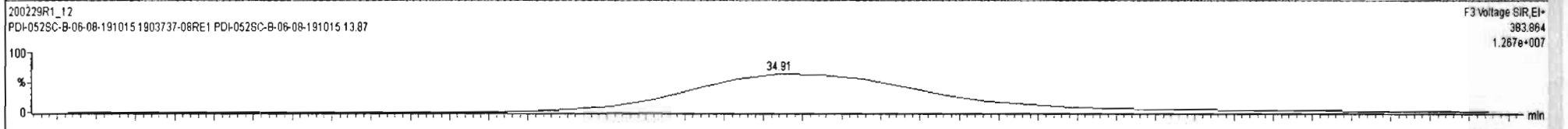
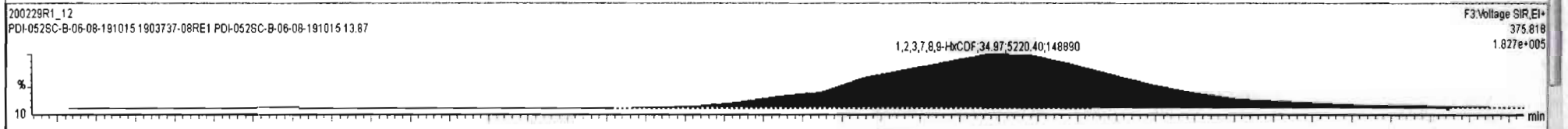
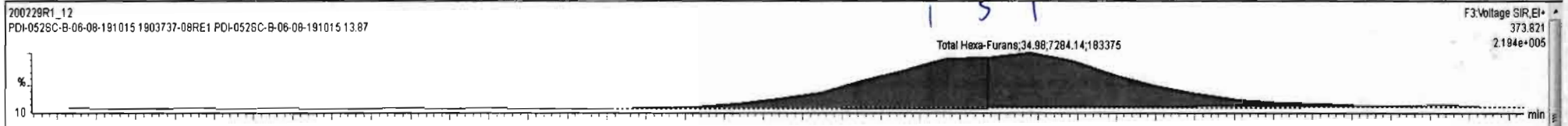
Name	RT	m1 Resp	m2 Resp	1* Ratio (P...)	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	1.151e4	9.514e3	1.240	1.21	NO	2.3368	2.3368
2 Total Hexa-Furans	32.36	3.364e4	2.774e4	1.240	1.21	NO	6.8240	6.8240
3 Total Hexa-Furans	32.71	6.872e2	5.266e2	1.240	1.30	NO	0.13493	0.13493
4 Total Hexa-Furans	32.90	3.880e4	3.239e4	1.240	1.20	NO	7.9140	7.9140
5 Total Hexa-Furans	33.25	1.598e3	1.153e3	1.240	1.38	NO	0.30582	0.30582
6 1,2,3,4,7,8-HxCDF	33.36	1.191e5	9.849e4	1.240	1.21	NO	25.582	25.582
7 1,2,3,6,7,8-HxCDF	33.48	3.991e4	3.244e4	1.240	1.23	NO	7.7384	7.7384
8 Total Hexa-Furans	33.74	1.311e3	1.018e3	1.240	1.28	NO	0.25888	0.25888
9 2,3,4,6,7,8-HxCDF	34.05	1.057e4	8.180e3	1.240	1.30	NO	2.0811	2.0811
10 1,2,3,7,8-HxCDF	34.87	6.202e3	5.220e3	1.240	1.19	NO	1.4801	1.4801
11 Total Hexa-Furans	34.98	8.046e3	6.596e3	1.240	1.22	NO	1.6277	1.6277



200229R1_12 - 1903737-08RE1 PDI-0525C-B-06-08-191015 13.87 - PDI-0525C-B-06-08-191015

Name	Resp	RA	n/y	RRF	w/wol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	4.99e3	0.55	YES	0.99	10.011	25.75	1.001	0.391		0.0485	0.317
2 1,2,3,7,8-PeCDD	3.15e3	0.57	NO	0.97	10.011	30.85	1.001	0.314		0.0748	0.314

Name	RT	m1 Resp	m2 Resp	*Ratio (P..)	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	1.151e4	9.514e3	1.240	1.21	NO	2.3368	2.3368
2 Total Hexa-Furans	32.36	3.397e4	2.774e4	1.240	1.22	NO	6.6597	6.6597
3 Total Hexa-Furans	32.71	7.029e2	5.414e2	1.240	1.30	NO	0.13632	0.13632
4 Total Hexa-Furans	32.90	3.806e4	3.210e4	1.240	1.19	NO	7.7999	7.7999
5 Total Hexa-Furans	33.25	1.485e3	1.153e3	1.240	1.28	NO	0.29323	0.29323
6 1,2,3,4,7,8-HxCDF	33.38	1.186e5	9.826e4	1.240	1.21	NO	25.498	25.498
7 1,2,3,6,7,8-HxCDF	33.48	3.756e4	3.087e4	1.240	1.22	NO	7.3188	7.3188
8 Total Hexa-Furans	33.74	5.901e2	8.642e2	1.240	0.88	YES	0.11851	0.00000
9 2,3,4,6,7,8-HxCDF	34.05	1.022e4	8.093e3	1.240	1.26	NO	2.0220	2.0220
10 1,2,3,7,8,9-HxCDF	34.97	6.202e3	5.220e3	1.240	1.19	NO	1.4801	1.4801
11 Total Hexa-Furans	34.88	7.284e3	6.155e3	1.240	1.18	NO	1.4940	1.4940

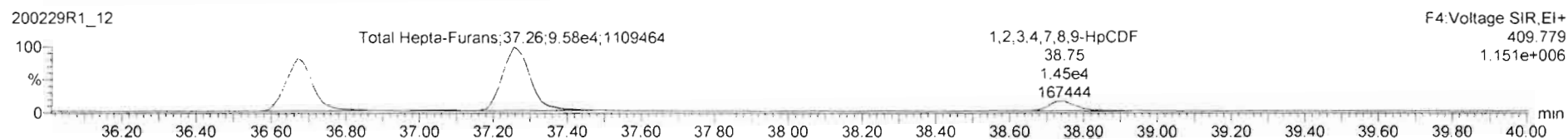
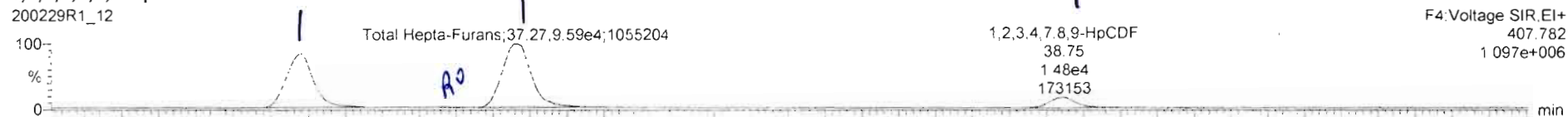


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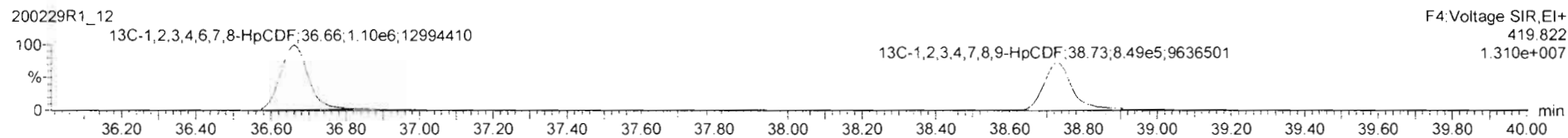
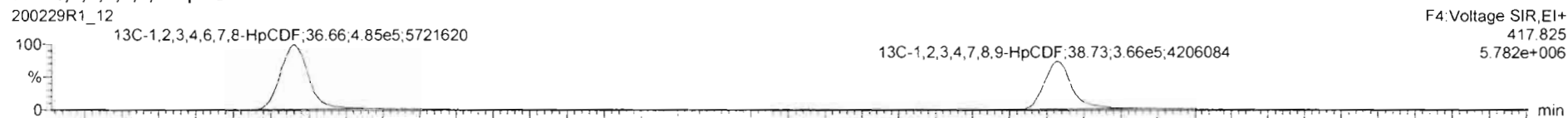
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_12, Date: 29-Feb-2020, Time: 19:56:07, ID: 1903737-08RE1 PDI-052SC-B-06-08-191015 13.87, Description: PDI-052SC-B-06-08-191015

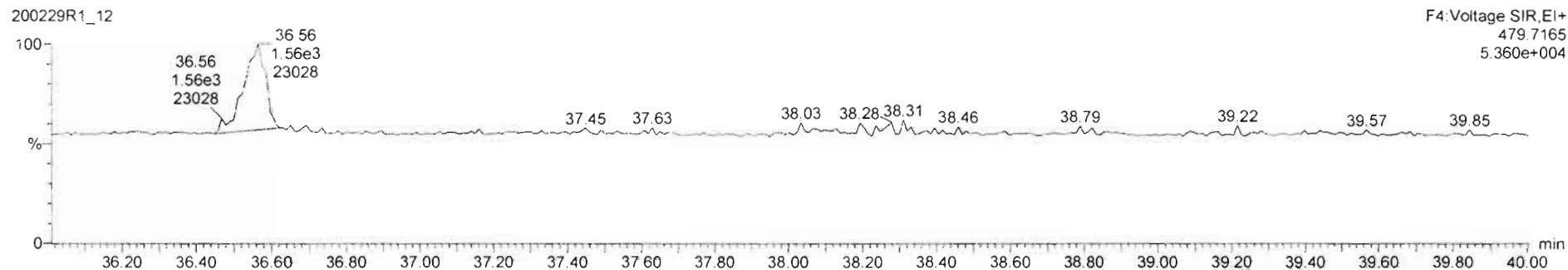
1,2,3,4,6,7,8-HpCDF



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



DPE4

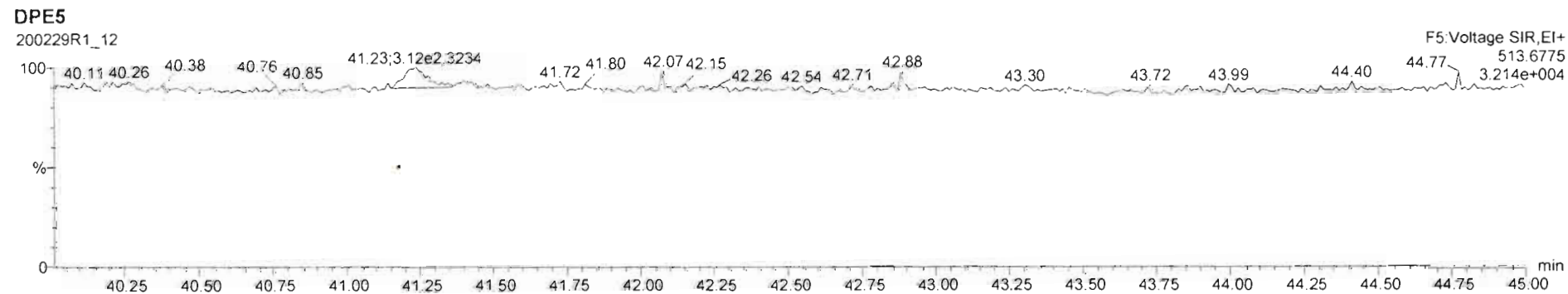
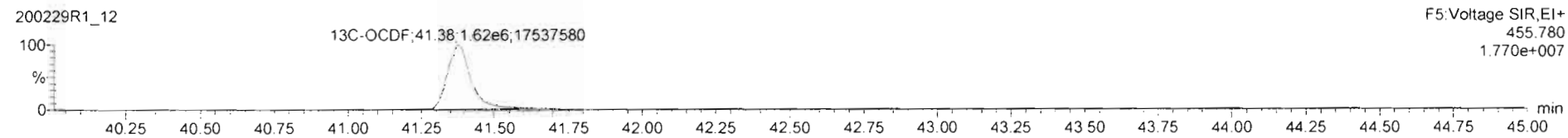
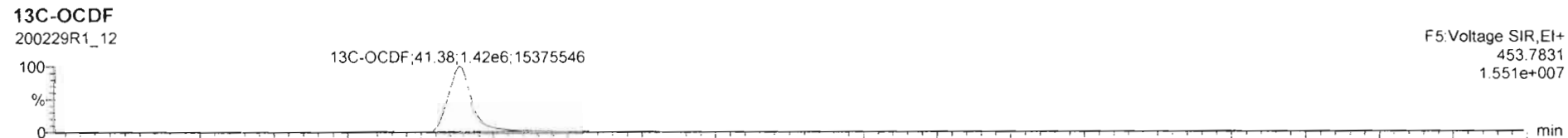
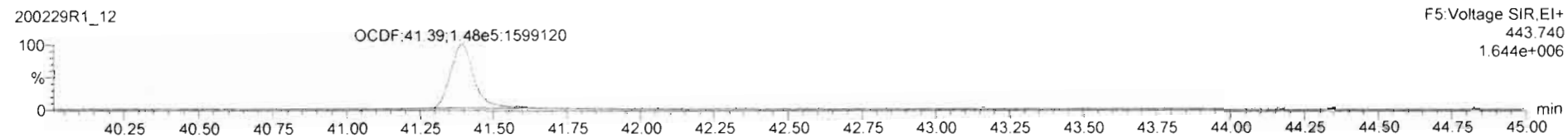


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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

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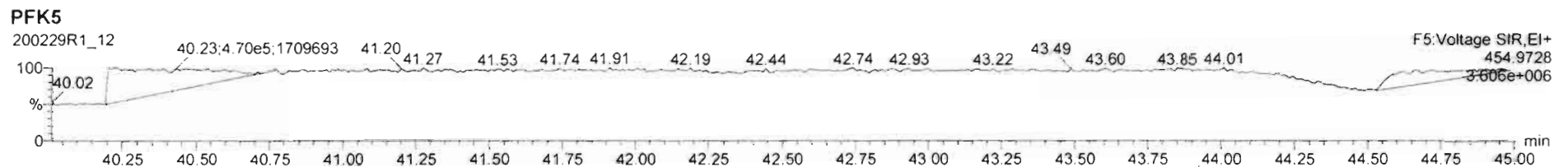
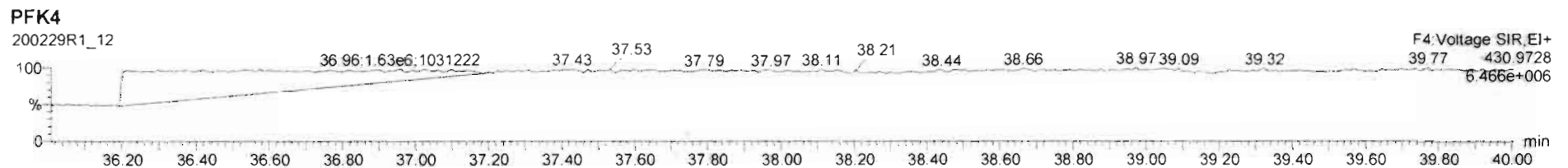
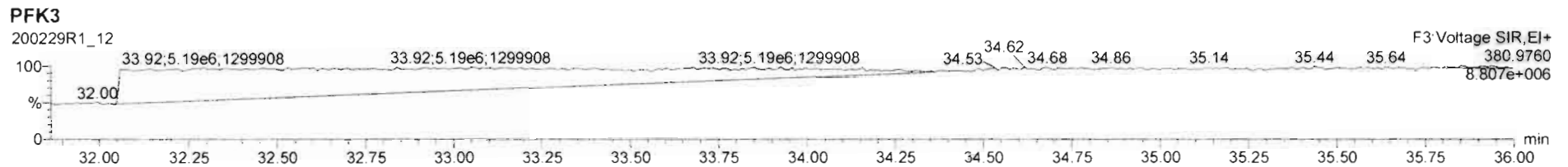
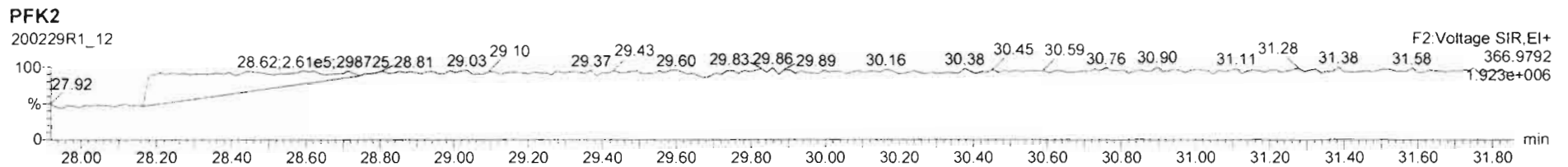
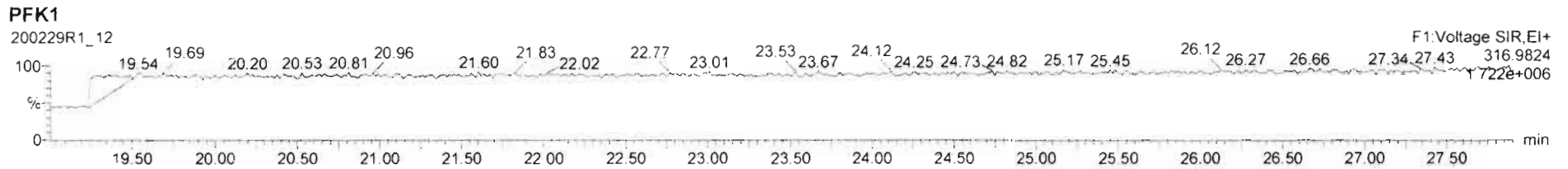


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Dataset: U:\VG12.PRO\Results\200229R1\200229R1-13.qld

Last Altered: Monday, March 09, 2020 14:08:28 Pacific Daylight Time

Printed: Monday, March 09, 2020 14:12:41 Pacific Daylight Time

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03/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R1_13, Date: 29-Feb-2020, Time: 20:43:33, ID: 1903737-09RE1 PDI-055SC-B-00-02-191015 18.7, Description: PDI-055SC-B-00-02-191015

#	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	20839.705	0.756	NO	0.988	10.021	25.75	25.75	1.00	1.00	NO	1.924		0.0627	1.924
2	2 1,2,3,7,8-PeCDD	22055.531	0.610	NO	0.972	10.021	30.86	30.85	1.00	1.00	NO	2.648		0.0852	2.648
3	3 1,2,3,4,7,8-HxCDD	21376.599	1.356	NO	1.07	10.021	34.22	34.22	1.00	1.00	NO	3.324		0.255	3.324
4	4 1,2,3,6,7,8-HxCDD	143056.336	1.228	NO	0.921	10.021	34.31	34.33	1.00	1.00	NO	19.41		0.260	19.41
5	5 1,2,3,7,8,9-HxCDD	56110.058	1.234	NO	0.918	10.021	34.62	34.60	1.00	1.00	NO	8.881		0.307	8.881
6	6 1,2,3,4,6,7,8-HpCDD	2725712.6...	1.020	NO	0.923	10.021	38.10	38.11	1.00	1.00	NO	500.8		1.50	500.8
7	7 OCDD	18300554....	0.886	NO	0.975	10.021	41.21	41.22	1.00	1.00	NO	4835		1.17	4835
8	8 2,3,7,8-TCDF	1010632.8...	0.752	NO	0.802	10.021	24.80	24.81	1.00	1.00	NO	93.06	(87.0)	0.114	93.06
9	9 1,2,3,7,8-PeCDF	1385638.8...	1.532	NO	0.907	10.021	29.54	29.54	1.00	1.00	NO	128.8		0.345	128.8
10	10 2,3,4,7,8-PeCDF	676508.688	1.551	NO	0.952	10.021	30.54	30.53	1.00	1.00	NO	64.39		0.323	64.39
11	11 1,2,3,4,7,8-HxCDF	1698276.8...	1.217	NO	0.862	10.021	33.35	33.37	1.00	1.00	NO	248.5		0.336	248.5
12	12 1,2,3,6,7,8-HxCDF	552400.640	1.216	NO	0.841	10.021	33.48	33.49	1.00	1.00	NO	74.11		0.331	74.11
13	13 2,3,4,6,7,8-HxCDF	127610.532	1.217	NO	0.898	10.021	34.08	34.05	1.00	1.00	NO	18.41		0.372	18.41
14	14 1,2,3,7,8,9-HxCDF	26254.970	1.163	NO	0.858	10.021	34.92	34.95	1.00	1.00	NO	4.229		0.489	4.229
15	15 1,2,3,4,6,7,8-HpCDF	942956.469	1.006	NO	0.851	10.021	36.71	36.68	1.00	1.00	NO	181.7		0.581	181.7
16	16 1,2,3,4,7,8,9-HpCDF	174618.875	1.052	NO	0.980	10.021	38.73	38.75	1.00	1.00	NO	40.59		0.722	40.59
17	17 OCDF	1252821.7...	0.816	NO	0.806	10.021	41.39	41.40	1.00	1.00	NO	320.4		0.421	320.4
18	18 13C-2,3,7,8-TCDD	2188110.0...	0.775	NO	1.20	10.021	25.71	25.72	1.03	1.03	NO	177.8	89.1	0.141	
19	19 13C-1,2,3,7,8-PeCDD	1709456.2...	0.626	NO	0.967	10.021	30.84	30.83	1.23	1.23	NO	172.2	86.3	0.224	
20	20 13C-1,2,3,4,7,8-HxCDD	1198616.2...	1.254	NO	0.874	10.021	34.21	34.21	1.01	1.01	NO	149.4	74.9	0.349	
21	21 13C-1,2,3,6,7,8-HxCDD	1596839.5...	1.253	NO	1.05	10.021	34.32	34.31	1.02	1.02	NO	166.3	83.3	0.292	
22	22 13C-1,2,3,7,8,9-HxCDD	1373228.0...	1.208	NO	0.974	10.021	34.62	34.58	1.03	1.02	NO	153.5	76.9	0.313	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1176816.0...	1.044	NO	0.747	10.021	38.20	38.09	1.13	1.13	NO	171.5	85.9	0.341	
24	24 13C-OCDD	1550309.6...	0.903	NO	0.707	10.021	41.10	41.21	1.22	1.22	NO	239.0	59.9	0.312	
25	25 13C-2,3,7,8-TCDF	2702699.6...	0.772	NO	1.07	10.021	24.89	24.78	0.99	0.99	NO	181.7	91.0	0.272	
26	26 13C-1,2,3,7,8-PeCDF	2366906.3...	1.591	NO	1.00	10.021	29.47	29.52	1.18	1.18	NO	169.2	84.8	0.310	
27	27 13C-2,3,4,7,8-PeCDF	2203666.8...	1.566	NO	0.962	10.021	30.44	30.51	1.21	1.22	NO	164.1	82.2	0.323	
28	28 13C-1,2,3,4,7,8-HxCDF	1581654.5...	0.513	NO	1.05	10.021	33.34	33.35	0.99	0.99	NO	164.2	82.3	0.395	
29	29 13C-1,2,3,6,7,8-HxCDF	1768040.8...	0.517	NO	1.19	10.021	33.44	33.47	0.99	0.99	NO	161.8	81.1	0.349	
30	30 13C-2,3,4,6,7,8-HxCDF	1540625.8...	0.516	NO	1.07	10.021	34.05	34.04	1.01	1.01	NO	157.4	78.9	0.389	
31	31 13C-1,2,3,7,8,9-HxCDF	1444446.5...	0.507	NO	0.922	10.021	34.96	34.92	1.04	1.04	NO	170.6	85.5	0.450	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-13.qld

Last Altered: Monday, March 09, 2020 14:08:28 Pacific Daylight Time

Printed: Monday, March 09, 2020 14:12:41 Pacific Daylight Time

Name: 200229R1_13, Date: 29-Feb-2020, Time: 20:43:33, ID: 1903737-09RE1 PDI-055SC-B-00-02-191015 18.7, Description: PDI-055SC-B-00-02-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1217305.8...	0.439	NO	0.767	10.021	36.71	36.67	1.09	1.09	NO	172.8	86.6	0.410	
33	33 13C-1,2,3,4,7,8,9-HpCDF	876260.688	0.438	NO	0.552	10.021	38.74	38.73	1.15	1.15	NO	172.8	86.6	0.569	
34	34 13C-OCDF	1937683.5...	0.881	NO	0.789	10.021	41.33	41.39	1.23	1.23	NO	267.4	67.0	0.354	
35	35 37Cl-2,3,7,8-TCDD	811095.688			1.18	10.021	25.74	25.75	1.03	1.03	NO	67.14	84.1	0.0600	
36	36 13C-1,2,3,4-TCDD	2049710.5...	0.786	NO	1.00	10.021	25.11	25.06	1.00	1.00	NO	199.6	100	0.169	
37	37 13C-1,2,3,4-TCDF	2787337.8...	0.795	NO	1.00	10.021	23.37	23.28	1.00	1.00	NO	199.6	100	0.290	
38	38 13C-1,2,3,4,6,9-HxCDF	1832364.5...	0.514	NO	1.00	10.021	33.71	33.74	1.00	1.00	NO	199.6	100	0.415	
39	39 Total Tetra-Dioxins				0.988	10.021	24.62		0.00		NO	16.56		0.0627	17.00
40	40 Total Penta-Dioxins				0.972	10.021	29.96		0.00		NO	23.37		0.0852	23.37
41	41 Total Hexa-Dioxins				0.921	10.021	33.63		0.00		NO	202.5		0.286	202.5
42	42 Total Hepta-Dioxins				0.923	10.021	37.64		0.00		NO	1346		1.50	1346
43	43 Total Tetra-Furans				0.802	10.021	23.61		0.00		NO	292.3		0.114	293.5
44	44 1st Func. Penta-Furans				0.907	10.021	27.09		0.00		NO	35.26		0.0310	35.26
45	45 Total Penta-Furans				0.907	10.021	29.27		0.00		NO	335.3		0.342	336.2
46	46 Total Hexa-Furans				0.898	10.021	33.56		0.00		NO	522.5		0.364	522.5
47	47 Total Hepta-Furans				0.851	10.021	37.83		0.00		NO	538.1		0.686	538.1

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-13.qld

Last Altered: Monday, March 09, 2020 14:08:28 Pacific Daylight Time

Printed: Monday, March 09, 2020 14:11:28 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R1_13, Date: 29-Feb-2020, Time: 20:43:33, ID: 1903737-09RE1 PDI-055SC-B-00-02-191015 18.7, Description: PDI-055SC-B-00-02-191015

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	1 2,3,7,8-TCDD	2.08e4	2.19e6	0.756	NO	25.75	25.75	1.924	1.924
2	39 Total Tetra-Dioxins	4.05e4	2.19e6	0.770	NO	24.62	25.47	3.742	3.742
3	39 Total Tetra-Dioxins	8.10e2	2.19e6	0.675	NO	24.62	25.18	0.07476	0.07476
4	39 Total Tetra-Dioxins	3.76e3	2.19e6	0.762	NO	24.62	25.02	0.3475	0.3475
5	39 Total Tetra-Dioxins	3.38e3	2.19e6	0.815	NO	24.62	24.64	0.3122	0.3122
6	39 Total Tetra-Dioxins	2.67e3	2.19e6	0.821	NO	24.62	24.48	0.2464	0.2464
7	39 Total Tetra-Dioxins	3.74e3	2.19e6	0.765	NO	24.62	24.16	0.3450	0.3450
8	39 Total Tetra-Dioxins	1.19e4	2.19e6	0.862	NO	24.62	23.97	1.095	1.095
9	39 Total Tetra-Dioxins	9.65e3	2.19e6	0.843	NO	24.62	23.73	0.8912	0.8912
10	39 Total Tetra-Dioxins	4.50e3	2.19e6	0.670	NO	24.62	23.48	0.4151	0.4151
11	39 Total Tetra-Dioxins	6.03e3	2.19e6	0.727	NO	24.62	22.49	0.5568	0.5568
12	39 Total Tetra-Dioxins	1.84e4	2.19e6	0.702	NO	24.62	21.99	1.694	1.694
13	39 Total Tetra-Dioxins	5.18e4	2.19e6	0.796	NO	24.62	21.59	4.786	4.786
14	39 Total Tetra-Dioxins	1.39e3	2.19e6	0.731	NO	24.62	26.75	0.1282	0.1282
15	39 Total Tetra-Dioxins	0.00e0	2.19e6	1.089	YES	24.62	26.21	0.0000	0.07739
16	39 Total Tetra-Dioxins	0.00e0	2.19e6	0.930	YES	24.62	26.09	0.0000	0.3674

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-13.qld

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Name: 200229R1_13, Date: 29-Feb-2020, Time: 20:43:33, ID: 1903737-09RE1 PDI-055SC-B-00-02-191015 18.7, Description: PDI-055SC-B-00-02-191015

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	3.98e3	1.71e6	0.624	NO	29.96	30.41	0.4780	0.4780
2	40 Total Penta-Dioxins	2.25e4	1.71e6	0.652	NO	29.96	30.07	2.699	2.699
3	40 Total Penta-Dioxins	1.23e4	1.71e6	0.636	NO	29.96	29.84	1.479	1.479
4	40 Total Penta-Dioxins	2.25e4	1.71e6	0.615	NO	29.96	29.75	2.704	2.704
5	40 Total Penta-Dioxins	2.91e4	1.71e6	0.663	NO	29.96	29.60	3.496	3.496
6	40 Total Penta-Dioxins	1.29e4	1.71e6	0.715	NO	29.96	29.08	1.549	1.549
7	40 Total Penta-Dioxins	5.89e4	1.71e6	0.627	NO	29.96	28.58	7.074	7.074
8	40 Total Penta-Dioxins	5.58e3	1.71e6	0.613	NO	29.96	31.23	0.6699	0.6699
9	40 Total Penta-Dioxins	4.73e3	1.71e6	0.605	NO	29.96	30.93	0.5685	0.5685
10	2 1,2,3,7,8-PeCDD	2.21e4	1.71e6	0.610	NO	30.86	30.85	2.648	2.648

Hexa-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	5.61e4	1.37e6	1.234	NO	34.62	34.60	8.881	8.881
2	41 Total Hexa-Dioxins	1.74e4	0.00e0	1.181	NO	33.63	34.51	2.709	2.709
3	4 1,2,3,6,7,8-HxCDD	1.43e5	1.60e6	1.228	NO	34.31	34.33	19.41	19.41
4	3 1,2,3,4,7,8-HxCDD	2.14e4	1.20e6	1.356	NO	34.22	34.22	3.324	3.324
5	41 Total Hexa-Dioxins	4.96e4	0.00e0	1.272	NO	33.63	33.66	7.738	7.738
6	41 Total Hexa-Dioxins	4.89e5	0.00e0	1.234	NO	33.63	33.55	76.23	76.23
7	41 Total Hexa-Dioxins	5.23e4	0.00e0	1.265	NO	33.63	33.29	8.153	8.153
8	41 Total Hexa-Dioxins	4.88e5	0.00e0	1.238	NO	33.63	32.75	76.08	76.08

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.73e6	1.18e6	1.020	NO	38.10	38.11	500.8	500.8
2	42 Total Hepta-Dioxins	4.60e6	1.18e6	1.029	NO	37.64	37.06	845.5	845.5

Vista Analytical Laboratory

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Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	5.27e4	2.70e6	0.745	NO	23.61	22.38	4.851	4.851
2	43 Total Tetra-Furans	1.55e4	2.70e6	0.735	NO	23.61	22.19	1.426	1.426
3	43 Total Tetra-Furans	9.48e4	2.70e6	0.756	NO	23.61	22.02	8.731	8.731
4	43 Total Tetra-Furans	2.66e5	2.70e6	0.749	NO	23.61	21.56	24.50	24.50
5	43 Total Tetra-Furans	7.39e4	2.70e6	0.763	NO	23.61	21.17	6.808	6.808
6	43 Total Tetra-Furans	1.52e5	2.70e6	0.741	NO	23.61	20.63	13.99	13.99
7	43 Total Tetra-Furans	2.38e4	2.70e6	0.750	NO	23.61	20.05	2.189	2.189
8	43 Total Tetra-Furans	1.33e4	2.70e6	0.771	NO	23.61	19.54	1.229	1.229
9	43 Total Tetra-Furans	0.00e0	2.70e6	0.925	YES	23.61	26.60	0.0000	0.4148
10	43 Total Tetra-Furans	3.40e3	2.70e6	0.766	NO	23.61	26.42	0.3129	0.3129
11	43 Total Tetra-Furans	1.11e4	2.70e6	0.737	NO	23.61	25.47	1.026	1.026
12	43 Total Tetra-Furans	5.73e4	2.70e6	0.719	NO	23.61	25.20	5.274	5.274
13	8 2,3,7,8-TCDF	1.01e6	2.70e6	0.752	NO	24.80	24.81	93.06	93.06
14	43 Total Tetra-Furans	1.31e5	2.70e6	0.746	NO	23.61	24.69	12.10	12.10
15	43 Total Tetra-Furans	1.03e4	2.70e6	0.661	NO	23.61	24.57	0.9483	0.9483
16	43 Total Tetra-Furans	1.75e4	2.70e6	0.837	NO	23.61	24.34	1.607	1.607
17	43 Total Tetra-Furans	3.73e4	2.70e6	0.780	NO	23.61	24.13	3.434	3.434
18	43 Total Tetra-Furans	8.11e5	2.70e6	0.754	NO	23.61	23.82	74.63	74.63
19	43 Total Tetra-Furans	2.39e5	2.70e6	0.749	NO	23.61	23.28	22.00	22.00
20	43 Total Tetra-Furans	5.07e4	2.70e6	0.728	NO	23.61	23.16	4.665	4.665
21	43 Total Tetra-Furans	1.30e4	2.70e6	0.716	NO	23.61	23.00	1.194	1.194
22	43 Total Tetra-Furans	0.00e0	2.70e6	0.637	YES	23.61	22.85	0.0000	0.7997
23	43 Total Tetra-Furans	9.07e4	2.70e6	0.881	NO	23.61	26.89	8.351	8.351

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	3.66e5	0.00e0	1.547	NO	27.09	26.90	35.26	35.26

Vista Analytical Laboratory

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Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	10 2,3,4,7,8-PeCDF	6.77e5	2.20e6	1.551	NO	30.54	30.53	64.39	64.39
2	45 Total Penta-Furans	0.00e0	0.00e0	1.228	YES	29.27	30.42	0.0000	0.7936
3	45 Total Penta-Furans	0.00e0	0.00e0	1.108	YES	29.27	30.30	0.0000	0.1783
4	45 Total Penta-Furans	4.30e5	0.00e0	1.555	NO	29.27	29.81	41.44	41.44
5	9 1,2,3,7,8-PeCDF	1.39e6	2.37e6	1.532	NO	29.54	29.54	128.8	128.8
6	45 Total Penta-Furans	1.25e5	0.00e0	1.565	NO	29.27	29.35	11.99	11.99
7	45 Total Penta-Furans	1.26e5	0.00e0	1.497	NO	29.27	29.13	12.09	12.09
8	45 Total Penta-Furans	3.74e3	0.00e0	1.331	NO	29.27	28.91	0.3598	0.3598
9	45 Total Penta-Furans	7.35e5	0.00e0	1.549	NO	29.27	28.53	70.79	70.79
10	45 Total Penta-Furans	2.69e4	0.00e0	1.570	NO	29.27	28.38	2.590	2.590
11	45 Total Penta-Furans	2.97e4	0.00e0	1.529	NO	29.27	31.48	2.863	2.863

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	2.63e4	1.44e6	1.163	NO	34.92	34.95	4.229	4.229
2	13 2,3,4,6,7,8-HxCDF	1.28e5	1.54e6	1.217	NO	34.08	34.05	18.41	18.41
3	46 Total Hexa-Furans	1.31e3	0.00e0	1.414	NO	33.56	33.96	0.1836	0.1836
4	46 Total Hexa-Furans	1.59e3	0.00e0	1.160	NO	33.56	33.85	0.2225	0.2225
5	46 Total Hexa-Furans	7.66e3	0.00e0	1.194	NO	33.56	33.75	1.075	1.075
6	12 1,2,3,6,7,8-HxCDF	5.52e5	1.77e6	1.216	NO	33.48	33.49	74.11	74.11
7	11 1,2,3,4,7,8-HxCDF	1.70e6	1.58e6	1.217	NO	33.35	33.37	248.5	248.5
8	46 Total Hexa-Furans	1.44e4	0.00e0	1.396	NO	33.56	33.26	2.020	2.020
9	46 Total Hexa-Furans	5.30e5	0.00e0	1.234	NO	33.56	32.91	74.40	74.40
10	46 Total Hexa-Furans	7.33e3	0.00e0	1.253	NO	33.56	32.72	1.028	1.028
11	46 Total Hexa-Furans	4.11e5	0.00e0	1.219	NO	33.56	32.37	57.65	57.65
12	46 Total Hexa-Furans	1.34e5	0.00e0	1.207	NO	33.56	32.20	18.84	18.84
13	46 Total Hexa-Furans	1.55e5	0.00e0	1.244	NO	33.56	34.98	21.78	21.78

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-13.qld

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Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	1.75e5	8.76e5	1.052	NO	38.73	38.75	40.59	40.59
2	47 Total Hepta-Furans	1.40e6	0.00e0	1.007	NO	37.83	37.27	313.2	313.2
3	47 Total Hepta-Furans	1.17e4	0.00e0	0.916	NO	37.83	37.08	2.623	2.623
4	15 1,2,3,4,6,7,8-HpCDF	9.43e5	1.22e6	1.006	NO	36.71	36.68	181.7	181.7

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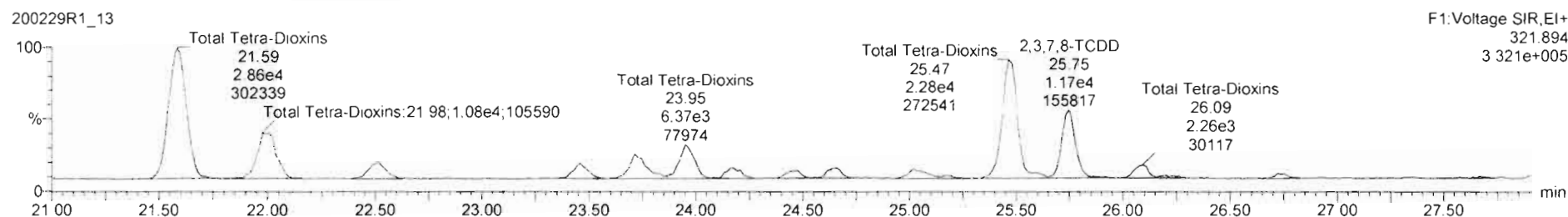
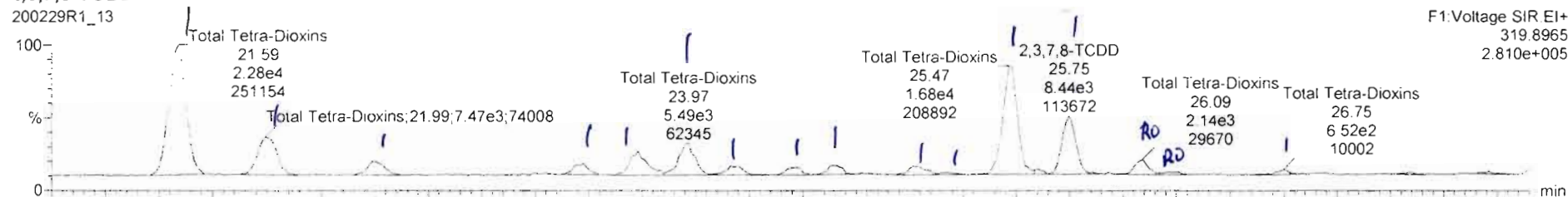
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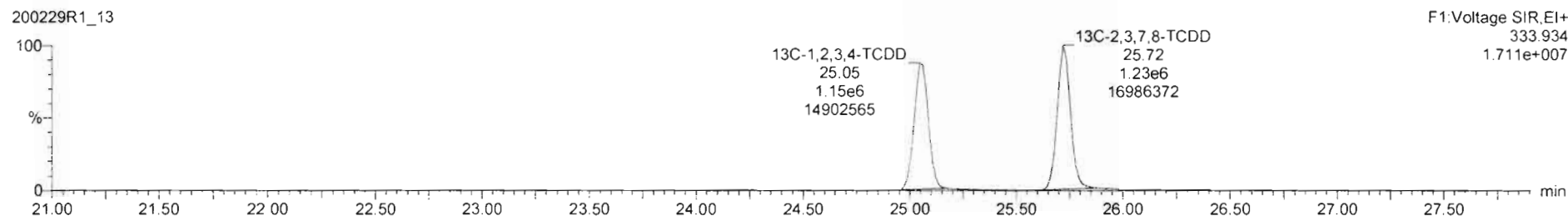
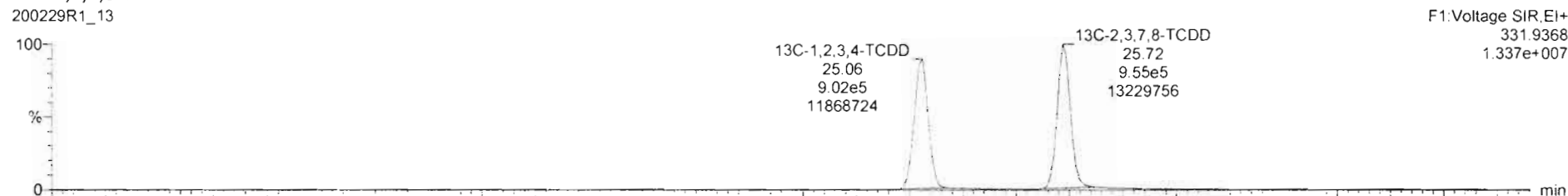
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2,3,7,8-TCDD

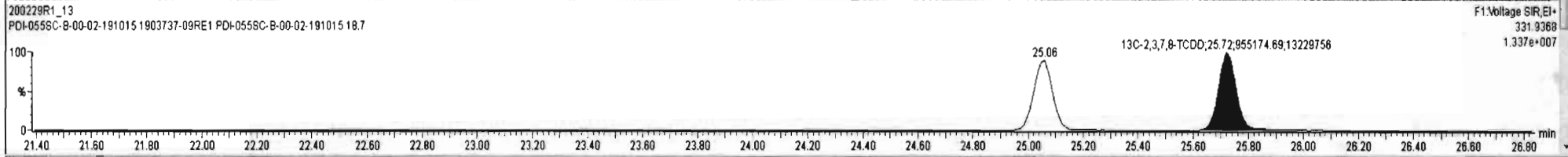
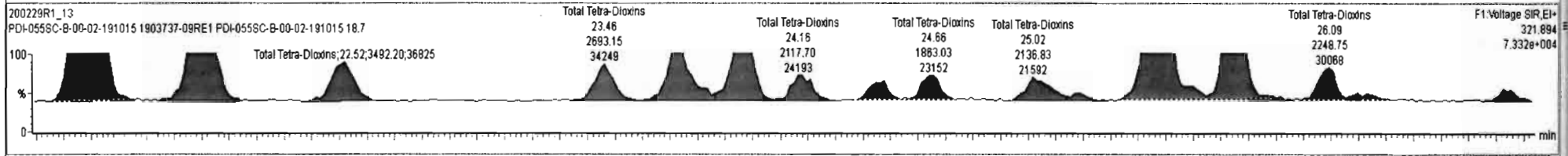
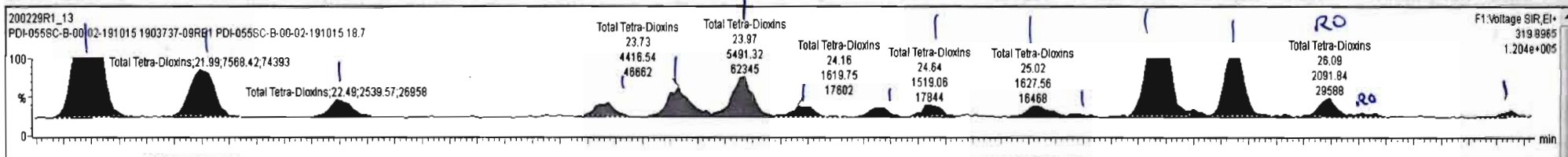


13C-2,3,7,8-TCDD



#	Name	Resp	RA	n/y	R/F	wtAval	Pred_RT	RT	Pred_R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9981	10.021	24.62		0.000		NO	16.56		0.0627	17.00
40	Total Penta-Dioxins				0.9723	10.021	29.96		0.000		NO	22.75		0.0652	23.32

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1 ^o Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.59	2.298e4	2.887e4	0.770	0.80	NO	4.7864	4.7864
2	39 Total Tetra-Dioxins	24.62	21.99	7.568e3	1.079e4	0.770	0.70	NO	1.6943	1.6943
3	39 Total Tetra-Dioxins	24.62	22.49	2.540e3	3.492e3	0.770	0.73	NO	0.55681	0.55681
4	39 Total Tetra-Dioxins	24.62	23.48	1.803e3	2.693e3	0.770	0.67	NO	0.41510	0.41510
5	39 Total Tetra-Dioxins	24.62	23.73	4.417e3	5.238e3	0.770	0.84	NO	0.89123	0.89123
6	39 Total Tetra-Dioxins	24.62	23.97	5.491e3	6.374e3	0.770	0.86	NO	1.0953	1.0953
7	39 Total Tetra-Dioxins	24.62	24.16	1.620e3	2.116e3	0.770	0.76	NO	0.34502	0.34502
8	39 Total Tetra-Dioxins	24.62	24.48	1.203e3	1.466e3	0.770	0.82	NO	0.24643	0.24643
9	39 Total Tetra-Dioxins	24.62	24.64	1.519e3	1.863e3	0.770	0.82	NO	0.31221	0.31221
10	39 Total Tetra-Dioxins	24.62	25.02	1.628e3	2.137e3	0.770	0.78	NO	0.34751	0.34751
11	39 Total Tetra-Dioxins	24.62	25.18	3.262e2	4.638e2	0.770	0.67	NO	0.074757	0.074757
12	39 Total Tetra-Dioxins	24.62	25.47	1.784e4	2.290e4	0.770	0.77	NO	3.7421	3.7421
13	1 2,3,7,8-TCDD	25.75	25.75	8.971e3	1.187e4	0.770	0.76	NO	1.9238	1.9238
14	39 Total Tetra-Dioxins	24.62	26.09	2.092e3	2.249e3	0.770	0.93	YES	0.36744	0.00000
15	39 Total Tetra-Dioxins	24.62	26.21	5.159e2	4.736e2	0.770	1.09	YES	0.077385	0.00000
18	39 Total Tetra-Dioxins	24.62	26.75	5.862e2	8.023e2	0.770	0.73	NO	0.12817	0.12817



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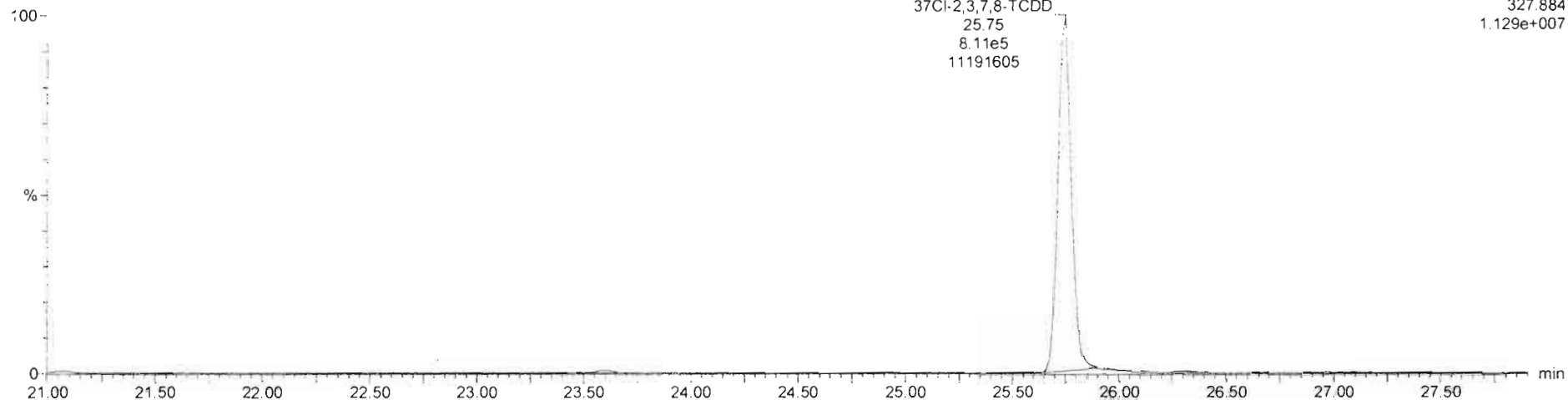
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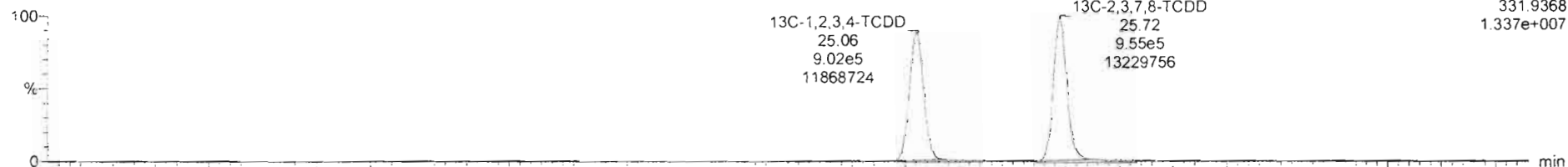
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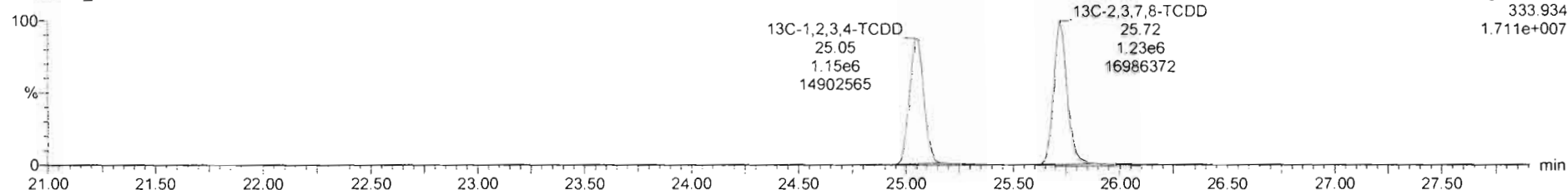


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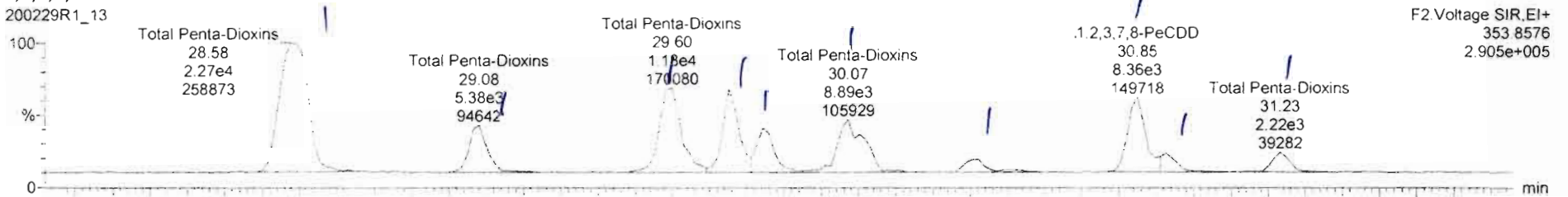
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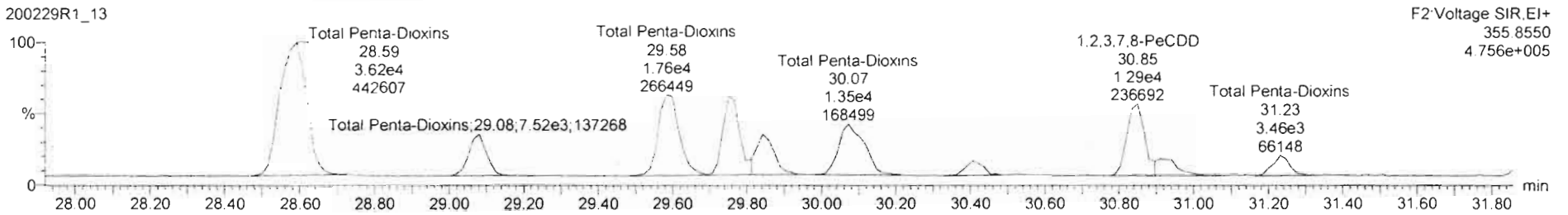
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1,2,3,7,8-PeCDD

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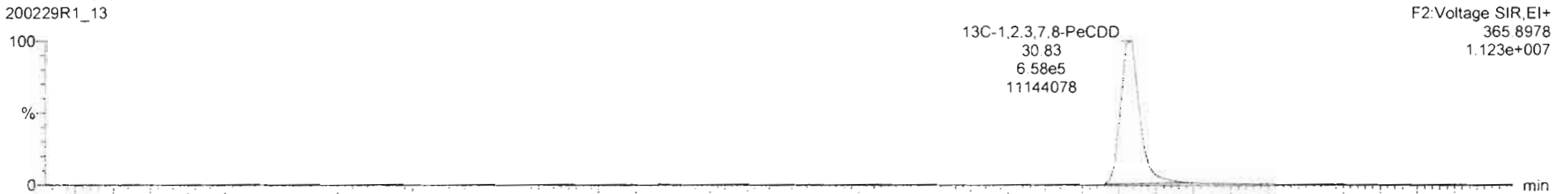


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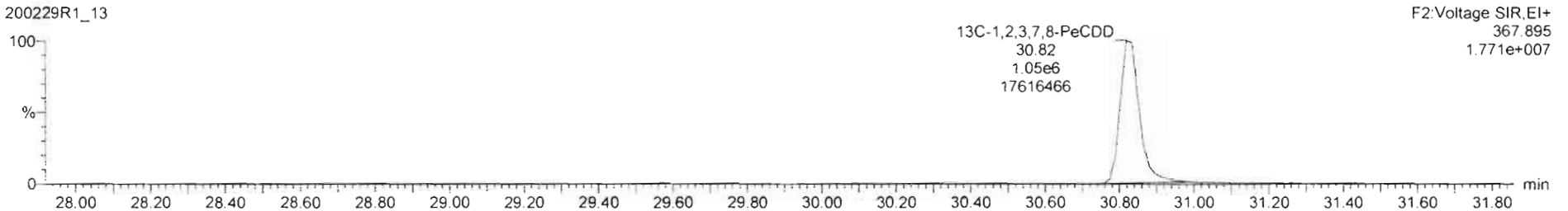


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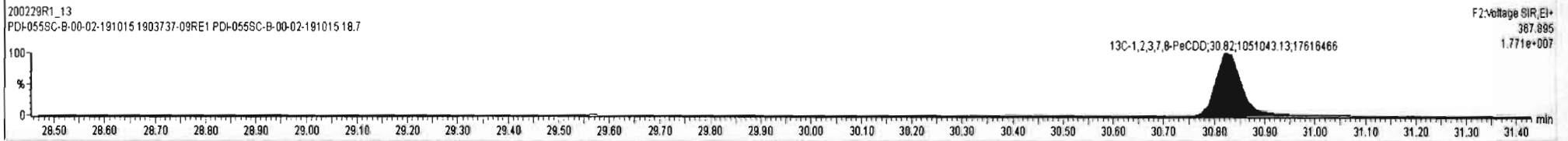
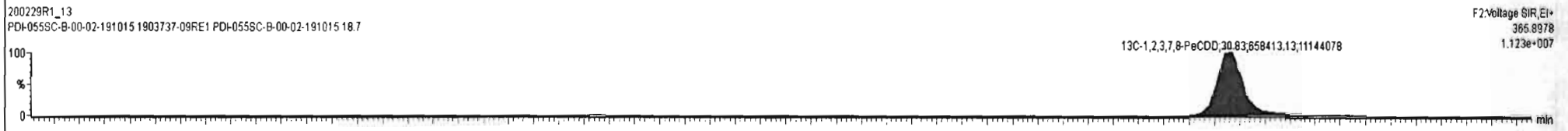
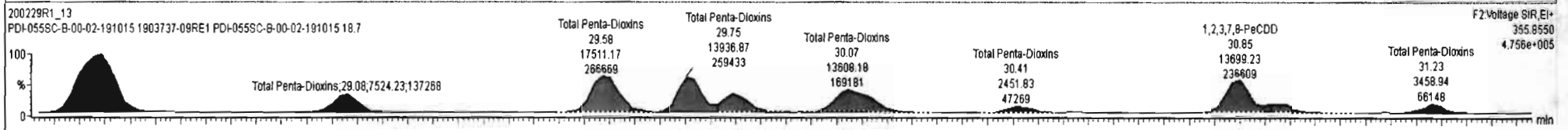
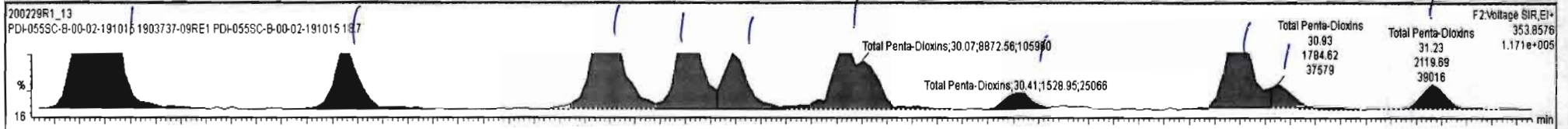
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200229R1_13-1903737-09RE1 PDI-055SC-B-00-02-191015 18.7- PDI-055SC-B-00-02-191015

#	Name	Resp	RA	n/y	RRF	wtMol	PredRT	RT	Pred R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9723	19.021	29.96		0.000		NO	23.37		0.0652	23.37
41	Total Hexa-Dioxins				0.9211	10.021	33.63		0.000		NO	200.81		0.286	201.51

#	Name	PredRT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.96	29.58	2.271e4	3.620e4	0.630	0.63	NO	7.0743	7.0743
2	Total Penta-Dioxins	29.96	29.08	5.379e3	7.524e3	0.630	0.71	NO	1.5494	1.5494
3	Total Penta-Dioxins	29.96	29.60	1.160e4	1.751e4	0.630	0.66	NO	3.4961	3.4961
4	Total Penta-Dioxins	29.96	29.75	8.578e3	1.394e4	0.630	0.62	NO	2.7036	2.7036
5	Total Penta-Dioxins	29.96	29.84	4.788e3	7.532e3	0.630	0.64	NO	1.4795	1.4795
6	Total Penta-Dioxins	29.96	30.07	8.873e3	1.361e4	0.630	0.65	NO	2.6995	2.6995
7	Total Penta-Dioxins	29.96	30.41	1.529e3	2.452e3	0.630	0.62	NO	0.47801	0.47801
8	2,3,7,8-PeCDD	30.86	30.85	8.356e3	1.370e4	0.630	0.61	NO	2.6484	2.6484
9	Total Penta-Dioxins	29.96	30.83	1.785e3	2.950e3	0.630	0.61	NO	0.56848	0.56848
10	Total Penta-Dioxins	29.96	31.23	2.120e3	3.459e3	0.630	0.61	NO	0.66988	0.66988



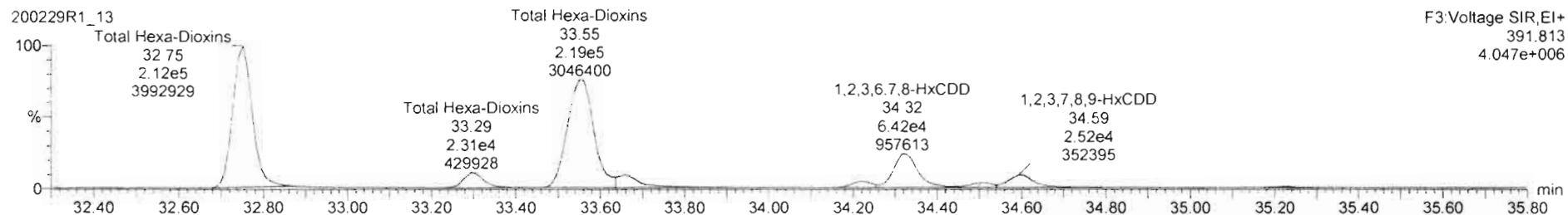
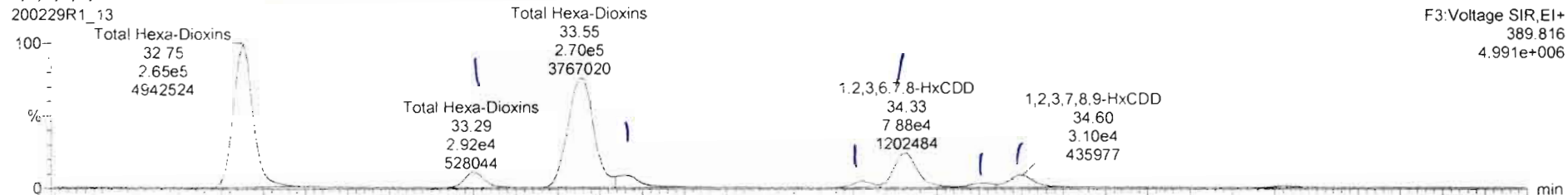
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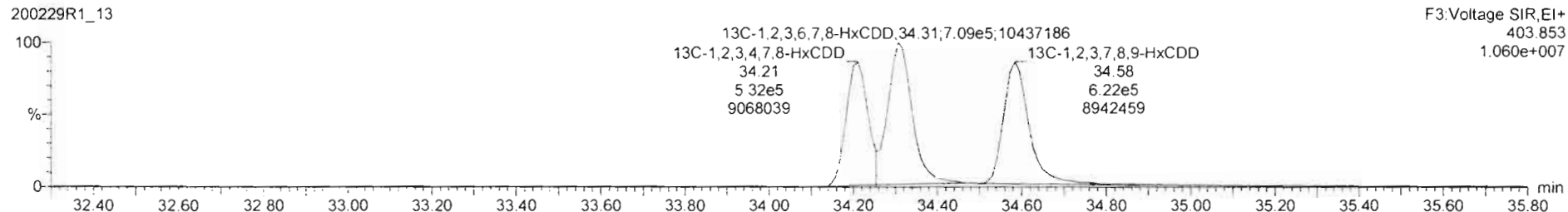
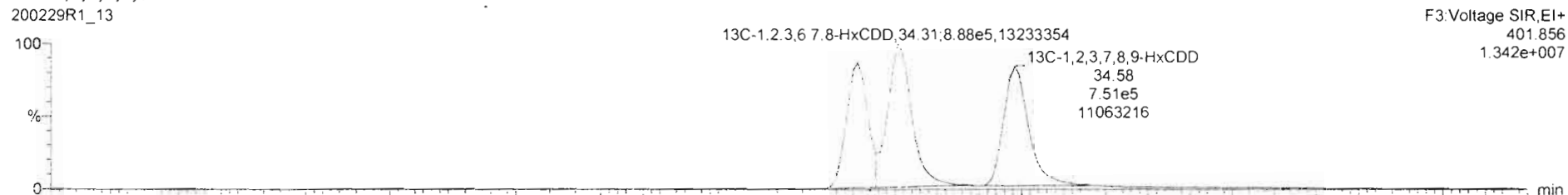
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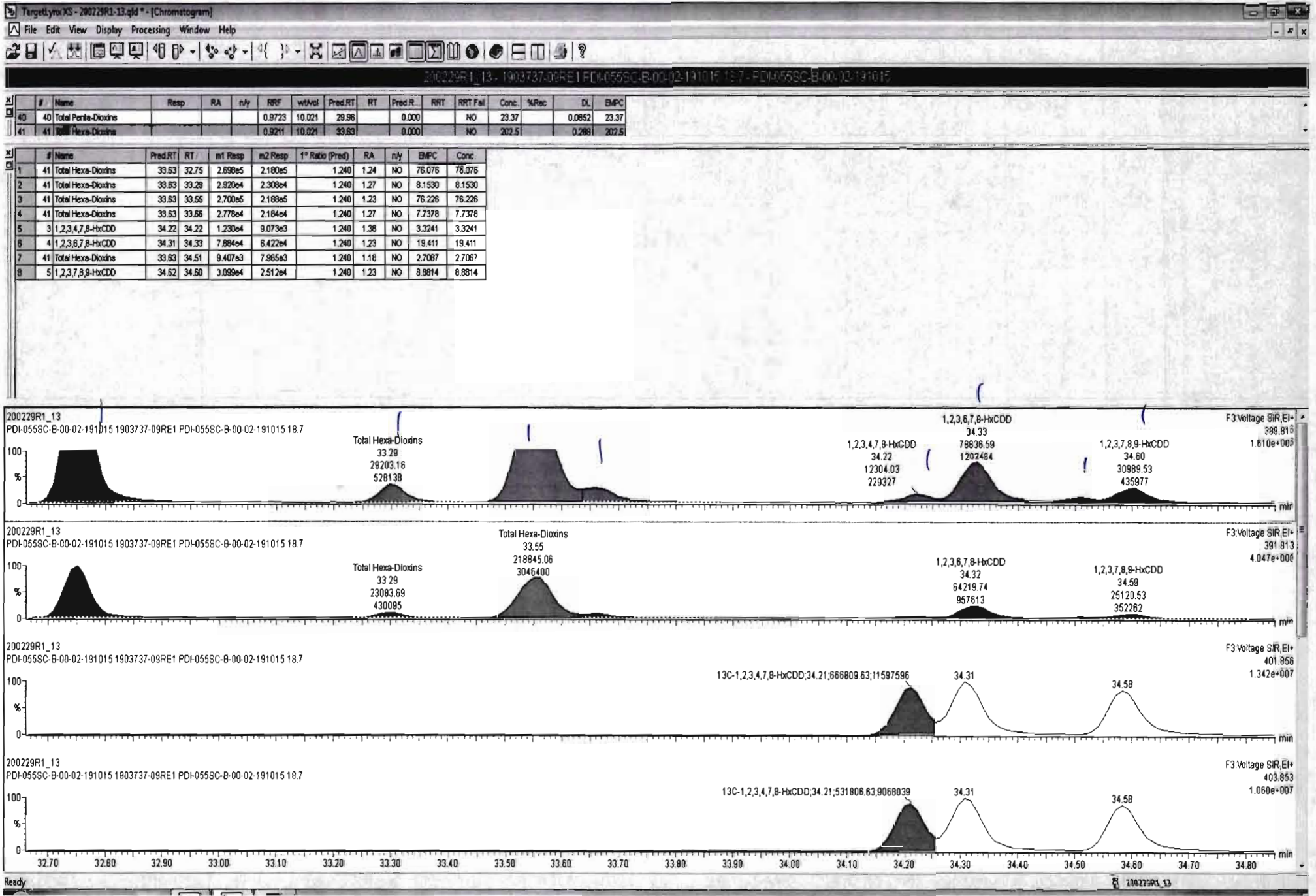
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1,2,3,4,7,8-HxCDD



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





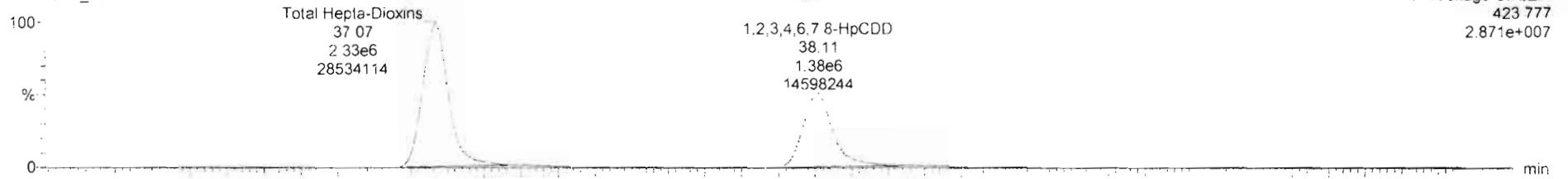
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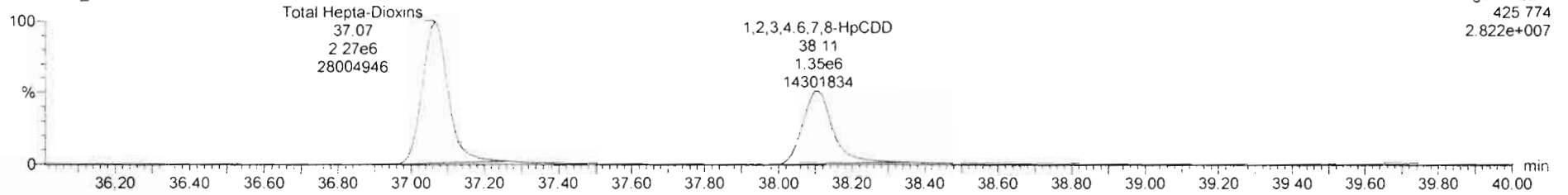
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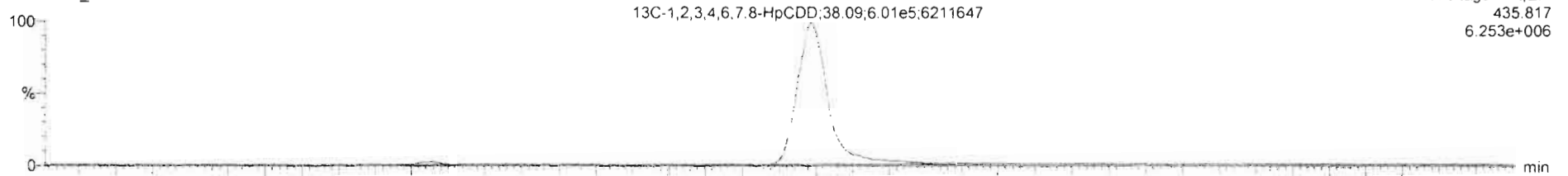


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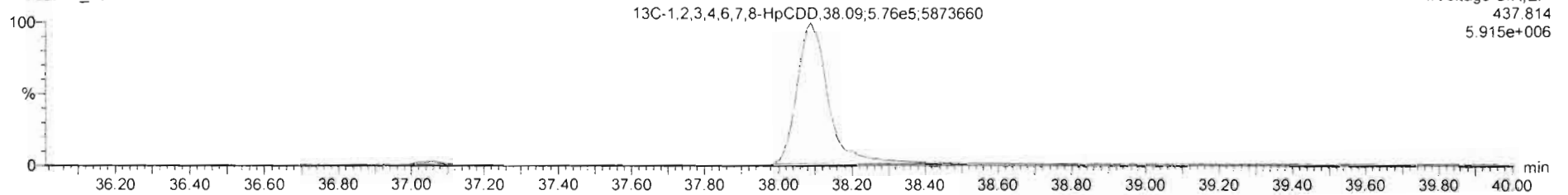


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200229R1_13

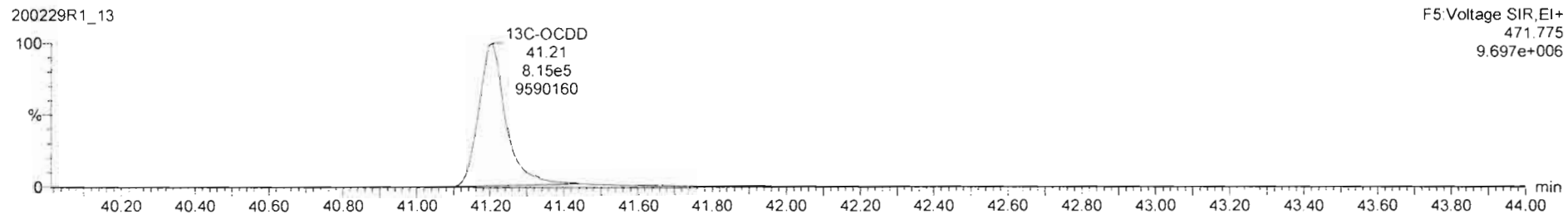
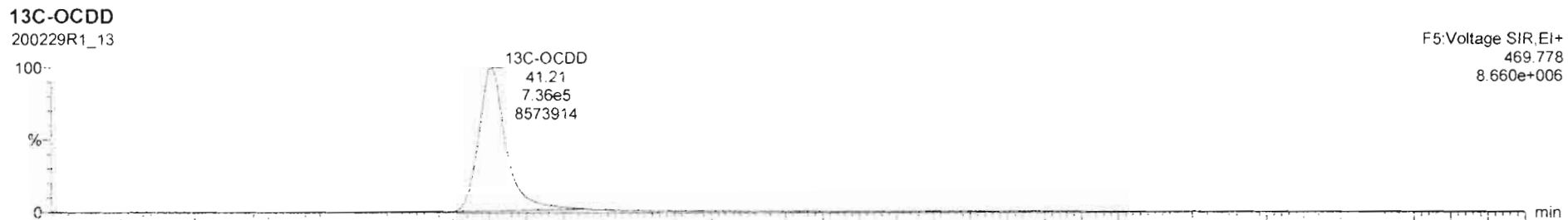
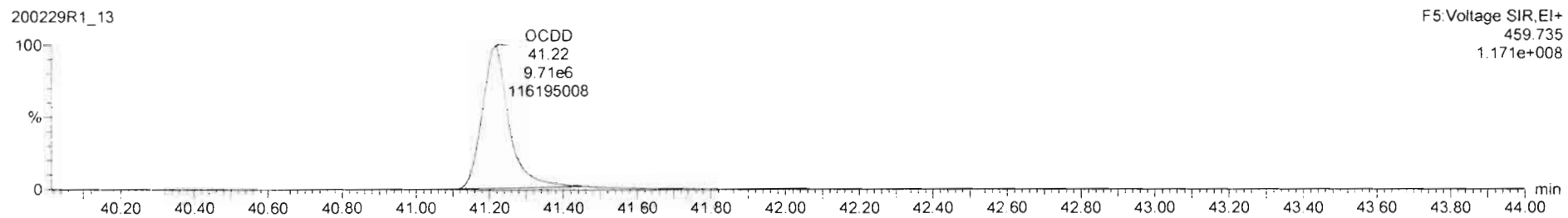
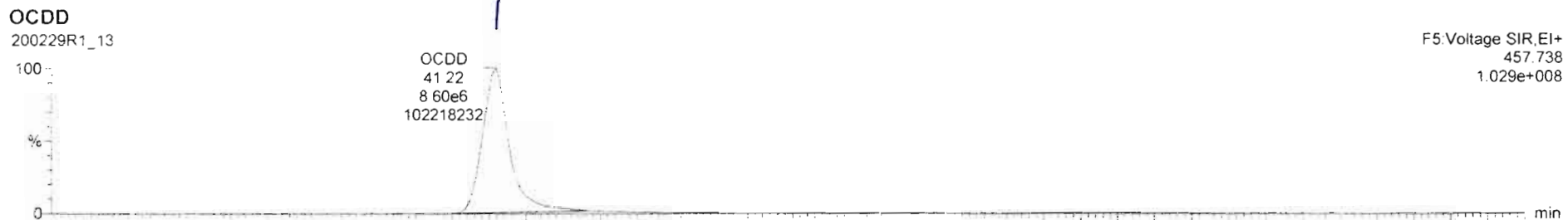


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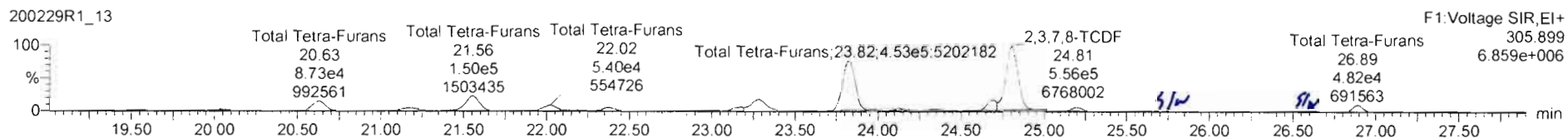
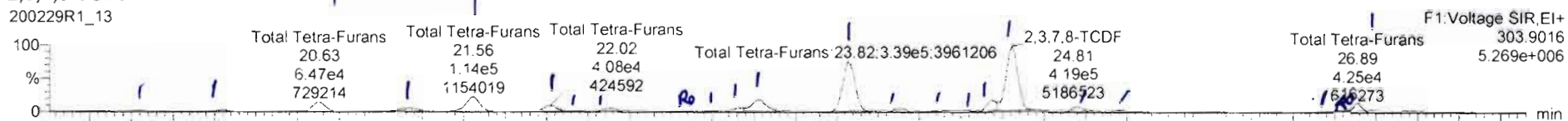
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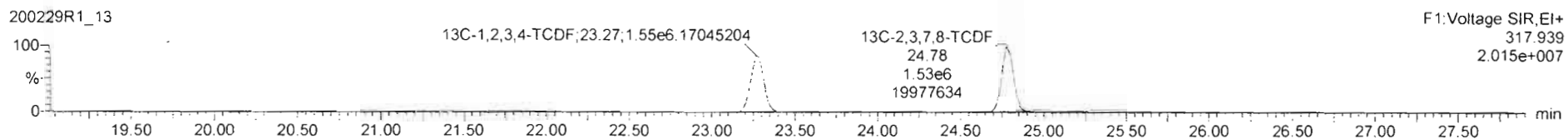
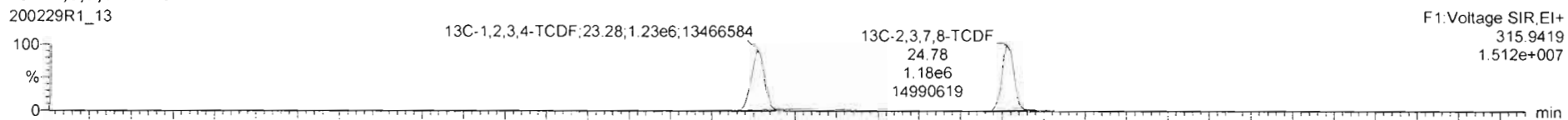
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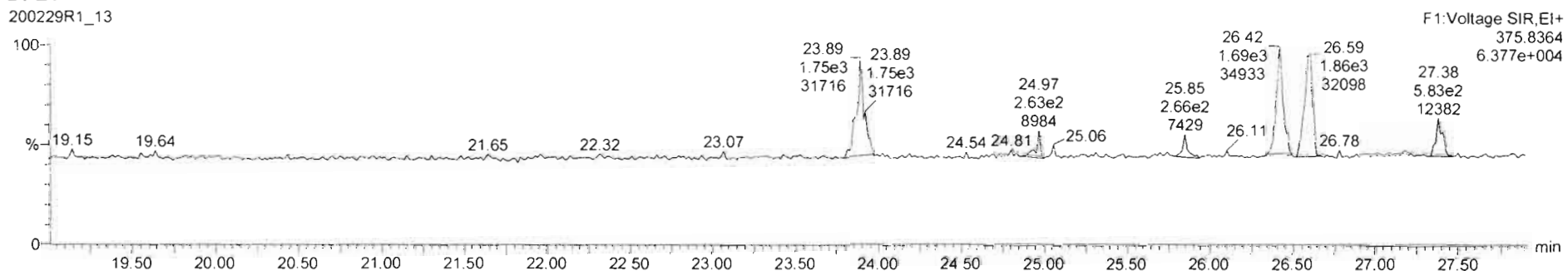
2,3,7,8-TCDF



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



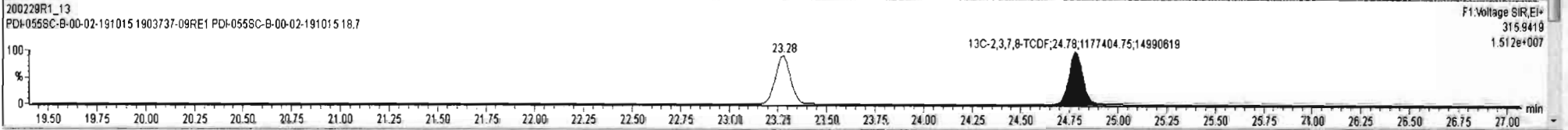
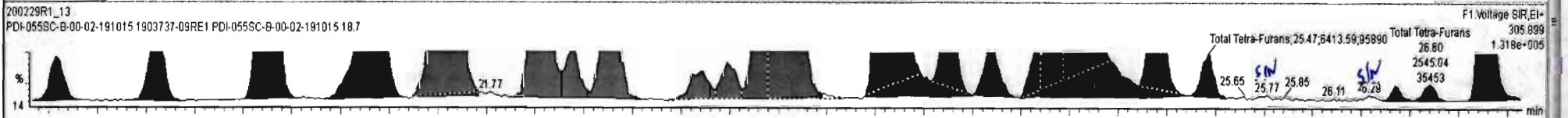
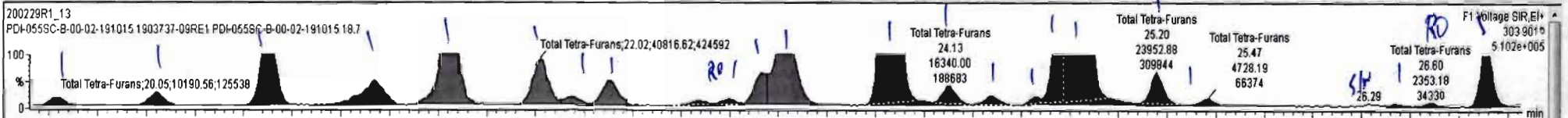
DPE1



200229R1_13 - 1903737-09RE1 PDI-0555C-B-00-02-191015 18.7 - PDI-0555C-B-00-02-191015

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8020	10.021	23.61		0.000		NO	291.4		0.114	263.5
44	1st Func. Penta-Furans				0.9074	10.021	27.08		0.000		NO	35.26		0.0310	35.26

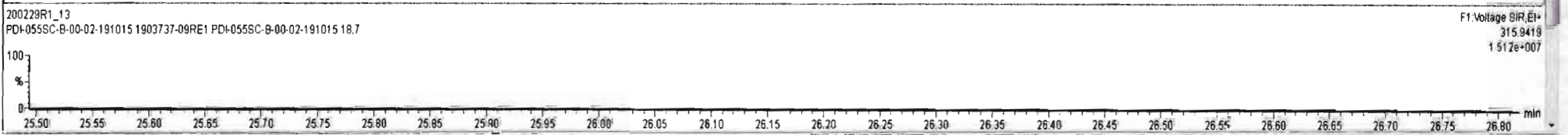
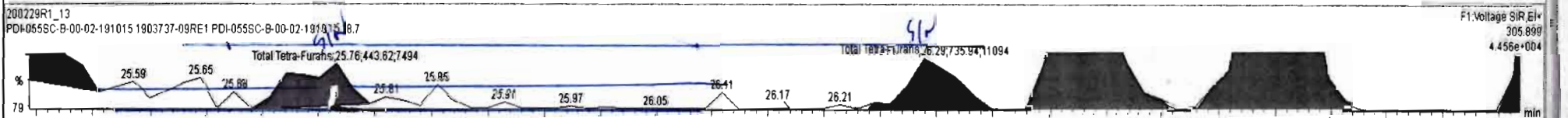
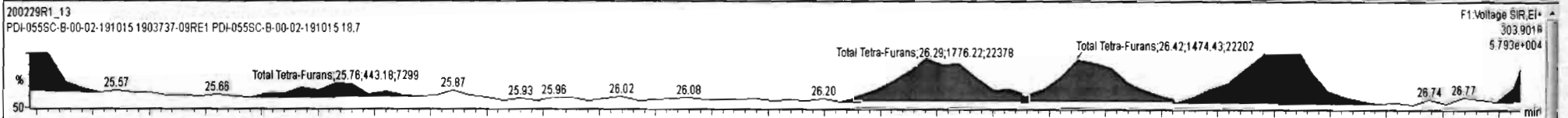
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	19.54	5.809e3	7.539e3	0.770	0.77	NO	1.2290	1.2290
2	43 Total Tetra-Furans	23.61	20.05	1.019e4	1.359e4	0.770	0.75	NO	2.1890	2.1890
3	43 Total Tetra-Furans	23.61	20.63	6.471e4	8.728e4	0.770	0.74	NO	13.994	13.994
4	43 Total Tetra-Furans	23.61	21.17	3.199e4	4.194e4	0.770	0.76	NO	6.8080	6.8080
5	43 Total Tetra-Furans	23.61	21.56	1.139e5	1.521e5	0.770	0.75	NO	24.497	24.497
6	43 Total Tetra-Furans	23.61	22.02	4.062e4	5.400e4	0.770	0.76	NO	8.7307	8.7307
7	43 Total Tetra-Furans	23.61	22.19	6.561e3	8.924e3	0.770	0.74	NO	1.4258	1.4258
8	43 Total Tetra-Furans	23.61	22.38	2.250e4	3.019e4	0.770	0.75	NO	4.8514	4.8514
9	43 Total Tetra-Furans	23.61	22.85	3.778e3	5.936e3	0.770	0.64	YES	0.79966	0.00000
10	43 Total Tetra-Furans	23.61	23.00	5.411e3	7.557e3	0.770	0.72	NO	1.1941	1.1941
11	43 Total Tetra-Furans	23.61	23.16	2.135e4	2.931e4	0.770	0.73	NO	4.6653	4.6653
12	43 Total Tetra-Furans	23.61	23.28	1.023e5	1.366e5	0.770	0.75	NO	22.002	22.002
13	43 Total Tetra-Furans	23.61	23.82	3.484e5	4.621e5	0.770	0.75	NO	74.633	74.633
14	43 Total Tetra-Furans	23.61	24.13	1.634e4	2.095e4	0.770	0.78	NO	3.4338	3.4338
15	43 Total Tetra-Furans	23.61	24.34	7.950e3	9.502e3	0.770	0.64	NO	1.6070	1.6070
16	43 Total Tetra-Furans	23.61	24.57	4.099e3	6.200e3	0.770	0.66	NO	0.94891	0.00000
17	43 Total Tetra-Furans	23.61	24.69	5.613e4	7.530e4	0.770	0.75	NO	12.102	12.102
18	8 2,3,7,8-TCDF	24.80	24.81	4.336e5	5.770e5	0.770	0.75	NO	93.059	93.059
19	43 Total Tetra-Furans	23.61	25.20	2.395e4	3.332e4	0.770	0.72	NO	5.2737	5.2737
20	43 Total Tetra-Furans	23.61	25.47	4.728e3	6.414e3	0.770	0.74	NO	1.0259	1.0259
21	43 Total Tetra-Furans	23.61	26.42	1.474e3	1.924e3	0.770	0.77	NO	0.31291	0.31291
22	43 Total Tetra-Furans	23.61	26.60	2.353e3	2.545e3	0.770	0.92	YES	0.41479	0.00000
23	43 Total Tetra-Furans	23.61	26.89	4.248e4	4.621e4	0.770	0.68	NO	8.3510	8.3510



200229R1_13 - 1903737-09RE1 PDI-0555C-B-00-02-191015 18.7 - PDI-0555C-B-00-02-191015

#	Name	Resp	RA	n/y	RRF	wVal	Pred.RT	RT	Pred.R.	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9231	10.021	37.64		0.000		NO	1346		1.50	1346
43	Total Tetra-Furans				0.8020	10.021	23.61		0.000		NO	265.5		0.114	267.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	19.54	5.809e3	7.538e3	0.770	0.77	NO	1.2290	1.2290
2	Total Tetra-Furans	23.61	20.05	1.019e4	1.358e4	0.770	0.75	NO	2.1890	2.1890
3	Total Tetra-Furans	23.61	20.63	6.471e4	8.728e4	0.770	0.74	NO	13.994	13.994
4	Total Tetra-Furans	23.61	21.17	3.199e4	4.194e4	0.770	0.76	NO	6.8080	6.8080
5	Total Tetra-Furans	23.61	21.56	1.139e5	1.505e5	0.770	0.76	NO	24.347	24.347
6	Total Tetra-Furans	23.61	22.02	4.082e4	5.400e4	0.770	0.76	NO	8.7307	8.7307
7	Total Tetra-Furans	23.61	22.19	6.561e3	8.924e3	0.770	0.74	NO	1.4258	1.4258
8	Total Tetra-Furans	23.61	22.38	2.250e4	3.019e4	0.770	0.75	NO	4.8514	4.8514
9	Total Tetra-Furans	23.61	22.85	4.248e3	6.723e3	0.770	0.63	YES	0.89946	0.00000
10	Total Tetra-Furans	23.61	23.00	4.941e3	6.895e3	0.770	0.72	NO	1.0899	1.0899
11	Total Tetra-Furans	23.61	23.16	2.135e4	2.931e4	0.770	0.73	NO	4.6653	4.6653
12	Total Tetra-Furans	23.61	23.28	1.023e5	1.374e5	0.770	0.74	NO	22.070	22.070
13	Total Tetra-Furans	23.61	23.82	3.389e5	4.525e5	0.770	0.75	NO	72.871	72.871
14	Total Tetra-Furans	23.61	24.13	1.388e4	1.682e4	0.770	0.82	NO	2.8264	2.8264
15	Total Tetra-Furans	23.61	24.34	7.330e3	9.502e3	0.770	0.77	NO	1.5499	1.5499
16	Total Tetra-Furans	23.61	24.57	3.645e3	5.391e3	0.770	0.68	NO	0.83207	0.83207
17	Total Tetra-Furans	23.61	24.69	5.415e4	7.208e4	0.770	0.75	NO	11.623	11.623
18	2,3,7,8-TCDF	24.80	24.81	4.194e5	5.560e5	0.770	0.75	NO	89.819	89.819
19	Total Tetra-Furans	23.61	25.20	2.178e4	2.976e4	0.770	0.73	NO	4.7461	4.7461
20	Total Tetra-Furans	23.61	25.47	4.728e3	6.414e3	0.770	0.74	NO	1.0259	1.0259
21	Total Tetra-Furans	23.61	25.75	4.432e2	4.436e2	0.770	1.00	YES	0.072301	0.00000
22	Total Tetra-Furans	23.61	26.29	1.778e3	7.359e2	0.770	2.41	YES	0.11894	0.00000
23	Total Tetra-Furans	23.61	26.42	1.474e3	1.924e3	0.770	0.77	NO	0.31291	0.31291
24	Total Tetra-Furans	23.61	26.80	2.353e3	2.545e3	0.770	0.92	YES	0.41479	0.00000
25	Total Tetra-Furans	23.61	26.89	4.248e4	4.821e4	0.770	0.88	NO	8.3510	8.3510
26	Total Tetra-Furans	23.61	27.40	5.688e2	7.173e2	0.770	0.79	NO	0.11824	0.11824



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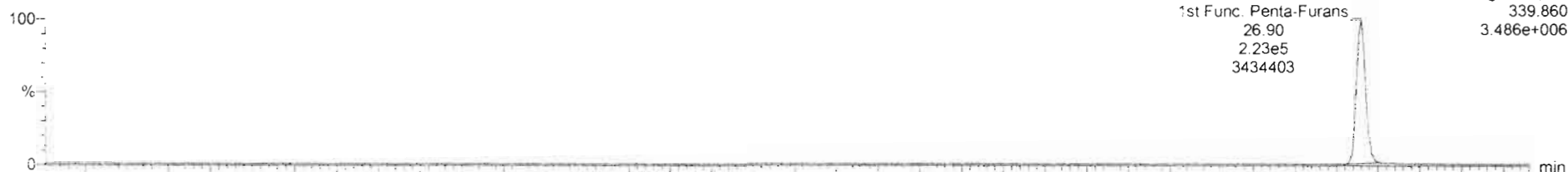
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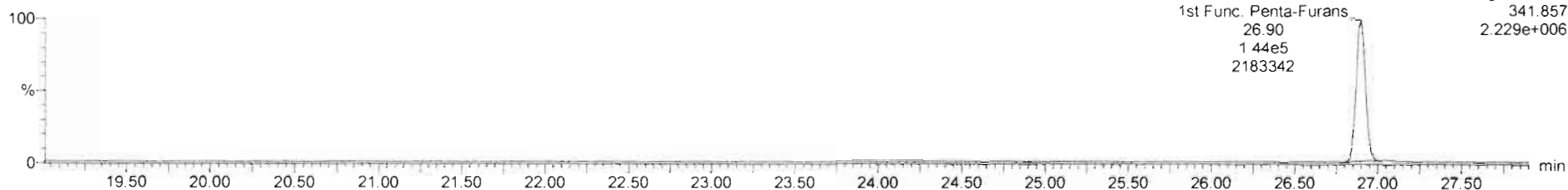
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1st Func. Penta-Furans

200229R1_13

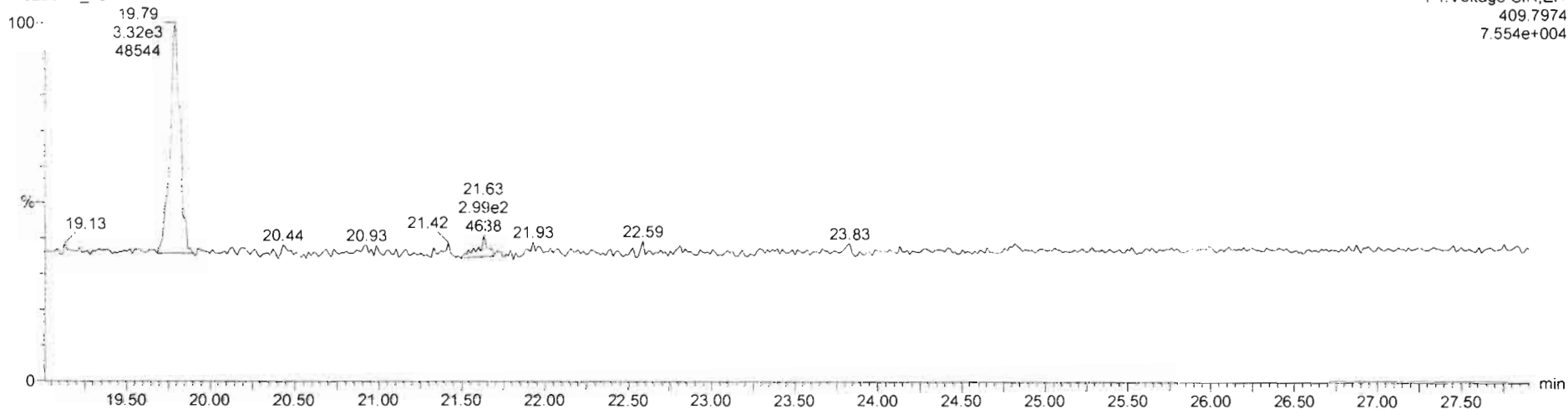


200229R1_13



DPE6

200229R1_13



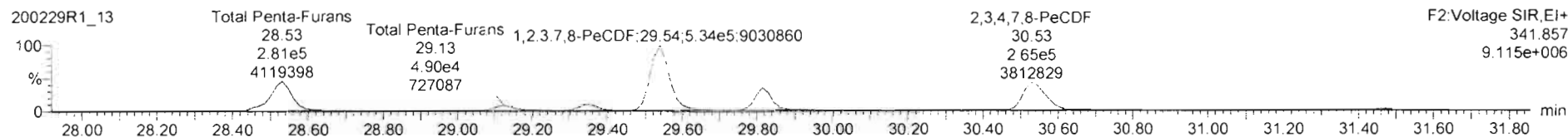
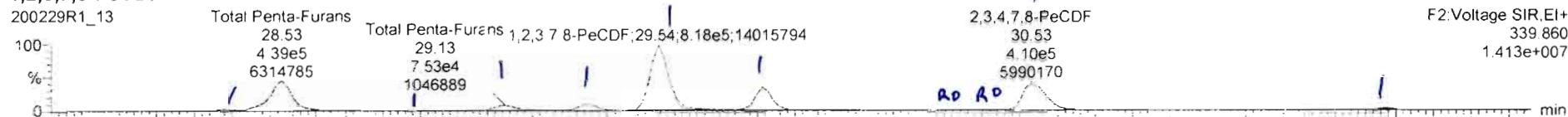
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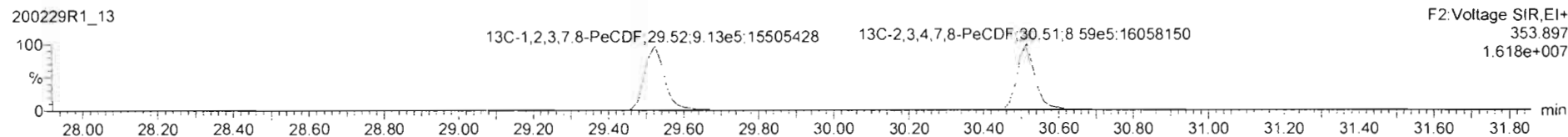
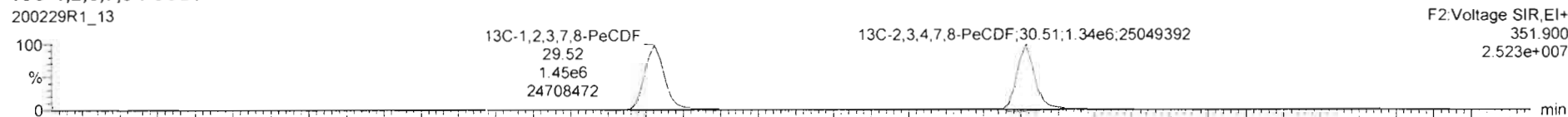
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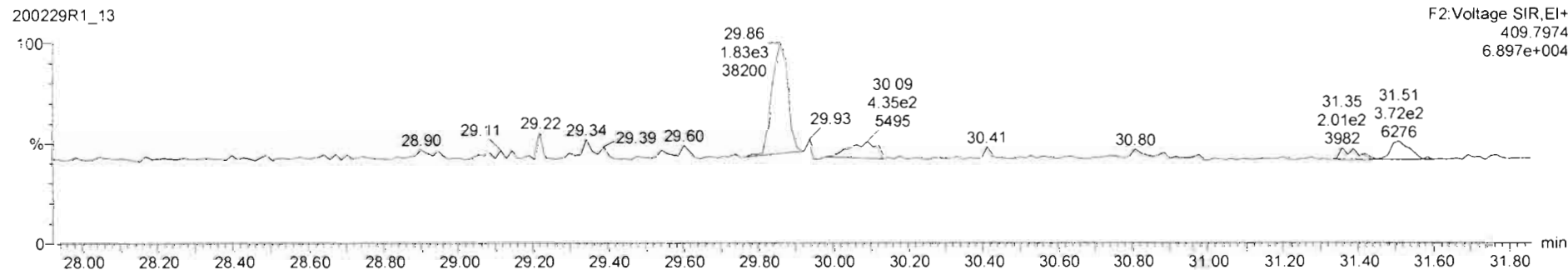
1,2,3,7,8-PeCDF



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

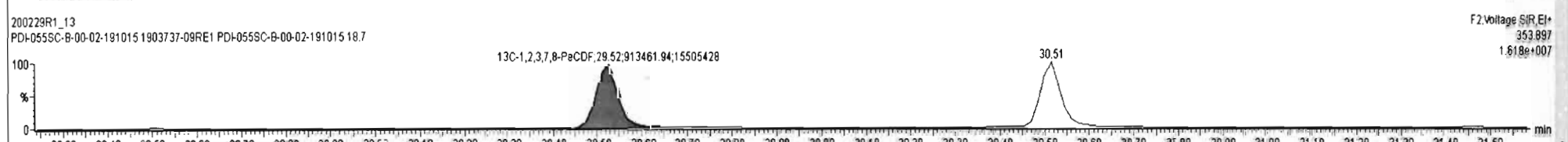
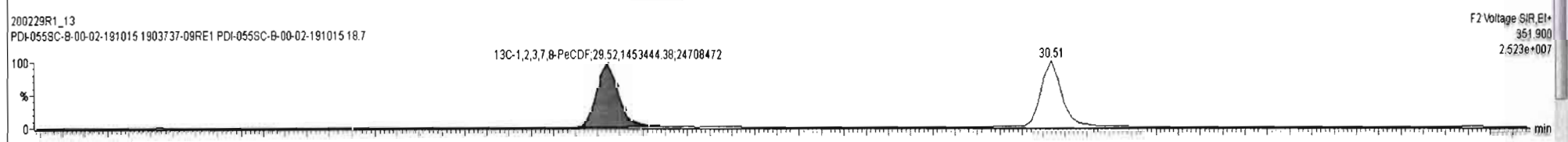
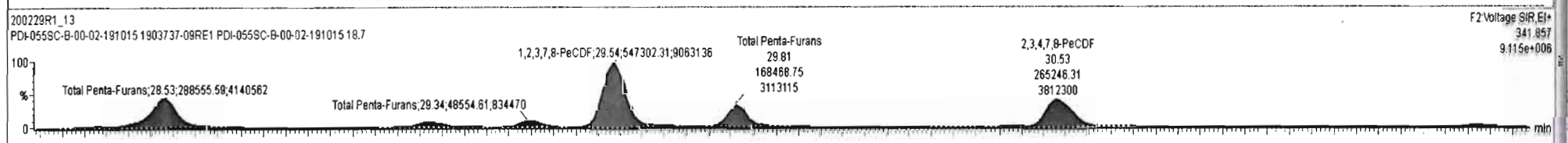
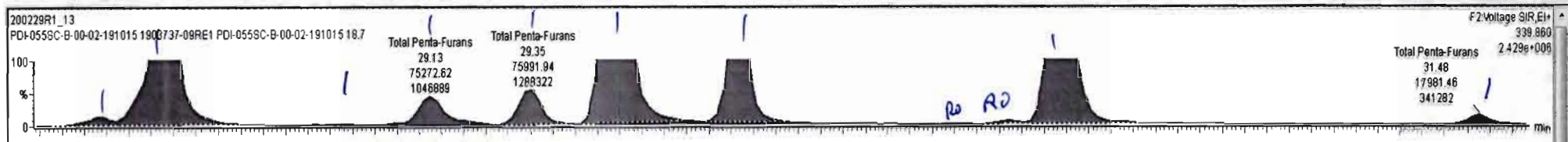


DPE2



#	Name	Resp	RA	n/y	RPF	wtAvd	Pred_RT	RT	Pred_R...	RRT	RRT Fail	Conc.	%Rec	DL	BMFC
45	Total Penta-Furans				0.9074	10.021	29.27		0.000		NO	335.3		0.342	336.2
46	Total Hexa-Furans				0.8982	10.021	33.56		0.000		NO	522.5		0.364	522.5

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	BMFC	Conc.
1	45 Total Penta-Furans	29.27	29.38	1.644e4	1.047e4	1.550	1.57	NO	2.5898	2.5898
2	45 Total Penta-Furans	29.27	29.53	4.469e5	2.886e5	1.550	1.56	NO	70.788	70.788
3	45 Total Penta-Furans	29.27	29.91	2.135e3	1.604e3	1.550	1.33	NO	0.35981	0.35981
4	45 Total Penta-Furans	29.27	29.13	7.527e4	5.030e4	1.550	1.50	NO	12.086	12.086
5	45 Total Penta-Furans	29.27	29.35	7.599e4	4.855e4	1.550	1.57	NO	11.988	11.988
6	9 1,2,3,7,8-PeCDF	29.54	29.54	8.383e5	5.473e5	1.550	1.53	NO	128.77	128.77
7	45 Total Penta-Furans	29.27	29.81	2.620e5	1.685e5	1.550	1.56	NO	41.435	41.435
8	45 Total Penta-Furans	29.27	30.30	1.126e3	1.016e3	1.550	1.11	YES	0.17831	0.00000
9	45 Total Penta-Furans	29.27	30.42	5.012e3	4.081e3	1.550	1.23	YES	0.73363	0.00000
10	10 2,3,4,7,8-PeCDF	30.54	30.53	4.113e5	2.652e5	1.550	1.55	NO	84.388	84.388
11	45 Total Penta-Furans	29.27	31.48	1.799e4	1.176e4	1.550	1.53	NO	2.8629	2.8629



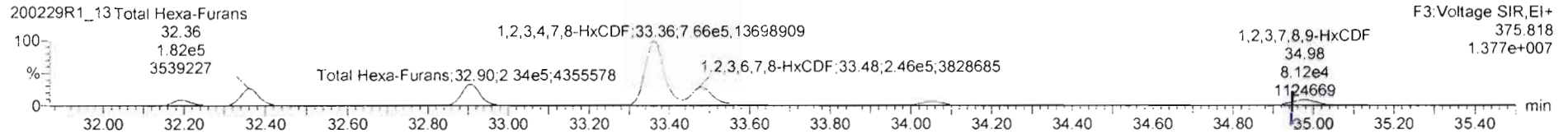
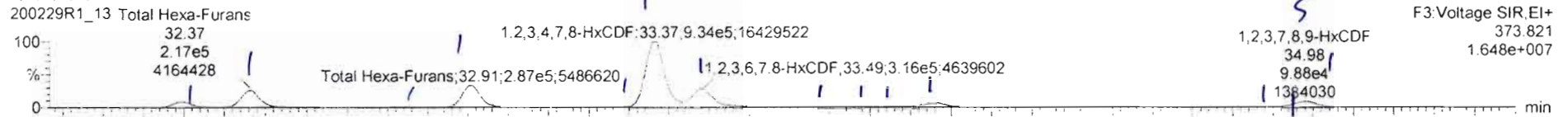
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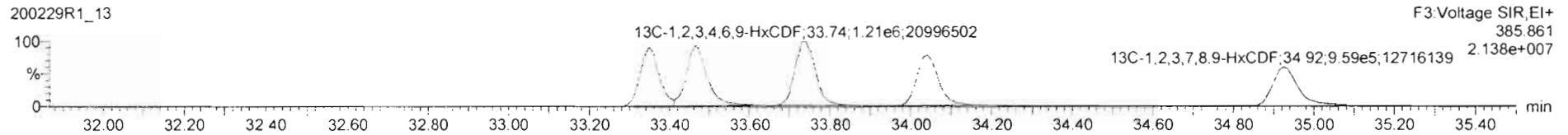
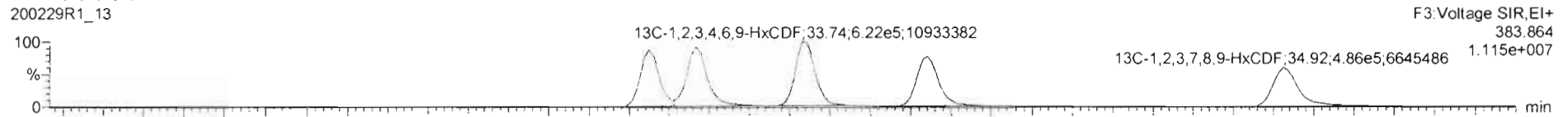
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Name: 200229R1_13, Date: 29-Feb-2020, Time: 20:43:33, ID: 1903737-09RE1 PDI-055SC-B-00-02-191015 18.7, Description: PDI-055SC-B-00-02-191015

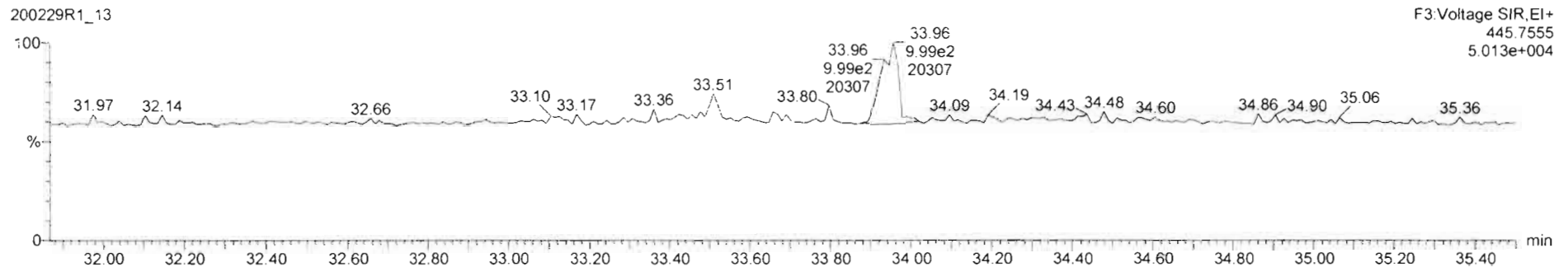
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13C-1,2,3,4,7,8-HxCDF



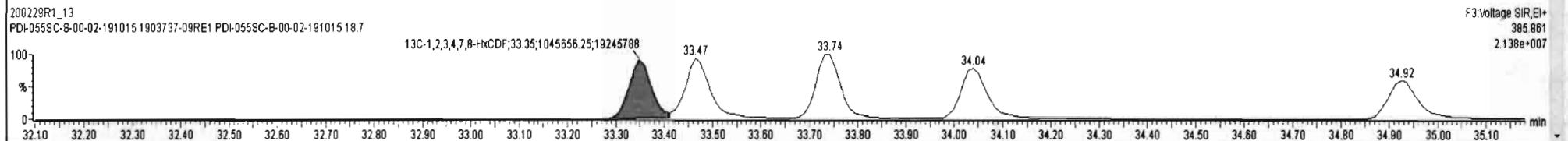
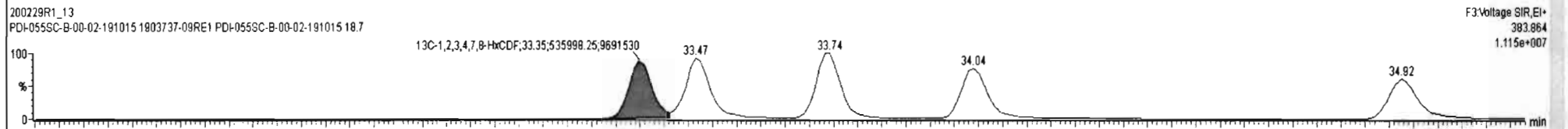
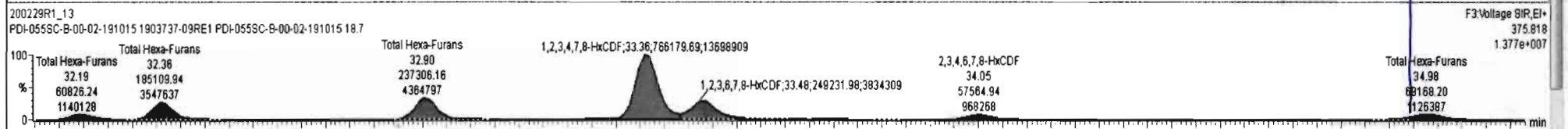
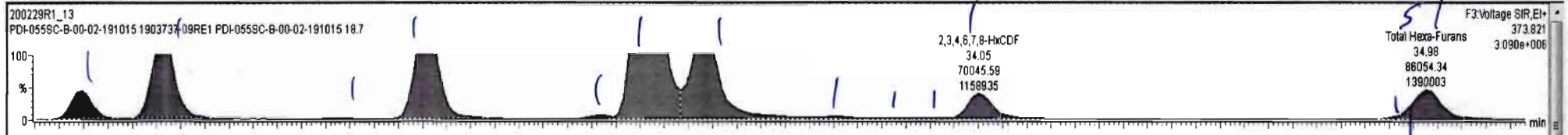
DPE3



200229R1_13 - 1903737-09RE1 PDI-0555C-B-00-02-191015.12.7 - PDI-0555C-B-00-02-191015

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.8982	10.021	33.58		0.000		NO	522.5		0.384	522.5
47	Total Hepta-Furans				0.8511	10.021	37.83		0.000		NO	538.1		0.686	538.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.20	7.342e4	6.083e4	1.240	1.21	NO	18.838	18.838
2	48 Total Hexa-Furans	33.58	32.37	2.257e5	1.851e5	1.240	1.22	NO	57.848	57.848
3	46 Total Hexa-Furans	33.56	32.72	4.078e3	3.252e3	1.240	1.25	NO	1.0282	1.0282
4	48 Total Hexa-Furans	33.58	32.91	2.929e5	2.373e5	1.240	1.23	NO	74.398	74.398
5	46 Total Hexa-Furans	33.56	33.26	8.386e3	6.008e3	1.240	1.40	NO	2.0196	2.0196
6	11 1,2,3,4,7,8-HxCDF	33.35	33.37	9.321e5	7.862e5	1.240	1.22	NO	248.52	248.52
7	12 1,2,3,6,7,8-HxCDF	33.48	33.49	3.032e5	2.492e5	1.240	1.22	NO	74.112	74.112
8	46 Total Hexa-Furans	33.56	33.75	4.169e3	3.492e3	1.240	1.19	NO	1.0750	1.0750
9	48 Total Hexa-Furans	33.58	33.85	8.517e2	7.344e2	1.240	1.16	NO	0.22254	0.22254
10	46 Total Hexa-Furans	33.56	33.96	7.864e2	5.419e2	1.240	1.41	NO	0.18357	0.18357
11	13 2,3,4,6,7,8-HxCDF	34.08	34.05	7.005e4	5.758e4	1.240	1.22	NO	18.405	18.405
12	14 1,2,3,7,8,9-HxCDF	34.92	34.95	1.411e4	1.214e4	1.240	1.16	NO	4.2282	4.2282
13	46 Total Hexa-Furans	33.56	34.98	8.605e4	6.917e4	1.240	1.24	NO	21.779	21.779



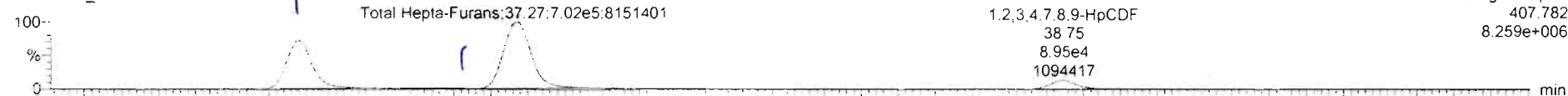
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

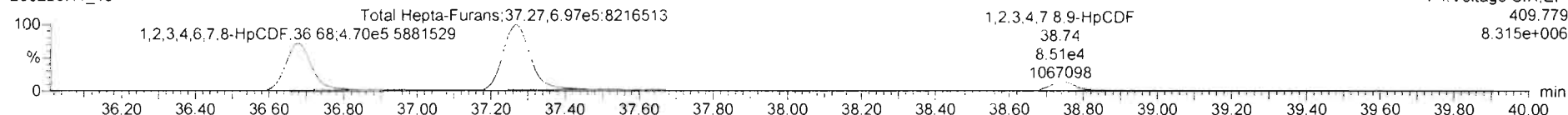
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1,2,3,4,6,7,8-HpCDF

200229R1_13

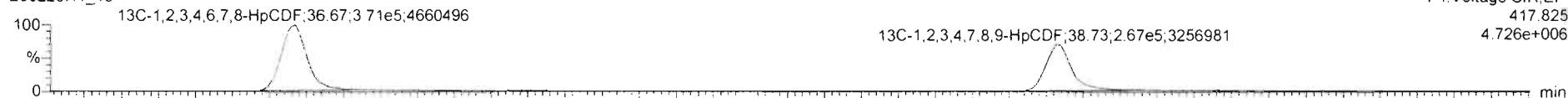


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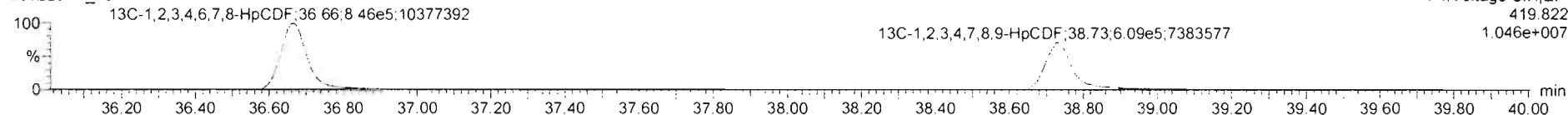


13C-1,2,3,4,6,7,8-HpCDF

200229R1_13

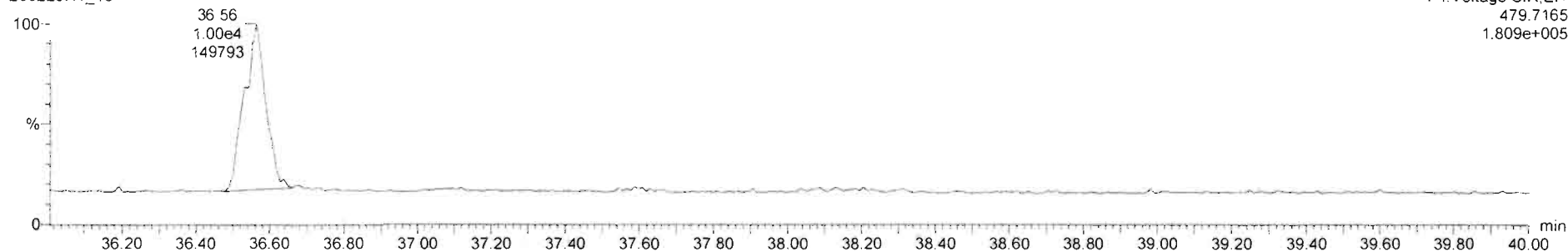


200229R1_13



DPE4

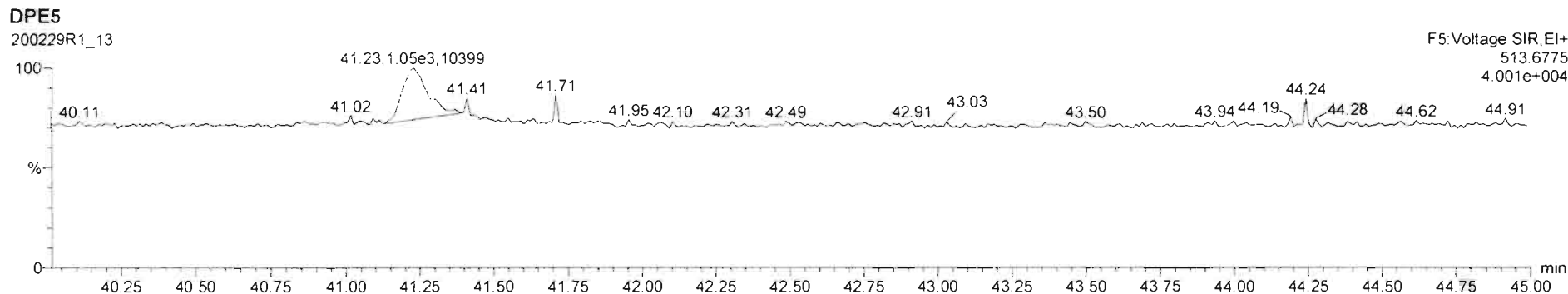
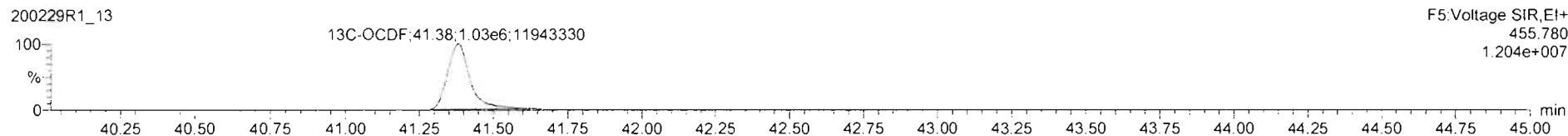
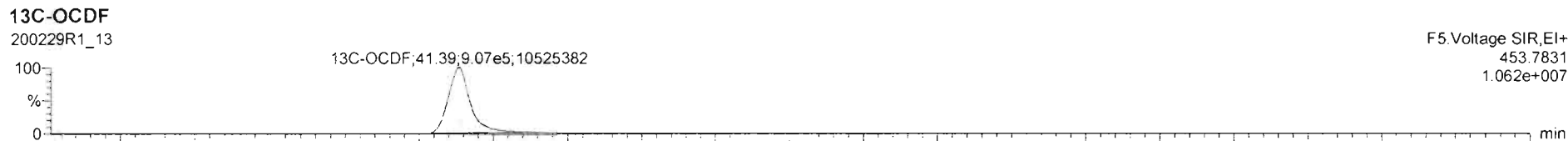
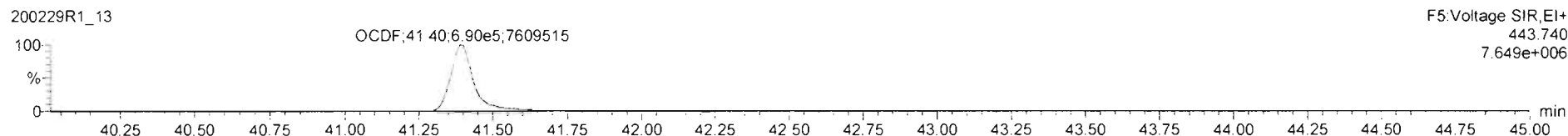
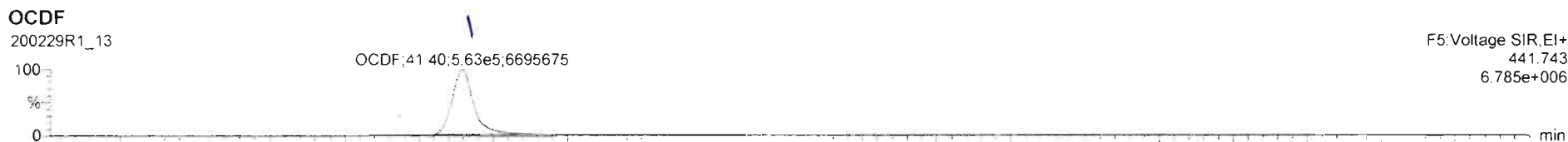
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

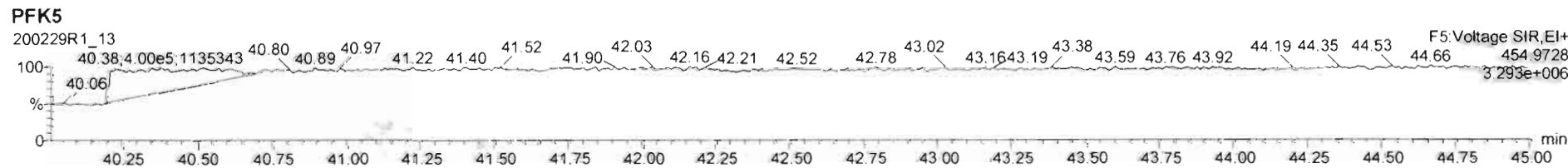
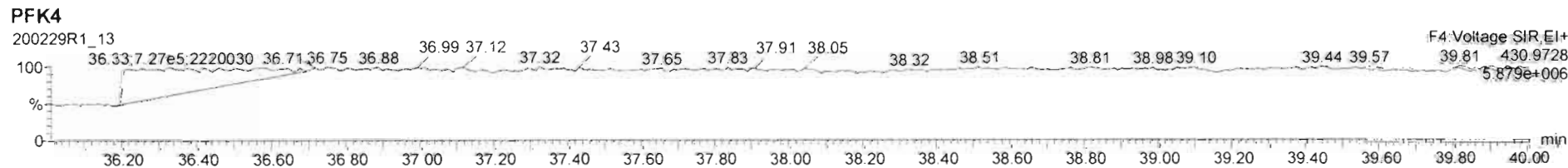
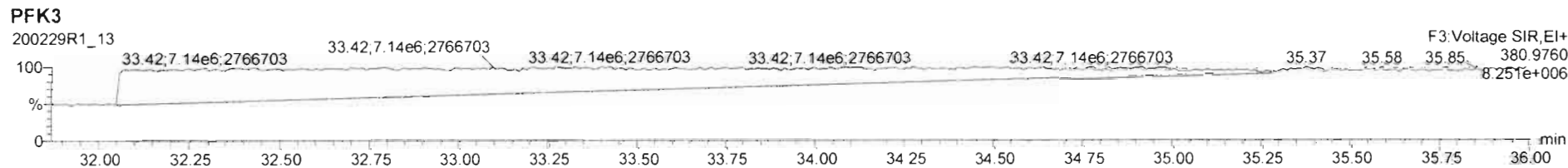
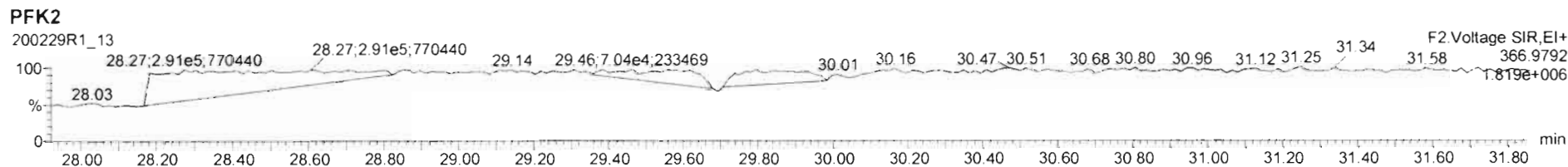
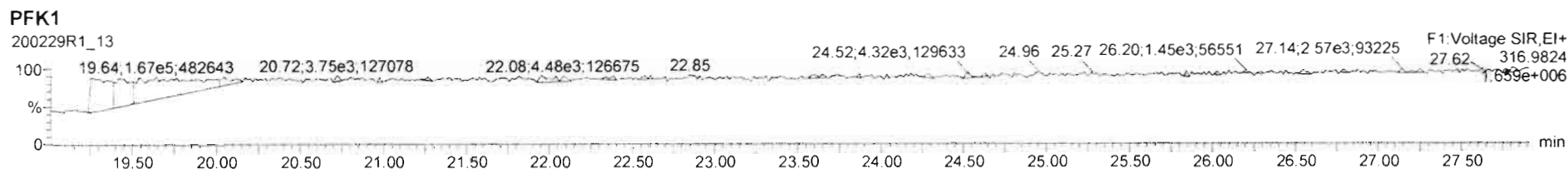
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_13, Date: 29-Feb-2020, Time: 20:43:33, ID: 1903737-09RE1 PDI-055SC-B-00-02-191015 18.7, Description: PDI-055SC-B-00-02-191015



Dataset: U:\VG12.PRO\Results\200229R1\200229R1-14B.qld

Last Altered: Tuesday, March 17, 2020 09:35:44 Pacific Daylight Time

Printed: Tuesday, March 17, 2020 09:38:25 Pacific Daylight Time

GRB 3/17/2020

CT 03/17/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

* see dilution

Name: 200229R1_14, Date: 29-Feb-2020, Time: 21:30:57, ID: 1903737-10RE1 PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	8.64e4	2.24e6	0.799	NO	10.02	25.80	25.78	1.00	1.00	NO	7.7823		0.077	7.7823
2	2 1,2,3,7,8-PeCDD	4.92e4	1.86e6	0.620	NO	10.02	30.87	30.86	1.00	1.00	NO	5.4134		0.131	5.4134
3	3 1,2,3,4,7,8-HxCDD	2.95e4	1.38e6	1.180	NO	10.02	34.24	34.24	1.00	1.00	NO	3.9891		0.273	3.9891
4	4 1,2,3,6,7,8-HxCDD	1.85e5	1.71e6	1.221	NO	10.02	34.33	34.35	1.00	1.00	NO	23.377		0.284	23.377
5	5 1,2,3,7,8,9-HxCDD	7.14e4	1.56e6	1.337	NO	10.02	34.64	34.63	1.00	1.00	NO	9.9710		0.322	9.9710
6	6 1,2,3,4,6,7,8-HpCDD	4.39e6	1.24e6	1.020	NO	10.02	38.13	38.14	1.00	1.00	NO	762.94		1.366	762.94
7	7 OCDD	3.37e7	1.89e6	0.883	NO	10.02	41.24	41.25	1.00	1.00	NO	7293.3	Y	1.309	7293.3
8	8 2,3,7,8-TCDF	3.20e6	2.67e6	0.738	NO	10.02	24.85	24.85	1.00	1.00	NO	297.64	(290)	0.164	297.64
9	9 1,2,3,7,8-PeCDF	3.21e6	2.39e6	1.537	NO	10.02	29.57	29.58	1.00	1.00	NO	295.10		0.597	295.10
10	10 2,3,4,7,8-PeCDF	1.21e6	2.37e6	1.526	NO	10.02	30.55	30.56	1.00	1.00	NO	107.05		0.433	107.05
11	11 1,2,3,4,7,8-HxCDF	4.05e6	1.79e6	1.210	NO	10.02	33.37	33.39	1.00	1.00	NO	522.32		0.361	522.32
12	12 1,2,3,6,7,8-HxCDF	1.25e6	2.00e6	1.227	NO	10.02	33.50	33.51	1.00	1.00	NO	148.73		0.369	148.73
13	13 2,3,4,6,7,8-HxCDF	2.85e5	1.71e6	1.201	NO	10.02	34.10	34.07	1.00	1.00	NO	37.144		0.427	37.144
14	14 1,2,3,7,8,9-HxCDF	2.77e5	1.58e6	1.167	NO	10.02	34.95	35.00	1.00	1.00	NO	40.720		0.566	40.720
15	15 1,2,3,4,6,7,8-HpCDF	1.71e6	1.33e6	1.008	NO	10.02	36.73	36.70	1.00	1.00	NO	301.07		0.765	301.07
16	16 1,2,3,4,7,8,9-HpCDF	4.95e5	9.98e5	1.001	NO	10.02	38.76	38.77	1.00	1.00	NO	101.02		0.938	101.02
17	17 OCDF	2.71e6	2.21e6	0.884	NO	10.02	41.42	41.43	1.00	1.00	NO	607.37		0.475	607.37
18	18 13C-2,3,7,8-TCDD	2.24e6	2.12e6	0.775	NO	10.02	25.74	25.76	1.03	1.03	NO	175.96	88.1	0.155	
19	19 13C-1,2,3,7,8-PeCDD	1.86e6	2.12e6	0.631	NO	10.02	30.88	30.85	1.23	1.23	NO	181.39	90.9	0.172	
20	20 13C-1,2,3,4,7,8-HxCDD	1.38e6	1.95e6	1.268	NO	10.02	34.24	34.23	1.01	1.01	NO	161.70	81.0	0.249	
21	21 13C-1,2,3,6,7,8-HxCDD	1.71e6	1.95e6	1.260	NO	10.02	34.34	34.33	1.02	1.02	NO	168.28	84.3	0.208	
22	22 13C-1,2,3,7,8,9-HxCDD	1.56e6	1.95e6	1.276	NO	10.02	34.64	34.60	1.03	1.02	NO	164.02	82.2	0.223	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.24e6	1.95e6	1.037	NO	10.02	38.22	38.12	1.13	1.13	NO	170.78	85.5	0.387	
24	24 13C-OCDD	1.89e6	1.95e6	0.891	NO	10.02	41.12	41.24	1.22	1.22	NO	275.11	68.9	0.437	
25	25 13C-2,3,7,8-TCDF	2.67e6	2.84e6	0.778	NO	10.02	24.92	24.82	0.99	0.99	NO	176.37	88.4	0.229	
26	26 13C-1,2,3,7,8-PeCDF	2.39e6	2.84e6	1.577	NO	10.02	29.51	29.55	1.18	1.18	NO	167.90	84.1	0.493	
27	27 13C-2,3,4,7,8-PeCDF	2.37e6	2.84e6	1.594	NO	10.02	30.48	30.55	1.21	1.22	NO	173.31	86.8	0.513	
28	28 13C-1,2,3,4,7,8-HxCDF	1.79e6	1.95e6	0.509	NO	10.02	33.36	33.37	0.99	0.99	NO	175.42	87.9	0.363	
29	29 13C-1,2,3,6,7,8-HxCDF	2.00e6	1.95e6	0.512	NO	10.02	33.46	33.49	0.99	0.99	NO	172.43	86.4	0.320	
30	30 13C-2,3,4,6,7,8-HxCDF	1.71e6	1.95e6	0.538	NO	10.02	34.07	34.06	1.01	1.01	NO	164.32	82.3	0.357	

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-14B.qld

Last Altered: Tuesday, March 17, 2020 09:35:44 Pacific Daylight Time

Printed: Tuesday, March 17, 2020 09:38:25 Pacific Daylight Time

Name: 200229R1_14, Date: 29-Feb-2020, Time: 21:30:57, ID: 1903737-10RE1 PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

#	Name	Area	IS Area	RA	n/y	Wt./Vol	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	1.58e6	1.95e6	0.546	NO	10.02	34.98	34.95	1.04	1.04	NO	175.86	88.1	0.413	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.33e6	1.95e6	0.446	NO	10.02	36.74	36.69	1.09	1.09	NO	178.15	89.2	0.437	
33	33 13C-1,2,3,4,7,8,9-HpCDF	9.98e5	1.95e6	0.455	NO	10.02	38.76	38.76	1.15	1.15	NO	185.35	92.8	0.607	
34	34 13C-OCDF	2.21e6	1.95e6	0.884	NO	10.02	41.36	41.42	1.23	1.23	NO	287.94	72.1	0.389	
35	35 37Cl-2,3,7,8-TCDD	8.10e5	2.12e6			10.02	25.77	25.78	1.03	1.03	NO	64.728	81.1	0.062	
36	36 13C-1,2,3,4-TCDD	2.12e6	2.12e6	0.798	NO	10.02	25.11	25.09	1.00	1.00	NO	199.63	100.0	0.186	
37	37 13C-1,2,3,4-TCDF	2.84e6	2.84e6	0.789	NO	10.02	23.37	23.33	1.00	1.00	NO	199.63	100.0	0.244	
38	38 13C-1,2,3,4,6,9-HxCDF	1.95e6	1.95e6	0.507	NO	10.02	33.71	33.76	1.00	1.00	NO	199.63	100.0	0.381	
39	39 Total Tetra-Dioxins		2.24e6			10.02	24.62		0.00		NO	39.232		0.077	39.436
40	40 Total Penta-Dioxins		1.86e6			10.02	29.96		0.00		NO	40.345		0.131	40.345
41	41 Total Hexa-Dioxins		0.00e0			10.02	33.63		0.00		NO	266.34		0.306	266.34
42	42 Total Hepta-Dioxins		1.24e6			10.02	37.64		0.00		NO	1823.5		1.366	1823.5
43	43 Total Tetra-Furans		2.67e6			10.02	23.61		0.00		NO	965.91		0.164	1003.9
44	44 1st Func. Penta-Furans		0.00e0			10.02	27.09		0.00		NO	65.564		0.057	65.564
45	45 Total Penta-Furans		0.00e0			10.02	29.27		0.00		NO	869.01		0.526	869.01
46	46 Total Hexa-Furans		0.00e0			10.02	33.56		0.00		NO	1026.0		0.409	1027.9
47	47 Total Hepta-Furans		0.00e0			10.02	37.83		0.00		NO	816.23		0.900	816.23

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-14B.qld

Last Altered: Tuesday, March 17, 2020 09:35:44 Pacific Daylight Time

Printed: Tuesday, March 17, 2020 09:38:25 Pacific Daylight Time

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

Name: 200229R1_14, Date: 29-Feb-2020, Time: 21:30:57

Tetra-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	39 Total Tetra-Dioxins	21.63	0.801	NO	6.12e4	9.79e5	12.4	12.4
2	39 Total Tetra-Dioxins	22.04	0.773	NO	1.54e4	9.79e5	3.17	3.17
3	39 Total Tetra-Dioxins	22.55	0.793	NO	3.45e3	9.79e5	0.703	0.703
4	39 Total Tetra-Dioxins	23.50	0.687	NO	2.12e3	9.79e5	0.468	0.468
5	39 Total Tetra-Dioxins	23.77	0.768	NO	9.56e3	9.79e5	1.98	1.98
6	39 Total Tetra-Dioxins	24.00	0.786	NO	1.43e4	9.79e5	2.92	2.92
7	39 Total Tetra-Dioxins	24.22	0.724	NO	2.70e3	9.79e5	0.579	0.579
8	39 Total Tetra-Dioxins	24.49	0.838	NO	1.68e3	9.79e5	0.331	0.331
9	39 Total Tetra-Dioxins	24.69	0.814	NO	2.55e3	9.79e5	0.511	0.511
10	39 Total Tetra-Dioxins	25.08	0.856	NO	2.26e3	9.79e5	0.440	0.440
11	39 Total Tetra-Dioxins	25.23	0.705	NO	1.06e3	9.79e5	0.230	0.230
12	39 Total Tetra-Dioxins	25.51	0.802	NO	2.88e4	9.79e5	5.84	5.84
13	1 2,3,7,8-TCDD	25.78	0.799	NO	3.84e4	9.79e5	7.78	7.78
14	39 Total Tetra-Dioxins	26.12	0.696	NO	5.23e3	9.79e5	1.15	1.15
15	39 Total Tetra-Dioxins	26.24	0.792	NO	9.80e2	9.79e5	0.200	0.200
16	39 Total Tetra-Dioxins	26.77	0.774	NO	1.25e3	9.79e5	0.258	0.258
17	39 Total Tetra-Dioxins	23.83	0.869	NO	1.44e3	9.79e5	0.279	0.279
18	39 Total Tetra-Dioxins	25.62	0.829	NO	1.02e3	9.79e5	0.000	0.204

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Penta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	40 Total Penta-Dioxins	28.62	0.637	NO	4.67e4	7.22e5	13.2	13.2
2	40 Total Penta-Dioxins	29.11	0.627	NO	7.40e3	7.22e5	2.11	2.11
3	40 Total Penta-Dioxins	29.65	0.679	NO	2.67e4	7.22e5	7.28	7.28
4	40 Total Penta-Dioxins	29.80	0.600	NO	1.03e4	7.22e5	3.02	3.02
5	40 Total Penta-Dioxins	29.89	0.618	NO	8.22e3	7.22e5	2.37	2.37
6	40 Total Penta-Dioxins	30.12	0.659	NO	1.15e4	7.22e5	3.18	3.18
7	40 Total Penta-Dioxins	30.44	0.636	NO	5.82e3	7.22e5	1.65	1.65
8	2 1,2,3,7,8-PeCDD	30.86	0.620	NO	1.88e4	7.22e5	5.41	5.41
9	40 Total Penta-Dioxins	30.94	0.653	NO	4.42e3	7.22e5	1.23	1.23
10	40 Total Penta-Dioxins	31.26	0.688	NO	3.23e3	7.22e5	0.872	0.872

Hexa-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	41 Total Hexa-Dioxins	32.77	1.245	NO	4.31e5	8.66e5	109	109
2	41 Total Hexa-Dioxins	33.33	1.226	NO	5.75e4	8.66e5	14.6	14.6
3	41 Total Hexa-Dioxins	33.57	1.221	NO	3.72e5	8.66e5	94.7	94.7
4	41 Total Hexa-Dioxins	33.68	1.175	NO	2.78e4	8.66e5	7.19	7.19
5	3 1,2,3,4,7,8-HxCDD	34.24	1.180	NO	1.59e4	7.70e5	3.99	3.99
6	4 1,2,3,6,7,8-HxCDD	34.35	1.221	NO	1.02e5	9.56e5	23.4	23.4
7	41 Total Hexa-Dioxins	34.53	1.227	NO	1.50e4	8.66e5	3.82	3.82
8	5 1,2,3,7,8,9-HxCDD	34.63	1.337	NO	4.09e4	8.73e5	9.97	9.97

Hepta-Dioxins

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	42 Total Hepta-Dioxins	37.10	1.029	NO	3.09e6	6.33e5	1060	1060
2	6 1,2,3,4,6,7,8-HpCDD	38.14	1.020	NO	2.22e6	6.33e5	763	763

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Tetra-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	43 Total Tetra-Furans	19.58	0.788	NO	1.48e4	1.17e6	3.13	3.13
2	43 Total Tetra-Furans	20.11	0.739	NO	2.48e4	1.17e6	5.43	5.43
3	43 Total Tetra-Furans	20.68	0.751	NO	1.48e5	1.17e6	32.1	32.1
4	43 Total Tetra-Furans	21.22	0.770	NO	5.75e4	1.17e6	12.3	12.3
5	43 Total Tetra-Furans	21.60	0.744	NO	3.30e5	1.17e6	72.0	72.0
6	43 Total Tetra-Furans	22.07	0.752	NO	1.00e5	1.17e6	21.7	21.7
7	43 Total Tetra-Furans	22.25	0.756	NO	1.52e4	1.17e6	3.29	3.29
8	43 Total Tetra-Furans	22.43	0.760	NO	6.35e4	1.17e6	13.7	13.7
9	43 Total Tetra-Furans	22.89	0.726	NO	9.90e3	1.17e6	2.19	2.19
10	43 Total Tetra-Furans	23.03	0.791	NO	1.08e4	1.17e6	2.28	2.28
11	43 Total Tetra-Furans	23.33	0.765	NO	5.10e5	1.17e6	110	110
12	43 Total Tetra-Furans	23.86	0.759	NO	1.16e6	1.17e6	251	251
13	43 Total Tetra-Furans	24.16	0.783	NO	5.30e4	1.17e6	11.2	11.2
14	43 Total Tetra-Furans	24.39	0.794	NO	4.02e4	1.17e6	8.45	8.45
15	43 Total Tetra-Furans	24.73	0.874	NO	3.56e5	1.17e6	71.0	71.0
16	8 2,3,7,8-TCDF	24.85	0.738	NO	1.36e6	1.17e6	298	298
17	43 Total Tetra-Furans	25.24	0.747	NO	8.71e4	1.17e6	19.0	19.0
18	43 Total Tetra-Furans	25.50	0.781	NO	1.76e4	1.17e6	3.74	3.74
19	43 Total Tetra-Furans	26.32	1.718	YES	4.53e3	1.17e6	0.000	0.434
20	43 Total Tetra-Furans	26.45	0.763	NO	3.72e3	1.17e6	0.800	0.800
21	43 Total Tetra-Furans	26.63	0.979	YES	6.39e3	1.17e6	0.000	1.08
22	43 Total Tetra-Furans	26.92	0.899	YES	1.84e5	1.17e6	0.000	33.6
23	43 Total Tetra-Furans	21.16	0.757	NO	1.73e4	1.17e6	3.73	3.73
24	43 Total Tetra-Furans	23.24	0.753	NO	6.06e4	1.17e6	13.1	13.1
25	43 Total Tetra-Furans	24.61	0.777	NO	1.34e4	1.17e6	0.000	2.85
26	43 Total Tetra-Furans	23.97	0.822	NO	1.76e4	1.17e6	3.63	3.63
27	43 Total Tetra-Furans	24.97	0.799	NO	2.40e4	1.17e6	5.03	5.03

Penta-Furans function 1

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	44 1st Func. Penta-Furans	26.93	1.543	NO	4.31e5	1.46e6	65.6	65.6

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Penta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	45 Total Penta-Furans	28.41	1.590	NO	3.45e4	1.46e6	5.18	5.18
2	45 Total Penta-Furans	28.56	1.530	NO	1.18e6	1.46e6	180	180
3	45 Total Penta-Furans	29.16	1.537	NO	3.48e5	1.46e6	53.0	53.0
4	45 Total Penta-Furans	29.39	1.528	NO	2.58e5	1.46e6	39.5	39.5
5	9 1,2,3,7,8-PeCDF	29.58	1.537	NO	1.94e6	1.46e6	295	295
6	45 Total Penta-Furans	29.86	1.516	NO	6.60e5	1.46e6	101	101
7	45 Total Penta-Furans	30.33	1.403	NO	3.97e3	1.46e6	0.627	0.627
8	45 Total Penta-Furans	30.45	1.515	NO	1.58e4	1.46e6	2.42	2.42
9	10 2,3,4,7,8-PeCDF	30.56	1.526	NO	7.31e5	1.46e6	107	107
10	45 Total Penta-Furans	31.49	1.544	NO	5.91e4	1.46e6	8.99	8.99
11	45 Total Penta-Furans	28.62	1.673	NO	5.38e4	1.46e6	7.93	7.93
12	45 Total Penta-Furans	29.22	1.534	NO	2.47e4	1.46e6	3.77	3.77
13	45 Total Penta-Furans	30.58	1.567	NO	4.24e5	1.46e6	64.2	64.2

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Hexa-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	46 Total Hexa-Furans	32.22	1.222	NO	1.08e5	6.09e5	24.6	24.6
2	46 Total Hexa-Furans	32.40	1.199	NO	4.05e5	6.09e5	93.1	93.1
3	46 Total Hexa-Furans	32.75	1.163	NO	8.94e3	6.09e5	2.09	2.09
4	46 Total Hexa-Furans	32.93	1.213	NO	4.64e5	6.09e5	106	106
5	46 Total Hexa-Furans	33.28	1.118	NO	2.11e4	6.09e5	5.01	5.01
6	11 1,2,3,4,7,8-HxCDF	33.39	1.210	NO	2.22e6	6.05e5	522	522
7	12 1,2,3,6,7,8-HxCDF	33.51	1.227	NO	6.90e5	6.77e5	149	149
8	46 Total Hexa-Furans	33.76	1.350	NO	3.11e4	6.09e5	6.81	6.81
9	46 Total Hexa-Furans	33.88	1.608	YES	1.11e4	6.09e5	0.000	1.94
10	46 Total Hexa-Furans	33.97	1.270	NO	5.59e3	6.09e5	1.26	1.26
11	13 2,3,4,6,7,8-HxCDF	34.07	1.201	NO	1.56e5	5.97e5	37.1	37.1
12	14 1,2,3,7,8,9-HxCDF	35.00	1.167	NO	1.49e5	5.58e5	40.7	40.7
13	46 Total Hexa-Furans	33.01	1.205	NO	1.76e4	6.09e5	4.04	4.04
14	46 Total Hexa-Furans	32.47	1.183	NO	1.71e4	6.09e5	3.96	3.96
15	46 Total Hexa-Furans	33.60	1.250	NO	3.82e4	6.09e5	8.64	8.64
16	46 Total Hexa-Furans	35.01	1.308	NO	9.57e4	6.09e5	21.2	21.2

Hepta-Furans

	# Name	RT	RA	y/n	Area	IS Area	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	36.70	1.008	NO	8.58e5	4.11e5	301	301
2	47 Total Hepta-Furans	37.10	1.021	NO	1.48e4	3.61e5	5.89	5.89
3	47 Total Hepta-Furans	37.30	1.011	NO	1.02e6	3.61e5	408	408
4	16 1,2,3,4,7,8,9-HpCDF	38.77	1.001	NO	2.47e5	3.12e5	101	101

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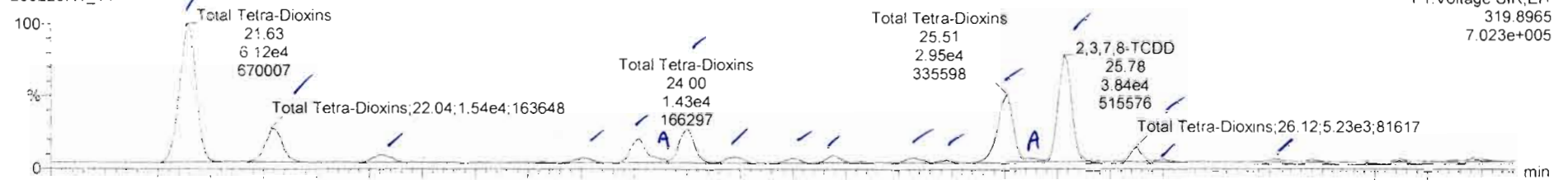
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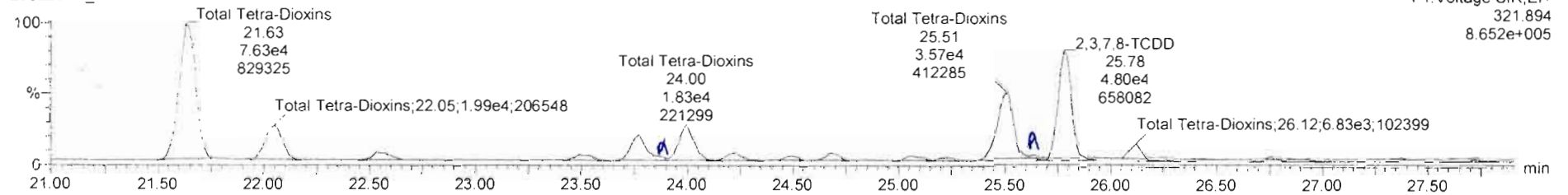
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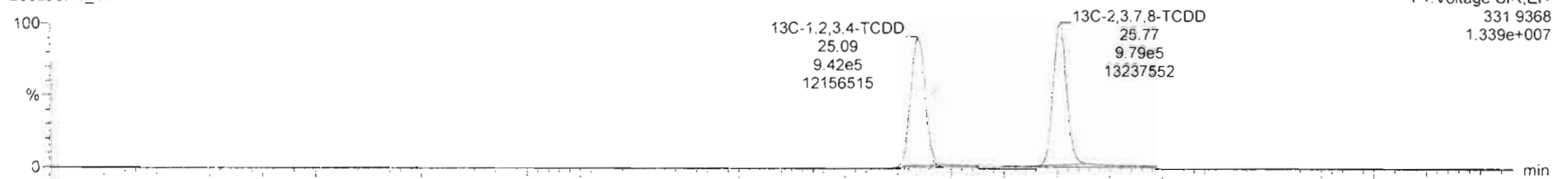


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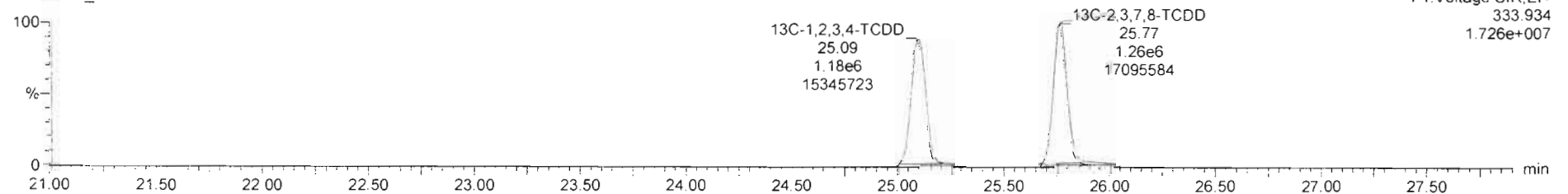


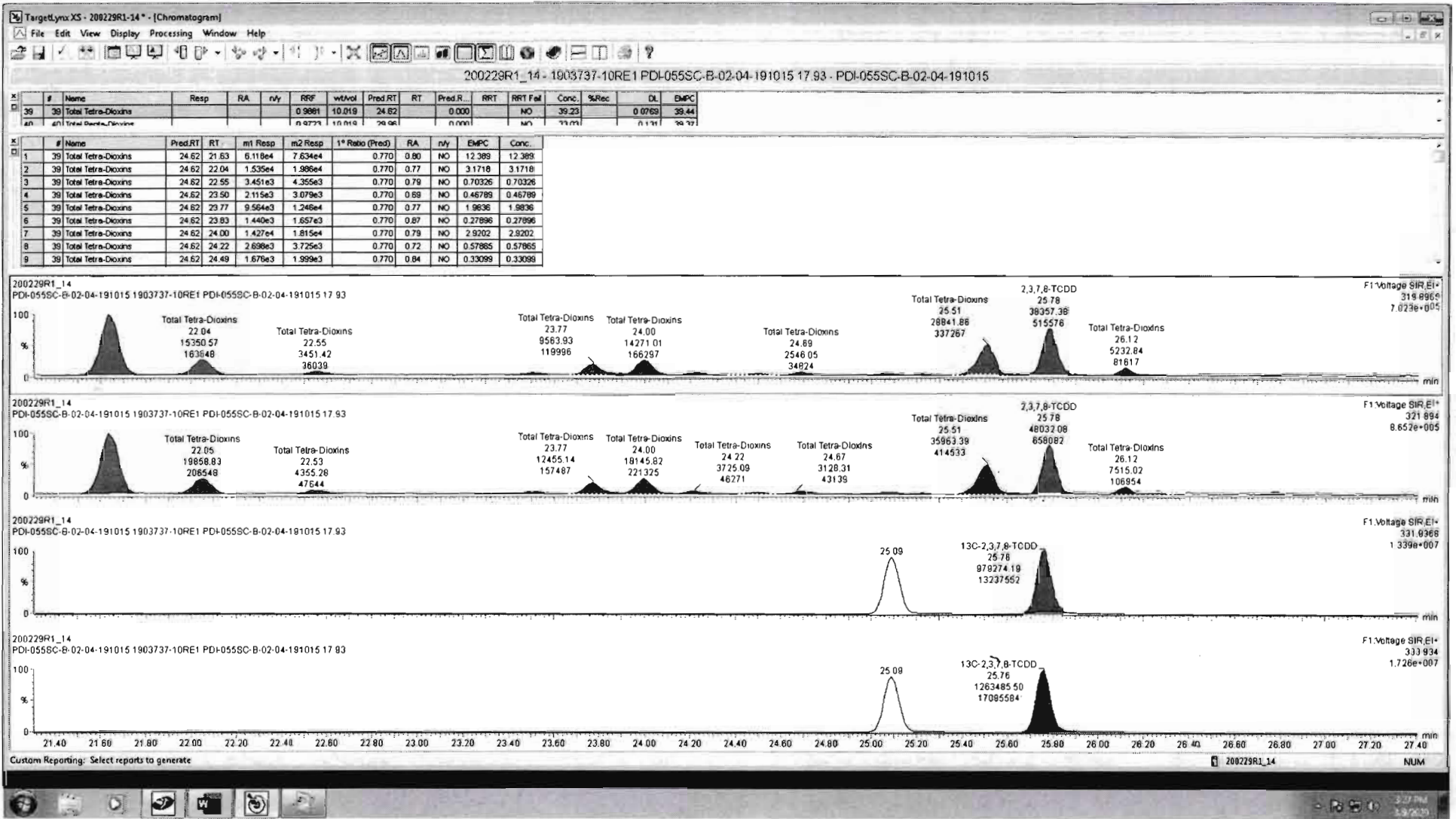
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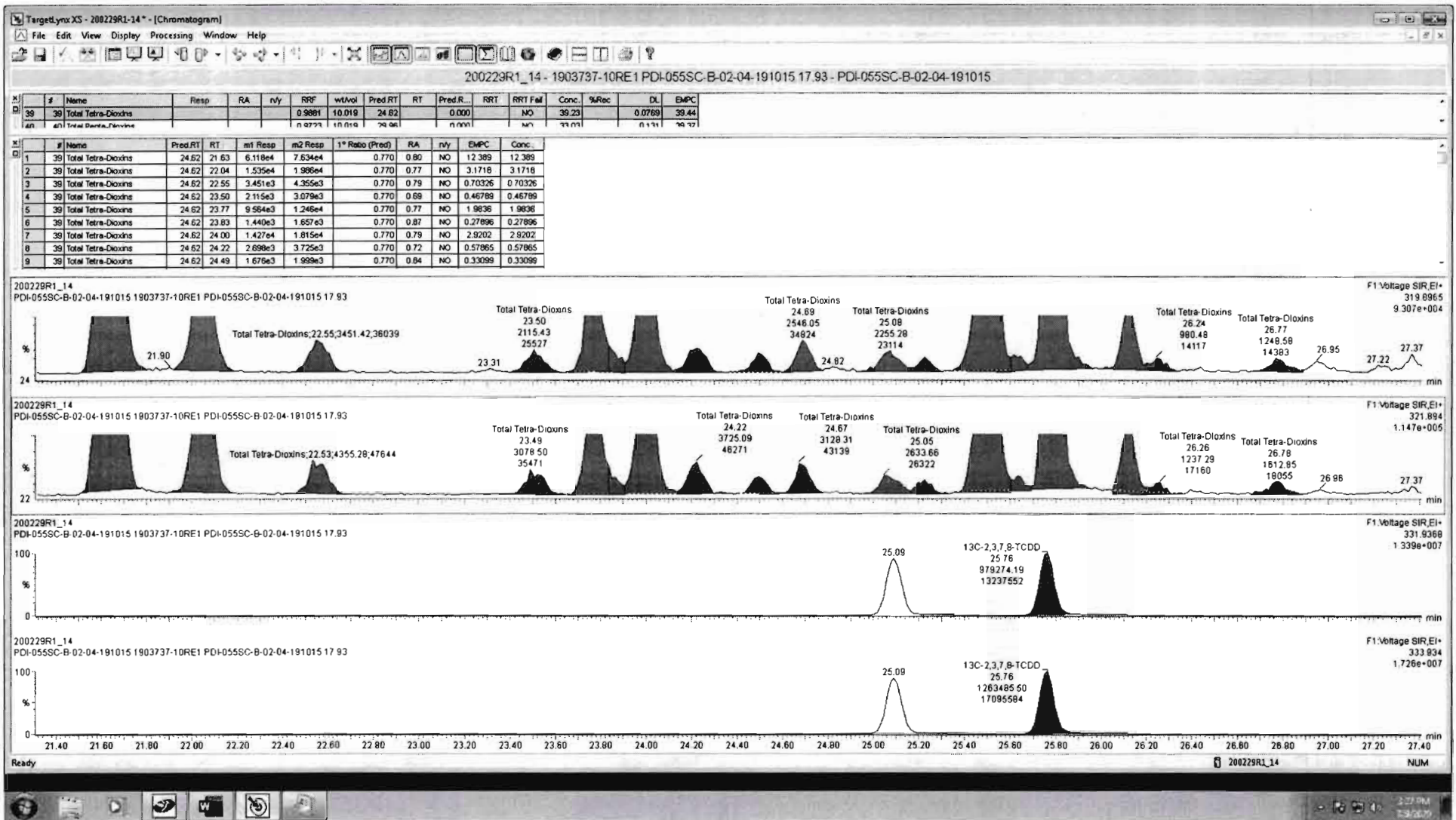
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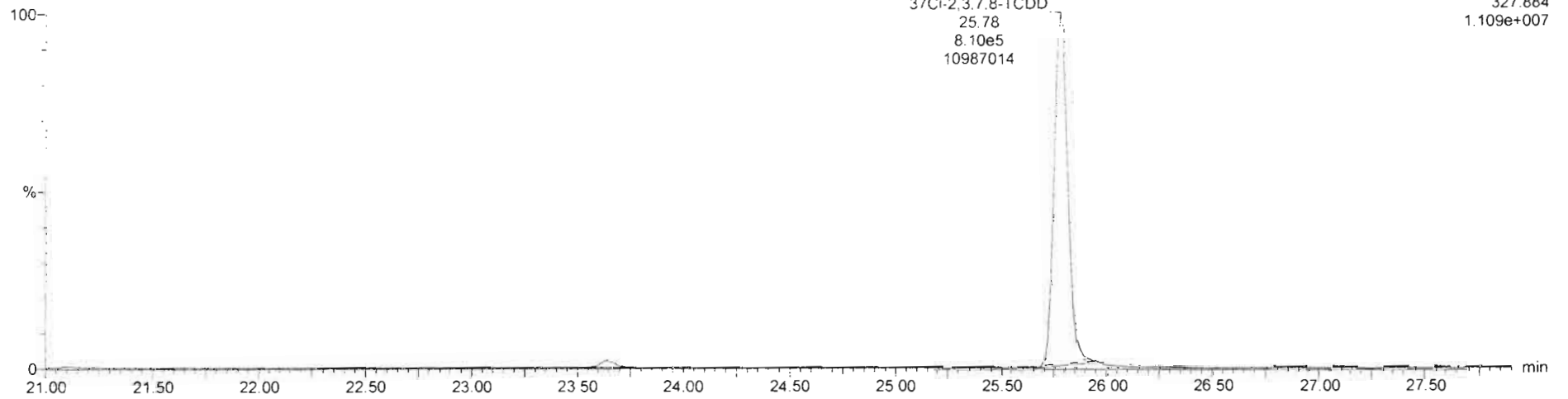
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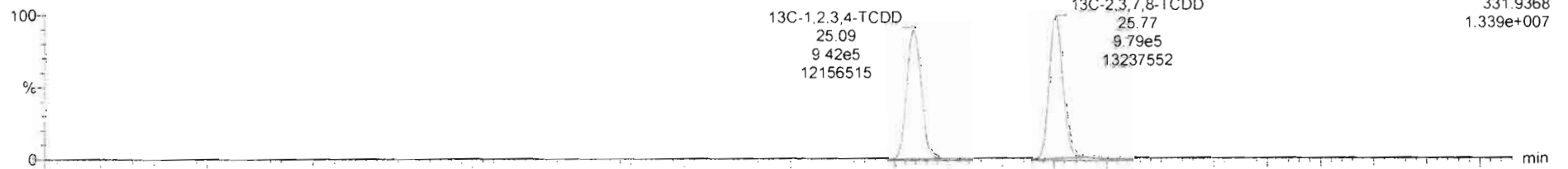
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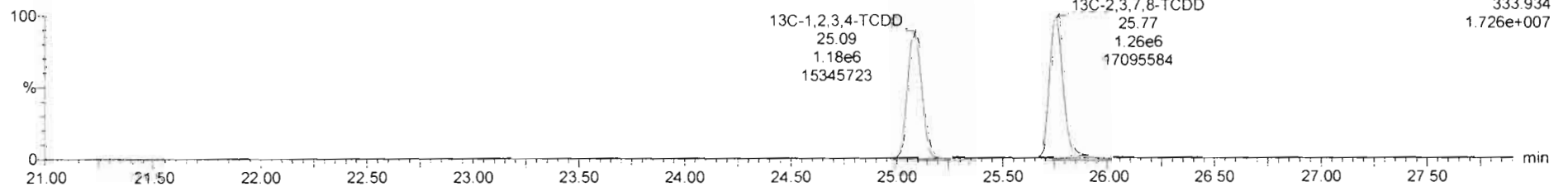
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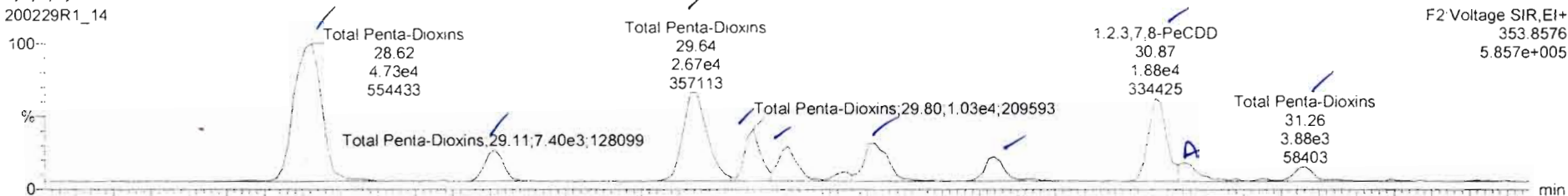
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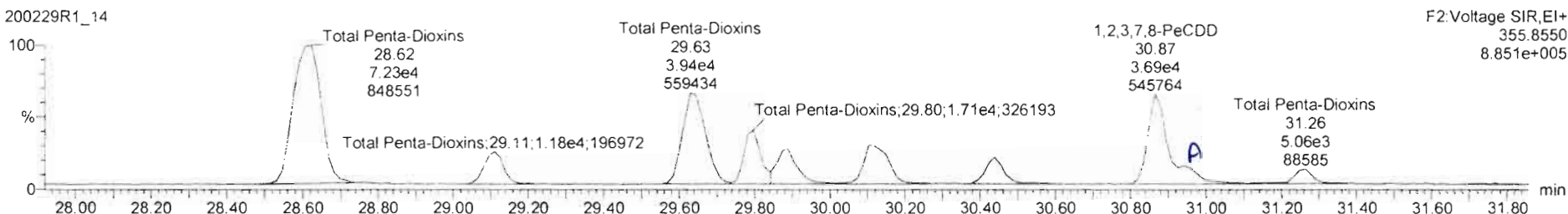
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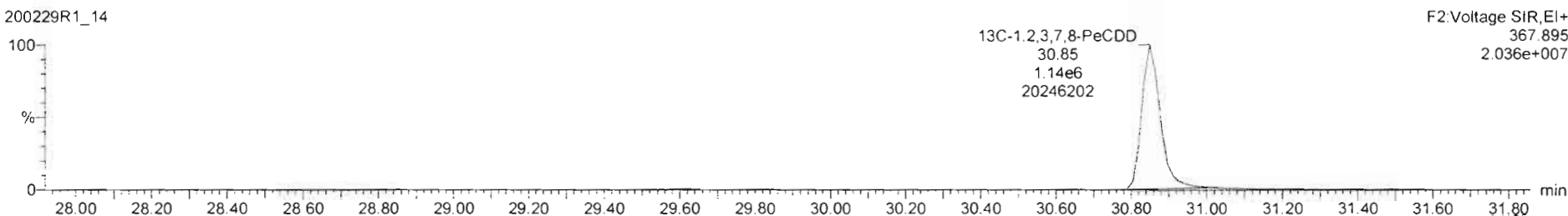


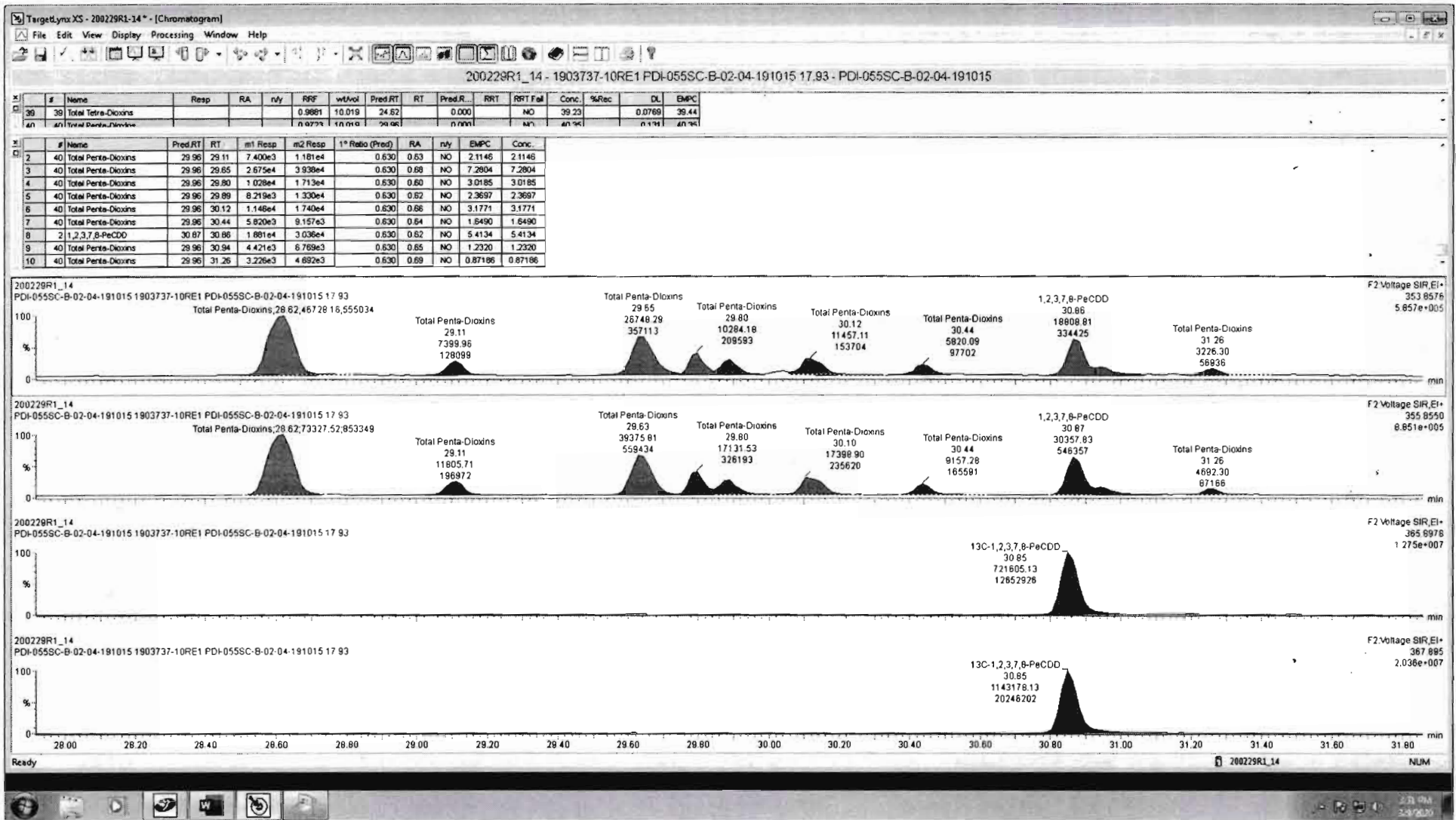
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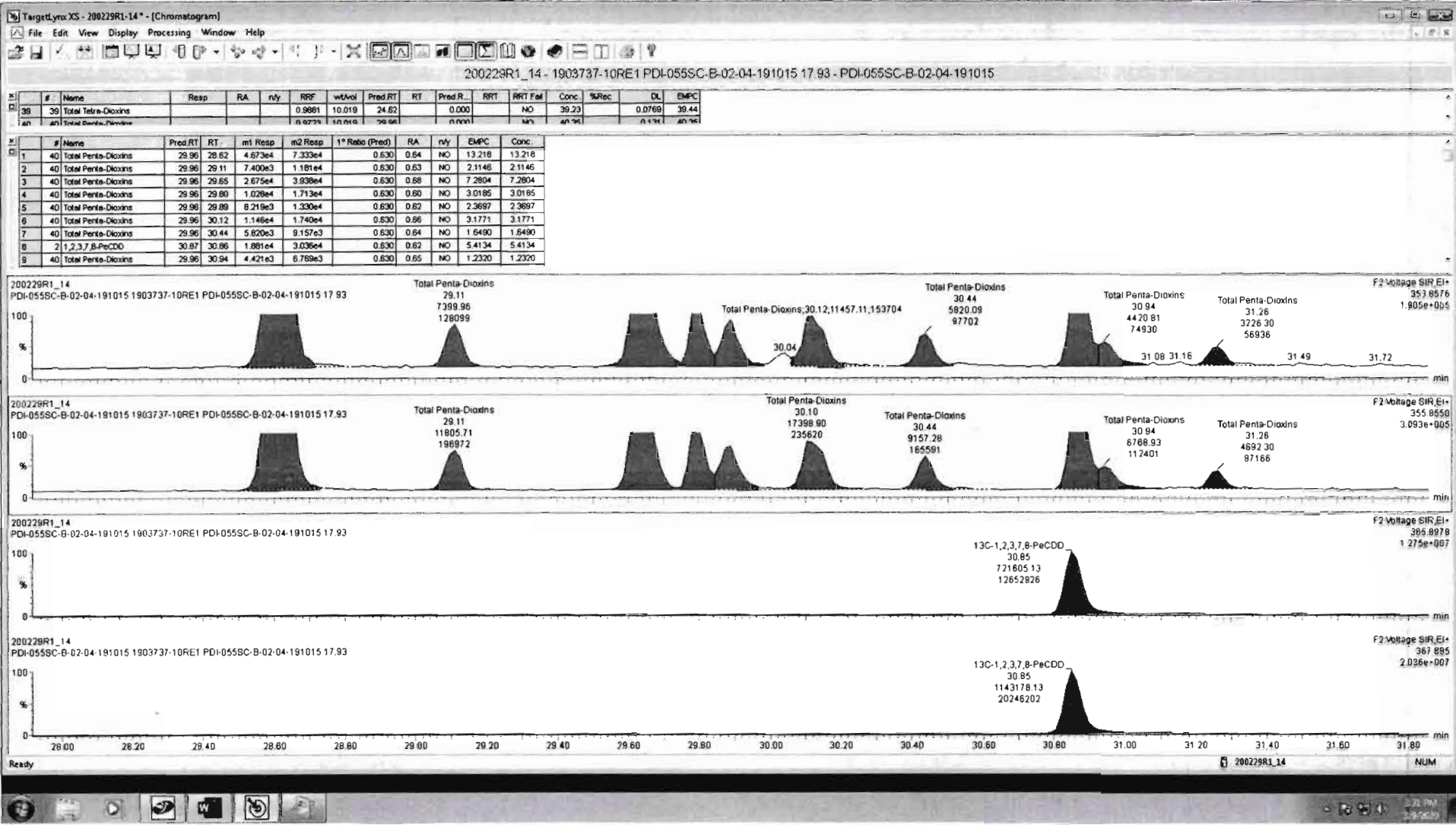
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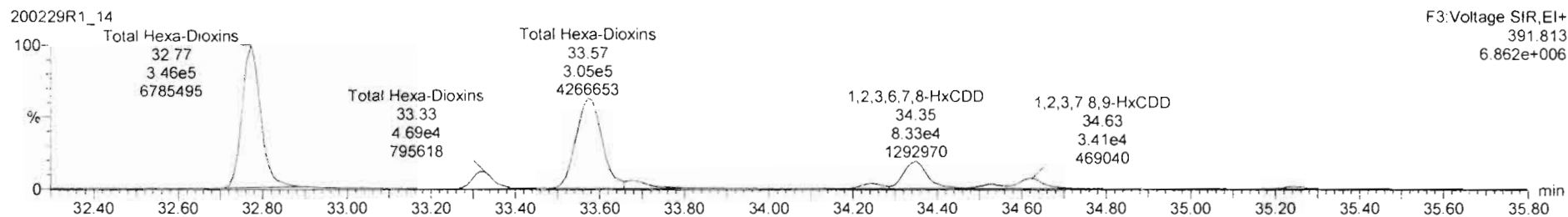
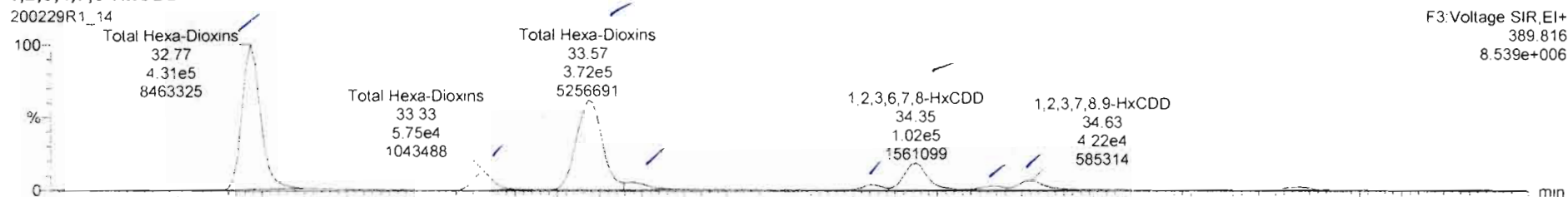
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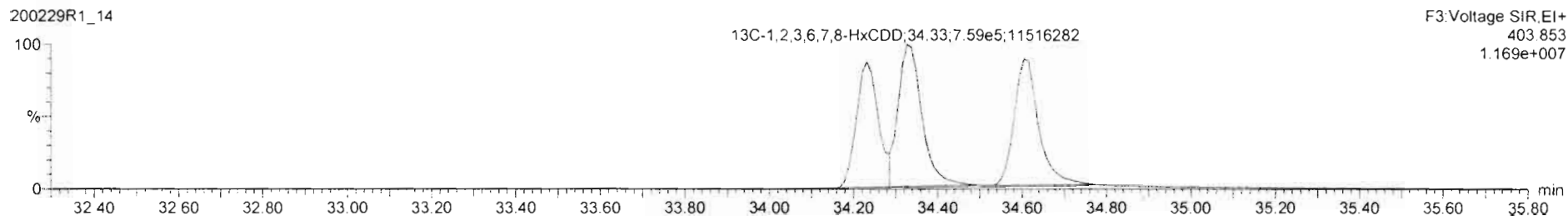
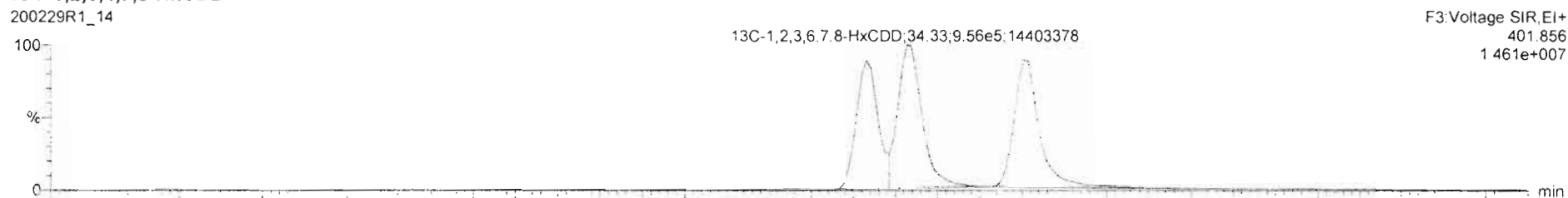
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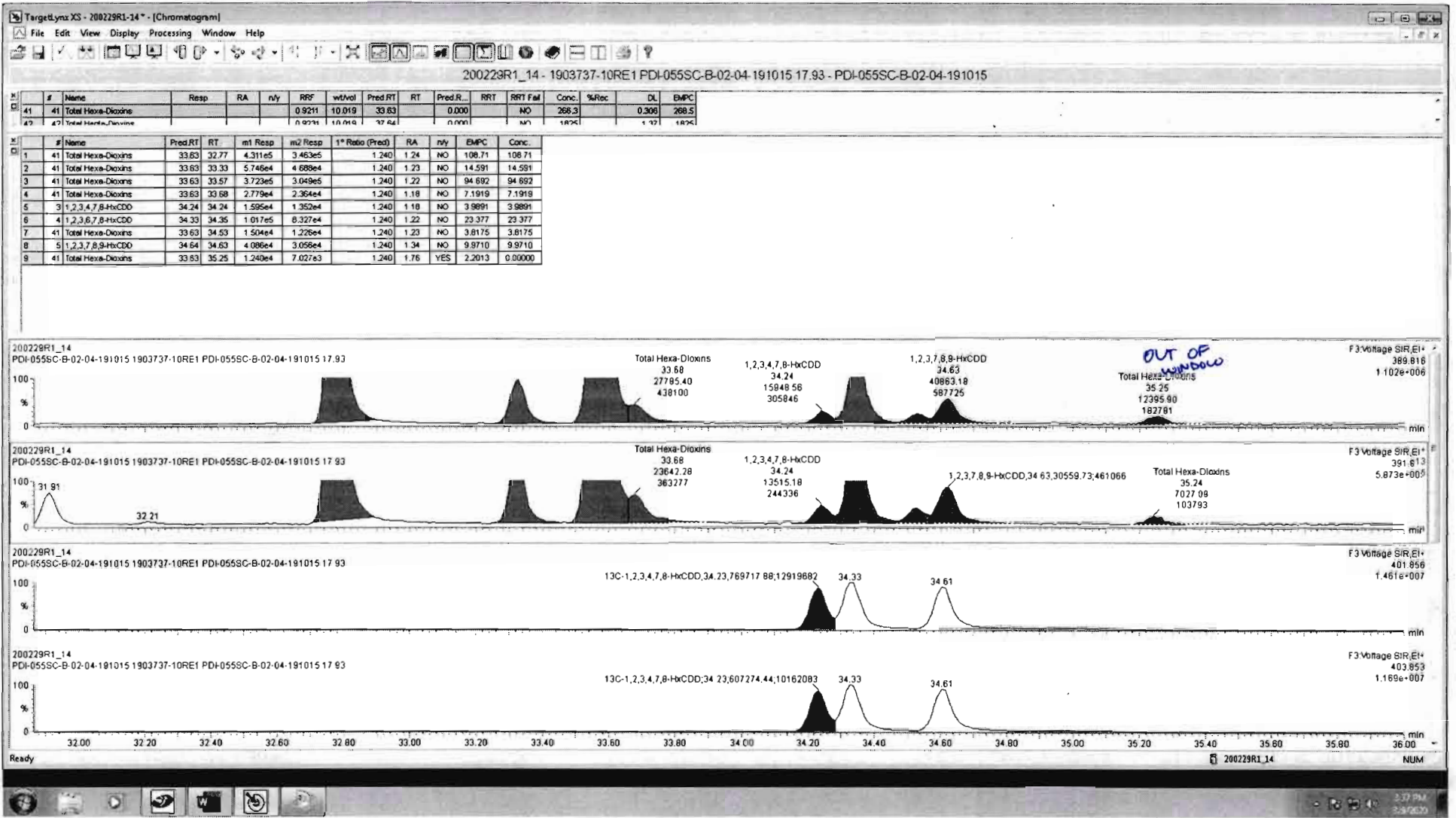
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13C-1,2,3,4,7,8-HxCDD





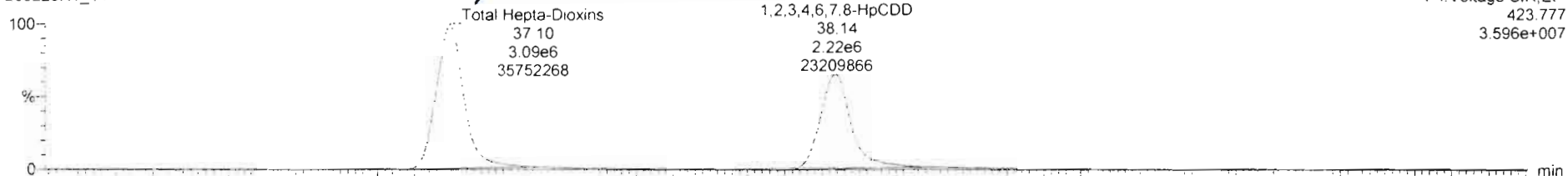
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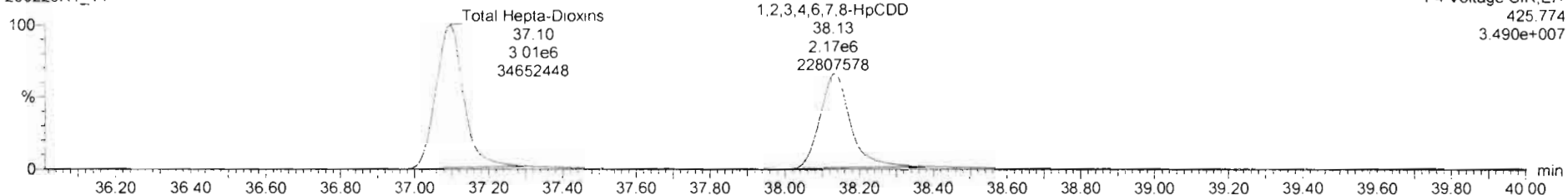
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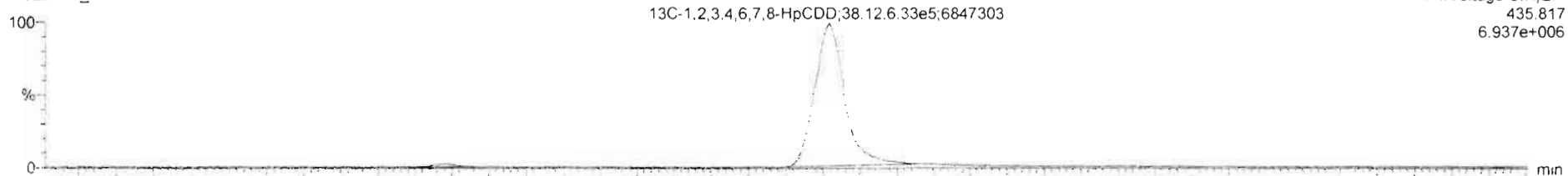


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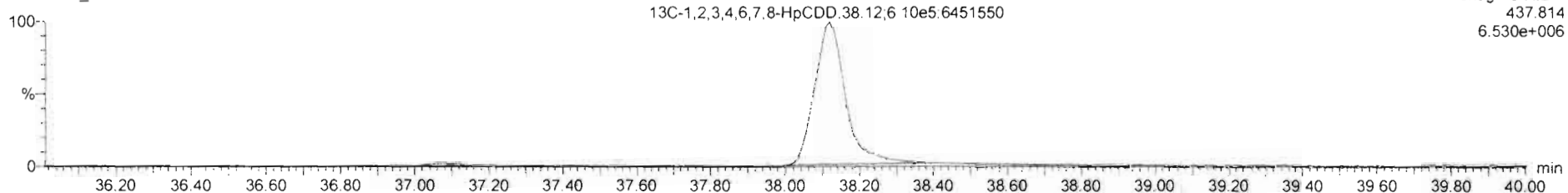


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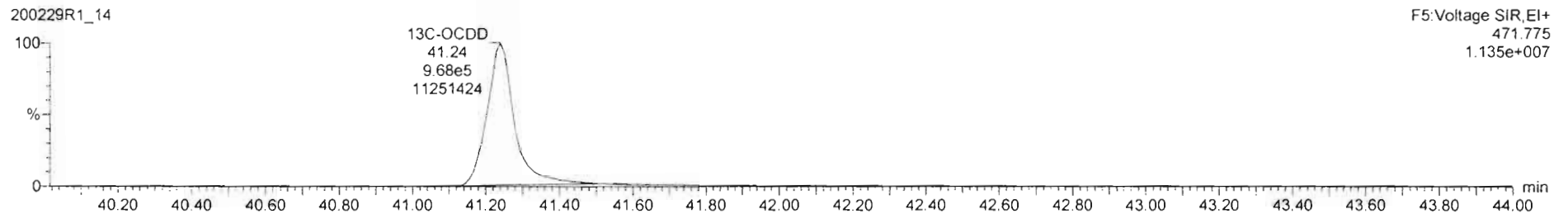
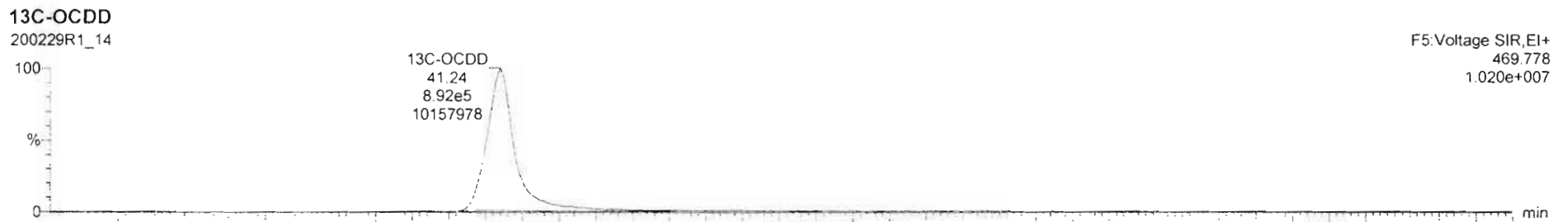
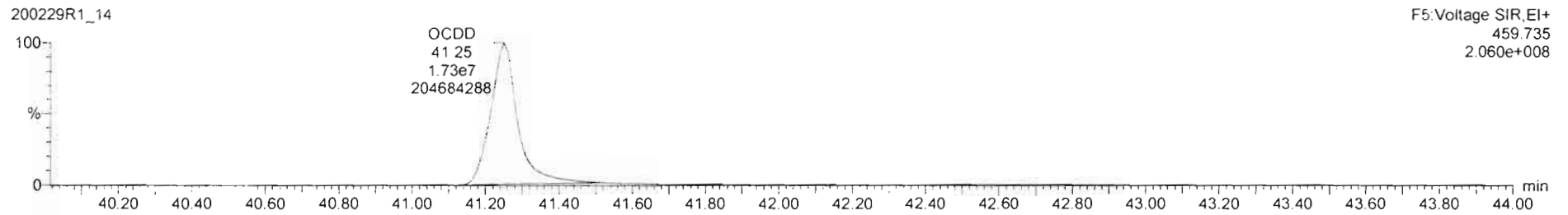
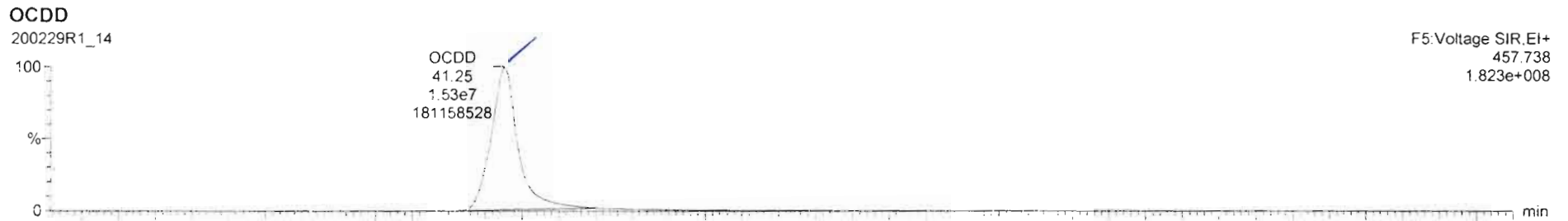


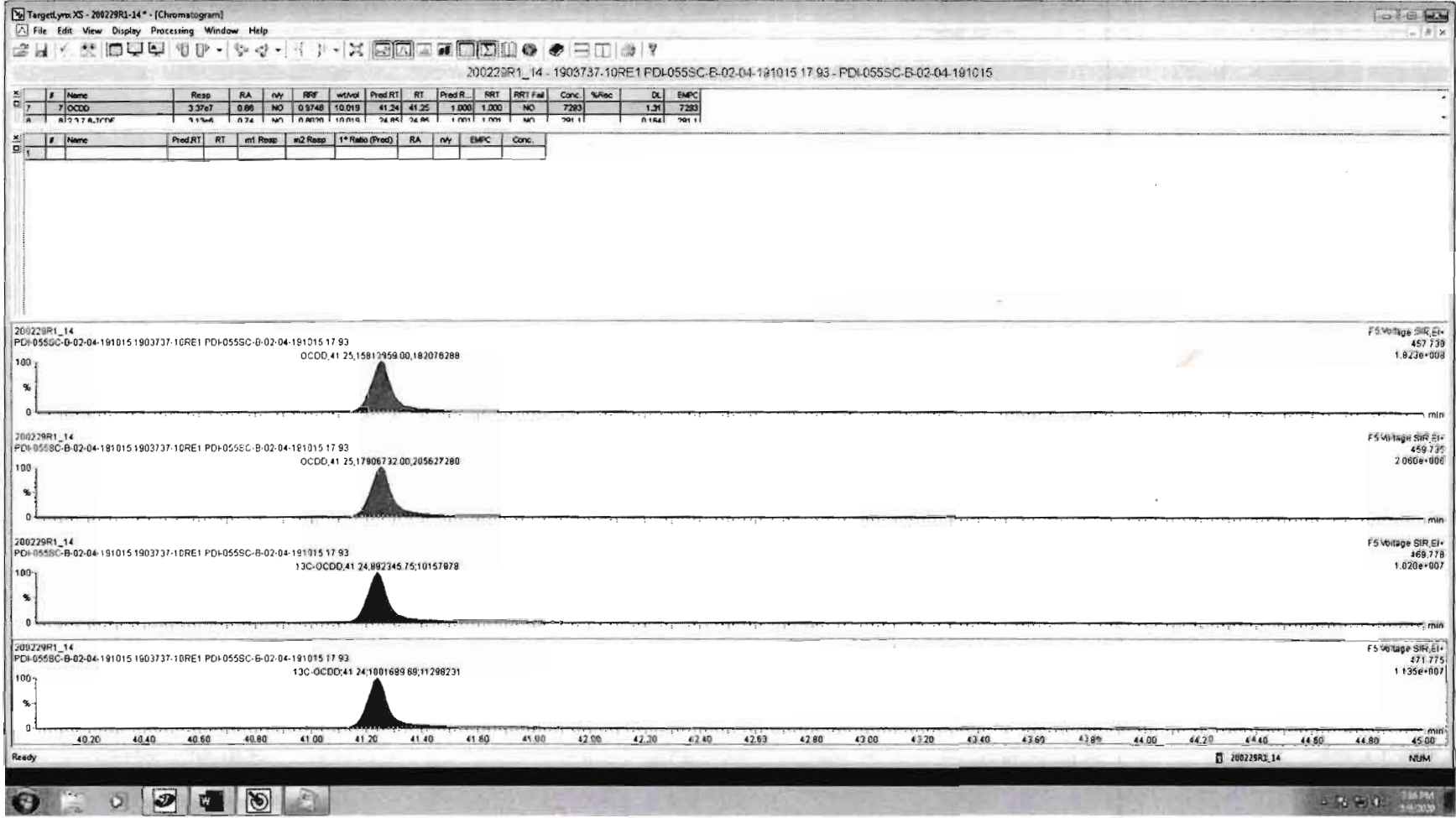
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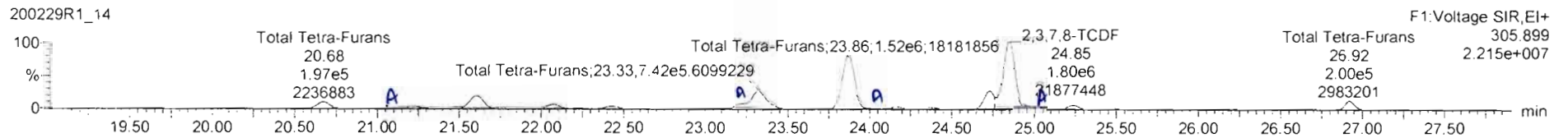
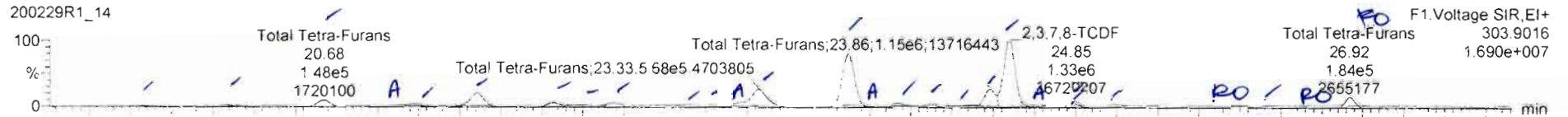


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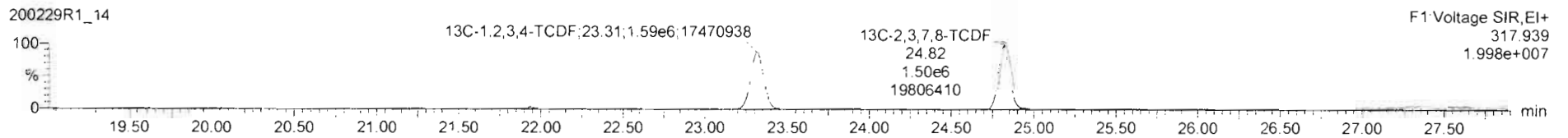
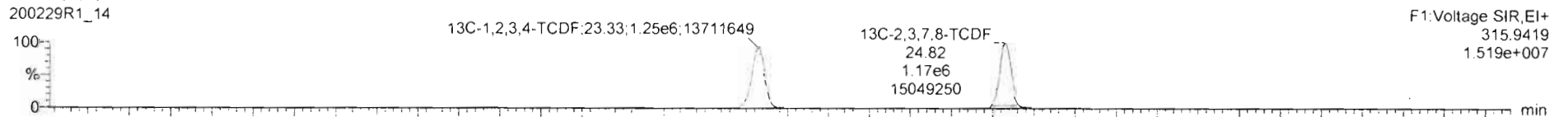
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_14, Date: 29-Feb-2020, Time: 21:30:57, ID: 1903737-10RE1 PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

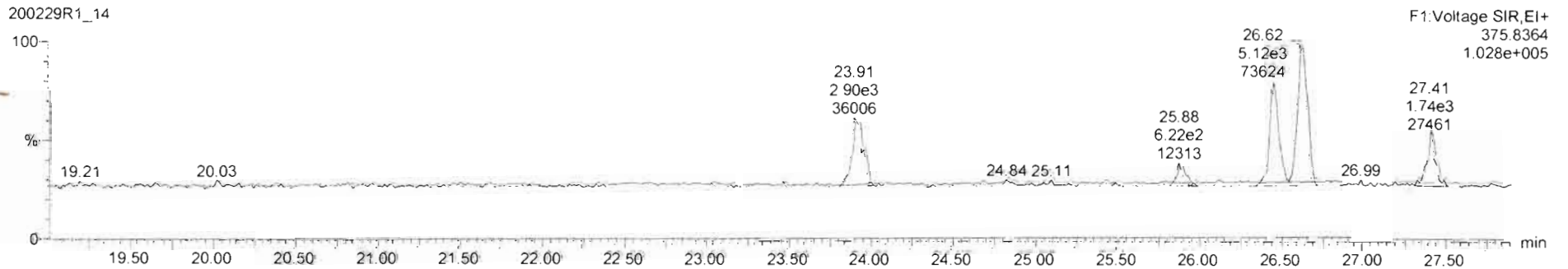
2,3,7,8-TCDF

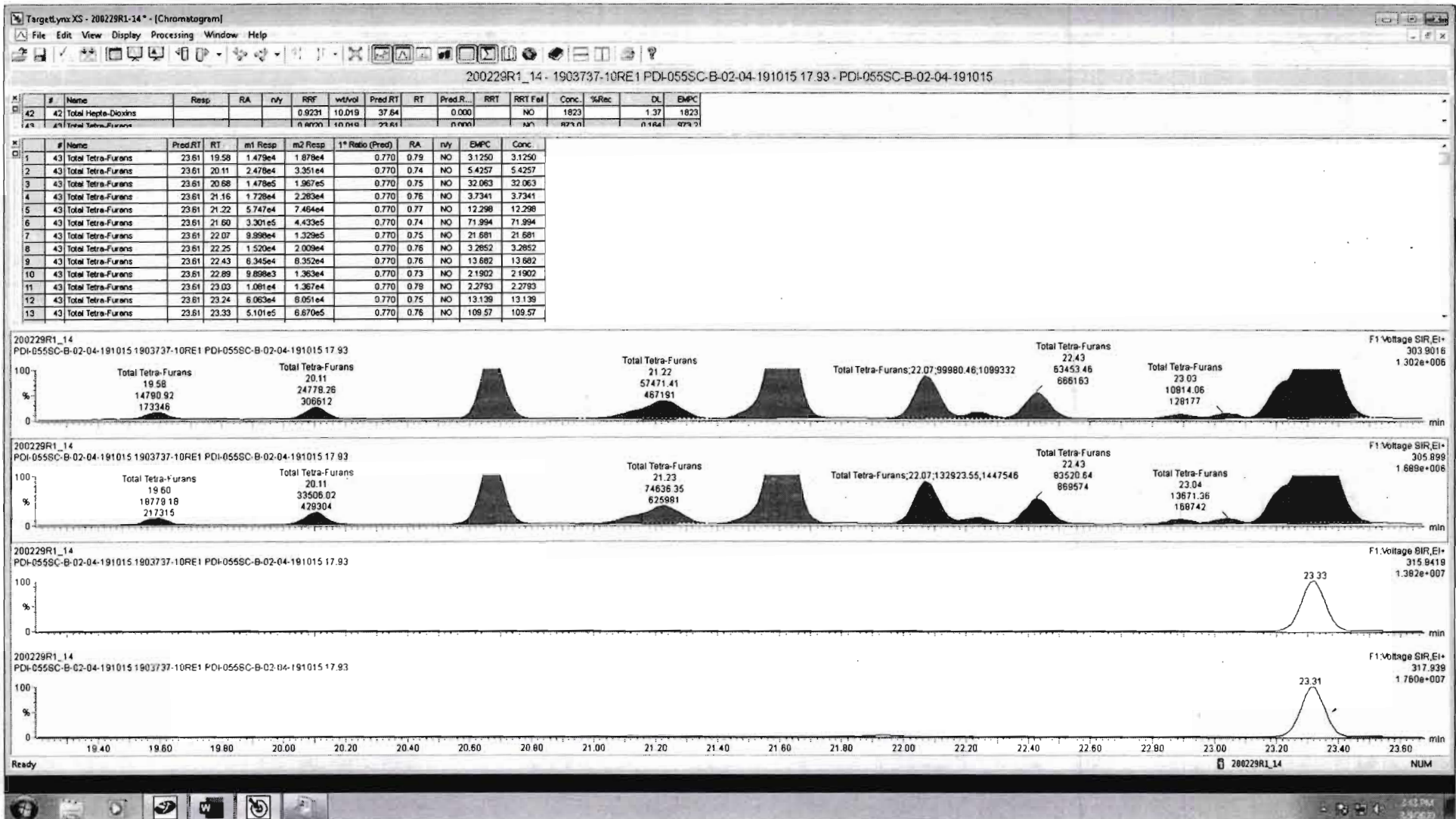


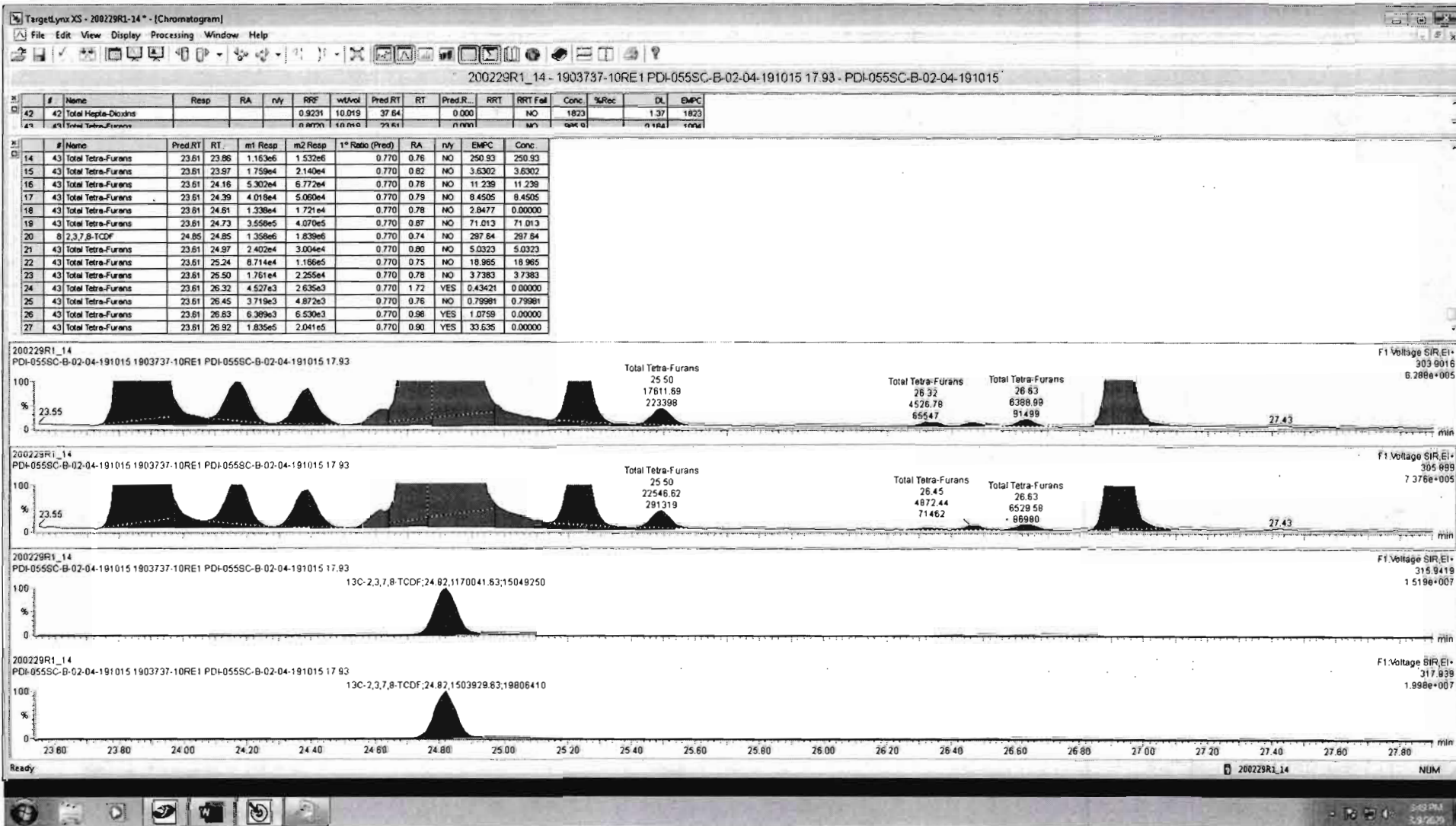
13C-2,3,7,8-TCDF



DPE1







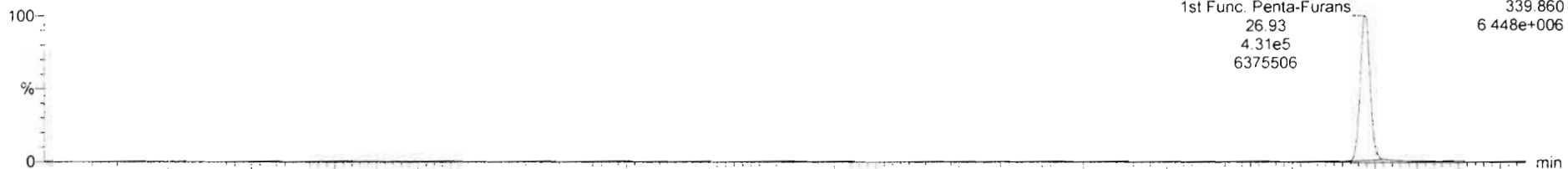
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

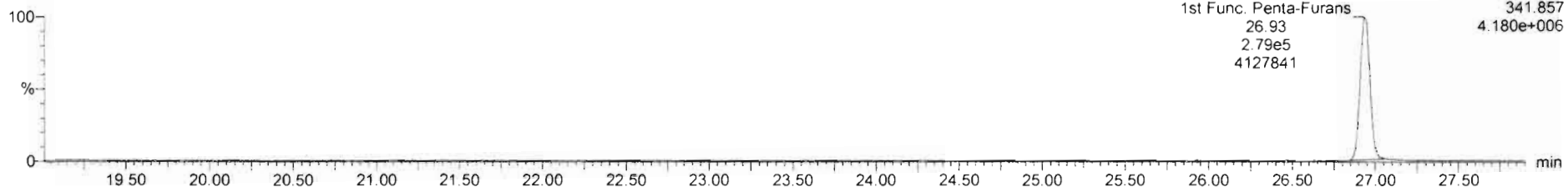
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1st Func. Penta-Furans

200229R1_14

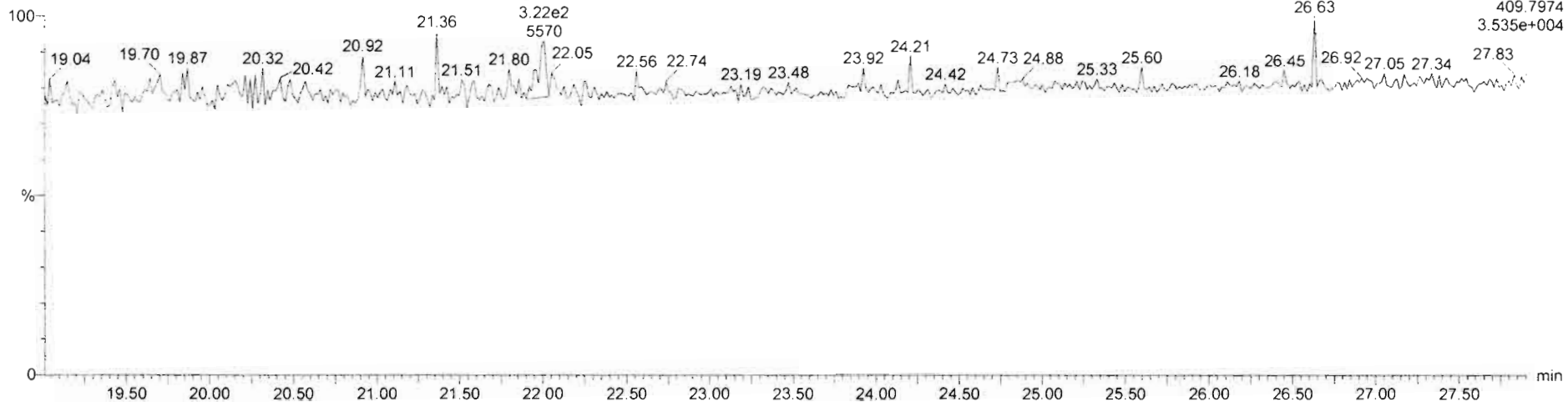


200229R1_14



DPE6

200229R1_14



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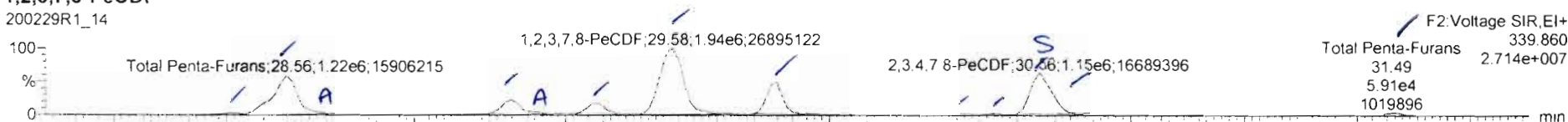
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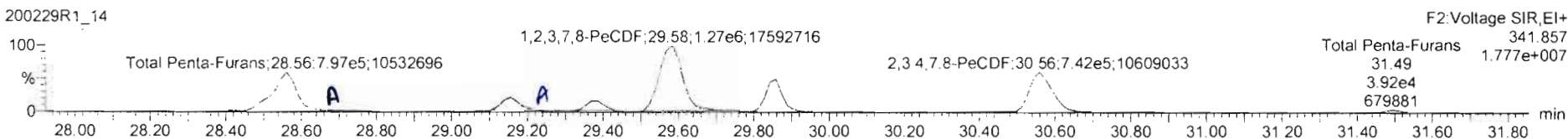
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1,2,3,7,8-PeCDF

200229R1_14

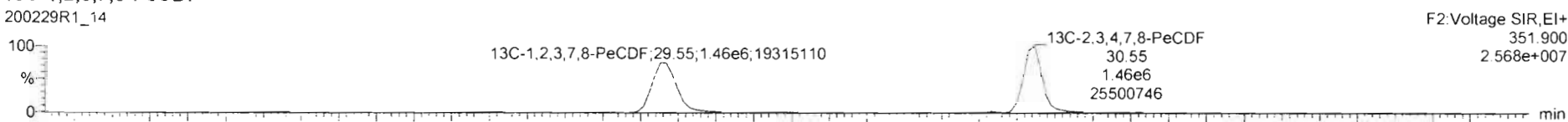


200229R1_14

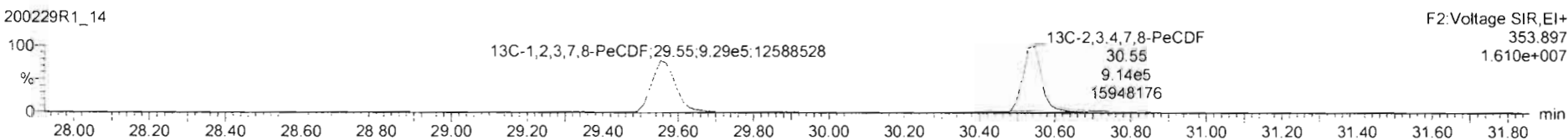


13C-1,2,3,7,8-PeCDF

200229R1_14

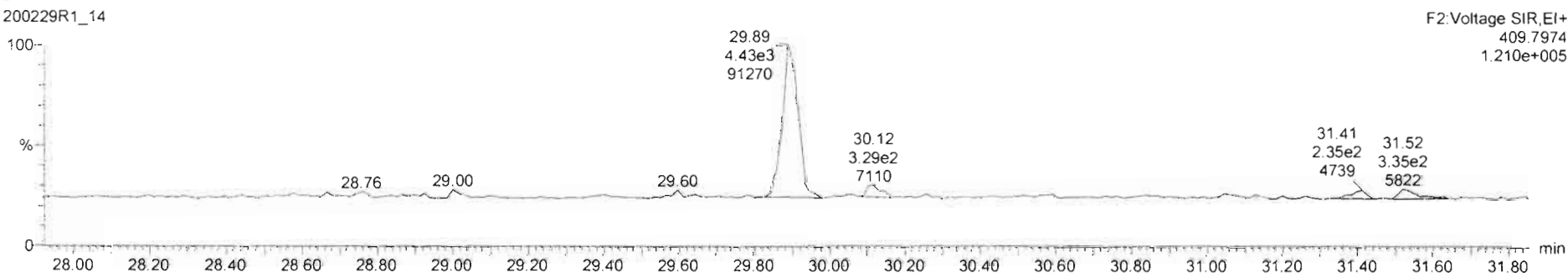


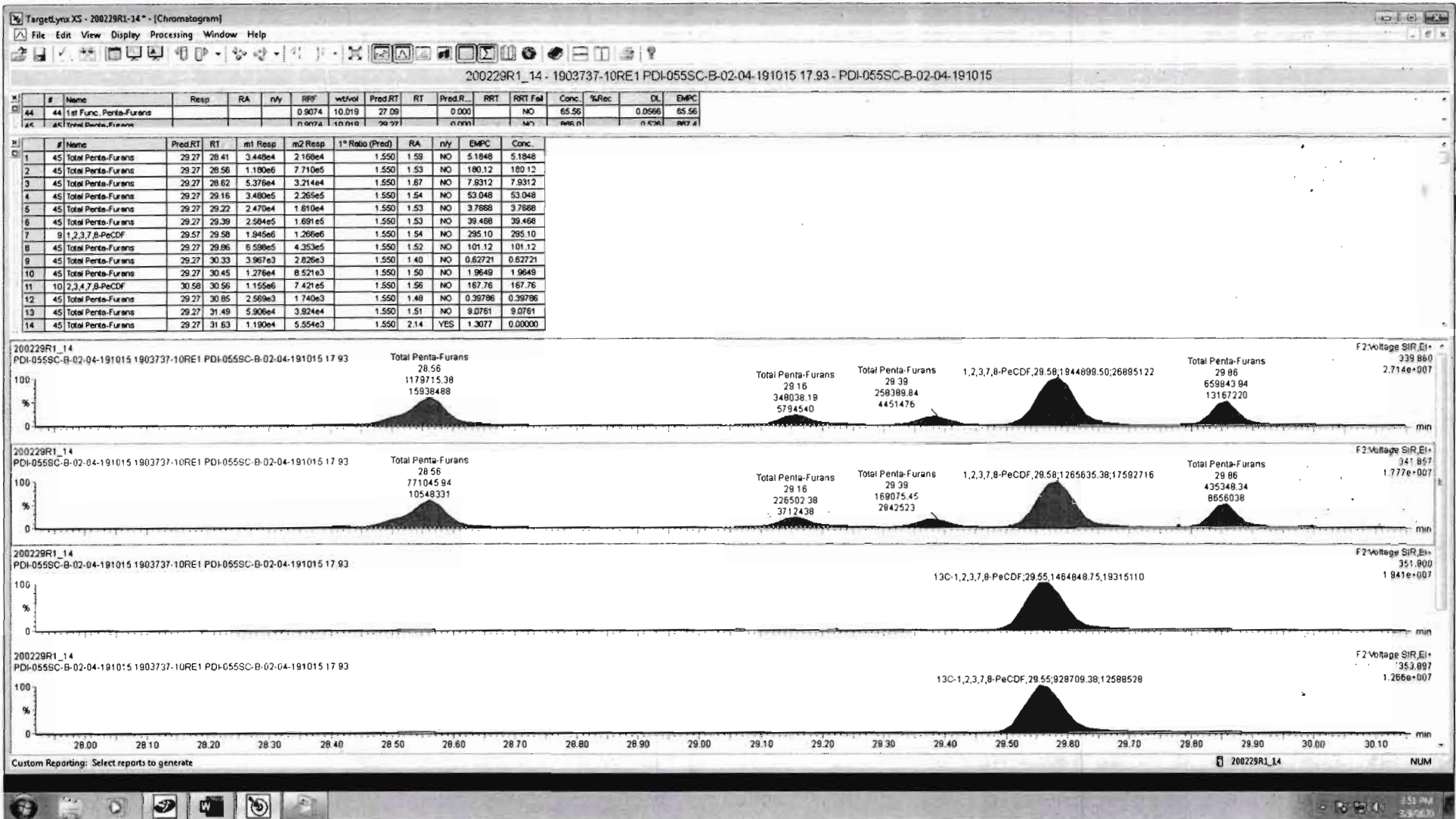
200229R1_14

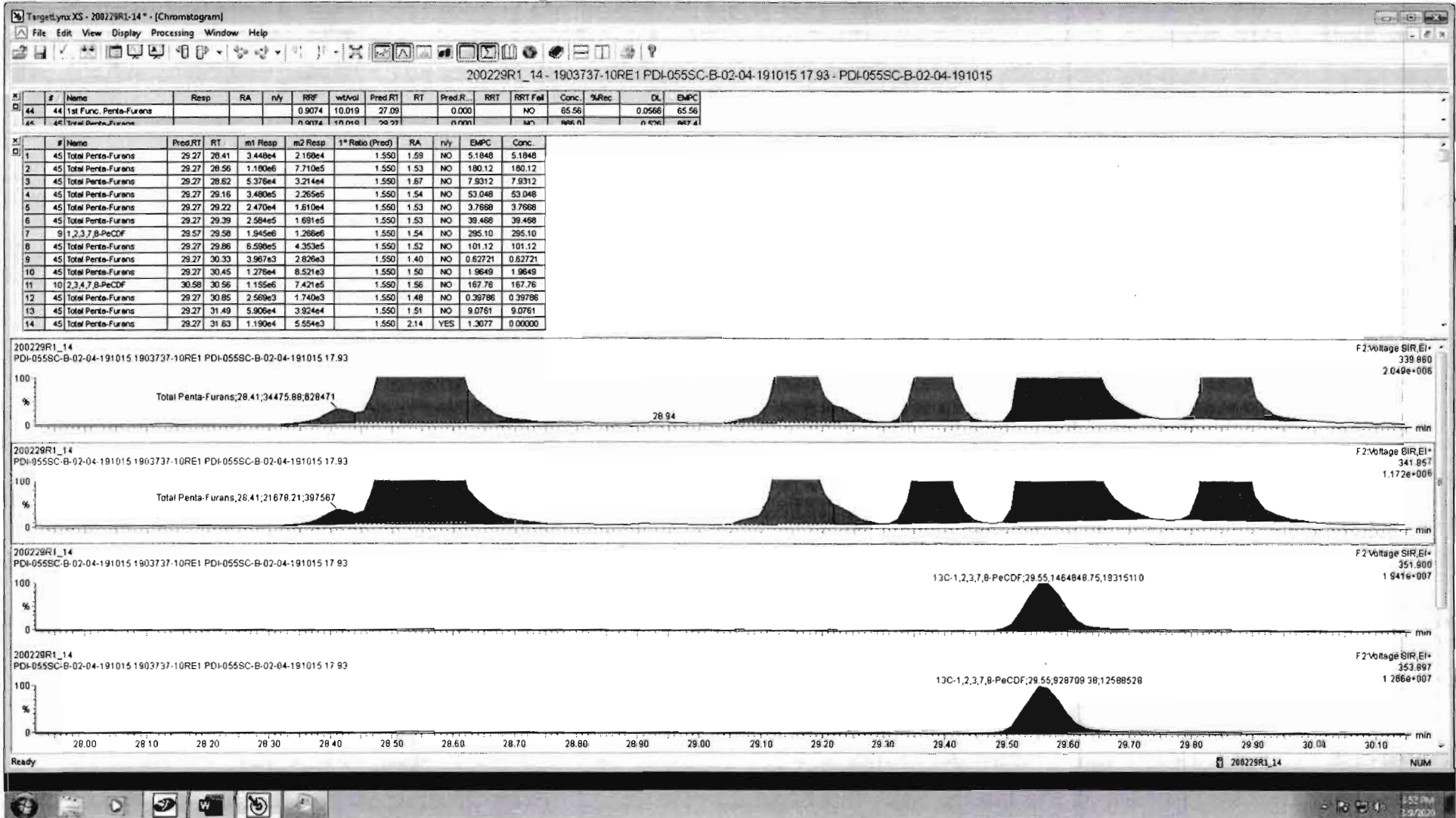


DPE2

200229R1_14



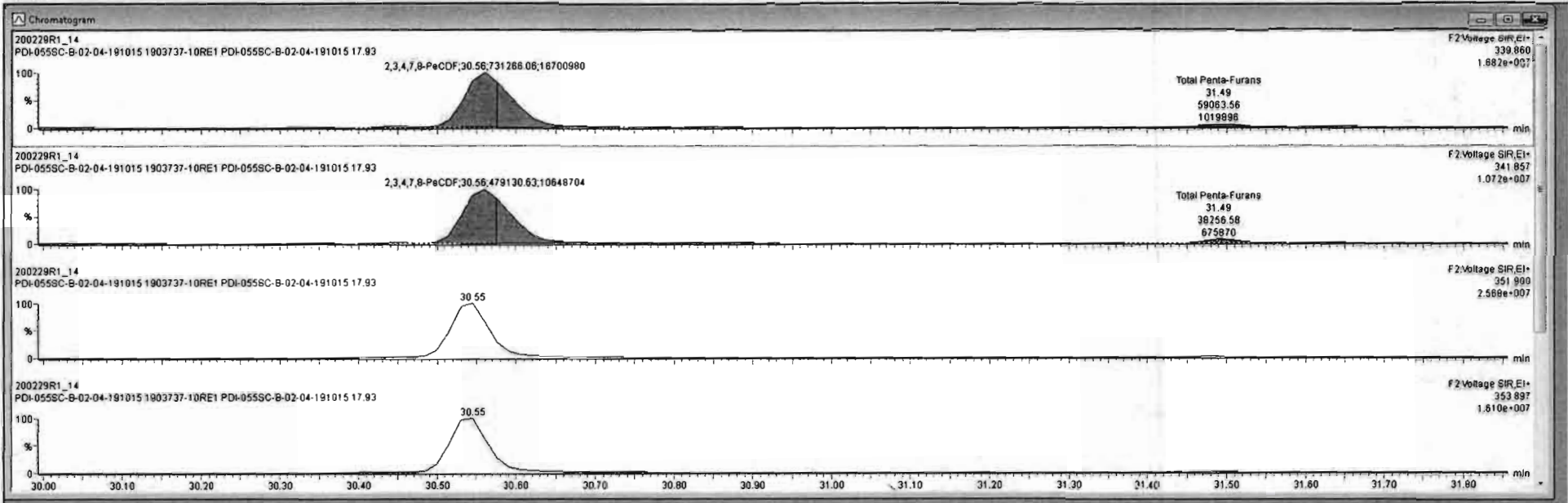


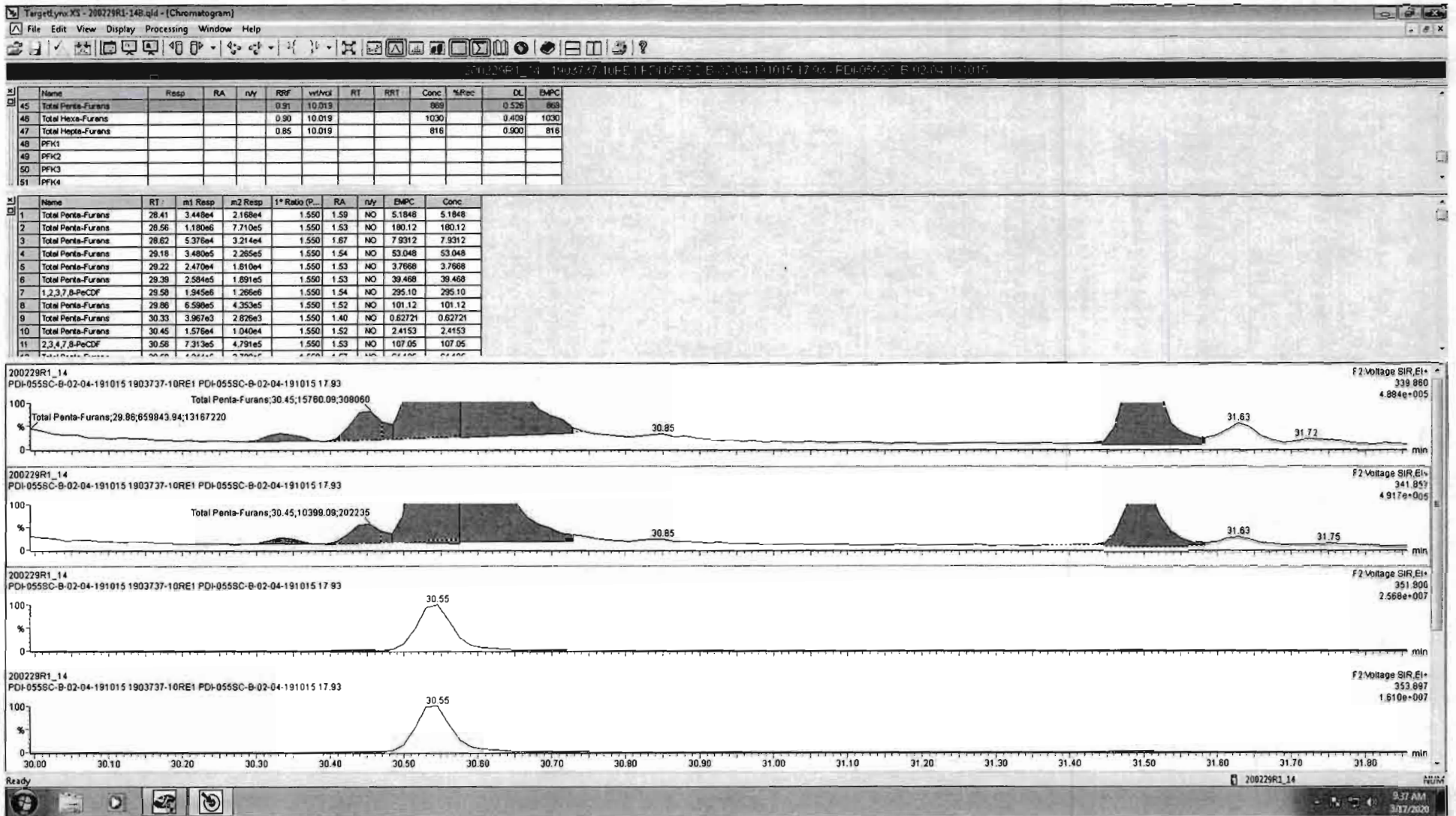


200229R1_14 PDI-055SC-B-02-04-191015 17.93 PDI-055SC-B-02-04-191015

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.91	10.019			869	0.826	869	
46 Total Hexa-Furans				0.90	10.019			1030	0.409	1030	
47 Total Hepta-Furans				0.85	10.019			816	0.900	816	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	1* Ratio (P...	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.41	3.448e4	2.168e4	1.550	1.59	NO	5.1848	5.1848
2 Total Penta-Furans	28.56	1.180e5	7.710e5	1.550	1.53	NO	180.12	180.12
3 Total Penta-Furans	28.62	5.378e4	3.214e4	1.550	1.67	NO	7.9312	7.9312



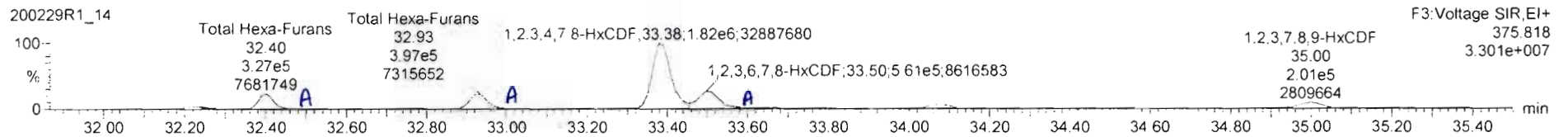
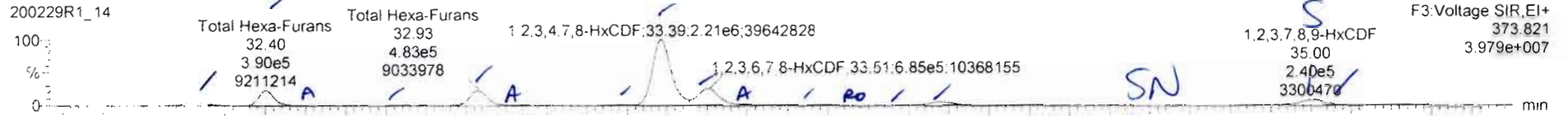


Dataset: Untitled

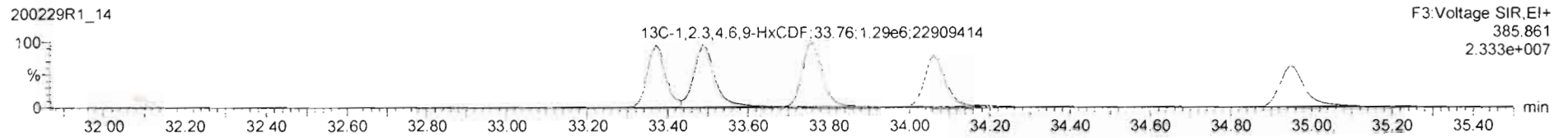
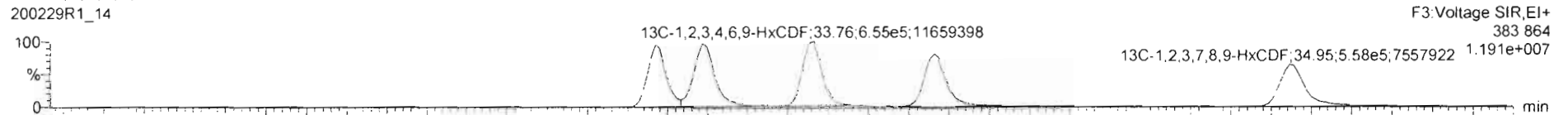
Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_14, Date: 29-Feb-2020, Time: 21:30:57, ID: 1903737-10RE1 PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

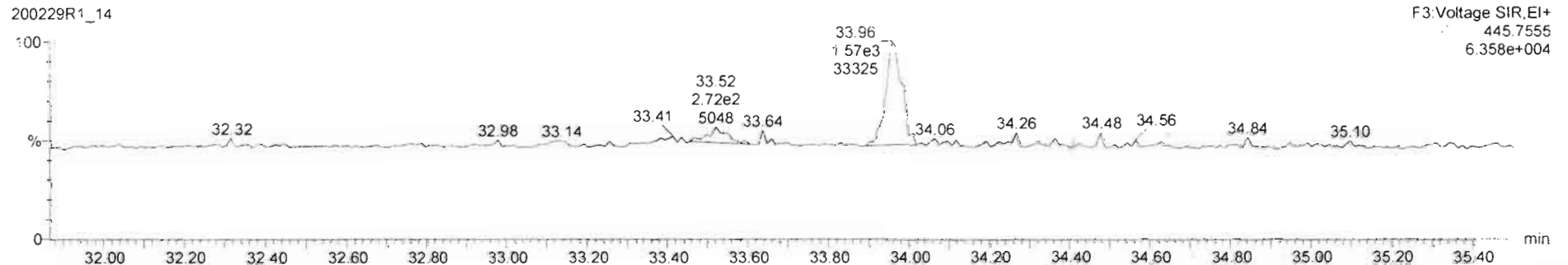
1,2,3,4,7,8-HxCDF

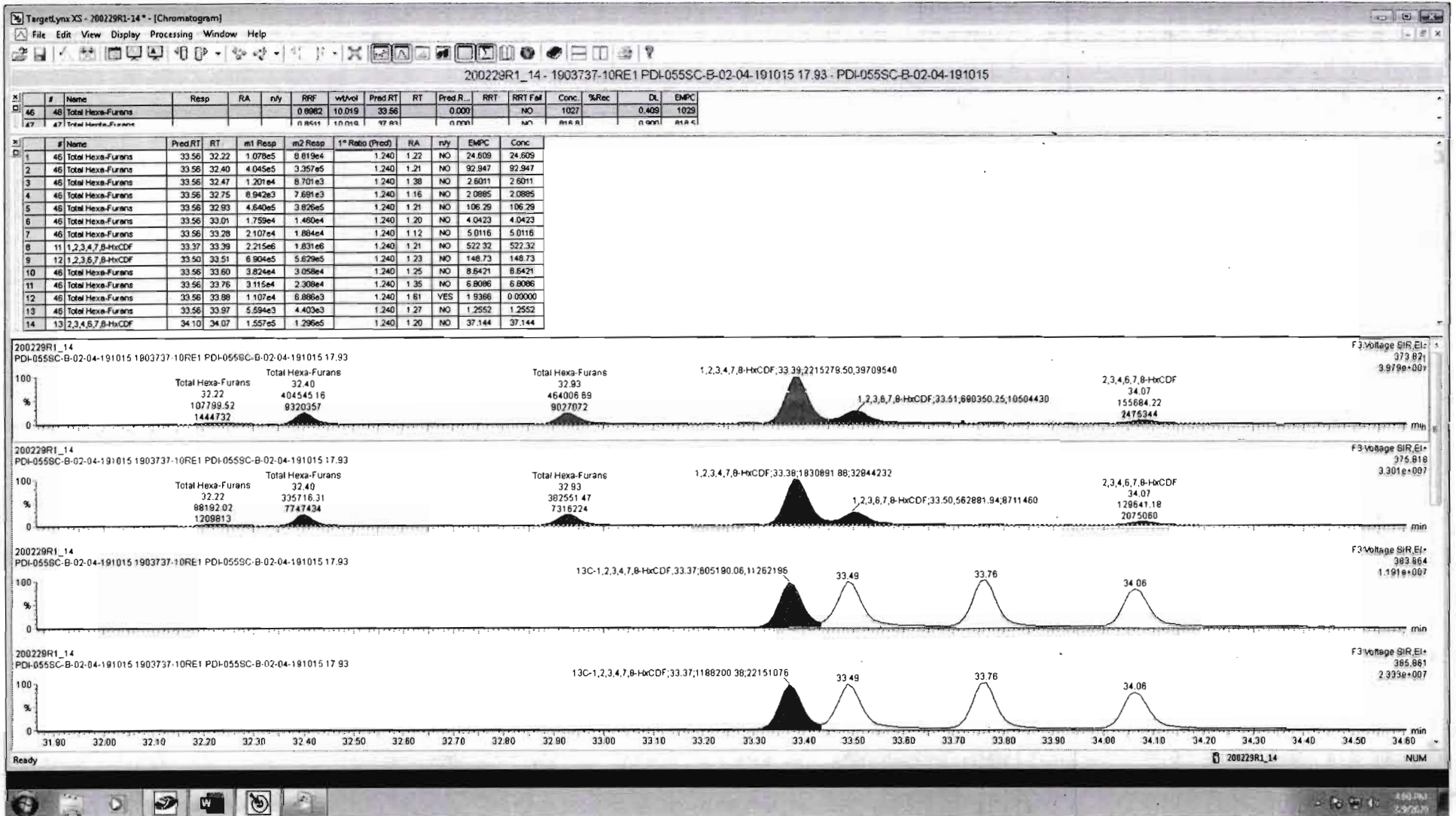


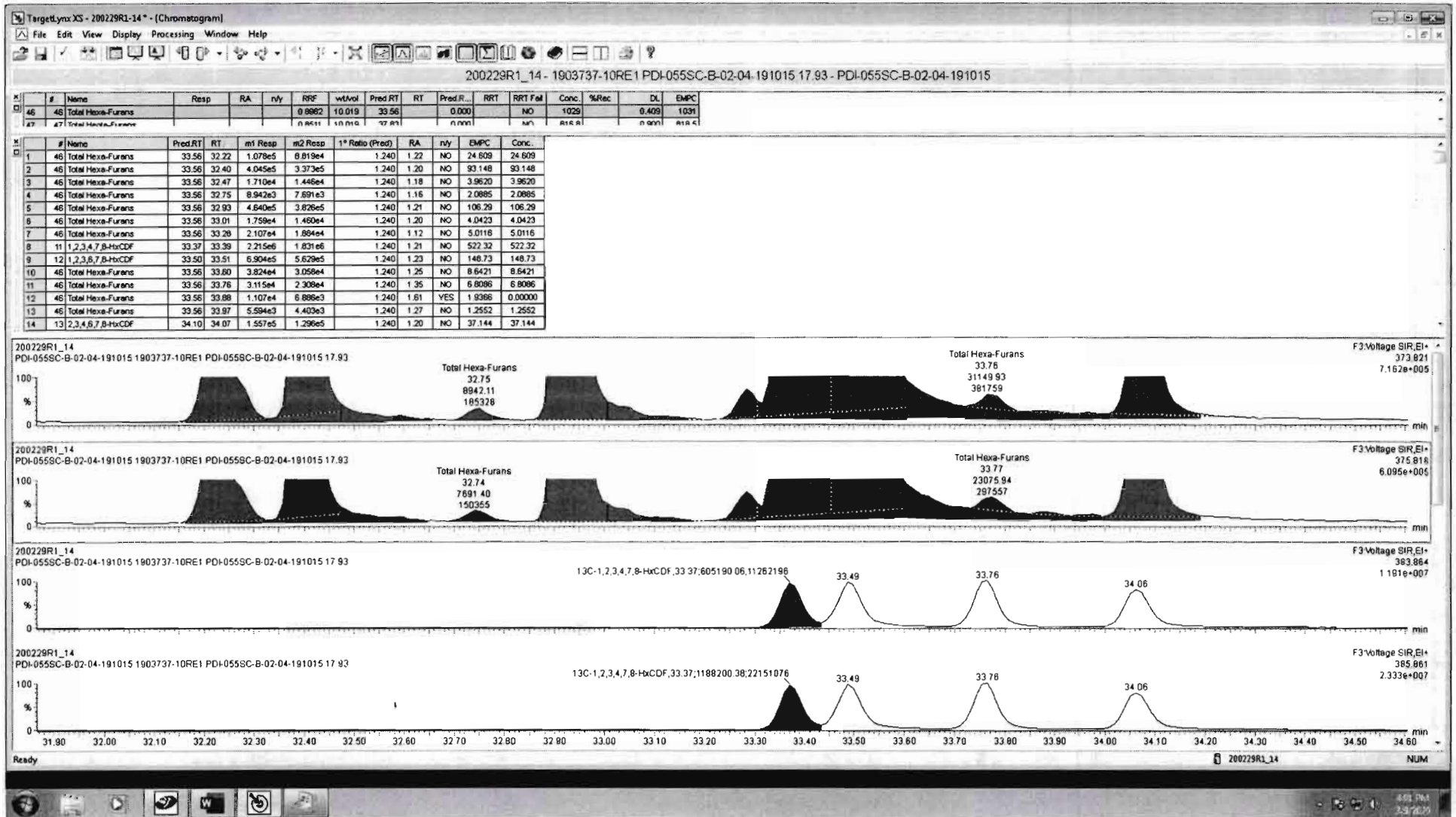
13C-1,2,3,4,7,8-HxCDF

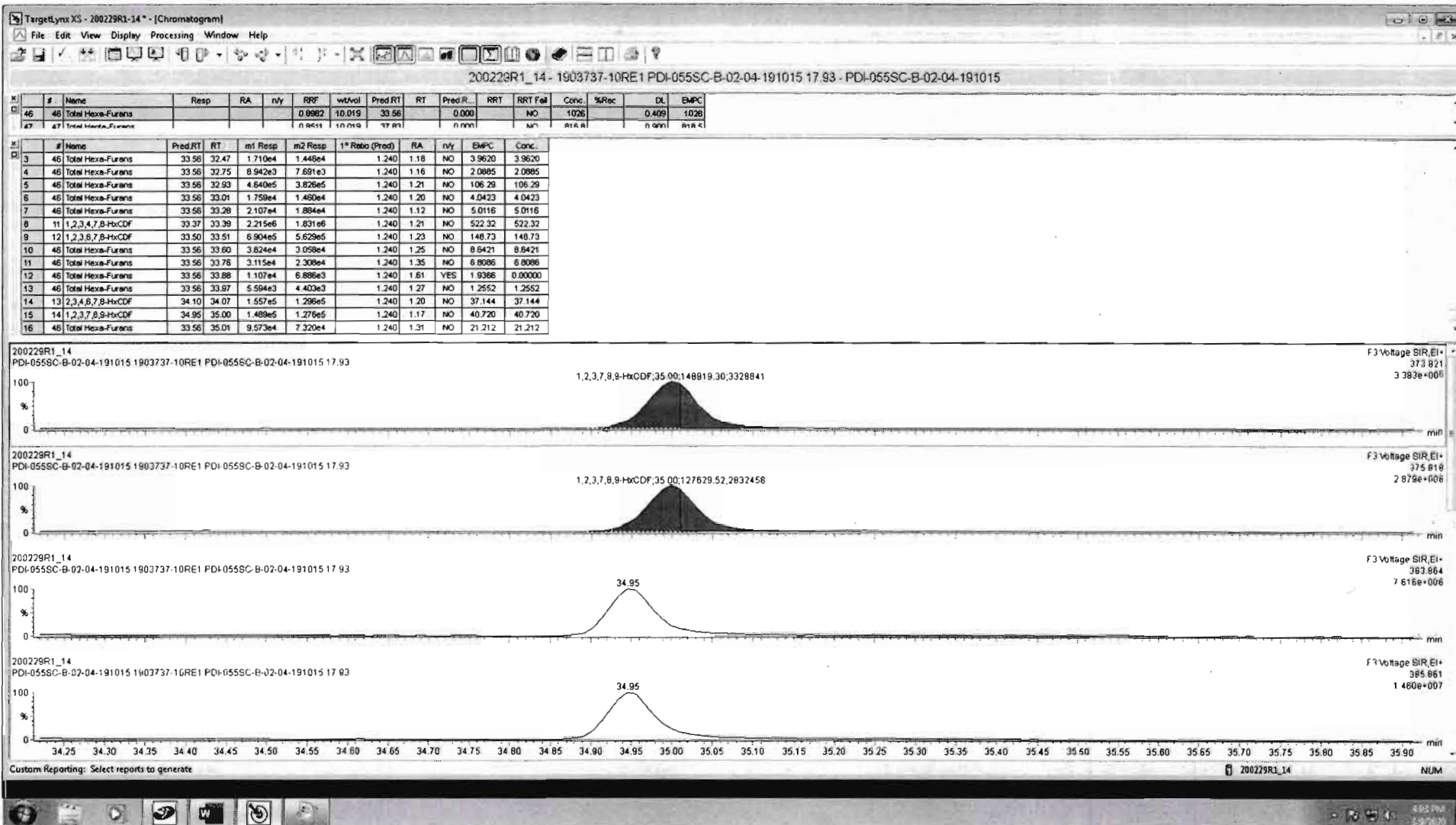


DPE3









Dataset: Untitled

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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

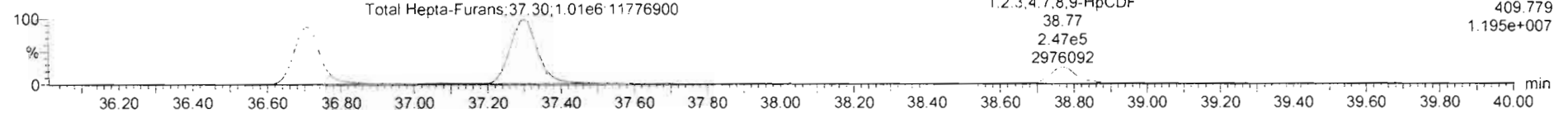
Name: 200229R1_14, Date: 29-Feb-2020, Time: 21:30:57, ID: 1903737-10RE1 PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

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

200229R1_14

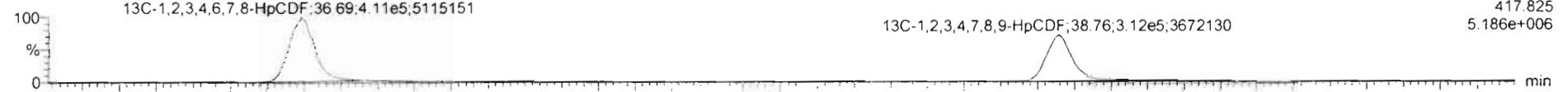


200229R1_14

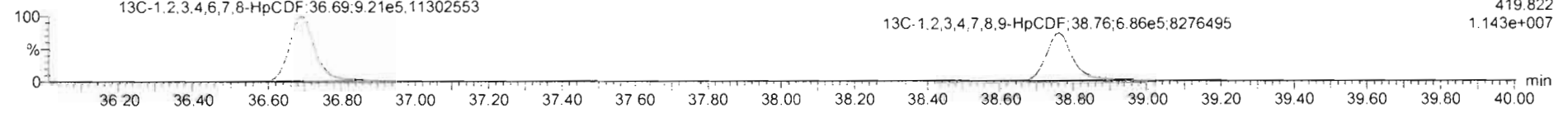


13C-1,2,3,4,6,7,8-HpCDF

200229R1_14

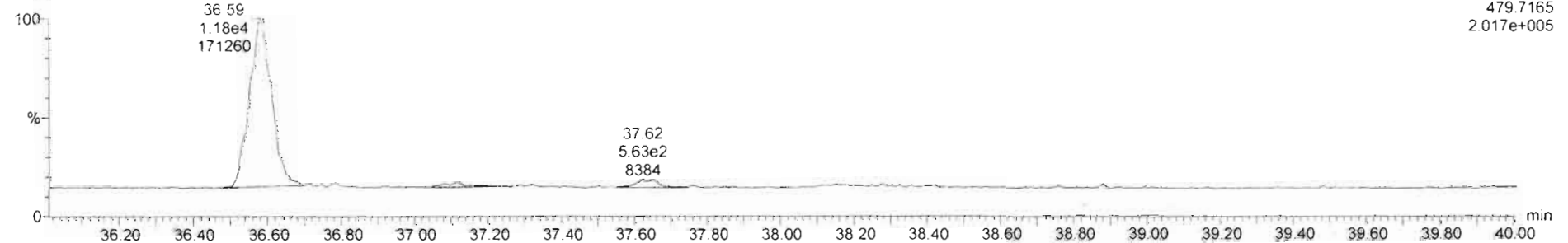


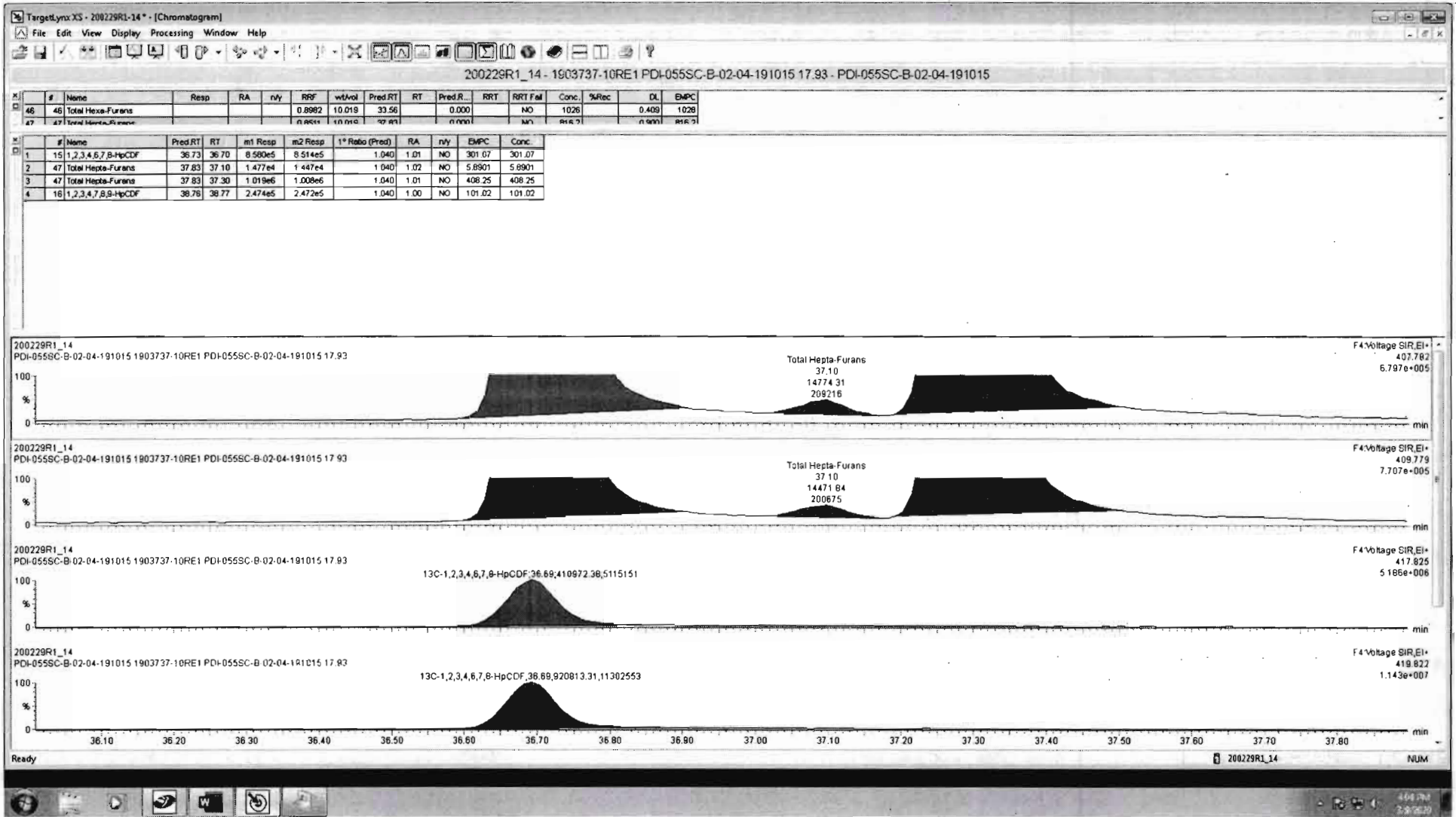
200229R1_14



DPE4

200229R1_14



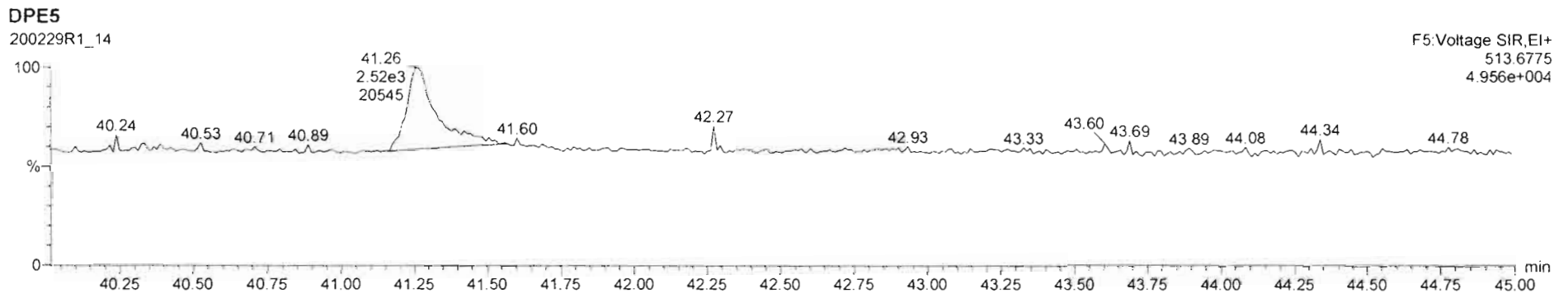
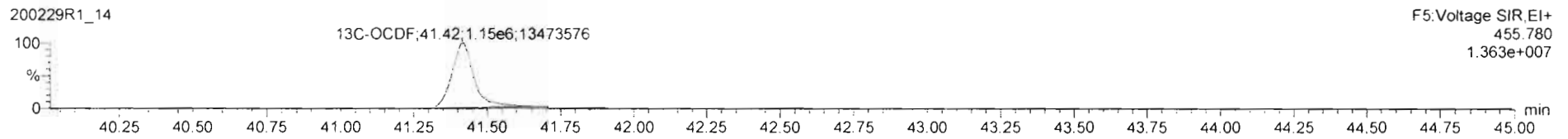
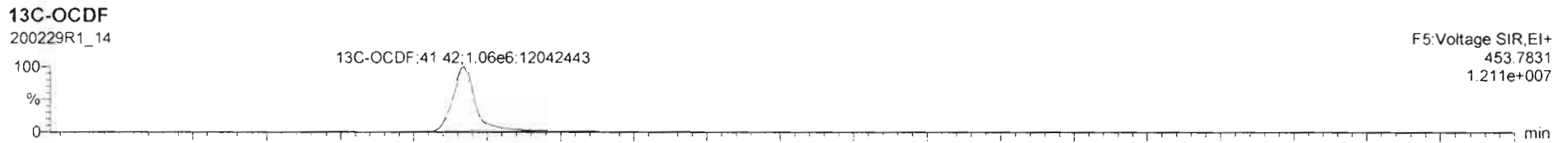
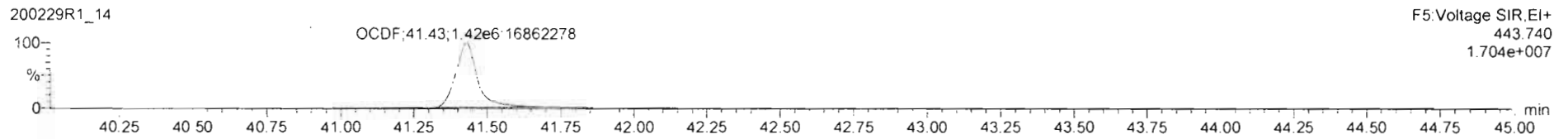


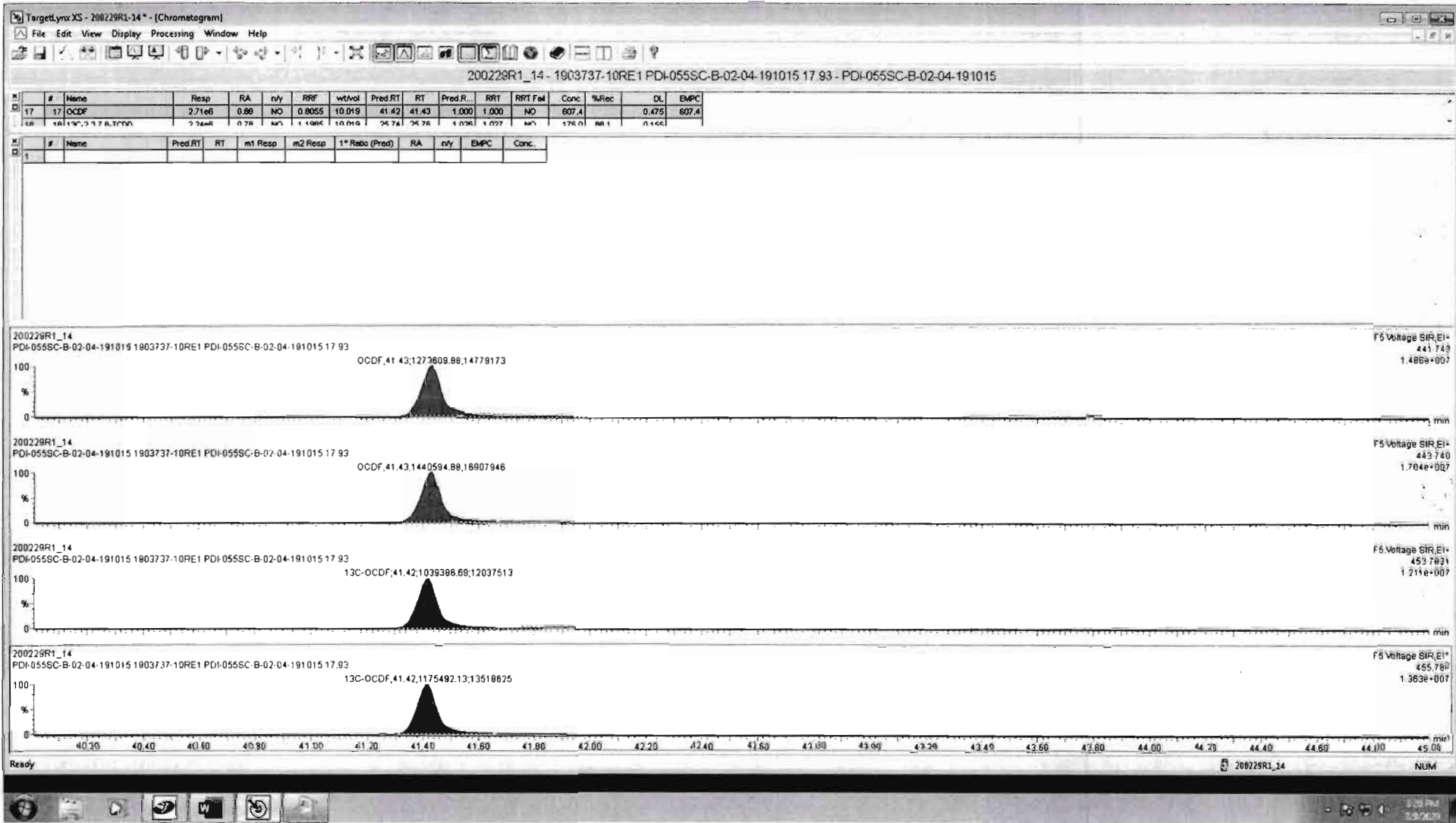
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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_14, Date: 29-Feb-2020, Time: 21:30:57, ID: 1903737-10RE1 PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015



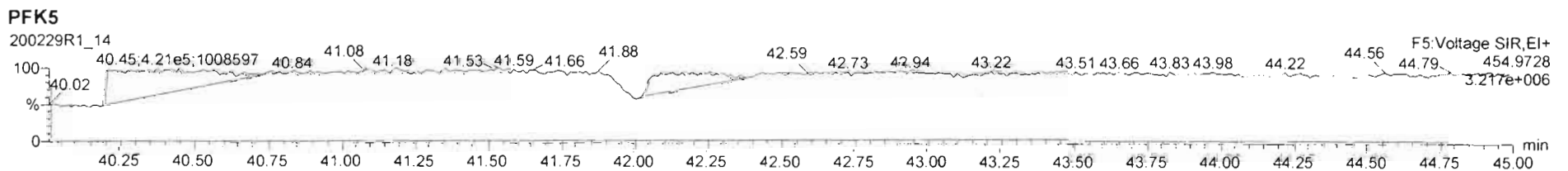
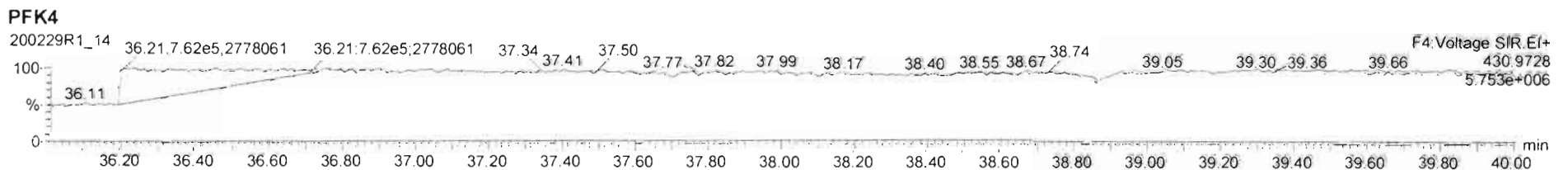
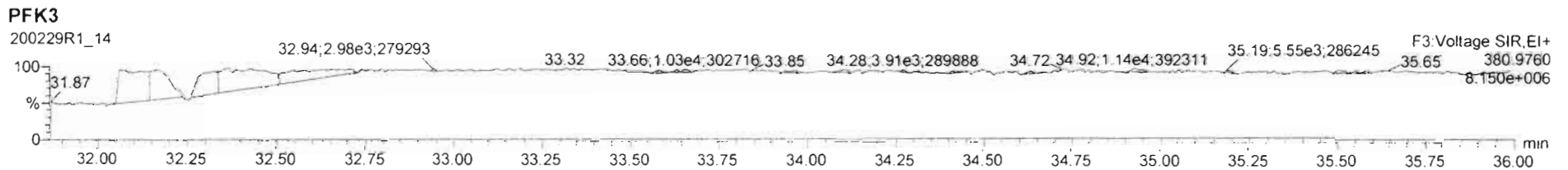
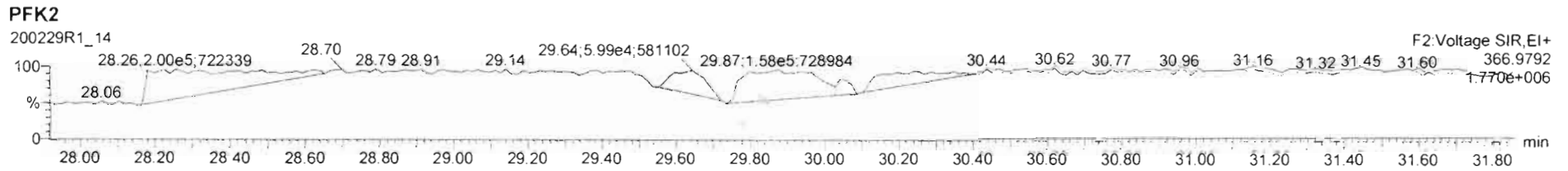
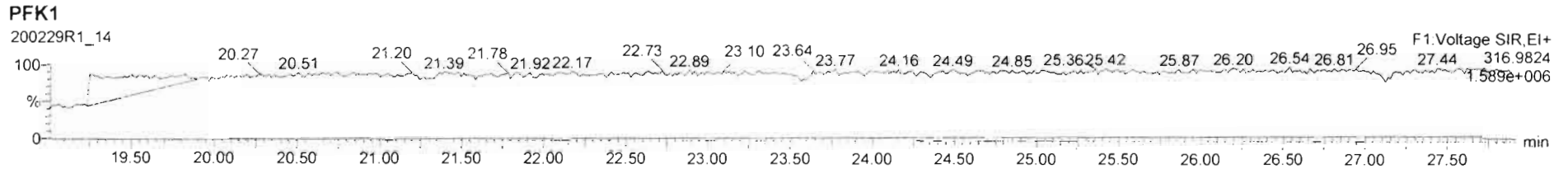


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Name: 200229R1_14, Date: 29-Feb-2020, Time: 21:30:57, ID: 1903737-10RE1 PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015



Dataset: U:\VG12.PRO\Results\200315R2\200315R2-10.qld

Last Altered: Monday, March 16, 2020 08:52:56 Pacific Daylight Time

Printed: Monday, March 16, 2020 09:15:12 Pacific Daylight Time

GPB 03/16/2020

CT 03/16/2020

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

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

Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:07:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

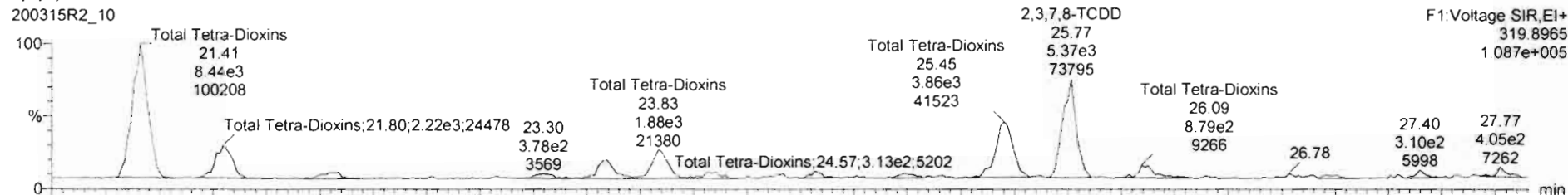
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1	7 OCDD	5.32e6	0.88	NO	1.05	10.019	41.414	41.42	1.000	1.000	6785.7		3.18	6790
2	24 13C-OCDD	2.98e5	0.88	NO	0.571	10.019	41.419	41.41	1.219	1.219	388.51	97.3	1.01	
3	35 37Cl-2,3,7,8-TCDD	1.20e5			1.17	10.019	25.729	25.75	1.029	1.030	66.740	83.6	0.203	
4	36 13C-1,2,3,4-TCDD	3.06e5	0.77	NO	1.00	10.019	25.050	25.00	1.000	1.000	199.63	100	0.638	
5	37 13C-1,2,3,4-TCDF	4.25e5	0.80	NO	1.00	10.019	23.190	23.09	1.000	1.000	199.63	100	0.886	
6	38 13C-1,2,3,4,6,9-HxCDF	2.68e5	0.52	NO	1.00	10.019	33.880	33.97	1.000	1.000	199.63	100	1.13	

Dataset: Untitled

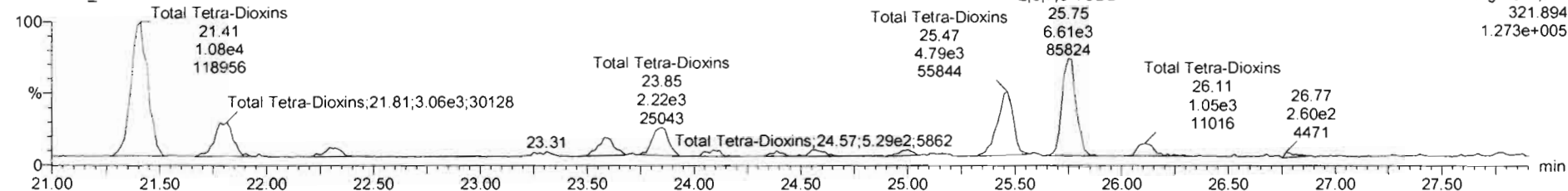
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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:37:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

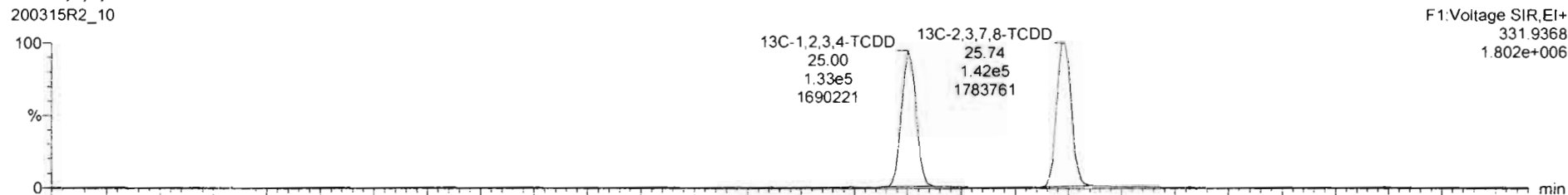
2,3,7,8-TCDD



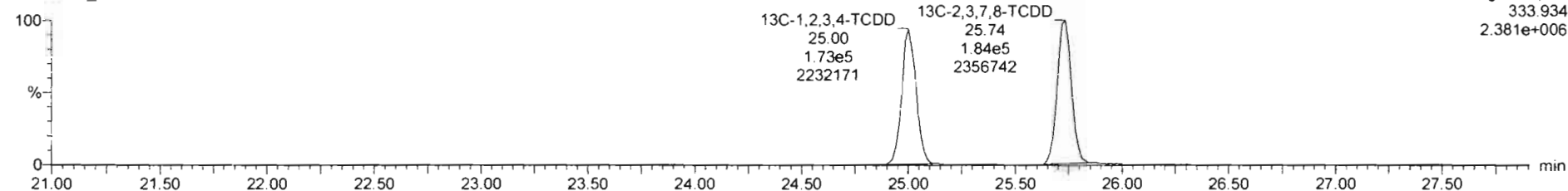
2,3,7,8-TCDD



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



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



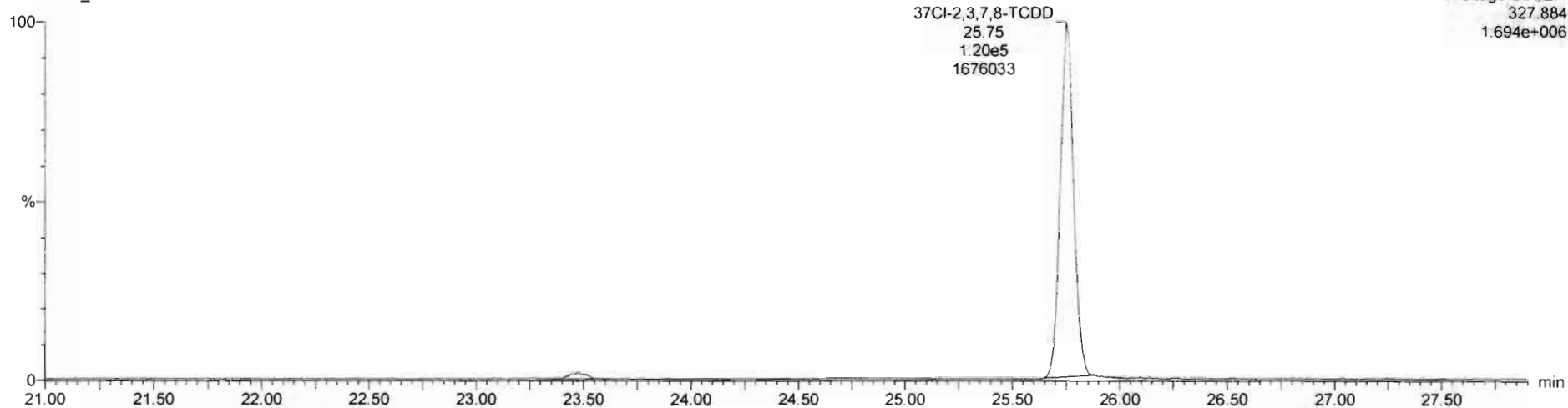
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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:37:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

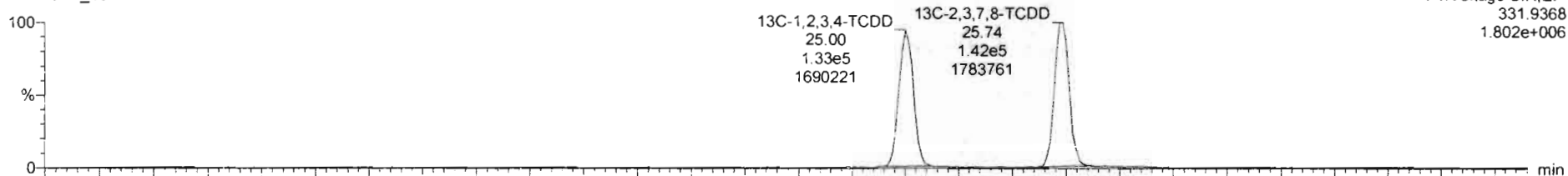
37Cl-2,3,7,8-TCDD

200315R2_10

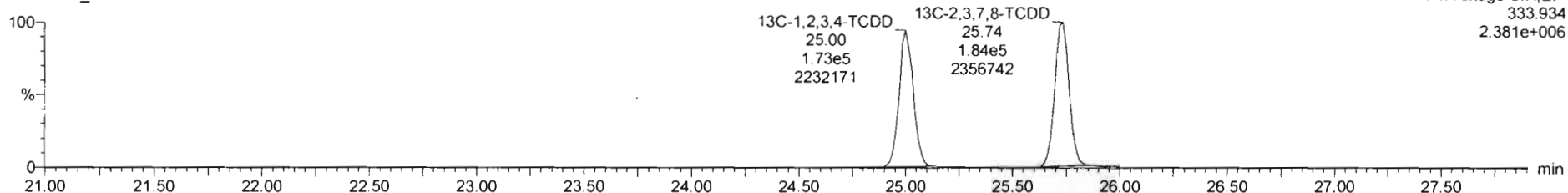


13C-1,2,3,4-TCDD

200315R2_10



200315R2_10



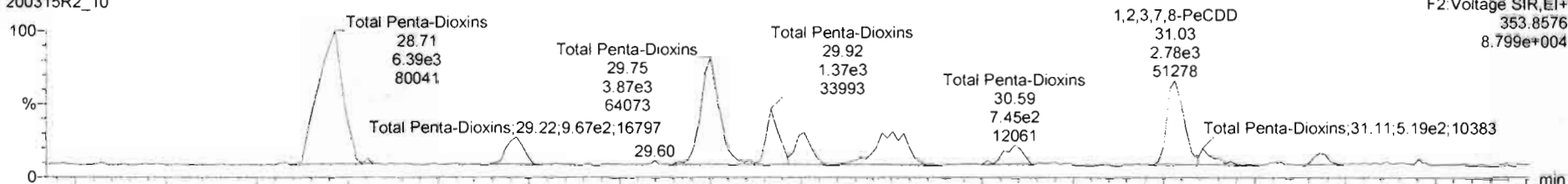
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 Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

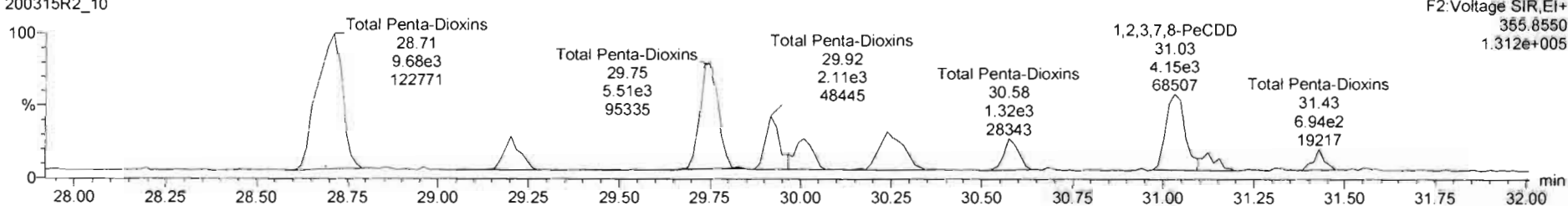
Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:37:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

1,2,3,7,8-PeCDD

200315R2_10

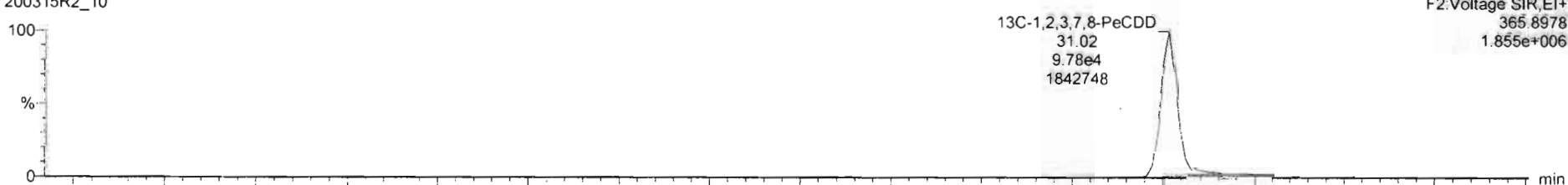


200315R2_10

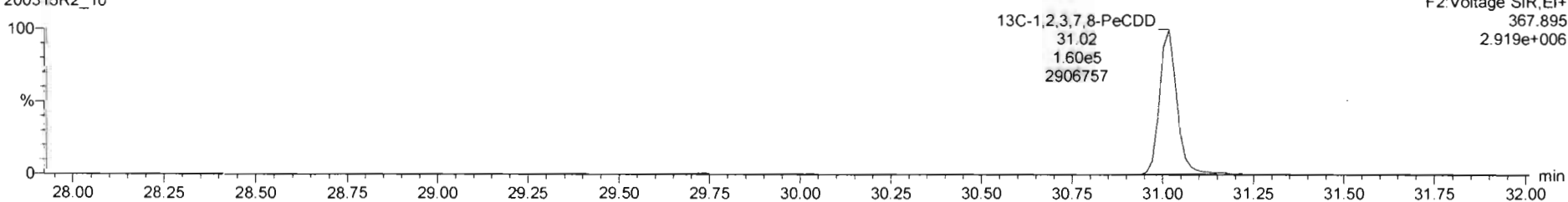


13C-1,2,3,7,8-PeCDD

200315R2_10



200315R2_10



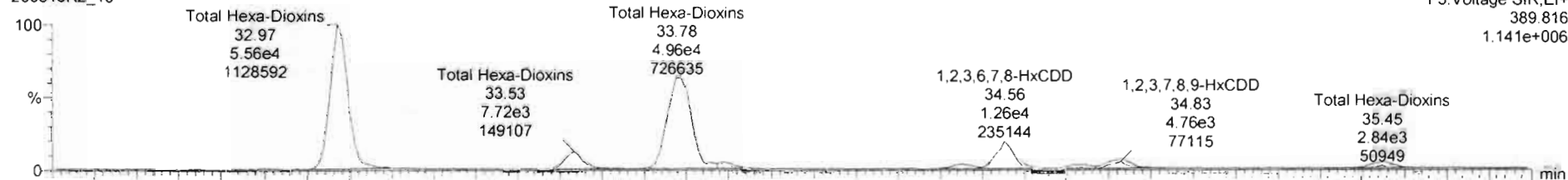
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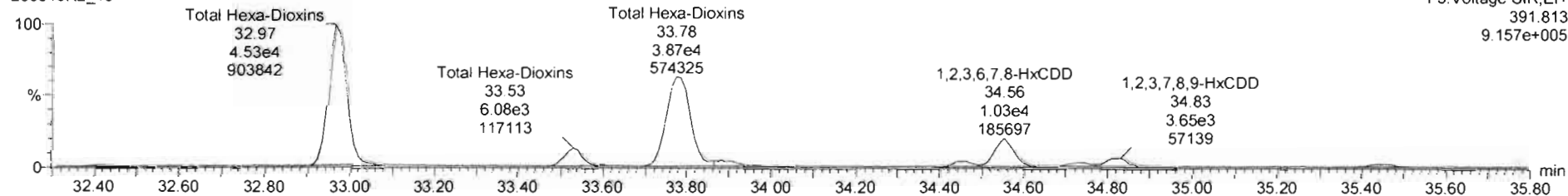
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1,2,3,4,7,8-HxCDD

200315R2_10

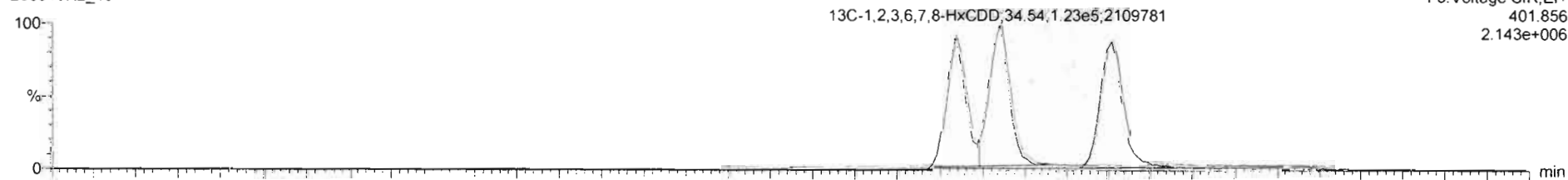


200315R2_10

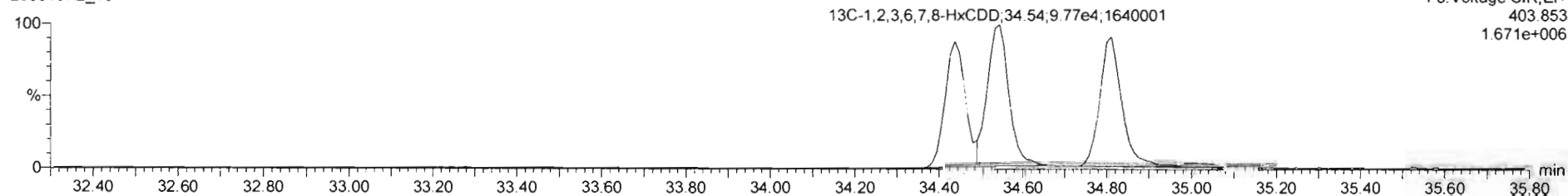


13C-1,2,3,4,7,8-HxCDD

200315R2_10



200315R2_10



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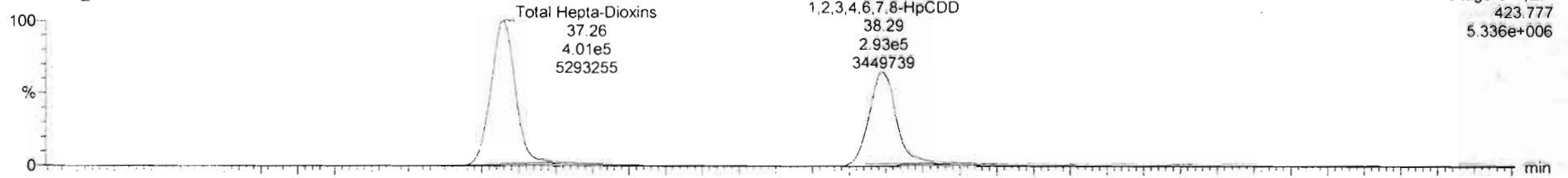
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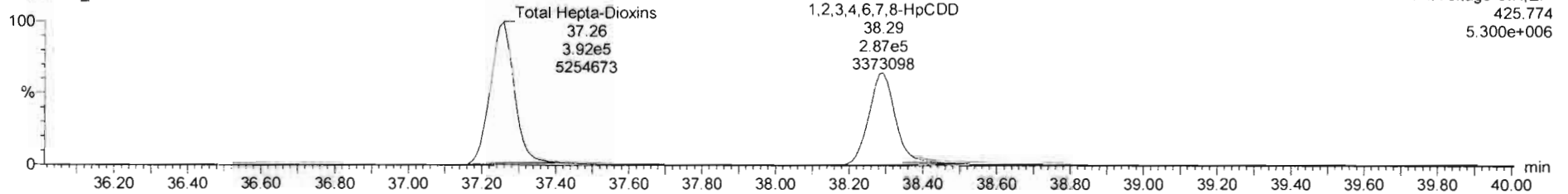
Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:07:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

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

200315R2_10

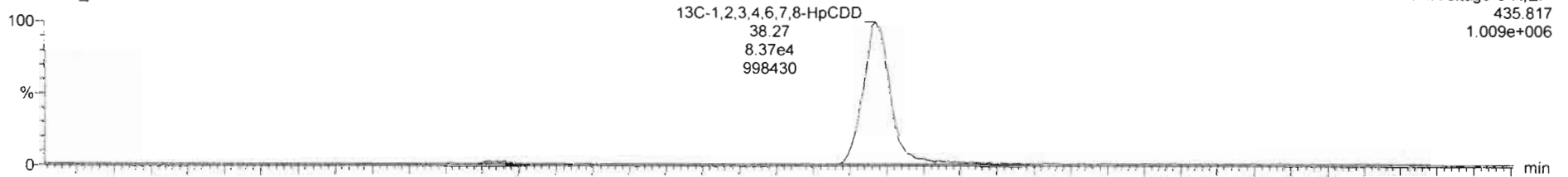


200315R2_10

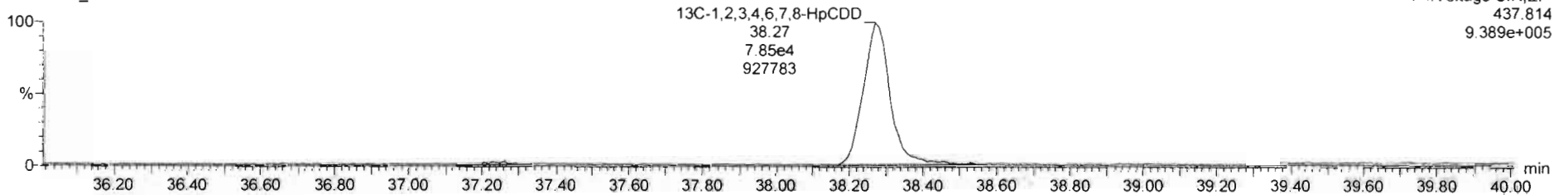


13C-1,2,3,4,6,7,8-HpCDD

200315R2_10



200315R2_10

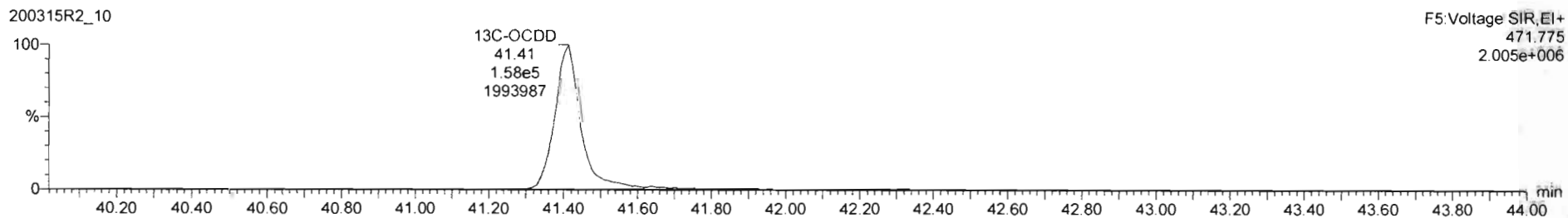
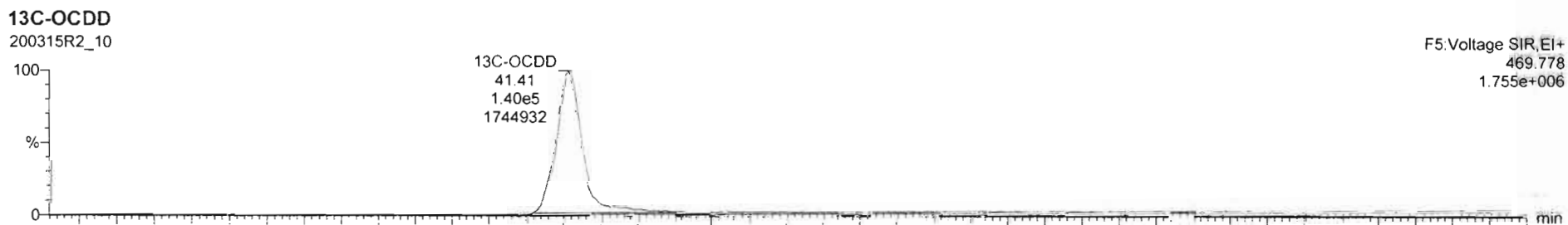
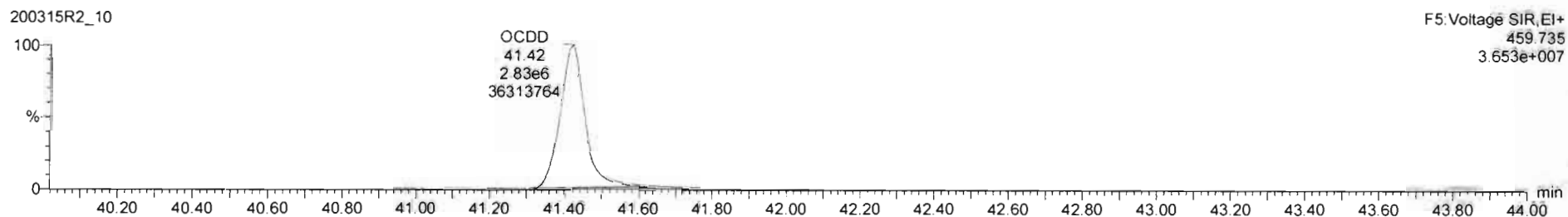
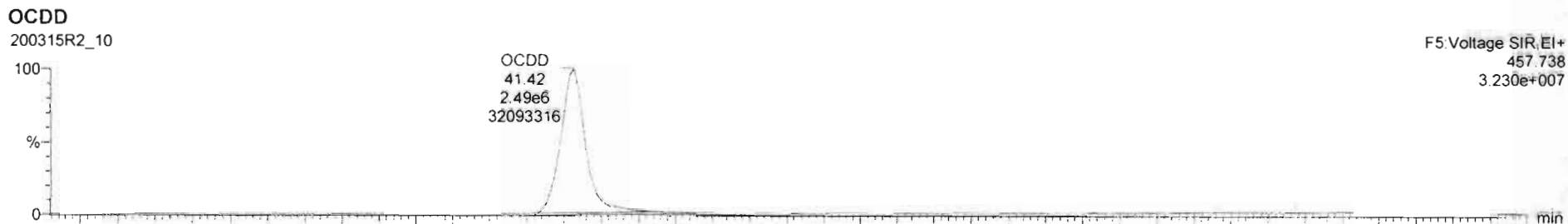


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Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time

Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:07:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015



Dataset: Untitled

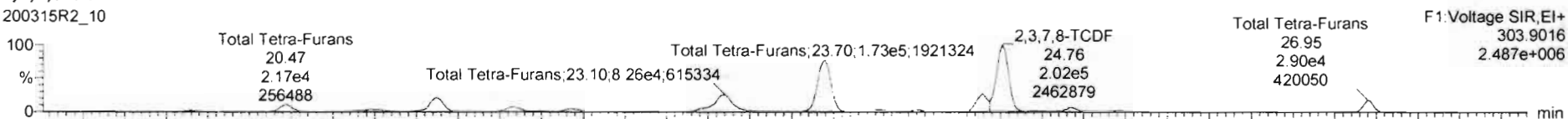
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Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

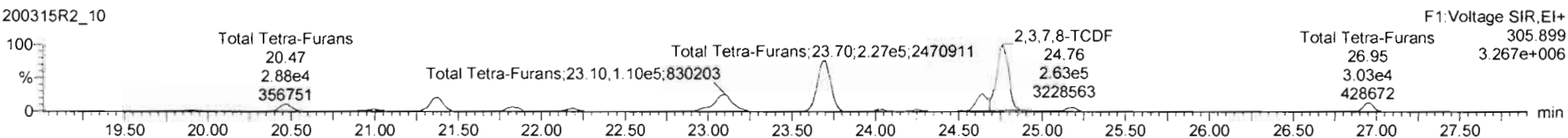
Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:07:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

2,3,7,8-TCDF

200315R2_10

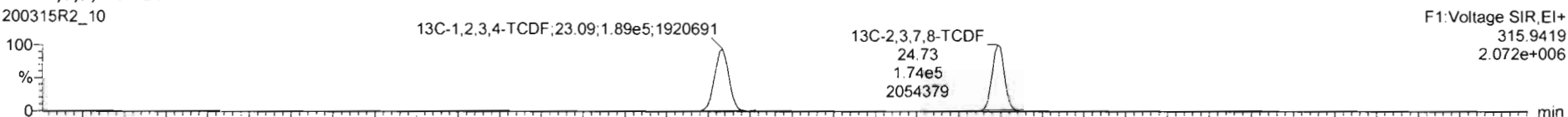


200315R2_10

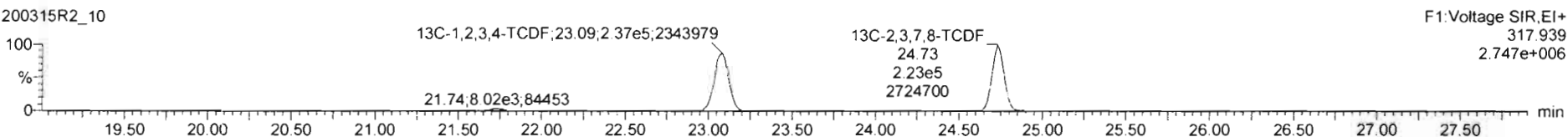


13C-2,3,7,8-TCDF

200315R2_10

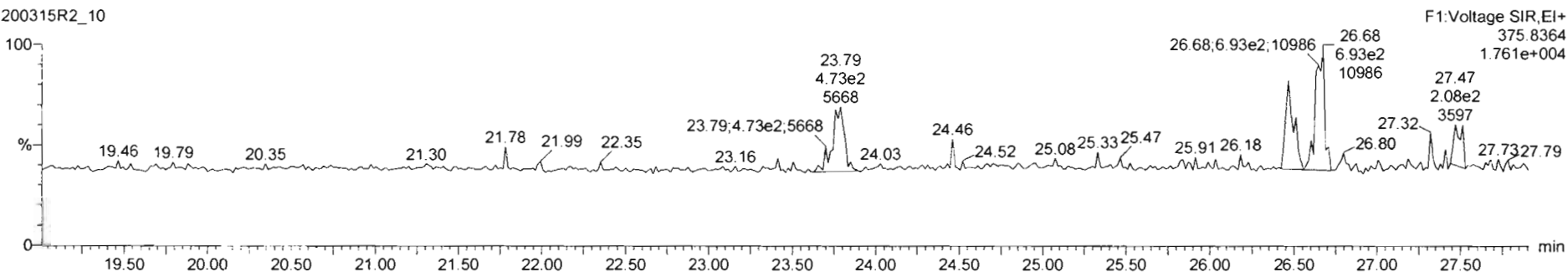


200315R2_10



DPE1

200315R2_10



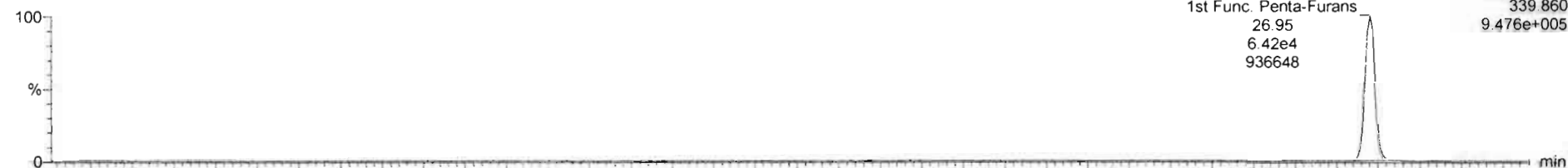
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Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time
Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

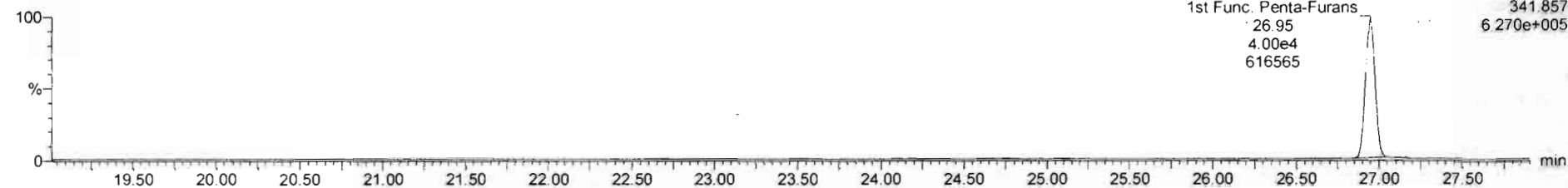
Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:37:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

1st Func. Penta-Furans

200315R2_10

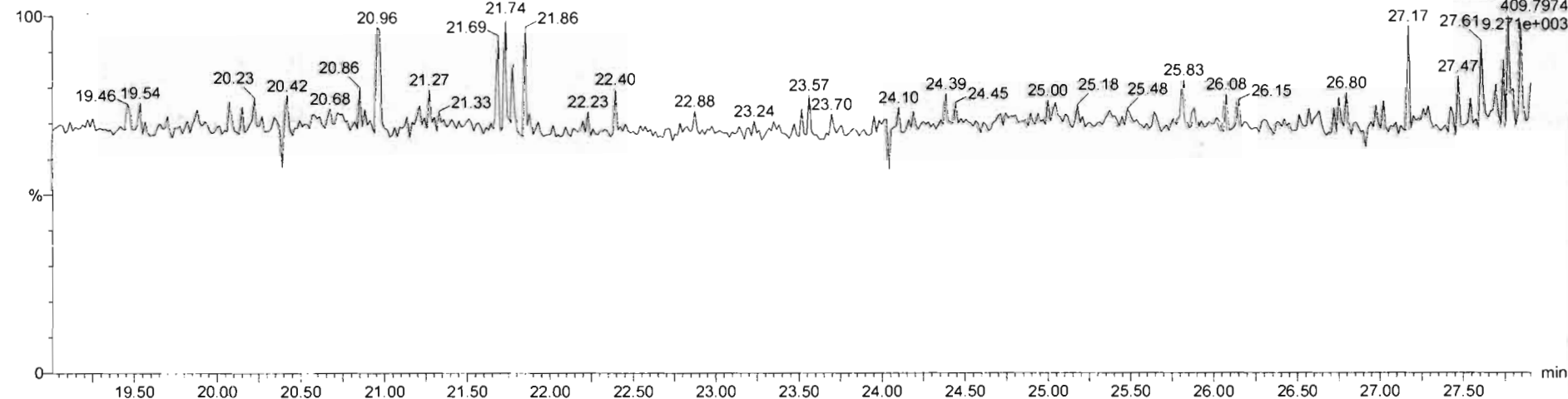


200315R2_10



DPE6

200315R2_10



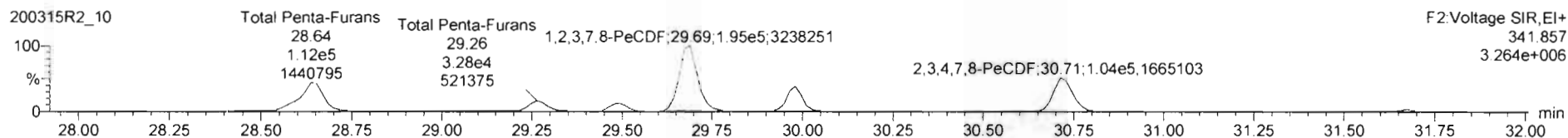
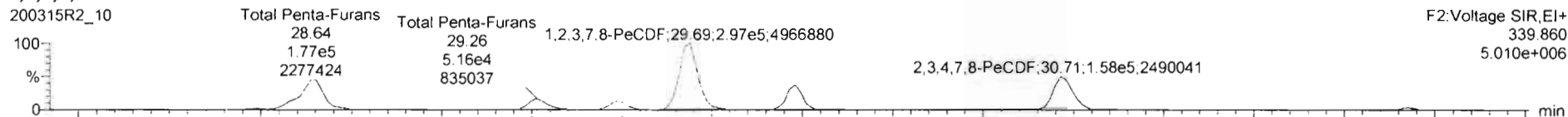
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Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time

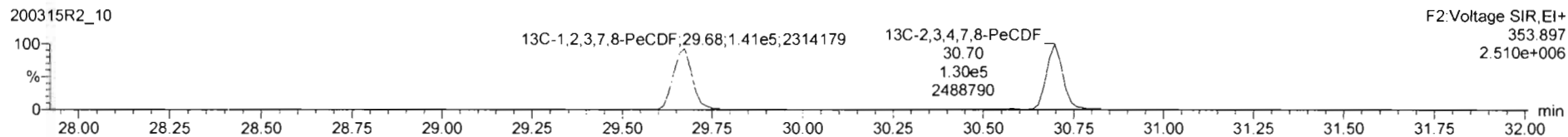
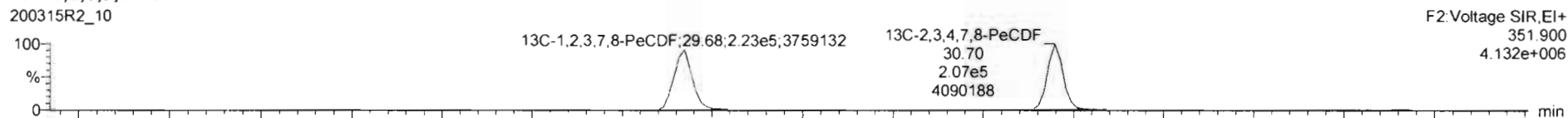
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Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:07:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

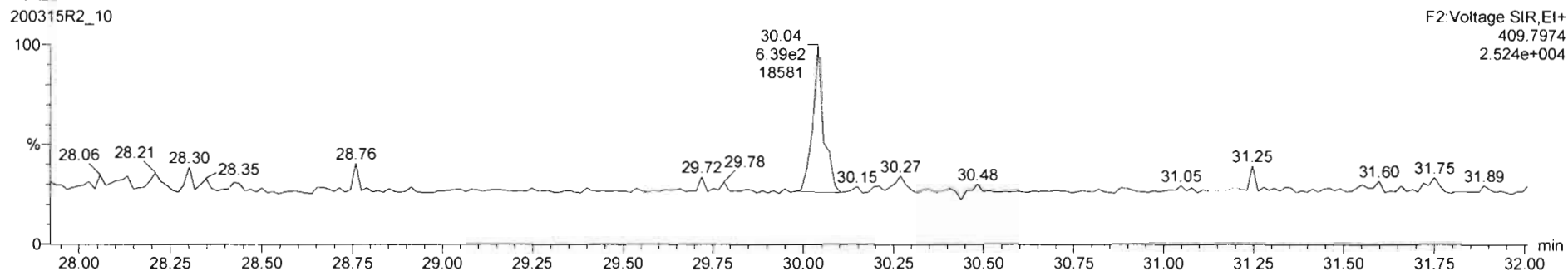
1,2,3,7,8-PeCDF



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



DPE2



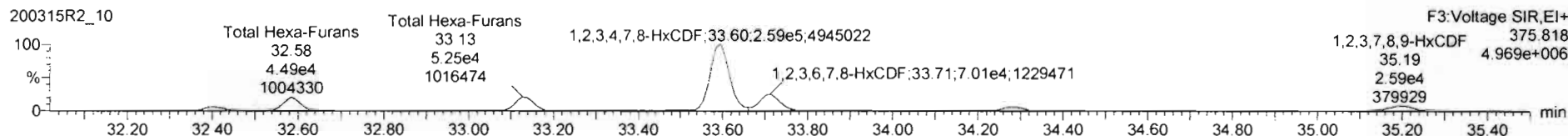
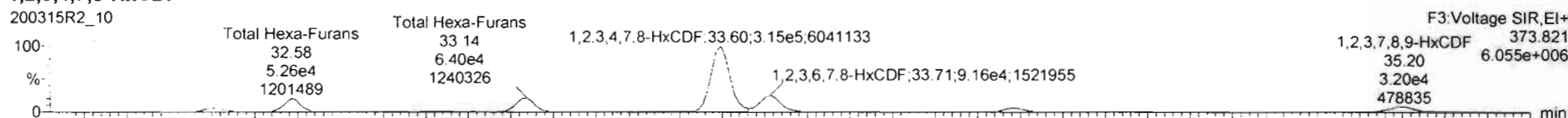
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Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time

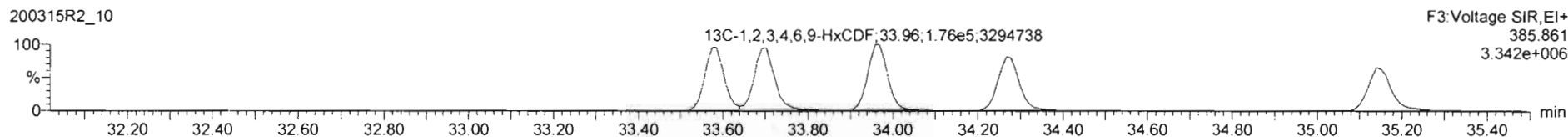
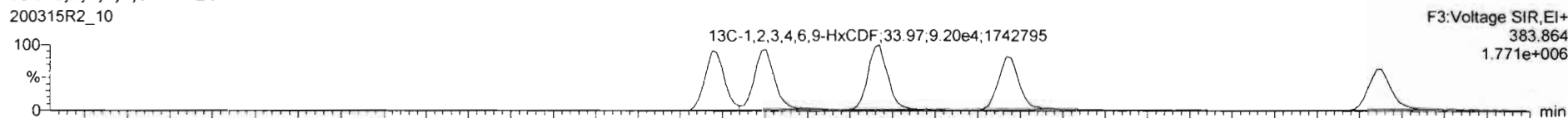
Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:07:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

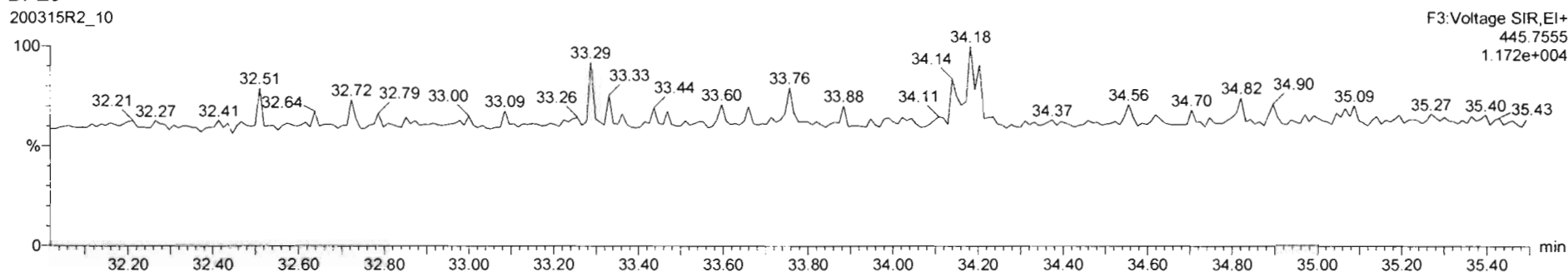
1,2,3,4,7,8-HxCDF



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



DPE3



Dataset: Untitled

Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time
Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

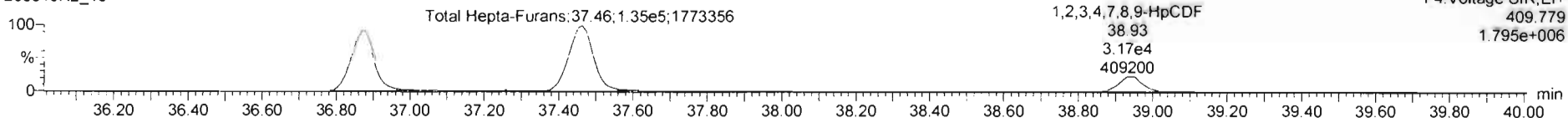
Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:07:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

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

200315R2_10



200315R2_10

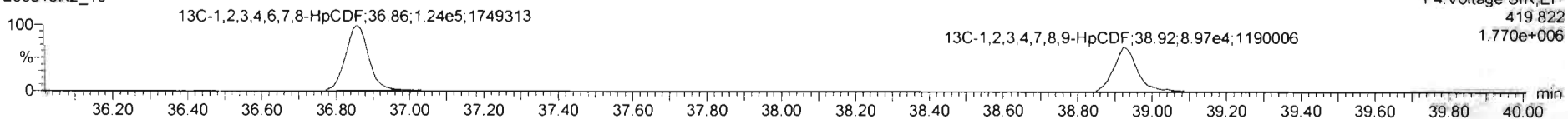


13C-1,2,3,4,6,7,8-HpCDF

200315R2_10

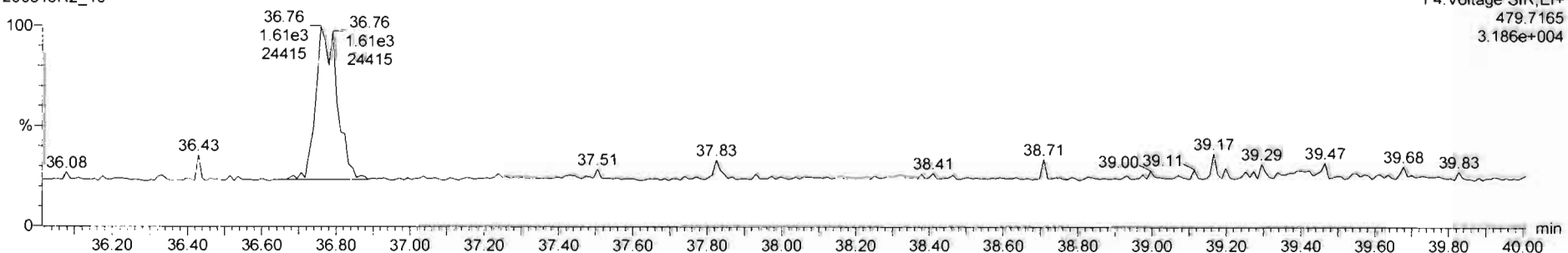


200315R2_10



DPE4

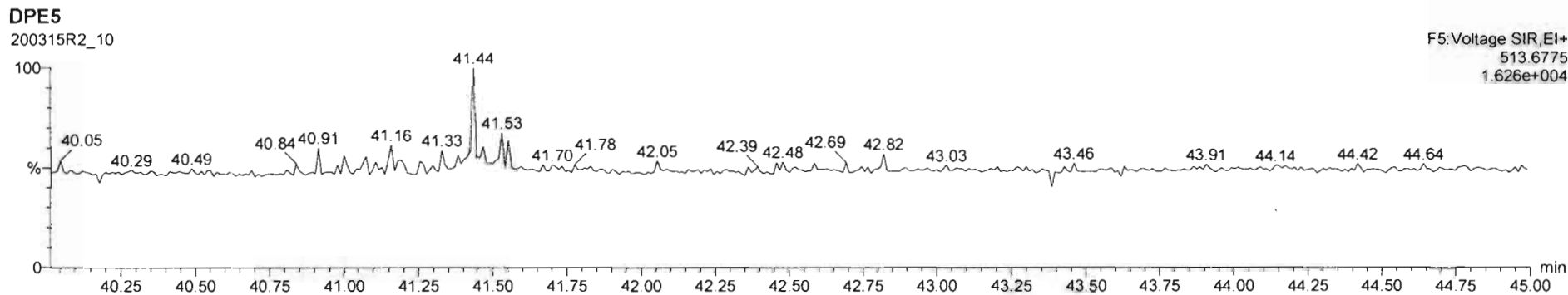
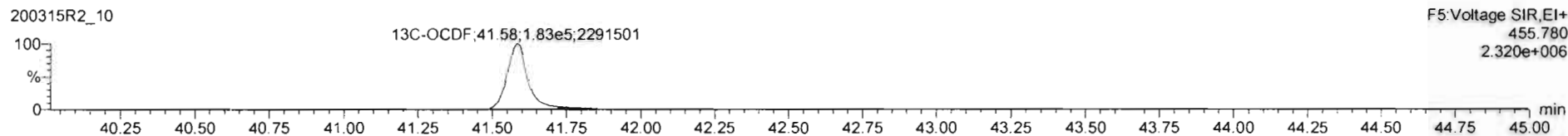
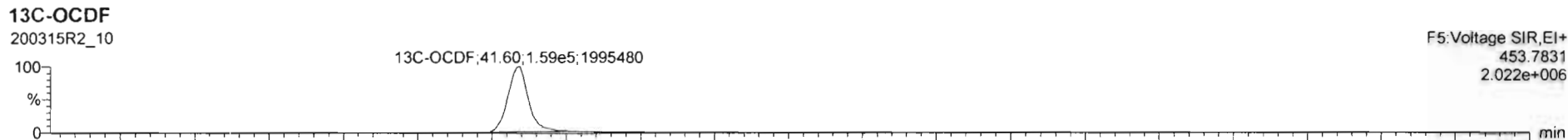
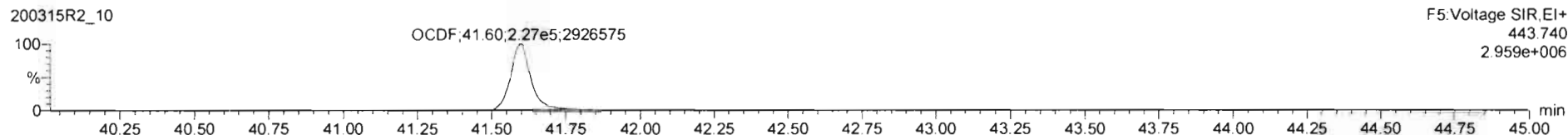
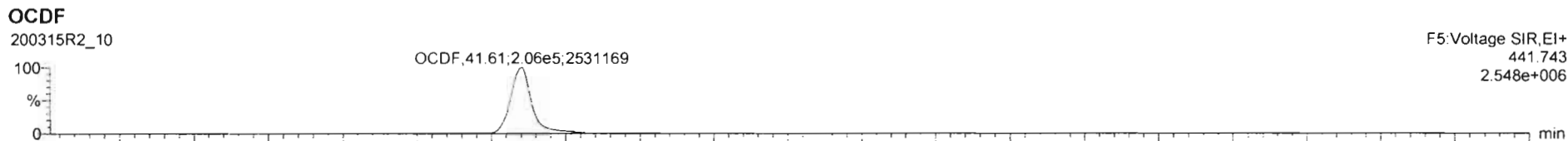
200315R2_10



Dataset: Untitled

Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time
Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:07:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

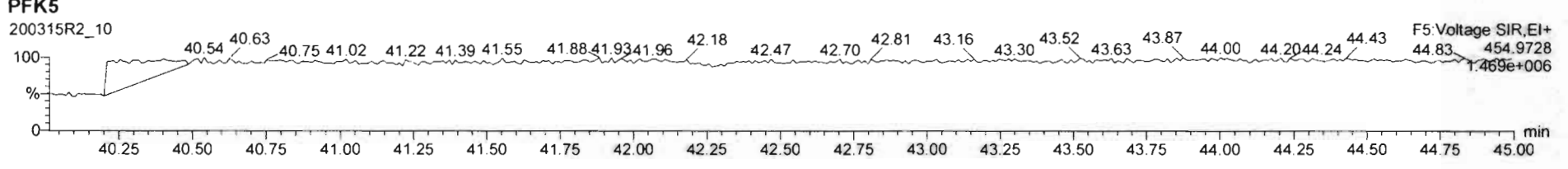
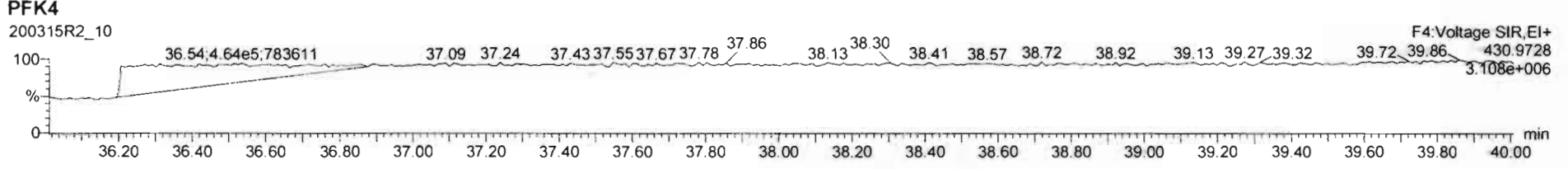
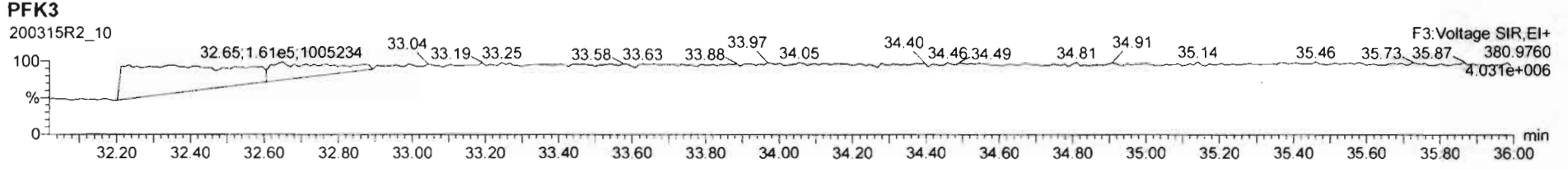
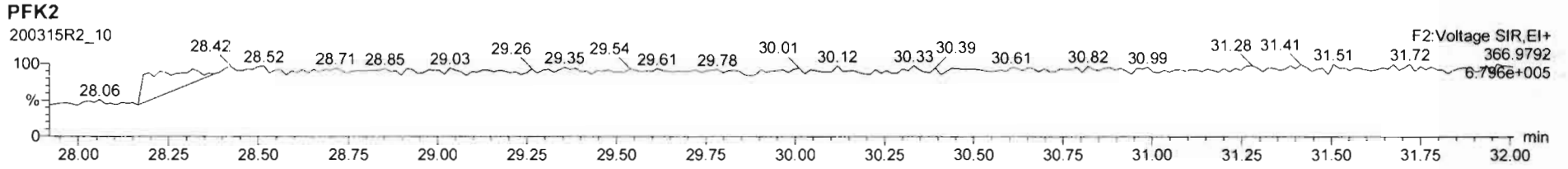
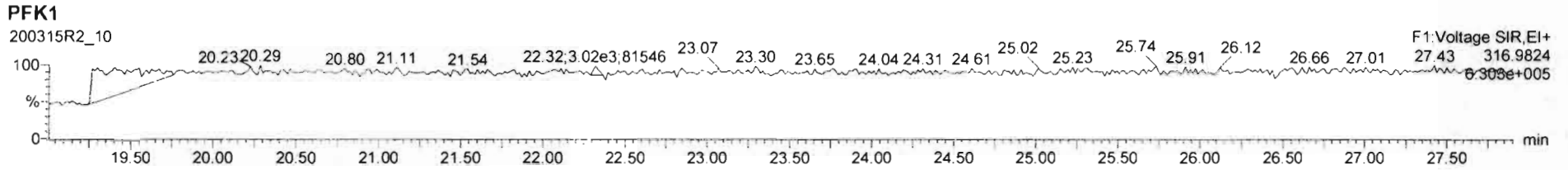


Dataset: Untitled

Last Altered: Monday, March 16, 2020 08:44:13 Pacific Daylight Time

Printed: Monday, March 16, 2020 08:51:00 Pacific Daylight Time

47:10:19 Name: 200315R2_10, Date: 16-Mar-2020, Time: 07:07:47, ID: 1903737-10RE1@2X PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015



Dataset: U:\VG12.PRO\Results\200229R2\200229R2-8.qld

Last Altered: Monday, March 09, 2020 15:57:41 Pacific Daylight Time

Printed: Monday, March 09, 2020 16:05:45 Pacific Daylight Time

dy 03-09-2020 07:03/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R2_8, Date: 01-Mar-2020, Time: 04:45:37, ID: 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

#	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	3857.147	0.541	YES	0.988	10.001	25.75	25.75	1.00	1.00	NO	0.3290		0.0671	0.3140
2	2 1,2,3,7,8-PeCDD	2782.974	0.780	YES	0.972	10.001	30.84	30.82	1.00	1.00	NO	0.3598		0.0574	0.3295
3	3 1,2,3,4,7,8-HxCDD	2596.958	1.248	NO	1.07	10.001	34.20	34.21	1.00	1.00	NO	0.4493		0.158	0.4493
4	4 1,2,3,6,7,8-HxCDD	19752.083	1.275	NO	0.921	10.001	34.30	34.31	1.00	1.00	NO	2.951		0.167	2.951
5	5 1,2,3,7,8,9-HxCDD	8117.994	1.166	NO	0.918	10.001	34.61	34.57	1.00	1.00	NO	1.414		0.197	1.414
6	6 1,2,3,4,6,7,8-HpCDD	444884.922	1.036	NO	0.923	10.001	38.08	38.09	1.00	1.00	NO	91.33		0.985	91.33
7	7 OCDD	5383469.7...	0.884	NO	0.975	10.001	41.20	41.21	1.00	1.00	NO	1195		0.872	1195
8	8 2,3,7,8-TCDF	140309.953	0.783	NO	0.802	10.001	24.80	24.81	1.00	1.00	NO	14.04 (12.7)		0.0686	14.04
9	9 1,2,3,7,8-PeCDF	192160.617	1.550	NO	0.907	10.001	29.53	29.52	1.00	1.00	NO	19.76		0.122	19.76
10	10 2,3,4,7,8-PeCDF	115123.055	1.548	NO	0.952	10.001	30.53	30.51	1.00	1.00	NO	11.67		0.113	11.67
11	11 1,2,3,4,7,8-HxCDF	243780.274	1.212	NO	0.862	10.001	33.33	33.35	1.00	1.00	NO	39.57		0.182	39.57
12	12 1,2,3,6,7,8-HxCDF	97227.645	1.191	NO	0.841	10.001	33.45	33.47	1.00	1.00	NO	13.96		0.175	13.96
13	13 2,3,4,6,7,8-HxCDF	24216.315	1.179	NO	0.898	10.001	34.05	34.03	1.00	1.00	NO	3.621		0.187	3.621
14	14 1,2,3,7,8,9-HxCDF	7328.673	1.214	NO	0.858	10.001	34.91	34.94	1.00	1.00	NO	1.321		0.269	1.321
15	15 1,2,3,4,6,7,8-HpCDF	219557.195	1.011	NO	0.851	10.001	36.68	36.66	1.00	1.00	NO	46.64		0.419	46.64
16	16 1,2,3,4,7,8,9-HpCDF	35825.114	0.994	NO	0.980	10.001	38.73	38.74	1.00	1.00	NO	9.239		0.537	9.239
17	17 OCDF	438669.703	0.898	NO	0.806	10.001	41.38	41.39	1.00	1.00	NO	103.1		0.259	103.1
18	18 13C-2,3,7,8-TCDD	2006638.4...	0.775	NO	1.20	10.001	25.71	25.72	1.03	1.03	NO	187.5	93.8	0.169	
19	19 13C-1,2,3,7,8-PeCDD	1590662.7...	0.633	NO	0.967	10.001	30.84	30.82	1.23	1.23	NO	184.3	92.2	0.256	
20	20 13C-1,2,3,4,7,8-HxCDD	1079355.9...	1.270	NO	0.874	10.001	34.19	34.19	1.01	1.01	NO	159.7	79.8	0.410	
21	21 13C-1,2,3,6,7,8-HxCDD	1453251.7...	1.270	NO	1.05	10.001	34.29	34.30	1.02	1.02	NO	179.6	89.8	0.343	
22	22 13C-1,2,3,7,8,9-HxCDD	1250055.3...	1.230	NO	0.974	10.001	34.60	34.57	1.03	1.03	NO	165.8	82.9	0.368	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1055292.1...	1.028	NO	0.747	10.001	38.17	38.07	1.13	1.13	NO	182.6	91.3	0.423	
24	24 13C-OCDD	1849104.4...	0.936	NO	0.707	10.001	41.07	41.20	1.22	1.22	NO	338.3	84.6	0.412	
25	25 13C-2,3,7,8-TCDF	2492121.2...	0.784	NO	1.07	10.001	24.89	24.78	0.99	0.99	NO	191.4	95.7	0.224	
26	26 13C-1,2,3,7,8-PeCDF	2143107.9...	1.557	NO	1.00	10.001	29.47	29.51	1.18	1.18	NO	175.1	87.5	0.449	
27	27 13C-2,3,4,7,8-PeCDF	2072911.5...	1.551	NO	0.962	10.001	30.44	30.50	1.21	1.22	NO	176.4	88.2	0.468	
28	28 13C-1,2,3,4,7,8-HxCDF	1428645.1...	0.515	NO	1.05	10.001	33.32	33.33	0.99	0.99	NO	176.0	88.0	0.526	
29	29 13C-1,2,3,6,7,8-HxCDF	1655316.0...	0.516	NO	1.19	10.001	33.42	33.44	0.99	0.99	NO	179.8	89.9	0.464	
30	30 13C-2,3,4,6,7,8-HxCDF	1488954.7...	0.497	NO	1.07	10.001	34.03	34.02	1.01	1.01	NO	180.5	90.3	0.518	
31	31 13C-1,2,3,7,8,9-HxCDF	1293741.0...	0.502	NO	0.922	10.001	34.93	34.91	1.04	1.04	NO	181.3	90.7	0.599	

Dataset: U:\VG12.PRO\Results\200229R2\200229R2-8.qld

Last Altered: Monday, March 09, 2020 15:57:41 Pacific Daylight Time

Printed: Monday, March 09, 2020 16:05:45 Pacific Daylight Time

Name: 200229R2_8, Date: 01-Mar-2020, Time: 04:45:37, ID: 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1106013.9...	0.443	NO	0.767	10.001	36.69	36.64	1.09	1.09	NO	186.4	93.2	0.608	
33	33 13C-1,2,3,4,7,8,9-HpCDF	791272.625	0.434	NO	0.552	10.001	38.71	38.73	1.15	1.15	NO	185.2	92.6	0.845	
34	34 13C-OCDF	2112086.5...	0.843	NO	0.789	10.001	41.31	41.38	1.23	1.23	NO	345.9	86.5	0.418	
35	35 37Cl-2,3,7,8-TCDD	710512.500			1.18	10.001	25.74	25.75	1.03	1.03	NO	67.66	84.6	0.0478	
36	36 13C-1,2,3,4-TCDD	1785199.0...	0.790	NO	1.00	10.001	25.11	25.06	1.00	1.00	NO	200.0	100	0.202	
37	37 13C-1,2,3,4-TCDF	2443956.7...	0.789	NO	1.00	10.001	23.37	23.28	1.00	1.00	NO	200.0	100	0.239	
38	38 13C-1,2,3,4,6,9-HxCDF	1546924.4...	0.512	NO	1.00	10.001	33.71	33.72	1.00	1.00	NO	200.0	100	0.552	
39	39 Total Tetra-Dioxins				0.988	10.001	24.62		0.00		NO	3.057		0.0671	3.610
40	40 Total Penta-Dioxins				0.972	10.001	29.96		0.00		NO	3.838		0.0574	4.404
41	41 Total Hexa-Dioxins				0.921	10.001	33.63		0.00		NO	27.64		0.182	27.64
42	42 Total Hepta-Dioxins				0.923	10.001	37.64		0.00		NO	208.3		0.985	208.3
43	43 Total Tetra-Furans				0.802	10.001	23.61		0.00		NO	44.38		0.0686	47.67
44	44 1st Func. Penta-Furans				0.907	10.001	27.09		0.00		NO	10.62		0.0304	10.62
45	45 Total Penta-Furans				0.907	10.001	29.27		0.00		NO	58.01		0.120	58.01
46	46 Total Hexa-Furans				0.898	10.001	33.56		0.00		NO	100.1		0.193	100.1
47	47 Total Hepta-Furans				0.851	10.001	37.83		0.00		NO	145.2		0.502	145.2

Dataset: U:\VG12.PRO\Results\200229R2\200229R2-8.qld

Last Altered: Monday, March 09, 2020 15:57:41 Pacific Daylight Time
 Printed: Monday, March 09, 2020 16:07:30 Pacific Daylight Time

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

Name: 200229R2_8, Date: 01-Mar-2020, Time: 04:45:37, ID: 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	1 2,3,7,8-TCDD	3.86e3	2.01e6	0.541	YES	25.75	25.75	0.0000	0.3140
2	39 Total Tetra-Dioxins	2.64e3	2.01e6	0.742	NO	24.62	25.48	0.2661	0.2661
3	39 Total Tetra-Dioxins	9.14e2	2.01e6	0.867	NO	24.62	25.02	0.09223	0.09223
4	39 Total Tetra-Dioxins	0.00e0	2.01e6	0.625	YES	24.62	24.64	0.0000	0.05896
5	39 Total Tetra-Dioxins	0.00e0	2.01e6	0.909	YES	24.62	23.94	0.0000	0.1801
6	39 Total Tetra-Dioxins	1.69e3	2.01e6	0.882	NO	24.62	23.75	0.1707	0.1707
7	39 Total Tetra-Dioxins	1.95e3	2.01e6	0.773	NO	24.62	23.48	0.1964	0.1964
8	39 Total Tetra-Dioxins	1.21e3	2.01e6	0.768	NO	24.62	22.50	0.1218	0.1218
9	39 Total Tetra-Dioxins	2.36e3	2.01e6	0.824	NO	24.62	22.01	0.2378	0.2378
10	39 Total Tetra-Dioxins	1.88e4	2.01e6	0.782	NO	24.62	21.60	1.900	1.900
11	39 Total Tetra-Dioxins	7.16e2	2.01e6	0.832	NO	24.62	26.09	0.07220	0.07220

Penta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.59e6	0.464	YES	29.96	31.23	0.0000	0.09445
2	2 1,2,3,7,8-PeCDD	2.78e3	1.59e6	0.780	YES	30.84	30.82	0.0000	0.3295
3	40 Total Penta-Dioxins	5.68e2	1.59e6	0.642	NO	29.96	30.39	0.07343	0.07343
4	40 Total Penta-Dioxins	4.30e3	1.59e6	0.587	NO	29.96	30.06	0.5560	0.5560
5	40 Total Penta-Dioxins	2.11e3	1.59e6	0.632	NO	29.96	29.81	0.2731	0.2731
6	40 Total Penta-Dioxins	3.11e3	1.59e6	0.606	NO	29.96	29.74	0.4017	0.4017
7	40 Total Penta-Dioxins	7.65e3	1.59e6	0.606	NO	29.96	29.57	0.9887	0.9887
8	40 Total Penta-Dioxins	2.86e3	1.59e6	0.550	NO	29.96	29.05	0.3698	0.3698
9	40 Total Penta-Dioxins	9.09e3	1.59e6	0.663	NO	29.96	28.56	1.176	1.176
10	40 Total Penta-Dioxins	0.00e0	1.59e6	0.665	NO	29.96	30.87	0.0000	0.1418

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R2\200229R2-8.qld

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Name: 200229R2_8, Date: 01-Mar-2020, Time: 04:45:37, ID: 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

Hexa-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	8.12e3	1.25e6	1.166	NO	34.61	34.57	1.414	1.414
2	41 Total Hexa-Dioxins	1.74e3	0.00e0	1.347	NO	33.63	34.48	0.2988	0.2988
3	4 1,2,3,6,7,8-HxCDD	1.98e4	1.45e6	1.275	NO	34.30	34.31	2.951	2.951
4	3 1,2,3,4,7,8-HxCDD	2.60e3	1.08e6	1.248	NO	34.20	34.21	0.4493	0.4493
5	41 Total Hexa-Dioxins	6.72e4	0.00e0	1.230	NO	33.63	33.53	11.57	11.57
6	41 Total Hexa-Dioxins	6.91e3	0.00e0	1.120	NO	33.63	33.28	1.189	1.189
7	41 Total Hexa-Dioxins	5.68e4	0.00e0	1.248	NO	33.63	32.73	9.772	9.772

Hepta-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	4.45e5	1.06e6	1.036	NO	38.08	38.09	91.33	91.33
2	42 Total Hepta-Dioxins	5.70e5	1.06e6	1.016	NO	37.64	37.04	117.0	117.0

Vista Analytical Laboratory

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Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	0.00e0	2.49e6	0.984	YES	23.61	23.03	0.0000	0.1291
2	43 Total Tetra-Furans	1.60e3	2.49e6	0.876	NO	23.61	22.86	0.1598	0.1598
3	43 Total Tetra-Furans	7.40e3	2.49e6	0.759	NO	23.61	22.38	0.7403	0.7403
4	43 Total Tetra-Furans	0.00e0	2.49e6	0.901	YES	23.61	22.17	0.0000	0.1330
5	43 Total Tetra-Furans	1.96e4	2.49e6	0.733	NO	23.61	22.04	1.961	1.961
6	43 Total Tetra-Furans	4.49e4	2.49e6	0.766	NO	23.61	21.57	4.488	4.488
7	43 Total Tetra-Furans	0.00e0	2.49e6	0.828	NO	23.61	21.19	0.0000	0.7696
8	43 Total Tetra-Furans	2.03e4	2.49e6	0.775	NO	23.61	20.63	2.035	2.035
9	43 Total Tetra-Furans	4.36e3	2.49e6	0.804	NO	23.61	20.09	0.4358	0.4358
10	43 Total Tetra-Furans	1.60e3	2.49e6	0.728	NO	23.61	19.54	0.1603	0.1603
11	43 Total Tetra-Furans	0.00e0	2.49e6	0.987	YES	23.61	26.89	0.0000	1.554
12	43 Total Tetra-Furans	0.00e0	2.49e6	0.941	YES	23.61	26.60	0.0000	0.2316
13	43 Total Tetra-Furans	0.00e0	2.49e6	1.038	YES	23.61	26.41	0.0000	0.1397
14	43 Total Tetra-Furans	1.33e3	2.49e6	0.751	NO	23.61	25.47	0.1335	0.1335
15	43 Total Tetra-Furans	7.21e3	2.49e6	0.841	NO	23.61	25.20	0.7215	0.7215
16	8 2,3,7,8-TCDF	1.40e5	2.49e6	0.783	NO	24.80	24.81	14.04	14.04
17	43 Total Tetra-Furans	1.78e4	2.49e6	0.663	NO	23.61	24.69	1.777	1.777
18	43 Total Tetra-Furans	0.00e0	2.49e6	0.355	YES	23.61	24.55	0.0000	0.06022
19	43 Total Tetra-Furans	1.86e3	2.49e6	0.827	NO	23.61	24.36	0.1863	0.1863
20	43 Total Tetra-Furans	6.51e3	2.49e6	0.722	NO	23.61	24.13	0.6509	0.6509
21	43 Total Tetra-Furans	1.33e5	2.49e6	0.745	NO	23.61	23.82	13.28	13.28
22	43 Total Tetra-Furans	2.53e4	2.49e6	0.774	NO	23.61	23.30	2.531	2.531
23	43 Total Tetra-Furans	1.08e4	2.49e6	0.749	NO	23.61	23.18	1.086	1.086
24	43 Total Tetra-Furans	0.00e0	2.49e6	0.633	YES	23.61	21.14	0.0000	0.2714

Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	1.02e5	0.00e0	1.549	NO	27.09	26.89	10.62	10.62

Dataset: U:\VG12.PRO\Results\200229R2\200229R2-8.qld

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Name: 200229R2_8, Date: 01-Mar-2020, Time: 04:45:37, ID: 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	2.43e4	0.00e0	1.517	NO	29.27	29.32	2.539	2.539
2	45 Total Penta-Furans	2.34e4	0.00e0	1.601	NO	29.27	29.11	2.443	2.443
3	45 Total Penta-Furans	1.22e5	0.00e0	1.543	NO	29.27	28.52	12.73	12.73
4	45 Total Penta-Furans	5.34e3	0.00e0	1.325	NO	29.27	28.36	0.5582	0.5582
5	45 Total Penta-Furans	6.07e3	0.00e0	1.377	NO	29.27	31.46	0.6345	0.6345
6	10 2,3,4,7,8-PeCDF	1.15e5	2.07e6	1.548	NO	30.53	30.51	11.67	11.67
7	45 Total Penta-Furans	1.76e3	0.00e0	1.510	NO	29.27	30.39	0.1843	0.1843
8	45 Total Penta-Furans	7.17e4	0.00e0	1.576	NO	29.27	29.80	7.491	7.491
9	9 1,2,3,7,8-PeCDF	1.92e5	2.14e6	1.550	NO	29.53	29.52	19.76	19.76

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	7.33e3	1.29e6	1.214	NO	34.91	34.94	1.321	1.321
2	13 2,3,4,6,7,8-HxCDF	2.42e4	1.49e6	1.179	NO	34.05	34.03	3.621	3.621
3	46 Total Hexa-Furans	6.92e3	0.00e0	1.230	NO	33.56	33.73	1.050	1.050
4	12 1,2,3,6,7,8-HxCDF	9.72e4	1.66e6	1.191	NO	33.45	33.47	13.96	13.96
5	11 1,2,3,4,7,8-HxCDF	2.44e5	1.43e6	1.212	NO	33.33	33.35	39.57	39.57
6	46 Total Hexa-Furans	4.37e3	0.00e0	1.207	NO	33.56	33.24	0.6631	0.6631
7	46 Total Hexa-Furans	1.13e5	0.00e0	1.201	NO	33.56	32.89	17.17	17.17
8	46 Total Hexa-Furans	2.05e3	0.00e0	1.144	NO	33.56	32.70	0.3115	0.3115
9	46 Total Hexa-Furans	9.58e4	0.00e0	1.197	NO	33.56	32.35	14.54	14.54
10	46 Total Hexa-Furans	3.11e4	0.00e0	1.198	NO	33.56	32.18	4.717	4.717
11	46 Total Hexa-Furans	2.07e4	0.00e0	1.210	NO	33.56	34.97	3.146	3.146

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	3.58e4	7.91e5	0.994	NO	38.73	38.74	9.239	9.239
2	47 Total Hepta-Furans	3.58e5	0.00e0	0.970	NO	37.83	37.25	88.70	88.70
3	47 Total Hepta-Furans	2.46e3	0.00e0	0.980	NO	37.83	37.03	0.6090	0.6090
4	15 1,2,3,4,6,7,8-HpCDF	2.20e5	1.11e6	1.011	NO	36.68	36.66	46.64	46.64

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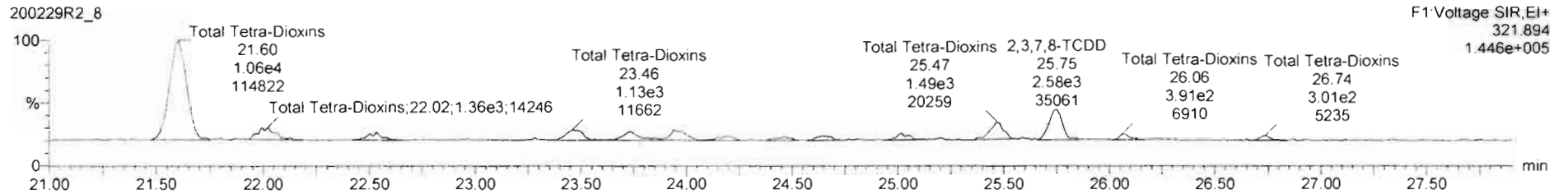
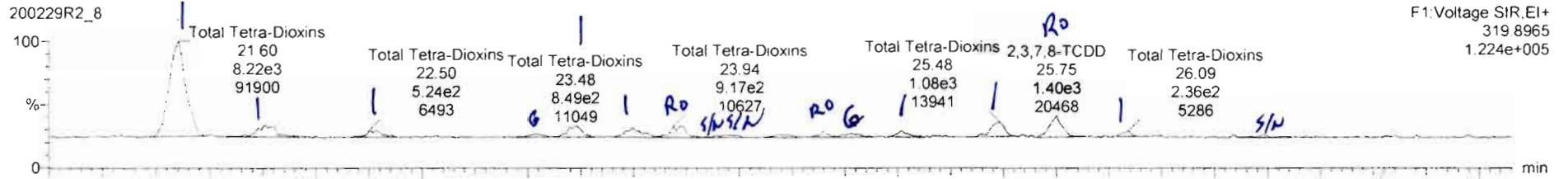
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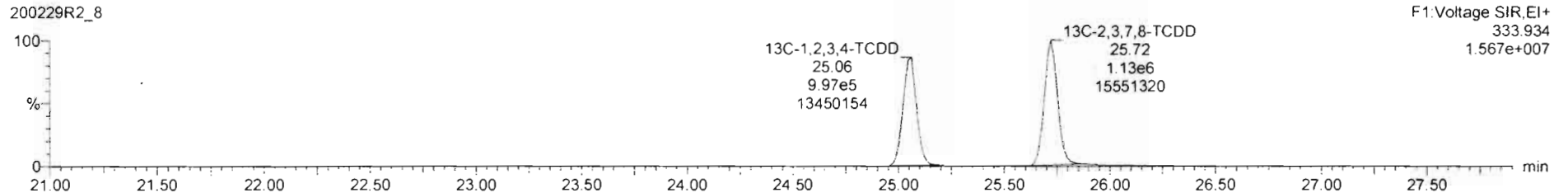
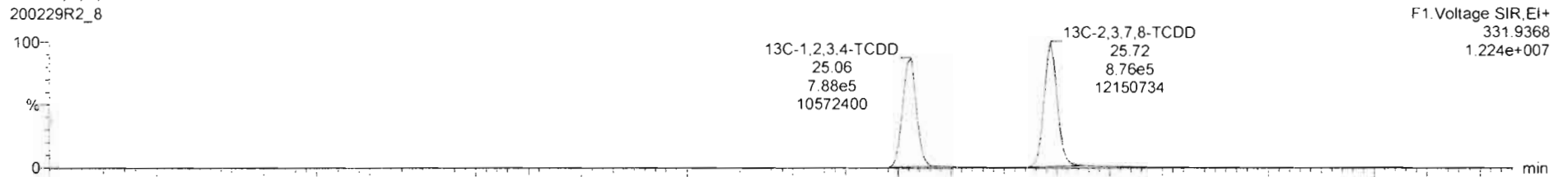
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2,3,7,8-TCDD



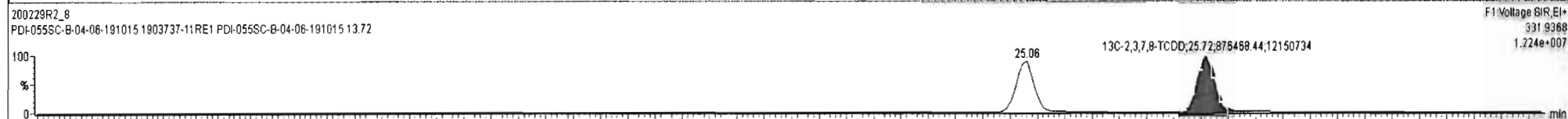
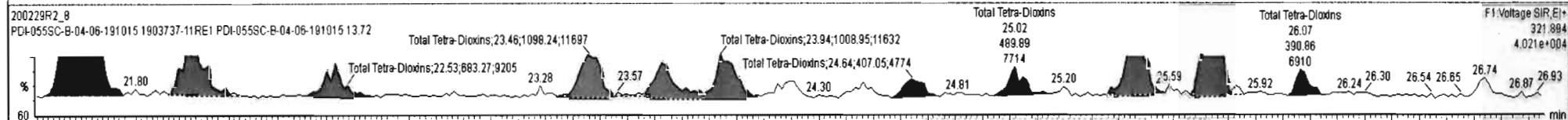
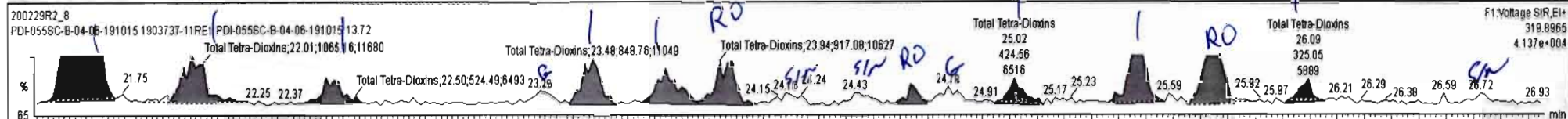
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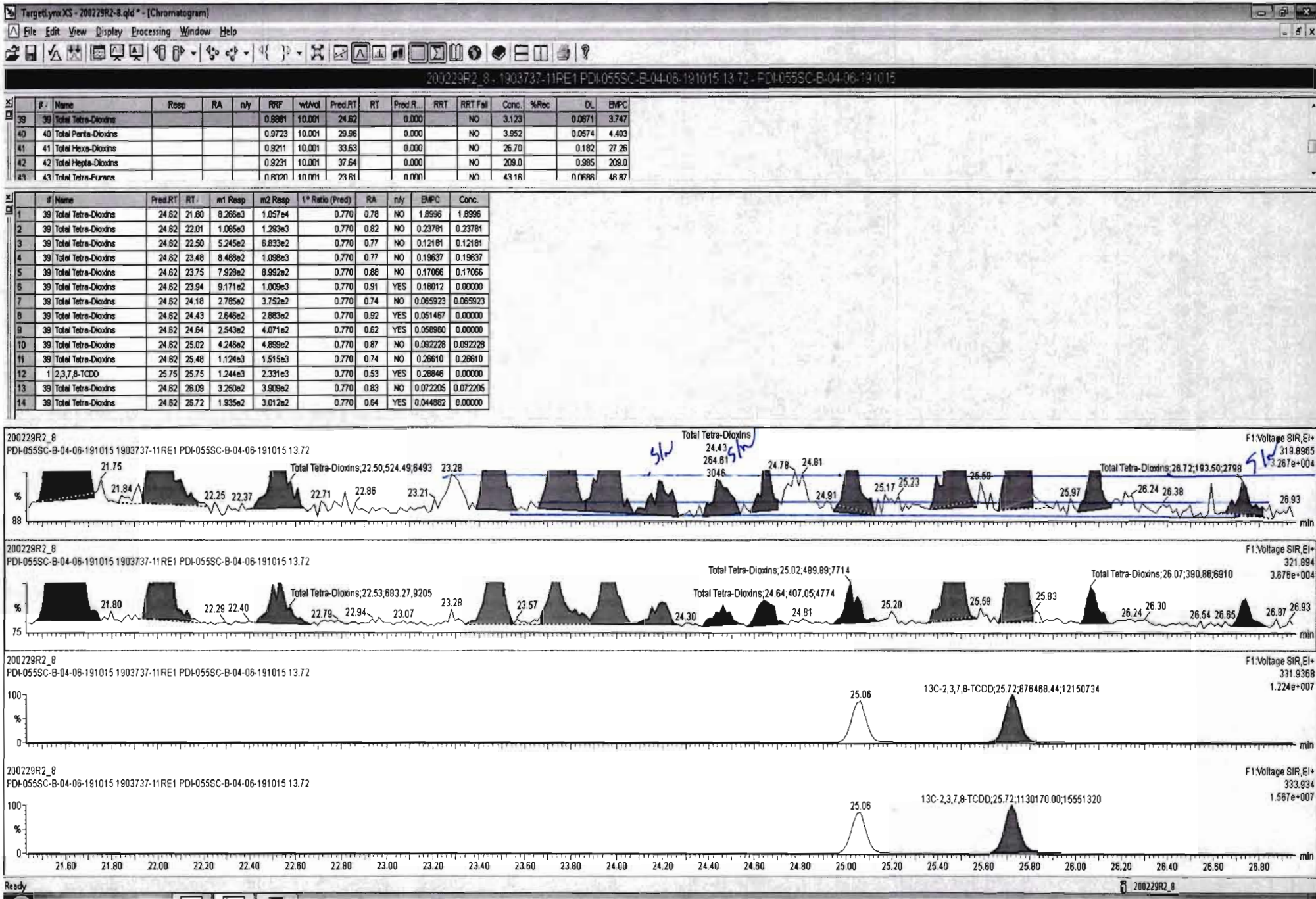


200229R2_8 - 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72 - PDI-055SC-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	wt/rd	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9961	10.001	24.62		0.000		NO	3.057		0.0671	3.610
40	Total Penta-Dioxins				0.9723	10.001	29.96		0.000		NO	3.952		0.0574	4.403
41	Total Hexa-Dioxins				0.9211	10.001	33.63		0.000		NO	26.70		0.182	27.26
42	Total Hepta-Dioxins				0.9231	10.001	37.64		0.000		NO	209.0		0.985	209.0
43	Total Tetra-Furans				0.8020	10.001	23.61		0.000		NO	43.15		0.0686	46.87

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	21.80	8.266e3	1.057e4	0.770	0.78	NO	1.8996	1.8996
2	39 Total Tetra-Dioxins	24.62	22.01	1.065e3	1.293e3	0.770	0.82	NO	0.23781	0.23781
3	39 Total Tetra-Dioxins	24.62	22.50	5.245e2	6.833e2	0.770	0.77	NO	0.12181	0.12181
4	39 Total Tetra-Dioxins	24.62	23.48	8.489e2	1.098e3	0.770	0.77	NO	0.19637	0.19637
5	39 Total Tetra-Dioxins	24.62	23.75	7.929e2	8.992e2	0.770	0.88	NO	0.17066	0.17066
6	39 Total Tetra-Dioxins	24.62	23.94	9.171e2	1.009e3	0.770	0.91	YES	0.18012	0.00000
7	39 Total Tetra-Dioxins	24.62	24.64	2.543e2	4.071e2	0.770	0.62	YES	0.056980	0.00000
8	39 Total Tetra-Dioxins	24.62	25.02	4.246e2	4.899e2	0.770	0.87	NO	0.092228	0.092228
9	39 Total Tetra-Dioxins	24.62	25.48	1.124e3	1.515e3	0.770	0.74	NO	0.26610	0.26610
10	1 2,3,7,8-TCDD	25.75	25.75	1.354e3	2.503e3	0.770	0.54	YES	0.31398	0.00000
11	39 Total Tetra-Dioxins	24.62	26.09	3.250e2	3.809e2	0.770	0.83	NO	0.072205	0.072205





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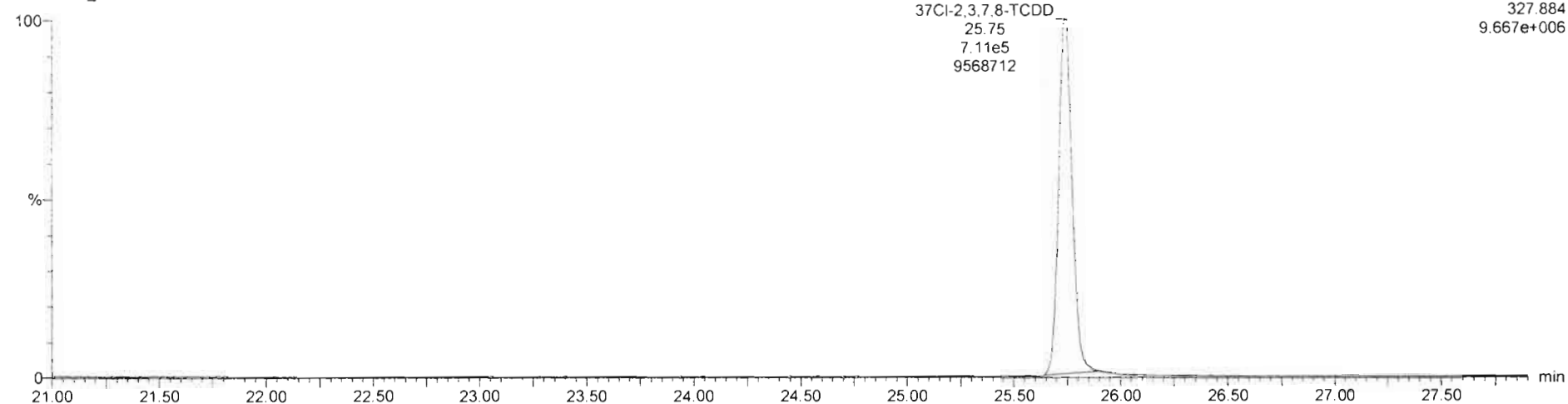
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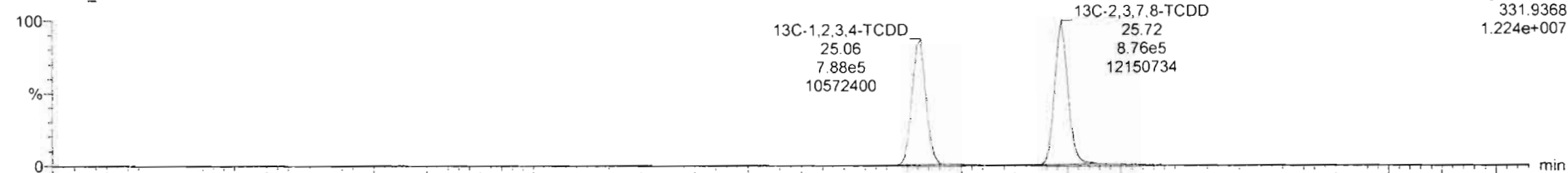
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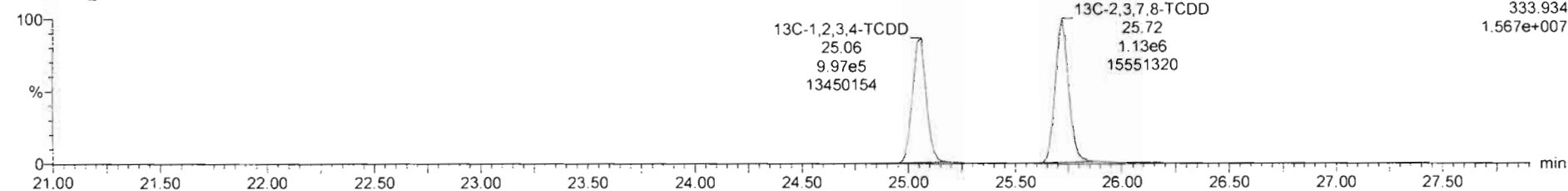


13C-1,2,3,4-TCDD

200229R2_8



200229R2_8



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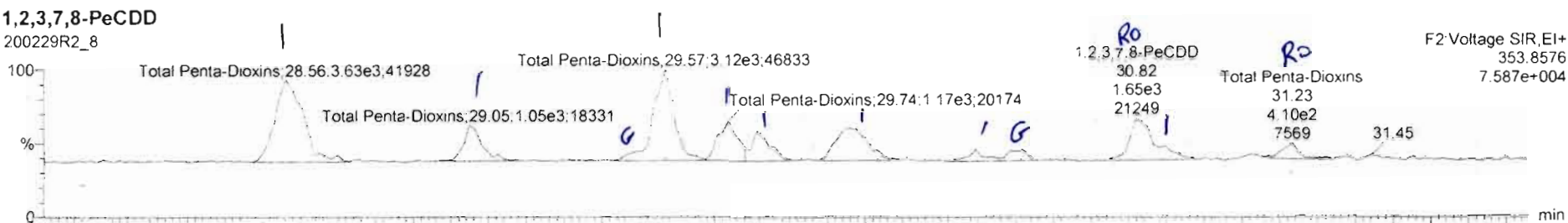
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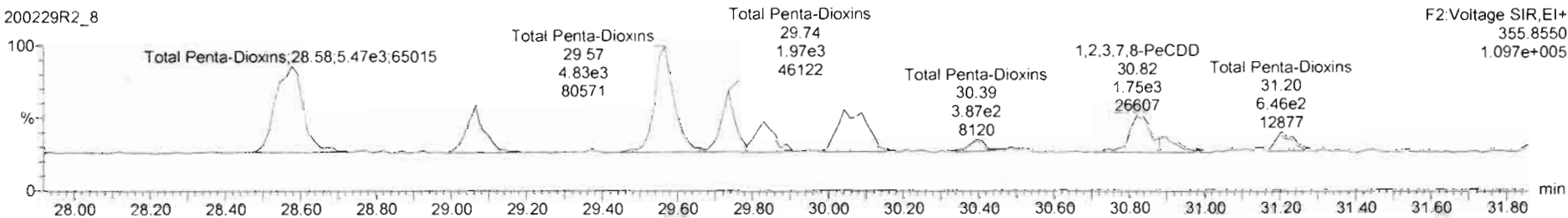
1,2,3,7,8-PeCDD

200229R2_8



F2: Voltage SIR, EI+
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7.587e+004

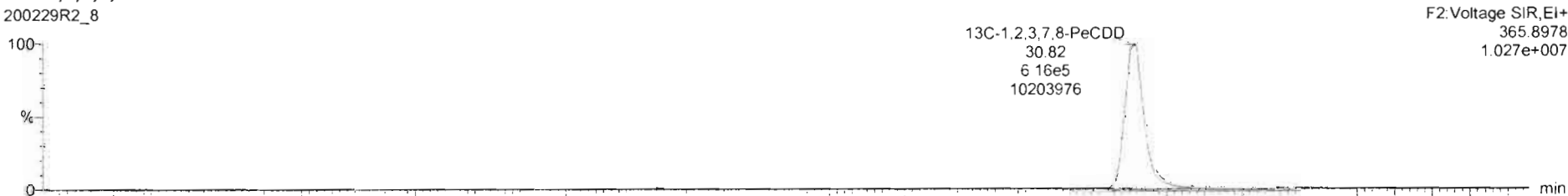
200229R2_8



F2: Voltage SIR, EI+
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1.097e+005

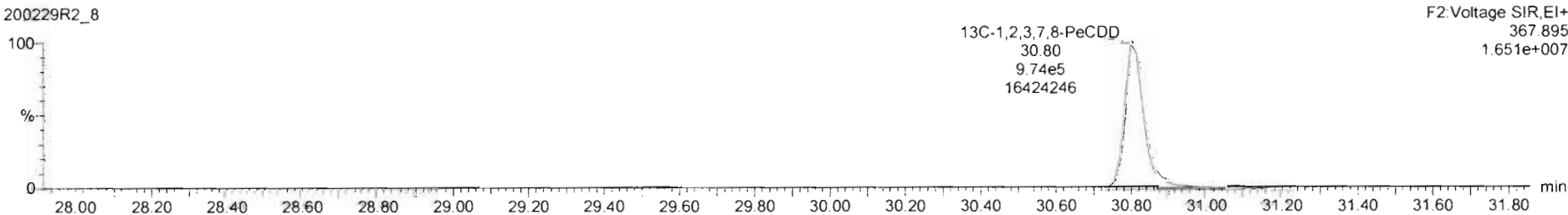
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200229R2_8



F2: Voltage SIR, EI+
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1.027e+007

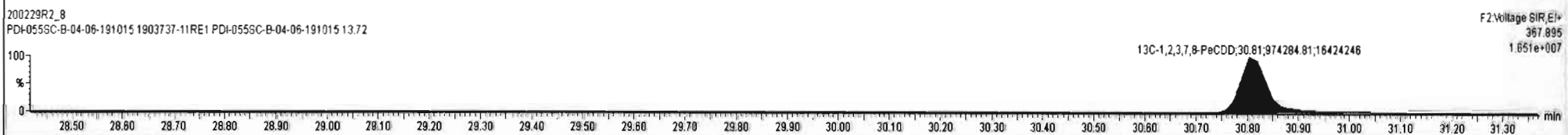
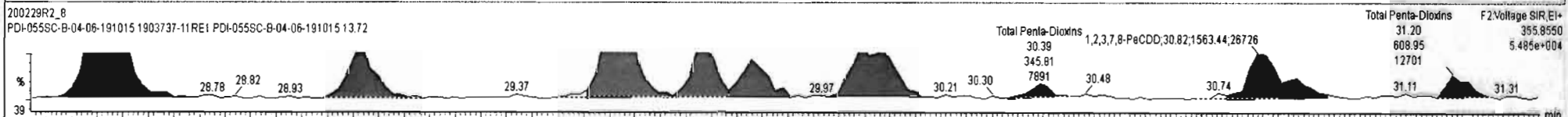
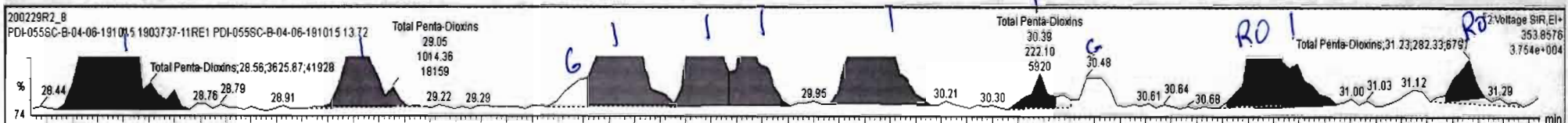
200229R2_8



F2: Voltage SIR, EI+
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1.651e+007

#	Name	Resp	RA	n/y	R/R	wt/Vol	Pred_RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9861	10.001	24.62		0.000		NO	3.057		0.0671	3.610
40	Total Penta-Dioxins				0.9723	10.001	29.96		0.000		NO	3.838		0.0574	4.404
41	Total Hexa-Dioxins				0.9211	10.001	33.63		0.000		NO	26.70		0.182	27.26
42	Total Hepta-Dioxins				0.9231	10.001	37.64		0.000		NO	209.0		0.985	209.0
43	Total Tetra-Furans				0.8020	10.001	23.61		0.000		NO	43.16		0.0686	46.87

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	28.56	3.626e3	5.469e3	0.630	0.66	NO	1.1759	1.1759
2	40 Total Penta-Dioxins	29.96	29.05	1.014e3	1.846e3	0.630	0.55	NO	0.36978	0.36978
3	40 Total Penta-Dioxins	29.96	29.57	2.886e3	4.761e3	0.630	0.61	NO	0.98867	0.98867
4	40 Total Penta-Dioxins	29.96	29.74	1.172e3	1.934e3	0.630	0.61	NO	0.40167	0.40167
5	40 Total Penta-Dioxins	29.96	29.81	8.174e2	1.294e3	0.630	0.63	NO	0.27305	0.27305
6	40 Total Penta-Dioxins	29.96	30.06	1.590e3	2.710e3	0.630	0.59	NO	0.55601	0.55601
7	40 Total Penta-Dioxins	29.96	30.39	2.221e2	3.458e2	0.630	0.64	NO	0.073430	0.073430
8	2 1,2,3,7,8-PeCDD	30.84	30.82	1.220e3	1.563e3	0.630	0.78	YES	0.32951	0.00000
9	40 Total Penta-Dioxins	29.96	30.87	4.362e2	6.586e2	0.630	0.67	NO	0.14182	0.00000
10	40 Total Penta-Dioxins	28.96	31.23	2.823e2	6.090e2	0.630	0.46	YES	0.094450	0.00000



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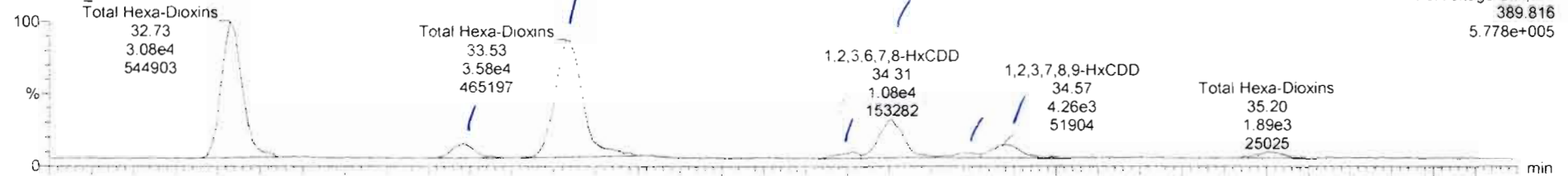
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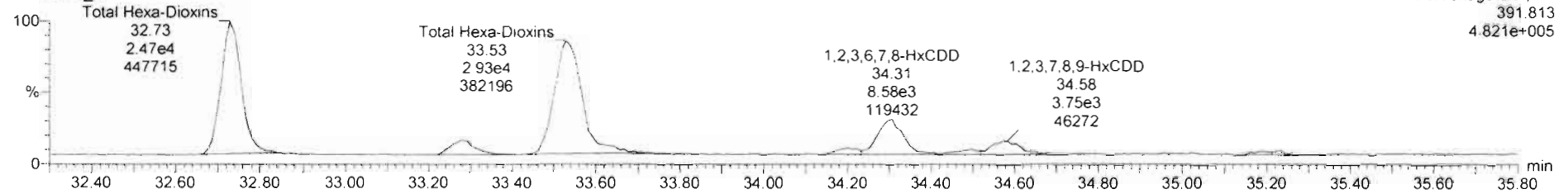
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1,2,3,4,7,8-HxCDD

200229R2_8

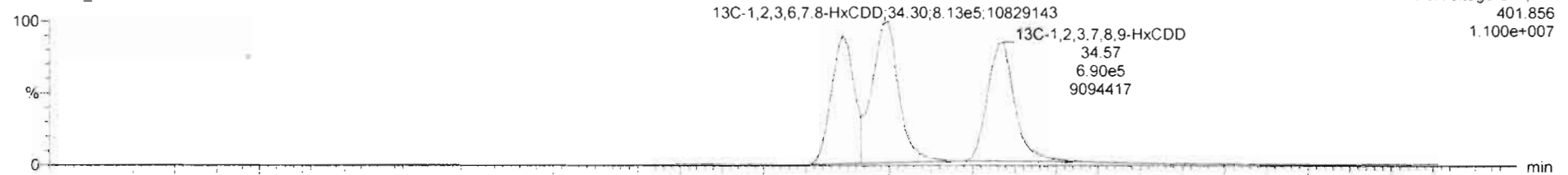


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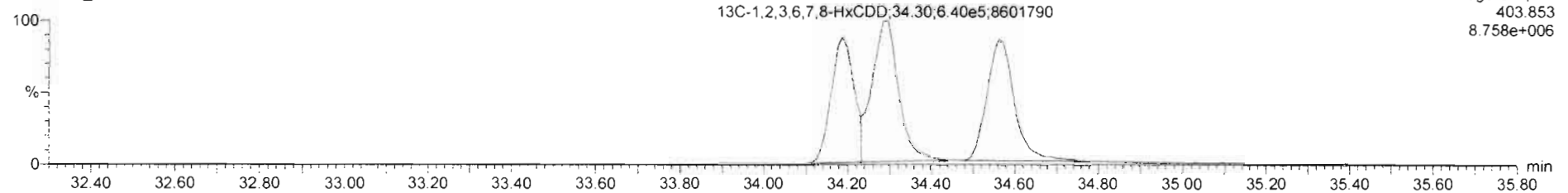


13C-1,2,3,4,7,8-HxCDD

200229R2_8



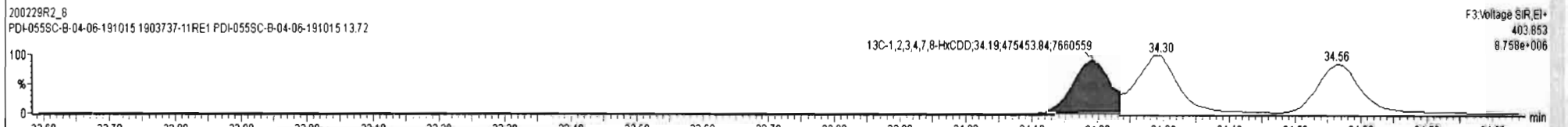
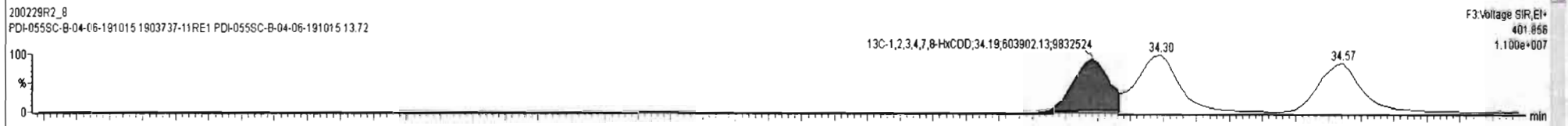
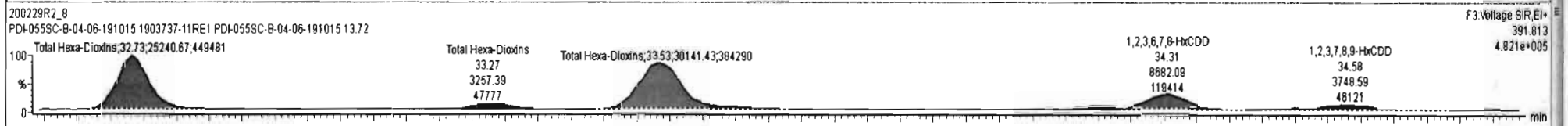
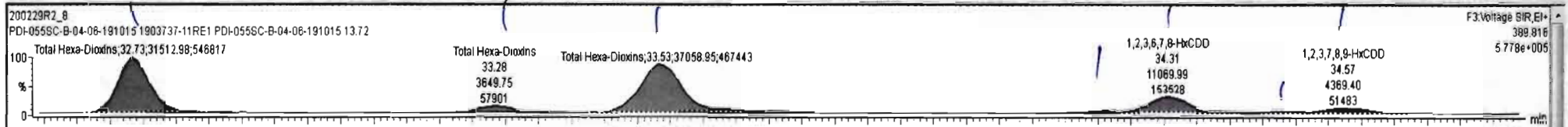
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200229R2_8 - 1903737-11RE1 PDI-0555C-B-04-06-191015 13.72 - PDI-0555C-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred_RT	RT	Pred_R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9861	10.001	24.62		0.000		NO	3.057		0.0671	3.610
40	Total Penta-Dioxins				0.9723	10.001	29.96		0.000		NO	3.638		0.0574	4.404
41	Total Hexa-Dioxins				0.8211	10.001	33.63		0.000		NO	27.64		0.182	27.64
42	Total Hepta-Dioxins				0.9231	10.001	37.64		0.000		NO	209.0		0.985	209.0
43	Total Tetra-Furans				0.8020	10.001	23.61		0.000		NO	43.16		0.0686	46.87

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.73	3.151e4	2.524e4	1.240	1.25	NO	9.7716	9.7716
2	41 Total Hexa-Dioxins	33.63	33.28	3.650e3	3.257e3	1.240	1.12	NO	1.1892	1.1892
3	41 Total Hexa-Dioxins	33.63	33.53	3.708e4	3.014e4	1.240	1.23	NO	11.570	11.570
4	3 1,2,3,4,7,8-HxCDD	34.20	34.21	1.442e3	1.155e3	1.240	1.25	NO	0.44933	0.44933
5	4 1,2,3,6,7,8-HxCDD	34.30	34.31	1.107e4	8.682e3	1.240	1.27	NO	2.9507	2.9507
6	41 Total Hexa-Dioxins	33.63	34.48	9.962e2	7.383e2	1.240	1.35	NO	0.29881	0.29881
7	5 1,2,3,7,8,9-HxCDD	34.61	34.57	4.369e3	3.749e3	1.240	1.17	NO	1.4143	1.4143



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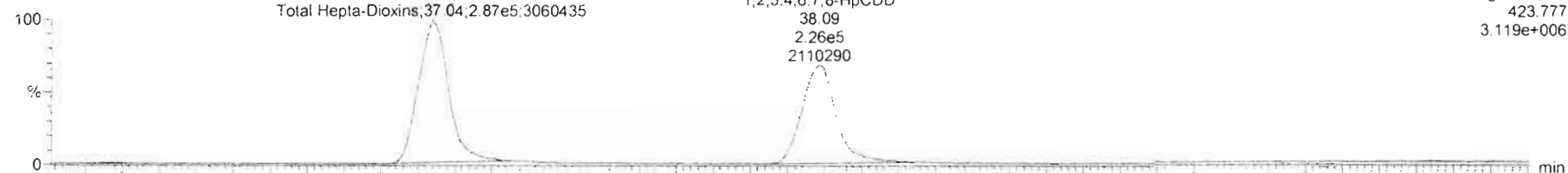
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Name: 200229R2_8, Date: 01-Mar-2020, Time: 04:45:37, ID: 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

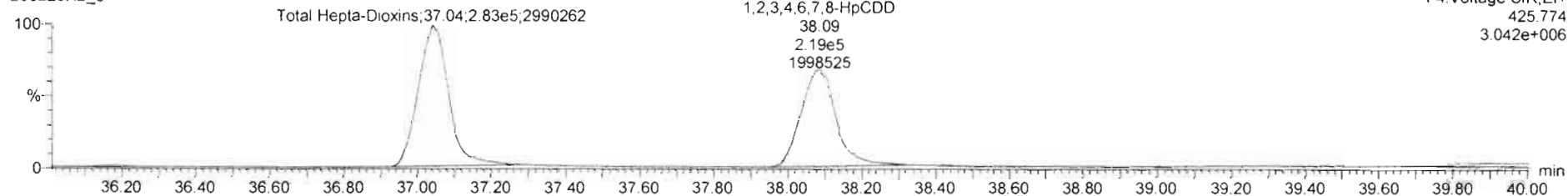
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200229R2_8



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3.119e+006

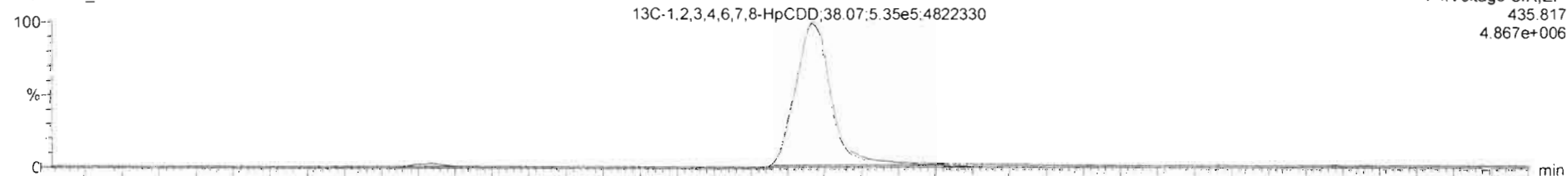
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3.042e+006

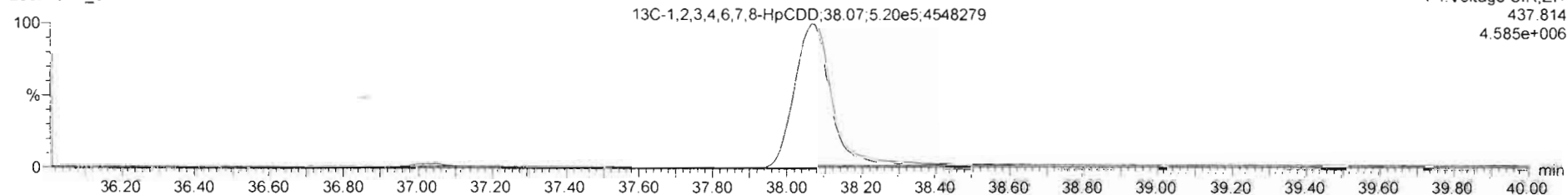
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200229R2_8



F4: Voltage SIR, EI+
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4.867e+006

200229R2_8

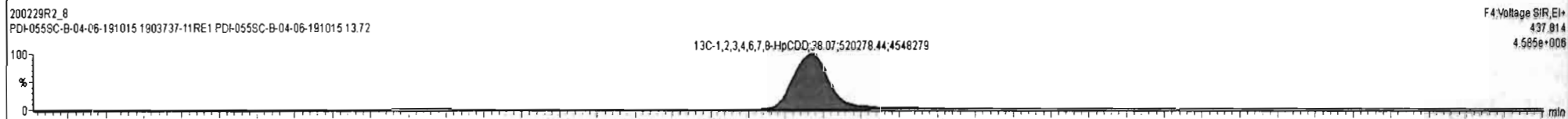
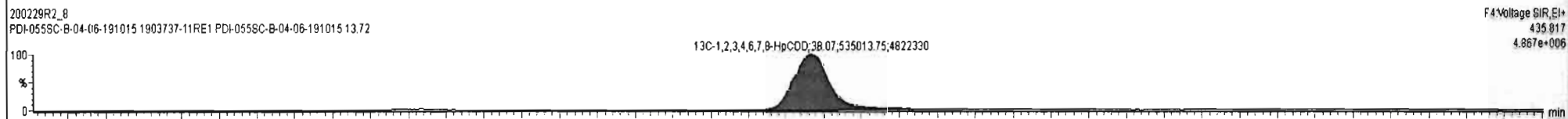
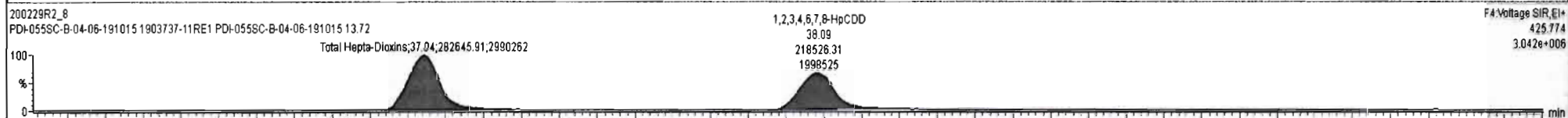
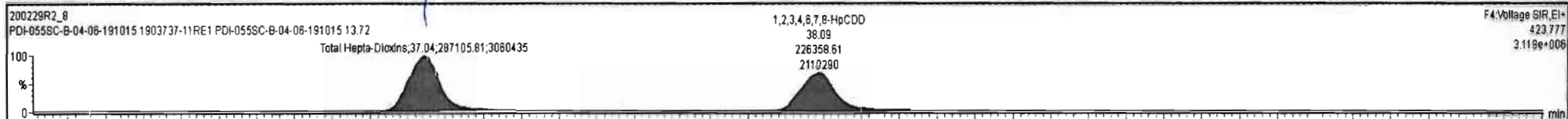


F4: Voltage SIR, EI+
437.814
4.585e+006

200229R2_8 - 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72 - PDI-055SC-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9861	10.001	24.62		0.000		NO	3.057		0.0671	3.610
40	Total Penta-Dioxins				0.9723	10.001	29.96		0.000		NO	3.838		0.0574	4.404
41	Total Hexa-Dioxins				0.9211	10.001	33.63		0.000		NO	27.64		0.182	27.64
42	Total Hepta-Dioxins				0.8231	10.001	37.84		0.000		NO	208.3		0.965	208.3
43	Total Tetra-Furans				0.8120	10.001	23.61		0.000		NO	43.16		0.0666	46.87

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	42 Total Hepta-Dioxins	37.84	37.04	2.871e5	2.626e5	1.040	1.02	NO	116.96	116.96
2	6 1,2,3,4,6,7,8-HpCDD	38.08	38.09	2.264e5	2.185e5	1.040	1.04	NO	91.329	91.329

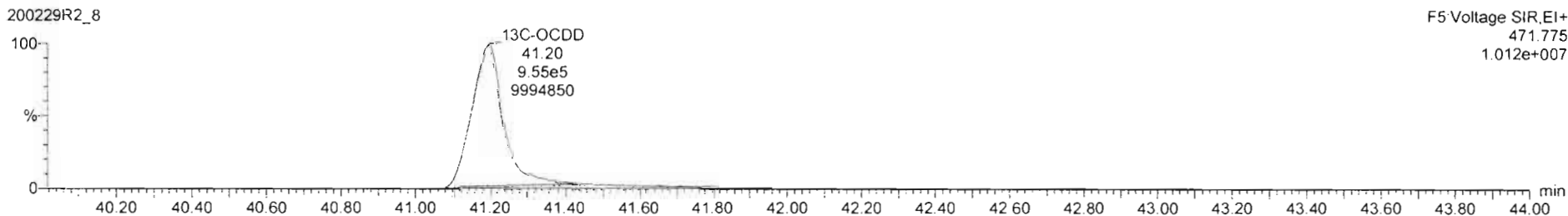
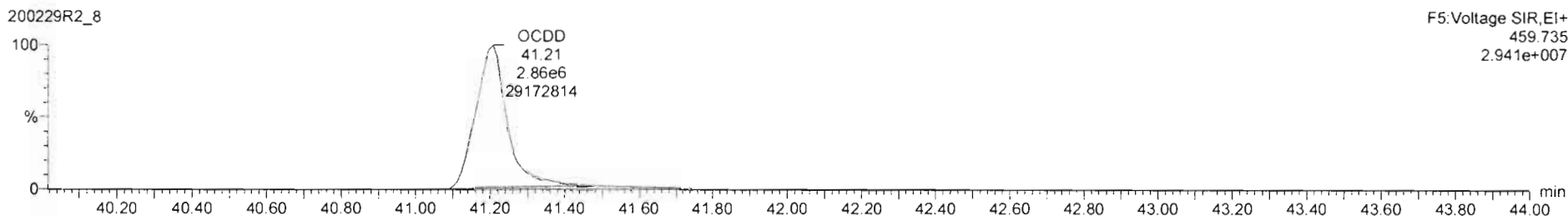
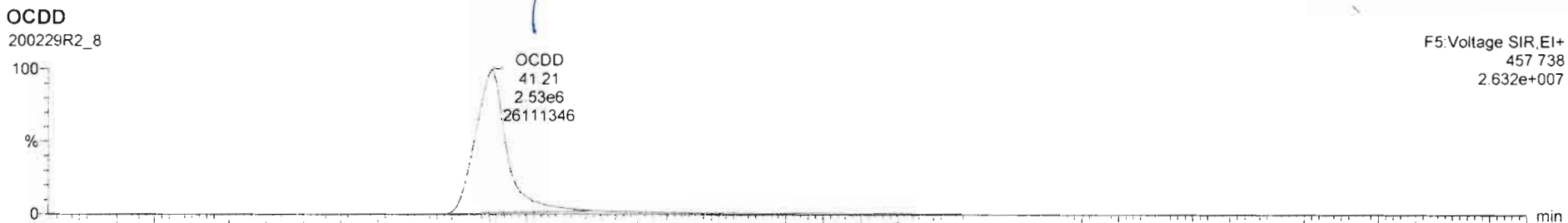


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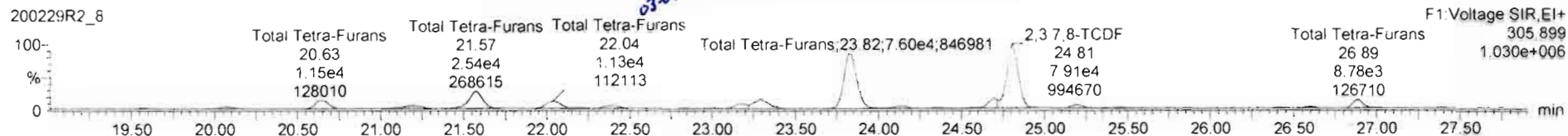
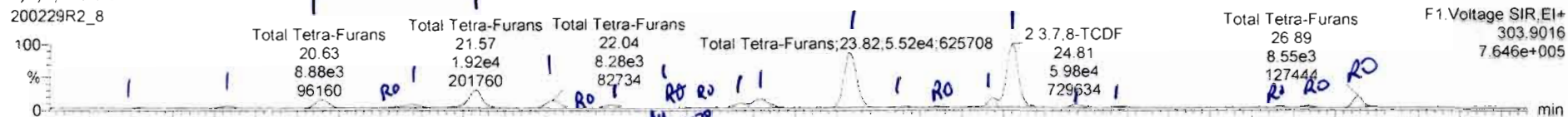
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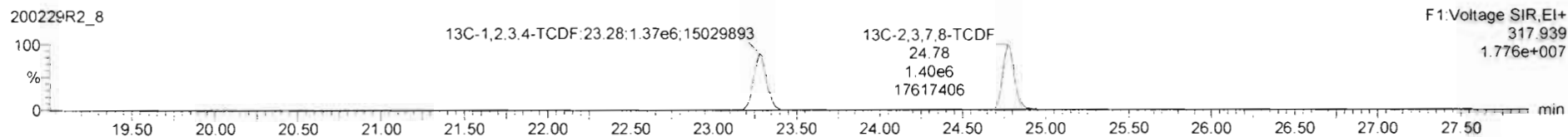
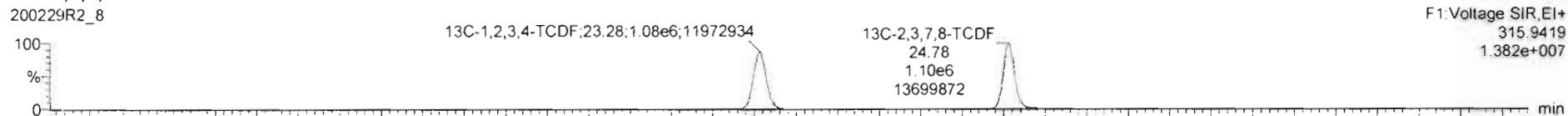
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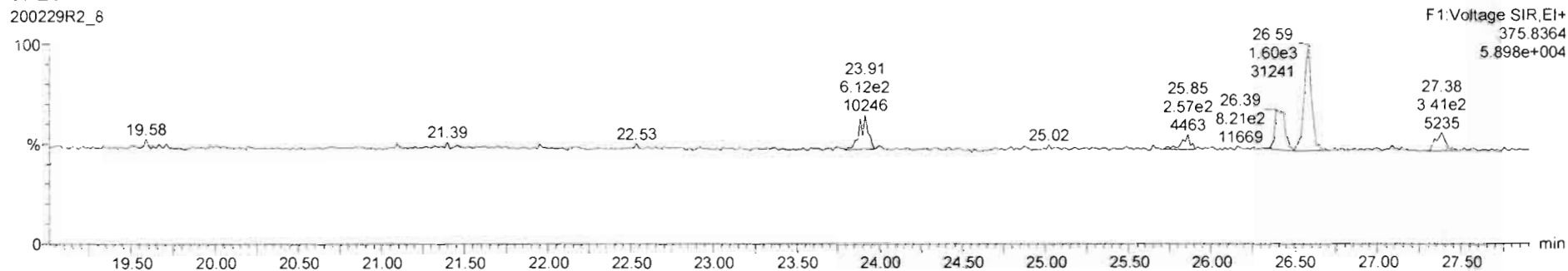
2,3,7,8-TCDF



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

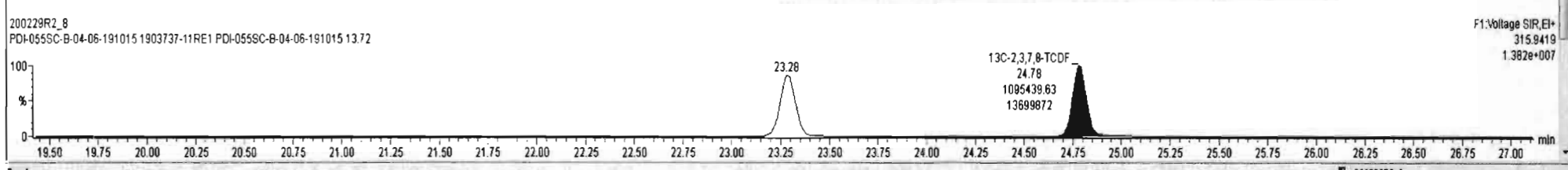
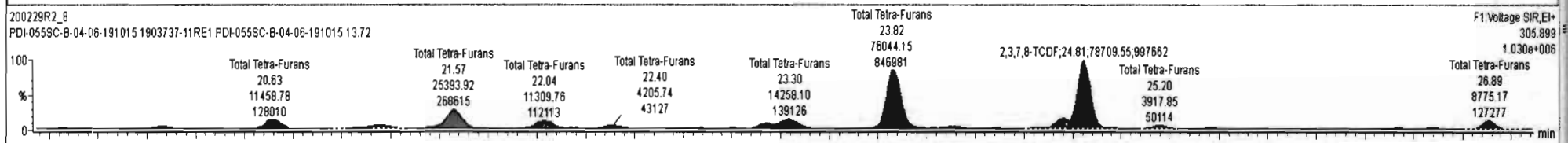
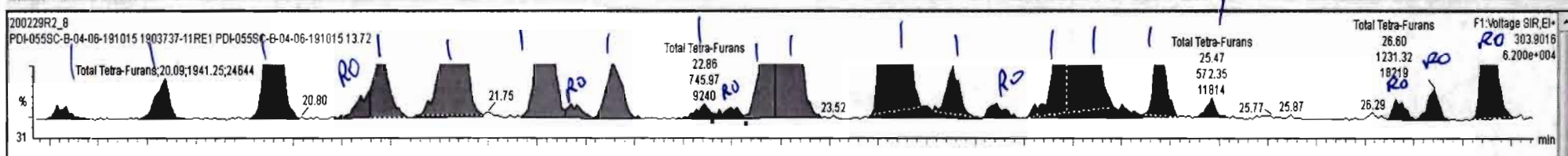


DPE1



#	Name	Resp	RA	n/y	RRF	wt/val	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9231	10.001	37.54		0.000		NO	208.3		0.985	208.3
43	Total Tetra-Furans				0.8020	10.001	23.51		0.000		NO	44.38		0.0686	47.57

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.51	19.54	6.749e2	9.275e2	0.770	0.73	NO	0.18033	0.18033
2	43 Total Tetra-Furans	23.51	20.09	1.941e3	2.414e3	0.770	0.80	NO	0.43577	0.43577
3	43 Total Tetra-Furans	23.51	20.63	8.679e3	1.146e4	0.770	0.77	NO	2.0349	2.0348
4	43 Total Tetra-Furans	23.51	21.14	1.180e3	1.863e3	0.770	0.63	YES	0.27137	0.00000
5	43 Total Tetra-Furans	23.51	21.19	3.484e3	4.208e3	0.770	0.83	NO	0.76961	0.00000
6	43 Total Tetra-Furans	23.51	21.57	1.946e4	2.539e4	0.770	0.77	NO	4.4879	4.4879
7	43 Total Tetra-Furans	23.51	22.04	8.285e3	1.131e4	0.770	0.73	NO	1.9805	1.9805
8	43 Total Tetra-Furans	23.51	22.17	6.769e2	7.509e2	0.770	0.90	YES	0.13297	0.00000
9	43 Total Tetra-Furans	23.51	22.38	3.194e3	4.206e3	0.770	0.76	NO	0.74035	0.74035
10	43 Total Tetra-Furans	23.51	22.86	7.460e2	8.517e2	0.770	0.88	NO	0.15985	0.15985
11	43 Total Tetra-Furans	23.51	23.03	7.171e2	7.287e2	0.770	0.98	YES	0.12905	0.00000
12	43 Total Tetra-Furans	23.51	23.16	4.648e3	6.202e3	0.770	0.75	NO	1.0856	1.0856
13	43 Total Tetra-Furans	23.51	23.30	1.103e4	1.426e4	0.770	0.77	NO	2.5306	2.5306
14	43 Total Tetra-Furans	23.51	23.82	5.667e4	7.604e4	0.770	0.75	NO	13.278	13.278
15	43 Total Tetra-Furans	23.51	24.13	2.728e3	3.777e3	0.770	0.72	NO	0.65086	0.65086
16	43 Total Tetra-Furans	23.51	24.36	8.428e2	1.019e3	0.770	0.83	NO	0.18628	0.18628
17	43 Total Tetra-Furans	23.51	24.55	2.618e2	7.368e2	0.770	0.36	YES	0.060220	0.00000
18	43 Total Tetra-Furans	23.51	24.69	7.075e3	1.068e4	0.770	0.66	NO	1.7765	1.7765
19	8 2,3,7,8-TCDF	24.80	24.81	6.160e4	7.871e4	0.770	0.78	NO	14.039	14.038
20	43 Total Tetra-Furans	23.51	25.20	3.294e3	3.918e3	0.770	0.84	NO	0.72153	0.72153
21	43 Total Tetra-Furans	23.51	25.47	5.723e2	7.621e2	0.770	0.75	NO	0.13352	0.13352
22	43 Total Tetra-Furans	23.51	26.41	8.189e2	7.886e2	0.770	1.04	YES	0.13967	0.00000
23	43 Total Tetra-Furans	23.51	26.60	1.231e3	1.308e3	0.770	0.94	YES	0.23164	0.00000



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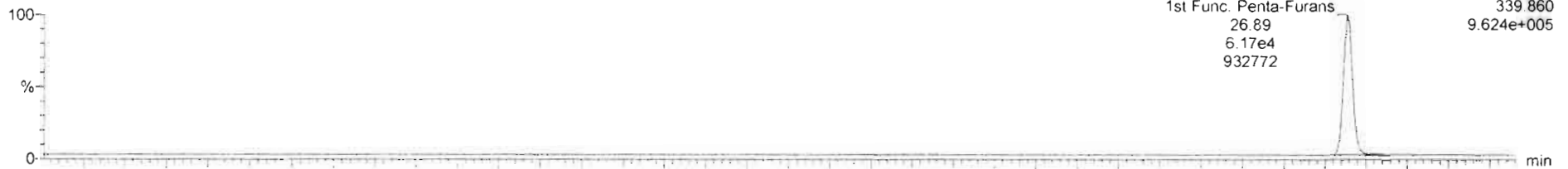
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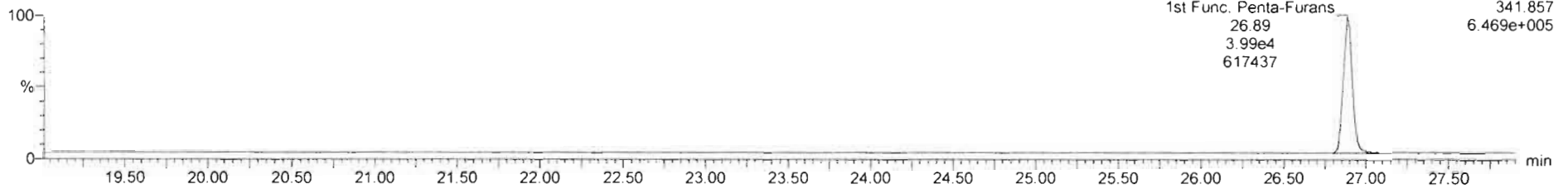
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1st Func. Penta-Furans

200229R2_8

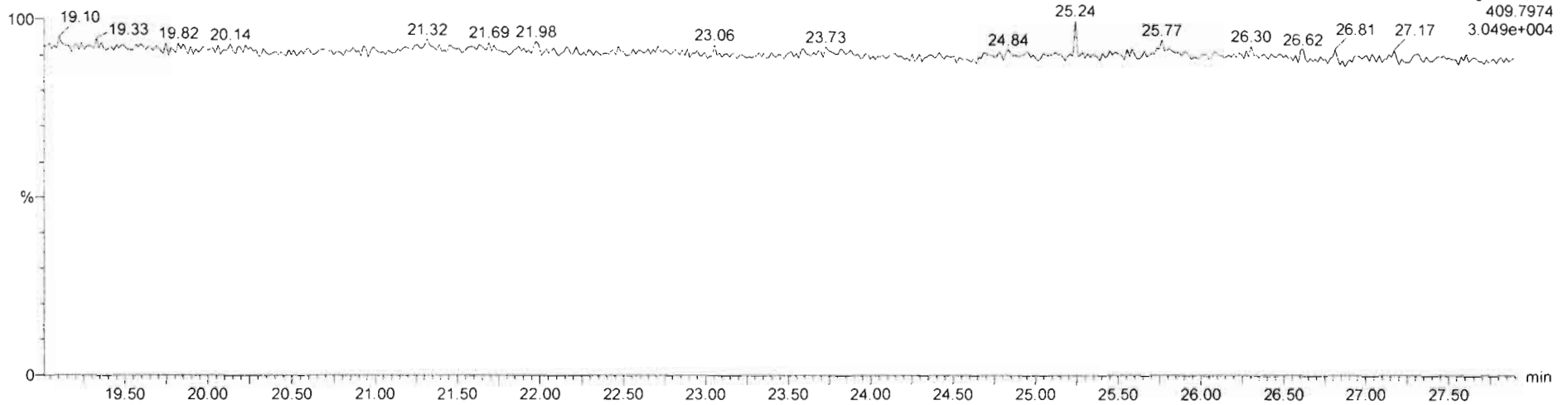


200229R2_8



DPE6

200229R2_8



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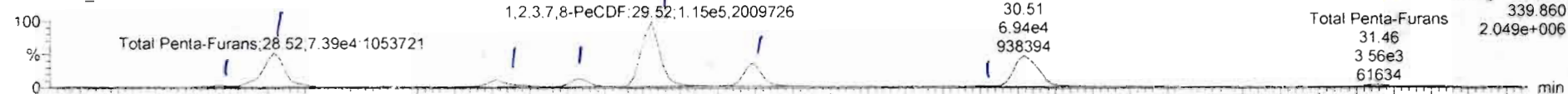
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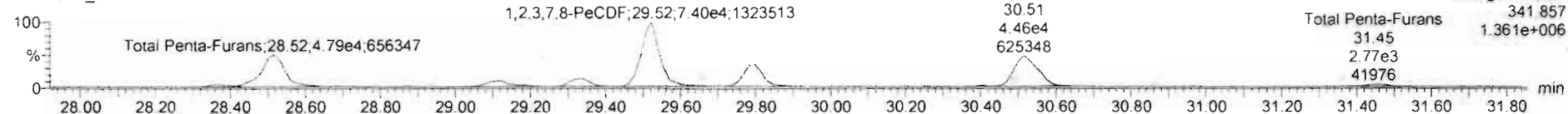
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1,2,3,7,8-PeCDF

200229R2_8

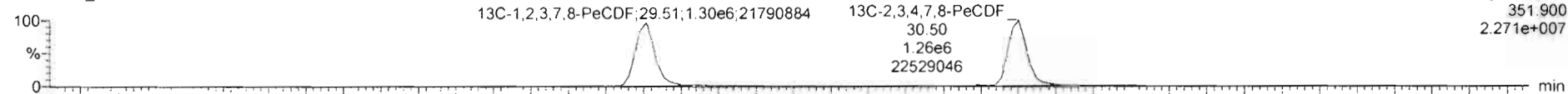


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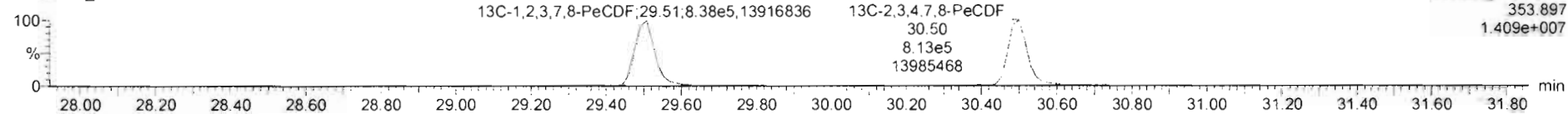


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200229R2_8

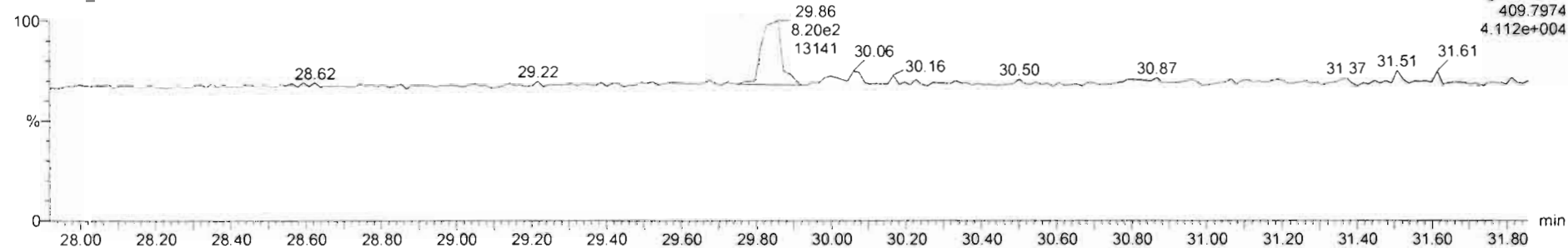


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DPE2

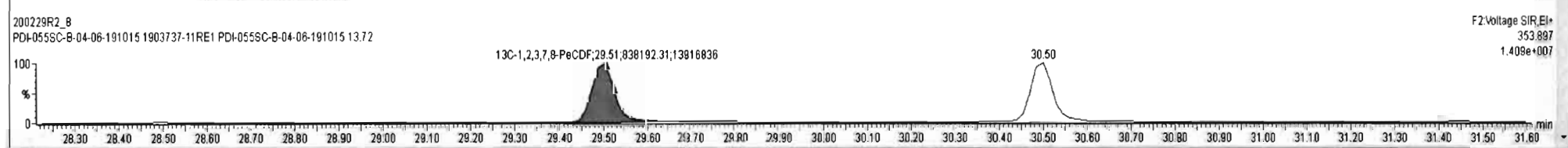
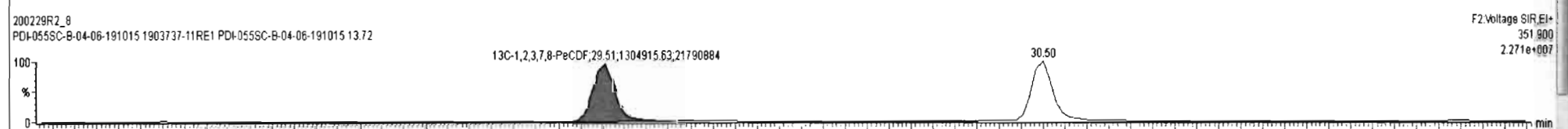
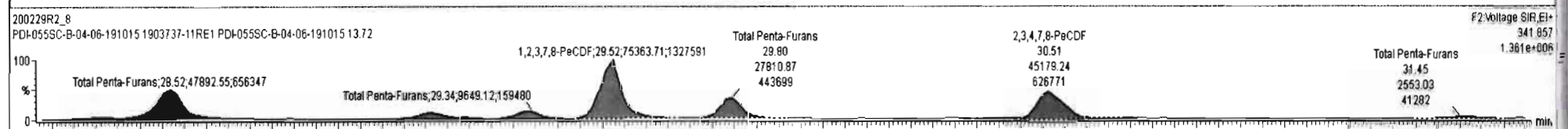
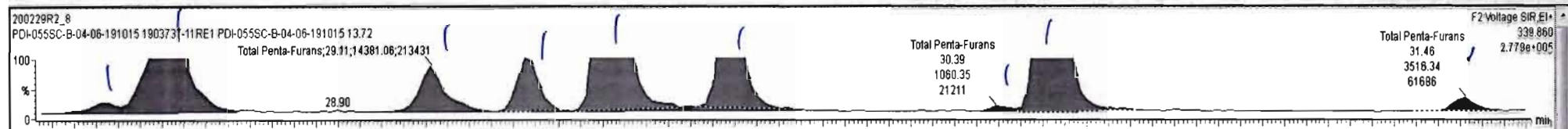
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200229R2_8: 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72: PDI-055SC-B-04-06-191015

#	Name	Resp	RA	n/y	RF	wtVol	Pred_RT	RT	Pred_R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.8074	10.001	29.27		0.000		NO	58.01		0.120	56.01
46	Total Hexa-Furans				0.8982	10.001	33.56		0.000		NO	100.2		0.193	100.2

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	45 Total Penta-Furans	29.27	29.36	3.043e3	2.297e3	1.550	1.33	NO	0.55823	0.55823
2	45 Total Penta-Furans	29.27	29.52	7.388e4	4.789e4	1.550	1.54	NO	12.731	12.731
3	45 Total Penta-Furans	29.27	29.11	1.438e4	8.983e3	1.550	1.60	NO	2.4426	2.4426
4	45 Total Penta-Furans	29.27	29.32	1.464e4	9.649e3	1.550	1.52	NO	2.5390	2.5390
5	9 1,2,3,7,8-PeCDF	29.53	29.52	1.168e5	7.536e4	1.550	1.55	NO	19.761	19.761
6	45 Total Penta-Furans	29.27	29.80	4.384e4	2.781e4	1.550	1.58	NO	7.4909	7.4909
7	45 Total Penta-Furans	29.27	30.39	1.060e3	7.025e2	1.550	1.51	NO	0.18429	0.18429
8	10 2,3,4,7,8-PeCDF	30.53	30.51	6.894e4	4.518e4	1.550	1.55	NO	11.671	11.671
9	45 Total Penta-Furans	29.27	31.46	3.518e3	2.553e3	1.550	1.38	NO	0.63453	0.63453



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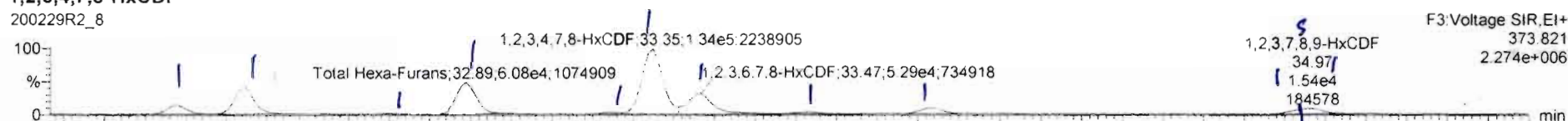
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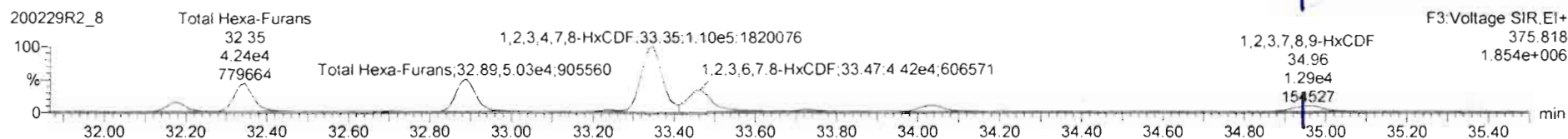
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1,2,3,4,7,8-HxCDF

200229R2_8

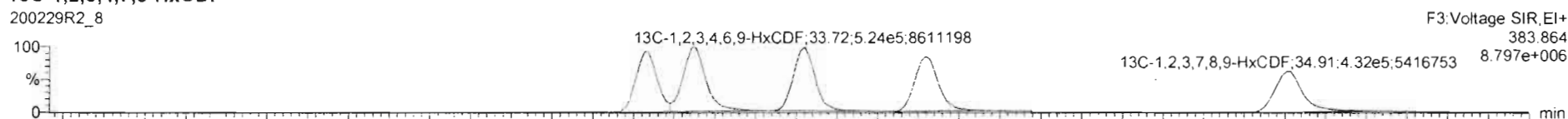


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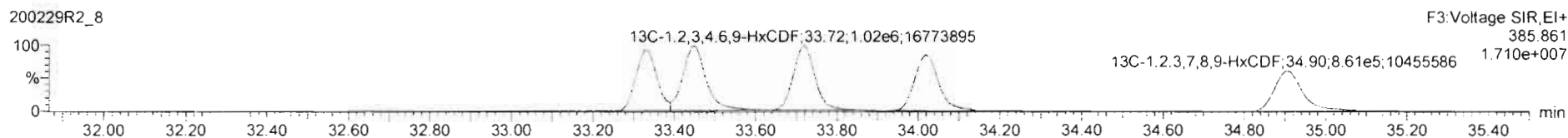


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200229R2_8

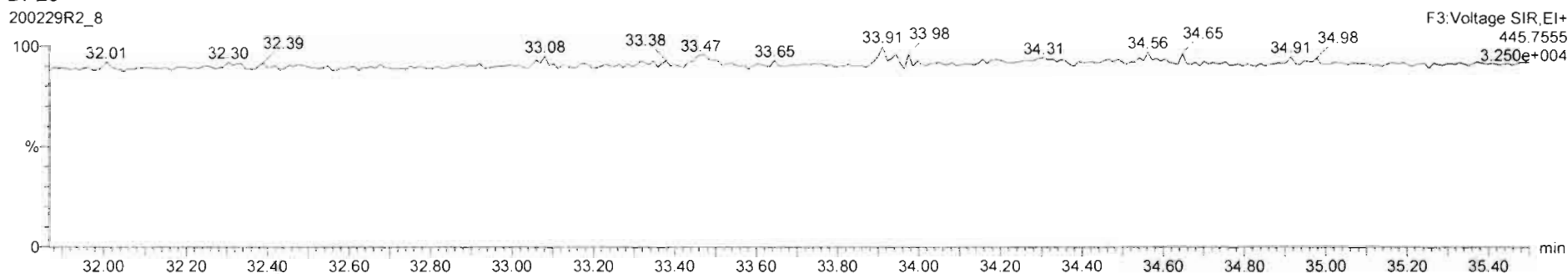


200229R2_8



DPE3

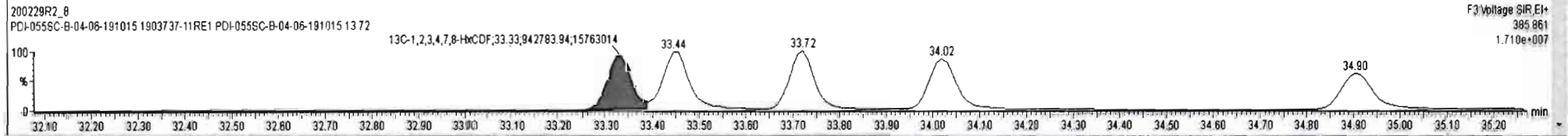
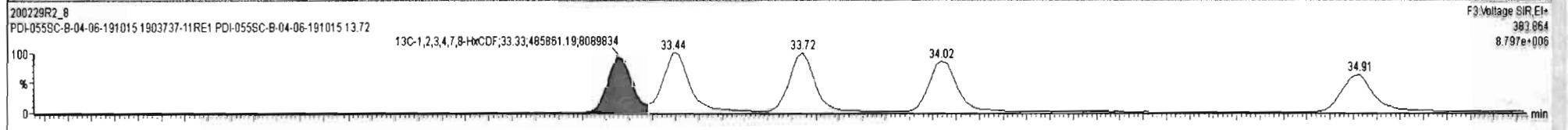
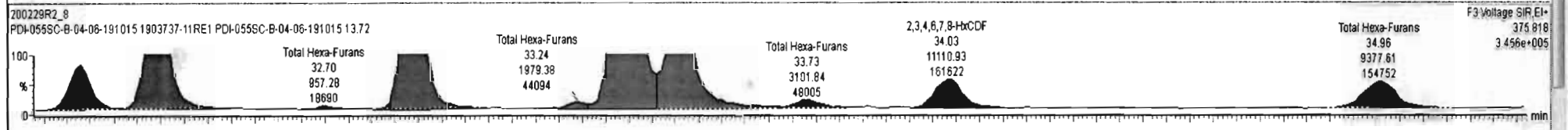
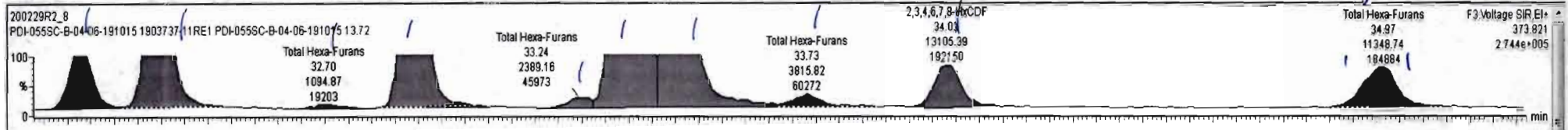
200229R2_8



200229R2_8 - 1903737-11RE1 PDI-0555C-B-04-06-191015 13.72 - PDI-0555C-B-04-06-191015

#	Name	Resp	RA	n/y	RRF	wtAval	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Hexa-Furans				0.9074	10.001	29.27		0.000		NO	58.01		0.120	58.01
46	Total Hexa-Furans				0.8982	10.001	33.56		0.000		NO	100.1		0.193	100.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.18	1.693e4	1.414e4	1.240	1.20	NO	4.7168	4.7168
2	46 Total Hexa-Furans	33.56	32.35	5.219e4	4.361e4	1.240	1.20	NO	14.541	14.541
3	46 Total Hexa-Furans	33.56	32.70	1.095e3	9.573e2	1.240	1.14	NO	0.31151	0.31151
4	46 Total Hexa-Furans	33.56	32.89	6.172e4	5.139e4	1.240	1.20	NO	17.169	17.169
5	46 Total Hexa-Furans	33.56	33.24	2.389e3	1.979e3	1.240	1.21	NO	0.66313	0.66313
6	11 1,2,3,4,7,8-HxCDF	33.33	33.35	1.336e5	1.102e5	1.240	1.21	NO	39.572	39.572
7	12 1,2,3,6,7,8-HxCDF	33.45	33.47	5.285e4	4.438e4	1.240	1.19	NO	13.960	13.960
8	46 Total Hexa-Furans	33.56	33.73	3.816e3	3.102e3	1.240	1.23	NO	1.0501	1.0501
9	13 2,3,4,6,7,8-HxCDF	34.05	34.03	1.311e4	1.111e4	1.240	1.18	NO	3.6209	3.6209
10	14 1,2,3,7,8-HxCDF	34.91	34.94	4.019e3	3.309e3	1.240	1.21	NO	1.3206	1.3206
11	46 Total Hexa-Furans	33.56	34.97	1.135e4	9.378e3	1.240	1.21	NO	3.1462	3.1462



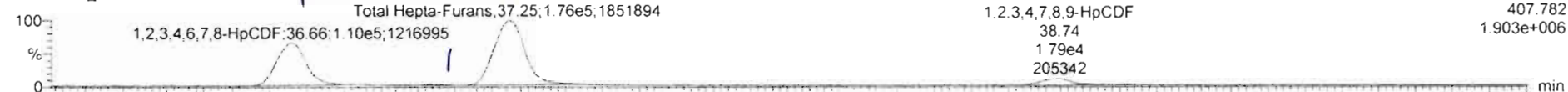
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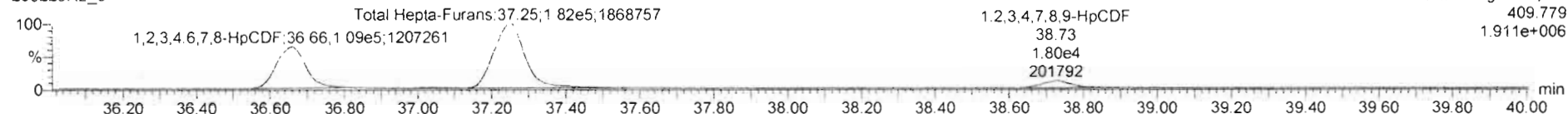
Name: 200229R2_8, Date: 01-Mar-2020, Time: 04:45:37, ID: 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

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

200229R2_8

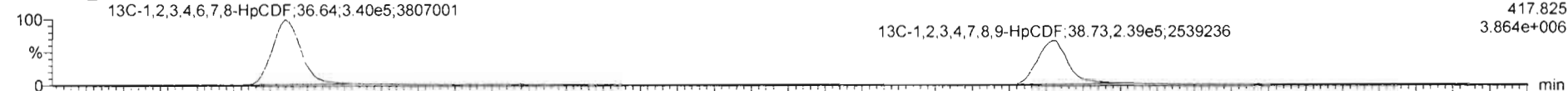


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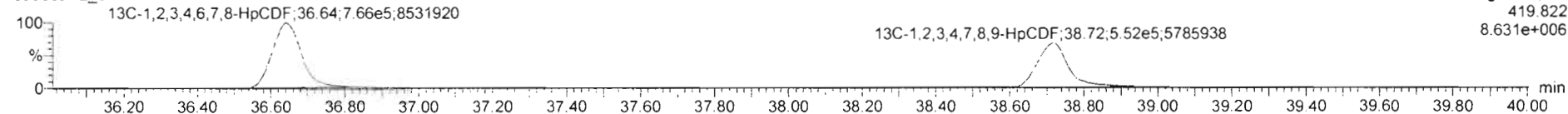


13C-1,2,3,4,6,7,8-HpCDF

200229R2_8

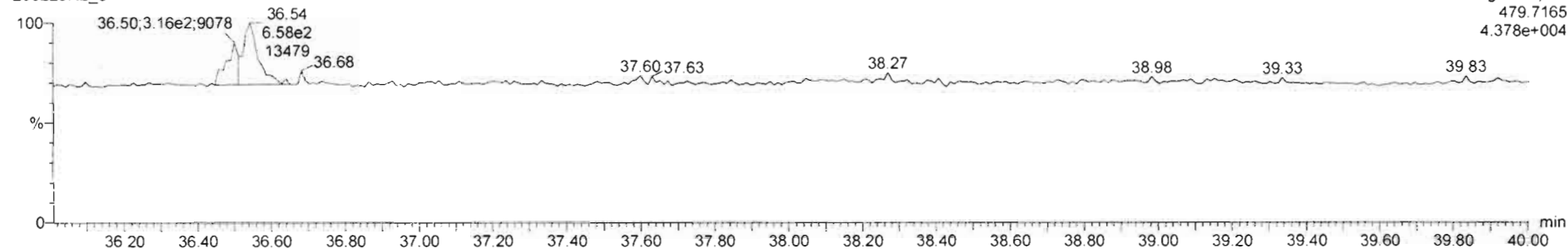


200229R2_8



DPE4

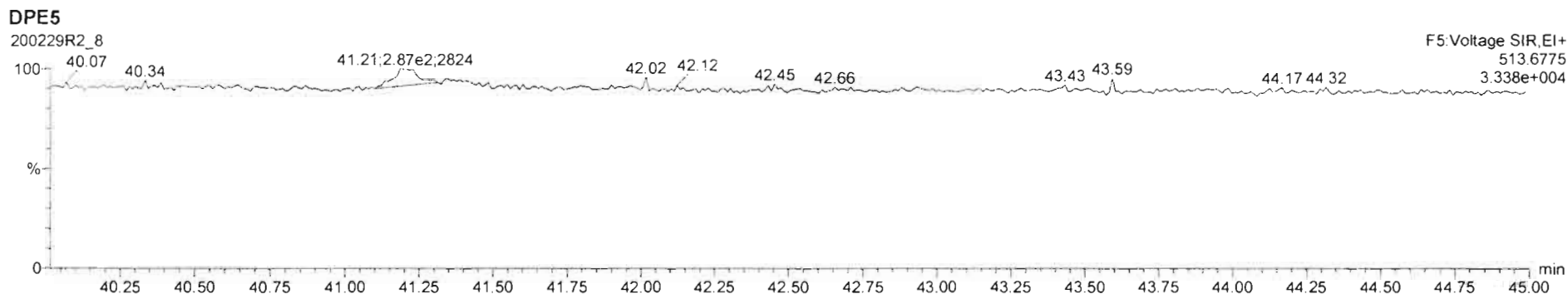
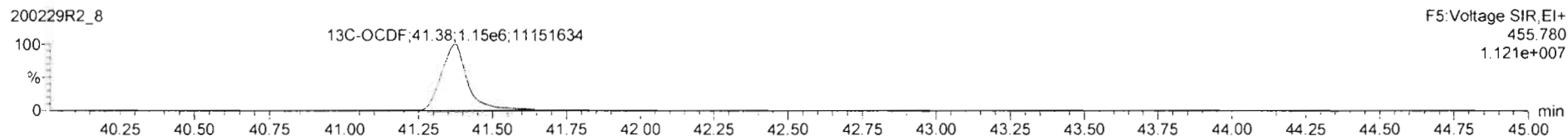
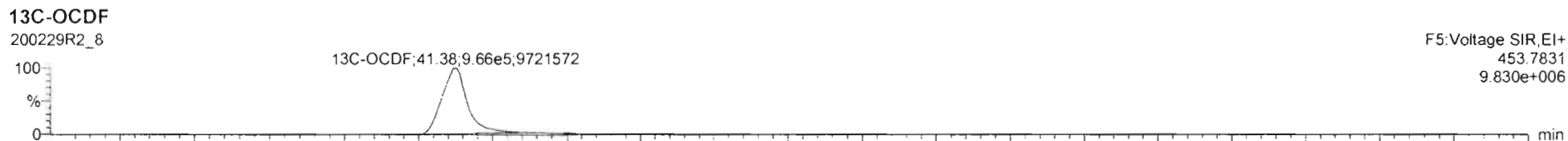
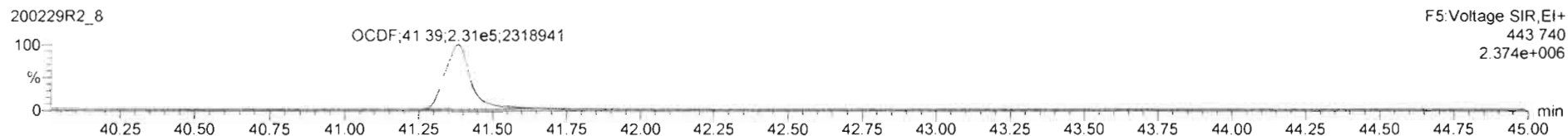
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Printed: Monday, March 02, 2020 10:11:00 Pacific Standard Time

Name: 200229R2_8, Date: 01-Mar-2020, Time: 04:45:37, ID: 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

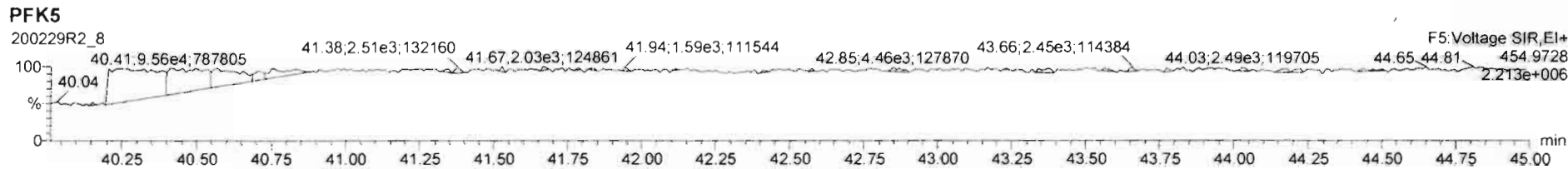
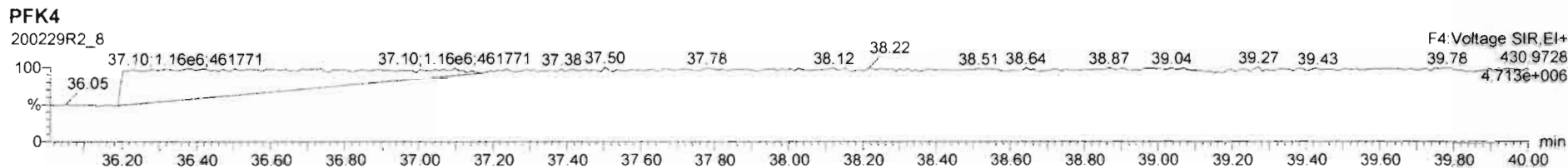
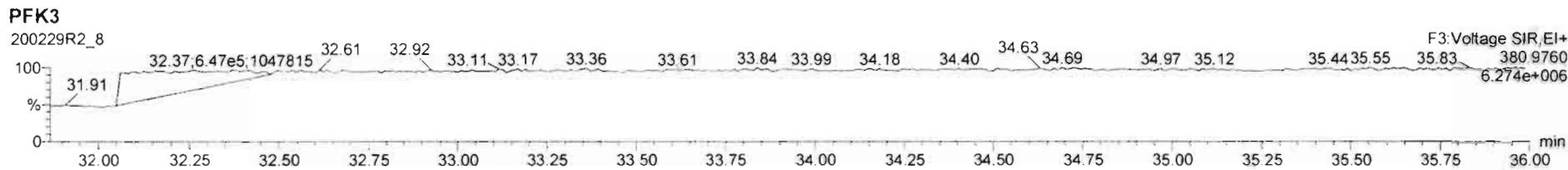
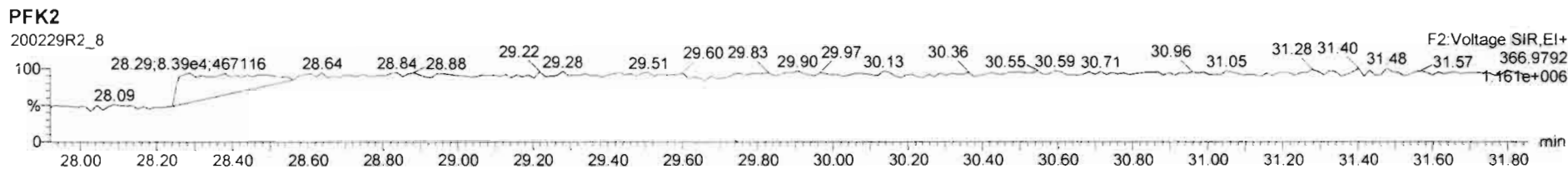
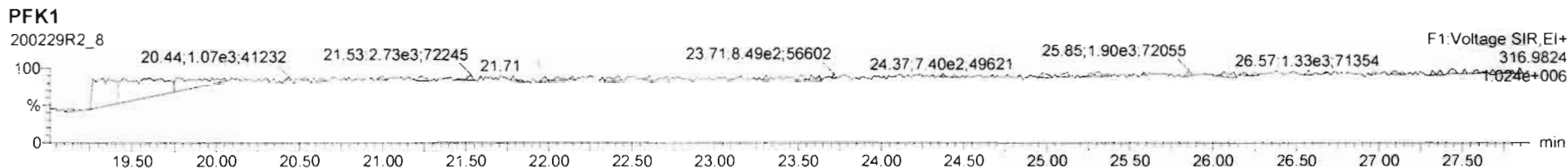


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Printed: Monday, March 02, 2020 10:11:00 Pacific Standard Time

Name: 200229R2_8, Date: 01-Mar-2020, Time: 04:45:37, ID: 1903737-11RE1 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015



Dataset: U:\VG12.PRO\Results\200229R2\200229R2-9.qld

Last Altered: Tuesday, March 10, 2020 08:49:54 Pacific Daylight Time
Printed: Tuesday, March 10, 2020 09:01:17 Pacific Daylight Time

dy 03-10-2020 C103/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09
Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R2_9, Date: 01-Mar-2020, Time: 05:33:03, ID: 1903737-12RE1 PDI-055SC-B-06-08-191015 13.28, Description: PDI-055SC-B-06-08-191015

#	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				0.988	10.016	25.75		1.00		NO			0.0477	
2	2 1,2,3,7,8-PeCDD				0.972	10.016	30.86		1.00		NO			0.0490	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.016	34.22		1.00		NO			0.0589	
4	4 1,2,3,6,7,8-HxCDD				0.921	10.016	34.31		1.00		NO			0.0595	
5	5 1,2,3,7,8,9-HxCDD	722.020	1.377	NO	0.918	10.016	34.62	34.60	1.00	1.00	NO	0.1111		0.0703	0.1111
6	6 1,2,3,4,6,7,8-HpCDD	6276.627	1.028	NO	0.923	10.016	38.10	38.10	1.00	1.00	NO	1.086		0.179	1.086
7	7 OCDD	47267.723	0.895	NO	0.975	10.016	41.20	41.22	1.00	1.00	NO	9.101		0.211	9.101
8	8 2,3,7,8-TCDF				0.802	10.016	24.82		1.00		NO			0.0424	
9	9 1,2,3,7,8-PeCDF				0.907	10.016	29.54		1.00		NO			0.0375	
10	10 2,3,4,7,8-PeCDF				0.952	10.016	30.54		1.00		NO			0.0356	
11	11 1,2,3,4,7,8-HxCDF	1001.660	1.212	NO	0.862	10.016	33.35	33.37	1.00	1.00	NO	0.1408		0.0423	0.1408
12	12 1,2,3,6,7,8-HxCDF				0.841	10.016	33.48		1.00		NO			0.0404	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.016	34.08		1.00		NO			0.0456	
14	14 1,2,3,7,8,9-HxCDF	396.380	0.836	YES	0.858	10.016	34.92	34.94	1.00	1.00	NO	0.06506		0.0645	0.05353
15	15 1,2,3,4,6,7,8-HpCDF	700.756	1.124	NO	0.851	10.016	36.70	36.68	1.00	1.00	NO	0.1307		0.0856	0.1307
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.016	38.74		1.00		NO			0.105	
17	17 OCDF	1349.208	0.914	NO	0.806	10.016	41.38	41.39	1.00	1.00	NO	0.2739		0.0871	0.2739
18	18 13C-2,3,7,8-TCDD	2065604.5...	0.778	NO	1.20	10.016	25.71	25.72	1.03	1.03	NO	186.1	93.2	0.160	
19	19 13C-1,2,3,7,8-PeCDD	1677087.5...	0.633	NO	0.967	10.016	30.84	30.83	1.23	1.23	NO	187.4	93.8	0.212	
20	20 13C-1,2,3,4,7,8-HxCDD	1252014.3...	1.268	NO	0.874	10.016	34.21	34.21	1.01	1.01	NO	173.0	86.6	0.381	
21	21 13C-1,2,3,6,7,8-HxCDD	1561901.1...	1.261	NO	1.05	10.016	34.32	34.31	1.02	1.02	NO	180.3	90.3	0.319	
22	22 13C-1,2,3,7,8,9-HxCDD	1413806.3...	1.246	NO	0.974	10.016	34.62	34.58	1.03	1.02	NO	175.2	87.7	0.342	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1250285.4...	1.078	NO	0.747	10.016	38.20	38.09	1.13	1.13	NO	202.0	101	0.540	
24	24 13C-OCDD	2128249.6...	0.875	NO	0.707	10.016	41.10	41.20	1.22	1.22	NO	363.7	91.1	0.378	
25	25 13C-2,3,7,8-TCDF	2548378.5...	0.773	NO	1.07	10.016	24.89	24.79	0.99	0.99	NO	184.3	92.3	0.219	
26	26 13C-1,2,3,7,8-PeCDF	2279942.8...	1.575	NO	1.00	10.016	29.47	29.52	1.18	1.18	NO	175.3	87.8	0.362	
27	27 13C-2,3,4,7,8-PeCDF	2180117.4...	1.605	NO	0.962	10.016	30.44	30.51	1.21	1.22	NO	174.6	87.5	0.377	
28	28 13C-1,2,3,4,7,8-HxCDF	1647142.1...	0.512	NO	1.05	10.016	33.34	33.35	0.99	0.99	NO	189.5	94.9	0.588	
29	29 13C-1,2,3,6,7,8-HxCDF	1887035.3...	0.512	NO	1.19	10.016	33.44	33.47	0.99	0.99	NO	191.5	95.9	0.518	
30	30 13C-2,3,4,6,7,8-HxCDF	1636460.6...	0.530	NO	1.07	10.016	34.05	34.04	1.01	1.01	NO	185.3	92.8	0.578	
31	31 13C-1,2,3,7,8,9-HxCDF	1418321.9...	0.537	NO	0.922	10.016	34.96	34.92	1.04	1.04	NO	185.7	93.0	0.668	

Dataset: U:\VG12.PRO\Results\200229R2\200229R2-9.qld

Last Altered: Tuesday, March 10, 2020 08:49:54 Pacific Daylight Time

Printed: Tuesday, March 10, 2020 09:01:17 Pacific Daylight Time

Name: 200229R2_9, Date: 01-Mar-2020, Time: 05:33:03, ID: 1903737-12RE1 PDI-055SC-B-06-08-191015 13.28, Description: PDI-055SC-B-06-08-191015

#	Name	Abs.Resp	RA	n/y	RRF	wt./vcl.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1257455.6...	0.452	NO	0.767	10.016	36.71	36.66	1.09	1.09	NO	197.9	99.1	0.564	
33	33 13C-1,2,3,4,7,8,9-HpCDF	908950.281	0.437	NO	0.552	10.016	38.74	38.74	1.15	1.15	NO	198.7	99.5	0.784	
34	34 13C-OCDF	2442186.5...	0.878	NO	0.789	10.016	41.33	41.38	1.23	1.23	NO	373.5	93.5	0.381	
35	35 37Cl-2,3,7,8-TCDD	717109.500			1.18	10.016	25.74	25.75	1.03	1.03	NO	65.84	82.4	0.0650	
36	36 13C-1,2,3,4-TCDD	1848951.3...	0.791	NO	1.00	10.016	25.11	25.06	1.00	1.00	NO	199.7	100	0.192	
37	37 13C-1,2,3,4-TCDF	2591955.5...	0.787	NO	1.00	10.016	23.37	23.28	1.00	1.00	NO	199.7	100	0.233	
38	38 13C-1,2,3,4,6,9-HxCDF	1653840.2...	0.510	NO	1.00	10.016	33.71	33.74	1.00	1.00	NO	199.7	100	0.617	
39	39 Total Tetra-Dioxins				0.988	10.016	24.62		0.00		NO	0.2308		0.0477	0.2308
40	40 Total Penta-Dioxins				0.972	10.016	29.96		0.00		NO	0.1004		0.0490	0.1794
41	41 Total Hexa-Dioxins				0.921	10.016	33.63		0.00		NO	0.9241		0.0657	1.231
42	42 Total Hepta-Dioxins				0.923	10.016	37.64		0.00		NO	2.863		0.179	2.863
43	43 Total Tetra-Furans				0.802	10.016	23.61		0.00		NO			0.0200	
44	44 1st Func. Penta-Furans				0.907	10.016	27.09		0.00		NO			0.0121	
45	45 Total Penta-Furans				0.907	10.016	29.27		0.00		NO			0.0172	
46	46 Total Hexa-Furans				0.898	10.016	33.56		0.00		NO	0.1408		0.0456	0.2288
47	47 Total Hepta-Furans				0.851	10.016	37.83		0.00		NO	0.1307		0.101	0.3154

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Dataset: U:\VG12.PRO\Results\200229R2\200229R2-9.qld

Last Altered: Tuesday, March 10, 2020 08:49:54 Pacific Daylight Time

Printed: Tuesday, March 10, 2020 09:01:33 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R2_9, Date: 01-Mar-2020, Time: 05:33:03, ID: 1903737-12RE1 PDI-055SC-B-06-08-191015 13.28, Description: PDI-055SC-B-06-08-191015

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	2.36e3	2.07e6	0.843	NO	24.62	23.44	0.2308	0.2308

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	8.20e2	1.68e6	0.706	NO	29.96	29.07	0.1004	0.1004
2	40 Total Penta-Dioxins	0.00e0	1.68e6	0.500	YES	29.96	28.61	0.0000	0.07897

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	7.22e2	1.41e6	1.377	NO	34.62	34.60	0.1111	0.1111
2	41 Total Hexa-Dioxins	0.00e0	0.00e0	0.918	YES	33.63	33.56	0.0000	0.3070
3	41 Total Hexa-Dioxins	5.29e3	0.00e0	1.215	NO	33.63	32.75	0.8130	0.8130

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	6.28e3	1.25e6	1.028	NO	38.10	38.10	1.086	1.086
2	42 Total Hepta-Dioxins	1.03e4	1.25e6	0.961	NO	37.64	37.07	1.777	1.777

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200229R2\200229R2-9.qld

Last Altered: Tuesday, March 10, 2020 08:49:54 Pacific Daylight Time

Printed: Tuesday, March 10, 2020 09:01:33 Pacific Daylight Time

Name: 200229R2_9, Date: 01-Mar-2020, Time: 05:33:03, ID: 1903737-12RE1 PDI-055SC-B-06-08-191015 13.28, Description: PDI-055SC-B-06-08-191015

Penta-Furans

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

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	3.96e2	1.42e6	0.836	YES	34.92	34.94	0.0000	0.05353
2	11 1,2,3,4,7,8-HxCDF	1.00e3	1.65e6	1.212	NO	33.35	33.37	0.1408	0.1408
3	46 Total Hexa-Furans	0.00e0	0.00e0	1.842	YES	33.56	34.97	0.0000	0.03443

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	47 Total Hepta-Furans	0.00e0	0.00e0	0.963	NO	37.83	37.28	0.0000	0.1846
2	15 1,2,3,4,6,7,8-HpCDF	7.01e2	1.26e6	1.124	NO	36.70	36.68	0.1307	0.1307

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Printed: Monday, March 02, 2020 10:11:00 Pacific Standard Time

dy 03-10-2020

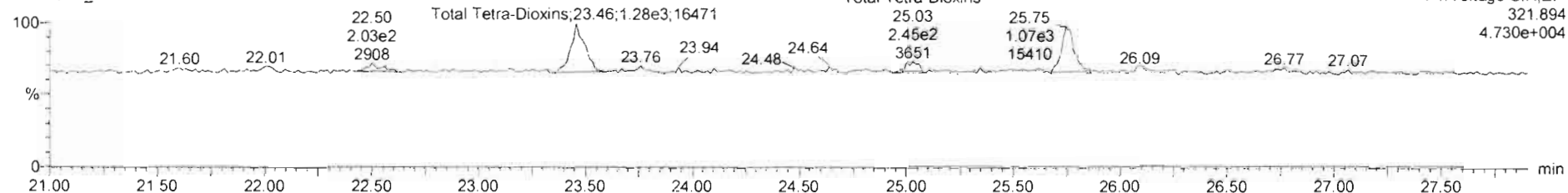
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2,3,7,8-TCDD

200229R2_9

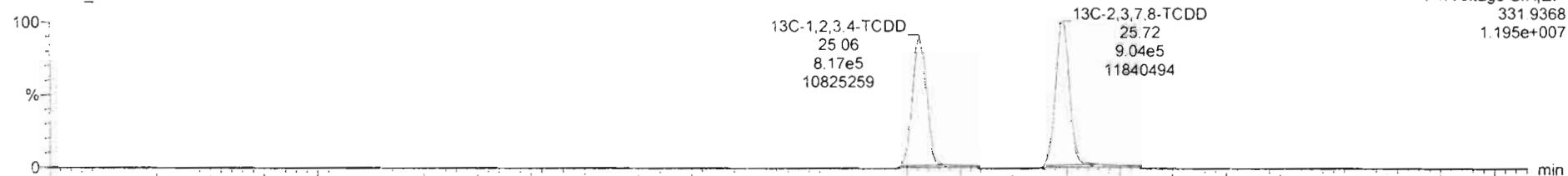


200229R2_9

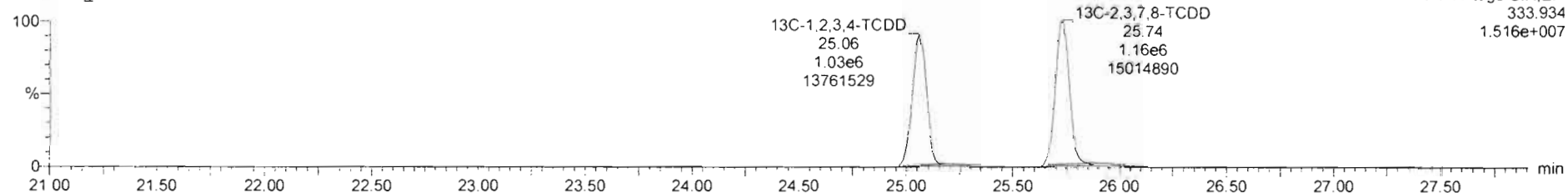


13C-2,3,7,8-TCDD

200229R2_9

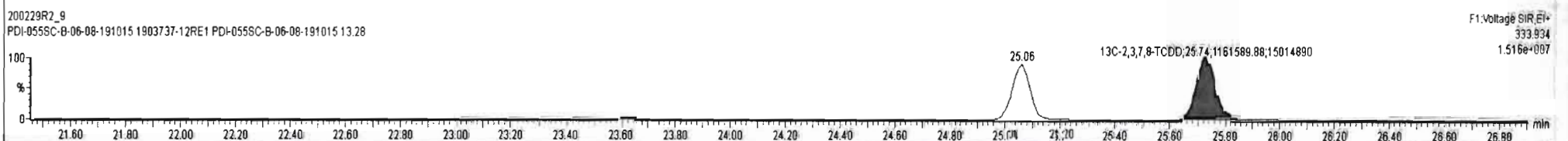
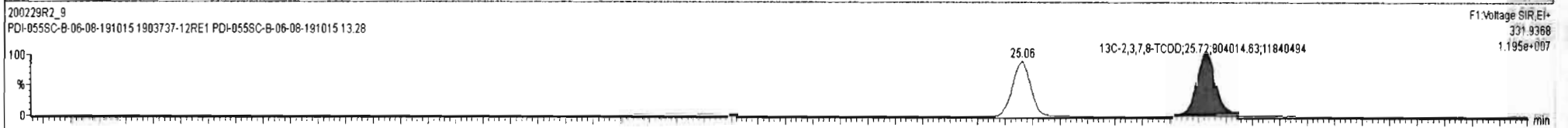
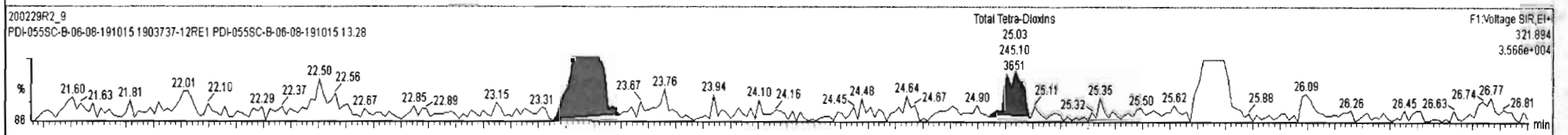
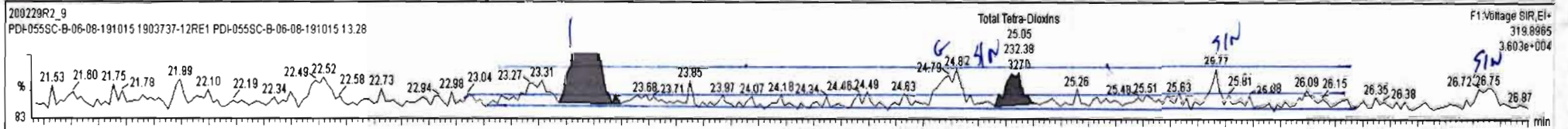


200229R2_9



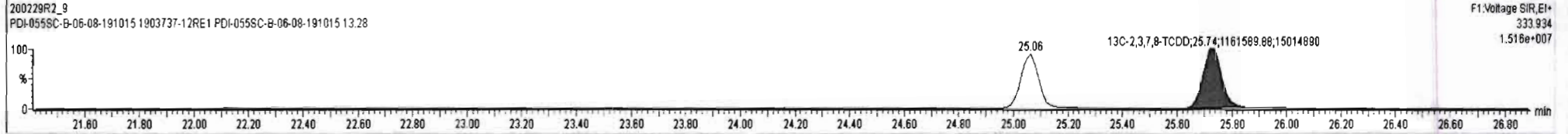
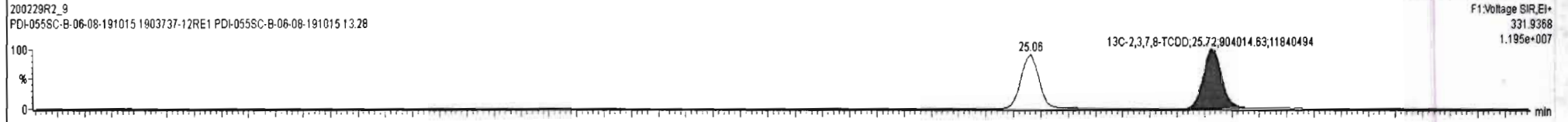
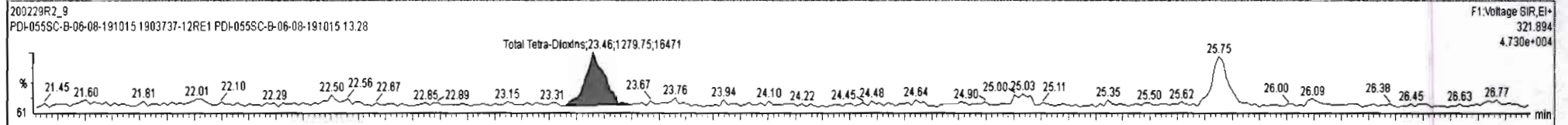
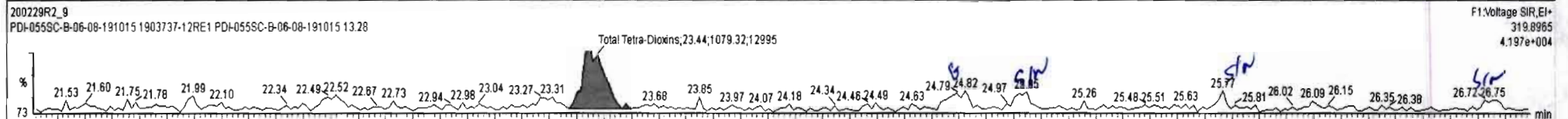
#	Name	Resp	RA	n/y	RRF	w/Vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.016	24.82		0.000		NO	0.2308		0.0477	0.2730
40	Total Penta-Dioxins				0.9723	10.016	29.96		0.000		NO	0.1639		0.0490	0.2900

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1:1 Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	24.62	23.44	1.079e3	1.290e3	0.770	0.84	NO	0.23100	0.23080
2	Total Tetra-Dioxins	24.62	25.05	2.324e2	2.451e2	0.770	0.95	YES	0.042000	0.00000



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8981	10.015	24.62		0.000	NO	0.2308		0.0477	0.2308	
40	Total Penta-Dioxins				0.9723	10.016	29.96		0.000	NO	0.1639		0.0490	0.2898	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	23.44	1.079e3	1.280e3	0.770	0.84	NO	0.23080	0.23080



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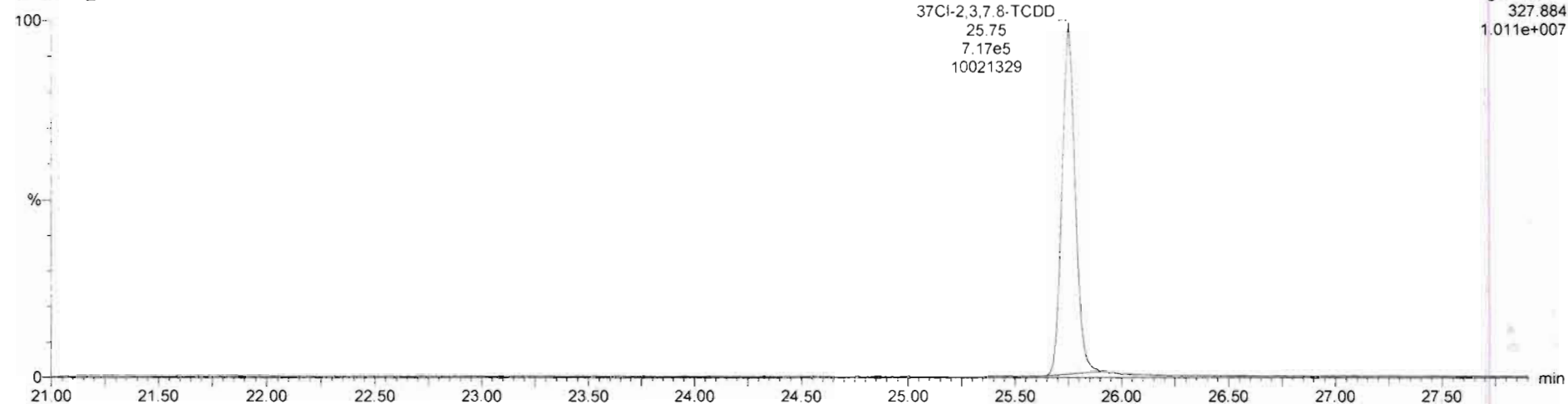
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Printed: Monday, March 02, 2020 10:11:00 Pacific Standard Time

Name: 200229R2_9, Date: 01-Mar-2020, Time: 05:33:03, ID: 1903737-12RE1 PDI-055SC-B-06-08-191015 13.28, Description: PDI-055SC-B-06-08-191015

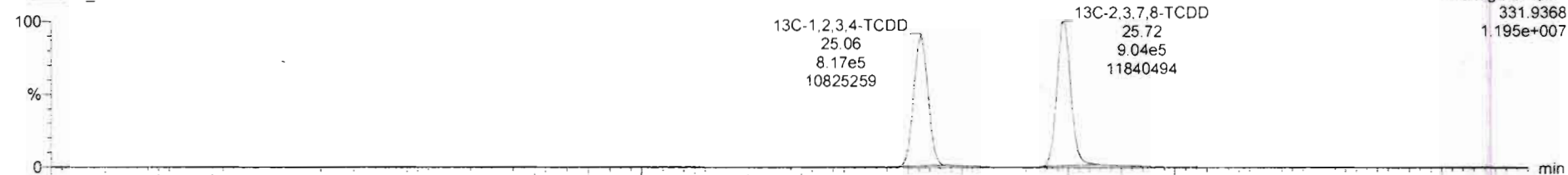
37Cl-2,3,7,8-TCDD

200229R2_9

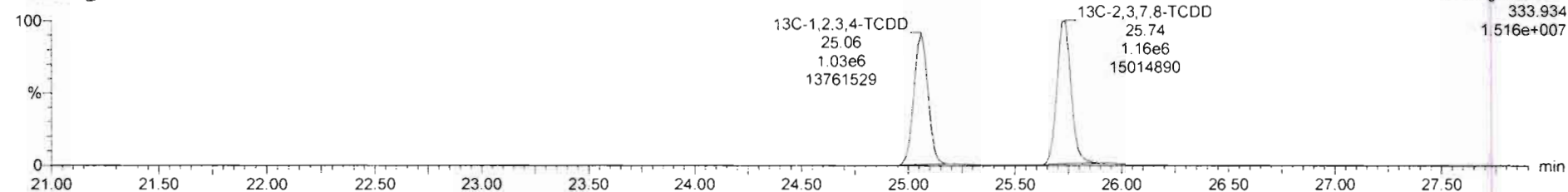


13C-1,2,3,4-TCDD

200229R2_9



200229R2_9



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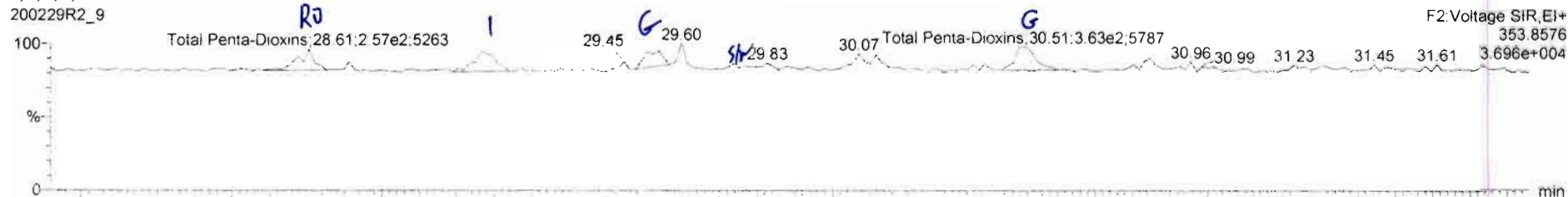
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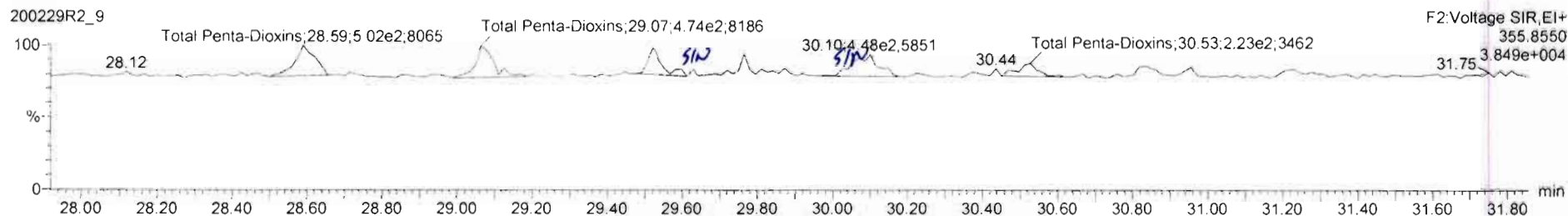
1,2,3,7,8-PeCDD

200229R2_9



F2:Voltage SIR,EI+
353.8576

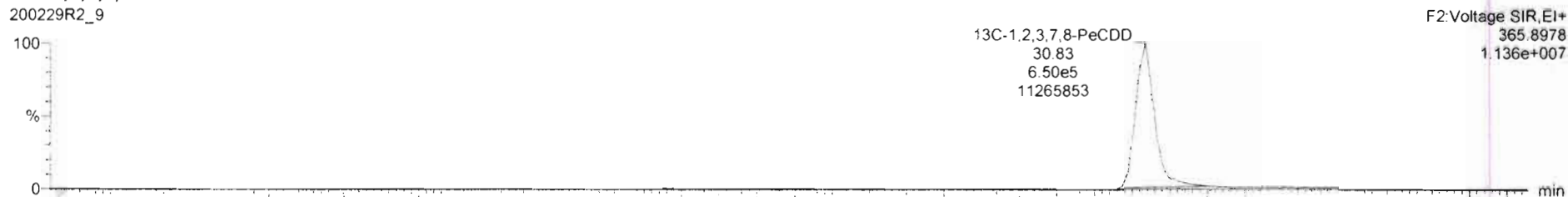
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F2:Voltage SIR,EI+
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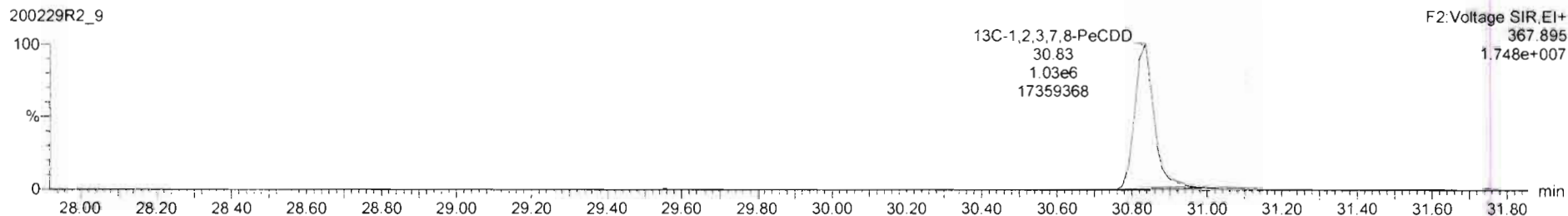
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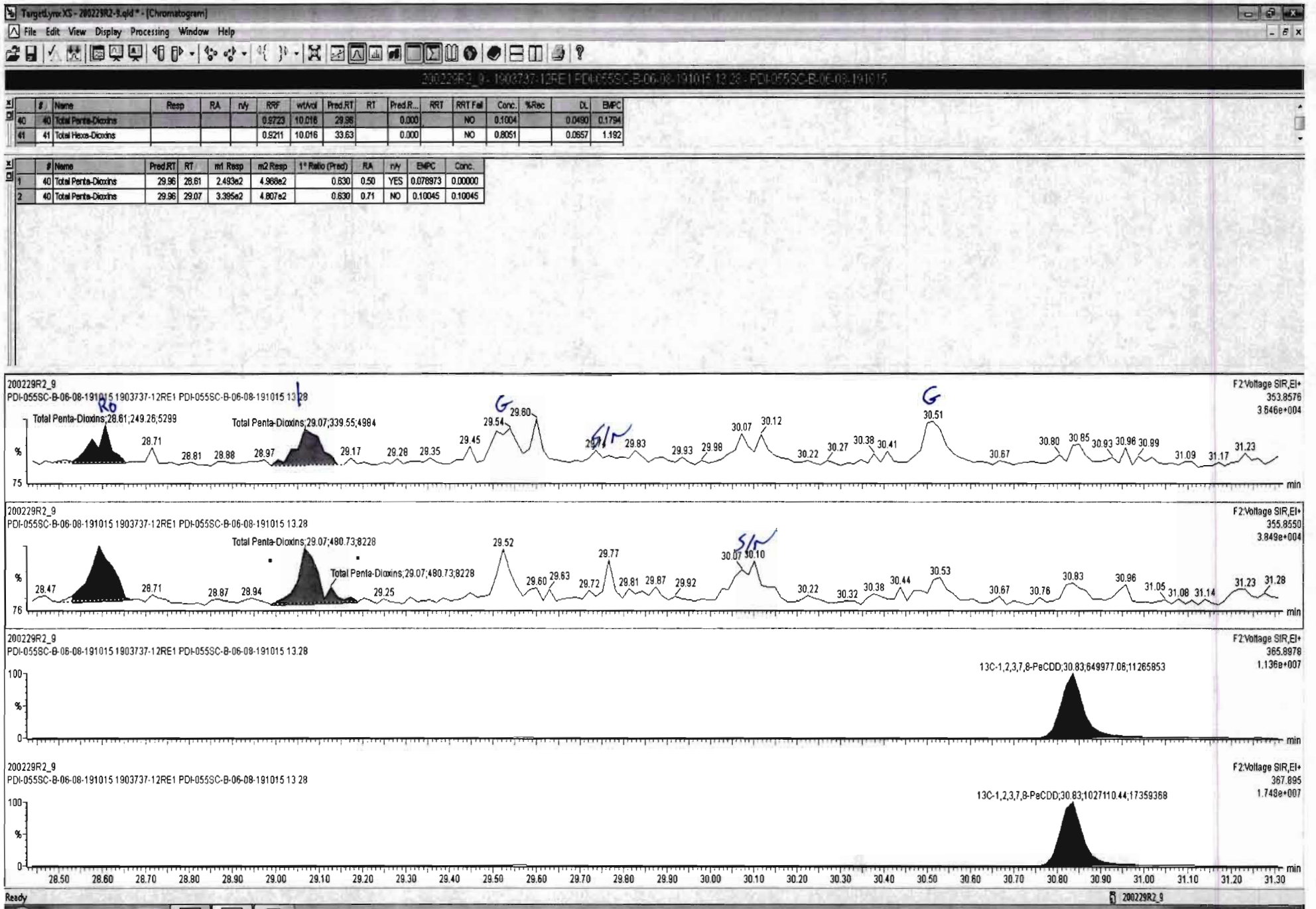


F2:Voltage SIR,EI+
365.8978
1.136e+007

200229R2_9

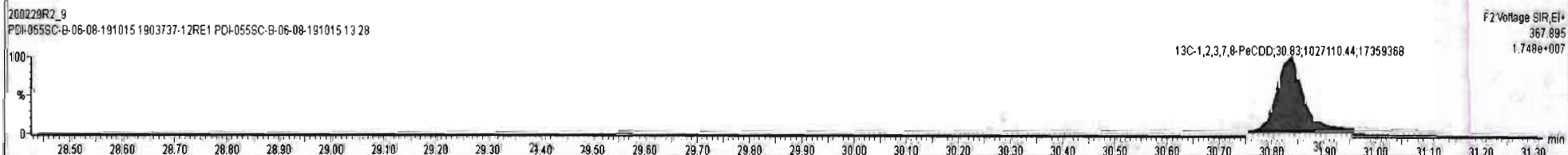
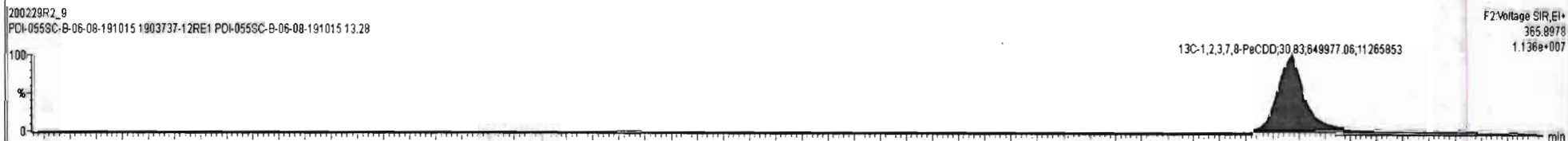
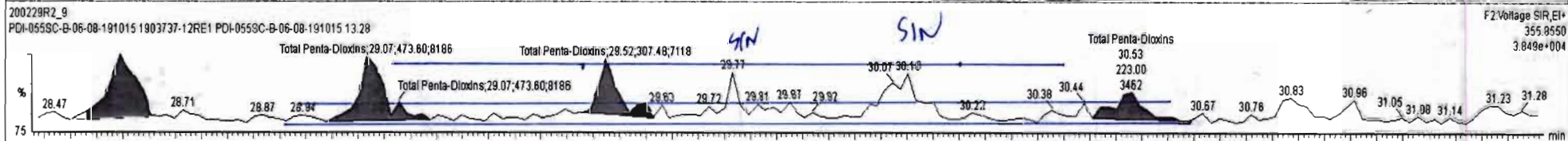
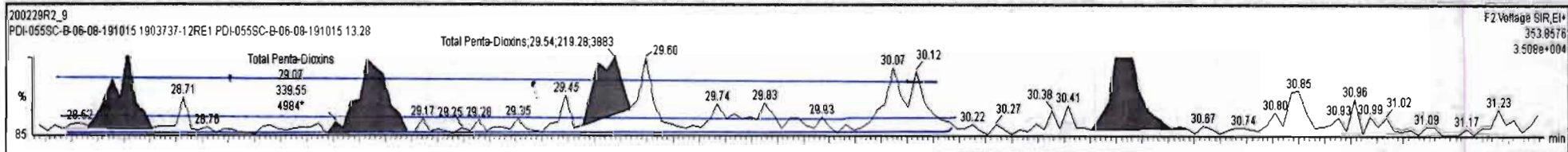


F2:Voltage SIR,EI+
367.895
1.748e+007



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.5723	10.016	29.96		0.000		NO	0.1539		0.0490	0.2900
41	Total Hexa-Dioxins				0.5211	10.016	33.63		0.000		NO	0.8051		0.0657	1.192

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.96	28.61	2.566e2	5.018e2	0.630	0.51	YES	0.081000	0.00000
2	Total Penta-Dioxins	29.96	29.07	3.384e2	4.736e2	0.630	0.71	NO	0.098000	0.099433
3	Total Penta-Dioxins	29.96	29.54	2.193e2	3.075e2	0.630	0.71	NO	0.065000	0.064505
4	Total Penta-Dioxins	29.96	30.51	3.629e2	2.230e2	0.630	1.63	YES	0.045000	0.00000



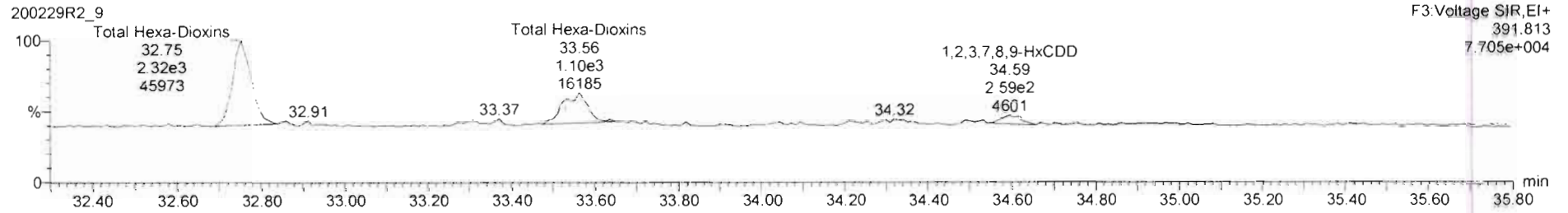
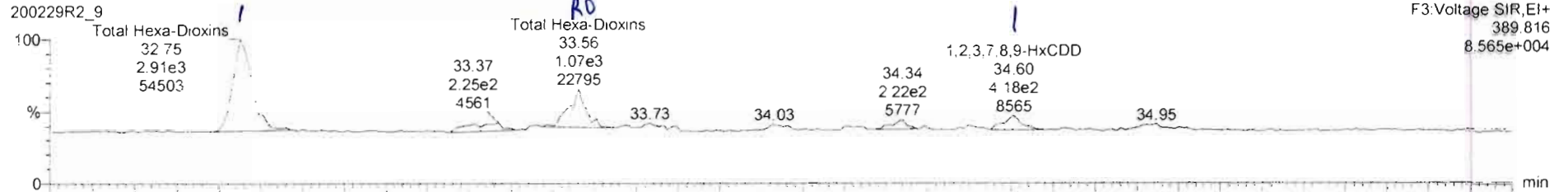
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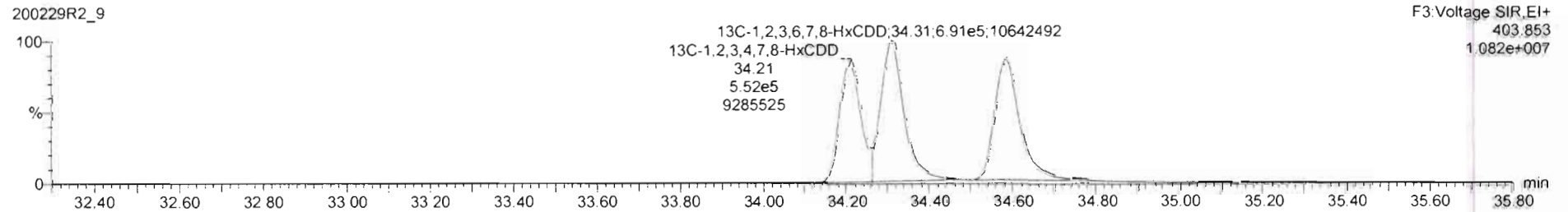
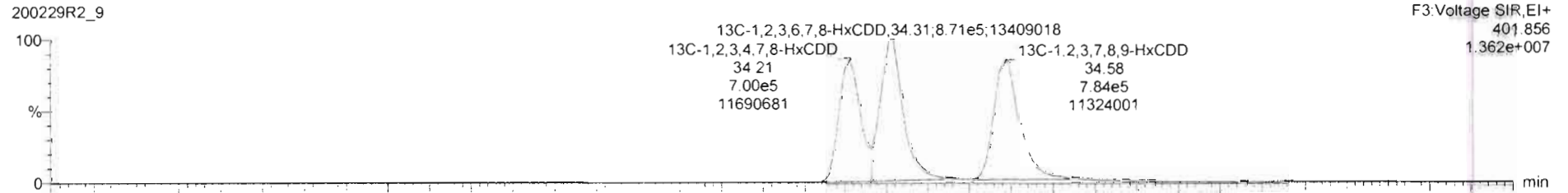
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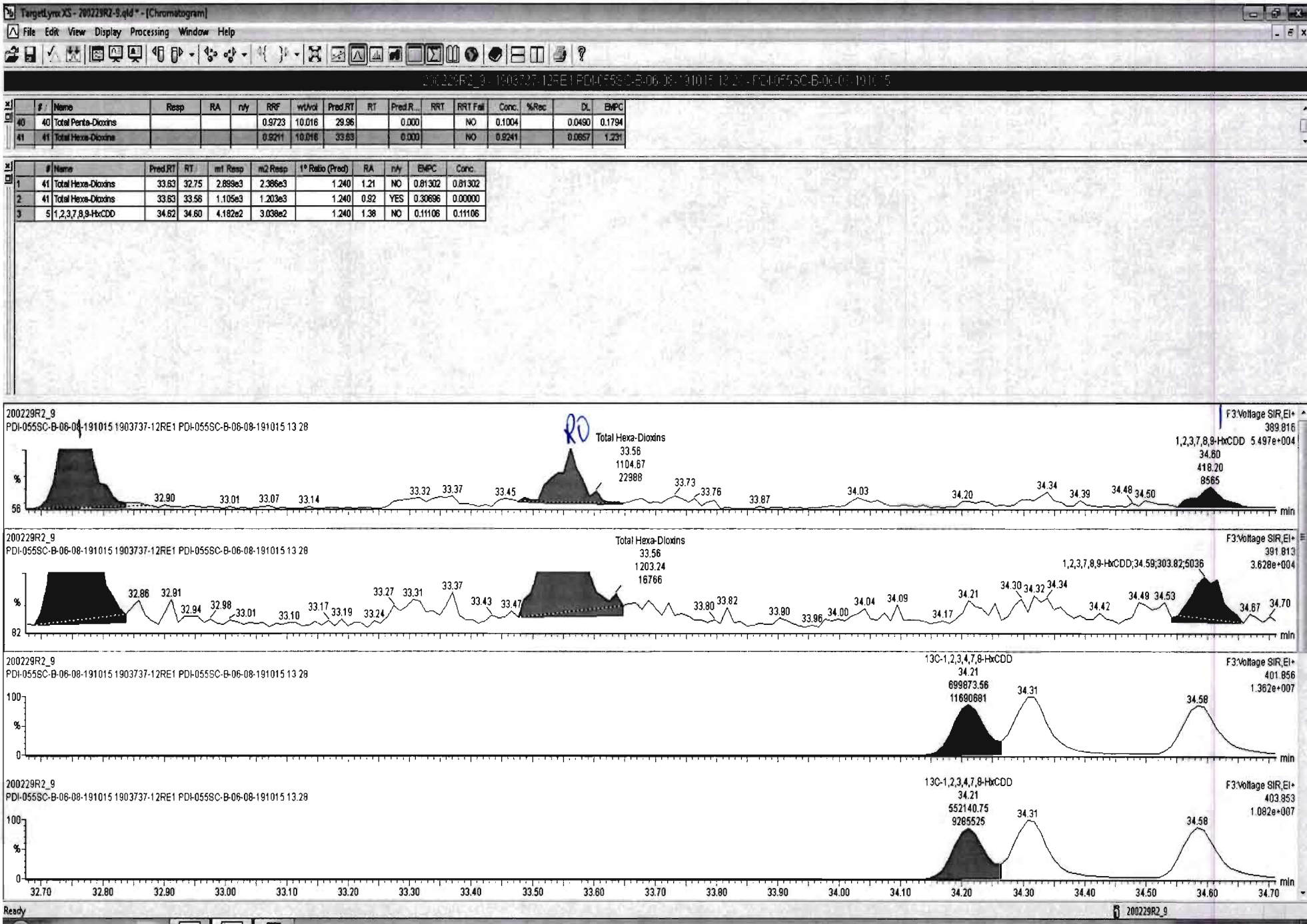
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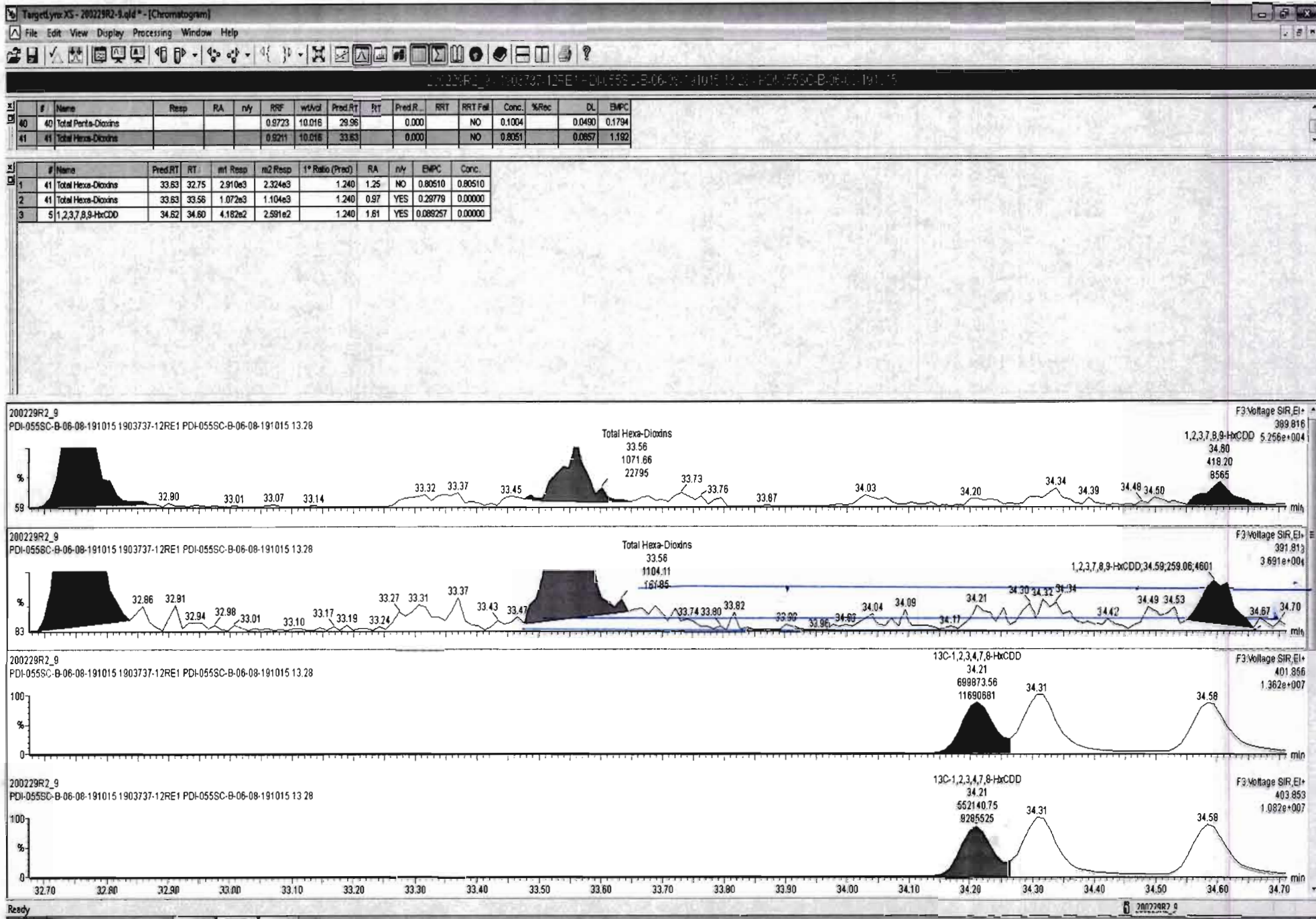
1,2,3,4,7,8-HxCDD



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







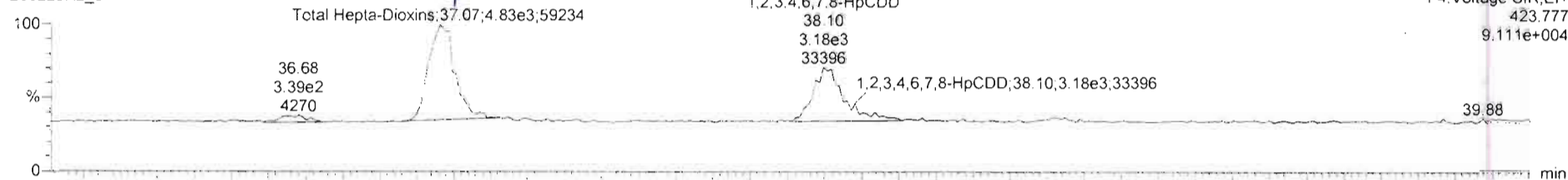
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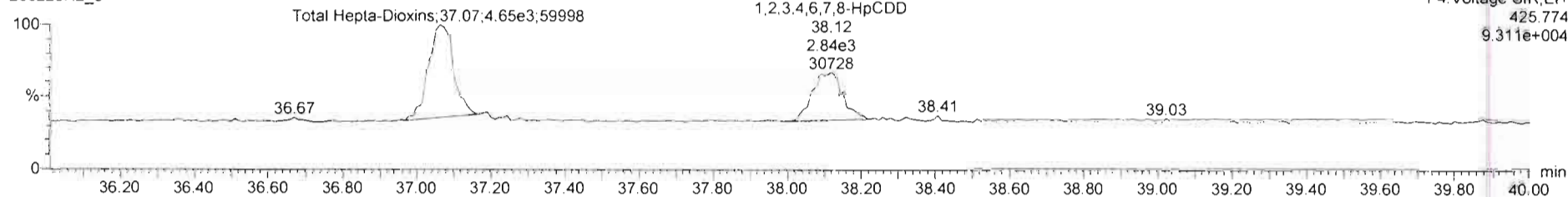
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1,2,3,4,6,7,8-HpCDD

200229R2_9

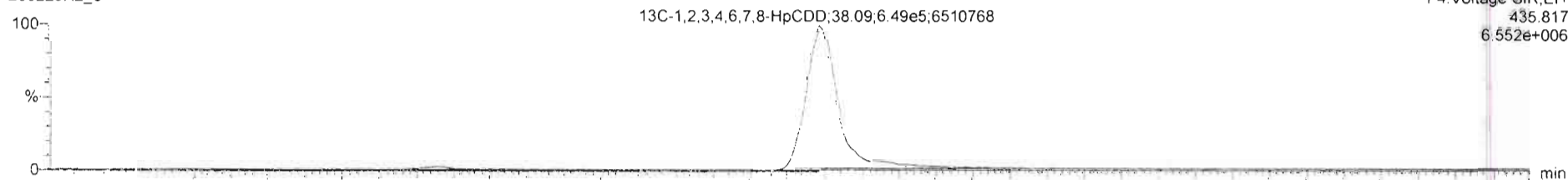


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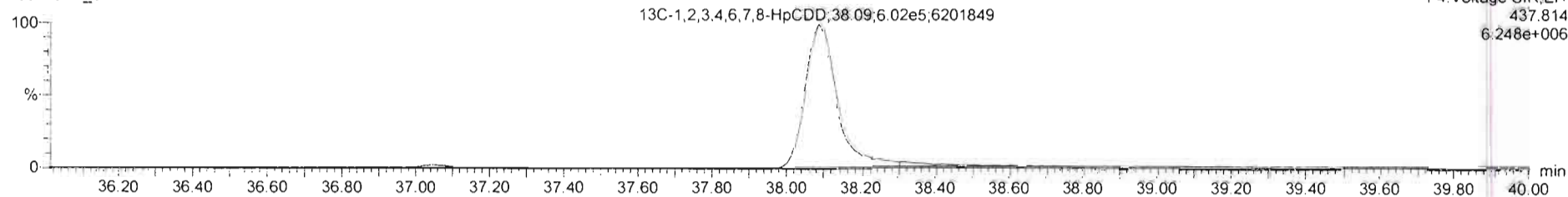


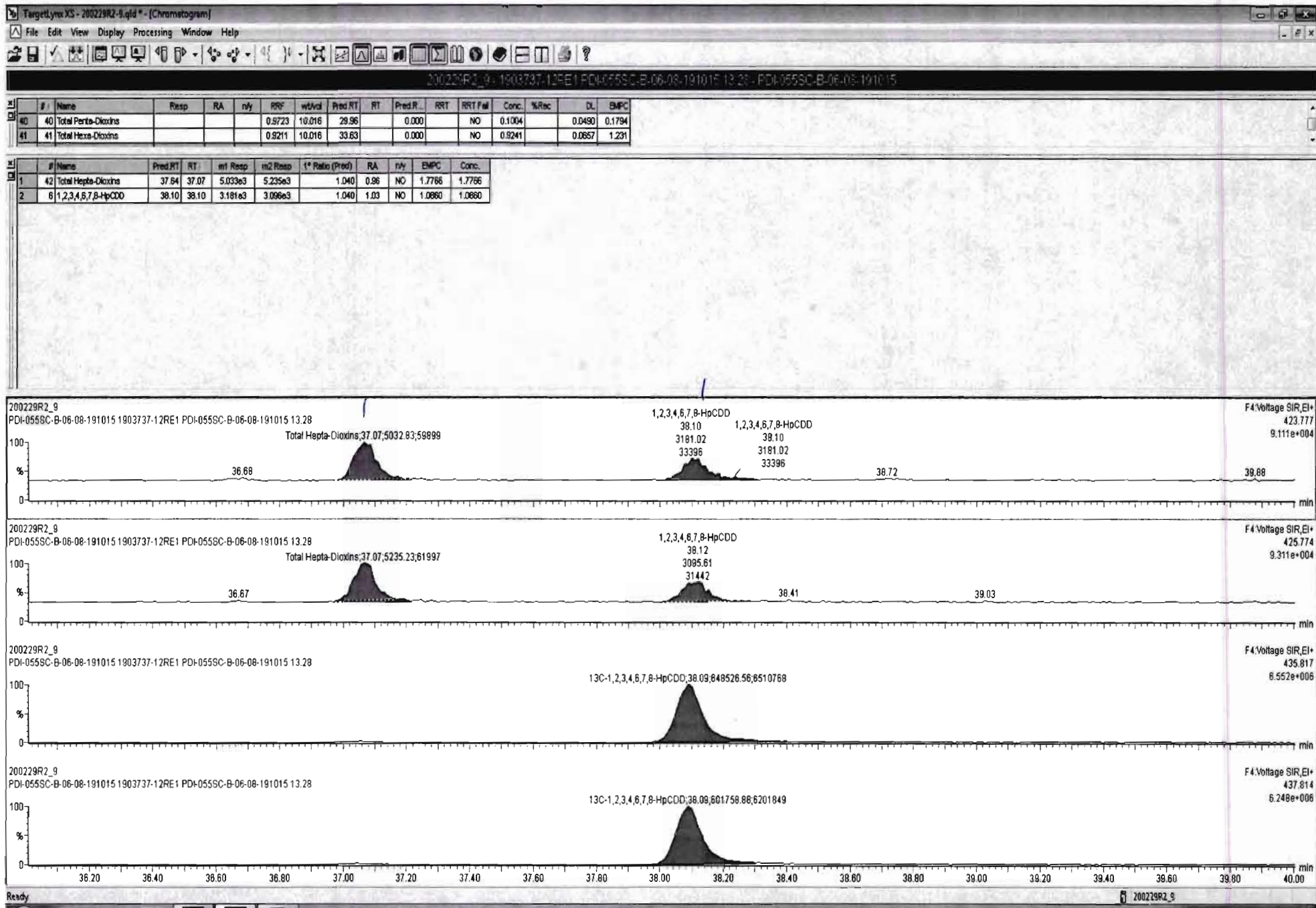
13C-1,2,3,4,6,7,8-HpCDD

200229R2_9



200229R2_9



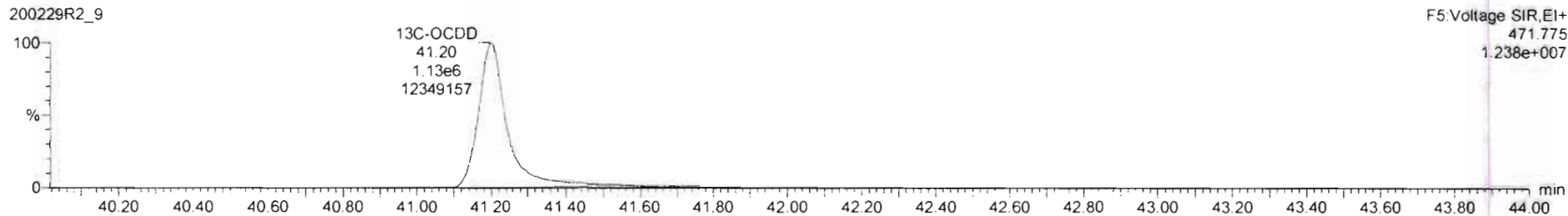
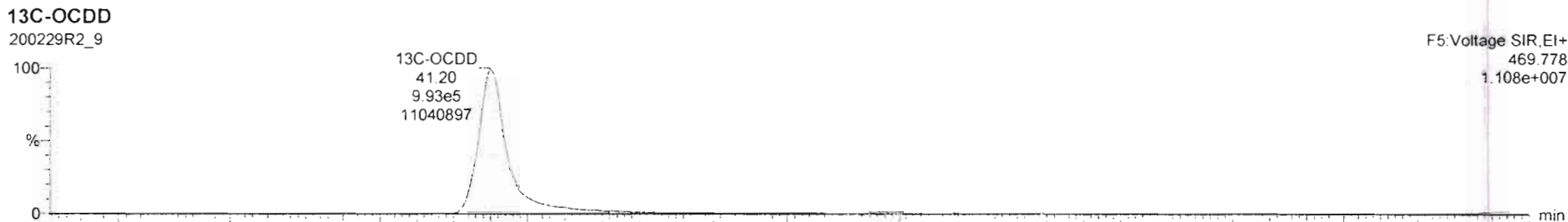
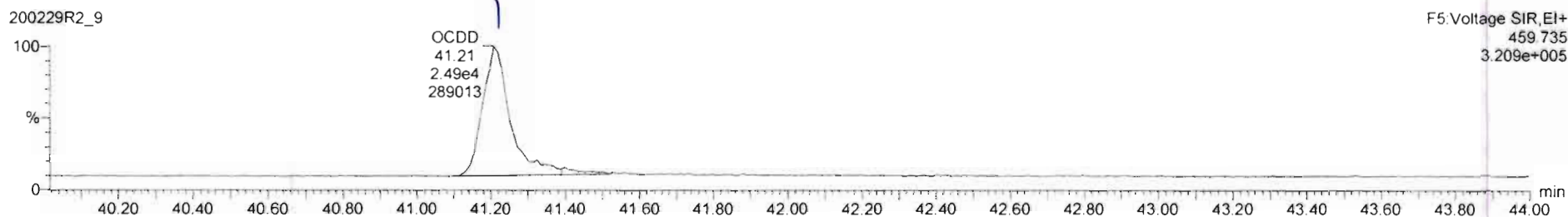
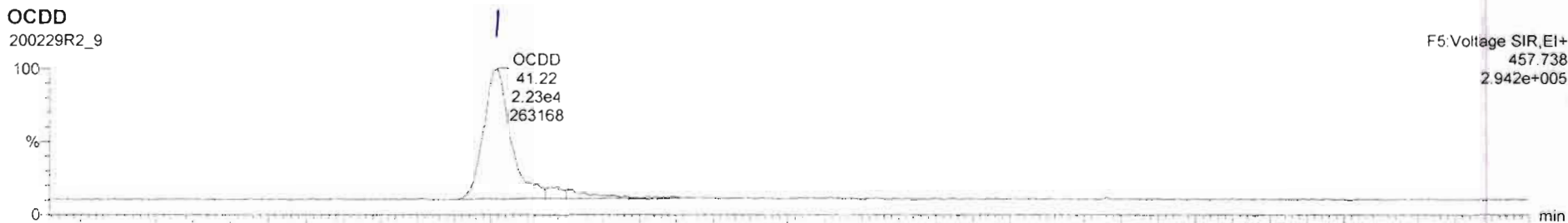


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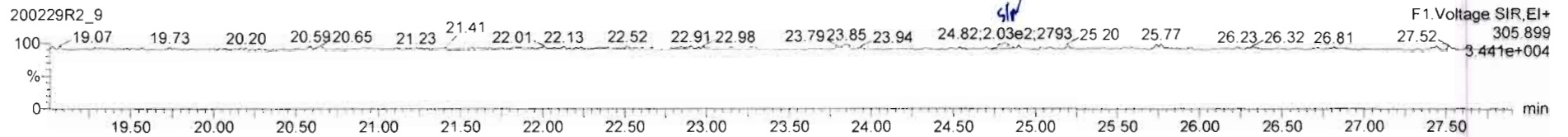
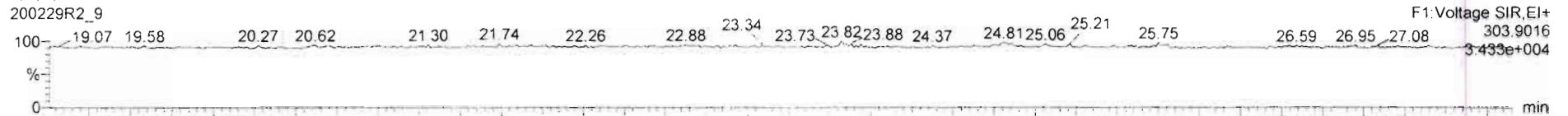
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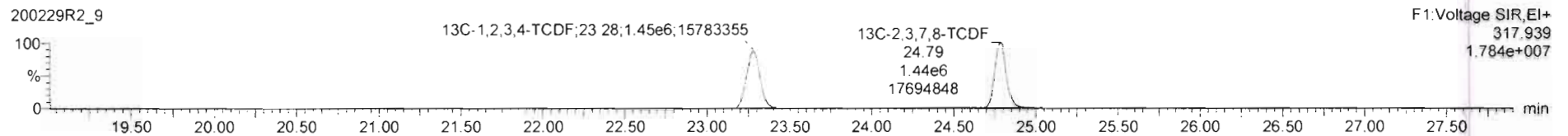
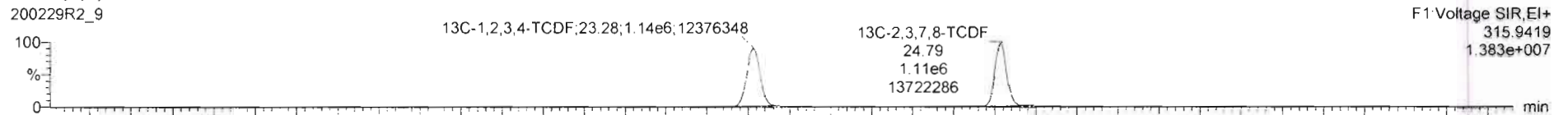
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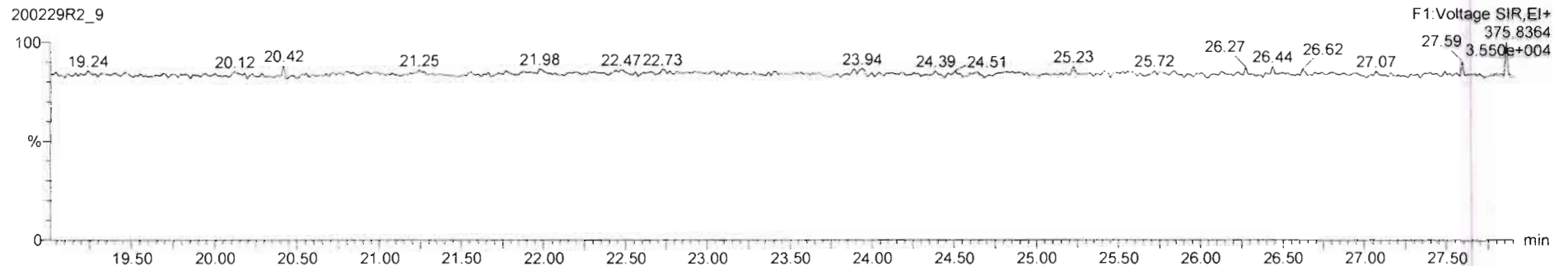
2,3,7,8-TCDF

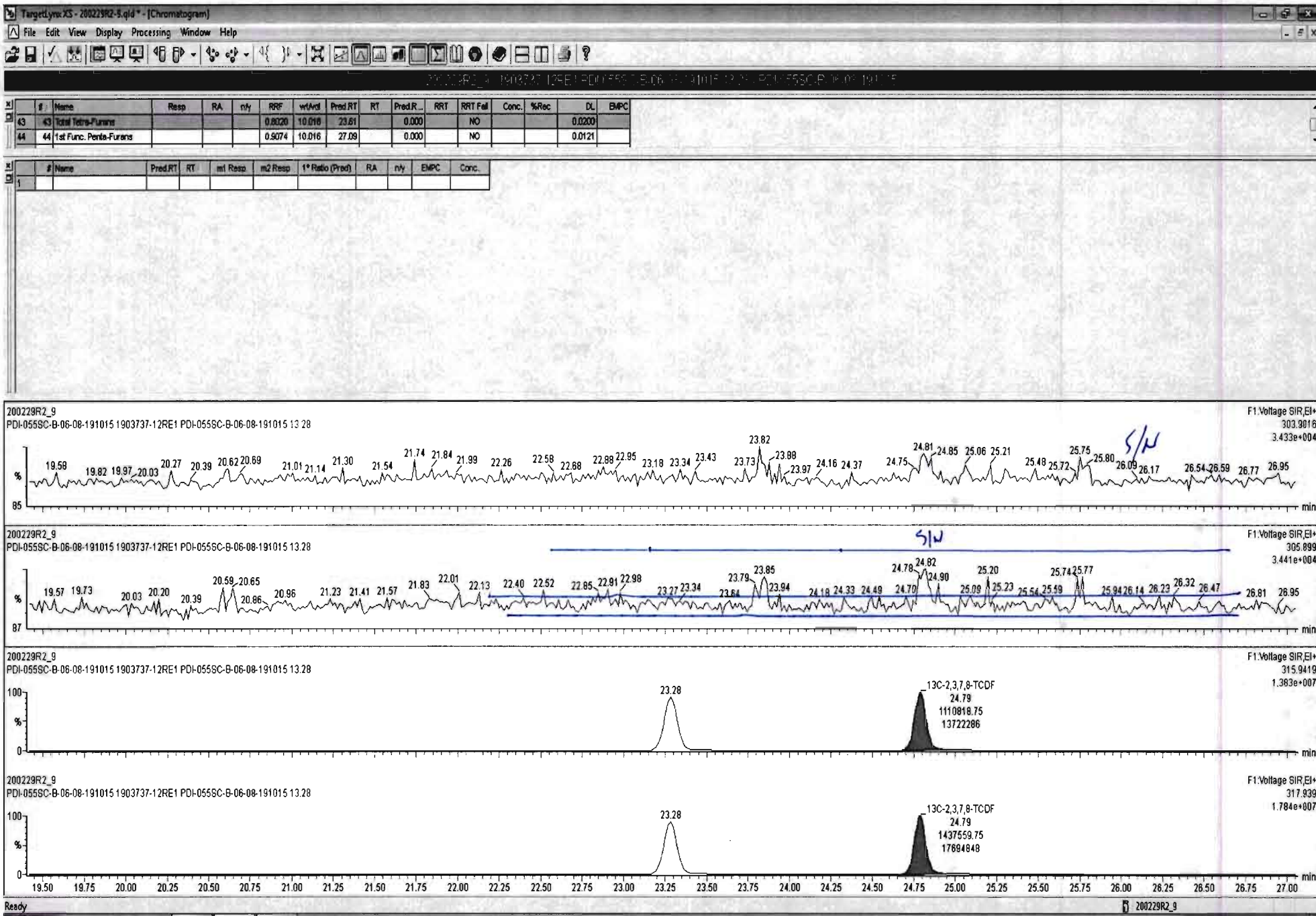


13C-2,3,7,8-TCDF



DPE1





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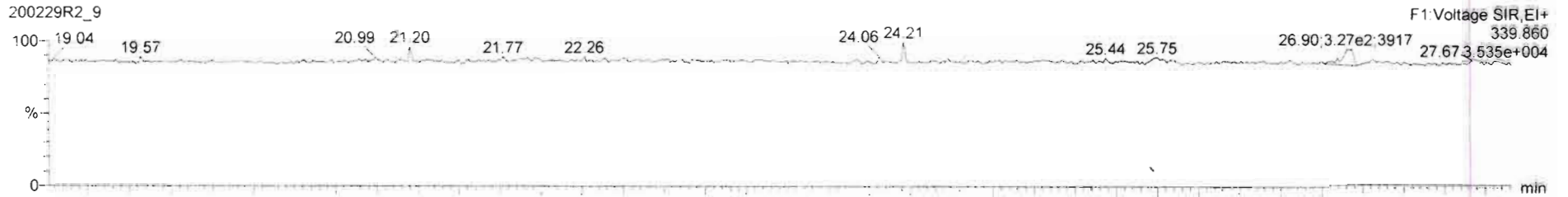
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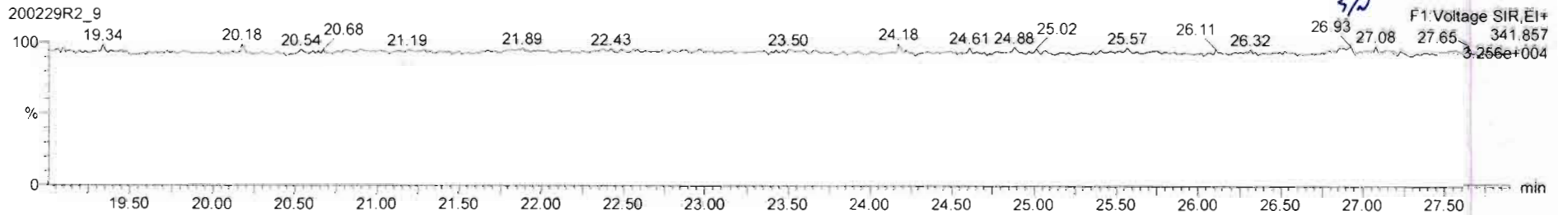
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1st Func. Penta-Furans

200229R2_9

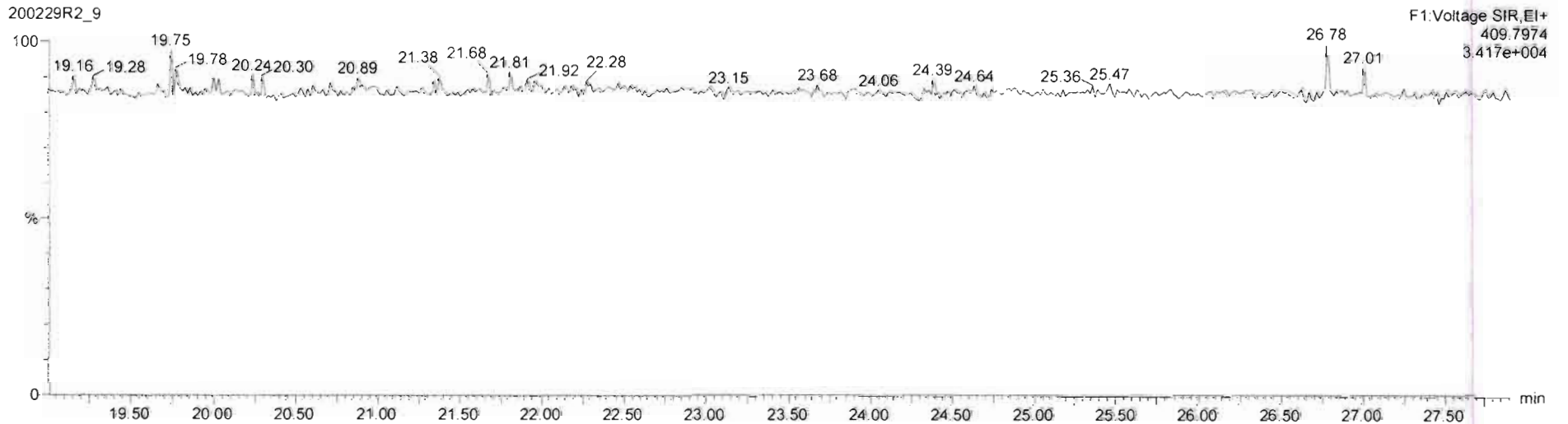


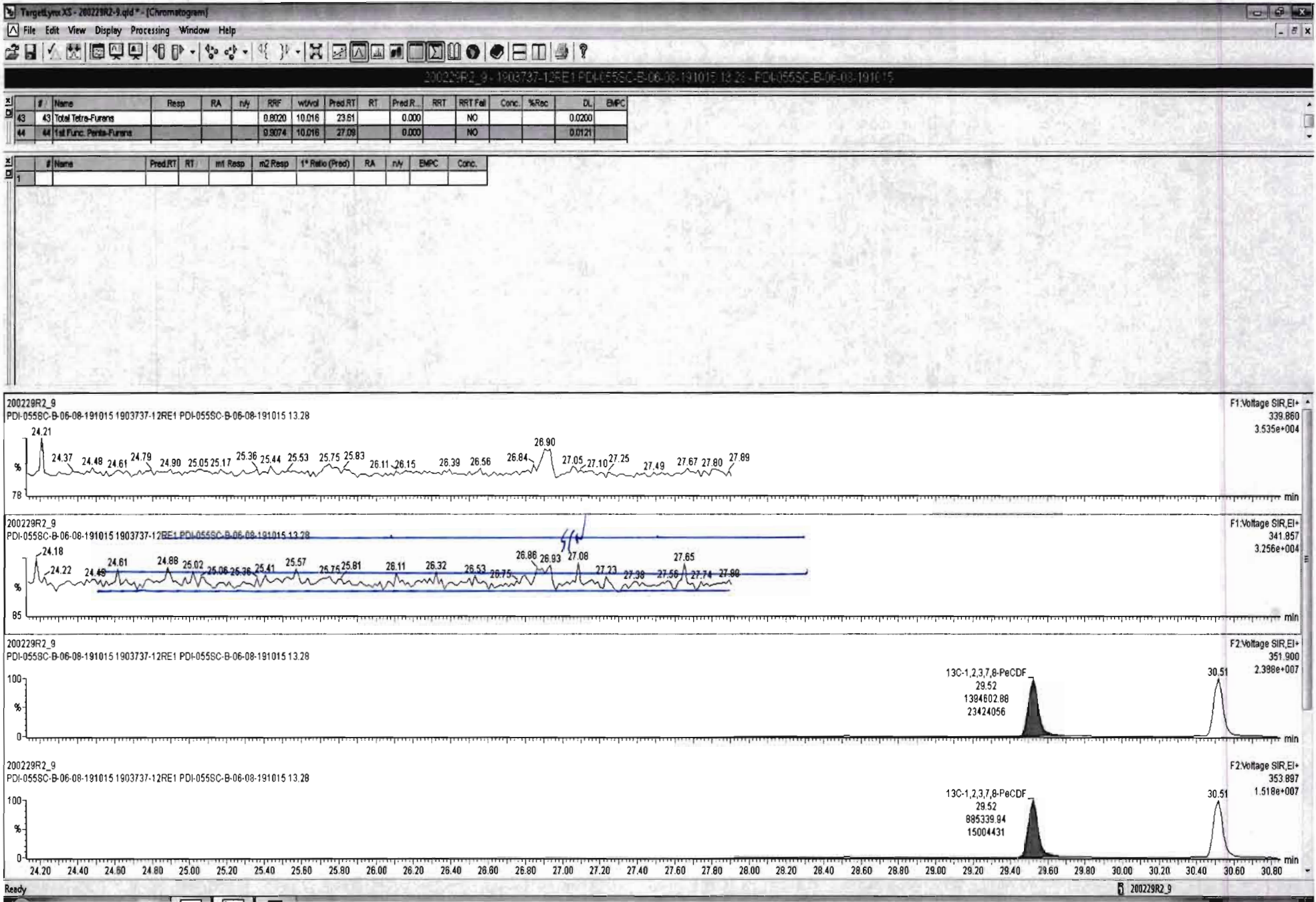
200229R2_9



DPE6

200229R2_9





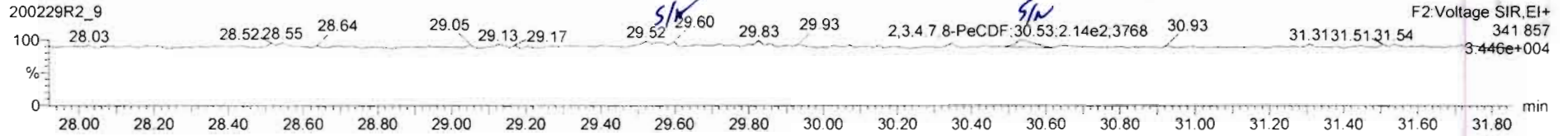
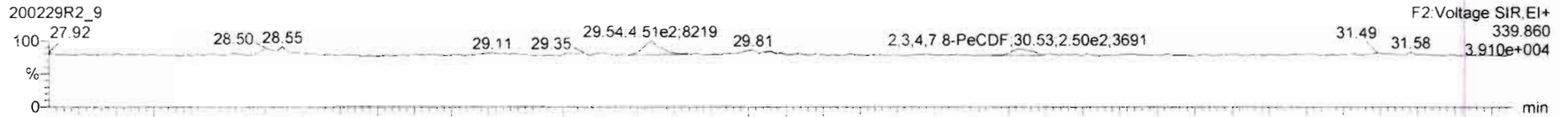
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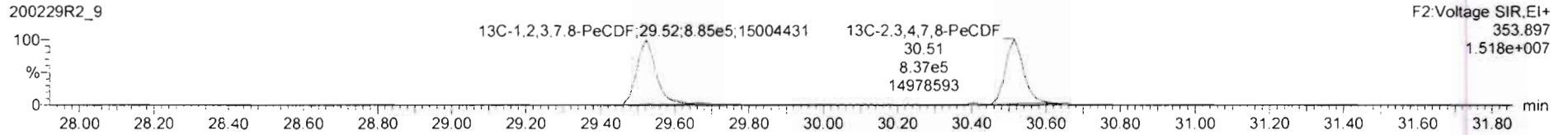
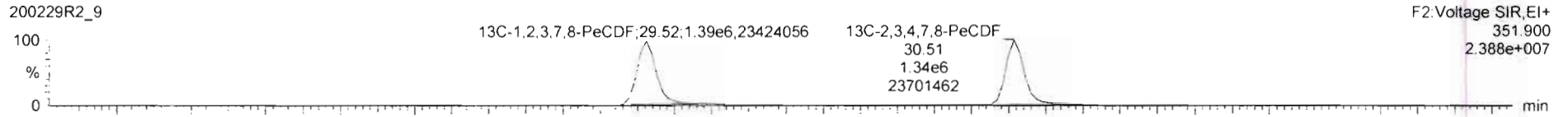
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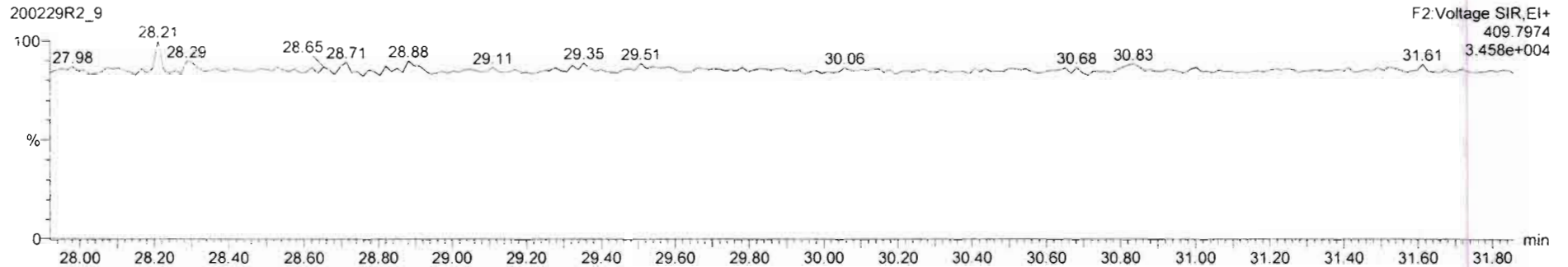
1,2,3,7,8-PeCDF



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

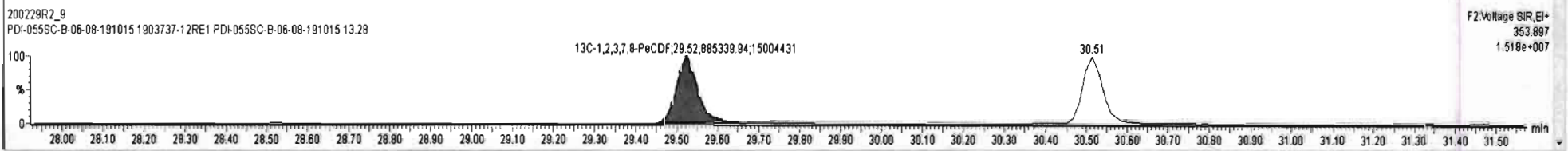
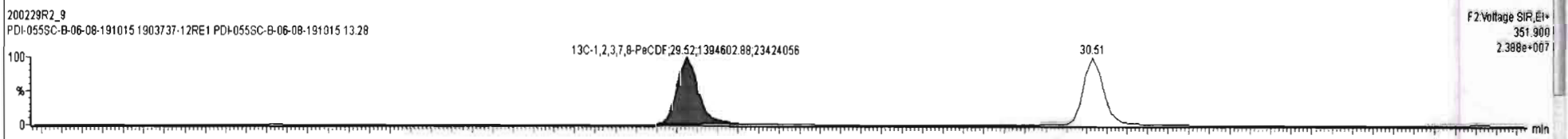
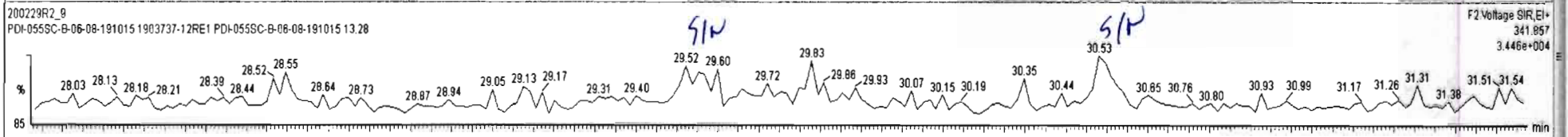
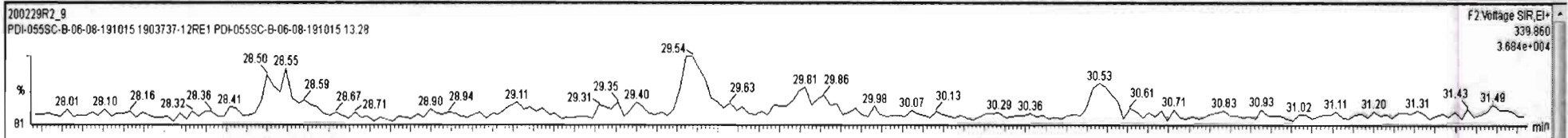


DPE2



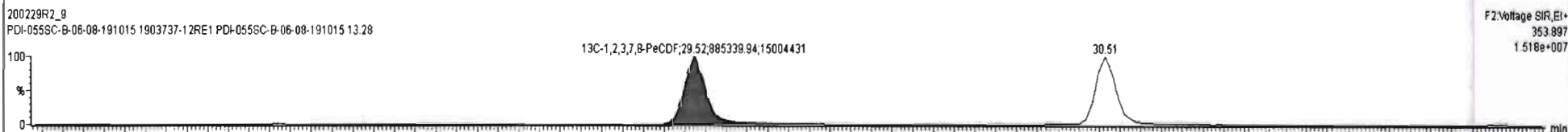
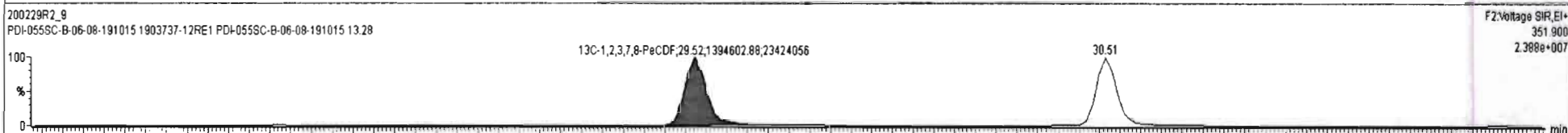
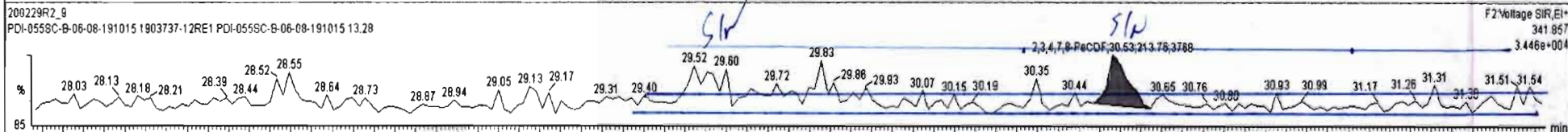
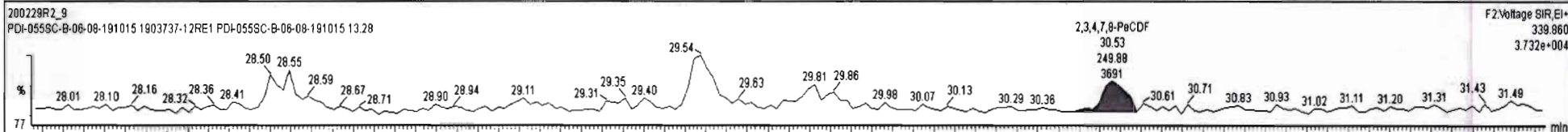
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44	1st Func. Pente-Furans				0.9074	10.016	27.09		0.000		NO			0.0121	
45	Total Pente-Furans				0.9074	10.016	28.27		0.000		NO			0.0172	
46	Total Hexa-Furans				0.8962	10.016	33.58		0.000		NO	0.1046		0.0456	0.2122
47	Total Hepta-Furans				0.8511	10.016	37.83		0.000		NO	0.0000		0.0472	0.2831
48	PFK1														

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



#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.016	27.09		0.000		NO			0.0121	
45	Total Penta-Furans				0.9074	10.016	28.27		0.000		NO	0.0000		0.0172	0.03957
46	Total Hexa-Furans				0.8982	10.016	33.56		0.000		NO	0.1046		0.0456	0.2122
47	Total Hepta-Furans				0.8511	10.016	37.83		0.000		NO	0.0000		0.0472	0.2631
48	PFK1														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	2,3,4,7,8-PeCDF	30.54	30.53	2.489e2	2.138e2	1.560	1.17	YES	0.039568	0.00000



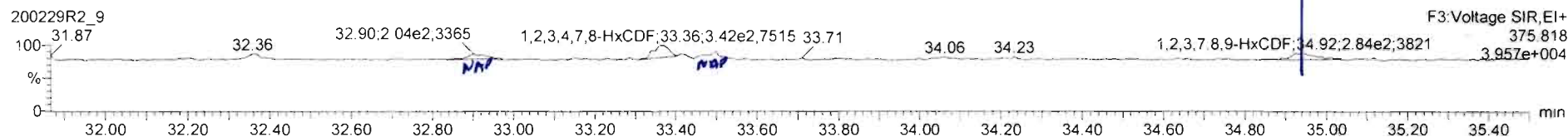
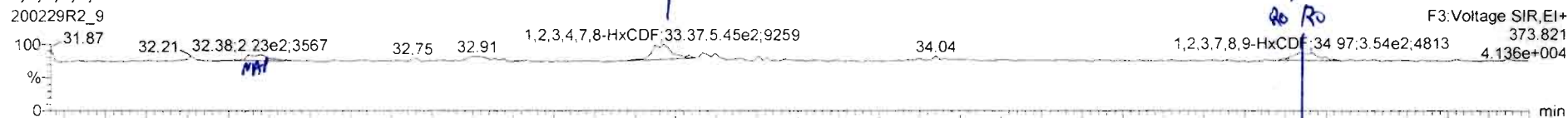
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Last Altered: Monday, March 02, 2020 10:10:28 Pacific Standard Time

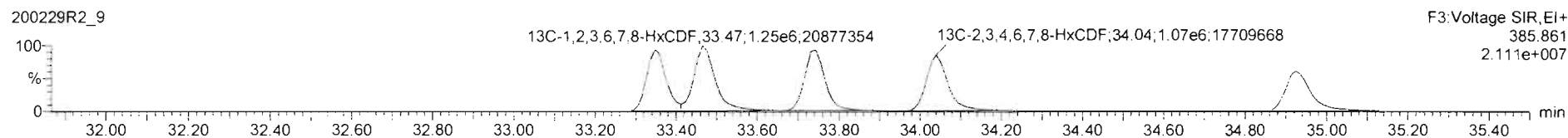
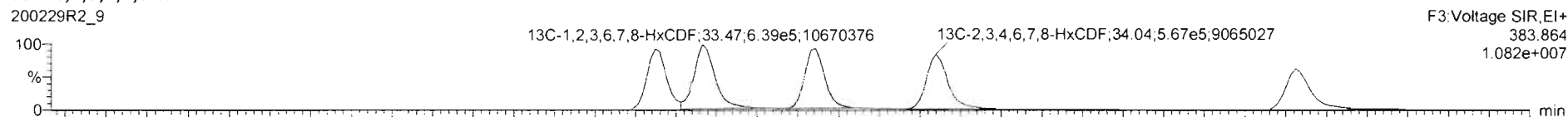
Printed: Monday, March 02, 2020 10:11:00 Pacific Standard Time

Name: 200229R2_9, Date: 01-Mar-2020, Time: 05:33:03, ID: 1903737-12RE1 PDI-055SC-B-06-08-191015 13.28, Description: PDI-055SC-B-06-08-191015

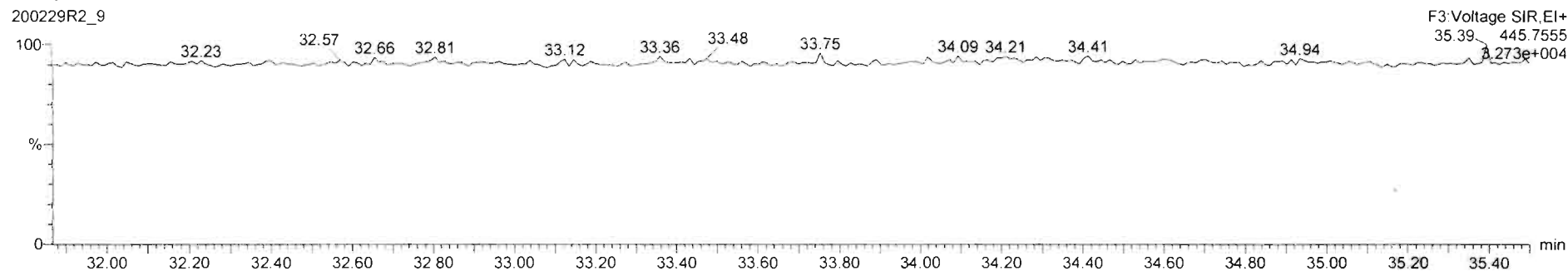
1,2,3,4,7,8-HxCDF

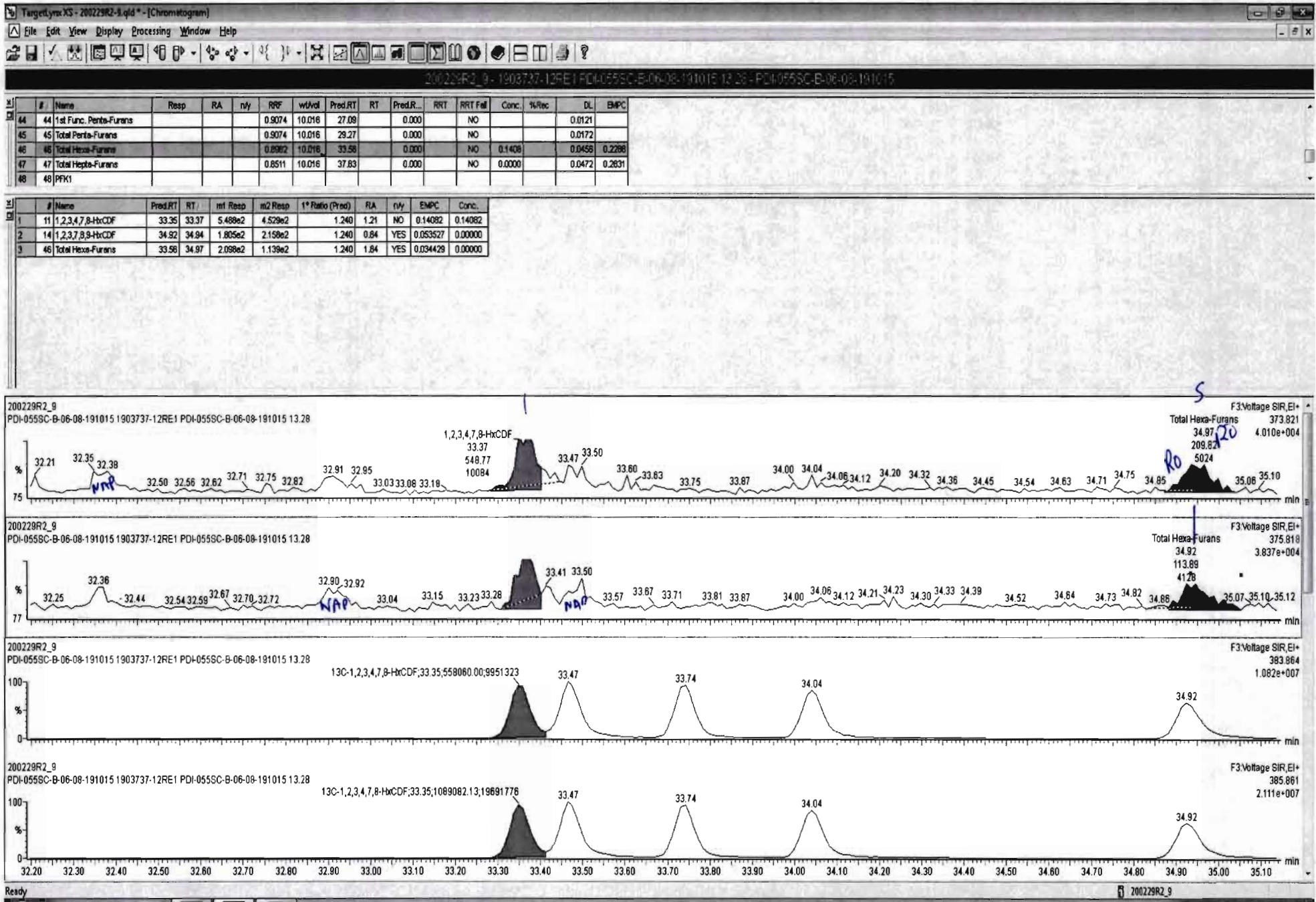


13C-1,2,3,4,7,8-HxCDF



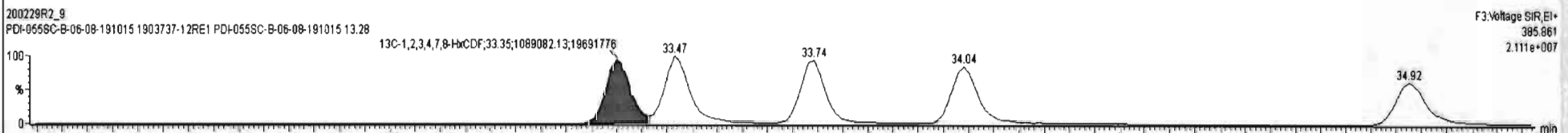
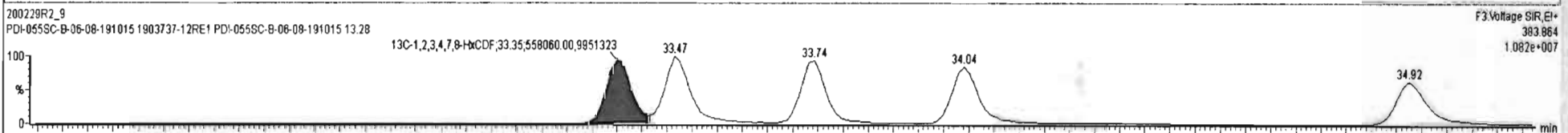
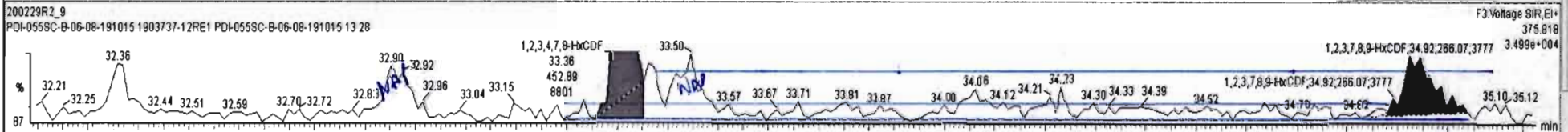
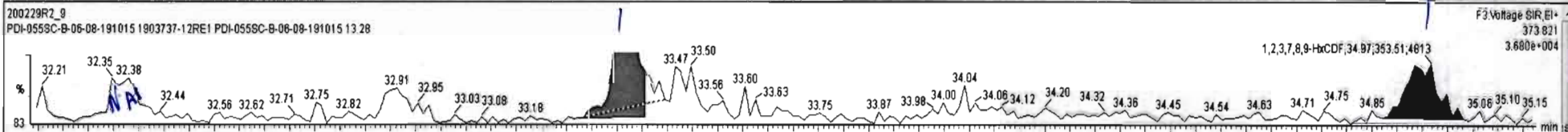
DPE3





#	Name	Resp	RA	n/y	RRF	wtVol	Prod.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.9074	10.016	27.09		0.000		NO			0.0121	
45	Total Penta-Furans				0.9074	10.016	29.27		0.000		NO			0.0172	
46	Total Hexa-Furans				0.8982	10.016	33.58		0.000		NO	0.2425		0.0458	0.2425
47	Total Hepta-Furans				0.8511	10.016	37.83		0.000		NO	0.0000		0.0472	0.2831
48	PFK1														

#	Name	Prod.RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc.
1	11 1,2,3,4,7,8-HxCDF	33.35	33.37	5.489e2	4.529e2	1.240	1.21	NO	0.14082	0.14082
2	14 1,2,3,7,8,9-HxCDF	34.82	34.97	3.535e2	2.661e2	1.240	1.33	NO	0.10168	0.10168

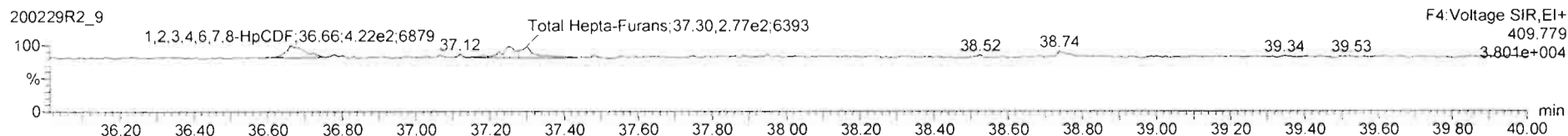
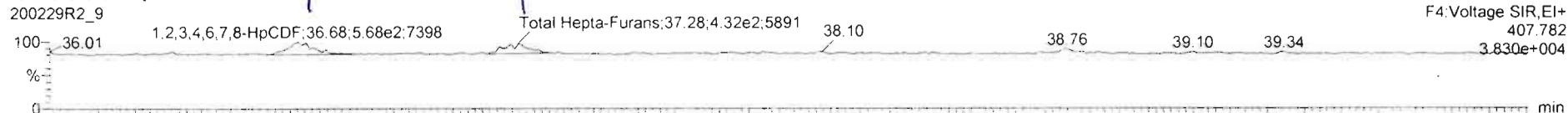


Dataset: Untitled

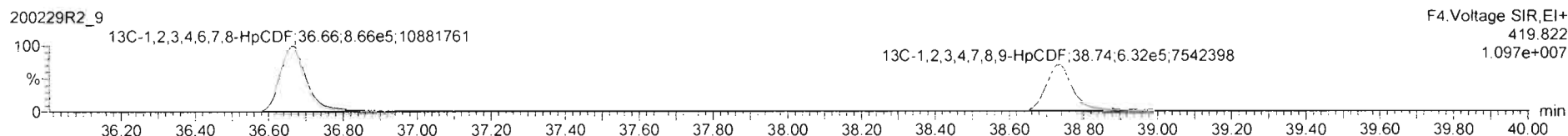
Last Altered: Monday, March 02, 2020 10:10:28 Pacific Standard Time
Printed: Monday, March 02, 2020 10:11:00 Pacific Standard Time

Name: 200229R2_9, Date: 01-Mar-2020, Time: 05:33:03, ID: 1903737-12RE1 PDI-055SC-B-06-08-191015 13.28, Description: PDI-055SC-B-06-08-191015

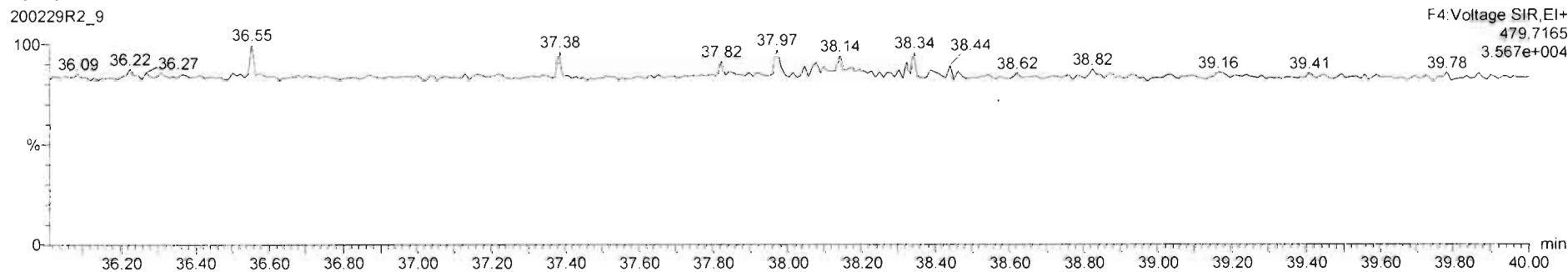
1,2,3,4,6,7,8-HpCDF



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



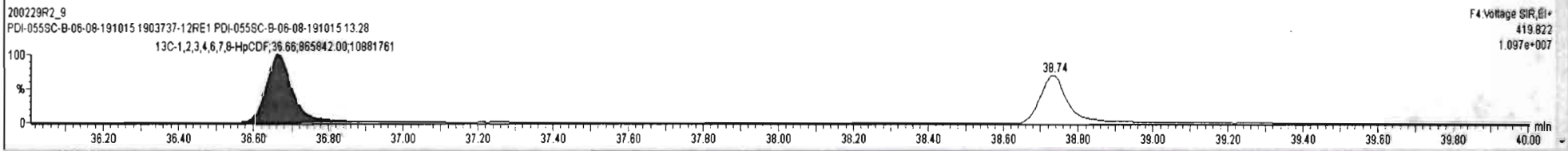
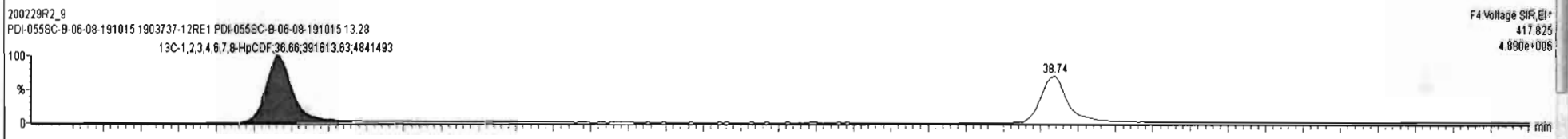
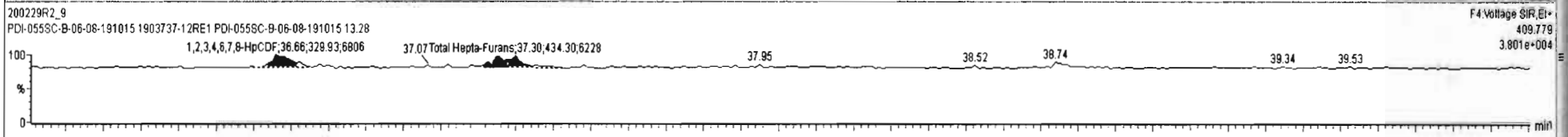
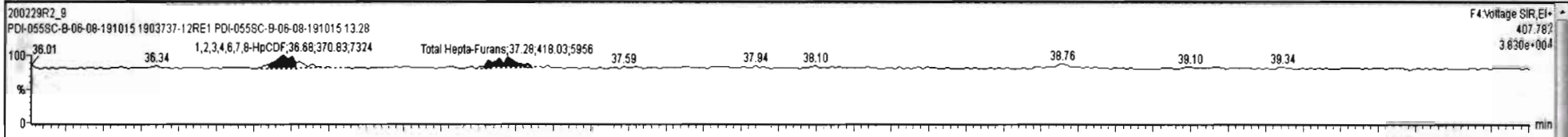
DPE4



200229R2_9 - 1903737-12RE1 PDI-0555C-B-06-08-191015 13.28 - PDI-0555C-B-06-08-191015

#	Name	Resp	RA	n/y	RRF	wtAvcl	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec.	DL	EMPC
44	44 1st Func. Penta-Furans				0.9074	10.016	27.09		0.000		NO			0.0121	
45	45 Total Penta-Furans				0.9074	10.016	29.27		0.000		NO			0.0172	
46	46 Total Hexa-Furans				0.8982	10.016	33.56		0.000		NO	0.1408		0.0456	0.2288
47	47 Total Hepta-Furans				0.8911	10.016	37.83		0.000		NO	0.1307		0.101	0.3154
48	48 PFK1														

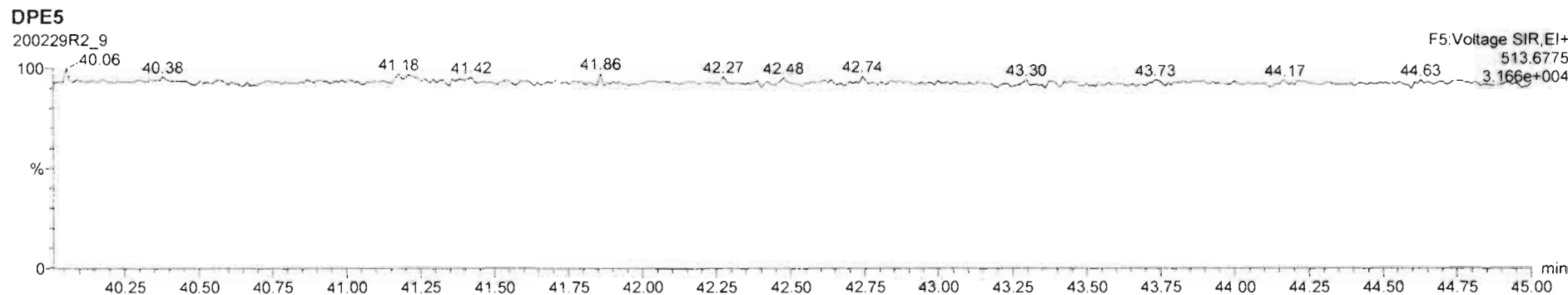
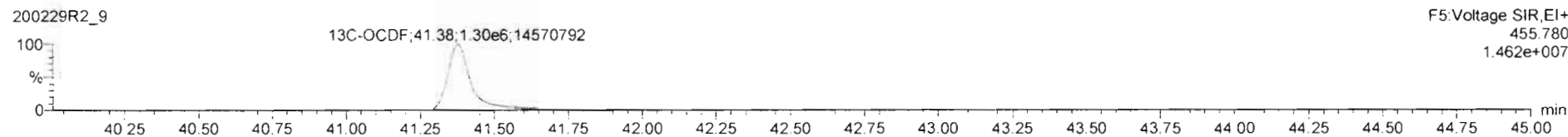
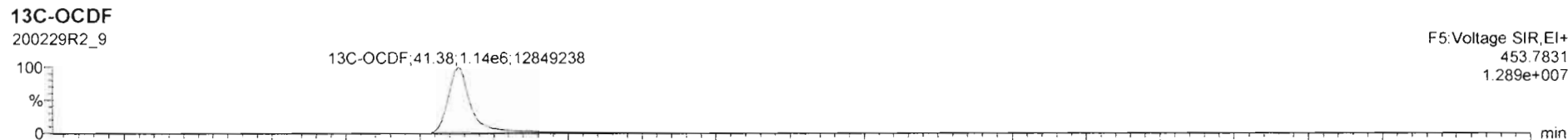
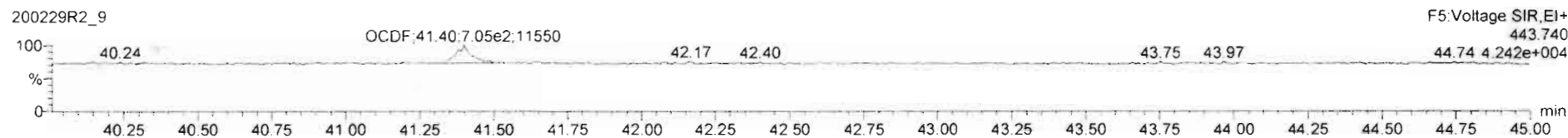
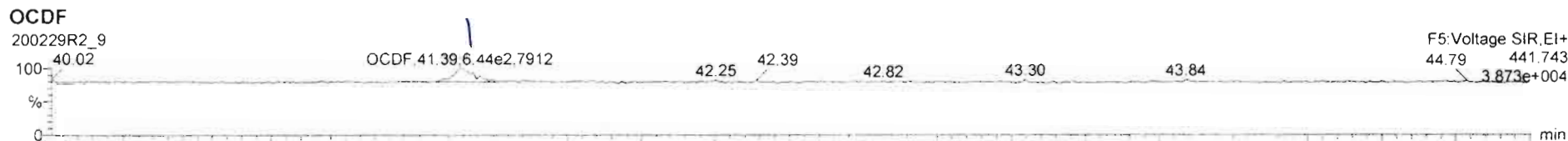
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	15 1,2,3,4,6,7,8-HpCDF	36.70	36.68	3.708e2	3.269e2	1.040	1.12	NO	0.13075	0.13075
2	47 Total Hepta-Furans	37.83	37.28	4.180e2	4.343e2	1.040	0.86	NO	0.18461	0.00000



Dataset: Untitled

Last Altered: Monday, March 02, 2020 10:10:28 Pacific Standard Time
Printed: Monday, March 02, 2020 10:11:00 Pacific Standard Time

Name: 200229R2_9, Date: 01-Mar-2020, Time: 05:33:03, ID: 1903737-12RE1 PDI-055SC-B-06-08-191015 13.28, Description: PDI-055SC-B-06-08-191015

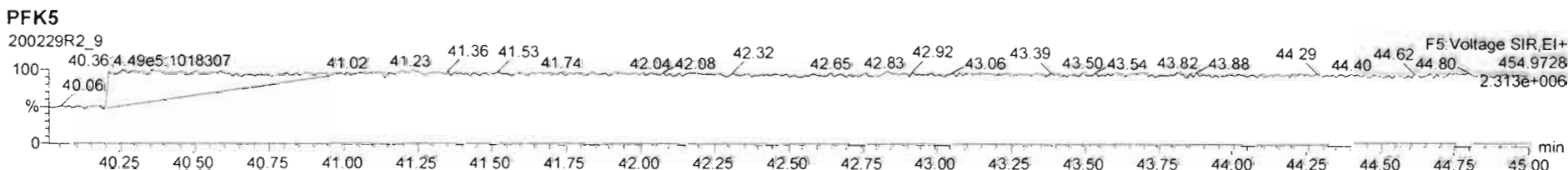
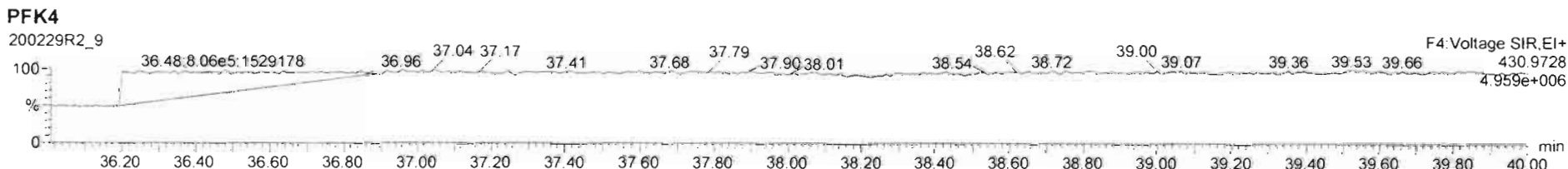
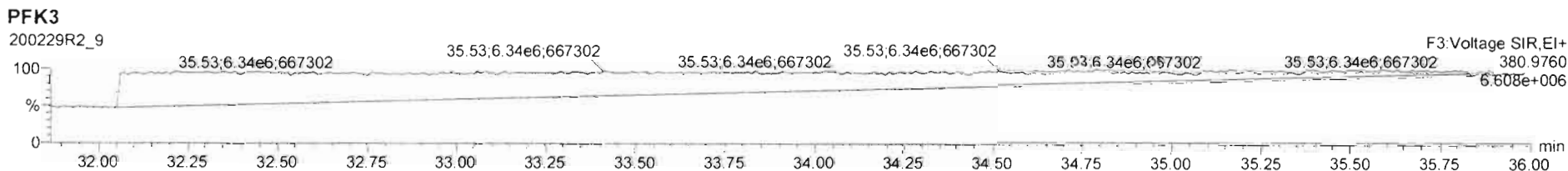
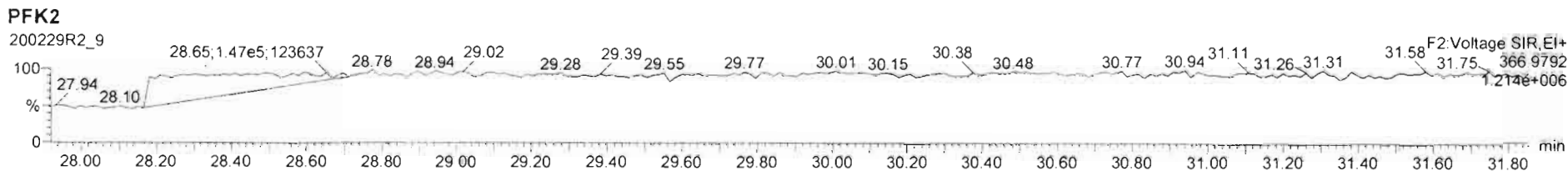
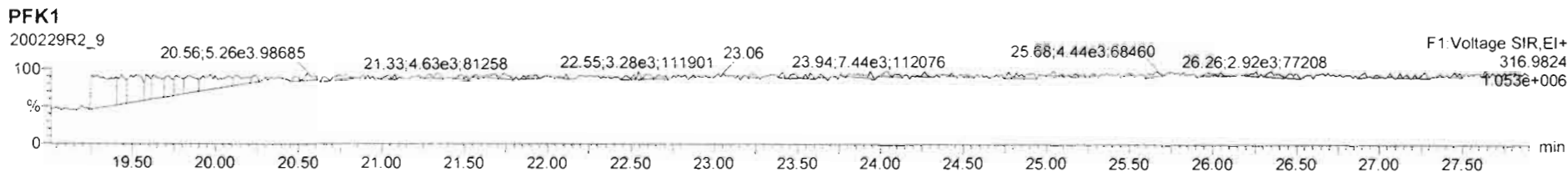


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Last Altered: Monday, March 02, 2020 10:10:28 Pacific Standard Time

Printed: Monday, March 02, 2020 10:11:00 Pacific Standard Time

Name: 200229R2_9, Date: 01-Mar-2020, Time: 05:33:03, ID: 1903737-12RE1 PDI-055SC-B-06-08-191015 13.28, Description: PDI-055SC-B-06-08-191015



CONFIRMATION

Dataset: U:\VG12.PRO\Results\200311R4\200311R4-5.qld

Last Altered: Thursday, March 12, 2020 10:09:37 Pacific Daylight Time

Printed: Thursday, March 12, 2020 10:10:32 Pacific Daylight Time

GRB 03/12/2020

0703/16/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_5, Date: 12-Mar-2020, Time: 08:28:07, ID: 1903737-01RE2 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.10e5	0.75	NO	0.821	10.011	16.56	10.371		0.266
2	2 13C-2,3,7,8-TCDF	2.58e6	0.78	NO	1.10	10.011	16.54	167.39	83.8	0.244
3	3 13C-1,2,3,4-TCDF	2.79e6	0.79	NO	1.00	10.011	14.45	199.78	100	0.269

Dataset: Untitled

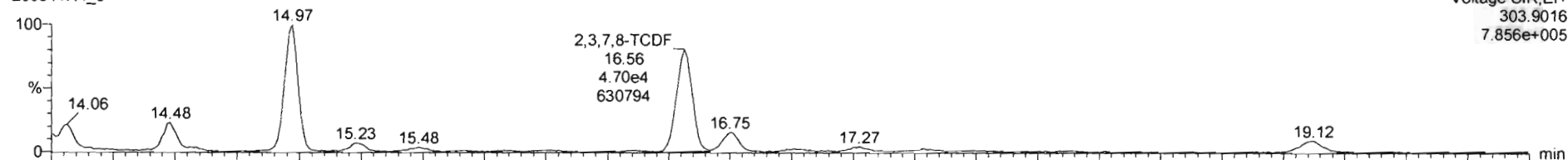
Last Altered: Thursday, March 12, 2020 10:08:37 Pacific Daylight Time
Printed: Thursday, March 12, 2020 10:09:18 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

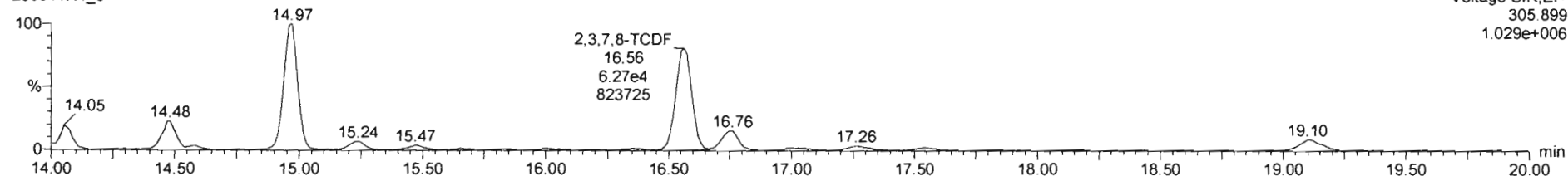
Name: 200311R4_5, Date: 12-Mar-2020, Time: 08:28:07, ID: 1903737-01RE2 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

2,3,7,8-TCDF

200311R4_5

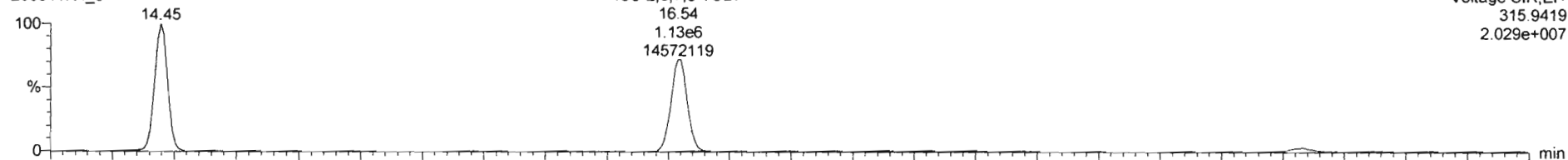


200311R4_5

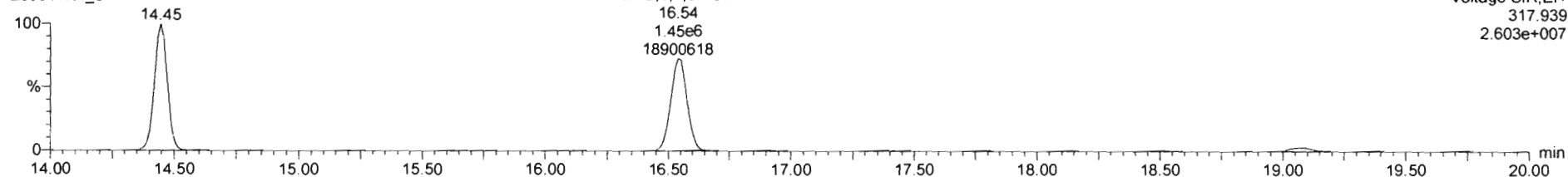


13C-2,3,7,8-TCDF

200311R4_5



200311R4_5



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, March 12, 2020 10:08:37 Pacific Daylight Time

Printed: Thursday, March 12, 2020 10:09:18 Pacific Daylight Time

Sample Name: 200311R4_5, Date: 12-Mar-2020, Time: 08:28:07, ID: 1903737-01RE2 PDI-049SC-B-00-02-191015 19.15, Description: PDI-049SC-B-00-02-191015

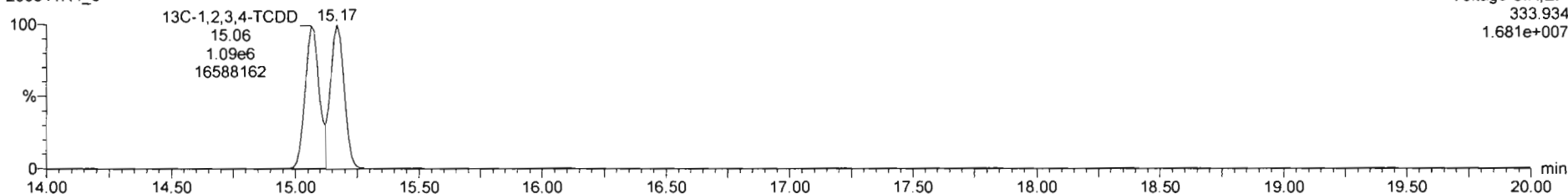
13C-1,2,3,4-TCDD

200311R4_5



Voltage SIR,EI+ 331.9368 1.322e+007

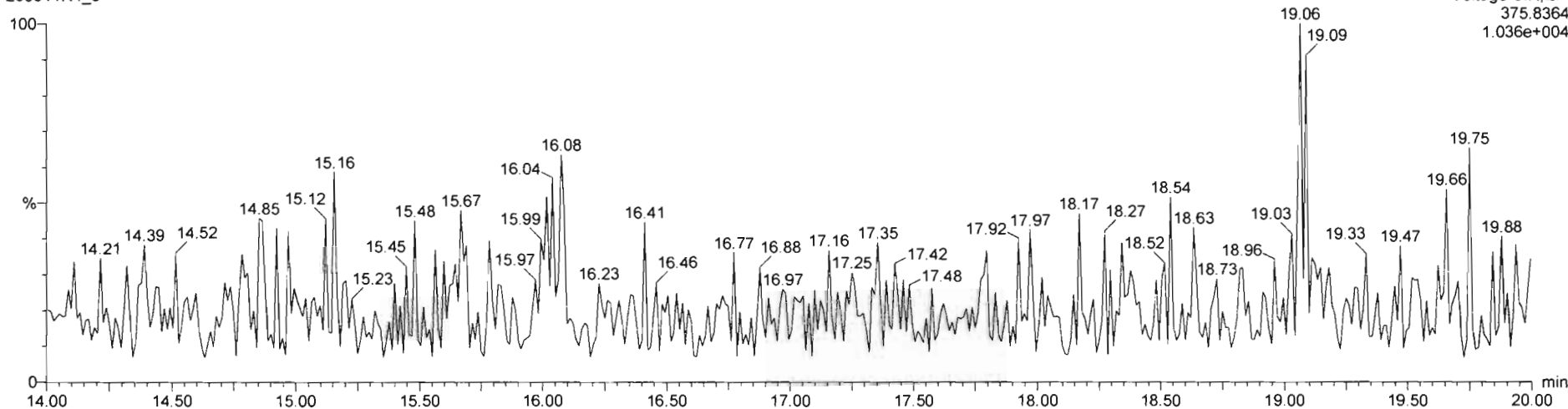
200311R4_5



Voltage SIR,EI+ 333.934 1.681e+007

DPE1

200311R4_5



Voltage SIR,EI+ 375.8364 1.036e+004

Dataset: U:\VG12.PRO\Results\200311R4\200311R4-6.qld

Last Altered: Thursday, March 12, 2020 10:11:39 Pacific Daylight Time

Printed: Thursday, March 12, 2020 10:12:13 Pacific Daylight Time

GRB 03/12/2020

C7 03/16/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_6, Date: 12-Mar-2020, Time: 08:58:31, ID: 1903737-02RE2 PDI-049SC-B-02-04-191015 18.65, Description: PDI-049SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.15e5	0.76	NO	0.821	10.010	✓ 16.58	32.625		0.232
2	2 13C-2,3,7,8-TCDF	2.35e6	0.78	NO	1.10	10.010	16.55	156.65	78.4	0.477
3	3 13C-1,2,3,4-TCDF	2.73e6	0.80	NO	1.00	10.010	14.46	199.81	100	0.525

Dataset: Untitled

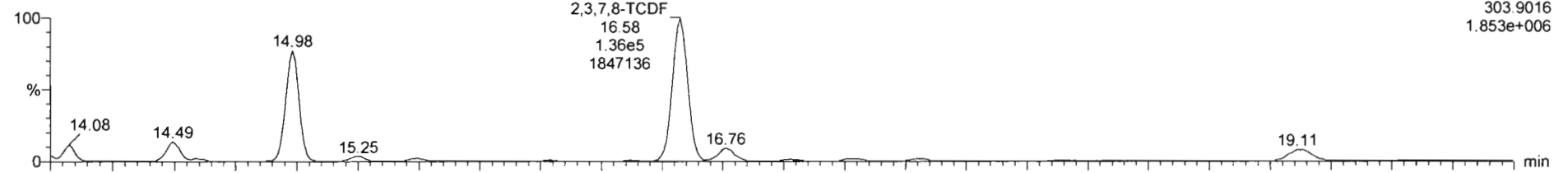
Last Altered: Thursday, March 12, 2020 10:08:37 Pacific Daylight Time

Printed: Thursday, March 12, 2020 10:09:18 Pacific Daylight Time

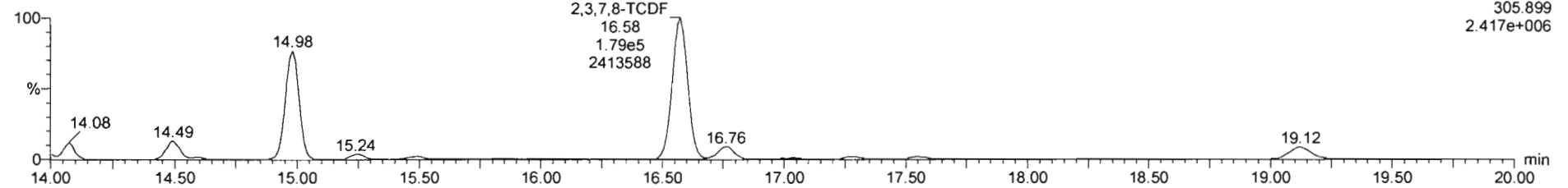
1, ID: 1903737-02RE2 PDI-049SC-B-02-04-191015 18.65, Description: PDI-049SC-B-02-04-191015

2,3,7,8-TCDF

200311R4_6

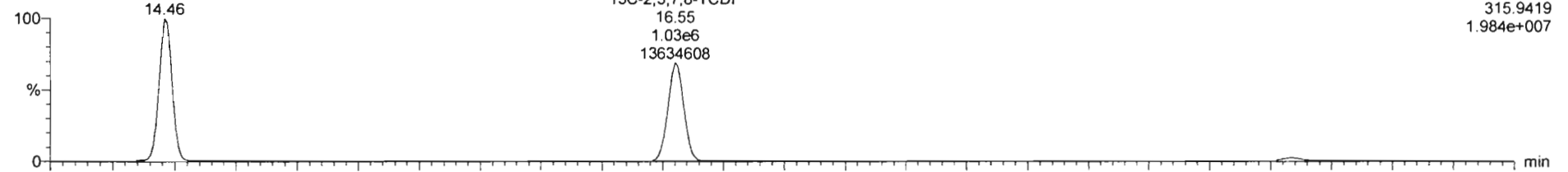


200311R4_6

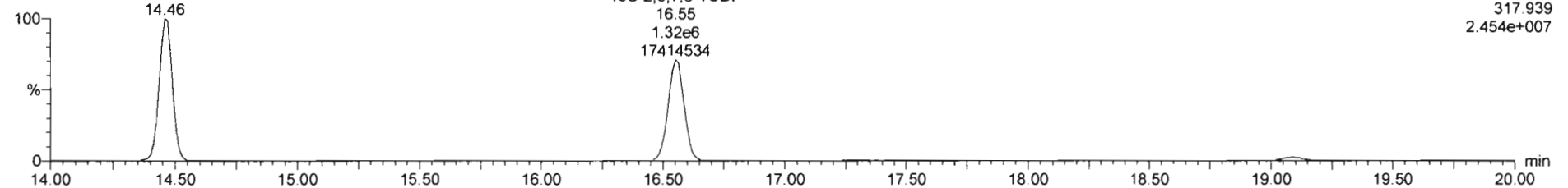


13C-2,3,7,8-TCDF

200311R4_6



200311R4_6



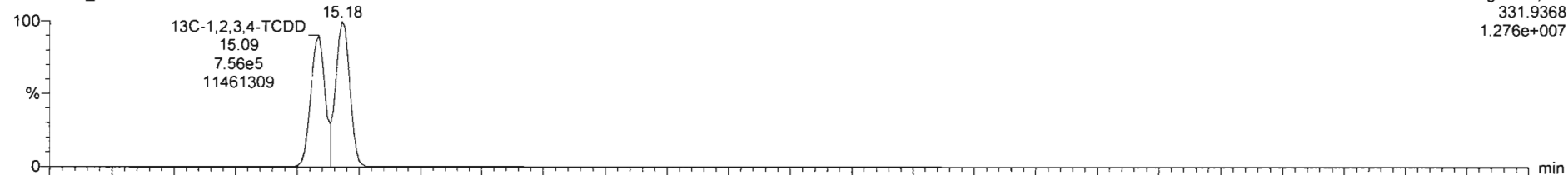
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Printed: Thursday, March 12, 2020 10:09:18 Pacific Daylight Time

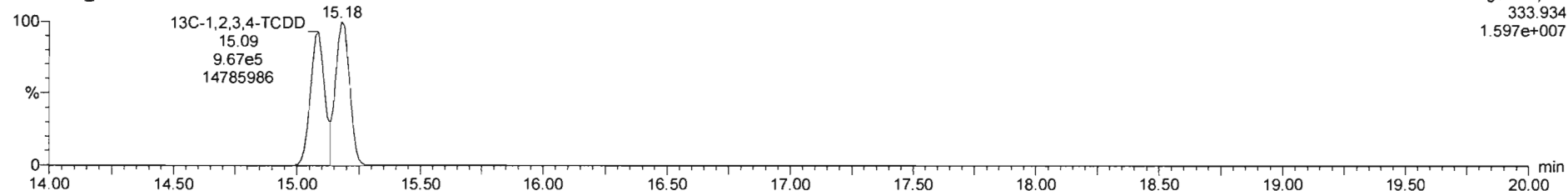
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13C-1,2,3,4-TCDD

200311R4_6

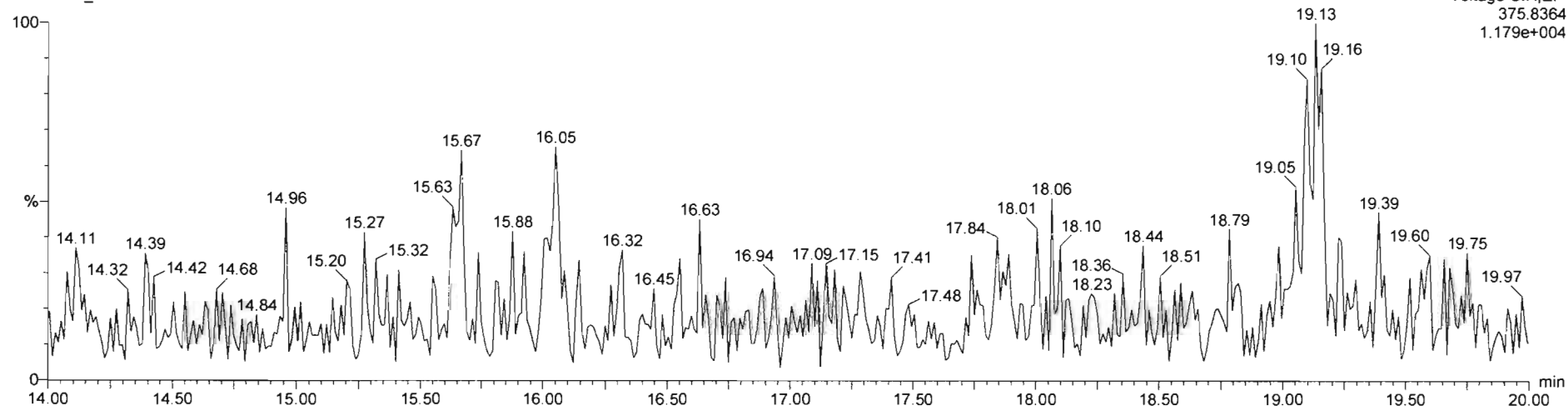


200311R4_6



DPE1

200311R4_6



Dataset: U:\VG12.PRO\Results\200311R4\200311R4-7.qld

Last Altered: Thursday, March 12, 2020 10:12:18 Pacific Daylight Time

Printed: Thursday, March 12, 2020 10:12:39 Pacific Daylight Time

GRB 03/12/2020

CT 03/16/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_7, Date: 12-Mar-2020, Time: 09:29:01, ID: 1903737-03RE2 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.01e4	0.75	NO	0.821	10.000	✓16.55	1.4060		0.105
2	2 13C-2,3,7,8-TCDF	1.75e6	0.78	NO	1.10	10.000	16.54	113.34	56.7	0.214
3	3 13C-1,2,3,4-TCDF	2.80e6	0.79	NO	1.00	10.000	14.45	200.01	100	0.235

Dataset: Untitled

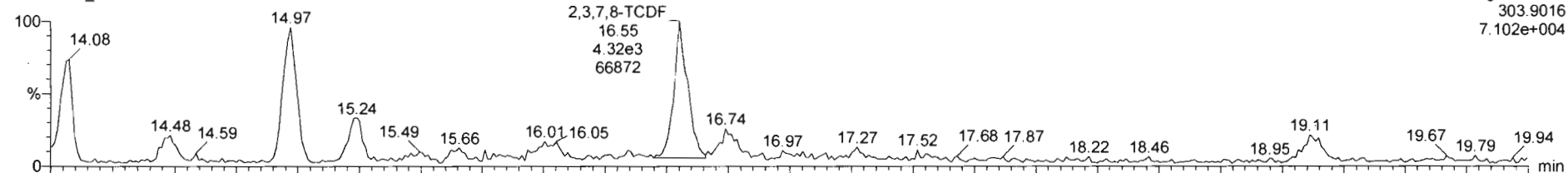
Last Altered: Thursday, March 12, 2020 10:08:37 Pacific Daylight Time

Printed: Thursday, March 12, 2020 10:09:18 Pacific Daylight Time

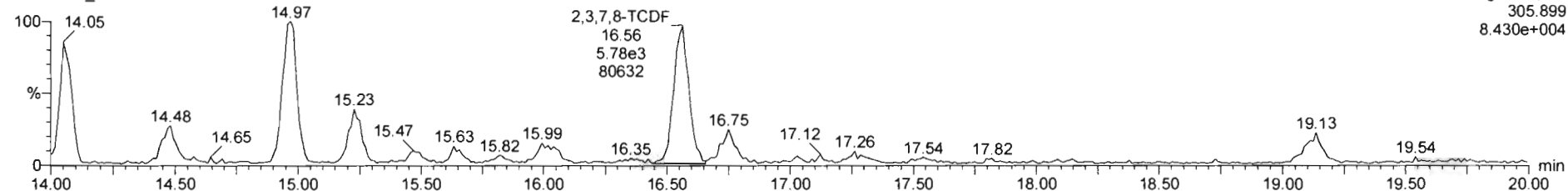
ID: 1903737-03RE2 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

2,3,7,8-TCDF

200311R4_7

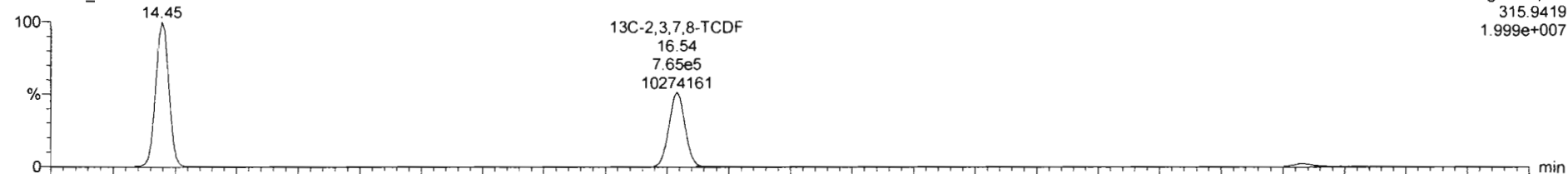


200311R4_7

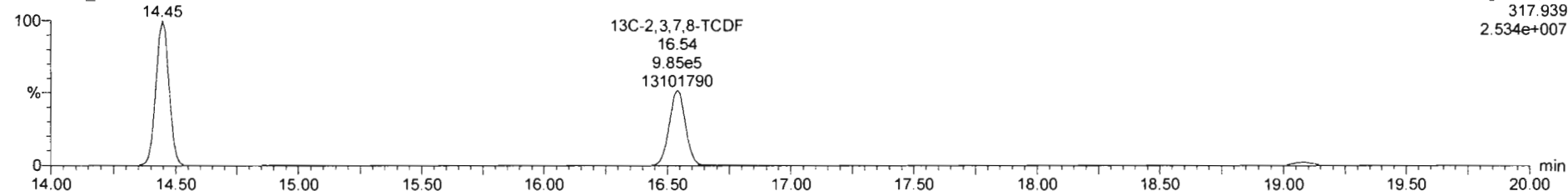


13C-2,3,7,8-TCDF

200311R4_7



200311R4_7

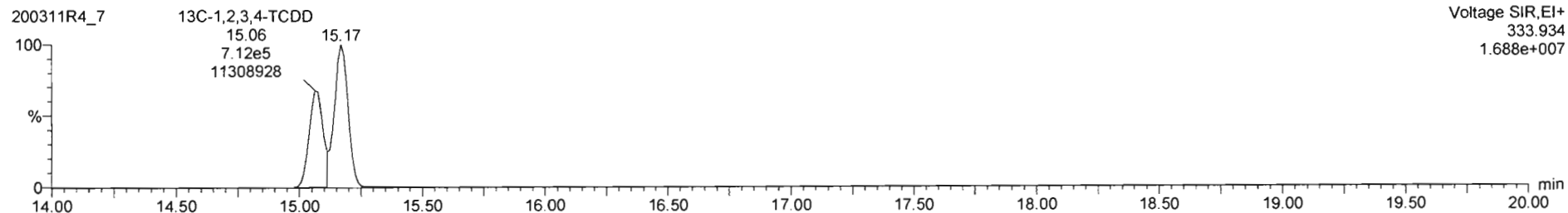
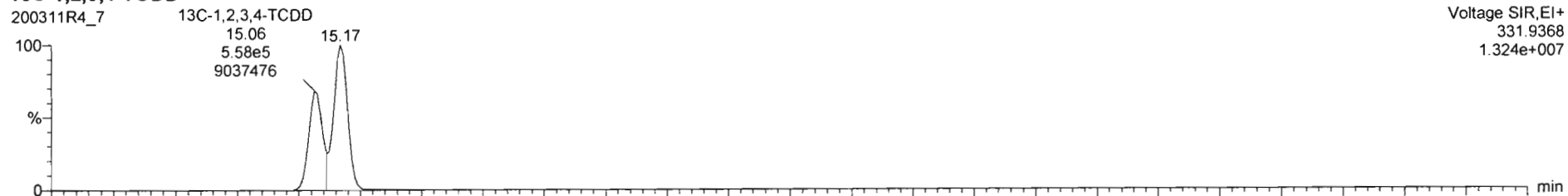


Dataset: Untitled

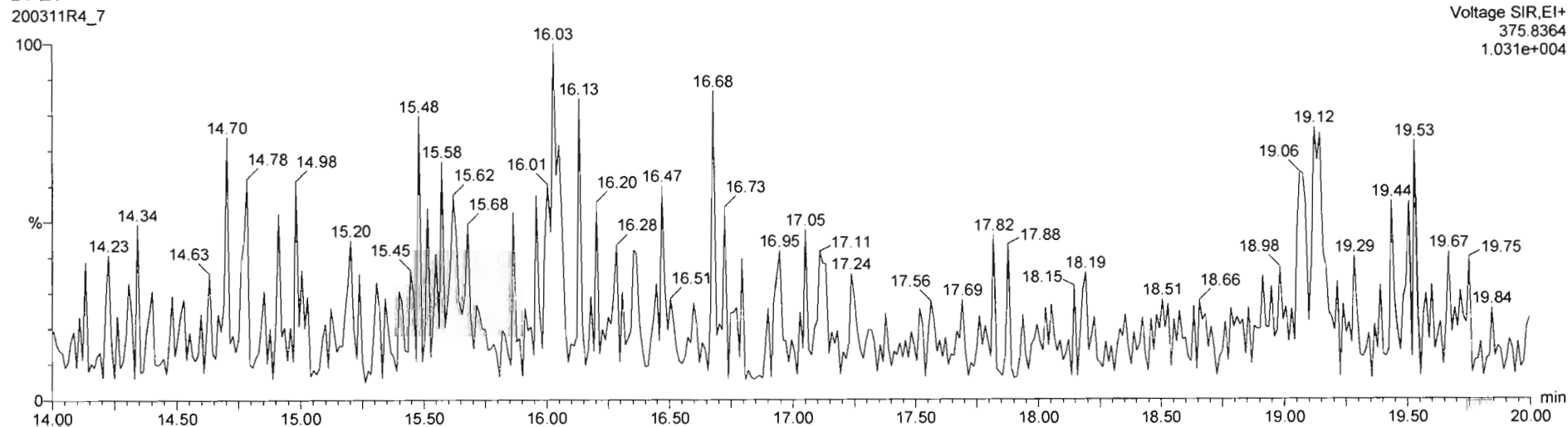
Last Altered: Thursday, March 12, 2020 10:08:37 Pacific Daylight Time
Printed: Thursday, March 12, 2020 10:09:18 Pacific Daylight Time

1, ID: 1903737-03RE2 PDI-049SC-B-04-06-191015 16.54, Description: PDI-049SC-B-04-06-191015

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



DPE1



Dataset: U:\VG12.PRO\Results\200311R4\200311R4-8.qld

Last Altered: Thursday, March 12, 2020 10:33:06 Pacific Daylight Time

Printed: Thursday, March 12, 2020 10:34:30 Pacific Daylight Time

GRE 03/12/2020

CT 03/16/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_8, Date: 12-Mar-2020, Time: 09:59:25, ID: 1903737-05RE2 PDI-052SC-B-00-02-191015 19.04, Description: PDI-052SC-B-00-02-191015

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.47e4	0.76	NO	0.821	10.037	16.56	4.5441		0.155
2	2 13C-2,3,7,8-TCDF	2.92e6	0.79	NO	1.10	10.037	16.54	197.24	99.0	0.338
3	3 13C-1,2,3,4-TCDF	2.68e6	0.80	NO	1.00	10.037	14.45	199.26	100	0.372

Dataset: Untitled

Last Altered: Thursday, March 12, 2020 10:33:06 Pacific Daylight Time

Printed: Thursday, March 12, 2020 10:33:16 Pacific Daylight Time

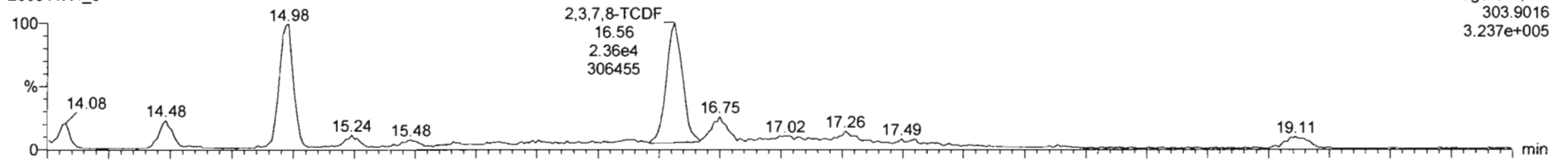
Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

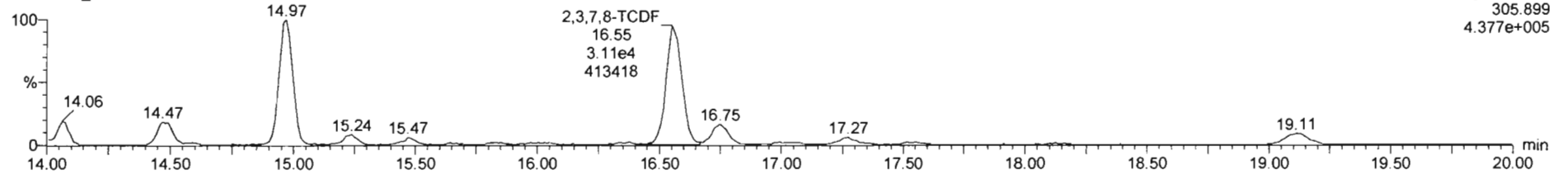
Name: 200311R4_8, Date: 12-Mar-2020, Time: 09:59:25, ID: 1903737-05RE2 PDI-052SC-B-00-02-191015 19.04, Description: PDI-052SC-B-00-02-191015

2,3,7,8-TCDF

200311R4_8

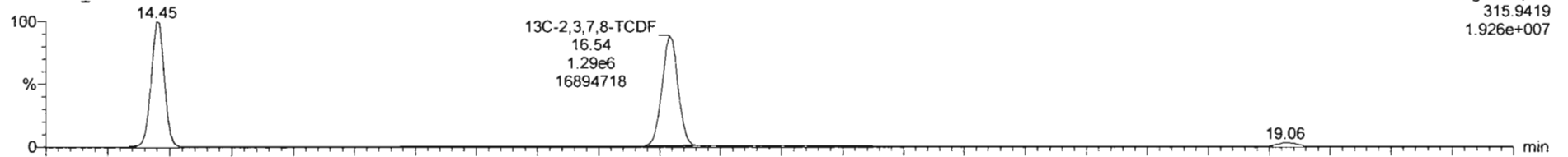


200311R4_8

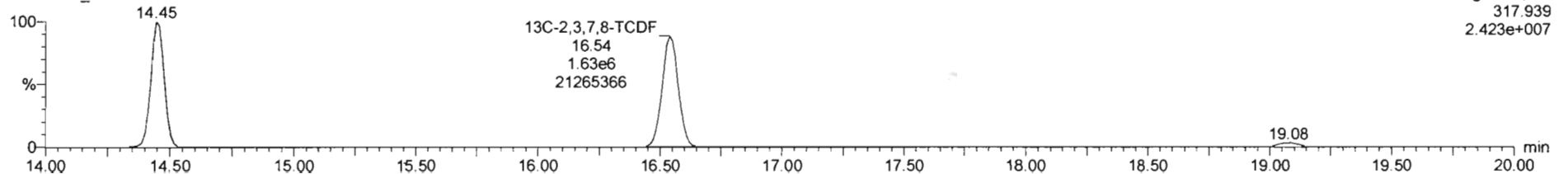


13C-2,3,7,8-TCDF

200311R4_8



200311R4_8



Dataset: Untitled

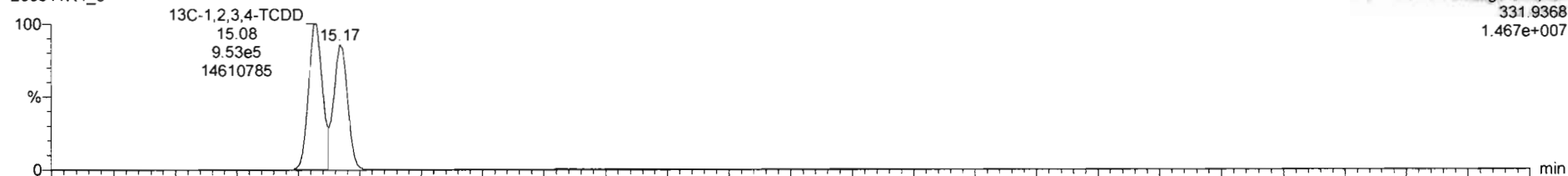
Last Altered: Thursday, March 12, 2020 10:33:06 Pacific Daylight Time

Printed: Thursday, March 12, 2020 10:33:16 Pacific Daylight Time

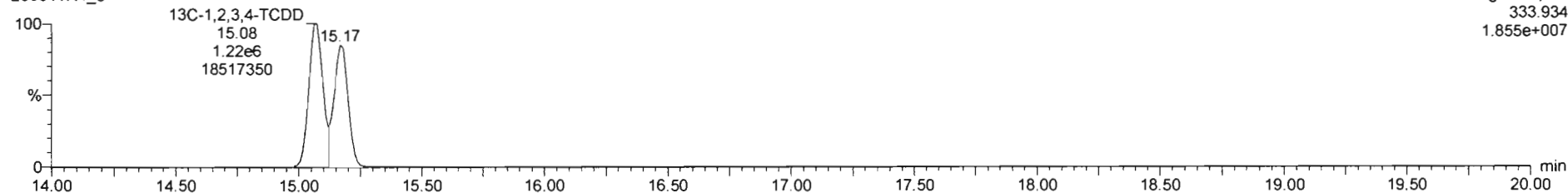
Name: 200311R4_8, Date: 12-Mar-2020, Time: 09:59:25, ID: 1903737-05RE2 PDI-052SC-B-00-02-191015 19.04, Description: PDI-052SC-B-00-02-191015

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

200311R4_8

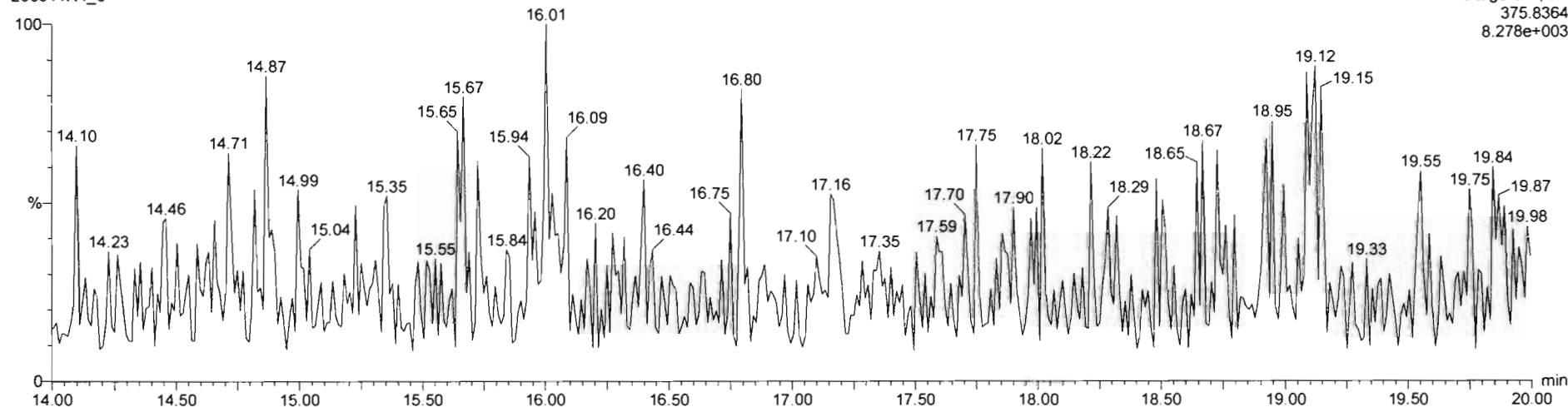


200311R4_8



DPE1

200311R4_8



Dataset: U:\VG12.PRO\Results\200311R4\200311R4-9.qld

Last Altered: Thursday, March 12, 2020 11:45:32 Pacific Daylight Time

Printed: Thursday, March 12, 2020 11:46:27 Pacific Daylight Time

GPB 03/12/2020

CT 03/16/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_9, Date: 12-Mar-2020, Time: 10:29:50, ID: 1903737-06RE2 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.10e6	0.76	NO	0.821	10.048 ✓	16.58	84.692		0.0994
2	2 13C-2,3,7,8-TCDF	3.15e6	0.78	NO	1.10	10.048	16.55	206.29	104	0.247
3	3 13C-1,2,3,4-TCDF	2.76e6	0.79	NO	1.00	10.048	14.46	199.04	100	0.272

Dataset: Untitled

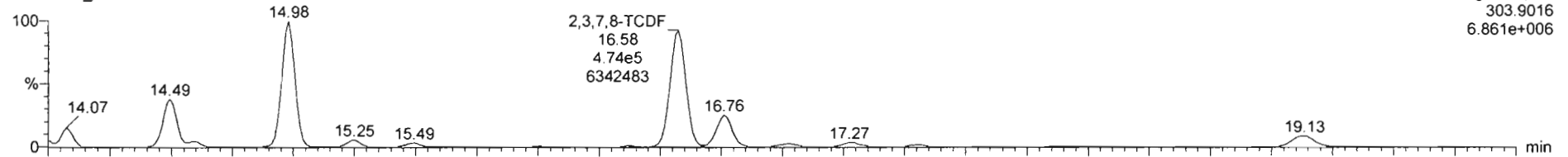
Last Altered: Thursday, March 12, 2020 11:40:58 Pacific Daylight Time
Printed: Thursday, March 12, 2020 11:44:28 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

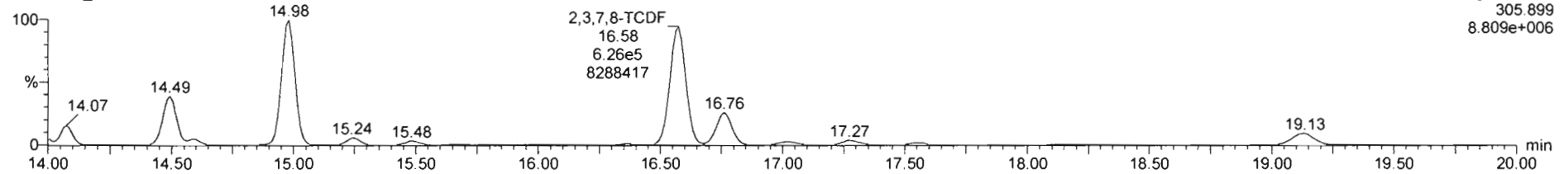
Name: 200311R4_9, Date: 12-Mar-2020, Time: 10:29:50, ID: 1903737-06RE2 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

2,3,7,8-TCDF

200311R4_9

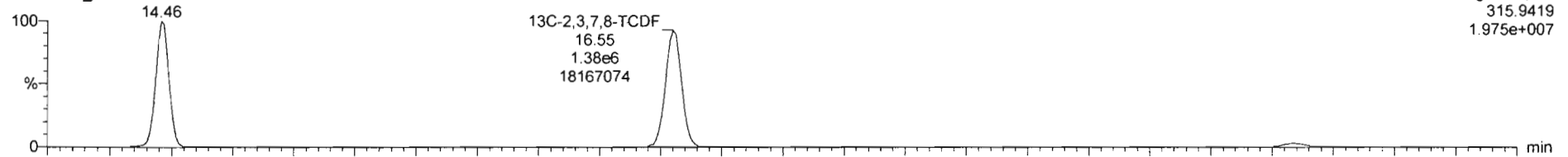


200311R4_9

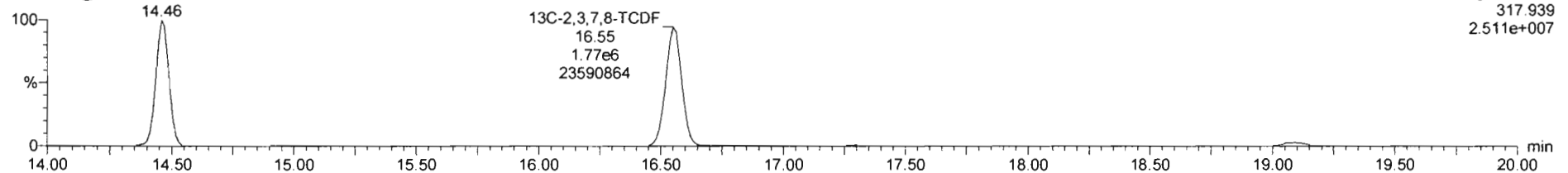


13C-2,3,7,8-TCDF

200311R4_9



200311R4_9



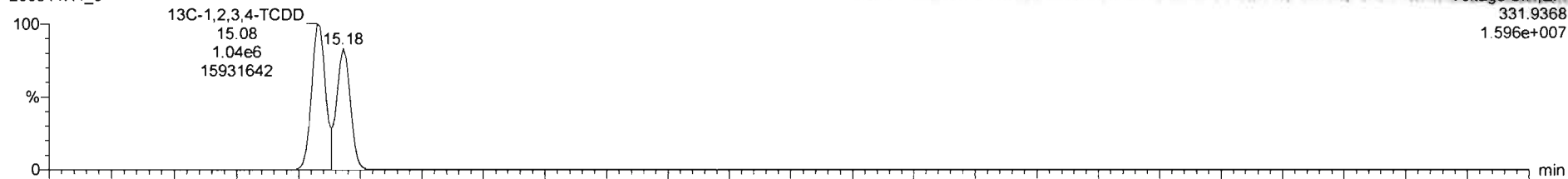
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 11:40:58 Pacific Daylight Time
Printed: Thursday, March 12, 2020 11:44:28 Pacific Daylight Time

Name: 200311R4_9, Date: 12-Mar-2020, Time: 10:29:50, ID: 1903737-06RE2 PDI-052SC-B-02-04-191015 17.69, Description: PDI-052SC-B-02-04-191015

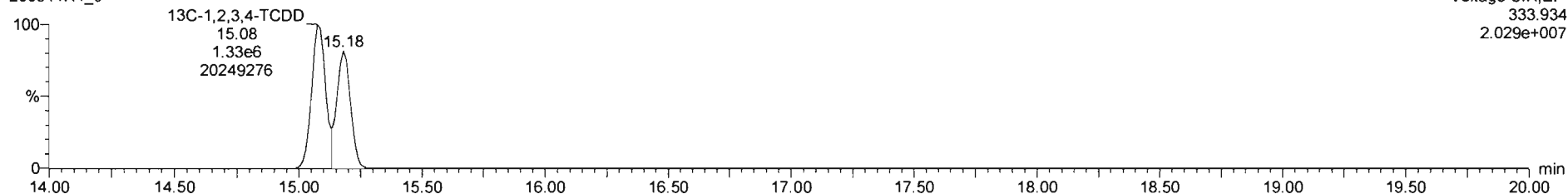
13C-1,2,3,4-TCDD

200311R4_9



Voltage SIR,EI+ 200311R4_9
331.9368
1.596e+007

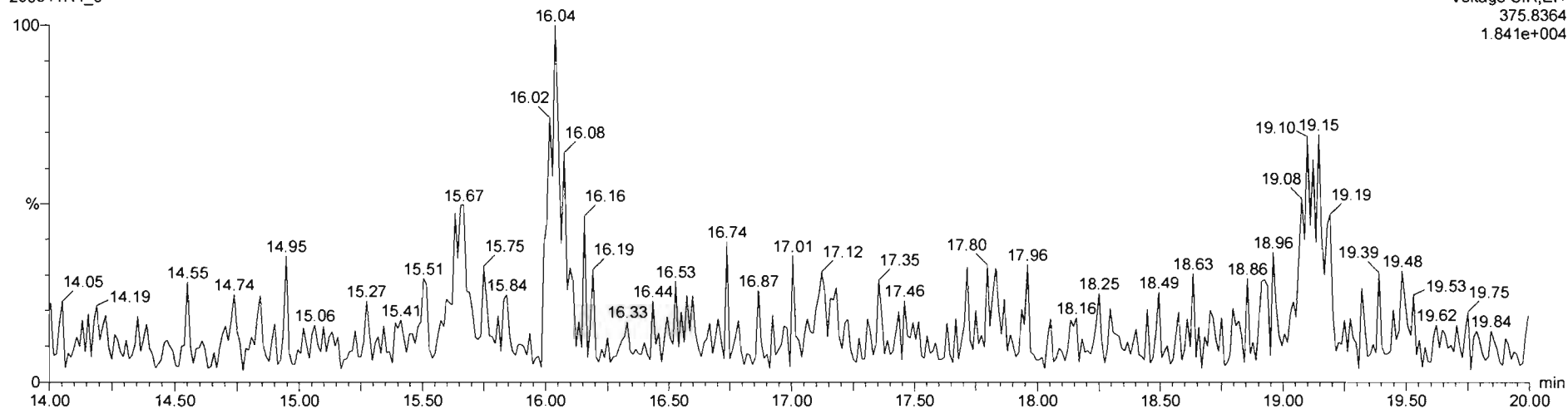
200311R4_9



Voltage SIR,EI+ 200311R4_9
333.934
2.029e+007

DPE1

200311R4_9



Voltage SIR,EI+ 200311R4_9
375.8364
1.841e+004

Dataset: U:\VG12.PRO\Results\200311R4\200311R4-10.qld

Last Altered: Thursday, March 12, 2020 11:46:35 Pacific Daylight Time

Printed: Thursday, March 12, 2020 11:46:50 Pacific Daylight Time

GRB 03/12/2020

C7 03/16/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_10, Date: 12-Mar-2020, Time: 11:00:15, ID: 1903737-07RE2 PDI-052SC-B-04-06-191015 16.92, Description: PDI-052SC-B-04-06-191015

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.12e5	0.74	NO	0.821	10.012	16.60	49.246		0.116
2	2 13C-2,3,7,8-TCDF	3.02e6	0.79	NO	1.10	10.012	16.58	197.65	98.9	0.347
3	3 13C-1,2,3,4-TCDF	2.78e6	0.78	NO	1.00	10.012	14.49	199.77	100	0.382

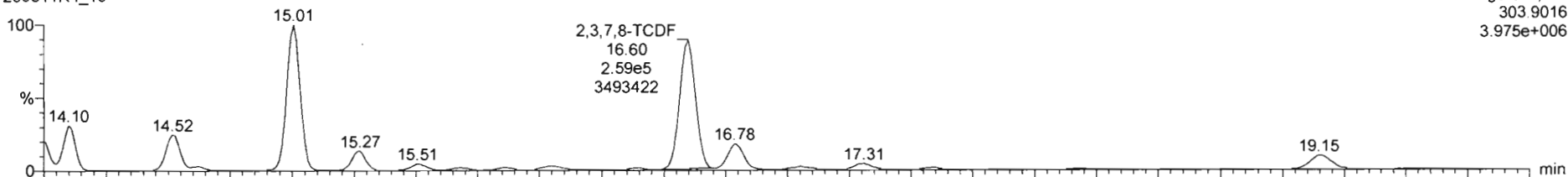
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 11:40:58 Pacific Daylight Time
Printed: Thursday, March 12, 2020 11:44:28 Pacific Daylight Time

15; ID: 1903737-07RE2 PDI-052SC-B-04-06-191015 16.92, Description: PDI-052SC-B-04-06-191015

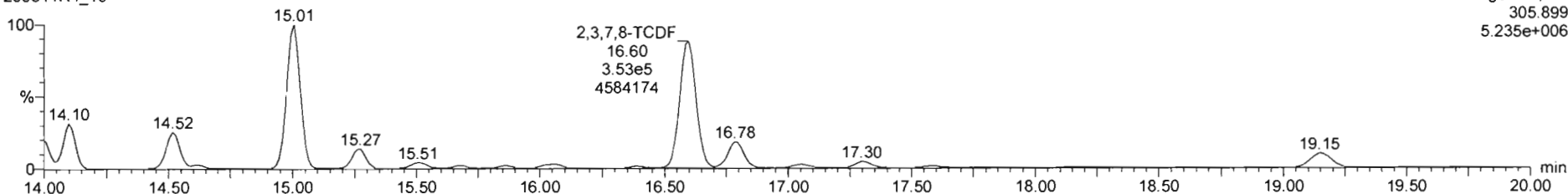
2,3,7,8-TCDF

200311R4_10



Voltage SIR,EI+
303.9016
3.975e+006

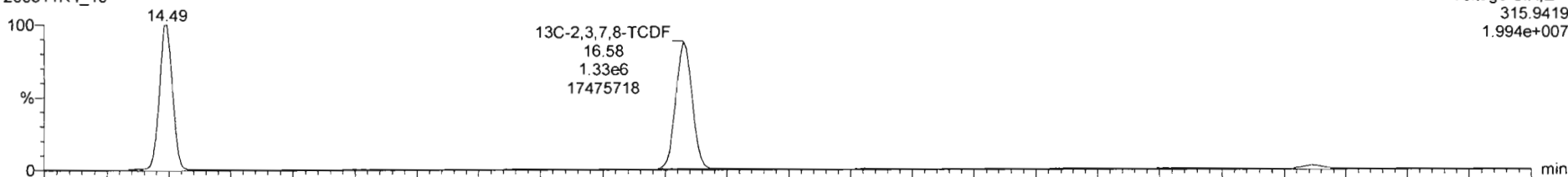
200311R4_10



Voltage SIR,EI+
305.899
5.235e+006

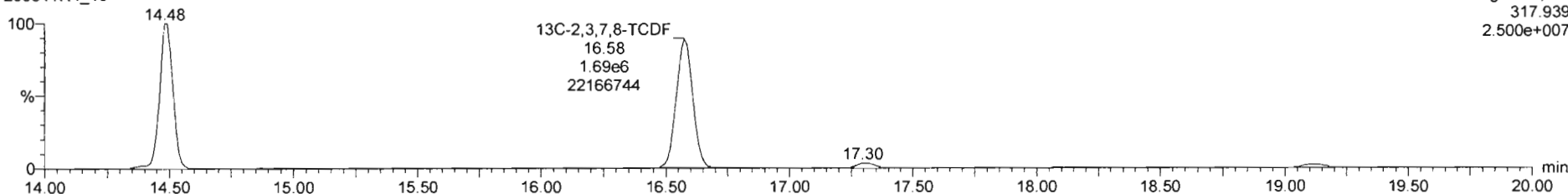
13C-2,3,7,8-TCDF

200311R4_10



Voltage SIR,EI+
315.9419
1.994e+007

200311R4_10



Voltage SIR,EI+
317.939
2.500e+007

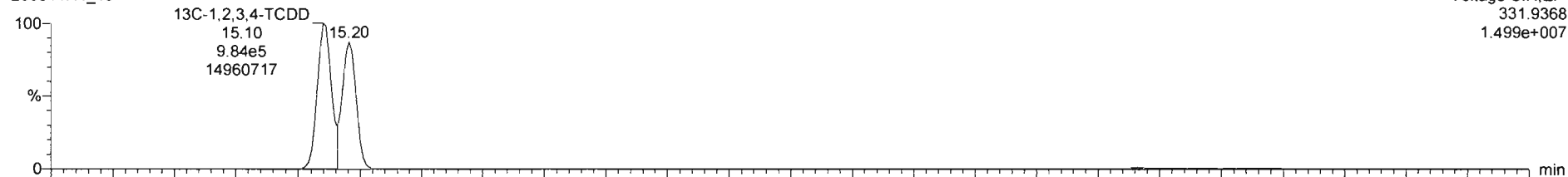
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 11:40:58 Pacific Daylight Time
Printed: Thursday, March 12, 2020 11:44:28 Pacific Daylight Time

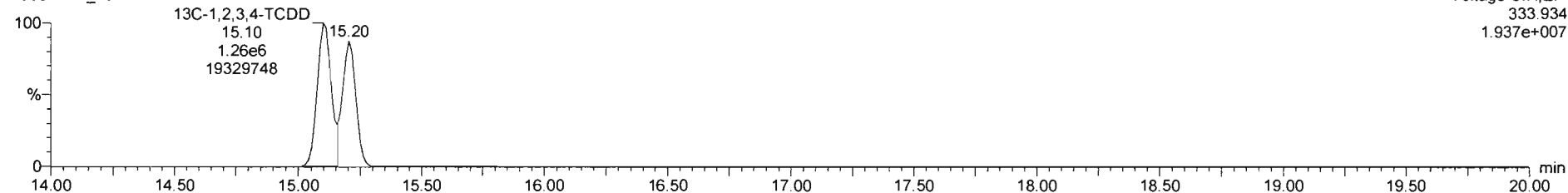
Name: 200311R4_10, Date: 12-Mar-2020, Time: 11:00:15, ID: 1903737-07RE2 PDI-052SC-B-04-06-191015 16.92, Description: PDI-052SC-B-04-06-191015

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

200311R4_10

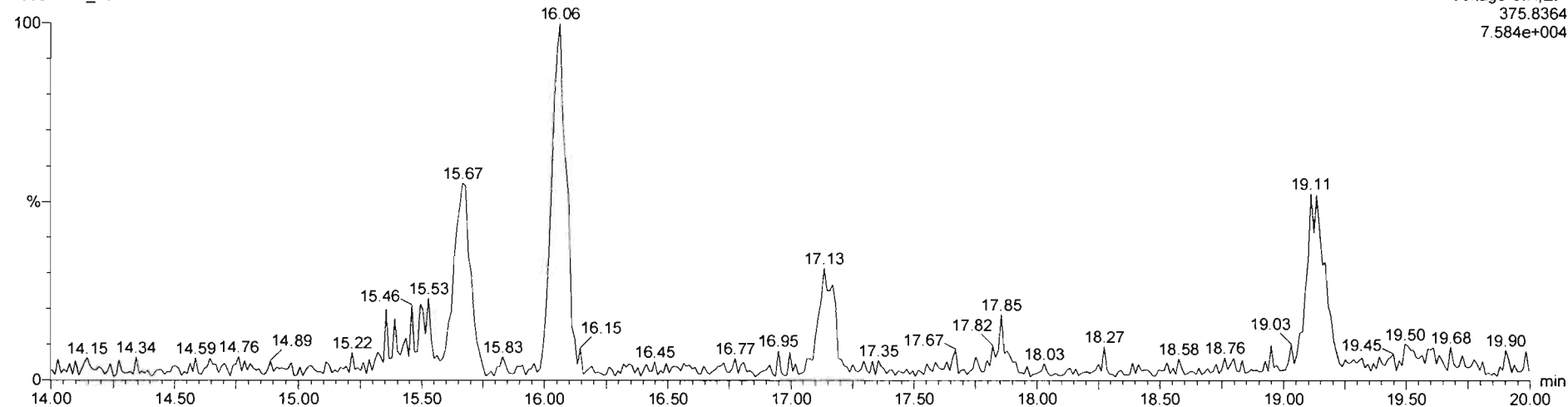


200311R4_10



DPE1

200311R4_10



Dataset: U:\VG12.PRO\Results\200311R4\200311R4-11.qld

Last Altered: Thursday, March 12, 2020 12:01:26 Pacific Daylight Time

Printed: Thursday, March 12, 2020 12:02:00 Pacific Daylight Time

GRB 03/12/2020

C703/16/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\ldb225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_11, Date: 12-Mar-2020, Time: 11:30:40, ID: 1903737-08RE2 PDI-052SC-B-06-08-191015 13.87, Description: PDI-052SC-B-06-08-191015

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.76e5	0.76	NO	0.821	10.011	16.58	13.291		0.0755
2	2 13C-2,3,7,8-TCDF	3.22e6	0.78	NO	1.10	10.011	16.56	198.48	99.4	0.185
3	3 13C-1,2,3,4-TCDF	2.95e6	0.79	NO	1.00	10.011	14.47	199.78	100	0.204

Dataset: Untitled

Last Altered: Thursday, March 12, 2020 12:01:26 Pacific Daylight Time

Printed: Thursday, March 12, 2020 12:01:32 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

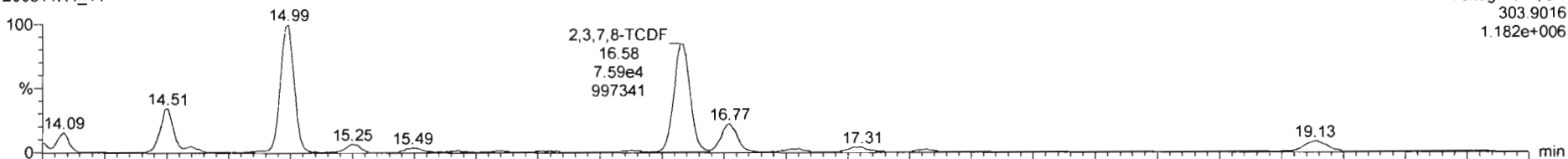
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_11, Date: 12-Mar-2020, Time: 11:30:40, ID: 1903737-08RE2 PDI-052SC-B-06-08-191015 13.87, Description: PDI-052SC-B-06-08-191015

2,3,7,8-TCDF

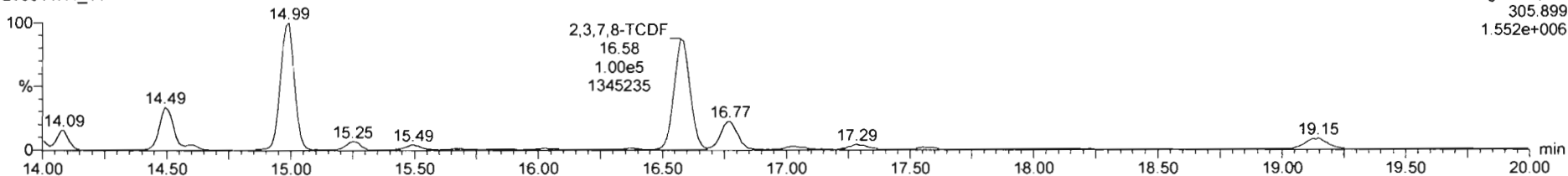
200311R4_11

Voltage SIR,EI+
303.9016
1.182e+006



200311R4_11

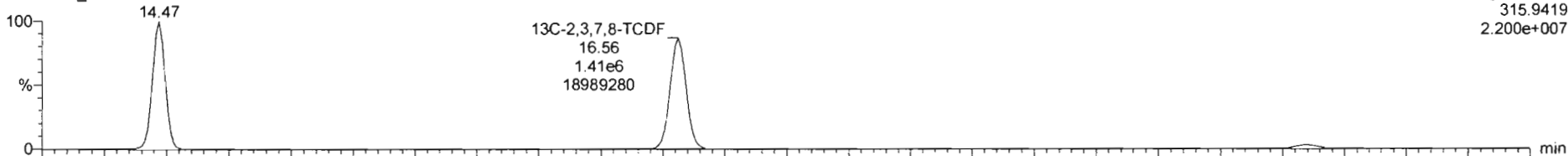
Voltage SIR,EI+
305.899
1.552e+006



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

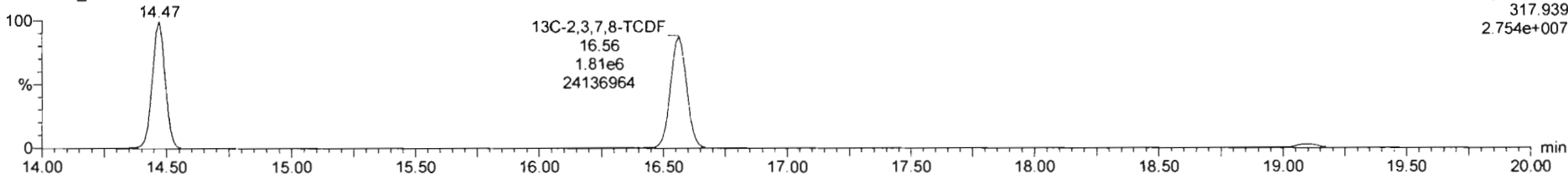
200311R4_11

Voltage SIR,EI+
315.9419
2.200e+007



200311R4_11

Voltage SIR,EI+
317.939
2.754e+007



Dataset: Untitled

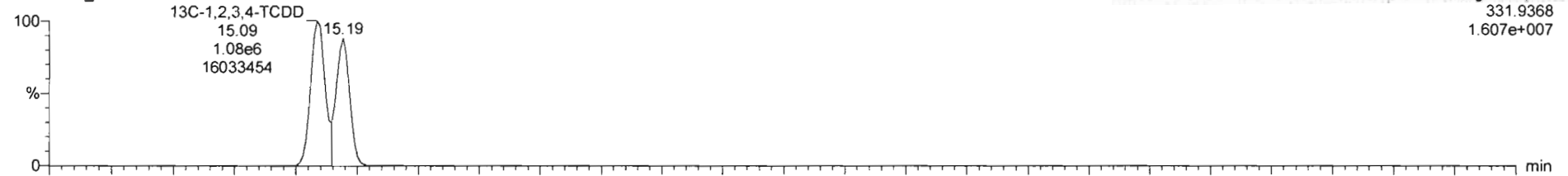
Last Altered: Thursday, March 12, 2020 12:01:26 Pacific Daylight Time

Printed: Thursday, March 12, 2020 12:01:32 Pacific Daylight Time

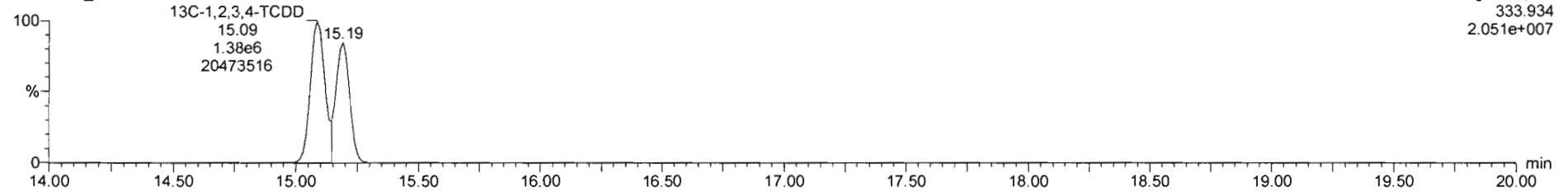
#0, ID: 19 Name: 200311R4_11, Date: 12-Mar-2020, Time: 11:30:40, ID: 1903737-08RE2 PDI-052SC-B-06-08-191015 13.87, Description: PDI-052SC-B-06-08-191015

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

200311R4_11

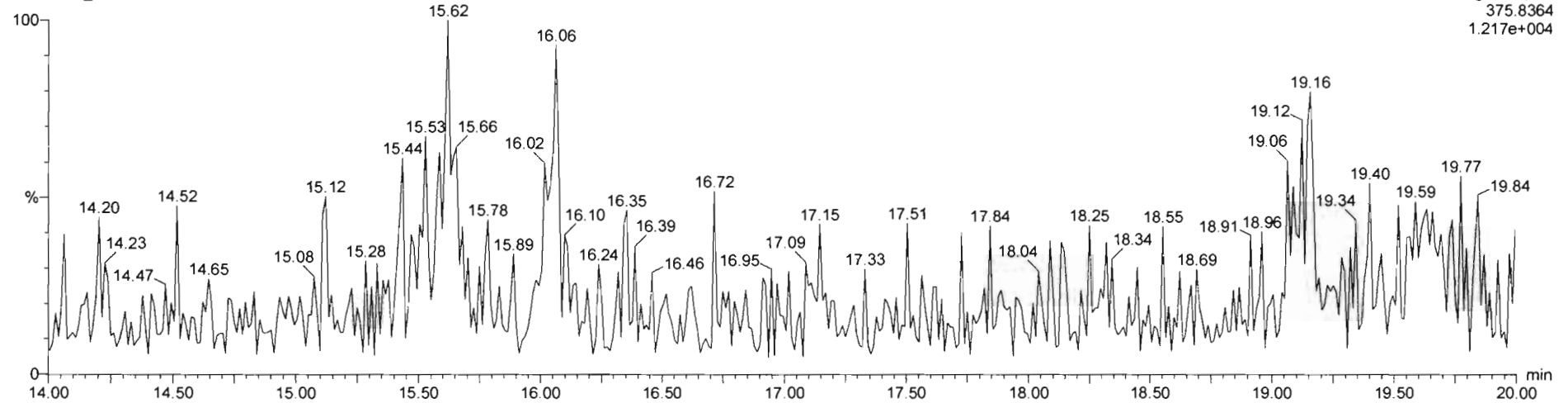


200311R4_11



DPE1

200311R4_11



Dataset: U:\VG12.PRO\Results\200311R4\200311R4-12.qld

Last Altered: Thursday, March 12, 2020 13:36:29 Pacific Daylight Time

Printed: Thursday, March 12, 2020 13:37:16 Pacific Daylight Time

GRB 03/12/2020

C7 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_12, Date: 12-Mar-2020, Time: 12:01:06, ID: 1903737-09RE2 PDI-055SC-B-00-02-191015 18.7, Description: PDI-055SC-B-00-02-191015

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.02e6	0.76	NO	0.821	10.021	16.582	16.58	1.000	1.001	87.750		0.121	87.7
2	2 13C-2,3,7,8-TCDF	2.83e6	0.78	NO	1.10	10.021	16.349	16.55	1.133	1.145	181.60	91.0	0.228	
3	3 13C-1,2,3,4-TCDF	2.82e6	0.79	NO	1.00	10.021	14.450	14.46	1.000	1.000	199.58	100	0.251	

Dataset: Untitled

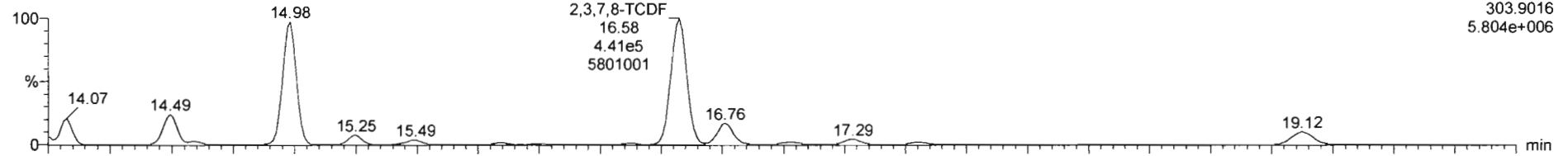
Last Altered: Thursday, March 12, 2020 13:35:55 Pacific Daylight Time
Printed: Thursday, March 12, 2020 13:36:09 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

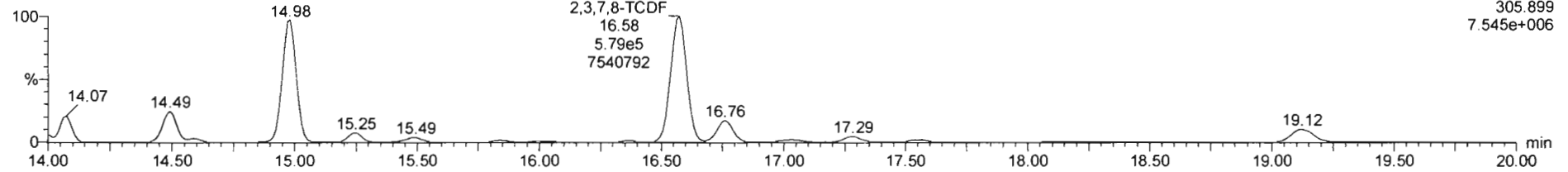
Name: 200311R4_12, Date: 12-Mar-2020, Time: 12:01:06, ID: 1903737-09RE2 PDI-055SC-B-00-02-191015 18.7, Description: PDI-055SC-B-00-02-191015

2,3,7,8-TCDF

200311R4_12

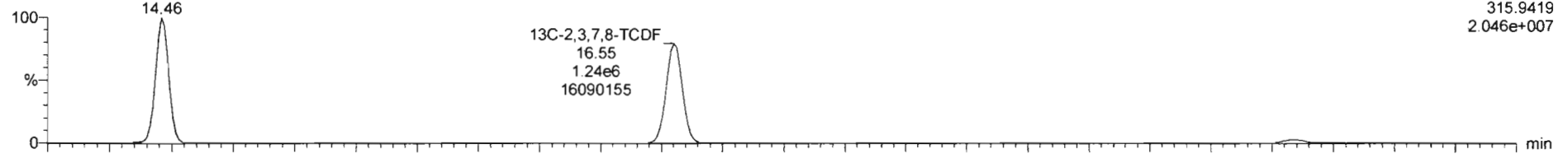


200311R4_12

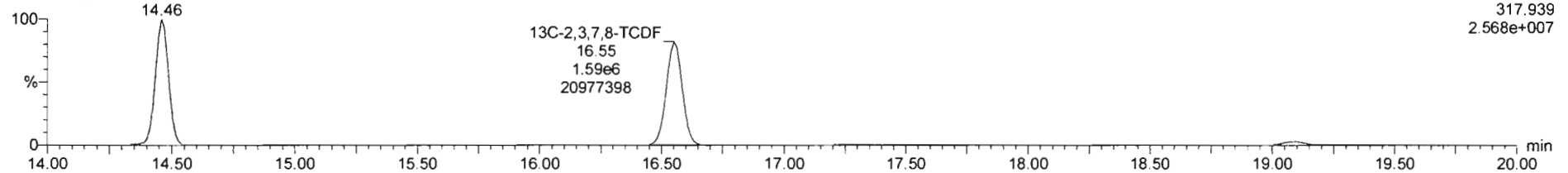


13C-2,3,7,8-TCDF

200311R4_12



200311R4_12



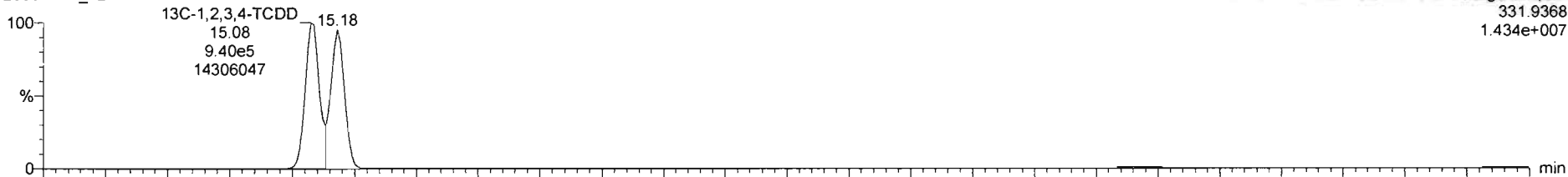
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 13:35:55 Pacific Daylight Time
Printed: Thursday, March 12, 2020 13:36:09 Pacific Daylight Time

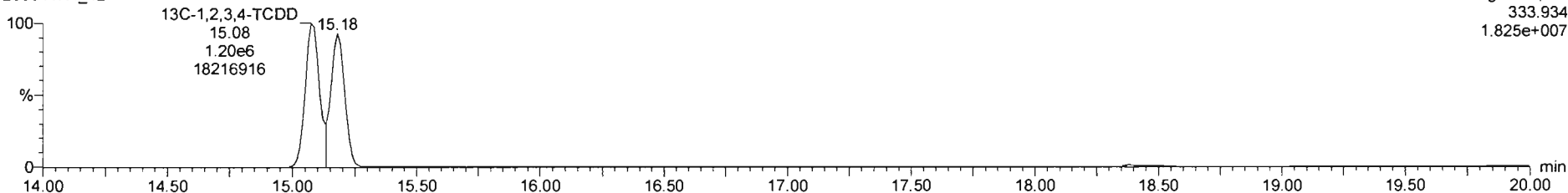
Name: 200311R4_12, Date: 12-Mar-2020, Time: 12:01:06, ID: 1903737-09RE2 PDI-055SC-B-00-02-191015 18.7, Description: PDI-055SC-B-00-02-191015

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

200311R4_12

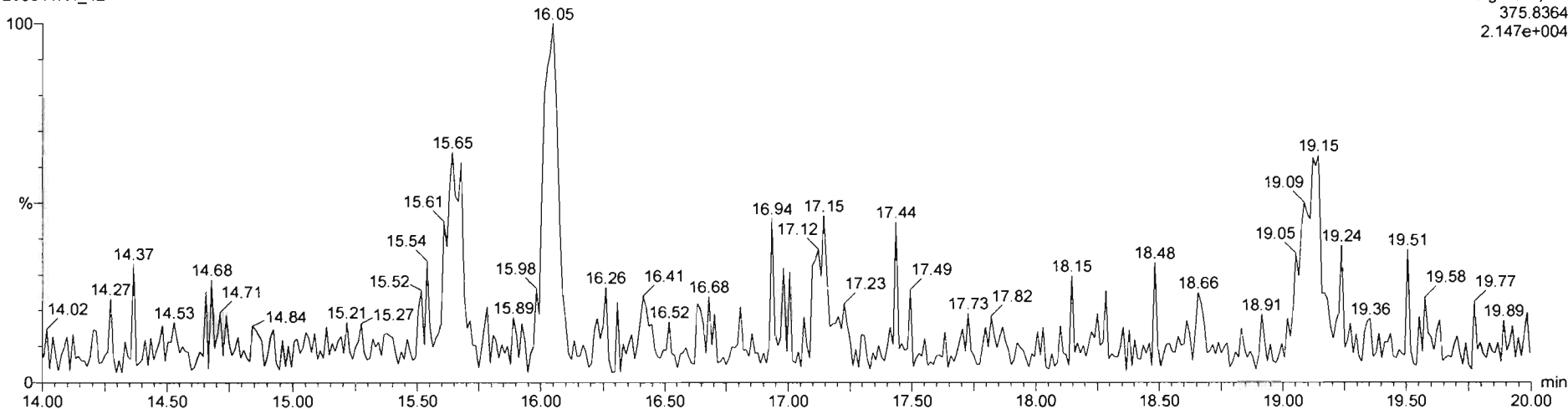


200311R4_12



DPE1

200311R4_12



Dataset: U:\VG12.PRO\Results\200311R4\200311R4-13.qld

Last Altered: Thursday, March 12, 2020 13:37:21 Pacific Daylight Time

Printed: Thursday, March 12, 2020 13:37:39 Pacific Daylight Time

GRB 03/12/2020

C7 03/16/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_13, Date: 12-Mar-2020, Time: 12:31:31, ID: 1903737-10RE2 PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	3.10e6	0.76	NO	0.821	10.019	16.606	16.59	1.000	1.001	289.70		0.178	290
2	2 13C-2,3,7,8-TCDF	2.60e6	0.78	NO	1.10	10.019	16.372	16.58	1.133	1.145	174.82	87.6	0.292	
3	3 13C-1,2,3,4-TCDF	2.70e6	0.80	NO	1.00	10.019	14.450	14.48	1.000	1.000	199.63	100	0.321	

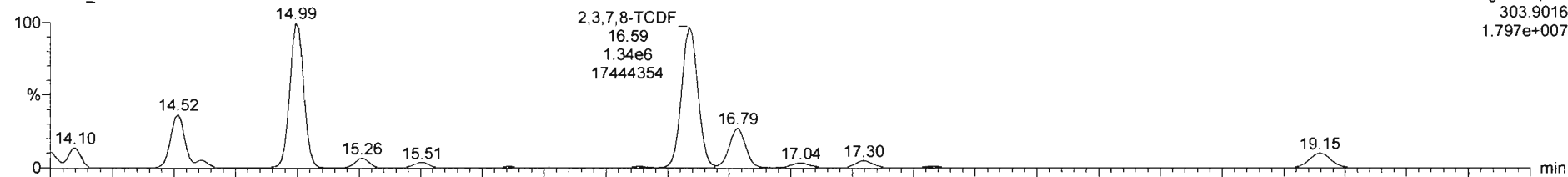
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 13:35:55 Pacific Daylight Time
Printed: Thursday, March 12, 2020 13:36:09 Pacific Daylight Time

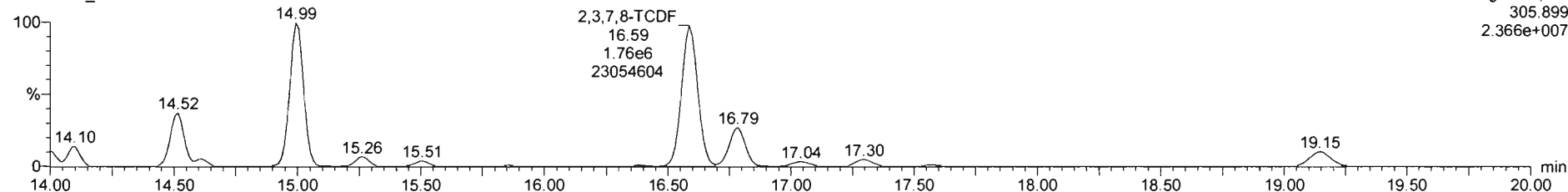
Name: 200311R4_13; Date: 12-Mar-2020; Time: 12:31:31; ID: 1903737-10RE2 PDI-055SC-B-02-04-191015 17.93; Description: PDI-055SC-B-02-04-191015

2,3,7,8-TCDF

200311R4_13

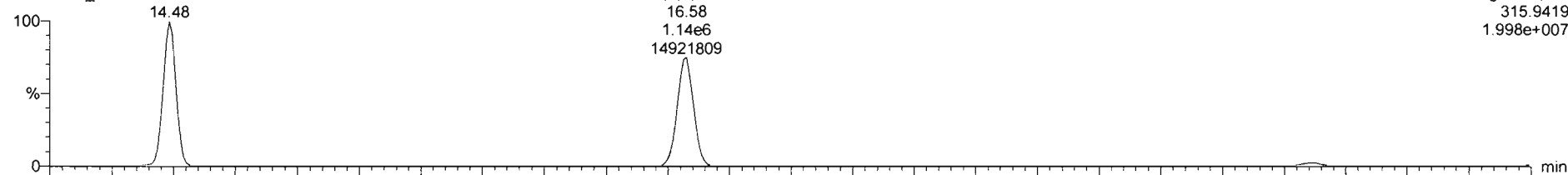


200311R4_13

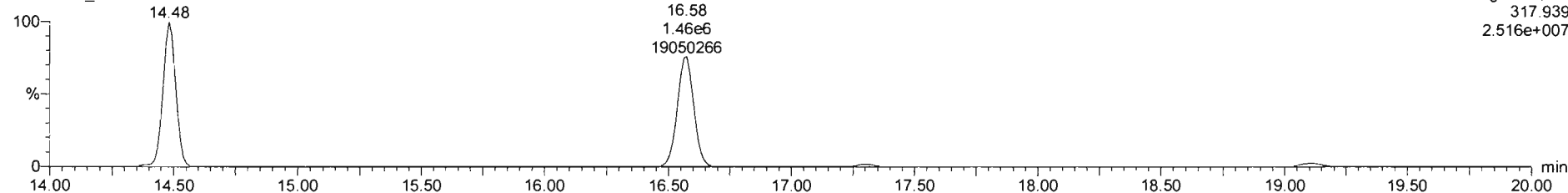


13C-2,3,7,8-TCDF

200311R4_13



200311R4_13



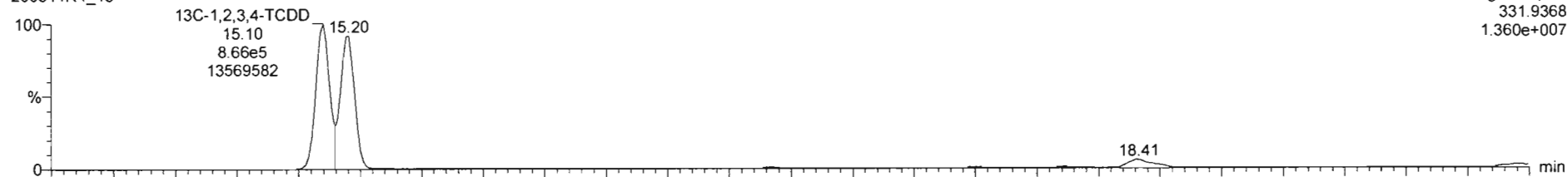
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Printed: Thursday, March 12, 2020 13:36:09 Pacific Daylight Time

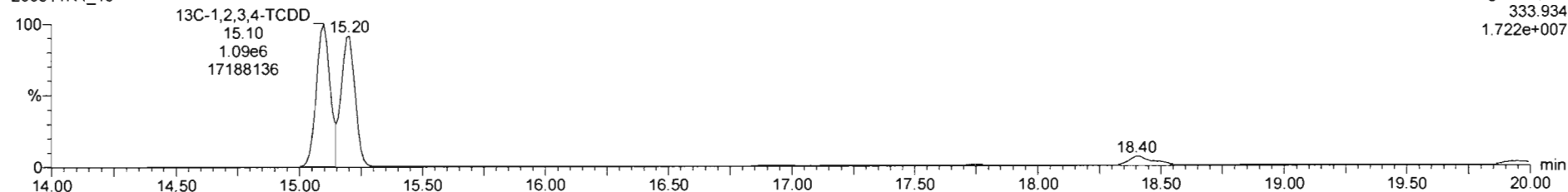
Name: 200311R4_13, Date: 12-Mar-2020, Time: 12:31:31, ID: 1903737-10RE2 PDI-055SC-B-02-04-191015 17.93, Description: PDI-055SC-B-02-04-191015

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

200311R4_13

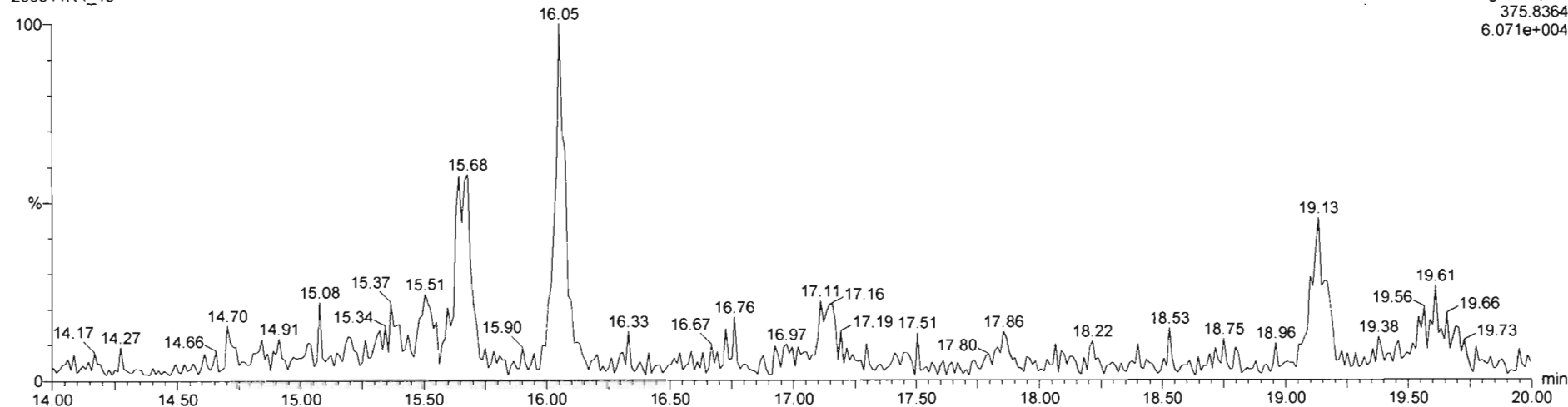


200311R4_13



DPE1

200311R4_13



Dataset: U:\VG12.PRO\Results\200311R4\200311R4-14.qld

Last Altered: Thursday, March 12, 2020 13:37:43 Pacific Daylight Time
Printed: Thursday, March 12, 2020 13:37:58 Pacific Daylight Time

GRB 03/12/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Sample ID: 19 Name: 200311R4_14, Date: 12-Mar-2020, Time: 13:01:56, ID: 1903737-11RE2 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.53e5	0.75	NO	0.821	10.001	16.594	16.58	1.000	1.001	12.737		0.167	12.7
2	2 13C-2,3,7,8-TCDF	2.92e6	0.78	NO	1.10	10.001	16.361	16.56	1.133	1.145	193.54	96.8	0.267	
3	3 13C-1,2,3,4-TCDF	2.74e6	0.80	NO	1.00	10.001	14.450	14.47	1.000	1.000	199.97	100	0.294	

Dataset: Untitled

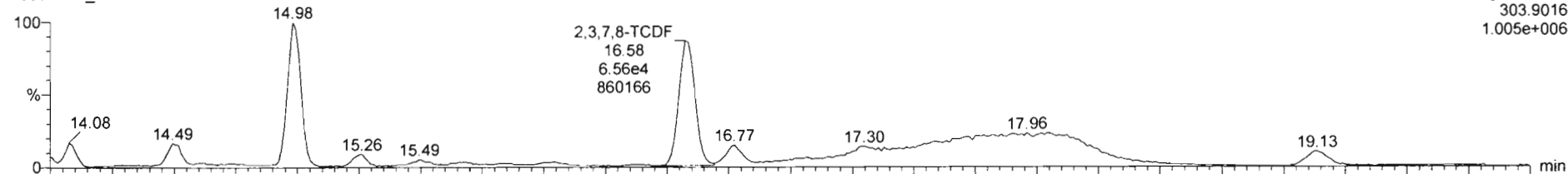
Last Altered: Thursday, March 12, 2020 13:35:55 Pacific Daylight Time

Printed: Thursday, March 12, 2020 13:36:09 Pacific Daylight Time

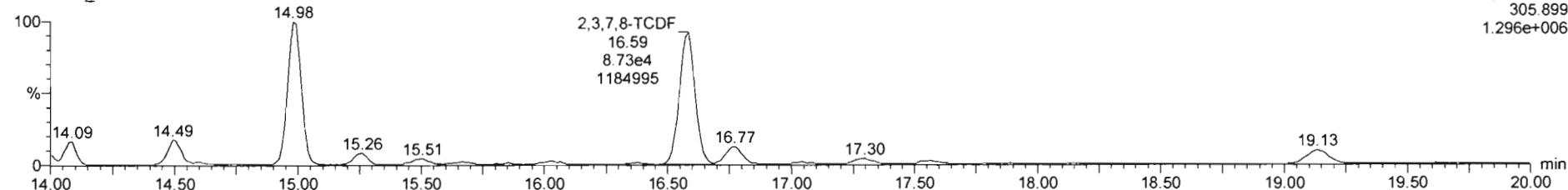
Name: 200311R4_14, Date: 12-Mar-2020, Time: 13:01:56, ID: 1903737-11RE2 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

2,3,7,8-TCDF

200311R4_14

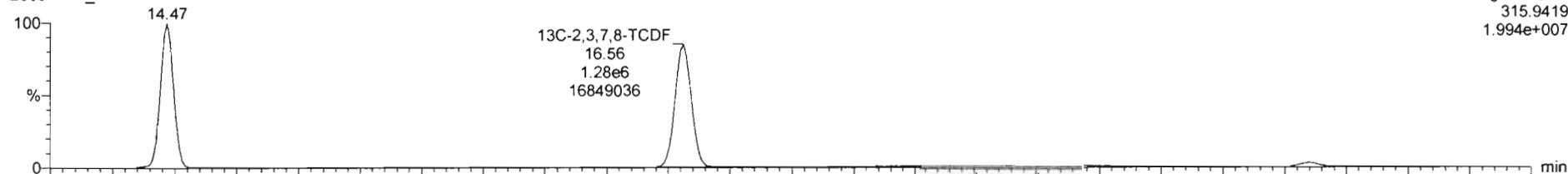


200311R4_14

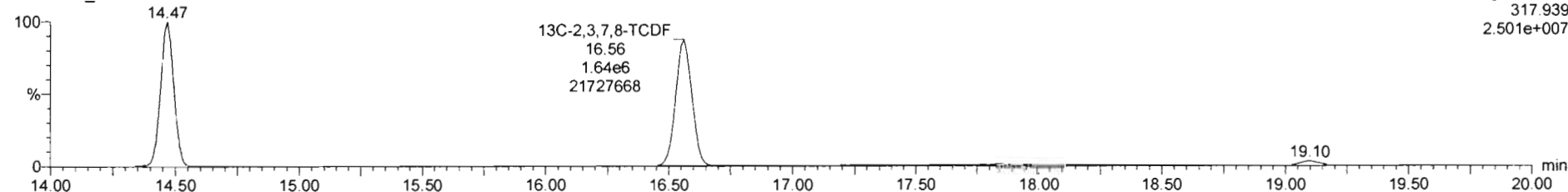


13C-2,3,7,8-TCDF

200311R4_14



200311R4_14



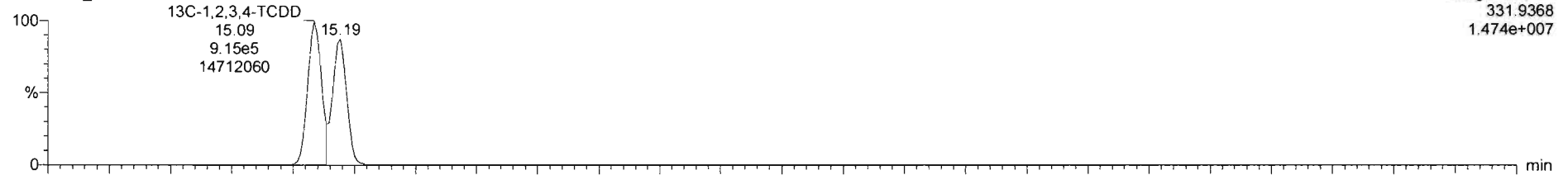
Dataset: Untitled

Last Altered: Thursday, March 12, 2020 13:35:55 Pacific Daylight Time
Printed: Thursday, March 12, 2020 13:36:09 Pacific Daylight Time

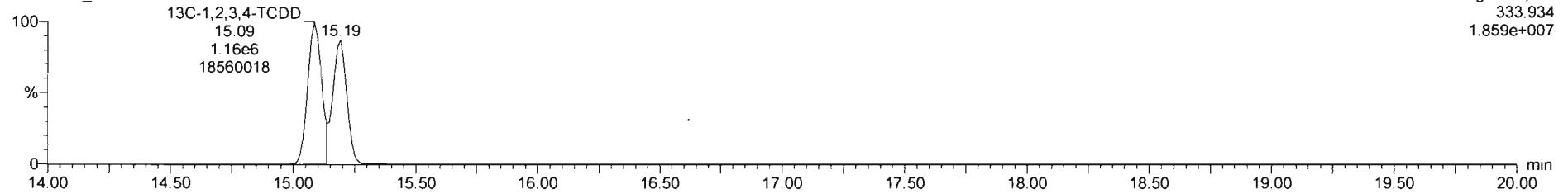
Sample ID: 1903737-11RE2 PDI-055SC-B-04-06-191015 13.72, Description: PDI-055SC-B-04-06-191015

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

200311R4_14

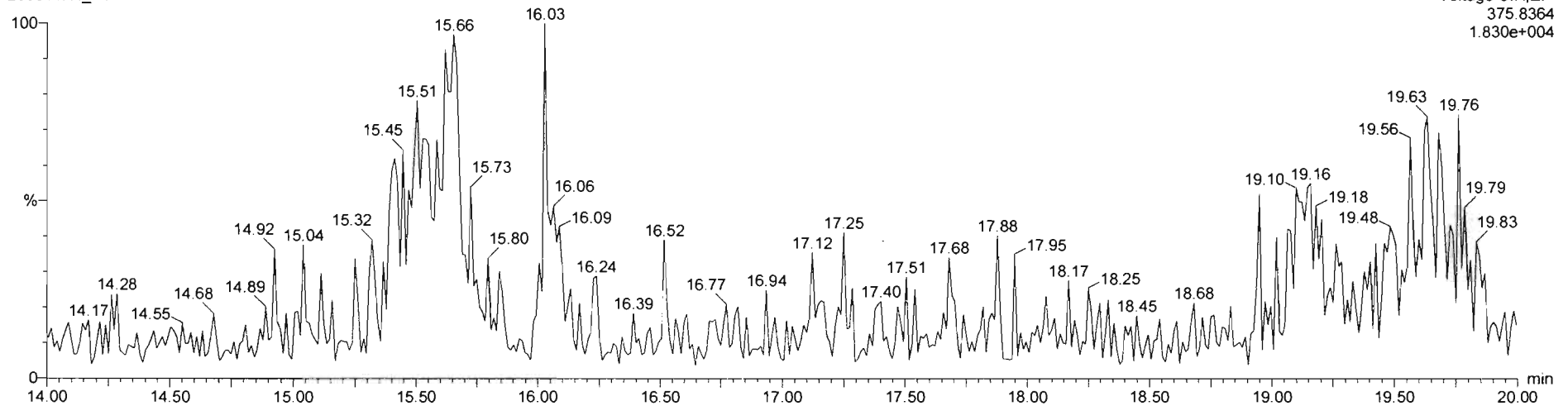


200311R4_14



DPE1

200311R4_14



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200229R1-1

Reviewed By: CT 03/02/2020
Initials & Date

End Calibration ID: NA

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

Mass resolution \geq

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

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

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

Comments:

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-1.qld

Last Altered: Monday, March 02, 2020 11:19:29 Pacific Standard Time
Printed: Monday, March 02, 2020 11:20:40 Pacific Standard Time

GRB 03/02/2020

CT 03/02/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.46e5	1.56e6	0.79	NO	0.988	25.77	25.75	NO	1.001	1.001	9.4687	94.7	NO
2	2 1,2,3,7,8-PeCDD	5.09e5	1.17e6	0.60	NO	0.972	30.86	30.85	NO	1.001	1.000	44.729	89.5	NO
3	3 1,2,3,4,7,8-HxCDD	3.92e5	7.69e5	1.23	NO	1.07	34.23	34.23	NO	1.000	1.000	47.680	95.4	NO
4	4 1,2,3,6,7,8-HxCDD	5.12e5	1.01e6	1.22	NO	0.921	34.32	34.34	NO	1.000	1.001	55.208	110	NO
5	5 1,2,3,7,8,9-HxCDD	4.01e5	8.58e5	1.12	NO	0.918	34.63	34.61	NO	1.001	1.000	50.881	102	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.84e5	6.44e5	0.95	NO	0.923	38.11	38.12	NO	1.000	1.001	47.829	95.7	NO
7	7 OCDD	5.72e5	1.21e6	0.90	NO	0.975	41.19	41.20	NO	1.000	1.000	97.313	97.3	NO
8	8 2,3,7,8-TCDF	1.71e5	2.09e6	0.75	NO	0.802	24.82	24.81	NO	1.001	1.001	10.220	102	NO
9	9 1,2,3,7,8-PeCDF	7.28e5	1.69e6	1.57	NO	0.907	29.54	29.54	NO	1.001	1.001	47.577	95.2	NO
10	10 2,3,4,7,8-PeCDF	7.44e5	1.58e6	1.55	NO	0.952	30.54	30.53	NO	1.001	1.001	49.532	99.1	NO
11	11 1,2,3,4,7,8-HxCDF	4.67e5	9.76e5	1.18	NO	0.862	33.36	33.37	NO	1.000	1.000	55.485	111	NO
12	12 1,2,3,6,7,8-HxCDF	5.96e5	1.25e6	1.17	NO	0.841	33.49	33.50	NO	1.000	1.001	56.634	113	NO
13	13 2,3,4,6,7,8-HxCDF	5.39e5	1.07e6	1.22	NO	0.898	34.09	34.06	NO	1.001	1.000	55.927	112	NO
14	14 1,2,3,7,8,9-HxCDF	3.87e5	8.39e5	1.18	NO	0.858	34.94	34.95	NO	1.000	1.000	53.729	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.72e5	8.00e5	1.00	NO	0.851	36.72	36.68	NO	1.001	1.000	54.671	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.88e5	5.31e5	1.03	NO	0.980	38.75	38.75	NO	1.000	1.000	55.288	111	NO
17	17 OCDF	5.98e5	1.51e6	0.90	NO	0.806	41.37	41.38	NO	1.000	1.000	98.633	98.6	NO
18	18 13C-2,3,7,8-TCDD	1.56e6	1.42e6	0.77	NO	1.20	25.71	25.74	NO	1.026	1.027	91.788	91.8	NO
19	19 13C-1,2,3,7,8-PeCDD	1.17e6	1.42e6	0.62	NO	0.967	30.84	30.83	NO	1.230	1.230	85.130	85.1	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.69e5	1.01e6	1.27	NO	0.874	34.21	34.22	NO	1.014	1.014	87.477	87.5	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.01e6	1.01e6	1.25	NO	1.05	34.32	34.32	NO	1.017	1.017	95.756	95.8	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.58e5	1.01e6	1.25	NO	0.974	34.62	34.60	NO	1.026	1.025	87.585	87.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.44e5	1.01e6	1.03	NO	0.747	38.20	38.10	NO	1.132	1.129	85.724	85.7	NO
24	24 13C-OCDD	1.21e6	1.01e6	0.88	NO	0.707	41.10	41.19	NO	1.218	1.221	169.77	84.9	NO
25	25 13C-2,3,7,8-TCDF	2.09e6	2.02e6	0.80	NO	1.07	24.89	24.79	NO	0.993	0.989	96.857	96.9	NO
26	26 13C-1,2,3,7,8-PeCDF	1.69e6	2.02e6	1.58	NO	1.00	29.47	29.52	NO	1.176	1.178	83.265	83.3	NO
27	27 13C-2,3,4,7,8-PeCDF	1.58e6	2.02e6	1.56	NO	0.962	30.44	30.51	NO	1.215	1.218	81.189	81.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	9.76e5	1.01e6	0.52	NO	1.05	33.34	33.36	NO	0.988	0.989	92.487	92.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.25e6	1.01e6	0.52	NO	1.19	33.44	33.48	NO	0.991	0.992	104.60	105	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.07e6	1.01e6	0.52	NO	1.07	34.05	34.05	NO	1.009	1.009	100.16	100	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.39e5	1.01e6	0.51	NO	0.922	34.96	34.94	NO	1.036	1.035	90.460	90.5	NO

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-1.qld

Last Altered: Monday, March 02, 2020 11:19:29 Pacific Standard Time

Printed: Monday, March 02, 2020 11:20:40 Pacific Standard Time

Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.00e5	1.01e6	0.45	NO	0.767	36.71	36.68	NO	1.088	1.087	103.69	104	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.31e5	1.01e6	0.45	NO	0.552	38.74	38.75	NO	1.148	1.148	95.580	95.6	NO
34	34 13C-OCDF	1.51e6	1.01e6	0.88	NO	0.789	41.33	41.37	NO	1.225	1.226	189.68	94.8	NO
35	35 37Cl-2,3,7,8-TCDD	1.43e5	1.42e6			1.18	25.74	25.75	NO	1.027	1.027	8.5762	85.8	NO
36	36 13C-1,2,3,4-TCDD	1.42e6	1.42e6	0.78	NO	1.00	25.11	25.06	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.02e6	2.02e6	0.80	NO	1.00	23.37	23.28	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.01e6	1.01e6	0.50	NO	1.00	33.71	33.74	NO	1.000	1.000	100.00	100	YES <i>OK</i>
39	39 Total Tetra-Dioxins		1.56e6			0.988	24.62		NO	0.000		83.666		NO
40	40 Total Penta-Dioxins		1.17e6			0.972	29.96		NO	0.000		197.00		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		256.01		NO
42	42 Total Hepta-Dioxins		6.44e5			0.923	37.64		NO	0.000		134.52		NO
43	43 Total Tetra-Furans		2.09e6			0.802	23.61		NO	0.000		51.409		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000		104.11		NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		169.45		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		324.26		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		110.11		NO

Dataset: U:\VG12.PRO\Results\200229R1\200229R1-CPSM.qld

Last Altered: Saturday, February 29, 2020 12:03:51 Pacific Standard Time
Printed: Saturday, February 29, 2020 12:12:51 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 27 Feb 2020 10:59:03
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.60
2	2 1,2,8,9-TCDD (Last)	26.75
3	3 1,2,4,7,9-PeCDD (First)	28.61
4	4 1,2,3,8,9-PeCDD (Last)	31.25
5	5 1,2,4,6,7,9-HxCDD (First)	32.76
6	6 1,2,3,7,8,9-HxCDD (Last)	34.61
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.08
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.12
9	9 1,3,6,8-TCDF (First)	19.55
10	10 1,2,8,9-TCDF (Last)	26.90
11	11 1,3,4,6,8-PeCDF (First)	26.87
12	12 1,2,3,8,9-PeCDF (Last)	31.48
13	13 1,2,3,4,6,8-HxCDF (First)	32.20
14	14 1,2,3,7,8,9-HxCDF (Last)	34.95
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.68
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.75

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:46:11 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

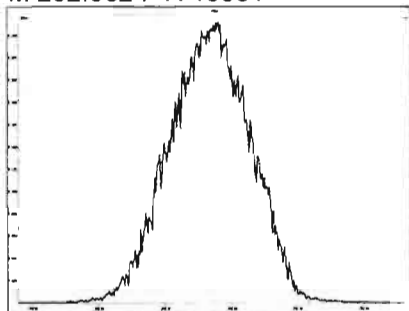
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200229R1_1	ST200229R1_1 1613 CS3 19L2305	29-Feb-20	11:10:57
2	200229R1_2	B0A0229-BS1 OPR 10	29-Feb-20	12:03:12
3	200229R1_3	SOLVENT BLANK	29-Feb-20	12:49:25
4	200229R1_4	B0A0229-BLK1 Method Blank 10	29-Feb-20	13:36:48
5	200229R1_5	1903737-01RE1 PDI-049SC-B-00-02-191015 ...	29-Feb-20	14:24:13
6	200229R1_6	1903737-02RE1 PDI-049SC-B-02-04-191015 ...	29-Feb-20	15:11:38
7	200229R1_7	1903737-03RE1 PDI-049SC-B-04-06-191015 ...	29-Feb-20	15:59:02
8	200229R1_8	1903737-04RE1 PDI-049SC-B-06-08-191015 ...	29-Feb-20	16:46:27
9	200229R1_9	1903737-05RE1 PDI-052SC-B-00-02-191015 ...	29-Feb-20	17:33:52
10	200229R1_10	1903737-06RE1 PDI-052SC-B-02-04-191015 ...	29-Feb-20	18:21:18
11	200229R1_11	1903737-07RE1 PDI-052SC-B-04-06-191015 ...	29-Feb-20	19:08:42
12	200229R1_12	1903737-08RE1 PDI-052SC-B-06-08-191015 ...	29-Feb-20	19:56:07
13	200229R1_13	1903737-09RE1 PDI-055SC-B-00-02-191015 ...	29-Feb-20	20:43:33
14	200229R1_14	1903737-10RE1 PDI-055SC-B-02-04-191015 ...	29-Feb-20	21:30:57
15	200229R1_15	1904208-10RE1@5X PDI-137RAB-10-17-7-19...	29-Feb-20	22:18:24

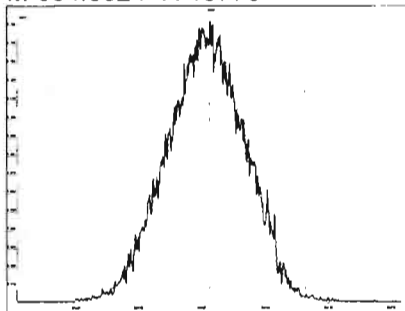
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, February 29, 2020 11:07:21 Pacific Standard Time

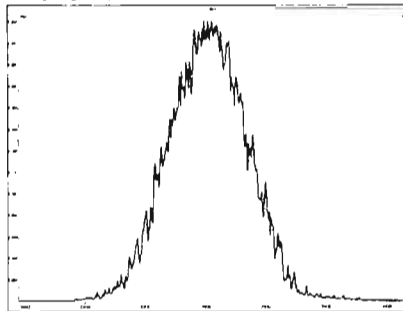
M 292.9824 R 10961



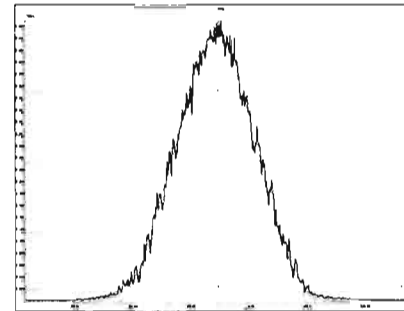
M 304.9824 R 10775



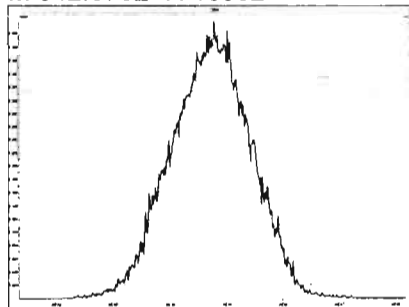
M 318.9792 R 11572



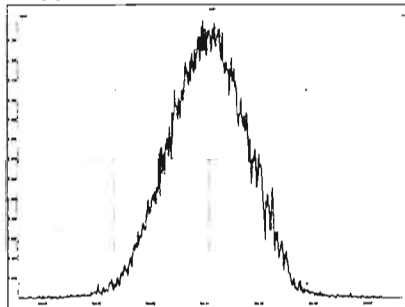
M 330.9792 R 10594



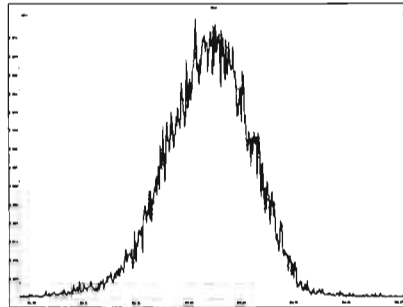
M 342.9792 R 10592



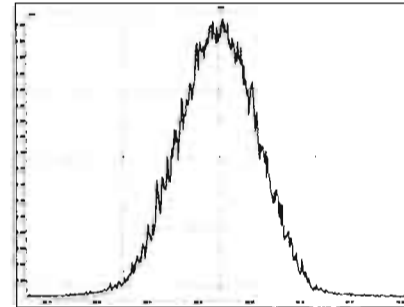
M 354.9792 R 11158



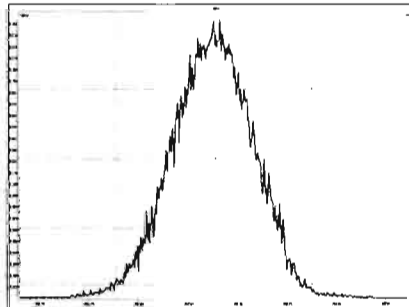
M 366.9792 R 10000



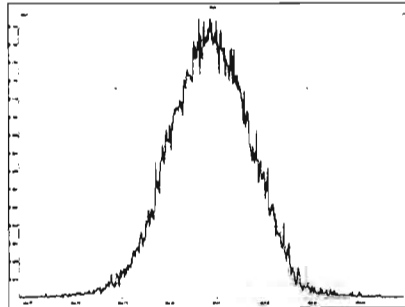
M 380.9760 R 10329



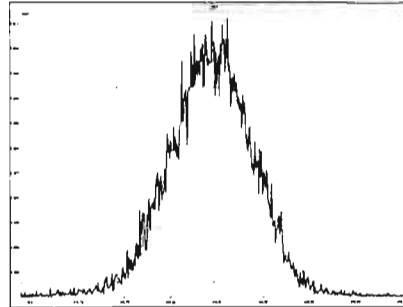
M 392.9760 R 10501



M 404.9760 R 10916



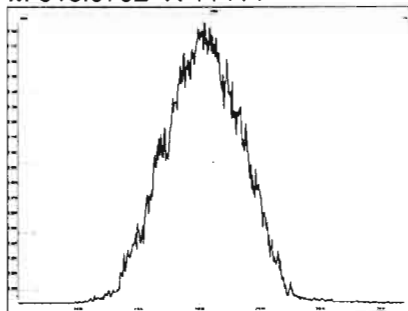
M 416.9760 R 10824



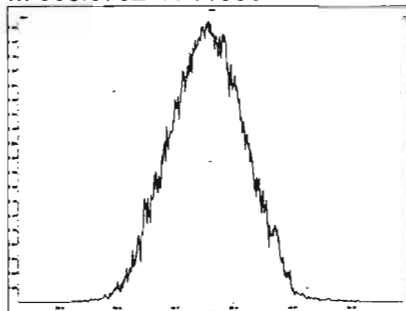
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, February 29, 2020 11:07:50 Pacific Standard Time

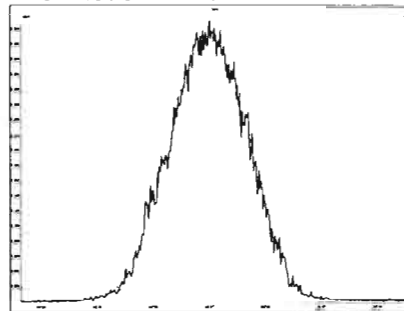
M 318.9792 R 11414



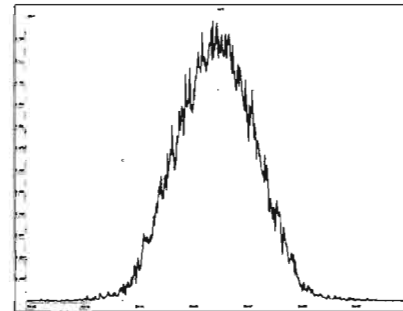
M 330.9792 R 11360



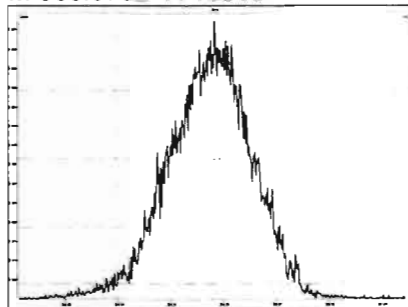
M 342.9792 R 10776



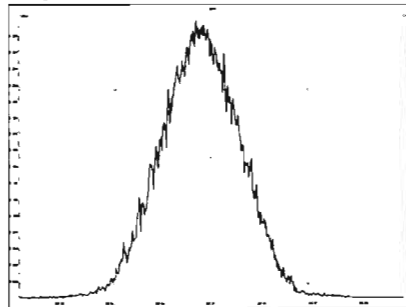
M 354.9792 R 10915



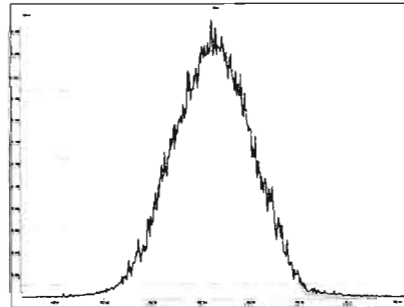
M 366.9792 R 10505



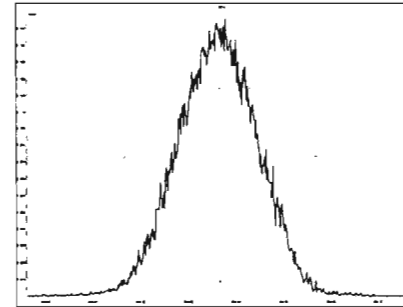
M 380.9760 R 10503



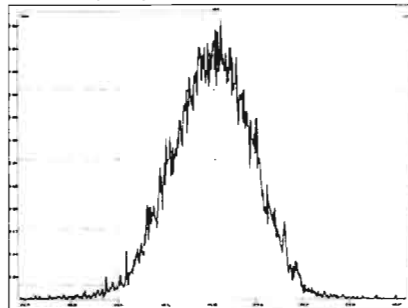
M 392.9760 R 10731



M 404.9760 R 10965



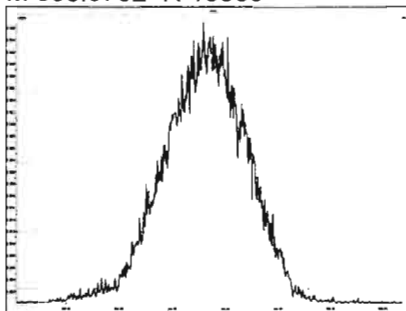
M 416.9760 R 10415



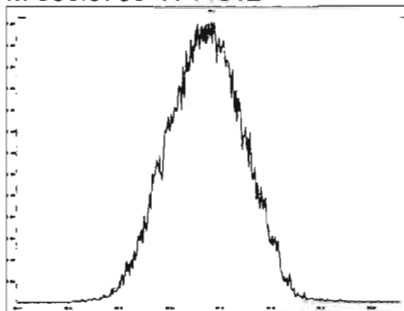
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, February 29, 2020 11:08:16 Pacific Standard Time

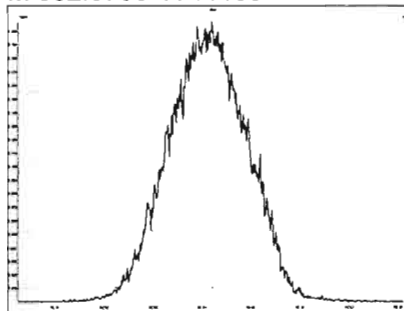
M 366.9792 R 10505



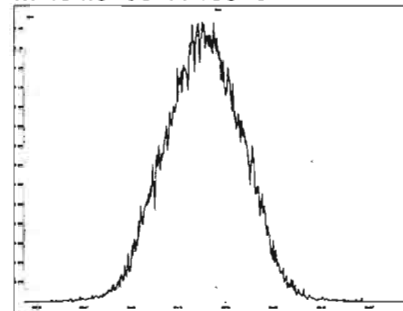
M 380.9760 R 11012



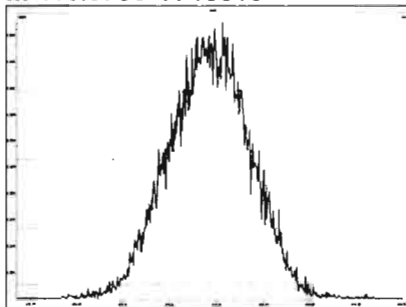
M 392.9760 R 11109



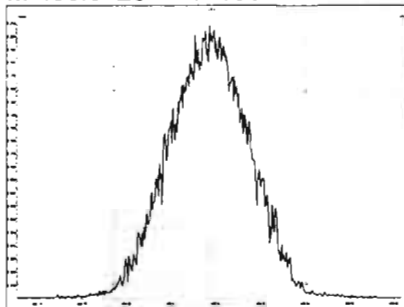
M 404.9760 R 10870



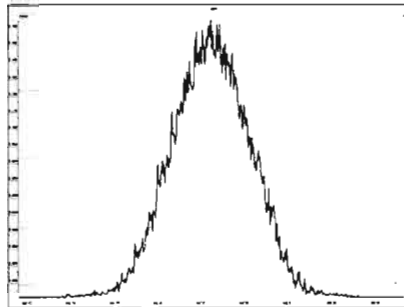
M 416.9760 R 10915



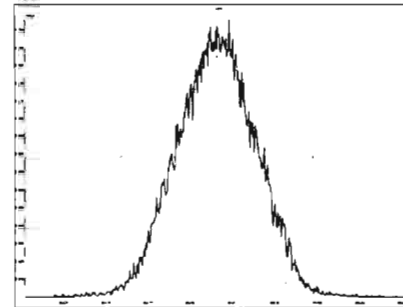
M 430.9728 R 11158



M 442.9728 R 10964



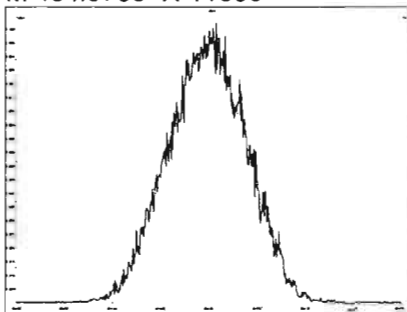
M 454.9728 R 10728



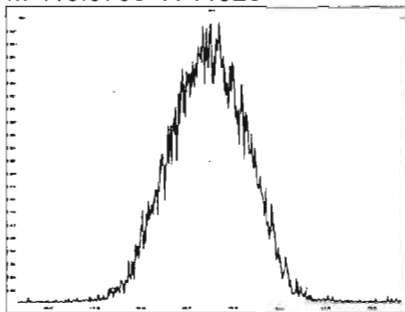
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Printed: Saturday, February 29, 2020 11:08:46 Pacific Standard Time

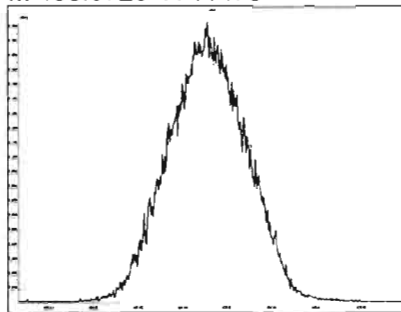
M 404.9760 R 11063



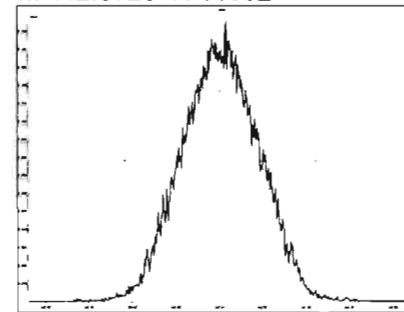
M 416.9760 R 11520



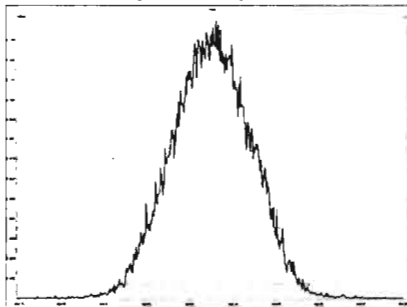
M 430.9728 R 11470



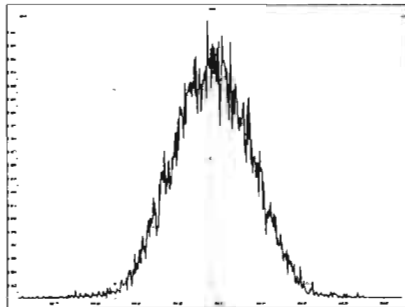
M 442.9728 R 11062



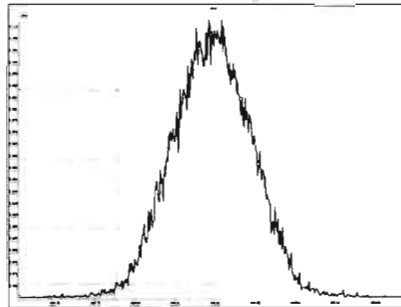
M 454.9728 R 11061



M 466.9728 R 11063



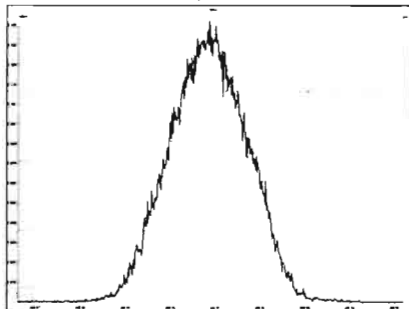
M 480.9696 R 11013



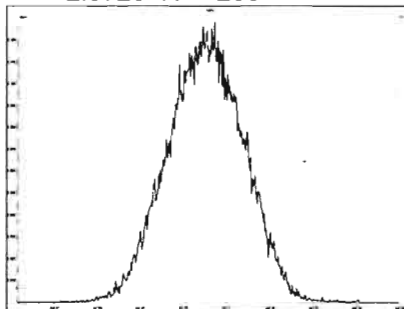
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, February 29, 2020 11:09:11 Pacific Standard Time

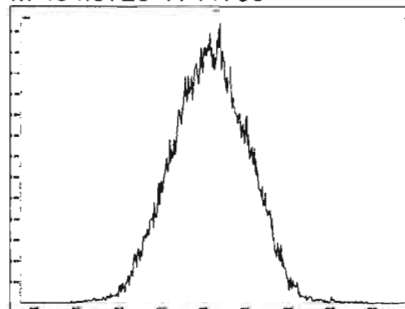
M 430.9728 R 10964



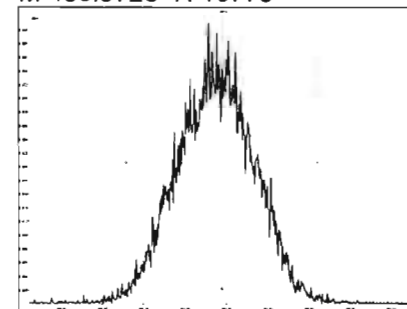
M 442.9728 R 11263



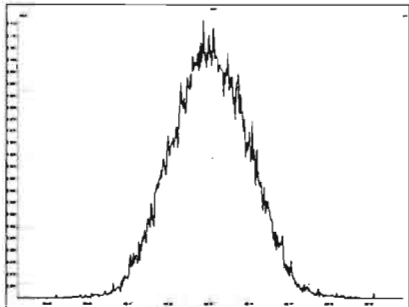
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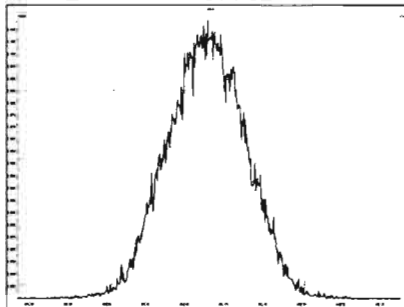
M 466.9728 R 10775



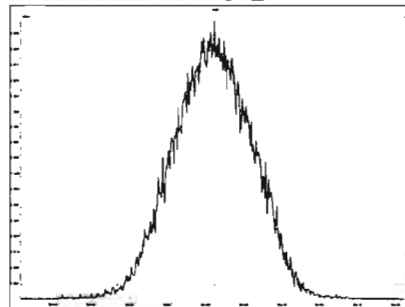
M 480.9696 R 10963



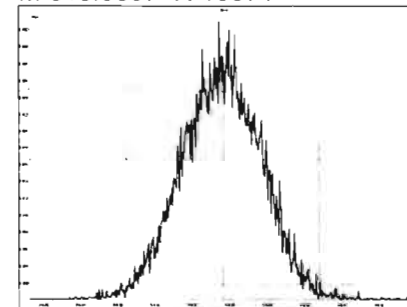
M 492.9696 R 10776



M 504.9696 R 11012



M 516.9697 R 10371



Dataset: U:\VG12.PRO\Results\200229R1\200229R1-CPSM.qld

Last Altered: Saturday, February 29, 2020 12:03:51 Pacific Standard Time
Printed: Saturday, February 29, 2020 12:12:51 Pacific Standard Time

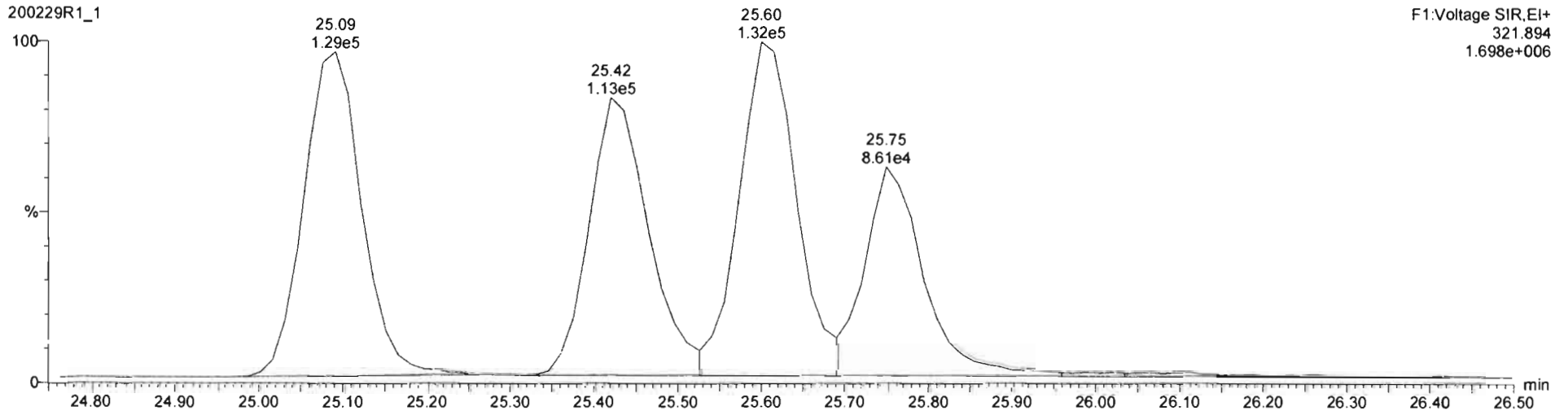
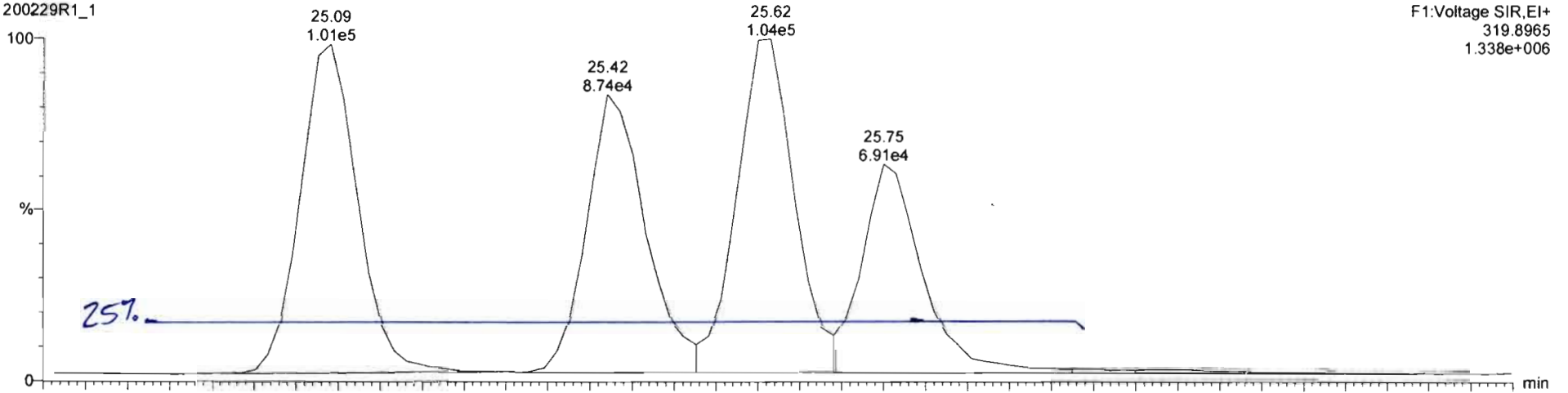
GPB 03/02/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 27 Feb 2020 10:59:03
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

C7 03/02/2020

Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200229R1_1



Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

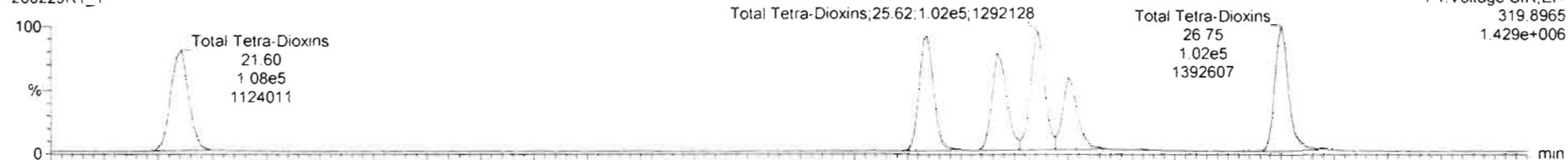
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Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

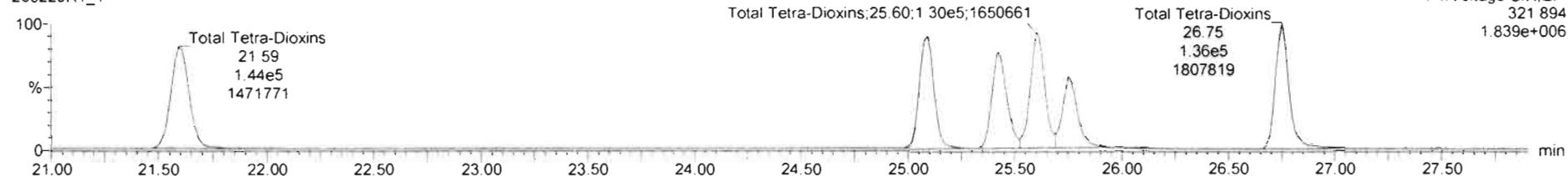
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2,3,7,8-TCDD

200229R1_1

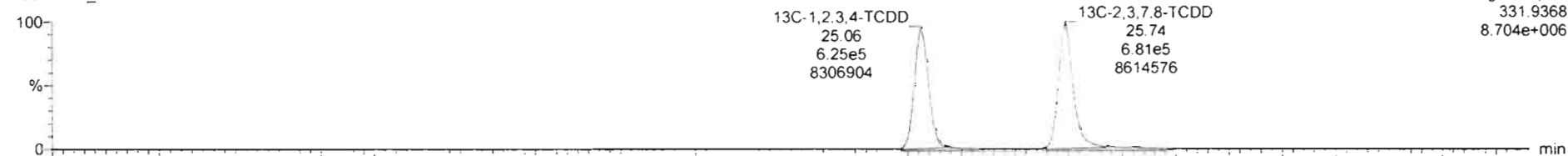


200229R1_1

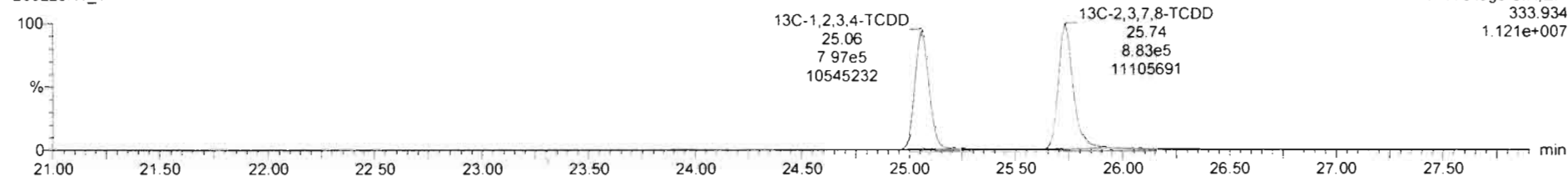


13C-2,3,7,8-TCDD

200229R1_1



200229R1_1



Dataset: Untitled

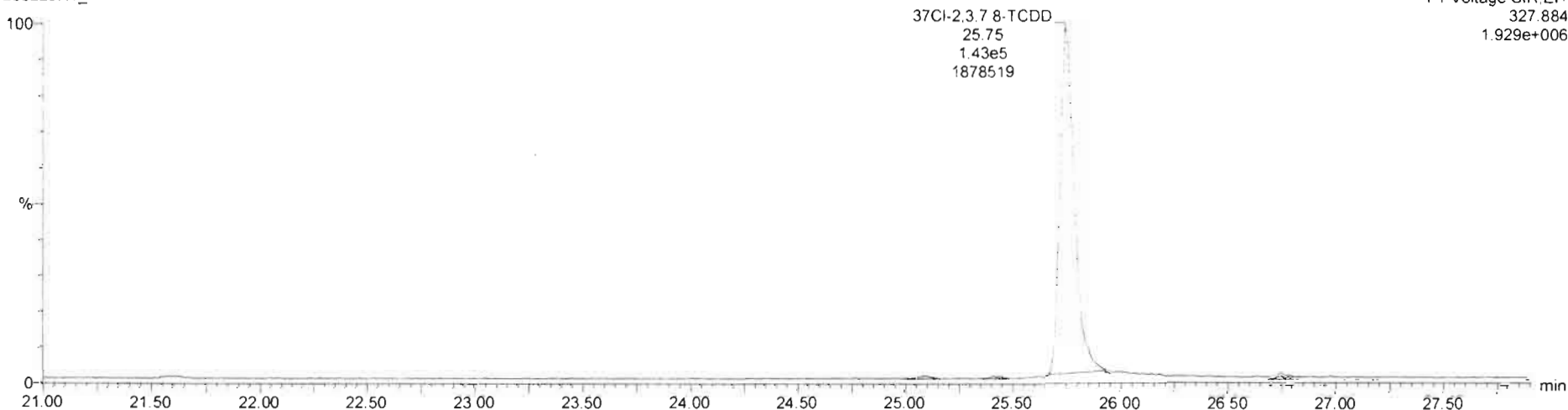
Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

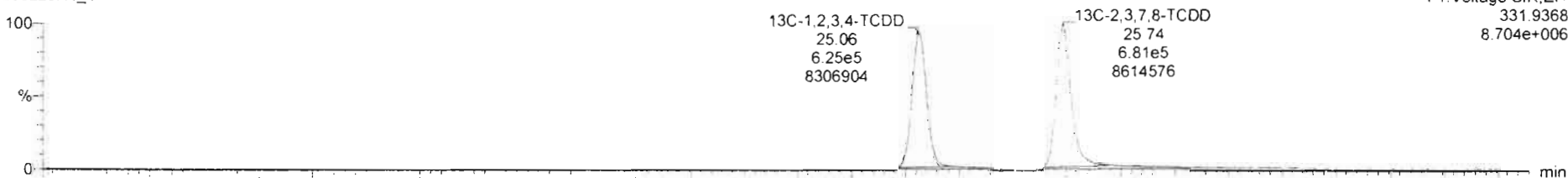
37Cl-2,3,7,8-TCDD

200229R1_1

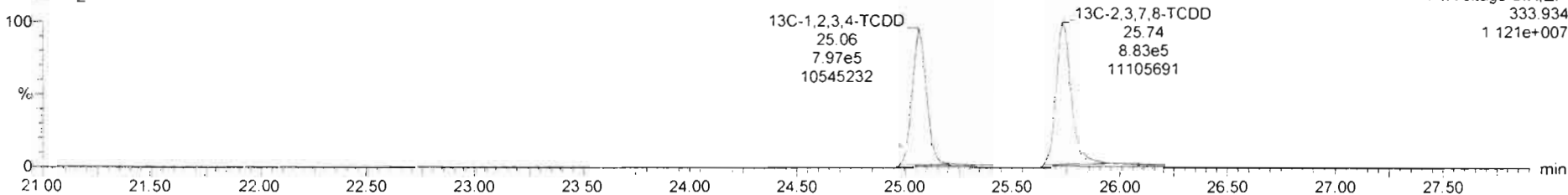


13C-1,2,3,4-TCDD

200229R1_1



200229R1_1



Dataset: Untitled

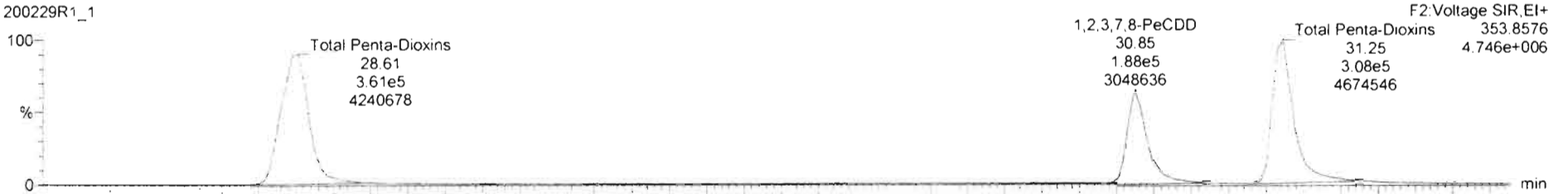
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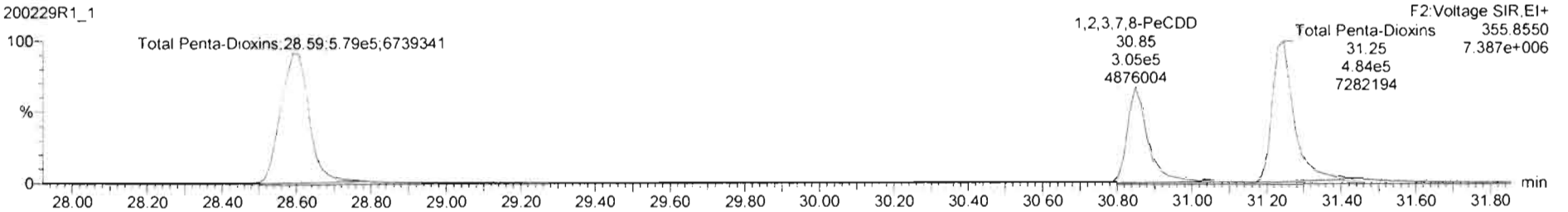
Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200229R1_1

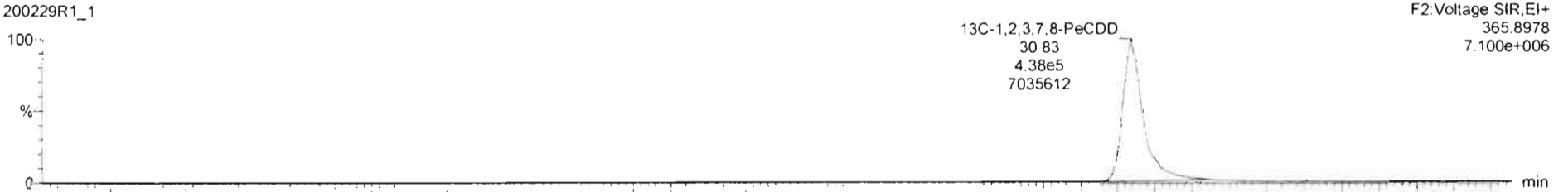


200229R1_1

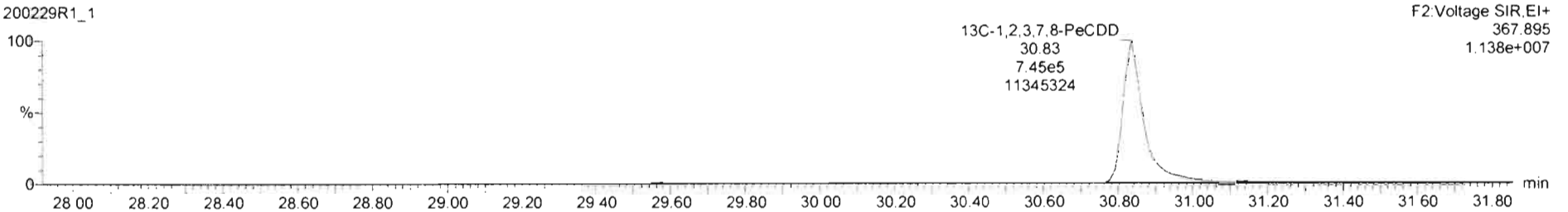


13C-1,2,3,7,8-PeCDD

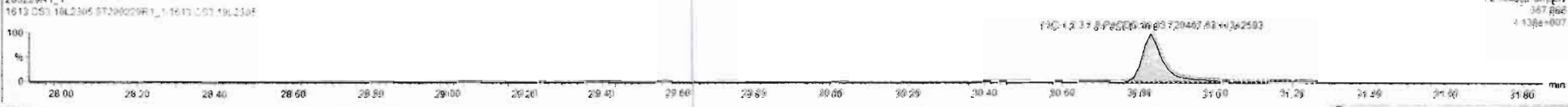
200229R1_1



200229R1_1



#	Name	Resp	IS Resp	Pred RA	RA	dy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Cnc	%Rec	STD out
1	2,3,7,8-TCDD	1.48e5	1.56e5	0.77	0.79	NO	0.9881	25.77	25.75	NO	1.001	1.001	5.47	94.7	NO
2	1,2,3,7,8-PeCDD	5.00e5	1.17e6	0.63	0.60	NO	0.9723	30.86	30.85	NO	1.001	1.000	44.7	89.5	NO
3	1,2,3,4,7,8-HxCDD	1.92e5	7.66e5	1.24	1.23	NO	1.0708	34.23	34.23	NO	1.000	1.000	47.7	95.4	NO
4	1,2,3,6,7,8-HxCDD	5.12e5	1.51e6	1.24	1.22	NO	0.9211	34.32	34.34	NO	1.000	1.001	50.2	110	NO
5	1,2,3,7,8-HxCDD	4.01e5	8.58e5	1.24	1.12	NO	0.9162	34.63	34.61	NO	1.001	1.000	50.9	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.84e5	6.44e5	1.04	0.95	NO	0.9231	38.11	38.12	NO	1.000	1.001	47.8	95.7	NO
7	OCDD	5.72e5	1.21e6	0.89	0.80	NO	0.9748	41.19	41.20	NO	1.000	1.000	37.3	97.3	NO
8	2,3,7,8-TCDF	1.71e5	2.09e5	0.77	0.75	NO	0.9820	24.82	24.81	NO	1.001	1.001	16.2	102	NO
9	1,2,3,7,8-PeCDF	7.28e5	1.69e6	1.55	1.57	NO	0.9974	29.54	29.54	NO	1.001	1.001	47.6	95.2	NO
10	1,2,3,4,7,8-HxCDF	7.44e5	1.58e6	1.55	1.55	NO	0.9516	30.54	30.53	NO	1.001	1.001	49.5	99.1	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.75e5	1.24	1.18	NO	0.9823	33.38	33.37	NO	1.000	1.000	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	5.96e5	1.25e6	1.24	1.17	NO	0.9414	33.49	33.50	NO	1.000	1.001	56.6	113	NO
13	1,2,3,4,6,7,8-HpCDF	5.38e5	1.07e6	1.24	1.22	NO	0.9562	34.09	34.06	NO	1.001	1.000	55.9	112	NO
14	1,2,3,7,8-HxCDF	3.95e5	8.39e5	1.24	1.22	NO	0.9578	34.54	34.55	NO	1.000	1.000	54.9	110	NO
15	1,2,3,4,6,7,8-HpCDF	3.72e5	8.03e5	1.04	1.00	NO	0.9511	36.72	36.68	NO	1.001	1.000	54.7	109	NO
16	1,2,3,4,7,8,9-HpCDF	2.88e5	5.21e5	1.04	1.02	NO	0.9796	36.75	36.75	NO	1.000	1.000	55.3	111	NO
17	OCDF	5.88e5	1.51e6	0.89	0.80	NO	0.9855	41.37	41.38	NO	1.000	1.000	38.6	98.6	NO
18	13C-2,3,7,8-TCDD	1.58e6	1.42e6	0.77	0.77	NO	1.1985	25.71	25.74	NO	1.026	1.027	91.8	51.8	NO
19	13C-1,2,3,7,8-PeCDD	1.17e6	1.42e6	0.63	0.62	NO	0.9867	30.84	30.83	NO	1.230	1.230	95.1	65.1	NO
20	13C-1,2,3,4,7,8-HxCDD	7.69e5	1.01e6	1.24	1.27	NO	0.8739	34.21	34.22	NO	1.014	1.014	87.5	87.5	NO
21	13C-1,2,3,6,7,8-HxCDD	1.01e6	1.01e6	1.24	1.25	NO	1.0458	34.32	34.32	NO	1.017	1.017	95.8	95.8	NO



Dataset: Untitled

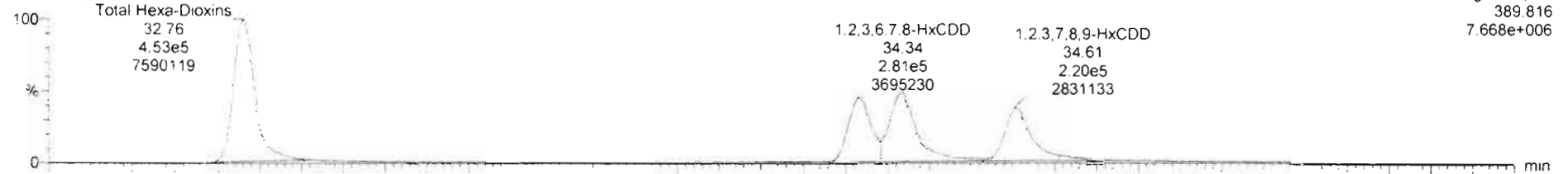
Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

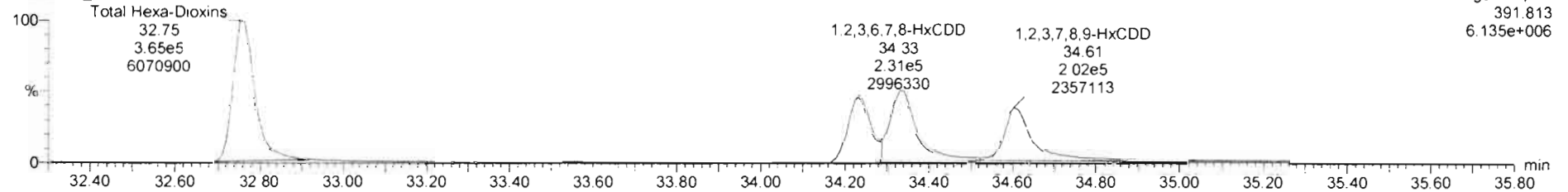
Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200229R1_1

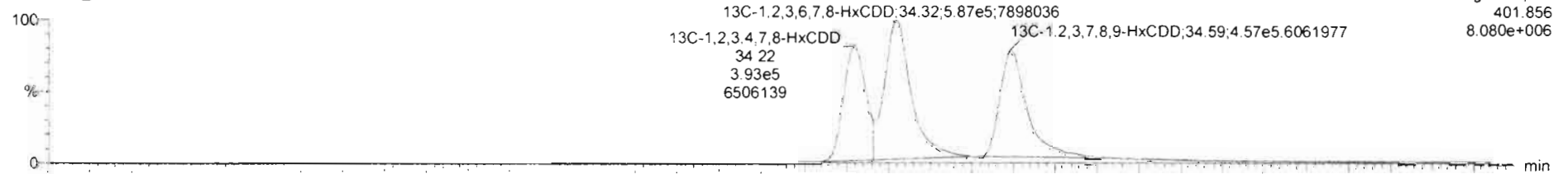


200229R1_1

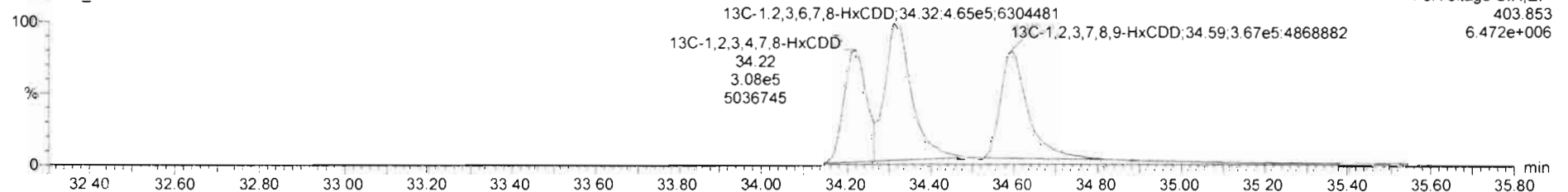


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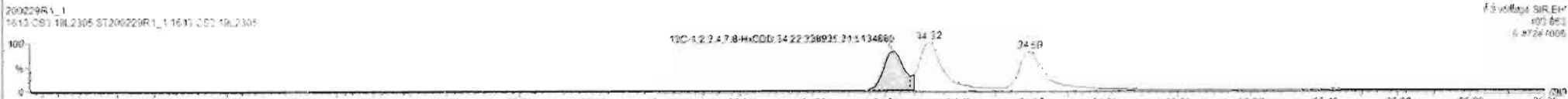
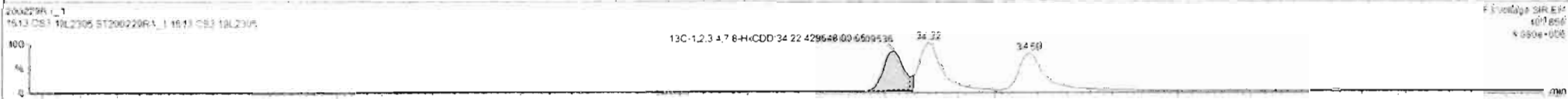
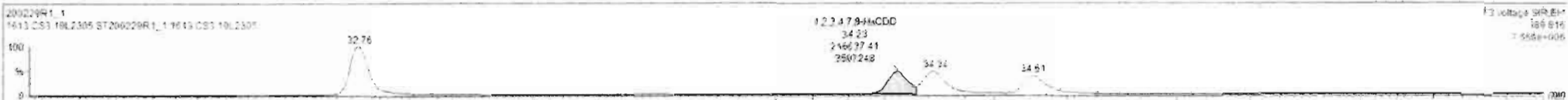
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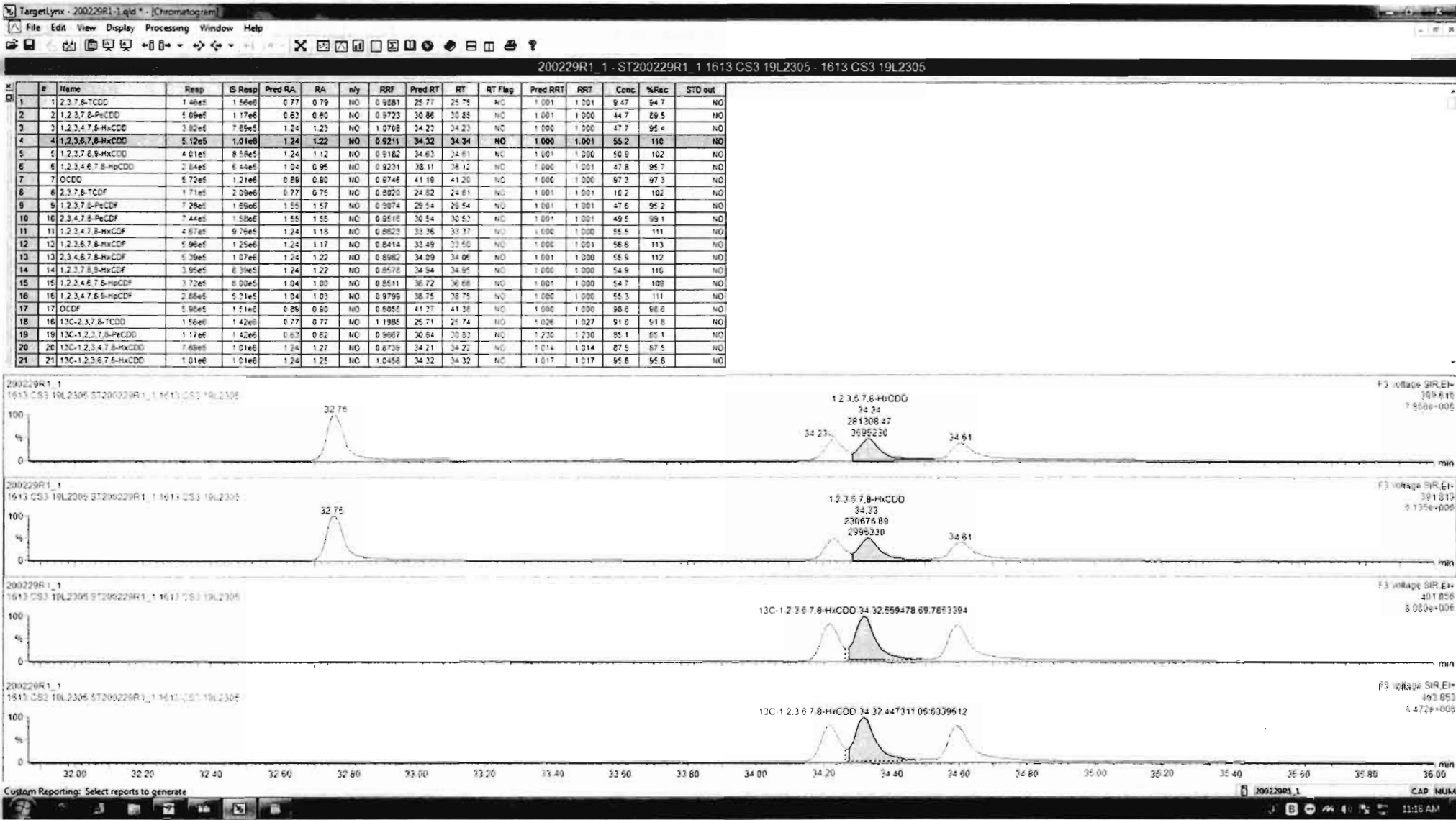


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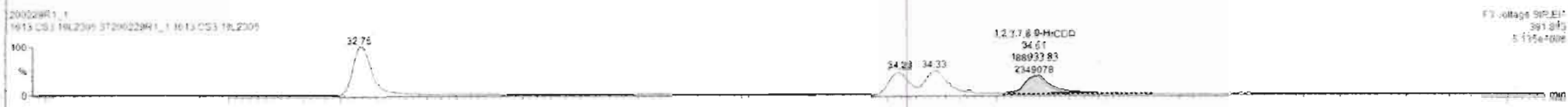


#	Name	Resp	IS Resp	Pred RA	RA	aly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1.2,3,7,8-TCDD	1.46e5	1.56e6	0.77	0.79	NO	0.9881	25.77	25.75	NO	1.001	1.001	9.47	64.7	NO
2	1.2,3,7,8-PeCDD	5.09e5	1.17e6	0.63	0.63	NO	0.9723	30.95	30.85	NO	1.001	1.000	44.7	66.5	NO
3	1.2,3,4,7,8-HxCDD	3.82e5	7.69e5	1.24	1.23	NO	1.0708	34.23	34.23	NO	1.000	1.000	47.7	95.4	NO
4	1.2,3,6,7,8-HxCDD	5.12e5	1.01e6	1.24	1.22	NO	0.9211	34.32	34.34	NO	1.000	1.001	55.2	110	NO
5	1.2,3,7,8,9-HxCDD	4.01e5	8.56e5	1.24	1.12	NO	0.9182	34.63	34.61	NO	1.001	1.000	50.9	102	NO
6	1.2,3,4,6,7,8-HpCDD	2.84e5	6.44e5	1.04	0.95	NO	0.9231	38.11	38.12	NO	1.000	1.001	47.8	95.7	NO
7	OCDD	5.72e5	1.21e6	0.89	0.90	NO	0.9748	41.19	41.20	NO	1.000	1.000	97.3	97.3	NO
8	2,3,7,8-TCDF	1.71e5	2.09e6	0.77	0.75	NO	0.8020	24.82	24.81	NO	1.001	1.001	10.2	102	NO
9	1.2,3,7,8-PeCDF	7.28e5	1.69e6	1.55	1.57	NO	0.9074	29.54	29.54	NO	1.001	1.001	47.6	95.2	NO
10	1.2,3,4,7,8-PeCDF	7.44e5	1.58e6	1.55	1.55	NO	0.9519	30.54	30.53	NO	1.001	1.001	48.5	96.1	NO
11	1.2,3,4,7,8-HxCDF	4.67e5	9.76e5	1.24	1.18	NO	0.8823	33.36	33.37	NO	1.000	1.000	55.1	111	NO
12	1.2,3,6,7,8-HxCDF	5.96e5	1.25e6	1.24	1.17	NO	0.8414	33.49	33.50	NO	1.000	1.001	56.6	113	NO
13	1.2,3,4,6,7,8-HxCDF	5.39e5	1.07e6	1.24	1.22	NO	0.8962	34.09	34.09	NO	1.001	1.000	55.9	112	NO
14	1.2,3,7,8,9-HxCDF	3.65e5	6.39e5	1.24	1.22	NO	0.8578	34.94	34.95	NO	1.000	1.000	54.9	110	NO
15	1.2,3,4,6,7,8-HpCDF	3.72e5	8.00e5	1.04	1.00	NO	0.8511	36.72	36.68	NO	1.001	1.000	54.7	109	NO
16	1.2,3,4,7,8,9-HpCDF	2.88e5	5.21e5	1.54	1.03	NO	0.8796	36.75	36.75	NO	1.000	1.000	55.3	111	NO
17	OCDF	5.80e5	1.51e6	0.89	0.90	NO	0.8955	41.37	41.38	NO	1.000	1.000	96.6	96.6	NO
18	13C-2,3,7,8-TCDD	1.58e6	1.42e6	0.77	0.77	NO	1.1985	25.71	25.74	NO	1.026	1.027	51.0	51.8	NO
19	13C-1,2,3,7,8-PeCDD	1.17e6	1.42e6	0.63	0.62	NO	0.9667	30.84	30.83	NO	1.230	1.230	85.1	85.1	NO
20	13C-1,2,3,4,7,8-HxCDD	7.69e5	1.91e6	1.24	1.27	NO	0.8739	34.21	34.22	NO	1.014	1.014	87.5	87.5	NO
21	13C-1,2,3,6,7,8-HxCDD	1.01e6	1.01e6	1.24	1.25	NO	1.0455	34.32	34.32	NO	1.017	1.017	95.6	95.6	NO





#	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	1.48e5	1.56e5	0.77	0.79	NO	0.9681	25.77	25.75	NO	1.001	1.001	9.47	54.7	NO
2	1,2,3,7,8-PeCDD	5.09e5	1.17e6	0.65	0.65	NO	0.9723	30.88	30.88	NO	1.001	1.000	44.7	88.5	NO
3	1,2,3,7,8-HxCDD	2.92e5	7.69e5	1.24	1.25	NO	1.0708	34.23	34.23	NO	1.000	1.000	47.7	95.4	NO
4	1,2,3,6,7,8-HxCDD	5.12e5	1.01e6	1.24	1.22	NO	0.9211	34.32	34.34	NO	1.000	1.001	55.2	110	NO
5	1,2,3,7,8,9-HxCDD	4.01e5	8.58e5	1.24	1.12	NO	0.9182	34.63	34.61	NO	1.001	1.000	50.9	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.64e5	6.44e5	1.04	0.95	NO	0.9231	35.11	35.12	NO	1.000	1.001	47.8	95.7	NO
7	OCDD	5.72e5	1.21e6	0.89	0.90	NO	0.9748	41.19	41.20	NO	1.000	1.000	97.3	97.3	NO
8	2,3,7,8-TCDF	1.71e5	2.09e5	0.77	0.75	NO	0.9225	24.82	24.81	NO	1.001	1.001	18.2	102	NO
9	1,2,3,7,8-PeCDF	7.26e5	1.89e6	1.55	1.57	NO	0.9074	29.54	29.54	NO	1.001	1.001	47.6	95.2	NO
10	2,3,4,7,8-PeCDF	7.44e5	1.58e6	1.55	1.55	NO	0.9516	30.54	30.53	NO	1.001	1.001	49.5	99.1	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.78e5	1.24	1.18	NO	0.9622	33.36	33.37	NO	1.000	1.000	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	5.56e5	1.25e6	1.24	1.17	NO	0.8414	33.45	33.50	NO	1.000	1.001	56.6	112	NO
13	2,3,4,6,7,8-HxCDF	5.39e5	1.07e6	1.24	1.22	NO	0.8982	34.09	34.00	NO	1.001	1.000	55.9	112	NO
14	1,2,3,7,8,9-HxCDF	3.98e5	8.39e5	1.24	1.22	NO	0.8578	34.64	34.95	NO	1.000	1.000	54.9	110	NO
15	1,2,3,4,6,7,8-HpCDF	3.72e5	8.00e5	1.04	1.00	NO	0.8811	36.72	36.68	NO	1.001	1.000	54.7	109	NO
16	1,2,3,4,7,8,9-HpCDF	2.88e5	5.71e5	1.04	1.03	NO	0.9795	36.75	36.75	NO	1.000	1.000	55.2	111	NO
17	OCDF	5.98e5	1.51e6	0.89	0.90	NO	0.9065	41.27	41.38	NO	1.000	1.000	98.6	98.6	NO
18	13C-1,2,3,7,8-TCDD	1.56e5	1.42e5	0.77	0.77	NO	1.1985	25.71	25.74	NO	1.026	1.027	51.8	91.6	NO
19	13C-1,2,3,7,8-PeCDD	1.17e5	1.42e5	0.65	0.62	NO	0.9667	30.84	30.85	NO	1.230	1.230	85.1	85.1	NO
20	13C-1,2,3,4,7,8-HxCDD	7.69e5	1.01e6	1.24	1.27	NO	0.8735	34.21	34.22	NO	1.014	1.014	87.5	87.1	NO
21	13C-1,2,3,6,7,8-HxCDD	1.01e6	1.01e6	1.24	1.25	NO	1.0458	34.32	34.32	NO	1.017	1.017	95.8	95.8	NO



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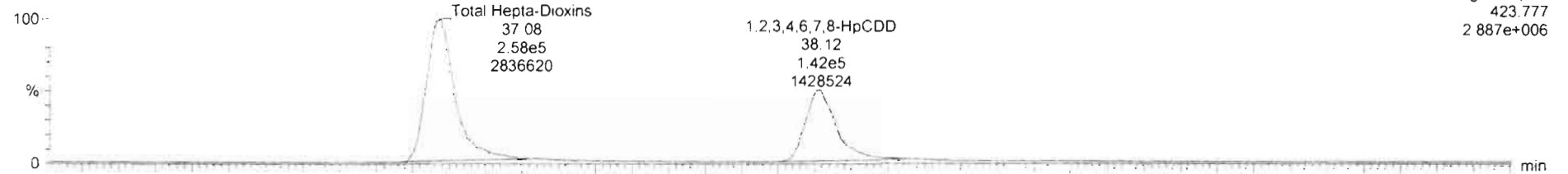
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

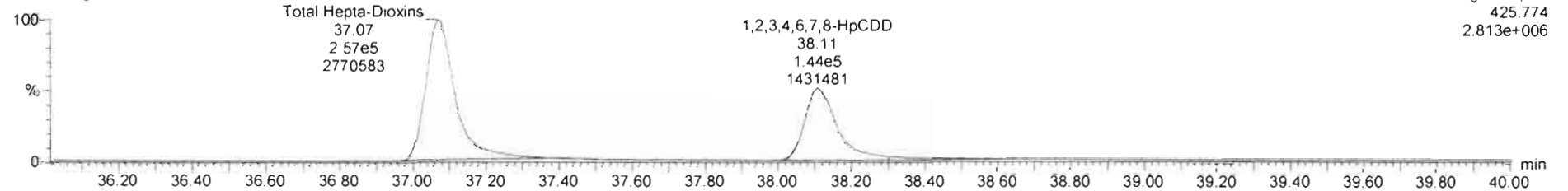
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200229R1_1

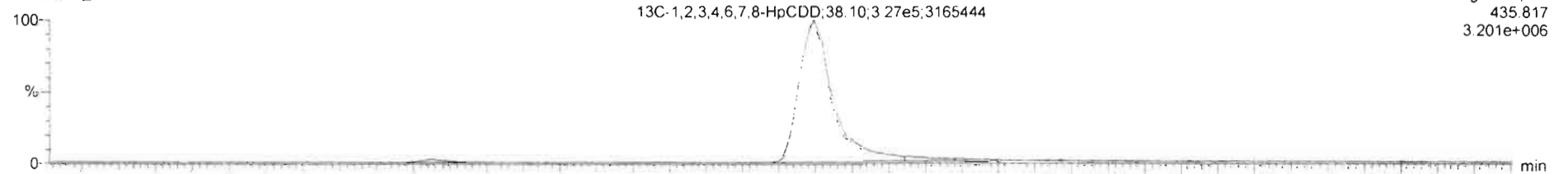


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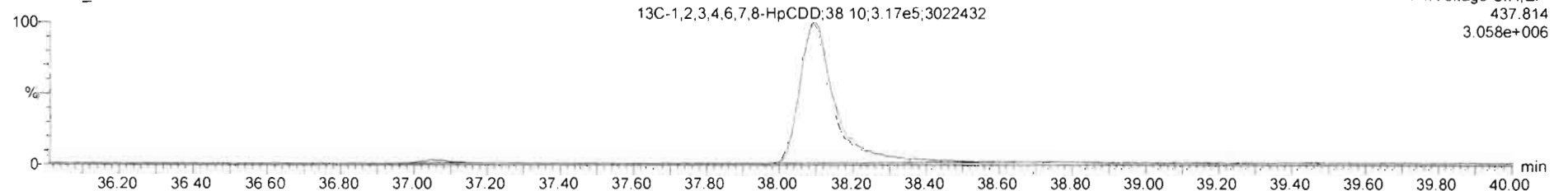


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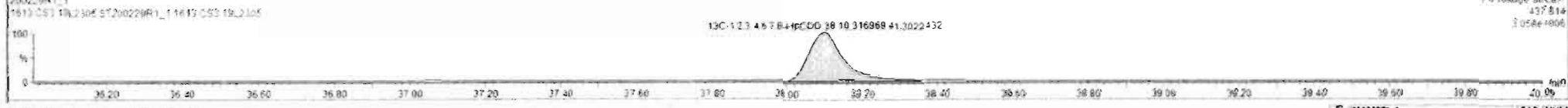
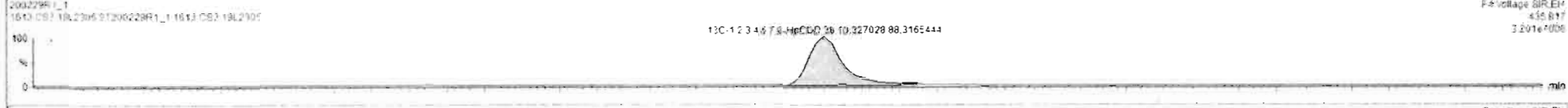
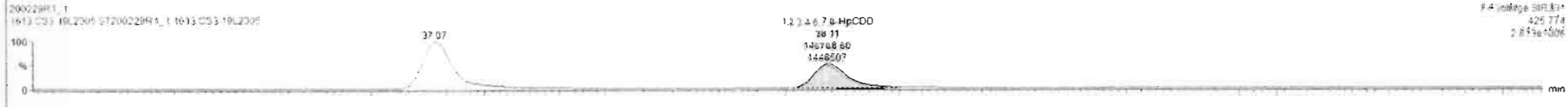
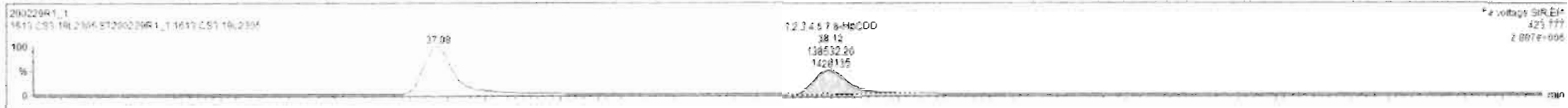
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200229R1_1



#	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	1.46e5	1.56e5	0.77	0.79	NO	0.9881	25.77	25.75	NO	1.001	1.001	5.47	94.7	NO
2	1,2,3,7,8-PeCDD	5.09e5	1.17e6	0.63	0.60	NO	0.9723	30.86	30.85	NO	1.001	1.000	44.7	89.5	NO
3	1,2,3,4,7,8-HxCDD	3.92e5	7.69e5	1.24	1.23	NO	1.0708	34.23	34.23	NO	1.000	1.000	47.7	95.4	NO
4	1,2,3,6,7,8-HxCDD	5.12e5	1.01e6	1.24	1.22	NO	0.9211	34.32	34.34	NO	1.000	1.001	55.2	110	NO
5	1,2,3,7,8,9-HxCDD	4.01e5	8.58e5	1.24	1.12	NO	0.9182	34.63	34.61	NO	1.001	1.000	50.1	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.64e5	6.44e5	1.04	0.95	NO	0.9231	38.11	38.12	NO	1.000	1.001	47.8	95.7	NO
7	OCDD	5.72e5	1.21e6	0.89	0.90	NO	0.9748	41.19	41.20	NO	1.000	1.000	97.1	97.3	NO
8	2,3,7,8-TCDF	1.71e5	2.09e5	0.77	0.75	NO	0.8020	24.82	24.81	NO	1.001	1.001	18.2	182	NO
9	1,2,3,7,8-PeCDF	7.29e5	1.69e6	1.55	1.57	NO	0.9974	29.54	29.54	NO	1.001	1.001	47.8	95.2	NO
10	2,3,4,7,8-PeCDF	7.44e5	1.58e6	1.55	1.55	NO	0.9518	30.54	30.53	NO	1.001	1.001	49.5	99.1	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.78e5	1.24	1.18	NO	0.8621	33.36	33.37	NO	1.000	1.000	46.1	111	NO
12	1,2,3,6,7,8-HxCDF	5.96e5	1.25e6	1.24	1.17	NO	0.8414	33.49	33.50	NO	1.000	1.001	56.6	113	NO
13	2,3,4,6,7,8-HxCDF	5.39e5	1.07e6	1.24	1.22	NO	0.8982	34.09	34.06	NO	1.001	1.000	55.9	112	NO
14	1,2,3,7,8,9-HxCDF	3.95e5	8.39e5	1.24	1.22	NO	0.8578	34.94	34.95	NO	1.000	1.000	54.9	110	NO
15	1,2,3,4,6,7,8-HpCDF	3.72e5	8.00e5	1.04	1.00	NO	0.8511	36.72	36.68	NO	1.001	1.000	54.7	109	NO
16	1,2,3,4,7,8,9-HpCDF	2.85e5	5.21e5	1.04	1.03	NO	0.9795	36.75	36.75	NO	1.000	1.000	55.3	111	NO
17	OCDF	5.98e5	1.51e6	0.89	0.90	NO	0.8055	41.37	41.36	NO	1.000	1.000	96.6	96.6	NO
18	13C-2,3,7,8-TCDD	1.56e5	1.42e5	0.77	0.77	NO	1.1985	25.71	25.74	NO	1.026	1.027	91.8	91.6	NO
19	13C-1,2,3,7,8-PeCDD	1.17e5	1.42e5	0.63	0.62	NO	0.9667	30.84	30.83	NO	1.230	1.230	95.1	95.1	NO
20	13C-1,2,3,4,7,8-HxCDD	7.69e5	1.01e6	1.24	1.27	NO	0.8738	34.21	34.22	NO	1.014	1.014	87.2	87.5	NO
21	13C-1,2,3,6,7,8-HxCDD	1.01e6	1.01e6	1.24	1.25	NO	1.0455	34.32	34.32	NO	1.017	1.217	95.8	95.8	NO



Dataset: Untitled

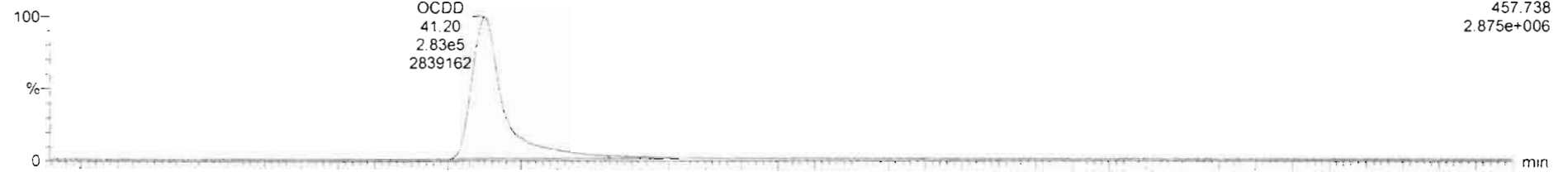
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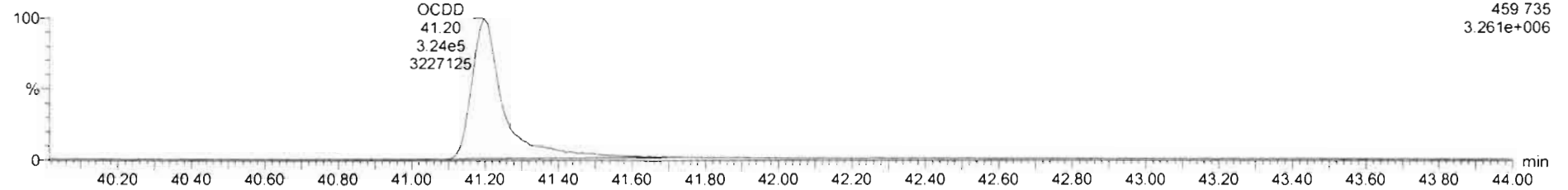
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OCDD

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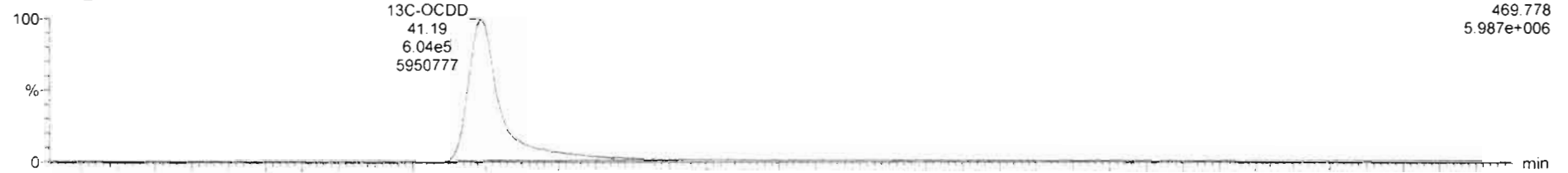


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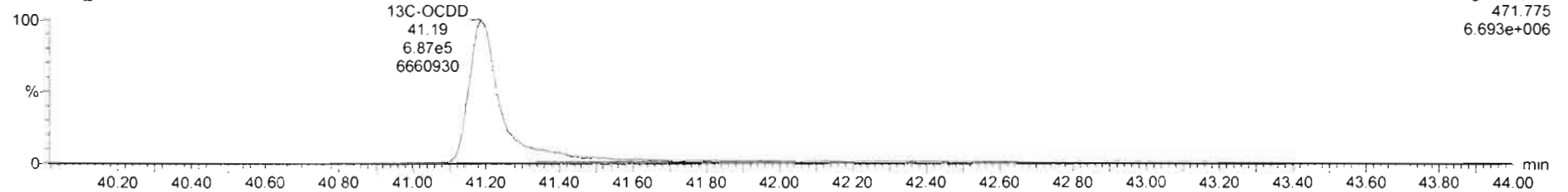


13C-OCDD

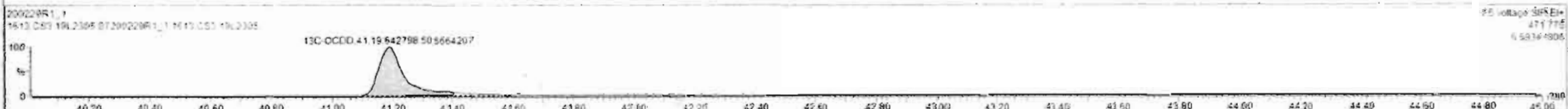
200229R1_1



200229R1_1



#	Name	Resp	S Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STU out
1	1,2,3,7,8-TCDD	1.46e5	1.55e6	0.77	0.79	NO	0.5881	25.77	25.75	NO	1.001	1.001	9.47	94.7	NO
2	1,2,3,7,8-PeCDD	5.09e5	1.17e6	0.63	0.60	NO	0.9723	30.86	30.85	NO	1.001	1.000	44.7	86.5	NO
3	1,2,3,4,7,8-HxCDD	2.92e5	7.89e5	1.24	1.23	NO	1.0708	34.23	34.23	NO	1.000	1.000	47.7	85.4	NO
4	1,2,3,6,7,8-HxCDD	5.12e5	1.01e6	1.24	1.22	NO	0.9211	34.32	34.34	NO	1.000	1.001	55.2	110	NO
5	1,2,3,7,8,9-HxCDD	4.01e5	8.55e5	1.24	1.22	NO	0.9182	34.63	34.61	NO	1.001	1.000	55.9	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.64e5	6.44e5	1.34	0.95	NO	0.9221	38.11	38.12	NO	1.000	1.001	47.8	86.7	NO
7	OCDD	5.72e5	1.21e6	0.89	0.90	NO	0.8746	41.19	41.20	NO	1.000	1.000	97.3	97.3	NO
8	1,2,3,7,8-TCDF	1.71e5	2.09e6	0.77	0.75	NO	0.8920	24.82	24.81	NO	1.001	1.001	10.2	102	NO
9	1,2,3,7,8-PeCDF	7.29e5	1.65e6	1.55	1.57	NO	0.9074	26.54	26.54	NO	1.001	1.001	47.6	95.2	NO
10	1,2,3,4,7,8-PeCDF	7.44e5	1.58e6	1.55	1.55	NO	0.8516	30.54	30.53	NO	1.001	1.001	49.5	96.1	NO
11	1,2,3,4,7,8-HxCDF	4.87e5	9.76e5	1.24	1.16	NO	0.8622	33.36	33.37	NO	1.000	1.000	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	5.96e5	1.25e6	1.24	1.17	NO	0.8414	33.49	33.50	NO	1.000	1.001	56.6	113	NO
13	1,2,3,4,6,7,8-HpCDF	6.39e5	1.07e6	1.24	1.22	NO	0.8962	34.09	34.06	NO	1.001	1.000	55.9	112	NO
14	1,2,3,7,8,9-HxCDF	3.95e5	8.39e5	1.24	1.22	NO	0.8578	34.84	34.95	NO	1.000	1.000	54.9	110	NO
15	1,2,3,4,6,7,8-HpCDF	3.72e5	8.00e5	1.34	1.00	NO	0.8511	36.72	36.88	NO	1.001	1.000	54.7	106	NO
16	1,2,3,4,7,8,9-HpCDF	2.88e5	5.31e5	1.34	1.02	NO	0.9795	38.75	38.75	NO	1.000	1.000	55.3	111	NO
17	OCDF	5.98e5	1.51e6	0.89	0.90	NO	0.8952	41.37	41.38	NO	1.000	1.000	96.8	96.8	NO
18	13C-1,2,3,7,8-TCDD	1.56e6	1.42e6	0.77	0.77	NO	1.1985	25.71	25.74	NO	1.026	1.027	91.6	91.6	NO
19	13C-1,2,3,7,8-PeCDD	1.17e6	1.42e6	0.63	0.62	NO	0.9667	30.84	30.83	NO	1.230	1.230	85.1	85.1	NO
20	13C-1,2,3,4,7,8-HxCDD	7.89e5	1.01e6	1.24	1.27	NO	0.8739	34.21	34.22	NO	1.014	1.014	87.5	87.5	NO
21	13C-1,2,3,6,7,8-HxCDD	1.01e6	1.01e6	1.24	1.26	NO	1.0458	34.32	34.32	NO	1.017	1.017	86.6	86.6	NO

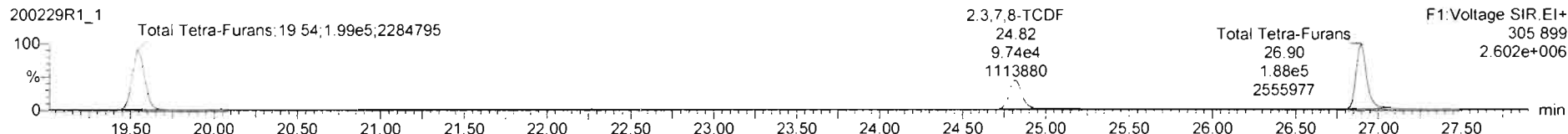
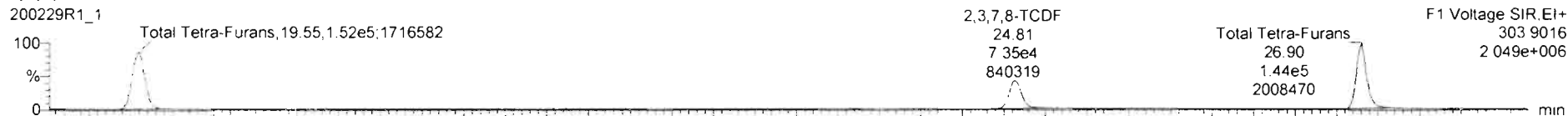


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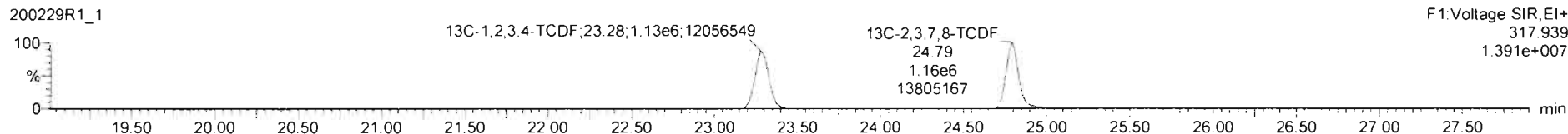
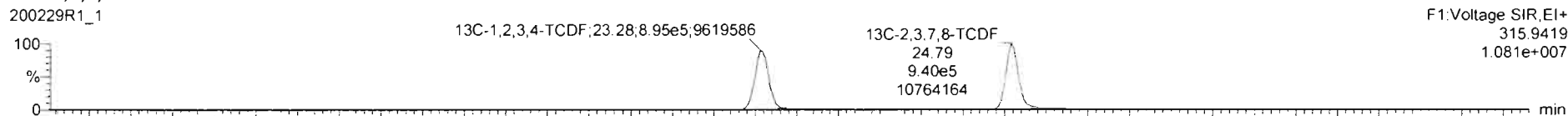
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Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

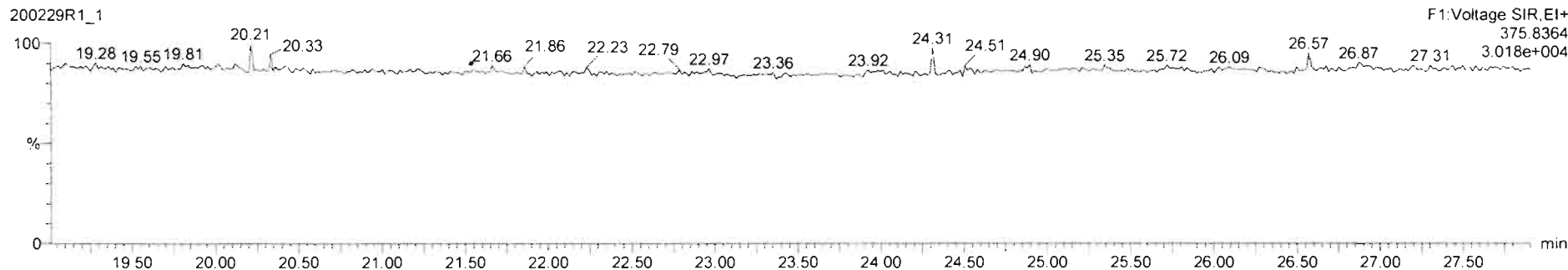
2,3,7,8-TCDF



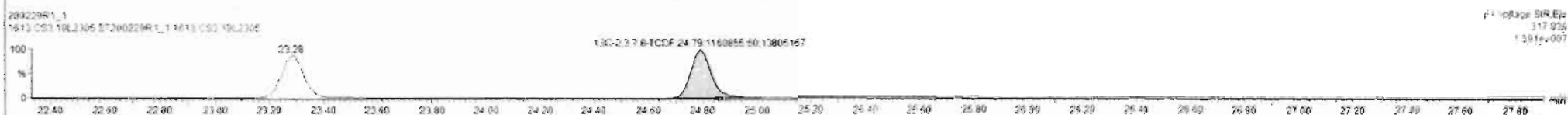
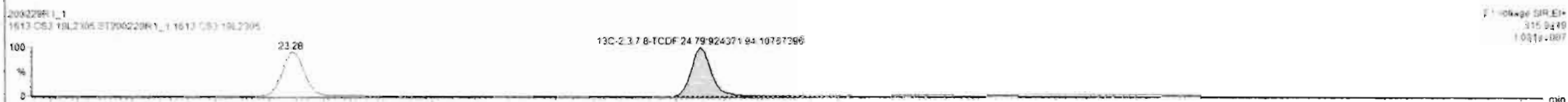
13C-2,3,7,8-TCDF



DPE1



#	Name	Resp	S Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.46e5	1.56e5	0.77	0.79	NO	0.9881	25.77	25.75	NO	1.001	1.001	9.47	94.7	NO
2	1,2,3,7,8-PeCDD	5.09e5	1.17e6	0.63	0.80	NO	0.9723	30.96	30.85	NO	1.001	1.000	44.7	89.5	NO
3	1,2,3,4,7,8-HxCDD	3.92e5	7.89e5	1.24	1.23	NO	1.0708	34.23	34.23	NO	1.000	1.000	47.7	95.4	NO
4	1,2,3,6,7,8-HxCDD	1.12e5	1.01e5	1.24	1.22	NO	0.9211	34.32	34.34	NO	1.000	1.001	56.2	110	NO
5	1,2,3,7,8,9-HxCDD	4.01e5	8.58e5	1.24	1.12	NO	0.9182	34.83	34.81	NO	1.001	1.000	50.9	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.64e5	6.44e5	1.04	0.95	NO	0.9231	38.11	38.12	NO	1.000	1.001	47.8	95.7	NO
7	OCDD	5.72e5	1.21e6	0.89	0.90	NO	0.9748	41.19	41.20	NO	1.000	1.000	97.3	97.3	NO
8	2,3,7,8-TCDF	1.71e5	2.09e5	0.77	0.75	NO	0.8820	24.82	24.81	NO	1.001	1.001	10.2	102	NO
9	1,2,3,7,8-PeCDF	7.29e5	1.05e6	1.55	1.57	NO	0.9074	29.34	29.54	NO	1.001	1.001	47.6	95.2	NO
10	2,3,4,7,8-PeCDF	7.44e5	1.58e6	1.55	1.55	NO	0.9518	30.54	30.53	NO	1.001	1.001	45.5	89.1	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.76e5	1.24	1.18	NO	0.8623	33.36	33.37	NO	1.000	1.000	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	5.90e5	1.25e6	1.24	1.17	NO	0.8414	33.45	33.50	NO	1.000	1.001	56.4	113	NO
13	2,3,4,6,7,8-HxCDF	5.39e5	1.07e6	1.24	1.22	NO	0.8962	34.09	34.06	NO	1.001	1.000	55.9	112	NO
14	1,2,3,7,8,9-HxCDF	3.95e5	8.39e5	1.24	1.22	NO	0.8570	34.84	34.95	NO	1.000	1.000	54.9	110	NO
15	1,2,3,4,6,7,8-HpCDF	2.72e5	6.00e5	1.04	1.00	NO	0.8511	36.72	36.68	NO	1.001	1.000	54.7	109	NO
16	1,2,3,4,7,8,9-HpCDF	2.88e5	5.31e5	1.04	1.03	NO	0.9799	36.75	36.75	NO	1.000	1.000	55.3	111	NO
17	OCDF	5.98e5	1.51e6	0.89	0.90	NO	0.8055	41.37	41.38	NO	1.000	1.000	98.6	98.6	NO
18	13C-2,3,7,8-TCDF	1.56e8	1.42e8	0.77	0.77	NO	1.1985	25.71	25.74	NO	1.026	1.027	91.8	91.8	NO
19	13C-1,2,3,7,8-PeCDD	1.17e6	1.42e6	0.63	0.62	NO	0.9687	30.84	30.83	NO	1.230	1.230	85.1	85.1	NO
20	13C-1,2,3,4,7,8-HxCDD	7.69e5	1.01e6	1.24	1.27	NO	0.9735	34.21	34.22	NO	1.014	1.014	87.5	87.5	NO
21	13C-1,2,3,6,7,8-HxCDD	1.01e6	1.01e6	1.24	1.25	NO	1.0458	34.32	34.32	NO	1.017	1.017	95.6	95.6	NO



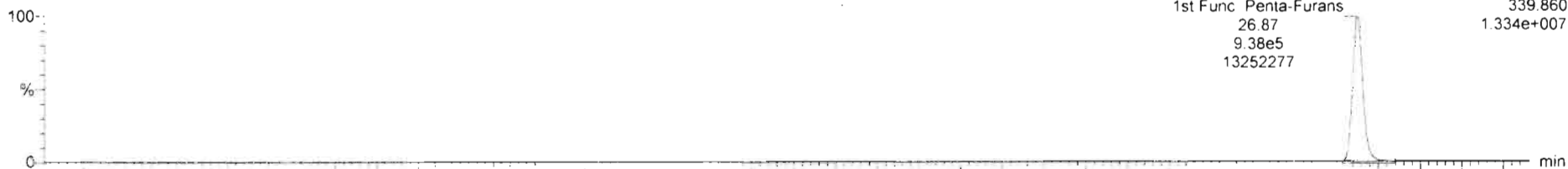
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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
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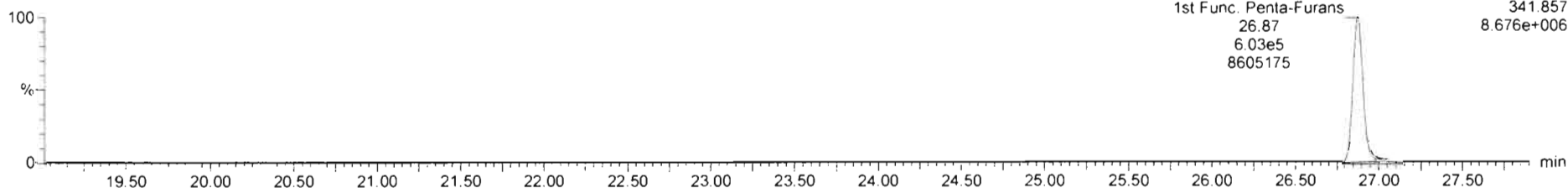
Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200229R1_1

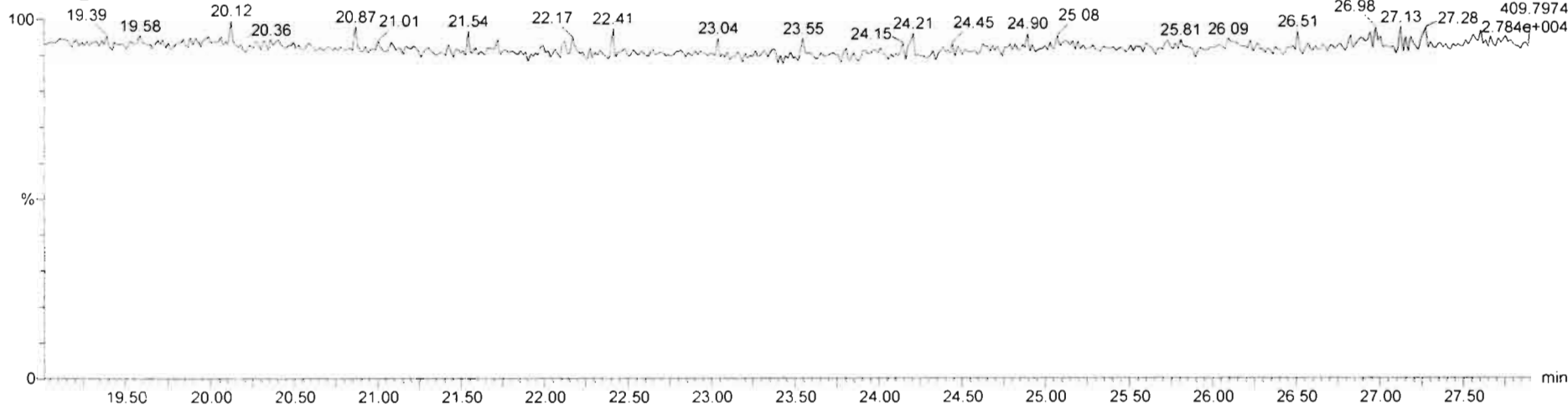


200229R1_1



DPE6

200229R1_1

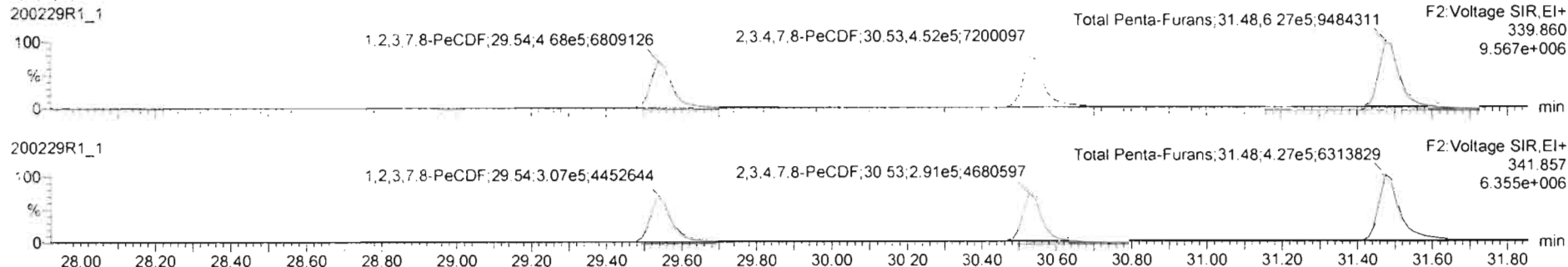


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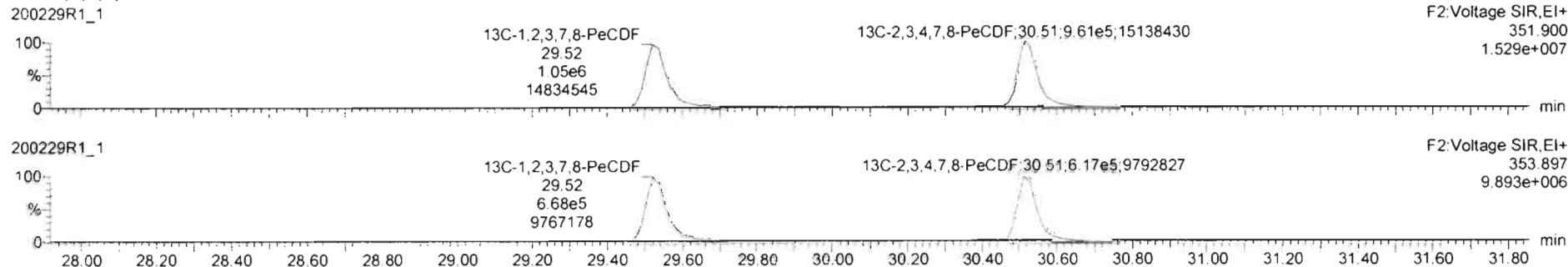
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Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

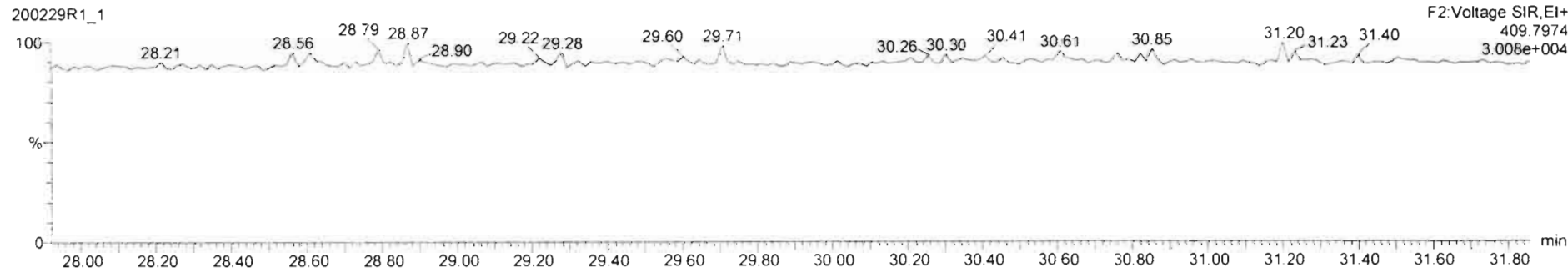
1,2,3,7,8-PeCDF



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



DPE2



200229R1_1 - ST200229R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	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	1.46e5	1.56e6	0.77	0.79	NO	0.9881	25.77	25.75	NO	1.001	1.001	9.47	94.7	NO
2	1,2,3,7,8-PeCDD	5.09e5	1.17e6	0.63	0.60	NO	0.9723	30.86	30.85	NO	1.001	1.000	44.7	65.5	NO
3	1,2,3,4,7,8-HxCDD	3.92e5	7.65e5	1.24	1.23	NO	1.0705	34.23	34.23	NO	1.000	1.000	47.7	85.4	NO
4	1,2,3,6,7,8-HxCDD	5.12e5	1.01e6	1.24	1.22	NO	0.9211	34.32	34.34	NO	1.000	1.001	55.2	110	NO
5	1,2,3,7,8-HxCDD	4.01e5	8.58e5	1.24	1.12	NO	0.9152	34.63	34.61	NO	1.001	1.000	56.9	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.64e5	6.44e5	1.04	0.95	NO	0.9231	38.11	38.12	NO	1.000	1.001	47.5	85.7	NO
7	OCDD	5.72e5	1.21e6	0.89	0.80	NO	0.9748	41.15	41.20	NO	1.000	1.000	97.2	97.3	NO
8	2,3,7,8-TCDF	1.71e5	2.09e5	0.77	0.75	NO	0.9923	24.82	24.81	NO	1.001	1.001	10.2	102	NO
9	1,2,3,7,8-PeCDF	7.28e5	1.69e6	1.55	1.57	NO	0.9074	29.54	29.54	NO	1.001	1.001	47.6	95.2	NO
10	1,2,3,4,7,8-PeCDF	7.44e5	1.58e6	1.55	1.55	NO	0.8516	30.54	30.53	NO	1.001	1.001	48.5	99.1	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.76e5	1.24	1.18	NO	0.9623	33.36	33.37	NO	1.000	1.000	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	5.96e5	1.25e6	1.24	1.17	NO	0.8414	33.49	33.50	NO	1.000	1.001	56.6	113	NO
13	1,2,3,4,6,7,8-HpCDF	5.39e5	1.07e6	1.24	1.22	NO	0.8962	34.29	34.06	NO	1.001	1.000	55.5	112	NO
14	1,2,3,7,8-HxCDF	2.95e5	6.39e5	1.24	1.22	NO	0.8972	34.94	34.95	NO	1.000	1.000	54.5	110	NO
15	1,2,3,4,6,7,8-HpCDF	3.72e5	8.00e5	1.04	1.00	NO	0.8511	36.77	36.68	NO	1.001	1.000	54.7	109	NO
16	1,2,3,4,7,8,9-HxCDF	2.68e5	5.31e5	1.04	1.03	NO	0.9799	38.75	38.75	NO	1.000	1.000	55.2	111	NO
17	OCDF	5.98e5	1.51e6	0.89	0.90	NO	0.8955	41.77	41.38	NO	1.000	1.000	96.8	96.6	NO
18	13C-2,3,7,8-TCDD	1.56e6	1.42e6	0.77	0.77	NO	1.1985	25.71	25.74	NO	1.026	1.027	51.8	51.8	NO
19	13C-1,2,3,7,8-PeCDD	1.17e6	1.42e6	0.63	0.62	NO	0.9667	30.84	30.83	NO	1.230	1.230	85.1	85.1	NO
20	13C-1,2,3,4,7,8-HxCDD	7.69e5	1.01e6	1.24	1.27	NO	0.8735	34.21	34.22	NO	1.014	1.014	87.5	87.4	NO
21	13C-1,2,3,6,7,8-HxCDD	1.01e6	1.01e6	1.24	1.25	NO	1.0458	34.32	34.32	NO	1.017	1.017	95.6	95.6	NO

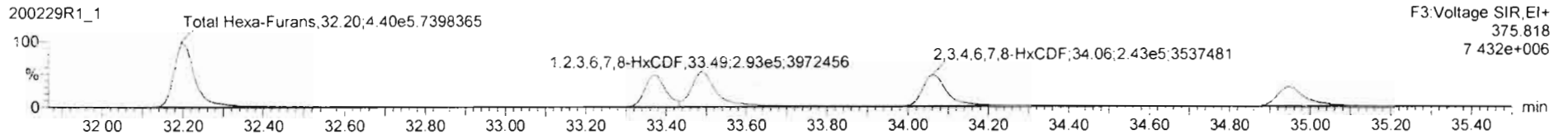
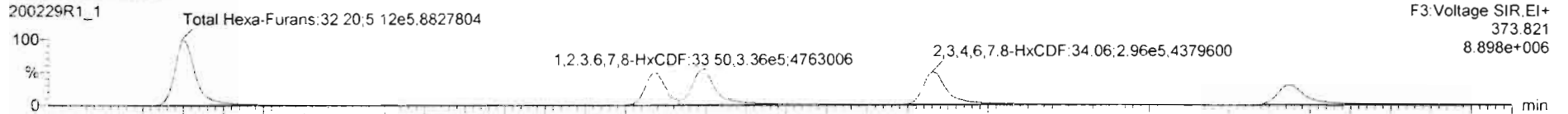


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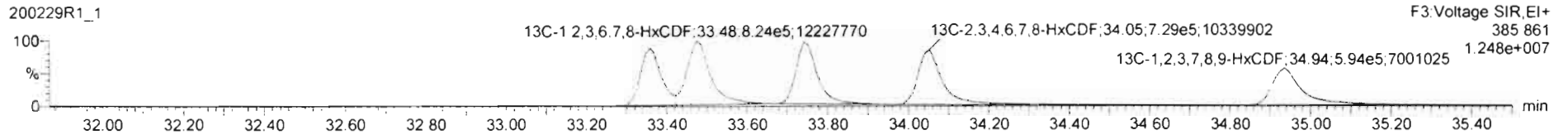
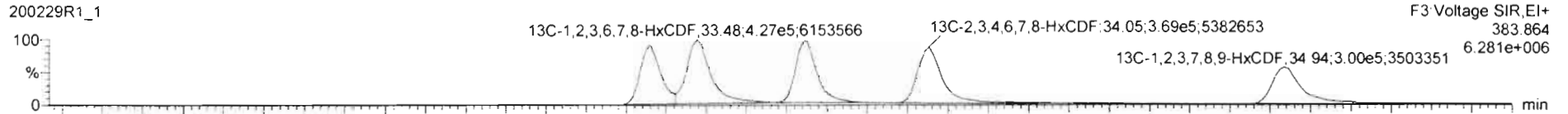
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Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

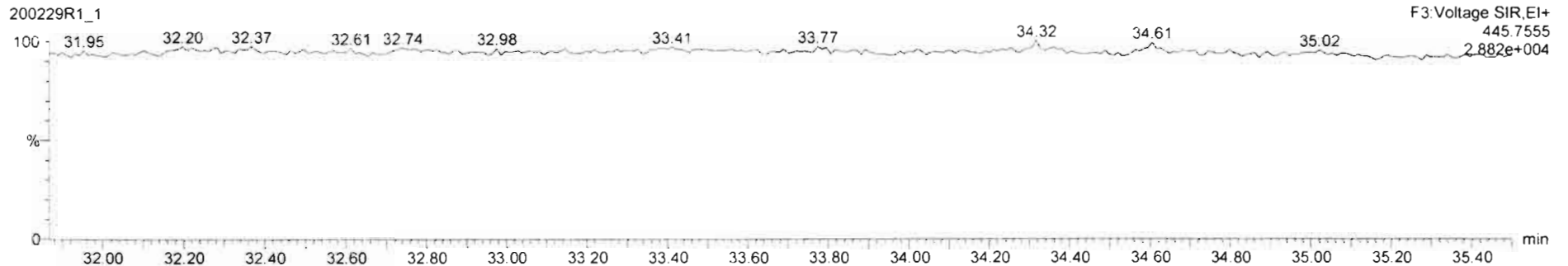
1,2,3,4,7,8-HxCDF

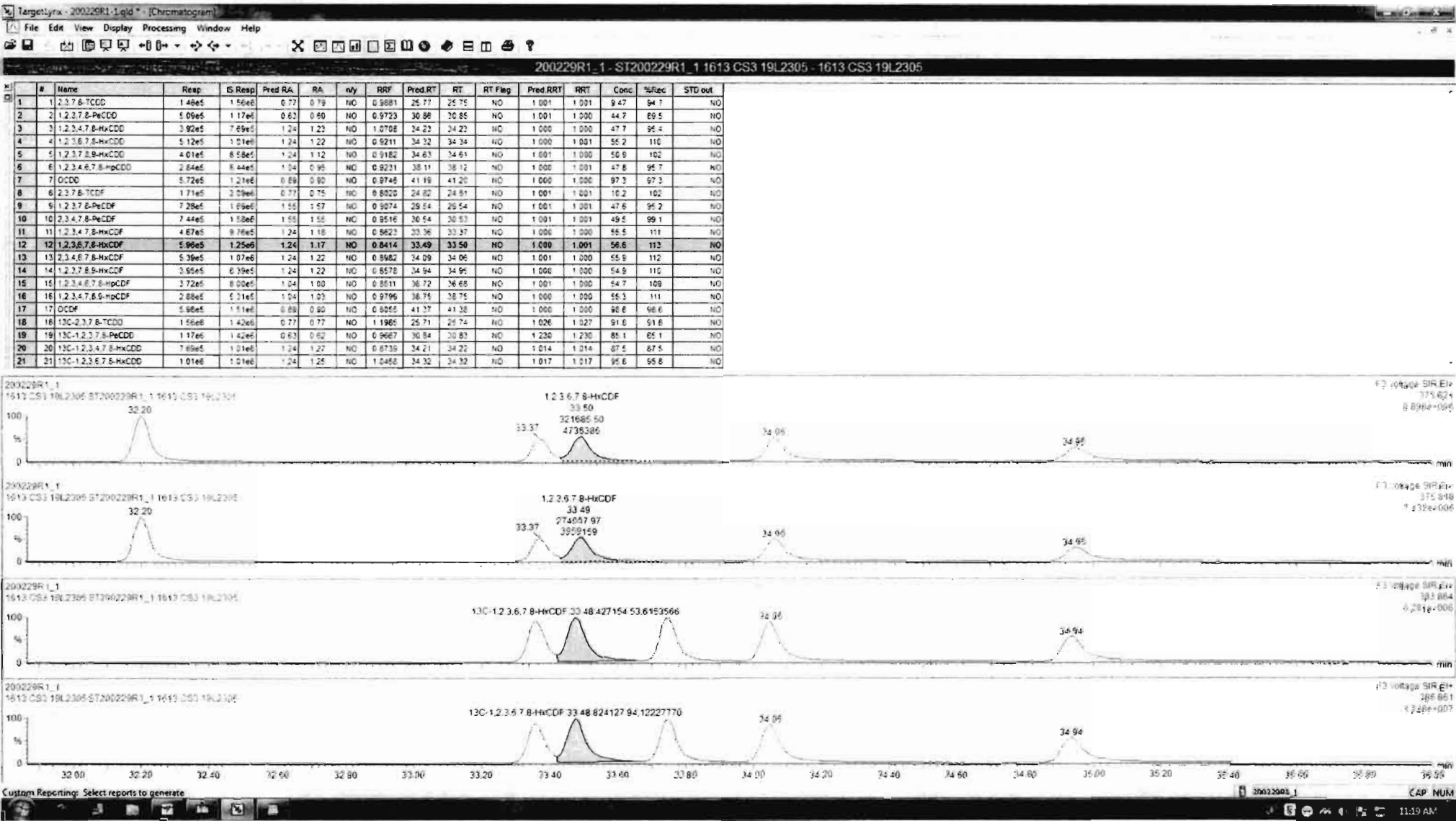


13C-1,2,3,4,7,8-HxCDF



DPE3



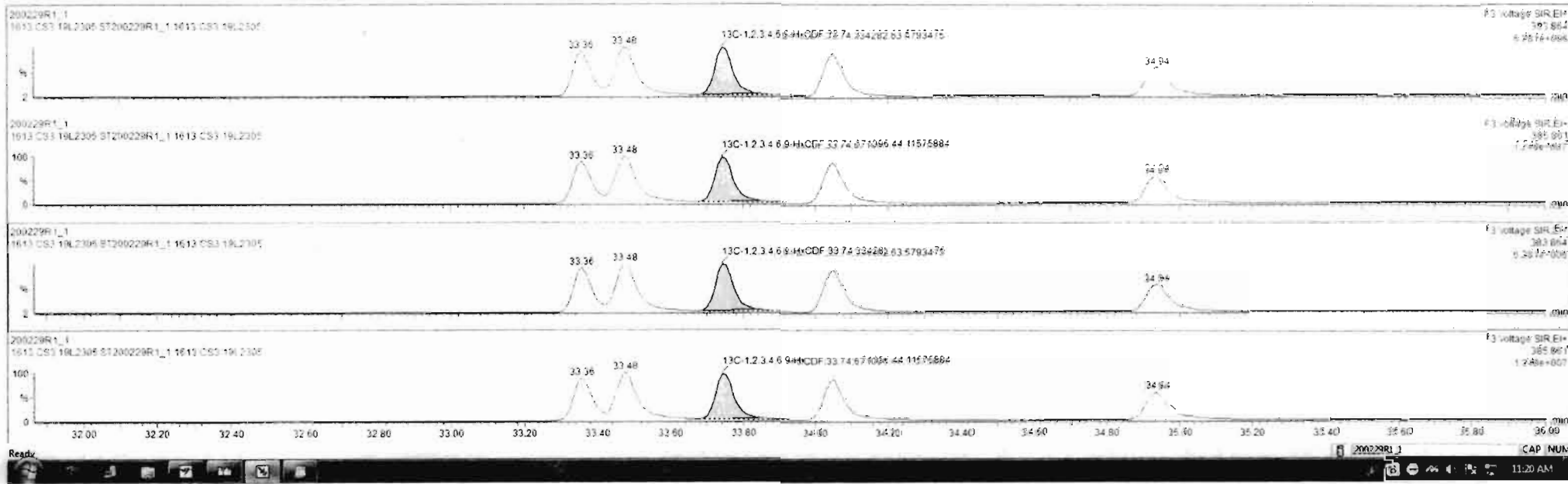


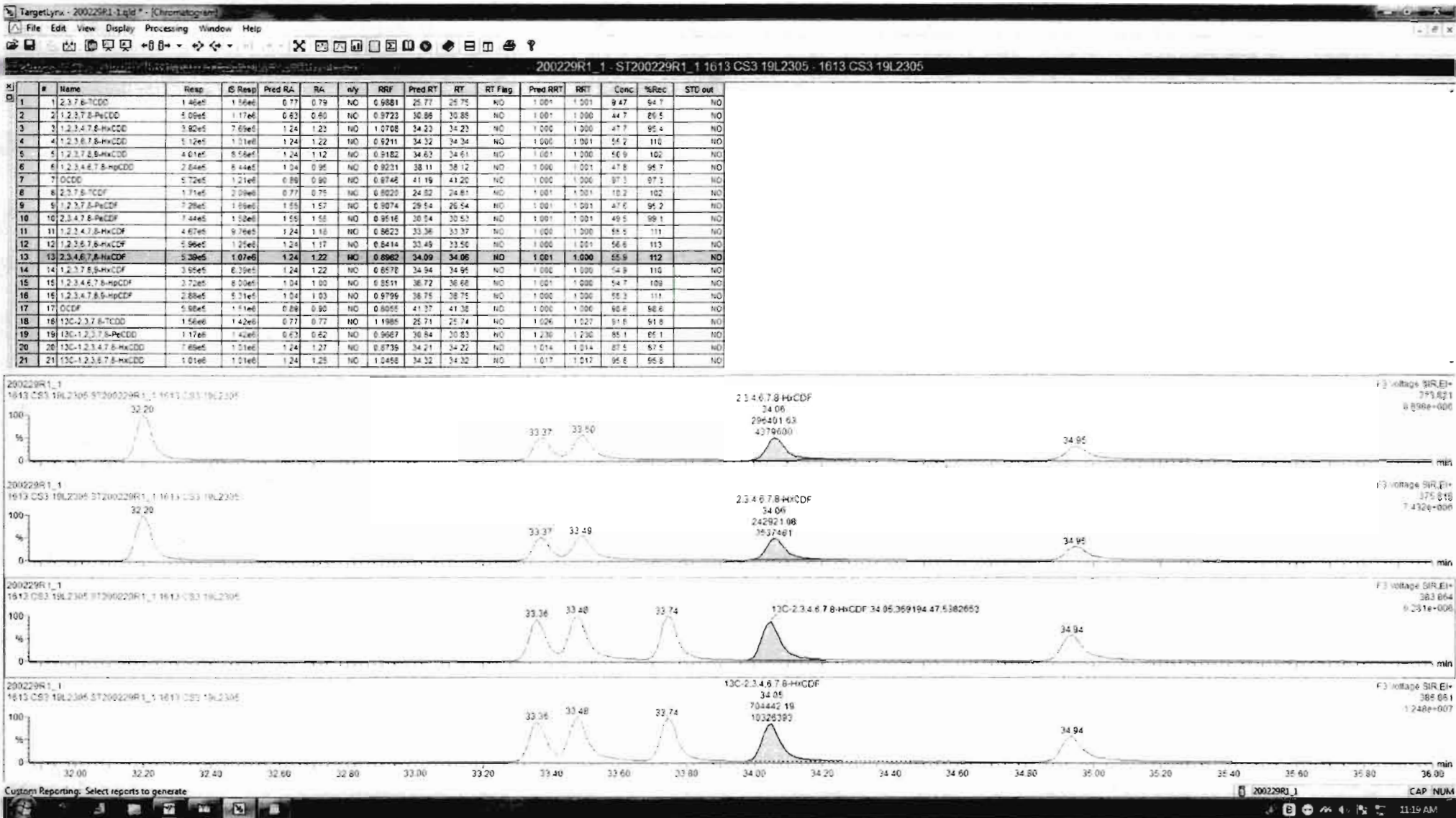
TargetLynx - 200229R1_1.qld - [Chromatogram]

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200229R1_1 - ST200229R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	S Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Cconc	%Rec	STD out
38	13C-1,2,3,4,6,9-HxCDF	1.01e6	1.01e6	0.51	0.50	ND	1.0000	33.71	33.74	NO	1.000	1.000	100	100	YES
39	39	Total Tetra-Dioxins	1.56e6				0.9821	24.62		NO	0.000		83.7		NO
40	40	Total Penta-Dioxins	1.17e6				0.9723	29.96		NO	0.000		197		NO
41	41	Total Hexa-Dioxins	0.05e6				0.9211	33.83		NO	0.000		256		NO
42	42	Total Hepta-Dioxins	8.44e5				0.9231	37.64		NO	0.000		135		NO
43	43	Total Tetra-Furans	2.29e6				0.9020	23.61		NO	0.000		51.4		NO
44	44	1st Func. Penta-Furans	0.05e6				0.9074	27.09		NO	0.000		154		NO
45	45	Total Penta-Furans	0.05e6				0.9074	29.27		NO	0.000		168		NO
46	46	Total Hexa-Furans	0.05e6				0.8962	33.56		NO	0.000		324		NO
47	47	Total Hepta-Furans	0.00e6				0.8511	37.82		NO	0.000		110		NO
48	48	PFK1													
49	49	PFK2													
50	50	PFK3													
51	51	PFK4													
52	52	PFK5													
53	53	DPE1													
54	54	DPE2													
55	55	DPE3													
56	56	DPE4													
57	57	DPE5													
58	58	DPE6													





Dataset: Untitled

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Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

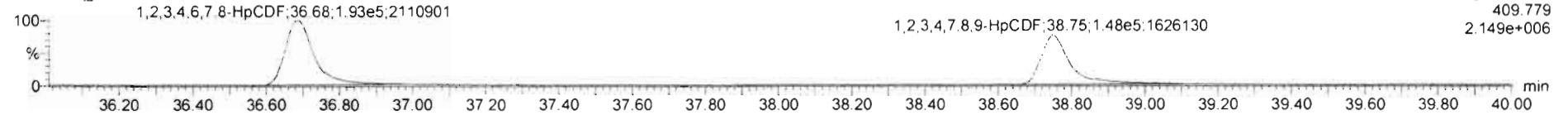
1,2,3,4,6,7,8-HpCDF

200229R1_1



F4: Voltage SIR, EI+
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2.175e+006

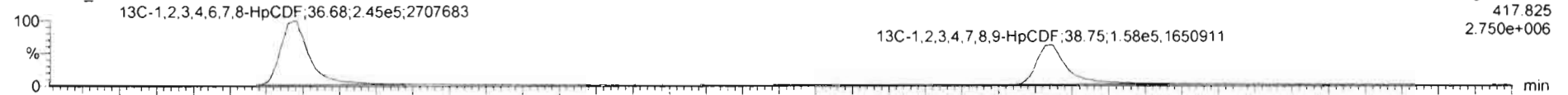
200229R1_1



F4: Voltage SIR, EI+
409.779
2.149e+006

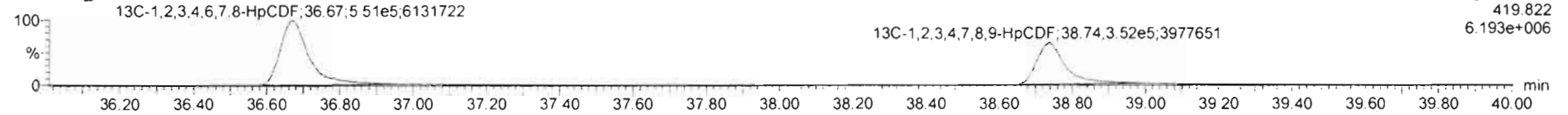
13C-1,2,3,4,6,7,8-HpCDF

200229R1_1



F4: Voltage SIR, EI+
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2.750e+006

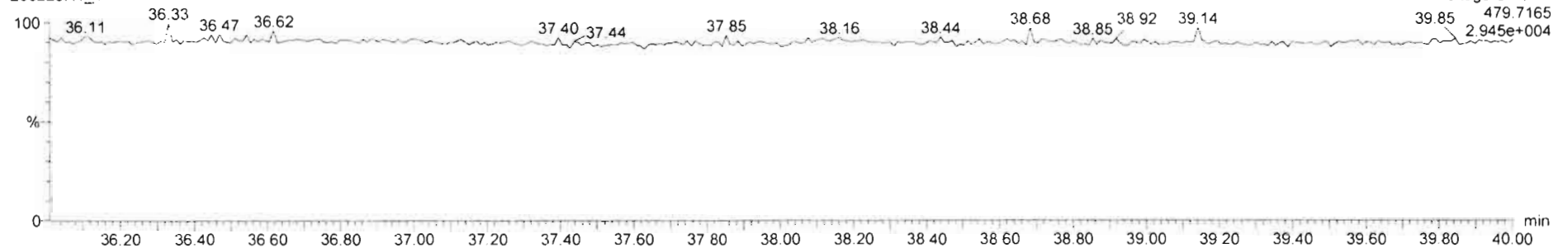
200229R1_1



F4: Voltage SIR, EI+
419.822
6.193e+006

DPE4

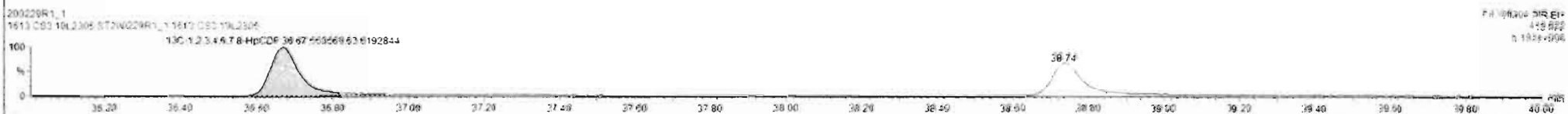
200229R1_1



F4: Voltage SIR, EI+
39.85 479.7165
2.945e+004

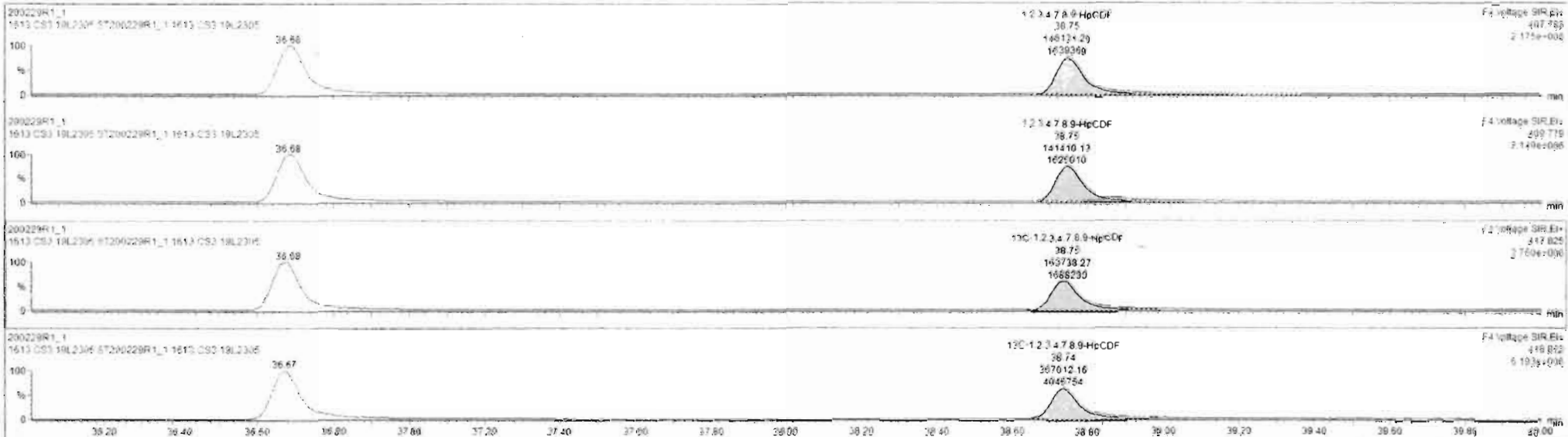
200229R1_1 - ST200229R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.48e5	1.55e5	0.77	0.79	NO	0.9881	25.77	25.75	NO	1.001	1.001	5.47	94.7	NO
2	1,2,3,7,8-PeCDD	5.09e5	1.17e6	0.63	0.60	NO	0.9723	30.88	30.85	NO	1.001	1.000	44.7	89.5	NO
3	1,2,3,4,7,8-HxCDD	3.92e5	7.65e5	1.24	1.23	NO	1.0708	34.23	34.23	NO	1.000	1.000	47.7	95.4	NO
4	1,2,3,6,7,8-HxCDD	5.12e5	1.01e6	1.24	1.22	NO	0.9211	34.32	34.34	NO	1.000	1.001	55.2	110	NO
5	1,2,3,7,8,9-HxCDD	4.01e5	8.58e5	1.24	1.12	NO	0.9182	34.63	34.61	NO	1.001	1.000	55.9	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.84e5	6.44e5	1.04	0.95	NO	0.9231	35.11	35.12	NO	1.000	1.001	47.8	95.7	NO
7	OCDD	5.72e5	1.21e6	0.89	0.90	NO	0.8748	41.19	41.20	NO	1.000	1.000	57.2	97.3	NO
8	1,2,3,7,8-TCDF	1.71e5	2.09e5	0.77	0.75	NO	0.8020	24.02	24.61	NO	1.001	1.001	10.2	102	NO
9	1,2,3,7,8-PeCDF	7.28e5	1.69e6	1.55	1.57	NO	0.9074	29.54	29.54	NO	1.001	1.001	47.5	95.2	NO
10	1,2,3,4,7,8-PeCDF	7.44e5	1.58e6	1.55	1.55	NO	0.9516	30.54	30.53	NO	1.001	1.001	49.5	99.1	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.78e5	1.24	1.18	NO	0.8623	33.36	33.37	NO	1.000	1.000	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	1.98e5	1.25e6	1.24	1.17	NO	0.8414	33.45	33.50	NO	1.000	1.001	56.6	112	NO
13	1,2,3,4,6,7,8-HxCDF	5.39e5	1.07e6	1.24	1.22	NO	0.8962	34.09	34.06	NO	1.001	1.000	55.9	112	NO
14	1,2,3,7,8,9-HxCDF	3.67e5	6.75e5	1.24	1.15	NO	0.8572	34.94	34.95	NO	1.000	1.000	53.7	107	NO
15	1,2,3,4,6,7,8-HpCDF	3.72e5	8.00e5	1.04	1.00	NO	0.8511	36.72	36.68	NO	1.001	1.000	54.7	109	NO
16	1,2,3,4,7,8,9-HpCDF	2.88e5	5.31e5	1.04	1.03	NO	0.9799	35.75	35.75	NO	1.000	1.000	55.3	111	NO
17	OCDF	5.98e5	1.51e6	0.89	0.90	NO	0.8955	41.77	41.38	NO	1.000	1.000	60.8	96.6	NO
18	1,2,3,7,8-TCDF	1.56e6	1.42e6	0.77	0.72	NO	1.1885	25.71	25.74	NO	1.026	1.027	51.6	91.6	NO
19	1,2,3,7,8-PeCDD	1.17e6	1.42e6	0.63	0.62	NO	0.9667	30.54	30.83	NO	1.230	1.230	85.1	65.1	NO
20	1,2,3,4,7,8-HxCDD	7.69e5	1.01e6	1.24	1.27	NO	0.8739	34.21	34.22	NO	1.014	1.014	87.5	87.5	NO
21	1,2,3,4,6,7,8-HpCDD	1.01e6	1.01e6	1.24	1.25	NO	1.0458	34.32	34.32	NO	1.017	1.017	95.8	95.8	NO



200229R1-1-ST200229R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

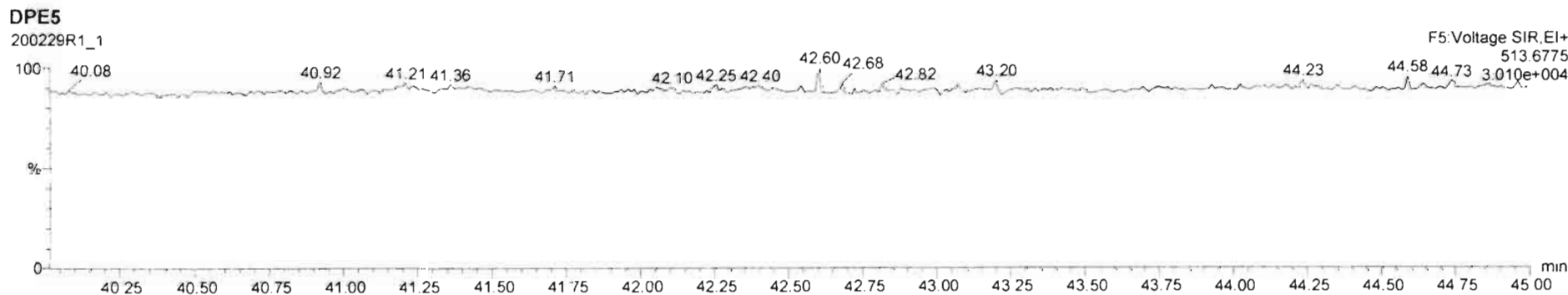
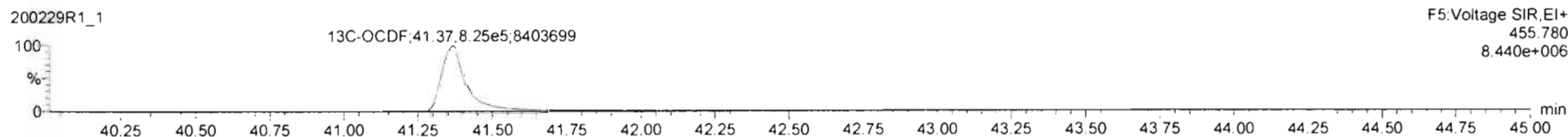
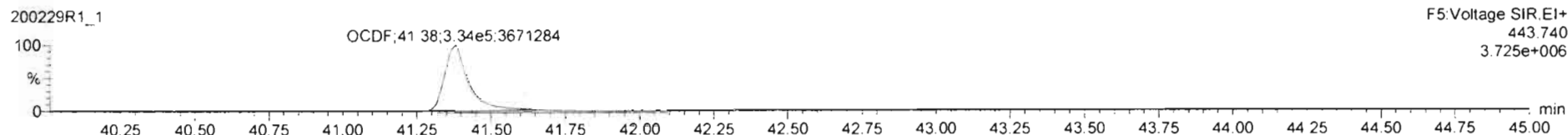
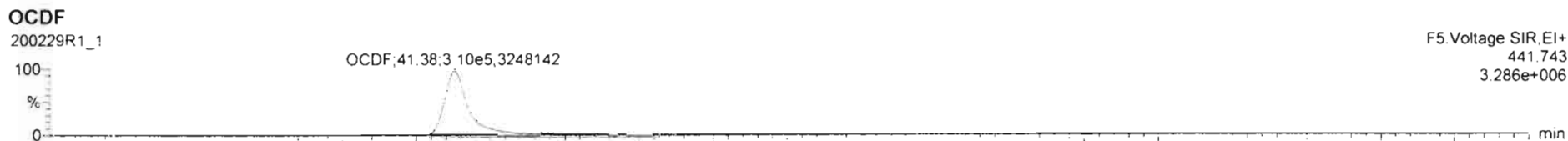
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1	1,2,3,7,8-TCDD	1.46e5	1.56e5	0.77	0.79	NO	0.9881	25.77	25.75	NO	1.001	1.001	5.47	94.7	NO
2	1,2,3,7,8-PeCDD	5.09e5	1.17e6	0.63	0.60	NO	0.9723	30.86	30.85	NO	1.001	1.000	44.7	69.5	NO
3	1,2,3,4,7,8-HxCDD	3.92e5	7.65e5	1.24	1.23	NO	1.0708	34.23	34.23	NO	1.000	1.000	47.7	95.4	NO
4	1,2,3,6,7,8-HxCDD	5.12e5	1.01e6	1.24	1.22	NO	0.9211	34.32	34.34	NO	1.000	1.001	55.2	115	NO
5	1,2,3,7,8,9-HxCDD	4.01e5	8.58e5	1.24	1.12	NO	0.9182	34.63	34.61	NO	1.001	1.000	50.9	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.64e5	6.44e5	1.04	0.95	NO	0.9221	38.11	38.12	NO	1.000	1.001	47.6	95.7	NO
7	OCDD	5.72e5	1.21e6	0.89	0.80	NO	0.9748	41.19	41.20	NO	1.000	1.000	97.3	97.3	NO
8	1,2,3,7,8-TCDF	1.71e5	2.39e5	0.77	0.75	NO	0.9020	24.62	24.61	NO	1.001	1.001	10.2	102	NO
9	1,2,3,7,8-PeCDF	7.28e5	1.69e6	1.55	1.57	NO	0.9074	29.54	29.54	NO	1.001	1.001	47.6	95.2	NO
10	1,2,3,4,7,8-HxCDF	7.44e5	1.58e6	1.55	1.55	NO	0.9516	30.54	30.53	NO	1.001	1.001	49.5	99.1	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.76e5	1.24	1.16	NO	0.9623	33.36	33.37	NO	1.000	1.000	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	5.96e5	1.25e6	1.24	1.17	NO	0.9414	33.49	33.50	NO	1.000	1.001	56.6	113	NO
13	1,2,3,4,6,7,8-HpCDF	5.39e5	1.07e6	1.24	1.22	NO	0.9962	34.09	34.09	NO	1.001	1.000	55.9	112	NO
14	1,2,3,7,8,9-HxCDF	3.87e5	8.39e5	1.24	1.10	NO	0.9578	34.54	34.95	NO	1.000	1.000	52.7	107	NO
15	1,2,3,4,6,7,8-HpCDF	3.72e5	8.00e5	1.04	1.00	NO	0.9511	36.72	36.68	NO	1.001	1.000	54.7	105	NO
16	1,2,3,4,7,8,9-HpCDF	2.68e5	5.31e5	1.04	1.03	NO	0.9799	36.75	36.75	NO	1.000	1.000	55.3	111	NO
17	OCDF	5.96e5	1.51e6	0.89	0.80	NO	0.9055	41.27	41.28	NO	1.000	1.000	96.8	96.8	NO
18	1,2,3,7,8,9-HxCDF	1.56e6	1.42e6	0.77	0.77	NO	1.1965	25.71	25.74	NO	1.008	1.021	31.6	91.8	NO
19	1,2,3,4,7,8,9-HpCDD	1.17e5	1.42e5	0.63	0.62	NO	0.9667	30.84	30.83	NO	1.230	1.230	85.1	85.1	NO
20	1,2,3,4,7,8,9-HpCDD	7.69e5	1.01e6	1.24	1.27	NO	0.8739	34.21	34.22	NO	1.014	1.014	87.5	87.5	NO
21	1,2,3,4,7,8,9-HpCDD	1.01e6	1.01e6	1.24	1.25	NO	1.0458	34.32	34.33	NO	1.017	1.017	95.8	95.8	NO



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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time
Printed: Monday, March 02, 2020 09:33:05 Pacific Standard Time

Name: 200229R1_1, Date: 29-Feb-2020, Time: 11:10:57, ID: ST200229R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



TargetLynx - 200229R1_1.qld - [Chromatogram]

File Edit View Display Processing Window Help

200229R1_1 - ST200229R1_1 1613 CS3 19L2305 - 1613 CS3 19L2305

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1	1,2,3,7,8-TCDD	1.40e5	1.56e5	0.77	0.73	NO	0.9381	25.77	25.75	NO	1.001	1.001	5.47	54.7	NO
2	1,2,3,7,8-PeCDD	5.09e5	1.17e6	0.63	0.60	NO	0.9723	30.86	30.85	NO	1.001	1.000	44.7	69.5	NO
3	1,2,3,4,7,8-HxCDD	3.92e5	7.69e5	1.24	1.23	NO	1.0708	34.23	34.23	NO	1.000	1.000	47.7	95.4	NO
4	1,2,3,6,7,8-HxCDD	5.12e5	1.01e6	1.24	1.22	NO	0.9211	34.32	34.34	NO	1.000	1.001	55.2	110	NO
5	1,2,3,7,8-HxCDD	4.01e5	6.58e5	1.24	1.12	NO	0.9162	34.63	34.61	NO	1.001	1.000	56.9	102	NO
6	1,2,3,4,7,8-HpCDD	2.64e5	6.44e5	1.04	0.95	NO	0.9211	38.11	38.12	NO	1.006	1.001	47.6	95.7	NO
7	OCDF	5.72e5	1.21e6	0.89	0.90	NO	0.9748	41.19	41.20	NO	1.000	1.000	97.3	97.2	NO
8	1,2,3,7,8-TCDF	1.71e5	2.09e5	0.77	0.75	NO	0.9020	24.82	24.81	NO	1.001	1.001	10.2	102	NO
9	1,2,3,7,8-PeCDF	7.28e5	1.65e6	1.55	1.57	NO	0.9074	29.54	29.54	NO	1.001	1.001	47.6	95.2	NO
10	1,2,3,4,7,8-PeCDF	7.44e5	1.58e6	1.55	1.55	NO	0.9516	30.54	30.53	NO	1.001	1.001	49.5	99.1	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.76e5	1.24	1.18	NO	0.9823	33.36	33.37	NO	1.000	1.000	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	5.96e5	1.25e6	1.24	1.17	NO	0.9414	33.49	33.50	NO	1.000	1.001	56.6	112	NO
13	1,2,3,6,7,8-HxCDF	5.39e5	1.07e6	1.24	1.22	NO	0.9962	34.59	34.56	NO	1.001	1.000	55.9	112	NO
14	1,2,3,7,8-HxCDF	3.87e5	6.39e5	1.24	1.18	NO	0.9578	34.94	34.95	NO	1.000	1.000	53.7	107	NO
15	1,2,3,4,6,7,8-HpCDF	3.72e5	6.05e5	1.04	1.00	NO	0.9511	36.72	36.66	NO	1.001	1.000	54.7	109	NO
16	1,2,3,4,7,8-HpCDF	2.68e5	5.21e5	1.04	1.03	NO	0.9799	36.75	36.75	NO	1.000	1.000	55.3	111	NO
17	OCDF	5.96e5	1.51e6	0.89	0.90	NO	0.6065	41.37	41.36	NO	1.000	1.000	98.6	96.6	NO
18	13C-1,2,3,7,8-TCDD	1.50e6	1.42e6	0.77	0.77	NO	1.1985	25.71	25.74	NO	1.026	1.027	91.8	91.8	NO
19	13C-1,2,3,7,8-PeCDD	1.17e6	1.42e6	0.63	0.62	NO	0.9667	30.84	30.82	NO	1.230	1.230	85.1	85.1	NO
20	13C-1,2,3,4,7,8-HxCDD	7.69e5	1.01e6	1.24	1.27	NO	0.8739	34.21	34.22	NO	1.014	1.014	87.5	87.5	NO
21	13C-1,2,3,6,7,8-HxCDD	1.01e6	1.21e6	1.24	1.25	NO	1.0456	34.32	34.32	NO	1.017	1.017	95.6	95.6	NO

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FS Voltage SIR.EI+
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OCDF 41.36 314837.38 3636647
FS Voltage SIR.EI+
433.746
3.725e+006

200229R1_1
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13C-OCDF 41.37 706538.50 7460144
FS Voltage SIR.EI+
453.7831
3.460e+006

200229R1_1
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FS Voltage SIR.EI+
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Custom Reporting: Select reports to generate

200229R1_1 CAP NUM

11:19 AM

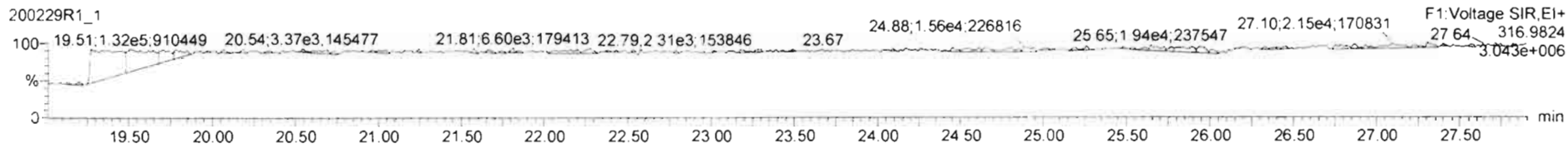
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Last Altered: Monday, March 02, 2020 09:32:34 Pacific Standard Time

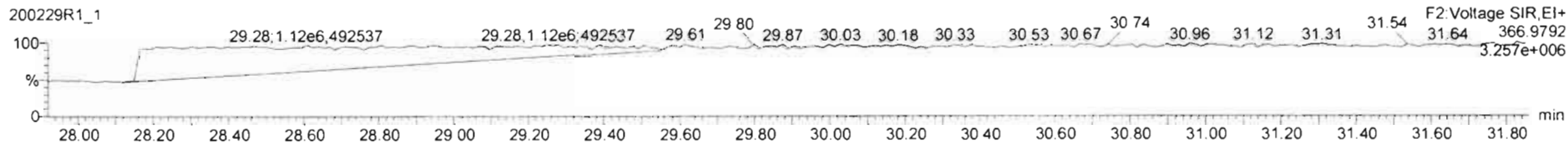
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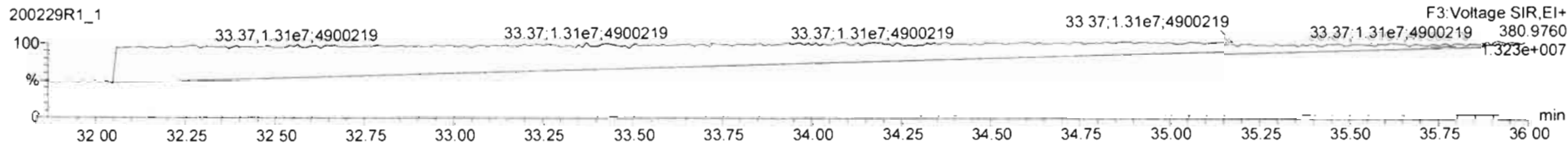
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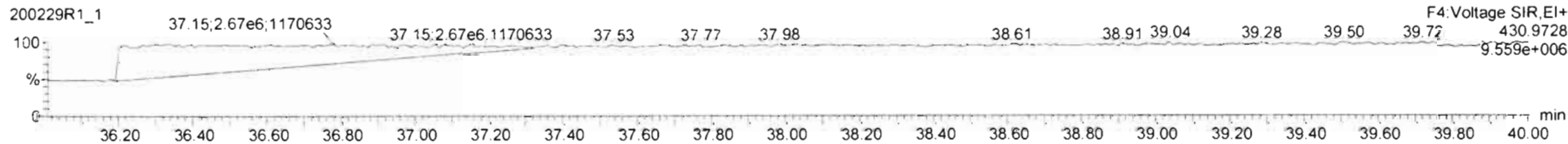
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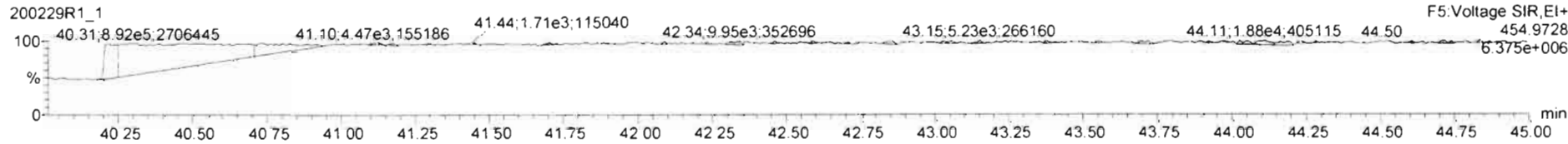
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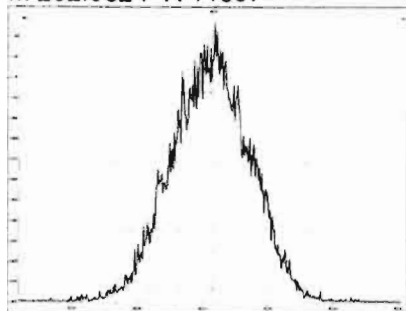


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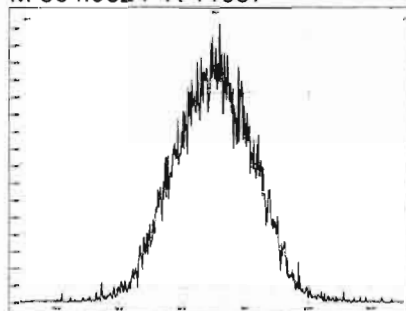


Printed: Saturday, February 29, 2020 23:14:43 Pacific Standard Time

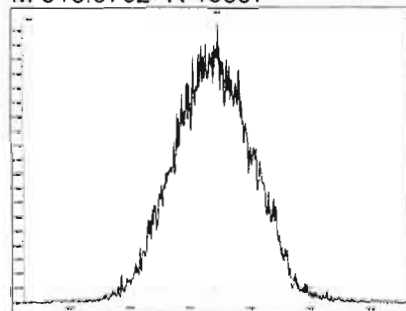
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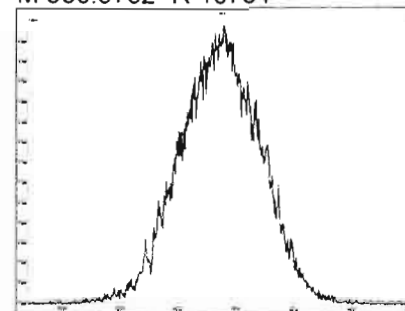
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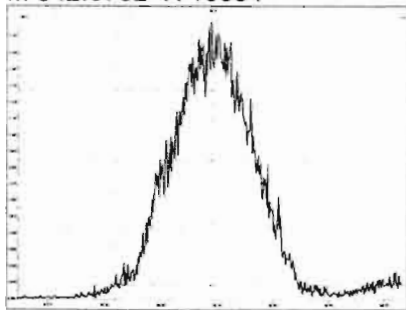
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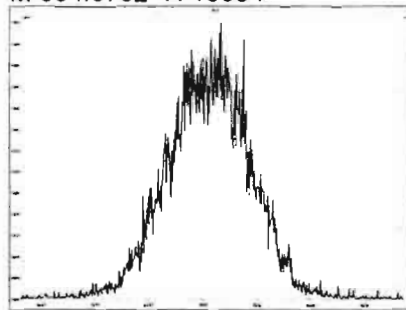
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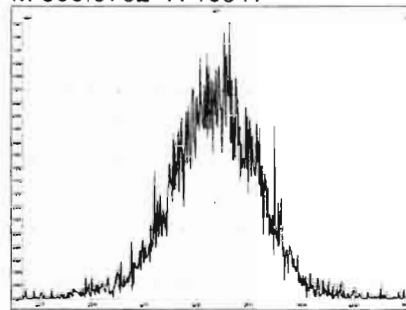
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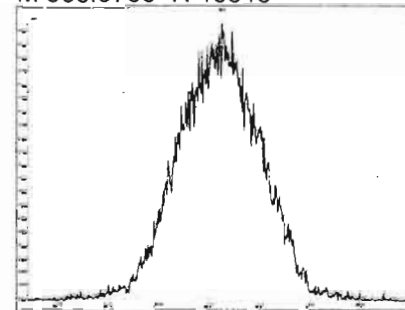
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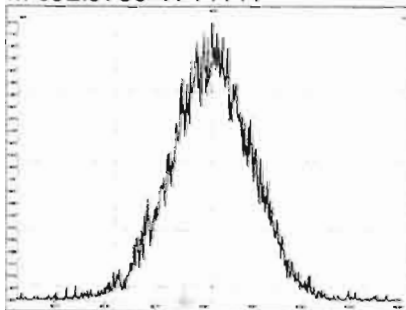
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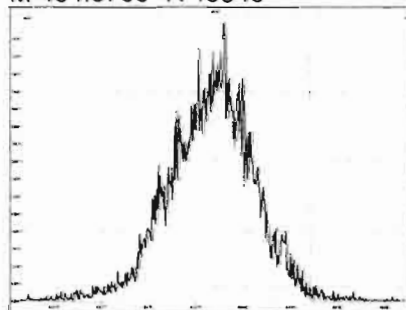
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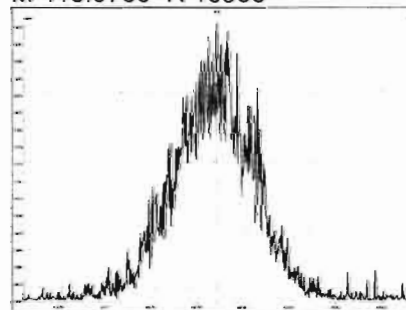
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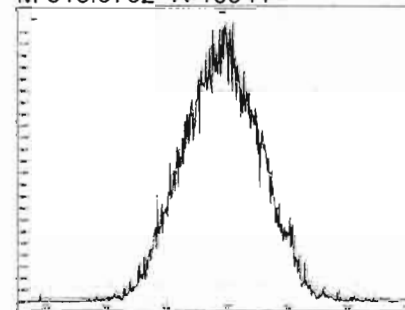
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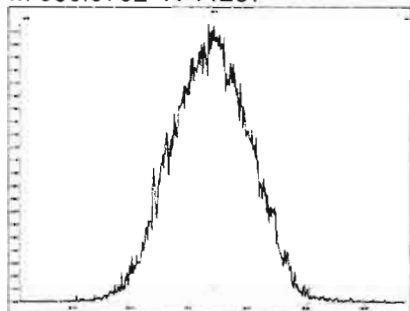


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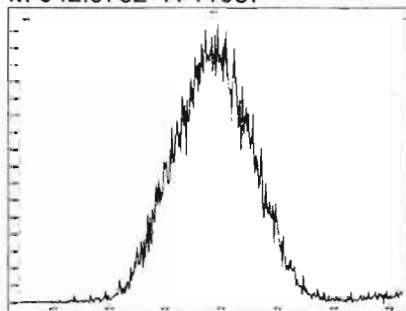


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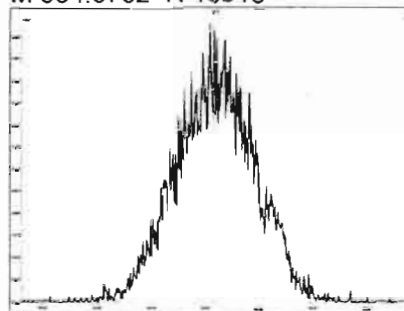
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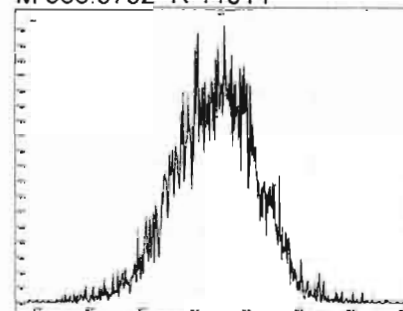
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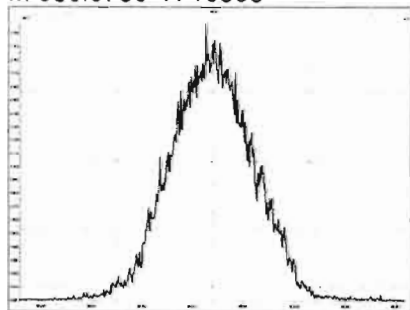
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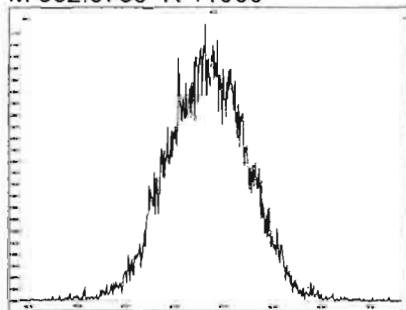
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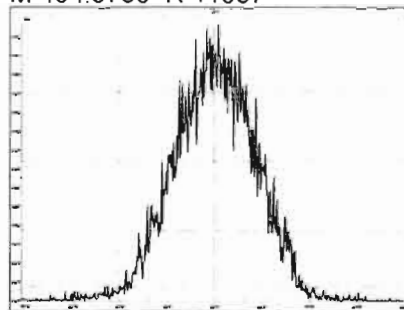
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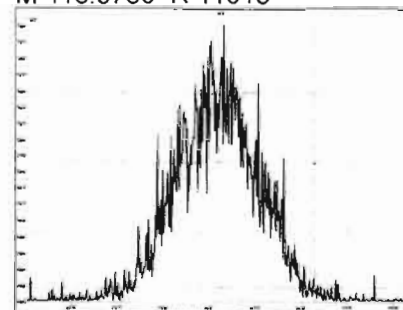
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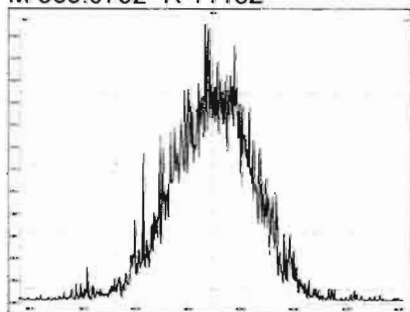
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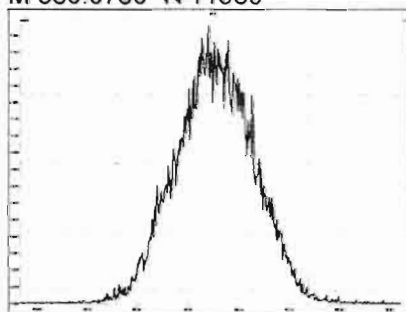
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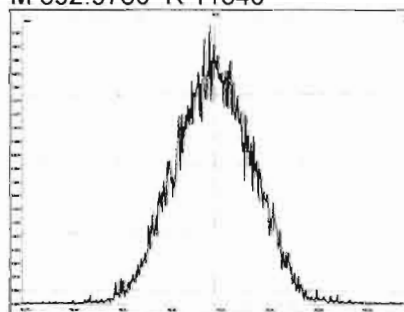
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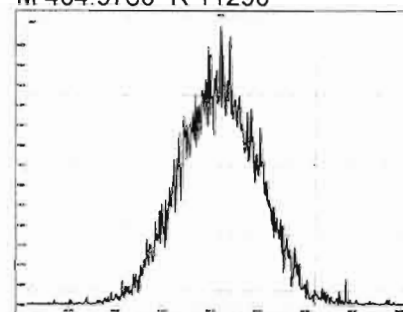
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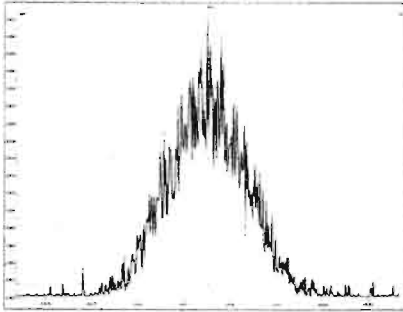


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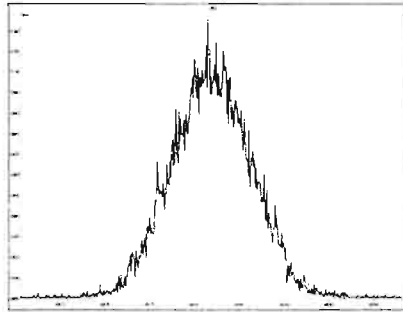


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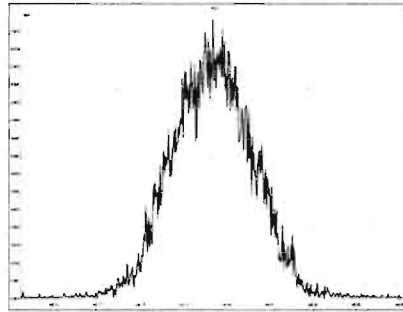
M 416.9760 R 11114



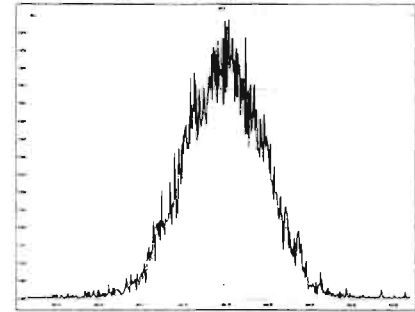
M 430.9728 R 10849



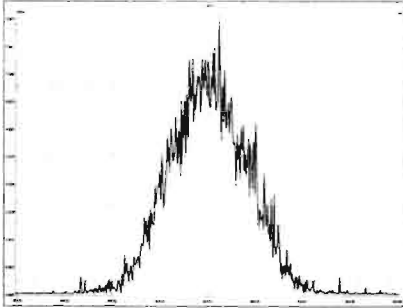
M 442.9728 R 11709



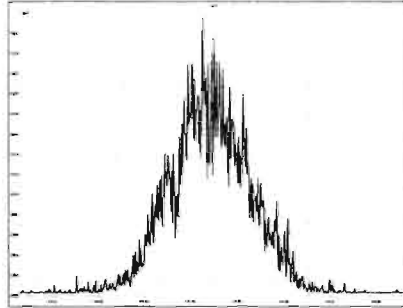
M 454.9728 R 10946



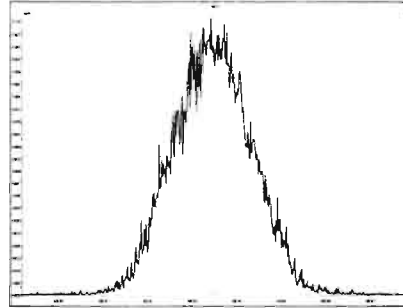
M 404.9760 R 11112



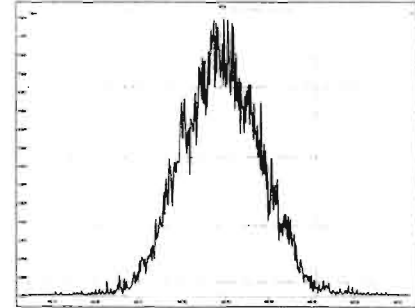
M 416.9760 R 10778



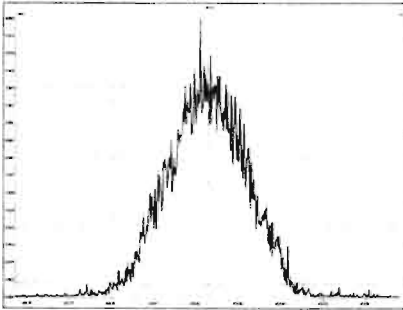
M 430.9728 R 11037



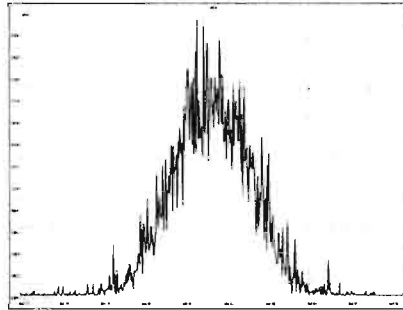
M 442.9728 R 10775



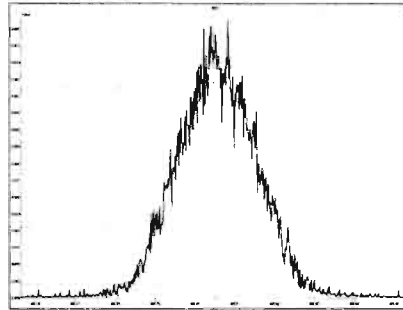
M 454.9728 R 11138



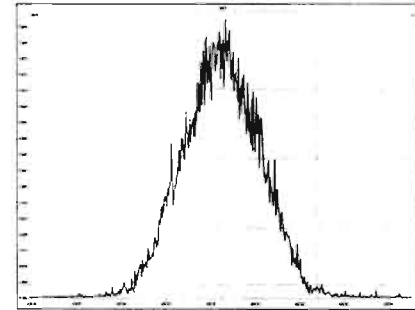
M 466.9728 R 11633



M 480.9696 R 11363

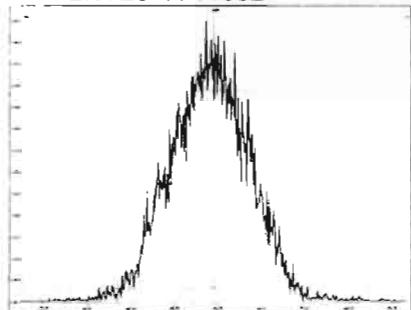


M 430.9728 R 11723

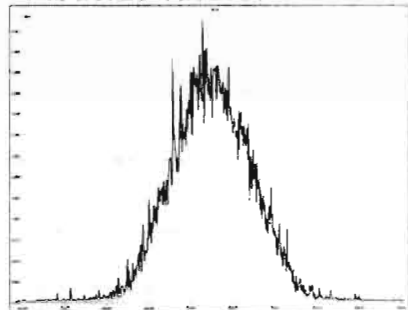


Printed: Saturday, February 29, 2020 23:14:43 Pacific Standard Time

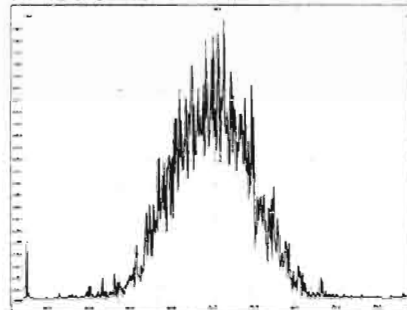
M 442.9728 R 11052



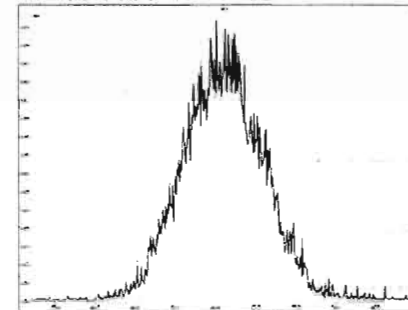
M 454.9728 R 11444



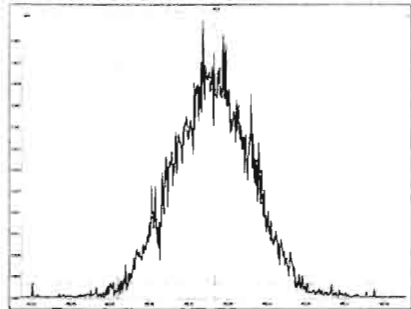
M 466.9728 R 11221



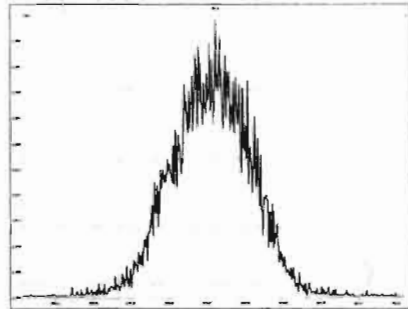
M 480.9696 R 11266



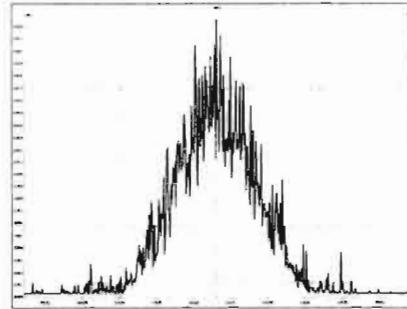
M 492.9696 R 11075



M 504.9696 R 11293



M 516.9697 R 11682



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200229R2-1

Reviewed By: C1 03/02/2020
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>GRB</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?

GC Break <20%

8280 CS1 End Standard:

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

Comments:

Dataset: U:\VG12.PRO\Results\200229R2\200229R2-3.qld

Last Altered: Monday, March 02, 2020 09:51:33 Pacific Standard Time

Printed: Monday, March 02, 2020 11:31:15 Pacific Standard Time

GRB 03/02/2020

C1 03/02/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09

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

Name: 200229R2_3, Date: 01-Mar-2020, Time: 00:48:26, ID: ST200229R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.63e5	1.77e6	0.78	NO	0.988	25.75	25.75	NO	1.001	1.001	9.3384	93.4	NO
2	2 1,2,3,7,8-PeCDD	5.56e5	1.31e6	0.62	NO	0.972	30.86	30.85	NO	1.001	1.000	43.521	87.0	NO
3	3 1,2,3,4,7,8-HxCDD	4.65e5	9.03e5	1.23	NO	1.07	34.22	34.22	NO	1.000	1.000	48.099	96.2	NO
4	4 1,2,3,6,7,8-HxCDD	5.39e5	1.19e6	1.23	NO	0.921	34.32	34.33	NO	1.000	1.000	49.399	98.8	NO
5	5 1,2,3,7,8,9-HxCDD	4.58e5	1.03e6	1.25	NO	0.918	34.62	34.60	NO	1.001	1.001	48.214	96.4	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.63e5	7.87e5	1.02	NO	0.923	38.10	38.11	NO	1.000	1.001	50.048	100	NO
7	7 OCDD	7.15e5	1.50e6	0.87	NO	0.975	41.21	41.22	NO	1.000	1.000	98.086	98.1	NO
8	8 2,3,7,8-TCDF	1.85e5	2.24e6	0.75	NO	0.802	24.80	24.81	NO	1.001	1.001	10.319	103	NO
9	9 1,2,3,7,8-PeCDF	8.08e5	1.79e6	1.54	NO	0.907	29.54	29.54	NO	1.001	1.000	49.661	99.3	NO
10	10 2,3,4,7,8-PeCDF	8.19e5	1.74e6	1.54	NO	0.952	30.55	30.53	NO	1.001	1.000	49.390	98.8	NO
11	11 1,2,3,4,7,8-HxCDF	5.62e5	1.17e6	1.25	NO	0.862	33.35	33.37	NO	1.000	1.001	55.683	111	NO
12	12 1,2,3,6,7,8-HxCDF	6.65e5	1.39e6	1.19	NO	0.841	33.49	33.49	NO	1.000	1.000	56.984	114	NO
13	13 2,3,4,6,7,8-HxCDF	6.05e5	1.26e6	1.20	NO	0.898	34.07	34.05	NO	1.001	1.000	53.633	107	NO
14	14 1,2,3,7,8,9-HxCDF	4.66e5	1.02e6	1.19	NO	0.858	34.92	34.95	NO	1.000	1.001	53.052	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.44e5	9.60e5	0.99	NO	0.851	36.71	36.68	NO	1.001	1.000	54.422	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.53e5	6.31e5	0.99	NO	0.980	38.74	38.75	NO	1.000	1.000	57.019	114	NO
17	17 OCDF	7.48e5	1.72e6	0.89	NO	0.806	41.39	41.40	NO	1.000	1.000	108.22	108	NO
18	18 13C-2,3,7,8-TCDD	1.77e6	1.50e6	0.78	NO	1.20	25.71	25.72	NO	1.026	1.026	98.240	98.2	NO
19	19 13C-1,2,3,7,8-PeCDD	1.31e6	1.50e6	0.63	NO	0.967	30.84	30.83	NO	1.230	1.230	90.494	90.5	NO
20	20 13C-1,2,3,4,7,8-HxCDD	9.03e5	1.20e6	1.28	NO	0.874	34.22	34.21	NO	1.014	1.014	86.037	86.0	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.19e6	1.20e6	1.25	NO	1.05	34.32	34.32	NO	1.017	1.017	94.379	94.4	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.03e6	1.20e6	1.26	NO	0.974	34.62	34.58	NO	1.026	1.025	88.414	88.4	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.87e5	1.20e6	1.03	NO	0.747	38.20	38.09	NO	1.132	1.129	87.671	87.7	NO
24	24 13C-OCDD	1.50e6	1.20e6	0.90	NO	0.707	41.10	41.21	NO	1.218	1.221	176.42	88.2	NO
25	25 13C-2,3,7,8-TCDF	2.24e6	2.09e6	0.78	NO	1.07	24.89	24.78	NO	0.993	0.989	100.60	101	NO
26	26 13C-1,2,3,7,8-PeCDF	1.79e6	2.09e6	1.58	NO	1.00	29.47	29.52	NO	1.176	1.178	85.742	85.7	NO
27	27 13C-2,3,4,7,8-PeCDF	1.74e6	2.09e6	1.60	NO	0.962	30.44	30.51	NO	1.215	1.218	86.835	86.8	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.17e6	1.20e6	0.51	NO	1.05	33.34	33.35	NO	0.988	0.988	92.980	93.0	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.39e6	1.20e6	0.52	NO	1.19	33.44	33.48	NO	0.991	0.992	97.121	97.1	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.26e6	1.20e6	0.52	NO	1.07	34.05	34.04	NO	1.009	1.009	98.132	98.1	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.02e6	1.20e6	0.52	NO	0.922	34.96	34.92	NO	1.036	1.035	92.422	92.4	NO

Dataset: U:\VG12.PRO\Results\200229R2\200229R2-3.qld

Last Altered: Monday, March 02, 2020 09:51:33 Pacific Standard Time

Printed: Monday, March 02, 2020 11:31:15 Pacific Standard Time

Name: 200229R2_3, Date: 01-Mar-2020, Time: 00:48:26, ID: ST200229R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.60e5	1.20e6	0.44	NO	0.767	36.71	36.67	NO	1.088	1.087	104.19	104	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.31e5	1.20e6	0.44	NO	0.552	38.74	38.74	NO	1.148	1.148	95.169	95.2	NO
34	34 13C-OCDF	1.72e6	1.20e6	0.88	NO	0.789	41.33	41.39	NO	1.225	1.227	181.03	90.5	NO
35	35 37Cl-2,3,7,8-TCDD	1.65e5	1.50e6			1.18	25.74	25.75	NO	1.027	1.028	9.3235	93.2	NO
36	36 13C-1,2,3,4-TCDD	1.50e6	1.50e6	0.79	NO	1.00	25.11	25.06	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.09e6	2.09e6	0.79	NO	1.00	23.37	23.28	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.20e6	1.20e6	0.51	NO	1.00	33.71	33.74	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		1.77e6			0.988	24.62		NO	0.000		79.922		NO
40	40 Total Penta-Dioxins		1.31e6			0.972	29.96		NO	0.000		195.09		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		244.40		NO
42	42 Total Hepta-Dioxins		7.87e5			0.923	37.64		NO	0.000		136.62		NO
43	43 Total Tetra-Furans		2.24e6			0.802	23.61		NO	0.000		49.776		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000		99.946		NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		170.53		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		312.96		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		111.69		NO

Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:54:03 Pacific Standard Time
Printed: Monday, March 02, 2020 09:54:31 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 27 Feb 2020 10:59:03
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200229R2_3, Date: 01-Mar-2020, Time: 00:48:26, ID: ST200229R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.59
2	2 1,2,8,9-TCDD (Last)	26.74
3	3 1,2,4,7,9-PeCDD (First)	28.59
4	4 1,2,3,8,9-PeCDD (Last)	31.23
5	5 1,2,4,6,7,9-HxCDD (First)	32.75
6	6 1,2,3,7,8,9-HxCDD (Last)	34.60
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.07
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.11
9	9 1,3,6,8-TCDF (First)	19.54
10	10 1,2,8,9-TCDF (Last)	26.89
11	11 1,3,4,6,8-PeCDF (First)	26.87
12	12 1,2,3,8,9-PeCDF (Last)	31.48
13	13 1,2,3,4,6,8-HxCDF (First)	32.20
14	14 1,2,3,7,8,9-HxCDF (Last)	34.95
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.68
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.75

Dataset: Untitled

Last Altered: Monday, March 02, 2020 10:48:28 Pacific Standard Time
Printed: Monday, March 02, 2020 10:49:47 Pacific Standard Time

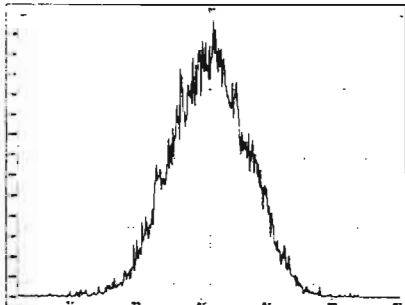
Method: U:\VG12.PRO\MethDB\1613rrt-02-26-20.mdb 26 Feb 2020 10:14:09
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: OCDD

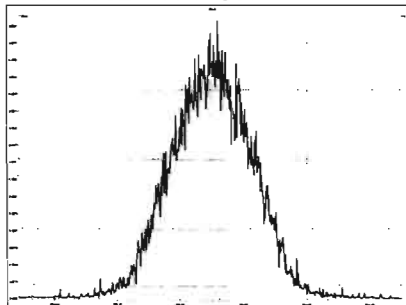
	Name	ID	Acq.Date	Acq.Time
1	200229R2_1	SOLVENT BLANK	29-Feb-20	23:14:45
2	200229R2_2	SOLVENT BLANK	01-Mar-20	00:01:00
3	200229R2_3	ST200229R2_1 1613 CS3 19L2305	01-Mar-20	00:48:26
4	200229R2_4	SOLVENT BLANK	01-Mar-20	01:35:56
5	200229R2_5	SOLVENT BLANK	01-Mar-20	02:23:21
6	200229R2_6	B0B0177-BS1 OPR 1	01-Mar-20	03:10:47
7	200229R2_7	SOLVENT BLANK	01-Mar-20	03:58:13
8	200229R2_8	1903737-11RE1 PDI-055SC-B-04-06-191015 ...	01-Mar-20	04:45:37
9	200229R2_9	1903737-12RE1 PDI-055SC-B-06-08-191015 ...	01-Mar-20	05:33:03
10	200229R2_10	SOLVENT BLANK	01-Mar-20	06:29:20

Printed: Saturday, February 29, 2020 23:14:43 Pacific Standard Time

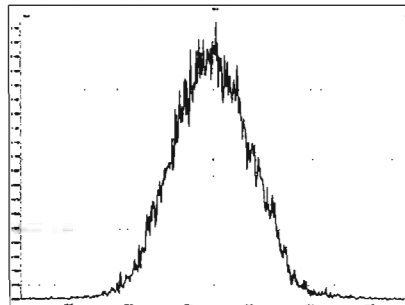
M 292.9824 R 11037



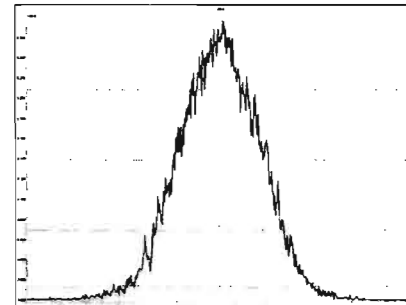
M 304.9824 R 11037



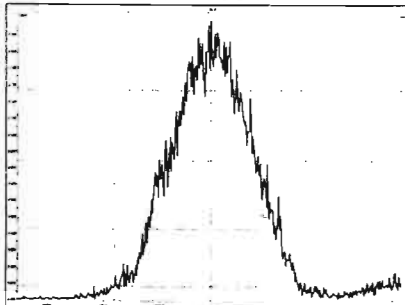
M 318.9792 R 10807



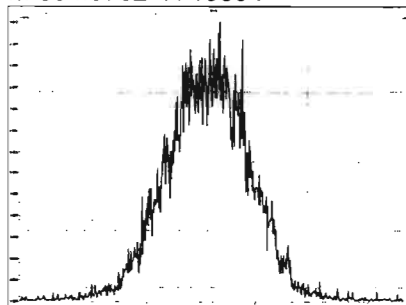
M 330.9792 R 10731



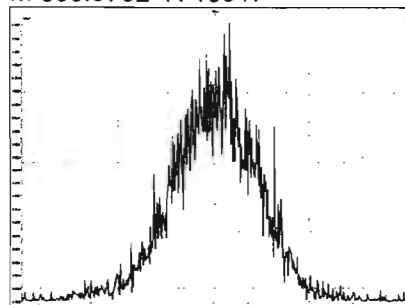
M 342.9792 R 10684



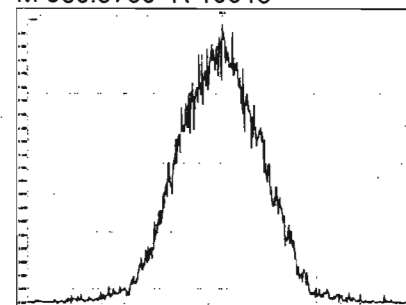
M 354.9792 R 10894



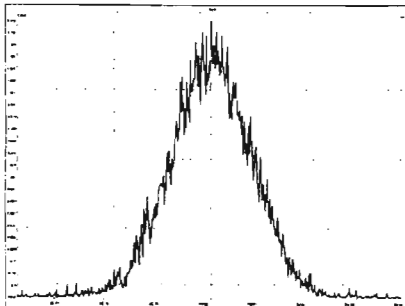
M 366.9792 R 10917



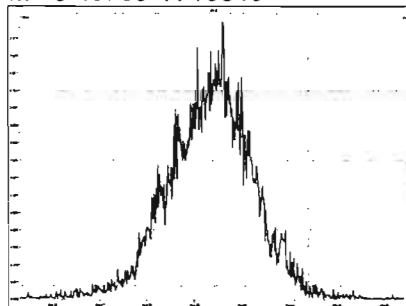
M 380.9760 R 10616



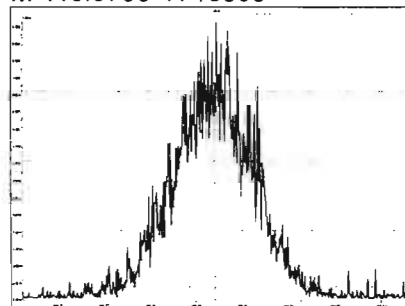
M 392.9760 R 11111



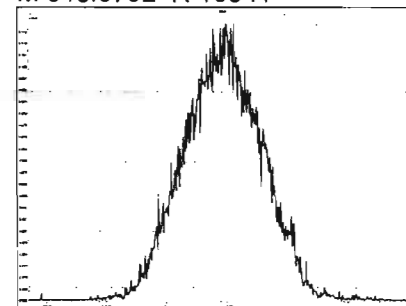
M 404.9760 R 10846



M 416.9760 R 10933

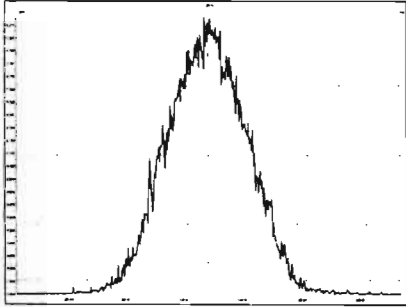


M 318.9792 R 10941

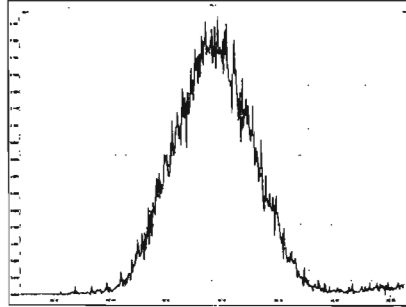


Printed: Saturday, February 29, 2020 23:14:43 Pacific Standard Time

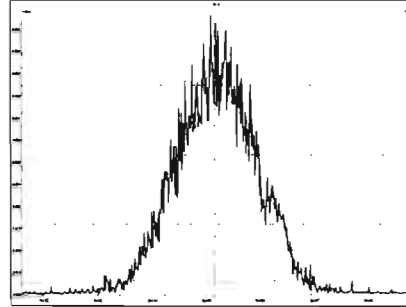
M 330.9792 R 11237



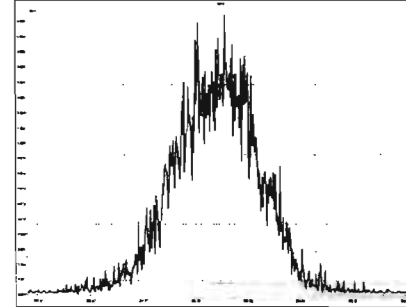
M 342.9792 R 11087



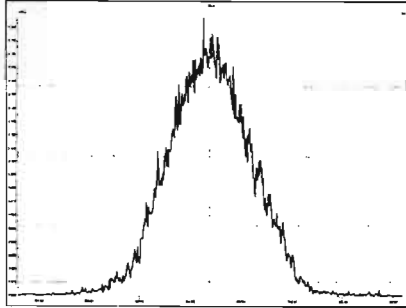
M 354.9792 R 10616



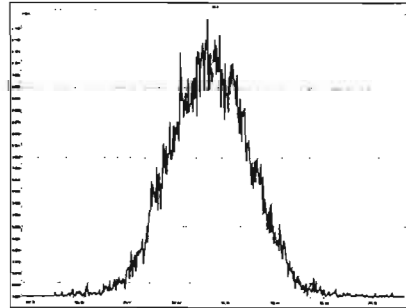
M 366.9792 R 11014



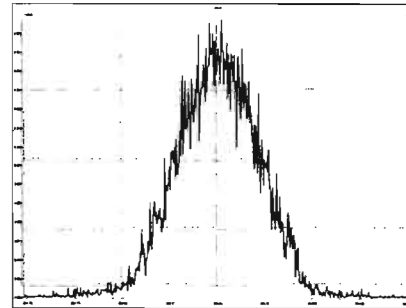
M 380.9760 R 10636



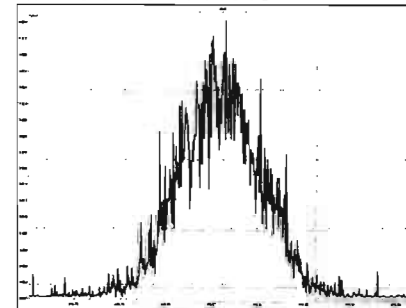
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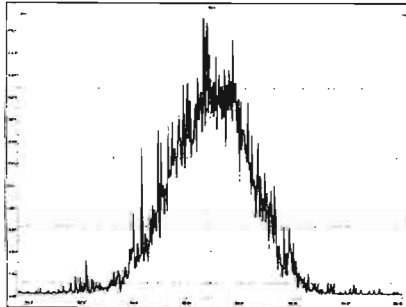
M 404.9760 R 11037



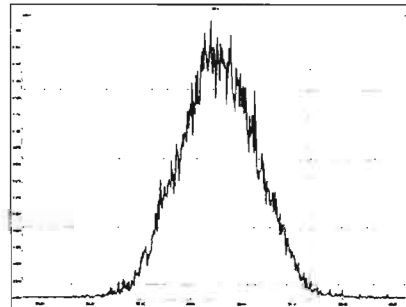
M 416.9760 R 11013



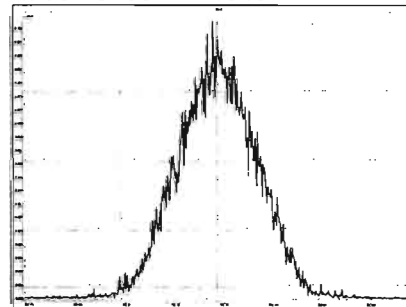
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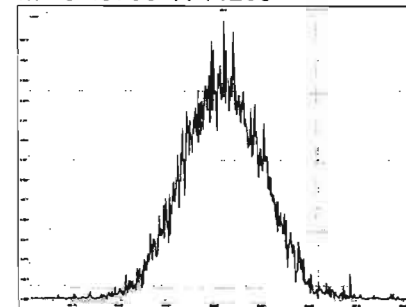
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M 392.9760 R 11340

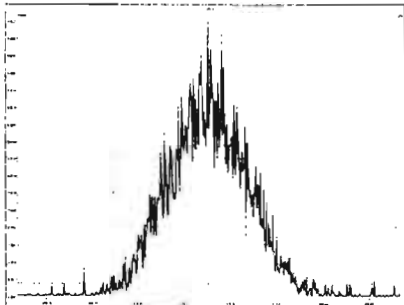


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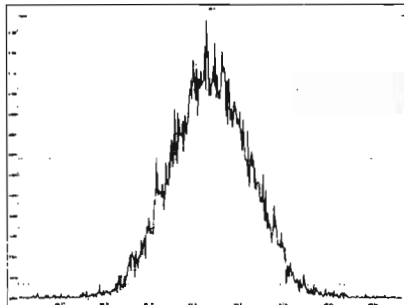


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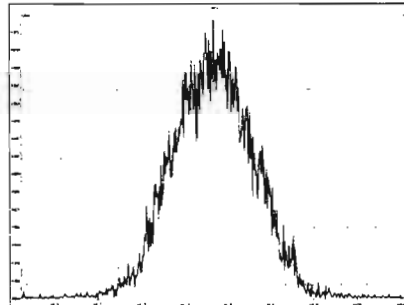
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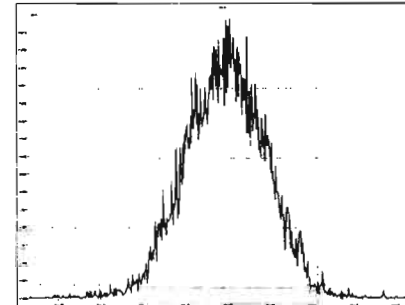
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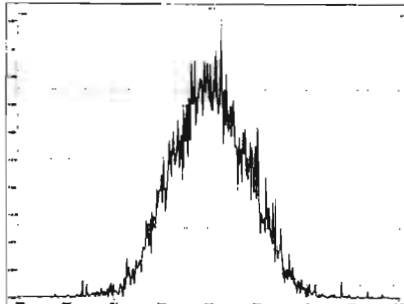
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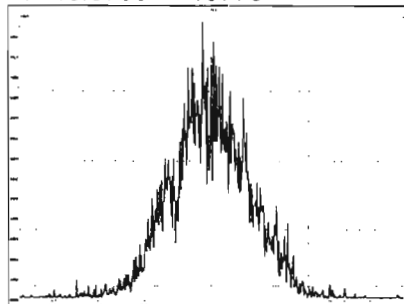
M 454.9728 R 10946



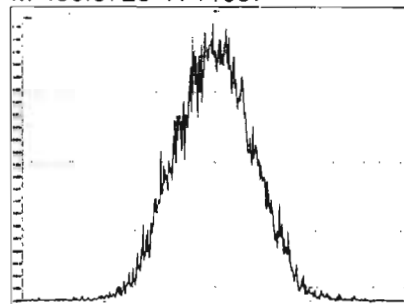
M 404.9760 R 11112



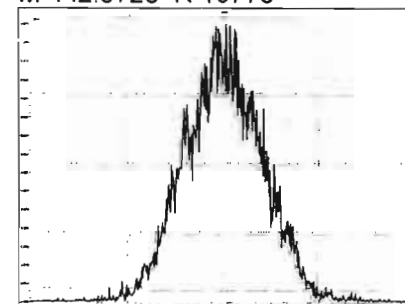
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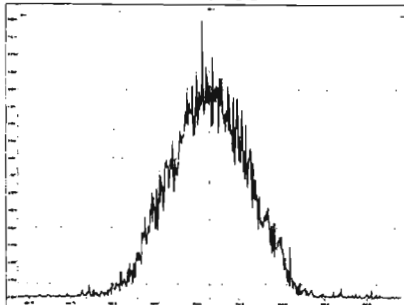
M 430.9728 R 11037



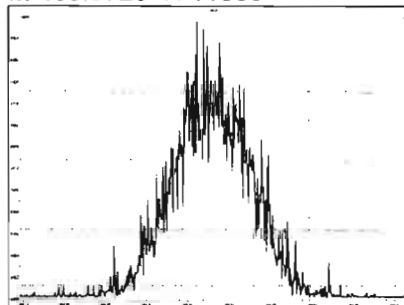
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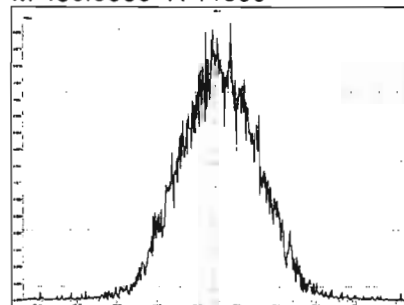
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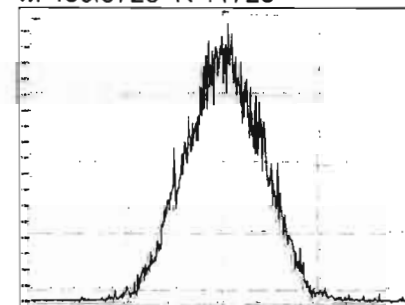
M 466.9728 R 11633



M 480.9696 R 11363

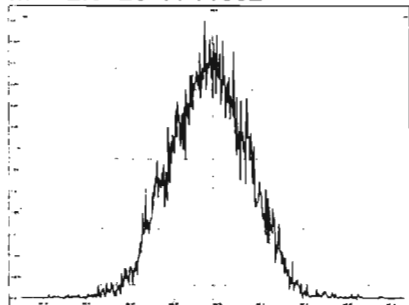


M 430.9728 R 11723

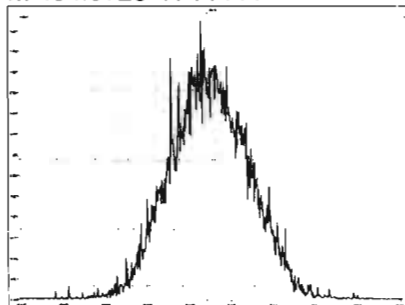


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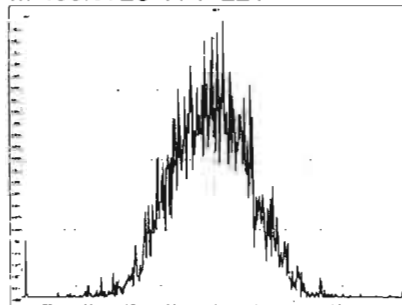
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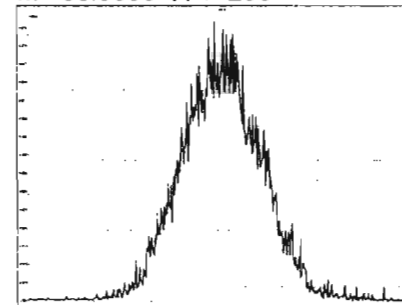
M 454.9728 R 11444



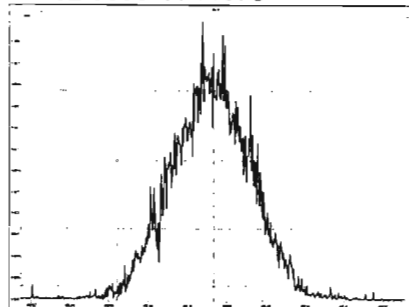
M 466.9728 R 11221



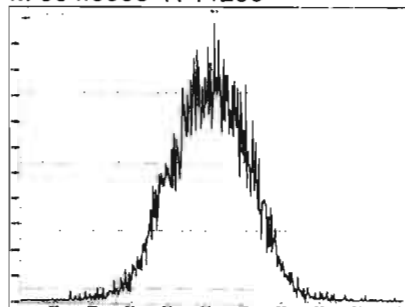
M 480.9696 R 11266



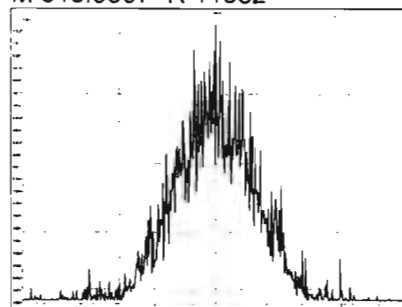
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M 504.9696 R 11293



M 516.9697 R 11682



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Printed: Monday, March 02, 2020 09:54:31 Pacific Standard Time

GPB 03/02/2020

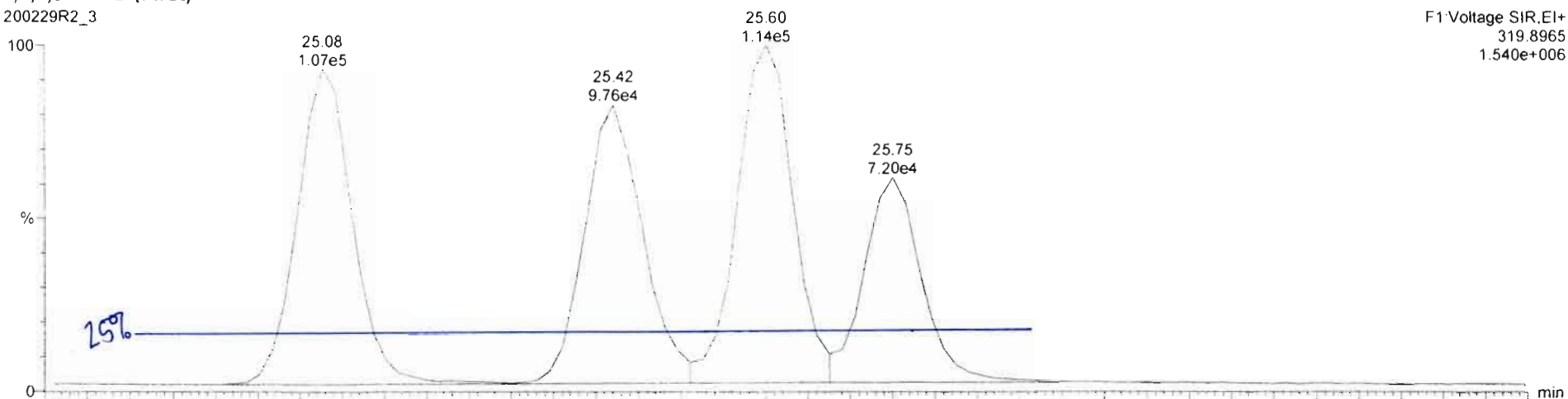
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C7 03/02/2020

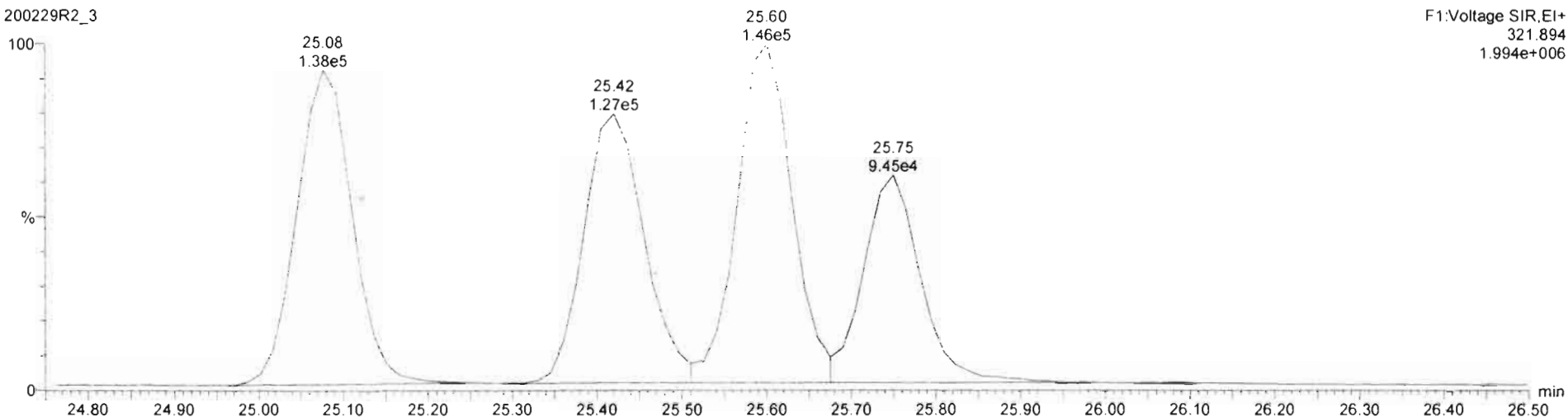
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1,3,6,8-TCDD (First)

200229R2_3



200229R2_3



Dataset: Untitled

Last Altered: Monday, March 02, 2020 09:55:59 Pacific Standard Time

Printed: Monday, March 02, 2020 09:56:08 Pacific Standard Time

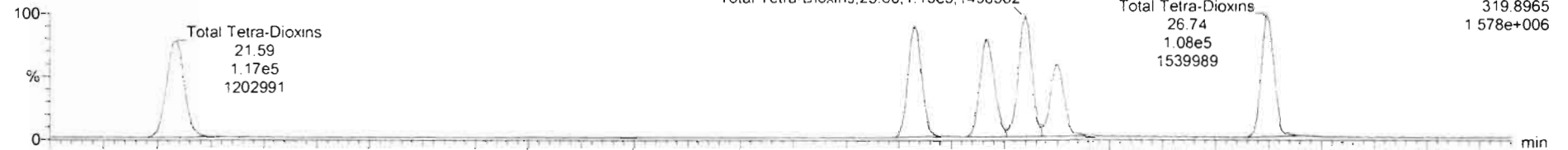
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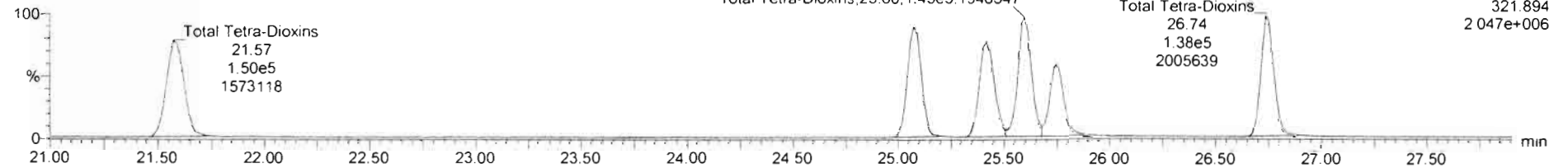
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2,3,7,8-TCDD

200229R2_3

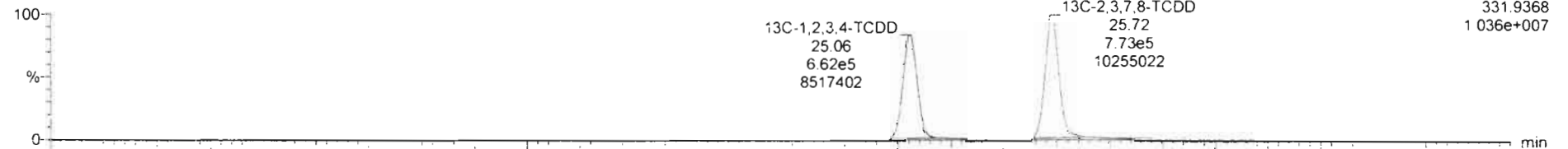


200229R2_3

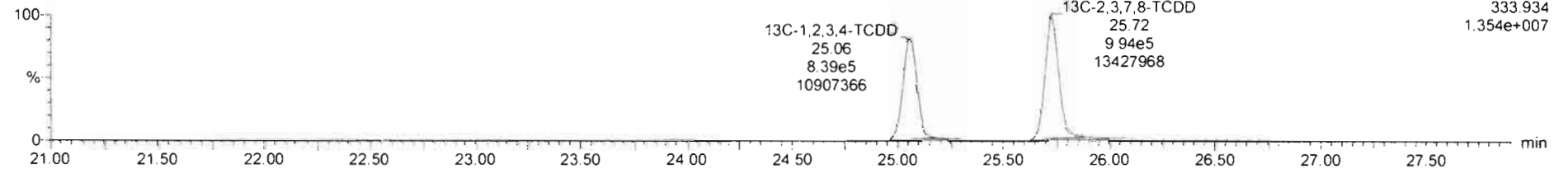


13C-2,3,7,8-TCDD

200229R2_3



200229R2_3



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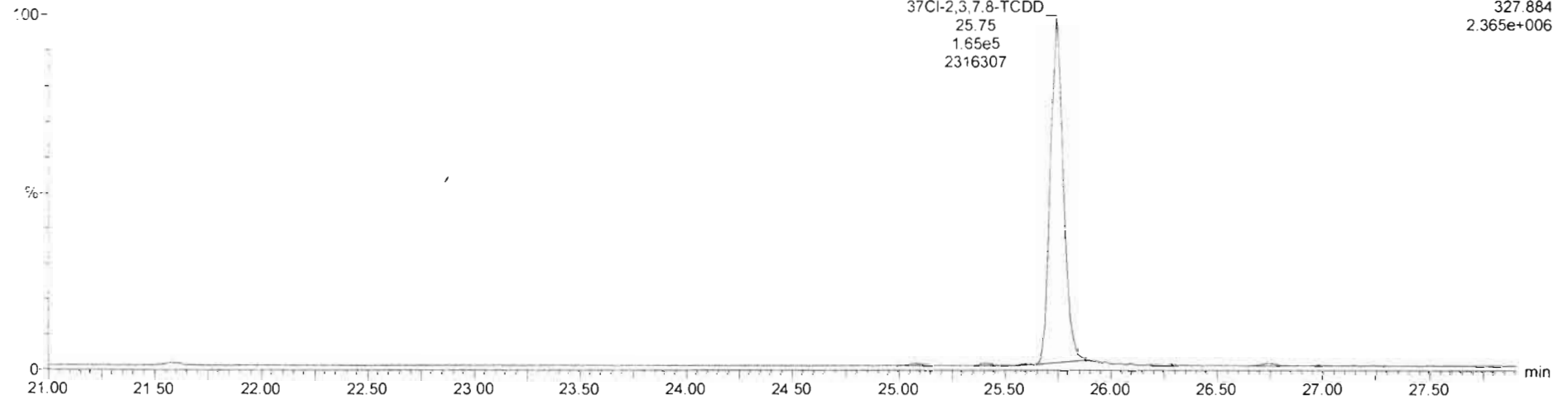
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37Cl-2,3,7,8-TCDD

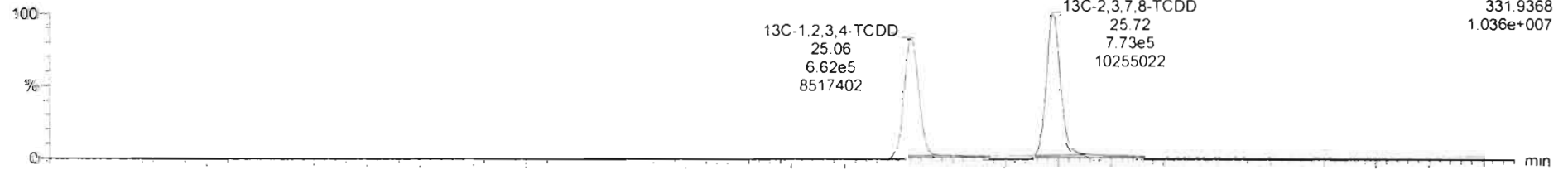
200229R2_3



F1: Voltage SIR, EI+
327.884
2.365e+006

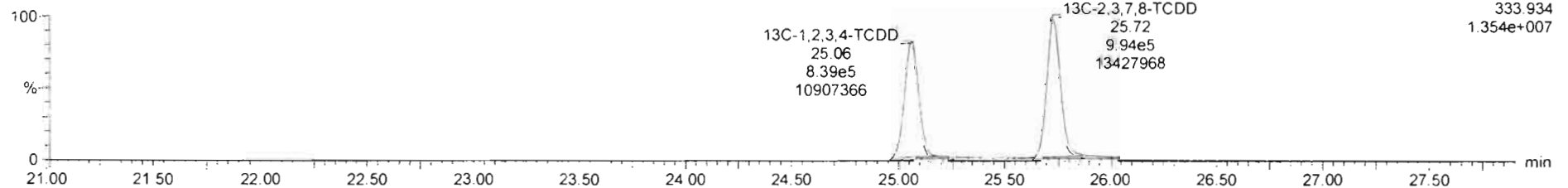
13C-1,2,3,4-TCDD

200229R2_3



F1: Voltage SIR, EI+
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1.036e+007

200229R2_3



F1: Voltage SIR, EI+
333.934
1.354e+007

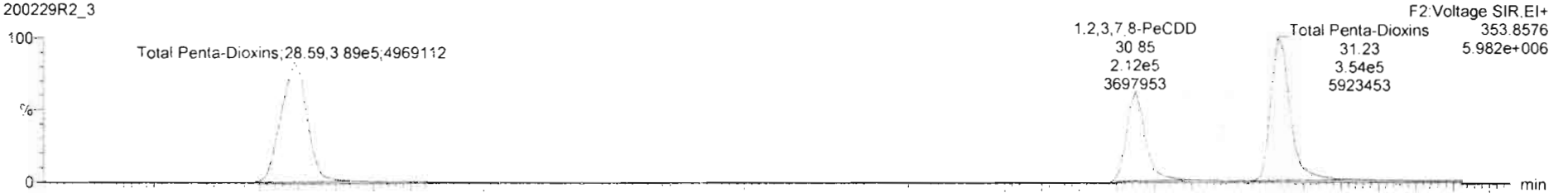
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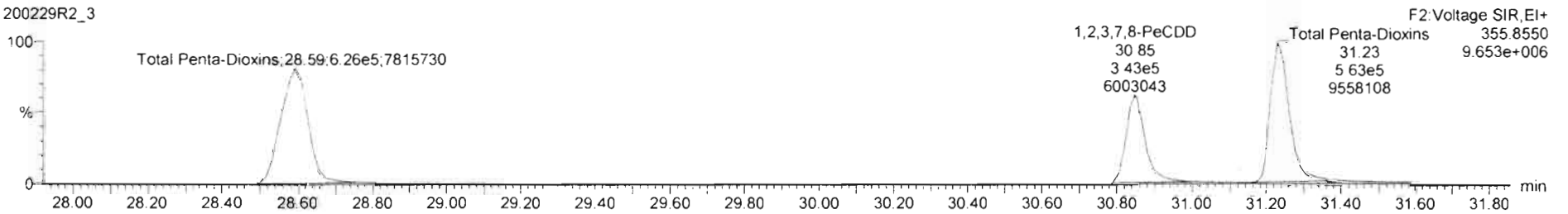
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1,2,3,7,8-PeCDD

200229R2_3

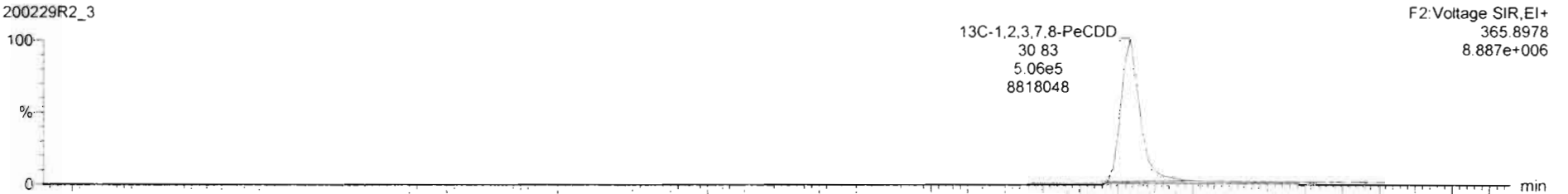


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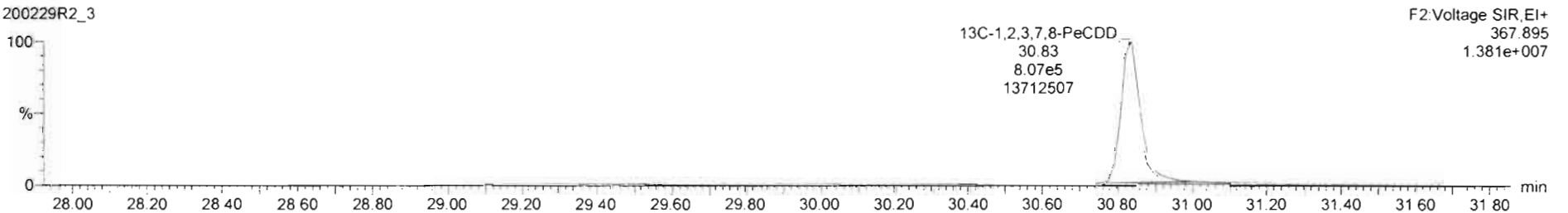


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200229R2_3



200229R2_3



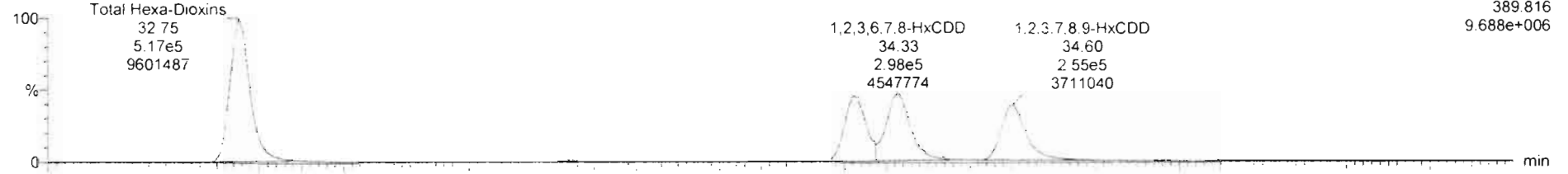
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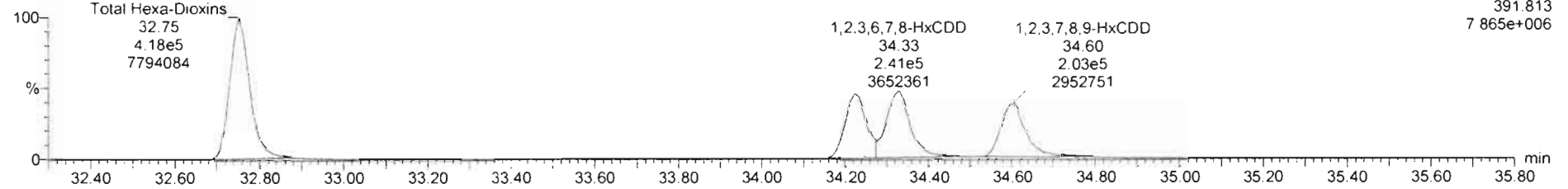
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1,2,3,4,7,8-HxCDD

200229R2_3

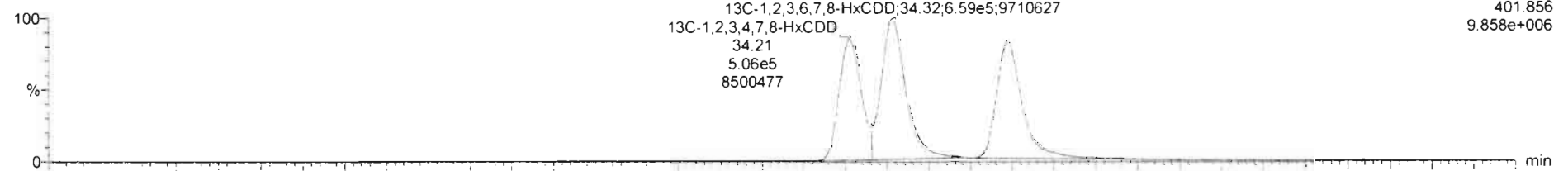


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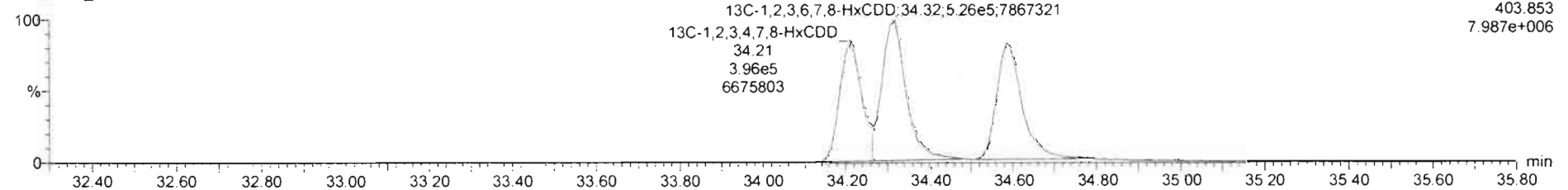


13C-1,2,3,4,7,8-HxCDD

200229R2_3



200229R2_3



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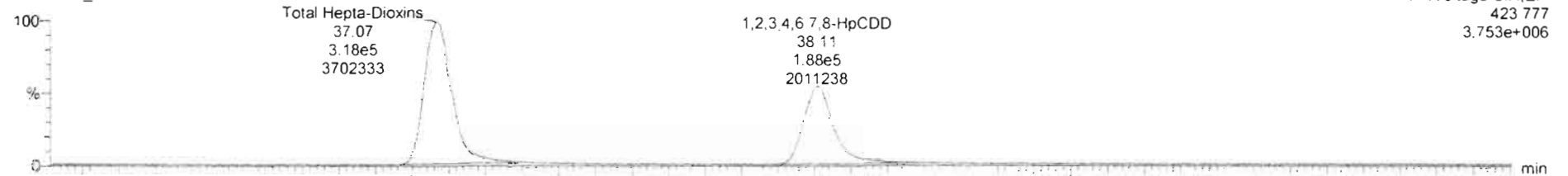
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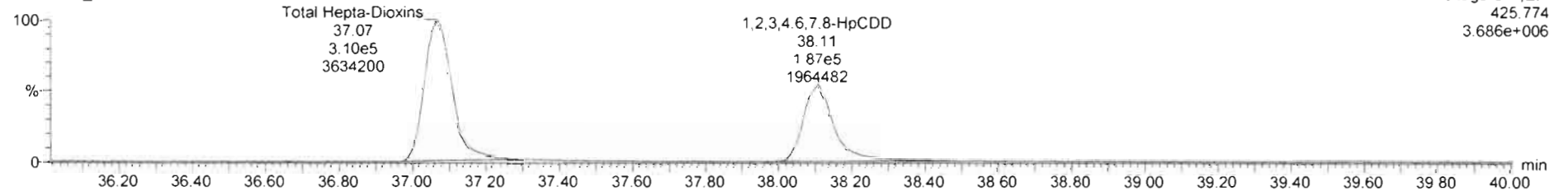
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1,2,3,4,6,7,8-HpCDD

200229R2_3

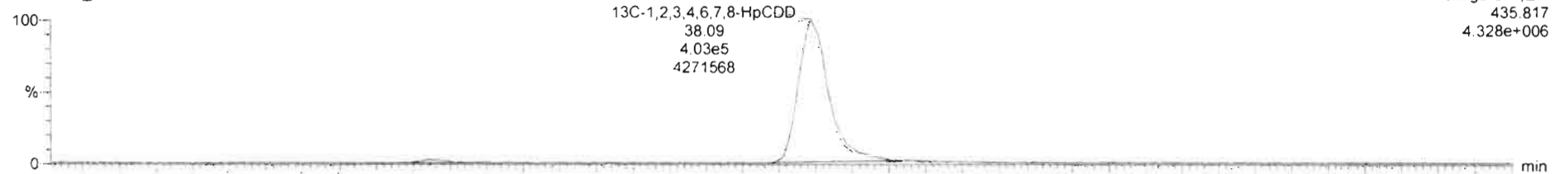


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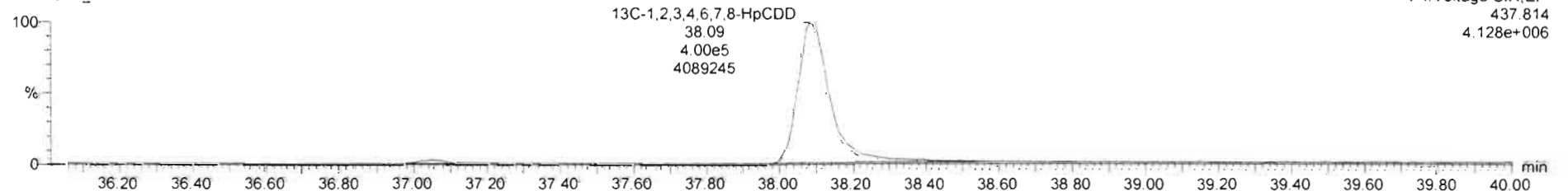


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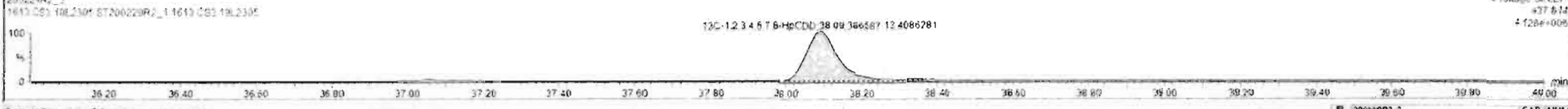
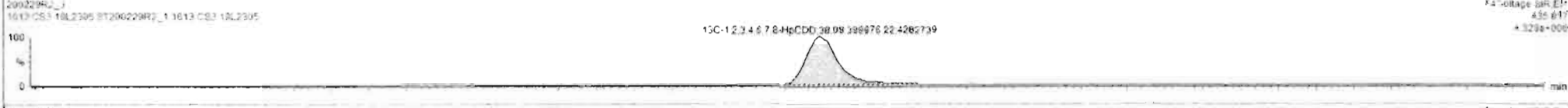
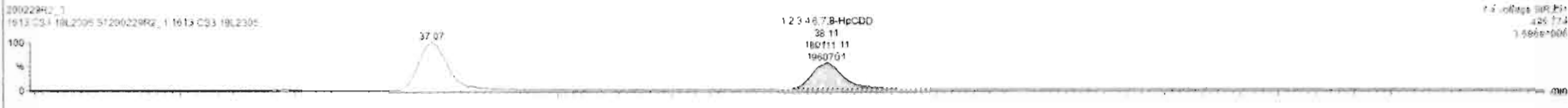
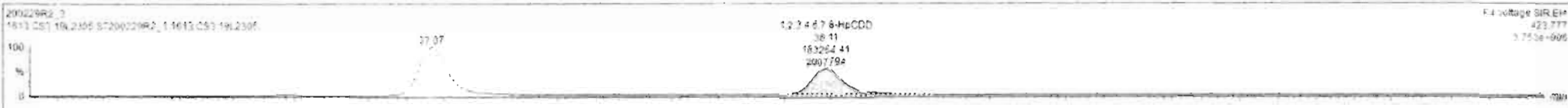
200229R2_3



200229R2_3



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,6-TCDD	1.63e5	1.77e5	0.77	0.78	NO	0.9881	25.75	25.75	NO	1.001	1.001	9.34	93.4	NO
2	1,2,3,7,8-PeCDD	5.58e5	1.31e6	0.63	0.62	NO	0.9723	30.86	30.85	NO	1.001	1.000	43.5	87.0	NO
3	1,2,3,4,7,8-HxCDD	4.65e5	9.03e5	1.24	1.23	NO	1.0708	34.22	34.22	NO	1.000	1.000	46.1	96.2	NO
4	1,2,3,6,7,8-HxCDD	5.39e5	1.19e6	1.24	1.23	NO	0.9211	34.32	34.33	NO	1.000	1.000	45.4	96.8	NO
5	1,2,3,7,8-HxCDD	4.58e5	1.03e6	1.24	1.25	NO	0.9182	34.62	34.60	NO	1.001	1.001	48.2	96.4	NO
6	1,2,3,4,6,7,8-HpCDD	3.63e5	7.67e5	1.04	1.02	NO	0.9231	38.10	38.11	NO	1.000	1.001	50.0	100	NO
7	OCDD	7.15e5	1.50e6	0.89	0.87	NO	0.9748	41.21	41.22	NO	1.000	1.000	98.1	98.1	NO
8	1,2,3,7,8-TCDF	1.85e5	2.24e6	0.77	0.75	NO	0.8025	24.80	24.81	NO	1.001	1.001	16.3	163	NO
9	1,2,3,7,8-PeCDF	8.08e5	1.79e6	1.55	1.54	NO	0.9874	29.54	29.54	NO	1.001	1.000	46.7	95.3	NO
10	1,2,3,4,7,8-PeCDF	8.19e5	1.74e6	1.55	1.54	NO	0.9516	30.55	30.57	NO	1.001	1.000	45.4	98.6	NO
11	1,2,3,4,7,8-HxCDF	5.62e5	1.17e6	1.24	1.25	NO	0.8627	33.35	33.37	NO	1.000	1.001	58.7	111	NO
12	1,2,3,6,7,8-HxCDF	6.65e5	1.39e6	1.24	1.16	NO	0.8414	33.49	33.49	NO	1.000	1.000	57.0	114	NO
13	1,2,3,4,6,7,8-HxCDF	6.05e5	1.26e6	1.24	1.20	NO	0.8982	34.07	34.05	NO	1.001	1.000	53.6	107	NO
14	1,2,3,7,8-HxCDF	4.66e5	1.02e6	1.24	1.15	NO	0.8679	34.92	34.96	NO	1.000	1.001	53.1	106	NO
15	1,2,3,4,6,7,8-HpCDF	4.44e5	9.80e5	1.04	0.99	NO	0.8511	36.71	36.66	NO	1.001	1.000	54.4	109	NO
16	1,2,3,4,7,8,9-HpCDF	3.53e5	6.31e5	1.04	0.99	NO	0.9796	36.74	36.75	NO	1.000	1.000	57.0	114	NO
17	OCDF	7.46e5	1.72e6	0.89	0.85	NO	0.8855	41.58	41.40	NO	1.000	1.000	109	108	NO
18	1,2,3,4,6,7,8-TCDF	1.77e5	1.50e6	0.77	0.75	NO	1.1985	25.71	25.72	NO	1.026	1.026	98.2	98.2	NO
19	1,2,3,4,7,8-PeCDD	1.21e6	1.50e6	0.63	0.63	NO	0.9667	30.84	30.83	NO	1.230	1.230	95.5	95.5	NO
20	1,2,3,4,6,7,8-HxCDD	5.03e5	1.20e6	1.24	1.28	NO	0.8735	34.22	34.21	NO	1.014	1.014	86.0	86.0	NO
21	1,2,3,4,7,8-HxCDD	1.19e6	1.20e6	1.24	1.25	NO	1.0456	34.32	34.32	NO	1.017	1.017	94.4	94.4	NO

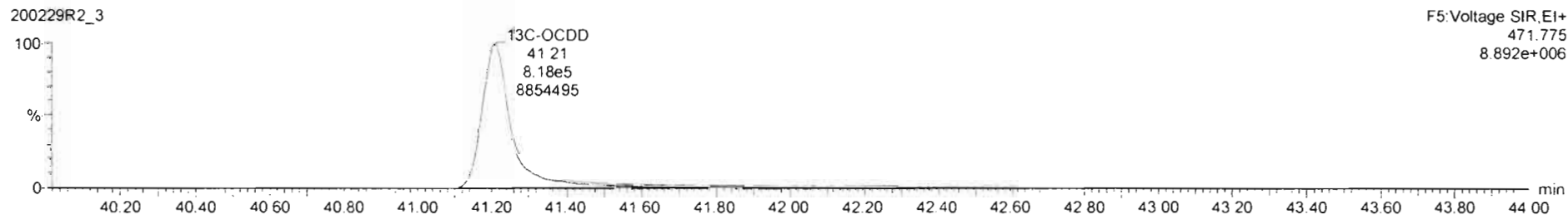
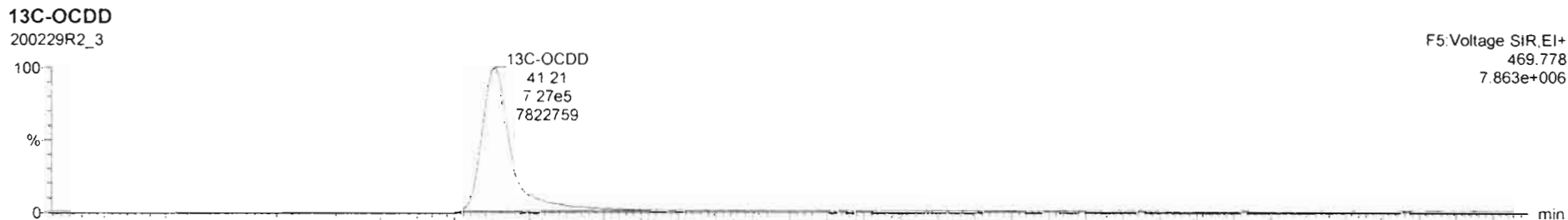
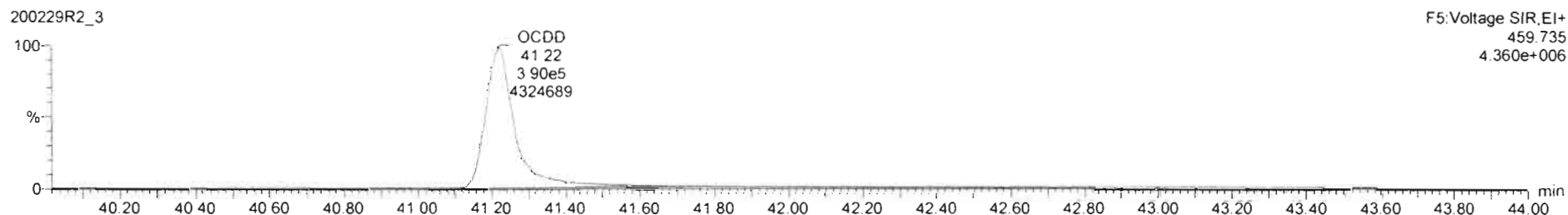


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Printed: Monday, March 02, 2020 09:56:08 Pacific Standard Time

Name: 200229R2_3, Date: 01-Mar-2020, Time: 00:48:26, ID: ST200229R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.63e5	1.77e6	0.77	0.78	NO	0.9881	25.75	25.75	NO	1.001	1.001	9.34	93.4	NO
2	1,2,3,7,8-PeCDD	5.56e5	1.21e6	0.63	0.62	NO	0.9723	30.86	30.85	NO	1.001	1.000	43.8	87.0	NO
3	1,2,3,4,7,8-HxCDD	4.05e5	9.03e5	1.24	1.23	NO	1.0702	34.22	34.22	NO	1.000	1.000	46.1	92.2	NO
4	1,2,3,6,7,8-HxCDD	5.39e5	1.19e6	1.24	1.23	NO	0.9211	34.32	34.33	NO	1.000	1.000	49.4	98.8	NO
5	1,2,3,7,8,9-HxCDD	4.59e5	1.03e6	1.24	1.25	NO	0.9182	34.62	34.65	NO	1.001	1.001	48.2	96.4	NO
6	1,2,3,4,6,7,8-HpCDD	1.61e5	7.97e5	1.04	0.92	NO	0.9231	38.10	38.11	NO	1.006	1.001	50.0	100	NO
7	OCDD	7.15e5	1.50e6	0.89	0.87	NO	0.9748	41.21	41.22	NO	1.000	1.000	68.1	98.1	NO
8	2,3,7,8-TCDF	1.85e5	2.24e6	0.77	0.75	NO	0.9320	24.80	24.81	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	8.08e5	1.78e6	1.55	1.54	NO	0.9974	28.54	28.54	NO	1.001	1.000	49.7	99.2	NO
10	2,3,4,7,8-PeCDF	8.19e5	1.74e6	1.55	1.54	NO	0.9516	30.55	30.53	NO	1.001	1.000	49.4	98.8	NO
11	1,2,3,4,7,8-HxCDF	5.62e5	1.17e6	1.24	1.25	NO	0.9623	32.32	32.37	NO	1.000	1.001	56.7	111	NO
12	1,2,3,6,7,8-HxCDF	6.85e5	1.28e6	1.24	1.19	NO	0.9414	32.45	32.48	NO	1.000	1.000	57.0	114	NO
13	2,3,4,6,7,8-HxCDF	6.05e5	1.26e6	1.24	1.20	NO	0.8962	34.07	34.05	NO	1.001	1.000	53.6	107	NO
14	1,2,3,7,8,9-HxCDF	4.68e5	1.02e6	1.24	1.19	NO	0.8578	34.92	34.95	NO	1.000	1.001	52.1	105	NO
15	1,2,3,4,6,7,8-HpCDF	4.44e5	9.60e5	1.04	0.99	NO	0.8511	36.71	36.68	NO	1.007	1.000	54.4	109	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	6.31e5	1.04	0.95	NO	0.9796	38.74	38.75	NO	1.000	1.000	57.0	114	NO
17	OCDF	7.46e5	1.72e6	0.89	0.89	NO	0.8285	41.39	41.40	NO	1.000	1.000	108	108	NO
18	13C-1,2,3,7,8-TCDD	1.77e6	1.50e6	0.77	0.78	NO	1.1885	25.71	25.72	NO	1.026	1.026	98.2	98.2	NO
19	13C-1,2,3,7,8-PeCDD	1.31e6	1.50e6	0.63	0.63	NO	0.9667	30.84	30.83	NO	1.230	1.230	90.5	90.5	NO
20	13C-1,2,3,4,7,8-HxCDD	9.02e5	1.20e6	1.24	1.28	NO	0.8736	34.22	34.21	NO	1.014	1.014	86.0	86.0	NO
21	13C-1,2,3,6,7,8-HxCDD	1.19e6	1.20e6	1.24	1.25	NO	1.0468	34.30	34.32	NO	1.017	1.017	94.4	94.4	NO



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Printed: Monday, March 02, 2020 09:56:08 Pacific Standard Time

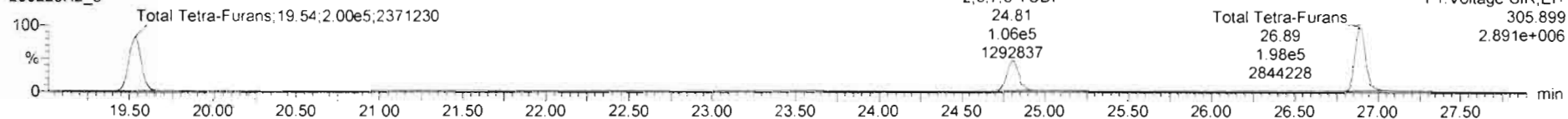
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2,3,7,8-TCDF

200229R2_3

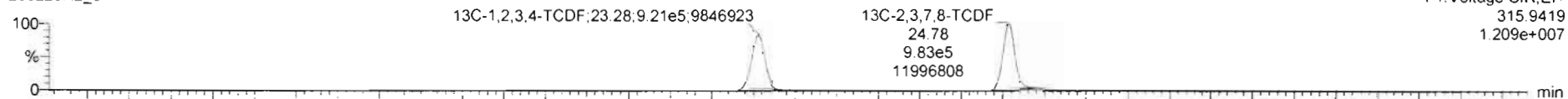


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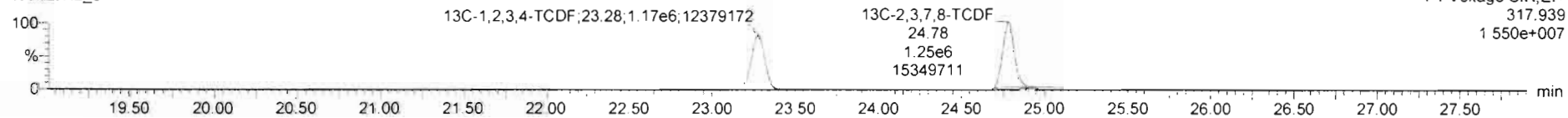


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200229R2_3

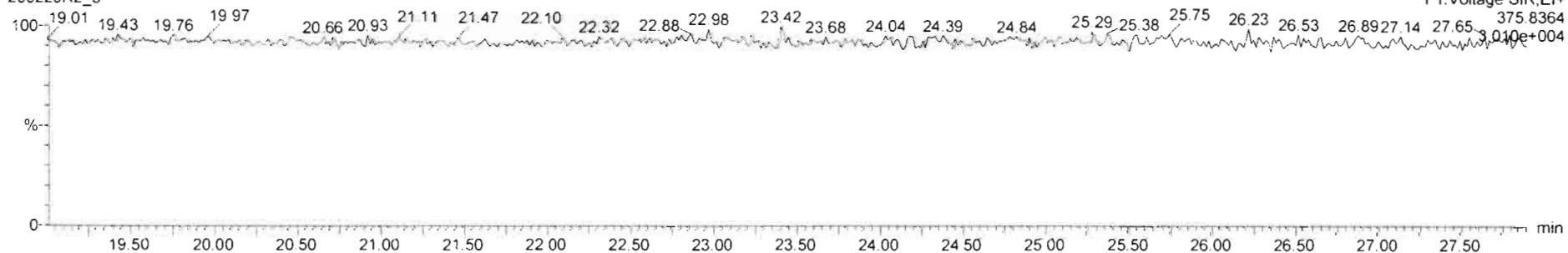


200229R2_3



DPE1

200229R2_3



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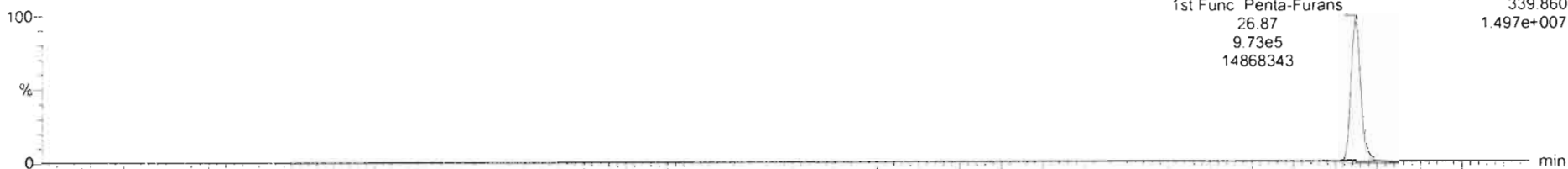
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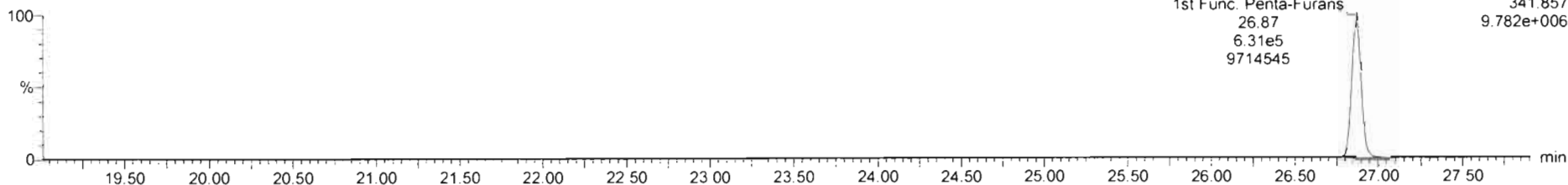
Name: 200229R2_3, Date: 01-Mar-2020, Time: 00:48:26, ID: ST200229R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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200229R2_3

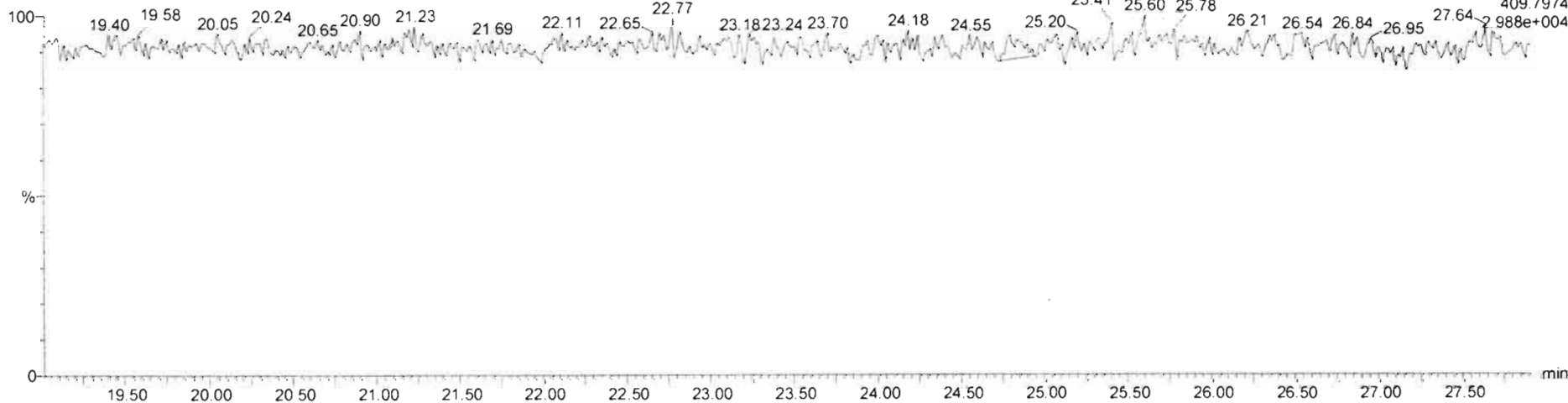


200229R2_3



DPE6

200229R2_3



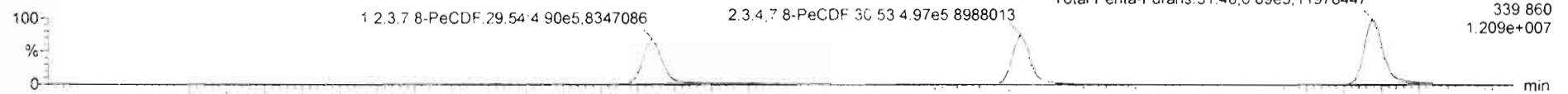
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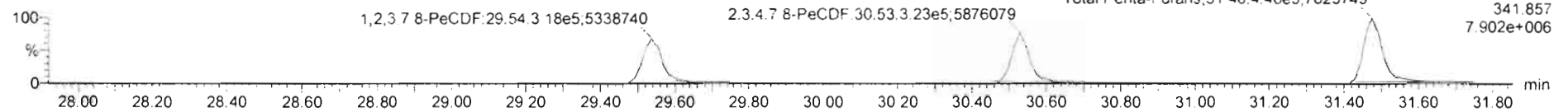
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1,2,3,7,8-PeCDF

200229R2_3

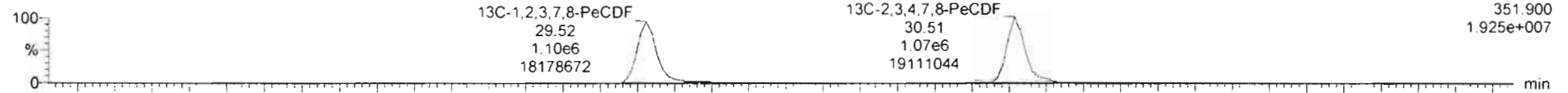


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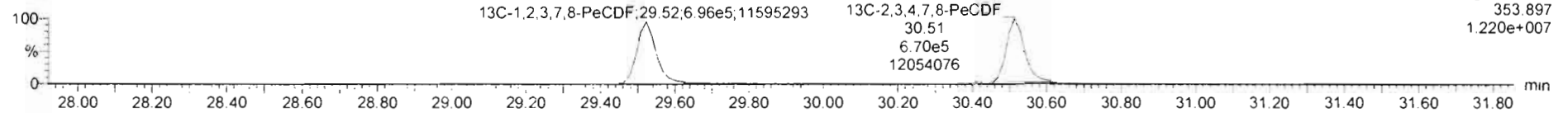


13C-1,2,3,7,8-PeCDF

200229R2_3

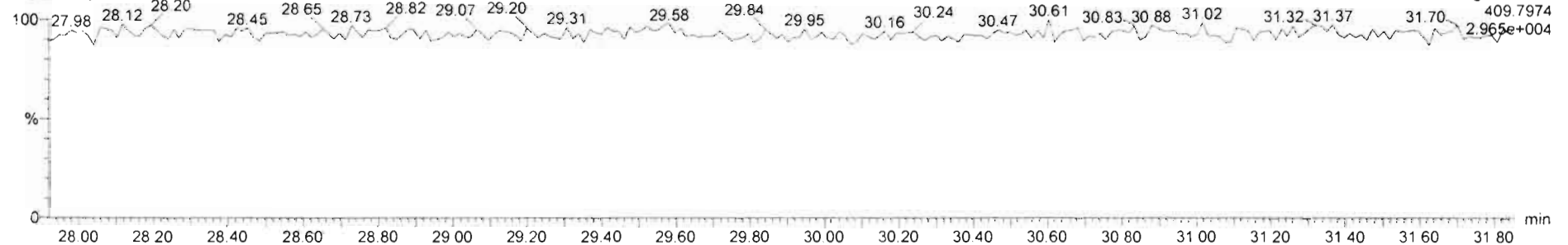


200229R2_3



DPE2

200229R2_3

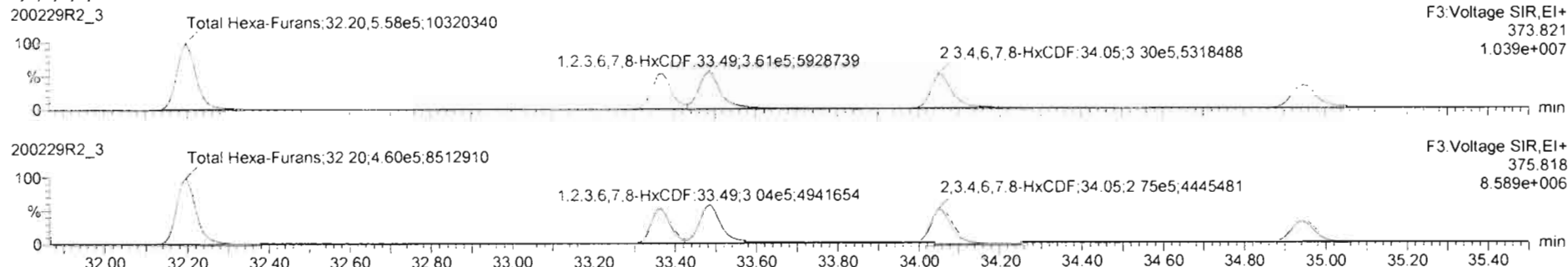


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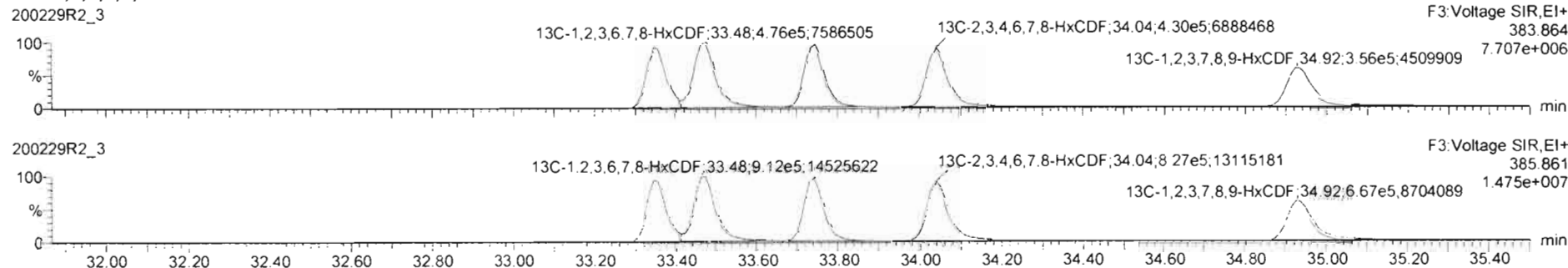
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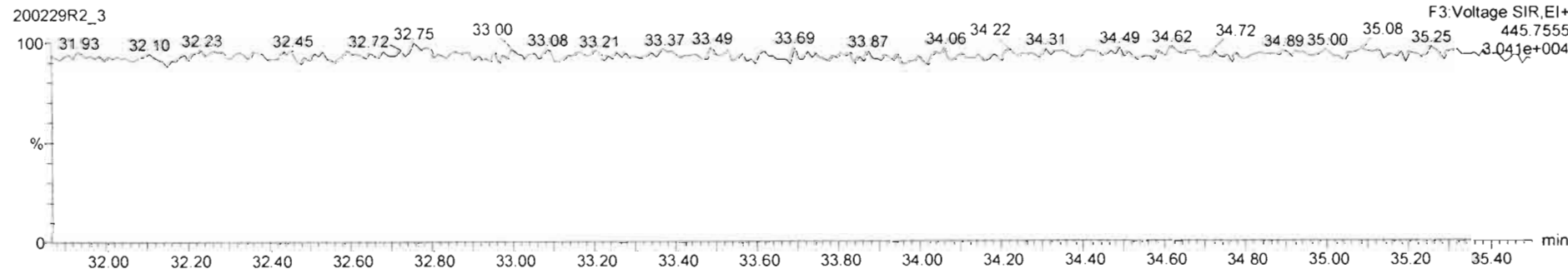
1,2,3,4,7,8-HxCDF



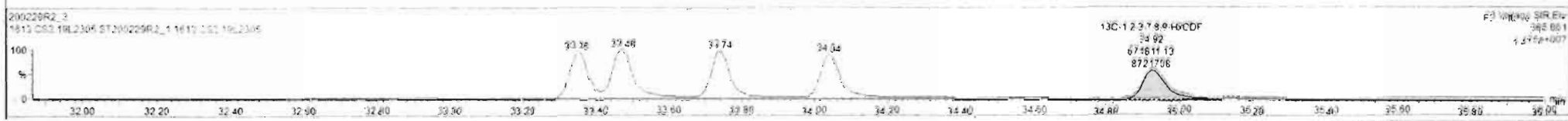
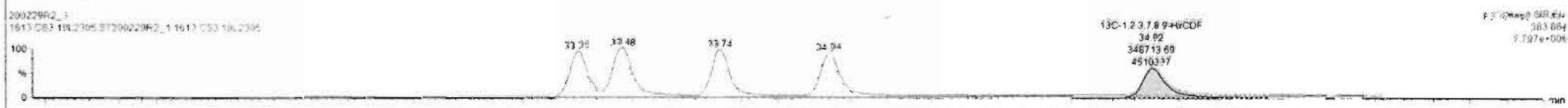
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	Resp	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	1.63e5	1.77e6	0.77	0.78	NO	0.5851	25.75	25.75	NO	1.001	1.001	5.34	50.4	NO
2	1,2,3,7,8-PeCDD	5.56e5	1.21e6	0.63	0.62	NO	0.9723	30.88	30.88	NO	1.001	1.000	43.5	87.0	NO
3	1,2,3,4,7,8-HxCDD	4.85e5	9.02e5	1.24	1.23	NO	1.0708	34.22	34.22	NO	1.000	1.000	46.1	96.2	NO
4	1,2,3,6,7,8-HxCDD	5.39e5	1.19e6	1.24	1.23	NO	0.9211	34.32	34.32	NO	1.000	1.000	49.4	98.8	NO
5	1,2,3,7,8-HxCDF	4.58e5	1.03e6	1.24	1.25	NO	0.9162	34.62	34.66	NO	1.001	1.001	48.2	96.4	NO
6	1,2,3,4,6,7,8-HpCDD	1.63e5	7.87e5	1.04	1.02	NO	0.9231	36.10	36.11	NO	1.000	1.001	56.0	100	NO
7	OCDD	7.15e5	1.50e6	0.89	0.87	NO	0.8748	41.21	41.22	NO	1.000	1.000	98.1	98.1	NO
8	1,2,3,7,8-TCDF	1.85e5	2.24e6	0.77	0.75	NO	0.6920	24.80	24.81	NO	1.001	1.001	10.3	102	NO
9	1,2,3,7,8-PeCDF	6.08e5	1.75e6	1.55	1.54	NO	0.9974	29.54	29.54	NO	1.001	1.000	46.7	99.3	NO
10	1,2,3,4,7,8-HxCDF	8.19e5	1.74e6	1.55	1.54	NO	0.9519	30.55	30.53	NO	1.001	1.000	46.4	98.6	NO
11	1,2,3,4,7,8-HxCDF	5.82e5	1.17e6	1.24	1.25	NO	0.6623	33.34	33.37	NO	1.000	1.001	56.7	111	NO
12	1,2,3,6,7,8-HxCDF	6.65e5	1.29e6	1.24	1.16	NO	0.8414	33.49	33.49	NO	1.000	1.000	57.0	114	NO
13	1,2,3,4,6,7,8-HpCDF	6.95e5	1.26e6	1.24	1.20	NO	0.8962	34.07	34.05	NO	1.001	1.000	53.6	107	NO
14	1,2,3,7,8,9-HxCDF	4.68e5	1.02e6	1.24	1.19	NO	0.8578	34.92	34.95	NO	1.000	1.001	53.1	106	NO
15	1,2,3,4,6,7,8-HpCDF	4.44e5	9.90e5	1.04	0.99	NO	0.8511	36.71	36.68	NO	1.001	1.000	54.4	109	NO
16	1,2,3,4,7,8,9-HpCDF	3.53e5	6.21e5	1.04	0.95	NO	0.9799	36.74	36.75	NO	1.000	1.000	57.0	114	NO
17	OCDF	7.48e5	1.72e6	0.89	0.89	NO	0.8955	41.39	41.40	NO	1.000	1.000	108	108	NO
18	13C-1,2,3,7,8-TCDD	1.77e6	1.50e6	0.77	0.78	NO	1.1985	25.71	25.72	NO	1.026	1.026	98.2	98.2	NO
19	13C-1,2,3,7,8-PeCDD	1.31e6	1.50e6	0.63	0.63	NO	0.9667	30.84	30.83	NO	1.230	1.230	96.5	96.5	NO
20	13C-1,2,3,4,7,8-HxCDD	9.03e5	1.20e6	1.24	1.28	NO	0.8739	34.22	34.21	NO	1.014	1.014	86.0	86.0	NO
21	13C-1,2,3,6,7,8-HxCDD	1.19e6	1.20e6	1.24	1.25	NO	1.0458	34.32	34.32	NO	1.017	1.017	94.4	94.4	NO



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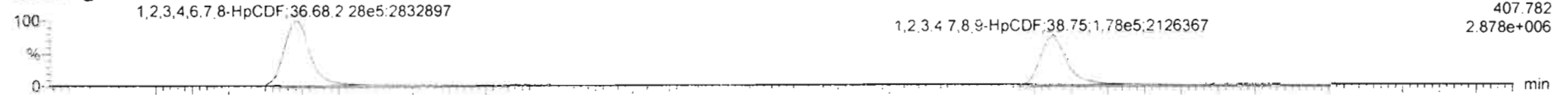
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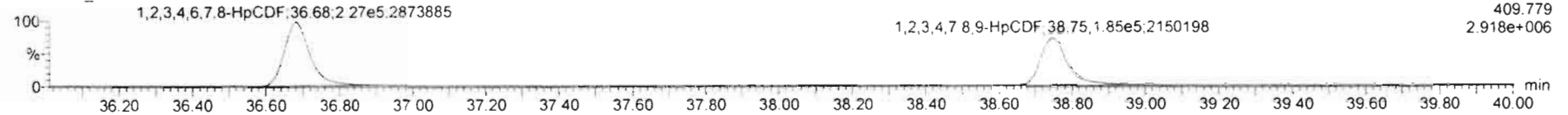
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1,2,3,4,6,7,8-HpCDF

200229R2_3

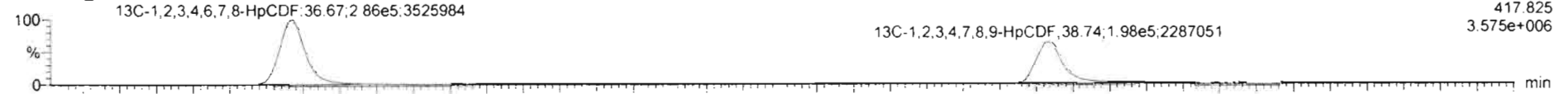


200229R2_3

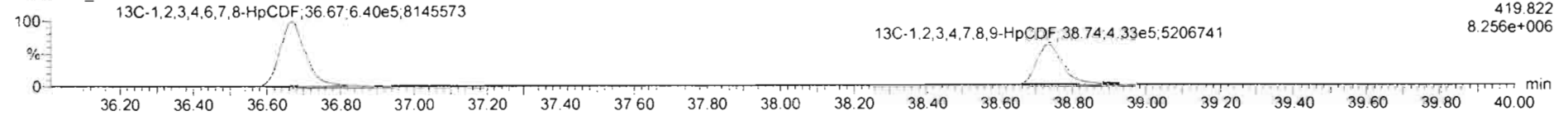


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200229R2_3

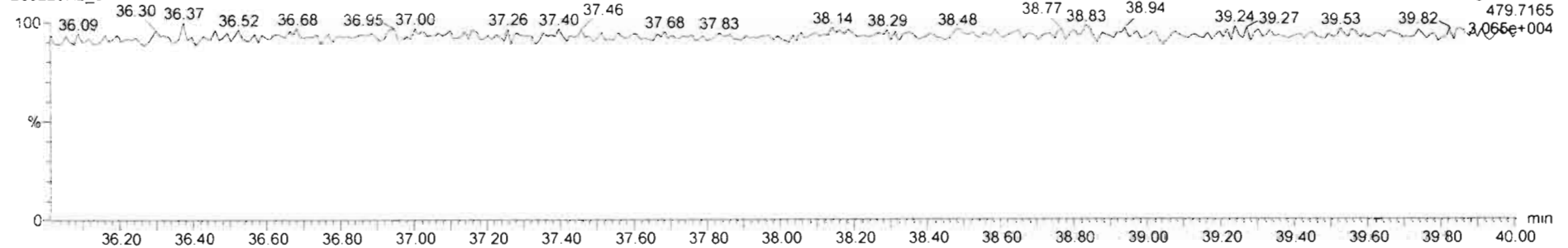


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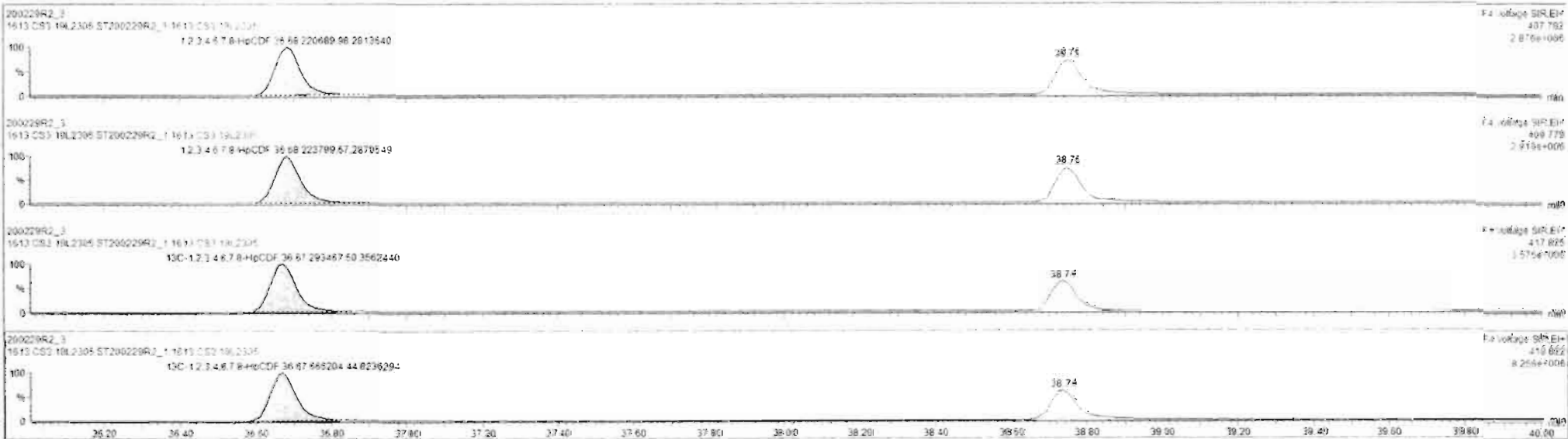


DPE4

200229R2_3



#	Name	Resp	S Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Ccnc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.63e5	1.77e5	0.77	0.78	NO	0.9881	26.75	26.75	NO	1.001	1.001	9.34	93.4	NO
2	1,2,3,7,8-PeCDD	5.58e5	1.21e6	0.63	0.62	NO	0.9723	36.85	36.85	NO	1.001	1.000	43.5	87.0	NO
3	1,2,3,4,7,8-HxCDD	4.85e5	9.25e5	1.24	1.23	NO	1.0708	34.22	34.22	NO	1.000	1.000	48.1	96.2	NO
4	1,2,3,6,7,8-HxCDD	5.39e5	1.19e6	1.24	1.21	NO	0.9211	34.32	34.32	NO	1.000	1.000	49.4	98.8	NO
5	1,2,3,7,8,9-HxCDD	4.59e5	1.03e6	1.24	1.24	NO	0.9182	34.62	34.62	NO	1.001	1.001	46.2	96.4	NO
6	1,2,3,4,6,7,8-HpCDD	3.43e5	7.27e5	1.04	1.02	NO	0.9231	36.10	36.11	NO	1.000	1.001	56.0	100	NO
7	OCDD	7.15e5	1.50e6	0.89	0.87	NO	0.9746	41.21	41.22	NO	1.000	1.000	58.1	98.1	NO
8	1,2,3,7,8-TCDF	1.85e5	1.24e6	0.77	0.75	NO	0.9820	24.80	24.81	NO	1.001	1.001	19.3	183	NO
9	1,2,3,7,8-PeCDF	9.08e5	1.79e6	1.15	1.14	NO	0.9074	29.54	29.54	NO	1.001	1.000	49.7	99.3	NO
10	1,2,3,4,7,8-PeCDF	8.19e5	1.74e6	1.15	1.14	NO	0.8516	30.55	30.53	NO	1.001	1.000	49.4	98.8	NO
11	1,2,3,4,7,8-HxCDF	5.62e5	1.17e6	1.24	1.25	NO	0.8623	33.35	33.37	NO	1.000	1.001	55.7	111	NO
12	1,2,3,6,7,8-HxCDF	8.85e5	1.35e6	1.24	1.19	NO	0.8414	33.49	33.49	NO	1.000	1.000	57.0	114	NO
13	1,2,3,4,6,7,8-HxCDF	6.05e5	1.26e6	1.24	1.20	NO	0.8982	34.07	34.05	NO	1.001	1.000	53.6	107	NO
14	1,2,3,7,8,9-HxCDF	4.68e5	1.02e6	1.24	1.19	NO	0.8578	34.52	34.50	NO	1.000	1.001	53.1	106	NO
15	1,2,3,4,6,7,8-HpCDF	4.44e5	9.60e5	1.04	0.99	NO	0.8511	36.71	36.68	NO	1.001	1.000	54.4	109	NO
16	1,2,3,4,7,8,9-HpCDF	3.25e5	6.21e5	1.04	0.99	NO	0.8799	36.74	36.75	NO	1.000	1.000	57.0	114	NO
17	OCDF	7.48e5	1.72e6	0.89	0.89	NO	0.8055	41.59	41.40	NO	1.000	1.000	106	100	NO
18	13C-1,2,3,7,8-TCDD	1.77e6	1.50e6	0.77	0.78	NO	1.1985	26.71	26.73	NO	1.026	1.026	96.2	96.2	NO
19	13C-1,2,3,7,8-PeCDD	1.21e6	1.59e6	0.63	0.63	NO	0.9667	36.84	36.83	NO	1.236	1.236	96.5	96.5	NO
20	13C-1,2,3,4,7,8-HxCDD	9.02e5	1.29e6	1.24	1.26	NO	0.8739	34.22	34.21	NO	1.014	1.014	86.0	86.0	NO
21	13C-1,2,3,6,7,8-HxCDD	1.19e6	1.20e6	1.24	1.25	NO	1.0458	34.32	34.32	NO	1.017	1.017	94.4	94.4	NO



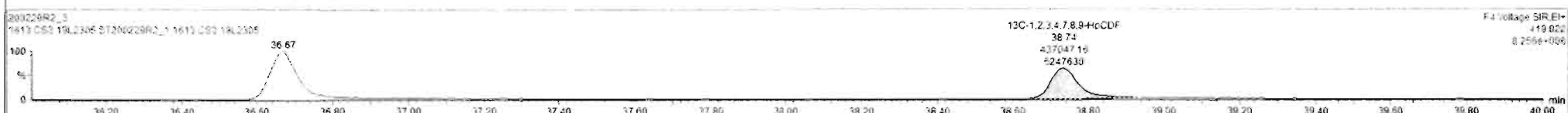
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200229R2_3 CAP NUM

11:30 AM

200229R2_3 - ST200229R2_1 1613 CS3 19L2305 - 1613 CS3 19L2305

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1	1,2,3,7,8-TCDD	1.83e5	1.77e6	0.77	0.78	NO	0.5881	25.75	25.75	NO	1.001	1.001	9.24	93.4	NO
2	1,2,3,7,8-PeCDD	5.56e5	1.31e6	0.63	0.62	NO	0.9723	30.86	30.88	NO	1.001	1.000	43.5	87.0	NO
3	1,2,3,4,7,8-HxCDD	4.65e5	9.03e5	1.24	1.23	NO	1.0708	34.22	34.22	NO	1.000	1.000	48.1	96.2	NO
4	1,2,3,6,7,8-HxCDD	5.39e5	1.19e6	1.24	1.23	NO	0.9211	34.32	34.32	NO	1.000	1.000	49.4	98.8	NO
5	1,2,3,7,8,9-HxCDD	4.58e5	1.03e6	1.24	1.25	NO	0.9162	34.62	34.60	NO	1.001	1.001	48.2	96.4	NO
6	1,2,3,4,6,7,8-HpCDD	2.63e5	7.87e5	1.04	1.02	NO	0.9231	38.10	38.11	NO	1.000	1.001	56.6	105	NO
7	OCDD	7.15e5	1.50e6	0.89	0.87	NO	0.9745	41.21	41.22	NO	1.000	1.000	98.1	98.1	NO
8	1,2,3,7,8-TCDF	1.85e5	2.24e6	0.77	0.75	NO	0.6025	24.89	24.81	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	8.08e5	1.75e6	1.55	1.54	NO	0.9074	29.54	29.54	NO	1.001	1.000	48.7	99.3	NO
10	1,2,3,4,7,8-HxCDF	8.19e5	1.74e6	1.55	1.54	NO	0.9516	30.55	30.53	NO	1.001	1.000	49.4	98.6	NO
11	1,2,3,4,7,8-HxCDF	5.62e5	1.17e6	1.24	1.25	NO	0.8623	33.35	33.37	NO	1.000	1.001	55.7	111	NO
12	1,2,3,6,7,8-HxCDF	6.65e5	1.39e6	1.23	1.19	NO	0.8414	33.49	33.48	NO	1.000	1.000	57.0	114	NO
13	1,2,3,4,6,7,8-HxCDF	6.05e5	1.26e6	1.24	1.20	NO	0.8962	34.07	34.05	NO	1.001	1.000	53.6	107	NO
14	1,2,3,7,8,9-HxCDF	4.68e5	1.02e6	1.24	1.19	NO	0.9578	34.92	34.95	NO	1.000	1.001	53.1	106	NO
15	1,2,3,4,6,7,8-HpCDF	4.44e5	9.60e5	1.04	0.99	NO	0.8511	36.71	36.68	NO	1.001	1.000	54.4	109	NO
16	1,2,3,4,7,8,9-HpCDF	2.93e5	6.31e5	1.04	0.99	NO	0.9799	38.74	38.75	NO	1.000	1.000	57.0	114	NO
17	OCDF	7.48e5	1.72e6	0.89	0.89	NO	0.8955	41.39	41.40	NO	1.000	1.000	108	108	NO
18	13C-1,2,3,7,8-TCDD	1.77e6	1.50e6	0.77	0.76	NO	1.1985	25.71	25.72	NO	1.026	1.026	98.2	98.2	NO
19	13C-1,2,3,7,8-PeCDD	1.31e6	1.50e6	0.63	0.63	NO	0.9687	30.84	30.83	NO	1.230	1.230	96.5	96.5	NO
20	13C-1,2,3,4,7,8-HxCDD	8.03e5	1.20e6	1.24	1.26	NO	0.8738	34.22	34.21	NO	1.014	1.014	88.0	88.0	NO
21	13C-1,2,3,6,7,8-HxCDD	1.19e6	1.20e6	1.24	1.25	NO	1.0458	34.32	34.32	NO	1.017	1.017	94.4	94.4	NO



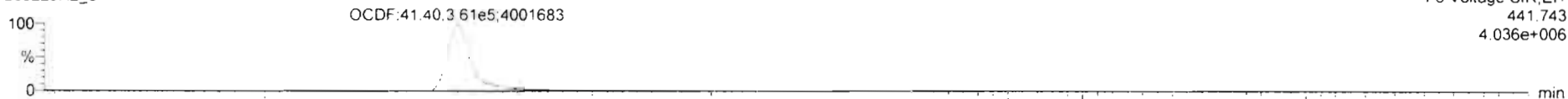
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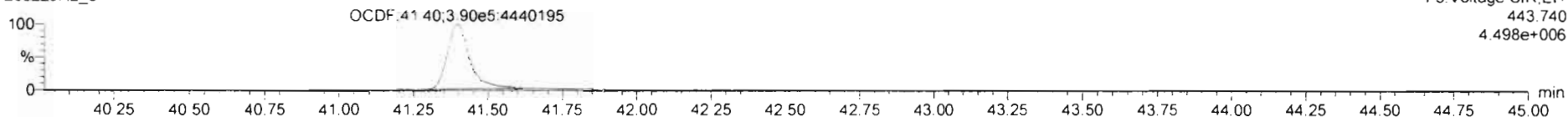
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200229R2_3



200229R2_3

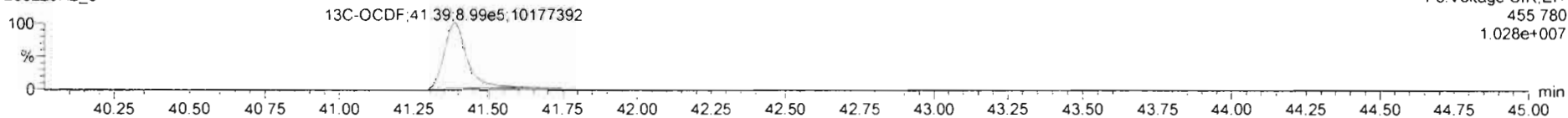


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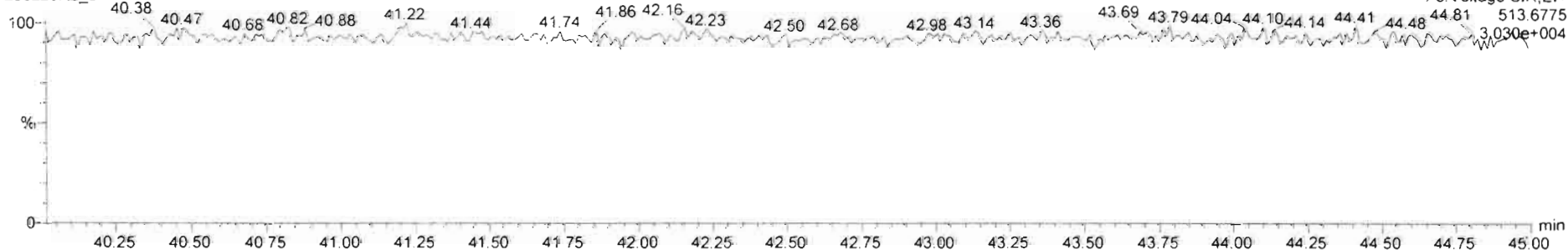


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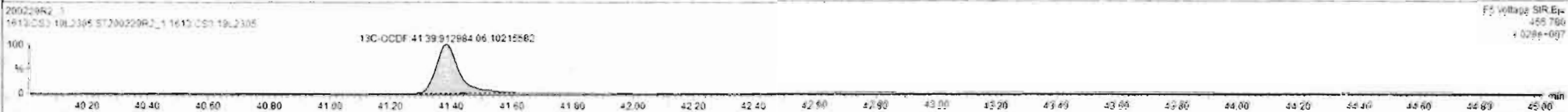
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200229R2_3



200229R2_3 - ST200229R2_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	S Resp	Pred RA	RA	ny	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.63e5	1.77e6	0.77	0.78	NO	0.9081	25.75	25.75	NO	1.001	1.001	9.34	93.4	NO
2	1,2,3,7,8-PeCDD	5.56e5	1.31e6	0.63	0.62	NO	0.9723	30.86	30.86	NO	1.001	1.000	43.5	67.0	NO
3	1,2,3,4,7,8-HxCDD	4.65e5	9.03e5	1.24	1.23	NO	1.0708	34.22	34.22	NO	1.000	1.000	48.1	96.2	NO
4	1,2,3,6,7,8-HxCDD	5.19e5	1.19e6	1.24	1.21	NO	0.9211	34.32	34.32	NO	1.000	1.000	49.4	98.8	NO
5	1,2,3,7,8,9-HxCDD	4.56e5	1.03e6	1.24	1.25	NO	0.9182	34.62	34.60	NO	1.001	1.001	46.2	96.4	NO
6	1,2,3,4,6,7,8-HpCDD	3.63e5	7.87e5	1.04	1.02	NO	0.9231	36.10	36.11	NO	1.000	1.001	50.0	100	NO
7	OCDD	7.15e5	1.50e6	0.89	0.87	NO	0.9748	41.21	41.22	NO	1.000	1.000	98.1	98.1	NO
8	2,3,7,8-TCDF	1.85e5	2.24e6	0.77	0.75	NO	0.8020	24.80	24.81	NO	1.001	1.001	10.3	102	NO
9	1,2,3,7,8-PeCDF	8.08e5	1.75e6	1.55	1.54	NO	0.9074	29.54	29.54	NO	1.001	1.000	49.7	99.0	NO
10	1,2,3,4,7,8-PeCDF	6.19e5	1.74e6	1.55	1.54	NO	0.9516	30.55	30.53	NO	1.001	1.000	45.4	90.8	NO
11	1,2,3,4,7,8-HxCDF	5.62e5	1.17e6	1.24	1.25	NO	0.9623	33.35	33.37	NO	1.000	1.001	56.7	111	NO
12	1,2,3,6,7,8-HxCDF	6.05e5	1.39e6	1.24	1.15	NO	0.8414	33.49	33.48	NO	1.000	1.000	57.0	114	NO
13	1,2,3,4,6,7,8-HpCDF	6.05e5	1.26e6	1.24	1.20	NO	0.8962	34.07	34.05	NO	1.001	1.000	53.8	107	NO
14	1,2,3,7,8,9-HxCDF	4.66e5	1.02e6	1.24	1.15	NO	0.8578	34.82	34.85	NO	1.000	1.001	53.1	106	NO
15	1,2,3,4,6,7,8-HpCDF	4.44e5	9.80e5	1.04	0.95	NO	0.8511	36.71	36.68	NO	1.001	1.000	54.4	108	NO
16	1,2,3,4,7,8,9-HpCDF	3.53e5	6.21e5	1.04	0.95	NO	0.8799	36.74	36.75	NO	1.000	1.000	57.0	114	NO
17	OCDF	7.45e5	1.72e6	0.89	0.89	NO	0.8055	41.39	41.40	NO	1.000	1.000	108	108	NO
18	13C-2,3,7,8-TCDD	1.77e6	1.50e6	0.77	0.75	NO	1.1965	25.71	25.72	NO	1.026	1.026	98.2	98.2	NO
19	13C-1,2,3,7,8-PeCDD	1.31e6	1.50e6	0.63	0.63	NO	0.9667	30.84	30.83	NO	1.230	1.230	90.0	90.0	NO
20	13C-1,2,3,4,7,8-HxCDD	9.03e5	1.20e6	1.24	1.28	NO	0.8735	34.22	34.21	NO	1.014	1.014	86.0	86.0	NO
21	13C-1,2,3,6,7,8-HxCDD	1.19e6	1.20e6	1.24	1.25	NO	1.0458	34.32	34.32	NO	1.017	1.017	94.4	94.4	NO



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200229R2_3 C:\AD\MSMA

11:30 AM

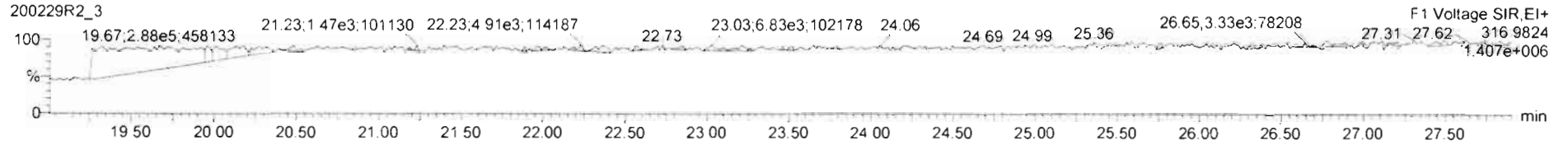
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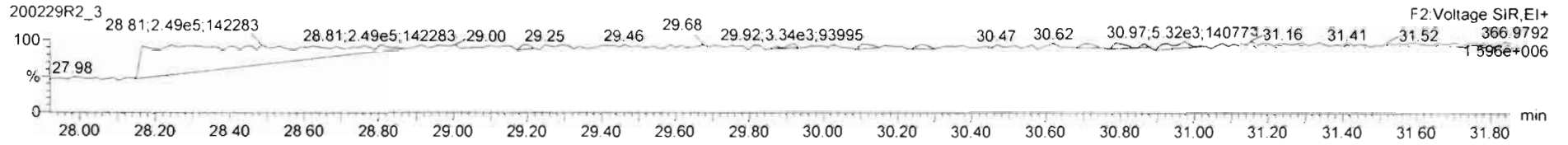
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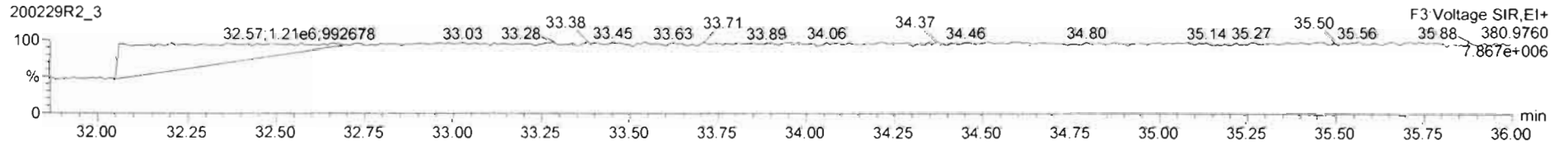
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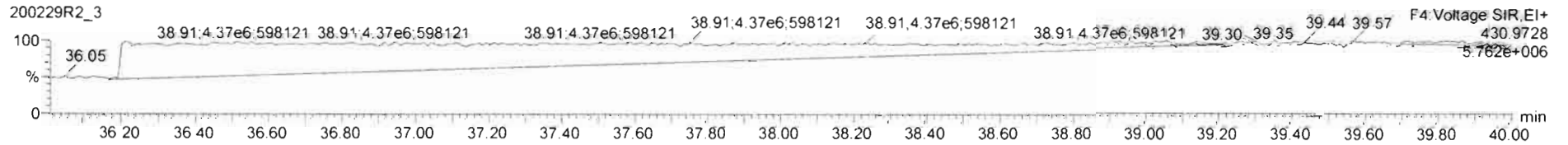
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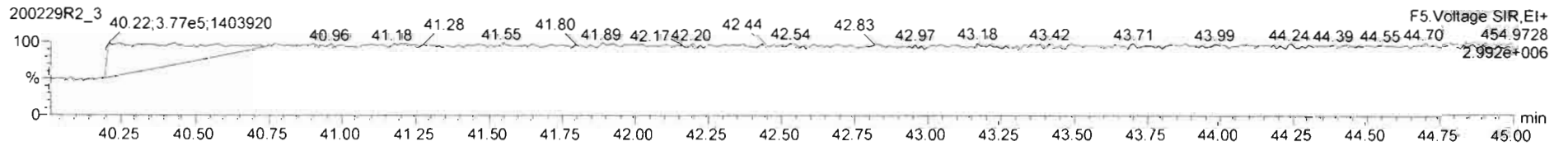
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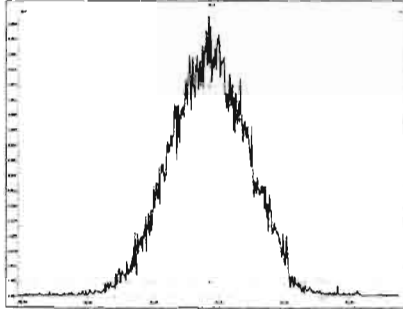


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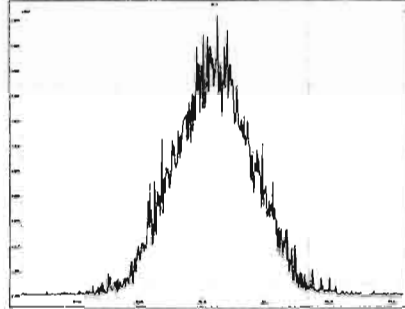


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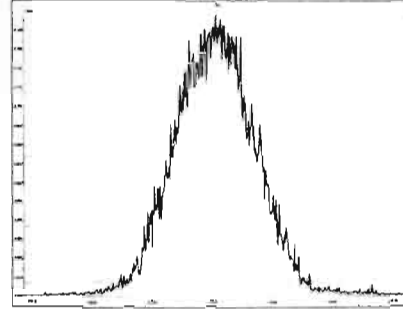
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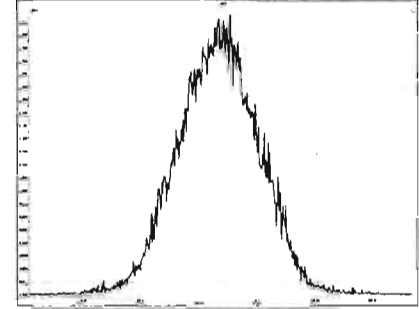
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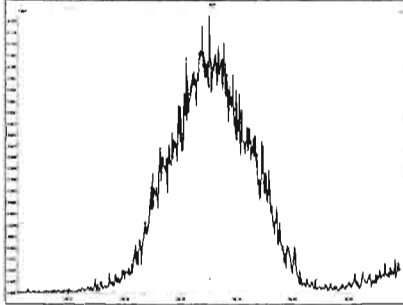
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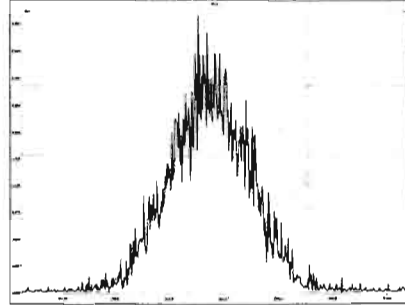
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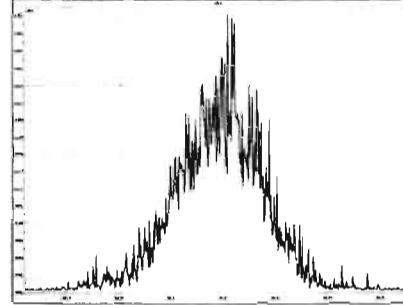
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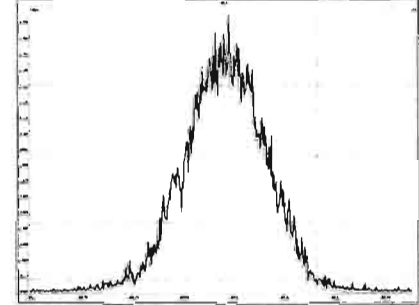
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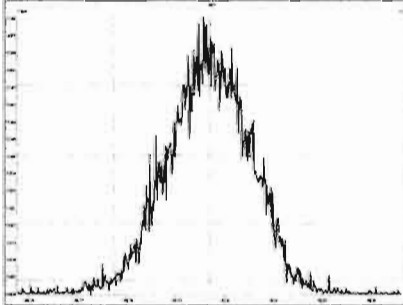
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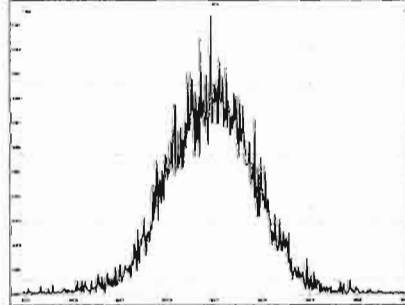
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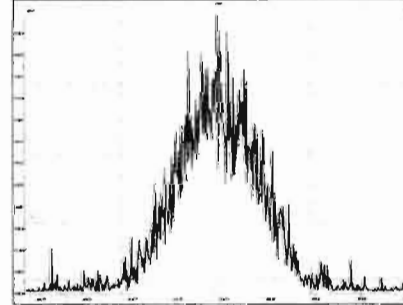
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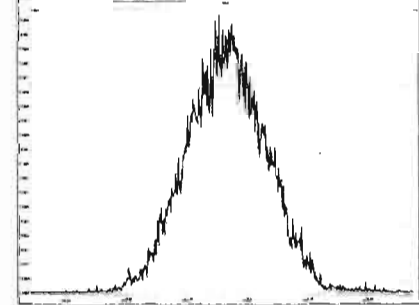
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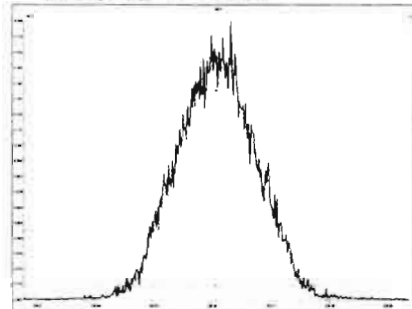


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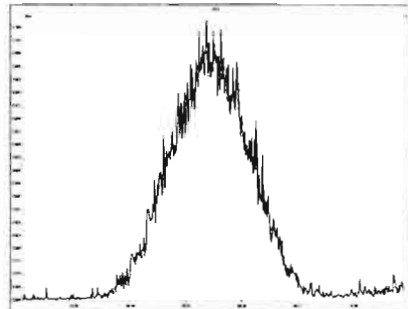


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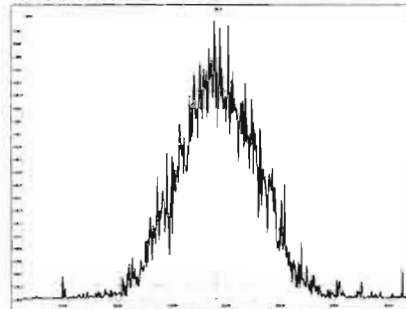
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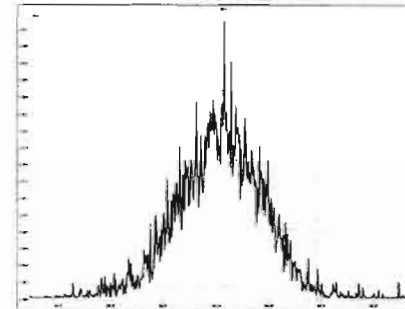
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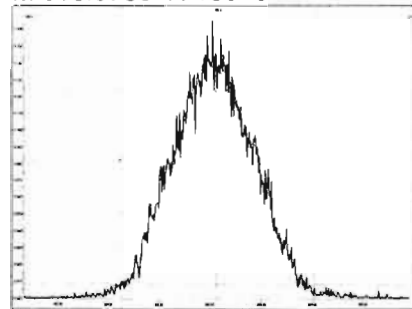
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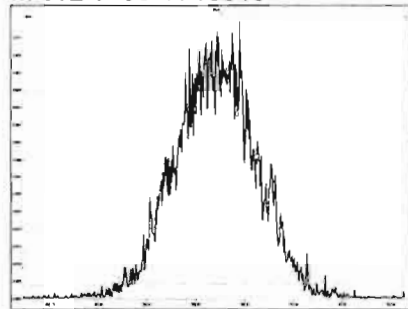
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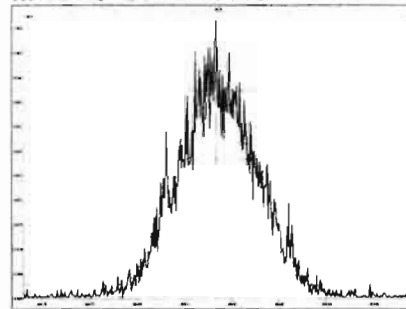
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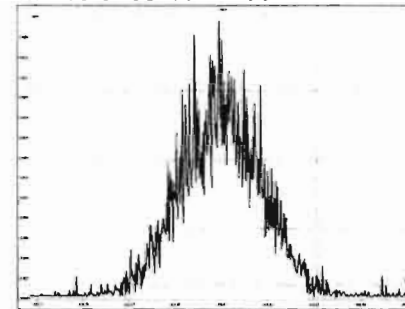
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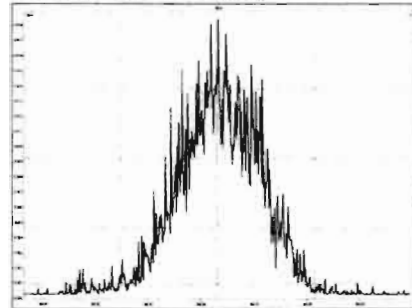
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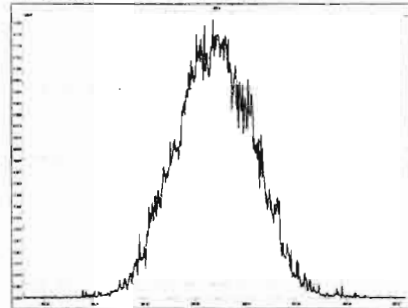
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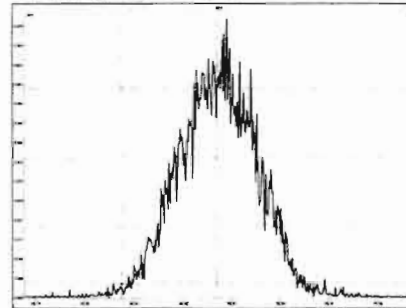
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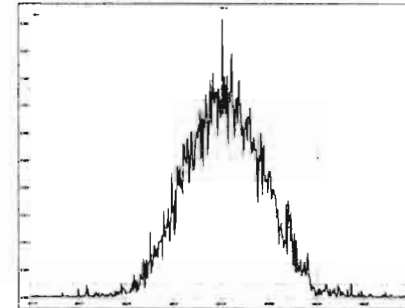
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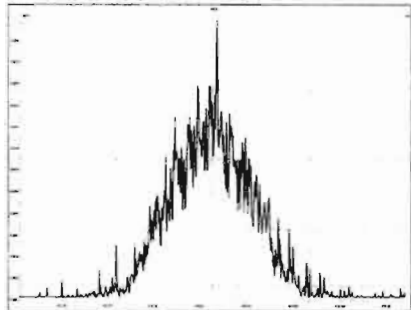
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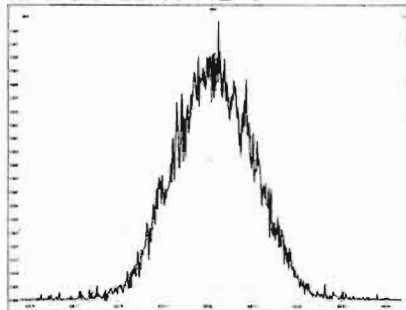
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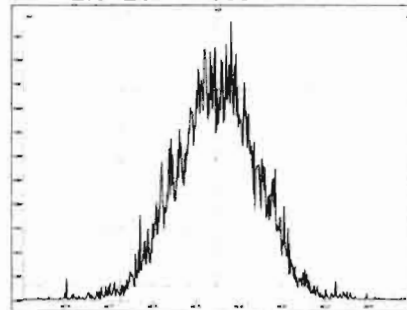
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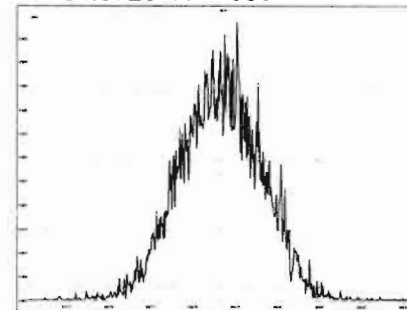
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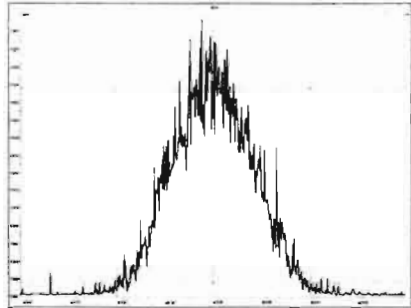
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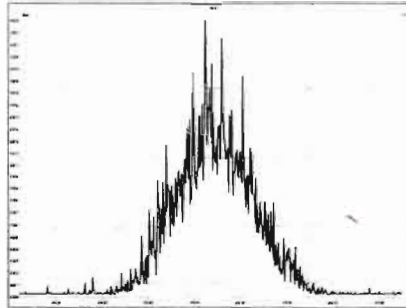
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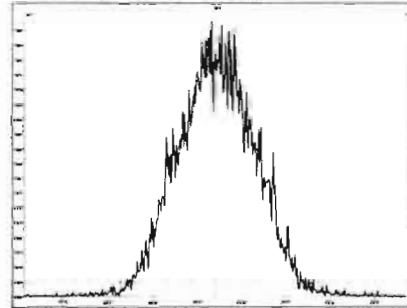
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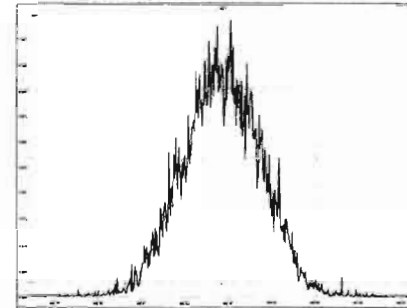
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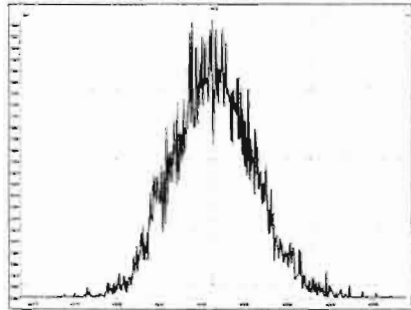
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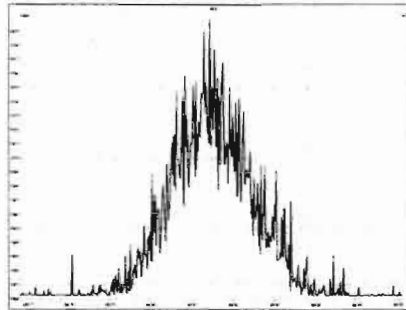
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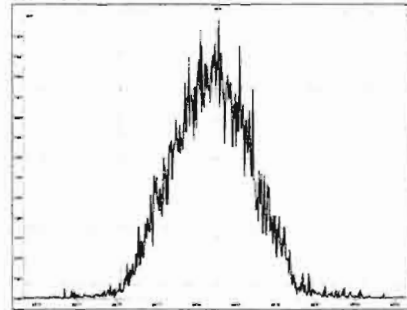
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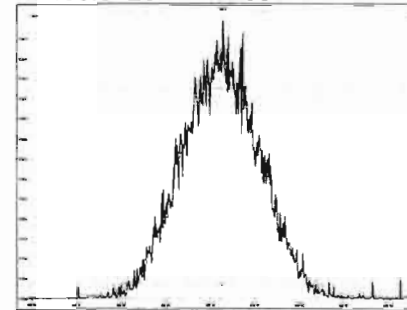
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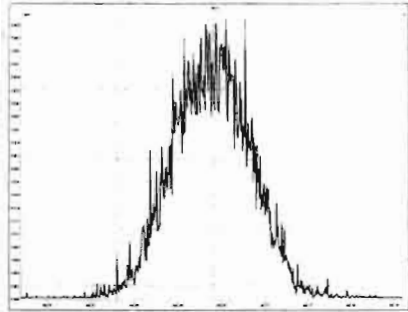


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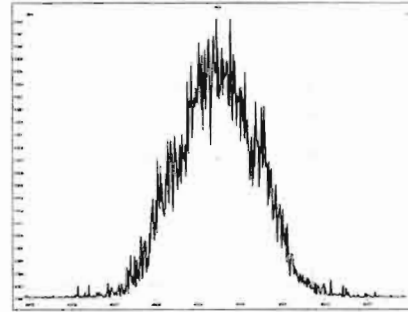


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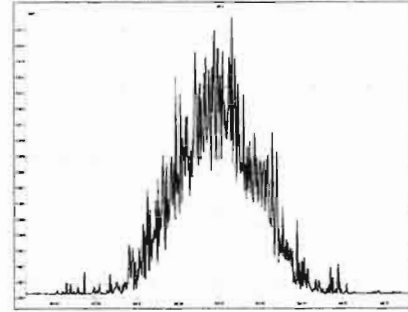
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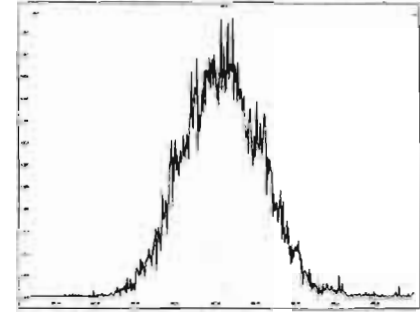
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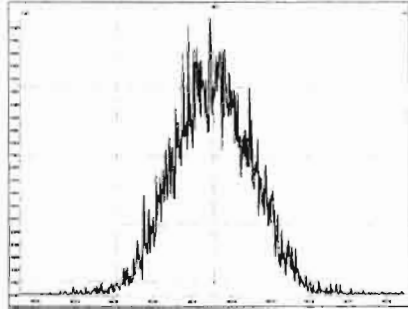
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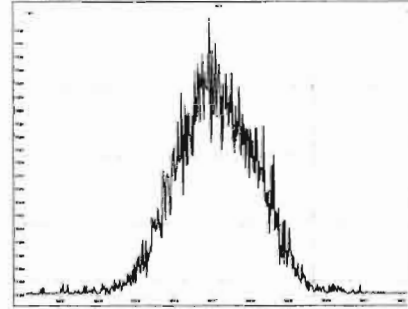
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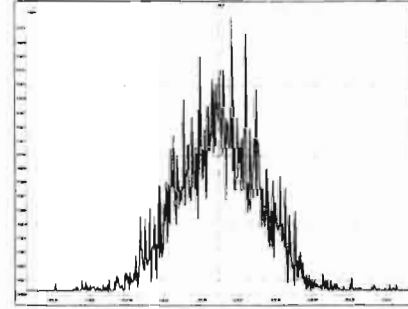
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M 516.9697 R 11991



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200315R2-1

Reviewed By: CT 03/19/2020
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"/> V
- Samples within 12 hour clock?	(Y)	N
- Bottle position verified?	<u>GRB</u>	<input type="checkbox"/>

Mass resolution >

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

Intergrated peaks display correctly?

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

INST. VENTED & STOPPED ANALYZING MASSES
 DURING END RES CHECK

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-2.qld

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 09:13:11 Pacific Daylight Time

GPB 03/16/2020
C7 03/16/2020

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

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	6.24e4	6.96e5	0.78	NO	0.983	25.77	25.75	NO	1.001	1.001	9.1243	91.2	NO
2	2 1,2,3,7,8-PeCDD	2.15e5	5.12e5	0.62	NO	0.921	31.04	31.03	NO	1.001	1.000	45.537	91.1	NO
3	3 1,2,3,4,7,8-HxCDD	1.88e5	3.59e5	1.24	NO	1.13	34.44	34.44	NO	1.000	1.000	46.298	92.6	NO
4	4 1,2,3,6,7,8-HxCDD	1.98e5	4.26e5	1.23	NO	0.984	34.53	34.54	NO	1.000	1.000	47.121	94.2	NO
5	5 1,2,3,7,8,9-HxCDD	1.86e5	4.12e5	1.24	NO	0.967	34.81	34.81	NO	1.000	1.000	46.581	93.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.39e5	2.99e5	1.02	NO	1.01	38.27	38.28	NO	1.000	1.001	46.191	92.4	NO
7	7 OCDD	2.74e5	5.94e5	0.87	NO	1.05	41.48	41.49	NO	1.000	1.000	87.892	87.9	NO
8	8 2,3,7,8-TCDF	7.27e4	9.16e5	0.77	NO	0.915	24.77	24.76	NO	1.001	1.001	8.6764	86.8	NO
9	9 1,2,3,7,8-PeCDF	3.12e5	7.04e5	1.55	NO	0.959	29.68	29.67	NO	1.001	1.000	46.230	92.5	NO
10	10 2,3,4,7,8-PeCDF	3.25e5	6.98e5	1.57	NO	1.00	30.73	30.71	NO	1.001	1.000	46.457	92.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.29e5	4.77e5	1.23	NO	1.04	33.56	33.59	NO	1.000	1.001	46.285	92.6	NO
12	12 1,2,3,6,7,8-HxCDF	2.47e5	5.14e5	1.23	NO	1.01	33.70	33.70	NO	1.000	1.000	47.491	95.0	NO
13	13 2,3,4,6,7,8-HxCDF	2.45e5	4.83e5	1.21	NO	1.09	34.29	34.28	NO	1.001	1.001	46.563	93.1	NO
14	14 1,2,3,7,8,9-HxCDF	1.95e5	4.04e5	1.23	NO	1.03	35.13	35.15	NO	1.000	1.001	46.977	94.0	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.81e5	3.75e5	1.01	NO	1.05	36.88	36.87	NO	1.001	1.001	46.061	92.1	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.42e5	2.49e5	1.01	NO	1.21	38.92	38.93	NO	1.000	1.000	47.177	94.4	NO
17	17 OCDF	3.16e5	7.24e5	0.88	NO	0.947	41.64	41.65	NO	1.000	1.000	92.150	92.1	NO
18	18 13C-2,3,7,8-TCDD	6.96e5	5.74e5	0.78	NO	1.18	25.74	25.74	NO	1.029	1.029	102.44	102	NO
19	19 13C-1,2,3,7,8-PeCDD	5.12e5	5.74e5	0.62	NO	0.864	30.92	31.02	NO	1.236	1.240	103.35	103	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.59e5	4.76e5	1.27	NO	0.754	34.43	34.43	NO	1.014	1.014	99.855	99.9	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.26e5	4.76e5	1.26	NO	0.925	34.54	34.53	NO	1.017	1.017	96.736	96.7	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.12e5	4.76e5	1.24	NO	0.829	34.80	34.80	NO	1.025	1.025	104.24	104	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.99e5	4.76e5	1.04	NO	0.598	38.26	38.26	NO	1.127	1.127	104.99	105	NO
24	24 13C-OCDD	5.94e5	4.76e5	0.90	NO	0.571	41.41	41.48	NO	1.219	1.221	218.22	109	NO
25	25 13C-2,3,7,8-TCDF	9.16e5	8.46e5	0.78	NO	1.09	24.76	24.75	NO	0.990	0.989	99.357	99.4	NO
26	26 13C-1,2,3,7,8-PeCDF	7.04e5	8.46e5	1.58	NO	0.876	29.59	29.66	NO	1.183	1.186	94.952	95.0	NO
27	27 13C-2,3,4,7,8-PeCDF	6.98e5	8.46e5	1.58	NO	0.844	30.60	30.70	NO	1.223	1.227	97.795	97.8	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.77e5	4.76e5	0.51	NO	1.00	33.58	33.56	NO	0.989	0.988	100.01	100	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.14e5	4.76e5	0.51	NO	1.12	33.69	33.69	NO	0.992	0.992	96.427	96.4	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.83e5	4.76e5	0.51	NO	1.04	34.27	34.26	NO	1.009	1.009	97.872	97.9	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.04e5	4.76e5	0.52	NO	0.873	35.14	35.13	NO	1.035	1.035	97.112	97.1	NO

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-2.qld

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 09:13:11 Pacific Daylight Time

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	3.75e5	4.76e5	0.44	NO	0.771	36.85	36.85	NO	1.085	1.085	102.13	102	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.49e5	4.76e5	0.44	NO	0.519	38.94	38.92	NO	1.147	1.146	100.84	101	NO
34	13C-OCDF	7.24e5	4.76e5	0.88	NO	0.696	41.59	41.64	NO	1.225	1.226	218.25	109	NO
35	37Cl-2,3,7,8-TCDD	6.38e4	5.74e5			1.17	25.75	25.75	NO	1.029	1.029	9.4652	94.7	NO
36	13C-1,2,3,4-TCDD	5.74e5	5.74e5	0.80	NO	1.00	25.05	25.02	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	8.46e5	8.46e5	0.78	NO	1.00	23.19	23.09	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	4.76e5	4.76e5	0.52	NO	1.00	33.88	33.96	NO	1.000	1.000	100.00	100	YES ^k
39	Total Tetra-Dioxins		6.96e5			0.983	24.62		NO	0.000		77.080		NO
40	Total Penta-Dioxins		5.12e5			0.921	29.96		NO	0.000		198.76		NO
41	Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		230.82		NO
42	Total Hepta-Dioxins		2.99e5			1.01	37.64		NO	0.000		126.56		NO
43	Total Tetra-Furans		9.16e5			0.915	23.61		NO	0.000		46.471		NO
44	1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		93.984		NO
45	Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		159.94		NO
46	Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		264.15		NO
47	Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		93.238		NO

Dataset: Untitled

Last Altered: Monday, March 16, 2020 11:51:37 Pacific Daylight Time
Printed: Monday, March 16, 2020 11:51:49 Pacific Daylight Time

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

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

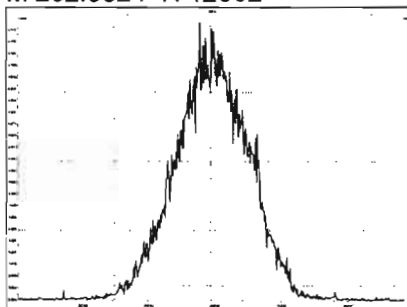
	Name	ID	Acq.Date	Acq.Time
1	200315R2_1	SOLVENT BLANK	16-Mar-20	00:01:01
2	200315R2_2	ST200315R2_1 1613 CS3 19L2305	16-Mar-20	00:47:18
3	200315R2_3	SOLVENT BLANK	16-Mar-20	01:34:51
4	200315R2_4	2000144-09 PDI-081SC-A-08-09-191002 14.98	16-Mar-20	02:22:25
5	200315R2_5	2000144-10 PDI-081SC-A-09-10-191002 16.34	16-Mar-20	03:10:00
6	200315R2_6	2000144-11 PDI-082SC-A-04-05-191002 17.76	16-Mar-20	03:57:33
7	200315R2_7	2000144-12 PDI-082SC-A-05-06-191002 17.56	16-Mar-20	04:45:07
8	200315R2_8	2000144-13 PDI-084SC-A-01-02-191002 20.48	16-Mar-20	05:32:42
9	200315R2_9	2000144-14 PDI-084SC-A-02-03-191002 20.28	16-Mar-20	06:20:14
10	200315R2_10	1903737-10RE1@2X PDI-055SC-B-02-04-191...	16-Mar-20	07:07:47
11	200315R2_11	1903736-10RE2 PDI-079SC-B-02-04-191014 ...	16-Mar-20	07:55:21
12	200315R2_12	1903736-10RE2@5X PDI-079SC-B-02-04-191...	16-Mar-20	08:42:54
13	200315R2_13	2000142-03@5X PDI-014SC-A-03-04-191003 ...	16-Mar-20	09:30:28

Resolution Check Report

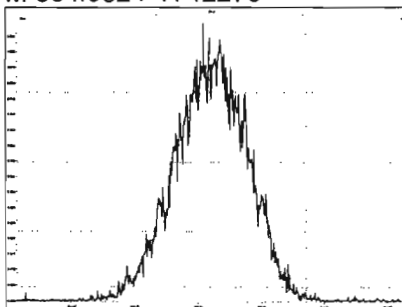
MassLynx 4.1 SCN815

Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time

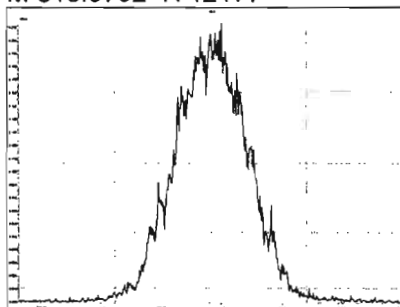
M 292.9824 R 12652



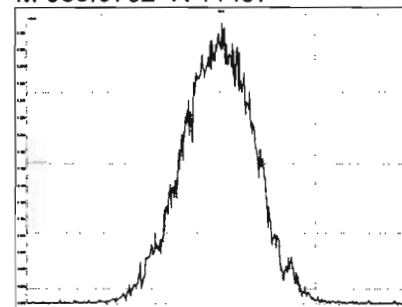
M 304.9824 R 12278



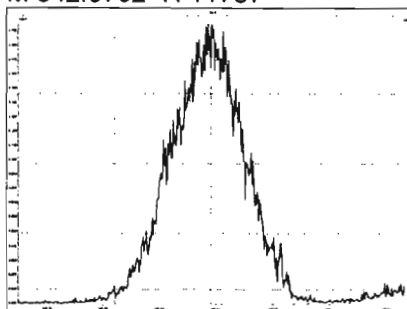
M 318.9792 R 12177



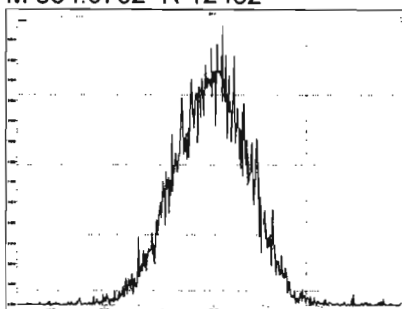
M 330.9792 R 11467



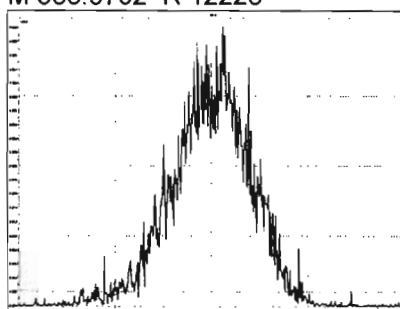
M 342.9792 R 11737



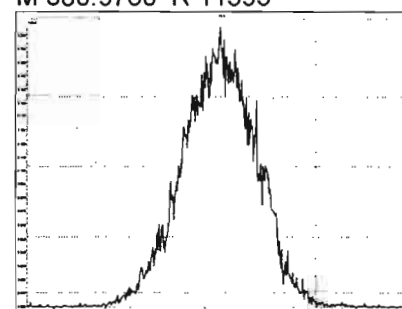
M 354.9792 R 12462



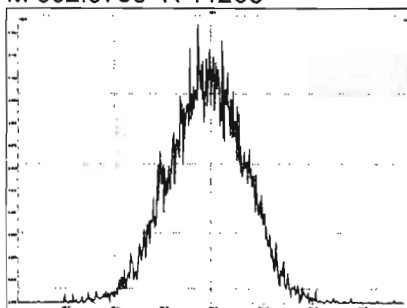
M 366.9792 R 12226



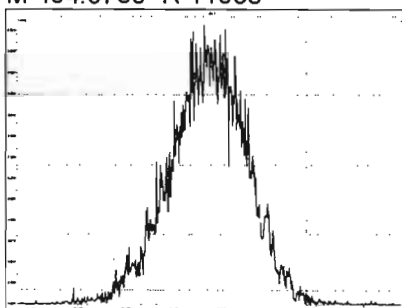
M 380.9760 R 11393



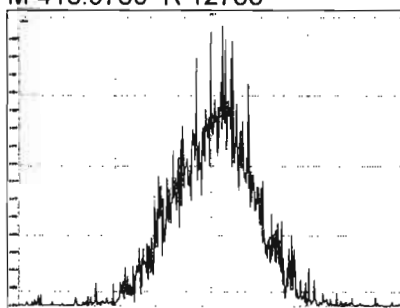
M 392.9760 R 11235



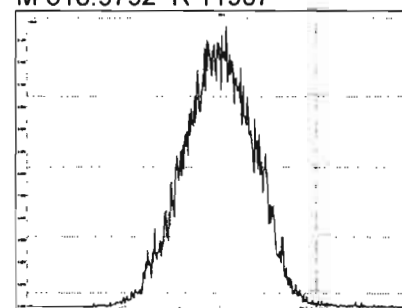
M 404.9760 R 11086



M 416.9760 R 12788

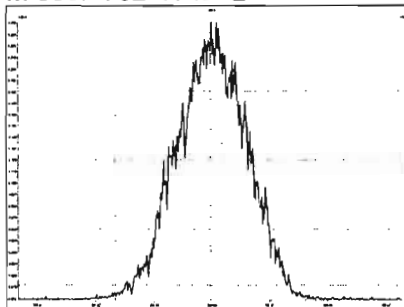


M 318.9792 R 11907

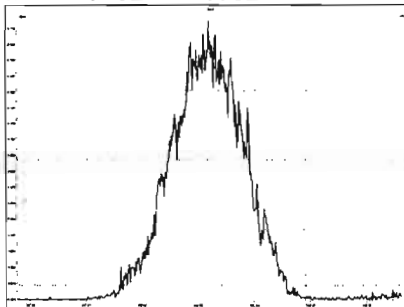


Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time

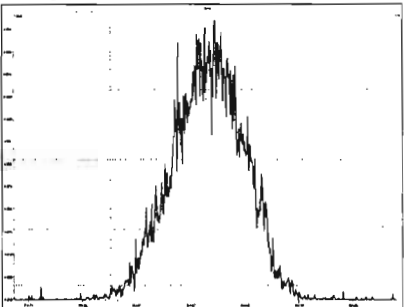
M 330.9792 R 12225



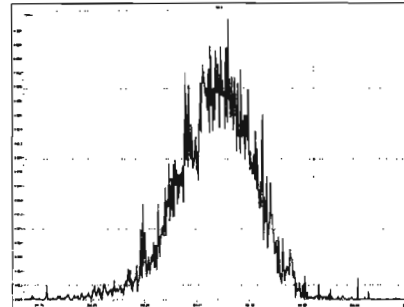
M 342.9792 R 11962



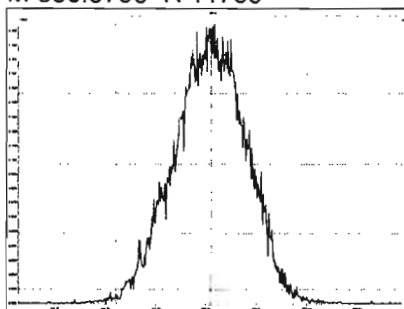
M 354.9792 R 13021



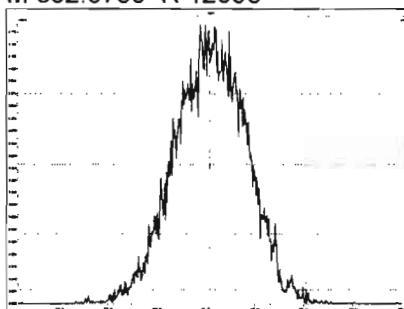
M 366.9792 R 12136



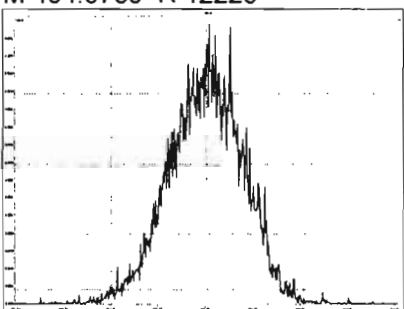
M 380.9760 R 11765



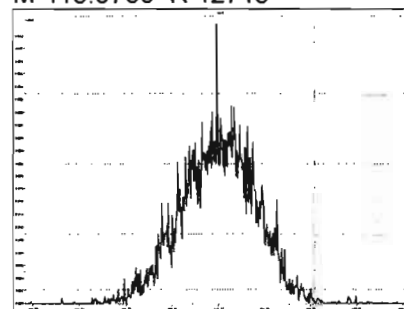
M 392.9760 R 12056



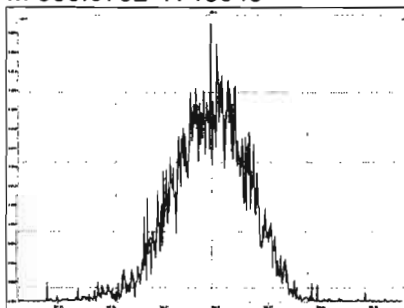
M 404.9760 R 12225



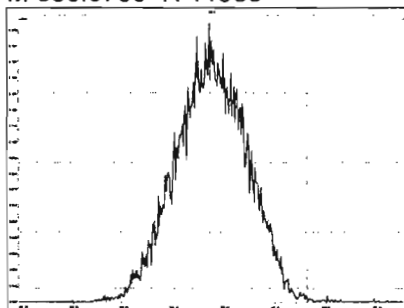
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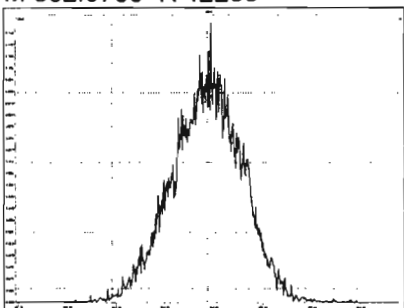
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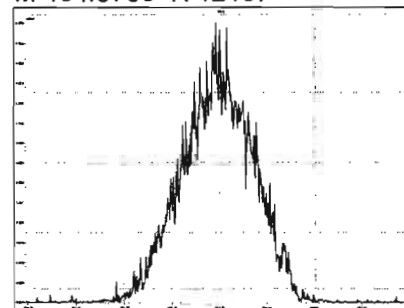
M 380.9760 R 11933



M 392.9760 R 12233

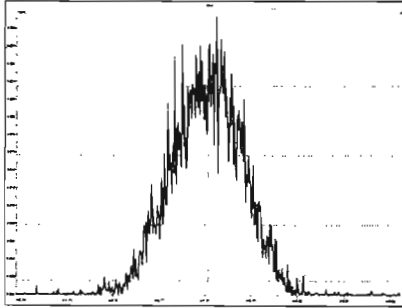


M 404.9760 R 12107

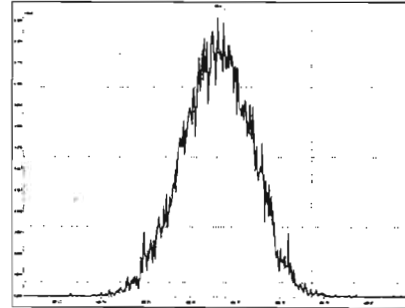


Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time

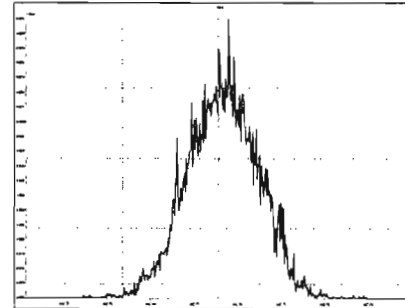
M 416.9760 R 12442



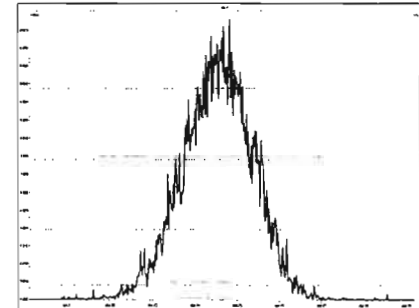
M 430.9728 R 12407



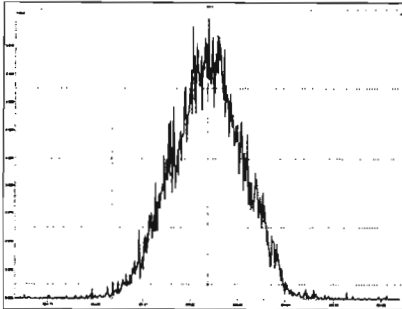
M 442.9728 R 12376



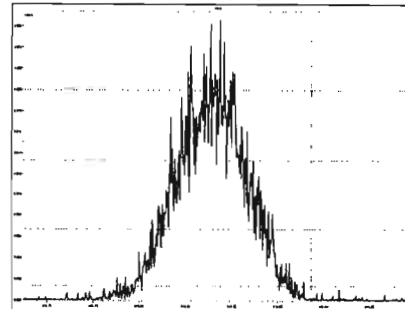
M 454.9728 R 11852



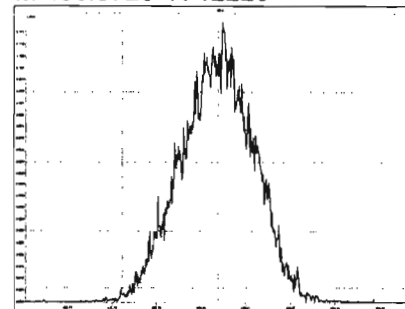
M 404.9760 R 12408



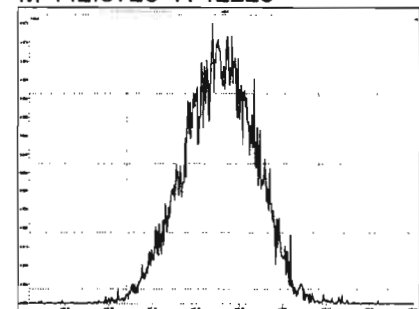
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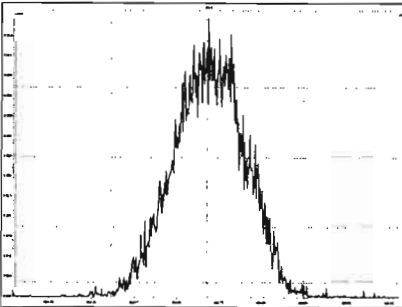
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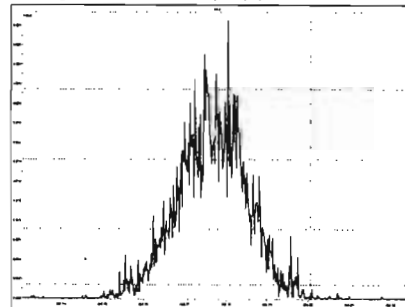
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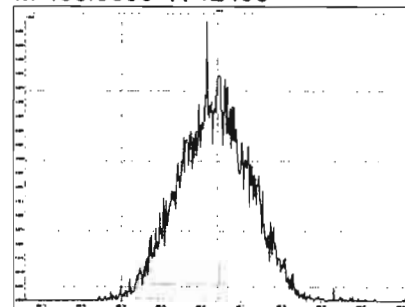
M 454.9728 R 12107



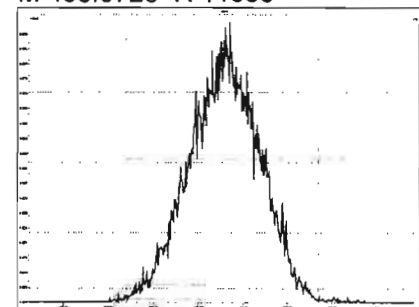
M 466.9728 R 13700



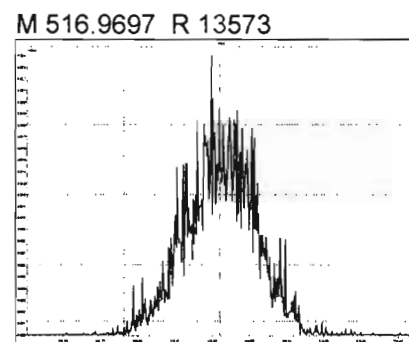
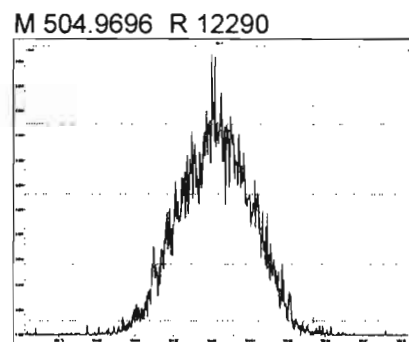
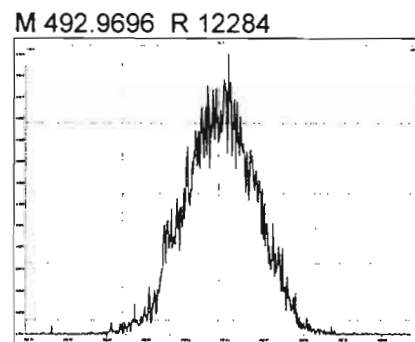
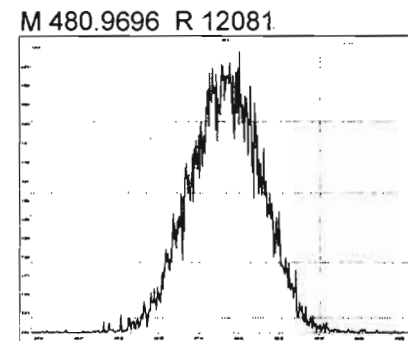
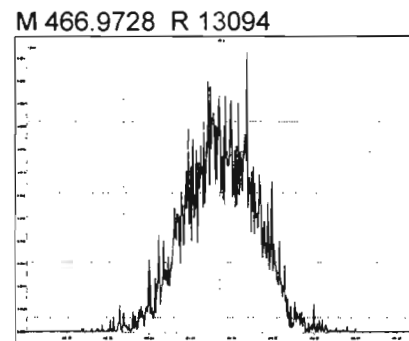
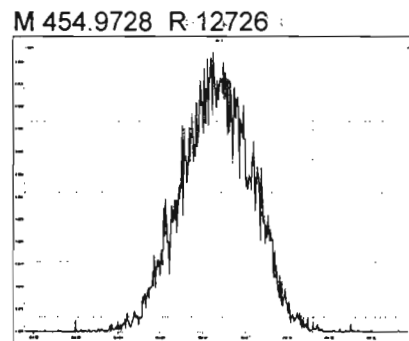
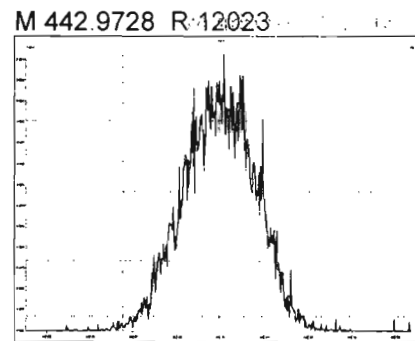
M 480.9696 R 12490



M 430.9728 R 11850



Printed: Monday, March 16, 2020 00:00:59 Pacific Daylight Time



Dataset: U:\VG12.PRO\Results\200315R2\200315R2-CPSM.qld

Last Altered: Monday, March 16, 2020 07:55:24 Pacific Daylight Time

Printed: Monday, March 16, 2020 07:56:44 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01

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

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.41
2	2 1,2,8,9-TCDD (Last)	26.80
3	3 1,2,4,7,9-PeCDD (First)	28.71
4	4 1,2,3,8,9-PeCDD (Last)	31.41
5	5 1,2,4,6,7,9-HxCDD (First)	32.96
6	6 1,2,3,7,8,9-HxCDD (Last)	34.81
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.24
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.28
9	9 1,3,6,8-TCDF (First)	19.39
10	10 1,2,8,9-TCDF (Last)	26.95
11	11 1,3,4,6,8-PeCDF (First)	26.92
12	12 1,2,3,8,9-PeCDF (Last)	31.67
13	13 1,2,3,4,6,8-HxCDF (First)	32.39
14	14 1,2,3,7,8,9-HxCDF (Last)	35.15
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.87
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.93

Dataset: U:\VG12.PRO\Results\200315R2\200315R2-CPSM.qld

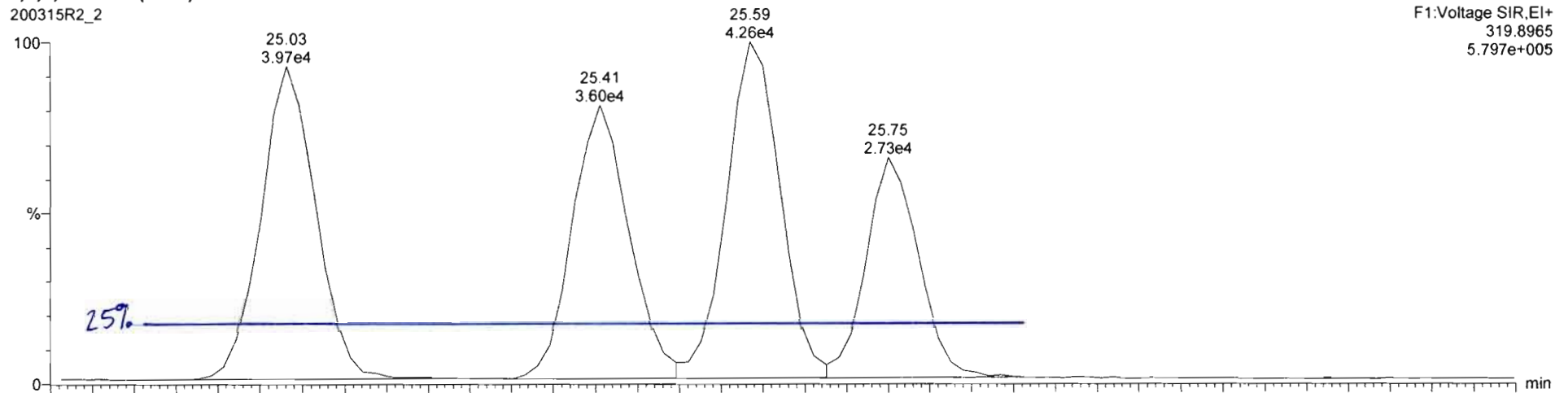
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GRB 03/16/2020

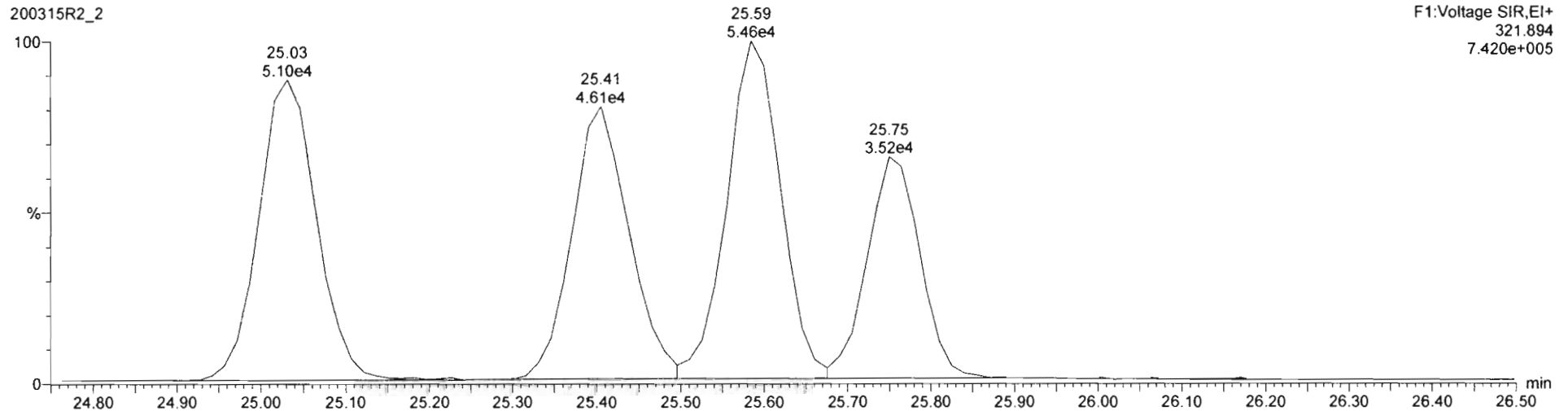
Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200315R2_2



200315R2_2



Dataset: Untitled

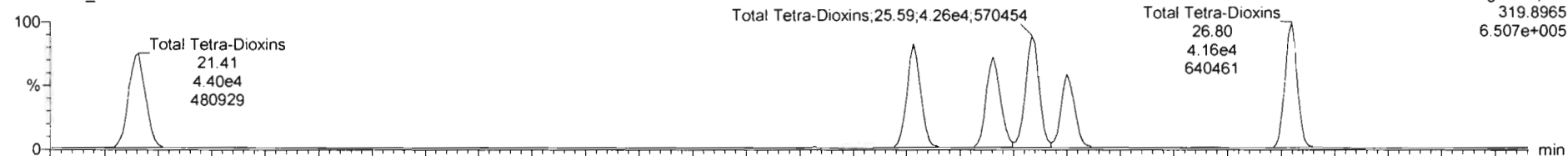
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Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

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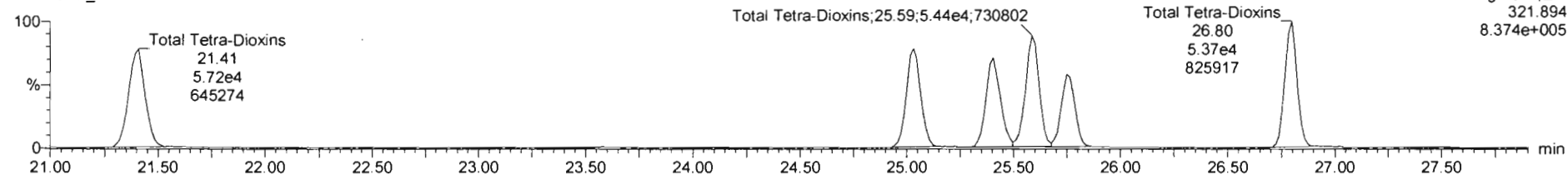
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2,3,7,8-TCDD

200315R2_2

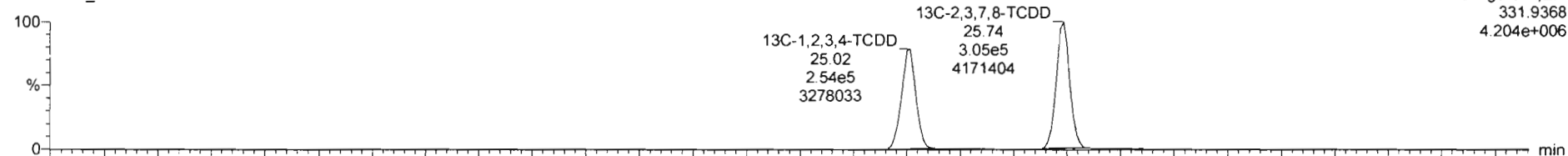


200315R2_2

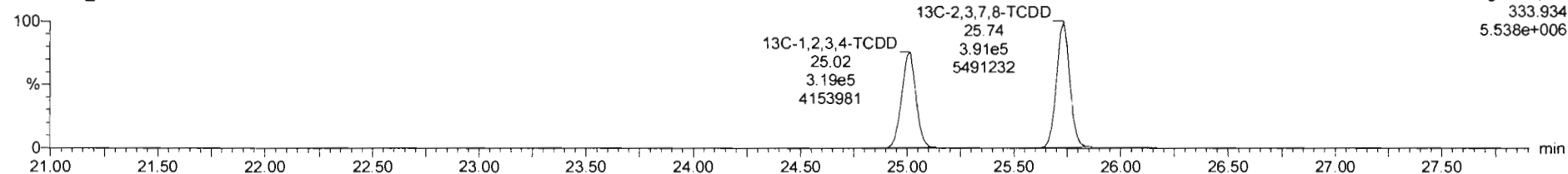


13C-2,3,7,8-TCDD

200315R2_2



200315R2_2



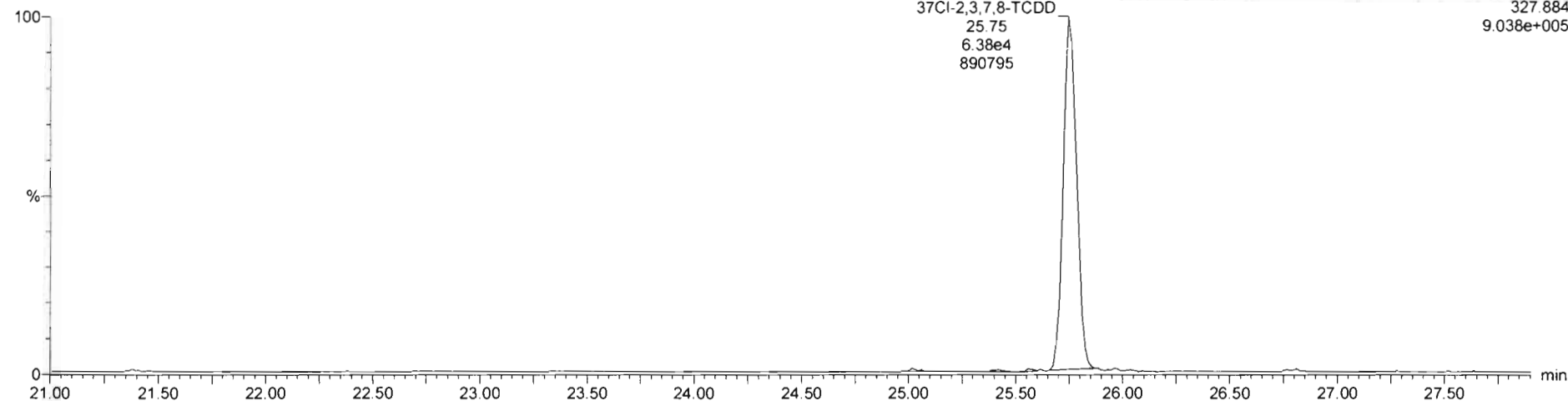
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Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Sample Name: 200315R2_2; Date: 16-Mar-2020; Time: 00:47:18; ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

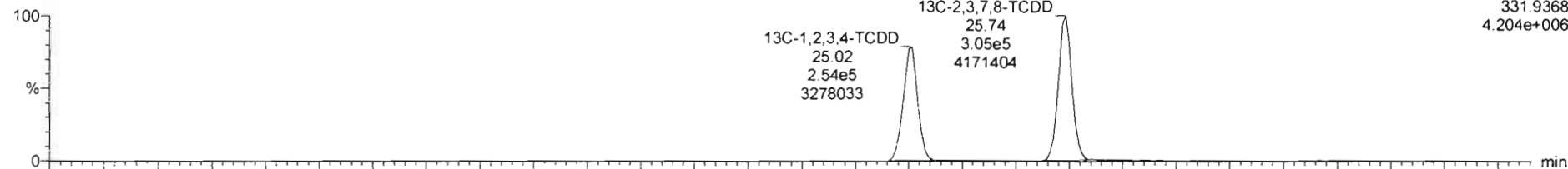
37Cl-2,3,7,8-TCDD

200315R2_2

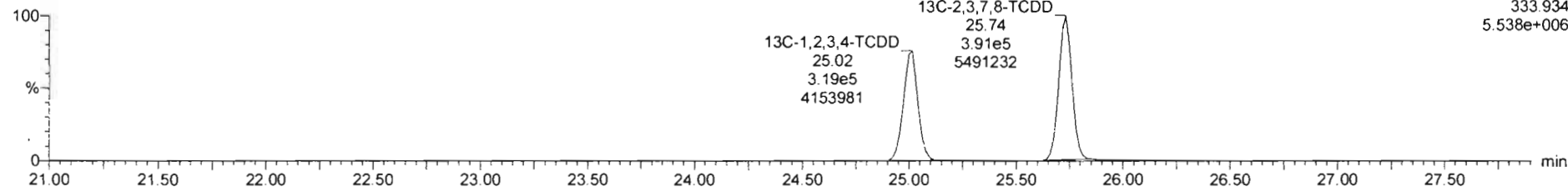


13C-1,2,3,4-TCDD

200315R2_2



200315R2_2



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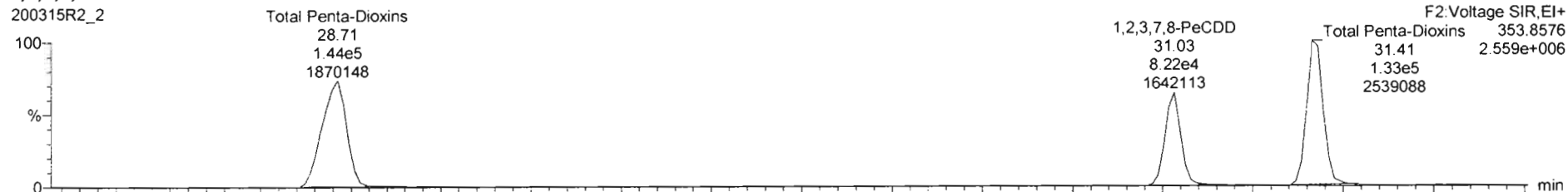
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Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Last Altered:
Printed:
Mr

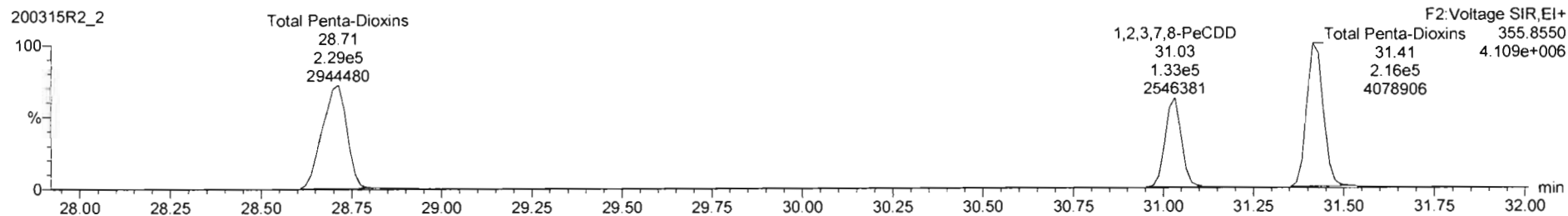
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1,2,3,7,8-PeCDD

200315R2_2

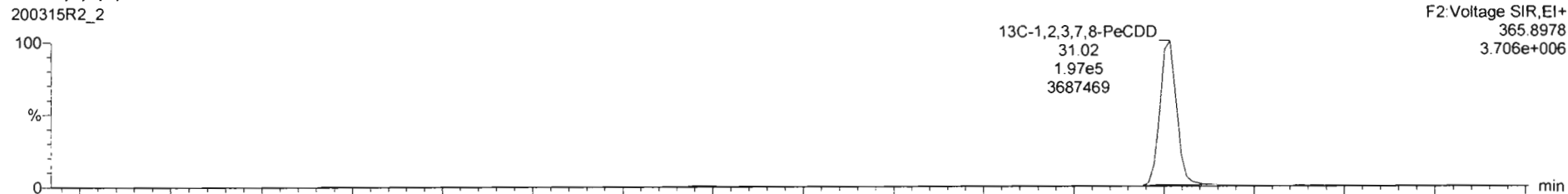


200315R2_2

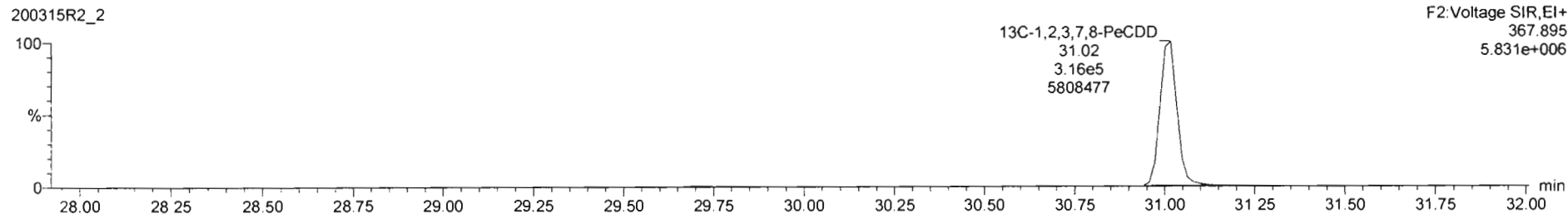


13C-1,2,3,7,8-PeCDD

200315R2_2



200315R2_2



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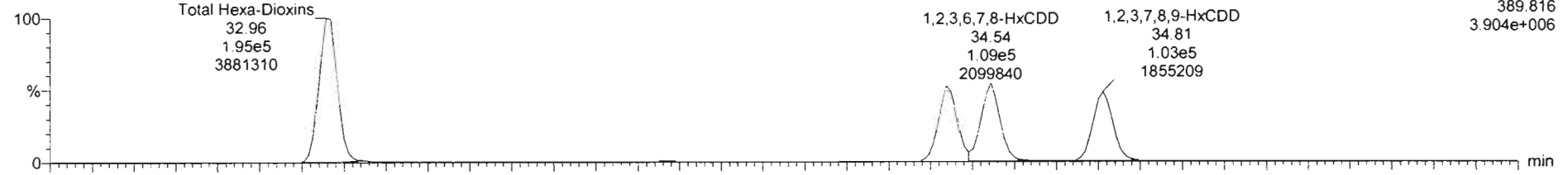
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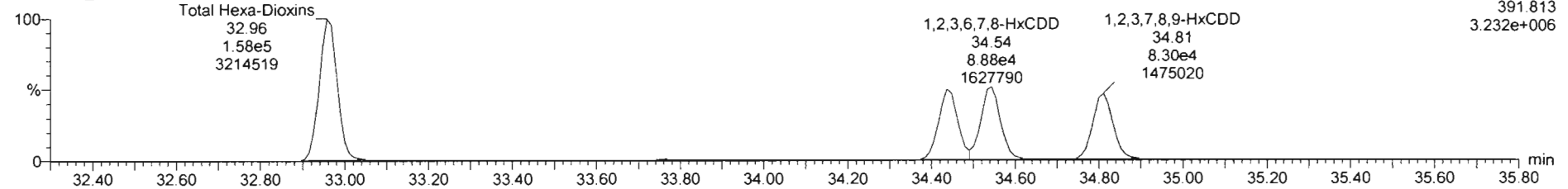
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1,2,3,4,7,8-HxCDD

200315R2_2

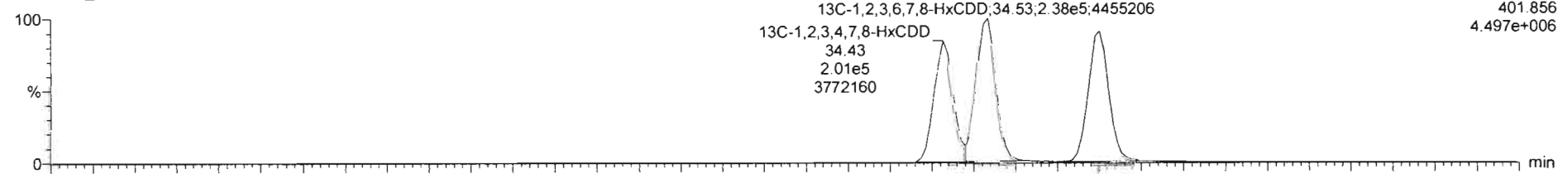


200315R2_2

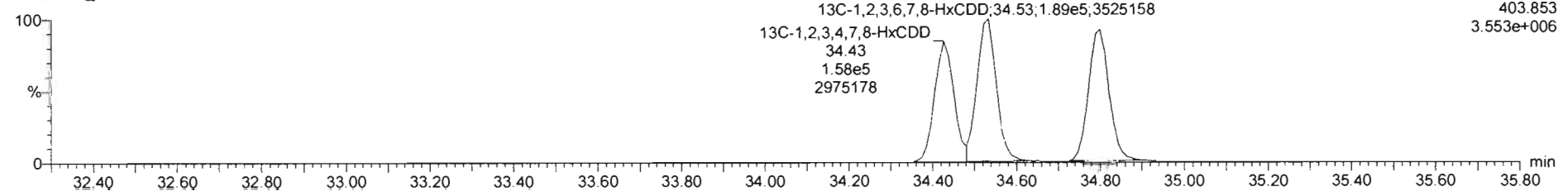


13C-1,2,3,4,7,8-HxCDD

200315R2_2



200315R2_2



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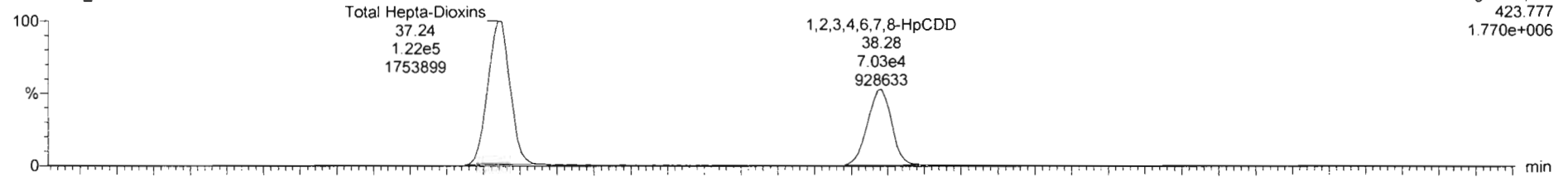
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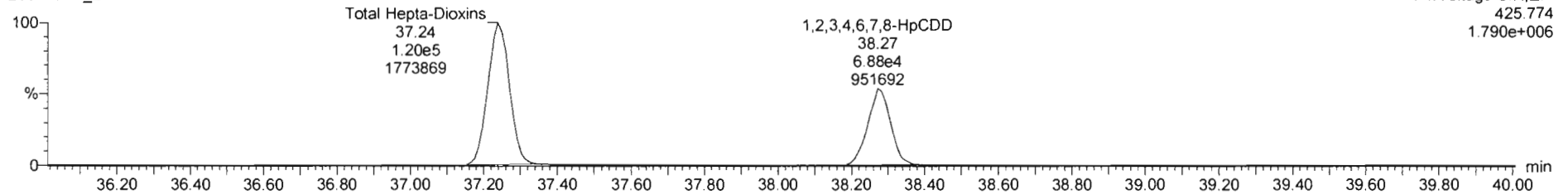
ID: ST200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305, Date: 16-Mar-2020, Time: 00:47:13, ID: ST200315R2_1

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

200315R2_2

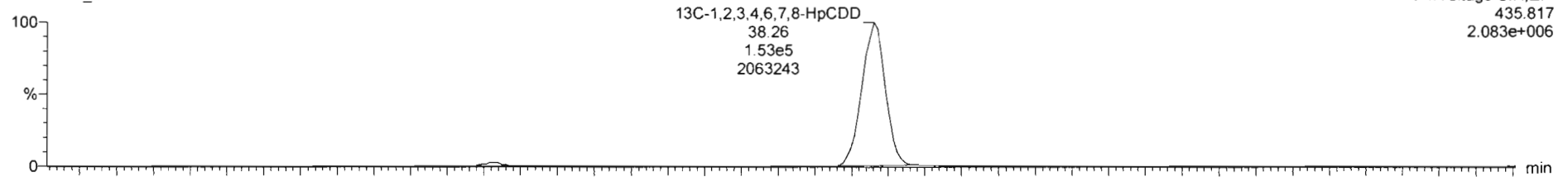


200315R2_2

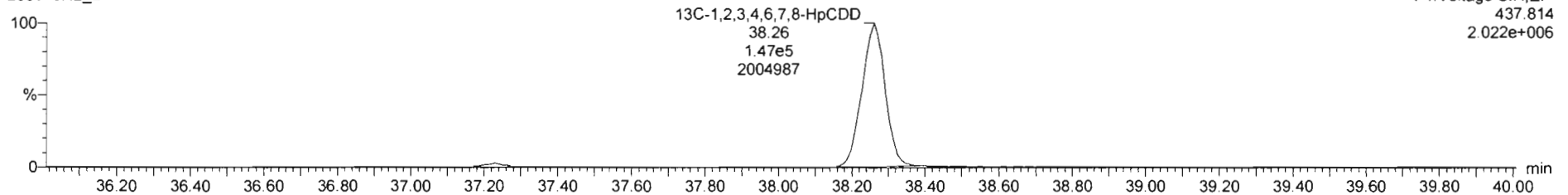


13C-1,2,3,4,6,7,8-HpCDD

200315R2_2



200315R2_2

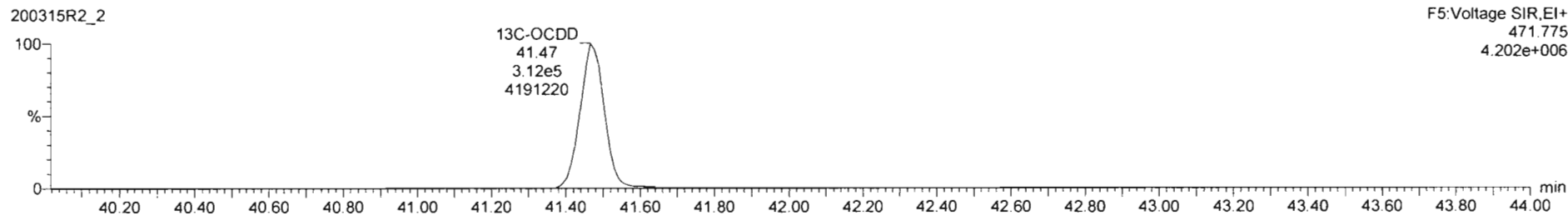
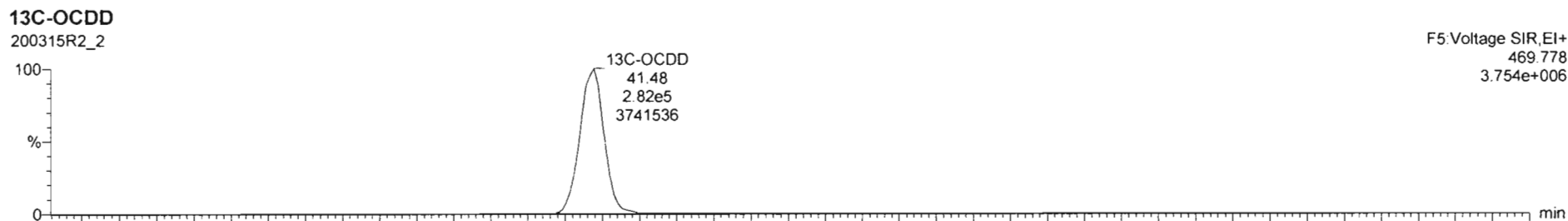
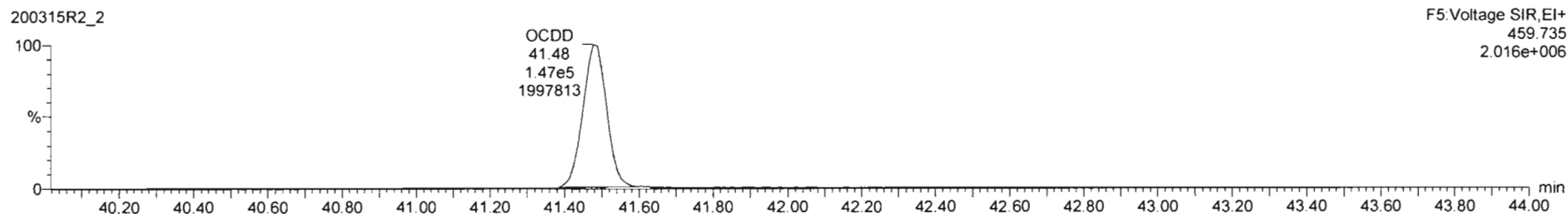
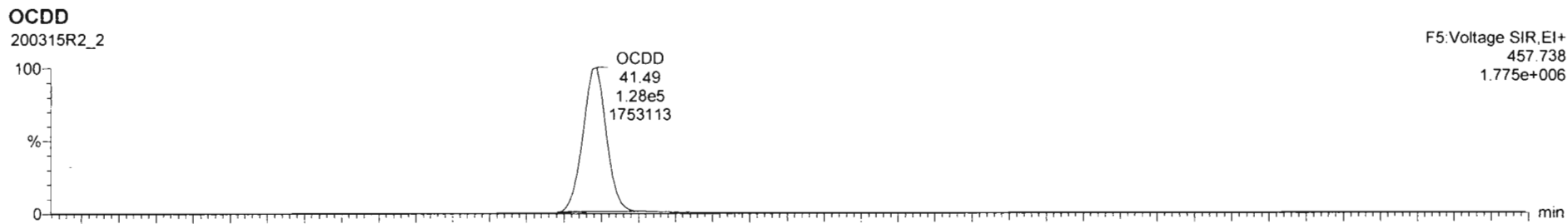


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LRST AREA: 1.775e+006
Area: 1.775e+006

Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



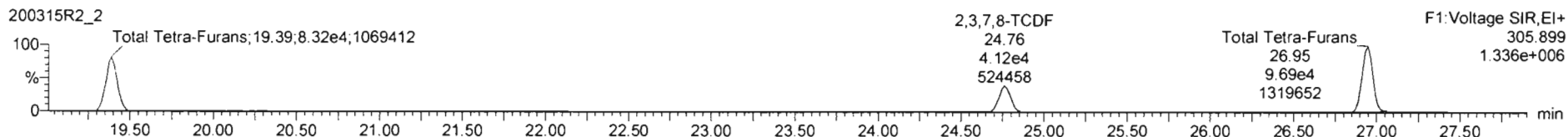
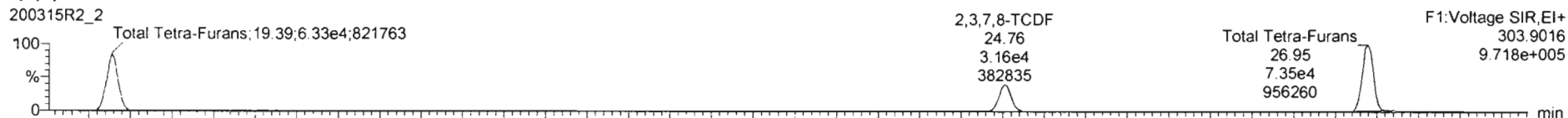
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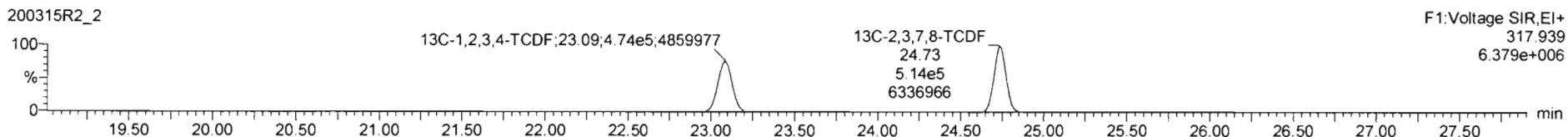
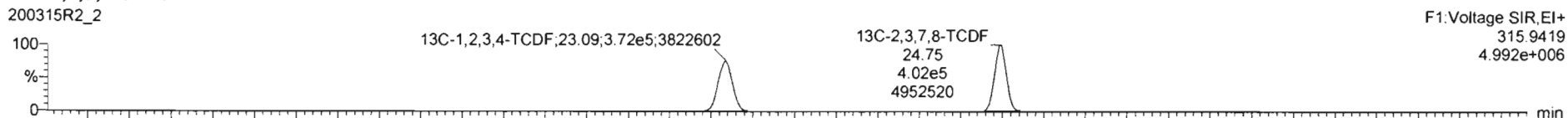
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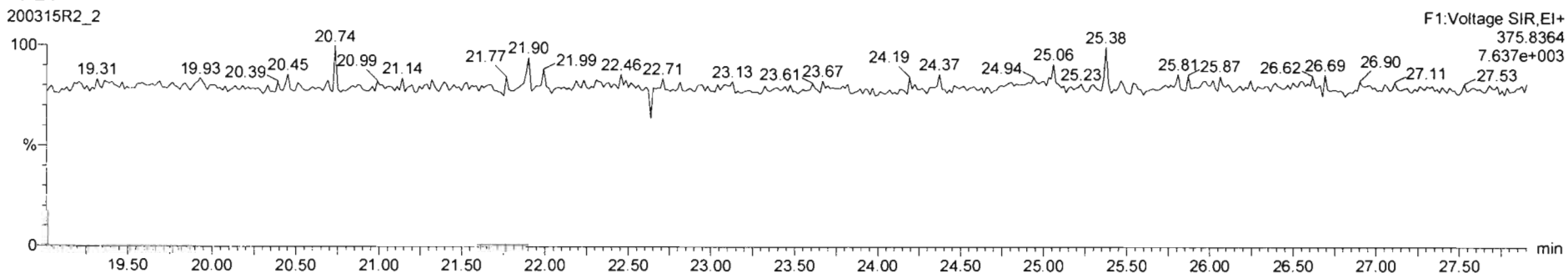
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time

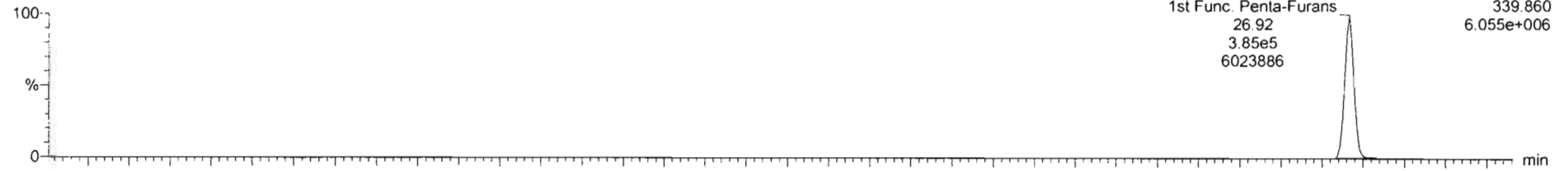
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List All
Print All

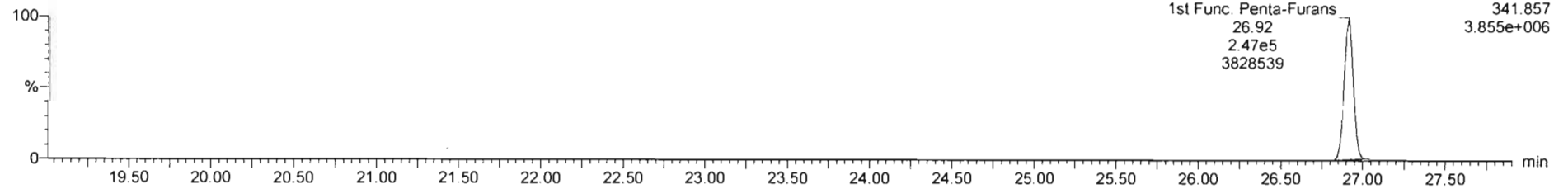
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200315R2_2

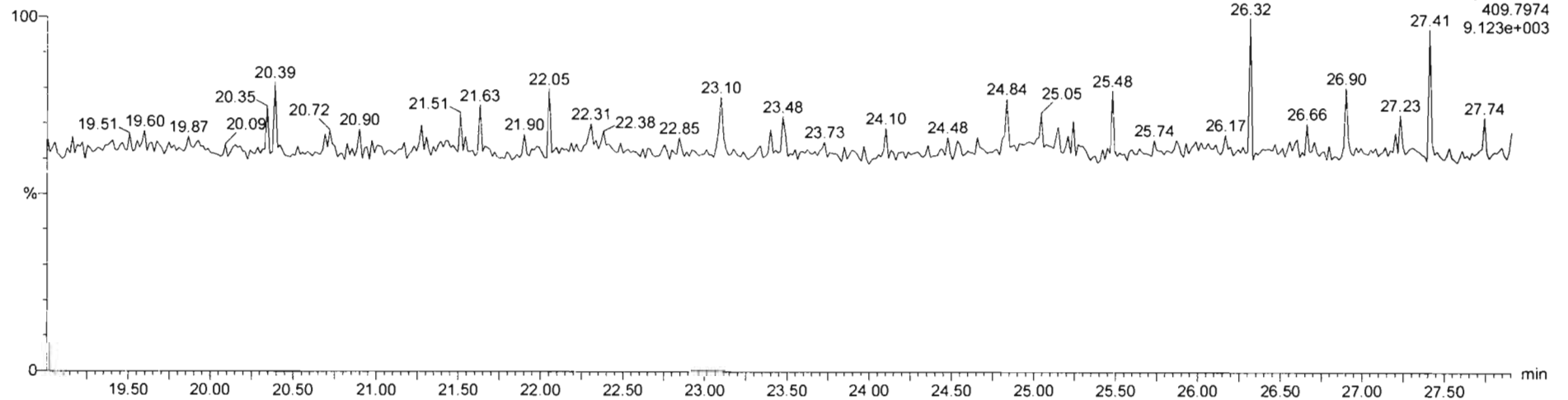


200315R2_2



DPE6

200315R2_2



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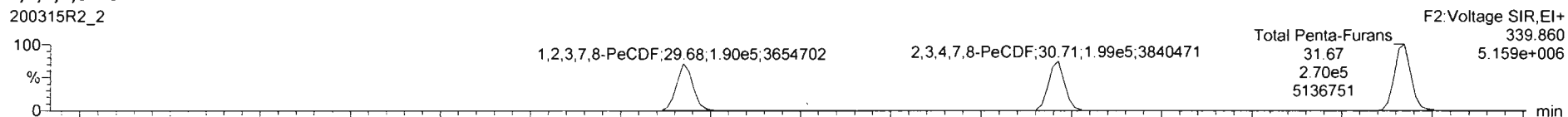
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Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

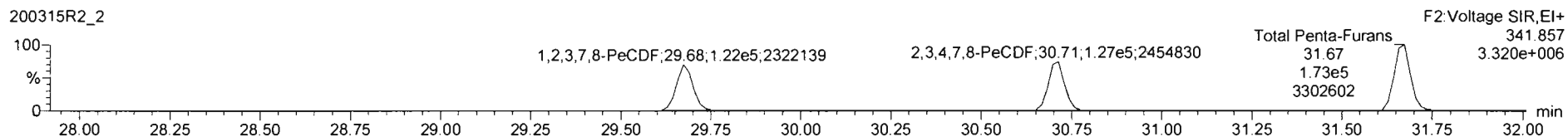
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1,2,3,7,8-PeCDF

200315R2_2

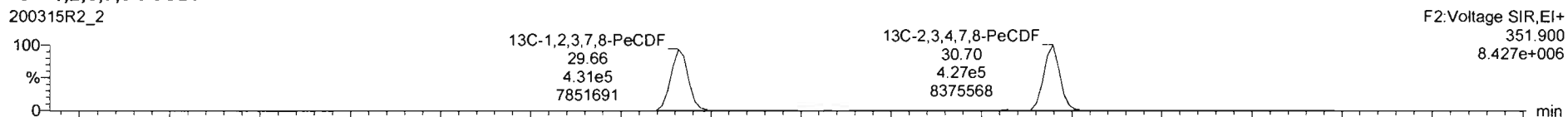


200315R2_2

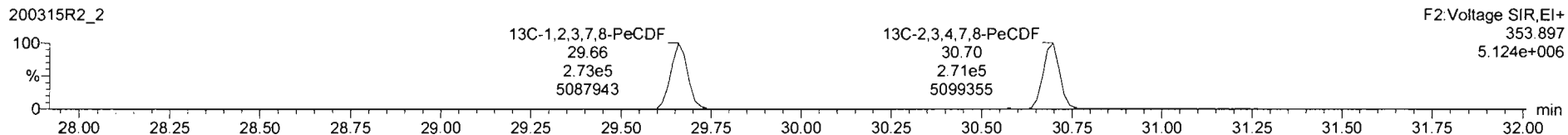


13C-1,2,3,7,8-PeCDF

200315R2_2

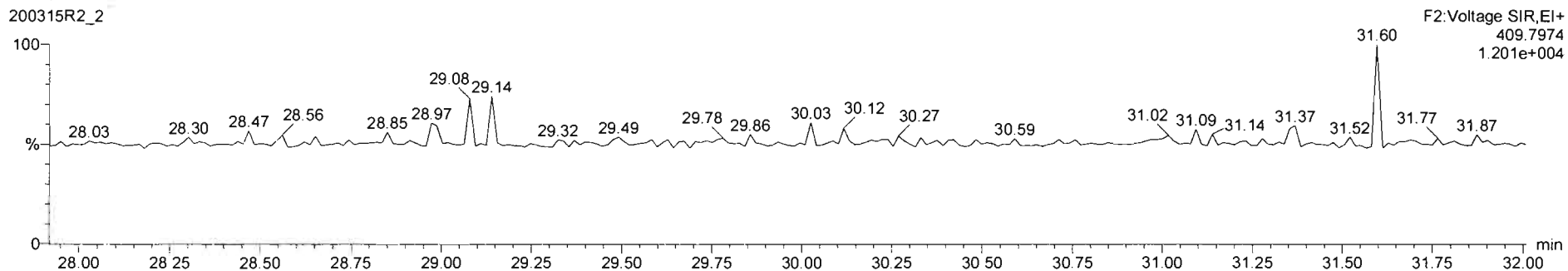


200315R2_2



DPE2

200315R2_2



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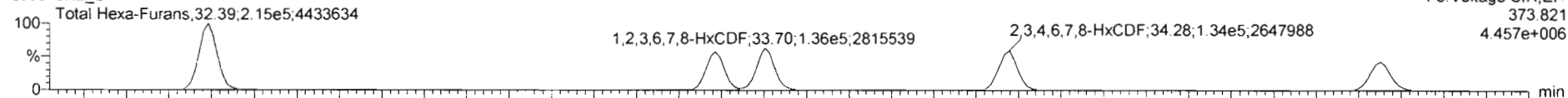
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

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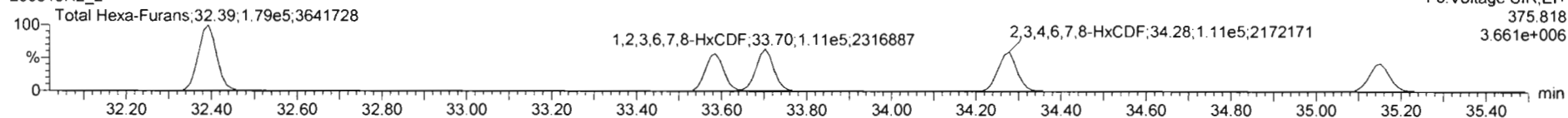
SPID: ST200315R2_2; Date: 16-Mar-2020; Time: 00:47:18; ID: ST200315R2_1 1613 CS3 19L2305; Description: 1613 CS3 19L2305; Date: 16-Mar-2020; Time: 00:47:18; ID: ST200315R2_2

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

200315R2_2

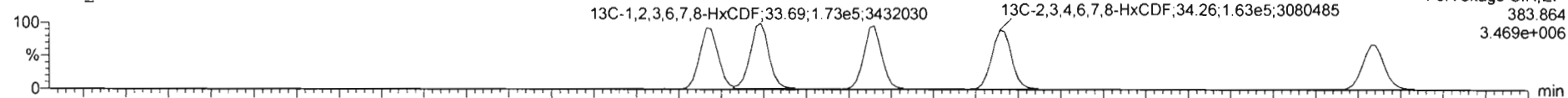


200315R2_2

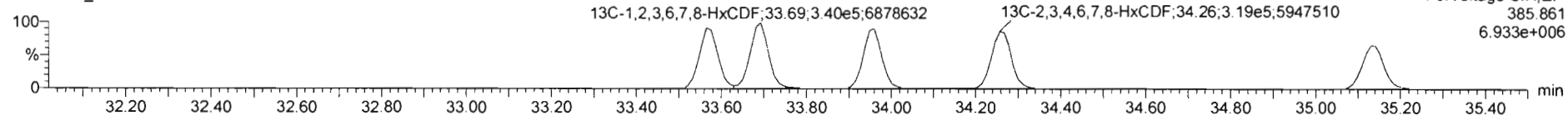


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200315R2_2

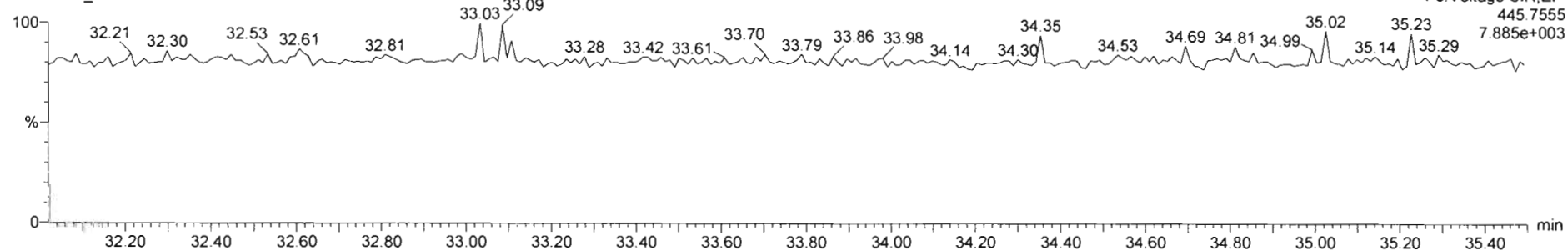


200315R2_2



DPE3

200315R2_2



Dataset: Untitled

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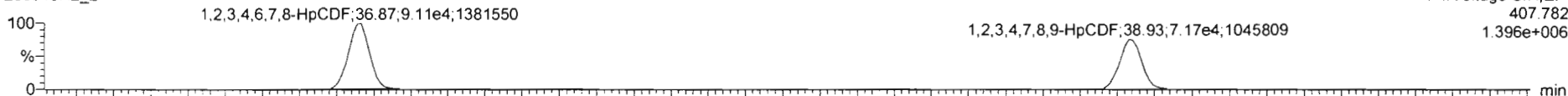
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Sample ID: ST200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

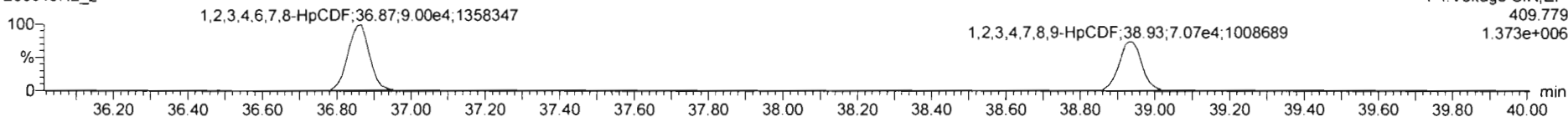
1,2,3,4,6,7,8-HpCDF

200315R2_2



F4: Voltage SIR, EI+
407.782
1.396e+006

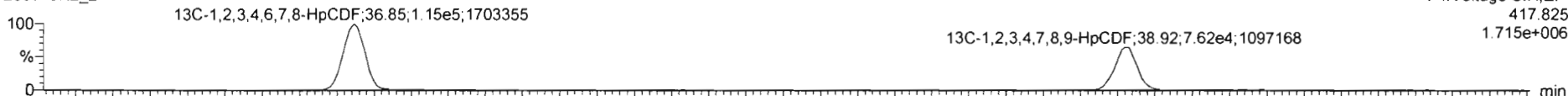
200315R2_2



F4: Voltage SIR, EI+
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1.373e+006

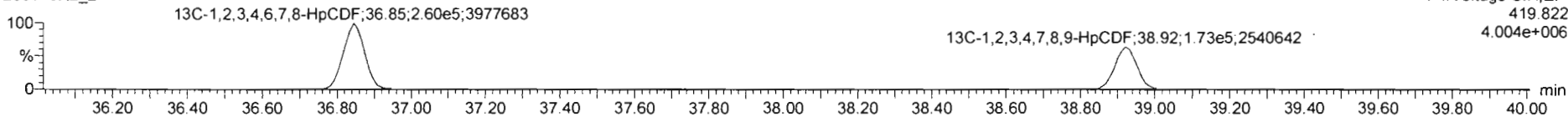
13C-1,2,3,4,6,7,8-HpCDF

200315R2_2



F4: Voltage SIR, EI+
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1.715e+006

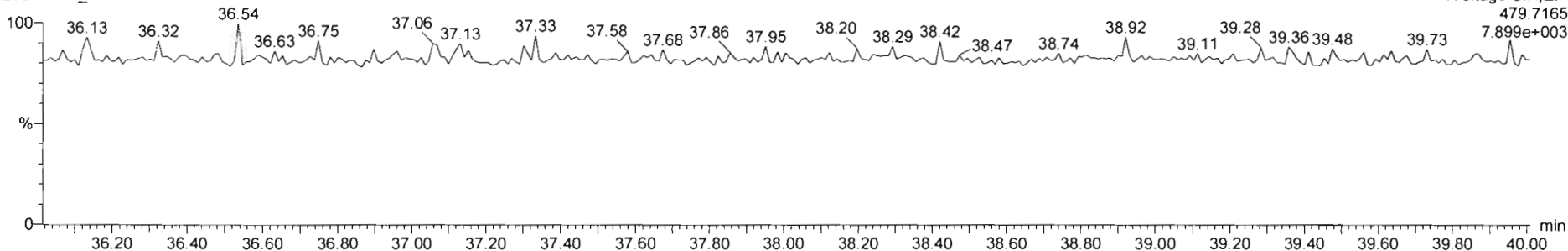
200315R2_2



F4: Voltage SIR, EI+
419.822
4.004e+006

DPE4

200315R2_2



F4: Voltage SIR, EI+
479.7165
7.899e+003

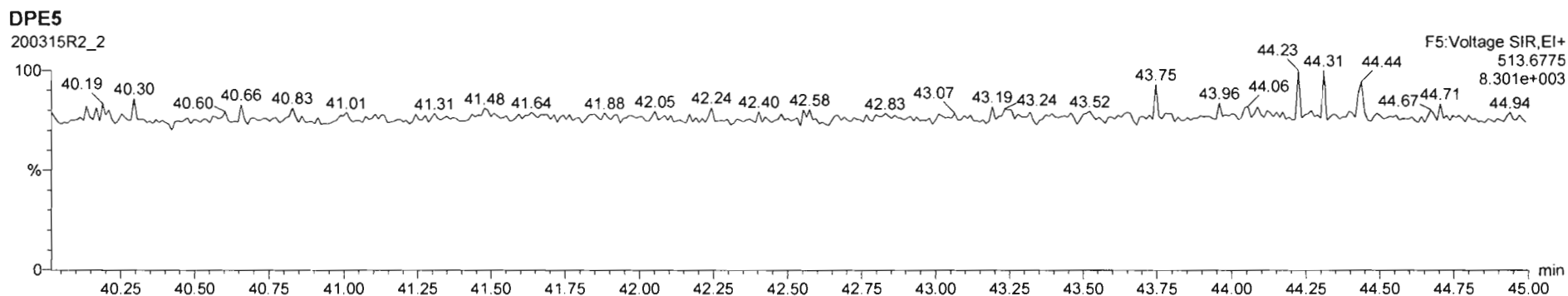
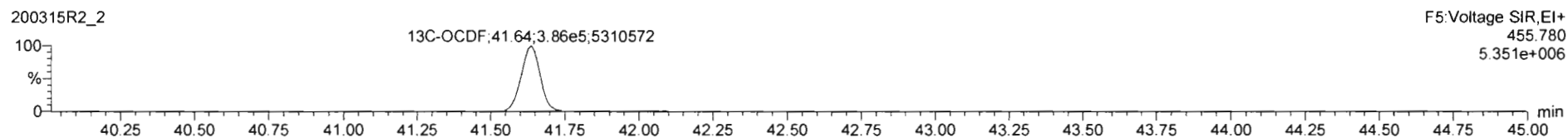
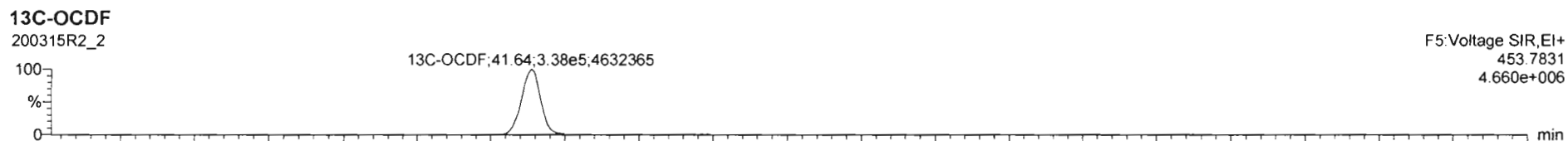
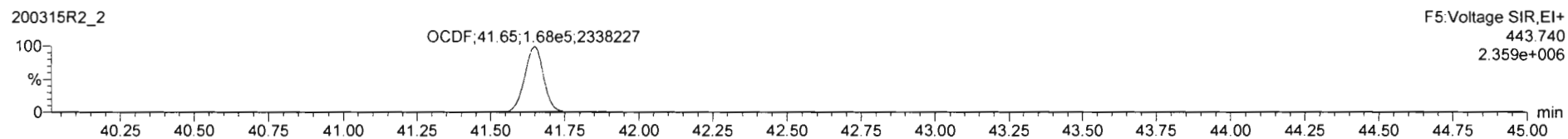
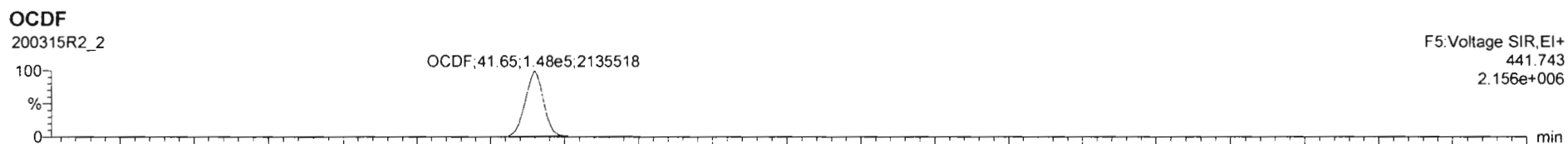
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Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time

Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

LSM: 1000000
PM: 1000000

ST: 200315R2_2; Date: 16-Mar-2020; Time: 00:47:18; ID: ST200315R2_1 1613 CS3 19L2305; Description: 1613 CS3 19L2305

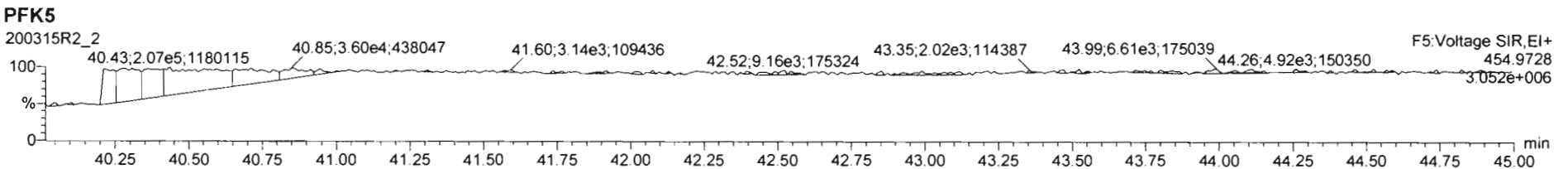
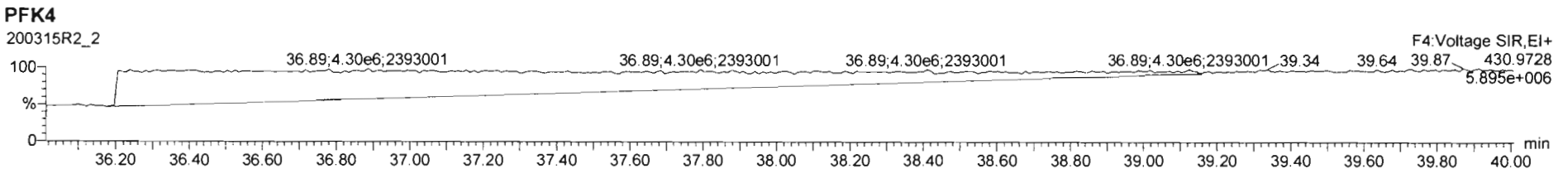
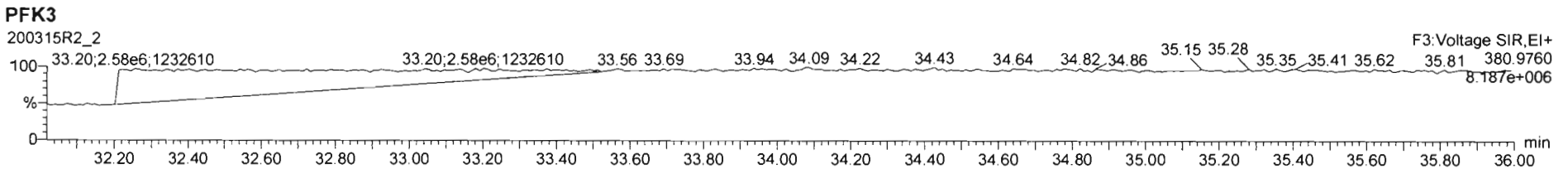
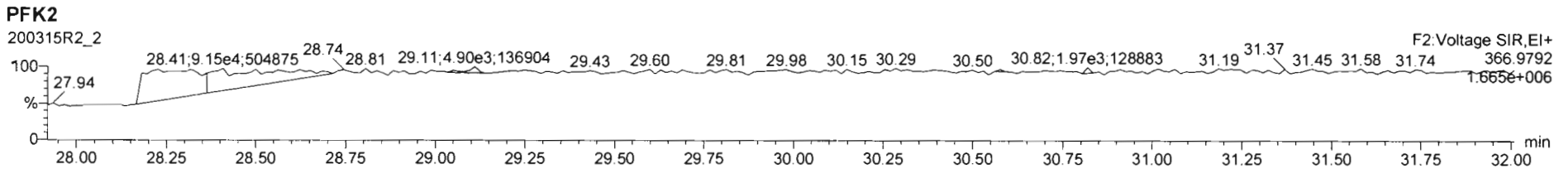
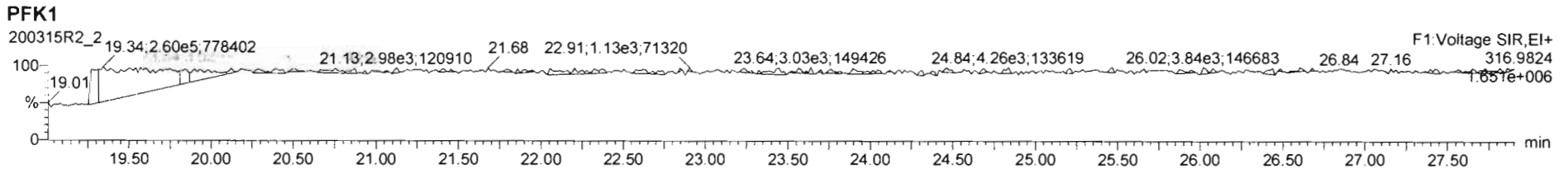


Dataset: Untitled

Last Altered: Monday, March 16, 2020 07:41:17 Pacific Daylight Time
Printed: Monday, March 16, 2020 07:54:46 Pacific Daylight Time

Last Altered: 07:54:46
Printed: 07:54:46

SPD: SPD Name: 200315R2_2, Date: 16-Mar-2020, Time: 00:47:18, ID: ST200315R2_1 1613 CS3 19L2305, Description: 1613-CS3-19L2305, Plan: 2020, Time: 07:47:18, ID: ST200315R2_1 1613 CS3 19L2305



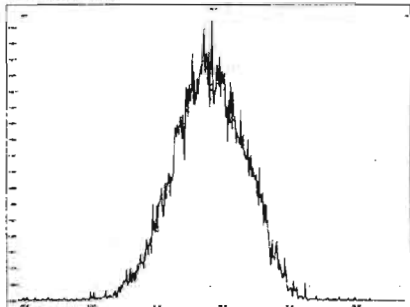
Resolution Check Report

MassLynx 4.1 SCN815

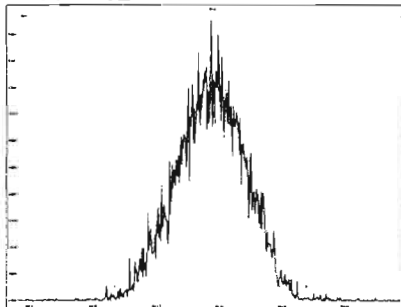
ⓐ INST. VENTED & STOPPED READING
MASSES DURING END RES CHECK.

Printed: Monday, March 16, 2020 10:26:52 Pacific Daylight Time

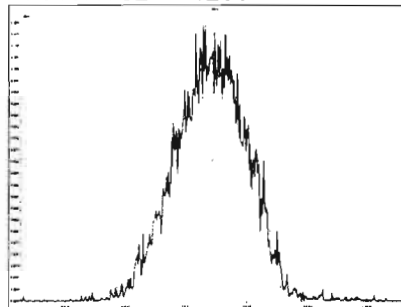
M 292.9824 R 11971



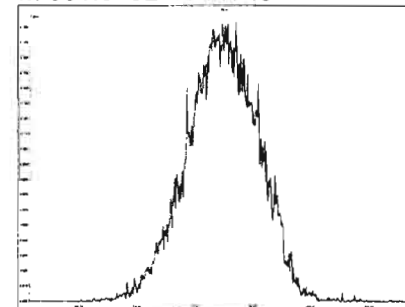
M 304.9824 R 12598



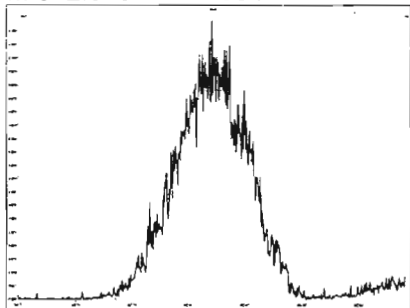
M 318.9792 R 12306



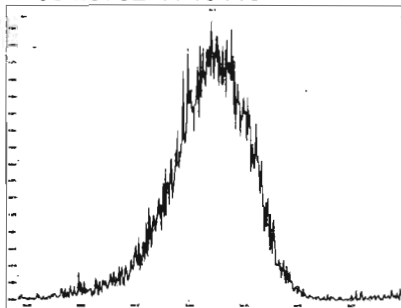
M 330.9792 R 11743



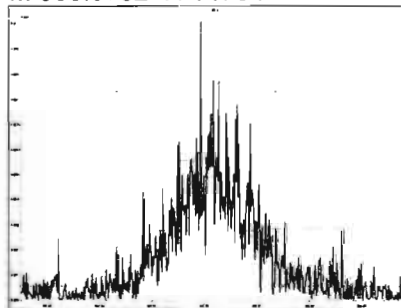
M 342.9792 R 12504



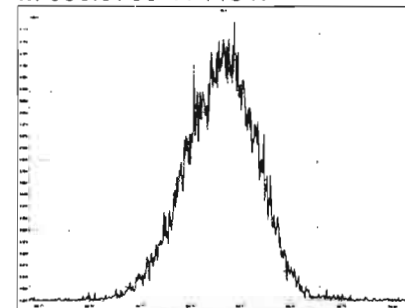
M 354.9792 R 10416



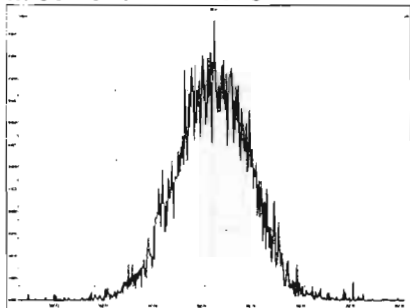
M 366.9792 R 14704



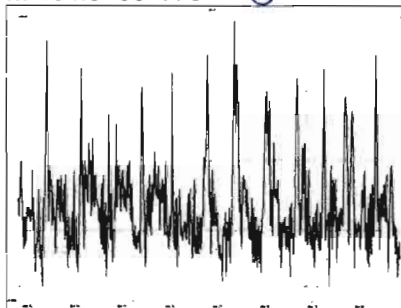
M 380.9760 R 11547



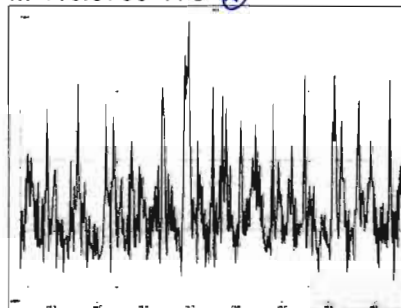
M 392.9760 R 11978



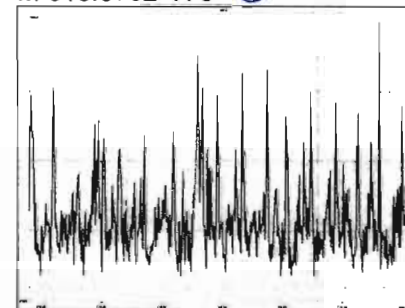
M 404.9760 R 0 ⓐ



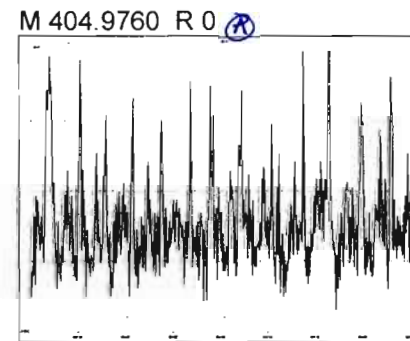
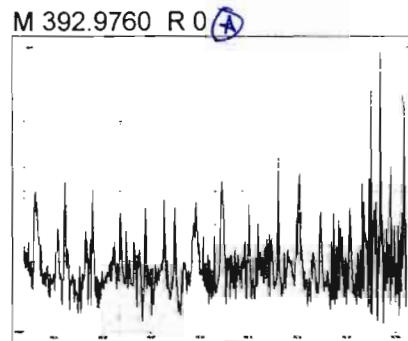
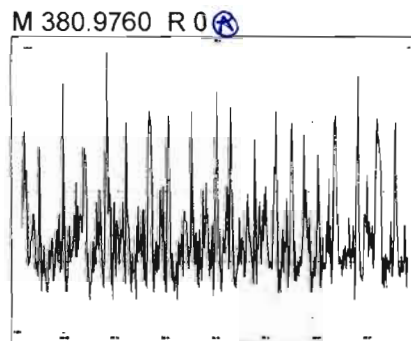
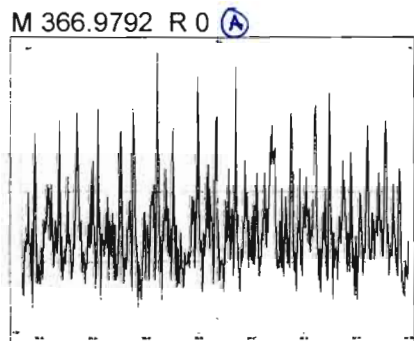
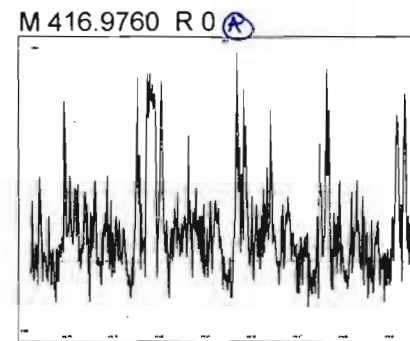
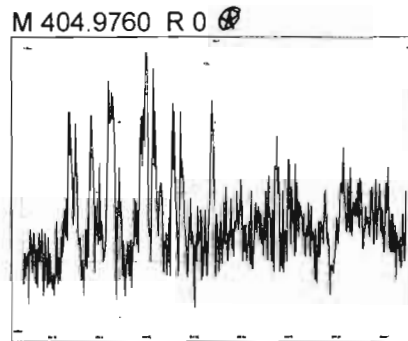
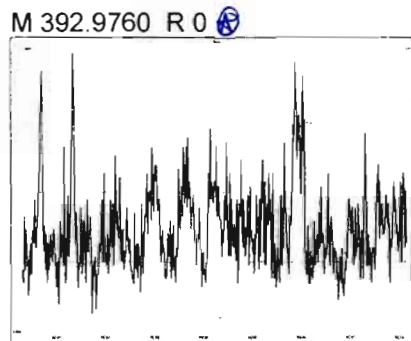
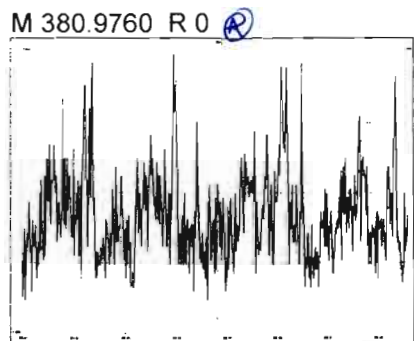
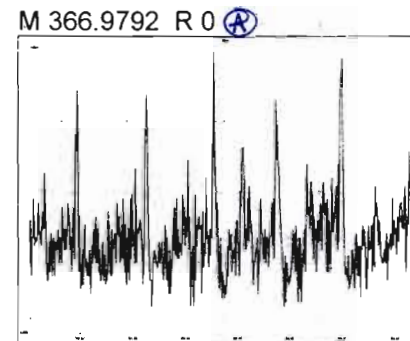
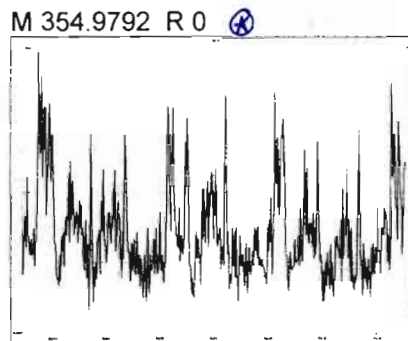
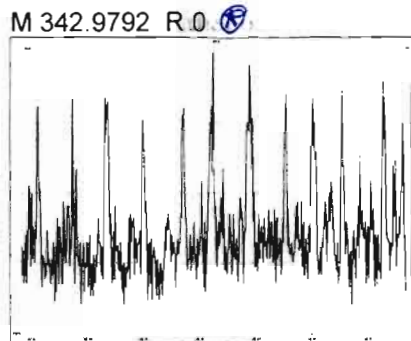
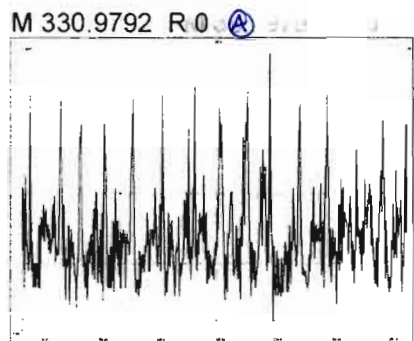
M 416.9760 R 0 ⓐ



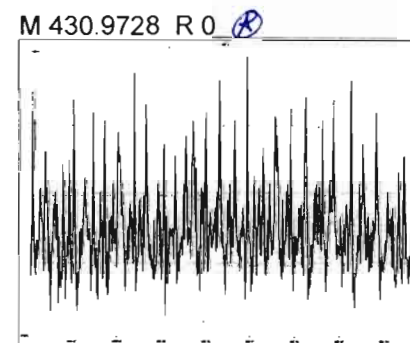
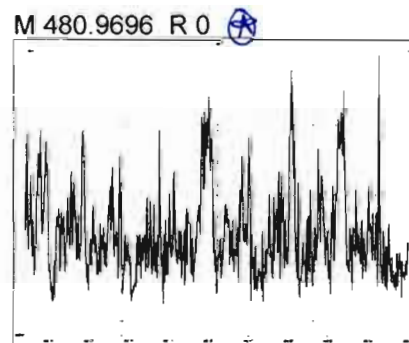
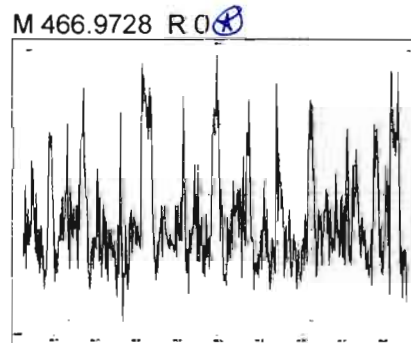
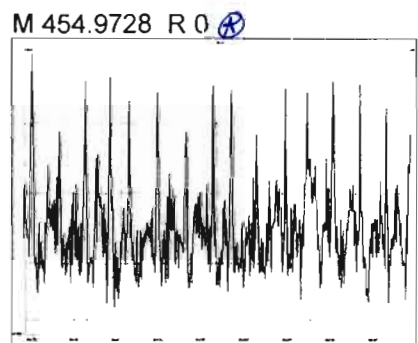
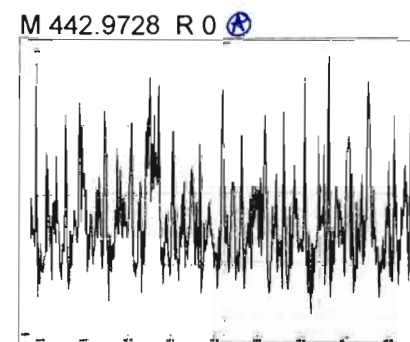
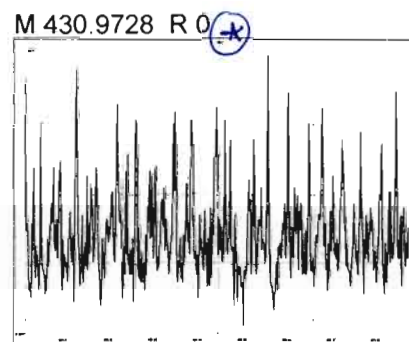
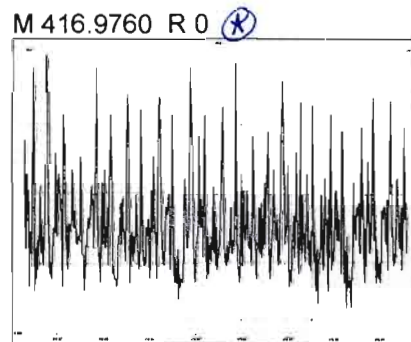
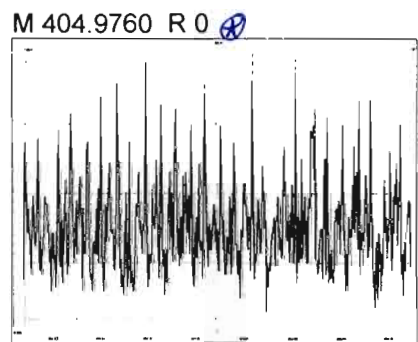
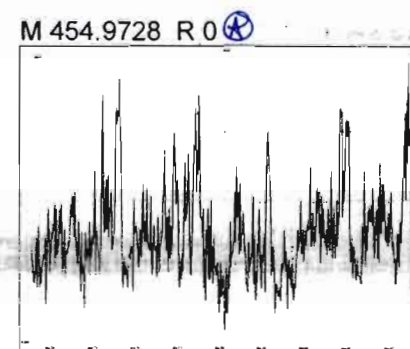
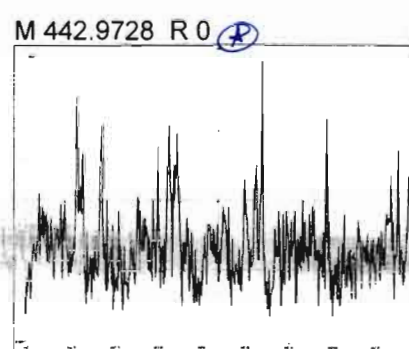
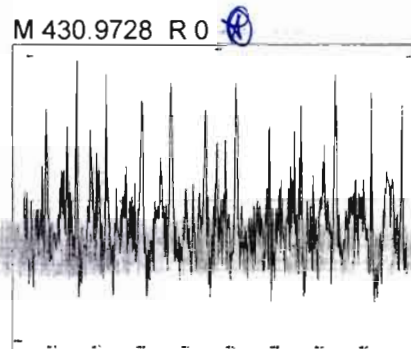
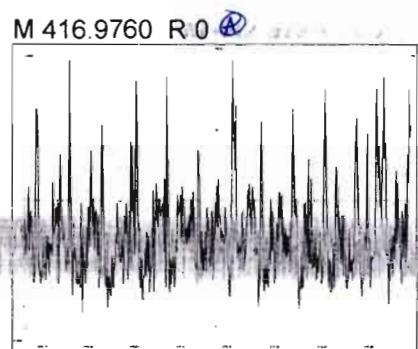
M 318.9792 R 0 ⓑ




Printed: Monday, March 16, 2020 10:26:52 Pacific Daylight Time

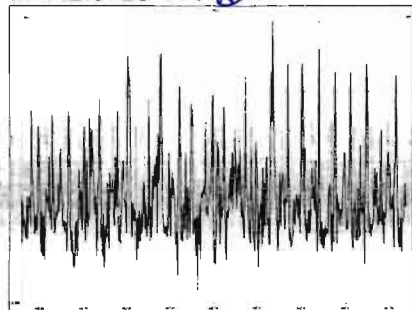



Printed: Monday, March 16, 2020 10:26:52 Pacific Daylight Time

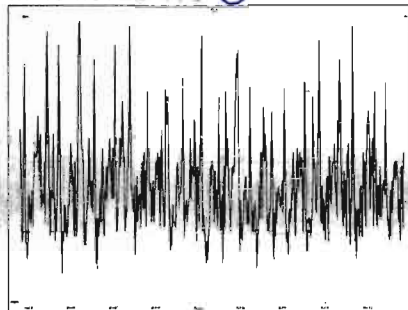


Printed: Monday, March 16, 2020 10:26:52 Pacific Daylight Time

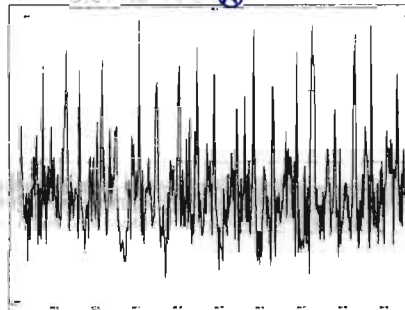
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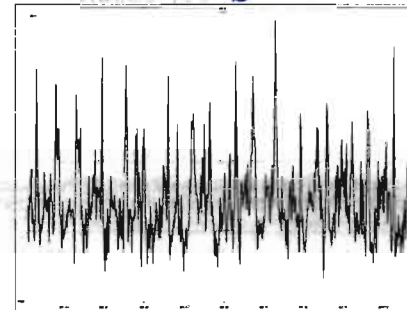
M 454.9728 R 0 




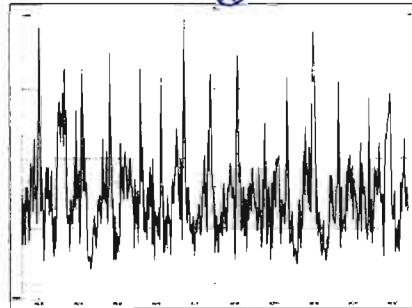
M 466.9728 R 0 




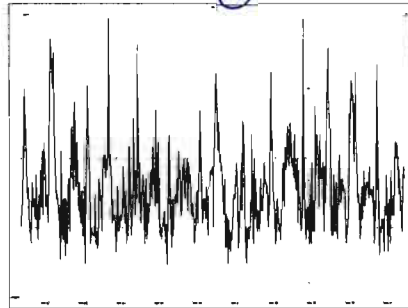
M 480.9696 R 0 




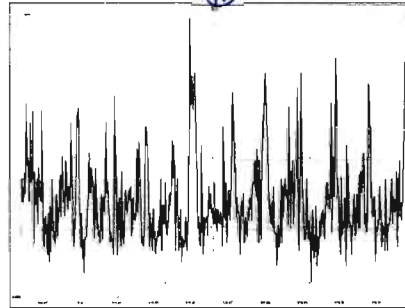
M 492.9696 R 0 



M 504.9696 R 0 



M 516.9697 R 0 



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200311R4-1

Reviewed By: CT 03/13/2020
Initials & Date

End Calibration ID: NA

	Beg.	End		Beg.	End
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	Mass resolution \geq	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Integrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox"/> NA	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8280 CS1 End Standard:		
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments: <div style="border: 1px solid black; height: 150px; width: 100%;"></div>		
Correct ICAL referenced?	<input type="checkbox"/> GRB	<input type="checkbox"/>			
Run Log:					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> ↓			
- Samples within 12 hour clock?	<input type="checkbox"/> Y	<input type="checkbox"/> N			
- Bottle position verified?	<input type="checkbox"/>	<input type="checkbox"/>			
	<u>GRB</u>	<u>GRB</u>			

Dataset: U:\VG12.PRO\Results\200311R4\200311R4-3.qld

Last Altered: Thursday, March 12, 2020 08:04:35 Pacific Daylight Time

Printed: Thursday, March 12, 2020 08:06:12 Pacific Daylight Time

GRB 03/12/2020

C7 03/13/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R4_3, Date: 12-Mar-2020, Time: 07:27:18, ID: ST200311R4_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.91e5	0.75	NO	0.821	1.000	16.54	9.8039	98.0	0.0653
2	2 13C-2,3,7,8-TCDF	2.37e6	0.79	NO	1.10	1.000	16.52	101.59	102	0.186
3	3 13C-1,2,3,4-TCDF	2.12e6	0.79	NO	1.00	1.000	14.41	100.00	100	0.204
4	4 13C-1,2,3,4-TCDD	1.73e6	0.83	NO	12000	1.000	15.04	144.07	144	0.220

Dataset: Untitled

Last Altered: Friday, March 13, 2020 07:33:47 Pacific Daylight Time

Printed: Friday, March 13, 2020 07:34:42 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

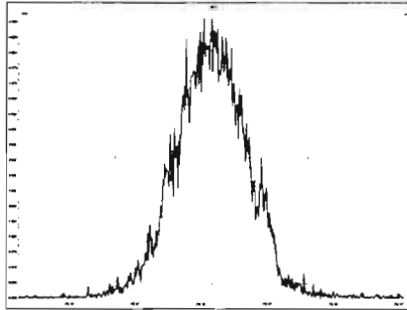
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

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

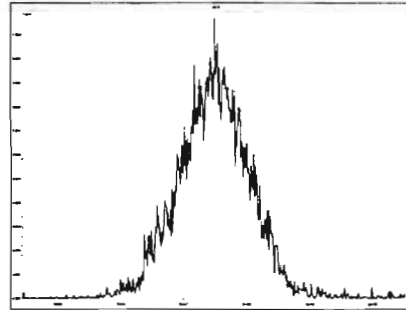
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1	200311R4_1	SOLVENT BLANK	12-Mar-20	06:26:42
2	200311R4_2	CP200311R4_1 225 CPSM	12-Mar-20	06:56:54
3	200311R4_3	ST200311R4_1 1613 CS3 19L2305	12-Mar-20	07:27:18
4	200311R4_4	SOLVENT BLANK	12-Mar-20	07:57:43
5	200311R4_5	1903737-01RE2 PDI-049SC-B-00-02-191015 ...	12-Mar-20	08:28:07
6	200311R4_6	1903737-02RE2 PDI-049SC-B-02-04-191015 ...	12-Mar-20	08:58:31
7	200311R4_7	1903737-03RE2 PDI-049SC-B-04-06-191015 ...	12-Mar-20	09:29:01
8	200311R4_8	1903737-05RE2 PDI-052SC-B-00-02-191015 ...	12-Mar-20	09:59:25
9	200311R4_9	1903737-06RE2 PDI-052SC-B-02-04-191015 ...	12-Mar-20	10:29:50
10	200311R4_10	1903737-07RE2 PDI-052SC-B-04-06-191015 ...	12-Mar-20	11:00:15
11	200311R4_11	1903737-08RE2 PDI-052SC-B-06-08-191015 ...	12-Mar-20	11:30:40
12	200311R4_12	1903737-09RE2 PDI-055SC-B-00-02-191015 ...	12-Mar-20	12:01:06
13	200311R4_13	1903737-10RE2 PDI-055SC-B-02-04-191015 ...	12-Mar-20	12:31:31
14	200311R4_14	1903737-11RE2 PDI-055SC-B-04-06-191015 ...	12-Mar-20	13:01:56
15	200311R4_15	1904208-02RE2 PDI-134RAB-10-20-191120 1...	12-Mar-20	13:32:23
16	200311R4_16	1904208-03RE2 PDI-134RAB-20-25.5-191120...	12-Mar-20	14:02:48
17	200311R4_17	1904208-04RE2 PDI-135RAB-00-10-191120 1...	12-Mar-20	14:33:13
18	200311R4_18	1904208-05RE2 PDI-135RAB-10-20-191120 1...	12-Mar-20	15:03:39
19	200311R4_19	B0A0235-DUP1 Duplicate 11.8	12-Mar-20	15:34:05
20	200311R4_20	1904208-06RE2 PDI-135RAB-20-26.2-191120...	12-Mar-20	16:04:30
21	200311R4_21	1904208-08RE2 PDI-136RAB-10-13.4-191119...	12-Mar-20	16:34:55
22	200311R4_22	1904208-09RE2 PDI-137RAB-00-10-191119 1...	12-Mar-20	17:05:20
23	200311R4_23	1904208-10RE2 PDI-137RAB-10-17.7-191119...	12-Mar-20	17:35:46
24	200311R4_24	B0A0235-DUP2 Duplicate 42.34	12-Mar-20	18:06:11
25	200311R4_25	1904313-01RE2 C1219-EB071SG-000015 42....	12-Mar-20	18:36:37

Printed: Thursday, March 12, 2020 06:26:41 Pacific Daylight Time

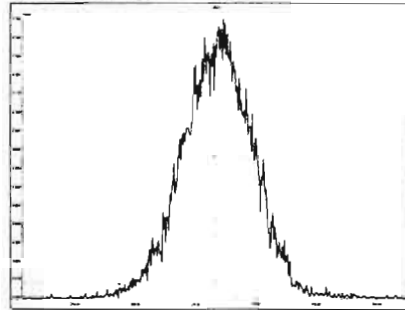
M 292.9824 R 12577



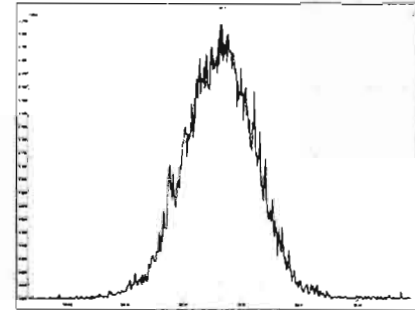
M 304.9824 R 13122



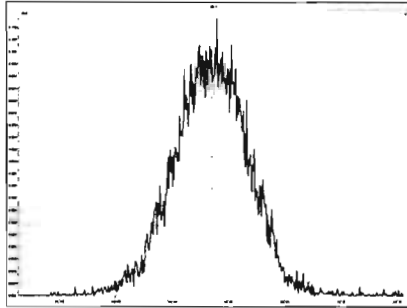
M 318.9792 R 12026



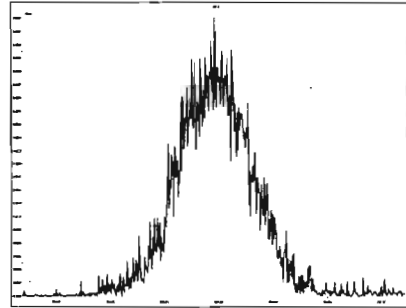
M 330.9792 R 11600



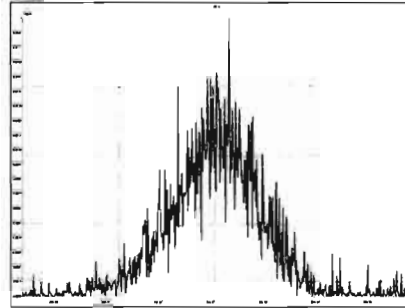
M 342.9792 R 12351



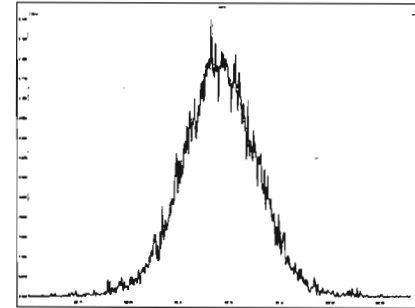
M 354.9792 R 13162



M 366.9792 R 12122



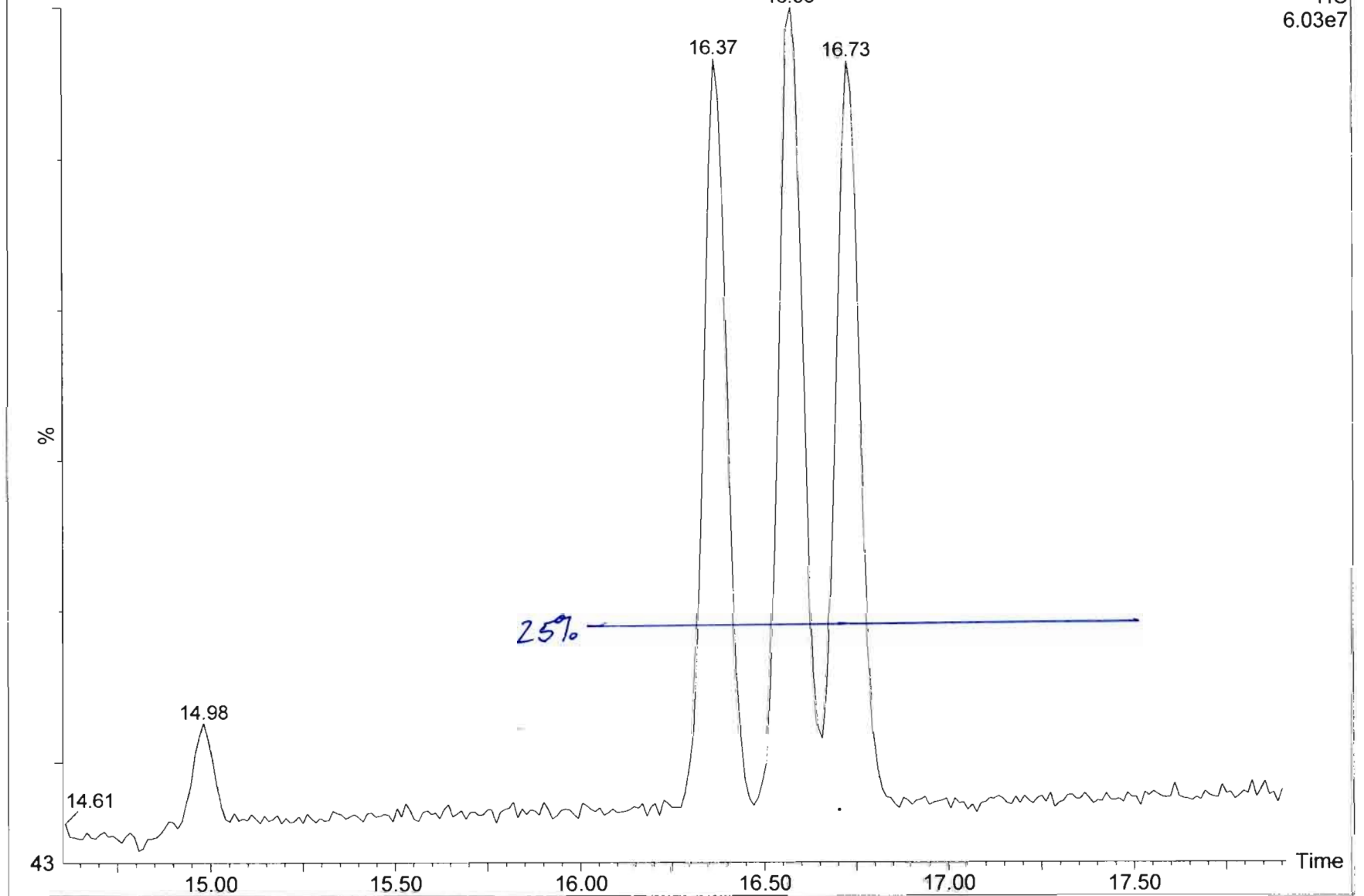
M 380.9760 R 11041



GPB 03/12/2020

225 CPSM
200311R4_2

Voltage SIR 12 Channels EI+
TIC
6.03e7



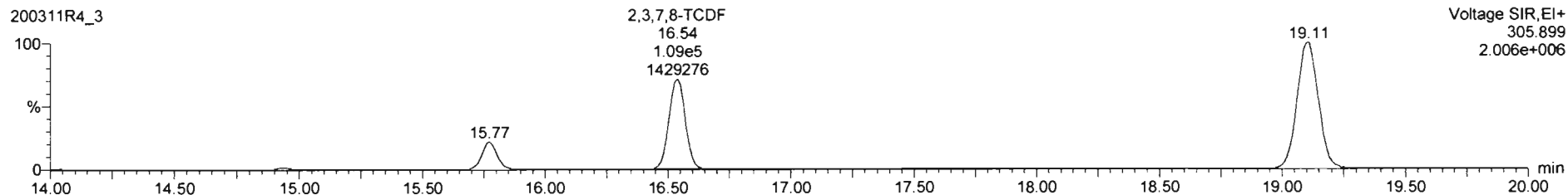
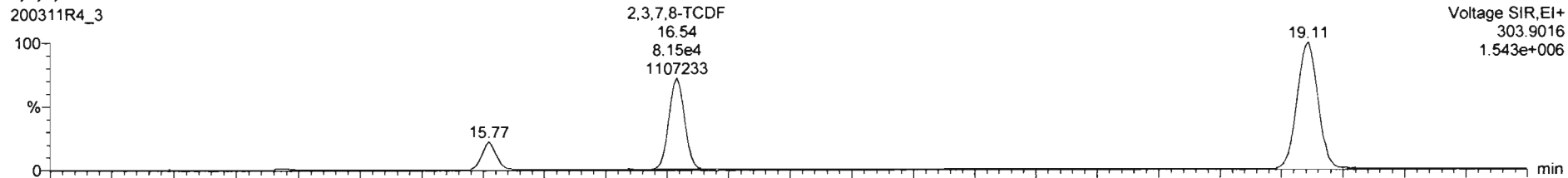
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Last Altered: Thursday, March 12, 2020 08:04:35 Pacific Daylight Time
Printed: Thursday, March 12, 2020 08:04:53 Pacific Daylight Time

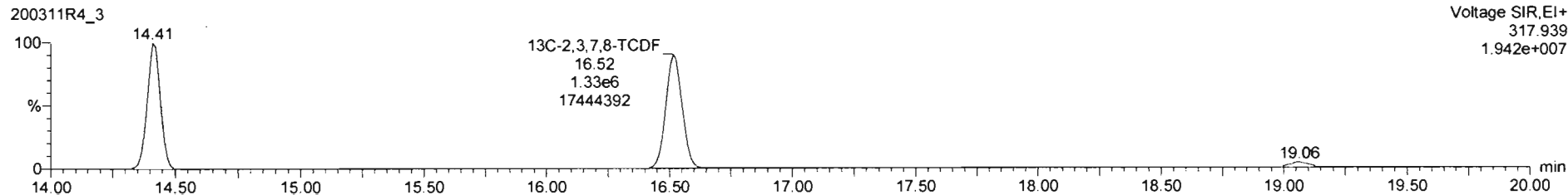
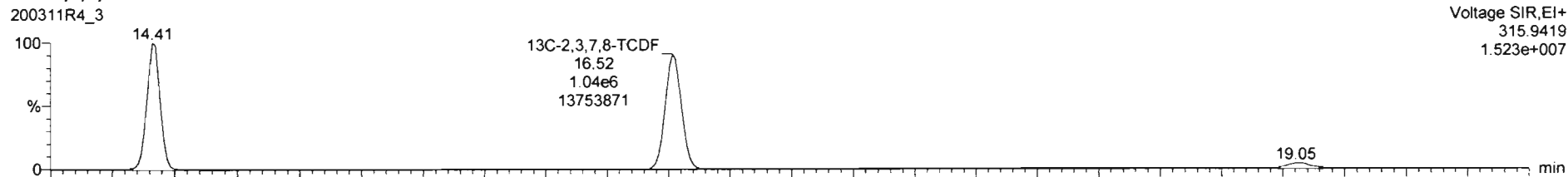
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Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

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2,3,7,8-TCDF



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



Dataset: Untitled

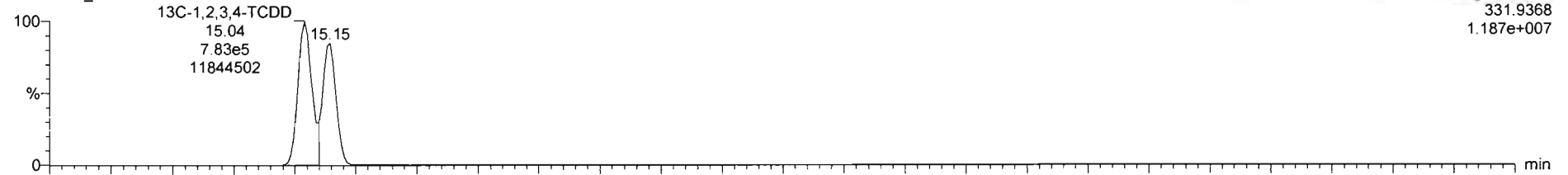
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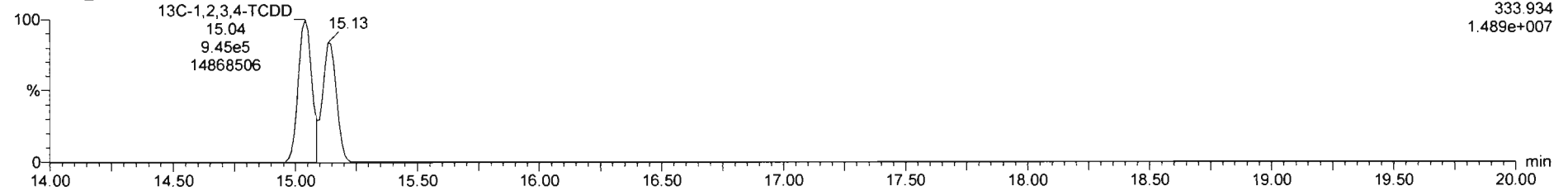
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13C-1,2,3,4-TCDD

200311R4_3

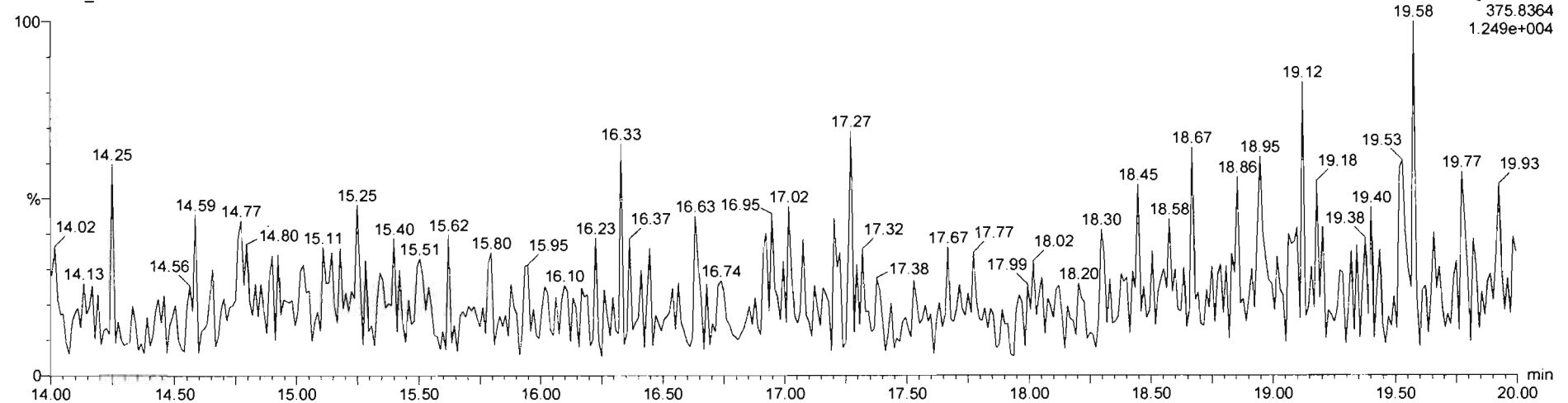


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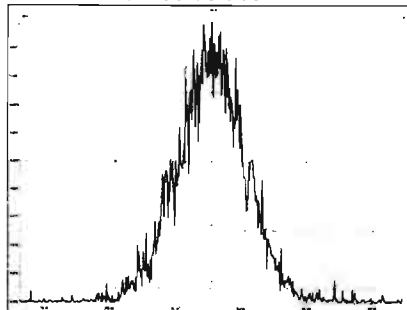
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200311R4_3

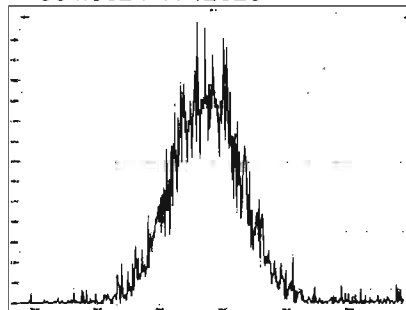


Printed: Thursday, March 12, 2020 19:08:52 Pacific Daylight Time

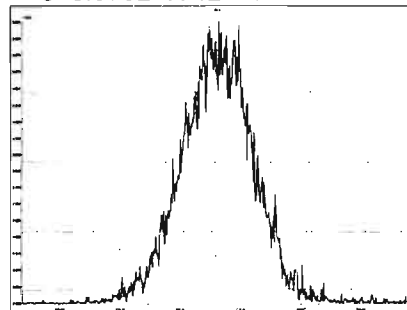
M 292.9824 R 13440



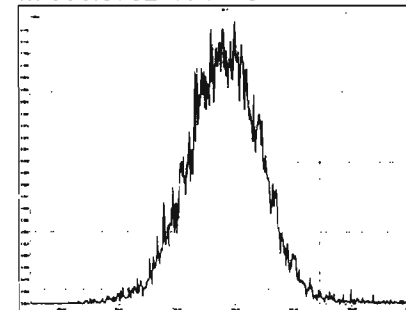
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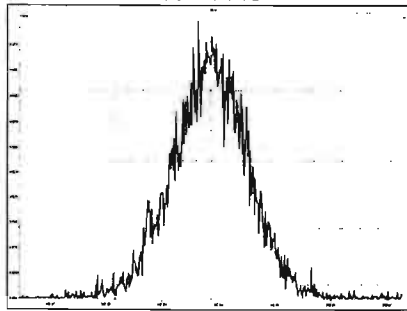
M 318.9792 R 12197



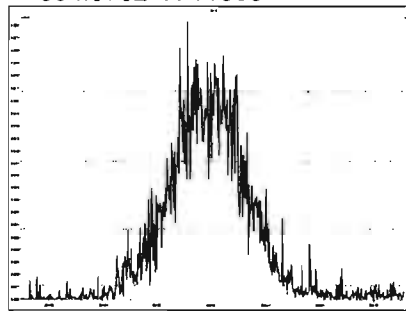
M 330.9792 R 11991



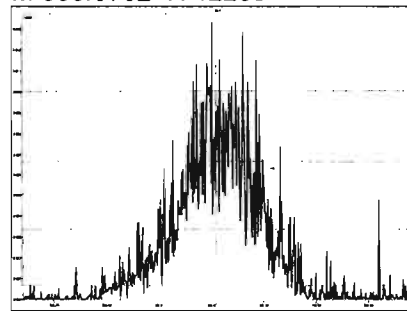
M 342.9792 R 12228



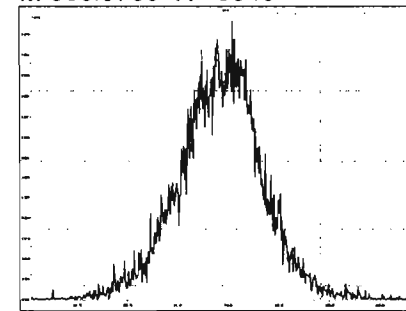
M 354.9792 R 11683



M 366.9792 R 12269



M 380.9760 R 10640



INITIAL CALIBRATION

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

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

GRB 02/02/2020

C: 02/04/2020

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

Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

Response Factor: 0.988069

RRF SD: 0.0483829, Relative SD: 4.89671

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	0.250	0.83	NO	25.74	1.001	2.87e3	1.21e6	0.239	-4.3	0.945	bb
2	200131R1_2	0.500	0.77	NO	25.69	1.001	7.22e3	1.37e6	0.532	6.5	1.05	bb
3	200131R1_3	2.00	0.80	NO	25.70	1.001	3.00e4	1.44e6	2.11	5.7	1.04	bb
4	200131R1_4	10.0	0.78	NO	25.70	1.001	1.39e5	1.42e6	9.92	-0.8	0.980	db
5	200131R1_5	40.0	0.77	NO	25.69	1.001	5.51e5	1.45e6	38.3	-4.2	0.946	bb
6	200131R1_6	300	0.78	NO	25.70	1.001	5.05e6	1.75e6	291	-2.9	0.960	bb

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

Response Factor: 0.972284

RRF SD: 0.054098, Relative SD: 5.56402

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	0.57	NO	30.67	1.000	1.12e4	9.52e5	1.21	-3.0	0.943	bb
2	200131R1_2	2.50	0.60	NO	30.64	1.001	2.75e4	1.05e6	2.70	7.9	1.05	bb
3	200131R1_3	10.0	0.63	NO	30.64	1.000	1.18e5	1.14e6	10.6	6.4	1.03	bb
4	200131R1_4	50.0	0.63	NO	30.64	1.000	5.09e5	1.09e6	48.2	-3.7	0.936	bb
5	200131R1_5	200	0.63	NO	30.62	1.000	2.30e6	1.23e6	192	-4.2	0.931	bb
6	200131R1_6	1500	0.63	NO	30.64	1.000	2.16e7	1.53e6	1450	-3.4	0.940	bb

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

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 1.07079
 RRF SD: 0.0439702, Relative SD: 4.10634
 Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.18	NO	34.01	1.001	9.84e3	7.72e5	1.19	-4.8	1.02	MM
2	200131R1_2	2.50	1.28	NO	33.98	1.001	2.47e4	8.79e5	2.62	4.9	1.12	bd
3	200131R1_3	10.0	1.23	NO	33.98	1.000	1.09e5	9.69e5	10.5	5.2	1.13	bd
4	200131R1_4	50.0	1.22	NO	33.99	1.000	4.82e5	9.08e5	49.6	-0.8	1.06	bd
5	200131R1_5	200	1.27	NO	33.97	1.000	2.18e6	1.04e6	195	-2.7	1.04	bd
6	200131R1_6	1500	1.21	NO	33.99	1.000	2.05e7	1.30e6	1470	-1.8	1.05	bd

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

Response Factor: 0.921124
 RRF SD: 0.0705821, Relative SD: 7.66261
 Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.14	NO	34.10	1.000	1.01e4	9.31e5	1.18	-5.8	0.868	MM
2	200131R1_2	2.50	1.28	NO	34.08	1.001	2.68e4	1.05e6	2.78	11.2	1.02	db
3	200131R1_3	10.0	1.21	NO	34.08	1.000	1.13e5	1.13e6	10.8	8.3	0.998	db
4	200131R1_4	50.0	1.22	NO	34.09	1.001	4.87e5	1.11e6	47.7	-4.7	0.878	db
5	200131R1_5	200	1.17	NO	34.07	1.000	2.21e6	1.24e6	193	-3.4	0.890	db
6	200131R1_6	1500	1.22	NO	34.09	1.001	2.03e7	1.56e6	1410	-5.7	0.868	db

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

Response Factor: 0.9182
 RRF SD: 0.0596016, Relative SD: 6.49114
 Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.36	NO	34.38	1.000	9.78e3	9.08e5	1.17	-6.1	0.862	MM
2	200131R1_2	2.50	1.21	NO	34.35	1.000	2.43e4	9.77e5	2.71	8.3	0.995	bb

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

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
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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	200131R1_3	10.0	1.18	NO	34.36	1.000	1.03e5	1.04e6	10.8	8.0	0.991	bb
4	200131R1_4	50.0	1.22	NO	34.37	1.001	4.43e5	1.02e6	47.4	-5.3	0.870	bb
5	200131R1_5	200	1.22	NO	34.35	1.001	2.05e6	1.15e6	195	-2.7	0.893	bb
6	200131R1_6	1500	1.22	NO	34.37	1.001	1.94e7	1.44e6	1470	-2.2	0.898	bb

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

Response Factor: 0.923064
 RRF SD: 0.0512135, Relative SD: 5.54821
 Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.04	NO	37.92	1.000	8.20e3	7.05e5	1.26	0.7	0.930	bb
2	200131R1_2	2.50	1.06	NO	37.88	1.000	1.88e4	7.60e5	2.69	7.4	0.991	bb
3	200131R1_3	10.0	1.02	NO	37.90	1.001	7.44e4	7.62e5	10.6	5.8	0.976	bb
4	200131R1_4	50.0	1.01	NO	37.90	1.000	3.45e5	7.83e5	47.7	-4.7	0.880	bb
5	200131R1_5	200	1.00	NO	37.88	1.000	1.57e6	8.87e5	192	-4.0	0.886	bb
6	200131R1_6	1500	1.01	NO	37.91	1.001	1.45e7	1.10e6	1420	-5.2	0.875	bb

Compound name: OCDD

Response Factor: 0.974578
 RRF SD: 0.0610366, Relative SD: 6.26287
 Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	2.50	0.90	NO	40.92	1.000	1.61e4	1.29e6	2.55	2.2	0.996	bd
2	200131R1_2	5.00	0.89	NO	40.90	1.000	3.84e4	1.46e6	5.41	8.2	1.05	bd
3	200131R1_3	20.0	0.88	NO	40.90	1.000	1.46e5	1.41e6	21.2	5.9	1.03	bd
4	200131R1_4	100	0.86	NO	40.90	1.000	6.76e5	1.48e6	93.7	-6.3	0.914	MM
5	200131R1_5	400	0.87	NO	40.90	1.000	3.13e6	1.69e6	379	-5.2	0.924	bb
6	200131R1_6	3000	0.83	NO	40.92	1.000	2.97e7	2.14e6	2850	-4.8	0.927	bb

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

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
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Compound name: 2,3,7,8-TCDF

Response Factor: 0.801975

RRF SD: 0.0524877, Relative SD: 6.54481

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	0.250	0.73	NO	24.85	1.001	3.48e3	1.69e6	0.257	2.8	0.824	bb
2	200131R1_2	0.500	0.74	NO	24.82	1.001	8.24e3	1.87e6	0.549	9.9	0.881	bb
3	200131R1_3	2.00	0.71	NO	24.82	1.001	3.25e4	1.95e6	2.08	4.0	0.834	bb
4	200131R1_4	10.0	0.73	NO	24.82	1.001	1.47e5	1.92e6	9.50	-5.0	0.762	bb
5	200131R1_5	40.0	0.74	NO	24.81	1.001	5.87e5	1.96e6	37.3	-6.7	0.748	bb
6	200131R1_6	300	0.74	NO	24.82	1.001	5.37e6	2.35e6	285	-4.9	0.763	bb

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

Response Factor: 0.907368

RRF SD: 0.0556686, Relative SD: 6.13518

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.54	NO	29.39	1.000	1.54e4	1.46e6	1.16	-7.1	0.843	MM
2	200131R1_2	2.50	1.49	NO	29.35	1.000	4.02e4	1.66e6	2.66	6.5	0.967	bb
3	200131R1_3	10.0	1.55	NO	29.35	1.000	1.82e5	1.85e6	10.8	8.5	0.984	bb
4	200131R1_4	50.0	1.54	NO	29.37	1.000	7.66e5	1.72e6	49.2	-1.7	0.892	bb
5	200131R1_5	200	1.53	NO	29.34	1.000	3.44e6	1.96e6	193	-3.5	0.875	bb
6	200131R1_6	1500	1.52	NO	29.37	1.000	3.24e7	2.45e6	1460	-2.7	0.883	bb

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

Response Factor: 0.951581

RRF SD: 0.0710528, Relative SD: 7.46682

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.39	NO	30.36	1.000	1.52e4	1.40e6	1.14	-9.0	0.866	bb
2	200131R1_2	2.50	1.49	NO	30.33	1.000	4.18e4	1.60e6	2.74	9.7	1.04	bb

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

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

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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	200131R1_3	10.0	1.52	NO	30.33	1.000	1.83e5	1.77e6	10.9	8.5	1.03	bb
4	200131R1_4	50.0	1.52	NO	30.33	1.000	7.42e5	1.63e6	48.0	-4.1	0.913	bb
5	200131R1_5	200	1.52	NO	30.32	1.000	3.55e6	1.92e6	195	-2.7	0.926	bb
6	200131R1_6	1500	1.53	NO	30.33	1.000	3.27e7	2.35e6	1460	-2.5	0.928	bb

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

Response Factor: 0.862294

RRF SD: 0.0432122, Relative SD: 5.0113

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.16	NO	33.13	1.000	1.04e4	9.82e5	1.22	-2.1	0.844	MM
2	200131R1_2	2.50	1.16	NO	33.10	1.000	2.37e4	1.03e6	2.66	6.4	0.917	bd
3	200131R1_3	10.0	1.18	NO	33.11	1.000	1.05e5	1.14e6	10.6	6.5	0.918	bd
4	200131R1_4	50.0	1.16	NO	33.13	1.000	4.53e5	1.09e6	48.4	-3.3	0.834	dd
5	200131R1_5	200	1.16	NO	33.10	1.001	2.04e6	1.23e6	192	-4.1	0.827	bd
6	200131R1_6	1500	1.16	NO	33.12	1.000	1.94e7	1.55e6	1450	-3.4	0.833	bd

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

Response Factor: 0.841382

RRF SD: 0.0466581, Relative SD: 5.54541

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.21	NO	33.26	1.001	1.06e4	1.07e6	1.17	-6.2	0.789	MM
2	200131R1_2	2.50	1.19	NO	33.23	1.001	2.67e4	1.18e6	2.69	7.5	0.904	MM
3	200131R1_3	10.0	1.15	NO	33.24	1.001	1.15e5	1.29e6	10.6	6.3	0.894	db
4	200131R1_4	50.0	1.16	NO	33.24	1.000	5.01e5	1.23e6	48.3	-3.3	0.813	db
5	200131R1_5	200	1.15	NO	33.22	1.000	2.41e6	1.46e6	196	-1.9	0.825	db
6	200131R1_6	1500	1.16	NO	33.24	1.000	2.16e7	1.75e6	1470	-2.3	0.822	db

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

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

Response Factor: 0.898194

RRF SD: 0.0533025, Relative SD: 5.9344

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.07	NO	33.84	1.000	1.01e4	9.62e5	1.17	-6.1	0.844	bb
2	200131R1_2	2.50	1.21	NO	33.81	1.000	2.55e4	1.06e6	2.67	6.7	0.958	bb
3	200131R1_3	10.0	1.14	NO	33.82	1.001	1.14e5	1.17e6	10.8	8.3	0.972	bb
4	200131R1_4	50.0	1.16	NO	33.82	1.000	4.82e5	1.11e6	48.4	-3.3	0.869	bb
5	200131R1_5	200	1.17	NO	33.80	1.000	2.21e6	1.27e6	194	-2.8	0.873	bb
6	200131R1_6	1500	1.17	NO	33.82	1.000	2.08e7	1.59e6	1460	-2.8	0.873	bb

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

Response Factor: 0.857779

RRF SD: 0.0530165, Relative SD: 6.18067

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.12	NO	34.74	1.000	9.51e3	8.96e5	1.24	-1.0	0.849	bb
2	200131R1_2	2.50	1.18	NO	34.71	1.000	2.15e4	9.11e5	2.76	10.2	0.946	bb
3	200131R1_3	10.0	1.17	NO	34.72	1.001	8.71e4	9.71e5	10.5	4.6	0.897	MM
4	200131R1_4	50.0	1.15	NO	34.72	1.000	3.90e5	9.57e5	47.6	-4.9	0.816	bb
5	200131R1_5	200	1.16	NO	34.70	1.000	1.74e6	1.06e6	191	-4.6	0.818	bb
6	200131R1_6	1500	1.17	NO	34.72	1.000	1.68e7	1.37e6	1430	-4.4	0.820	bb

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

Response Factor: 0.851072

RRF SD: 0.0458765, Relative SD: 5.39044

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	0.94	NO	36.48	1.000	7.60e3	7.37e5	1.21	-3.0	0.826	bb
2	200131R1_2	2.50	0.99	NO	36.47	1.001	1.79e4	7.82e5	2.70	7.9	0.918	bd

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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	200131R1_3	10.0	0.96	NO	36.46	1.000	7.21e4	8.00e5	10.6	5.9	0.901	bd
4	200131R1_4	50.0	0.96	NO	36.47	1.001	3.29e5	8.01e5	48.2	-3.5	0.821	bb
5	200131R1_5	200	0.97	NO	36.45	1.000	1.46e6	8.88e5	193	-3.4	0.822	bb
6	200131R1_6	1500	0.96	NO	36.47	1.000	1.37e7	1.12e6	1440	-3.9	0.818	bb

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

Response Factor: 0.979894

RRF SD: 0.0488516, Relative SD: 4.9854

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	0.96	NO	38.50	1.000	5.89e3	5.04e5	1.19	-4.7	0.934	MM
2	200131R1_2	2.50	0.97	NO	38.48	1.000	1.47e4	5.63e5	2.66	6.4	1.04	bb
3	200131R1_3	10.0	0.96	NO	38.49	1.000	5.91e4	5.68e5	10.6	6.2	1.04	bb
4	200131R1_4	50.0	0.97	NO	38.50	1.000	2.74e5	5.80e5	48.2	-3.6	0.945	bb
5	200131R1_5	200	0.96	NO	38.48	1.000	1.25e6	6.58e5	194	-2.9	0.952	bb
6	200131R1_6	1500	0.96	NO	38.50	1.000	1.20e7	8.31e5	1480	-1.5	0.966	bb

Compound name: OCDF

Response Factor: 0.805548

RRF SD: 0.0471476, Relative SD: 5.85286

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	2.50	0.85	NO	41.10	1.000	1.39e4	1.44e6	2.40	-4.0	0.773	bb
2	200131R1_2	5.00	0.87	NO	41.08	1.000	3.50e4	1.59e6	5.46	9.2	0.880	bb
3	200131R1_3	20.0	0.87	NO	41.09	1.000	1.37e5	1.61e6	21.1	5.5	0.850	MM
4	200131R1_4	100	0.85	NO	41.10	1.000	6.45e5	1.67e6	95.6	-4.4	0.770	bb
5	200131R1_5	400	0.86	NO	41.09	1.000	2.92e6	1.87e6	388	-3.1	0.781	bb
6	200131R1_6	3000	0.86	NO	41.10	1.000	2.81e7	2.40e6	2900	-3.3	0.779	bb

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

Response Factor: 1.19852

RRF SD: 0.0939444, Relative SD: 7.83835

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.79	NO	25.72	1.026	1.21e6	9.30e5	109	9.0	1.31	bb
2	200131R1_2	100	0.79	NO	25.67	1.026	1.37e6	1.27e6	90.2	-9.8	1.08	bb
3	200131R1_3	100	0.79	NO	25.67	1.026	1.44e6	1.31e6	91.3	-8.7	1.09	bb
4	200131R1_4	100	0.79	NO	25.67	1.026	1.42e6	1.19e6	99.9	-0.1	1.20	bb
5	200131R1_5	100	0.80	NO	25.66	1.026	1.45e6	1.18e6	103	2.7	1.23	bb
6	200131R1_6	100	0.78	NO	25.69	1.026	1.75e6	1.37e6	107	6.9	1.28	bb

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

Response Factor: 0.966657

RRF SD: 0.113301, Relative SD: 11.7209

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.64	NO	30.65	1.222	9.52e5	9.30e5	106	5.9	1.02	bb
2	200131R1_2	100	0.63	NO	30.61	1.223	1.05e6	1.27e6	85.4	-14.6	0.826	bb
3	200131R1_3	100	0.64	NO	30.62	1.223	1.14e6	1.31e6	90.0	-10.0	0.870	bb
4	200131R1_4	100	0.65	NO	30.62	1.223	1.09e6	1.19e6	95.0	-5.0	0.918	bb
5	200131R1_5	100	0.64	NO	30.61	1.223	1.23e6	1.18e6	108	7.9	1.04	bb
6	200131R1_6	100	0.64	NO	30.62	1.223	1.53e6	1.37e6	116	15.8	1.12	bb

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

Response Factor: 0.873915

RRF SD: 0.0797425, Relative SD: 9.12474

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.26	NO	33.99	1.014	7.72e5	8.41e5	105	5.1	0.918	bd
2	200131R1_2	100	1.27	NO	33.96	1.014	8.79e5	1.13e6	89.1	-10.9	0.778	bd

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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	200131R1_3	100	1.28	NO	33.97	1.014	9.69e5	1.23e6	90.5	-9.5	0.791	bd
4	200131R1_4	100	1.26	NO	33.98	1.014	9.08e5	1.05e6	98.8	-1.2	0.863	bd
5	200131R1_5	100	1.27	NO	33.96	1.014	1.04e6	1.15e6	104	3.8	0.907	bd
6	200131R1_6	100	1.28	NO	33.98	1.014	1.30e6	1.32e6	113	12.8	0.986	bd

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

Response Factor: 1.04579
 RRF SD: 0.10317, Relative SD: 9.86527
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.24	NO	34.09	1.017	9.31e5	8.41e5	106	5.9	1.11	db
2	200131R1_2	100	1.25	NO	34.06	1.017	1.05e6	1.13e6	88.6	-11.4	0.927	db
3	200131R1_3	100	1.25	NO	34.07	1.017	1.13e6	1.23e6	88.2	-11.8	0.923	db
4	200131R1_4	100	1.25	NO	34.07	1.017	1.11e6	1.05e6	101	0.9	1.05	db
5	200131R1_5	100	1.26	NO	34.06	1.017	1.24e6	1.15e6	103	3.3	1.08	db
6	200131R1_6	100	1.27	NO	34.07	1.017	1.56e6	1.32e6	113	13.1	1.18	db

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

Response Factor: 0.974375
 RRF SD: 0.10254, Relative SD: 10.5236
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.26	NO	34.37	1.025	9.08e5	8.41e5	111	10.8	1.08	bb
2	200131R1_2	100	1.24	NO	34.34	1.025	9.77e5	1.13e6	88.8	-11.2	0.865	bb
3	200131R1_3	100	1.23	NO	34.35	1.025	1.04e6	1.23e6	87.1	-12.9	0.848	bb
4	200131R1_4	100	1.26	NO	34.35	1.025	1.02e6	1.05e6	99.4	-0.6	0.968	bb
5	200131R1_5	100	1.22	NO	34.33	1.025	1.15e6	1.15e6	102	2.1	0.995	bb
6	200131R1_6	100	1.27	NO	34.35	1.025	1.44e6	1.32e6	112	11.8	1.09	bb

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

Response Factor: 0.747228

RRF SD: 0.0868418, Relative SD: 11.6219

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.04	NO	37.91	1.131	7.05e5	8.41e5	112	12.3	0.839	bb
2	200131R1_2	100	1.03	NO	37.88	1.131	7.60e5	1.13e6	90.0	-10.0	0.673	bb
3	200131R1_3	100	1.05	NO	37.88	1.131	7.62e5	1.23e6	83.2	-16.8	0.622	bb
4	200131R1_4	100	1.05	NO	37.88	1.131	7.83e5	1.05e6	99.7	-0.3	0.745	bb
5	200131R1_5	100	1.05	NO	37.88	1.131	8.87e5	1.15e6	103	3.2	0.771	bb
6	200131R1_6	100	1.03	NO	37.88	1.131	1.10e6	1.32e6	112	11.6	0.834	bb

Compound name: 13C-OCDD

Response Factor: 0.706533

RRF SD: 0.0850665, Relative SD: 12.04

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	200	0.89	NO	40.90	1.220	1.29e6	8.41e5	218	8.9	0.770	bb
2	200131R1_2	200	0.92	NO	40.88	1.221	1.46e6	1.13e6	183	-8.6	0.646	bd
3	200131R1_3	200	0.90	NO	40.89	1.221	1.41e6	1.23e6	163	-18.5	0.575	bb
4	200131R1_4	200	0.90	NO	40.90	1.221	1.48e6	1.05e6	199	-0.4	0.704	bb
5	200131R1_5	200	0.86	NO	40.89	1.221	1.69e6	1.15e6	208	4.0	0.735	bb
6	200131R1_6	200	0.84	NO	40.90	1.221	2.14e6	1.32e6	229	14.6	0.809	bb

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

Response Factor: 1.06529

RRF SD: 0.0915828, Relative SD: 8.59701

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.77	NO	24.84	0.990	1.69e6	1.42e6	112	11.8	1.19	bb
2	200131R1_2	100	0.78	NO	24.79	0.990	1.87e6	1.95e6	89.9	-10.1	0.958	bb

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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	200131R1_3	100	0.76	NO	24.79	0.990	1.95e6	2.03e6	90.3	-9.7	0.962	bb
4	200131R1_4	100	0.77	NO	24.79	0.990	1.92e6	1.80e6	100	0.3	1.07	bb
5	200131R1_5	100	0.77	NO	24.78	0.990	1.96e6	1.80e6	103	2.6	1.09	bb
6	200131R1_6	100	0.77	NO	24.81	0.990	2.35e6	2.10e6	105	5.1	1.12	bb

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

Response Factor: 1.00172

RRF SD: 0.117905, Relative SD: 11.7703

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.57	NO	29.37	1.171	1.46e6	1.42e6	103	3.0	1.03	bb
2	200131R1_2	100	1.56	NO	29.34	1.172	1.66e6	1.95e6	84.9	-15.1	0.851	bb
3	200131R1_3	100	1.61	NO	29.34	1.172	1.85e6	2.03e6	91.2	-8.8	0.914	bb
4	200131R1_4	100	1.59	NO	29.35	1.173	1.72e6	1.80e6	95.2	-4.8	0.953	bb
5	200131R1_5	100	1.60	NO	29.32	1.172	1.96e6	1.80e6	109	9.1	1.09	bb
6	200131R1_6	100	1.59	NO	29.35	1.172	2.45e6	2.10e6	117	16.5	1.17	bb

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

Response Factor: 0.961692

RRF SD: 0.117094, Relative SD: 12.1758

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.59	NO	30.35	1.210	1.40e6	1.42e6	103	2.7	0.988	db
2	200131R1_2	100	1.59	NO	30.32	1.211	1.60e6	1.95e6	85.2	-14.8	0.820	db
3	200131R1_3	100	1.56	NO	30.32	1.211	1.77e6	2.03e6	90.8	-9.2	0.873	bb
4	200131R1_4	100	1.61	NO	30.32	1.211	1.63e6	1.80e6	93.8	-6.2	0.902	db
5	200131R1_5	100	1.59	NO	30.30	1.211	1.92e6	1.80e6	111	10.9	1.07	db
6	200131R1_6	100	1.62	NO	30.33	1.211	2.35e6	2.10e6	117	16.5	1.12	db

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

Response Factor: 1.0492

RRF SD: 0.111678, Relative SD: 10.6441

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.13	0.988	9.82e5	8.41e5	111	11.3	1.17	bd
2	200131R1_2	100	0.50	NO	33.09	0.988	1.03e6	1.13e6	87.3	-12.7	0.915	bd
3	200131R1_3	100	0.51	NO	33.10	0.988	1.14e6	1.23e6	88.8	-11.2	0.932	bd
4	200131R1_4	100	0.50	NO	33.11	0.988	1.09e6	1.05e6	98.5	-1.5	1.03	bd
5	200131R1_5	100	0.51	NO	33.08	0.988	1.23e6	1.15e6	102	2.0	1.07	bd
6	200131R1_6	100	0.50	NO	33.11	0.989	1.55e6	1.32e6	112	12.1	1.18	bd

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

Response Factor: 1.18988

RRF SD: 0.120357, Relative SD: 10.1151

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.24	0.992	1.07e6	8.41e5	107	7.4	1.28	db
2	200131R1_2	100	0.50	NO	33.21	0.992	1.18e6	1.13e6	88.0	-12.0	1.05	db
3	200131R1_3	100	0.51	NO	33.22	0.992	1.29e6	1.23e6	88.2	-11.8	1.05	db
4	200131R1_4	100	0.51	NO	33.23	0.992	1.23e6	1.05e6	98.5	-1.5	1.17	db
5	200131R1_5	100	0.51	NO	33.21	0.992	1.46e6	1.15e6	107	6.7	1.27	db
6	200131R1_6	100	0.51	NO	33.23	0.992	1.75e6	1.32e6	111	11.2	1.32	db

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

Response Factor: 1.06623

RRF SD: 0.103589, Relative SD: 9.71549

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.83	1.009	9.62e5	8.41e5	107	7.2	1.14	bb
2	200131R1_2	100	0.50	NO	33.80	1.009	1.06e6	1.13e6	88.4	-11.6	0.943	bb

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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	200131R1_3	100	0.51	NO	33.79	1.009	1.17e6	1.23e6	89.3	-10.7	0.953	bb
4	200131R1_4	100	0.51	NO	33.81	1.009	1.11e6	1.05e6	99.0	-1.0	1.06	bb
5	200131R1_5	100	0.51	NO	33.78	1.009	1.27e6	1.15e6	103	3.4	1.10	bb
6	200131R1_6	100	0.50	NO	33.81	1.009	1.59e6	1.32e6	113	12.6	1.20	bb

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

Response Factor: 0.922357

RRF SD: 0.112781, Relative SD: 12.2275

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.52	NO	34.73	1.036	8.96e5	8.41e5	115	15.5	1.07	bd
2	200131R1_2	100	0.50	NO	34.70	1.036	9.11e5	1.13e6	87.5	-12.5	0.807	bb
3	200131R1_3	100	0.50	NO	34.70	1.036	9.71e5	1.23e6	85.9	-14.1	0.793	bb
4	200131R1_4	100	0.51	NO	34.71	1.036	9.57e5	1.05e6	98.7	-1.3	0.910	bb
5	200131R1_5	100	0.50	NO	34.69	1.036	1.06e6	1.15e6	100	0.1	0.923	bb
6	200131R1_6	100	0.52	NO	34.71	1.036	1.37e6	1.32e6	112	12.3	1.04	bb

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

Response Factor: 0.767165

RRF SD: 0.0861255, Relative SD: 11.2265

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.44	NO	36.47	1.088	7.37e5	8.41e5	114	14.2	0.876	bb
2	200131R1_2	100	0.43	NO	36.44	1.088	7.82e5	1.13e6	90.2	-9.8	0.692	bb
3	200131R1_3	100	0.42	NO	36.45	1.088	8.00e5	1.23e6	85.1	-14.9	0.653	bb
4	200131R1_4	100	0.43	NO	36.45	1.088	8.01e5	1.05e6	99.3	-0.7	0.762	bb
5	200131R1_5	100	0.44	NO	36.44	1.088	8.88e5	1.15e6	101	0.6	0.772	bb
6	200131R1_6	100	0.44	NO	36.46	1.088	1.12e6	1.32e6	111	10.6	0.848	bb

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

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.552323
 RRF SD: 0.0621028, Relative SD: 11.2439
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.44	NO	38.50	1.149	5.04e5	8.41e5	109	8.5	0.600	MM
2	200131R1_2	100	0.43	NO	38.47	1.149	5.63e5	1.13e6	90.3	-9.7	0.499	bb
3	200131R1_3	100	0.44	NO	38.48	1.149	5.68e5	1.23e6	83.9	-16.1	0.464	bb
4	200131R1_4	100	0.43	NO	38.48	1.148	5.80e5	1.05e6	99.8	-0.2	0.551	bb
5	200131R1_5	100	0.43	NO	38.47	1.149	6.58e5	1.15e6	104	3.6	0.572	bb
6	200131R1_6	100	0.43	NO	38.49	1.149	8.31e5	1.32e6	114	13.9	0.629	bb

Compound name: 13C-OCDF

Response Factor: 0.78941
 RRF SD: 0.0937006, Relative SD: 11.8697
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	200	0.88	NO	41.10	1.226	1.44e6	8.41e5	217	8.5	0.856	bb
2	200131R1_2	200	0.86	NO	41.07	1.226	1.59e6	1.13e6	178	-10.8	0.704	bb
3	200131R1_3	200	0.84	NO	41.08	1.226	1.61e6	1.23e6	167	-16.6	0.658	bb
4	200131R1_4	200	0.87	NO	41.08	1.226	1.67e6	1.05e6	202	0.8	0.796	bb
5	200131R1_5	200	0.86	NO	41.07	1.227	1.87e6	1.15e6	206	2.8	0.812	bb
6	200131R1_6	200	0.87	NO	41.09	1.227	2.40e6	1.32e6	230	15.2	0.910	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.17626
 RRF SD: 0.0677436, Relative SD: 5.75926
 Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	0.250			25.74	1.026	2.61e3	9.30e5	0.239	-4.6	1.12	bb
2	200131R1_2	0.500			25.70	1.027	7.49e3	1.27e6	0.502	0.3	1.18	bb

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

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	2.00			25.70	1.027	2.85e4	1.31e6	1.85	-7.7	1.09	bb
4	200131R1_4	10.0			25.70	1.027	1.40e5	1.19e6	10.0	0.4	1.18	bb
5	200131R1_5	40.0			25.69	1.027	5.71e5	1.18e6	41.0	2.6	1.21	bb
6	200131R1_6	200			25.70	1.026	3.51e6	1.37e6	218	8.9	1.28	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.78	NO	25.08	1.000	9.30e5	9.30e5	100	0.0	1.00	bb
2	200131R1_2	100	0.80	NO	25.03	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
3	200131R1_3	100	0.80	NO	25.03	1.000	1.31e6	1.31e6	100	0.0	1.00	bb
4	200131R1_4	100	0.80	NO	25.03	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	25.02	1.000	1.18e6	1.18e6	100	0.0	1.00	bb
6	200131R1_6	100	0.80	NO	25.05	1.000	1.37e6	1.37e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.79	NO	23.42	1.000	1.42e6	1.42e6	100	0.0	1.00	bd
2	200131R1_2	100	0.79	NO	23.35	1.000	1.95e6	1.95e6	100	0.0	1.00	bb
3	200131R1_3	100	0.79	NO	23.37	1.000	2.03e6	2.03e6	100	0.0	1.00	bb
4	200131R1_4	100	0.79	NO	23.37	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	23.35	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
6	200131R1_6	100	0.79	NO	23.39	1.000	2.10e6	2.10e6	100	0.0	1.00	bb

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

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.52	1.000	8.41e5	8.41e5	100	0.0	1.00	bb
2	200131R1_2	100	0.51	NO	33.49	1.000	1.13e6	1.13e6	100	0.0	1.00	bb
3	200131R1_3	100	0.51	NO	33.50	1.000	1.23e6	1.23e6	100	0.0	1.00	bb
4	200131R1_4	100	0.51	NO	33.51	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
5	200131R1_5	100	0.51	NO	33.49	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
6	200131R1_6	100	0.51	NO	33.50	1.000	1.32e6	1.32e6	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:48 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:18:51 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

	Name	ID	Acq.Date	Acq.Time
1	200131R1_1	ST200131R1_1 1613 CS0 19L2302	31-Jan-20	16:48:41
2	200131R1_2	ST200131R1_2 1613 CS1 19L2303	31-Jan-20	17:37:04
3	200131R1_3	ST200131R1_3 1613 CS2 19L2304	31-Jan-20	18:23:19
4	200131R1_4	ST200131R1_4 1613 CS3 19L2305	31-Jan-20	19:10:18
5	200131R1_5	ST200131R1_5 1613 CS4 19L2306	31-Jan-20	19:57:17
6	200131R1_6	ST200131R1_6 1613 CS5 19L2307	31-Jan-20	20:44:23
7	200131R1_7	SOLVENT BLANK	31-Jan-20	21:31:31
8	200131R1_8	SS200131R1_1 1613 SSS 19L2308	31-Jan-20	22:18:30
9	200131R1_9	ST200131R1_7 1613 CS3 19I1604	31-Jan-20	23:05:36
10	200131R1_10	B0A0133-BS1 OPR 1	31-Jan-20	23:52:35
11	200131R1_11	B0A0226-BS1 OPR 10	01-Feb-20	00:39:35
12	200131R1_12	SOLVENT BLANK	01-Feb-20	01:26:32
13	200131R1_13	B0A0133-BLK1 Method Blank 1	01-Feb-20	02:13:32
14	200131R1_14	B0A0226-BLK1 Method Blank 10	01-Feb-20	03:00:32
15	200131R1_15	1904161-10RE1 PDI-046SC-A-02-03-191001 ...	01-Feb-20	03:47:38
16	200131R1_16	1904161-16RE1 PDI-066SC-A-06-07-191011 ...	01-Feb-20	04:34:37
17	200131R1_17	1904207-04RE1 PDI-076SC-A-05-06-191013 ...	01-Feb-20	05:21:38
18	200131R1_18	1903647-05@2X PDI-067SC-B-06-08-191010 ...	01-Feb-20	06:08:35
19	200131R1_19	1903647-02@10X PDI-067SC-B-00-02-19101...	01-Feb-20	06:55:34

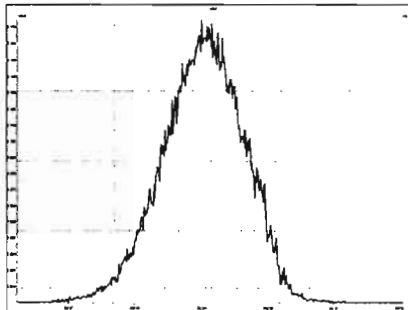
Experiment Calibration Report

MassLynx 4.1 SCN815

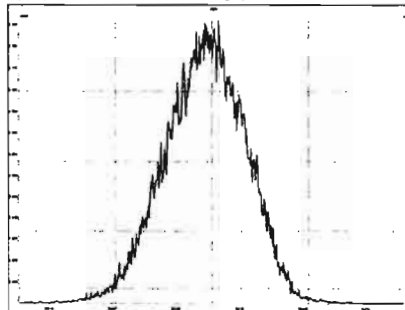
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Printed: Friday, January 31, 2020 16:41:39 Pacific Standard Time

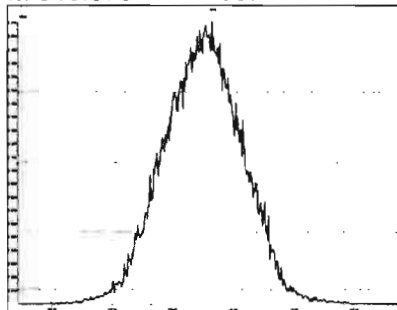
M 292.9824 R 10370



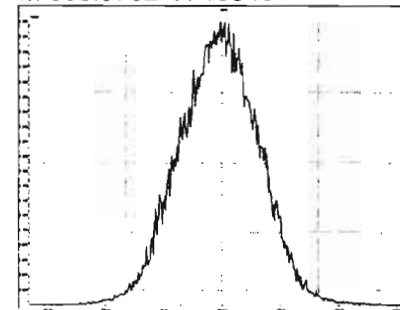
M 304.9824 R 10917



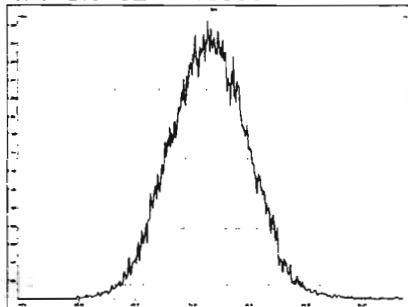
M 318.9792 R 10637



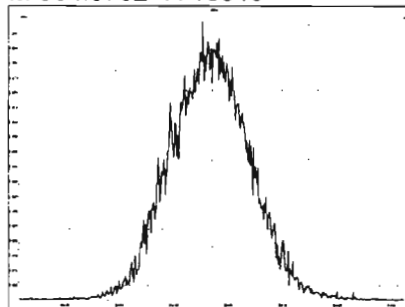
M 330.9792 R 10640



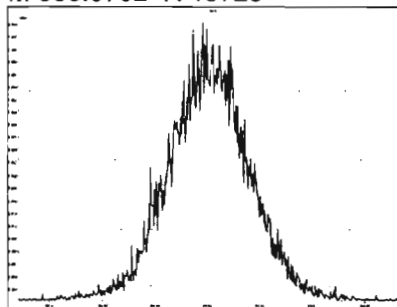
M 342.9792 R 10593



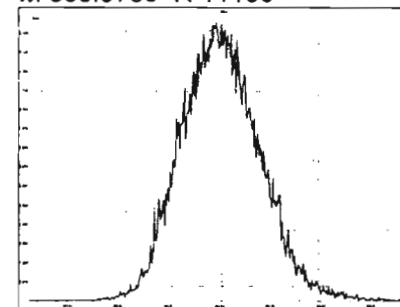
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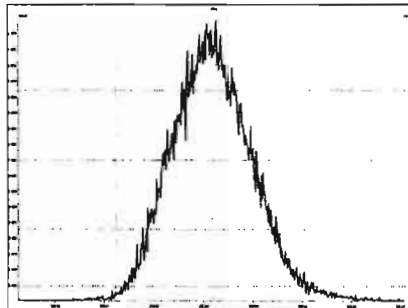
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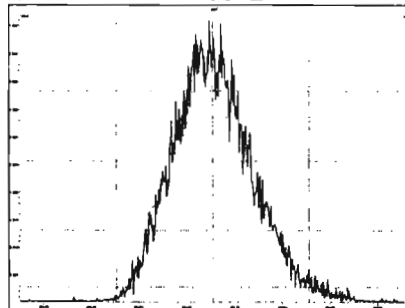
M 380.9760 R 11160



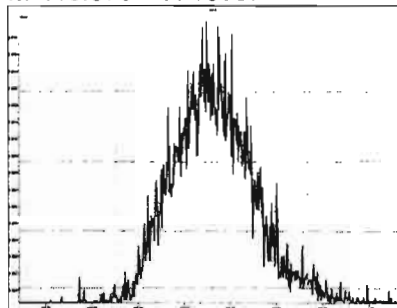
M 392.9760 R 11015



M 404.9760 R 10822



M 416.9760 R 10507



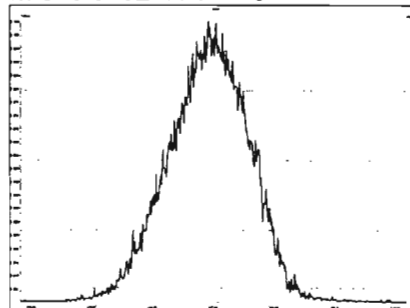
Experiment Calibration Report

MassLynx 4.1 SCN815

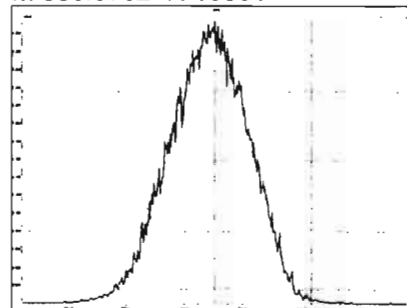
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Printed: Friday, January 31, 2020 16:42:23 Pacific Standard Time

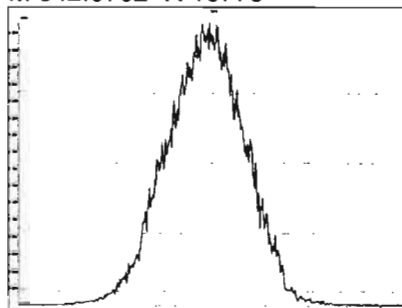
M 318.9792 R 11110



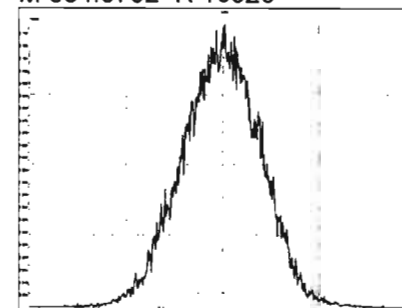
M 330.9792 R 10681



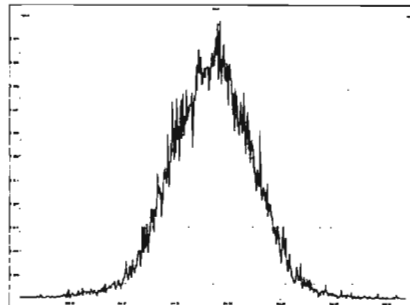
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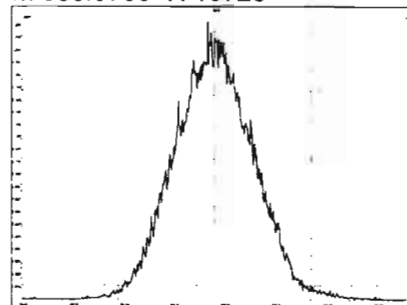
M 354.9792 R 10920



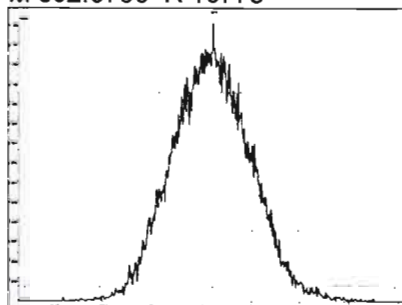
M 366.9792 R 10730



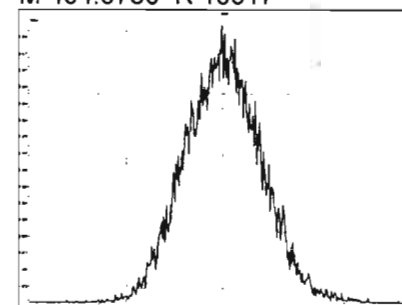
M 380.9760 R 10729



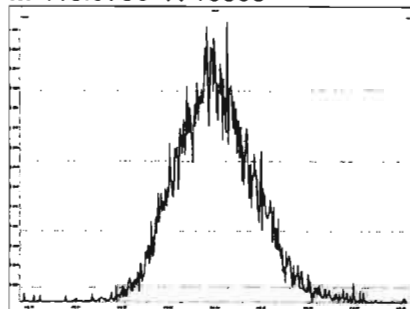
M 392.9760 R 10778



M 404.9760 R 10917



M 416.9760 R 10503



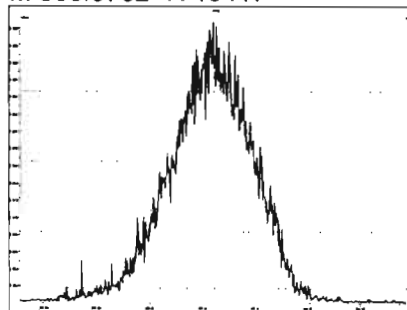
Experiment Calibration Report

MassLynx 4.1 SCN815

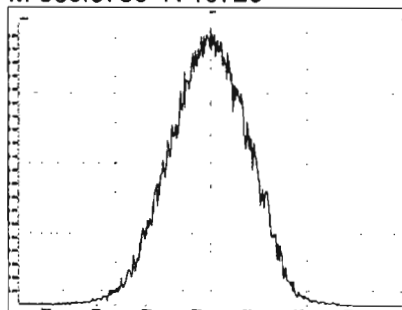
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Printed: Friday, January 31, 2020 16:43:30 Pacific Standard Time

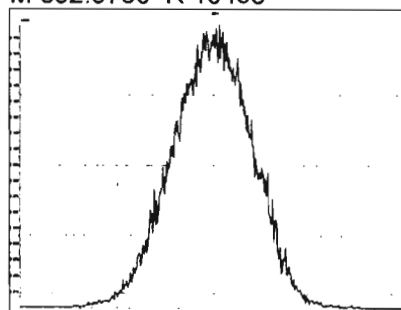
M 366.9792 R 10417



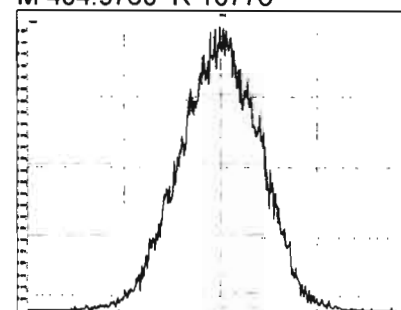
M 380.9760 R 10729



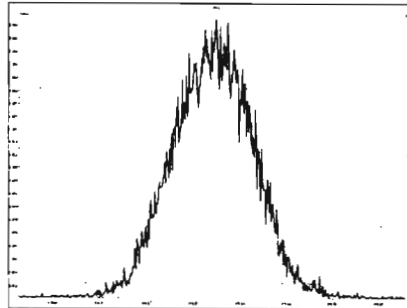
M 392.9760 R 10458



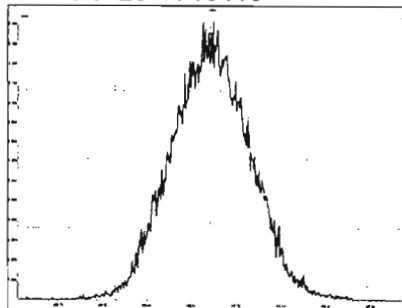
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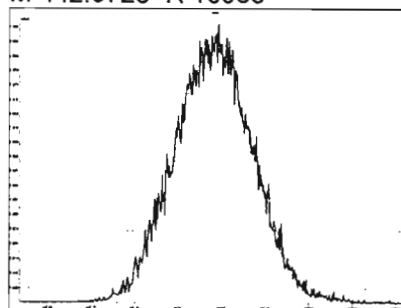
M 416.9760 R 10728



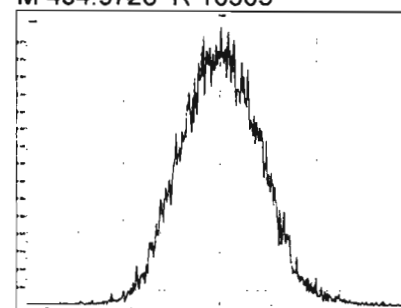
M 430.9728 R 10418



M 442.9728 R 10965



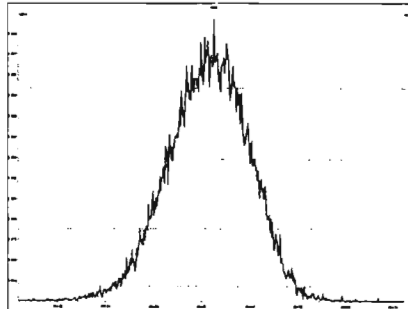
M 454.9728 R 10503



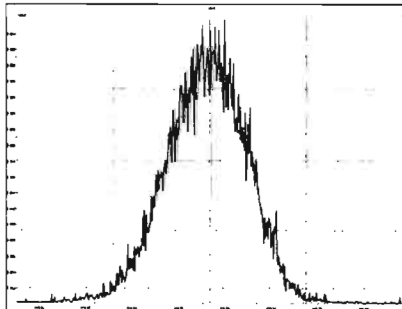
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Printed: Friday, January 31, 2020 16:44:27 Pacific Standard Time

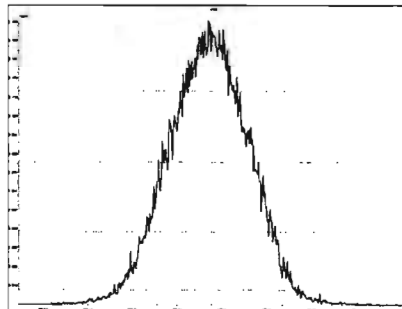
M 404.9760 R 10461



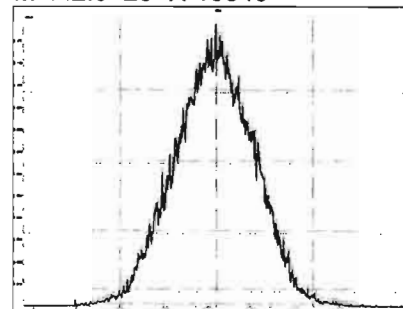
M 416.9760 R 10503



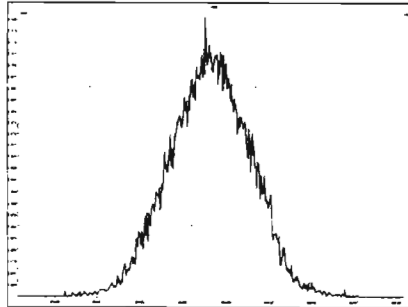
M 430.9728 R 10820



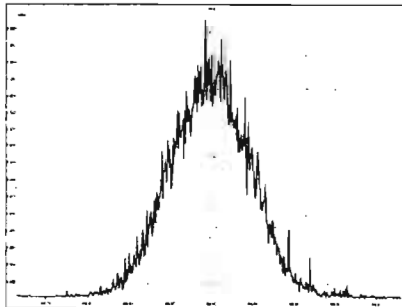
M 442.9728 R 10545



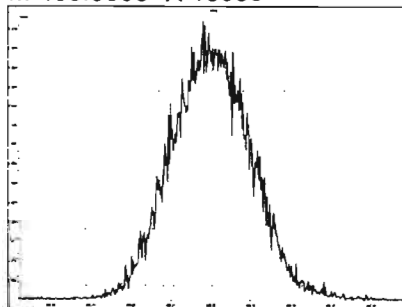
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M 466.9728 R 11014



M 480.9696 R 10965



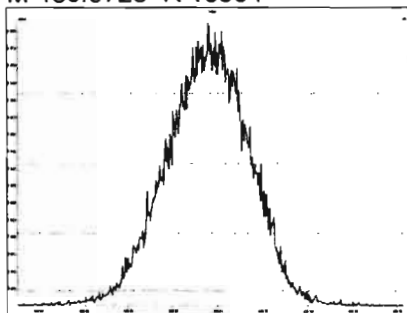
Experiment Calibration Report

MassLynx 4.1 SCN815

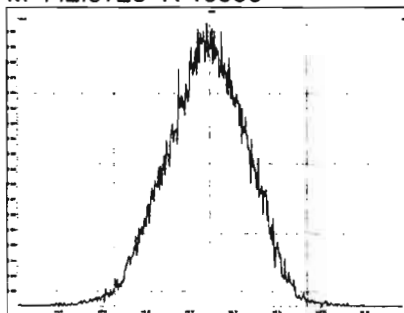
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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

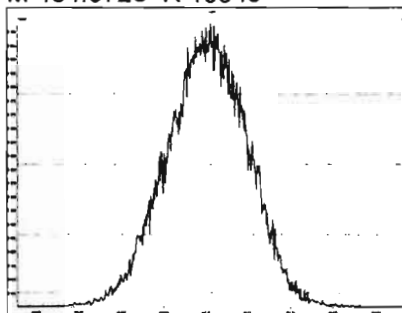
M 430.9728 R 10504



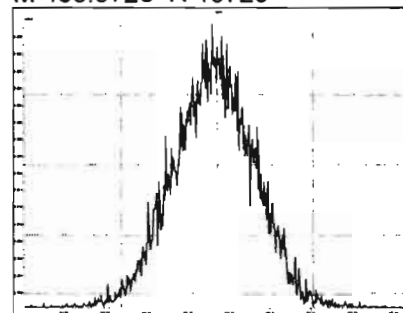
M 442.9728 R 10550



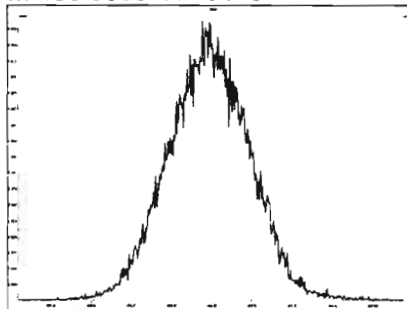
M 454.9728 R 10549



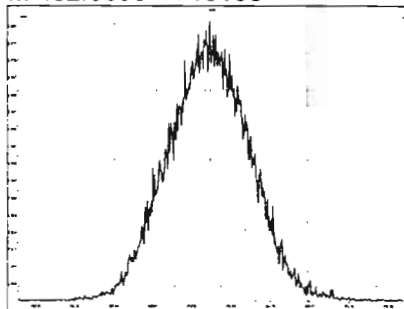
M 466.9728 R 10729



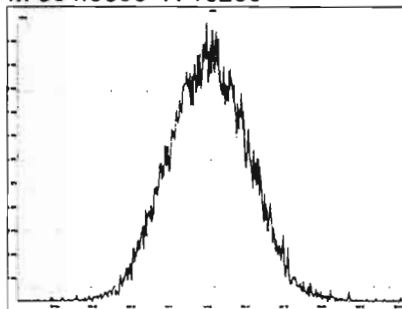
M 480.9696 R 10415



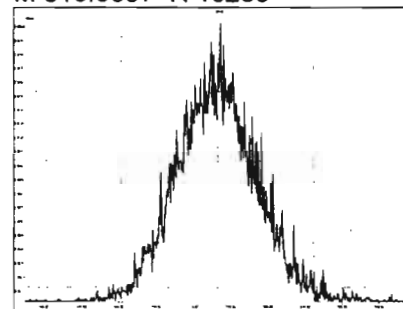
M 492.9696 R 10163



M 504.9696 R 10290



M 516.9697 R 10286



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:18:19 AM Pacific Standard Time

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

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

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.72
2	2 1,2,8,9-TCDD (Last)	26.66
3	3 1,2,4,7,9-PeCDD (First)	28.44
4	4 1,2,3,8,9-PeCDD (Last)	31.02
5	5 1,2,4,6,7,9-HxCDD (First)	32.51
6	6 1,2,3,7,8,9-HxCDD (Last)	34.37
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.85
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.90
9	9 1,3,6,8-TCDF (First)	19.63
10	10 1,2,8,9-TCDF (Last)	26.81
11	11 1,3,4,6,8-PeCDF (First)	26.77
12	12 1,2,3,8,9-PeCDF (Last)	31.26
13	13 1,2,3,4,6,8-HxCDF (First)	31.95
14	14 1,2,3,7,8,9-HxCDF (Last)	34.72
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.47
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.50

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time

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

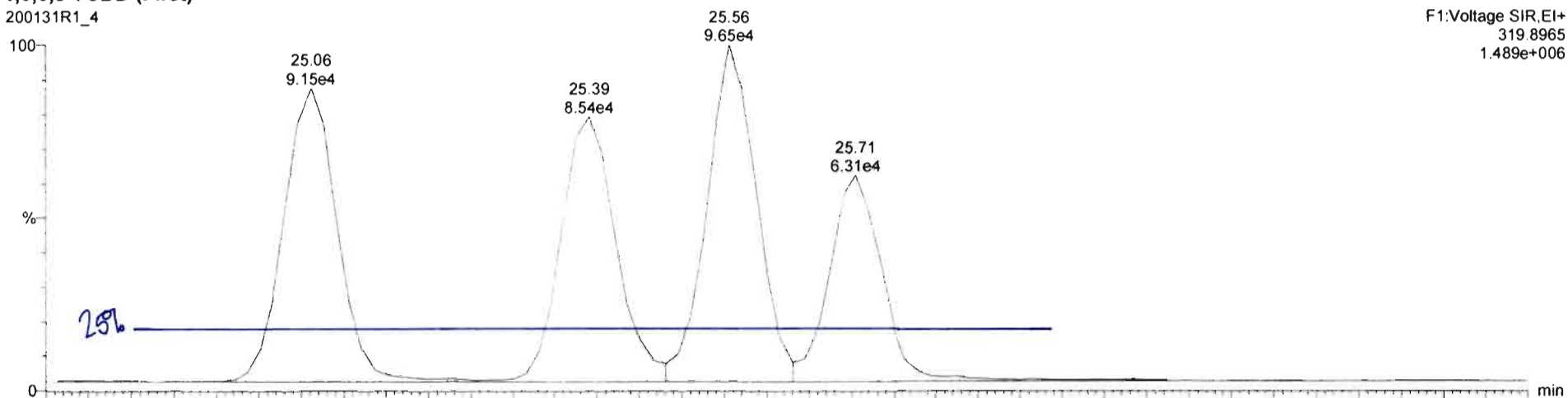
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

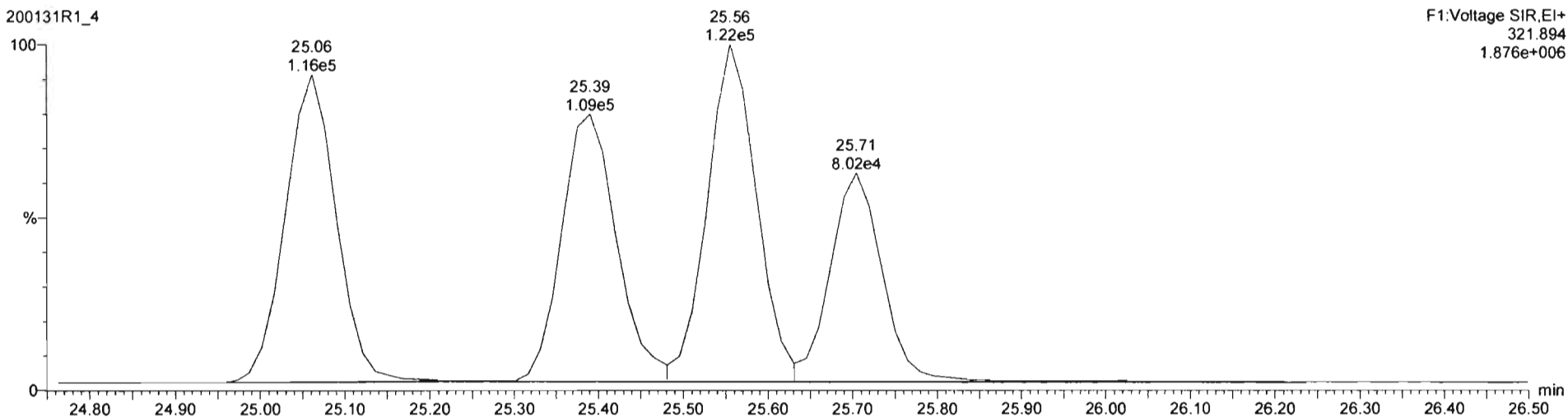
200131R1_4

F1:Voltage SIR,EI+
319.8965
1.489e+006



200131R1_4

F1:Voltage SIR,EI+
321.894
1.876e+006



Dataset: Untitled

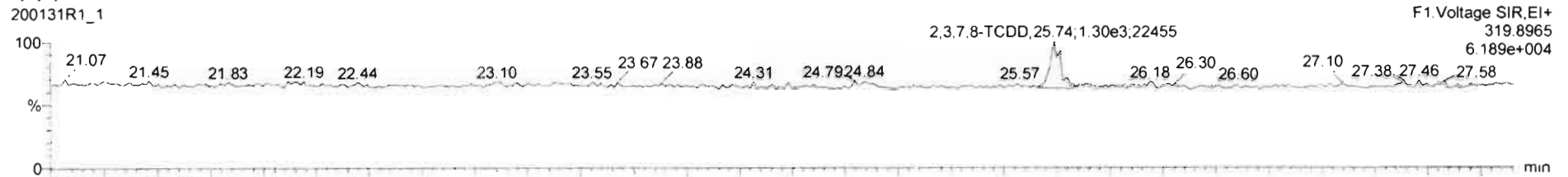
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: 02 Feb 2020 11:06:20

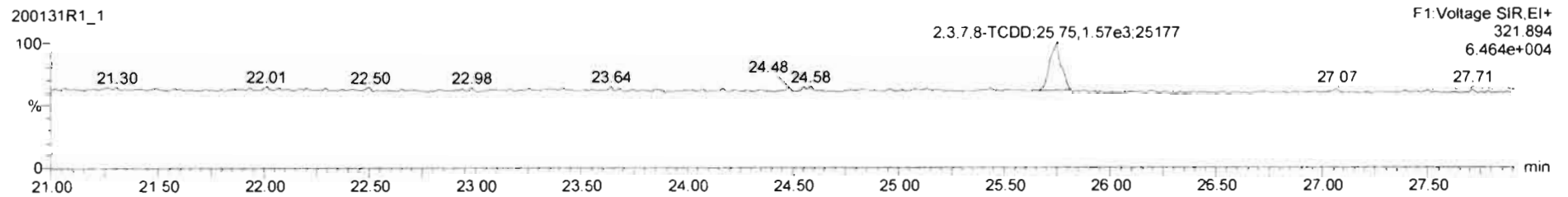
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200131R1_1

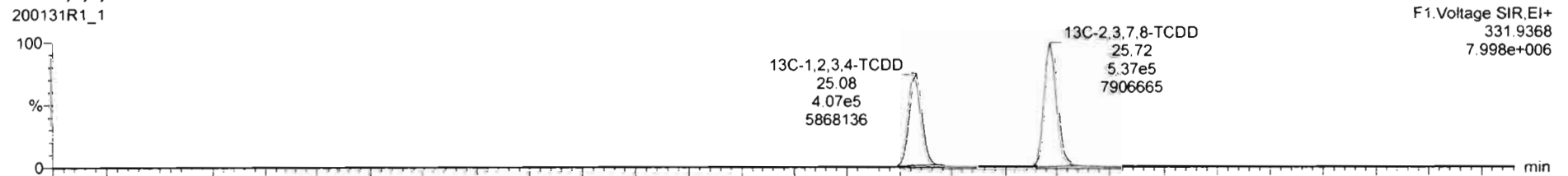


200131R1_1

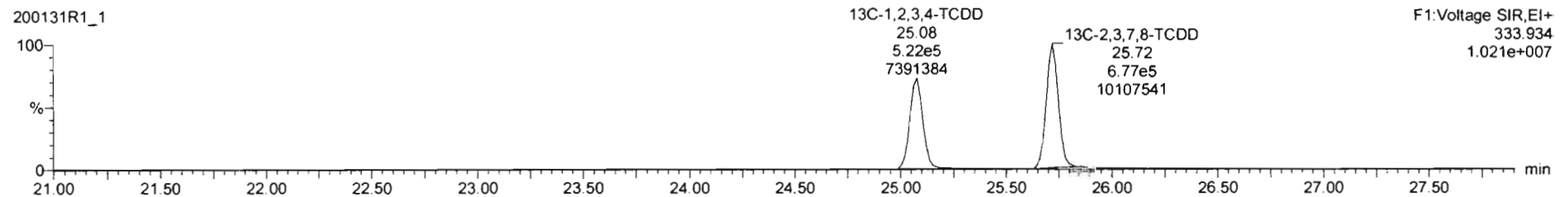


13C-2,3,7,8-TCDD

200131R1_1



200131R1_1



Dataset: Untitled

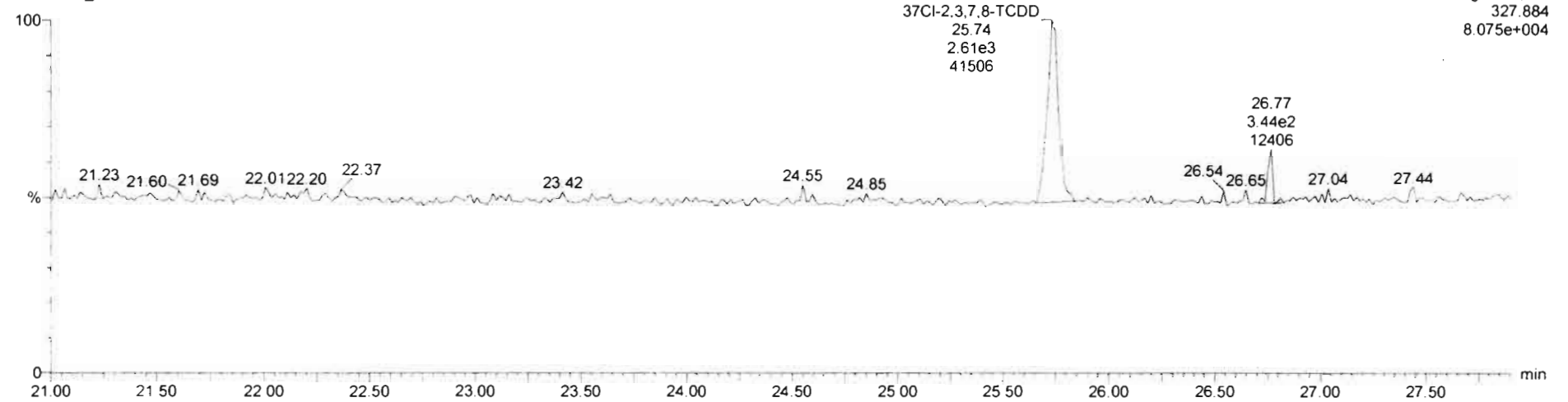
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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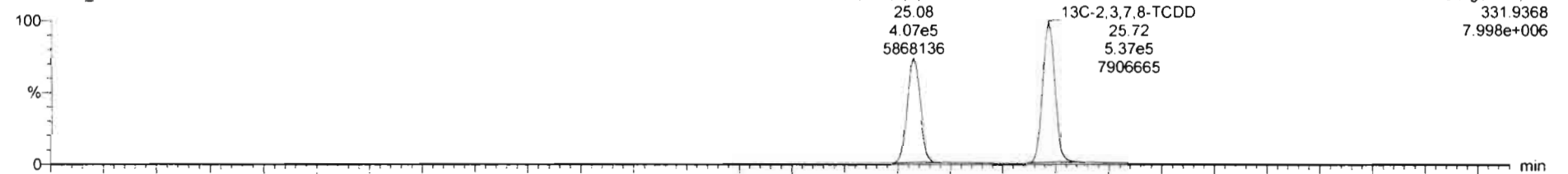
37Cl-2,3,7,8-TCDD

200131R1_1

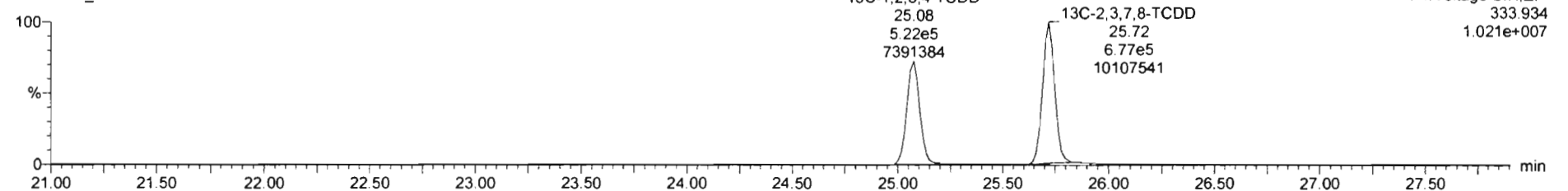


13C-1,2,3,4-TCDD

200131R1_1



200131R1_1



Dataset: Untitled

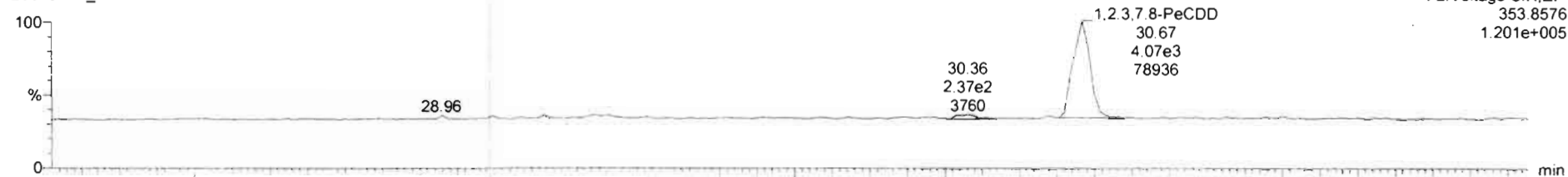
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

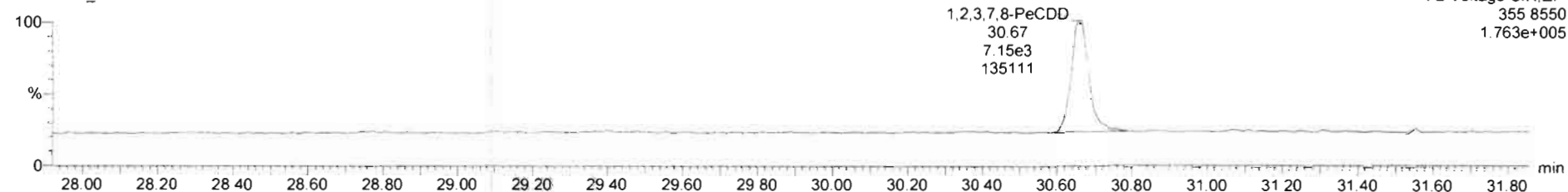
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1,2,3,7,8-PeCDD

200131R1_1

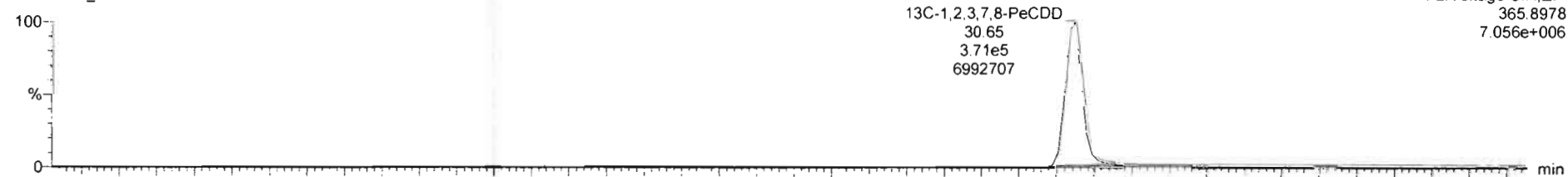


200131R1_1

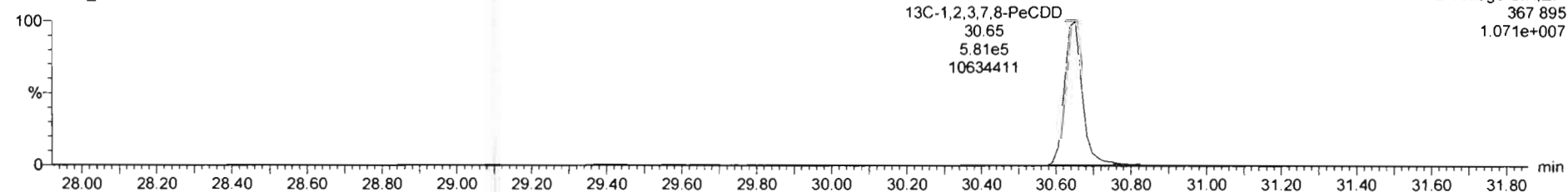


13C-1,2,3,7,8-PeCDD

200131R1_1



200131R1_1



Dataset: Untitled

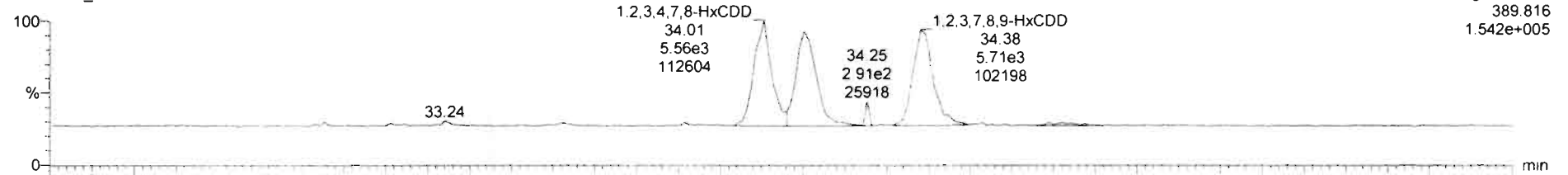
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

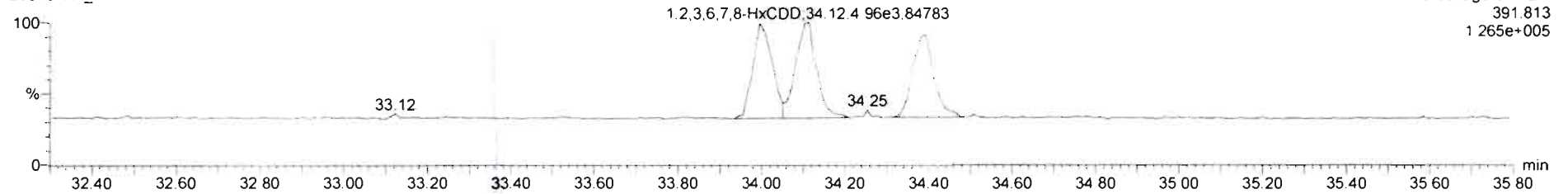
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1,2,3,4,7,8-HxCDD

200131R1_1

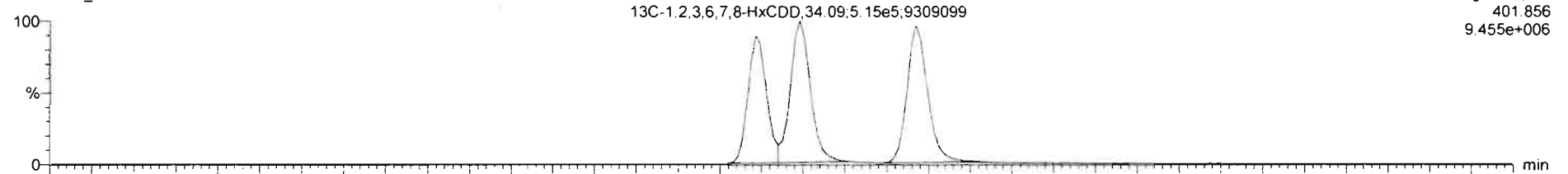


200131R1_1

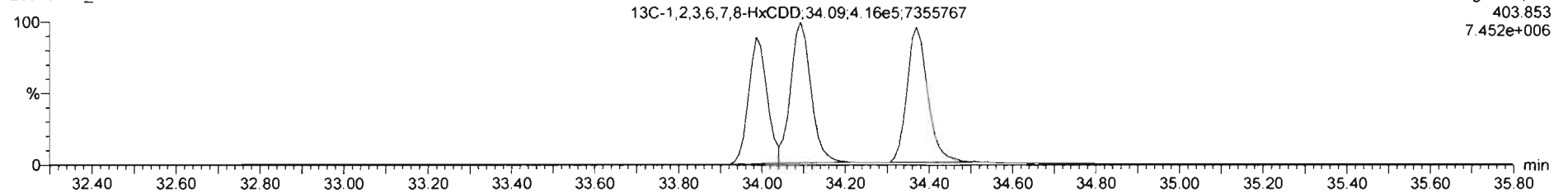


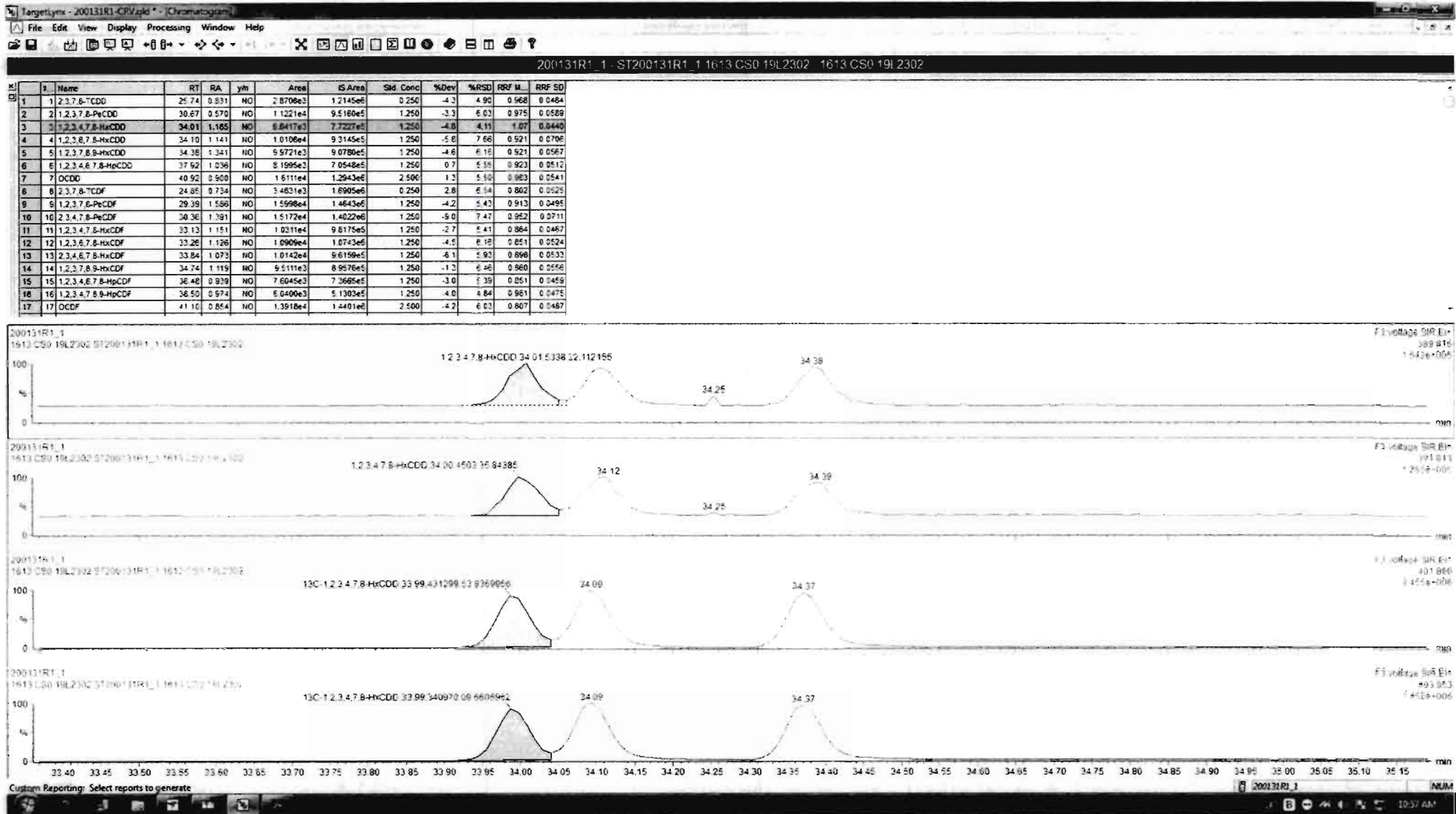
13C-1,2,3,4,7,8-HxCDD

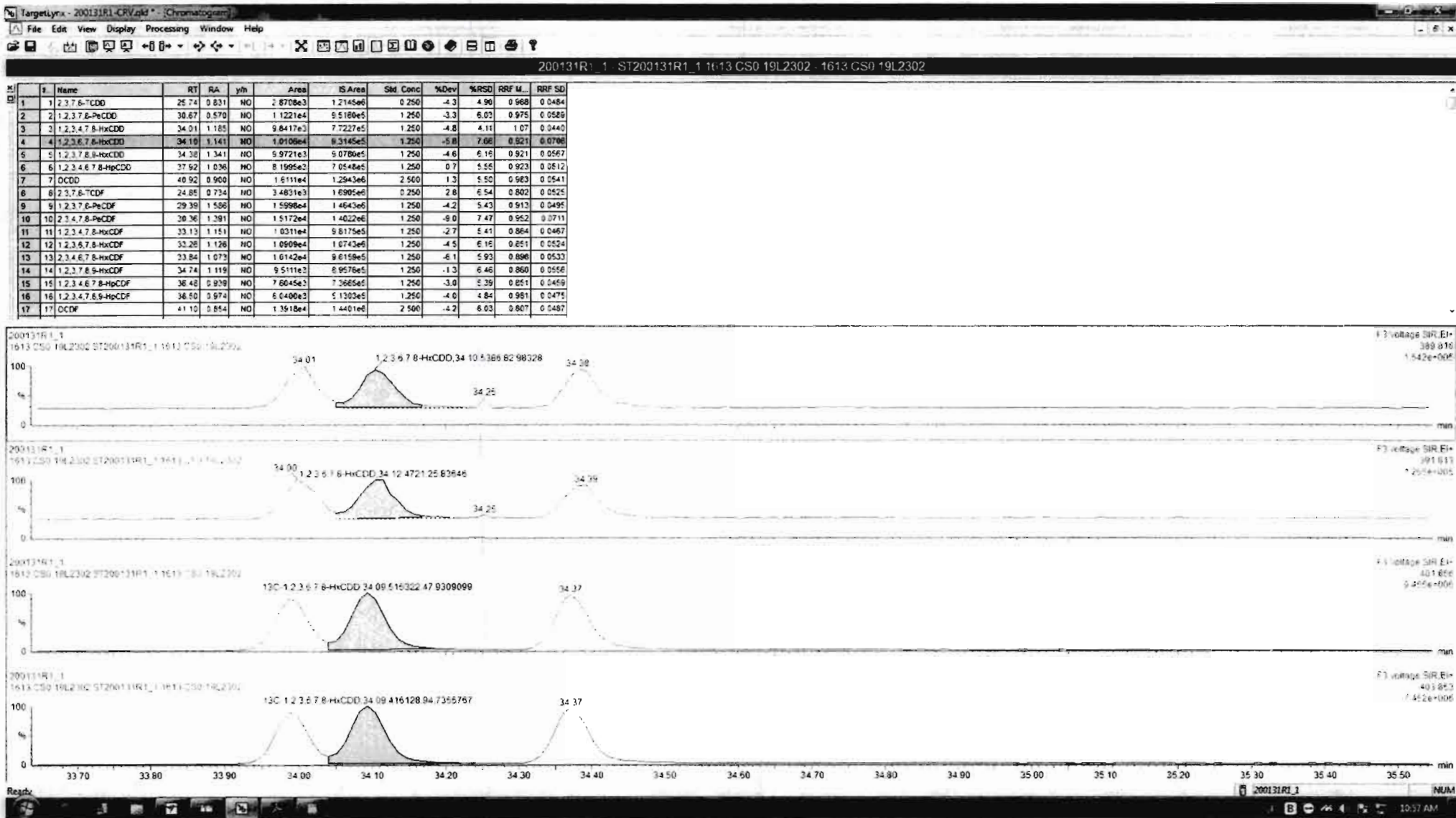
200131R1_1

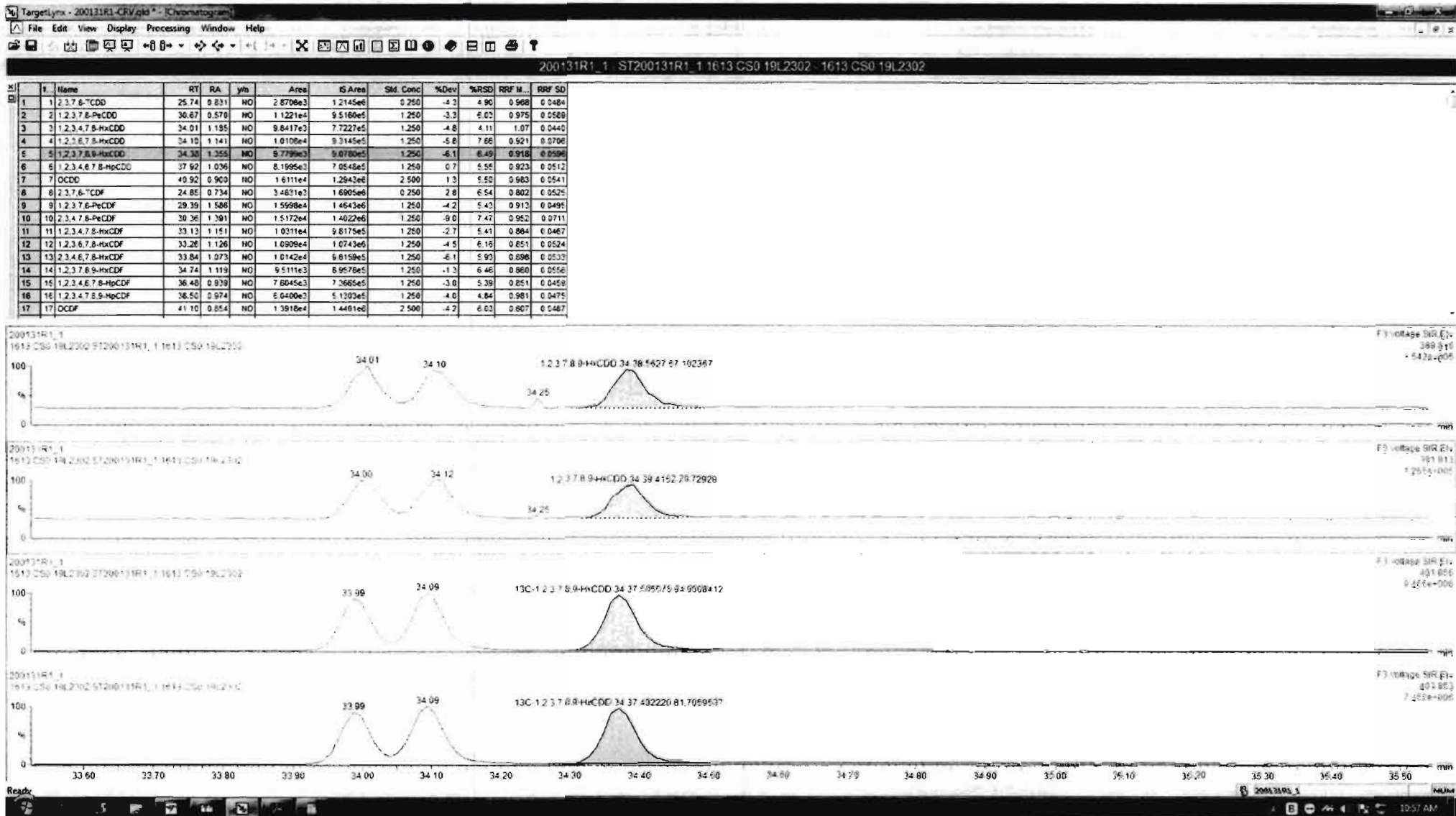


200131R1_1









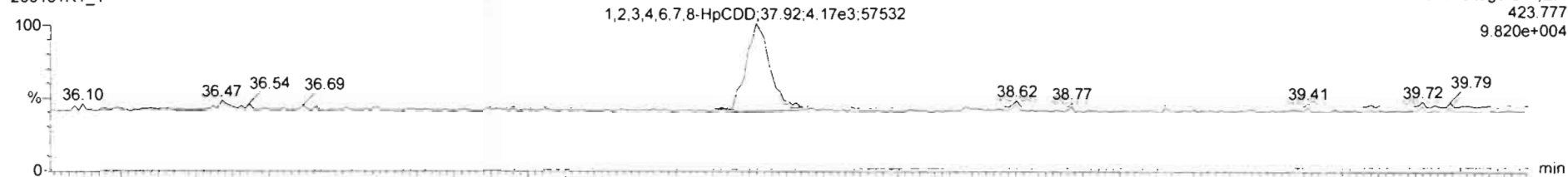
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

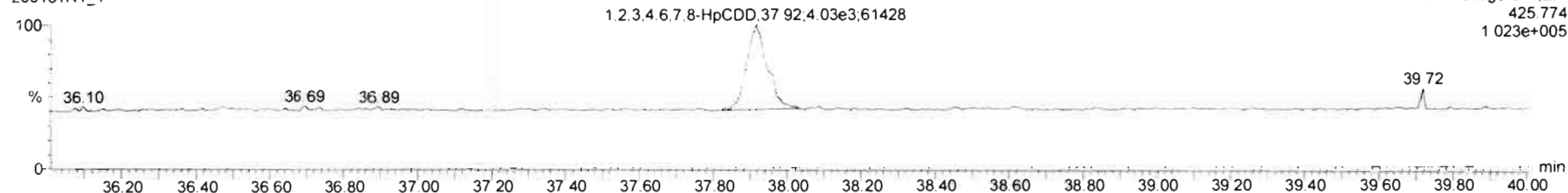
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1,2,3,4,6,7,8-HpCDD

200131R1_1

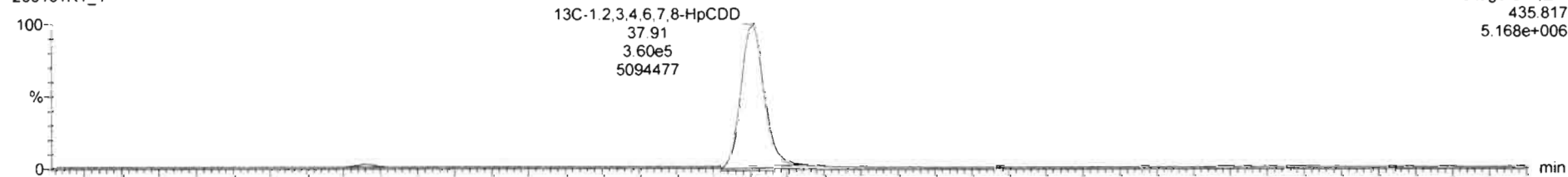


200131R1_1

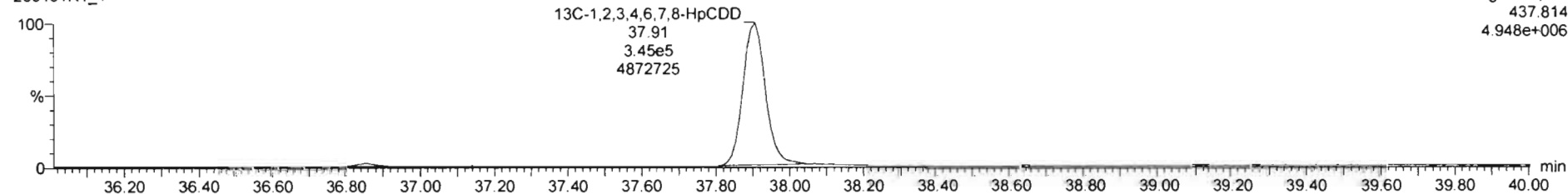


13C-1,2,3,4,6,7,8-HpCDD

200131R1_1



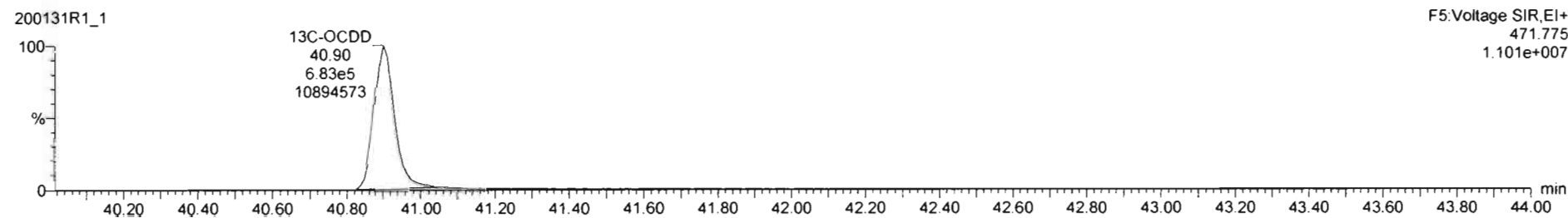
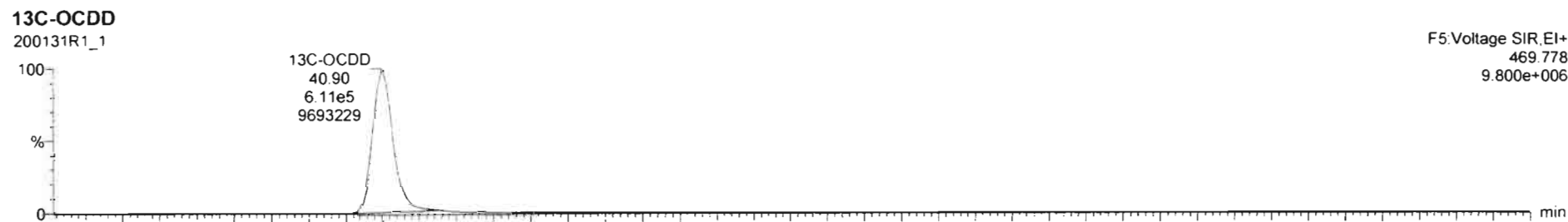
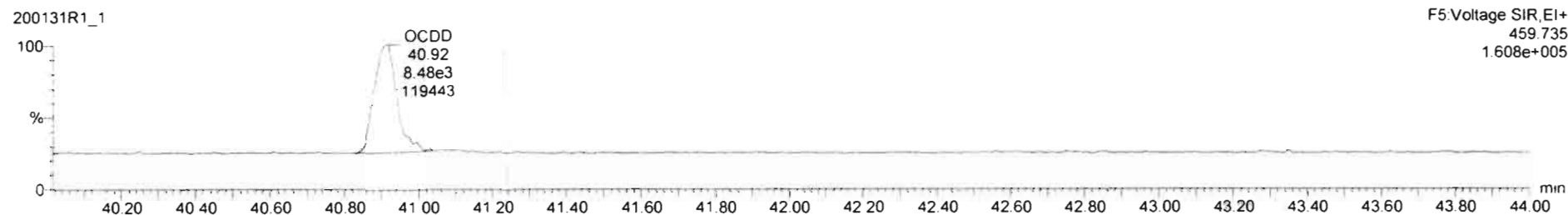
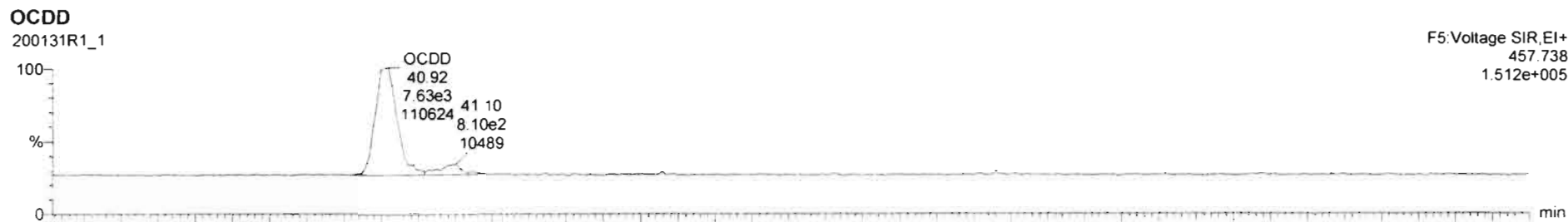
200131R1_1



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Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

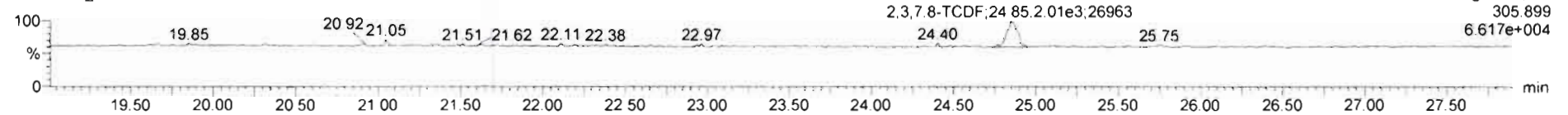
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2,3,7,8-TCDF

200131R1_1

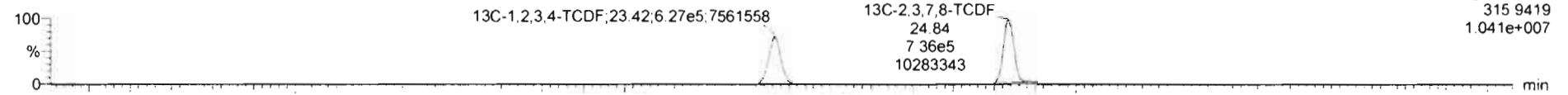


200131R1_1

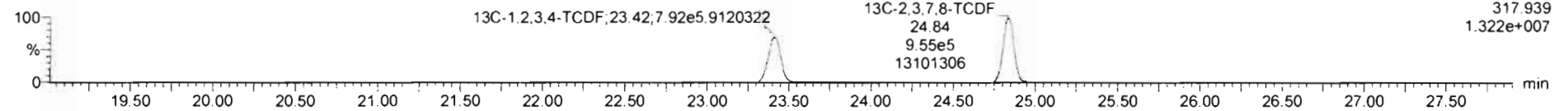


13C-2,3,7,8-TCDF

200131R1_1

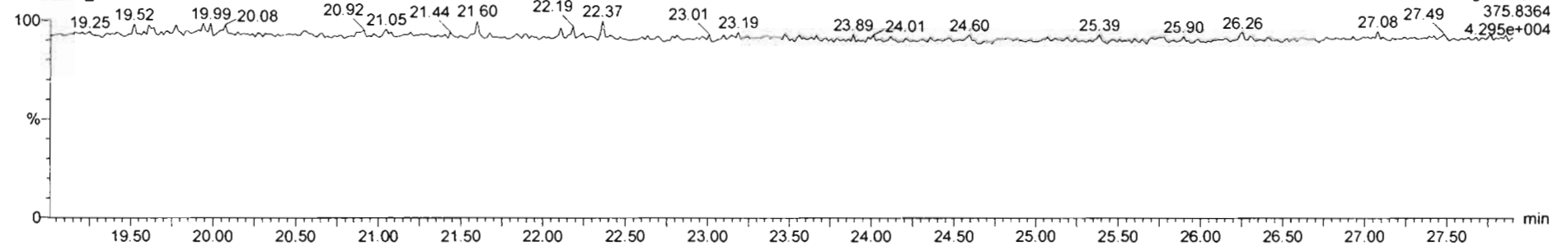


200131R1_1



DPE1

200131R1_1

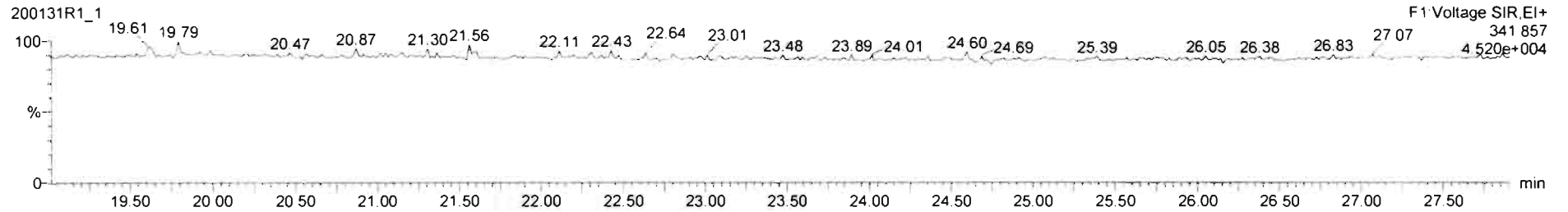
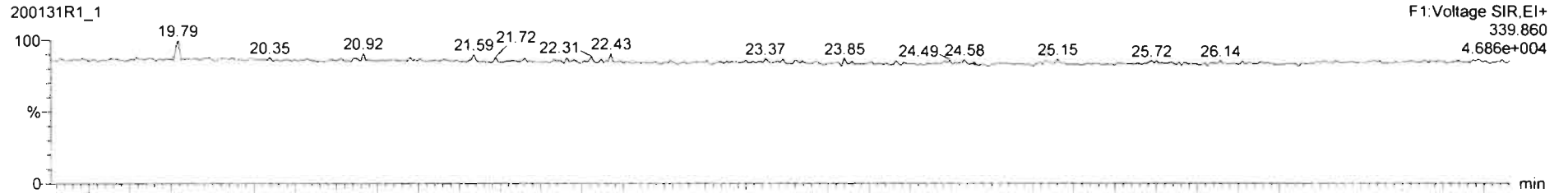


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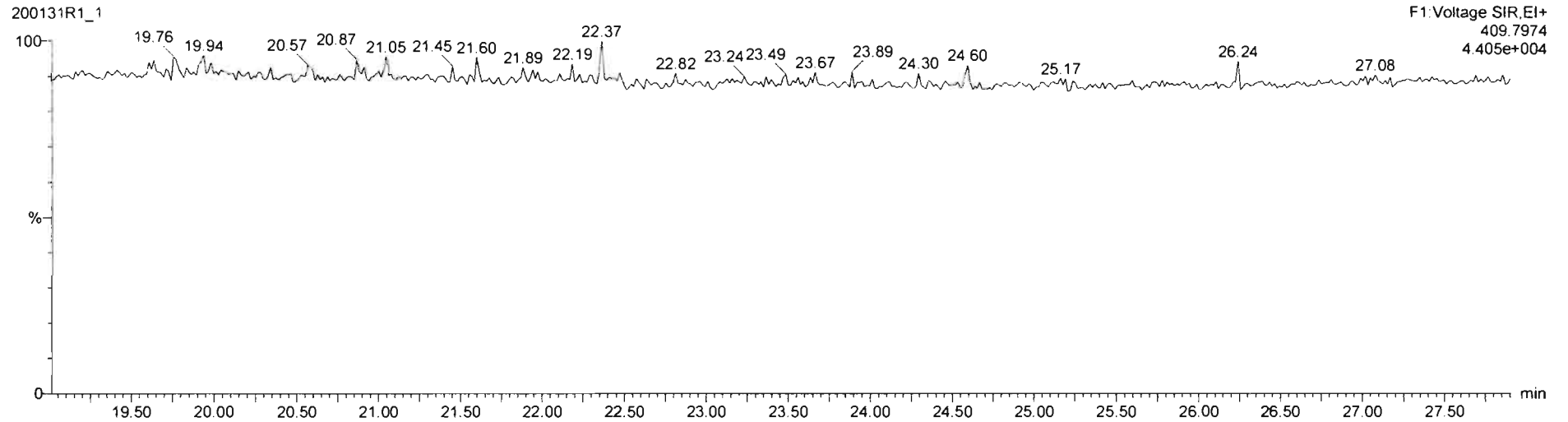
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1st Func. Penta-Furans



DPE6



Dataset: Untitled

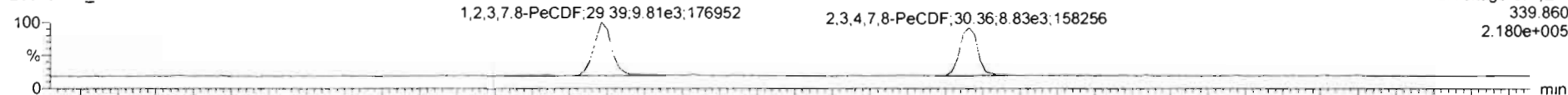
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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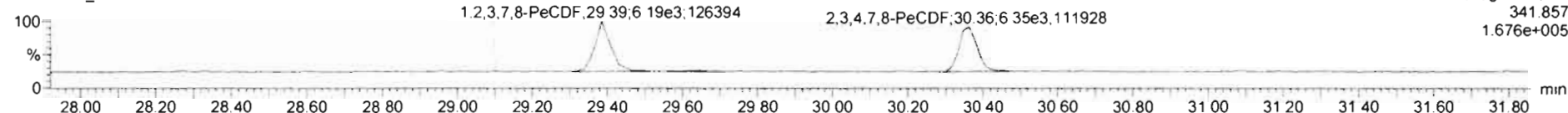
1,2,3,7,8-PeCDF

200131R1_1



F2:Voltage SIR,EI+
339.860
2.180e+005

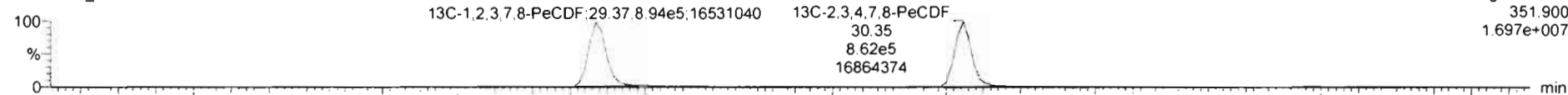
200131R1_1



F2:Voltage SIR,EI+
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1.676e+005

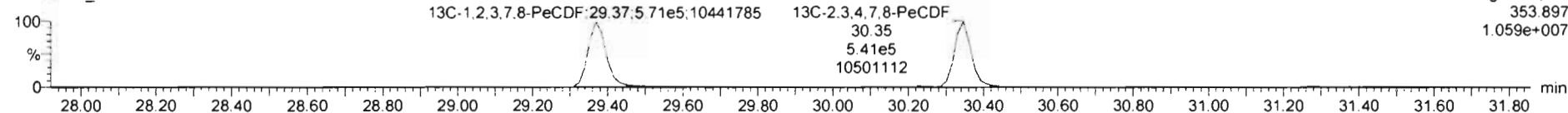
13C-1,2,3,7,8-PeCDF

200131R1_1



F2:Voltage SIR,EI+
351.900
1.697e+007

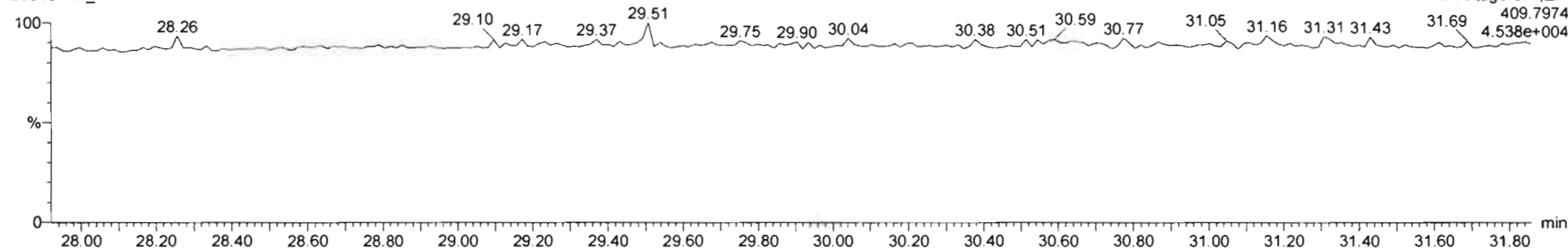
200131R1_1



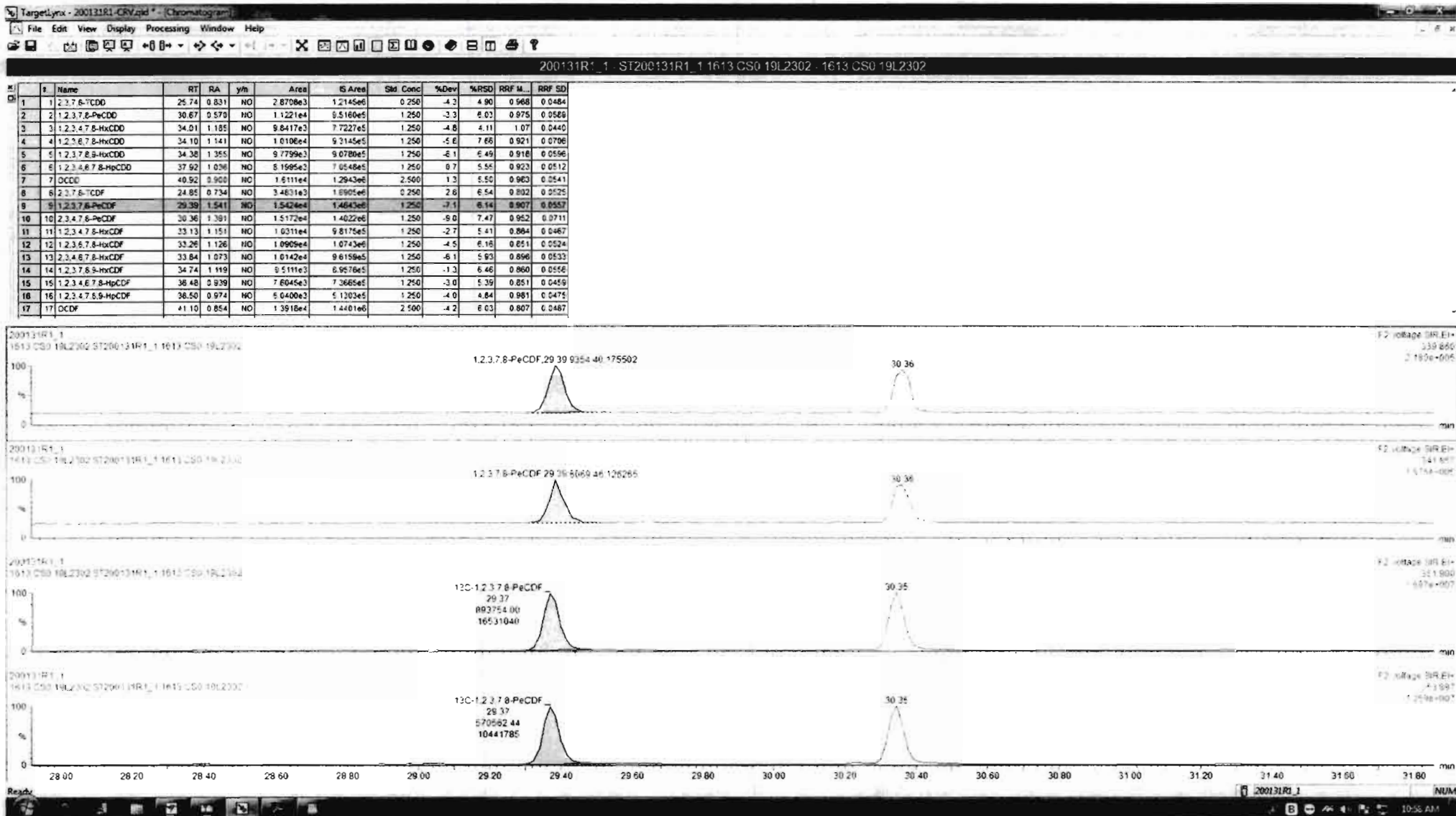
F2:Voltage SIR,EI+
353.897
1.059e+007

DPE2

200131R1_1



F2:Voltage SIR,EI+
409.7974
4.538e+004



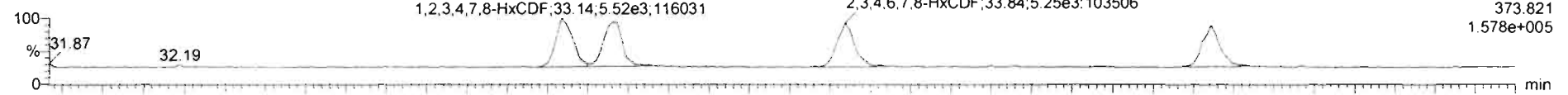
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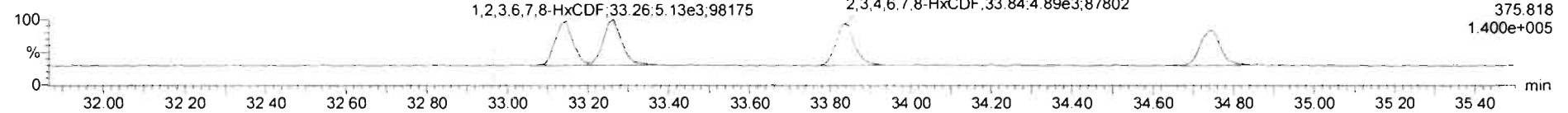
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1,2,3,4,7,8-HxCDF

200131R1_1

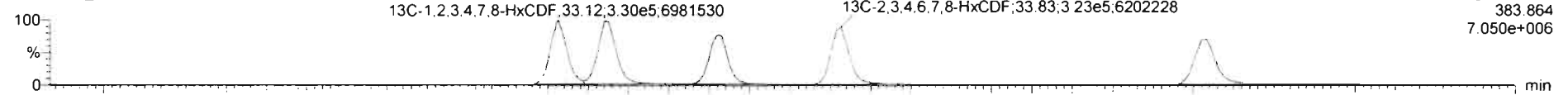


200131R1_1

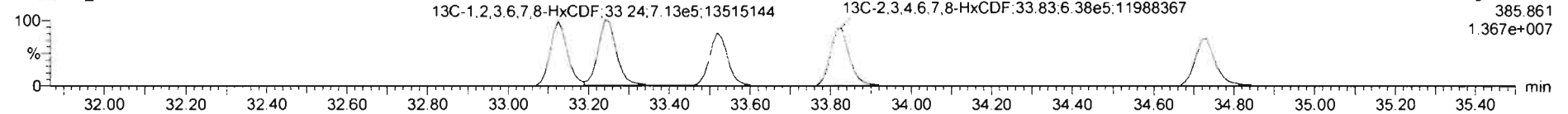


13C-1,2,3,4,7,8-HxCDF

200131R1_1

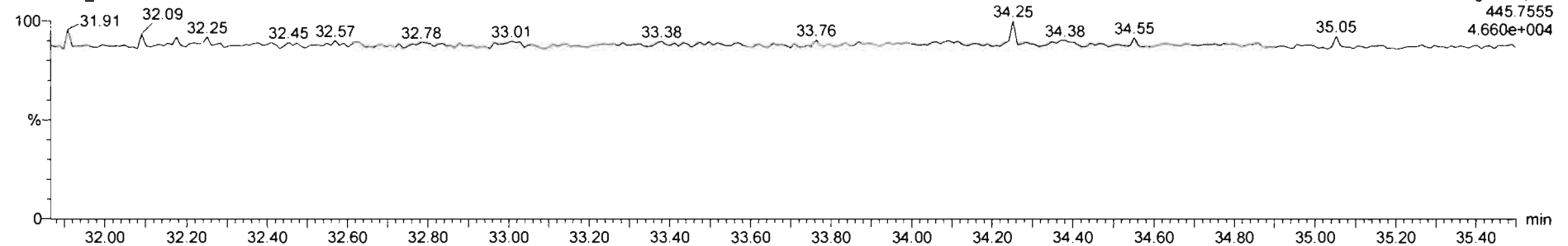


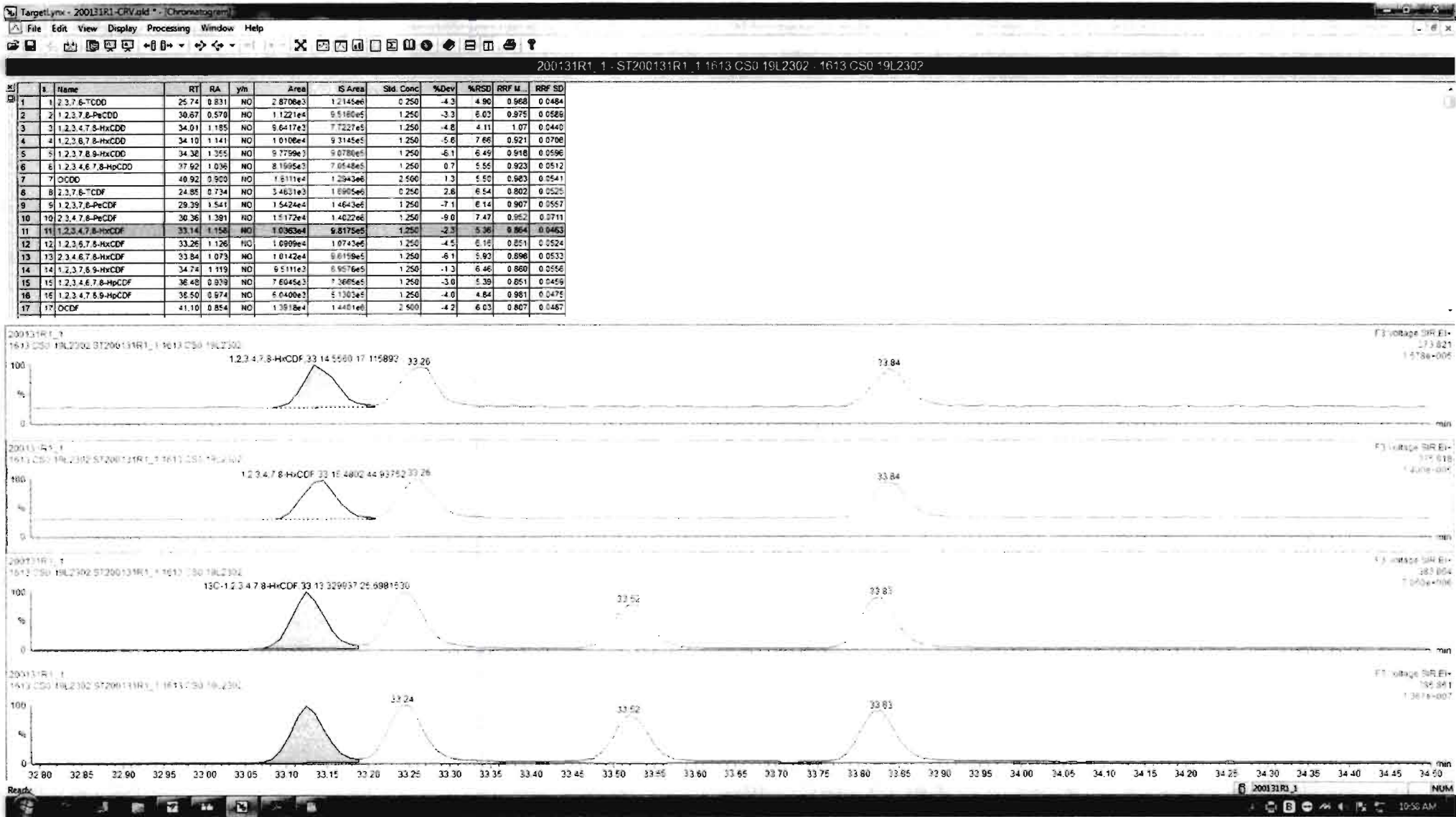
200131R1_1

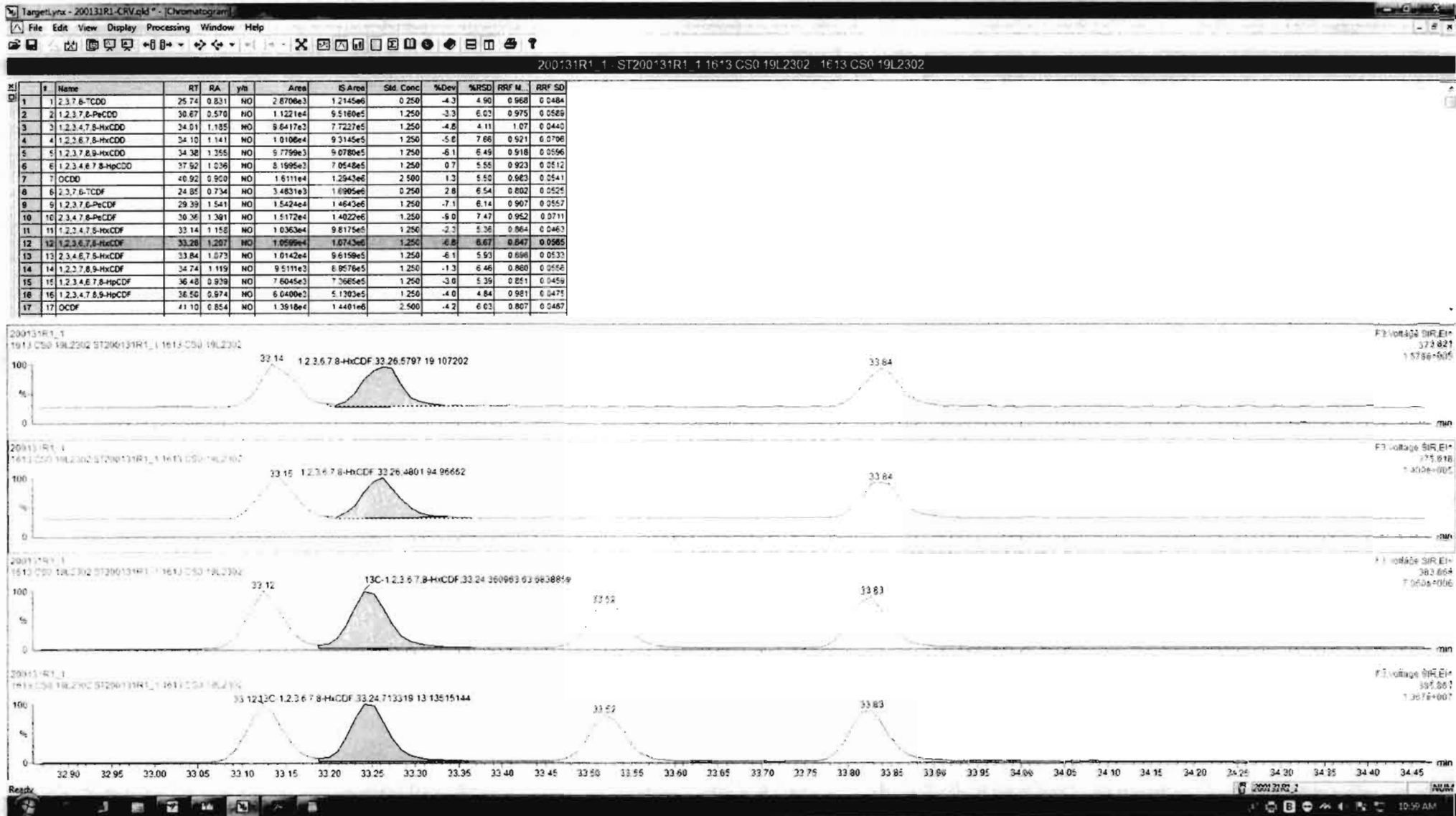


DPE3

200131R1_1





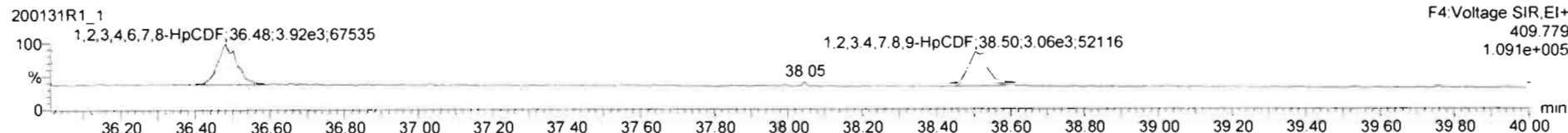
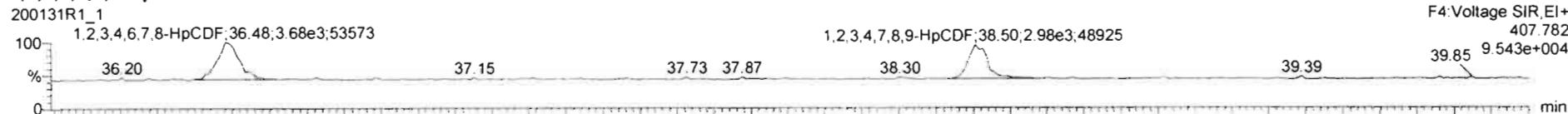


Dataset: Untitled

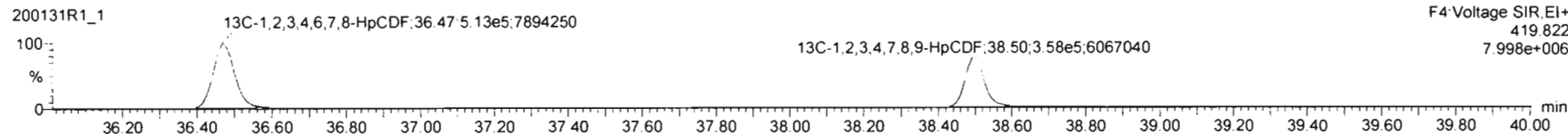
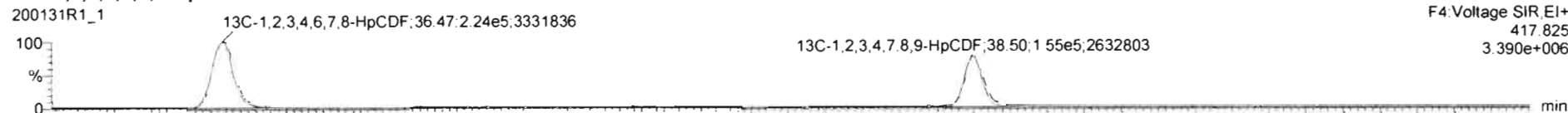
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

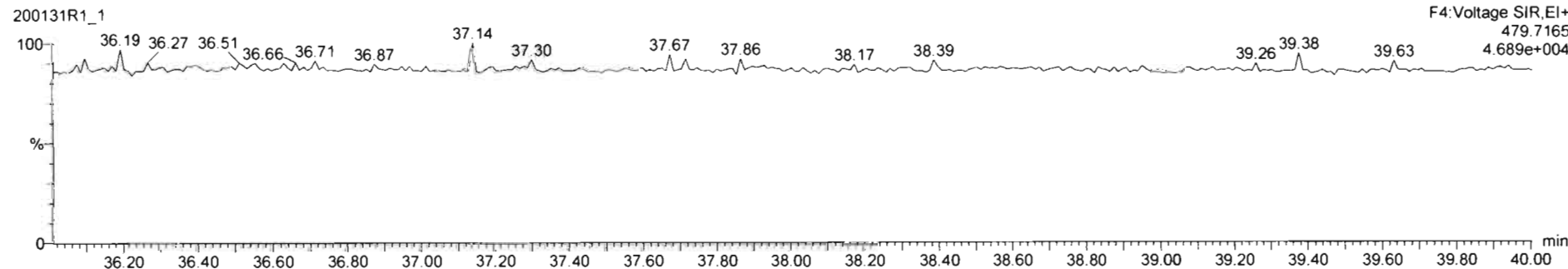
1,2,3,4,6,7,8-HpCDF

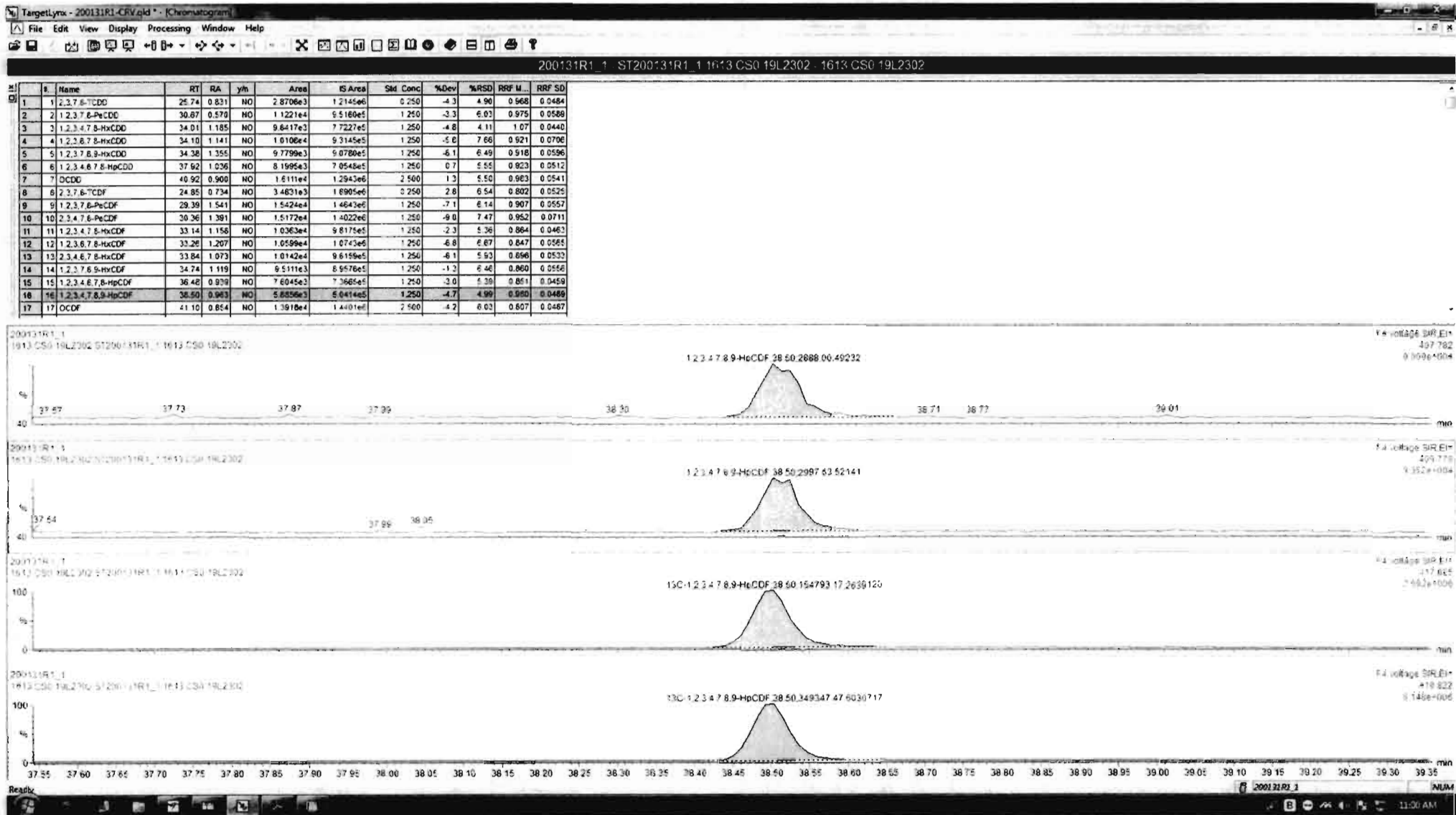


13C-1,2,3,4,6,7,8-HpCDF



DPE4

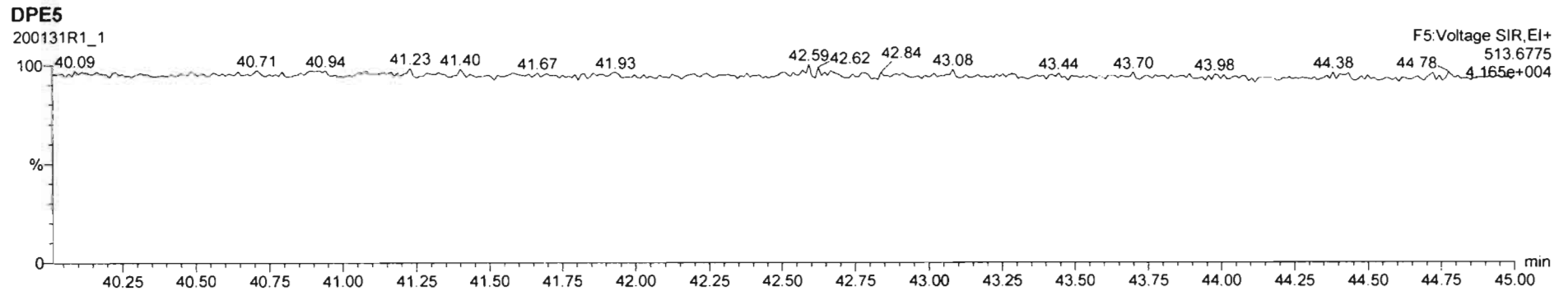
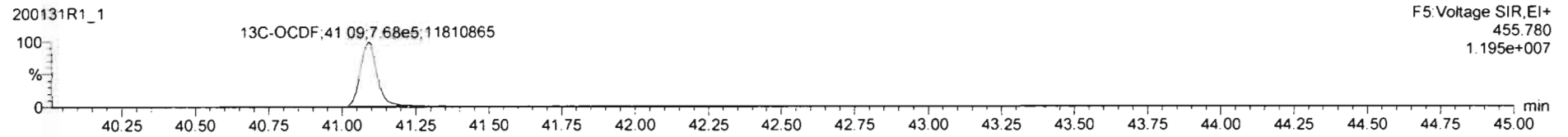
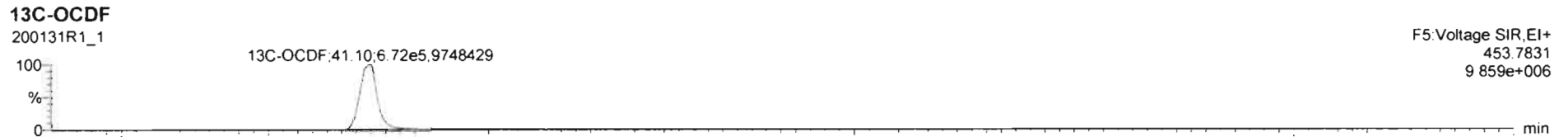
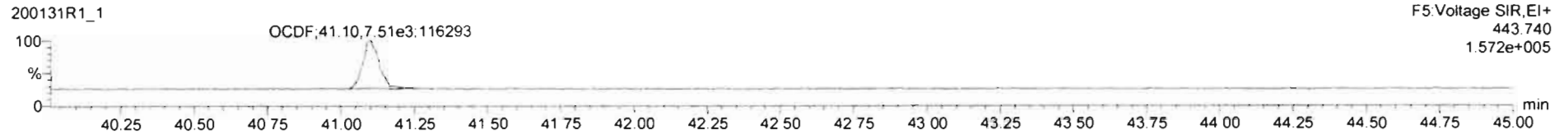
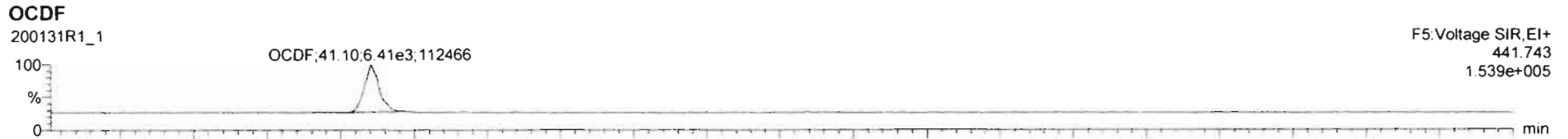




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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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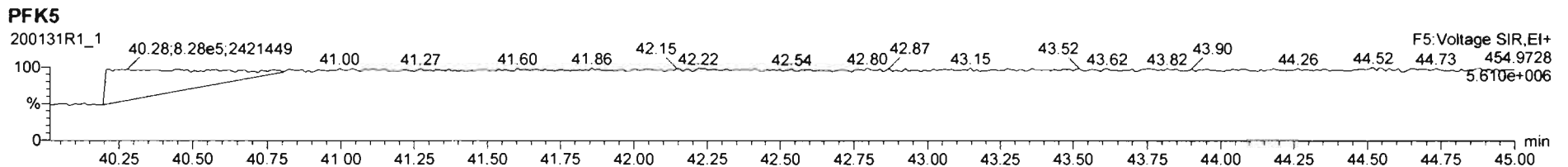
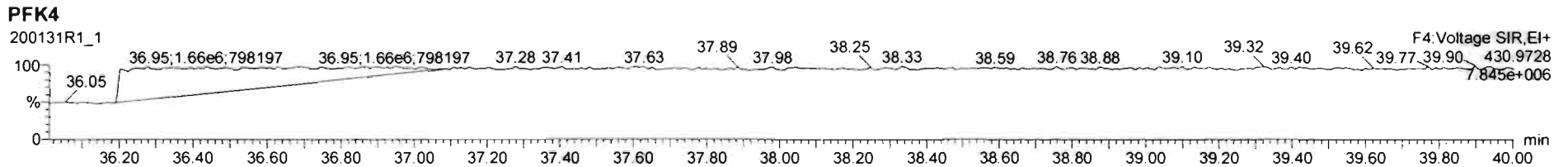
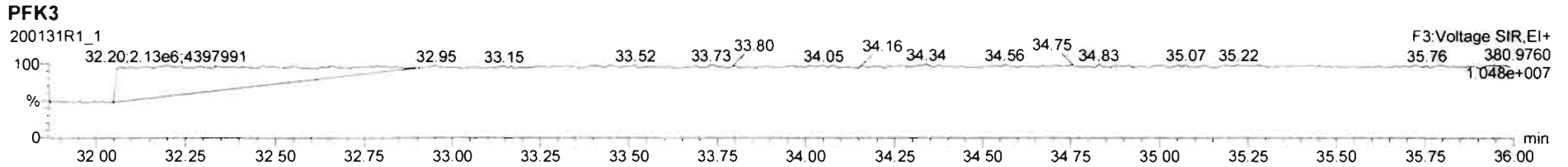
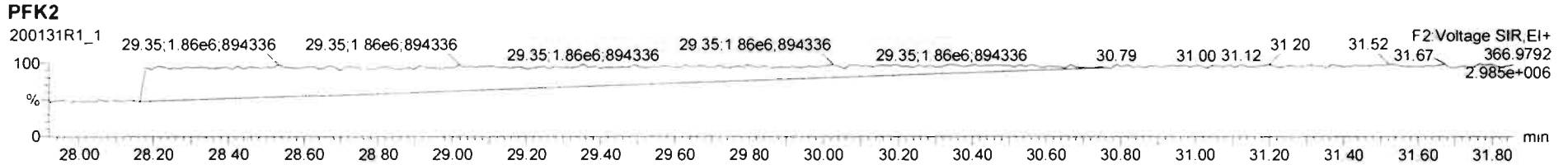
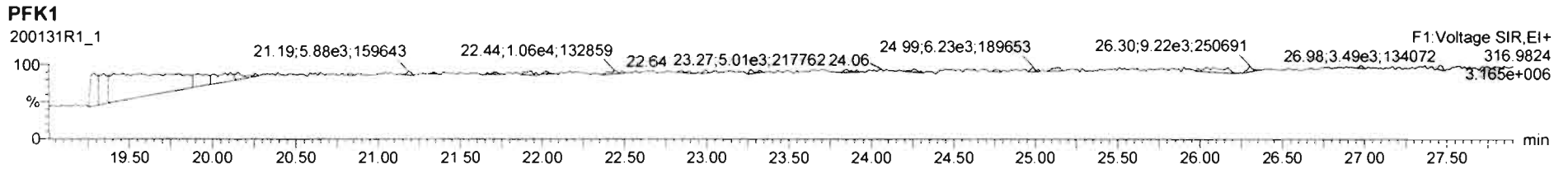


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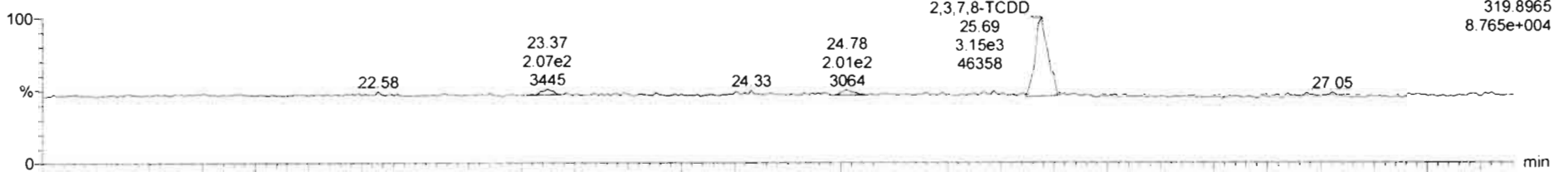
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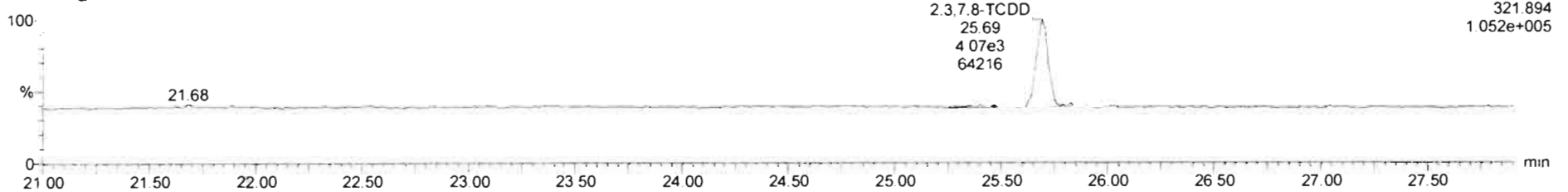
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2,3,7,8-TCDD

200131R1_2

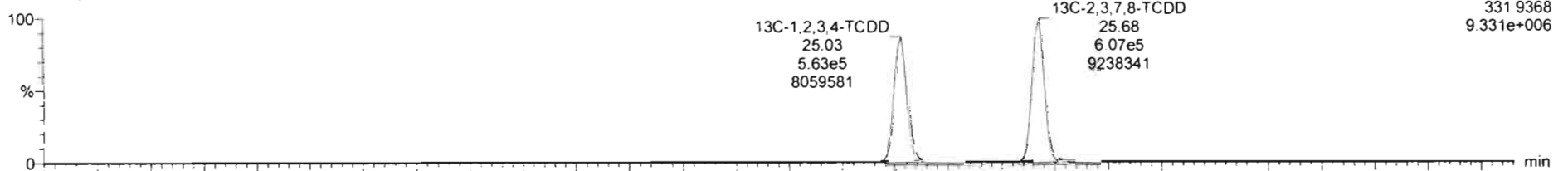


200131R1_2

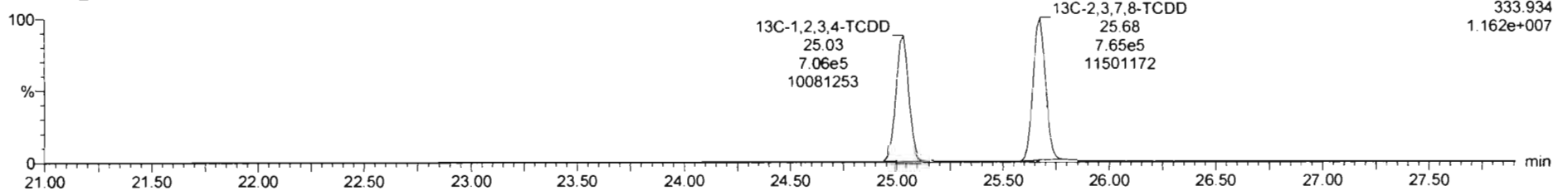


13C-2,3,7,8-TCDD

200131R1_2



200131R1_2



Dataset: Untitled

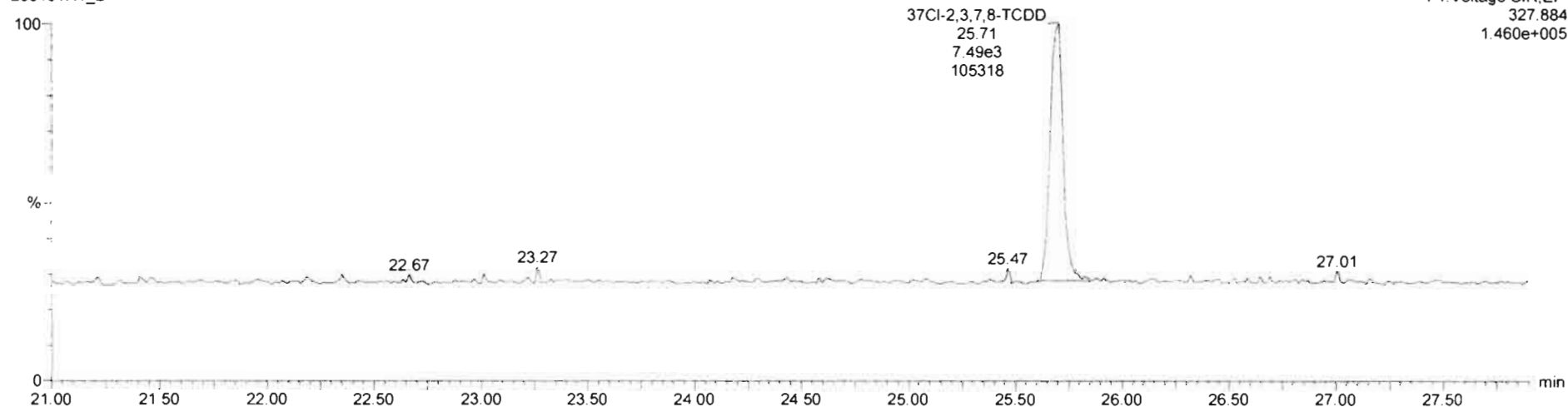
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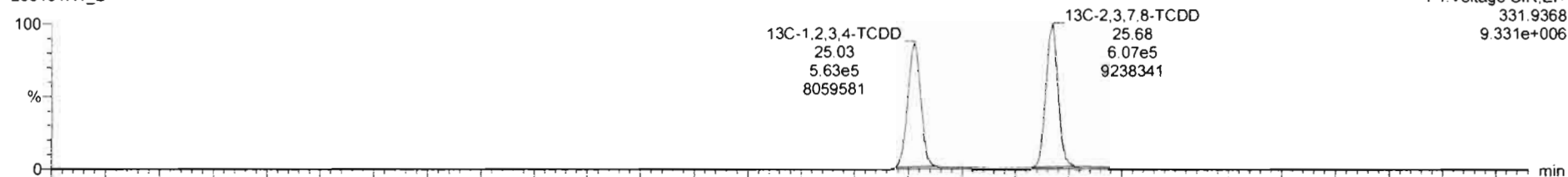
37Cl-2,3,7,8-TCDD

200131R1_2

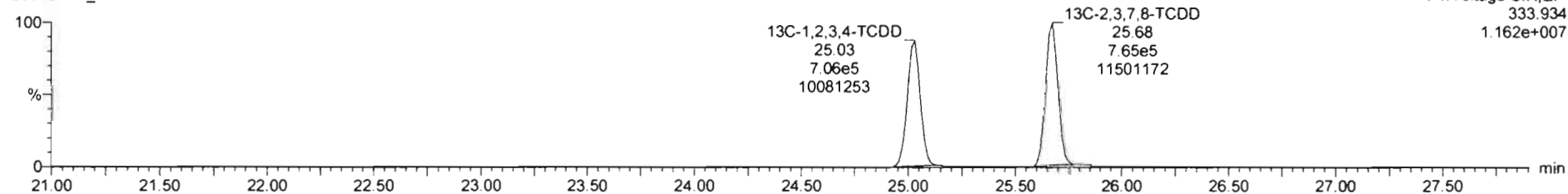


13C-1,2,3,4-TCDD

200131R1_2



200131R1_2



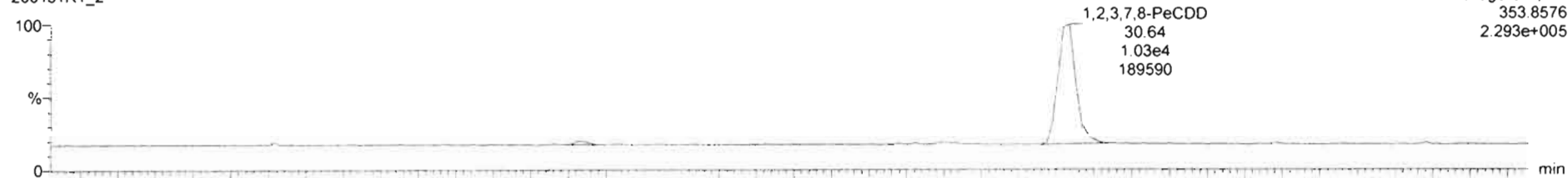
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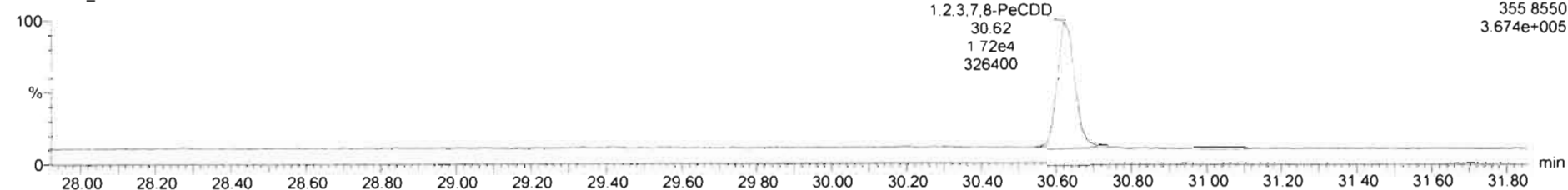
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1,2,3,7,8-PeCDD

200131R1_2

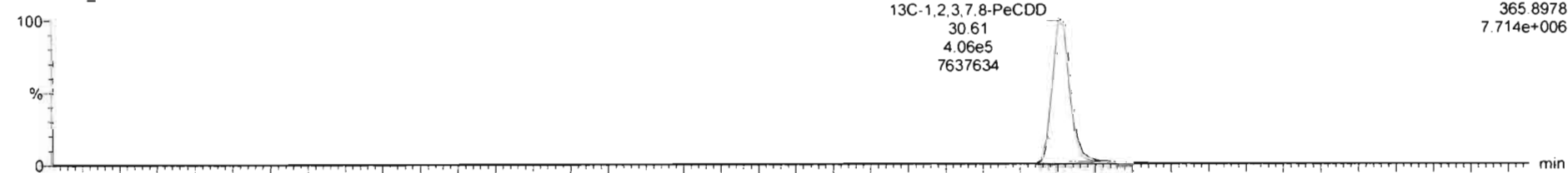


200131R1_2

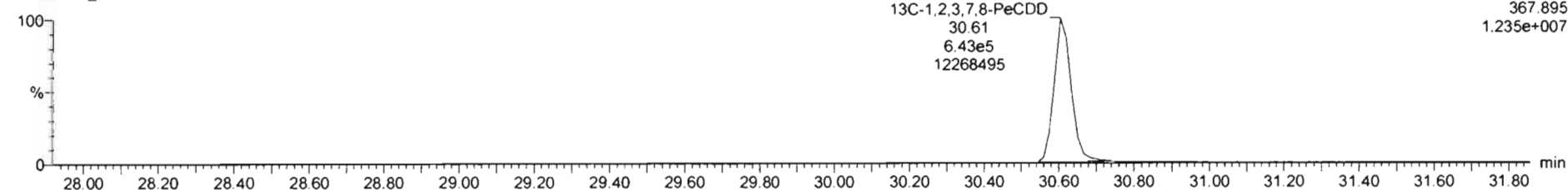


13C-1,2,3,7,8-PeCDD

200131R1_2



200131R1_2



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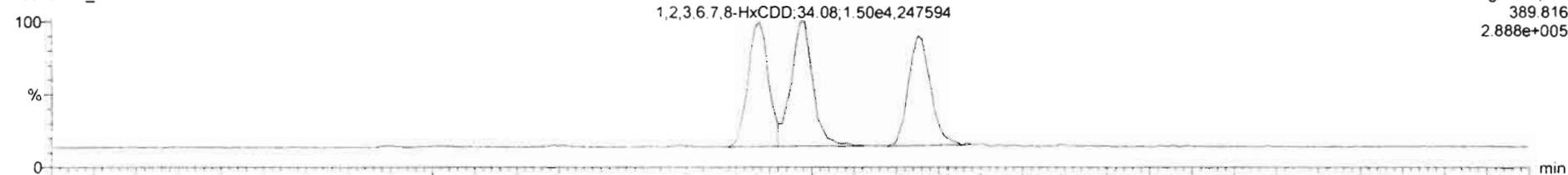
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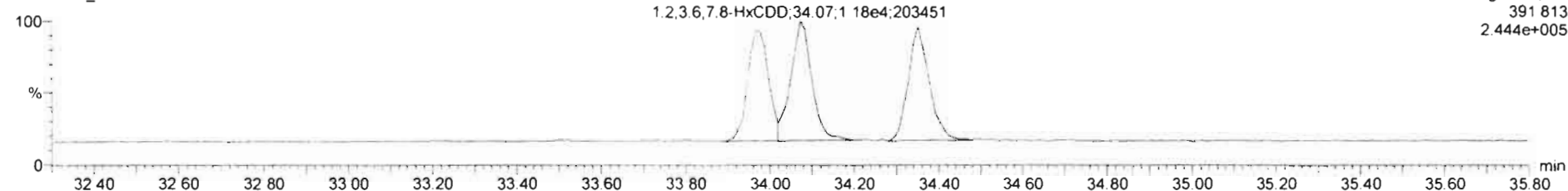
1,2,3,4,7,8-HxCDD

200131R1_2



F3:Voltage SIR,EI+
389.816
2.888e+005

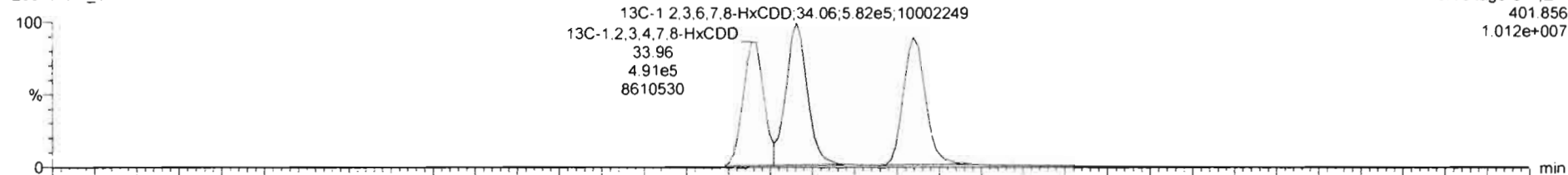
200131R1_2



F3:Voltage SIR,EI+
391.813
2.444e+005

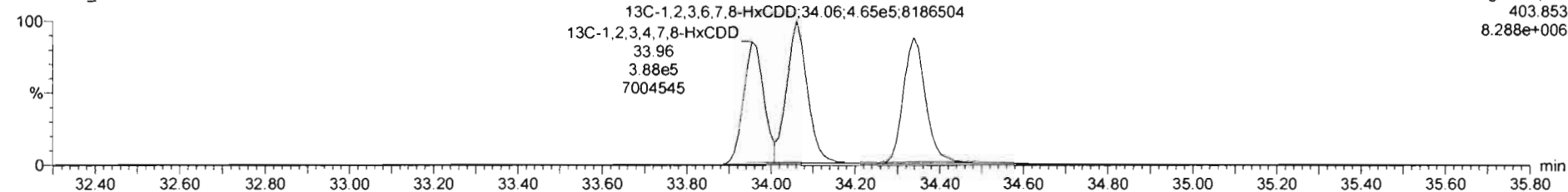
13C-1,2,3,4,7,8-HxCDD

200131R1_2



F3:Voltage SIR,EI+
401.856
1.012e+007

200131R1_2



F3:Voltage SIR,EI+
403.853
8.288e+006

Dataset: Untitled

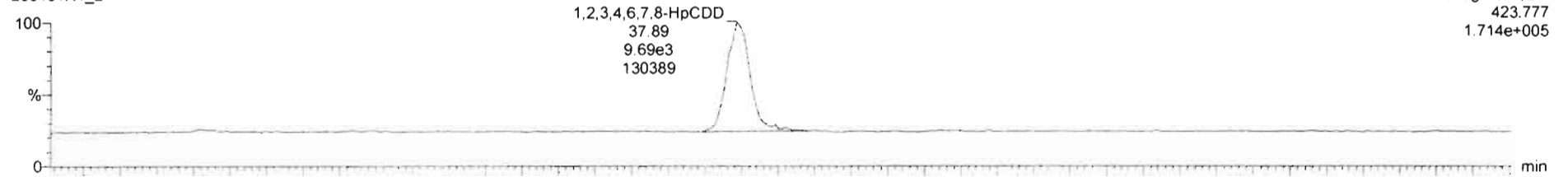
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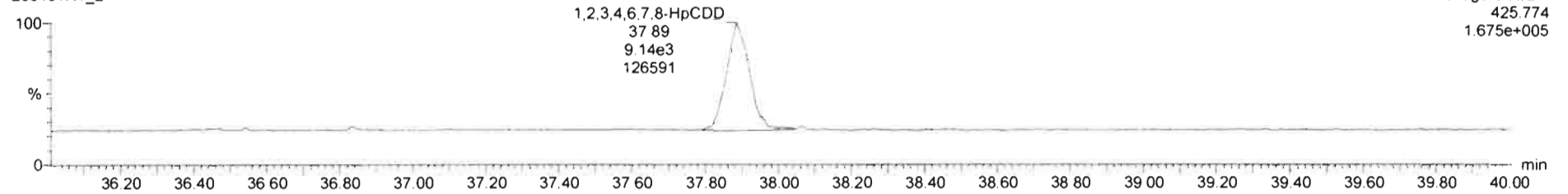
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1,2,3,4,6,7,8-HpCDD

200131R1_2

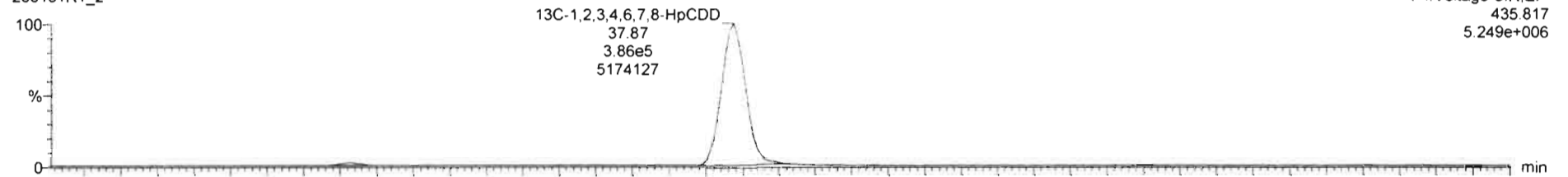


200131R1_2

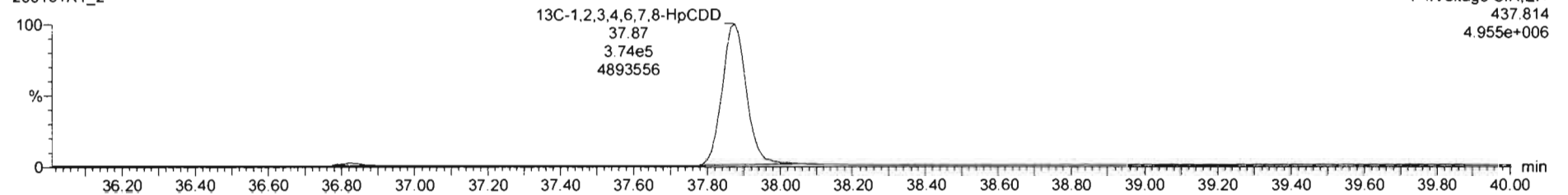


¹³C-1,2,3,4,6,7,8-HpCDD

200131R1_2



200131R1_2

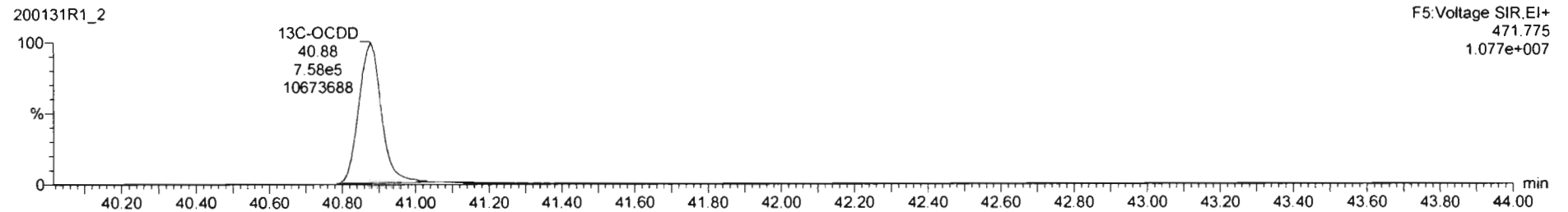
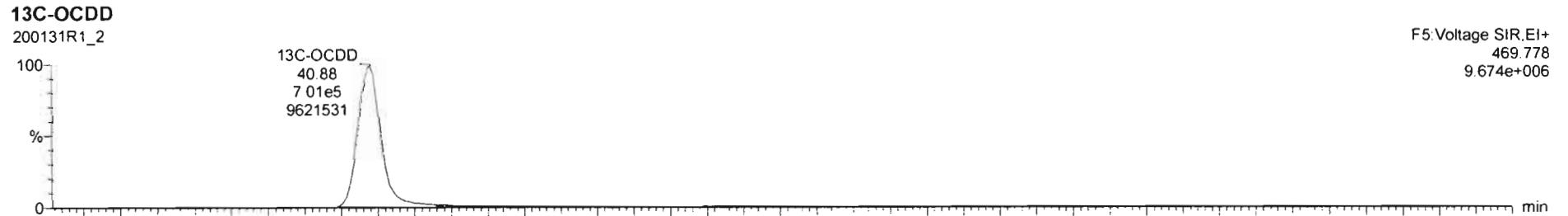
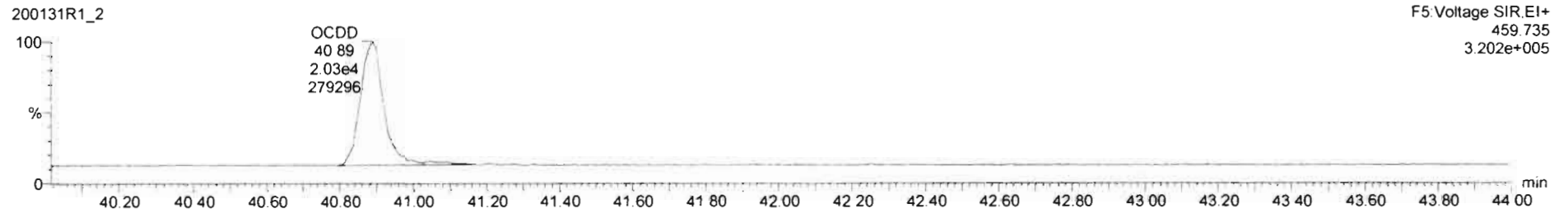
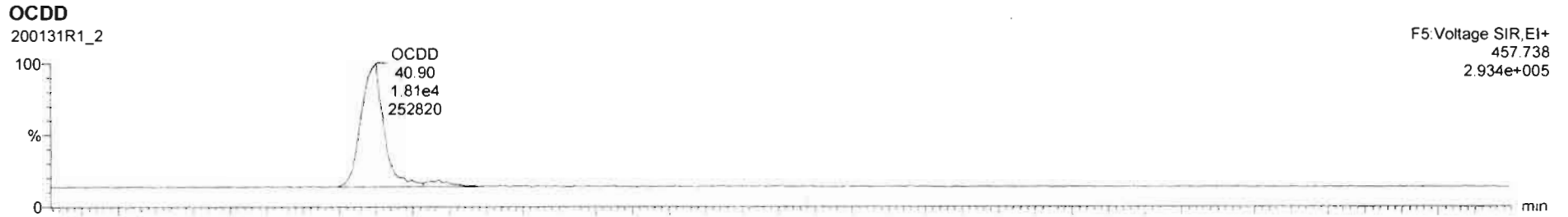


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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

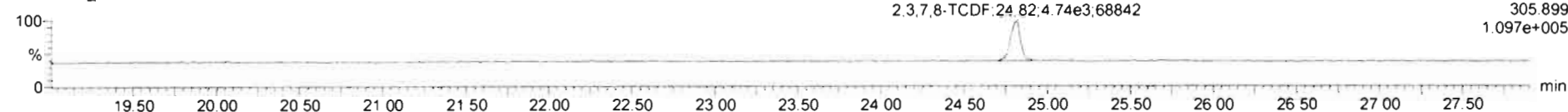
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2,3,7,8-TCDF

200131R1_2

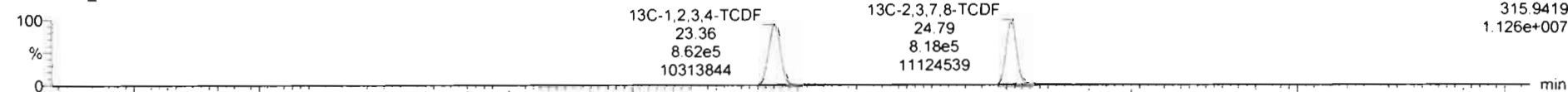


200131R1_2

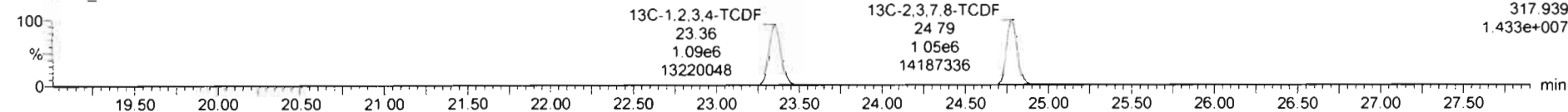


13C-2,3,7,8-TCDF

200131R1_2

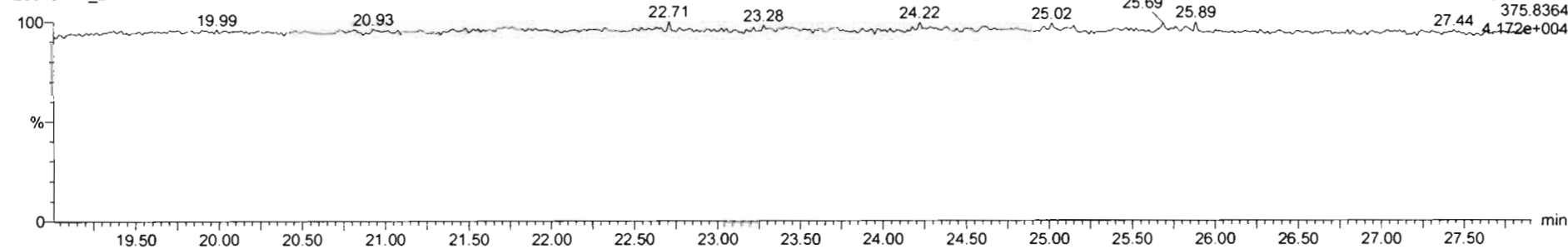


200131R1_2



DPE1

200131R1_2



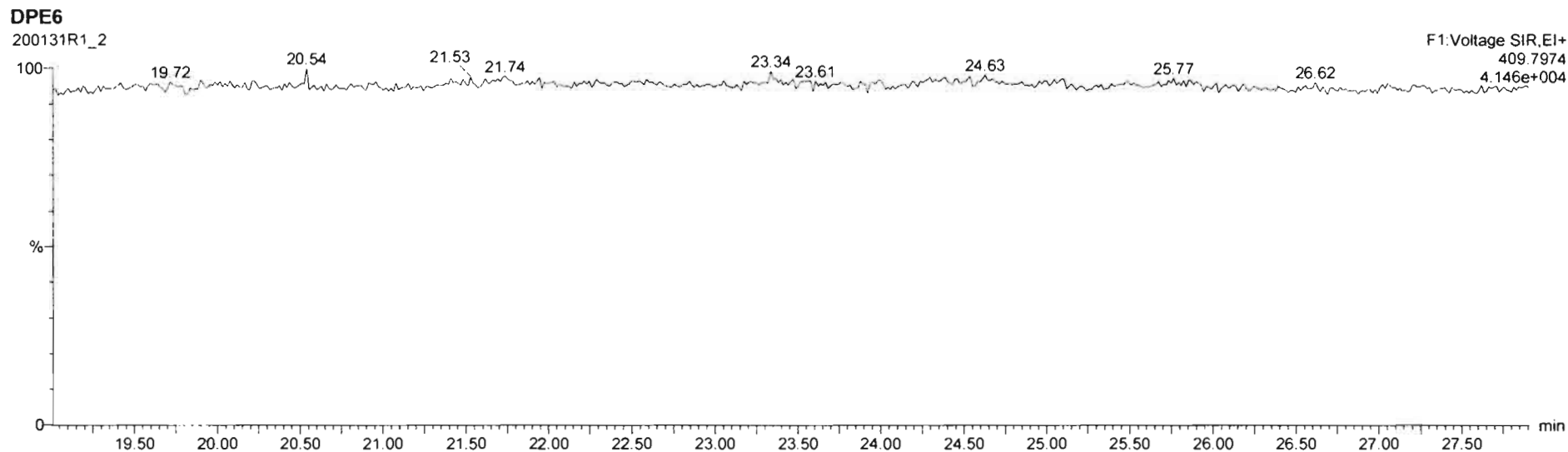
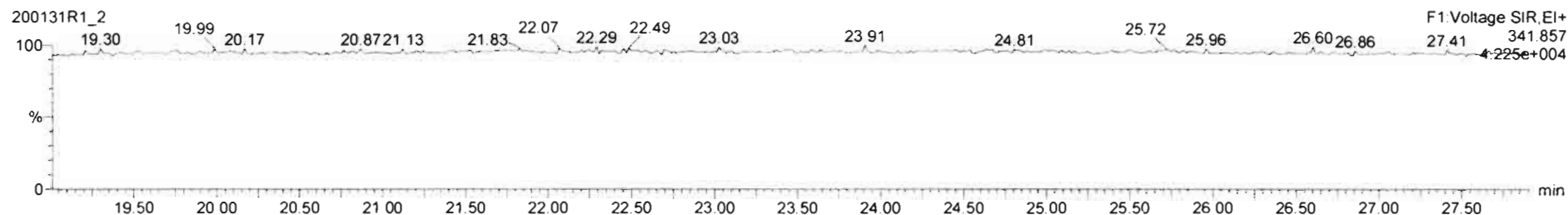
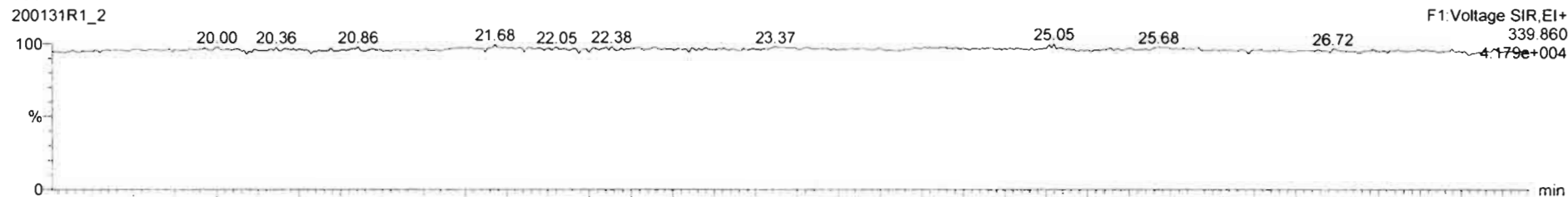
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Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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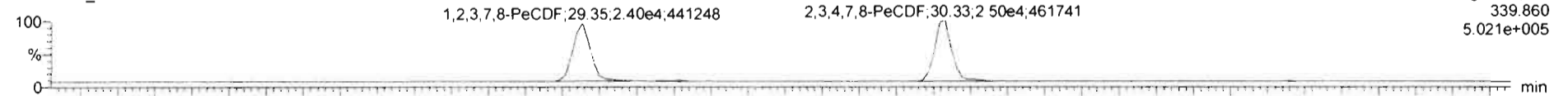
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

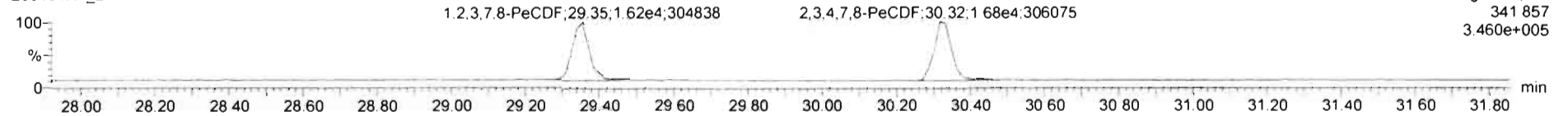
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1,2,3,7,8-PeCDF

200131R1_2

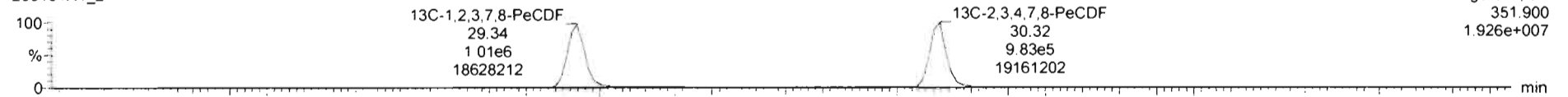


200131R1_2

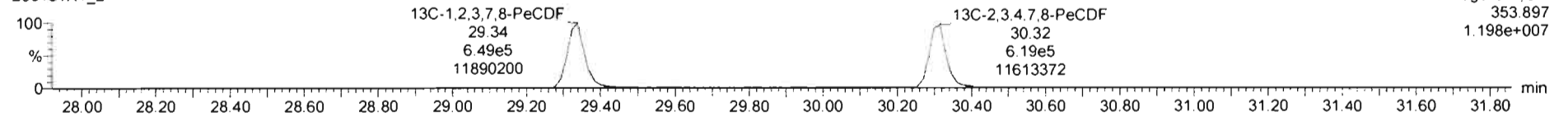


13C-1,2,3,7,8-PeCDF

200131R1_2

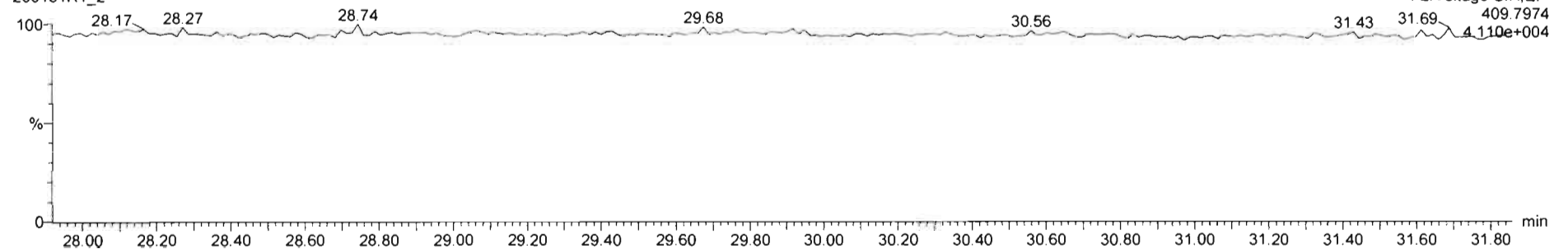


200131R1_2



DPE2

200131R1_2



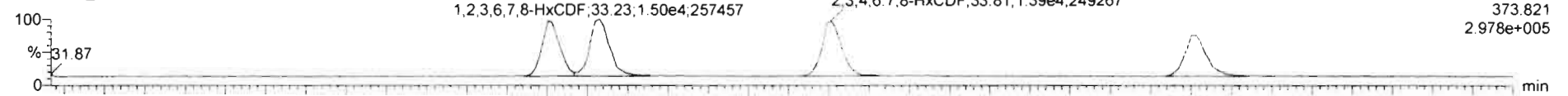
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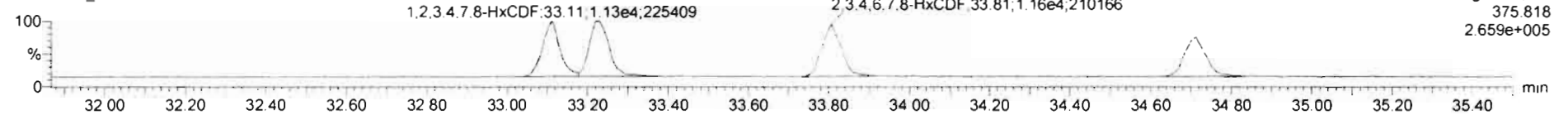
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1,2,3,4,7,8-HxCDF

200131R1_2

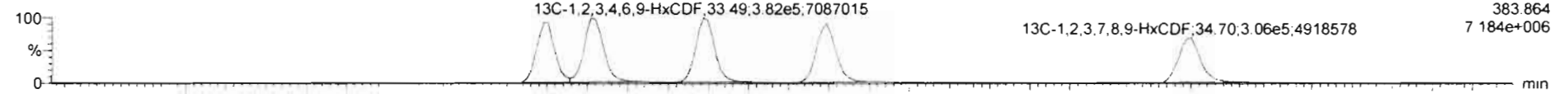


200131R1_2

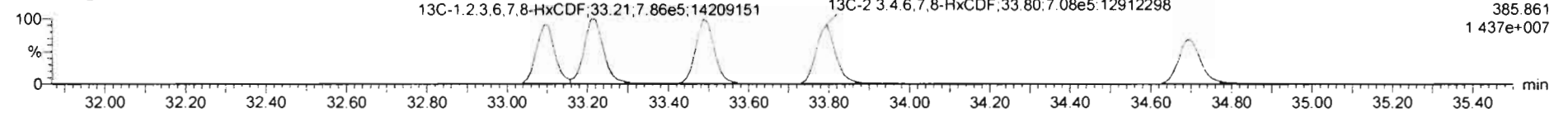


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200131R1_2

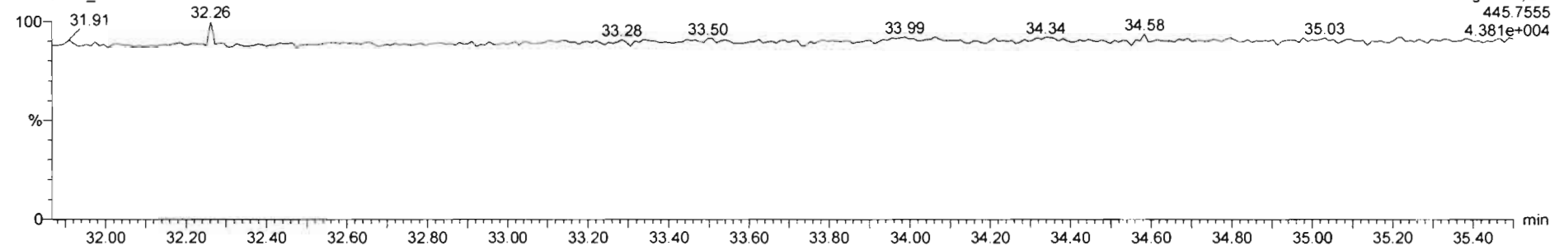


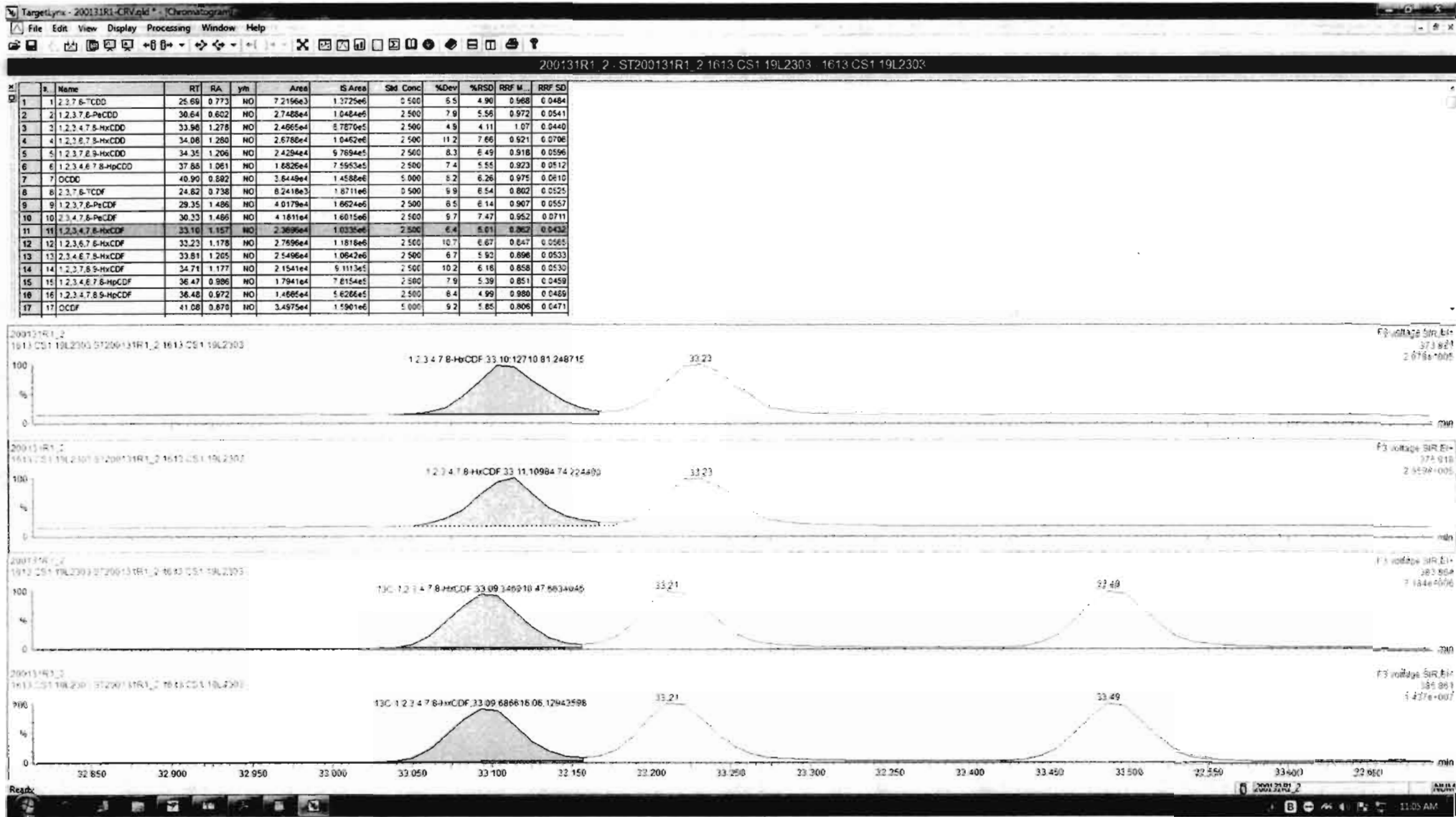
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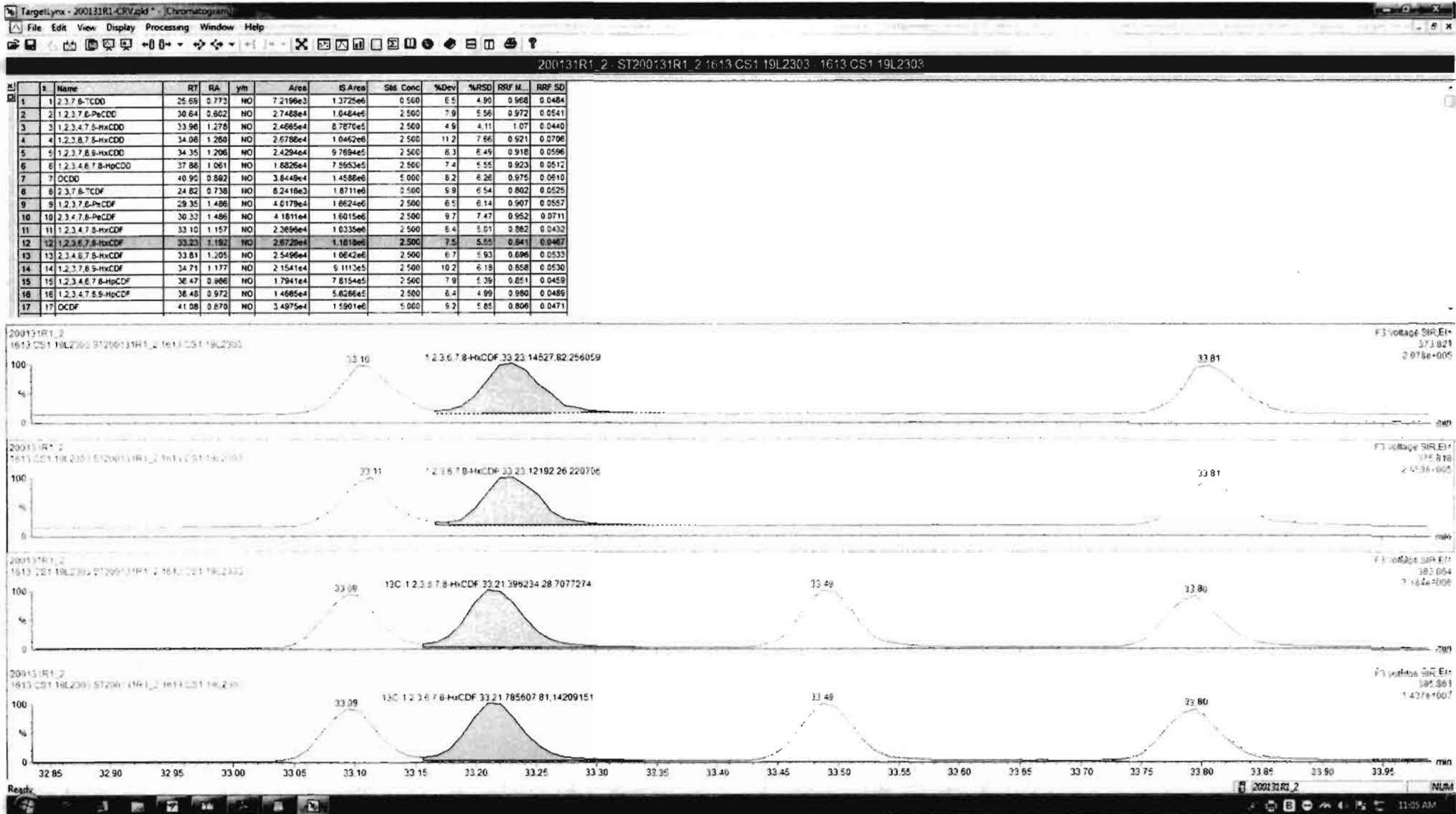


DPE3

200131R1_2







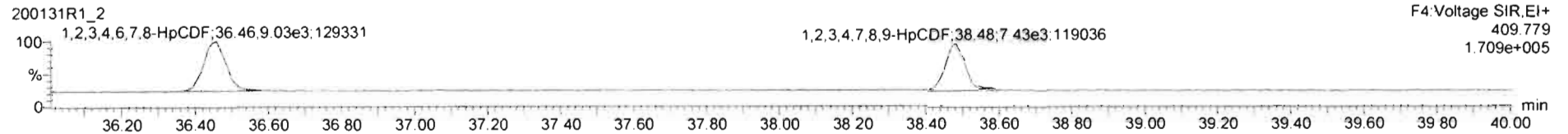
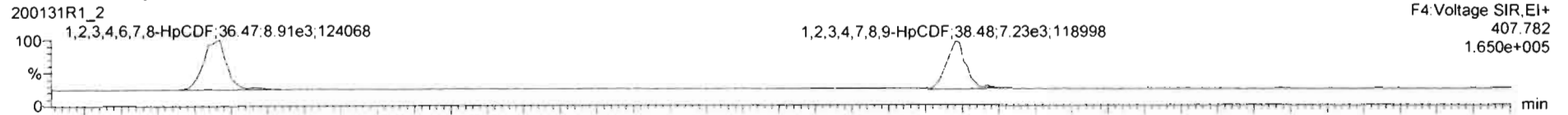
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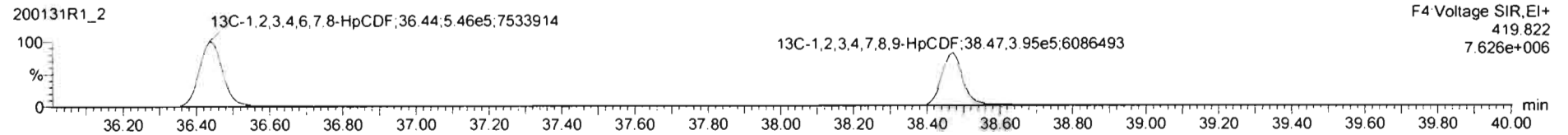
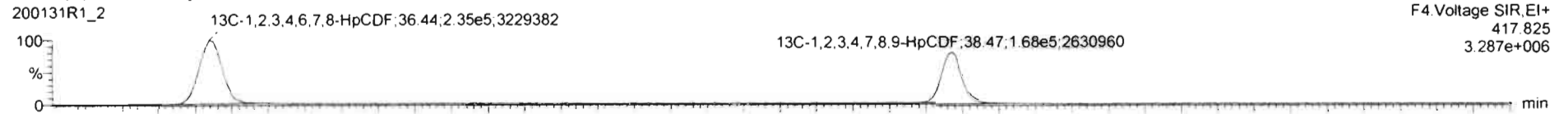
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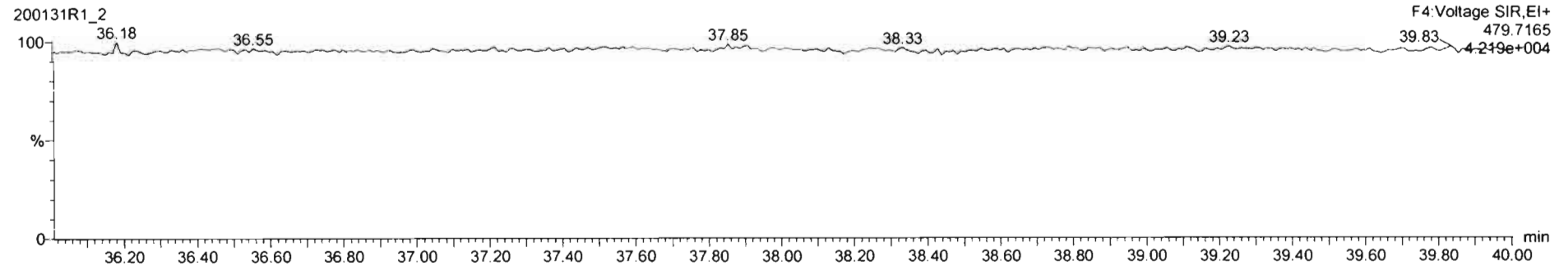
1,2,3,4,6,7,8-HpCDF



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



DPE4



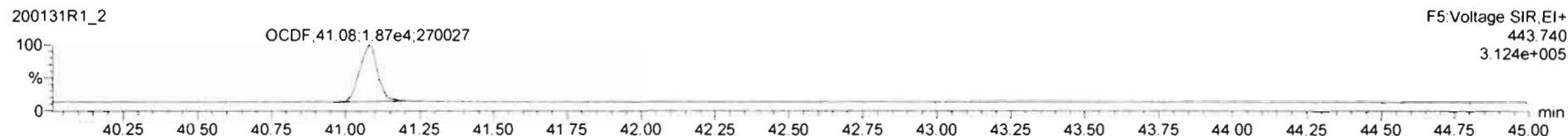
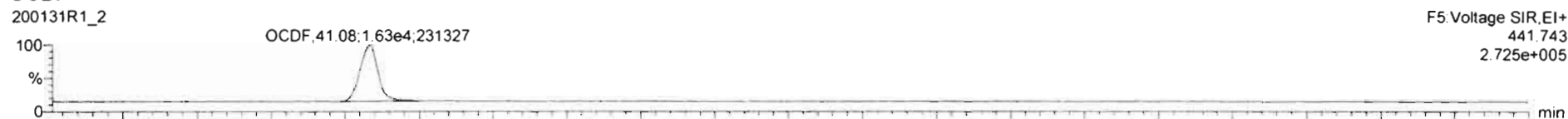
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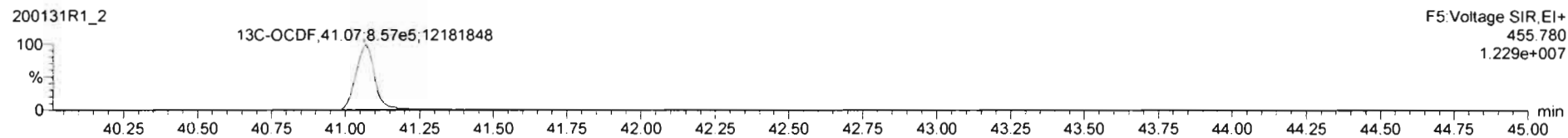
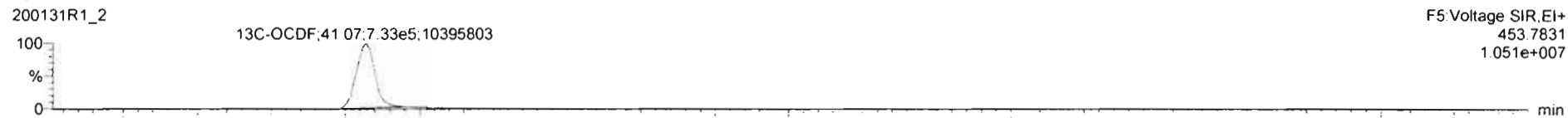
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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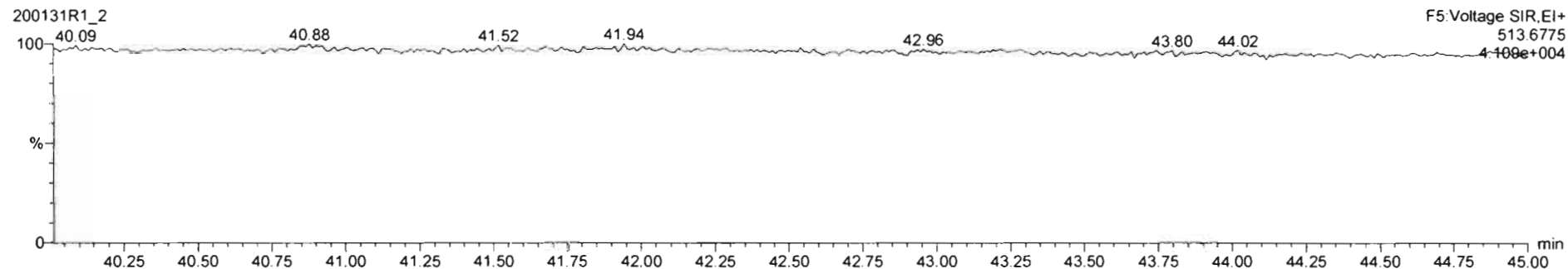
OCDF



13C-OCDF



DPE5

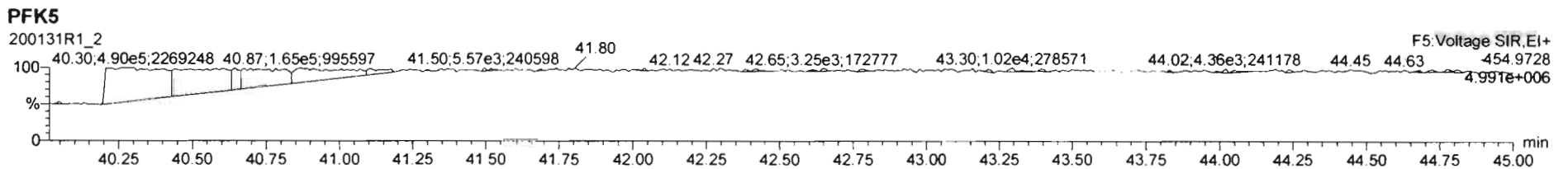
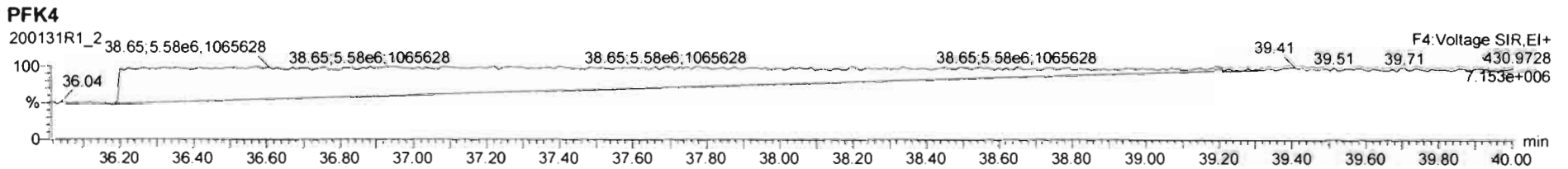
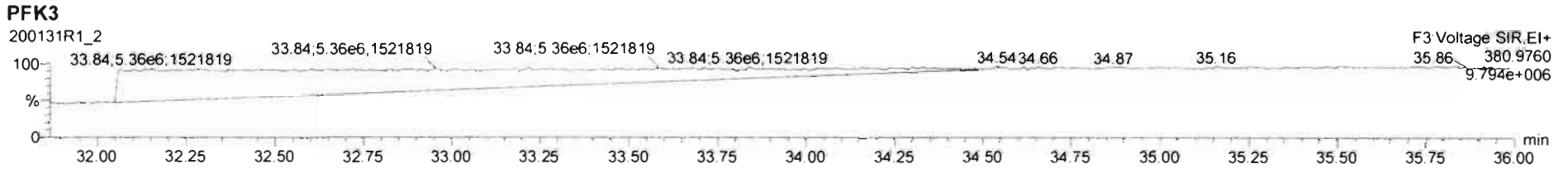
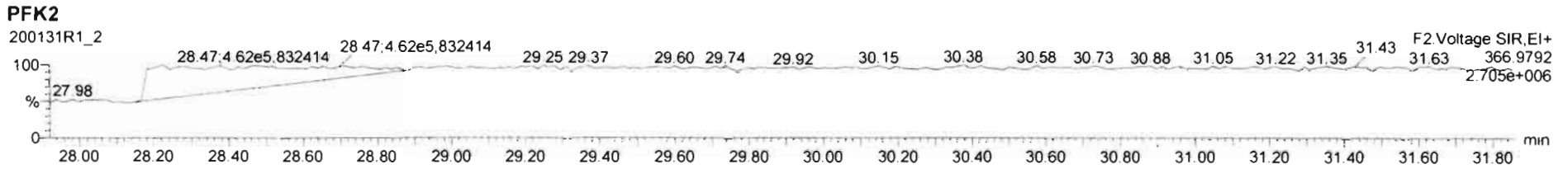
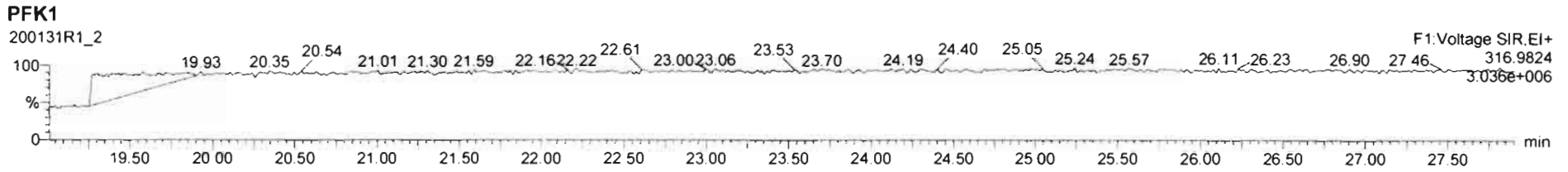


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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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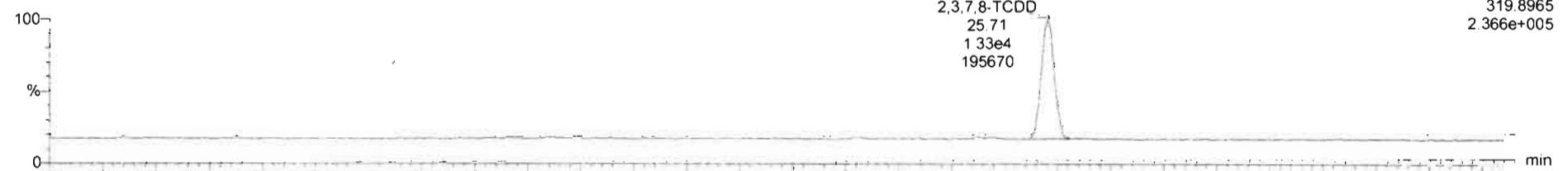
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

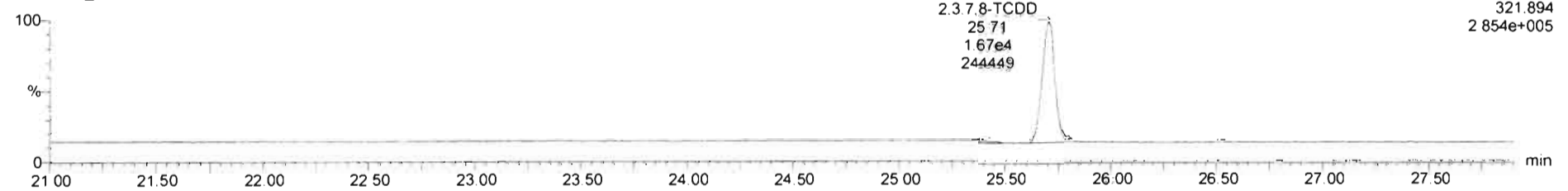
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2,3,7,8-TCDD

200131R1_3

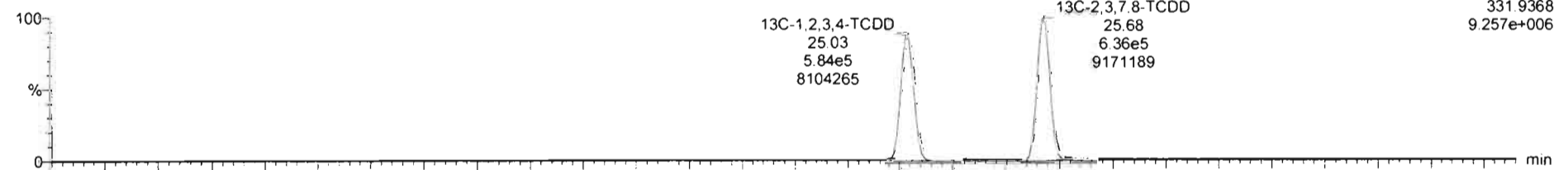


200131R1_3

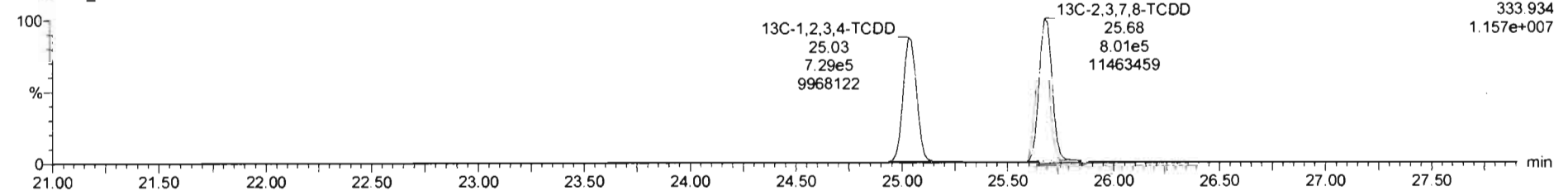


13C-2,3,7,8-TCDD

200131R1_3



200131R1_3



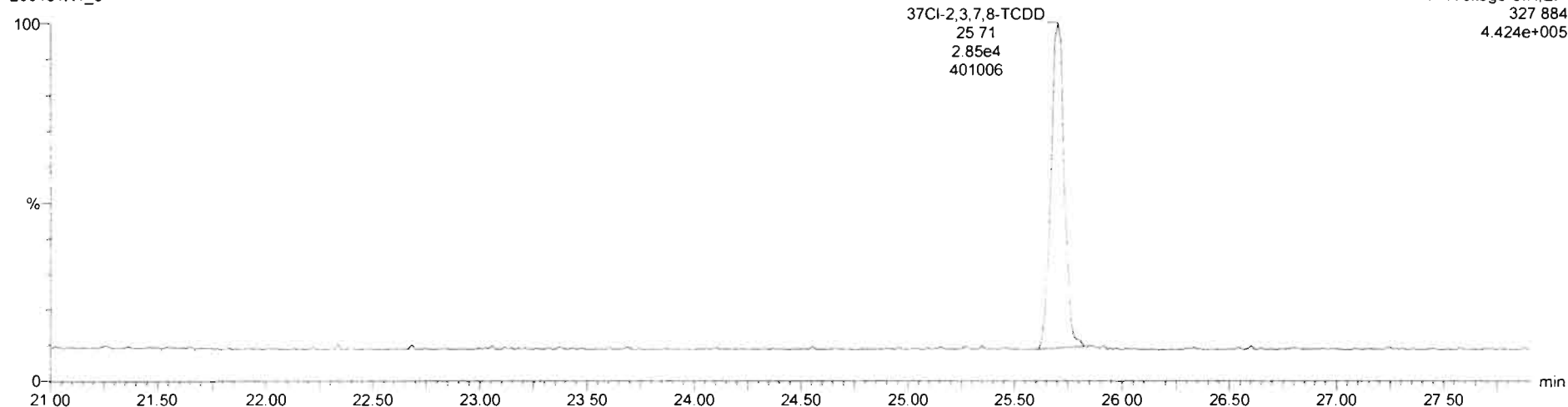
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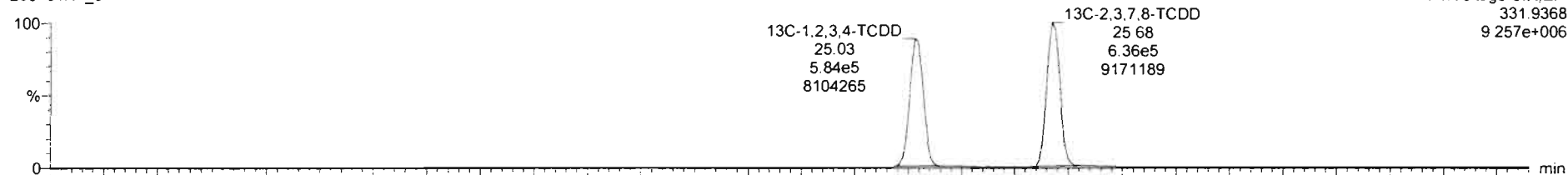
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200131R1_3

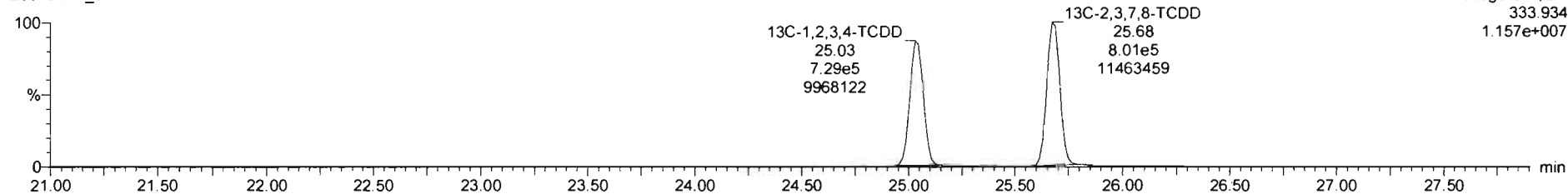


13C-1,2,3,4-TCDD

200131R1_3



200131R1_3



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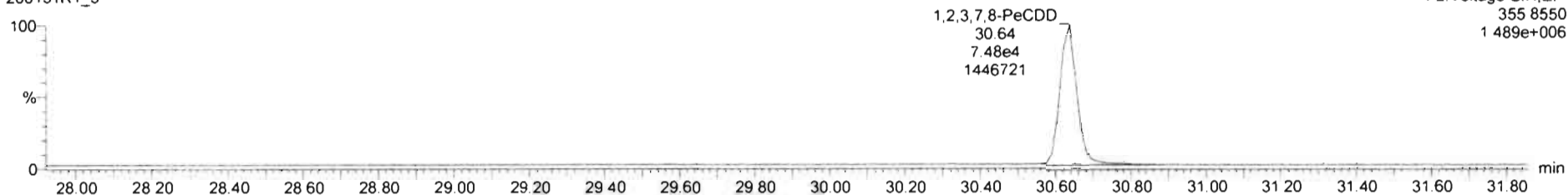
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1,2,3,7,8-PeCDD

200131R1_3

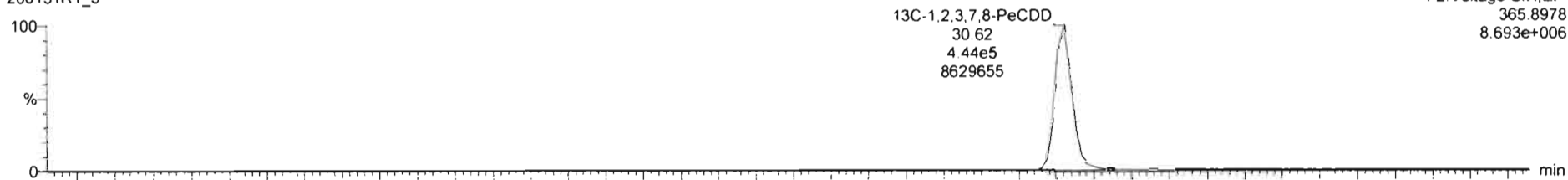


200131R1_3

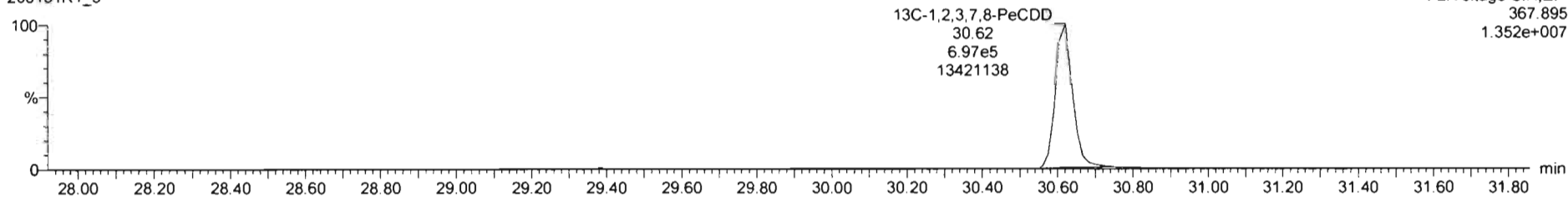


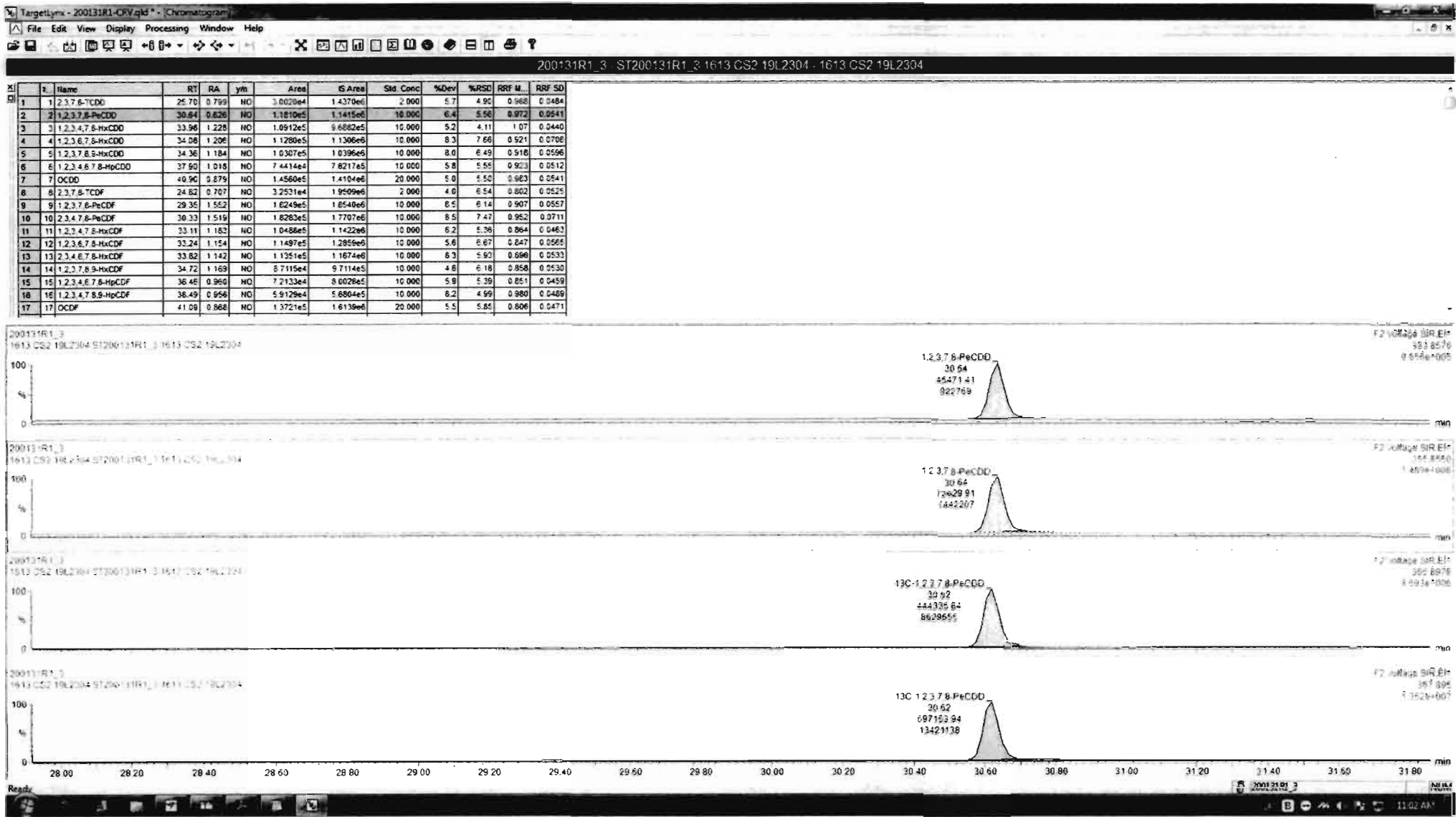
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200131R1_3



200131R1_3





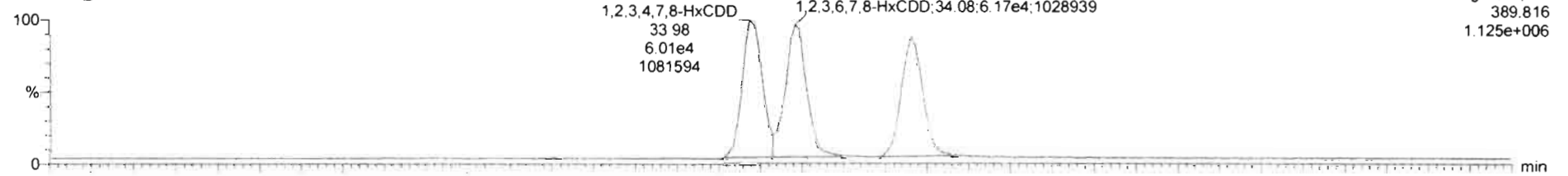
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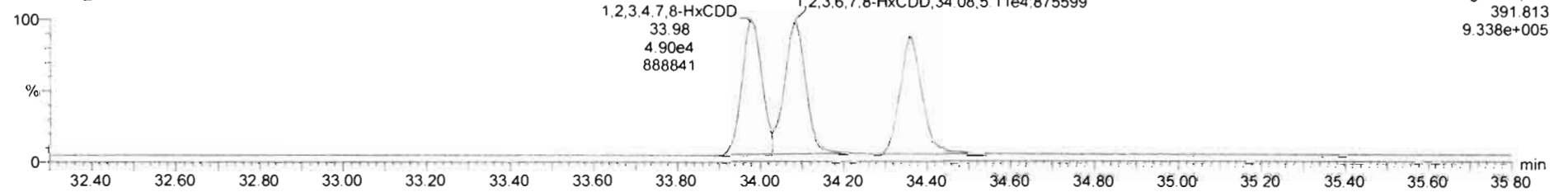
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1,2,3,4,7,8-HxCDD

200131R1_3

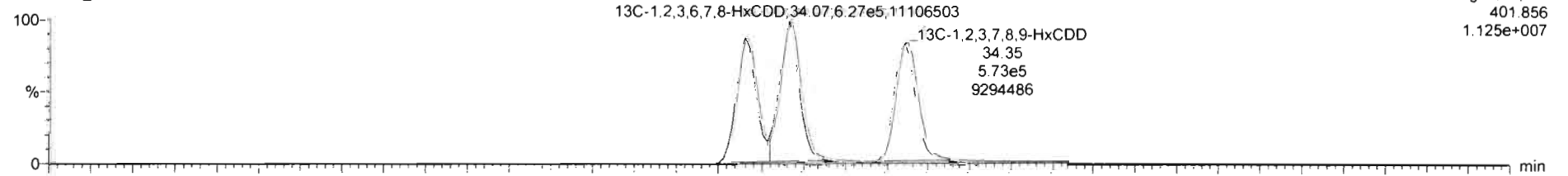


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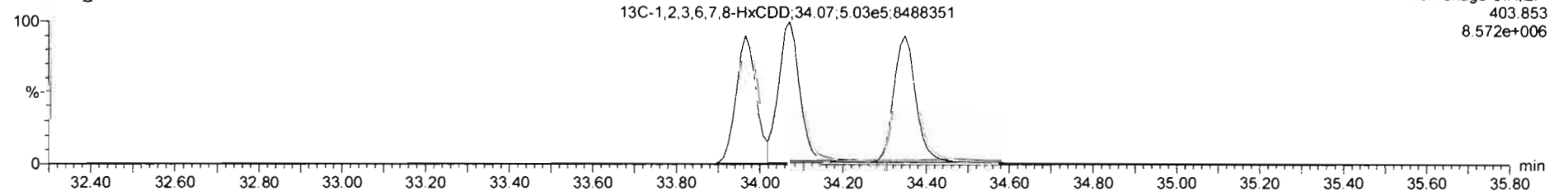


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200131R1_3



200131R1_3



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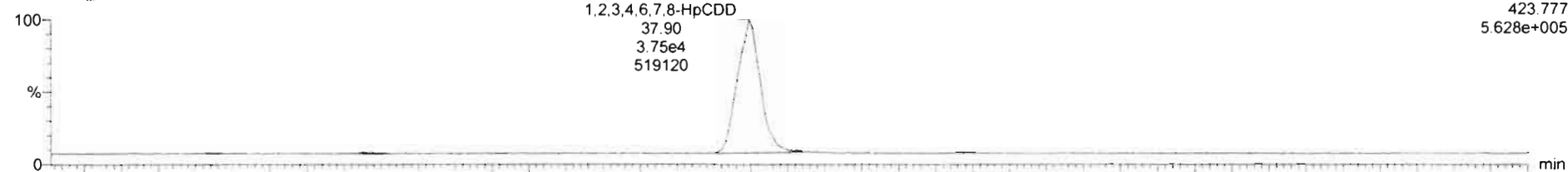
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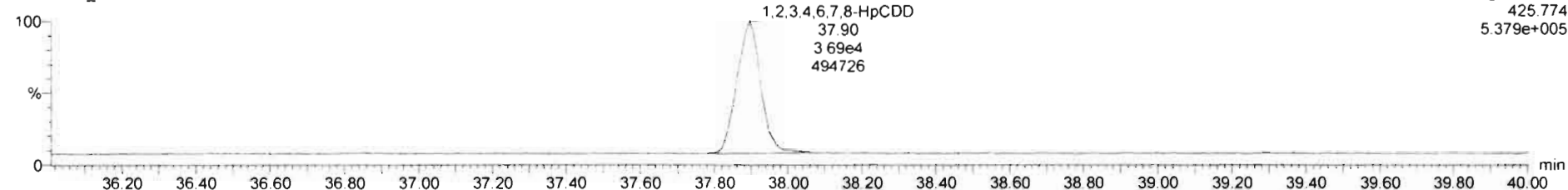
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1,2,3,4,6,7,8-HpCDD

200131R1_3

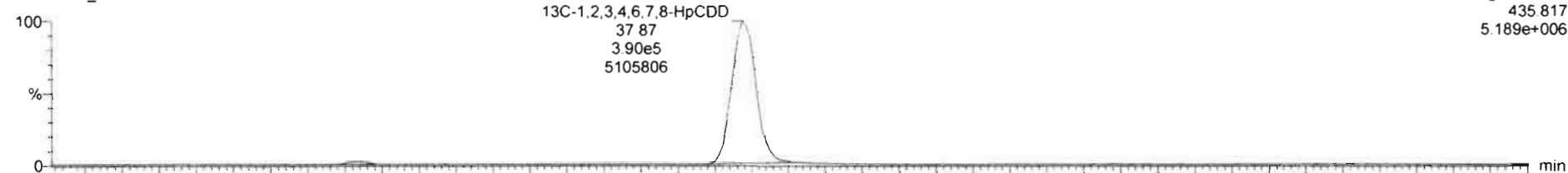


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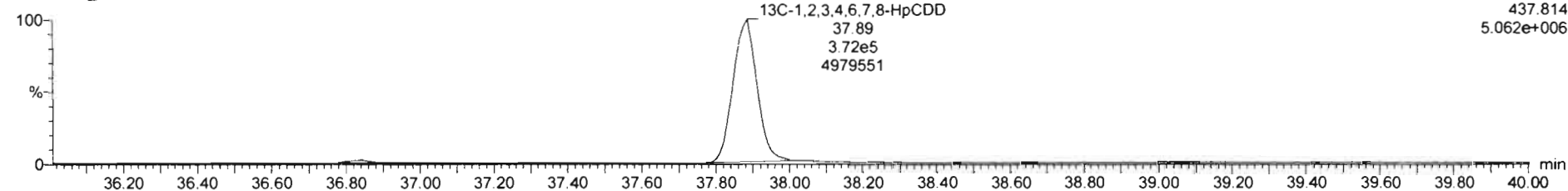


13C-1,2,3,4,6,7,8-HpCDD

200131R1_3



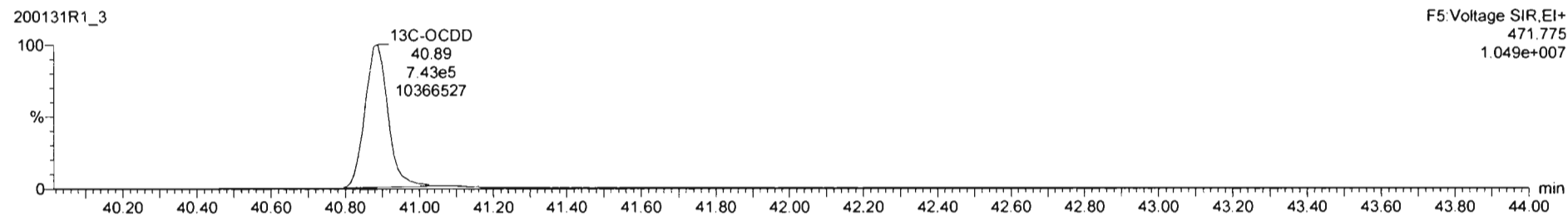
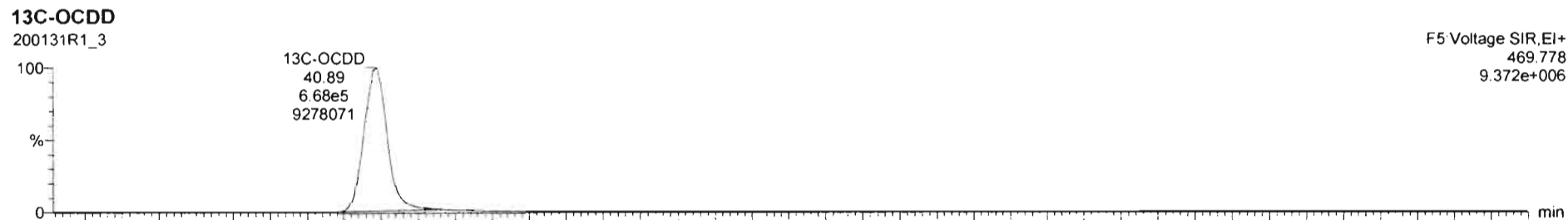
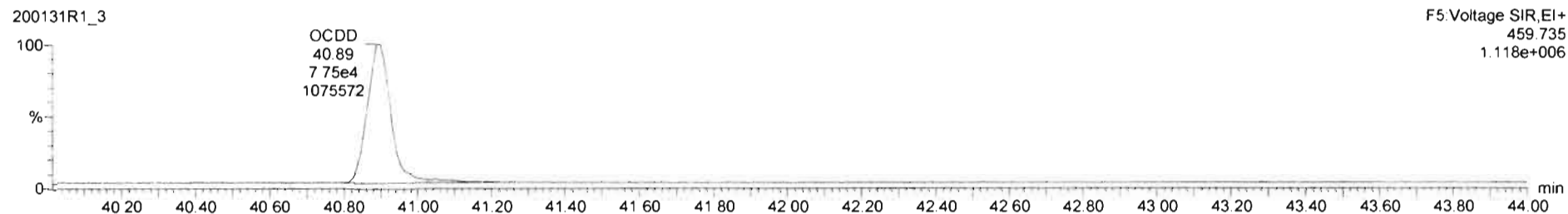
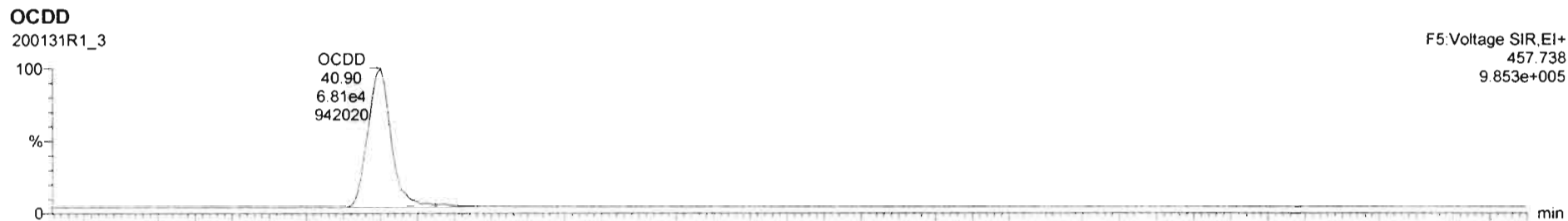
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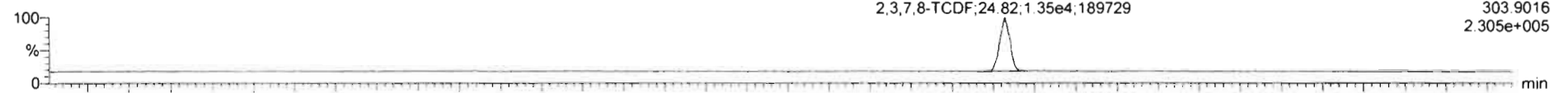
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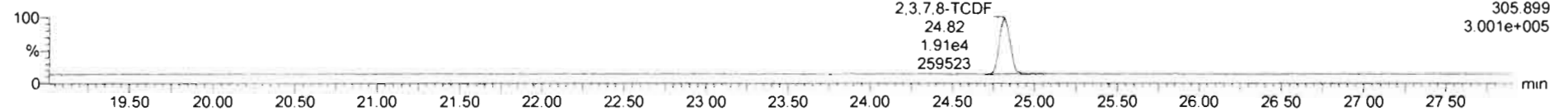
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2,3,7,8-TCDF

200131R1_3

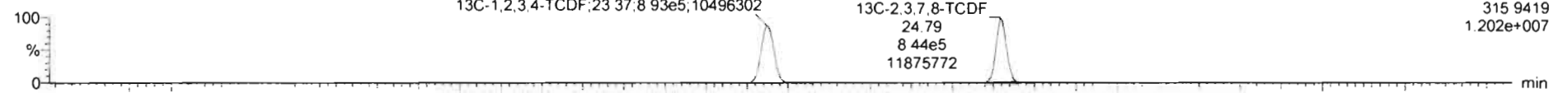


200131R1_3

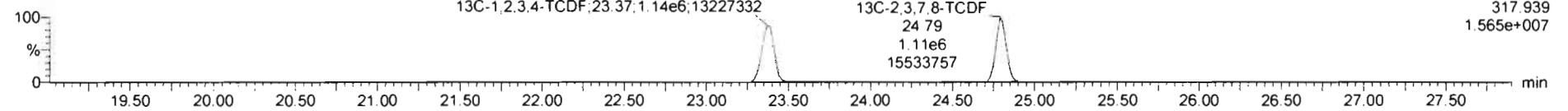


13C-2,3,7,8-TCDF

200131R1_3

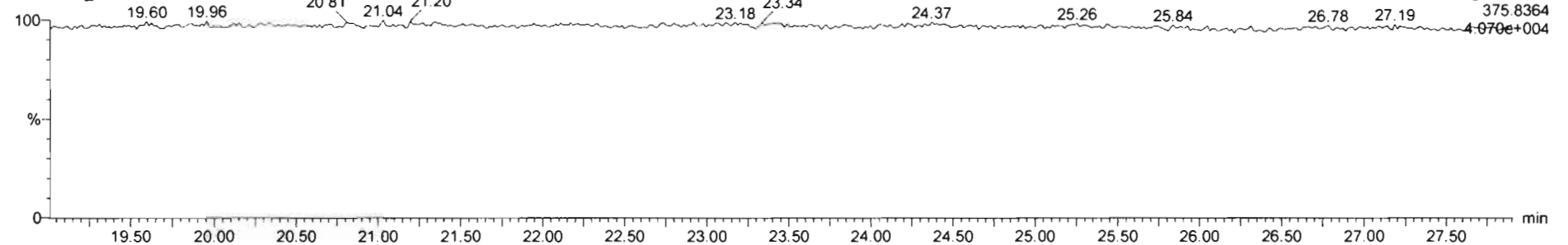


200131R1_3



DPE1

200131R1_3



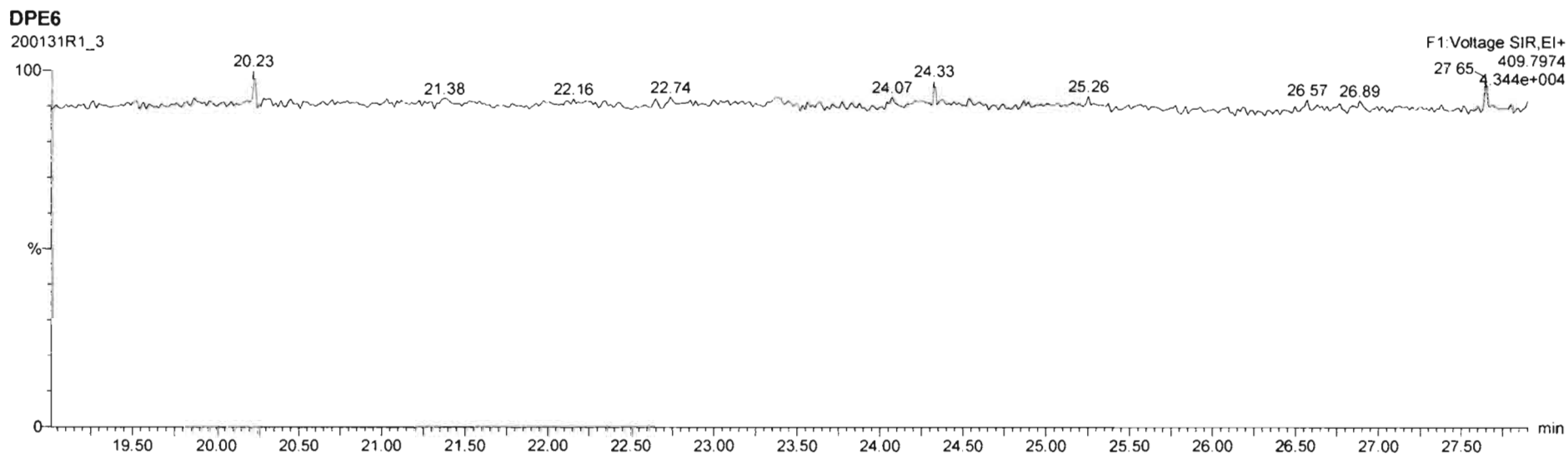
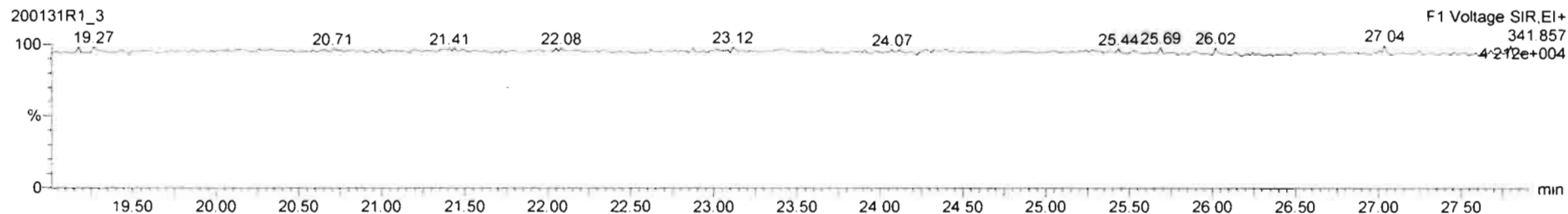
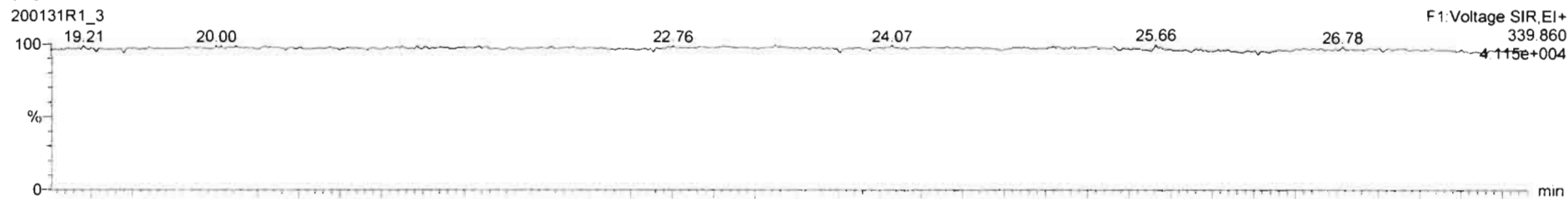
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Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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Dataset: Untitled

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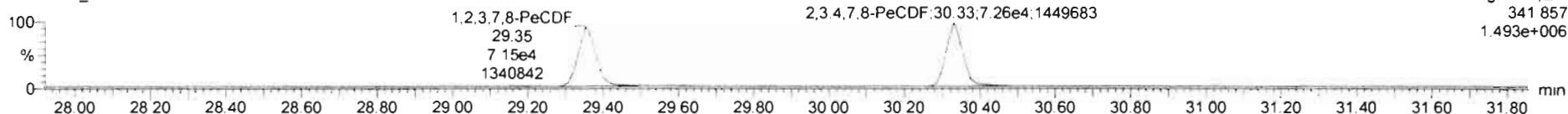
1,2,3,7,8-PeCDF

200131R1_3



F2: Voltage SIR, EI+
339.860
2.219e+006

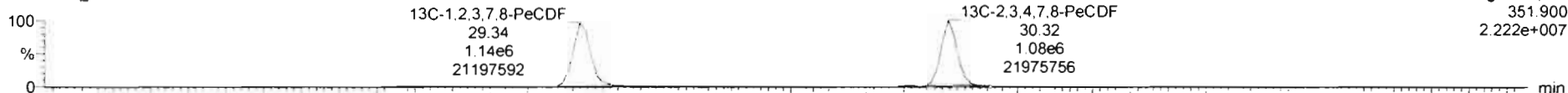
200131R1_3



F2: Voltage SIR, EI+
341.857
1.493e+006

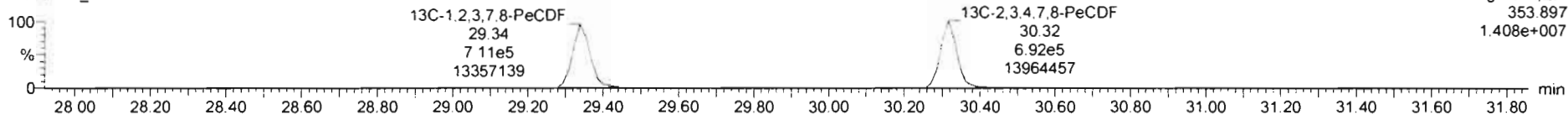
13C-1,2,3,7,8-PeCDF

200131R1_3



F2: Voltage SIR, EI+
351.900
2.222e+007

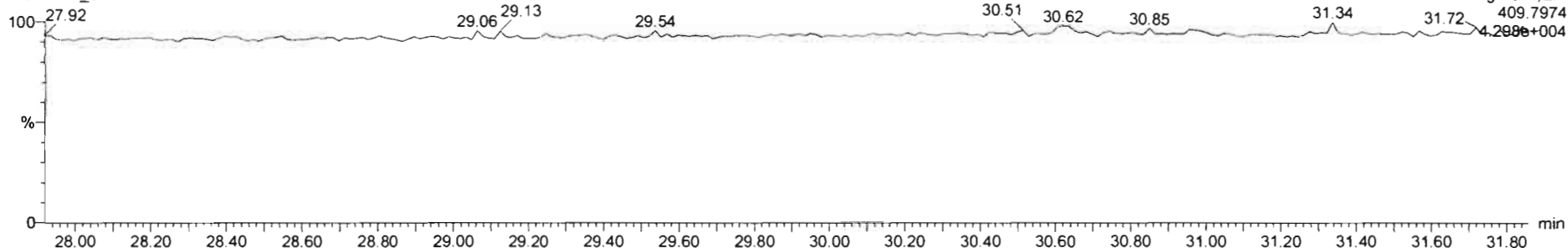
200131R1_3



F2: Voltage SIR, EI+
353.897
1.408e+007

DPE2

200131R1_3



F2: Voltage SIR, EI+
409.7974
4.29e+004

Dataset: Untitled

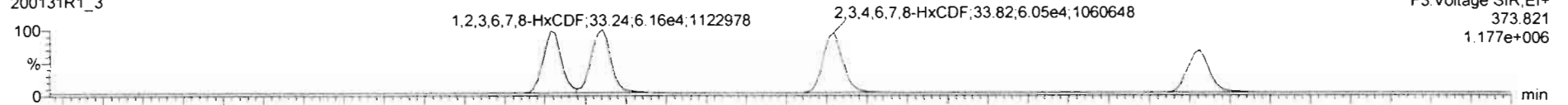
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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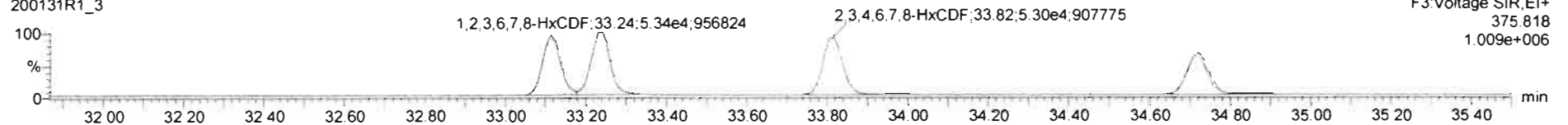
1,2,3,4,7,8-HxCDF

200131R1_3



F3: Voltage SIR, EI+
373.821
1.177e+006

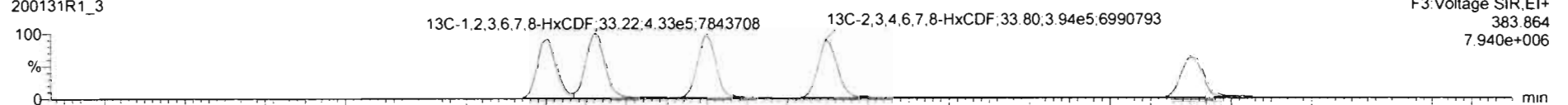
200131R1_3



F3: Voltage SIR, EI+
375.818
1.009e+006

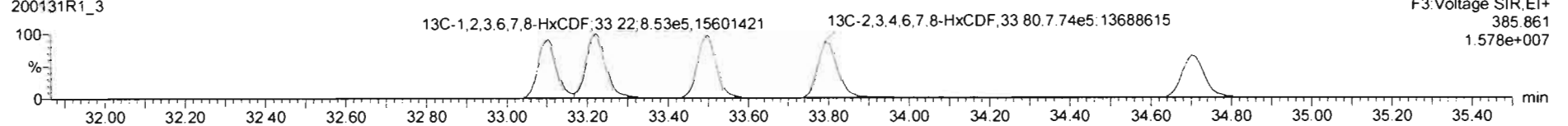
13C-1,2,3,4,7,8-HxCDF

200131R1_3



F3: Voltage SIR, EI+
383.864
7.940e+006

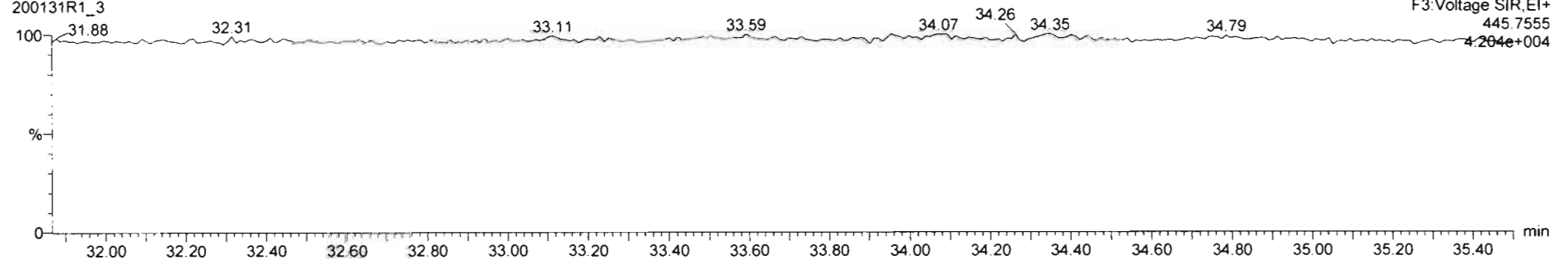
200131R1_3



F3: Voltage SIR, EI+
385.861
1.578e+007

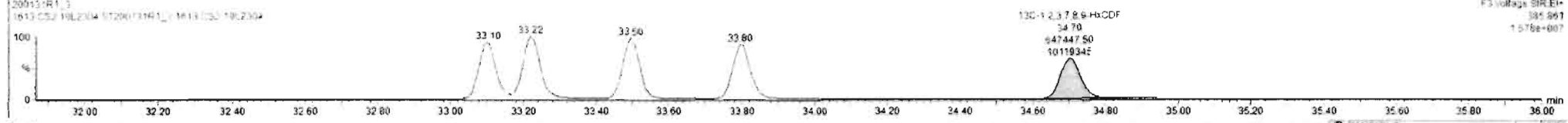
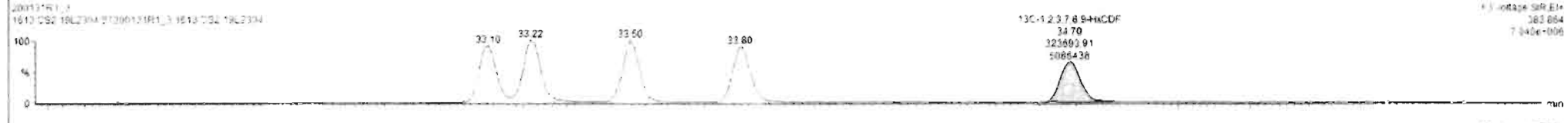
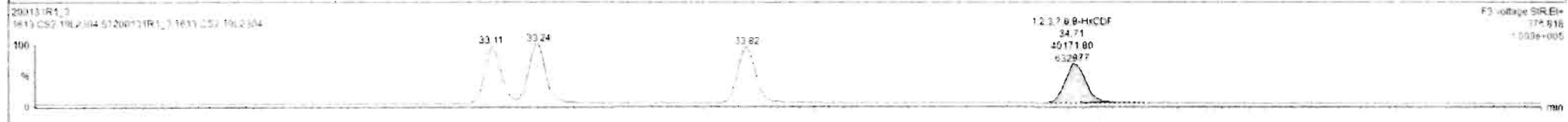
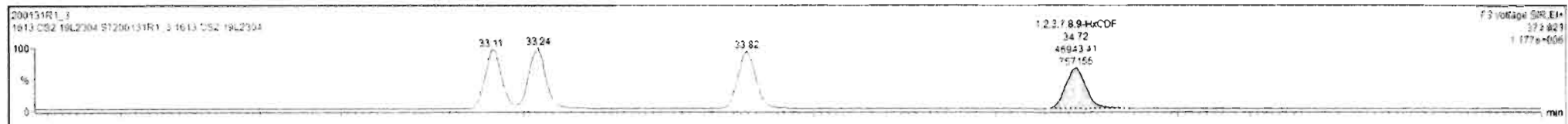
DPE3

200131R1_3



F3: Voltage SIR, EI+
445.7555
4.204e+004

#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1 2,3,7,8-TCDD	25.70	0.799	NO	3.0620e4	1.4370e6	2.000	5.7	4.90	0.968	0.0484
2	2 1,2,3,7,8-PeCDD	30.64	0.608	NO	1.2029e5	1.1415e6	10.000	6.0	6.03	0.975	0.0588
3	3 1,2,3,4,7,8-HxCDD	33.98	1.228	NO	1.0912e5	9.6882e5	10.000	5.2	4.11	1.07	0.0440
4	4 1,2,3,6,7,8-HxCDD	34.08	1.206	NO	1.1280e5	1.1308e6	10.000	8.3	7.68	0.921	0.0708
5	5 1,2,3,7,8,9-HxCDD	34.36	1.184	NO	1.0307e5	1.0396e6	10.000	8.0	6.46	0.918	0.0596
6	6 1,2,3,4,6,7,8-HpCDD	37.90	1.018	NO	7.4414e4	7.8217e5	10.000	5.8	5.55	0.923	0.0512
7	7 OCDD	40.90	0.879	NO	1.4560e5	1.4104e6	20.000	5.0	5.50	0.983	0.0541
8	8 2,3,7,8-TCDF	24.82	0.707	NO	3.2531e4	1.9509e6	2.000	4.0	6.54	0.802	0.0525
9	9 1,2,3,7,8-PeCDF	29.35	1.552	NO	1.6249e5	1.8540e6	10.000	6.5	6.14	0.907	0.0557
10	10 2,3,4,7,8-PeCDF	30.33	1.519	NO	1.6283e5	1.7707e6	10.000	8.5	7.47	0.952	0.0711
11	11 1,2,3,4,7,8-HxCDF	33.11	1.183	NO	1.0486e5	1.1422e6	10.000	6.2	5.36	0.864	0.0463
12	12 1,2,3,6,7,8-HxCDF	33.24	1.154	NO	1.1497e5	1.2659e6	10.000	5.6	6.67	0.647	0.0565
13	13 2,3,4,6,7,8-HxCDF	33.82	1.142	NO	1.1351e5	1.1674e6	10.000	6.3	5.93	0.896	0.0533
14	14 1,2,3,7,8,9-HxCDF	34.72	1.169	NO	8.7115e4	9.7114e5	10.000	4.6	6.18	0.850	0.0530
15	15 1,2,3,4,6,7,8-HpCDF	36.46	0.960	NO	7.2133e4	8.0026e5	10.000	5.9	5.39	0.851	0.0459
16	16 1,2,3,4,7,8,9-HxCDF	36.49	0.956	NO	5.9129e4	5.8604e5	10.000	6.2	4.99	0.980	0.0469
17	17 OCDF	41.06	0.868	NO	1.3721e5	1.6139e6	20.000	5.5	5.85	0.806	0.0471



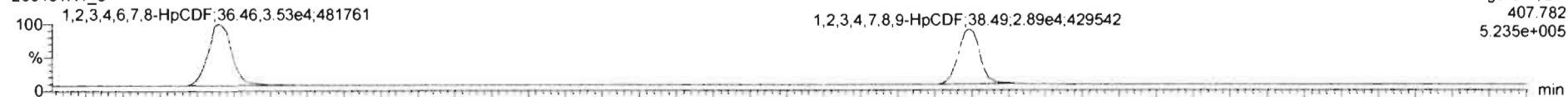
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

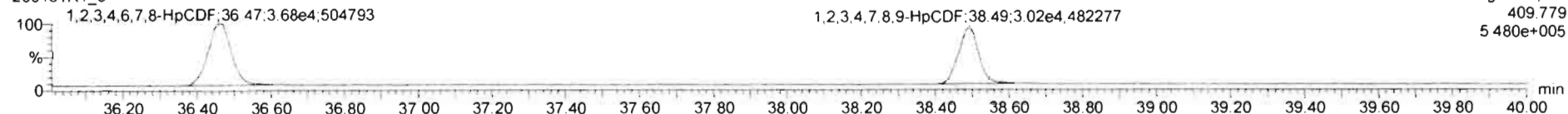
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1,2,3,4,6,7,8-HpCDF

200131R1_3

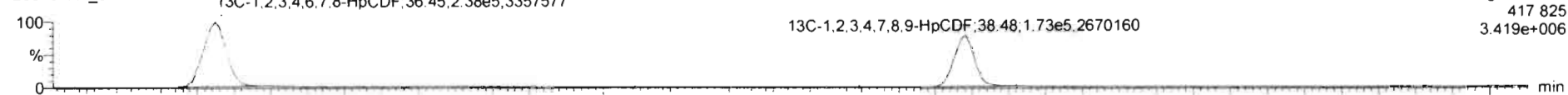


200131R1_3

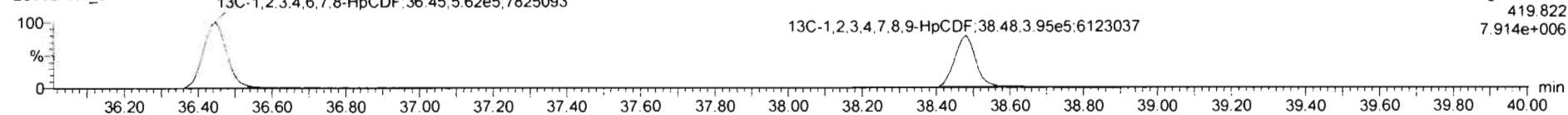


13C-1,2,3,4,6,7,8-HpCDF

200131R1_3

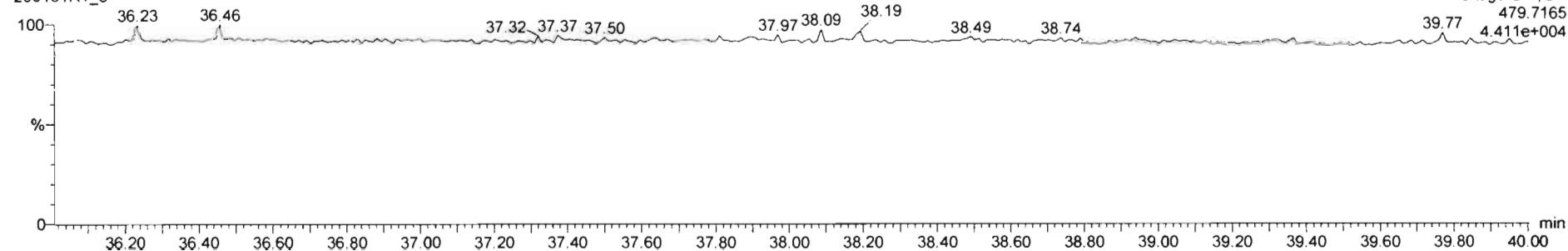


200131R1_3



DPE4

200131R1_3



Dataset: Untitled

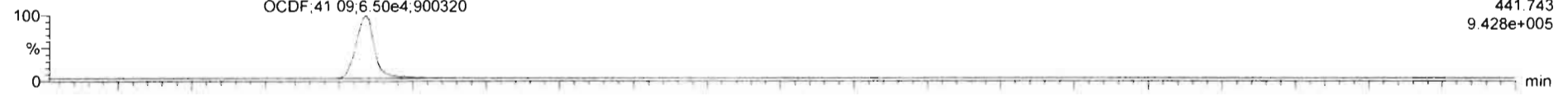
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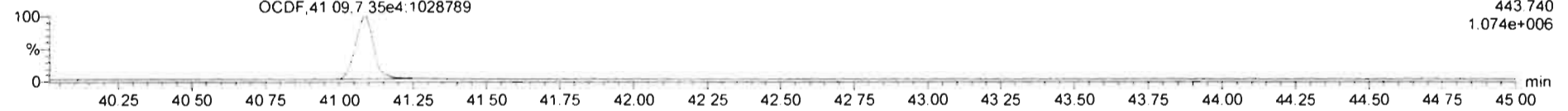
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OCDF

200131R1_3

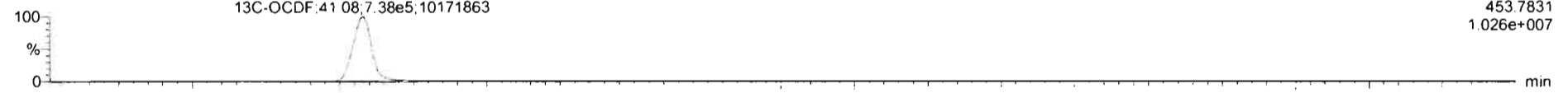


200131R1_3

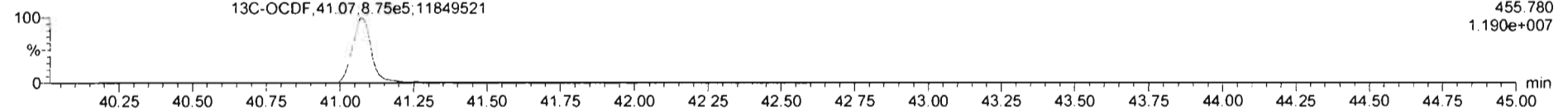


13C-OCDF

200131R1_3

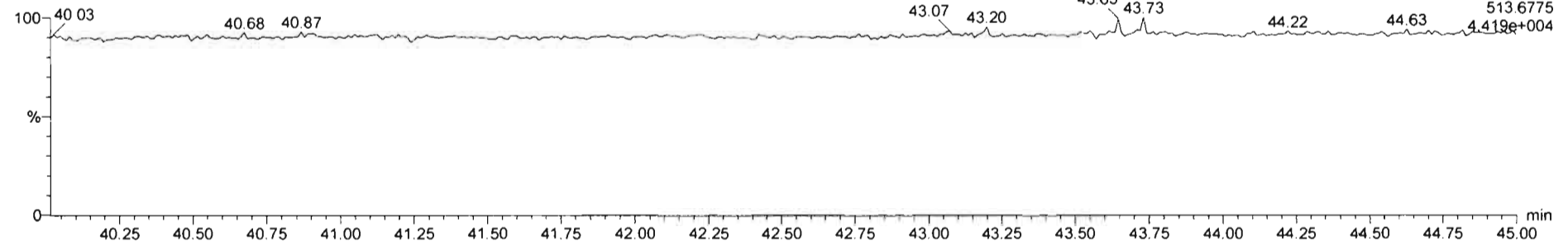


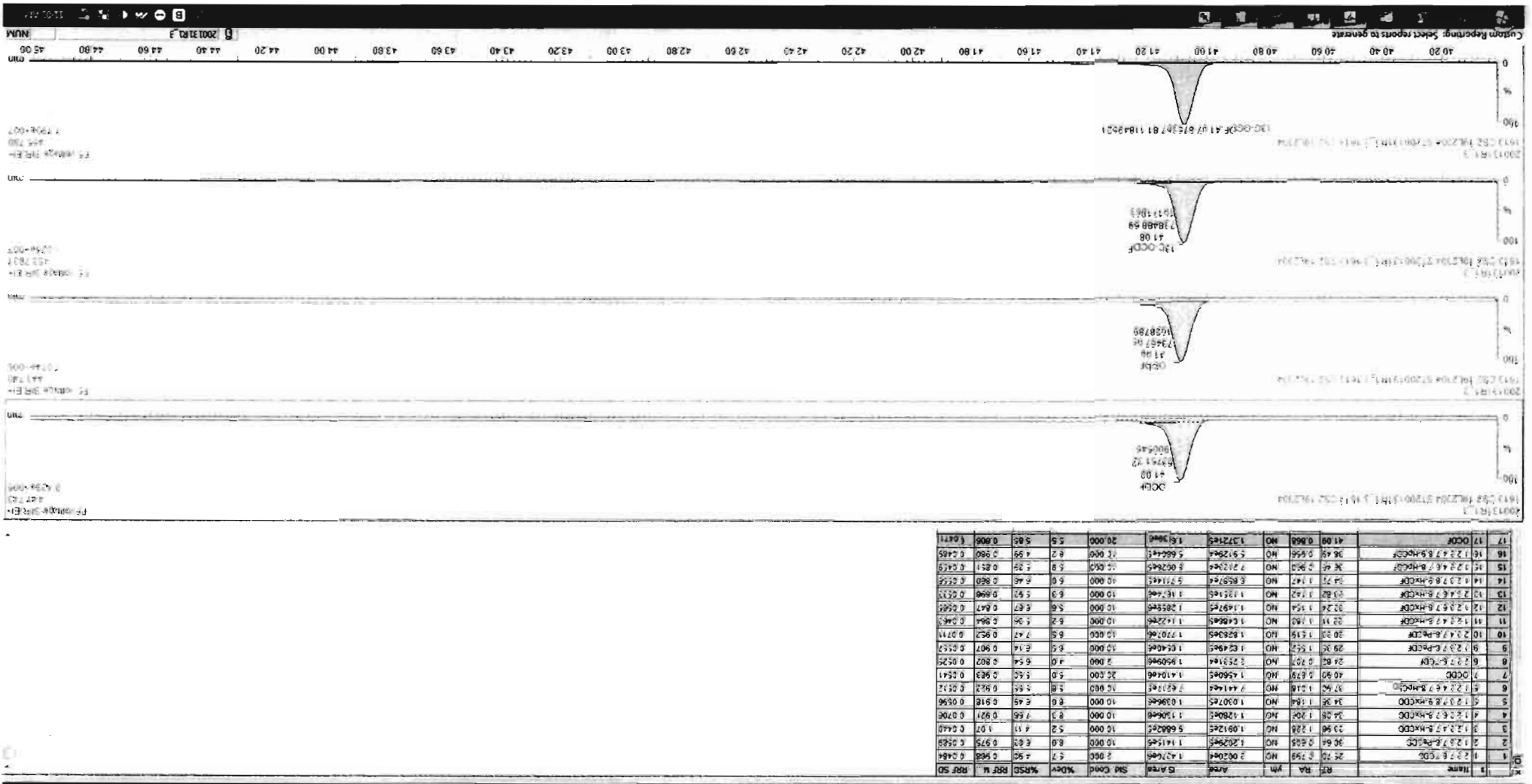
200131R1_3



DPE5

200131R1_3





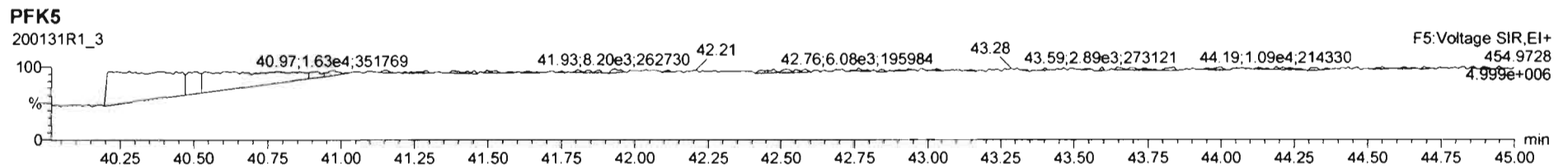
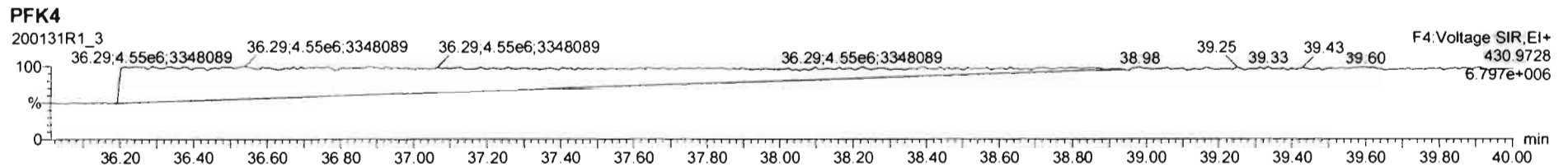
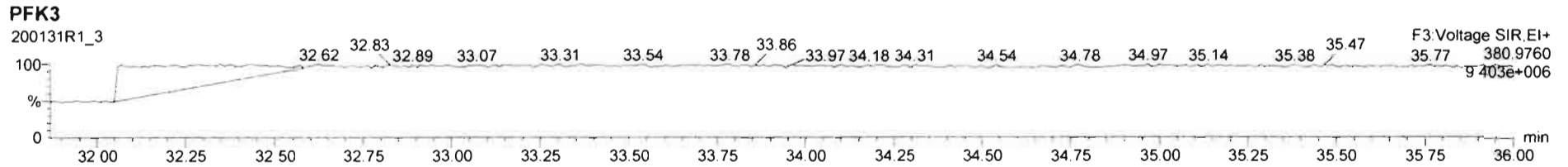
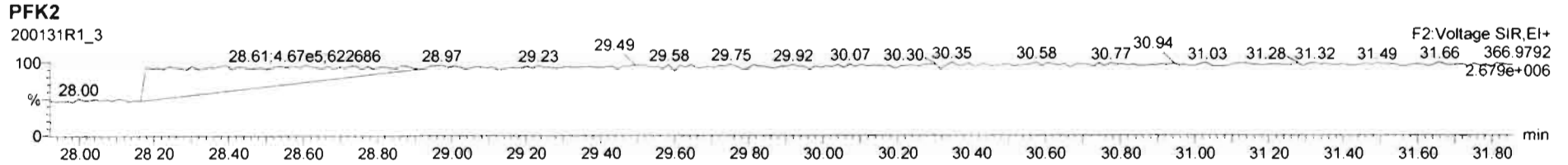
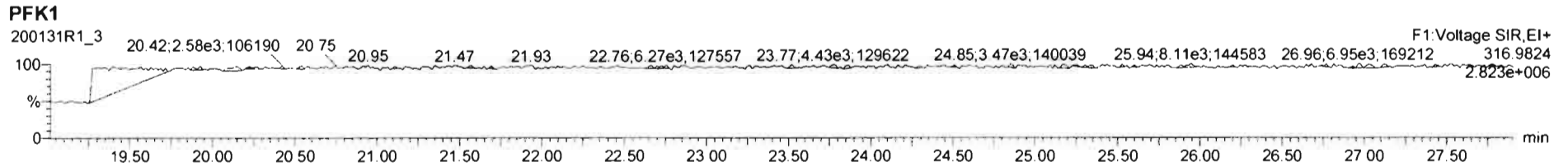
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17	130-OCDF	41.08	0.868	NO	1.3721e5	1.6319e6	5.5	5.82	0.806
16	130-OCDF	36.48	0.956	NO	5.9129e4	5.6644e5	6.7	4.99	0.900
15	130-OCDF	36.48	0.950	NO	7.2123e4	6.0284e5	5.9	5.39	0.851
14	130-OCDF	34.72	1.147	NO	6.8597e4	5.7114e5	6.0	6.48	0.860
13	130-OCDF	32.82	1.142	NO	1.1321e5	1.1674e6	6.3	5.92	0.898
12	130-OCDF	32.24	1.154	NO	1.1497e5	1.2858e6	5.6	6.67	0.847
11	130-OCDF	32.18	1.130	NO	1.1422e5	1.1000e6	6.2	5.36	0.864
10	130-OCDF	30.33	1.119	NO	1.8253e5	1.7707e6	6.5	7.47	0.952
9	130-OCDF	29.36	1.152	NO	1.8248e5	1.0200e6	6.5	6.14	0.907
8	130-OCDF	24.80	0.707	NO	1.2531e4	1.9599e5	2.000	4.0	0.802
7	130-OCDF	40.80	0.879	NO	1.1560e5	1.4104e6	5.0	5.50	0.983
6	130-OCDF	37.50	1.018	NO	7.4414e4	7.6217e5	5.8	5.65	0.932
5	130-OCDF	34.38	1.164	NO	1.0307e5	1.0396e6	6.0	6.45	0.918
4	130-OCDF	34.08	1.208	NO	1.1280e5	1.1306e6	6.3	7.68	0.921
3	130-OCDF	33.96	1.228	NO	1.0912e5	5.6882e5	5.2	4.11	1.07
2	130-OCDF	36.66	0.855	NO	1.2029e5	1.1415e6	6.0	6.63	0.975
1	130-OCDF	25.70	0.799	NO	2.0020e4	1.4216e5	2.960	1.90	0.968

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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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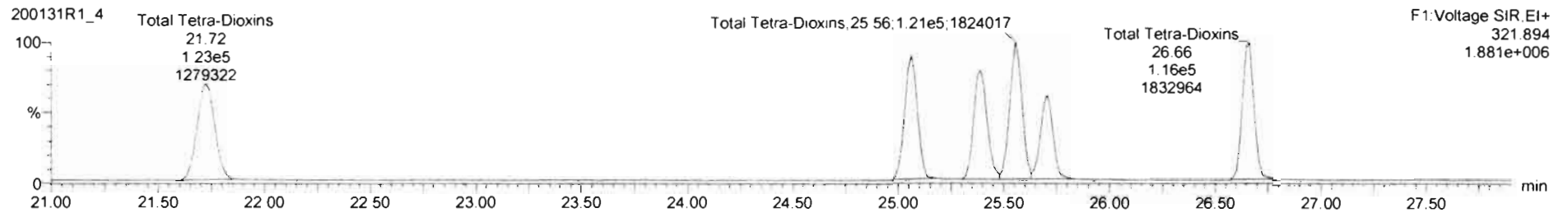
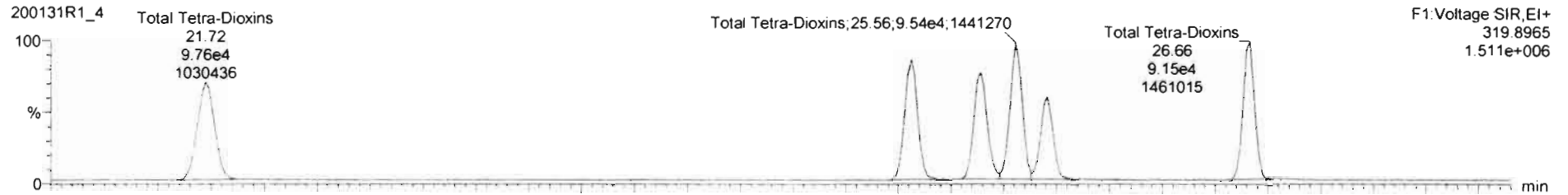


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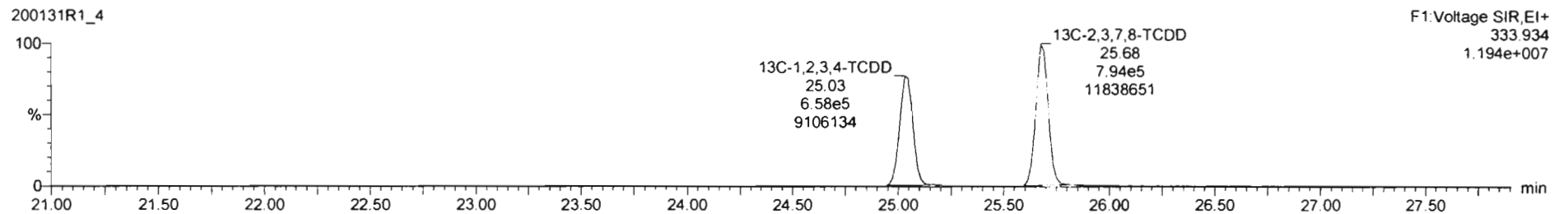
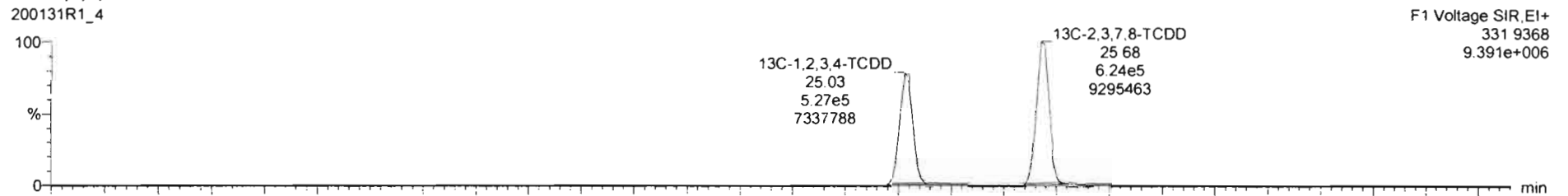
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Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



Dataset: Untitled

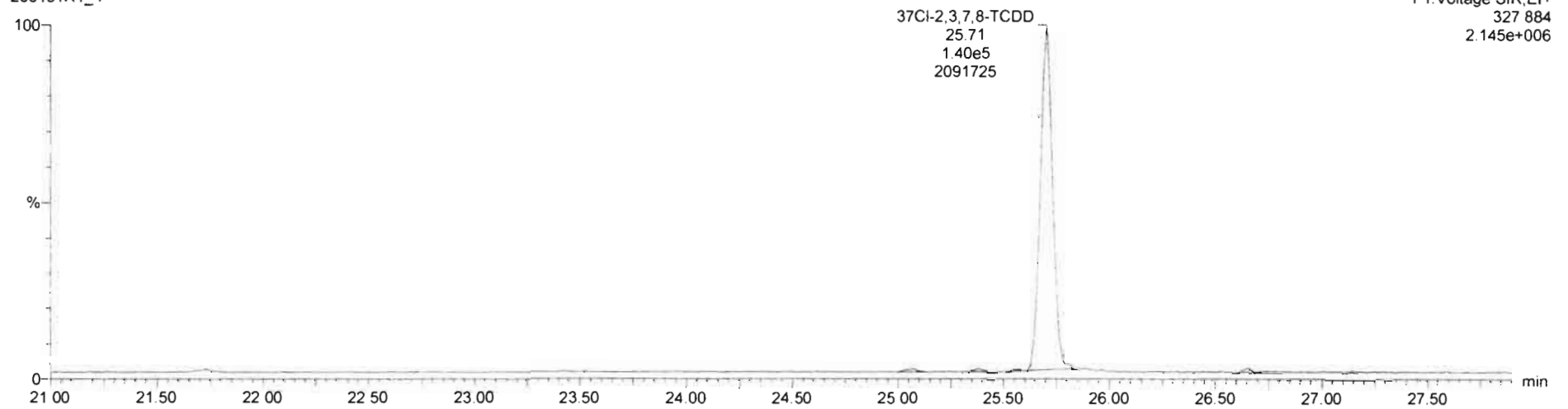
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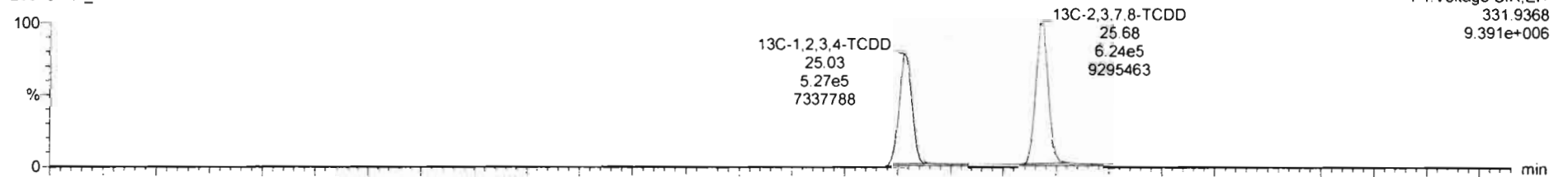
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200131R1_4

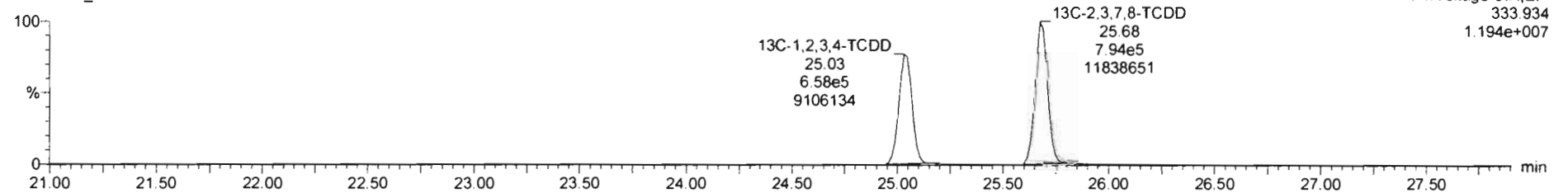


13C-1,2,3,4-TCDD

200131R1_4



200131R1_4

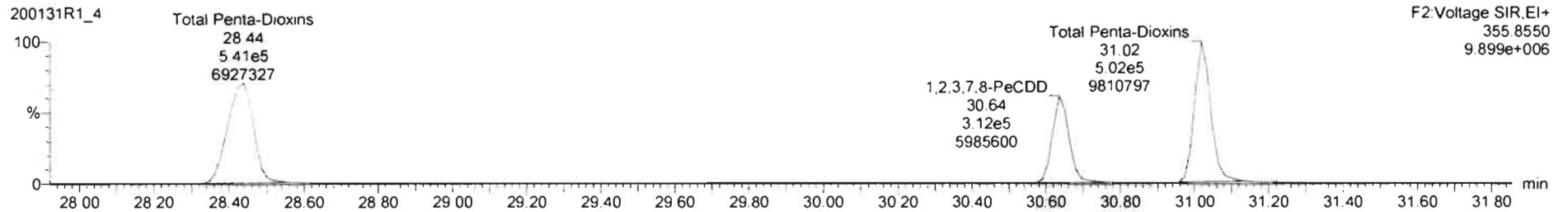
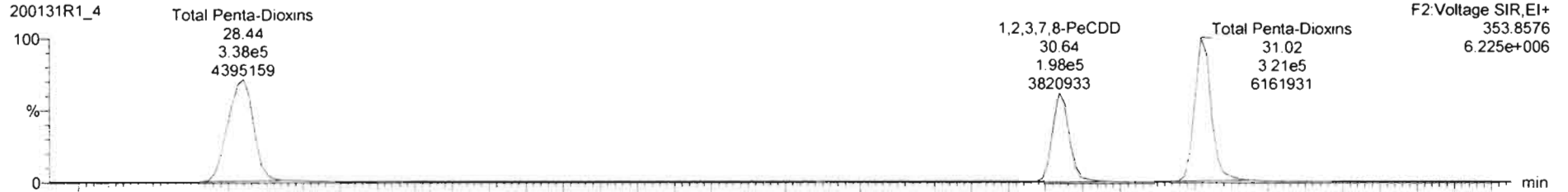


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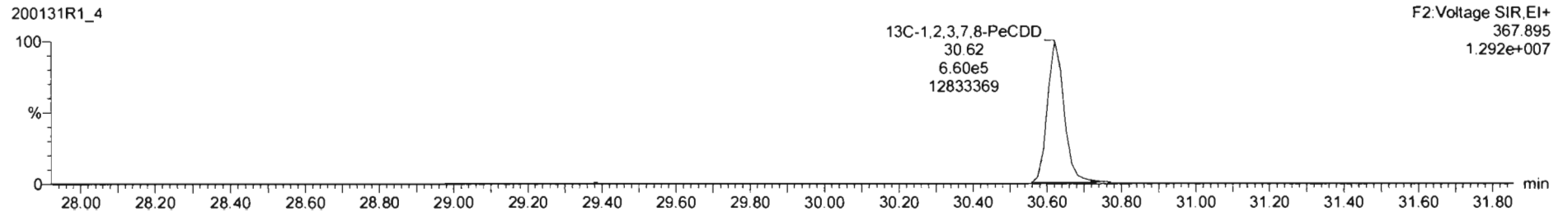
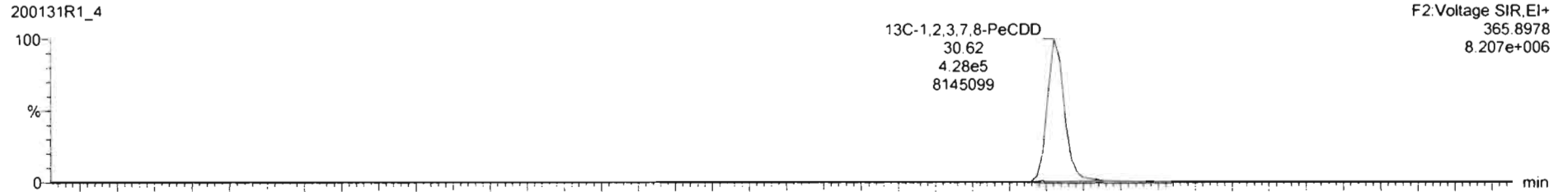
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1,2,3,7,8-PeCDD



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



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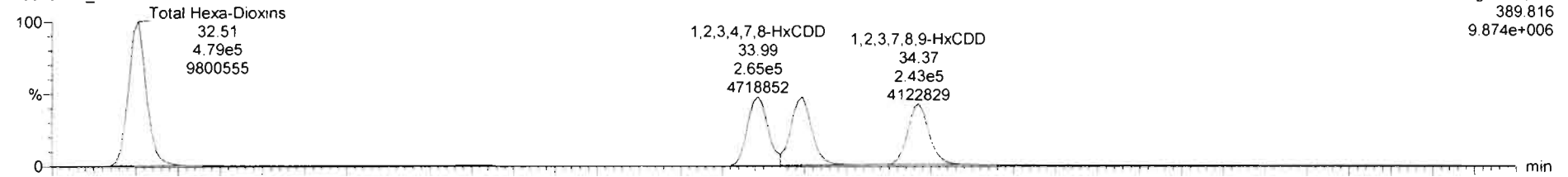
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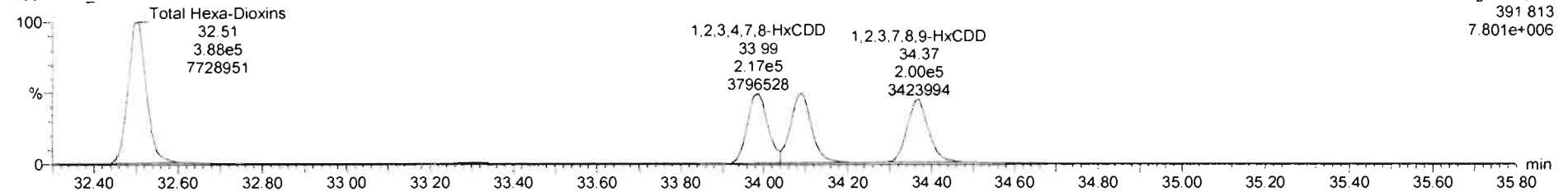
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1,2,3,4,7,8-HxCDD

200131R1_4

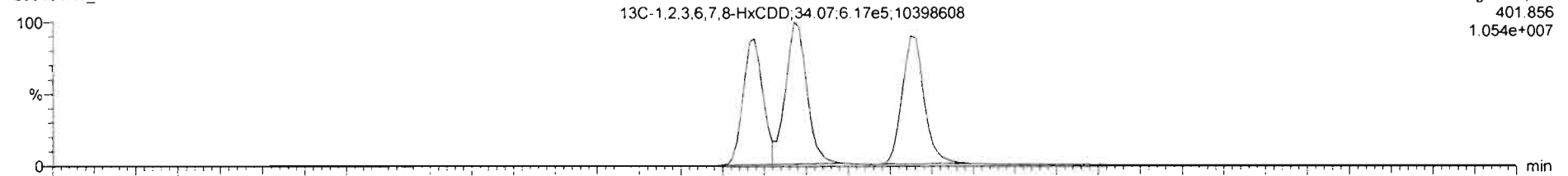


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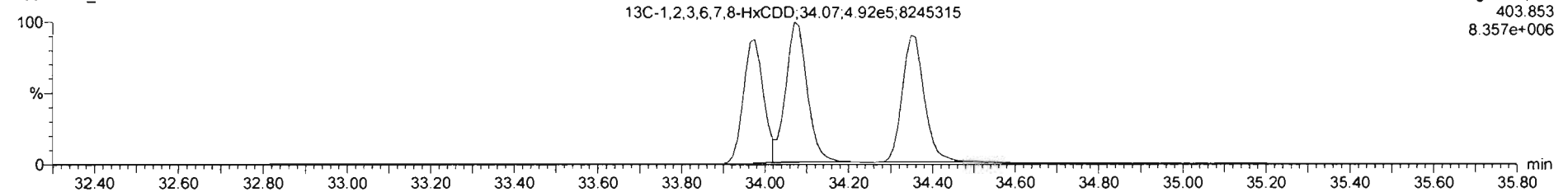


13C-1,2,3,4,7,8-HxCDD

200131R1_4



200131R1_4



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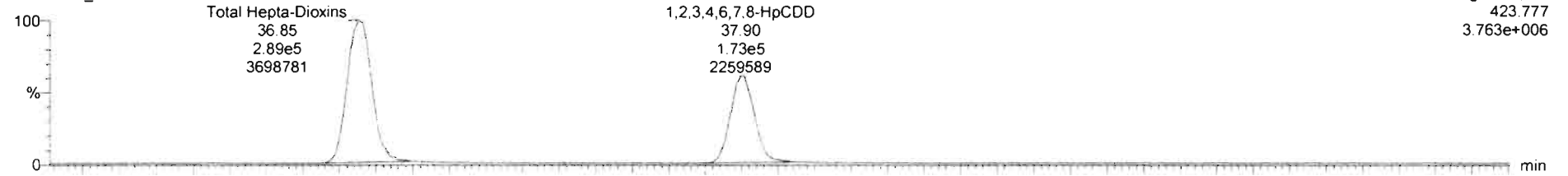
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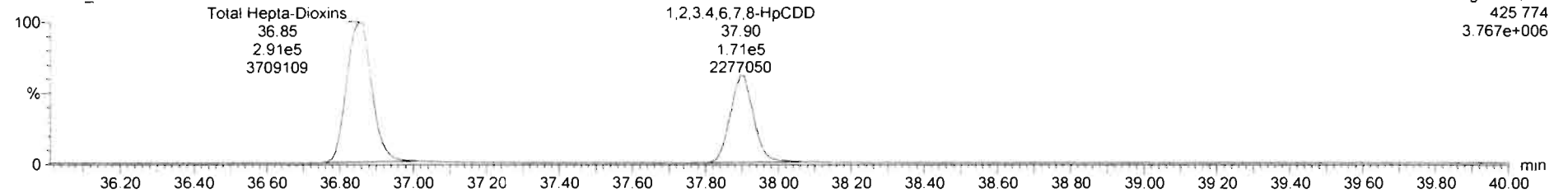
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1,2,3,4,6,7,8-HpCDD

200131R1_4

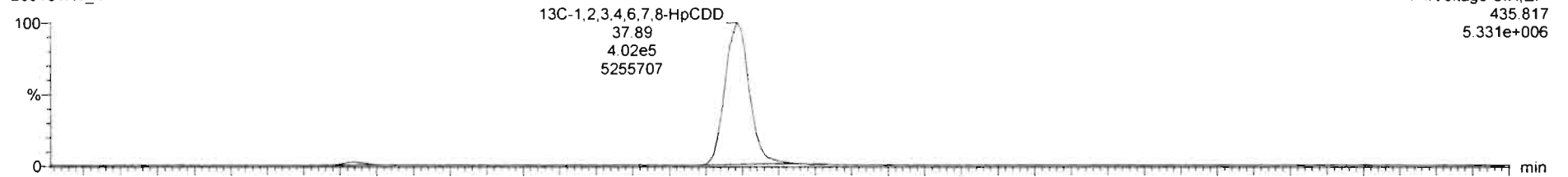


200131R1_4

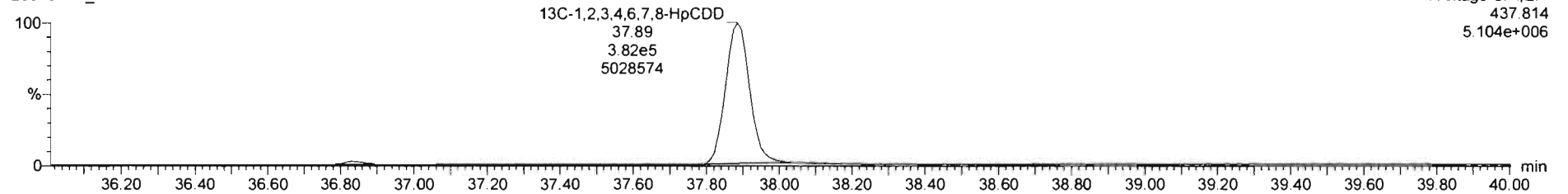


13C-1,2,3,4,6,7,8-HpCDD

200131R1_4



200131R1_4

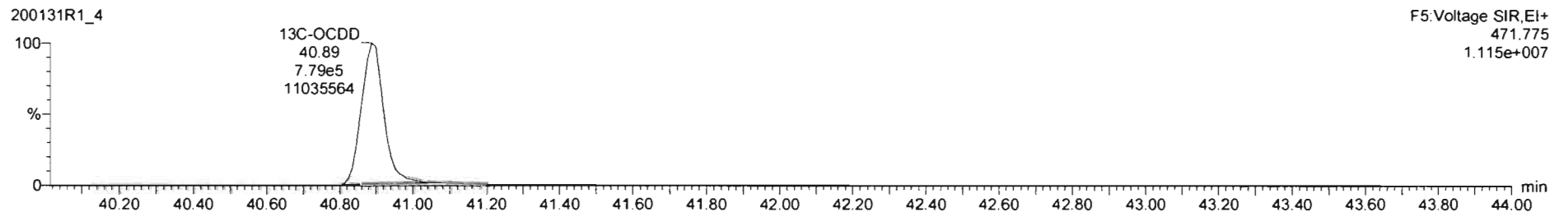
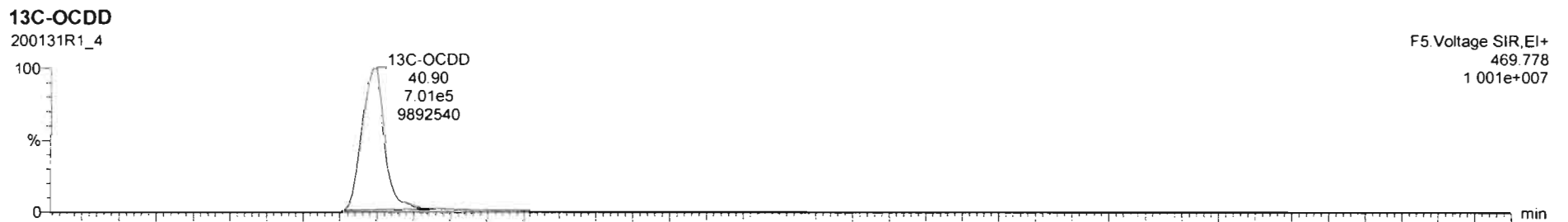
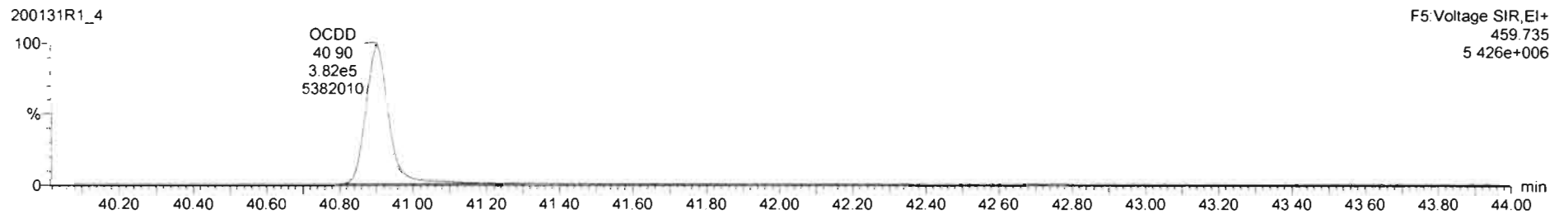
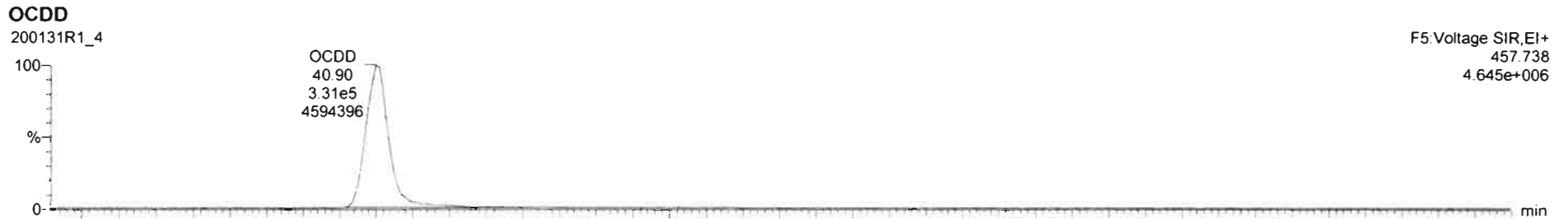


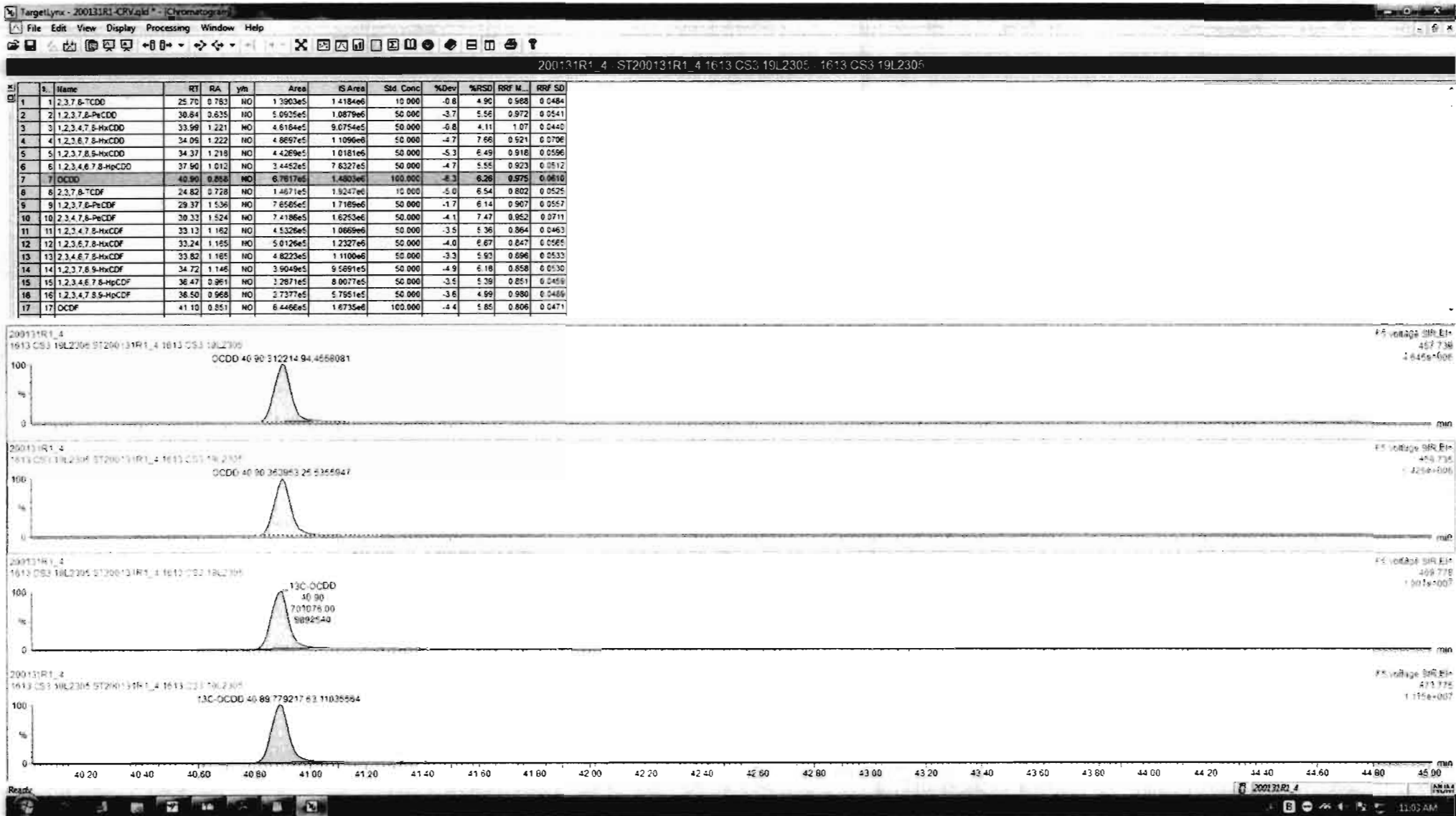
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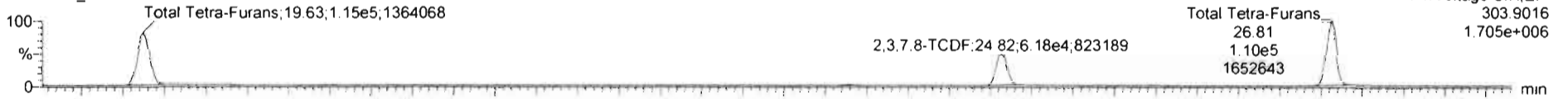
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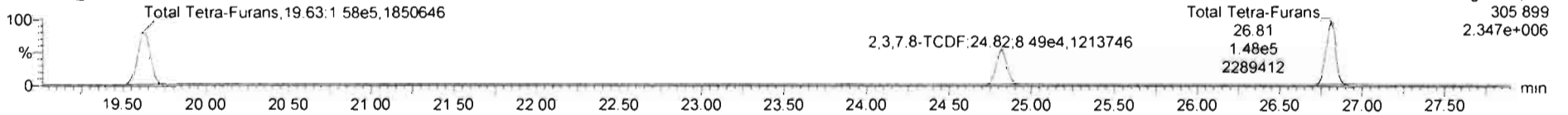
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2,3,7,8-TCDF

200131R1_4

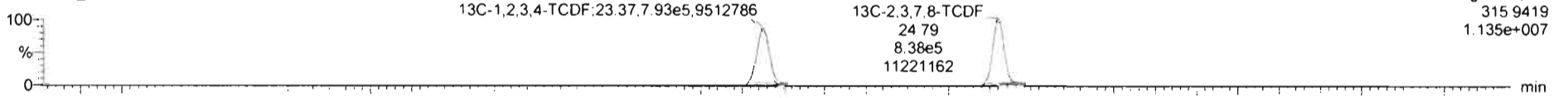


200131R1_4

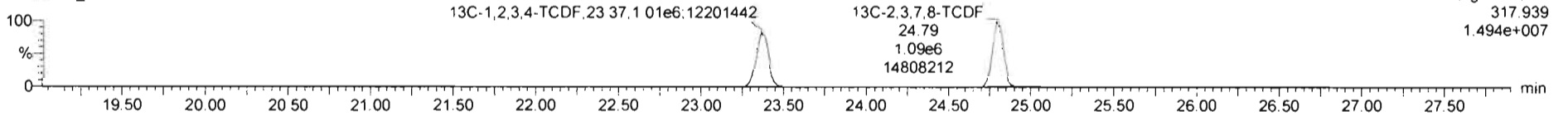


13C-2,3,7,8-TCDF

200131R1_4

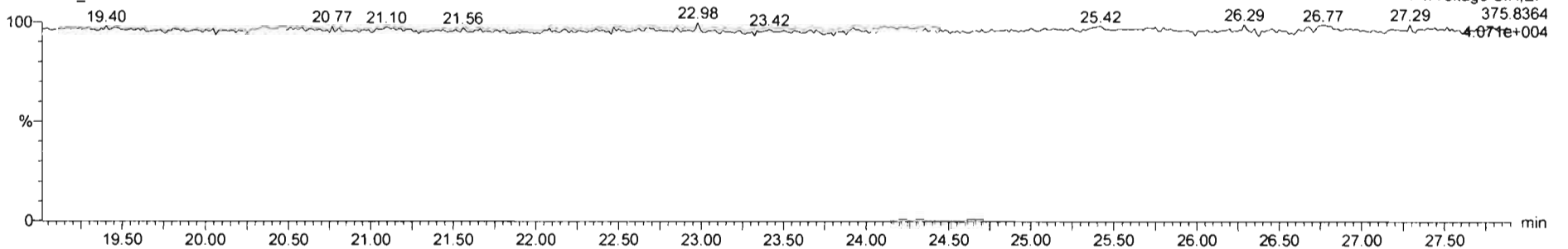


200131R1_4



DPE1

200131R1_4



Dataset: Untitled

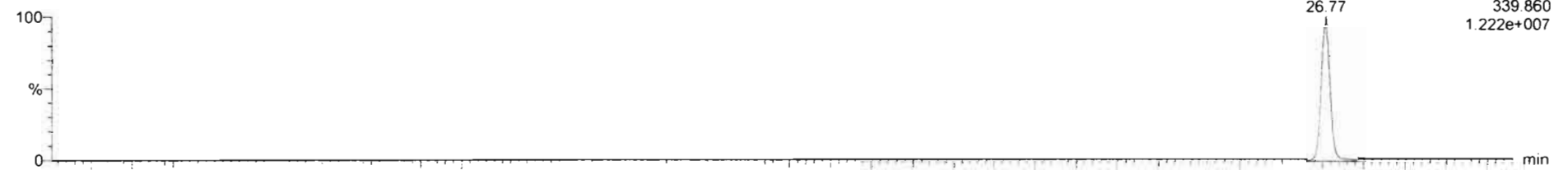
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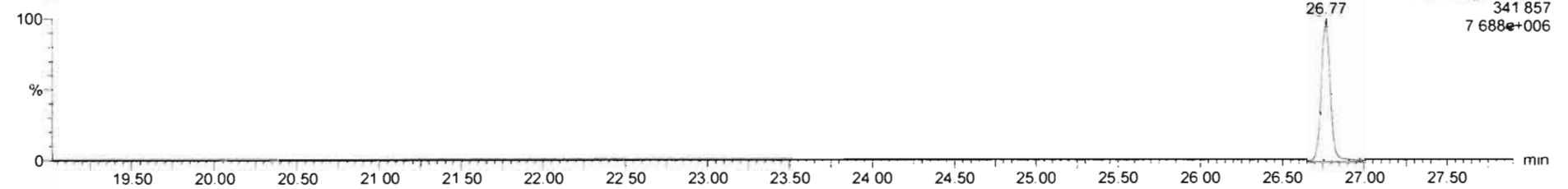
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200131R1_4

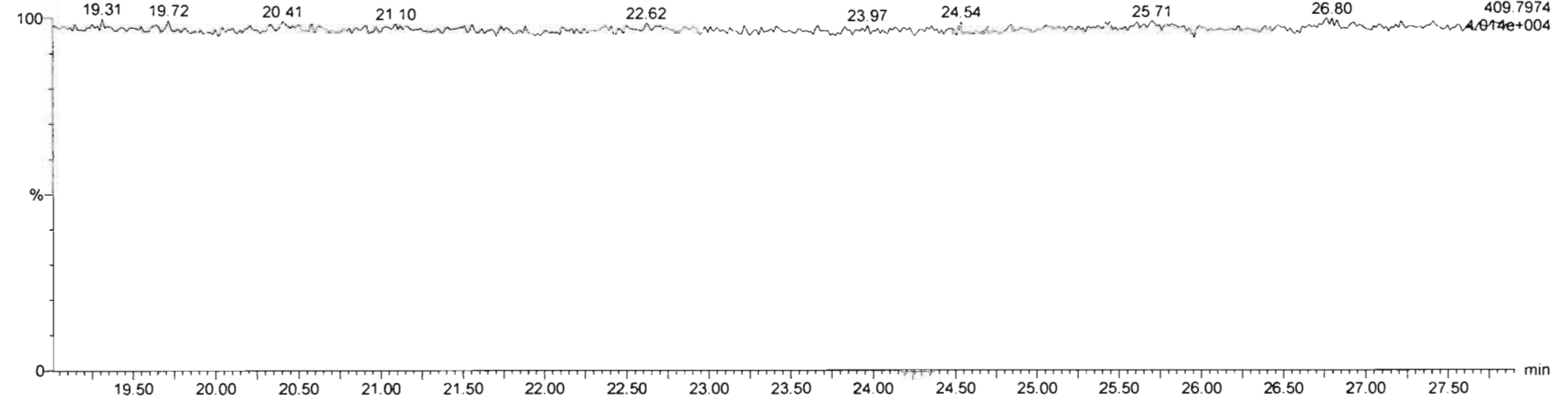


200131R1_4



DPE6

200131R1_4



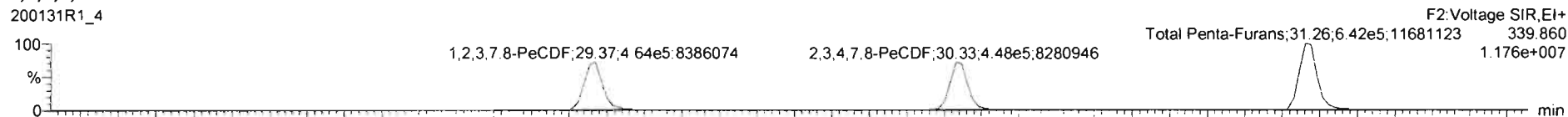
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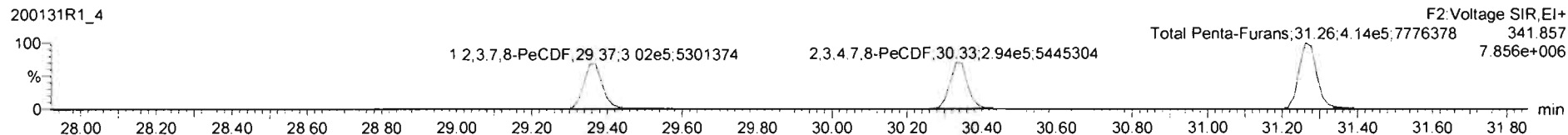
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1,2,3,7,8-PeCDF

200131R1_4

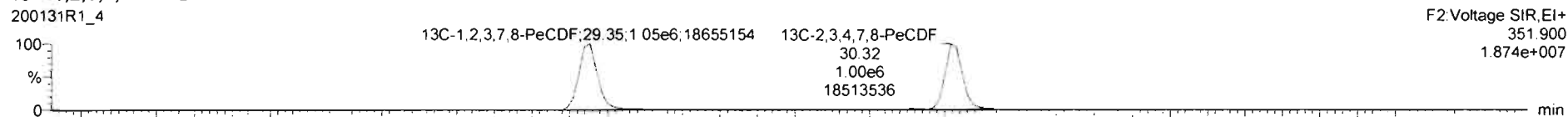


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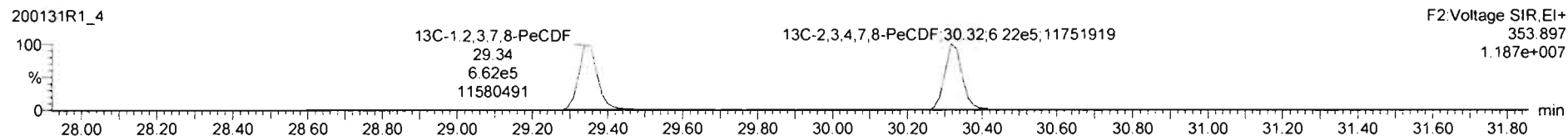


13C-1,2,3,7,8-PeCDF

200131R1_4

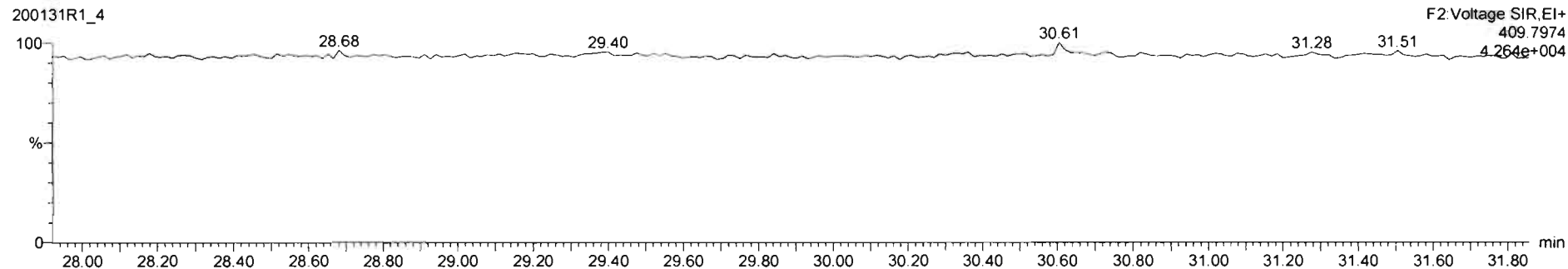


200131R1_4



DPE2

200131R1_4



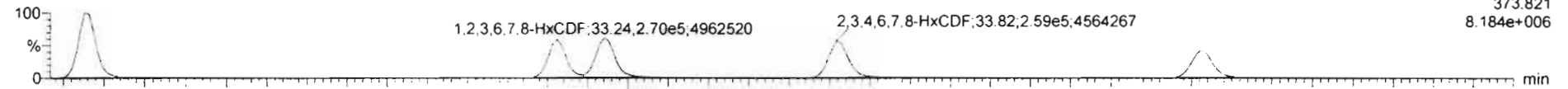
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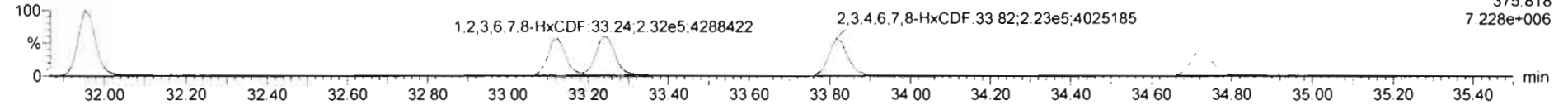
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1,2,3,4,7,8-HxCDF

200131R1_4

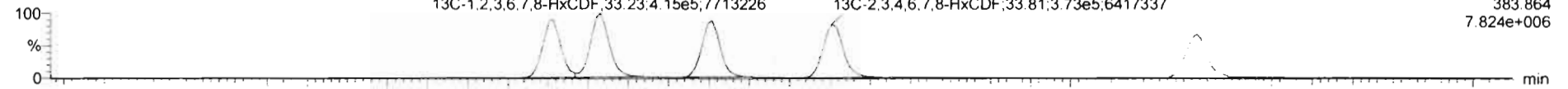


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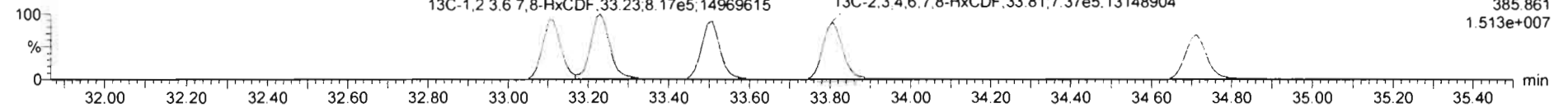


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200131R1_4

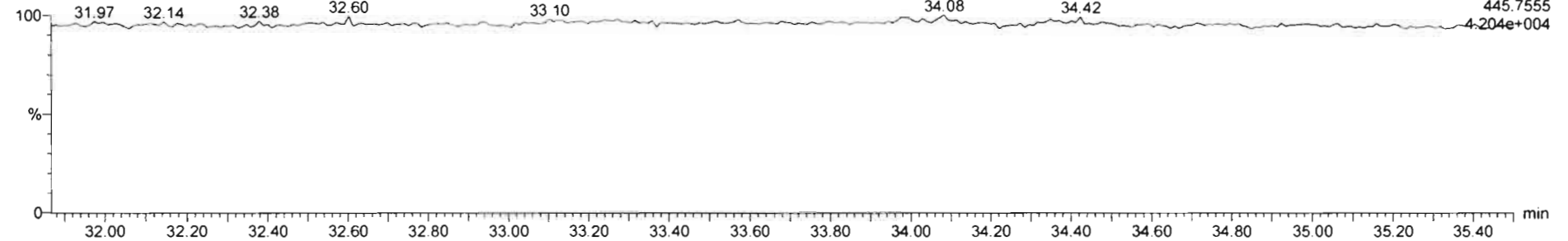


200131R1_4



DPE3

200131R1_4

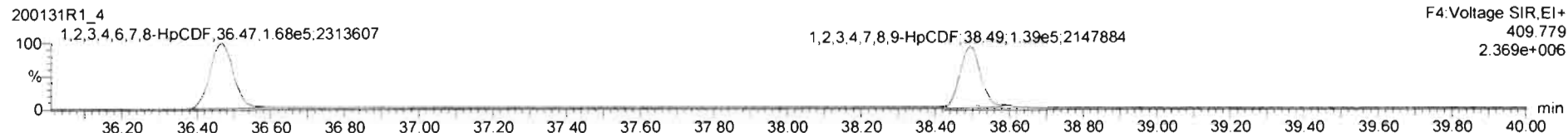
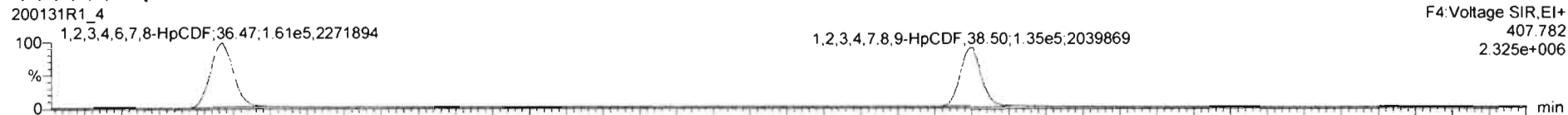


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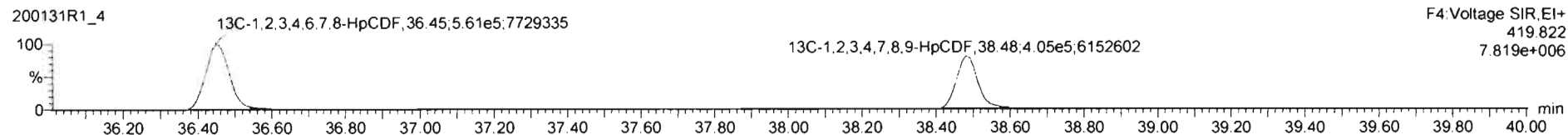
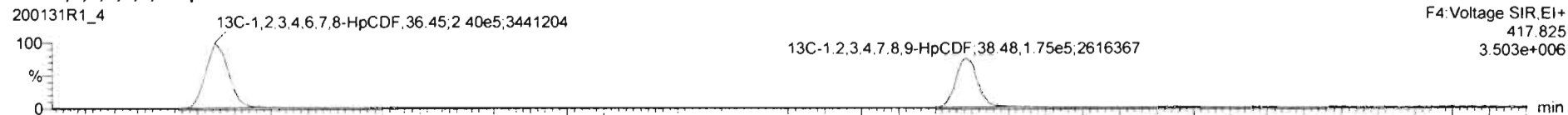
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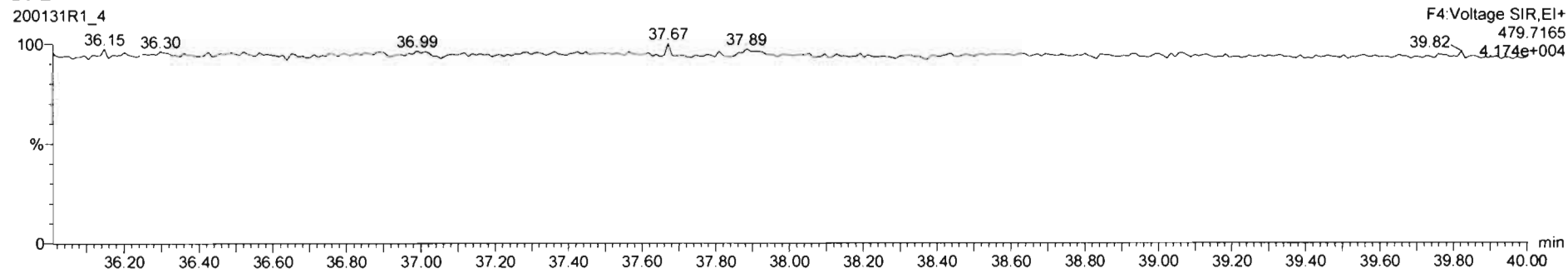
1,2,3,4,6,7,8-HpCDF



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



DPE4

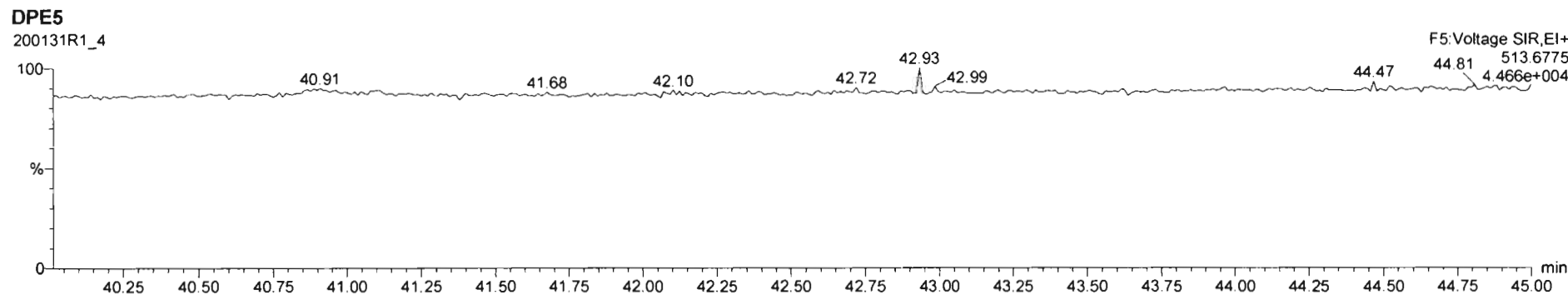
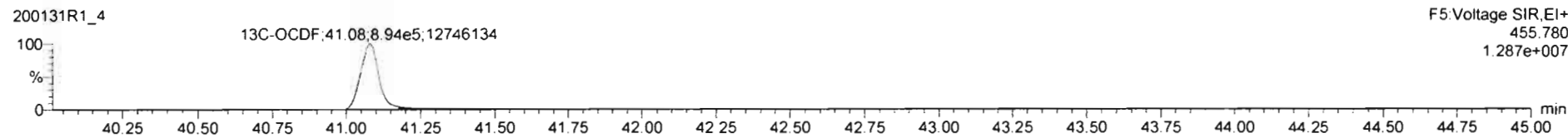
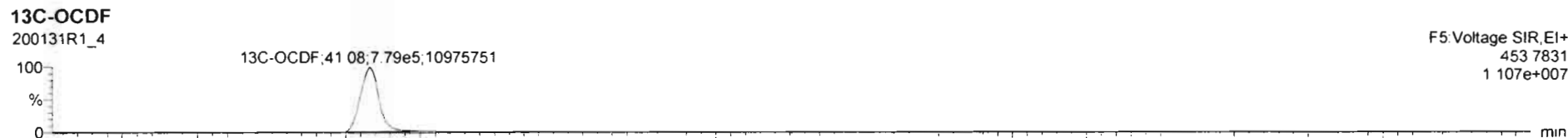
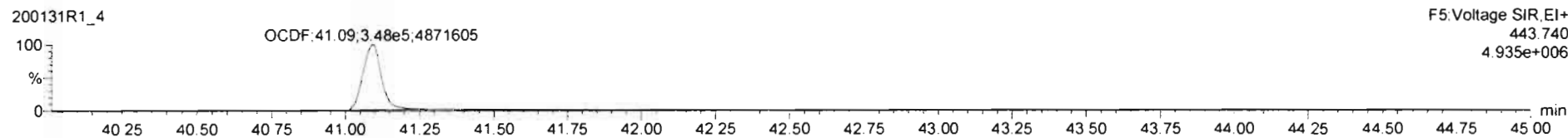
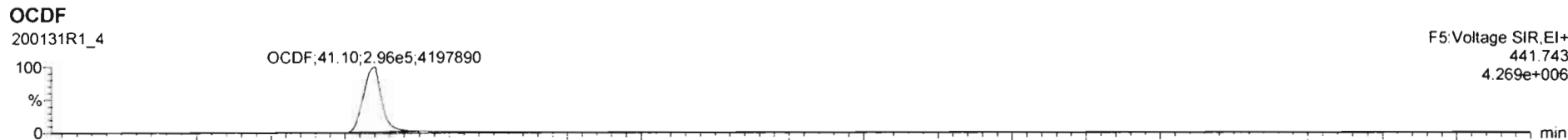


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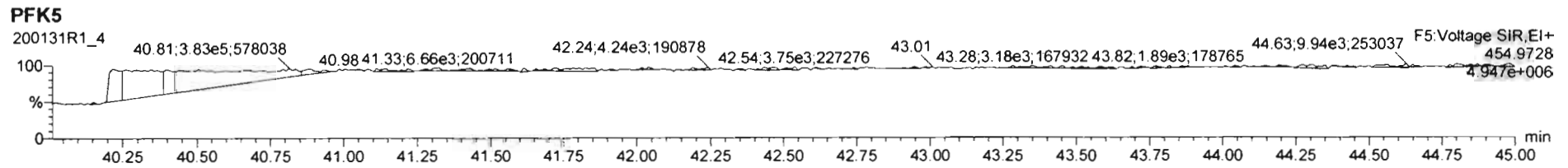
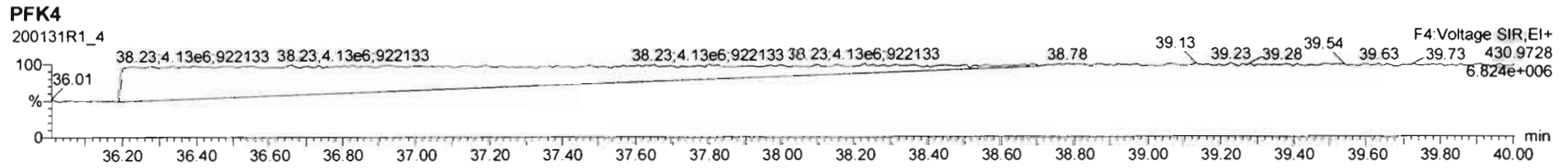
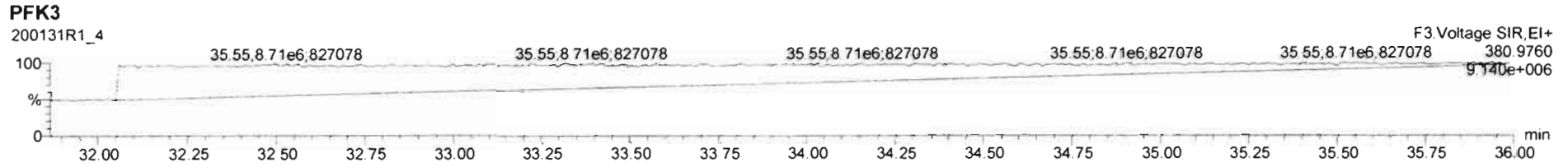
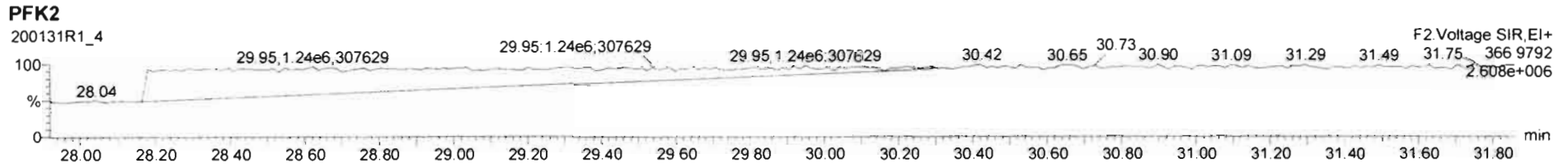
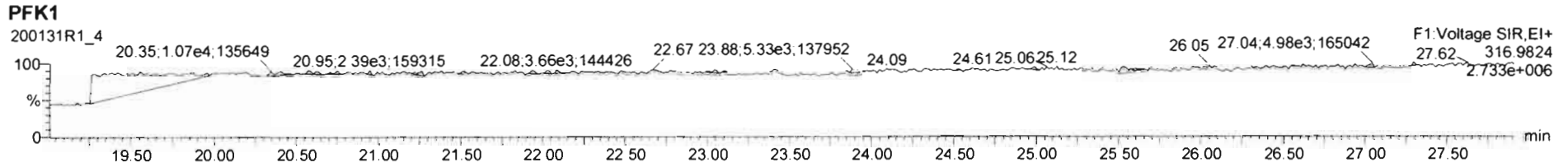


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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

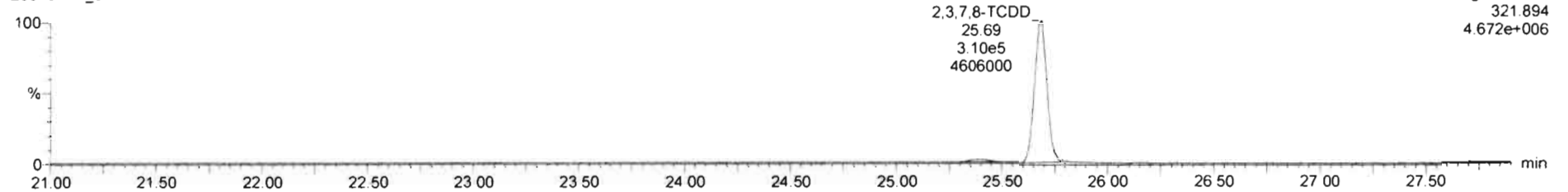
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2,3,7,8-TCDD

200131R1_5

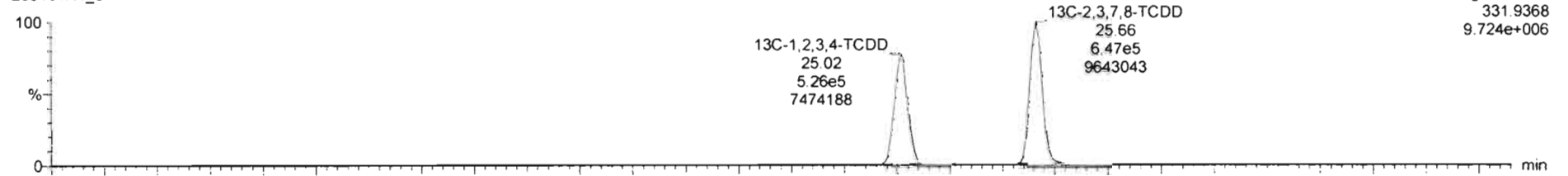


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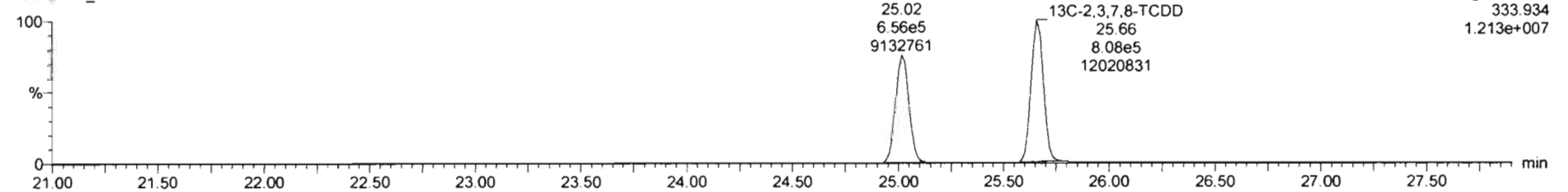


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200131R1_5



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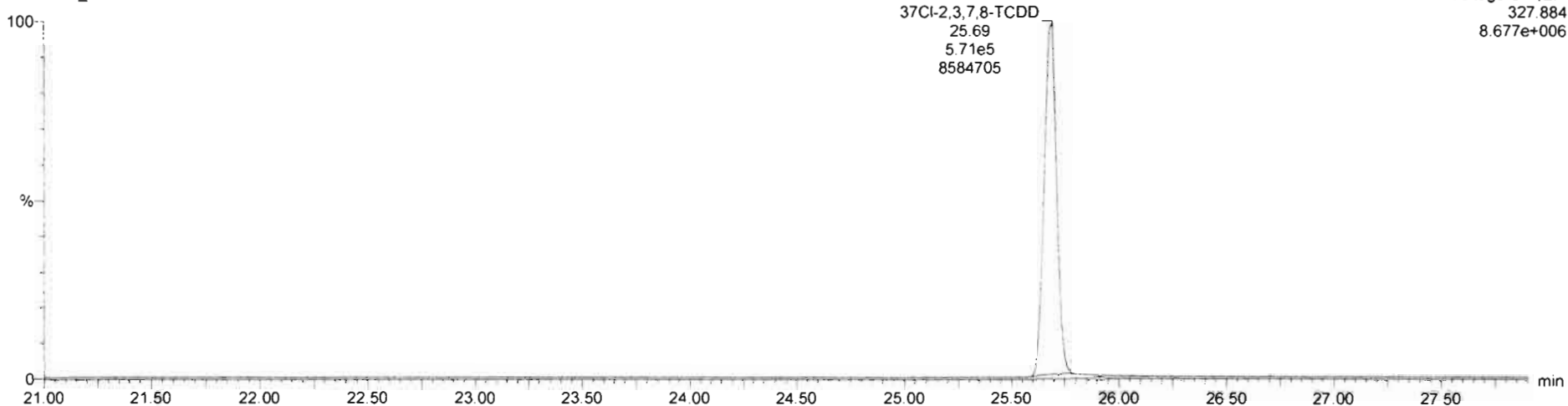
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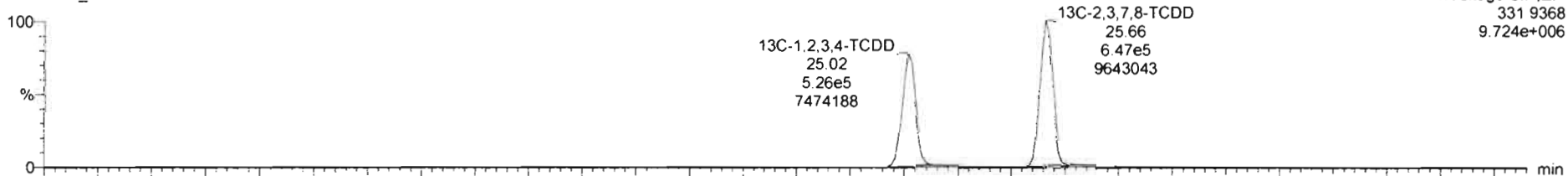
37Cl-2,3,7,8-TCDD

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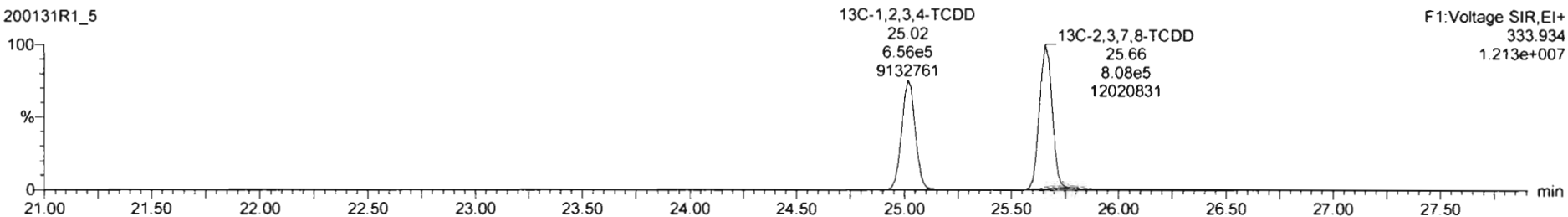


13C-1,2,3,4-TCDD

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200131R1_5



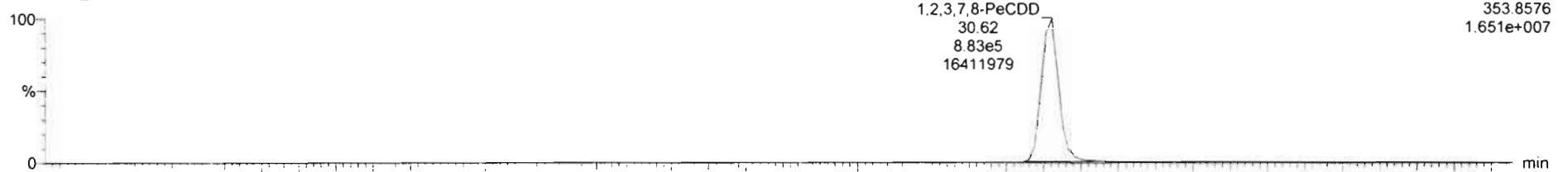
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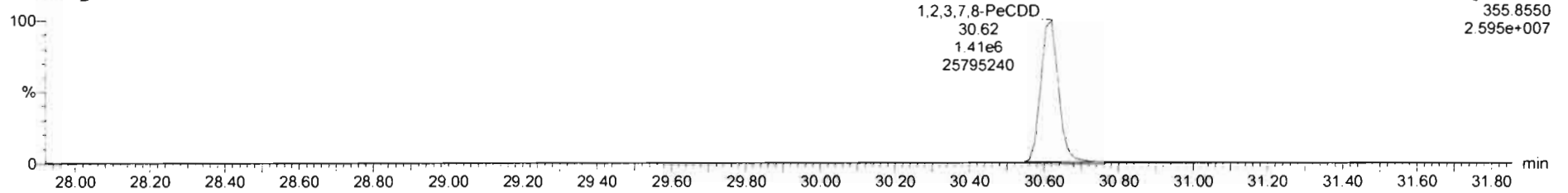
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1,2,3,7,8-PeCDD

200131R1_5

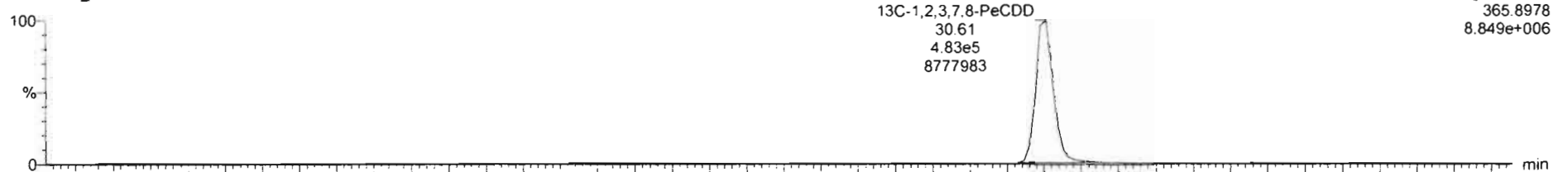


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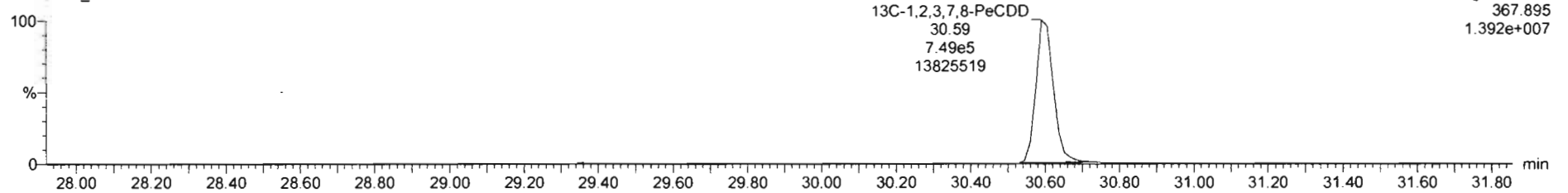


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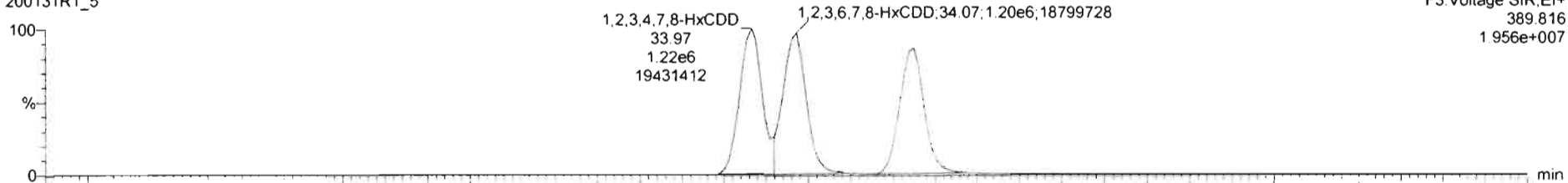
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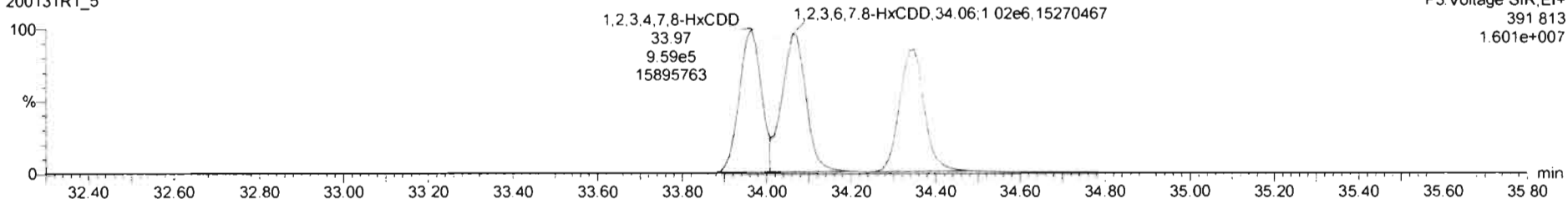
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1,2,3,4,7,8-HxCDD

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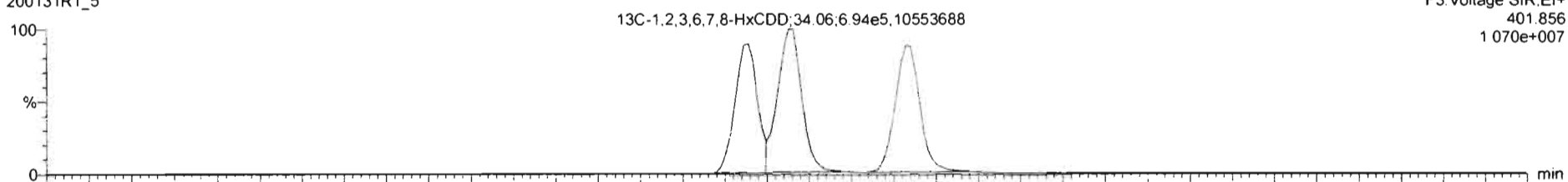


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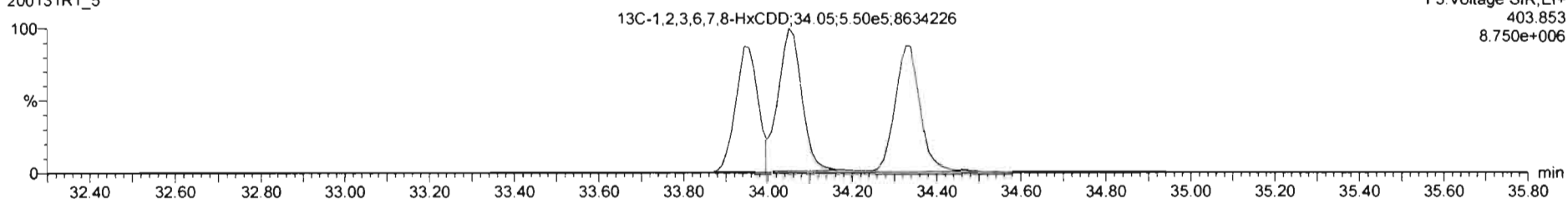


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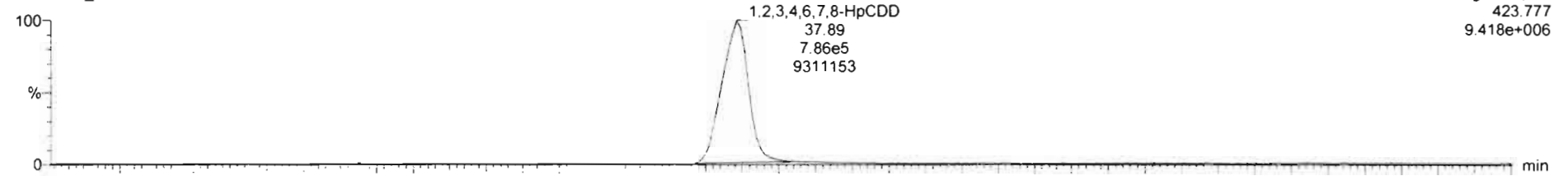
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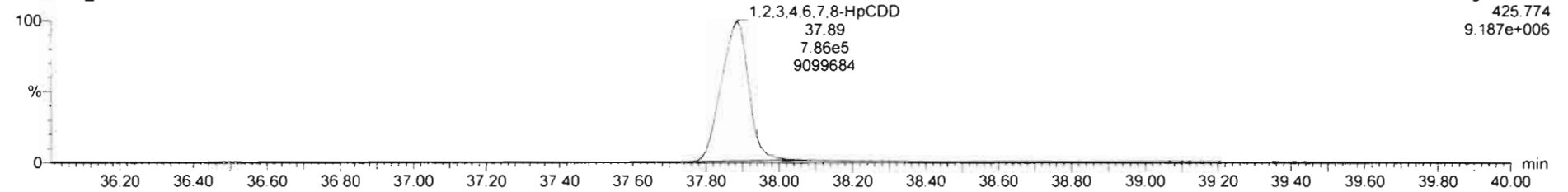
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1,2,3,4,6,7,8-HpCDD

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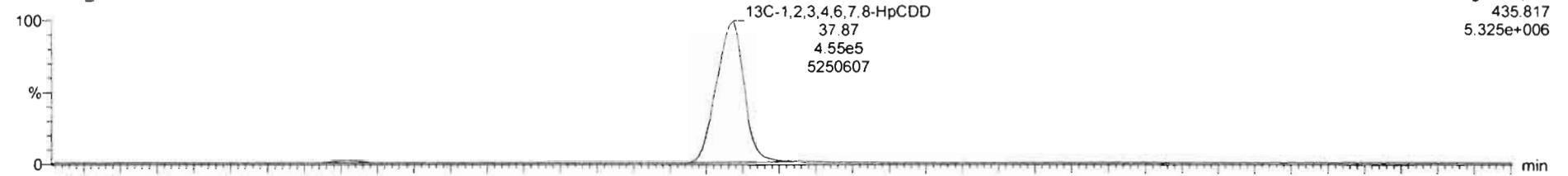


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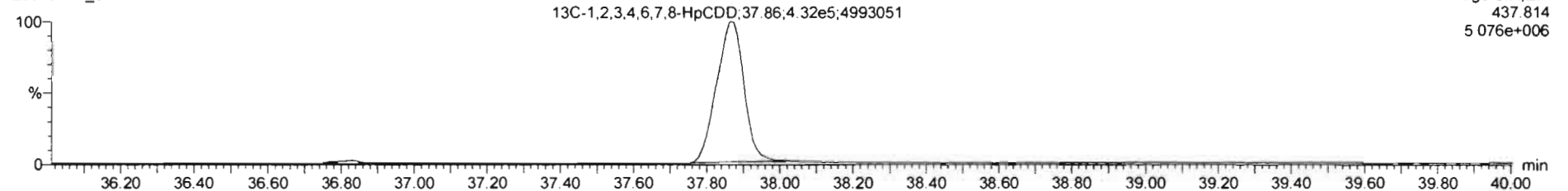


13C-1,2,3,4,6,7,8-HpCDD

200131R1_5



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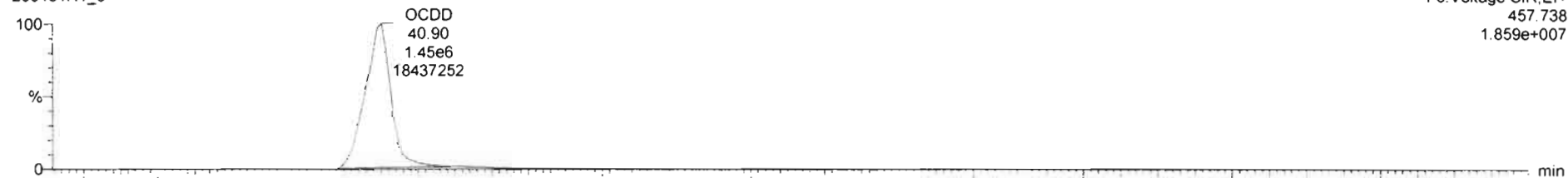
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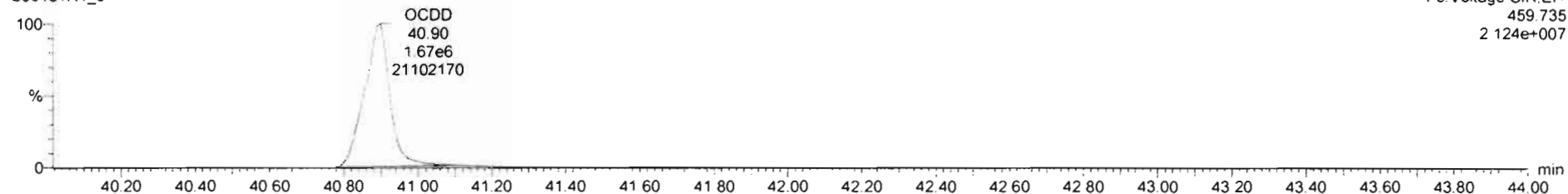
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OCDD

200131R1_5

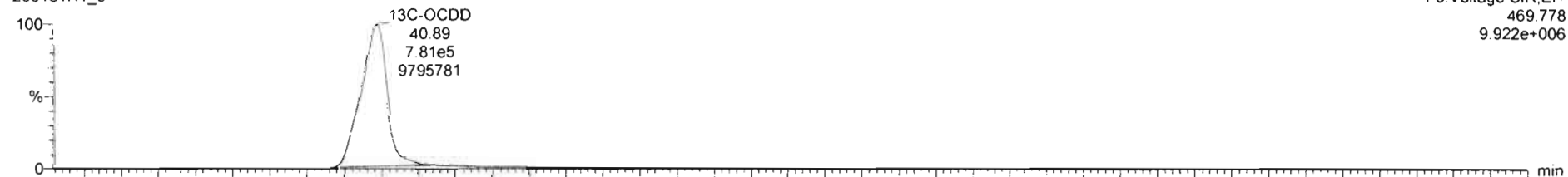


200131R1_5

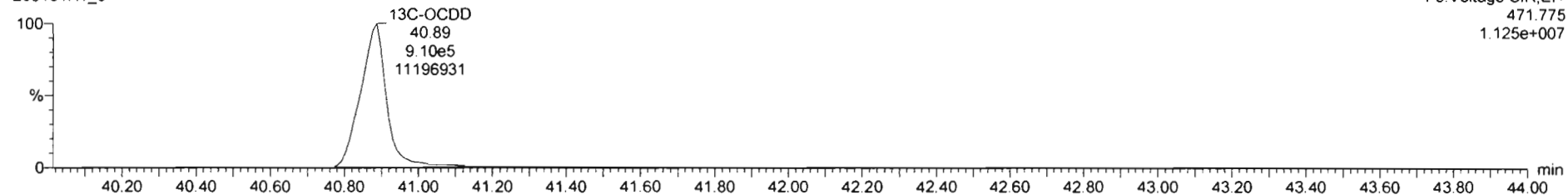


13C-OCDD

200131R1_5



200131R1_5



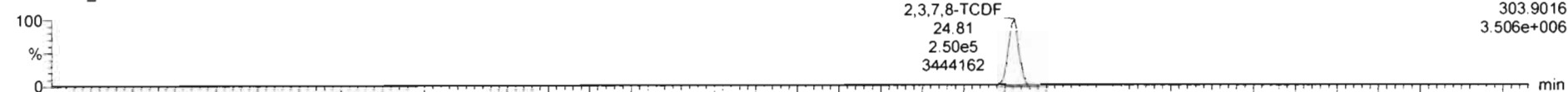
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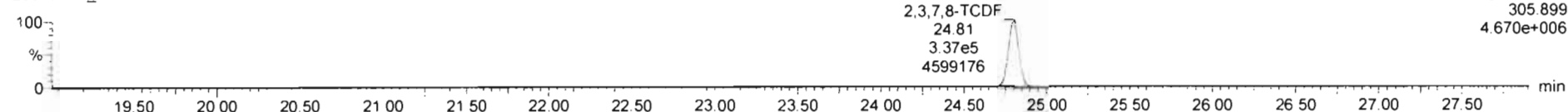
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2,3,7,8-TCDF

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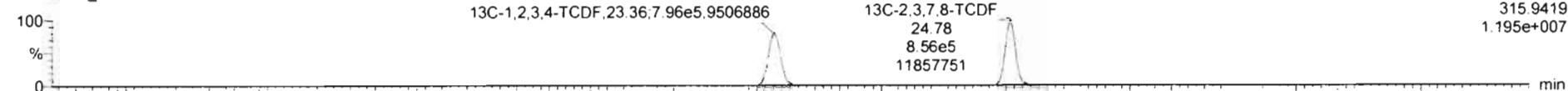


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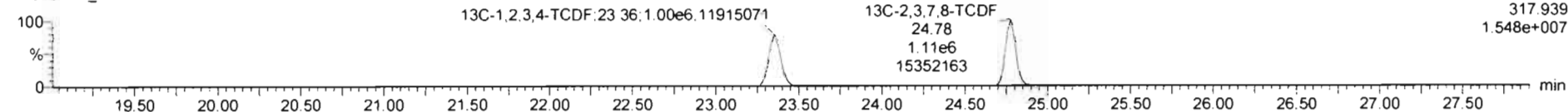


13C-2,3,7,8-TCDF

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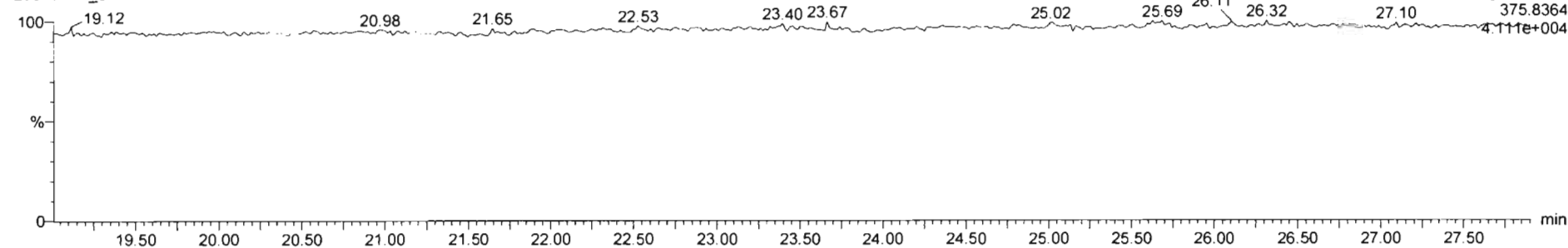


200131R1_5



DPE1

200131R1_5



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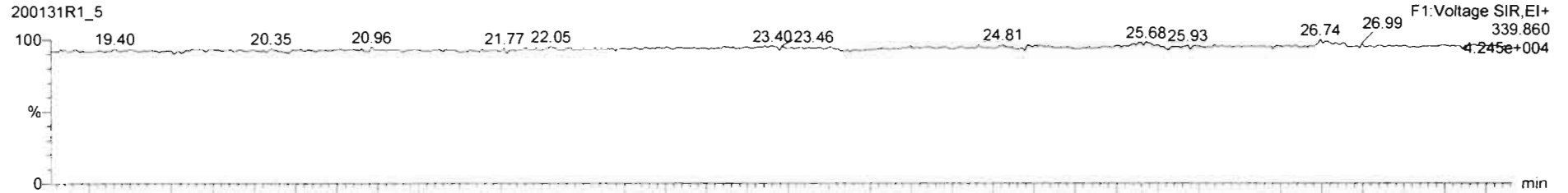
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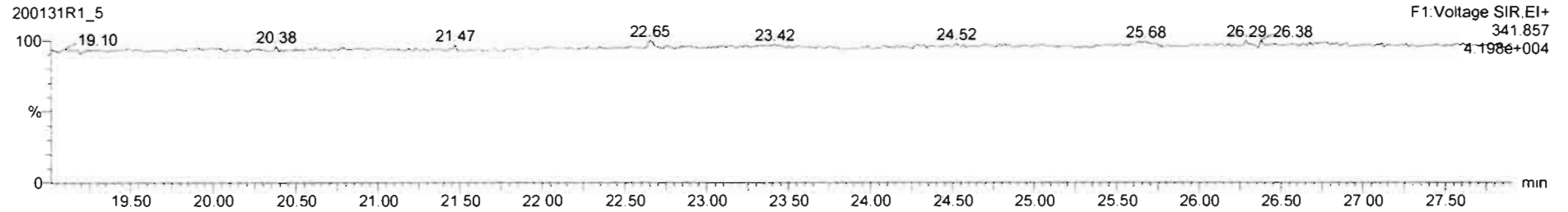
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200131R1_5

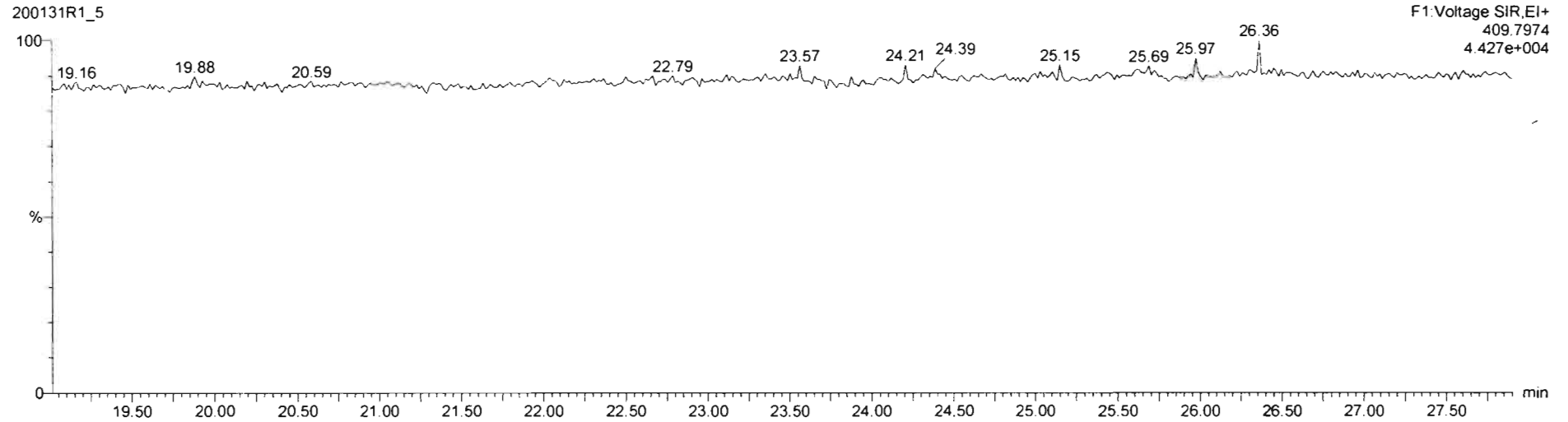


200131R1_5



DPE6

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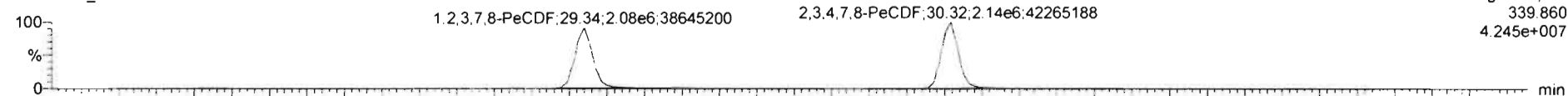
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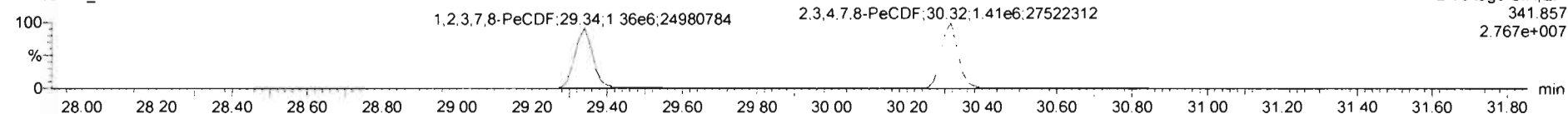
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1,2,3,7,8-PeCDF

200131R1_5

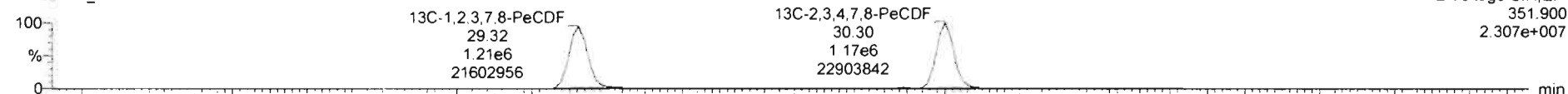


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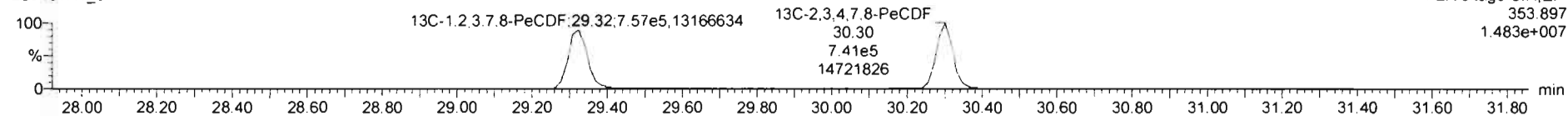


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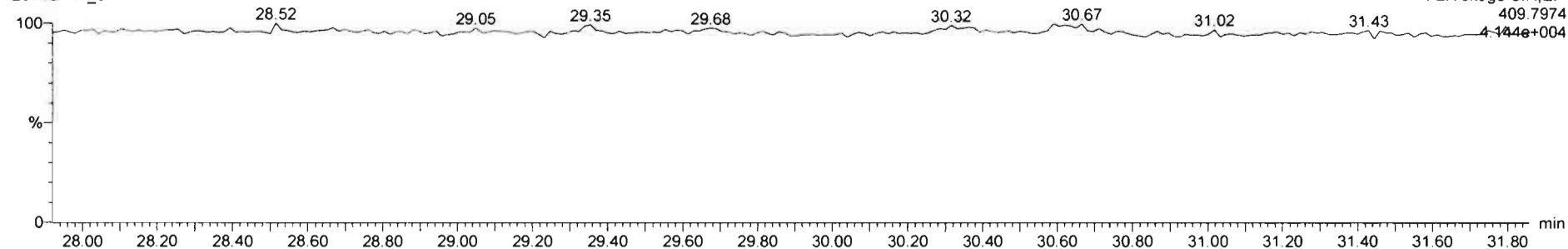


200131R1_5



DPE2

200131R1_5



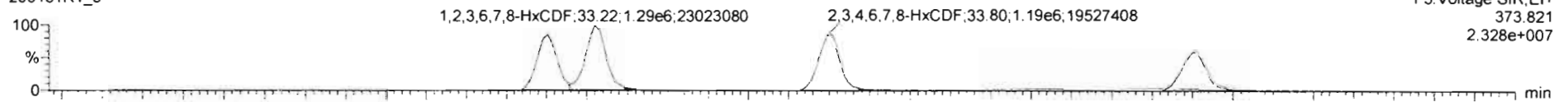
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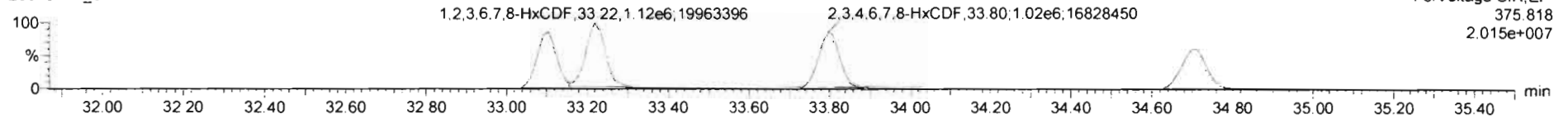
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1,2,3,4,7,8-HxCDF

200131R1_5

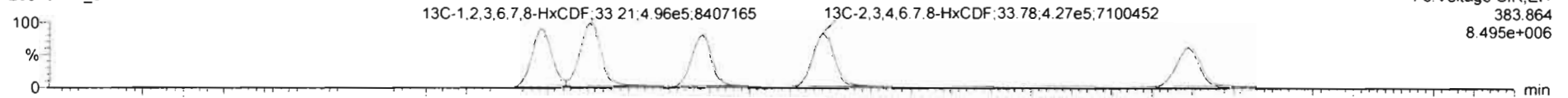


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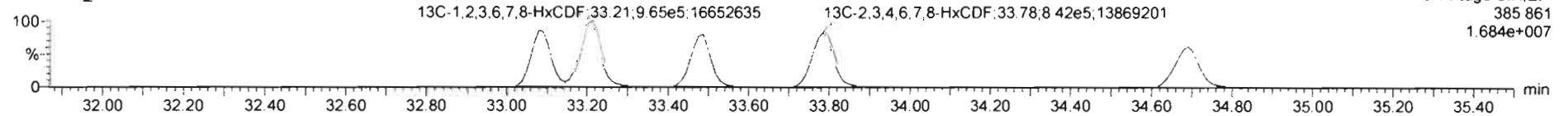


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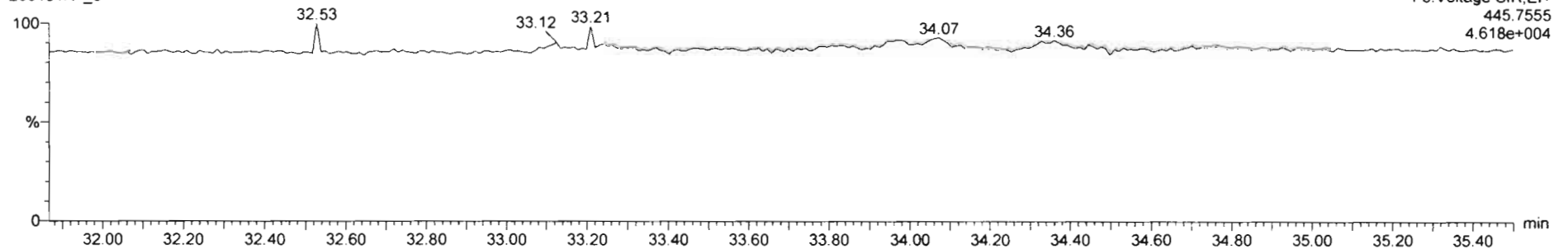


200131R1_5



DPE3

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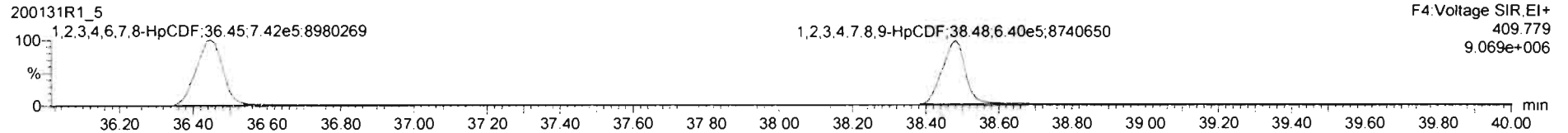
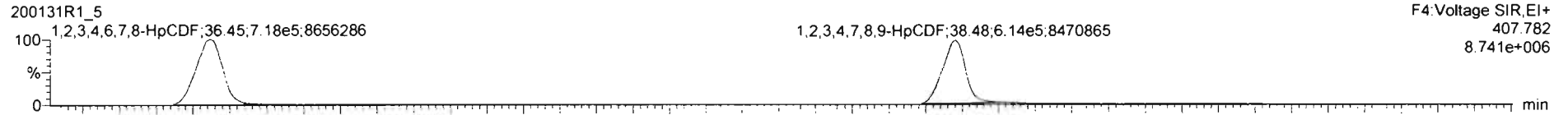


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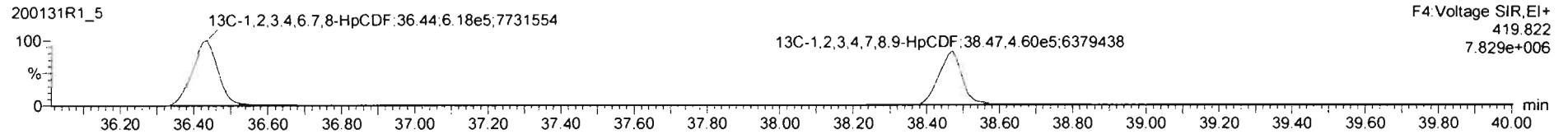
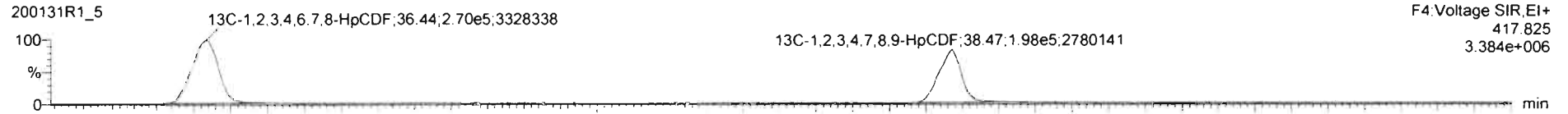
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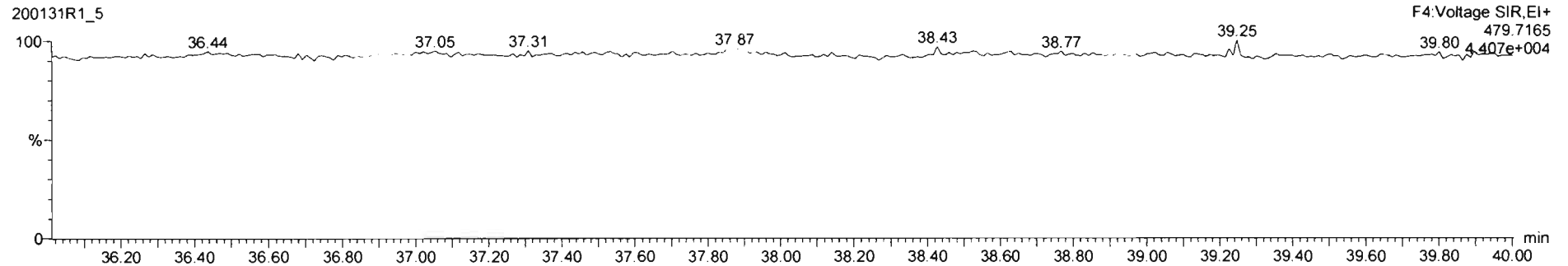
1,2,3,4,6,7,8-HpCDF



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



DPE4

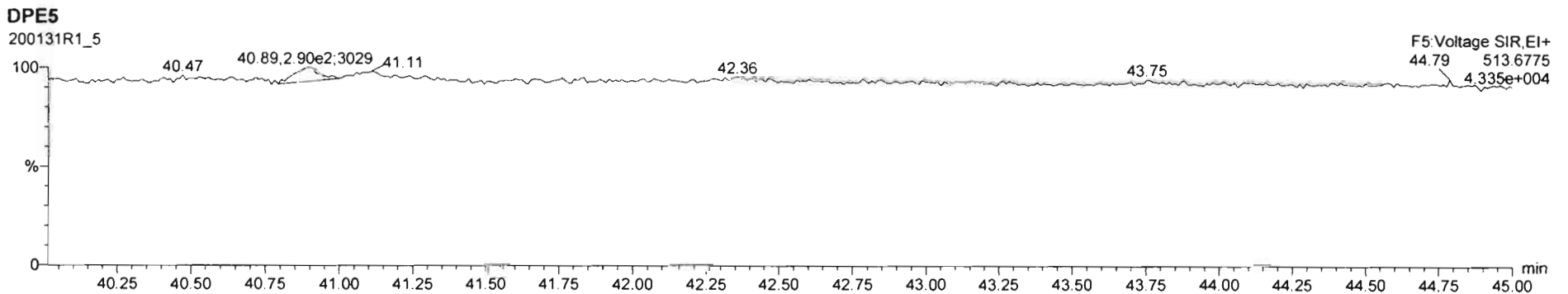
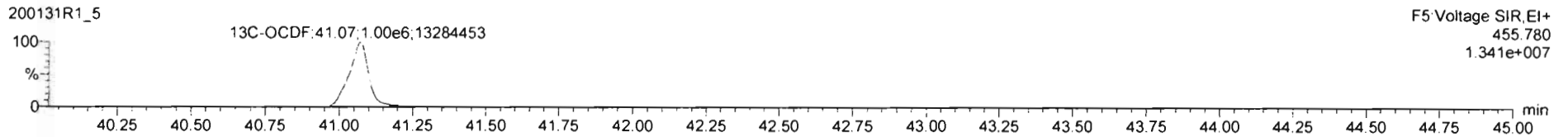
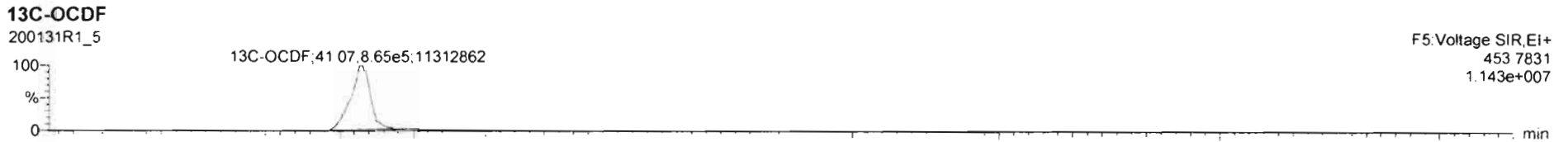
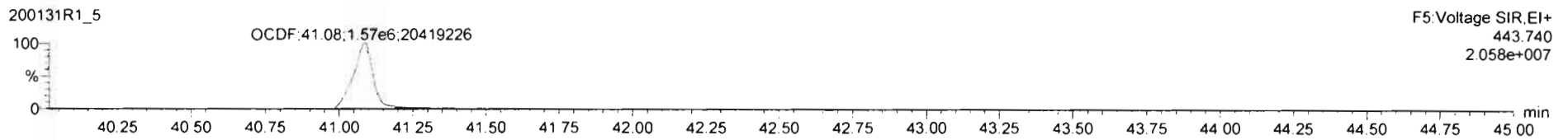
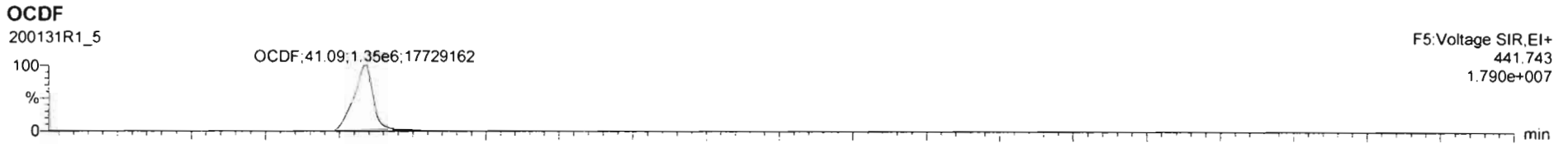


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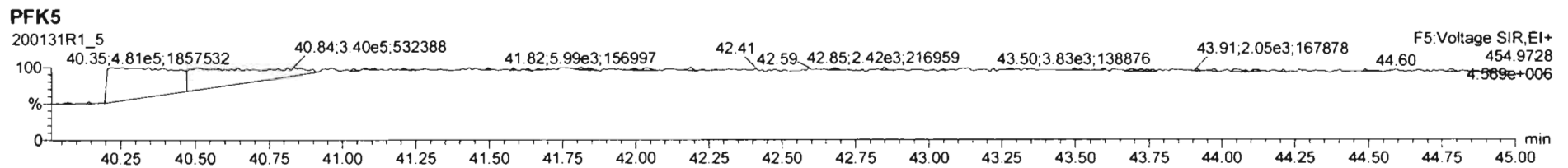
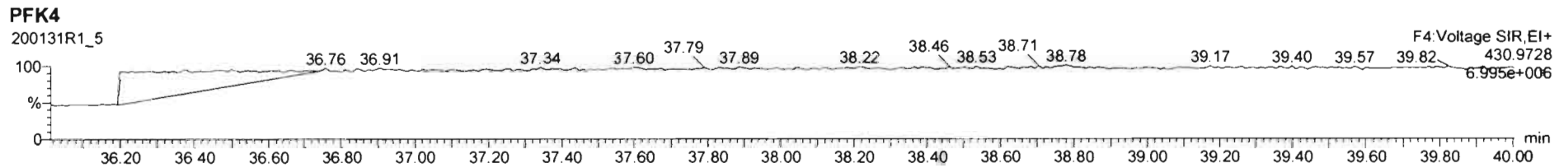
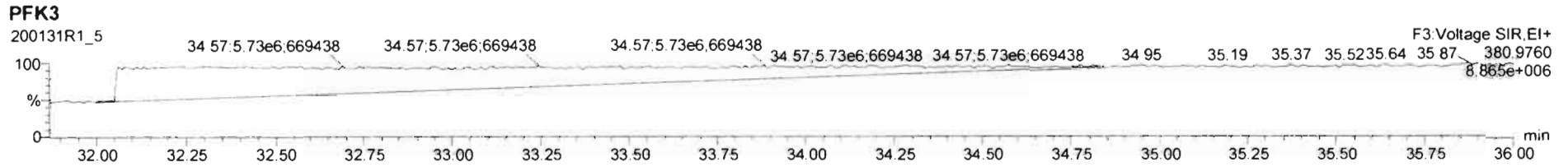
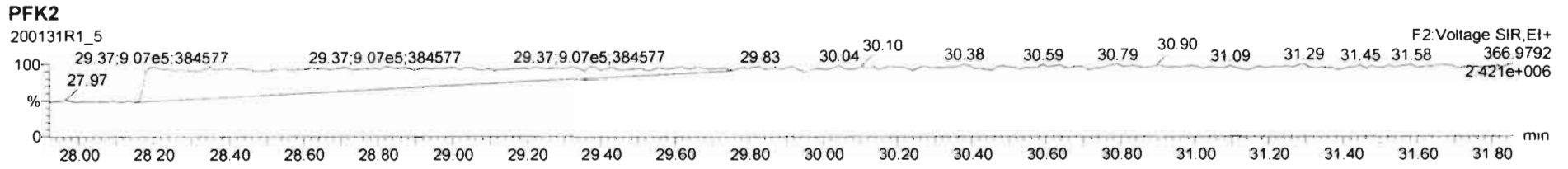
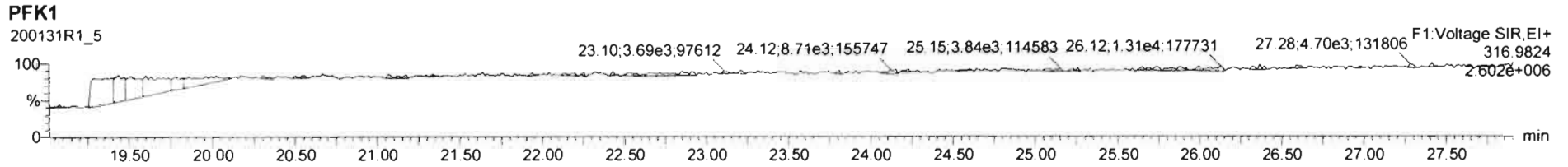
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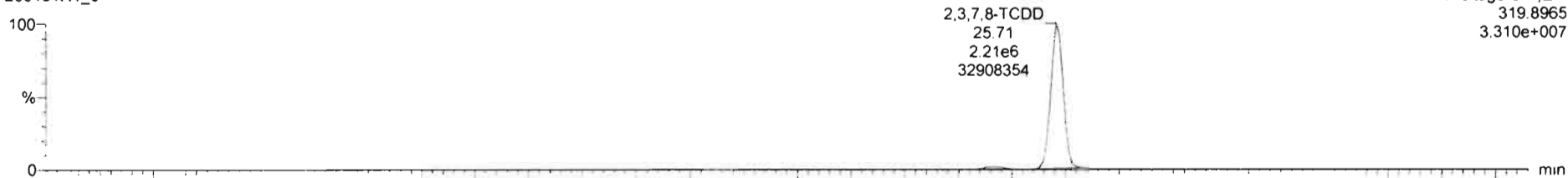
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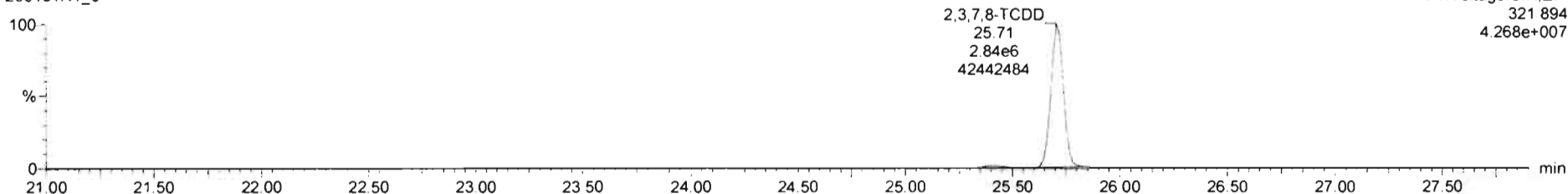
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2,3,7,8-TCDD

200131R1_6

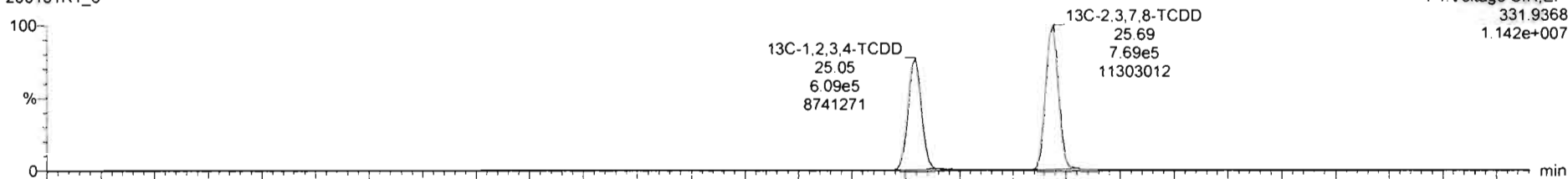


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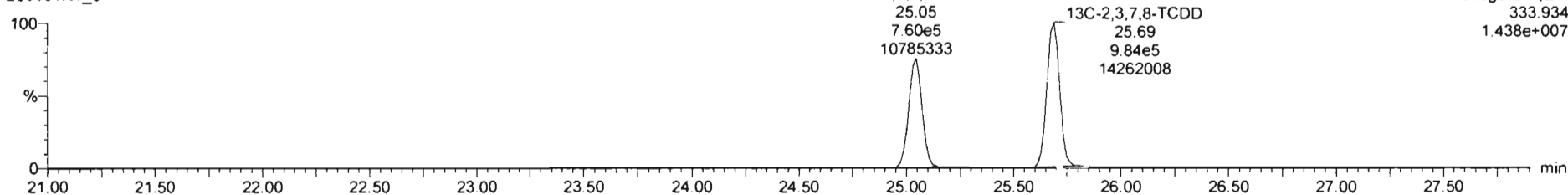


13C-2,3,7,8-TCDD

200131R1_6



200131R1_6



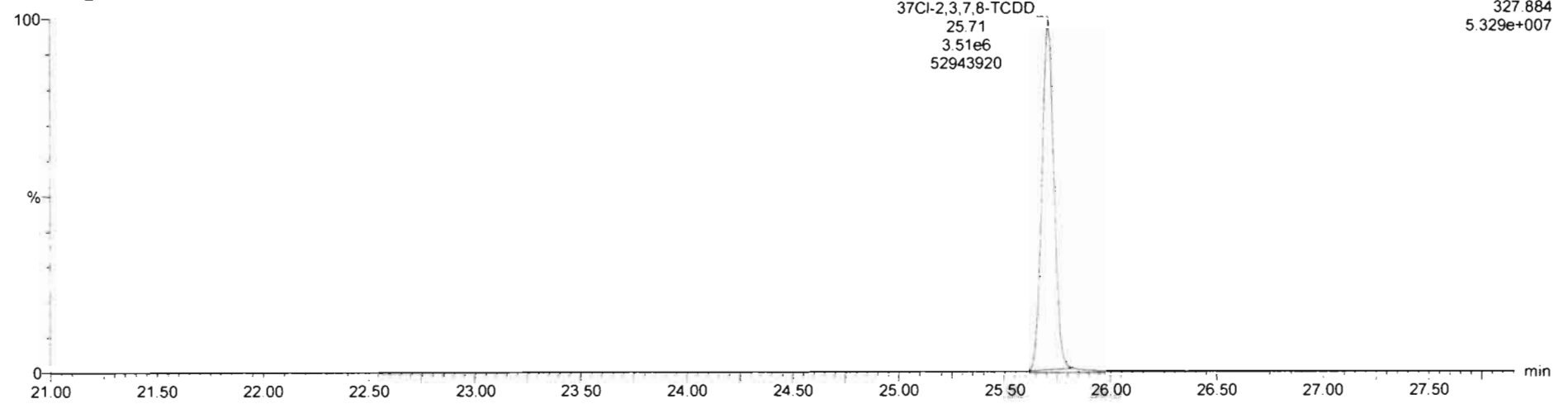
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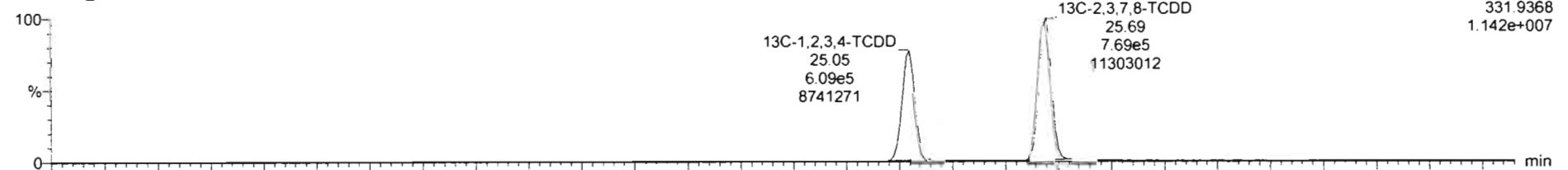
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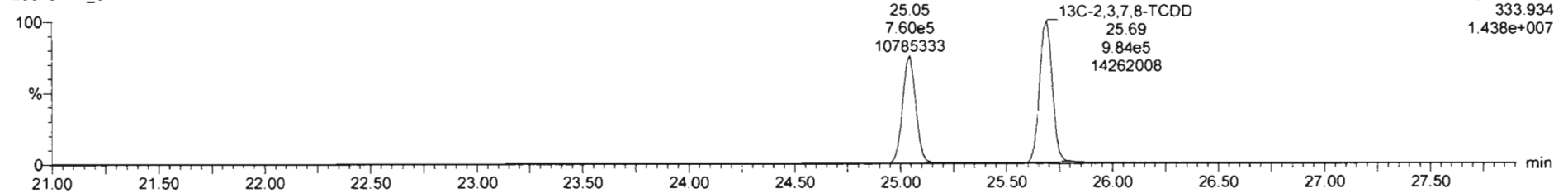


13C-1,2,3,4-TCDD

200131R1_6



200131R1_6



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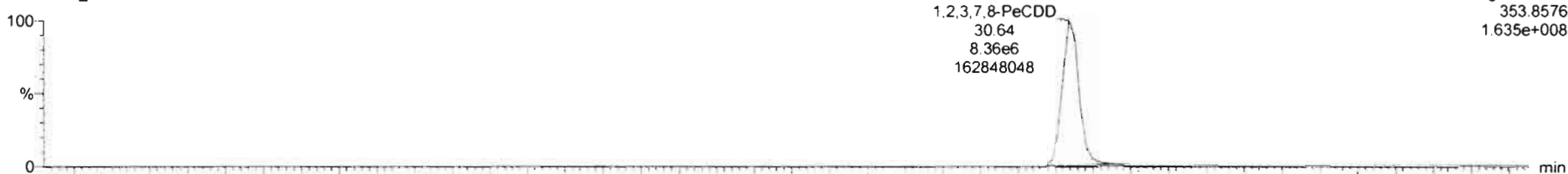
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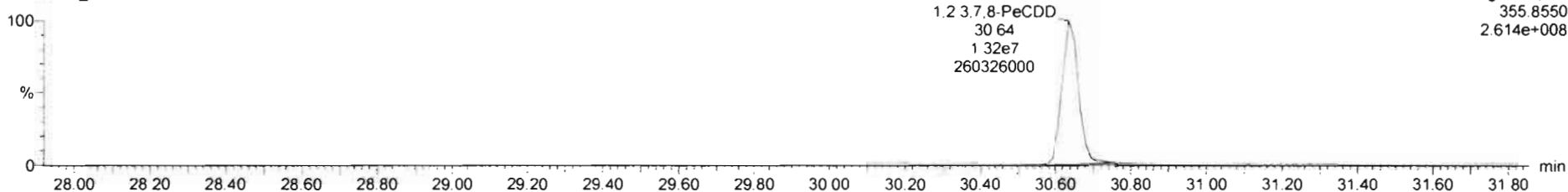
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1,2,3,7,8-PeCDD

200131R1_6

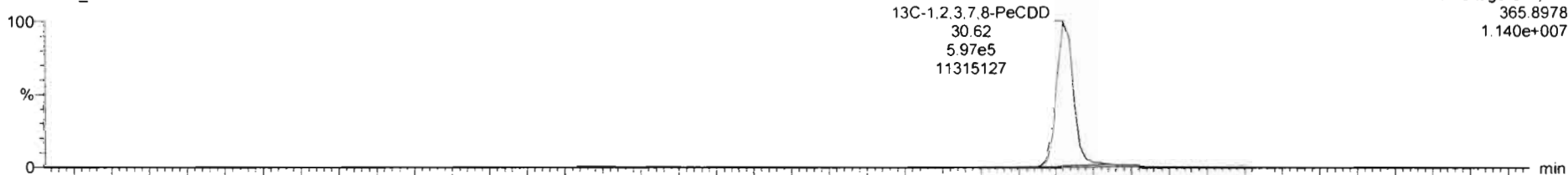


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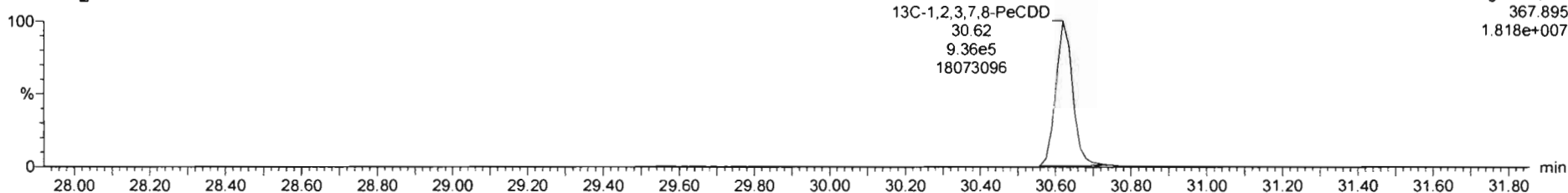


13C-1,2,3,7,8-PeCDD

200131R1_6



200131R1_6



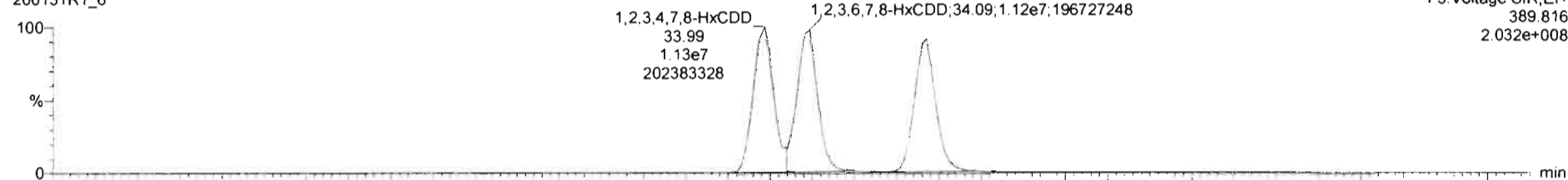
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

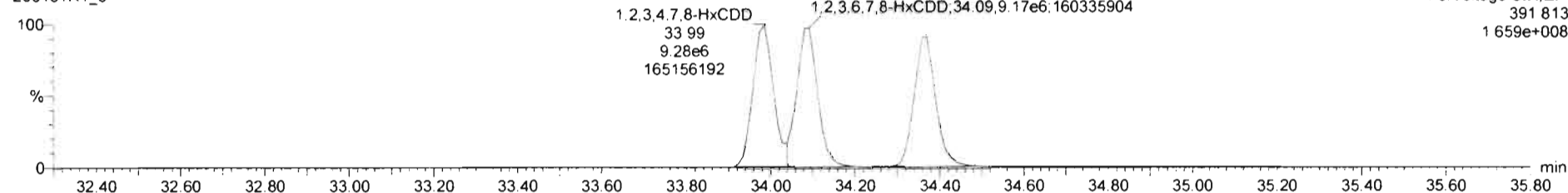
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1,2,3,4,7,8-HxCDD

200131R1_6

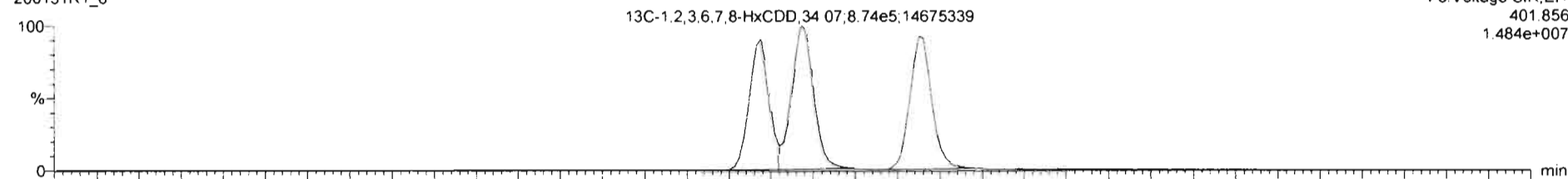


200131R1_6

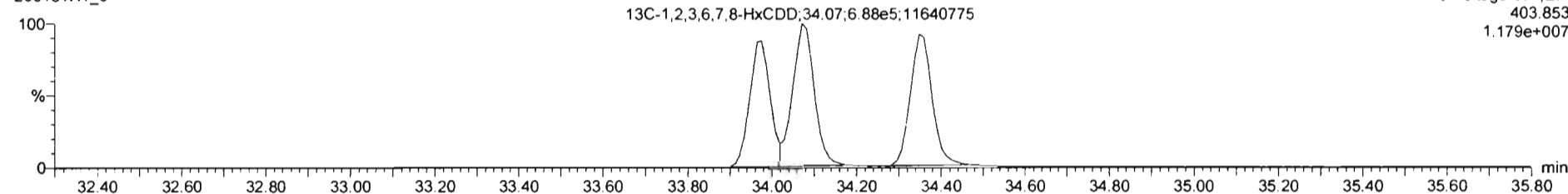


13C-1,2,3,4,7,8-HxCDD

200131R1_6



200131R1_6



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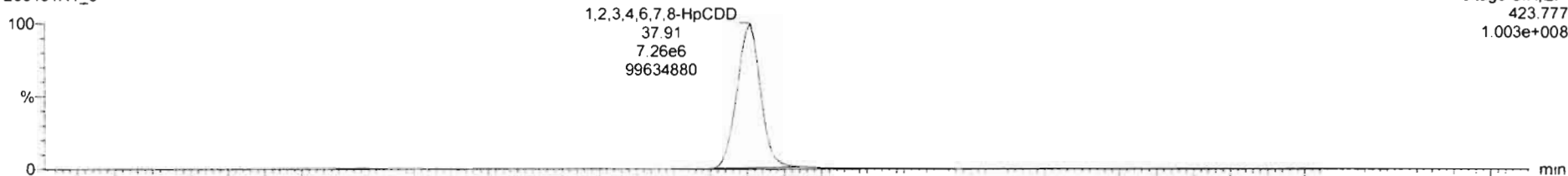
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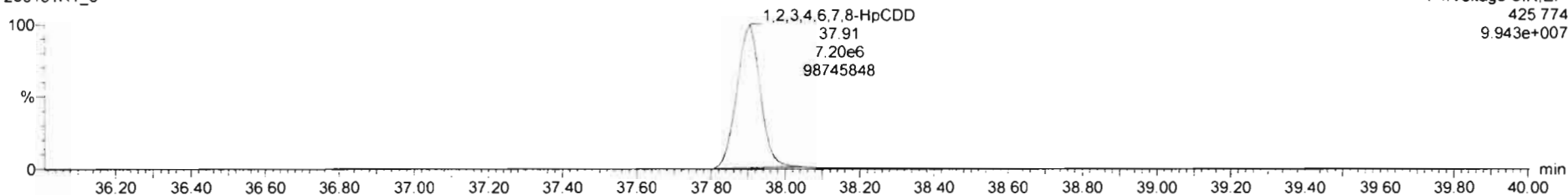
1,2,3,4,6,7,8-HpCDD

200131R1_6



F4: Voltage SIR, EI+
423.777
1.003e+008

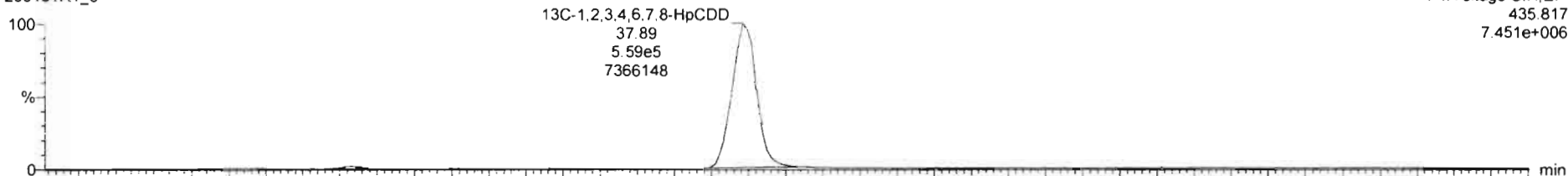
200131R1_6



F4: Voltage SIR, EI+
425.774
9.943e+007

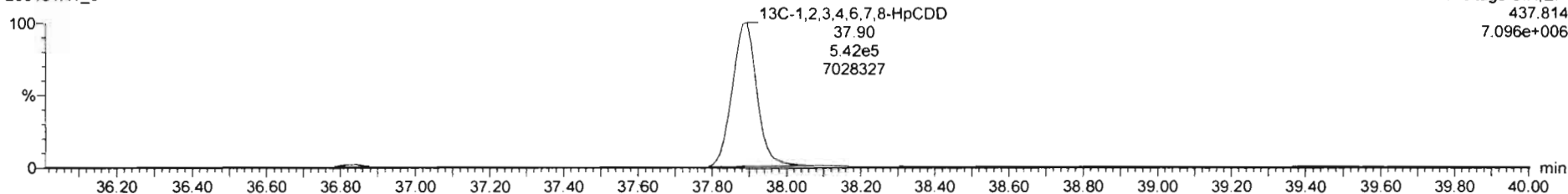
13C-1,2,3,4,6,7,8-HpCDD

200131R1_6



F4: Voltage SIR, EI+
435.817
7.451e+006

200131R1_6

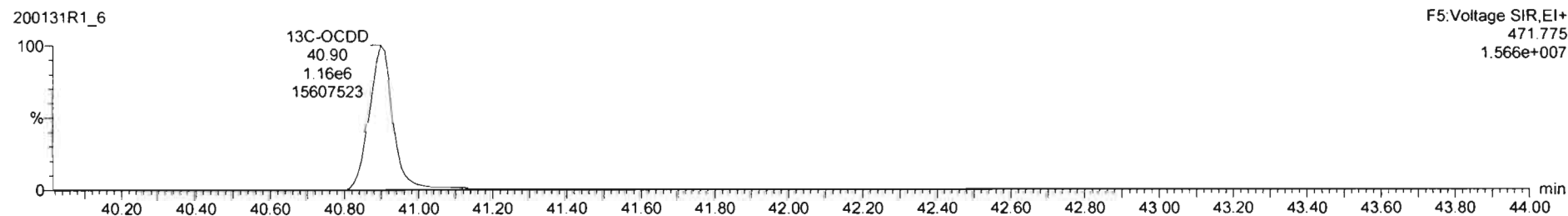
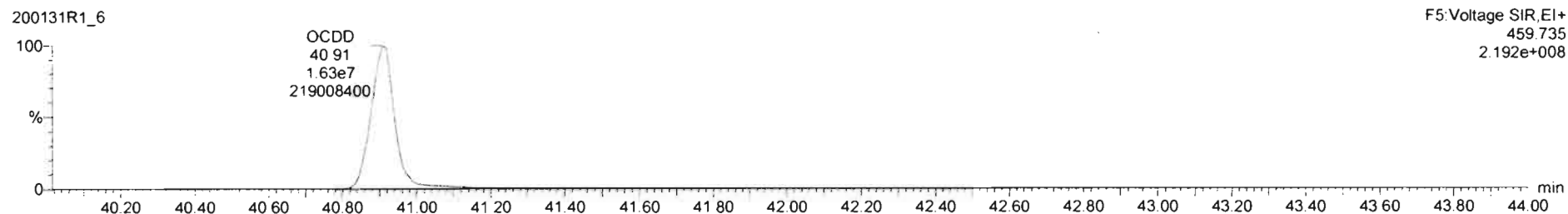
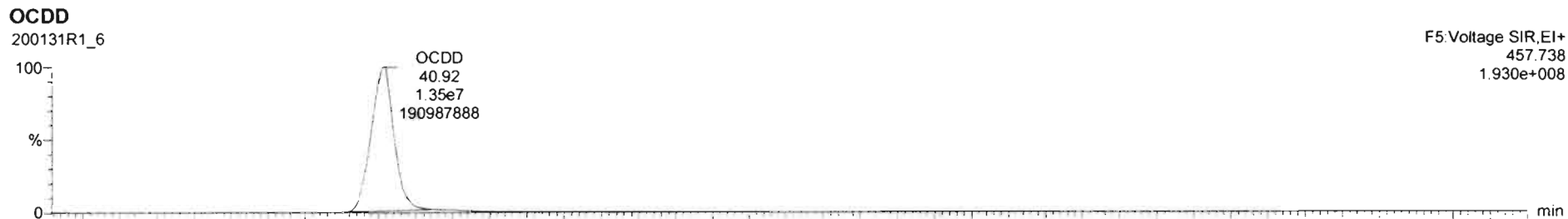


F4: Voltage SIR, EI+
437.814
7.096e+006

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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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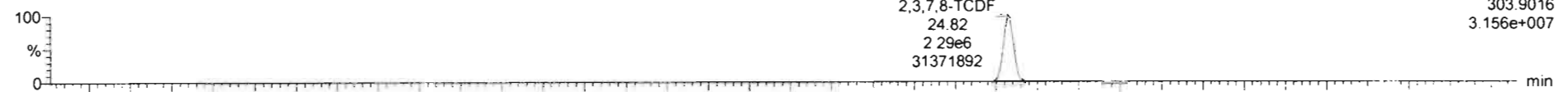
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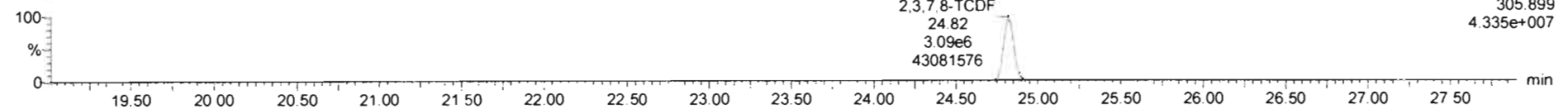
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2,3,7,8-TCDF

200131R1_6

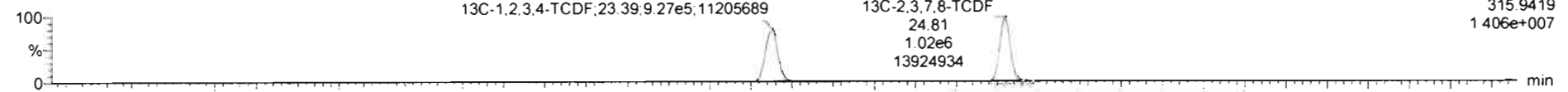


200131R1_6

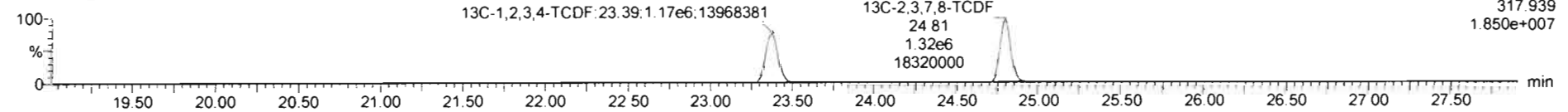


13C-2,3,7,8-TCDF

200131R1_6

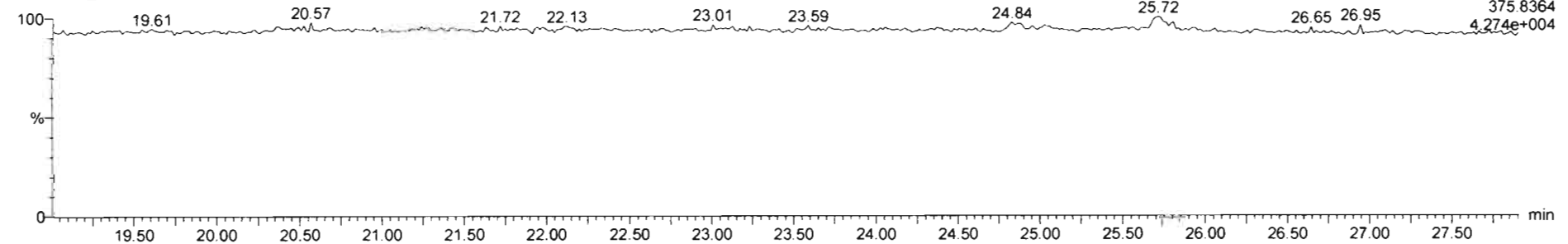


200131R1_6



DPE1

200131R1_6



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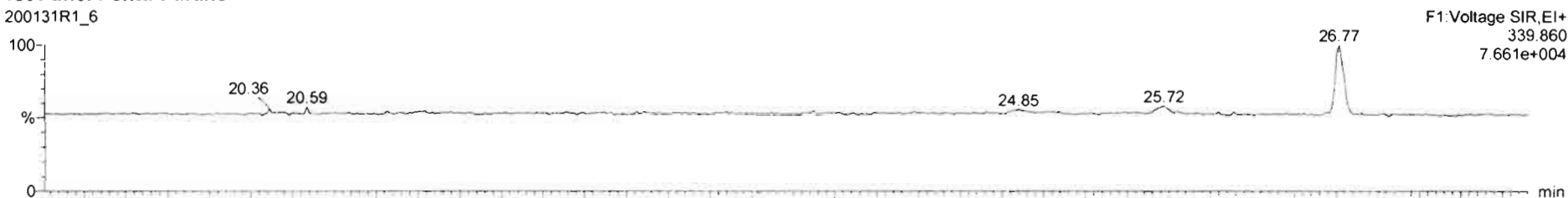
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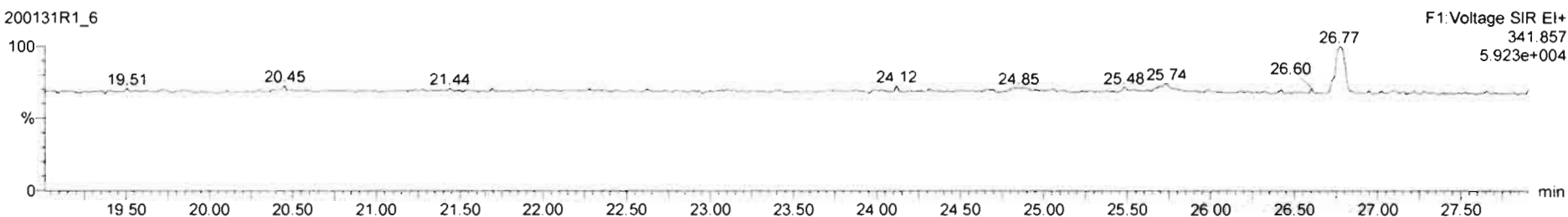
Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

1st Func. Penta-Furans

200131R1_6

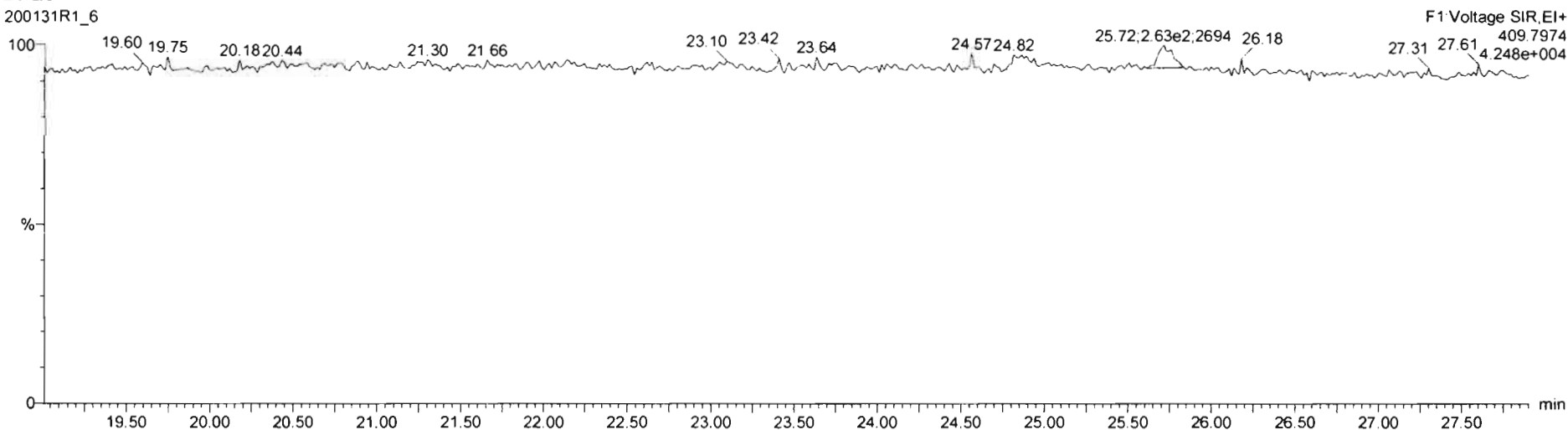


200131R1_6



DPE6

200131R1_6



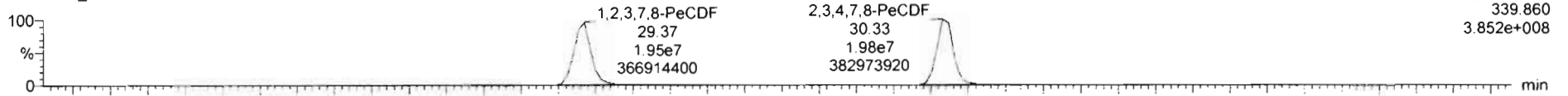
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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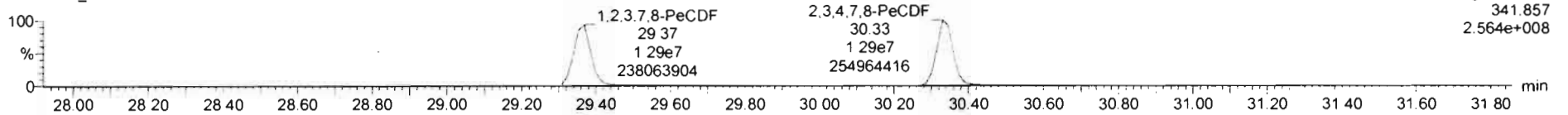
1,2,3,7,8-PeCDF

200131R1_6



F2: Voltage SIR, EI+
339.860
3.852e+008

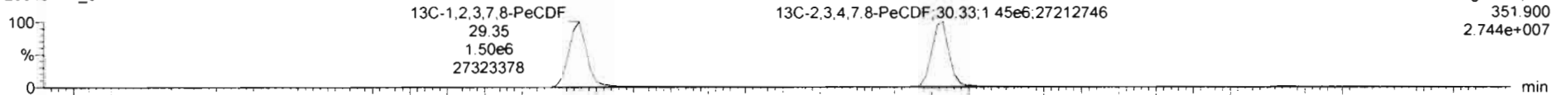
200131R1_6



F2: Voltage SIR, EI+
341.857
2.564e+008

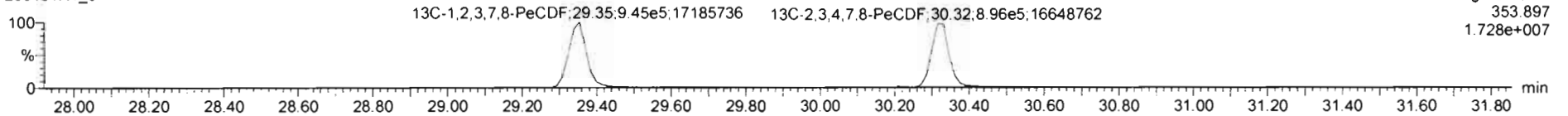
13C-1,2,3,7,8-PeCDF

200131R1_6



F2: Voltage SIR, EI+
351.900
2.744e+007

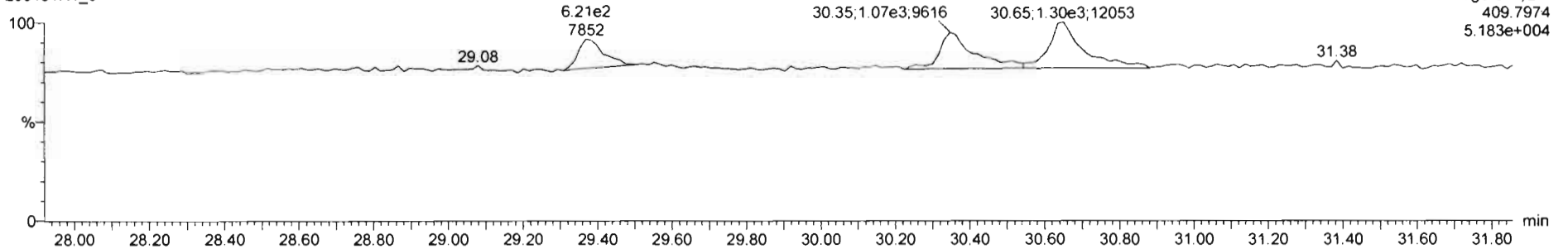
200131R1_6



F2: Voltage SIR, EI+
353.897
1.728e+007

DPE2

200131R1_6



F2: Voltage SIR, EI+
409.7974
5.183e+004

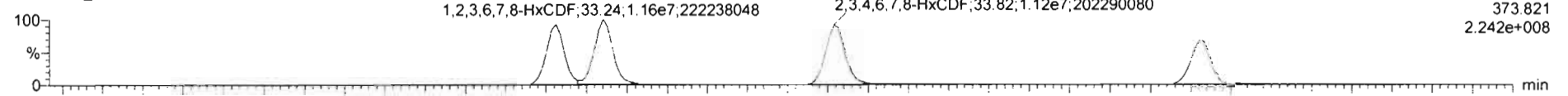
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

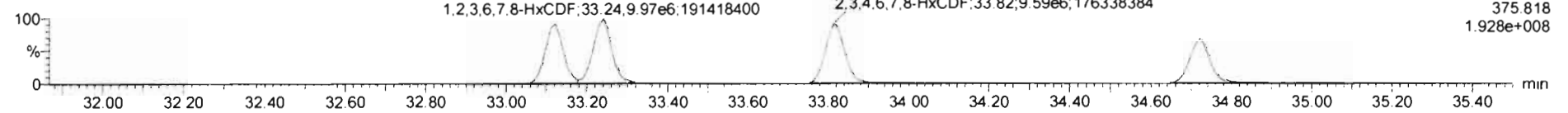
1,2,3,4,7,8-HxCDF

200131R1_6



F3: Voltage SIR, EI+
373 821
2.242e+008

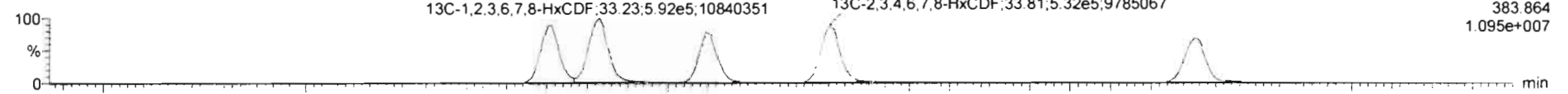
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F3: Voltage SIR, EI+
375 818
1.928e+008

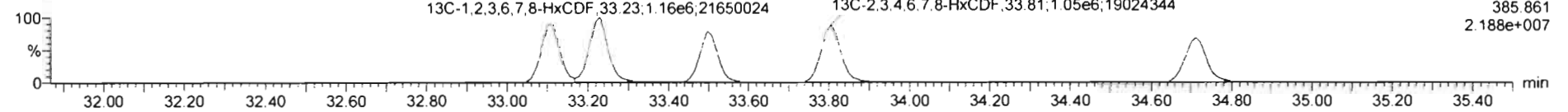
13C-1,2,3,4,7,8-HxCDF

200131R1_6



F3: Voltage SIR, EI+
383 864
1.095e+007

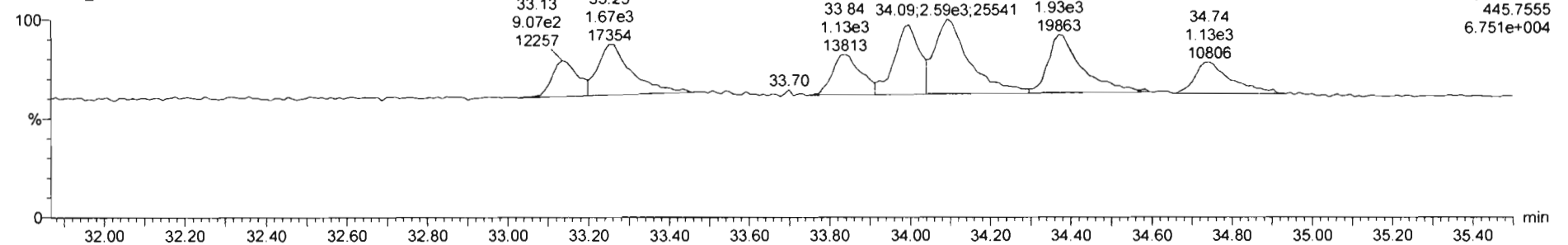
200131R1_6



F3: Voltage SIR, EI+
385 861
2.188e+007

DPE3

200131R1_6



F3: Voltage SIR, EI+
445 7555
6.751e+004

Dataset: Untitled

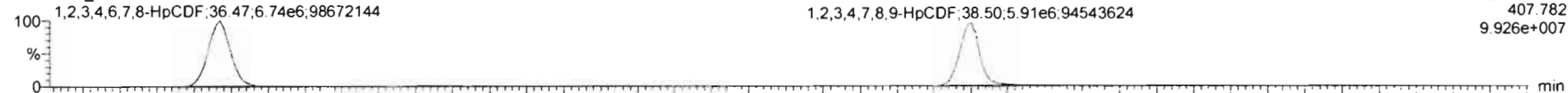
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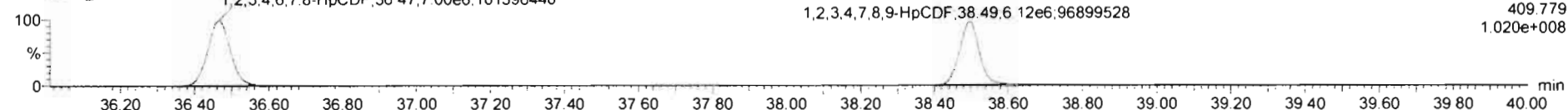
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1,2,3,4,6,7,8-HpCDF

200131R1_6

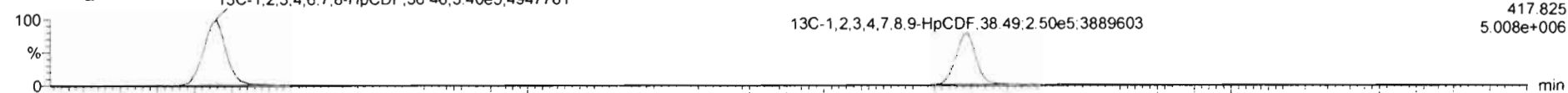


200131R1_6

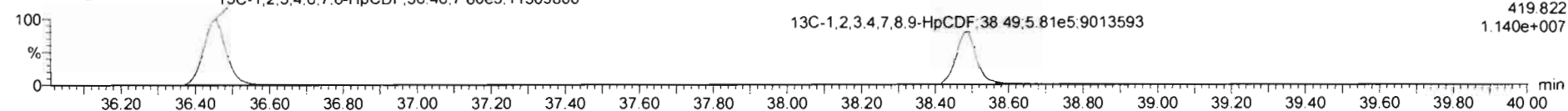


13C-1,2,3,4,6,7,8-HpCDF

200131R1_6

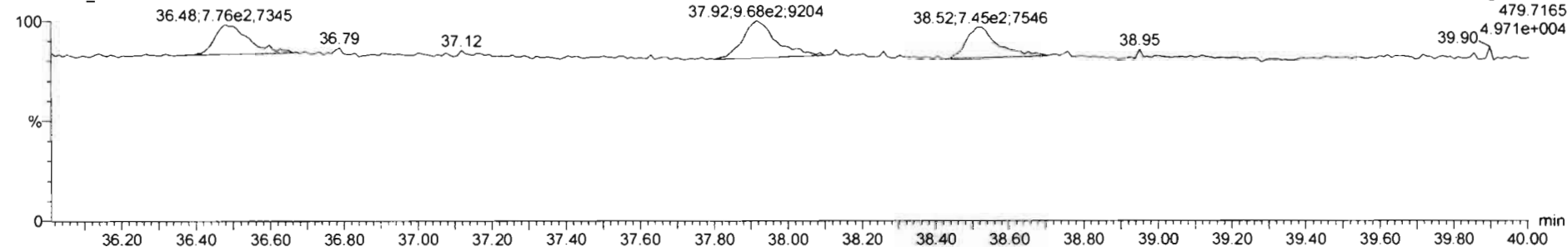


200131R1_6



DPE4

200131R1_6

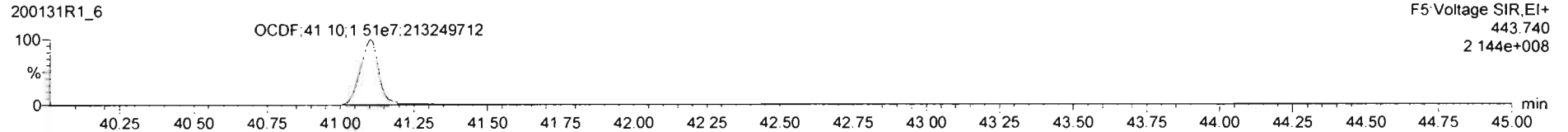
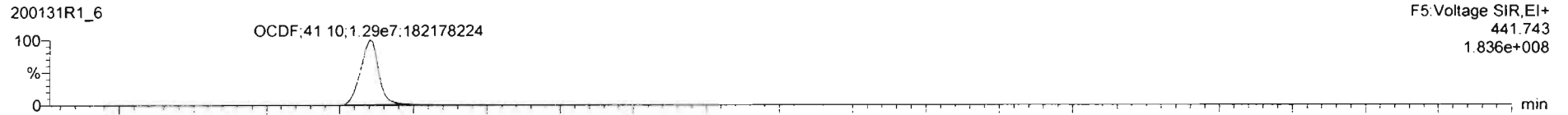


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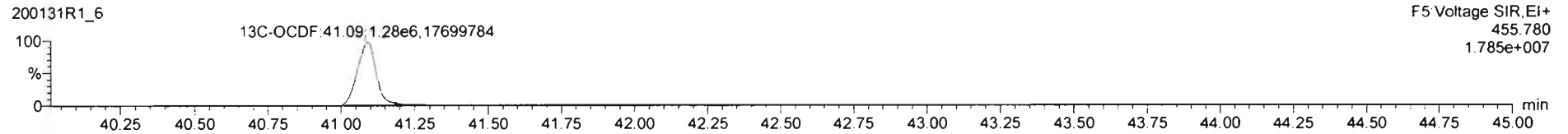
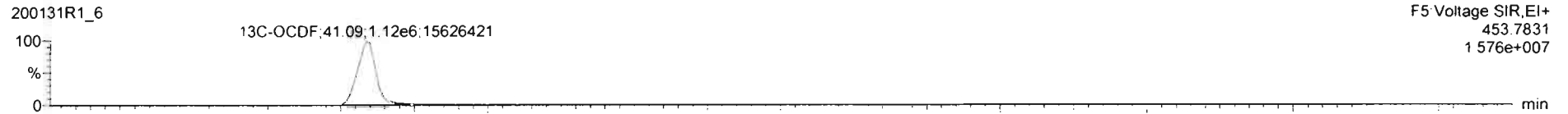
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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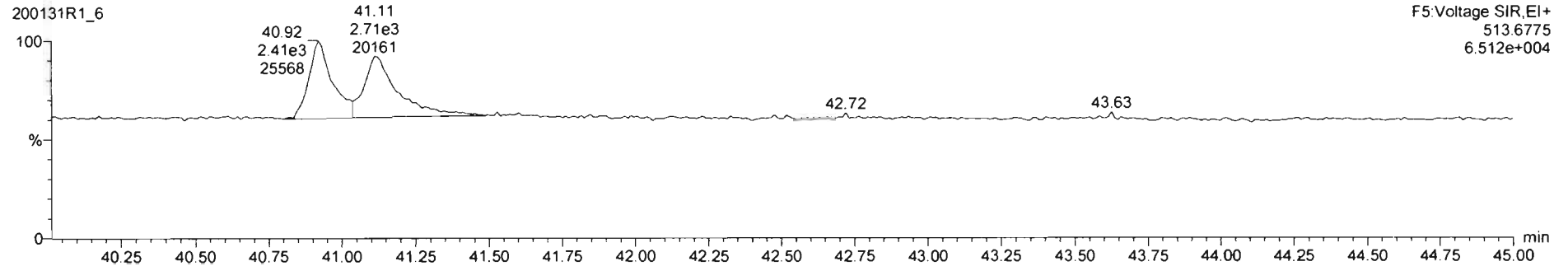
OCDF



13C-OCDF



DPE5

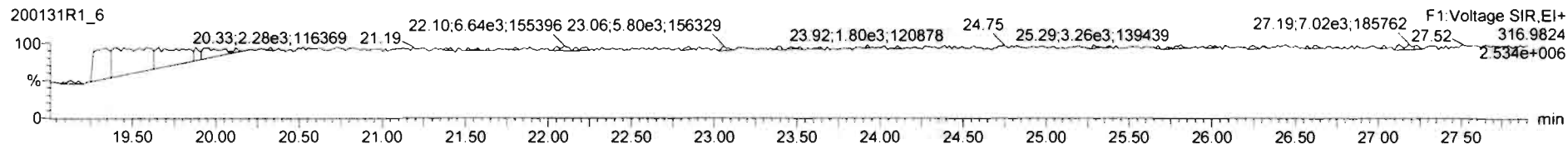


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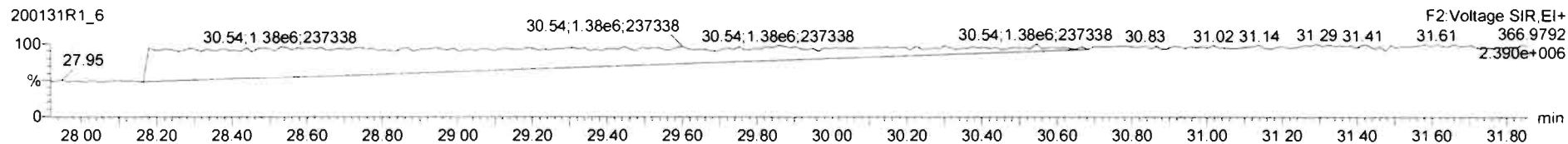
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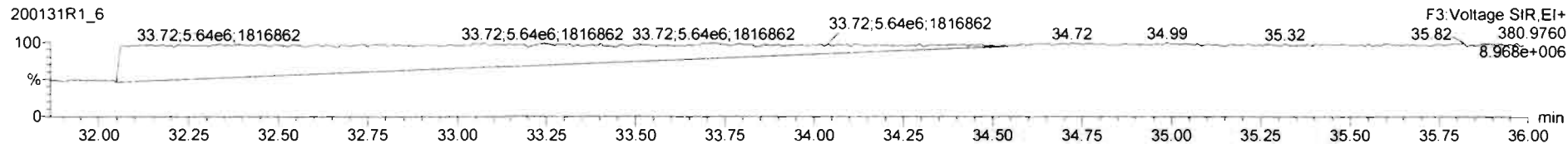
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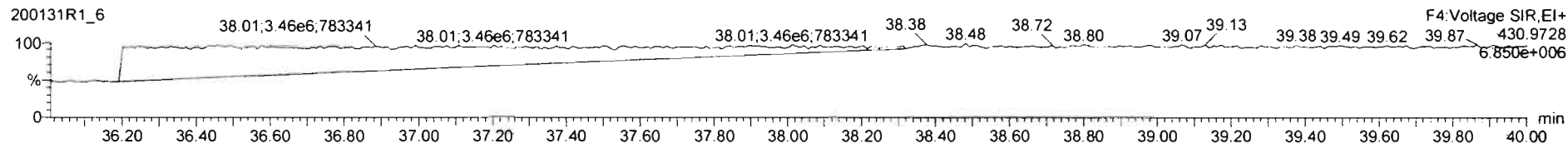
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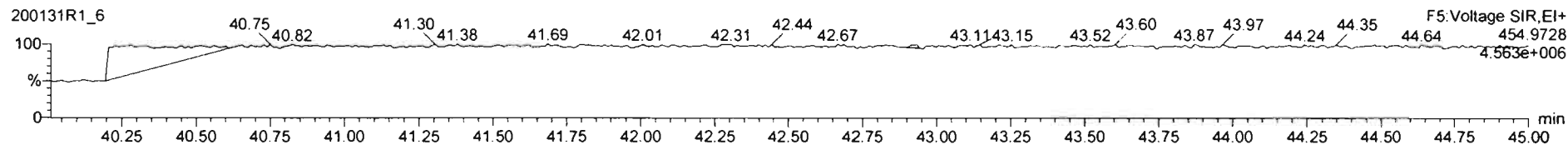
PFK3



PFK4



PFK5

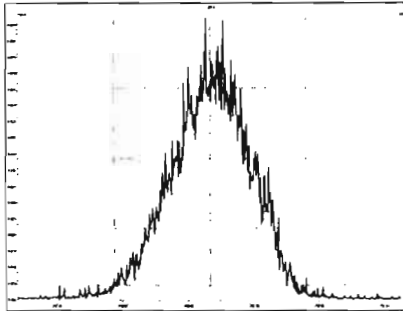


Resolution Check Report

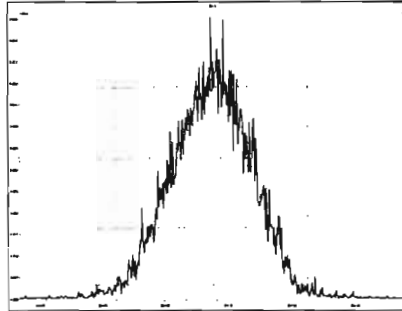
MassLynx 4.1 SCN815

Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

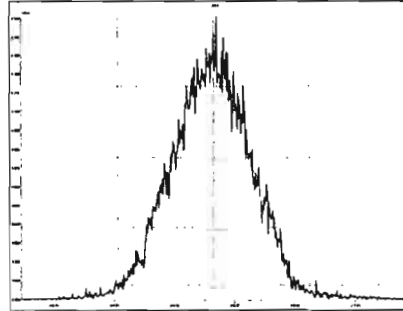
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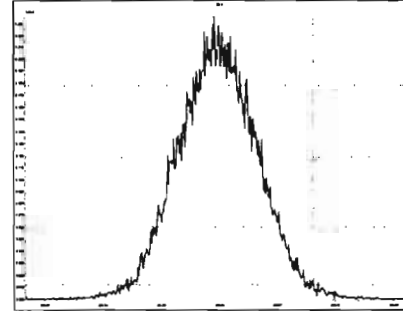
M 304.9824 R 11062



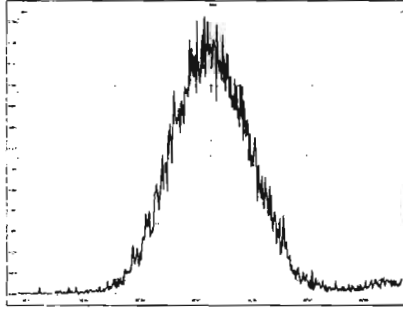
M 318.9792 R 11312



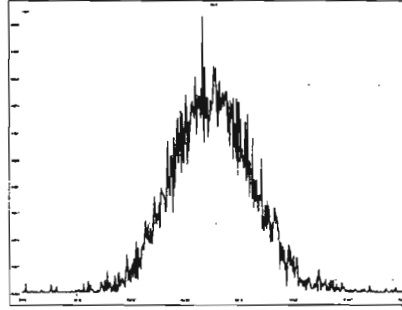
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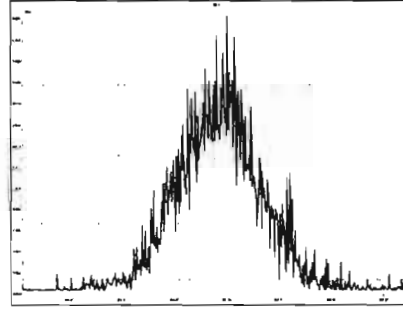
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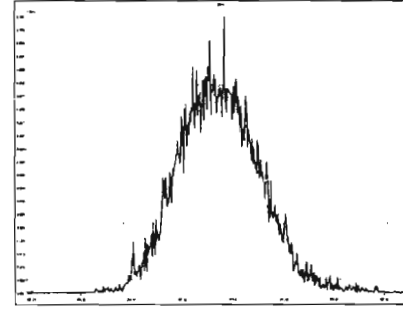
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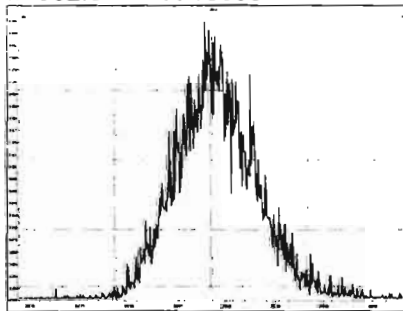
M 366.9792 R 10852



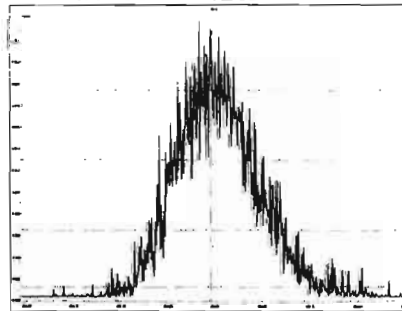
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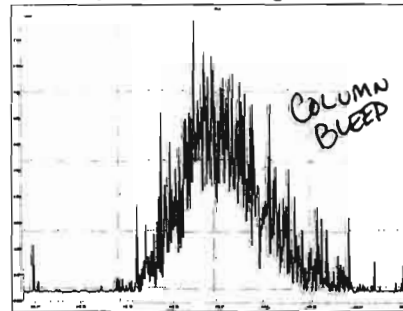
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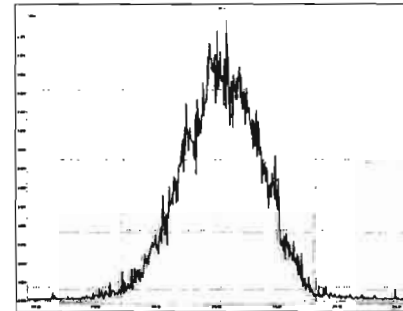
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M 416.9760 R 6578 ok

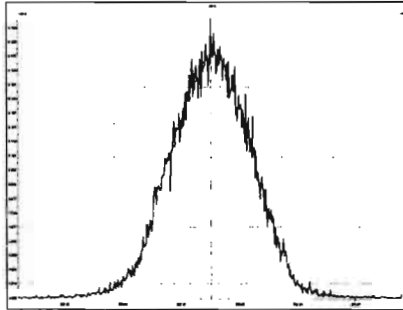


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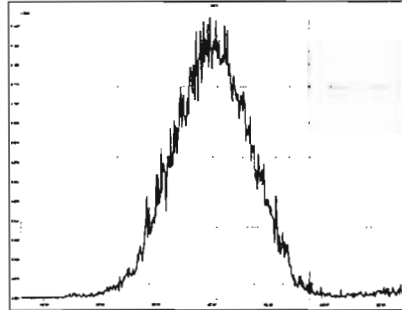


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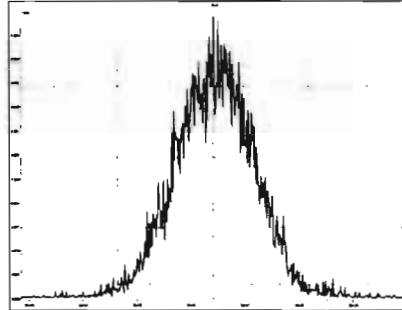
M 330.9792 R 11210



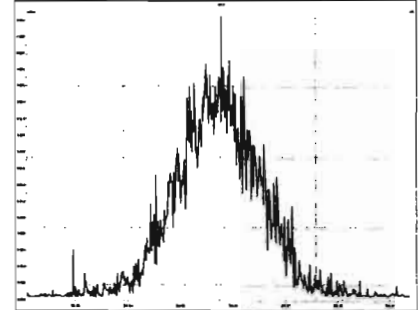
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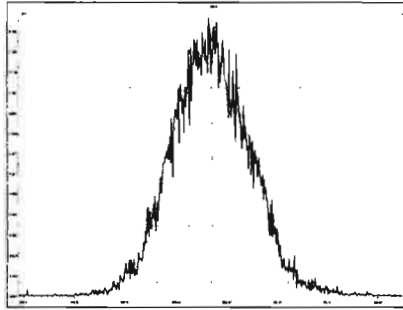
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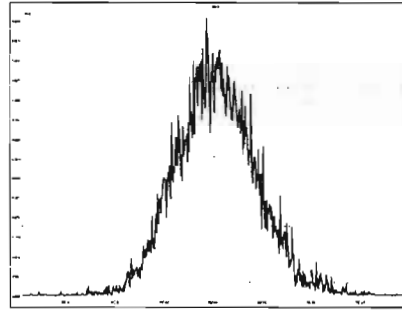
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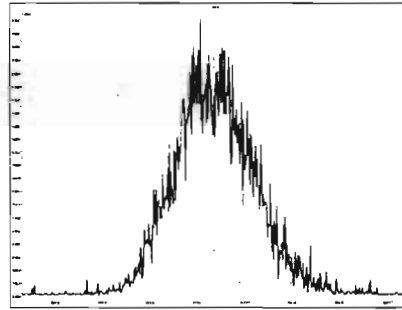
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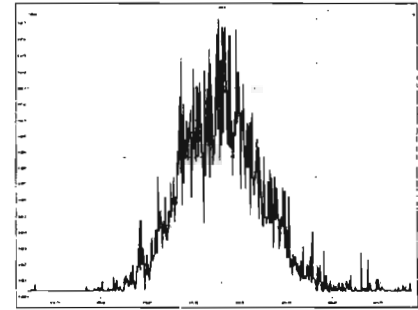
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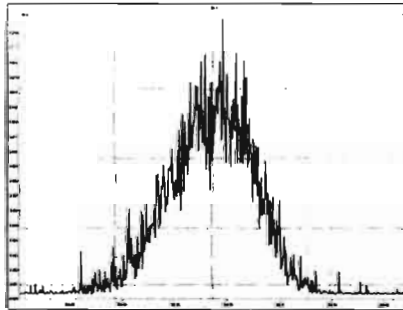
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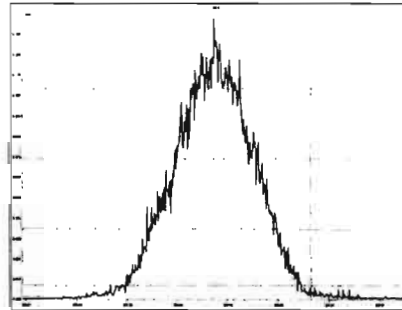
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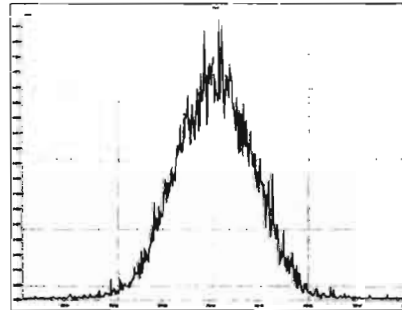
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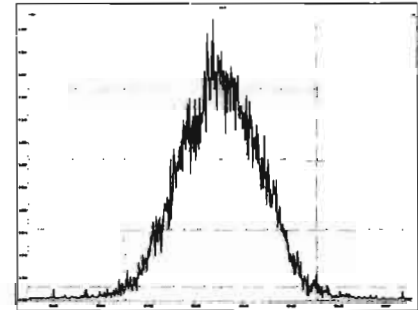
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M 392.9760 R 10930

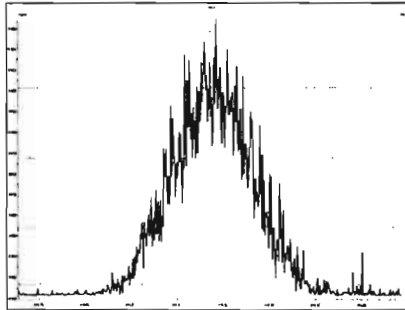


M 404.9760 R 11521

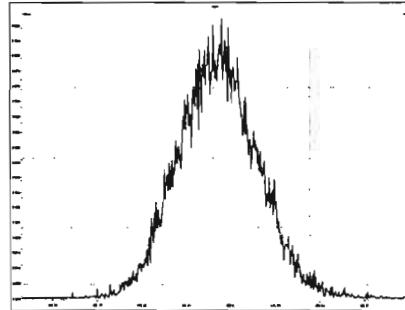


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

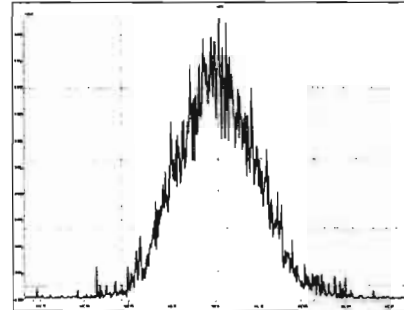
M 416.9760 R 11014



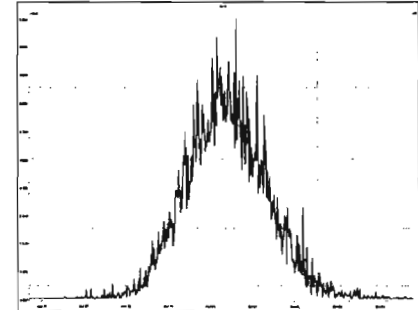
M 430.9728 R 10686



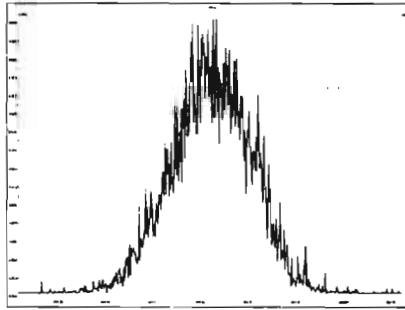
M 442.9728 R 10762



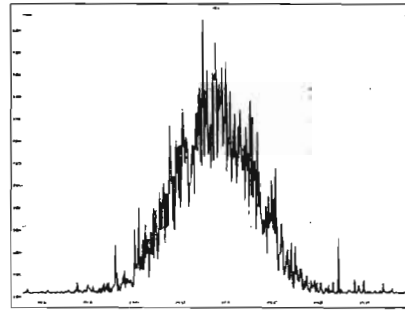
M 454.9728 R 11261



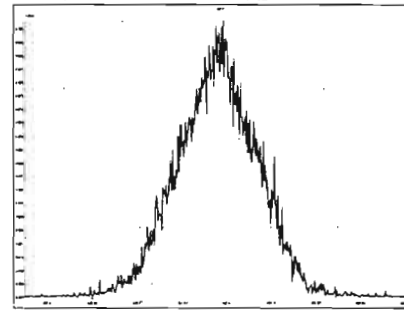
M 404.9760 R 10356



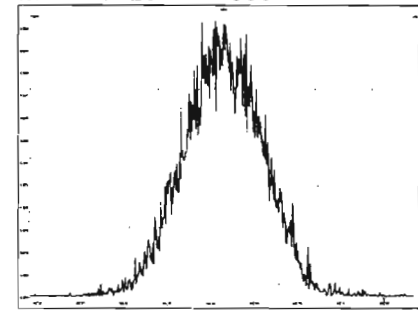
M 416.9760 R 10817



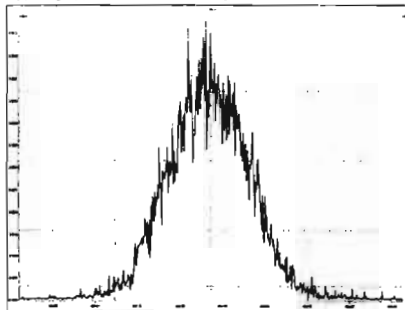
M 430.9728 R 10732



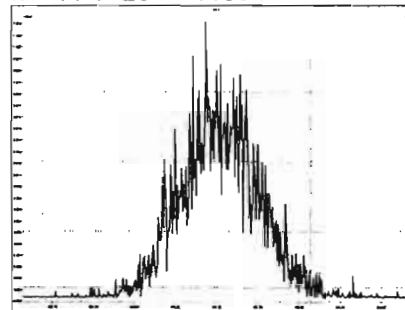
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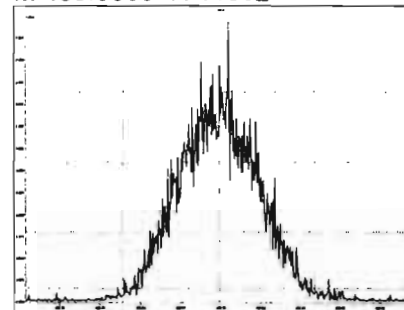
M 454.9728 R 11574



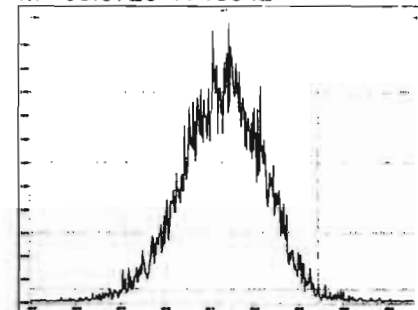
M 466.9728 R 11854



M 480.9696 R 11062

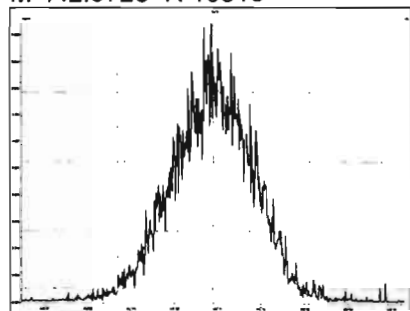


M 430.9728 R 10642

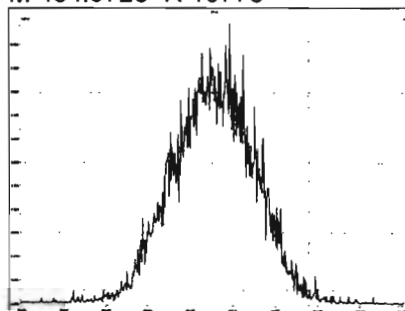


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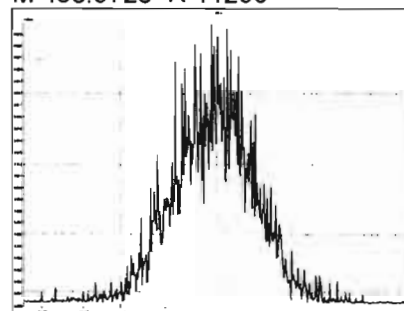
M 442.9728 R 10615



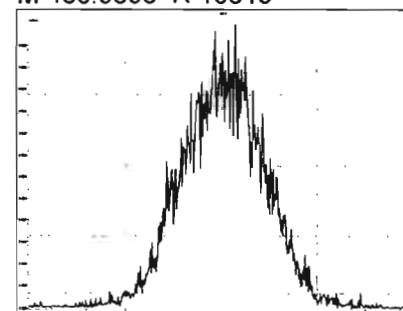
M 454.9728 R 10778



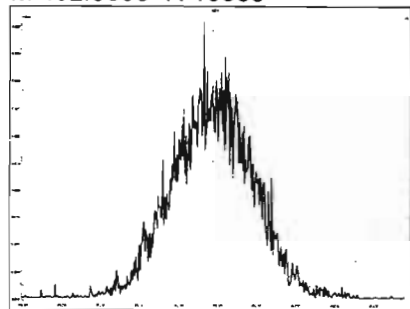
M 466.9728 R 11290



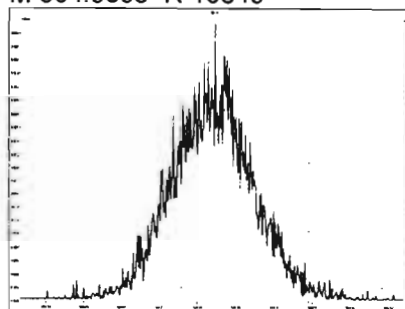
M 480.9696 R 10615



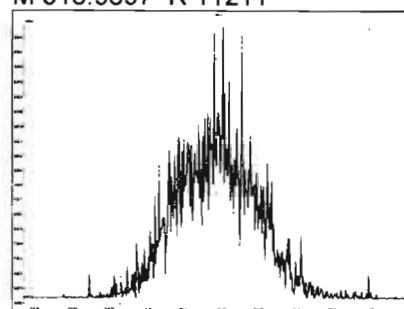
M 492.9696 R 10685



M 504.9696 R 10849



M 516.9697 R 11211



Dataset: U:\VG12.PRO\Results\200131R1\200131R1-8.qld

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

GPB 02/02/2020

C7 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.56e5	0.77	NO	0.988	1.000	25.691	25.69	1.001	1.001	10.621	106	0.0312	10.6
2	2 1,2,3,7,8-PeCDD	6.38e5	0.61	NO	0.972	1.000	30.627	30.62	1.001	1.001	53.028	106	0.0615	53.0
3	3 1,2,3,4,7,8-HxCDD	5.69e5	1.22	NO	1.07	1.000	33.966	33.97	1.000	1.000	53.501	107	0.0848	53.5
4	4 1,2,3,6,7,8-HxCDD	6.05e5	1.23	NO	0.921	1.000	34.062	34.07	1.000	1.000	57.295	115	0.0864	57.3
5	5 1,2,3,7,8,9-HxCDD	5.57e5	1.21	NO	0.918	1.000	34.373	34.35	1.001	1.000	55.837	112	0.0961	55.8
6	6 1,2,3,4,6,7,8-HpCDD	4.04e5	1.06	NO	0.923	1.000	37.886	37.90	1.000	1.001	54.330	109	0.220	54.3
7	7 OCDD	7.74e5	0.92	NO	0.975	1.000	40.878	40.89	1.000	1.000	108.30	108	0.139	108
8	8 2,3,7,8-TCDF	1.73e5	0.74	NO	0.802	1.000	24.802	24.79	1.001	1.001	10.751	108	0.0280	10.8
9	9 1,2,3,7,8-PeCDF	9.70e5	1.53	NO	0.907	1.000	29.345	29.34	1.001	1.001	54.081	108	0.0886	54.1
10	10 2,3,4,7,8-PeCDF	1.11e6	1.53	NO	0.952	1.000	30.331	30.32	1.001	1.001	60.939	122	0.0845	60.9
11	11 1,2,3,4,7,8-HxCDF	5.97e5	1.15	NO	0.862	1.000	33.093	33.10	1.000	1.000	56.486	113	0.117	56.5
12	12 1,2,3,6,7,8-HxCDF	6.65e5	1.16	NO	0.841	1.000	33.220	33.22	1.000	1.000	55.919	112	0.104	55.9
13	13 2,3,4,6,7,8-HxCDF	5.96e5	1.17	NO	0.898	1.000	33.819	33.81	1.001	1.001	53.809	108	0.119	53.8
14	14 1,2,3,7,8,9-HxCDF	4.82e5	1.16	NO	0.858	1.000	34.690	34.71	1.000	1.001	54.259	109	0.175	54.3
15	15 1,2,3,4,6,7,8-HpCDF	4.07e5	0.95	NO	0.851	1.000	36.473	36.45	1.001	1.000	56.639	113	0.174	56.6
16	16 1,2,3,4,7,8,9-HpCDF	3.25e5	0.98	NO	0.980	1.000	38.471	38.48	1.000	1.000	55.517	111	0.189	55.5
17	17 OCDF	7.18e5	0.86	NO	0.806	1.000	41.070	41.08	1.000	1.000	105.51	106	0.148	106
18	18 13C-2,3,7,8-TCDD	1.49e6	0.78	NO	1.20	1.000	25.660	25.66	1.026	1.026	92.060	92.1	0.106	
19	19 13C-1,2,3,7,8-PeCDD	1.24e6	0.64	NO	0.967	1.000	30.395	30.61	1.215	1.223	95.149	95.1	0.134	
20	20 13C-1,2,3,4,7,8-HxCDD	9.93e5	1.27	NO	0.874	1.000	33.955	33.96	1.014	1.014	87.678	87.7	0.159	
21	21 13C-1,2,3,6,7,8-HxCDD	1.15e6	1.25	NO	1.05	1.000	34.056	34.06	1.017	1.017	84.618	84.6	0.133	
22	22 13C-1,2,3,7,8,9-HxCDD	1.09e6	1.25	NO	0.974	1.000	34.357	34.34	1.026	1.025	86.118	86.1	0.143	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.06e5	1.06	NO	0.747	1.000	37.907	37.87	1.132	1.131	83.254	83.3	0.245	
24	24 13C-OCDD	1.47e6	0.89	NO	0.707	1.000	40.787	40.88	1.218	1.221	160.15	80.1	0.173	
25	25 13C-2,3,7,8-TCDF	2.01e6	0.78	NO	1.07	1.000	24.842	24.78	0.993	0.990	91.210	91.2	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.98e6	1.58	NO	1.00	1.000	29.170	29.32	1.166	1.172	95.322	95.3	0.190	
27	27 13C-2,3,4,7,8-PeCDF	1.91e6	1.60	NO	0.962	1.000	30.120	30.30	1.204	1.211	96.164	96.2	0.198	
28	28 13C-1,2,3,4,7,8-HxCDF	1.23e6	0.52	NO	1.05	1.000	33.085	33.09	0.988	0.988	90.119	90.1	0.194	
29	29 13C-1,2,3,6,7,8-HxCDF	1.41e6	0.50	NO	1.19	1.000	33.185	33.21	0.991	0.992	91.687	91.7	0.171	
30	30 13C-2,3,4,6,7,8-HxCDF	1.23e6	0.51	NO	1.07	1.000	33.791	33.78	1.009	1.009	89.274	89.3	0.190	
31	31 13C-1,2,3,7,8,9-HxCDF	1.04e6	0.51	NO	0.922	1.000	34.692	34.69	1.036	1.036	86.700	86.7	0.220	

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-8.qld

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	8.43e5	0.43	NO	0.767	1.000	36.433	36.44	1.088	1.088	84.846	84.8	0.232	
33	13C-1,2,3,4,7,8,9-HpCDF	5.98e5	0.43	NO	0.552	1.000	38.443	38.47	1.148	1.149	83.515	83.5	0.322	
34	13C-OCDF	1.69e6	0.90	NO	0.789	1.000	41.021	41.07	1.225	1.226	165.15	82.6	0.137	
35	37Cl-2,3,7,8-TCDD	1.57e5			1.18	1.000	25.692	25.69	1.027	1.027	9.9110	99.1	0.0232	
36	13C-1,2,3,4-TCDD	1.35e6	0.81	NO	1.00	1.000	25.080	25.02	1.000	1.000	100.00	100	0.128	
37	13C-1,2,3,4-TCDF	2.07e6	0.79	NO	1.00	1.000	23.420	23.36	1.000	1.000	100.00	100	0.152	
38	13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.00	1.000	33.520	33.49	1.000	1.000	100.00	100	0.203	

Dataset: Untitled

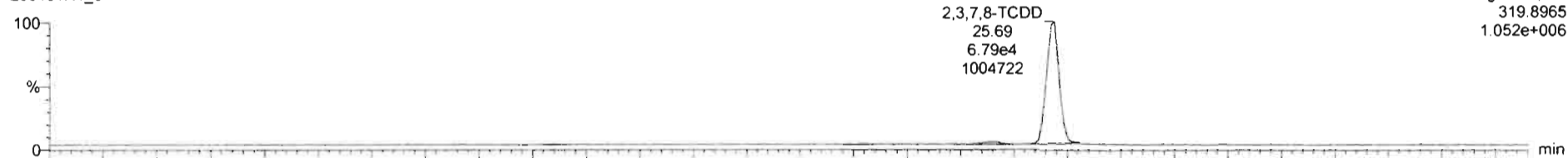
Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

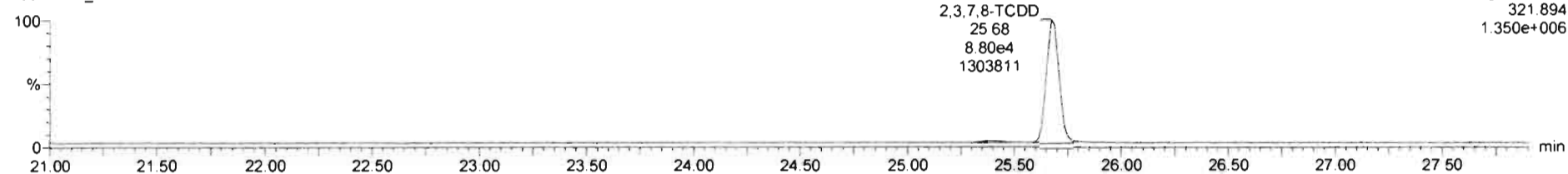
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDD

200131R1_8

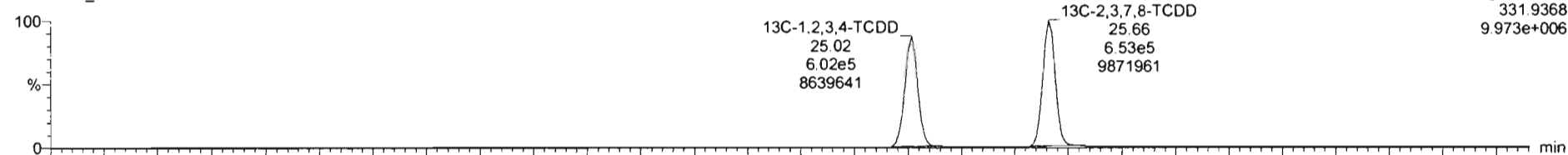


200131R1_8

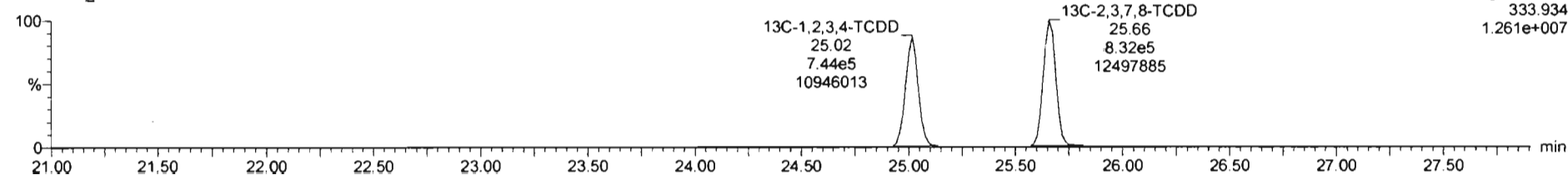


13C-2,3,7,8-TCDD

200131R1_8



200131R1_8



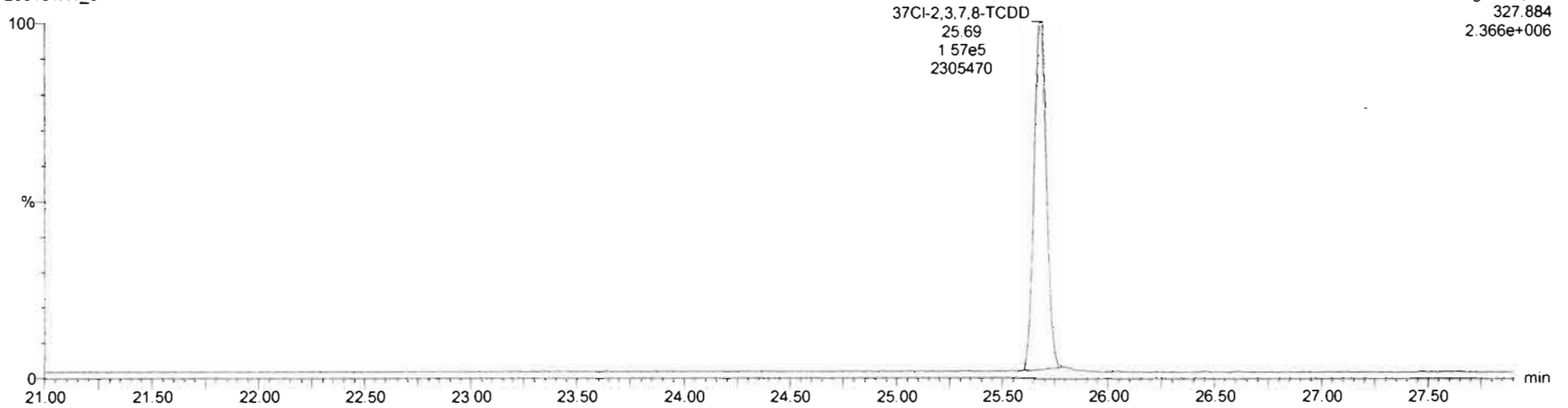
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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

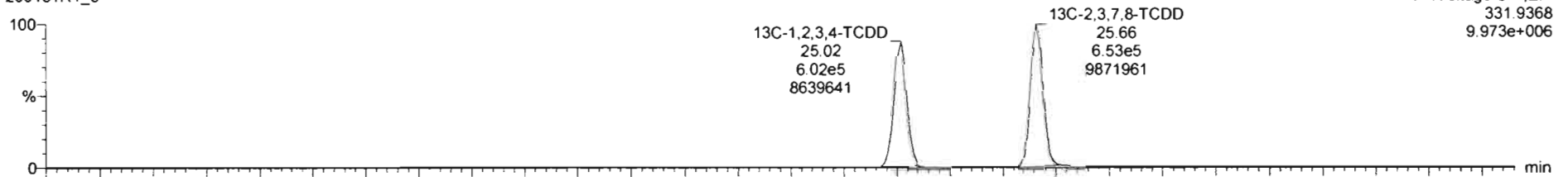
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200131R1_8

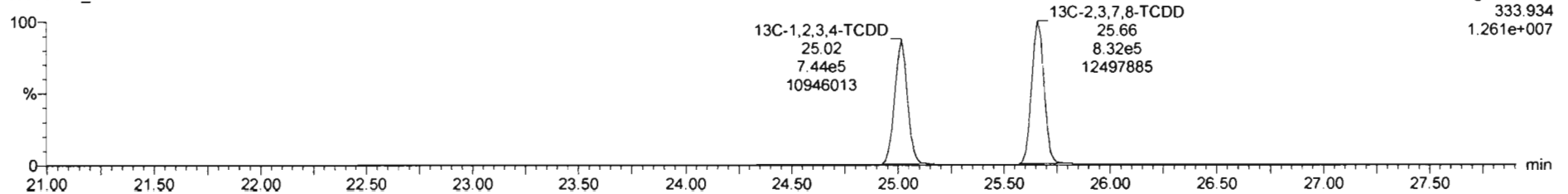


13C-1,2,3,4-TCDD

200131R1_8



200131R1_8



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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,7,8-PeCDD

200131R1_8

1,2,3,7,8-PeCDD
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2.43e5
4890309

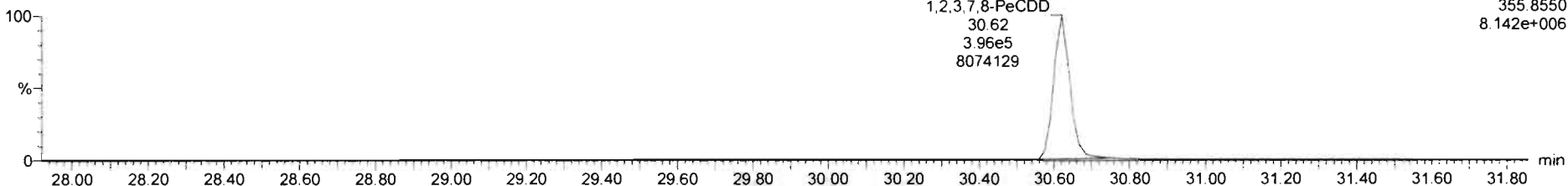
F2:Voltage SIR,EI+
353.8576
4.955e+006



200131R1_8

1,2,3,7,8-PeCDD
30.62
3.96e5
8074129

F2:Voltage SIR,EI+
355.8550
8.142e+006

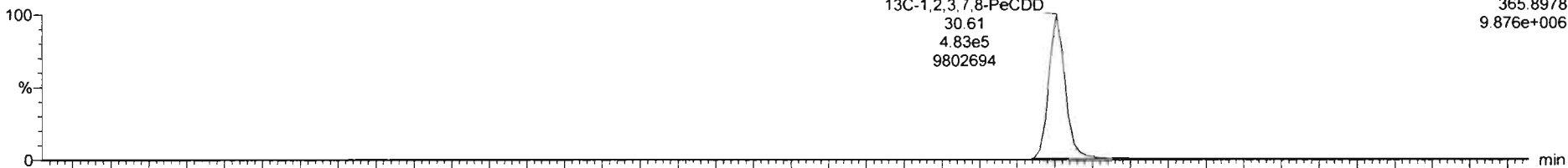


13C-1,2,3,7,8-PeCDD

200131R1_8

13C-1,2,3,7,8-PeCDD
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4.83e5
9802694

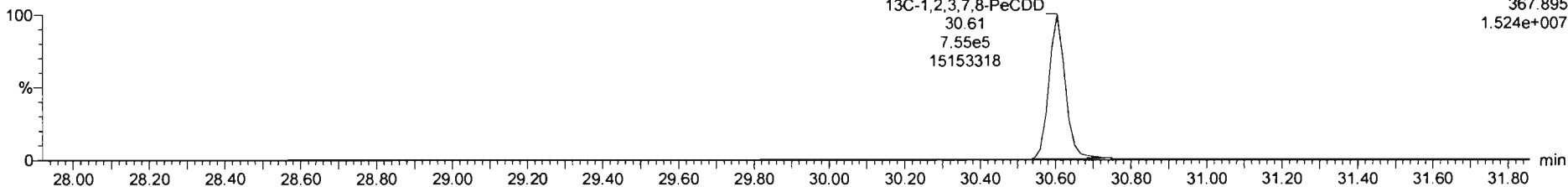
F2:Voltage SIR,EI+
365.8978
9.876e+006



200131R1_8

13C-1,2,3,7,8-PeCDD
30.61
7.55e5
15153318

F2:Voltage SIR,EI+
367.895
1.524e+007



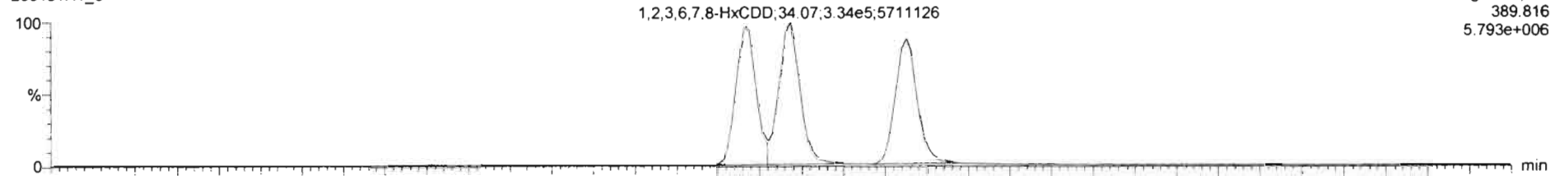
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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

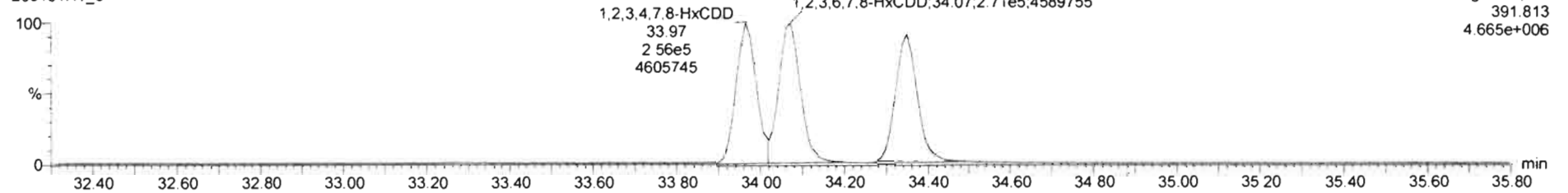
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1,2,3,4,7,8-HxCDD

200131R1_8

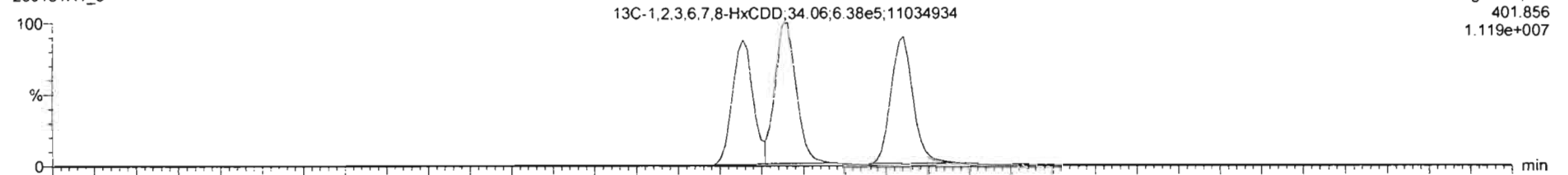


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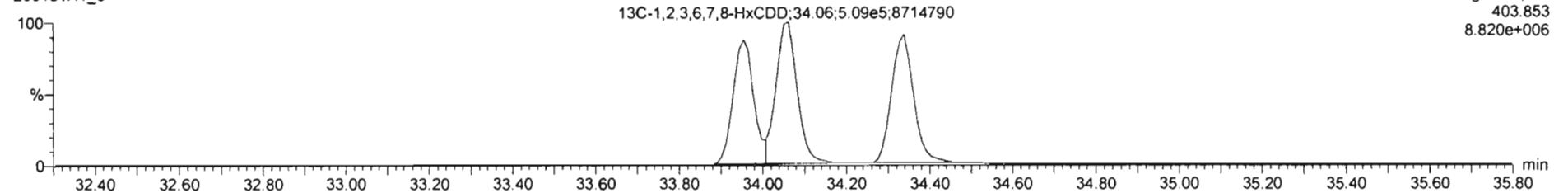


13C-1,2,3,4,7,8-HxCDD

200131R1_8



200131R1_8



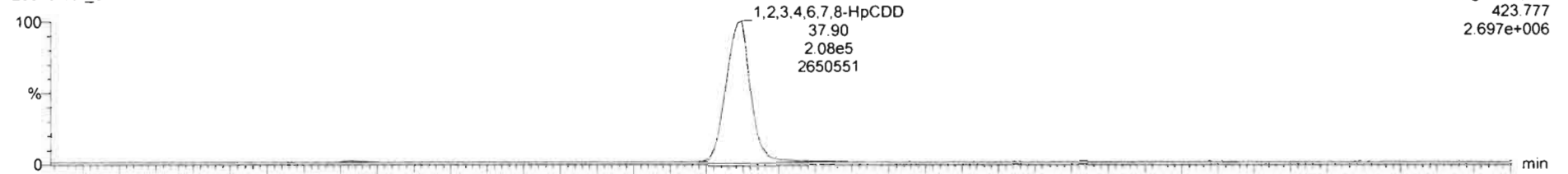
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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

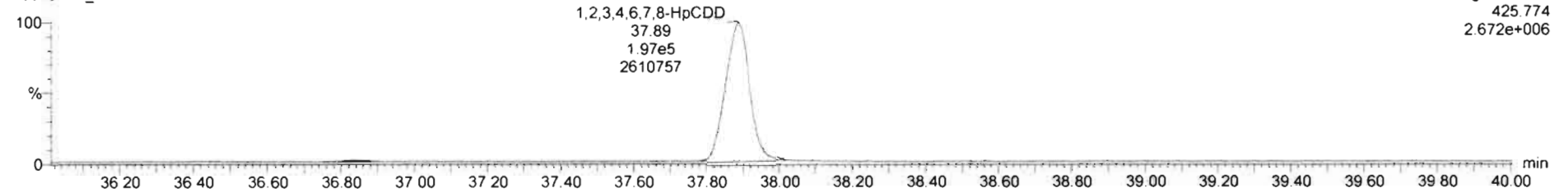
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1,2,3,4,6,7,8-HpCDD

200131R1_8

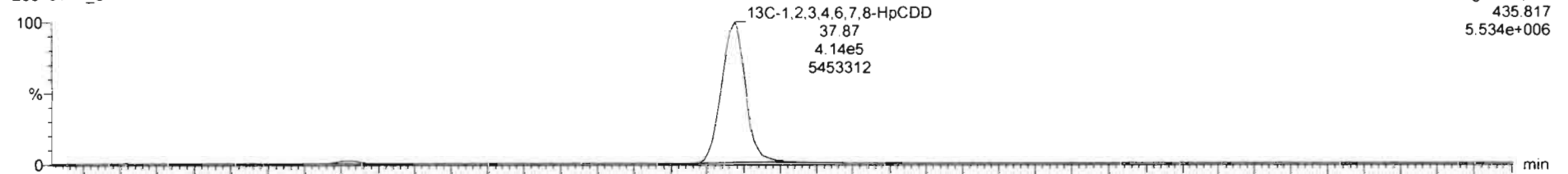


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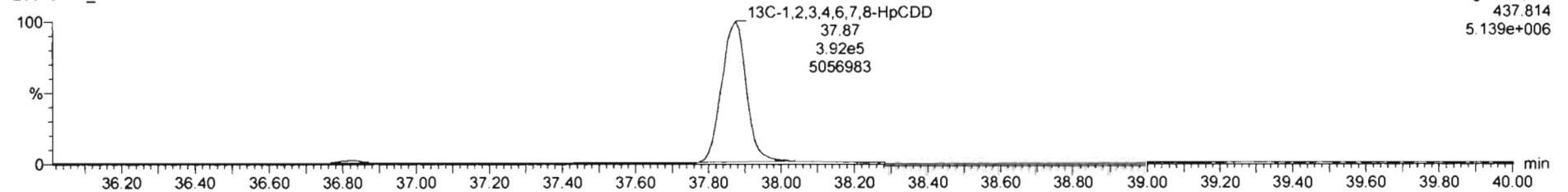


¹³C-1,2,3,4,6,7,8-HpCDD

200131R1_8



200131R1_8

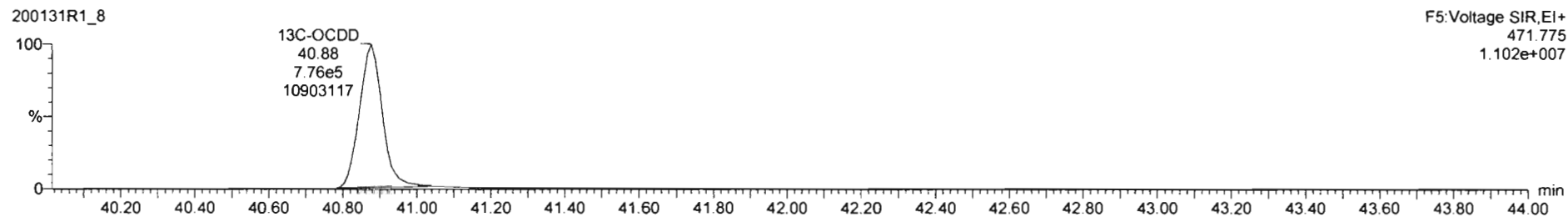
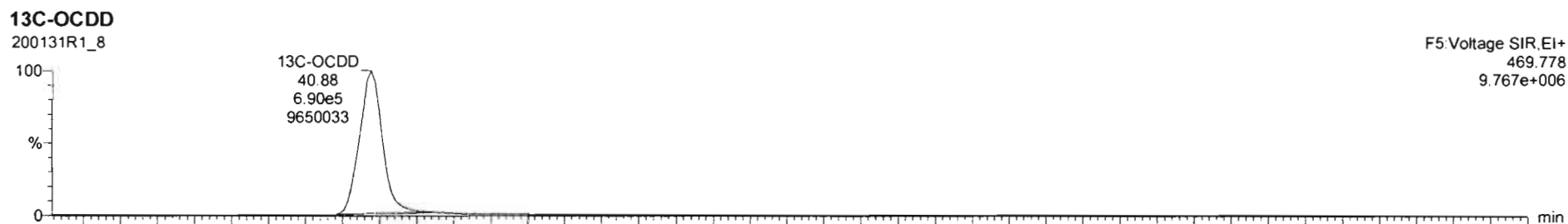
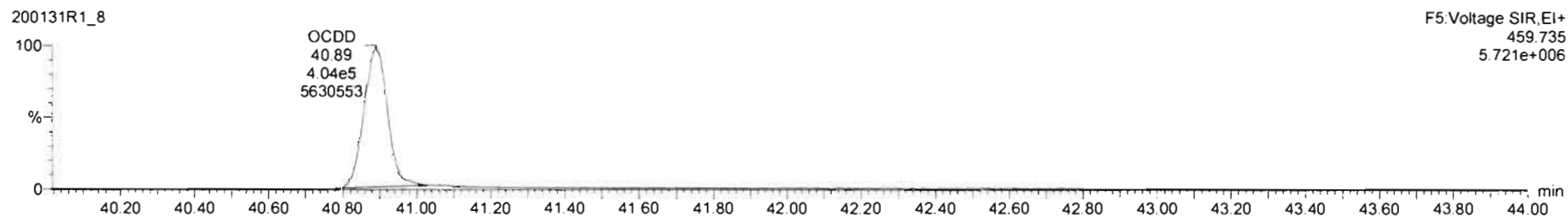
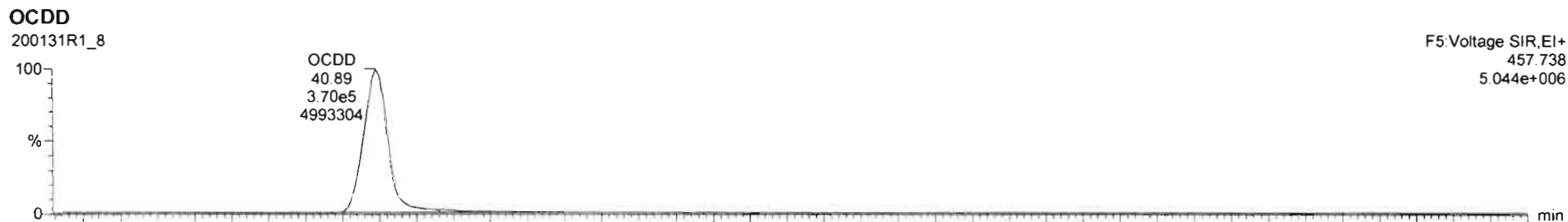


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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

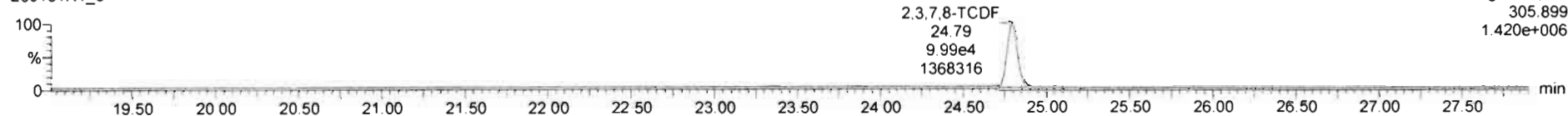
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200131R1_8

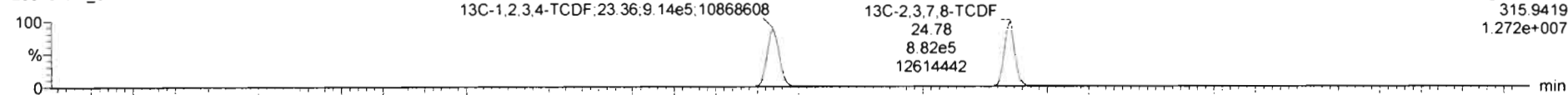


200131R1_8

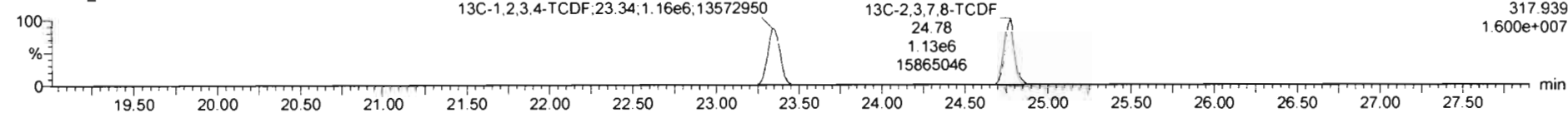


13C-2,3,7,8-TCDF

200131R1_8

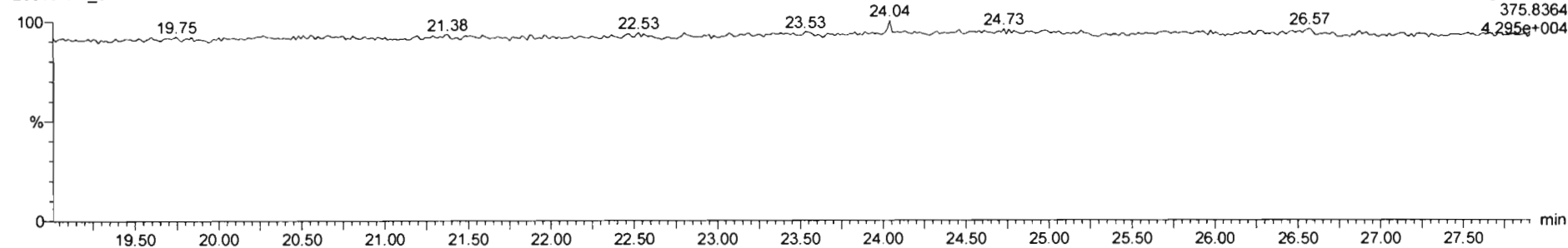


200131R1_8



DPE1

200131R1_8

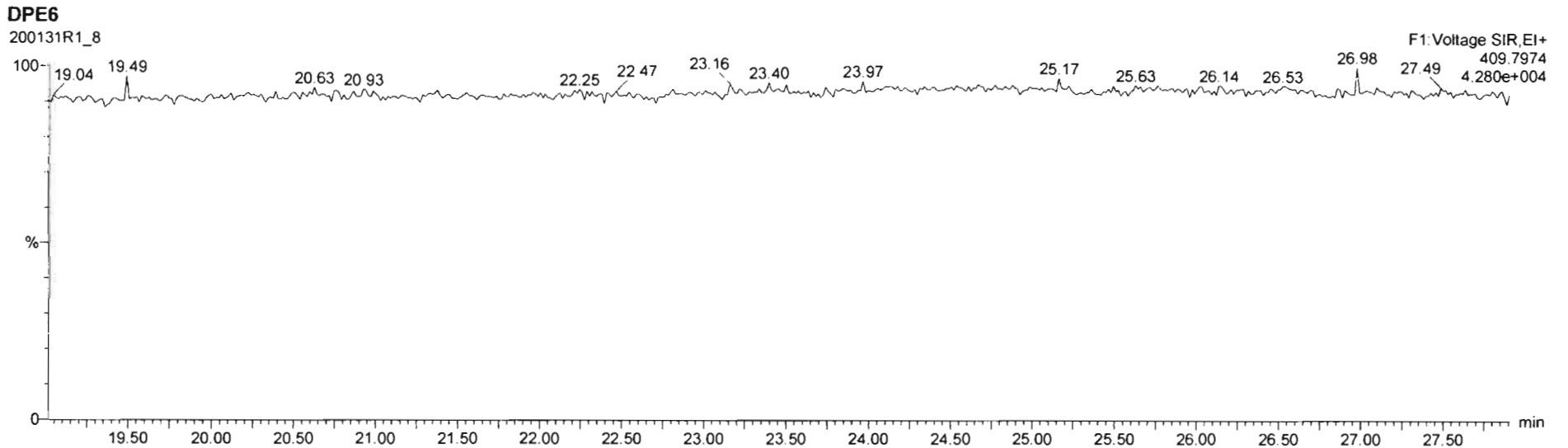
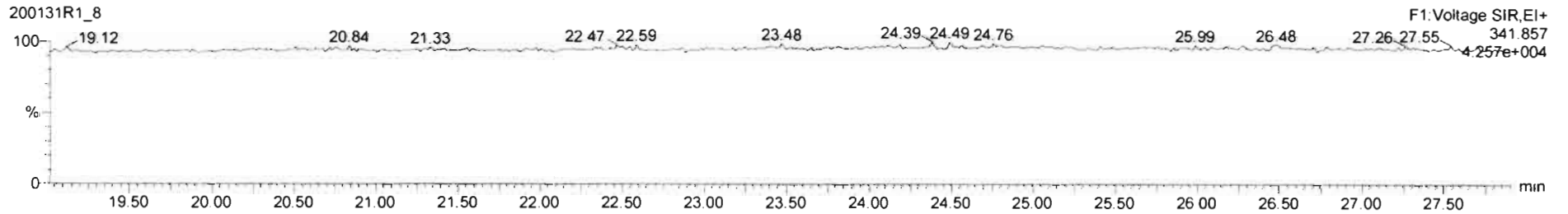
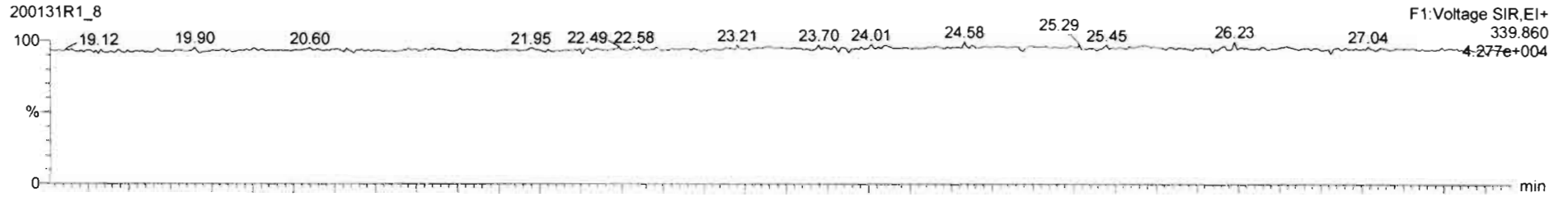


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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



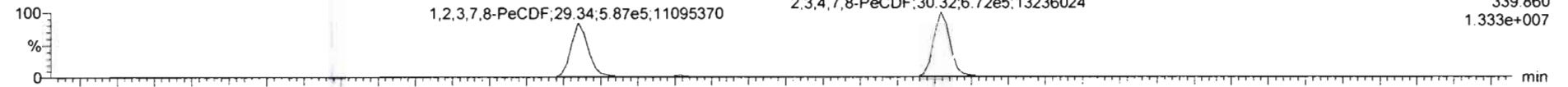
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

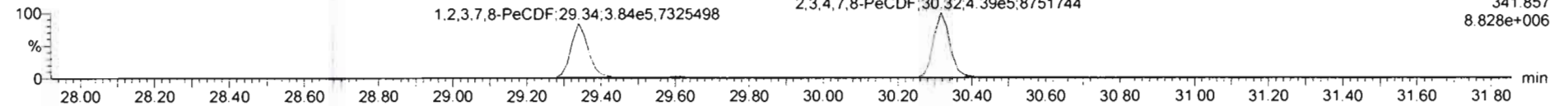
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1,2,3,7,8-PeCDF

200131R1_8

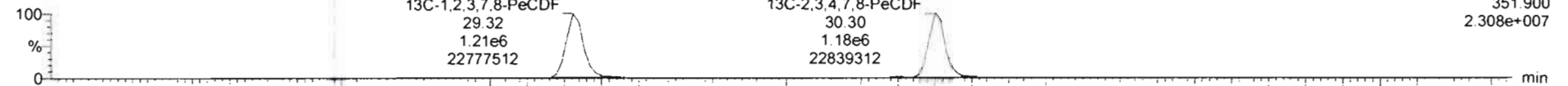


200131R1_8

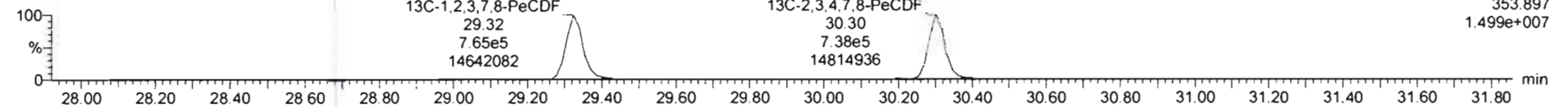


13C-1,2,3,7,8-PeCDF

200131R1_8

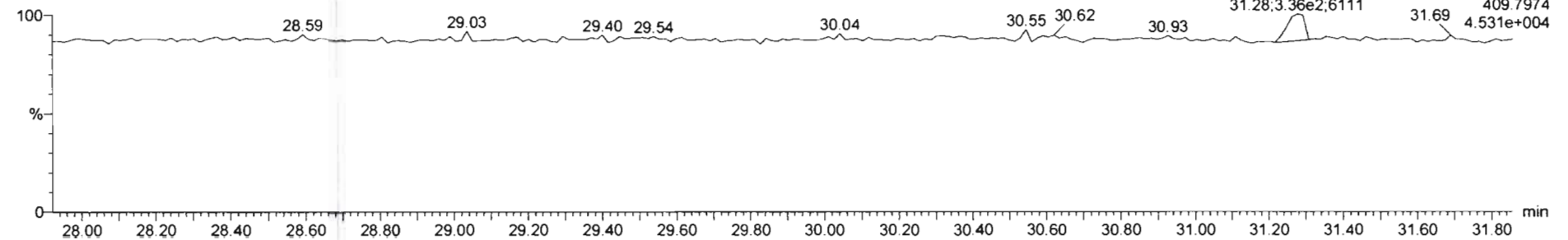


200131R1_8



DPE2

200131R1_8



Dataset: Untitled

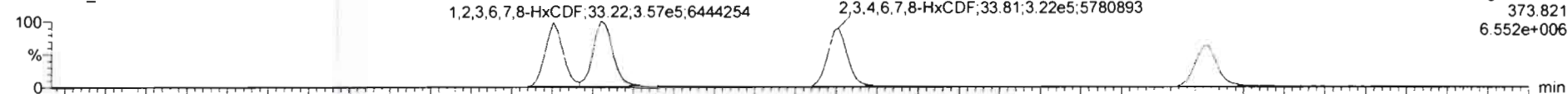
Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

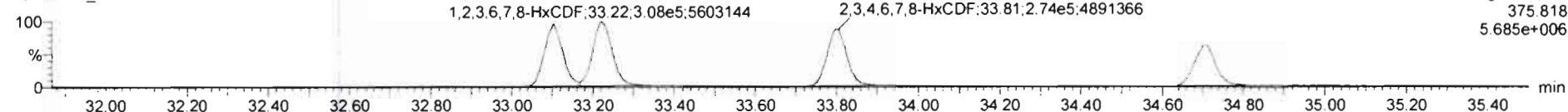
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1,2,3,4,7,8-HxCDF

200131R1_8

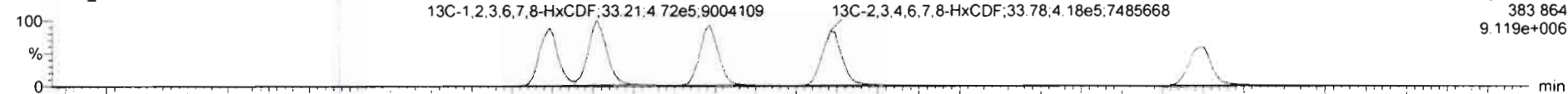


200131R1_8

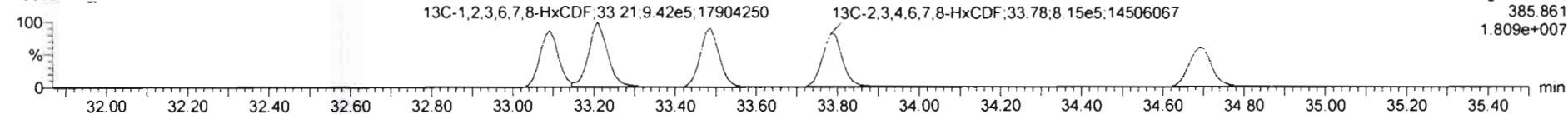


13C-1,2,3,4,7,8-HxCDF

200131R1_8

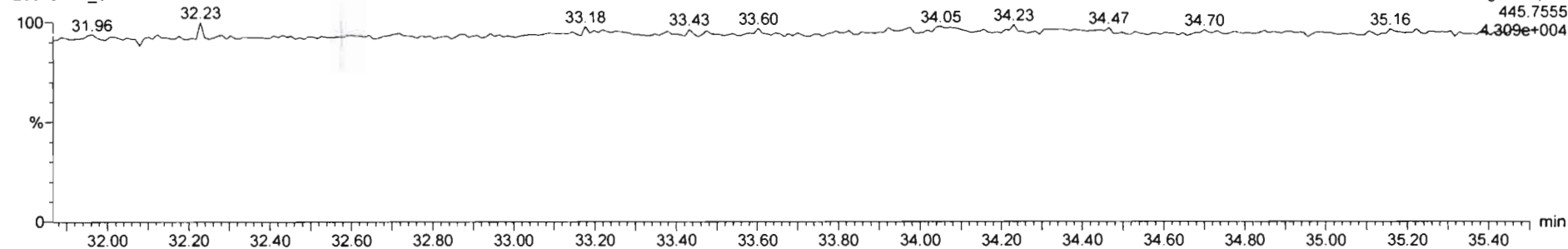


200131R1_8



DPE3

200131R1_8



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

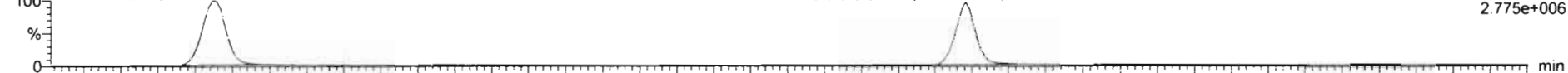
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200131R1_8

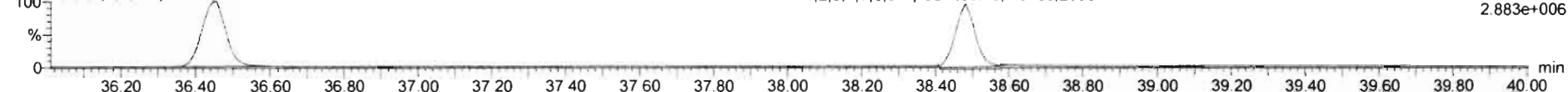
1,2,3,4,6,7,8-HpCDF;36.45;1.98e5;2717122



F4: Voltage SIR, EI+
407.782
2.775e+006

200131R1_8

1,2,3,4,6,7,8-HpCDF;36.45;2.08e5;2828787

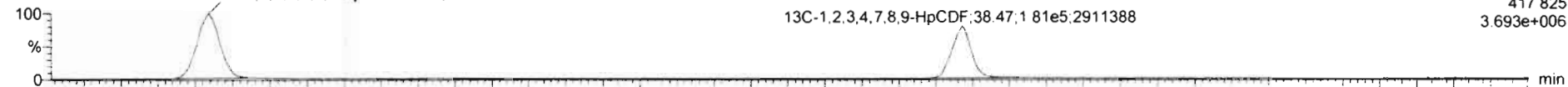


F4: Voltage SIR, EI+
409.779
2.883e+006

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

200131R1_8

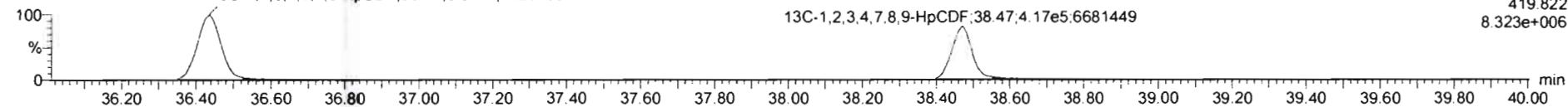
13C-1,2,3,4,6,7,8-HpCDF;36.44;2.54e5;3622240



F4: Voltage SIR, EI+
417.825
3.693e+006

200131R1_8

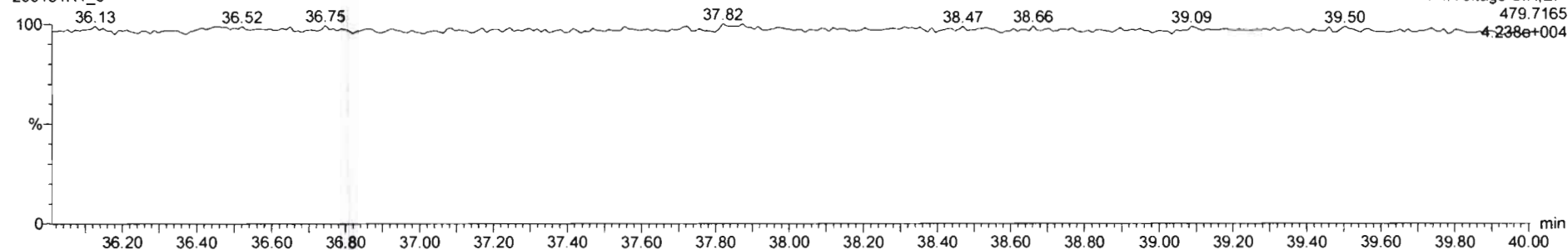
13C-1,2,3,4,6,7,8-HpCDF;36.44;5.89e5;8220130



F4: Voltage SIR, EI+
419.822
8.323e+006

DPE4

200131R1_8

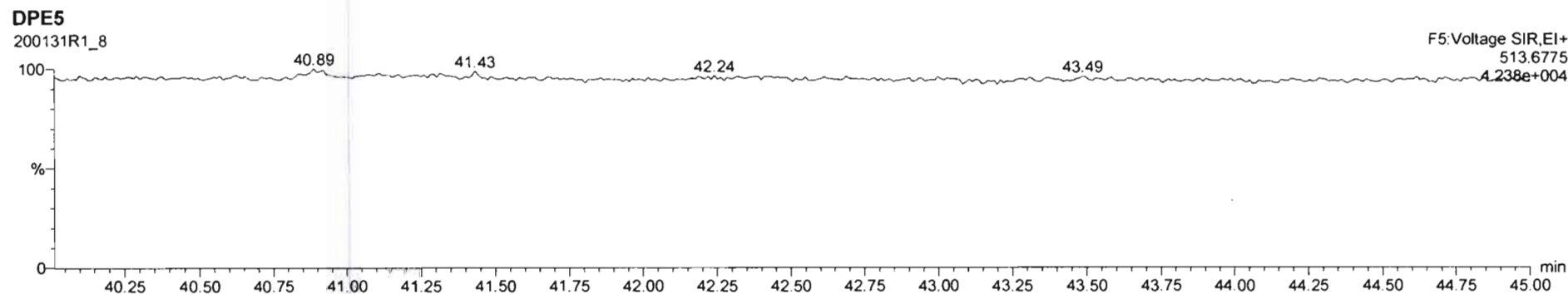
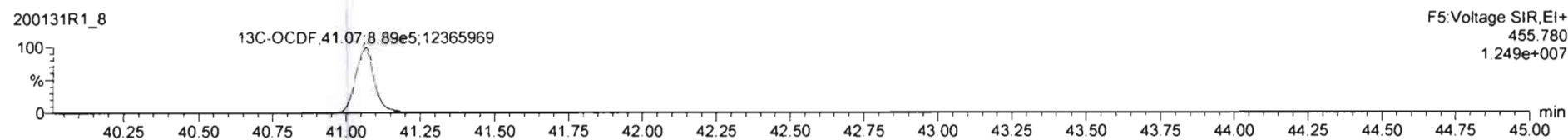
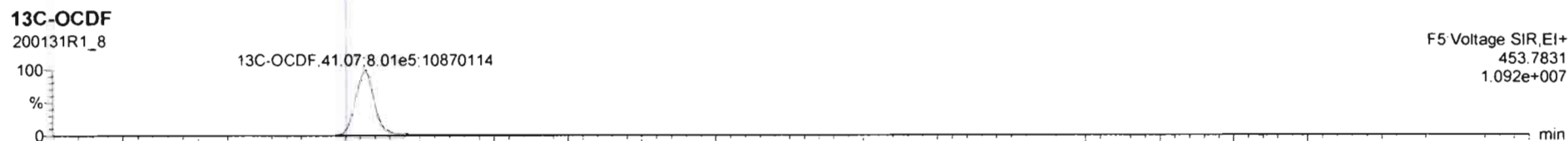
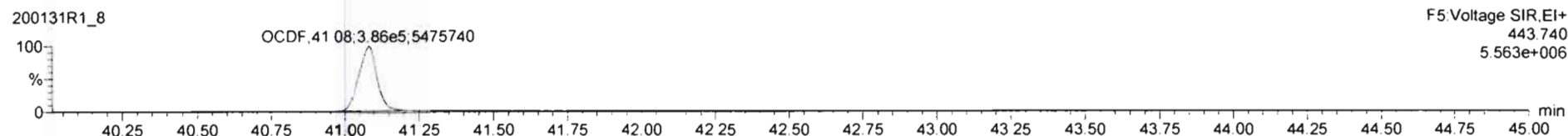
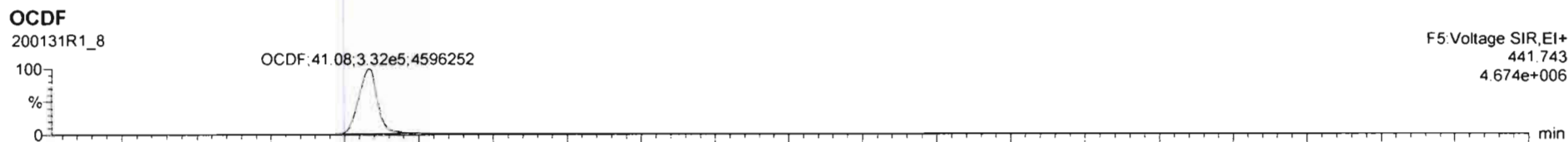


F4: Voltage SIR, EI+
479.7165
4.238e+004

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

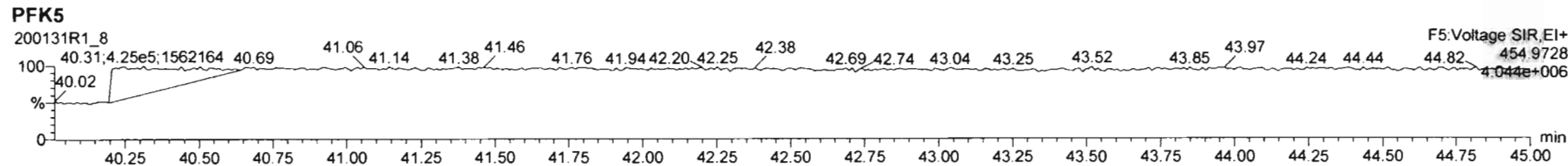
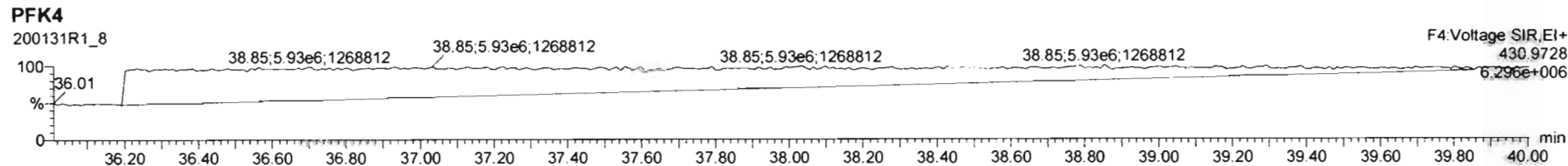
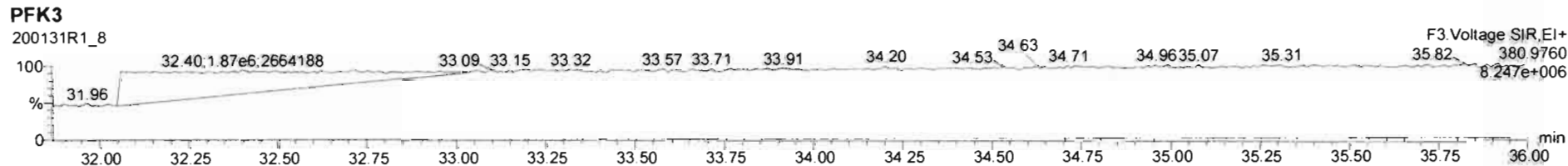
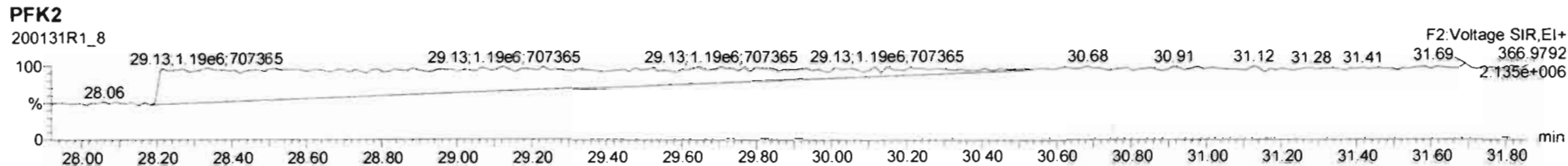
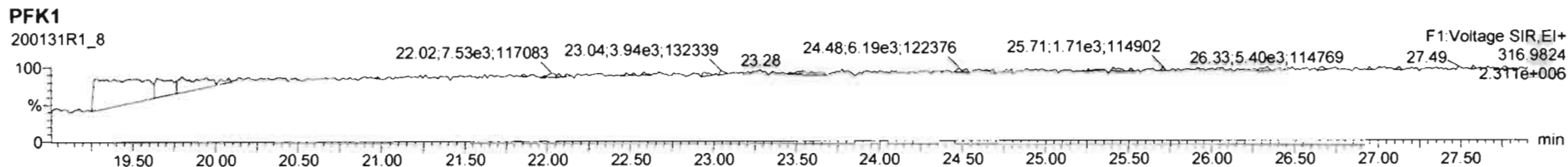


Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

GRB 03/09/2020

C1 03/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 11:03:08

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

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

Response Factor: 0.983462

RRF SD: 0.0620764, Relative SD: 6.31202

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	0.250	0.88	NO	25.83	1.001	2.55e3	1.02e6	0.255	1.8	1.00	MM
2	200306R2_2	0.500	0.79	NO	25.80	1.001	5.56e3	1.04e6	0.545	9.0	1.07	bb
3	200306R2_3	2.00	0.77	NO	25.81	1.001	2.04e4	9.83e5	2.11	5.3	1.04	bb
4	200306R2_4	10.0	0.80	NO	25.81	1.001	1.07e5	1.15e6	9.48	-5.2	0.933	db
5	200306R2_5	40.0	0.77	NO	25.80	1.001	4.79e5	1.30e6	37.6	-5.9	0.925	bb
6	200306R2_6	300	0.79	NO	25.80	1.001	3.75e6	1.34e6	285	-5.0	0.934	bb

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

Response Factor: 0.921241

RRF SD: 0.0620739, Relative SD: 6.73807

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	0.68	NO	31.00	1.000	7.57e3	7.13e5	1.15	-7.8	0.849	MM
2	200306R2_2	2.50	0.65	NO	30.97	1.000	1.74e4	6.98e5	2.70	8.2	0.996	bb
3	200306R2_3	10.0	0.68	NO	30.99	1.000	6.63e4	6.63e5	10.8	8.5	0.999	bb
4	200306R2_4	50.0	0.63	NO	30.99	1.000	3.98e5	9.00e5	48.0	-4.0	0.884	bb
5	200306R2_5	200	0.63	NO	30.99	1.000	1.71e6	9.49e5	195	-2.4	0.899	bb
6	200306R2_6	1500	0.63	NO	30.99	1.000	1.46e7	1.08e6	1460	-2.3	0.900	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
 Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

Response Factor: 1.13254

RRF SD: 0.050207, Relative SD: 4.43315

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.29	NO	34.40	1.001	7.33e3	5.37e5	1.21	-3.6	1.09	bd
2	200306R2_2	2.50	1.25	NO	34.37	1.001	1.58e4	5.23e5	2.66	6.4	1.21	bd
3	200306R2_3	10.0	1.25	NO	34.37	1.000	5.85e4	4.95e5	10.4	4.4	1.18	bd
4	200306R2_4	50.0	1.24	NO	34.38	1.001	3.69e5	6.79e5	48.0	-4.0	1.09	bd
5	200306R2_5	200	1.24	NO	34.37	1.000	1.50e6	6.81e5	194	-3.0	1.10	bd
6	200306R2_6	1500	1.24	NO	34.38	1.000	1.42e7	8.39e5	1500	-0.3	1.13	bd

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

Response Factor: 0.984449

RRF SD: 0.0570908, Relative SD: 5.79927

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.21	NO	34.49	1.000	7.49e3	6.23e5	1.22	-2.3	0.961	MM
2	200306R2_2	2.50	1.23	NO	34.47	1.000	1.71e4	6.45e5	2.69	7.8	1.06	db
3	200306R2_3	10.0	1.24	NO	34.48	1.000	6.35e4	6.06e5	10.6	6.4	1.05	db
4	200306R2_4	50.0	1.26	NO	34.48	1.000	3.94e5	8.29e5	48.3	-3.4	0.951	db
5	200306R2_5	200	1.25	NO	34.47	1.000	1.68e6	8.67e5	197	-1.6	0.969	db
6	200306R2_6	1500	1.24	NO	34.49	1.001	1.45e7	1.05e6	1400	-6.8	0.917	db

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

Response Factor: 0.967395

RRF SD: 0.0672904, Relative SD: 6.95583

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.19	NO	34.76	1.000	6.08e3	5.57e5	1.13	-9.9	0.872	MM
2	200306R2_2	2.50	1.24	NO	34.74	1.001	1.51e4	5.80e5	2.70	7.9	1.04	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	10.0	1.23	NO	34.74	1.000	5.71e4	5.46e5	10.8	8.1	1.05	bb
4	200306R2_4	50.0	1.23	NO	34.74	1.000	3.51e5	7.47e5	48.6	-2.9	0.940	bb
5	200306R2_5	200	1.25	NO	34.74	1.000	1.47e6	7.83e5	194	-2.8	0.940	bb
6	200306R2_6	1500	1.23	NO	34.75	1.000	1.34e7	9.31e5	1490	-0.5	0.963	bb

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

Response Factor: 1.00606

RRF SD: 0.0598777, Relative SD: 5.95172

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

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.04	NO	38.23	1.000	4.50e3	3.74e5	1.19	-4.5	0.960	MM
2	200306R2_2	2.50	1.03	NO	38.17	1.000	1.17e4	4.34e5	2.69	7.6	1.08	bb
3	200306R2_3	10.0	1.02	NO	38.18	1.000	4.15e4	3.84e5	10.7	7.4	1.08	bb
4	200306R2_4	50.0	1.03	NO	38.21	1.000	2.63e5	5.52e5	47.4	-5.1	0.954	bb
5	200306R2_5	200	1.04	NO	38.21	1.001	1.14e6	5.89e5	192	-3.9	0.967	bb
6	200306R2_6	1500	1.03	NO	38.22	1.001	9.92e6	6.67e5	1480	-1.4	0.992	bb

Compound name: OCDD

Response Factor: 1.05145

RRF SD: 0.114587, Relative SD: 10.898

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	2.50	0.84	NO	41.25	1.000	1.06e4	7.05e5	2.86	14.2	1.20	MM
2	200306R2_2	5.00	0.98	NO	41.22	1.000	2.24e4	7.62e5	5.60	12.0	1.18	MM
3	200306R2_3	20.0	0.87	NO	41.23	1.000	7.58e4	7.16e5	20.1	0.7	1.06	bb
4	200306R2_4	100	0.90	NO	41.23	1.000	4.62e5	9.75e5	90.2	-9.8	0.948	bb
5	200306R2_5	400	0.89	NO	41.22	1.000	2.22e6	1.17e6	360	-10.0	0.946	bb
6	200306R2_6	3000	0.89	NO	41.24	1.000	2.08e7	1.42e6	2790	-7.1	0.977	MM

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
 Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

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

Response Factor: 0.915401

RRF SD: 0.0583768, Relative SD: 6.37719

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	0.250	0.84	NO	24.87	1.001	3.09e3	1.43e6	0.235	-5.9	0.861	MM
2	200306R2_2	0.500	0.78	NO	24.82	1.001	7.23e3	1.45e6	0.546	9.2	1.00	bb
3	200306R2_3	2.00	0.78	NO	24.82	1.001	2.69e4	1.38e6	2.14	6.8	0.978	bb
4	200306R2_4	10.0	0.77	NO	24.84	1.001	1.28e5	1.46e6	9.56	-4.4	0.875	bb
5	200306R2_5	40.0	0.77	NO	24.82	1.001	6.19e5	1.74e6	38.8	-3.1	0.887	bb
6	200306R2_6	300	0.77	NO	24.82	1.001	4.83e6	1.81e6	292	-2.7	0.891	bb

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

Response Factor: 0.959427

RRF SD: 0.0433152, Relative SD: 4.51469

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.49	NO	29.68	1.000	1.28e4	1.13e6	1.18	-5.5	0.906	MM
2	200306R2_2	2.50	1.64	NO	29.63	1.000	2.70e4	1.07e6	2.63	5.3	1.01	bb
3	200306R2_3	10.0	1.54	NO	29.65	1.000	1.01e5	9.93e5	10.6	5.7	1.01	MM
4	200306R2_4	50.0	1.55	NO	29.66	1.001	6.19e5	1.30e6	49.4	-1.1	0.948	bb
5	200306R2_5	200	1.56	NO	29.65	1.000	2.60e6	1.38e6	196	-1.9	0.941	bb
6	200306R2_6	1500	1.53	NO	29.66	1.000	2.21e7	1.58e6	1460	-2.4	0.936	bb

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

Response Factor: 1.00349

RRF SD: 0.0546018, Relative SD: 5.44122

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.61	NO	30.70	1.000	1.23e4	1.05e6	1.17	-6.4	0.940	MM
2	200306R2_2	2.50	1.54	NO	30.65	1.000	2.75e4	1.02e6	2.70	8.1	1.08	bb

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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	200306R2_3	10.0	1.56	NO	30.67	1.000	1.02e5	9.68e5	10.5	5.1	1.05	bb
4	200306R2_4	50.0	1.58	NO	30.67	1.000	6.26e5	1.27e6	49.3	-1.4	0.990	bb
5	200306R2_5	200	1.54	NO	30.67	1.000	2.65e6	1.36e6	195	-2.6	0.978	bb
6	200306R2_6	1500	1.53	NO	30.68	1.000	2.24e7	1.53e6	1460	-2.8	0.975	bb

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

Response Factor: 1.03807
 RRF SD: 0.0538106, Relative SD: 5.18374
 Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.12	NO	33.54	1.001	8.84e3	7.10e5	1.20	-4.0	0.996	bd
2	200306R2_2	2.50	1.19	NO	33.51	1.000	1.92e4	6.91e5	2.68	7.2	1.11	bd
3	200306R2_3	10.0	1.26	NO	33.52	1.000	7.18e4	6.52e5	10.6	6.1	1.10	bd
4	200306R2_4	50.0	1.23	NO	33.52	1.000	4.56e5	8.98e5	48.9	-2.2	1.02	dd
5	200306R2_5	200	1.22	NO	33.52	1.001	1.87e6	9.40e5	192	-4.1	0.996	bd
6	200306R2_6	1500	1.22	NO	33.53	1.001	1.65e7	1.09e6	1460	-2.9	1.01	bd

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

Response Factor: 1.0126
 RRF SD: 0.0619783, Relative SD: 6.12071
 Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.20	NO	33.66	1.000	9.19e3	7.80e5	1.16	-6.9	0.943	db
2	200306R2_2	2.50	1.27	NO	33.63	1.000	2.08e4	7.71e5	2.66	6.4	1.08	db
3	200306R2_3	10.0	1.18	NO	33.64	1.000	7.95e4	7.22e5	10.9	8.7	1.10	db
4	200306R2_4	50.0	1.22	NO	33.64	1.000	4.93e5	1.01e6	48.1	-3.7	0.975	db
5	200306R2_5	200	1.22	NO	33.64	1.001	2.10e6	1.05e6	196	-1.8	0.994	db
6	200306R2_6	1500	1.22	NO	33.65	1.000	1.83e7	1.24e6	1460	-2.7	0.986	db

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

Response Factor: 1.092

RRF SD: 0.0522909, Relative SD: 4.78856

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.20	NO	34.23	1.001	9.49e3	7.13e5	1.22	-2.5	1.07	bb
2	200306R2_2	2.50	1.18	NO	34.19	1.000	2.08e4	7.13e5	2.68	7.1	1.17	bb
3	200306R2_3	10.0	1.21	NO	34.21	1.001	7.81e4	6.81e5	10.5	5.1	1.15	bb
4	200306R2_4	50.0	1.21	NO	34.21	1.001	4.95e5	9.38e5	48.3	-3.4	1.05	bb
5	200306R2_5	200	1.22	NO	34.20	1.000	2.06e6	9.84e5	192	-3.9	1.05	bb
6	200306R2_6	1500	1.22	NO	34.21	1.000	1.82e7	1.14e6	1460	-2.4	1.07	bb

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

Response Factor: 1.02678

RRF SD: 0.0447492, Relative SD: 4.35823

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.27	NO	35.11	1.001	7.40e3	5.96e5	1.21	-3.3	0.993	bb
2	200306R2_2	2.50	1.24	NO	35.07	1.000	1.61e4	6.11e5	2.57	2.9	1.06	bb
3	200306R2_3	10.0	1.24	NO	35.08	1.000	6.28e4	5.68e5	10.8	7.6	1.10	bd
4	200306R2_4	50.0	1.25	NO	35.08	1.000	3.95e5	7.83e5	49.1	-1.8	1.01	MM
5	200306R2_5	200	1.23	NO	35.08	1.001	1.63e6	8.17e5	195	-2.7	0.999	bb
6	200306R2_6	1500	1.23	NO	35.10	1.000	1.48e7	9.86e5	1460	-2.7	0.999	bb

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

Response Factor: 1.04827

RRF SD: 0.0494086, Relative SD: 4.71334

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	1.07	NO	36.81	1.000	6.78e3	5.13e5	1.26	0.8	1.06	bb
2	200306R2_2	2.50	0.98	NO	36.78	1.000	1.55e4	5.54e5	2.67	6.7	1.12	bb

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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	200306R2_3	10.0	1.01	NO	36.79	1.000	5.42e4	4.96e5	10.4	4.2	1.09	bb
4	200306R2_4	50.0	1.00	NO	36.79	1.000	3.53e5	7.08e5	47.5	-5.0	0.996	bb
5	200306R2_5	200	1.00	NO	36.79	1.000	1.46e6	7.21e5	193	-3.6	1.01	bb
6	200306R2_6	1500	1.01	NO	36.80	1.000	1.31e7	8.61e5	1450	-3.2	1.02	bb

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

Response Factor: 1.2099

RRF SD: 0.0633946, Relative SD: 5.23967

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	1.25	0.94	NO	38.85	1.001	4.87e3	3.35e5	1.20	-3.8	1.16	bb
2	200306R2_2	2.50	0.98	NO	38.82	1.000	1.18e4	3.60e5	2.72	8.8	1.32	bb
3	200306R2_3	10.0	0.98	NO	38.82	1.000	4.25e4	3.38e5	10.4	4.1	1.26	bb
4	200306R2_4	50.0	1.00	NO	38.82	1.000	2.73e5	4.70e5	48.0	-4.0	1.16	bb
5	200306R2_5	200	1.01	NO	38.82	1.000	1.18e6	4.99e5	195	-2.3	1.18	bb
6	200306R2_6	1500	1.01	NO	38.83	1.000	1.06e7	6.02e5	1460	-2.8	1.18	bb

Compound name: OCDF

Response Factor: 0.946773

RRF SD: 0.0474682, Relative SD: 5.01368

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	2.50	0.83	NO	41.43	1.000	9.98e3	8.40e5	2.51	0.4	0.950	MM
2	200306R2_2	5.00	0.93	NO	41.40	1.000	2.36e4	9.23e5	5.39	7.8	1.02	bb
3	200306R2_3	20.0	0.89	NO	41.40	1.000	8.67e4	8.82e5	20.8	3.9	0.983	bb
4	200306R2_4	100	0.88	NO	41.41	1.000	5.44e5	1.20e6	95.4	-4.6	0.904	bb
5	200306R2_5	400	0.88	NO	41.40	1.000	2.61e6	1.42e6	387	-3.2	0.917	bb
6	200306R2_6	3000	0.89	NO	41.42	1.000	2.37e7	1.75e6	2870	-4.3	0.906	bb

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

Response Factor: 1.18423

RRF SD: 0.101442, Relative SD: 8.56612

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.79	NO	25.80	1.028	1.02e6	7.81e5	110	10.3	1.31	MM
2	200306R2_2	100	0.78	NO	25.76	1.028	1.04e6	9.79e5	89.6	-10.4	1.06	bb
3	200306R2_3	100	0.79	NO	25.78	1.028	9.83e5	9.27e5	89.5	-10.5	1.06	bb
4	200306R2_4	100	0.78	NO	25.78	1.028	1.15e6	9.40e5	103	3.3	1.22	bb
5	200306R2_5	100	0.78	NO	25.76	1.028	1.30e6	1.07e6	102	2.0	1.21	bb
6	200306R2_6	100	0.79	NO	25.76	1.028	1.34e6	1.07e6	105	5.2	1.25	bb

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

Response Factor: 0.864397

RRF SD: 0.123368, Relative SD: 14.2722

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.64	NO	30.99	1.235	7.13e5	7.81e5	106	5.7	0.914	bb
2	200306R2_2	100	0.63	NO	30.96	1.235	6.98e5	9.79e5	82.5	-17.5	0.713	bb
3	200306R2_3	100	0.64	NO	30.97	1.235	6.63e5	9.27e5	82.7	-17.3	0.715	bb
4	200306R2_4	100	0.62	NO	30.97	1.235	9.00e5	9.40e5	111	10.8	0.958	bb
5	200306R2_5	100	0.64	NO	30.97	1.236	9.49e5	1.07e6	102	2.3	0.884	bb
6	200306R2_6	100	0.63	NO	30.97	1.236	1.08e6	1.07e6	116	16.1	1.00	bb

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

Response Factor: 0.753912

RRF SD: 0.0956829, Relative SD: 12.6915

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.25	NO	34.38	1.014	5.37e5	6.43e5	111	10.7	0.835	bd
2	200306R2_2	100	1.28	NO	34.35	1.014	5.23e5	7.96e5	87.2	-12.8	0.657	bd

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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	200306R2_3	100	1.28	NO	34.36	1.014	4.95e5	7.60e5	86.4	-13.6	0.652	bd
4	200306R2_4	100	1.27	NO	34.36	1.014	6.79e5	9.06e5	99.5	-0.5	0.750	bd
5	200306R2_5	100	1.26	NO	34.36	1.014	6.81e5	9.24e5	97.8	-2.2	0.738	bd
6	200306R2_6	100	1.28	NO	34.37	1.014	8.39e5	9.40e5	118	18.4	0.892	bd

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

Response Factor: 0.925405

RRF SD: 0.118798, Relative SD: 12.8375

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.25	NO	34.49	1.017	6.23e5	6.43e5	105	4.6	0.968	db
2	200306R2_2	100	1.26	NO	34.46	1.017	6.45e5	7.96e5	87.5	-12.5	0.810	db
3	200306R2_3	100	1.25	NO	34.47	1.017	6.06e5	7.60e5	86.2	-13.8	0.797	db
4	200306R2_4	100	1.28	NO	34.47	1.017	8.29e5	9.06e5	98.9	-1.1	0.916	db
5	200306R2_5	100	1.28	NO	34.46	1.017	8.67e5	9.24e5	101	1.4	0.939	db
6	200306R2_6	100	1.27	NO	34.47	1.017	1.05e6	9.40e5	121	21.3	1.12	db

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

Response Factor: 0.829419

RRF SD: 0.100271, Relative SD: 12.0893

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.30	NO	34.75	1.025	5.57e5	6.43e5	104	4.5	0.867	bd
2	200306R2_2	100	1.23	NO	34.72	1.025	5.80e5	7.96e5	87.8	-12.2	0.728	bb
3	200306R2_3	100	1.24	NO	34.73	1.025	5.46e5	7.60e5	86.6	-13.4	0.718	bb
4	200306R2_4	100	1.23	NO	34.73	1.025	7.47e5	9.06e5	99.4	-0.6	0.825	bb
5	200306R2_5	100	1.19	NO	34.73	1.025	7.83e5	9.24e5	102	2.3	0.848	bb
6	200306R2_6	100	1.25	NO	34.74	1.025	9.31e5	9.40e5	119	19.4	0.990	bb

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

Response Factor: 0.598232

RRF SD: 0.0717306, Relative SD: 11.9904

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.03	NO	38.21	1.127	3.74e5	6.43e5	97.3	-2.7	0.582	bb
2	200306R2_2	100	1.06	NO	38.17	1.127	4.34e5	7.96e5	91.1	-8.9	0.545	bd
3	200306R2_3	100	1.06	NO	38.17	1.126	3.84e5	7.60e5	84.5	-15.5	0.506	bb
4	200306R2_4	100	1.05	NO	38.19	1.127	5.52e5	9.06e5	102	1.9	0.610	bb
5	200306R2_5	100	1.11	NO	38.18	1.127	5.89e5	9.24e5	107	6.6	0.638	bd
6	200306R2_6	100	1.06	NO	38.19	1.127	6.67e5	9.40e5	119	18.6	0.709	bb

Compound name: 13C-OCDD

Response Factor: 0.571169

RRF SD: 0.108174, Relative SD: 18.9391

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	200	0.90	NO	41.23	1.216	7.05e5	6.43e5	192	-4.0	0.548	bd
2	200306R2_2	200	0.90	NO	41.21	1.216	7.62e5	7.96e5	168	-16.2	0.479	bb
3	200306R2_3	200	0.94	NO	41.22	1.216	7.16e5	7.60e5	165	-17.5	0.471	bd
4	200306R2_4	200	0.85	NO	41.21	1.216	9.75e5	9.06e5	189	-5.7	0.538	bb
5	200306R2_5	200	0.89	NO	41.21	1.216	1.17e6	9.24e5	222	11.0	0.634	bd
6	200306R2_6	200	0.90	NO	41.23	1.217	1.42e6	9.40e5	265	32.5	0.757	bd

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

Response Factor: 1.08928

RRF SD: 0.0987678, Relative SD: 9.06725

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.79	NO	24.84	0.990	1.43e6	1.19e6	111	11.0	1.21	bb
2	200306R2_2	100	0.79	NO	24.79	0.989	1.45e6	1.48e6	89.7	-10.3	0.977	bb

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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	200306R2_3	100	0.77	NO	24.81	0.989	1.38e6	1.43e6	88.3	-11.7	0.962	bb
4	200306R2_4	100	0.78	NO	24.82	0.990	1.46e6	1.27e6	106	5.6	1.15	bb
5	200306R2_5	100	0.78	NO	24.81	0.990	1.74e6	1.56e6	103	2.7	1.12	bb
6	200306R2_6	100	0.78	NO	24.79	0.989	1.81e6	1.62e6	103	2.7	1.12	bb

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

Response Factor: 0.876347

RRF SD: 0.137914, Relative SD: 15.7373

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.55	NO	29.66	1.182	1.13e6	1.19e6	109	8.6	0.952	bb
2	200306R2_2	100	1.60	NO	29.63	1.182	1.07e6	1.48e6	82.5	-17.5	0.723	bb
3	200306R2_3	100	1.58	NO	29.63	1.182	9.93e5	1.43e6	79.2	-20.8	0.694	bb
4	200306R2_4	100	1.60	NO	29.63	1.181	1.30e6	1.27e6	117	17.2	1.03	bb
5	200306R2_5	100	1.57	NO	29.63	1.182	1.38e6	1.56e6	101	1.2	0.887	bb
6	200306R2_6	100	1.57	NO	29.65	1.183	1.58e6	1.62e6	111	11.3	0.976	bb

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

Response Factor: 0.843553

RRF SD: 0.133299, Relative SD: 15.8021

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	1.57	NO	30.68	1.223	1.05e6	1.19e6	105	4.8	0.884	db
2	200306R2_2	100	1.58	NO	30.64	1.222	1.02e6	1.48e6	81.4	-18.6	0.687	db
3	200306R2_3	100	1.58	NO	30.65	1.222	9.68e5	1.43e6	80.2	-19.8	0.677	db
4	200306R2_4	100	1.60	NO	30.65	1.222	1.27e6	1.27e6	118	18.2	0.997	db
5	200306R2_5	100	1.58	NO	30.65	1.223	1.36e6	1.56e6	103	3.2	0.870	db
6	200306R2_6	100	1.60	NO	30.67	1.224	1.53e6	1.62e6	112	12.2	0.947	db

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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

Response Factor: 1.00027

RRF SD: 0.122541, Relative SD: 12.2508

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.52	NO	33.52	0.988	7.10e5	6.43e5	110	10.3	1.10	bd
2	200306R2_2	100	0.51	NO	33.50	0.989	6.91e5	7.96e5	86.8	-13.2	0.869	bd
3	200306R2_3	100	0.52	NO	33.51	0.989	6.52e5	7.60e5	85.8	-14.2	0.858	bd
4	200306R2_4	100	0.51	NO	33.51	0.989	8.98e5	9.06e5	99.1	-0.9	0.992	bd
5	200306R2_5	100	0.52	NO	33.50	0.989	9.40e5	9.24e5	102	1.7	1.02	bd
6	200306R2_6	100	0.52	NO	33.51	0.989	1.09e6	9.40e5	116	16.3	1.16	bd

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

Response Factor: 1.1178

RRF SD: 0.141321, Relative SD: 12.6428

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.51	NO	33.65	0.992	7.80e5	6.43e5	108	8.5	1.21	db
2	200306R2_2	100	0.51	NO	33.62	0.992	7.71e5	7.96e5	86.6	-13.4	0.969	db
3	200306R2_3	100	0.53	NO	33.63	0.992	7.22e5	7.60e5	85.0	-15.0	0.951	db
4	200306R2_4	100	0.52	NO	33.63	0.992	1.01e6	9.06e5	99.9	-0.1	1.12	db
5	200306R2_5	100	0.53	NO	33.61	0.992	1.05e6	9.24e5	102	2.1	1.14	db
6	200306R2_6	100	0.52	NO	33.64	0.993	1.24e6	9.40e5	118	17.9	1.32	db

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

Response Factor: 1.03533

RRF SD: 0.12301, Relative SD: 11.8812

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.52	NO	34.21	1.009	7.13e5	6.43e5	107	7.1	1.11	bb
2	200306R2_2	100	0.51	NO	34.18	1.009	7.13e5	7.96e5	86.5	-13.5	0.896	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
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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	200306R2_3	100	0.52	NO	34.19	1.009	6.81e5	7.60e5	86.6	-13.4	0.896	bb
4	200306R2_4	100	0.53	NO	34.19	1.009	9.38e5	9.06e5	100	0.1	1.04	MM
5	200306R2_5	100	0.52	NO	34.19	1.009	9.84e5	9.24e5	103	2.9	1.07	bb
6	200306R2_6	100	0.52	NO	34.20	1.009	1.14e6	9.40e5	117	16.9	1.21	bb

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

Response Factor: 0.873112

RRF SD: 0.110234, Relative SD: 12.6254

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.51	NO	35.08	1.035	5.96e5	6.43e5	106	6.1	0.926	bb
2	200306R2_2	100	0.51	NO	35.06	1.035	6.11e5	7.96e5	87.9	-12.1	0.768	bb
3	200306R2_3	100	0.52	NO	35.07	1.035	5.68e5	7.60e5	85.6	-14.4	0.747	bb
4	200306R2_4	100	0.52	NO	35.07	1.035	7.83e5	9.06e5	99.0	-1.0	0.864	bb
5	200306R2_5	100	0.51	NO	35.06	1.035	8.17e5	9.24e5	101	1.3	0.884	bb
6	200306R2_6	100	0.53	NO	35.08	1.035	9.86e5	9.40e5	120	20.1	1.05	bb

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

Response Factor: 0.770799

RRF SD: 0.0912069, Relative SD: 11.8328

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.44	NO	36.80	1.085	5.13e5	6.43e5	104	3.5	0.798	bb
2	200306R2_2	100	0.46	NO	36.77	1.085	5.54e5	7.96e5	90.3	-9.7	0.696	bb
3	200306R2_3	100	0.45	NO	36.78	1.085	4.96e5	7.60e5	84.6	-15.4	0.652	bb
4	200306R2_4	100	0.46	NO	36.78	1.085	7.08e5	9.06e5	101	1.4	0.782	bd
5	200306R2_5	100	0.45	NO	36.78	1.086	7.21e5	9.24e5	101	1.3	0.781	bb
6	200306R2_6	100	0.45	NO	36.79	1.086	8.61e5	9.40e5	119	18.8	0.916	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.519283

RRF SD: 0.0710328, Relative SD: 13.679

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.45	NO	38.83	1.145	3.35e5	6.43e5	100	0.2	0.521	bd
2	200306R2_2	100	0.45	NO	38.80	1.145	3.60e5	7.96e5	87.0	-13.0	0.452	bd
3	200306R2_3	100	0.44	NO	38.81	1.145	3.38e5	7.60e5	85.6	-14.4	0.444	bd
4	200306R2_4	100	0.45	NO	38.81	1.145	4.70e5	9.06e5	99.9	-0.1	0.519	bb
5	200306R2_5	100	0.44	NO	38.81	1.145	4.99e5	9.24e5	104	3.9	0.540	bb
6	200306R2_6	100	0.45	NO	38.82	1.145	6.02e5	9.40e5	123	23.3	0.640	bb

Compound name: 13C-OCDF

Response Factor: 0.696311

RRF SD: 0.133796, Relative SD: 19.215

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	200	0.88	NO	41.42	1.221	8.40e5	6.43e5	188	-6.2	0.653	bb
2	200306R2_2	200	0.90	NO	41.38	1.221	9.23e5	7.96e5	167	-16.7	0.580	bb
3	200306R2_3	200	0.86	NO	41.39	1.221	8.82e5	7.60e5	167	-16.6	0.581	bb
4	200306R2_4	200	0.89	NO	41.40	1.222	1.20e6	9.06e5	191	-4.6	0.664	bb
5	200306R2_5	200	0.89	NO	41.39	1.222	1.42e6	9.24e5	221	10.7	0.771	bb
6	200306R2_6	200	0.89	NO	41.41	1.222	1.75e6	9.40e5	267	33.4	0.929	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.17455

RRF SD: 0.0840795, Relative SD: 7.15847

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	0.250			25.84	1.030	2.53e3	7.81e5	0.276	10.3	1.30	bb
2	200306R2_2	0.500			25.78	1.029	5.58e3	9.79e5	0.486	-2.9	1.14	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

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Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	2.00			25.80	1.029	1.94e4	9.27e5	1.78	-11.1	1.04	bb
4	200306R2_4	10.0			25.80	1.029	1.11e5	9.40e5	10.1	0.8	1.18	bb
5	200306R2_5	40.0			25.80	1.029	4.97e5	1.07e6	39.5	-1.4	1.16	bb
6	200306R2_6	200			25.80	1.029	2.63e6	1.07e6	208	4.2	1.22	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.81	NO	25.09	1.000	7.81e5	7.81e5	100	0.0	1.00	bb
2	200306R2_2	100	0.80	NO	25.06	1.000	9.79e5	9.79e5	100	0.0	1.00	bb
3	200306R2_3	100	0.80	NO	25.08	1.000	9.27e5	9.27e5	100	0.0	1.00	bb
4	200306R2_4	100	0.78	NO	25.08	1.000	9.40e5	9.40e5	100	0.0	1.00	bb
5	200306R2_5	100	0.81	NO	25.06	1.000	1.07e6	1.07e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	25.06	1.000	1.07e6	1.07e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.80	NO	23.24	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
2	200306R2_2	100	0.79	NO	23.21	1.000	1.48e6	1.48e6	100	0.0	1.00	bb
3	200306R2_3	100	0.81	NO	23.21	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
4	200306R2_4	100	0.79	NO	23.22	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
5	200306R2_5	100	0.79	NO	23.21	1.000	1.56e6	1.56e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	23.19	1.000	1.62e6	1.62e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

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Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.51	NO	33.91	1.000	6.43e5	6.43e5	100	0.0	1.00	bb
2	200306R2_2	100	0.52	NO	33.88	1.000	7.96e5	7.96e5	100	0.0	1.00	bb
3	200306R2_3	100	0.51	NO	33.89	1.000	7.60e5	7.60e5	100	0.0	1.00	bb
4	200306R2_4	100	0.52	NO	33.89	1.000	9.06e5	9.06e5	100	0.0	1.00	bb
5	200306R2_5	100	0.52	NO	33.88	1.000	9.24e5	9.24e5	100	0.0	1.00	bb
6	200306R2_6	100	0.52	NO	33.89	1.000	9.40e5	9.40e5	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:43:03 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:45:55 Pacific Daylight Time

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

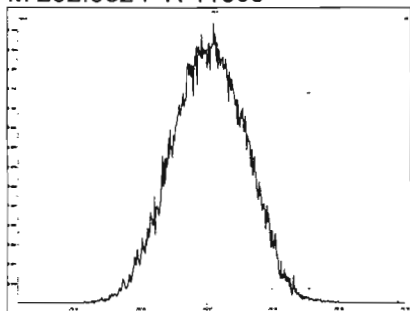
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4	200306R2_4	ST200306R2_4 1613 CS3 19L2305	06-Mar-20	15:32:12
5	200306R2_5	ST200306R2_5 1613 CS4 19L2306	06-Mar-20	16:19:37
6	200306R2_6	ST200306R2_6 1613 CS5 19L2307	06-Mar-20	17:07:03
7	200306R2_7	SOLVENT BLANK	06-Mar-20	17:56:11
8	200306R2_8	SS200306R2_1 1613 SSS 19L2308	06-Mar-20	18:42:29
9	200306R2_9	SOLVENT BLANK	06-Mar-20	19:38:48
10	200306R2_10	2000406-09 PDI-049SC-A-04-05-191015 16.98	06-Mar-20	20:25:03
11	200306R2_11	2000406-10 PDI-049SC-A-05-06-191015 16.09	06-Mar-20	21:12:36
12	200306R2_12	2000406-11 PDI-049SC-A-06-07-191015 13.96	06-Mar-20	22:00:09
13	200306R2_13	2000406-12 PDI-049SC-A-07-08-191015 12.78	06-Mar-20	22:47:33
14	200306R2_14	2000406-13 PDI-059SC-A-11-12-191016 13.47	06-Mar-20	23:35:07
15	200306R2_15	2000406-14 PDI-084SC-A-03-04-191002 18.94	07-Mar-20	00:22:31
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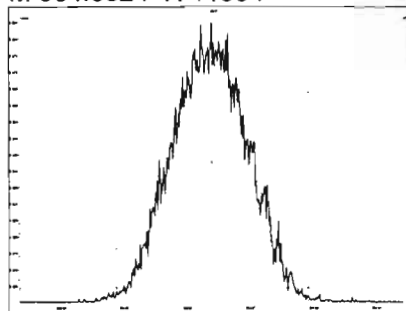
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Printed: Friday, March 06, 2020 13:05:44 Pacific Standard Time

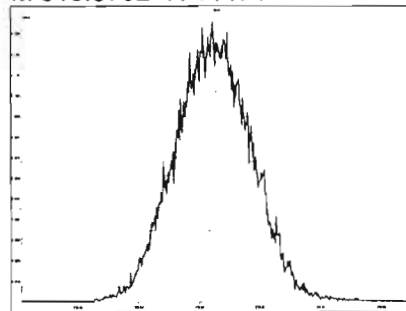
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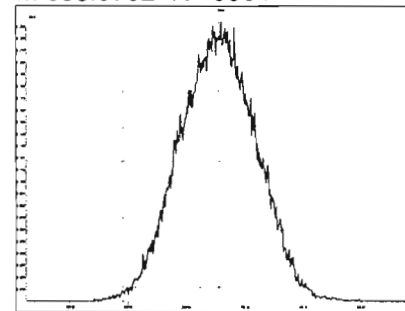
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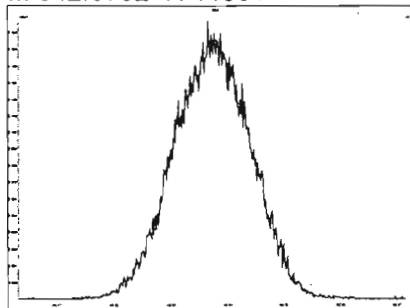
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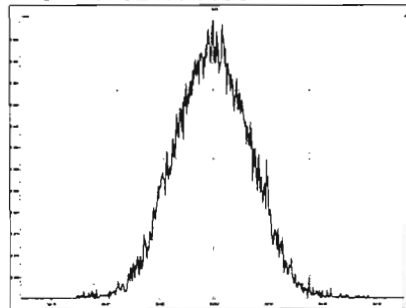
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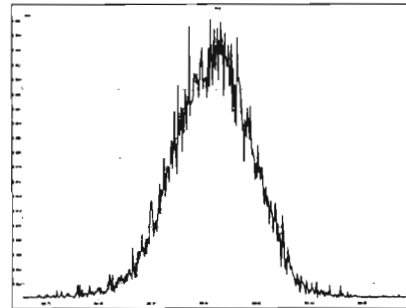
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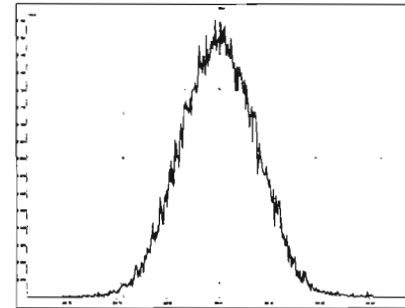
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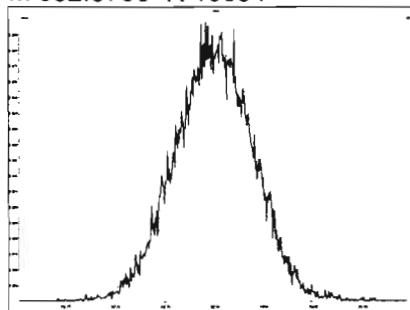
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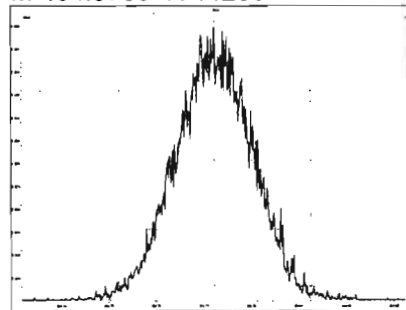
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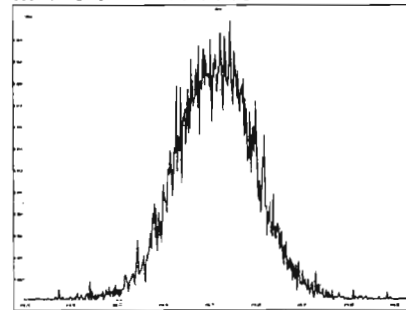
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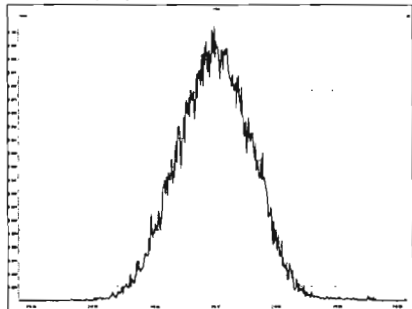
Experiment Calibration Report

MassLynx 4.1 SCN815

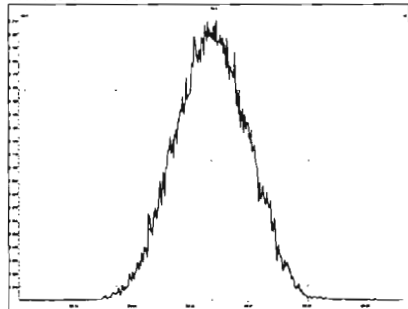
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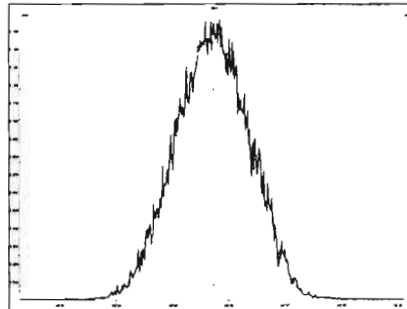
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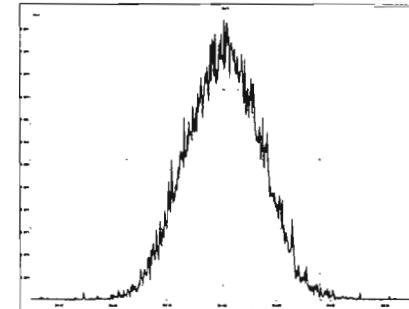
M 330.9792 R 11522



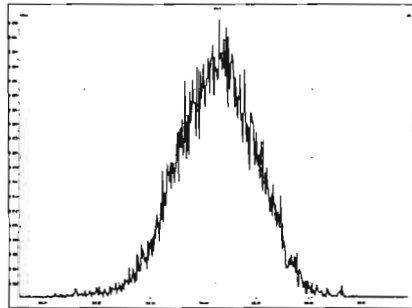
M 342.9792 R 11363



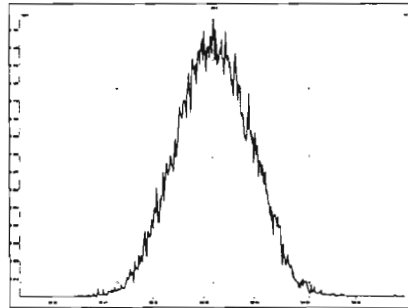
M 354.9792 R 11413



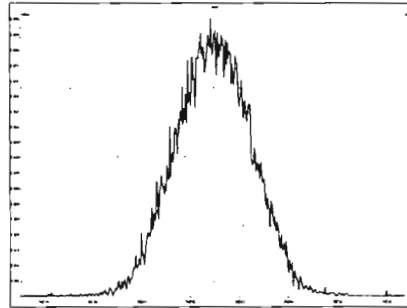
M 366.9792 R 10730



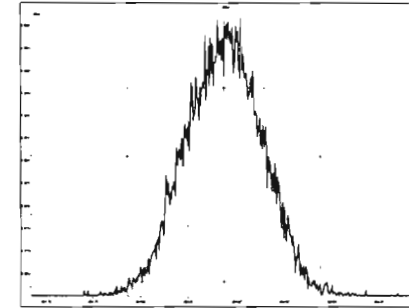
M 380.9760 R 11159



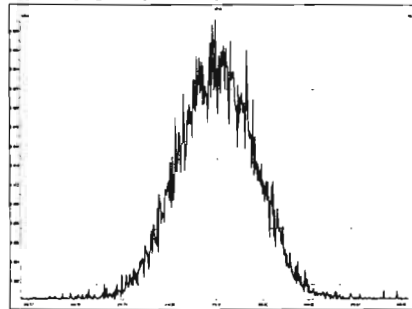
M 392.9760 R 11575



M 404.9760 R 11061



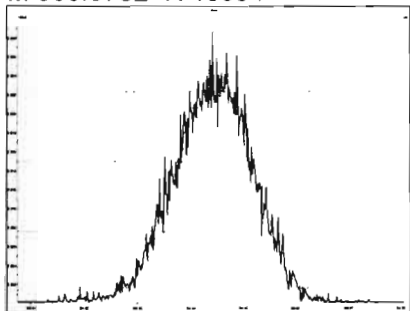
M 416.9760 R 10728



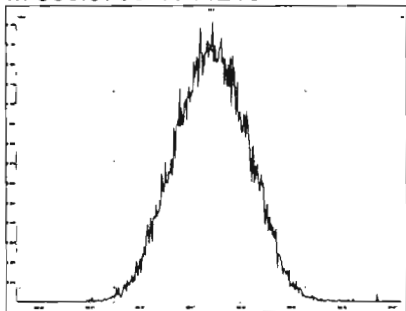
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:07:06 Pacific Standard Time

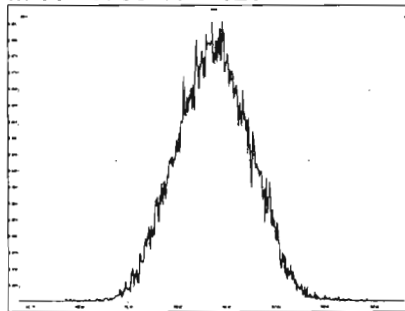
M 366.9792 R 10504



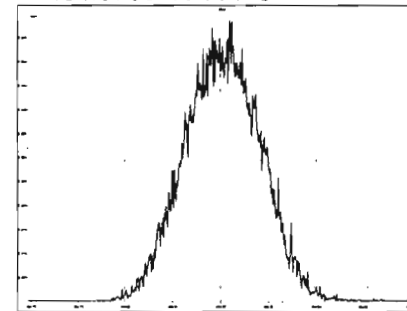
M 380.9760 R 11210



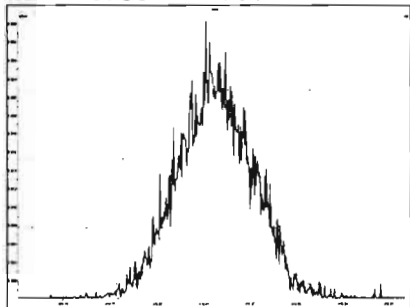
M 392.9760 R 11629



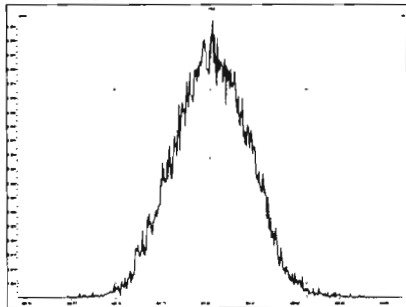
M 404.9760 R 11415



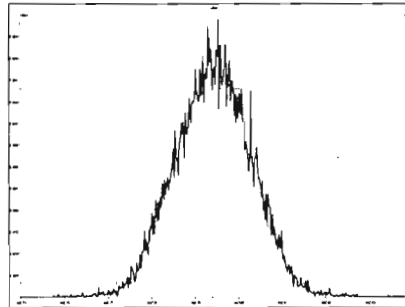
M 416.9760 R 11795



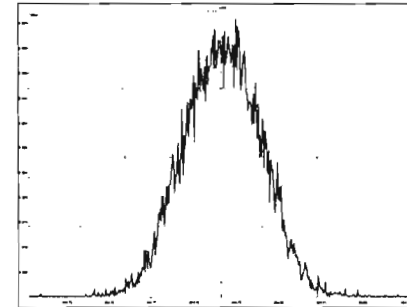
M 430.9728 R 11108



M 442.9728 R 11415



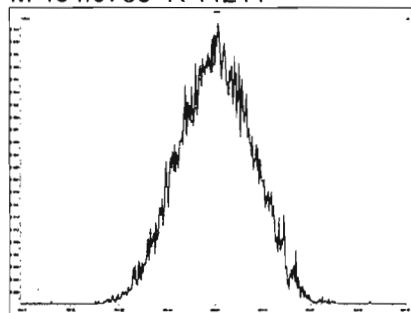
M 454.9728 R 11063



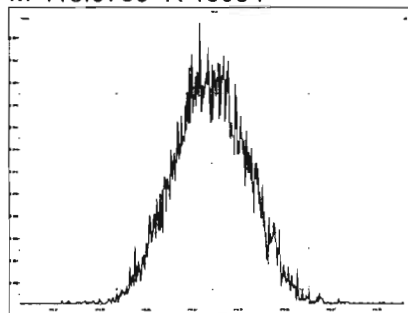
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Printed: Friday, March 06, 2020 13:07:43 Pacific Standard Time

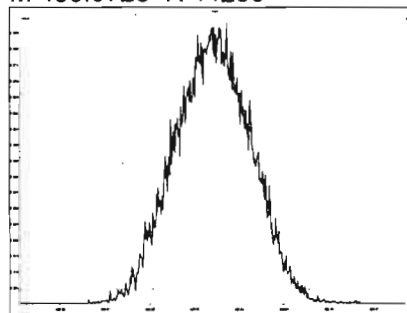
M 404.9760 R 11211



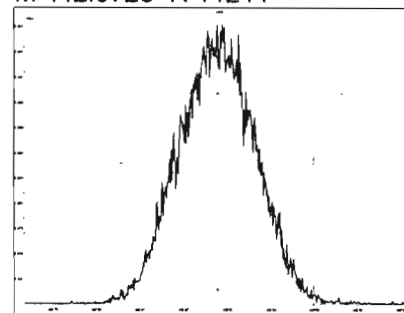
M 416.9760 R 10964



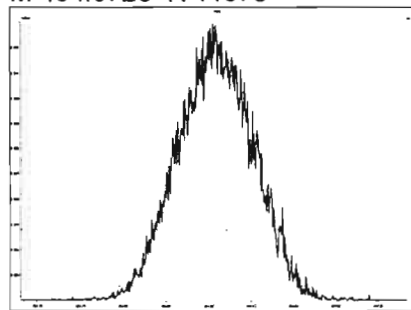
M 430.9728 R 11263



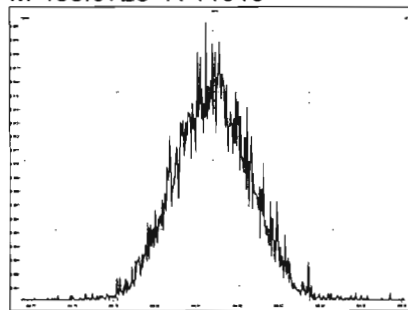
M 442.9728 R 11211



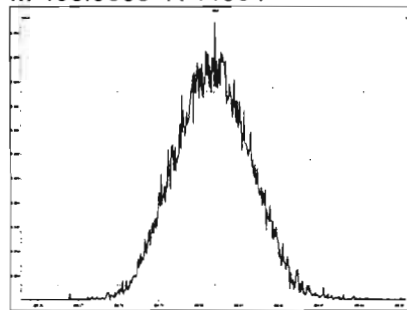
M 454.9728 R 11576



M 466.9728 R 11313



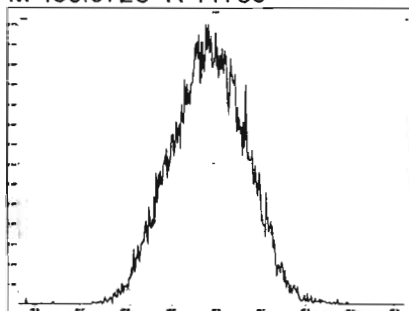
M 480.9696 R 11904



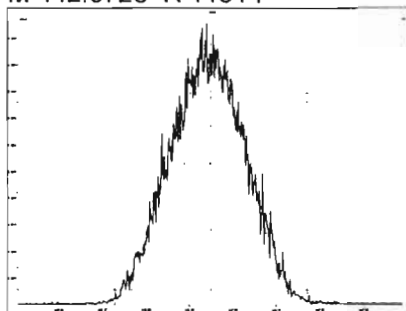
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:08:16 Pacific Standard Time

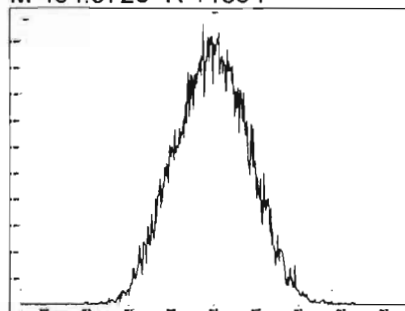
M 430.9728 R 11736



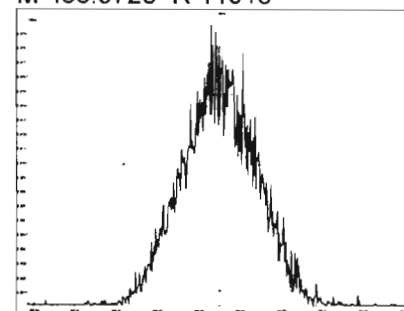
M 442.9728 R 11314



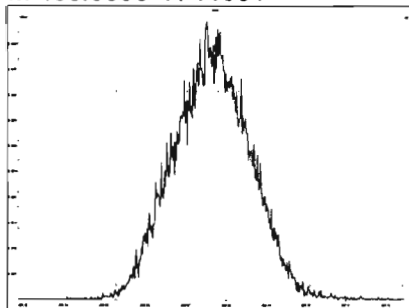
M 454.9728 R 11364



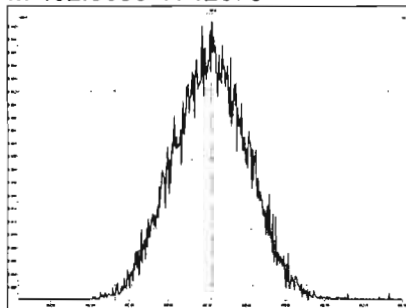
M 466.9728 R 11015



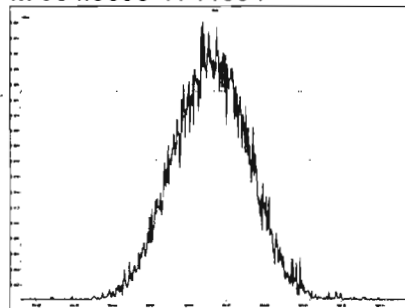
M 480.9696 R 11361



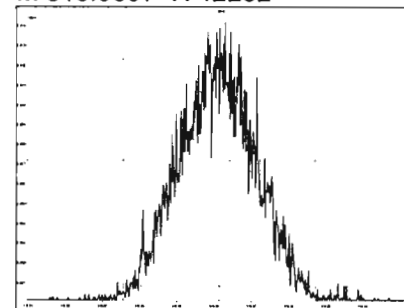
M 492.9696 R 12376



M 504.9696 R 11064



M 516.9697 R 12252



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:48:00 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:48:29 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

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

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.53
2	2 1,2,8,9-TCDD (Last)	26.81
3	3 1,2,4,7,9-PeCDD (First)	28.70
4	4 1,2,3,8,9-PeCDD (Last)	31.38
5	5 1,2,4,6,7,9-HxCDD (First)	32.90
6	6 1,2,3,7,8,9-HxCDD (Last)	34.74
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.21
9	9 1,3,6,8-TCDF (First)	19.52
10	10 1,2,8,9-TCDF (Last)	26.96
11	11 1,3,4,6,8-PeCDF (First)	26.93
12	12 1,2,3,8,9-PeCDF (Last)	31.63
13	13 1,2,3,4,6,8-HxCDF (First)	32.34
14	14 1,2,3,7,8,9-HxCDF (Last)	35.08
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.79
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.82

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:48:00 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:48:29 Pacific Daylight Time

GRB 03/09/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

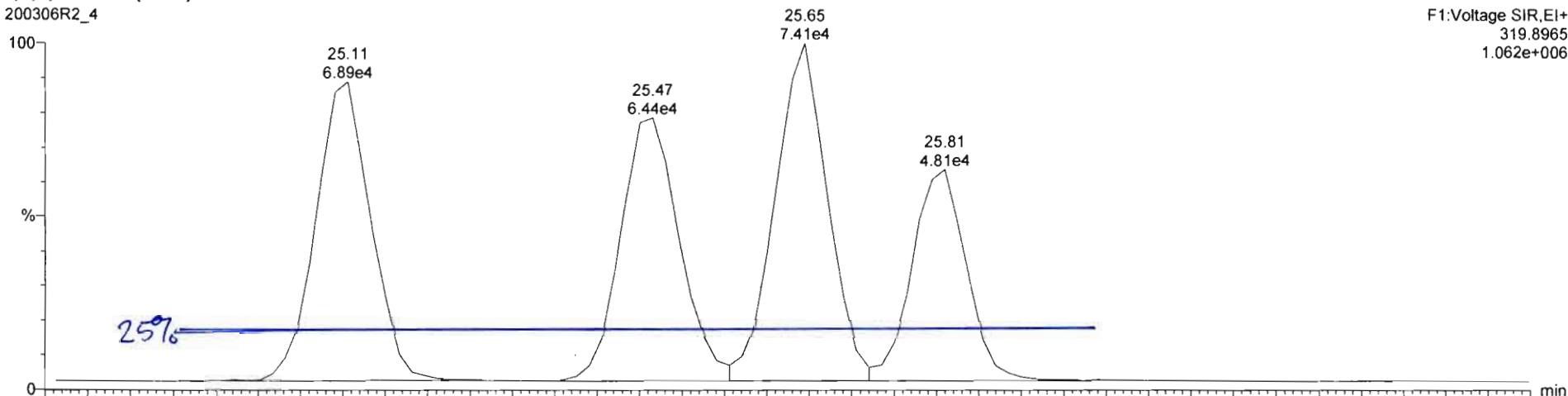
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

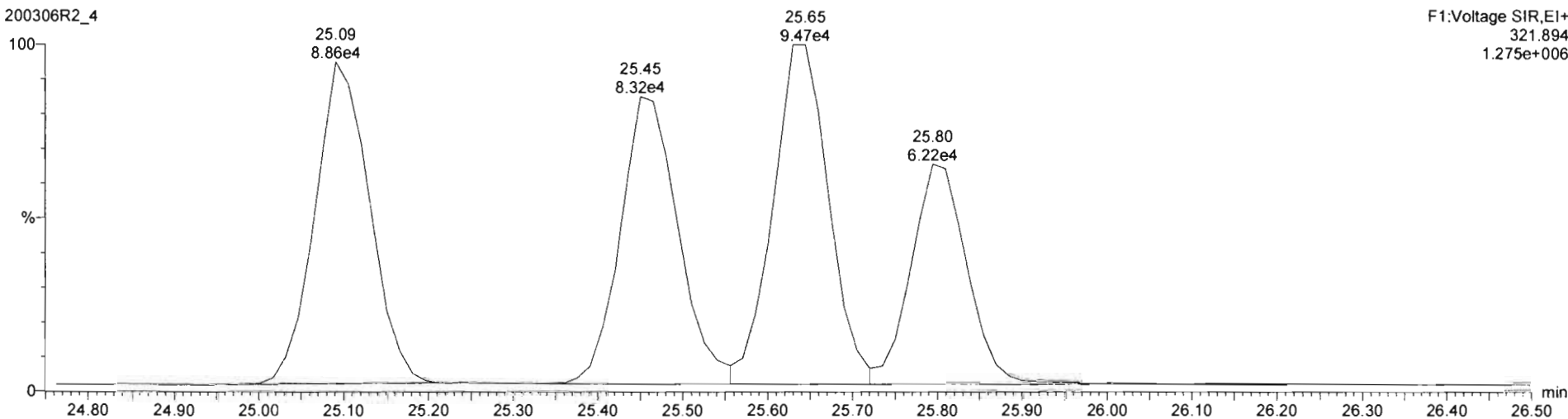
200306R2_4

F1:Voltage SIR,EI+
319.8965
1.062e+006



200306R2_4

F1:Voltage SIR,EI+
321.894
1.275e+006



Dataset: Untitled

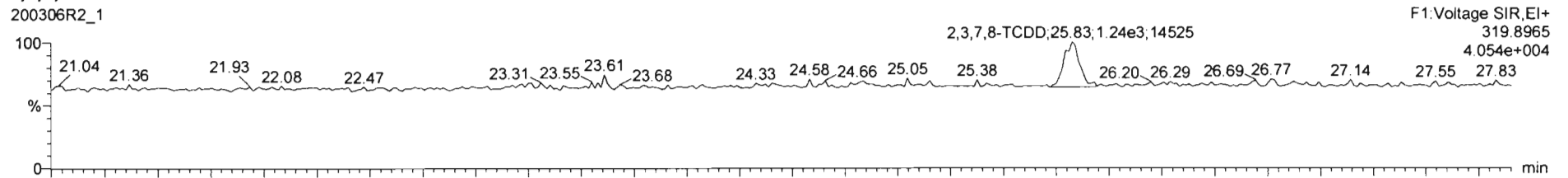
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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

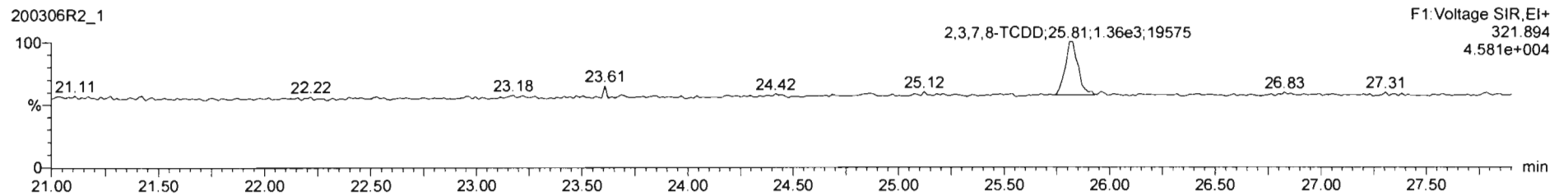
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200306R2_1

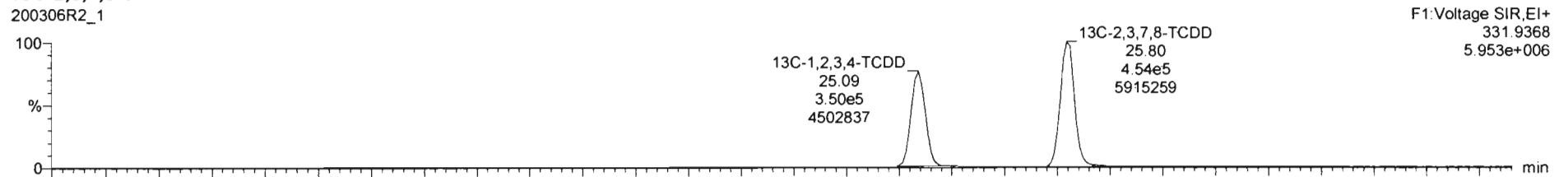


200306R2_1

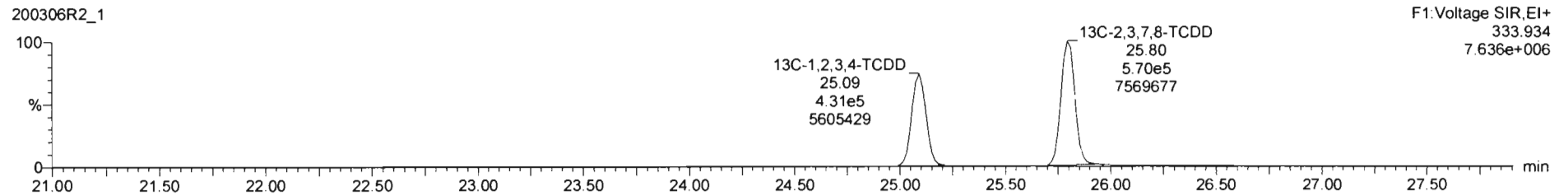


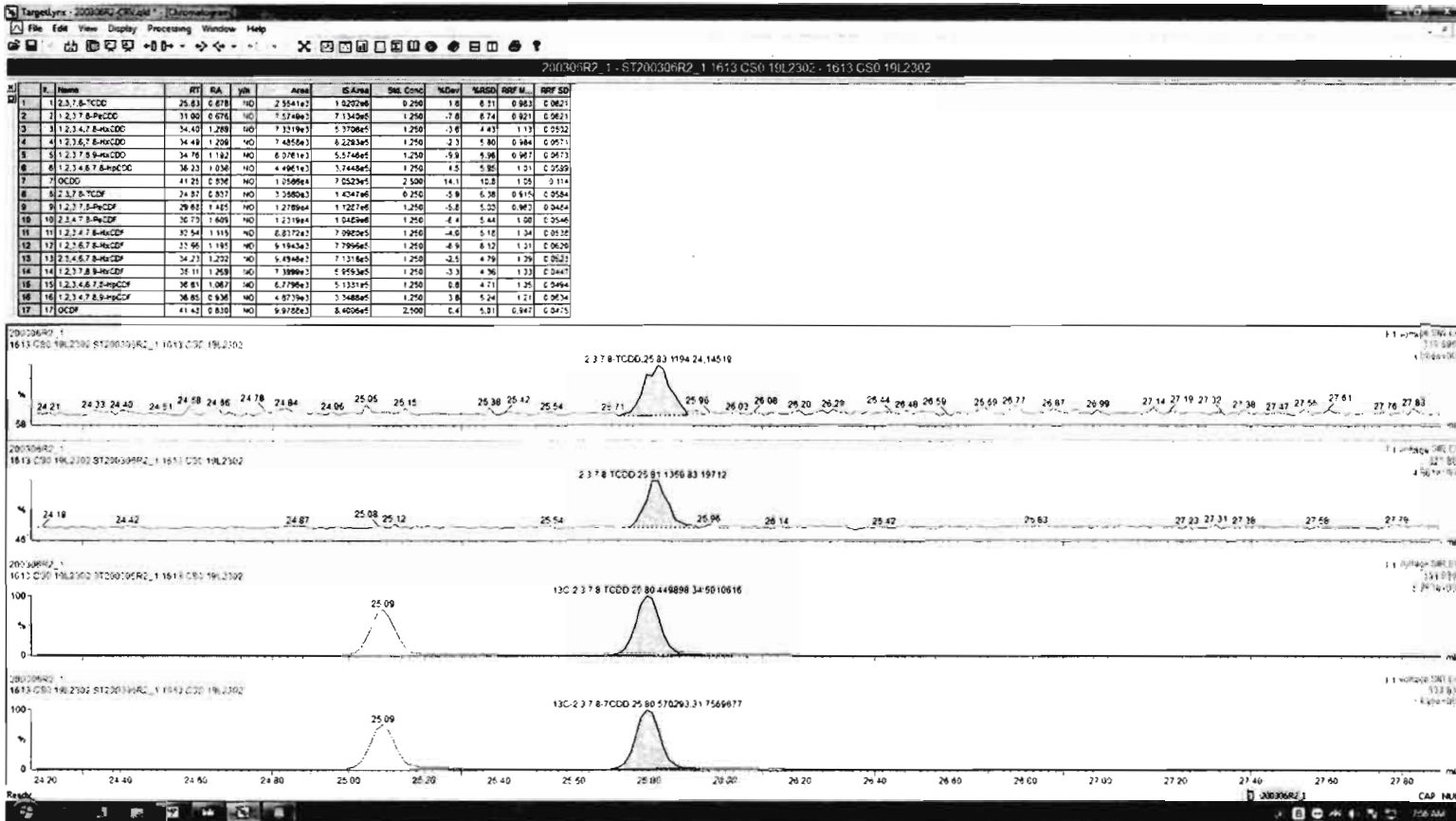
13C-2,3,7,8-TCDD

200306R2_1



200306R2_1





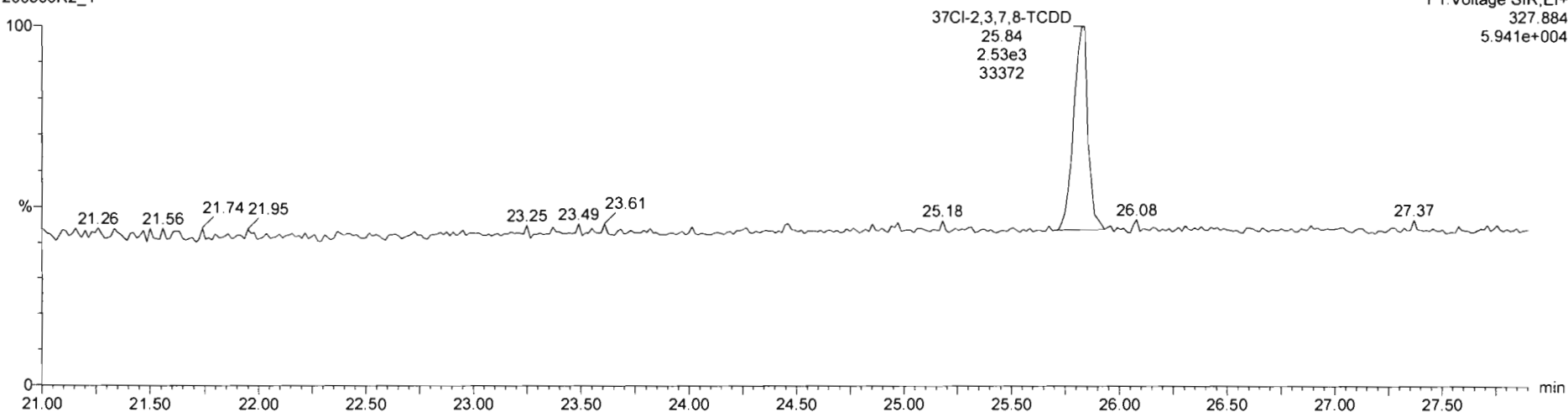
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

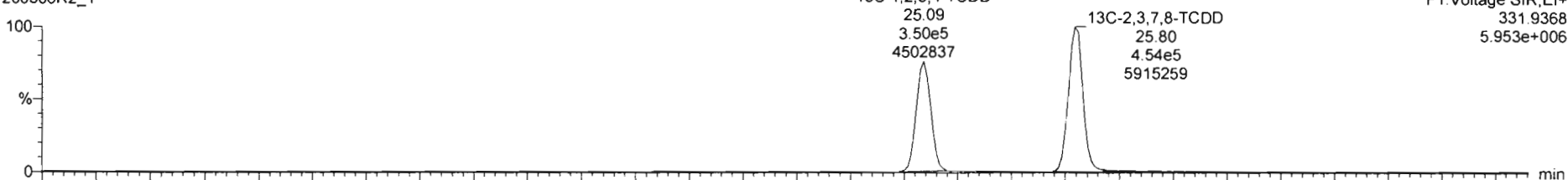
37Cl-2,3,7,8-TCDD

200306R2_1

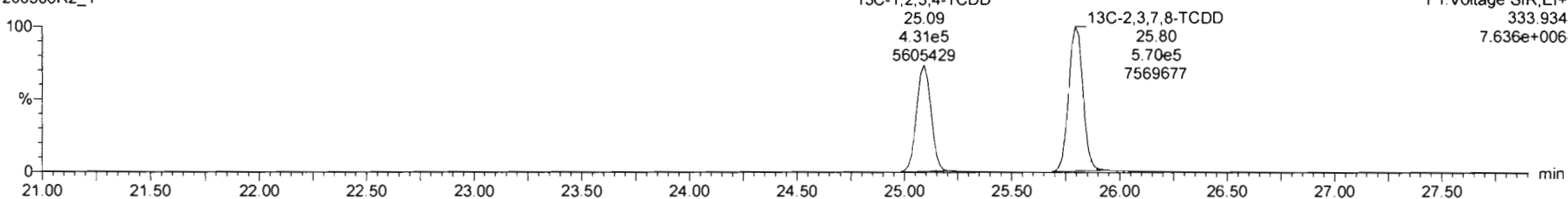


13C-1,2,3,4-TCDD

200306R2_1



200306R2_1



Dataset: Untitled

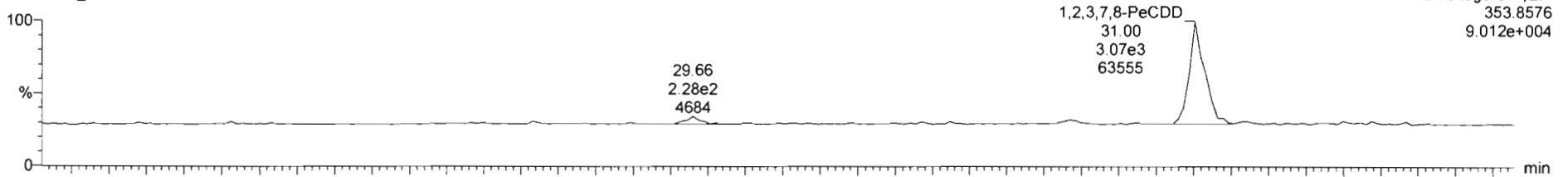
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

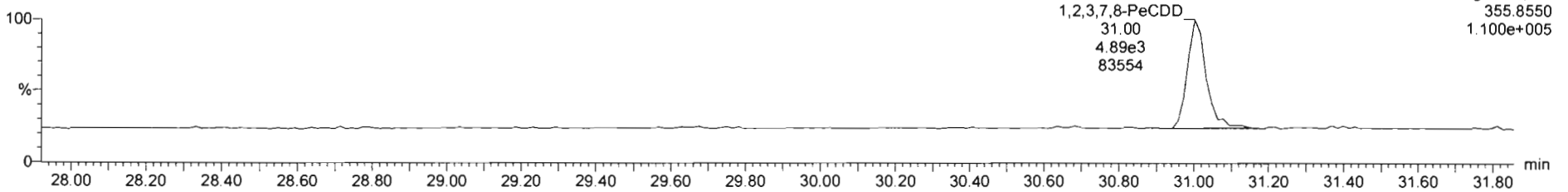
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200306R2_1

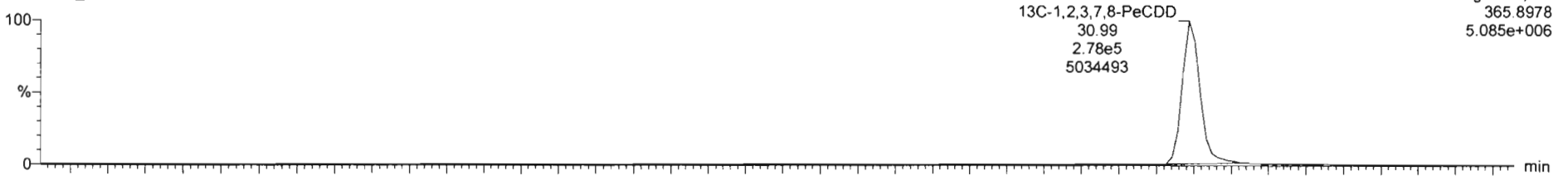


200306R2_1

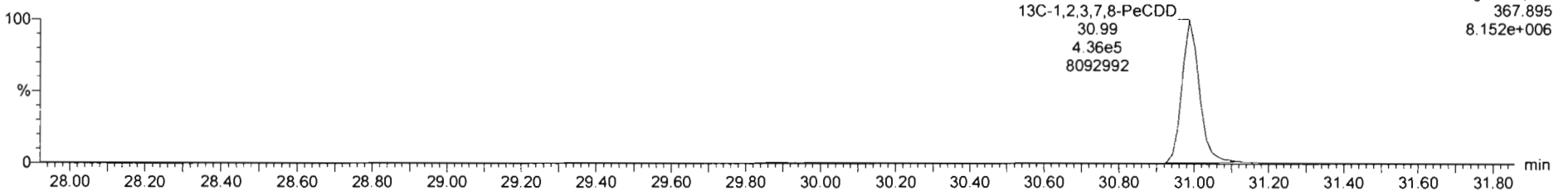


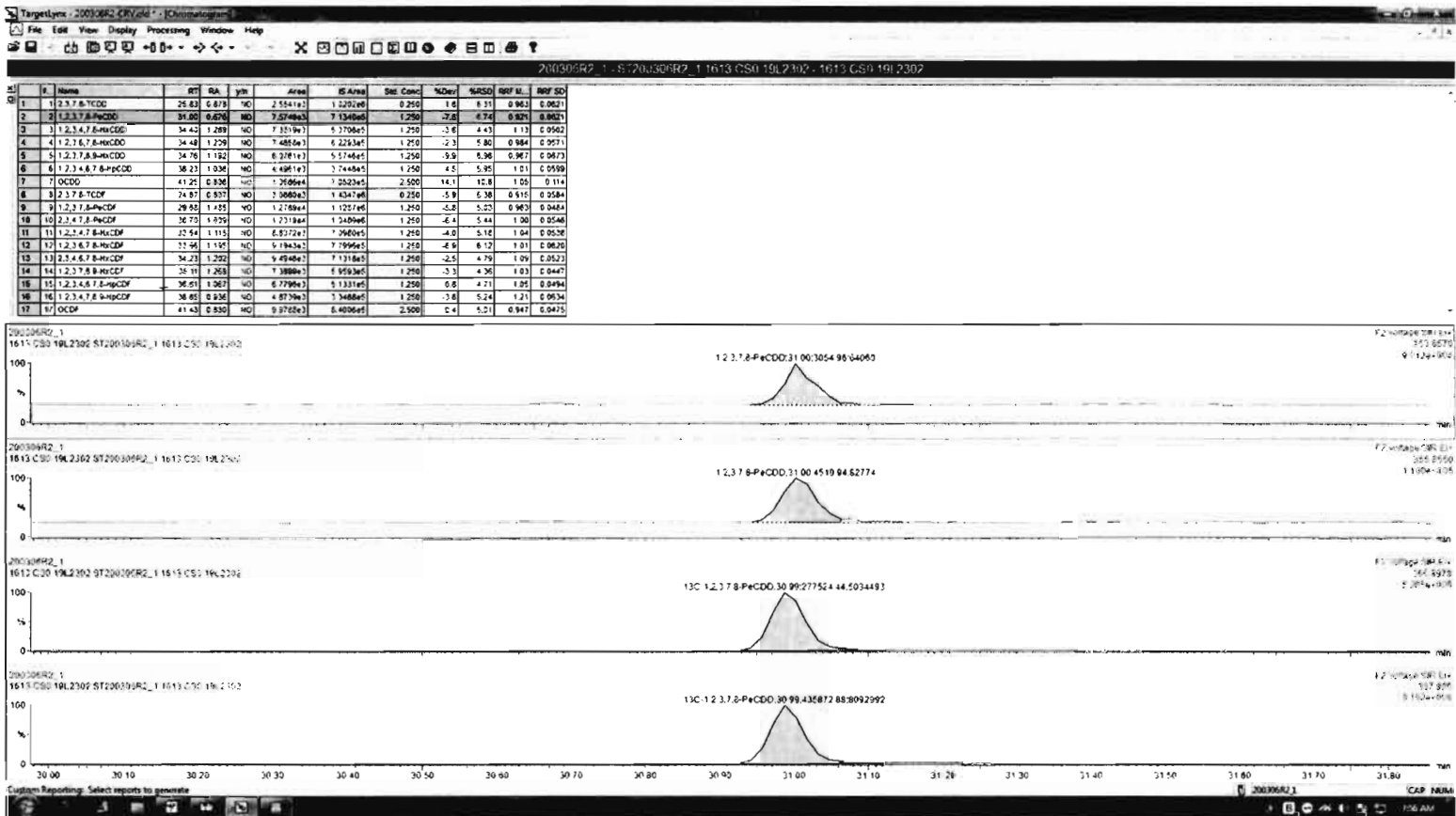
13C-1,2,3,7,8-PeCDD

200306R2_1



200306R2_1





Dataset: Untitled

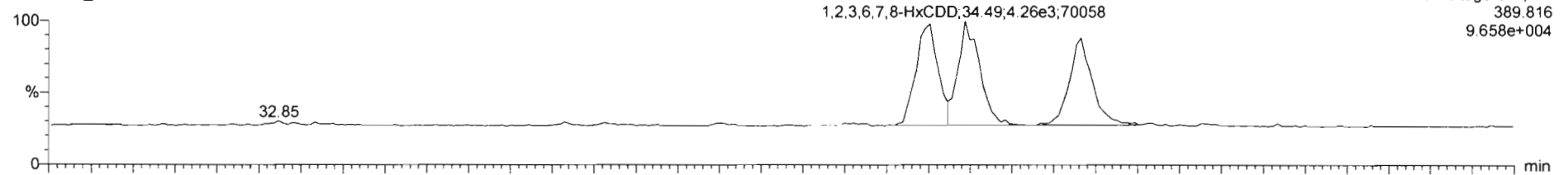
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

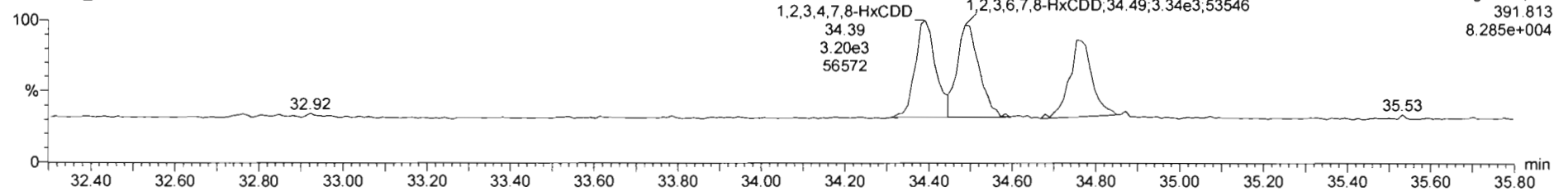
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200306R2_1

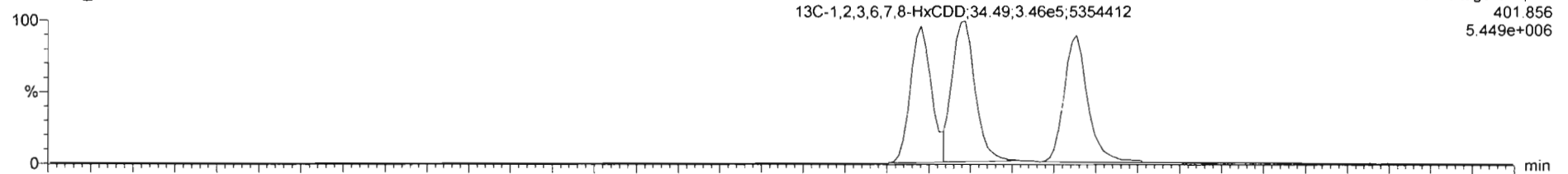


200306R2_1

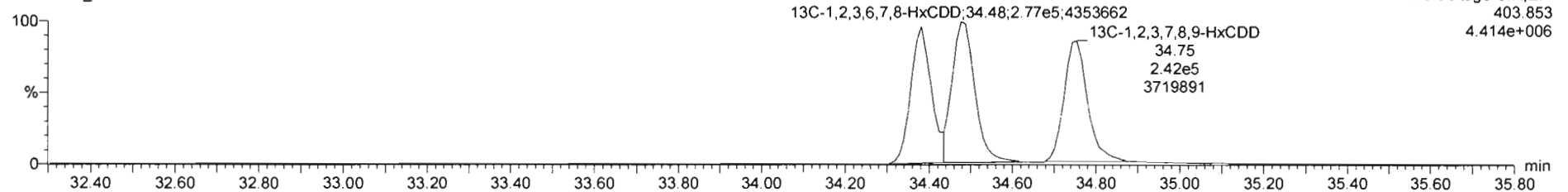


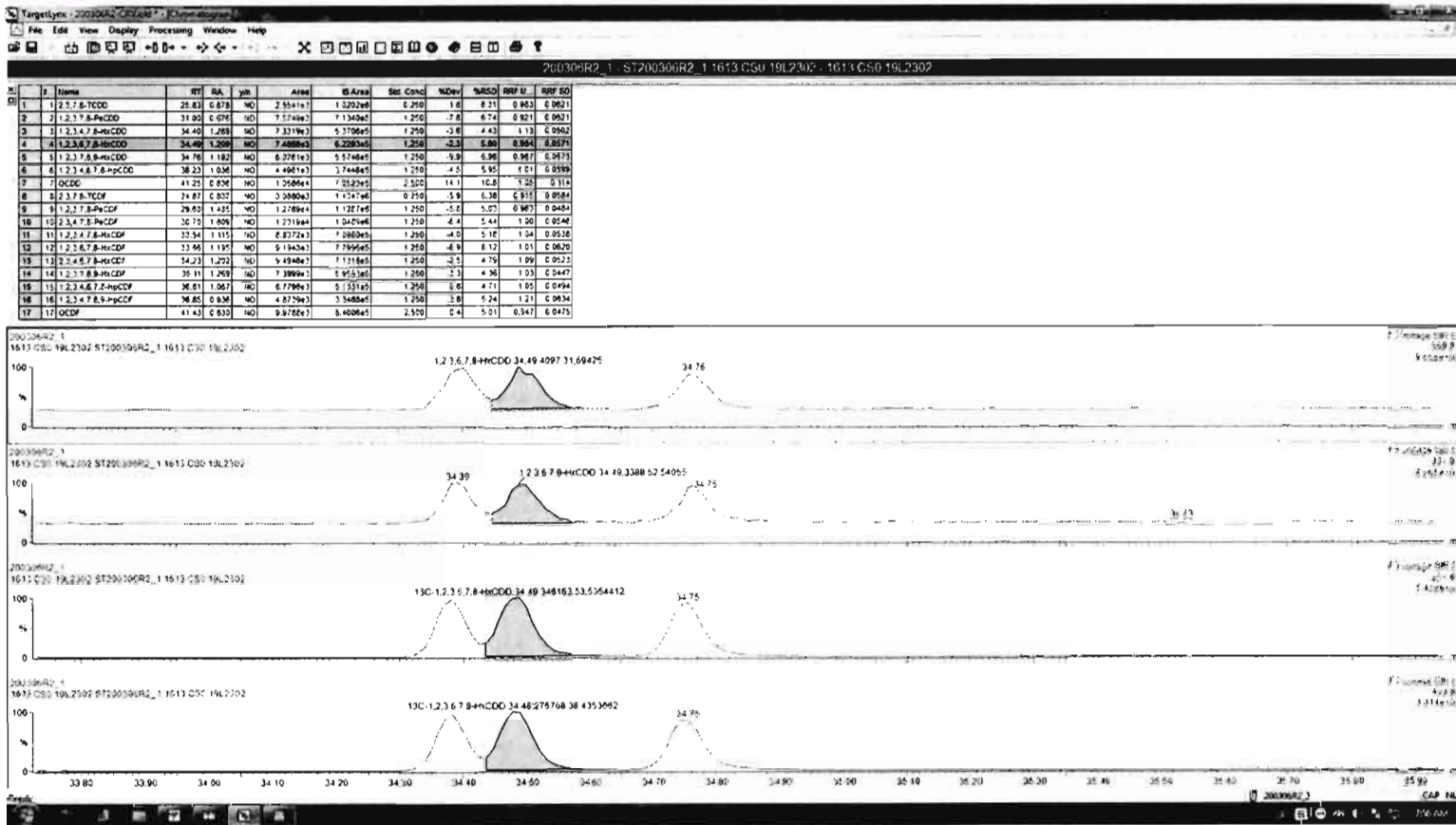
13C-1,2,3,4,7,8-HxCDD

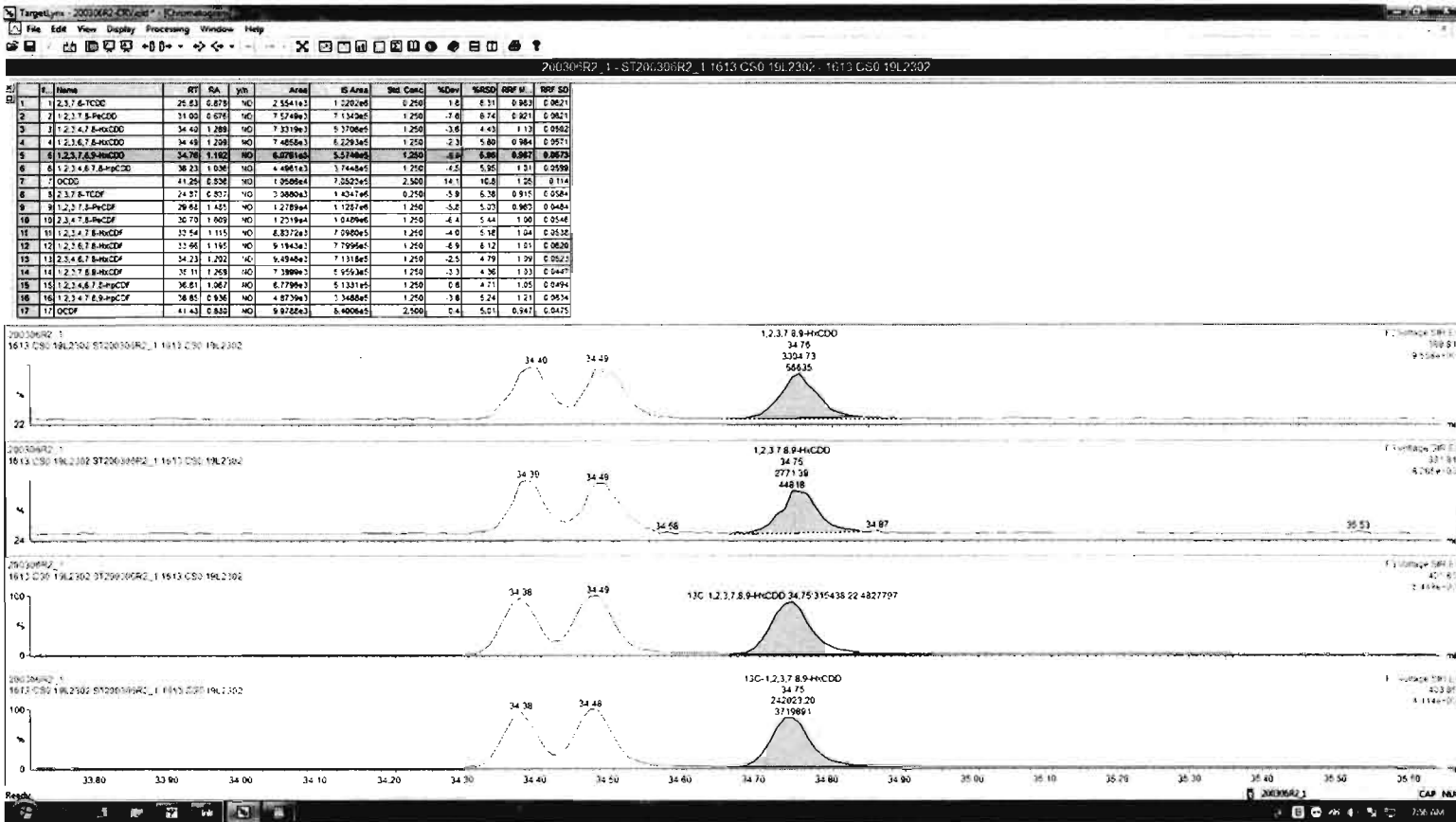
200306R2_1



200306R2_1







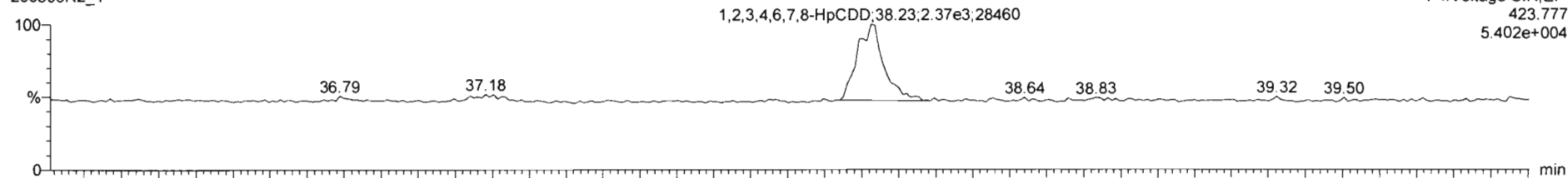
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

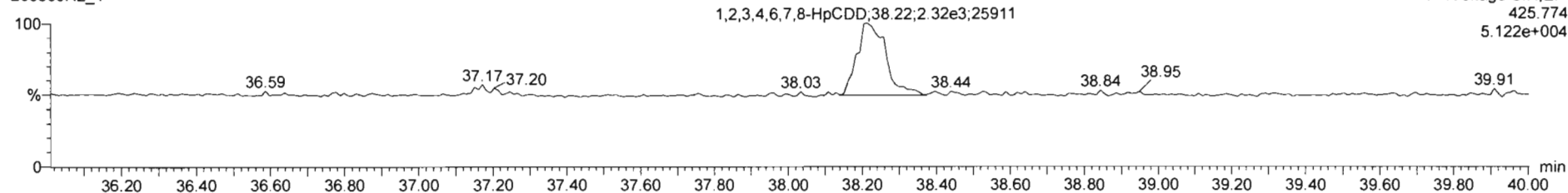
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1,2,3,4,6,7,8-HpCDD

200306R2_1

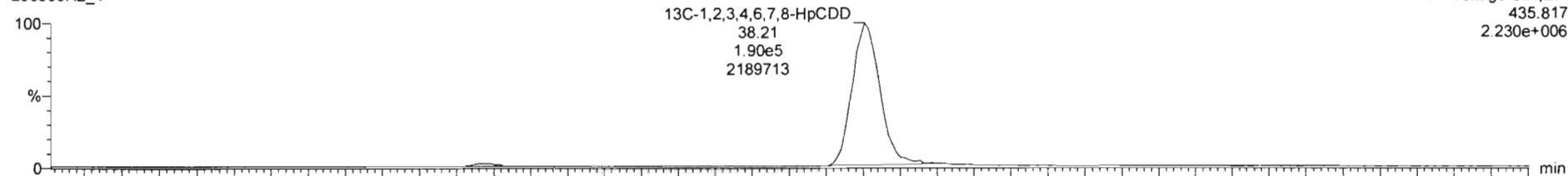


200306R2_1

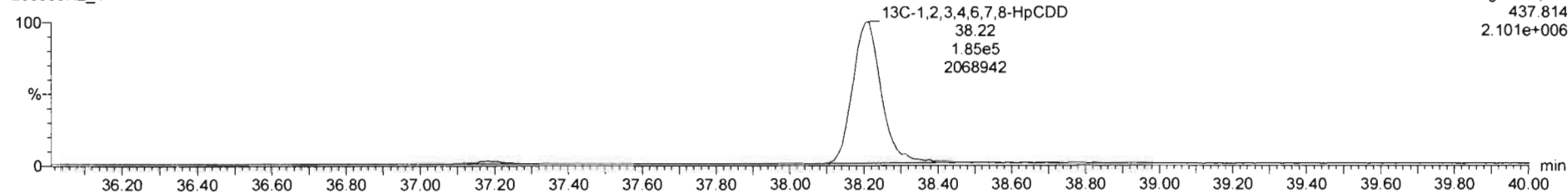


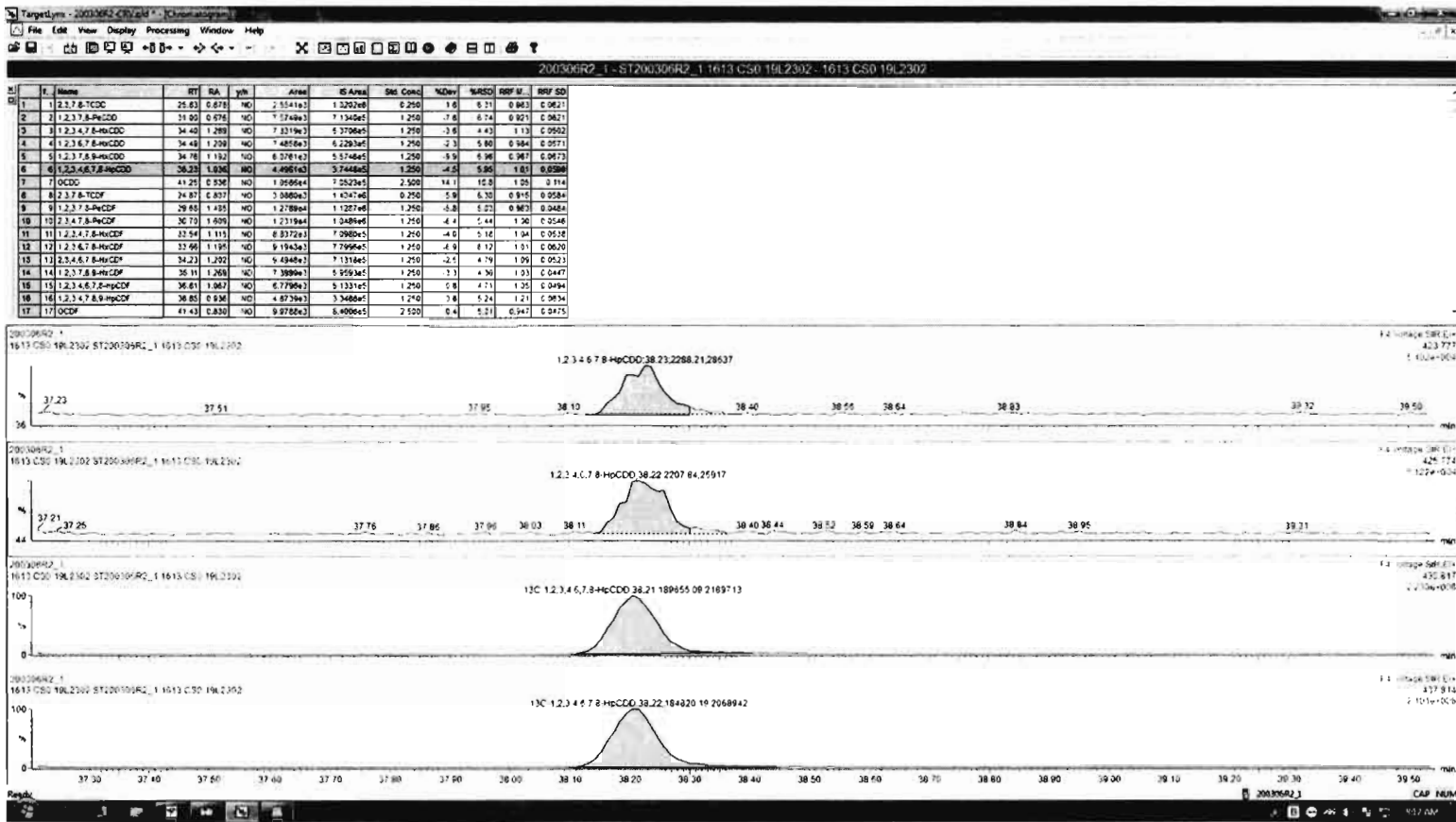
13C-1,2,3,4,6,7,8-HpCDD

200306R2_1



200306R2_1





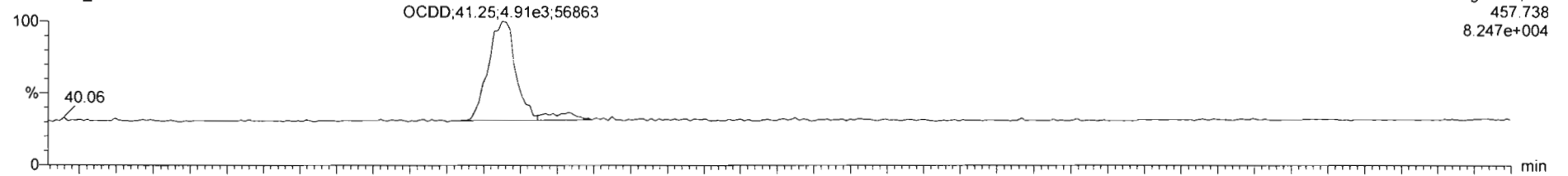
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

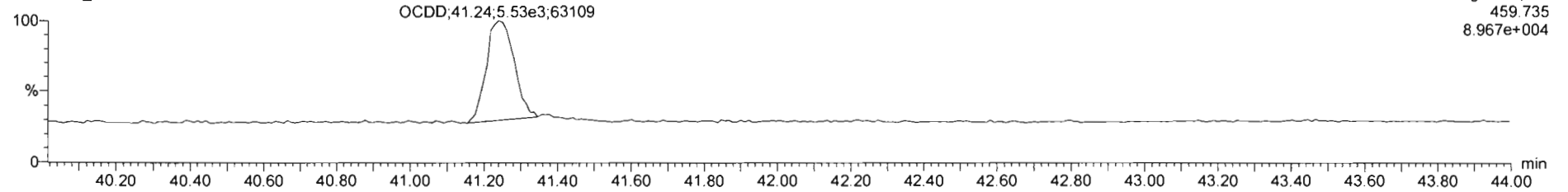
OCDD

200306R2_1



F5:Voltage SIR,EI+
457.738
8.247e+004

200306R2_1



F5:Voltage SIR,EI+
459.735
8.967e+004

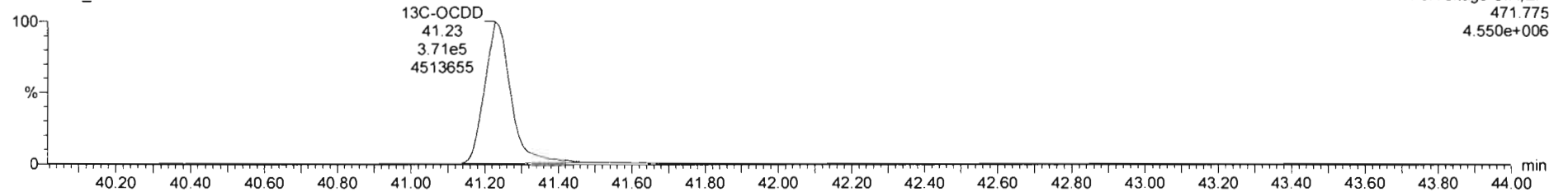
13C-OCDD

200306R2_1

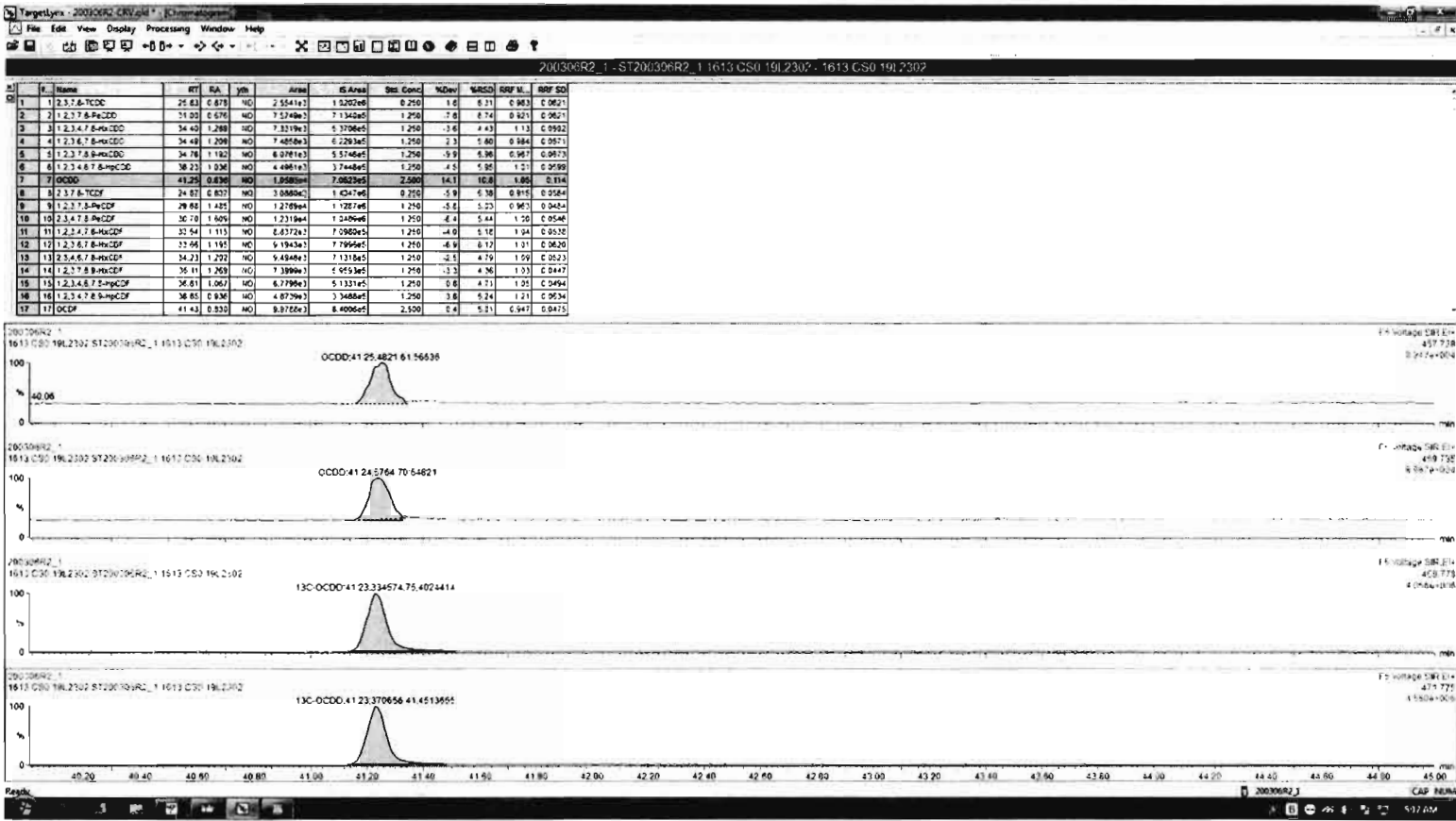


F5:Voltage SIR,EI+
469.778
4.056e+006

200306R2_1



F5:Voltage SIR,EI+
471.775
4.550e+006



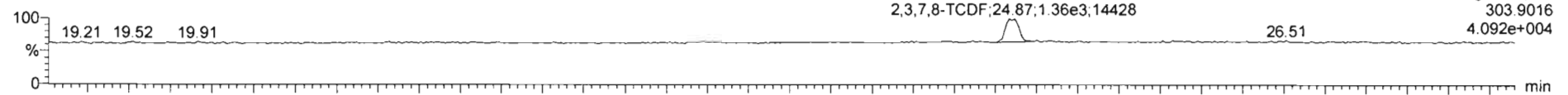
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

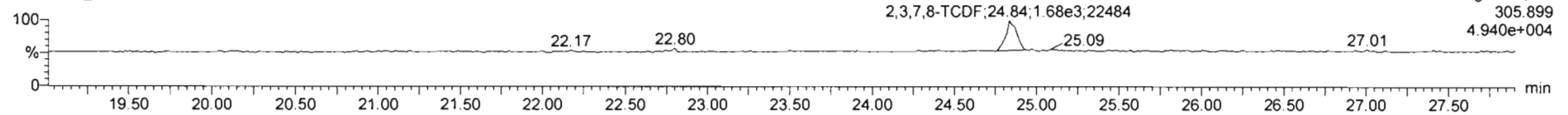
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200306R2_1

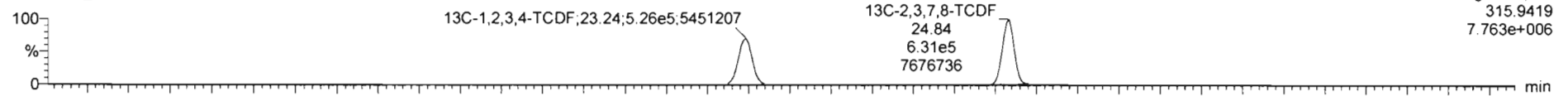


200306R2_1

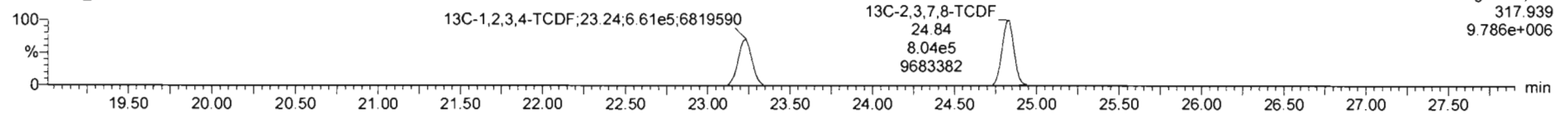


13C-2,3,7,8-TCDF

200306R2_1

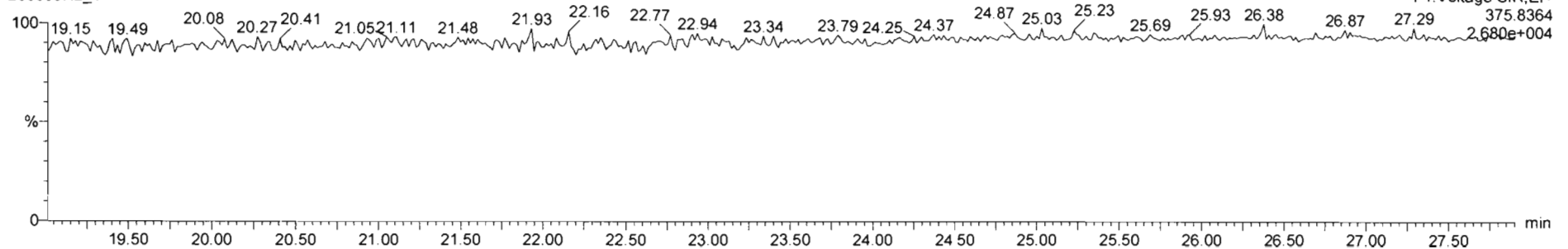


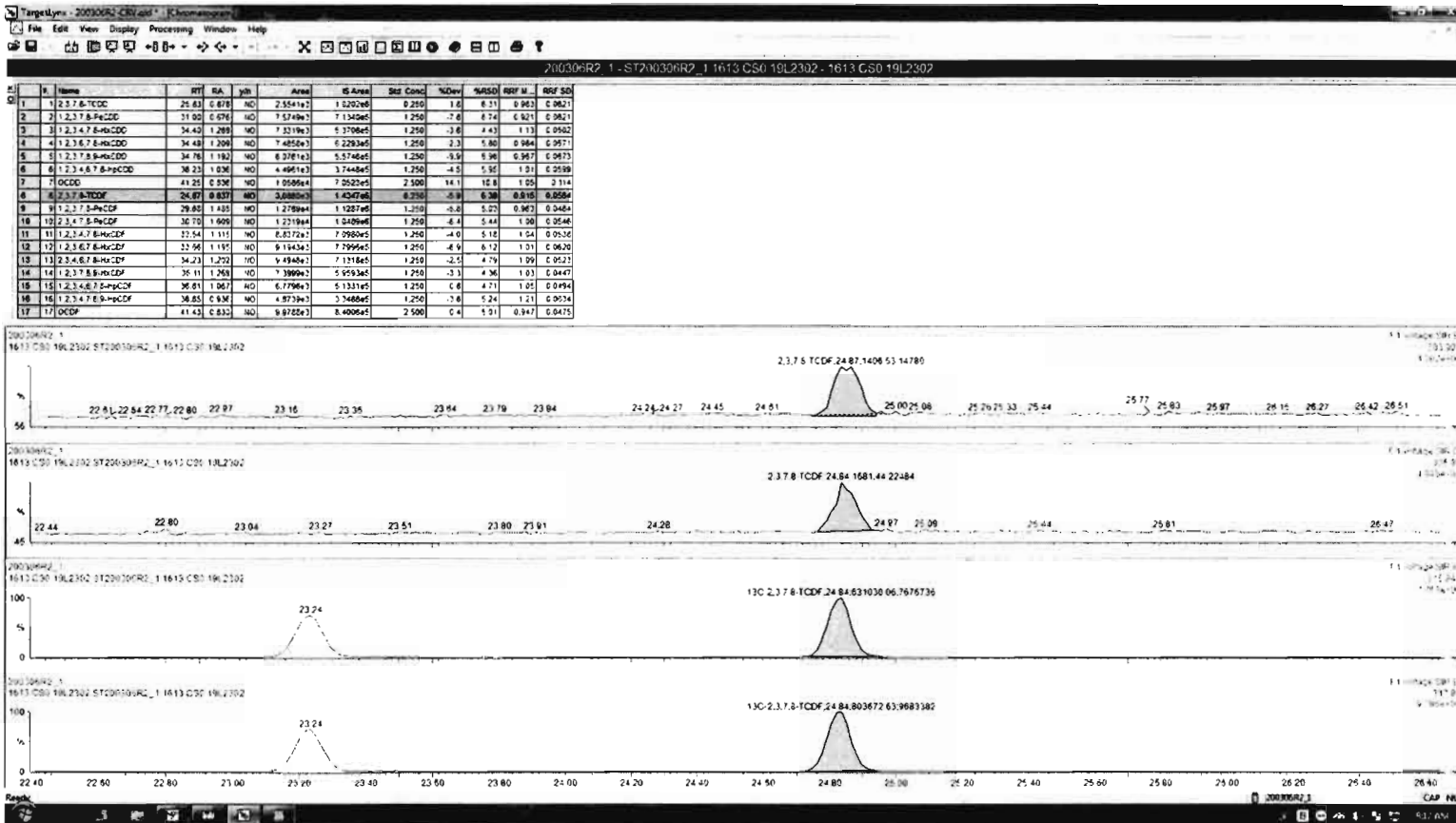
200306R2_1



DPE1

200306R2_1





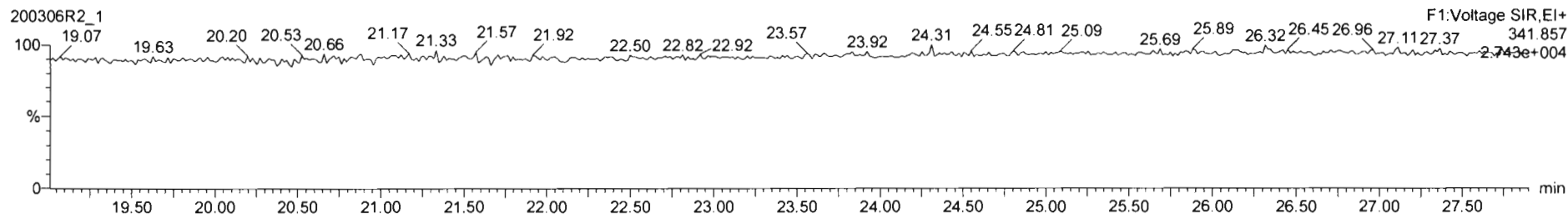
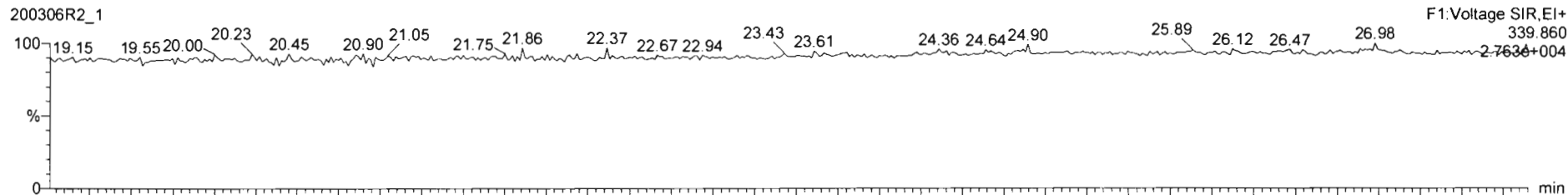
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

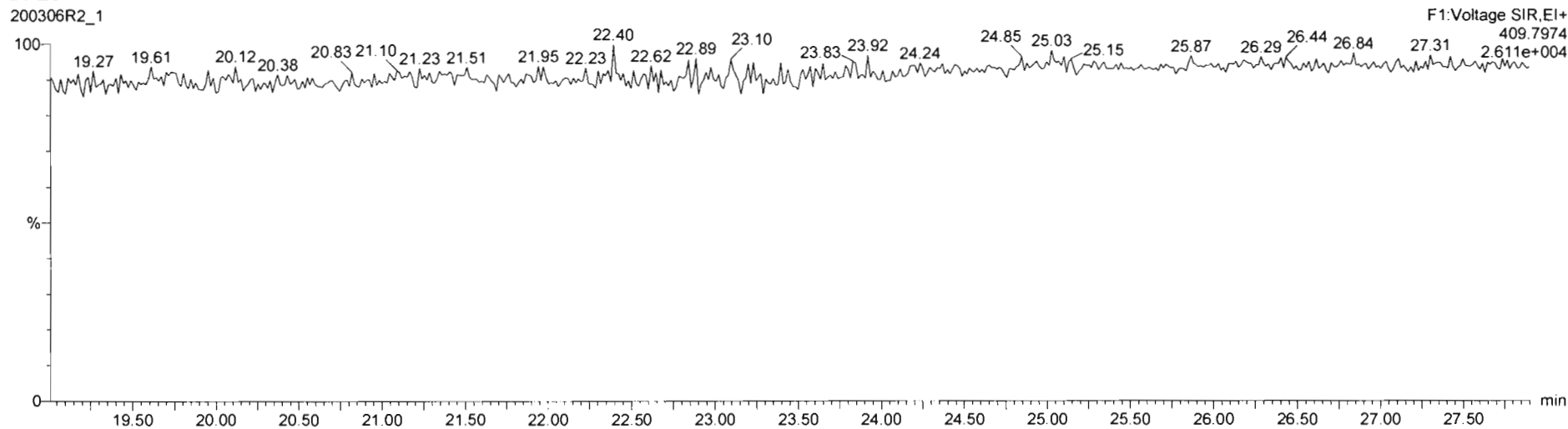
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1st Func. Penta-Furans



DPE6



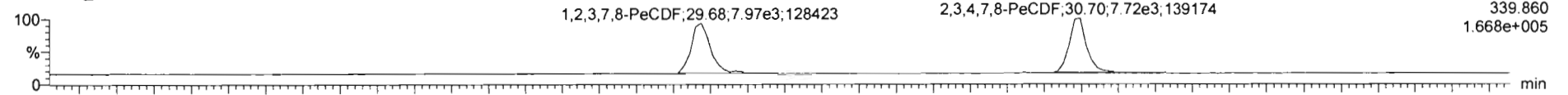
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

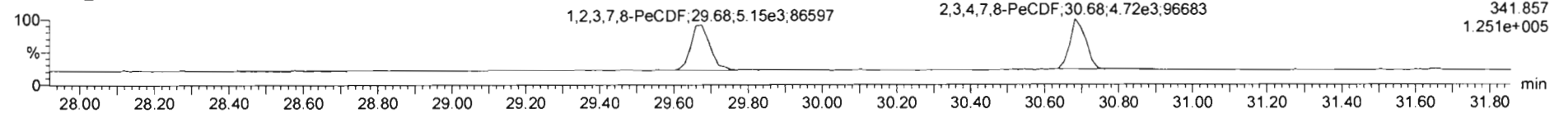
1,2,3,7,8-PeCDF

200306R2_1



F2: Voltage SIR, EI+
339.860
1.668e+005

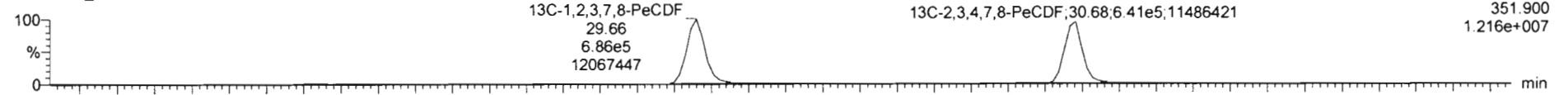
200306R2_1



F2: Voltage SIR, EI+
341.857
1.251e+005

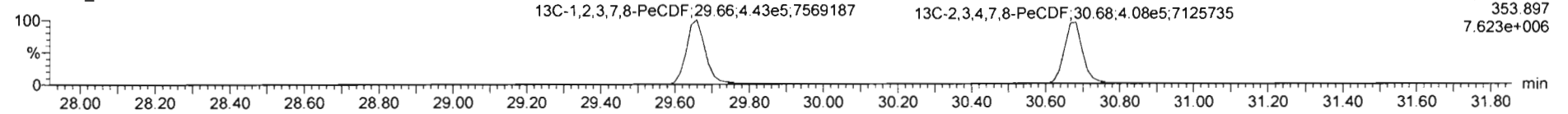
13C-1,2,3,7,8-PeCDF

200306R2_1



F2: Voltage SIR, EI+
351.900
1.216e+007

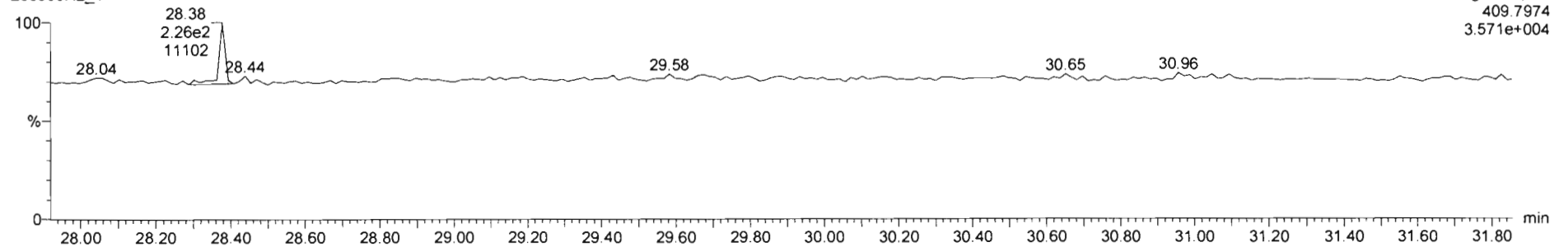
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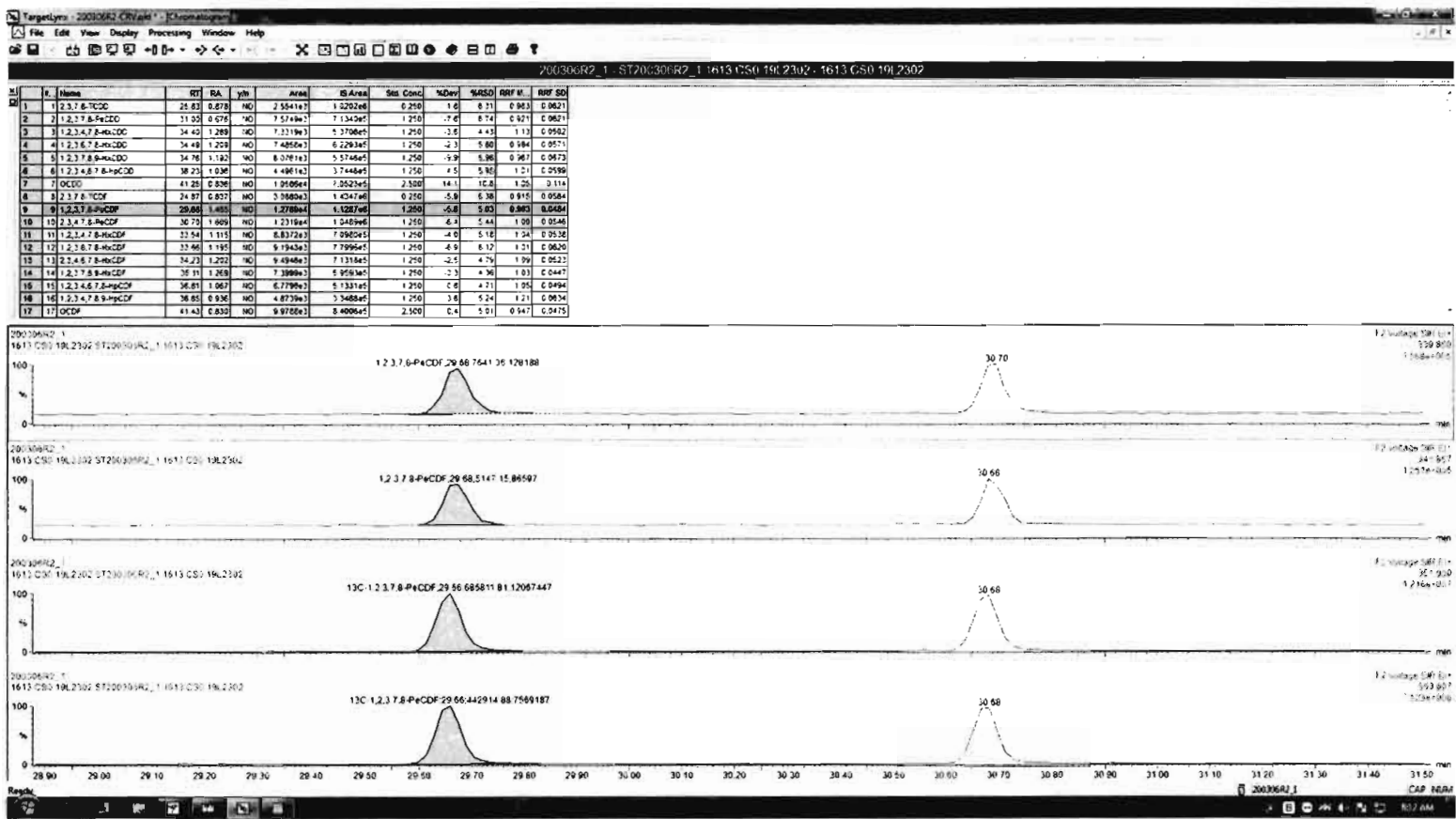
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353.897
7.623e+006

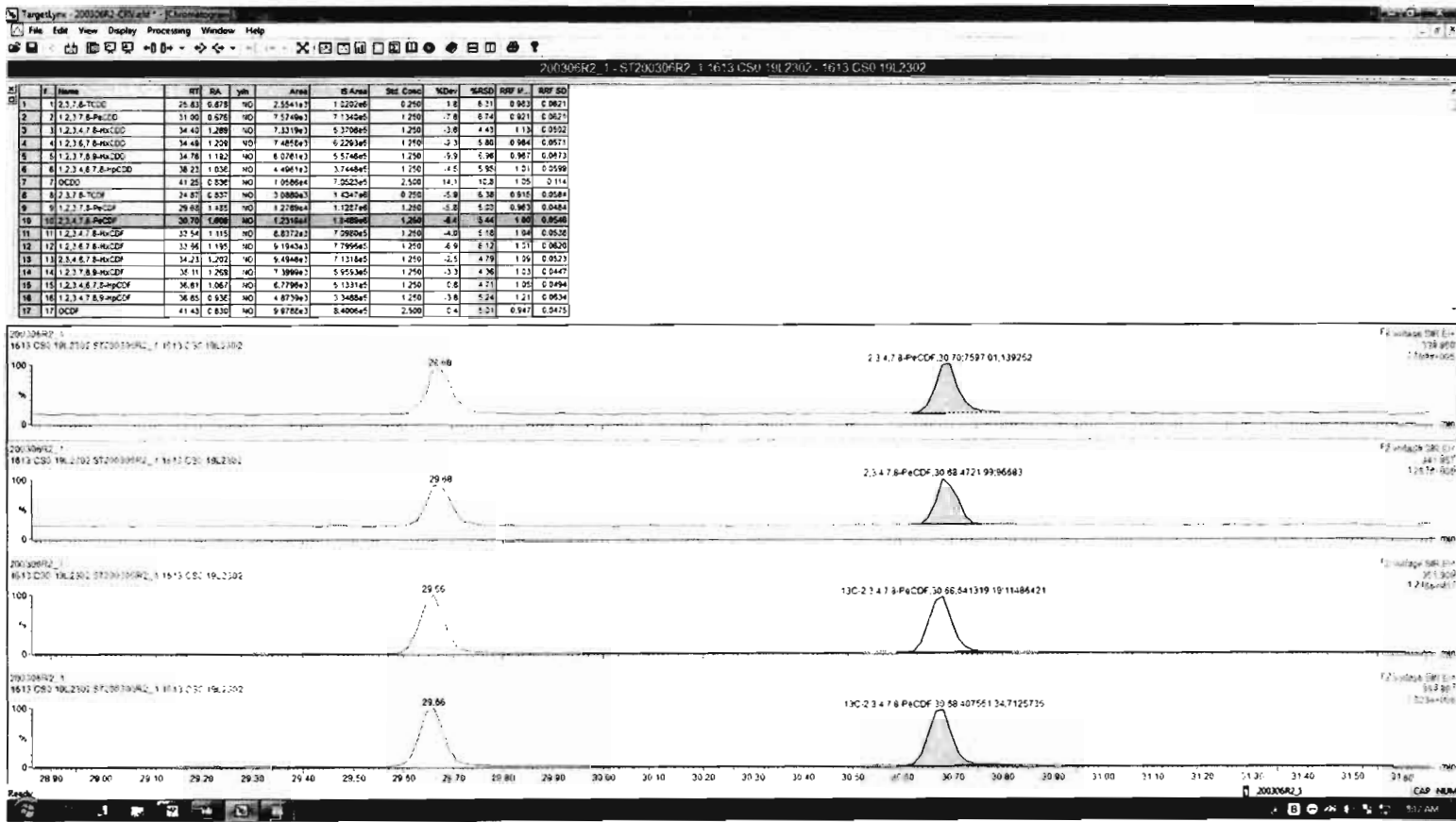
DPE2

200306R2_1



F2: Voltage SIR, EI+
409.7974
3.571e+004





Dataset: Untitled

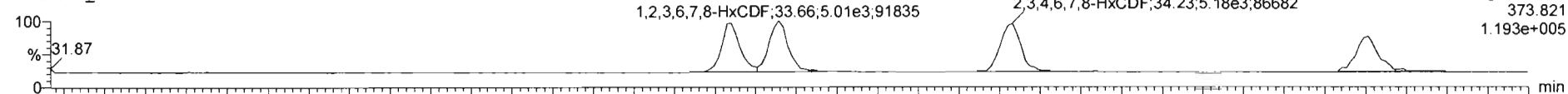
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

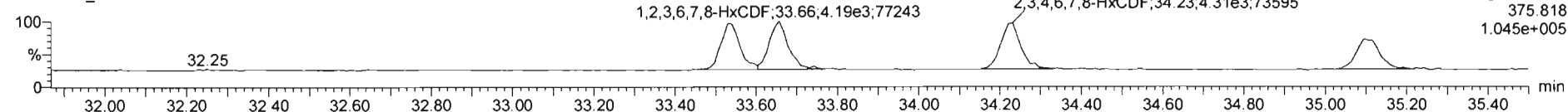
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1,2,3,4,7,8-HxCDF

200306R2_1

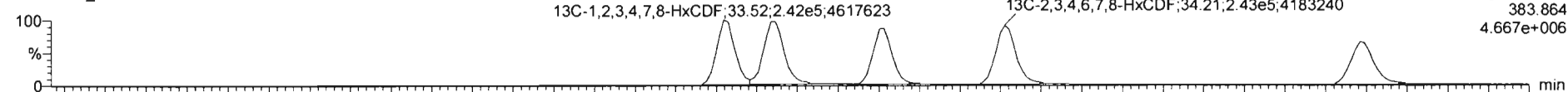


200306R2_1

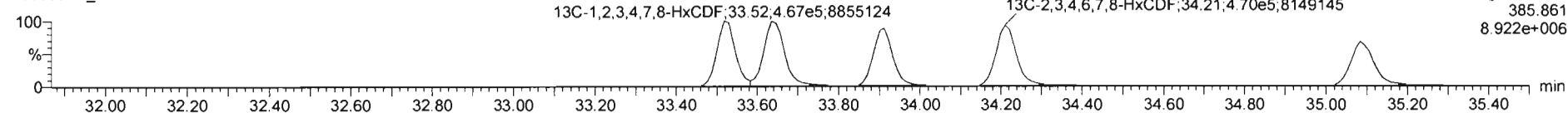


13C-1,2,3,4,7,8-HxCDF

200306R2_1

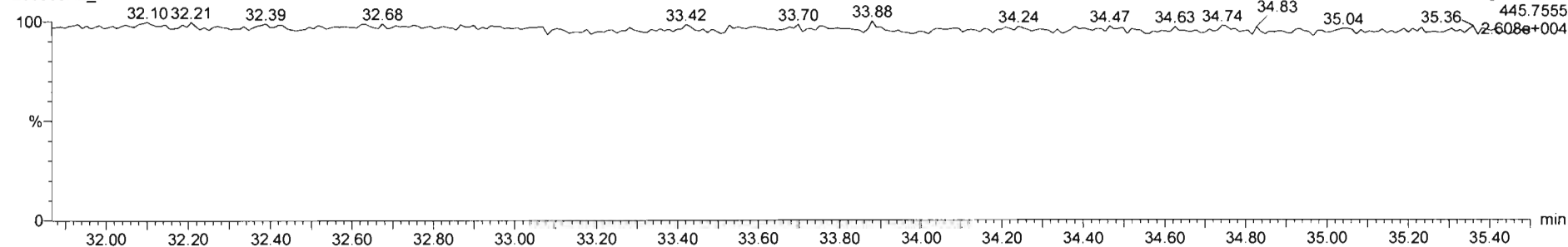


200306R2_1



DPE3

200306R2_1

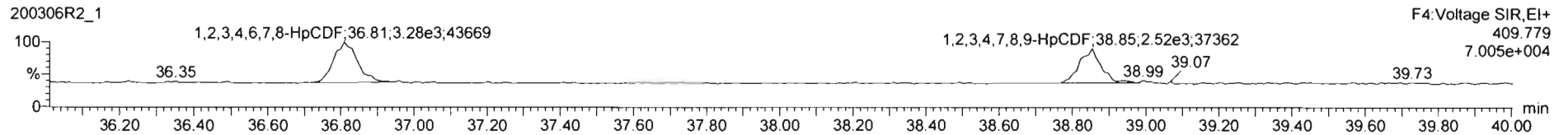
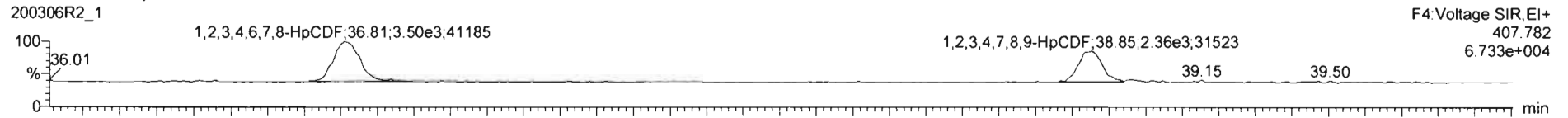


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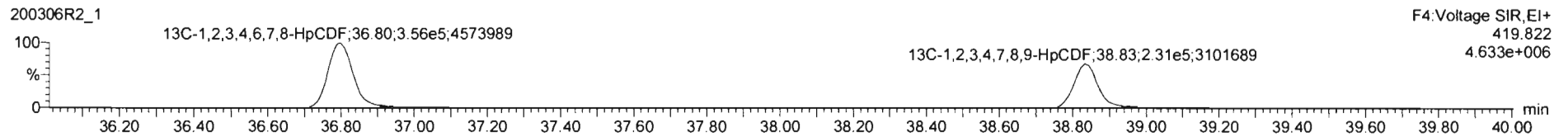
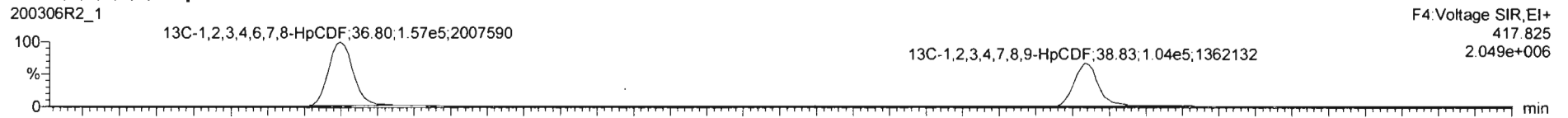
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

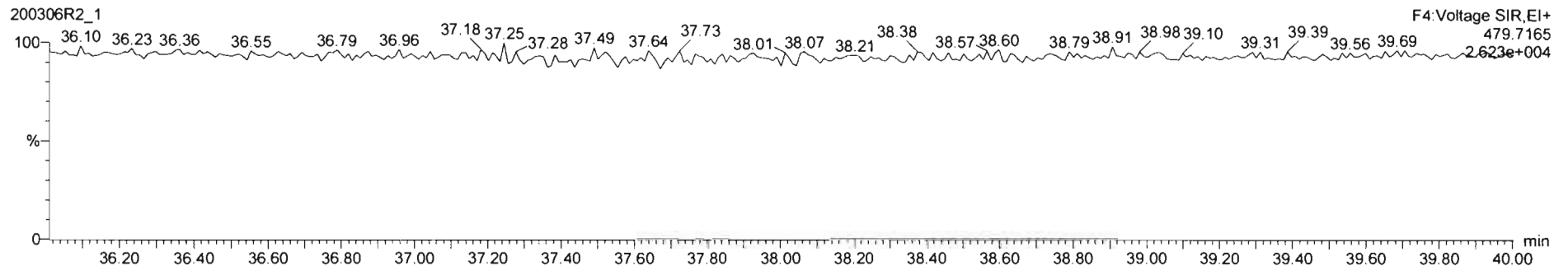
1,2,3,4,6,7,8-HpCDF



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



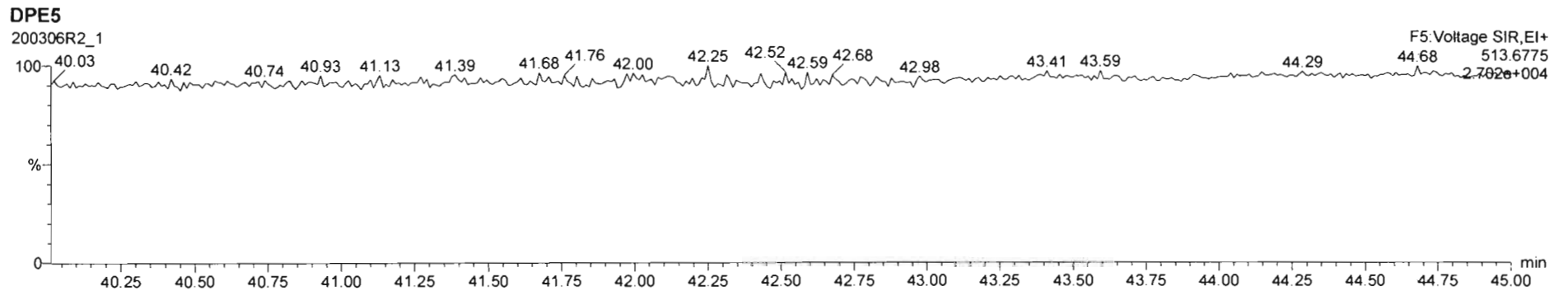
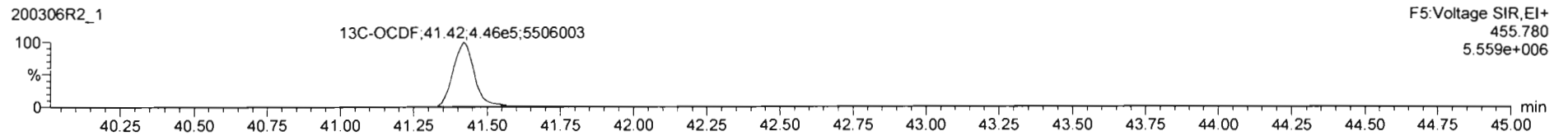
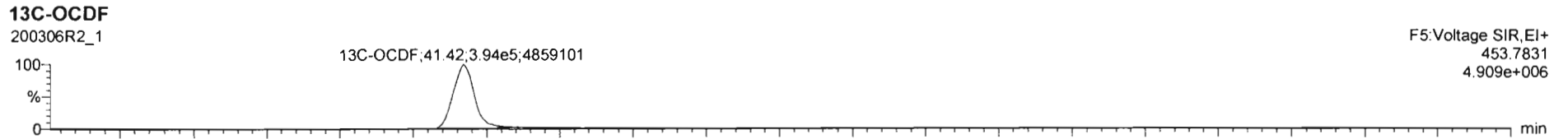
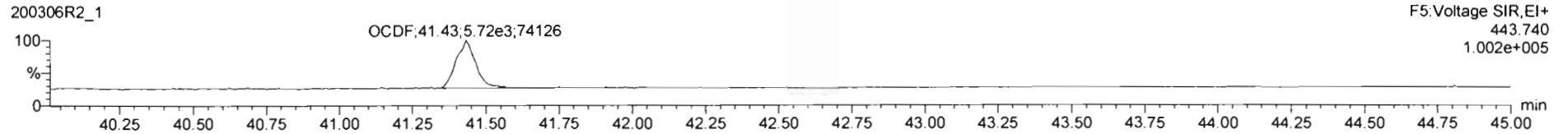
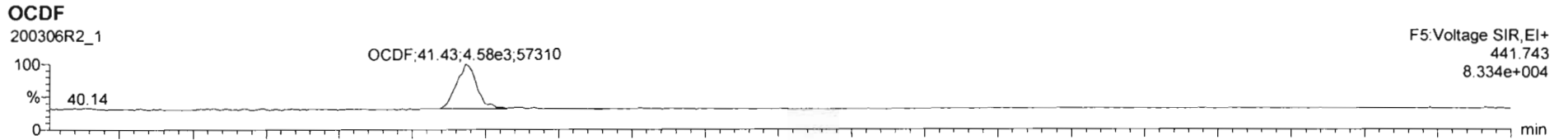
DPE4

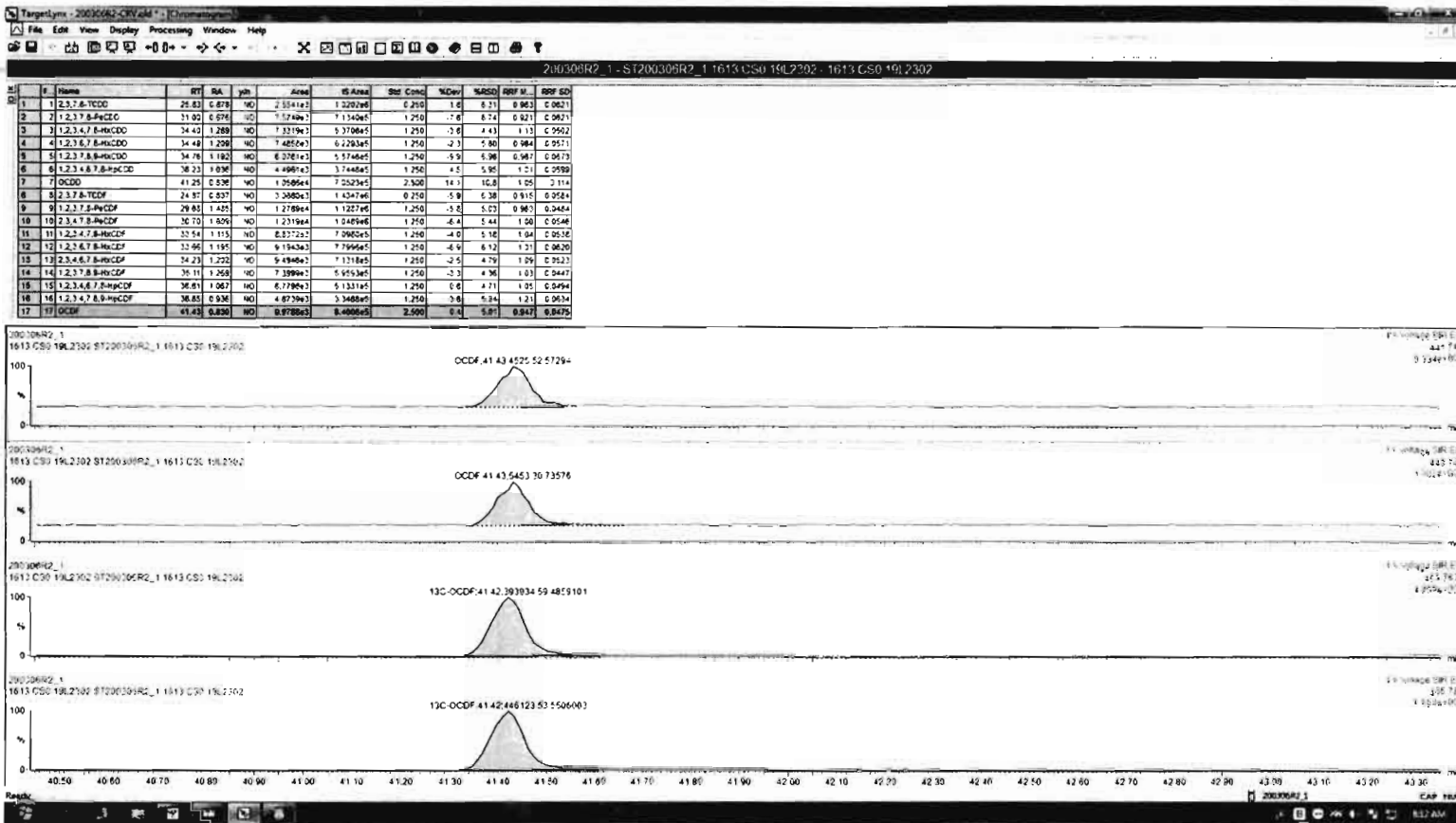


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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

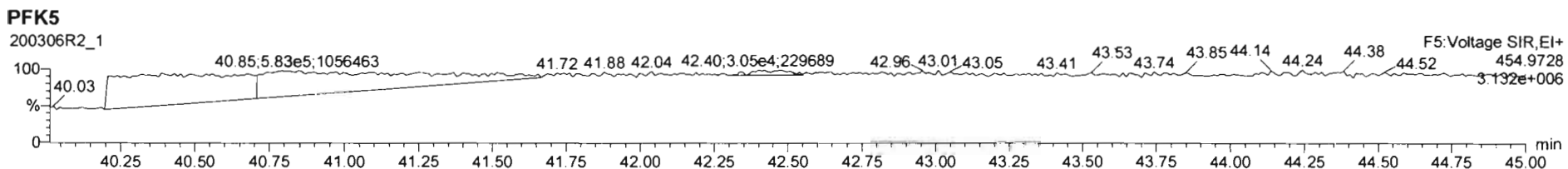
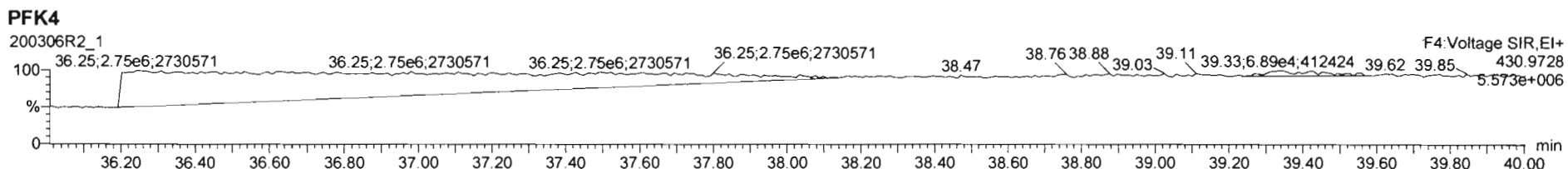
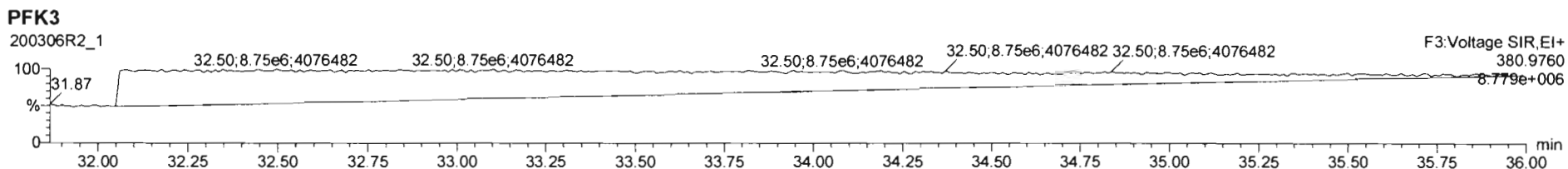
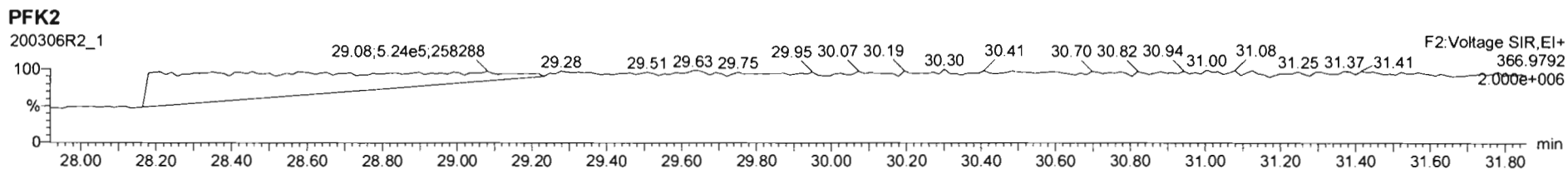
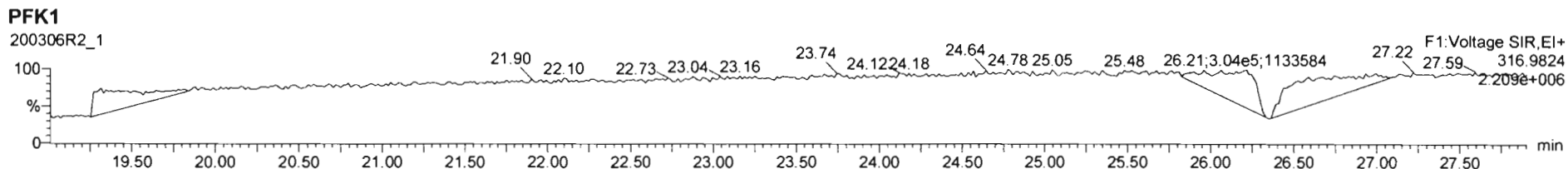




Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



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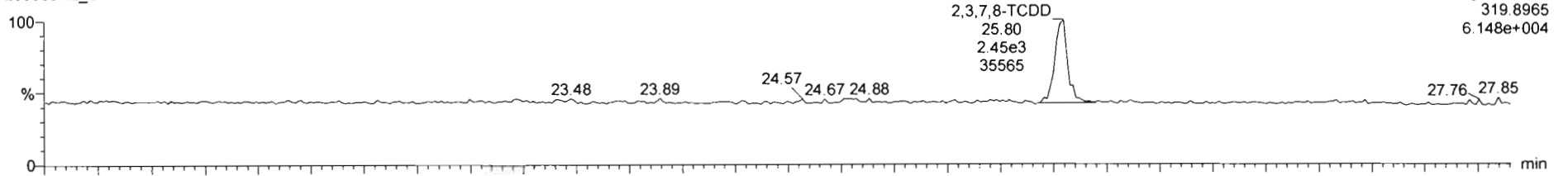
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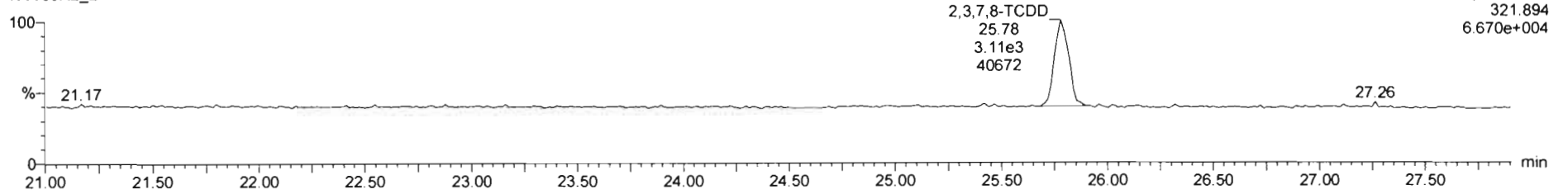
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2,3,7,8-TCDD

200306R2_2

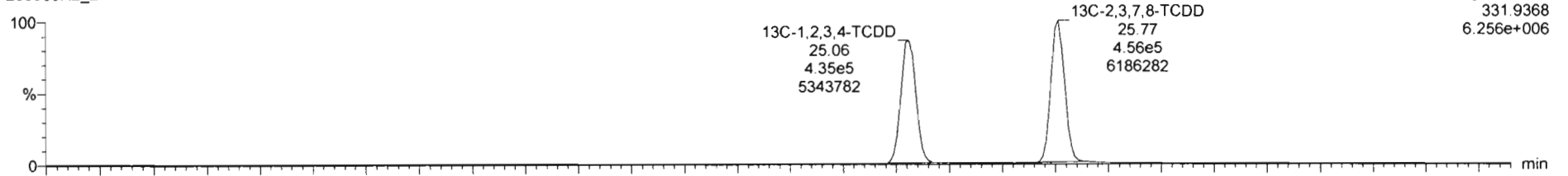


200306R2_2

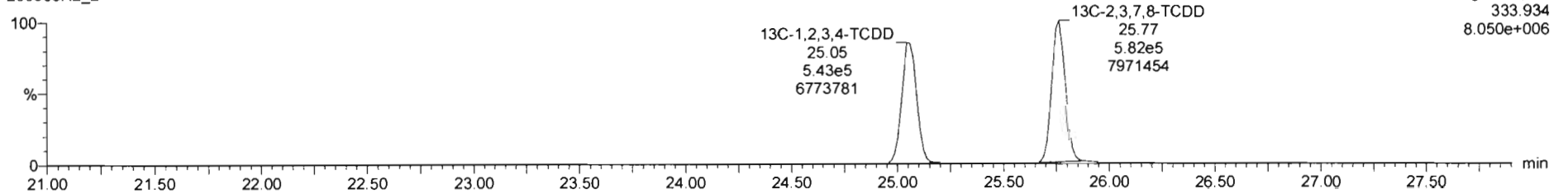


13C-2,3,7,8-TCDD

200306R2_2



200306R2_2



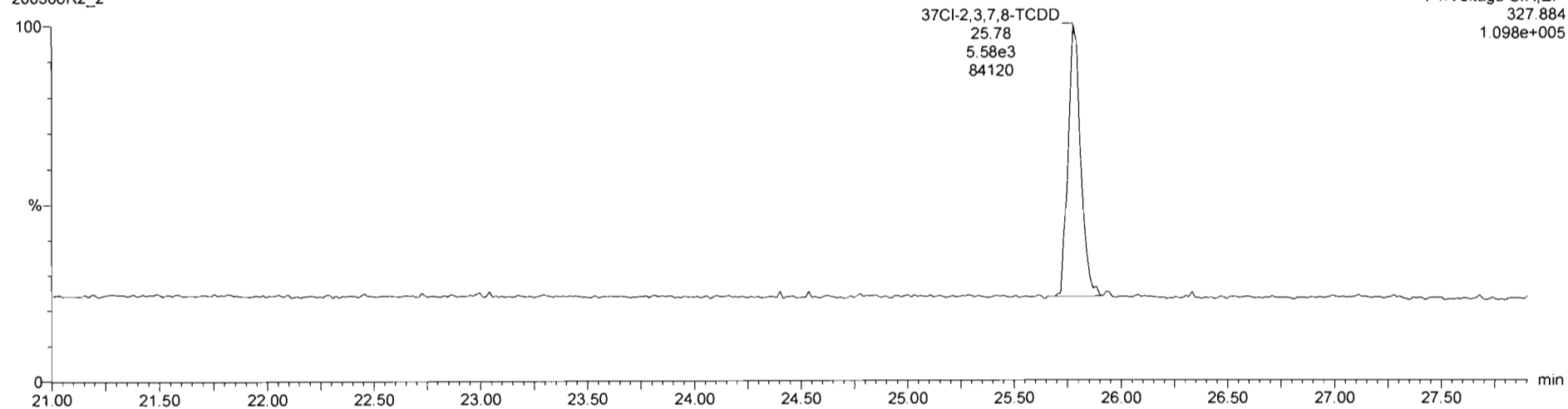
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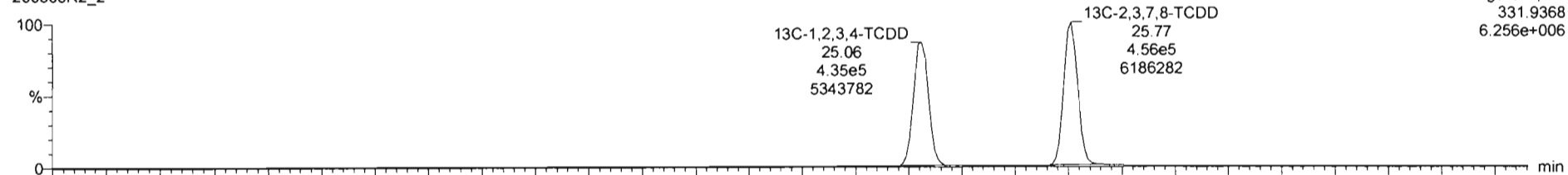
37Cl-2,3,7,8-TCDD

200306R2_2

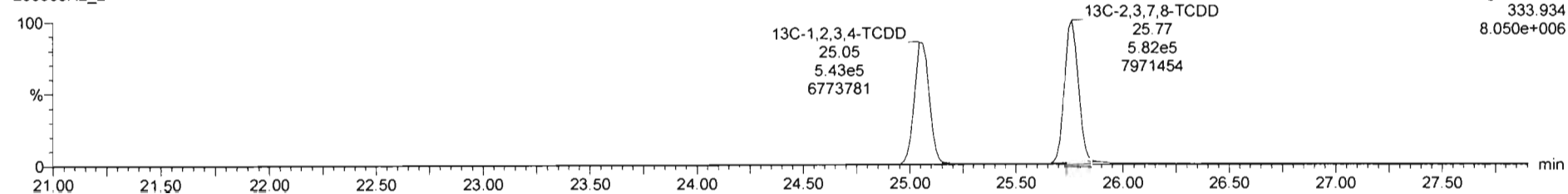


13C-1,2,3,4-TCDD

200306R2_2



200306R2_2



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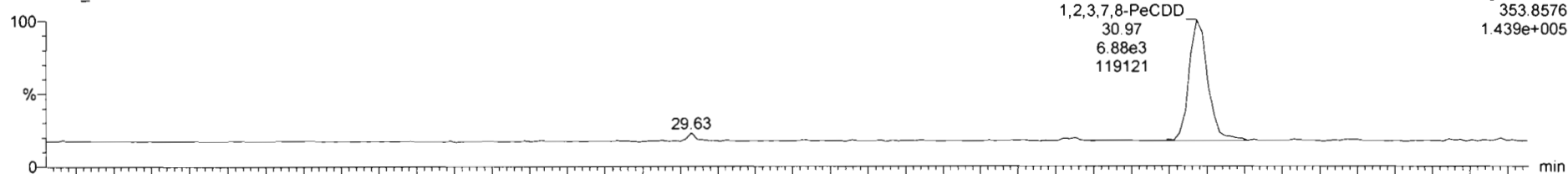
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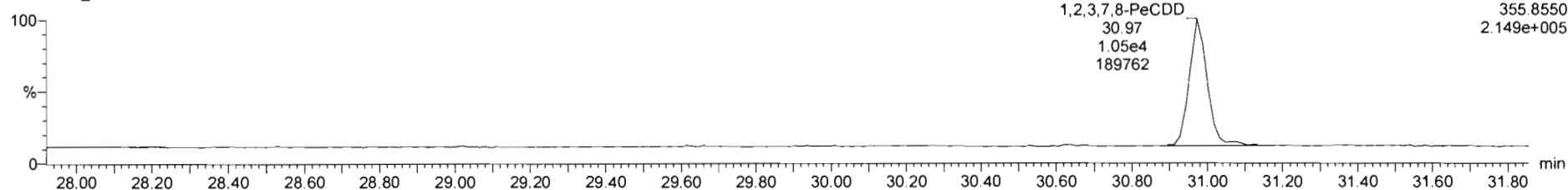
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1,2,3,7,8-PeCDD

200306R2_2

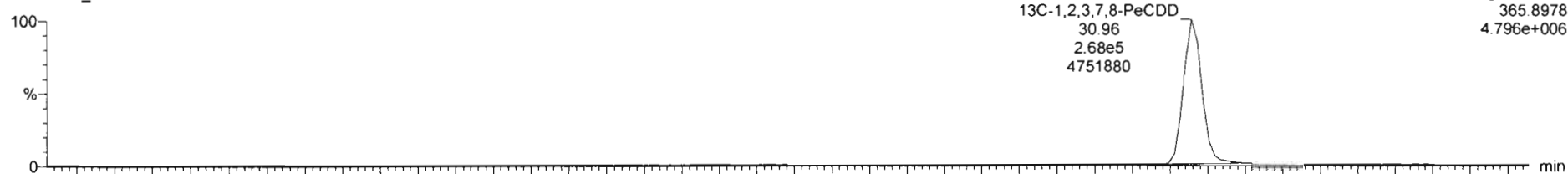


200306R2_2

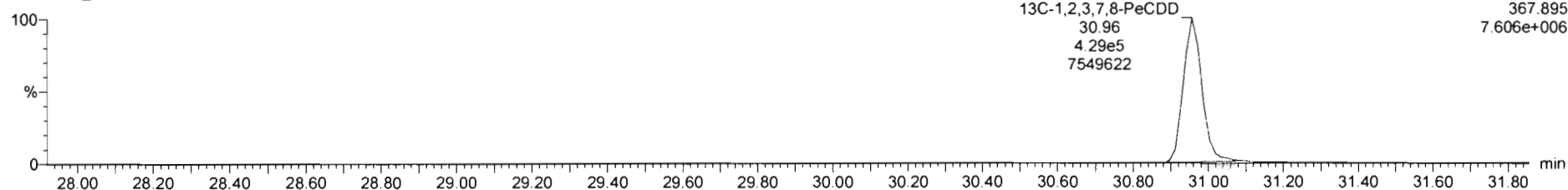


13C-1,2,3,7,8-PeCDD

200306R2_2



200306R2_2



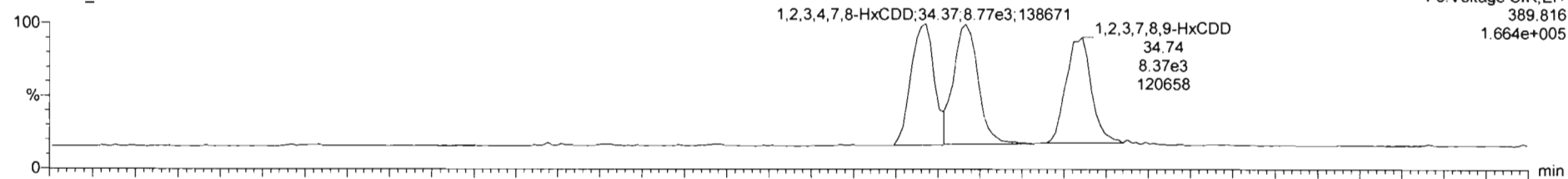
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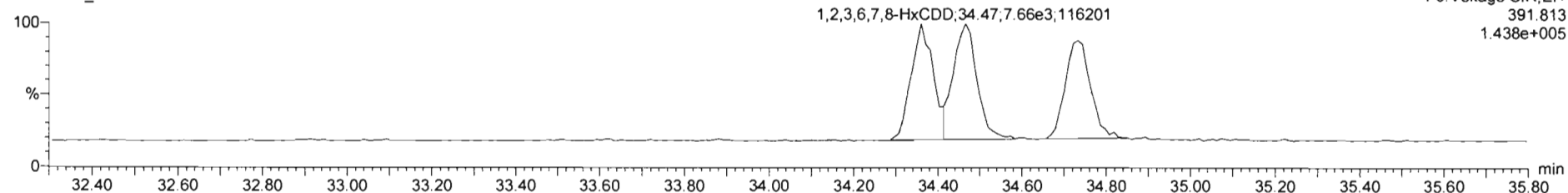
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1,2,3,4,7,8-HxCDD

200306R2_2

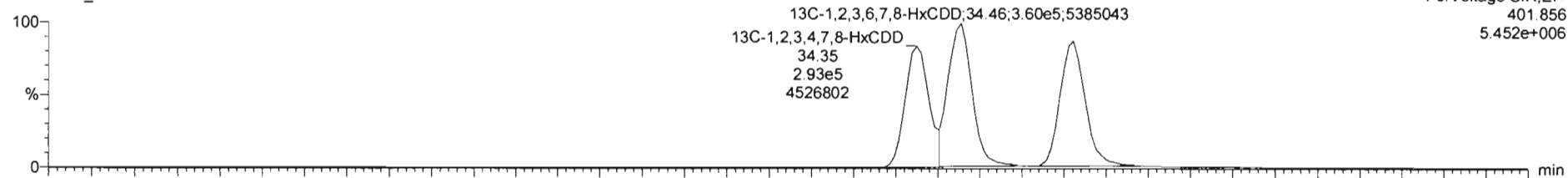


200306R2_2

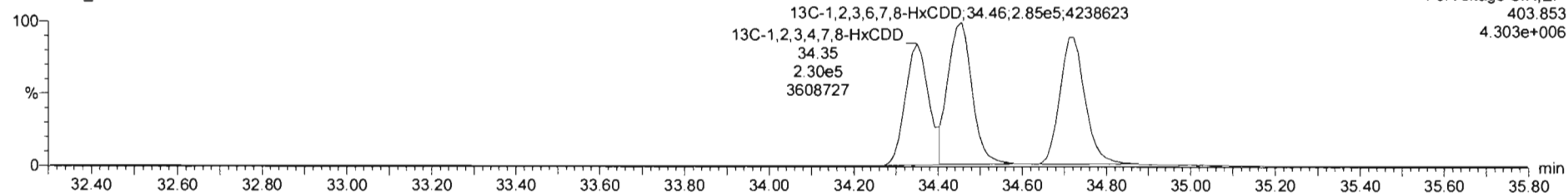


13C-1,2,3,4,7,8-HxCDD

200306R2_2



200306R2_2



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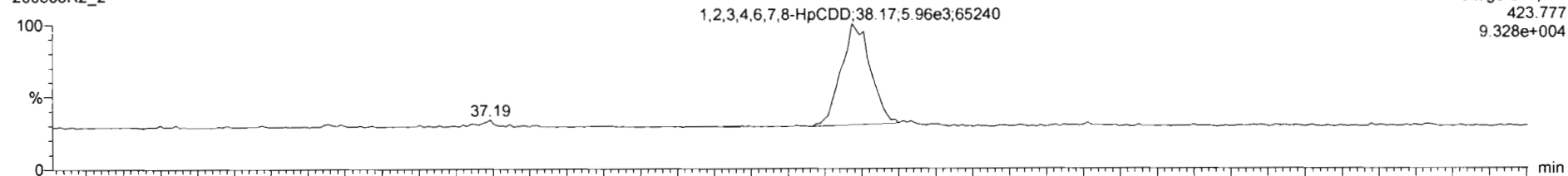
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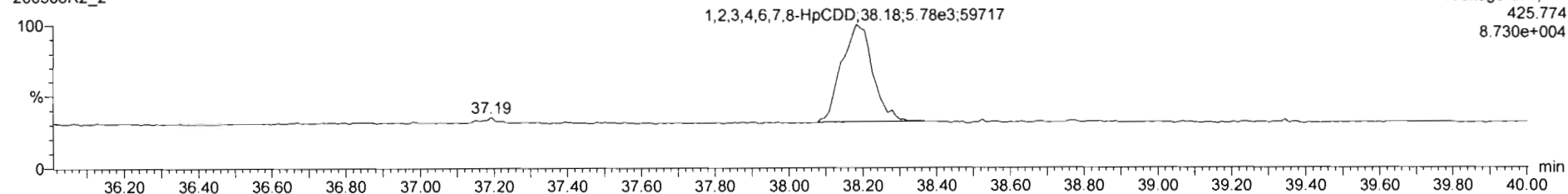
1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
423.777
9.328e+004

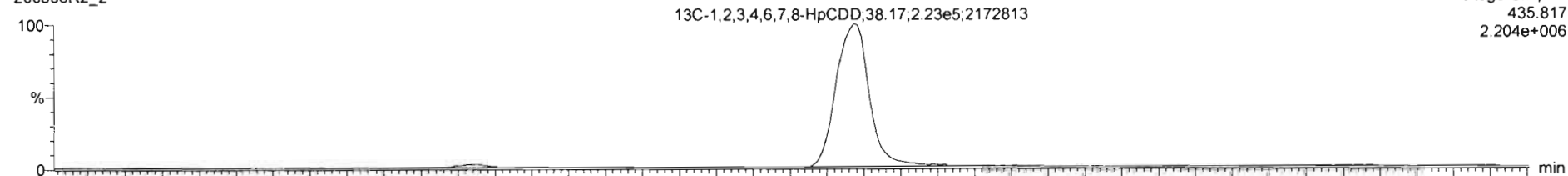
200306R2_2



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425.774
8.730e+004

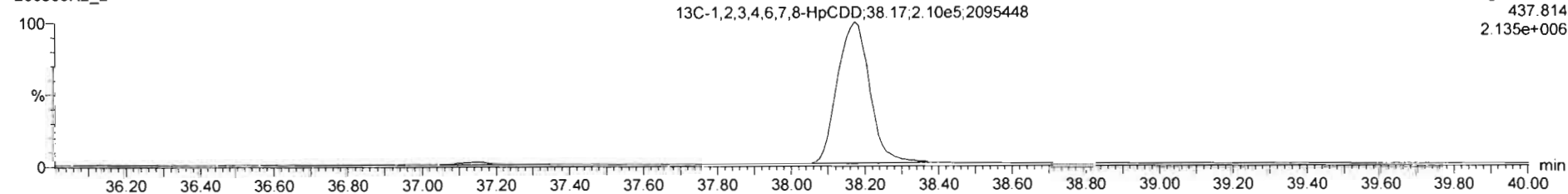
13C-1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
435.817
2.204e+006

200306R2_2



F4: Voltage SIR, EI+
437.814
2.135e+006

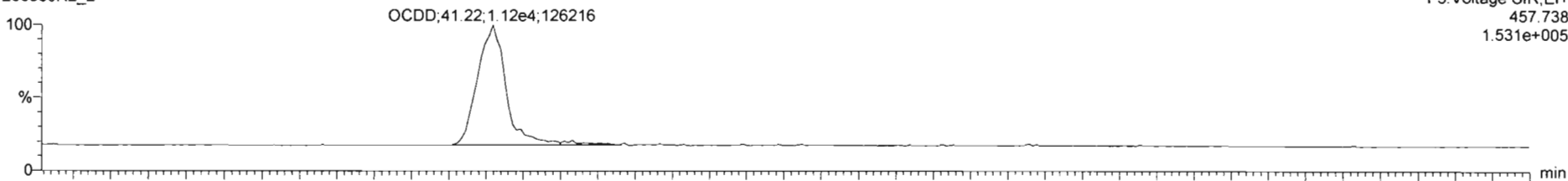
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

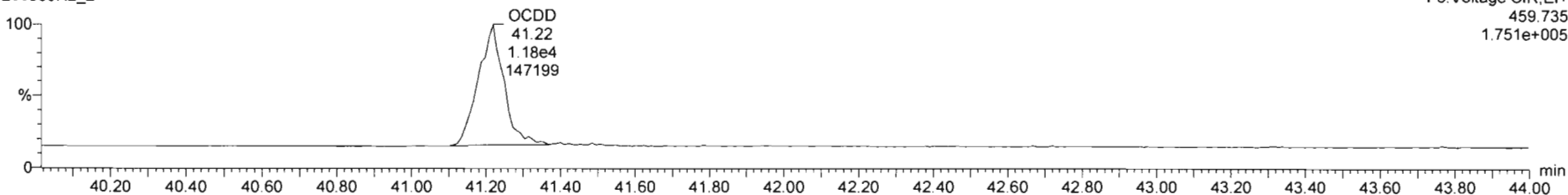
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OCDD

200306R2_2

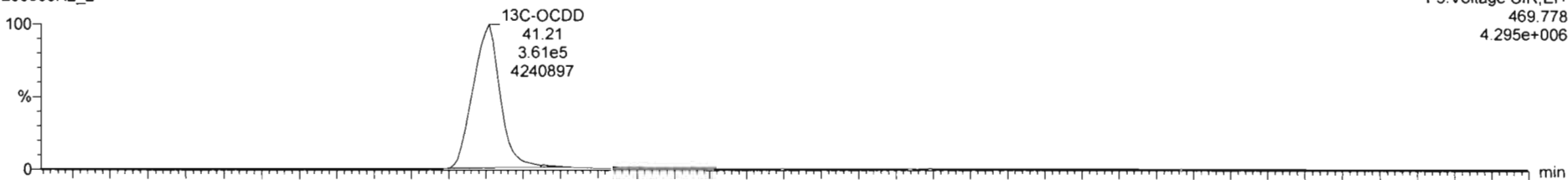


200306R2_2

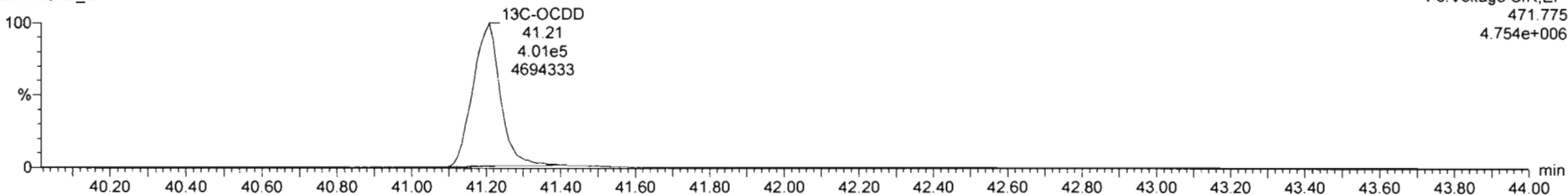


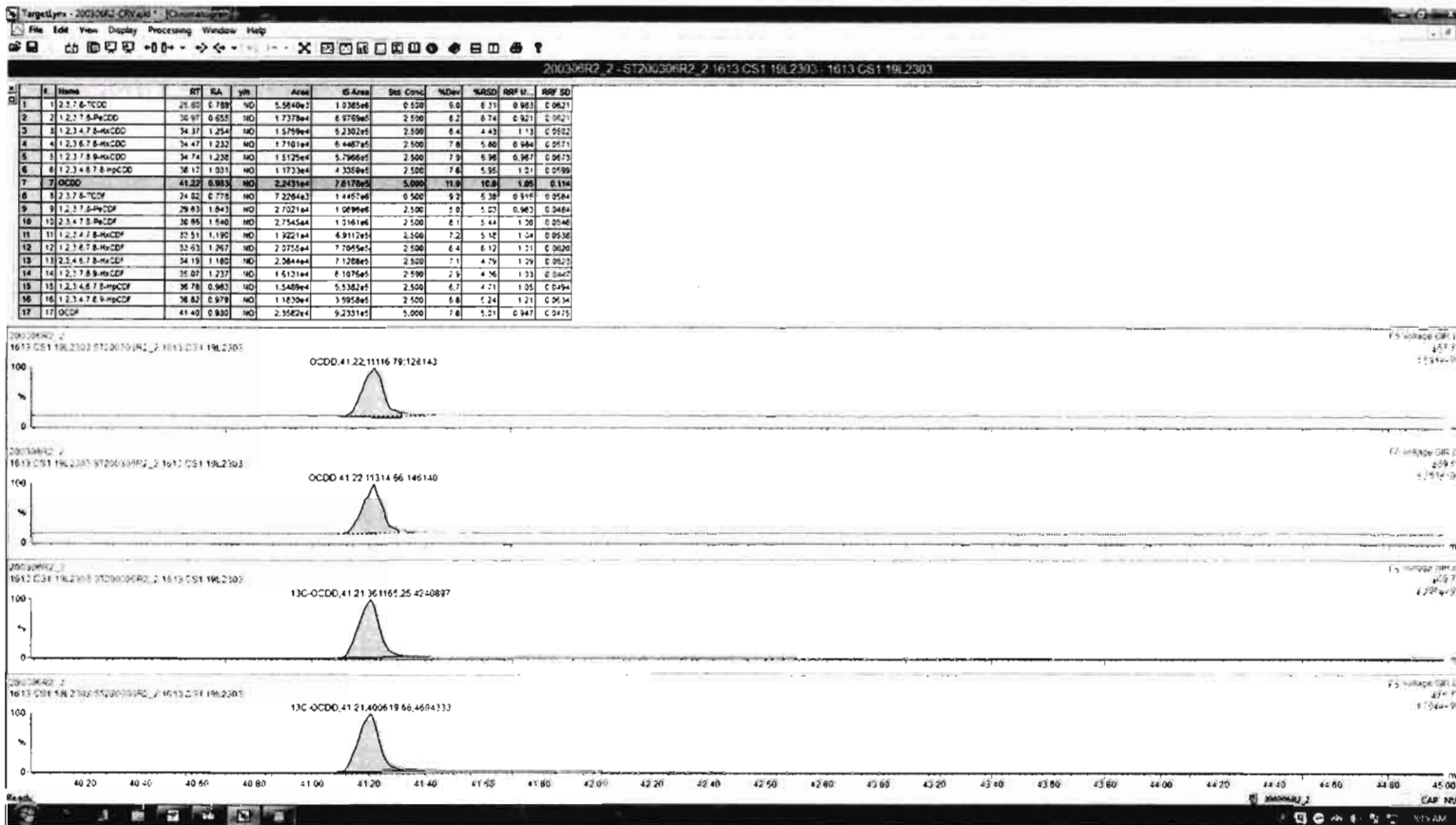
13C-OCDD

200306R2_2



200306R2_2





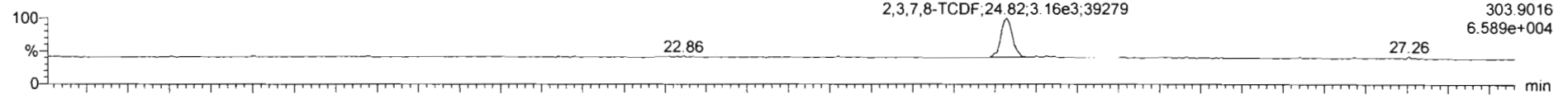
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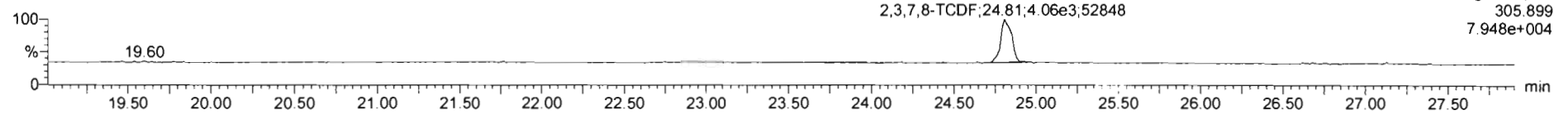
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2,3,7,8-TCDF

200306R2_2

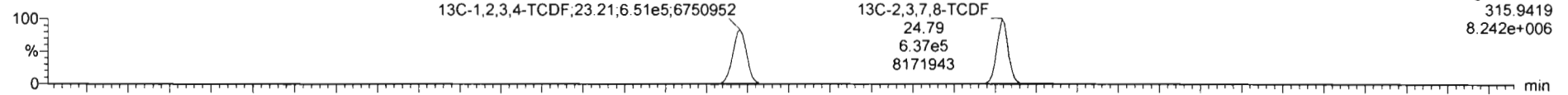


200306R2_2

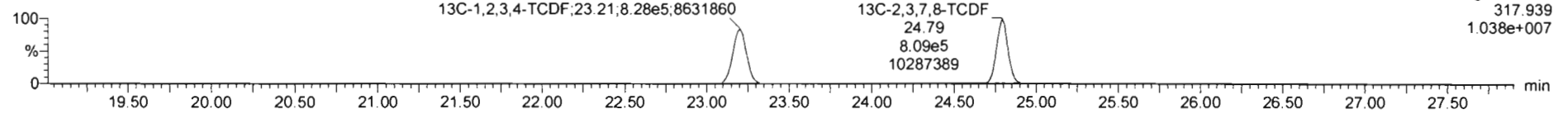


13C-2,3,7,8-TCDF

200306R2_2

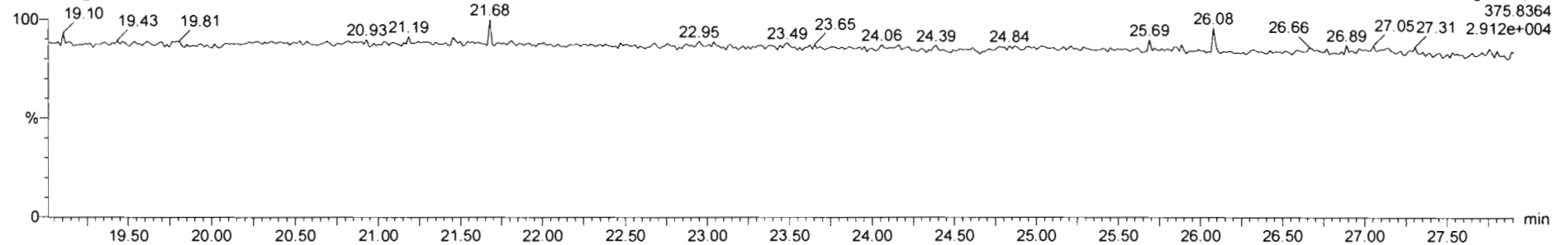


200306R2_2



DPE1

200306R2_2



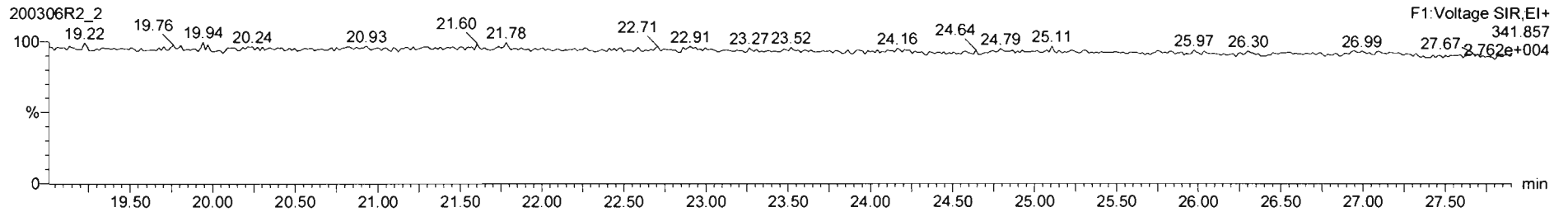
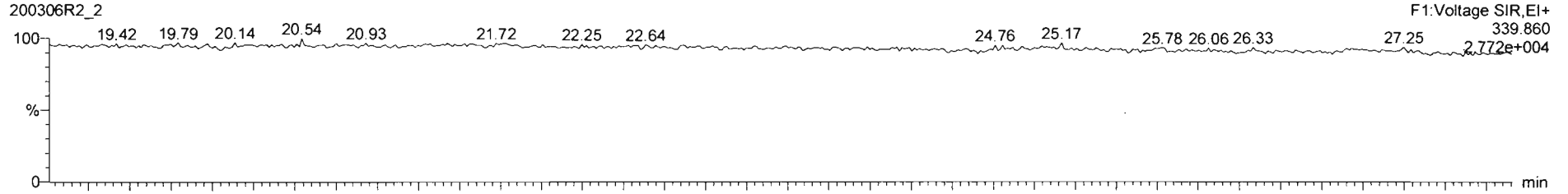
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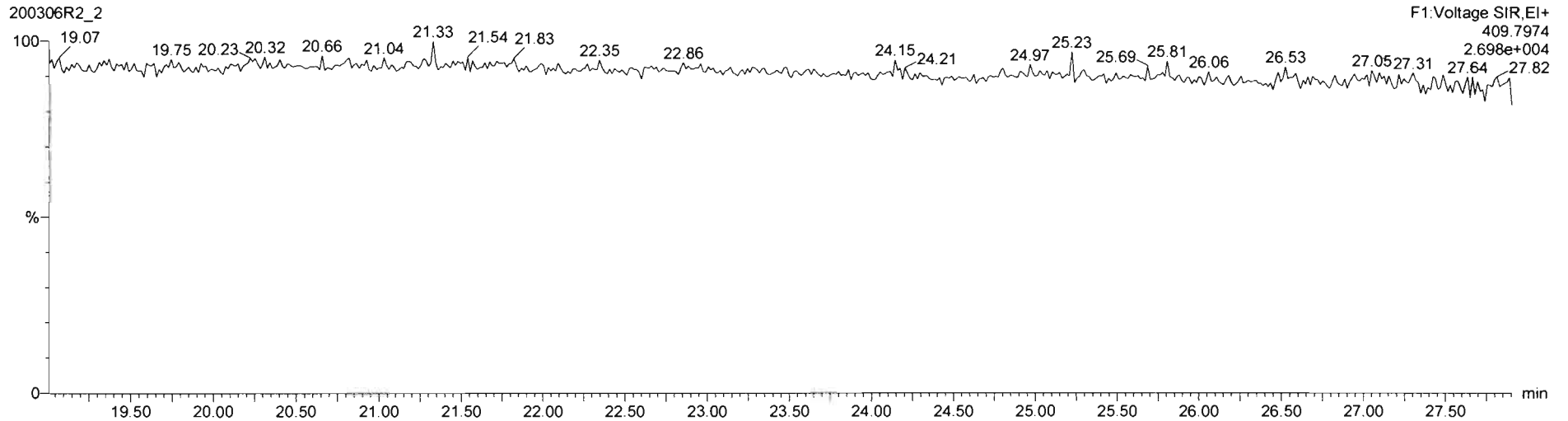
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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1st Func. Penta-Furans



DPE6



Dataset: Untitled

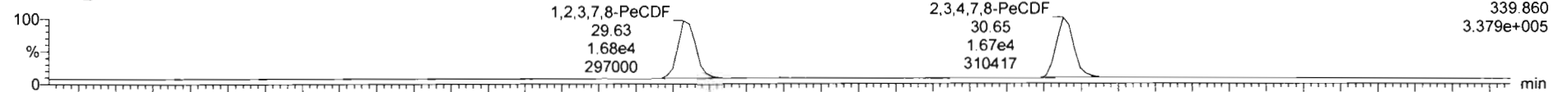
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

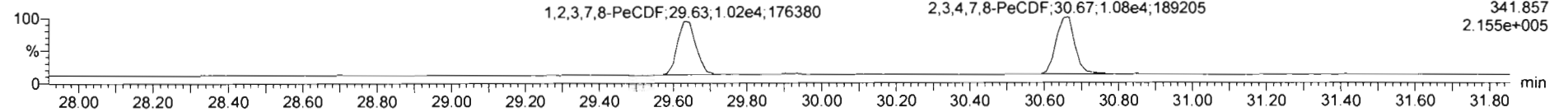
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1,2,3,7,8-PeCDF

200306R2_2

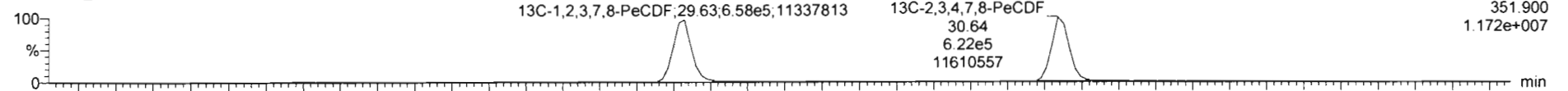


200306R2_2

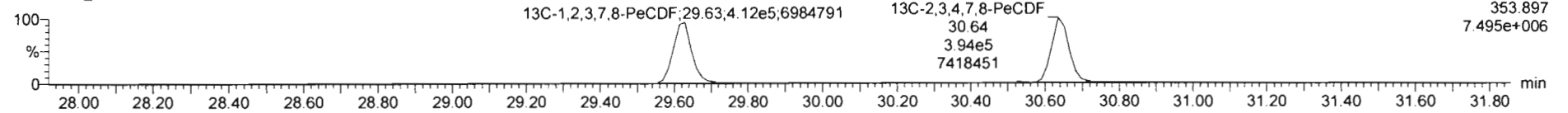


13C-1,2,3,7,8-PeCDF

200306R2_2

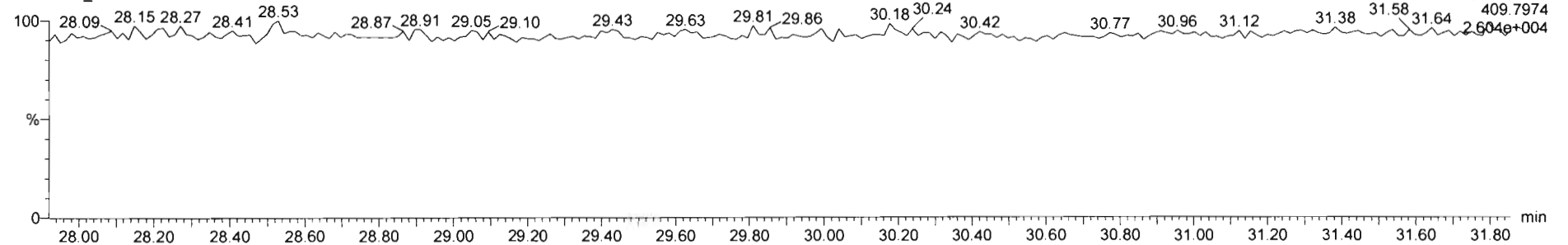


200306R2_2



DPE2

200306R2_2



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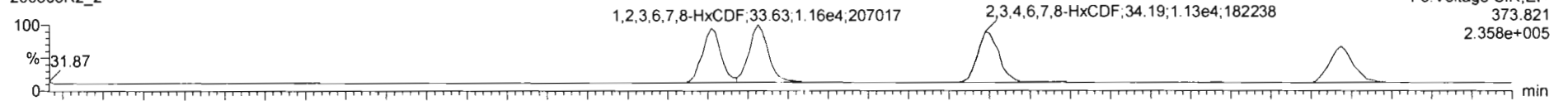
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

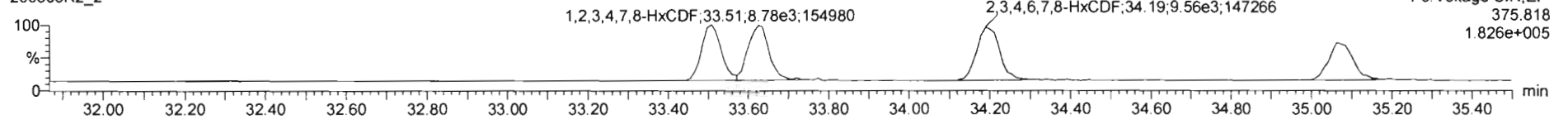
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1,2,3,4,7,8-HxCDF

200306R2_2

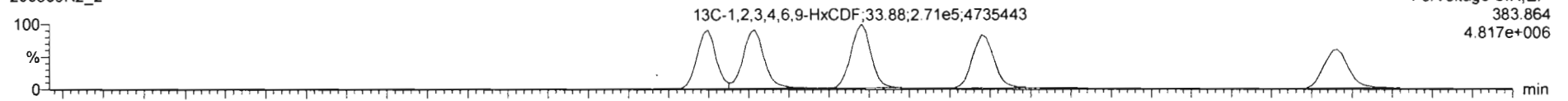


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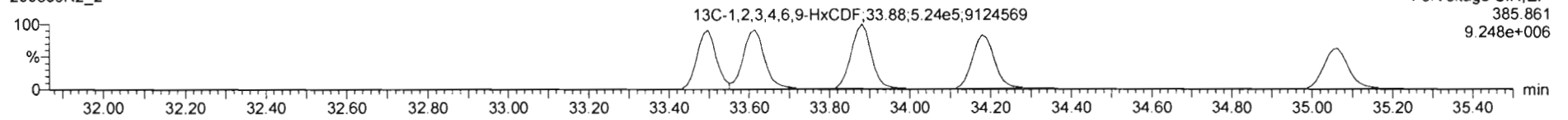


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200306R2_2

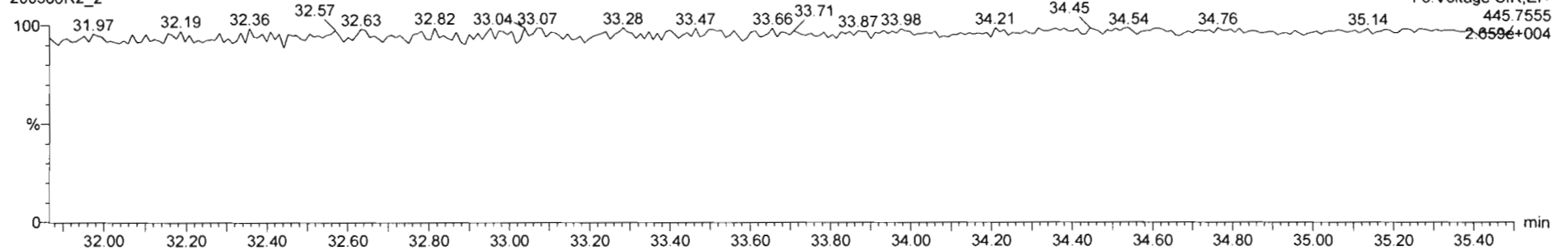


200306R2_2



DPE3

200306R2_2



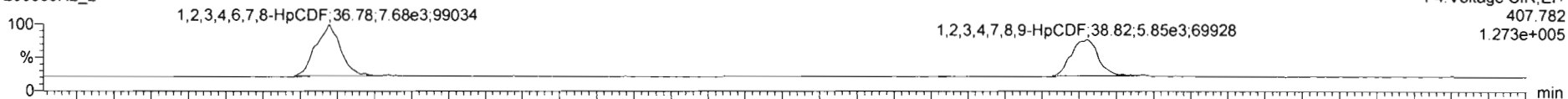
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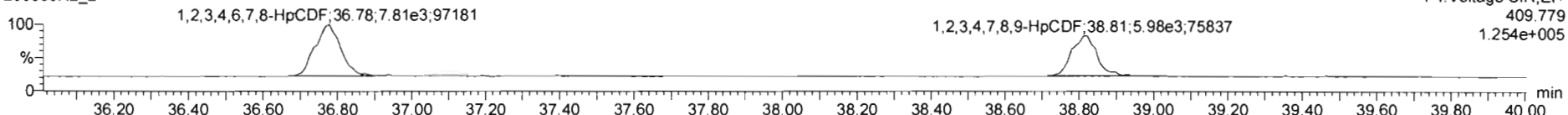
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1,2,3,4,6,7,8-HpCDF

200306R2_2

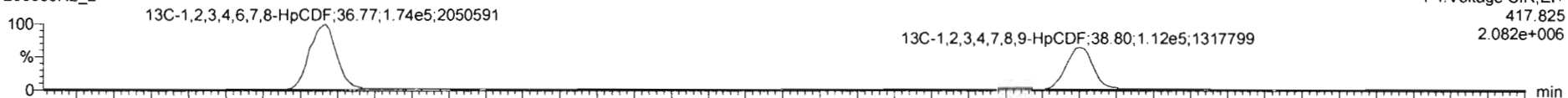


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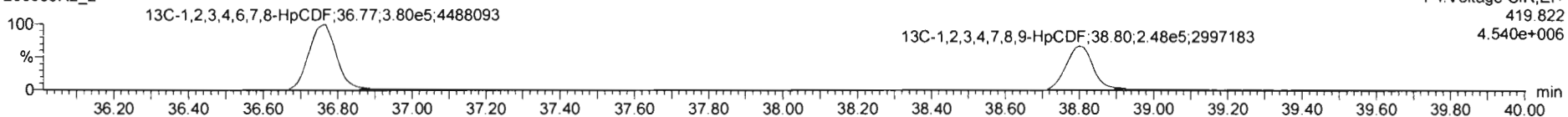


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200306R2_2

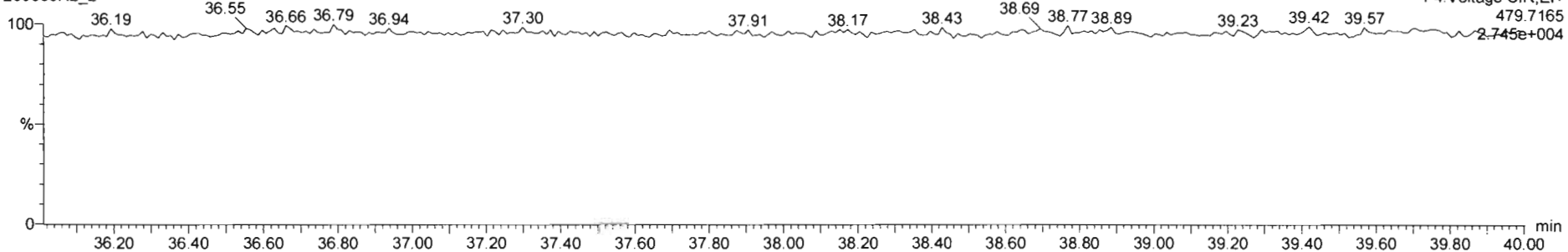


200306R2_2



DPE4

200306R2_2



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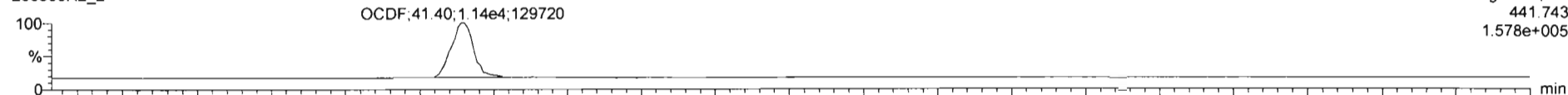
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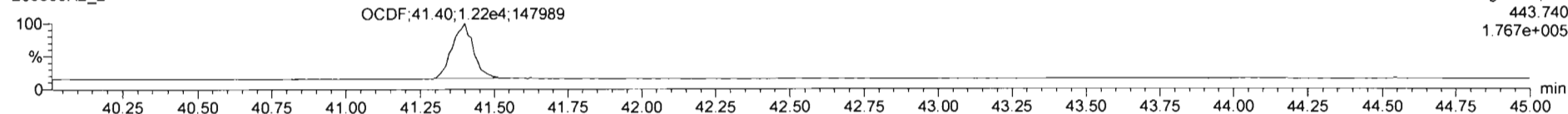
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OCDF

200306R2_2

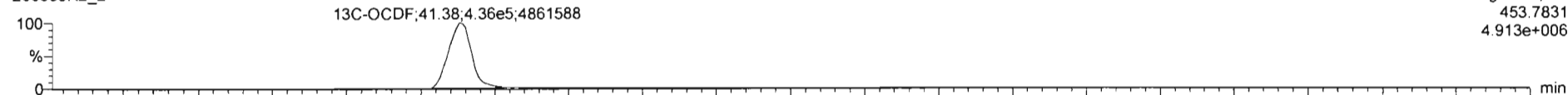


200306R2_2

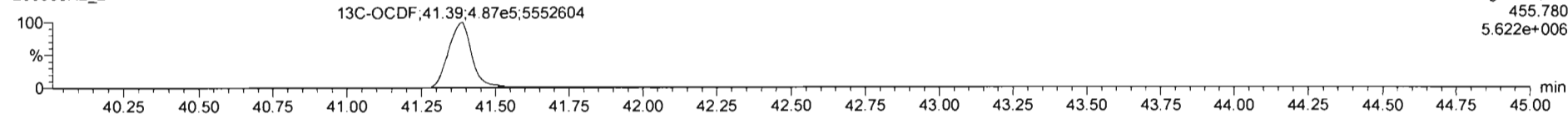


13C-OCDF

200306R2_2

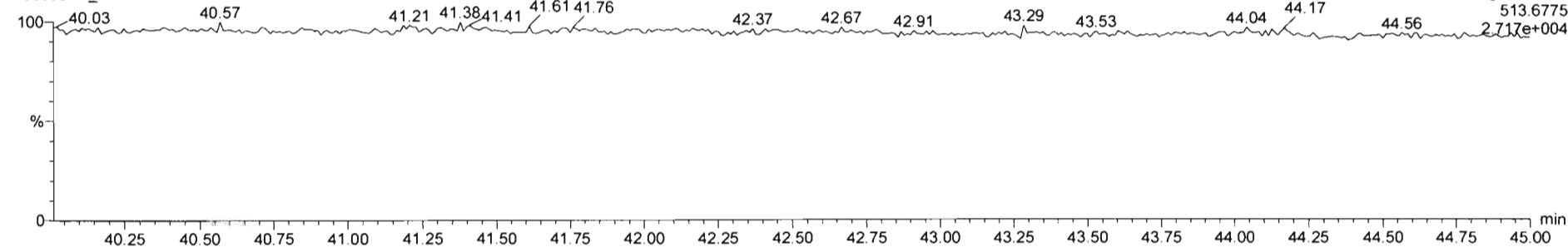


200306R2_2



DPE5

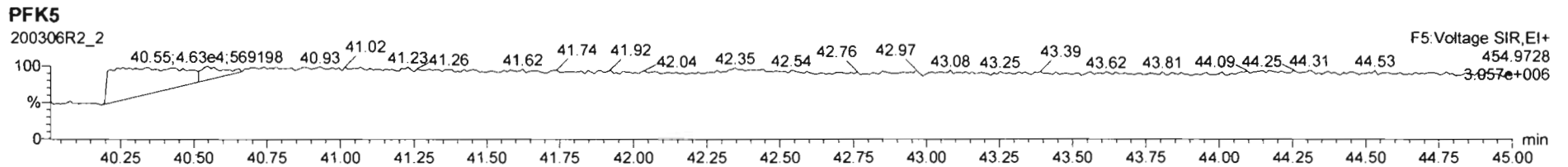
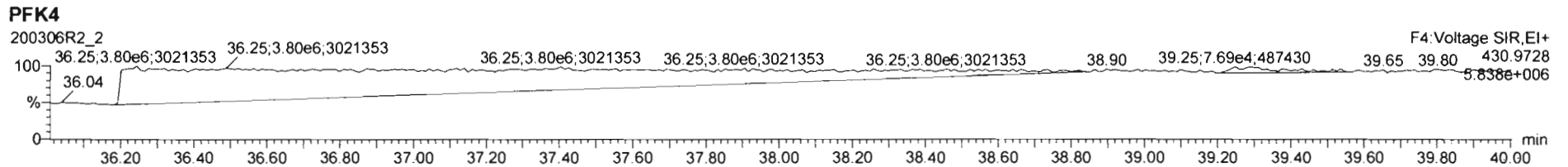
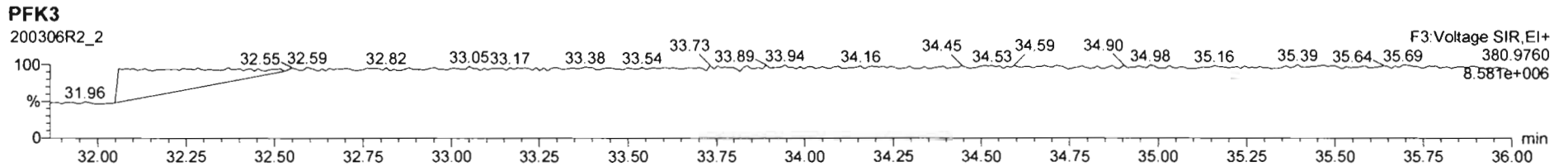
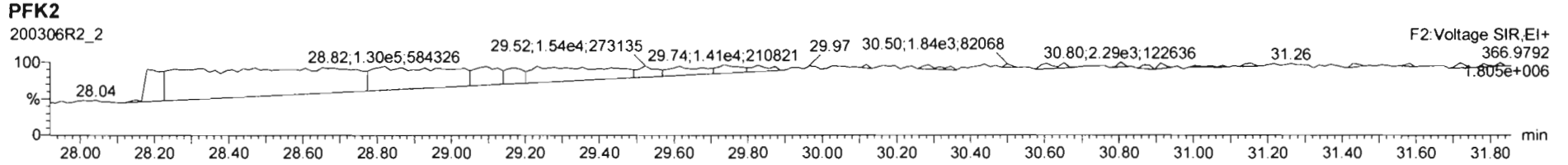
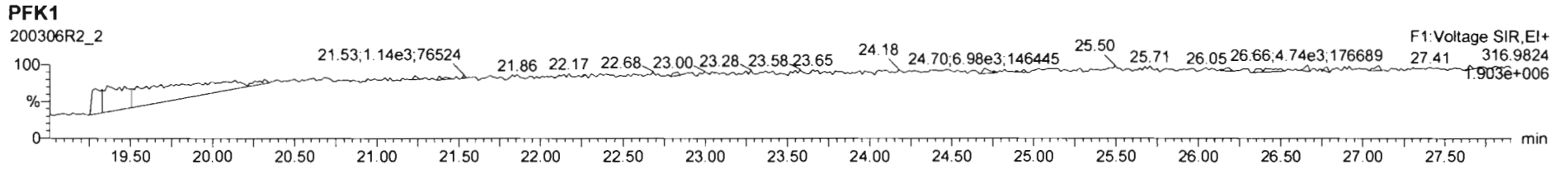
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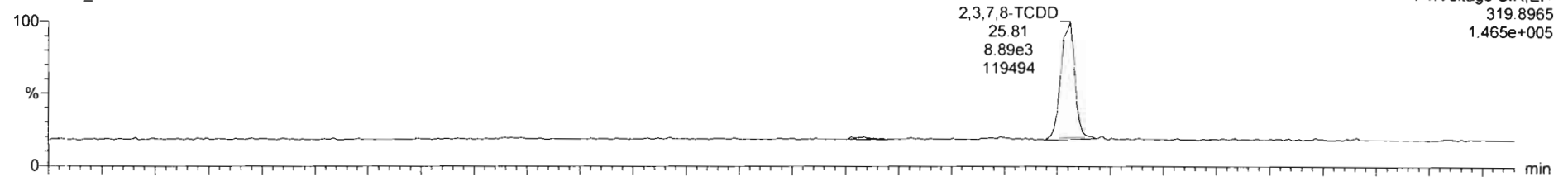
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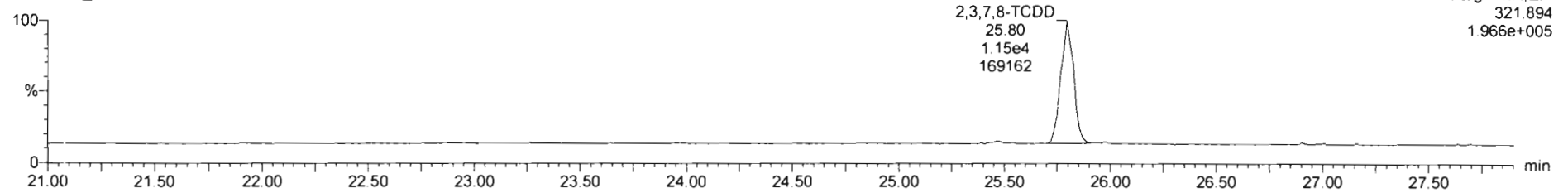
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2,3,7,8-TCDD

200306R2_3

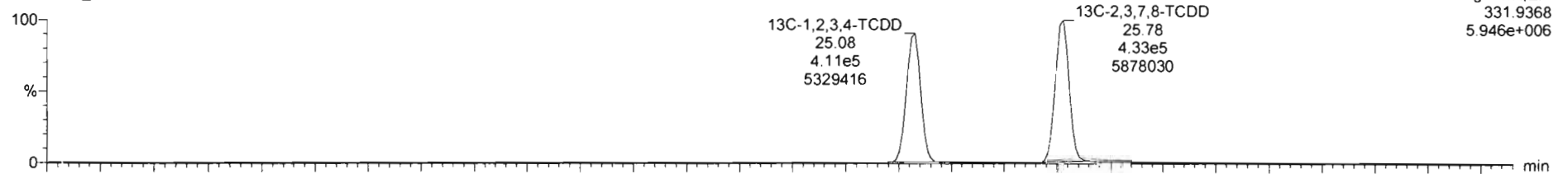


200306R2_3

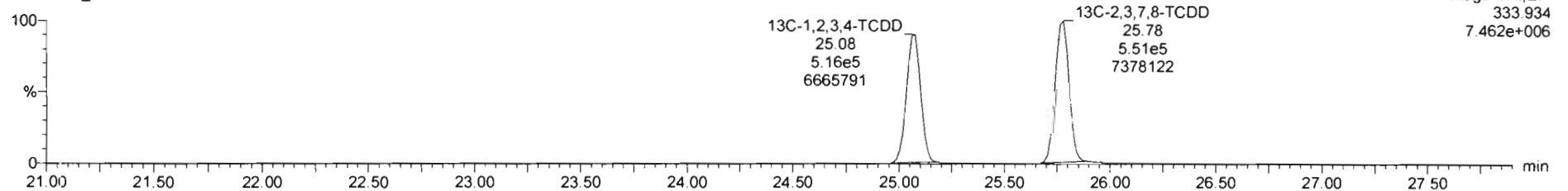


13C-2,3,7,8-TCDD

200306R2_3



200306R2_3



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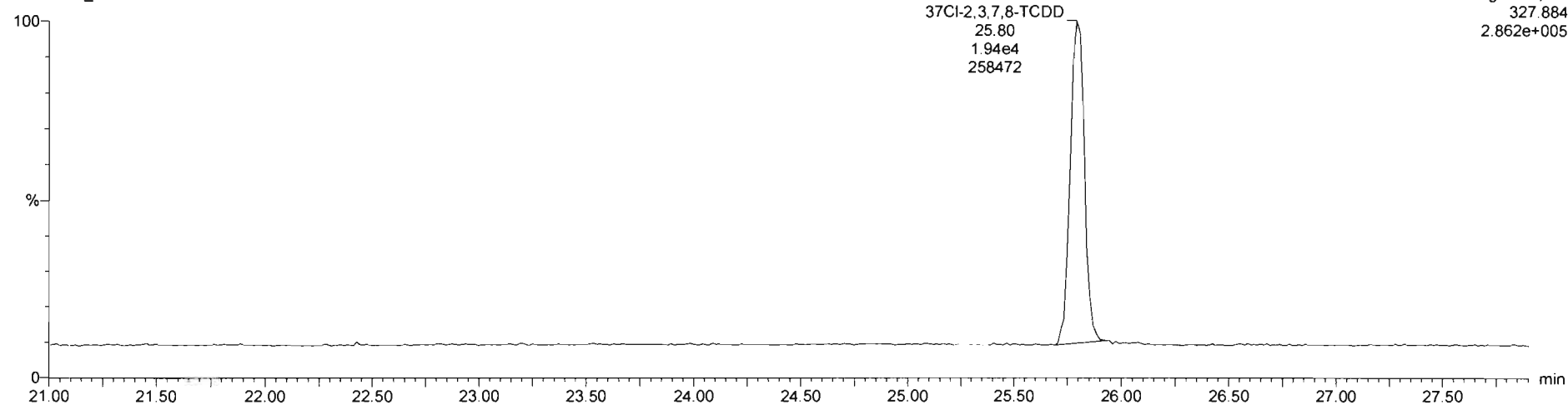
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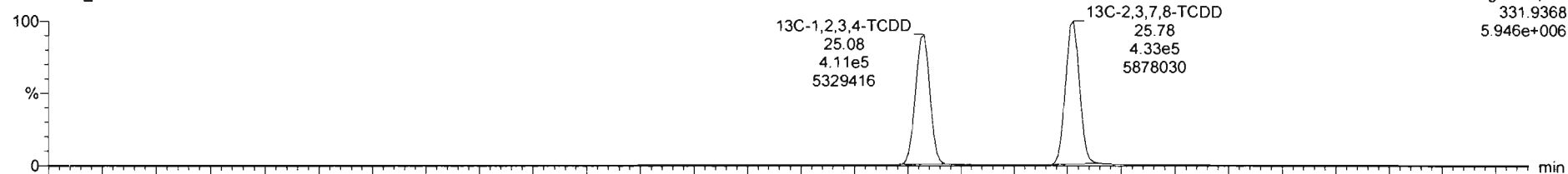
37Cl-2,3,7,8-TCDD

200306R2_3

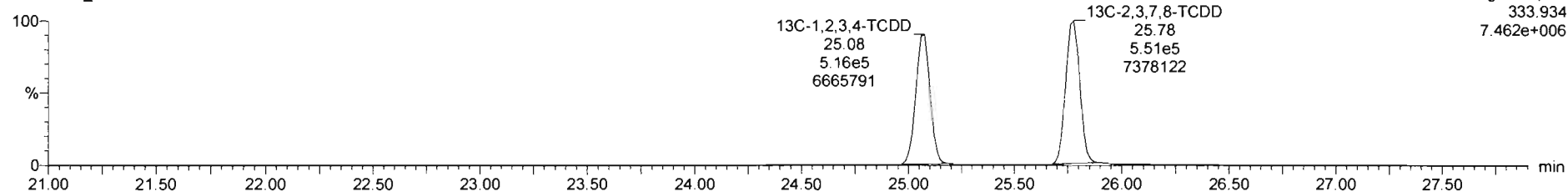


13C-1,2,3,4-TCDD

200306R2_3



200306R2_3



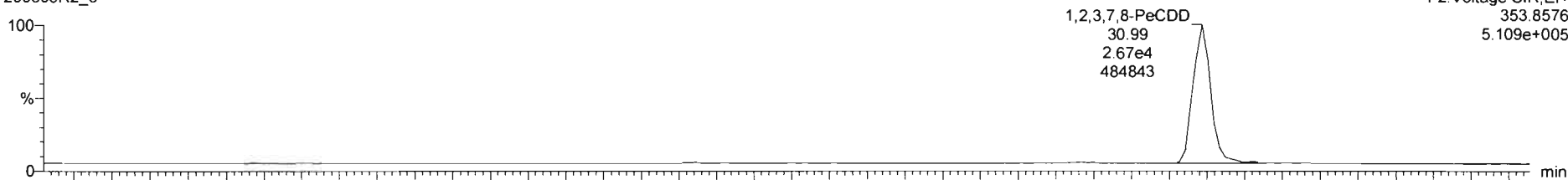
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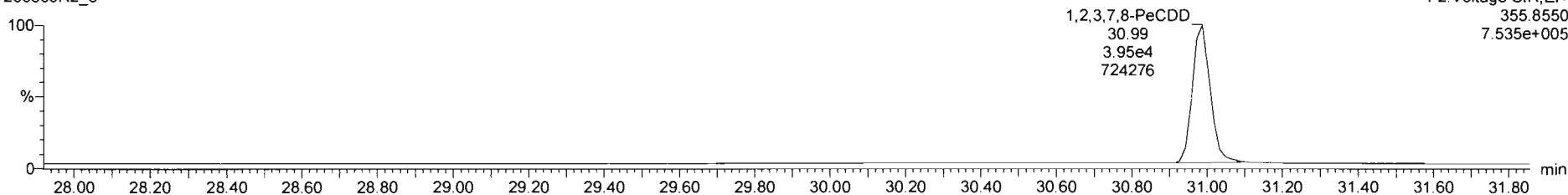
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1,2,3,7,8-PeCDD

200306R2_3

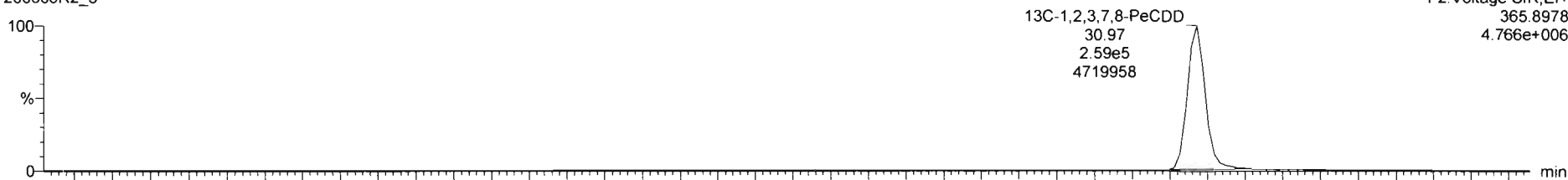


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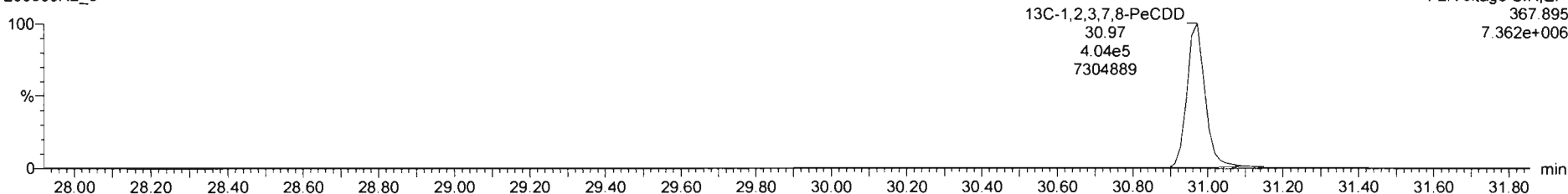


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200306R2_3



200306R2_3



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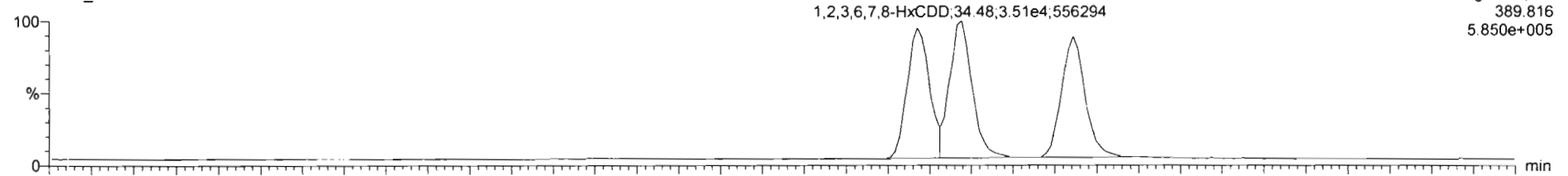
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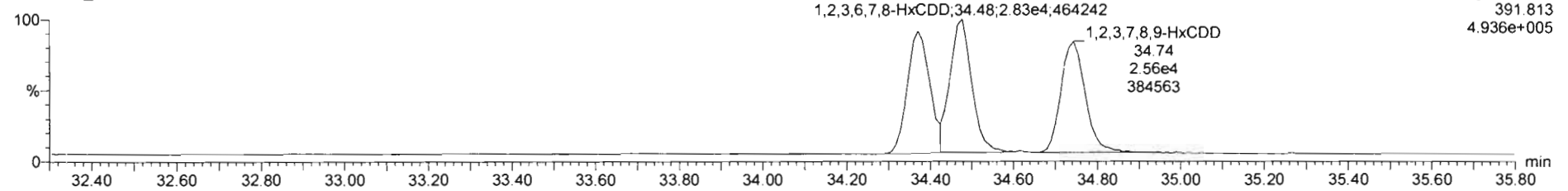
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1,2,3,4,7,8-HxCDD

200306R2_3

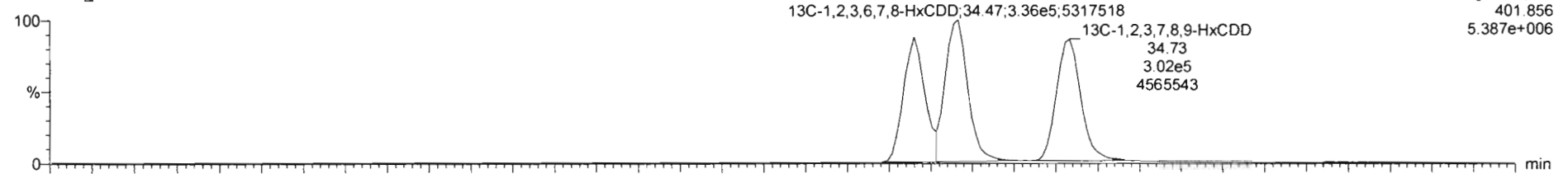


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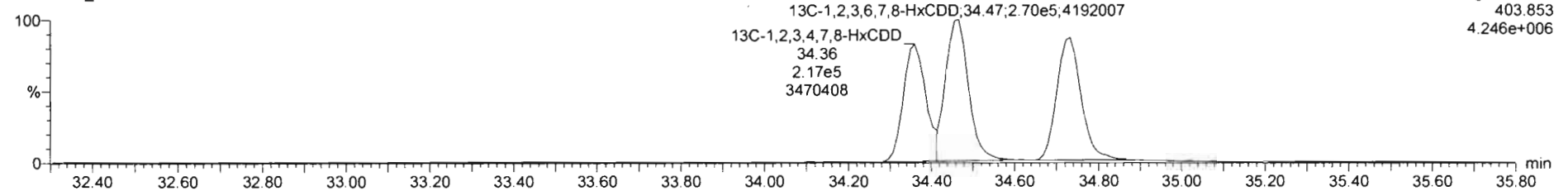


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200306R2_3



200306R2_3



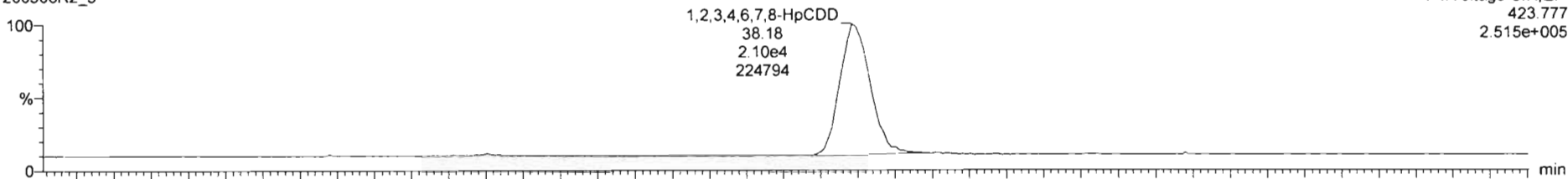
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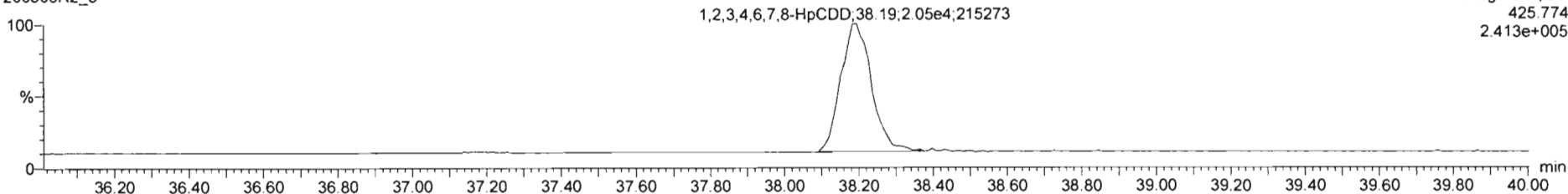
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1,2,3,4,6,7,8-HpCDD

200306R2_3

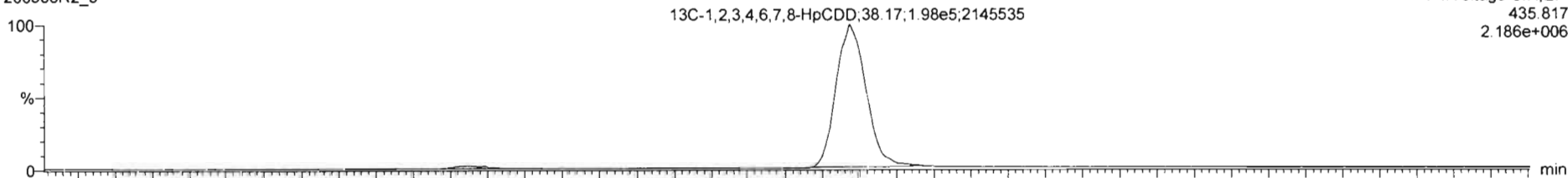


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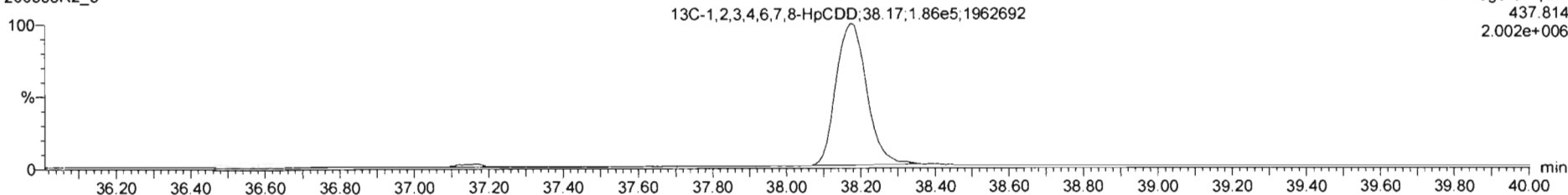


13C-1,2,3,4,6,7,8-HpCDD

200306R2_3



200306R2_3



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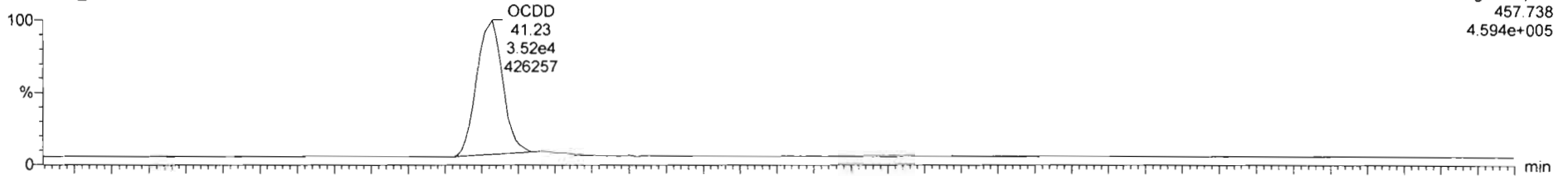
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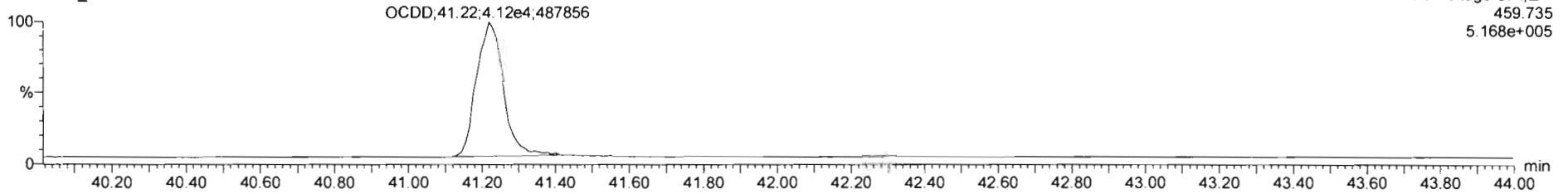
OCDD

200306R2_3



F5:Voltage SIR,EI+
457.738
4.594e+005

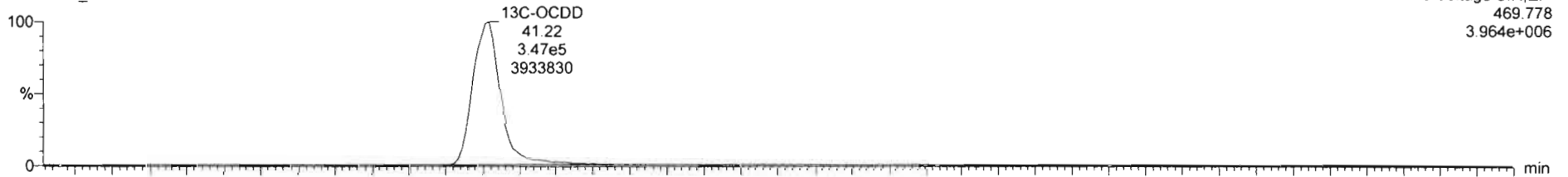
200306R2_3



F5:Voltage SIR,EI+
459.735
5.168e+005

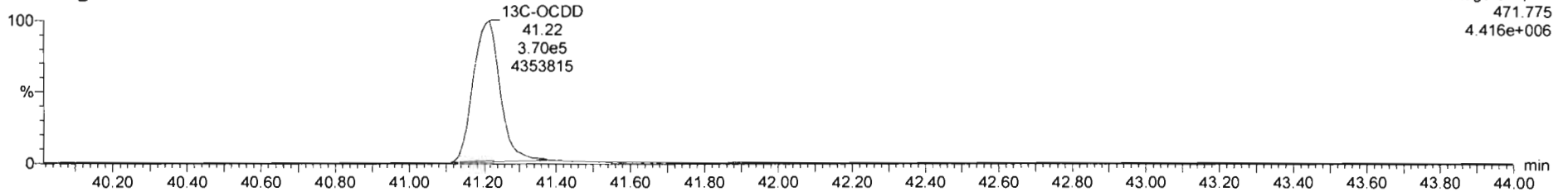
13C-OCDD

200306R2_3



F5:Voltage SIR,EI+
469.778
3.964e+006

200306R2_3



F5:Voltage SIR,EI+
471.775
4.416e+006

Dataset: Untitled

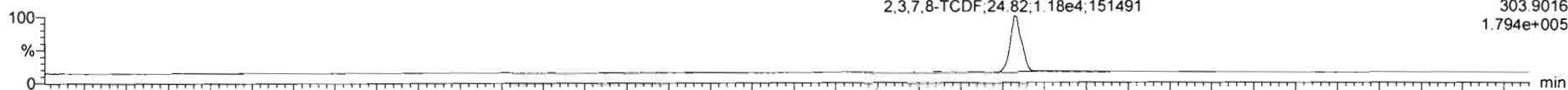
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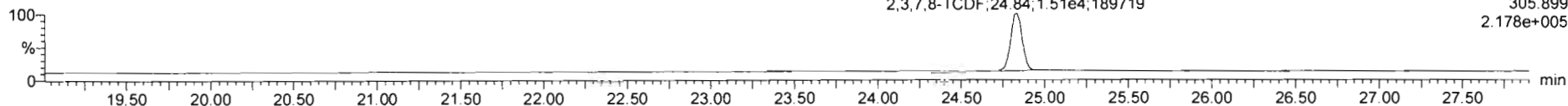
2,3,7,8-TCDF

200306R2_3



F1:Voltage SIR,EI+
303.9016
1.794e+005

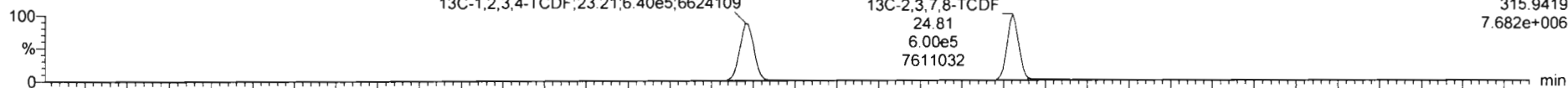
200306R2_3



F1:Voltage SIR,EI+
305.899
2.178e+005

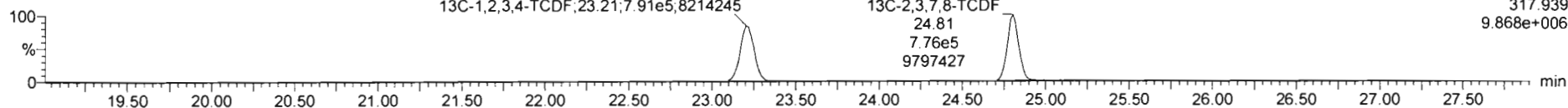
13C-2,3,7,8-TCDF

200306R2_3



F1:Voltage SIR,EI+
315.9419
7.682e+006

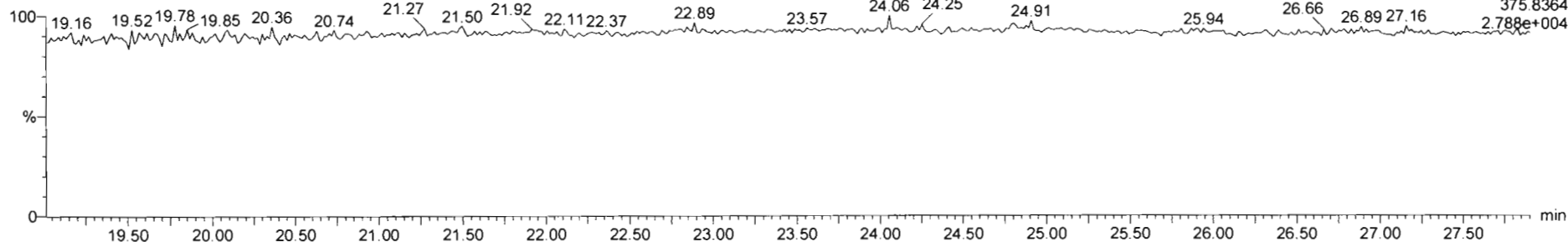
200306R2_3



F1:Voltage SIR,EI+
317.939
9.868e+006

DPE1

200306R2_3



F1:Voltage SIR,EI+
375.8364
2.788e+004

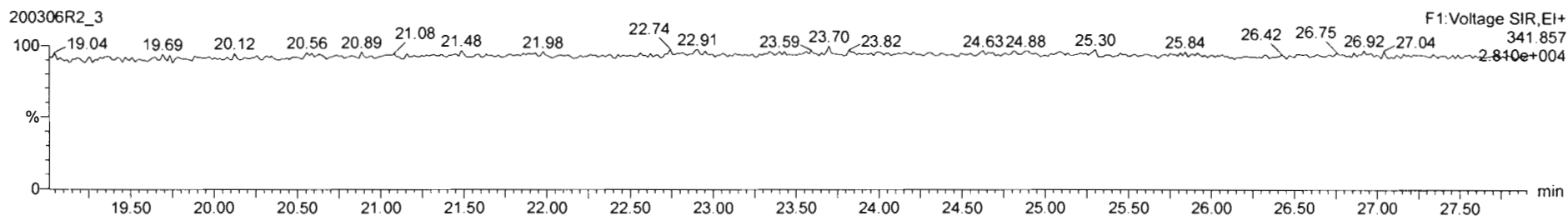
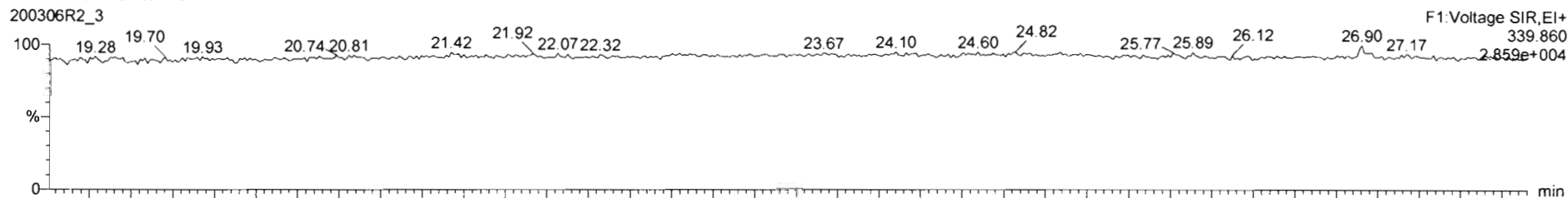
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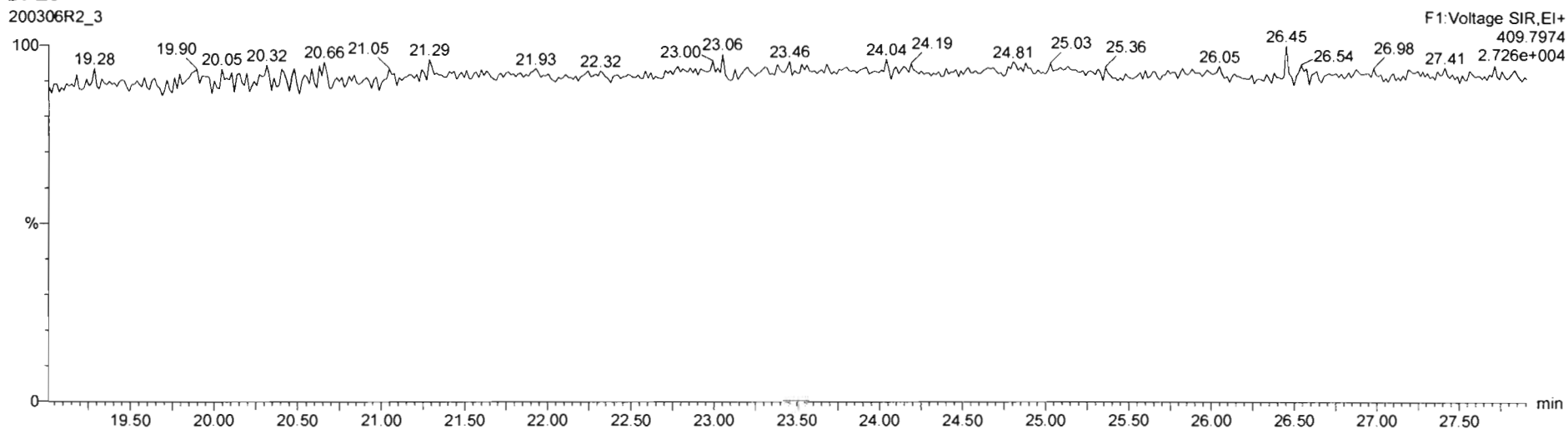
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1st Func. Penta-Furans



DPE6



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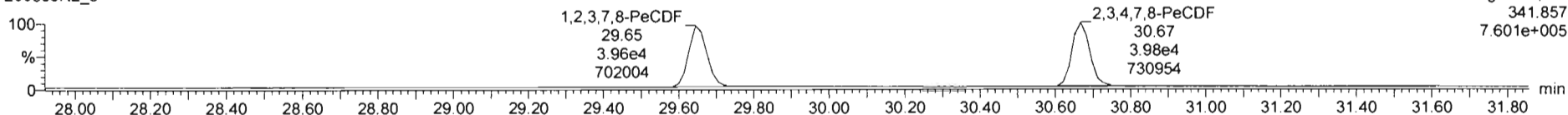
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1,2,3,7,8-PeCDF

200306R2_3

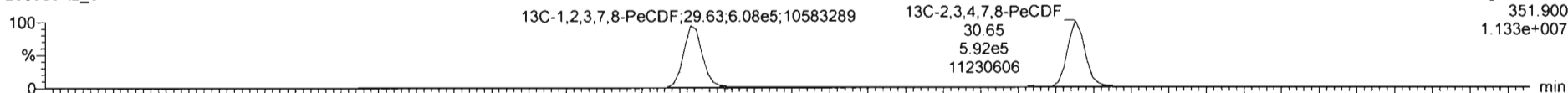


200306R2_3

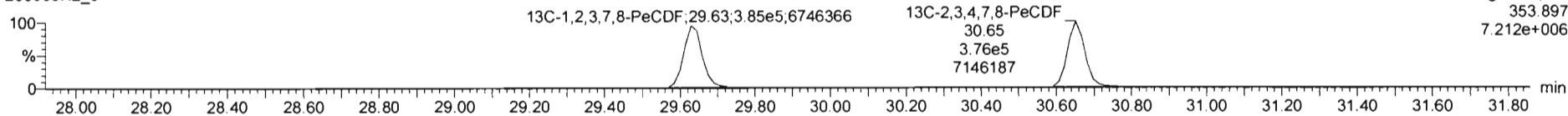


13C-1,2,3,7,8-PeCDF

200306R2_3

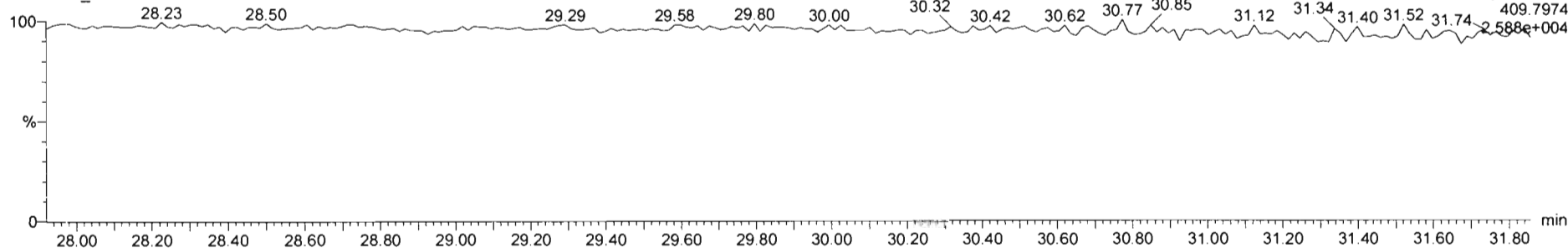


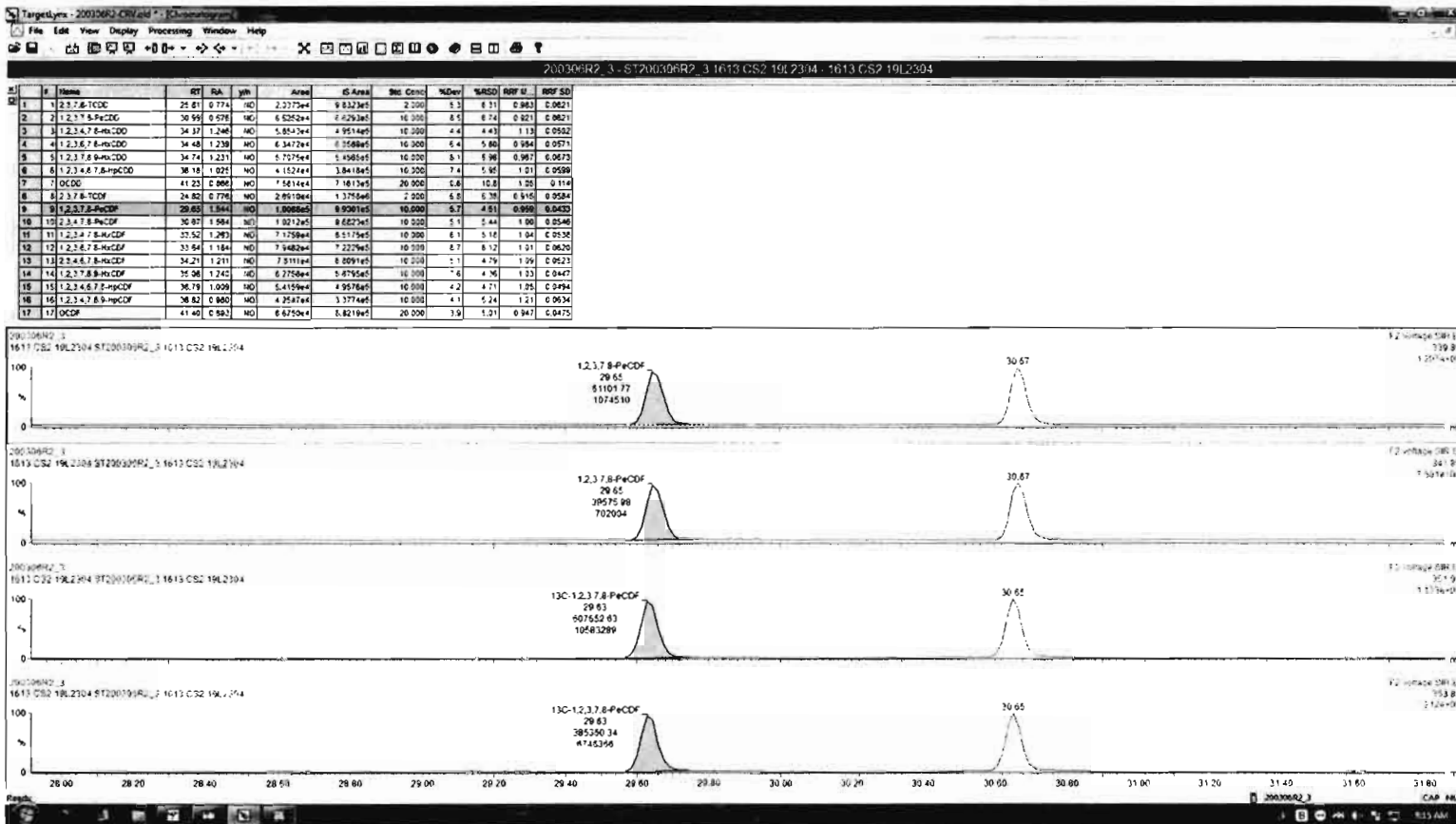
200306R2_3



DPE2

200306R2_3





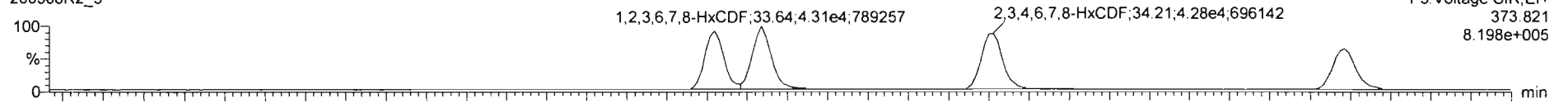
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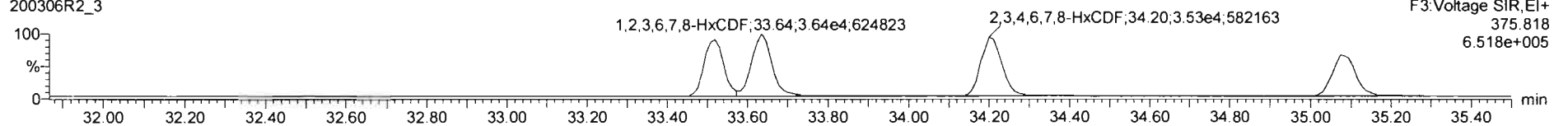
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1,2,3,4,7,8-HxCDF

200306R2_3

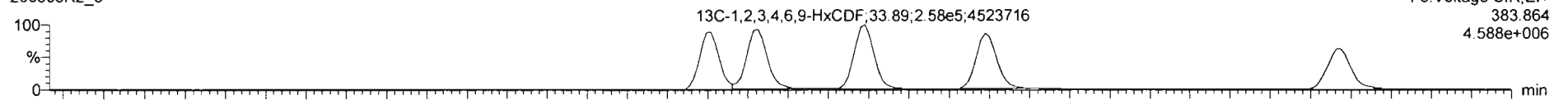


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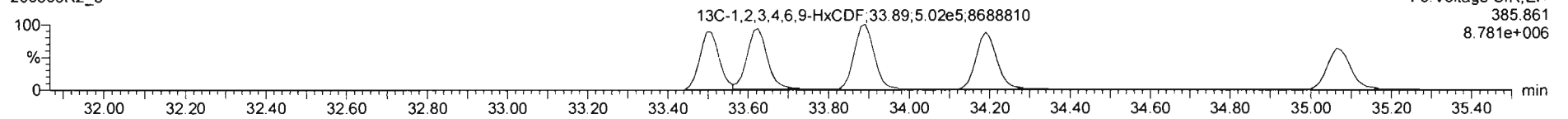


13C-1,2,3,4,7,8-HxCDF

200306R2_3

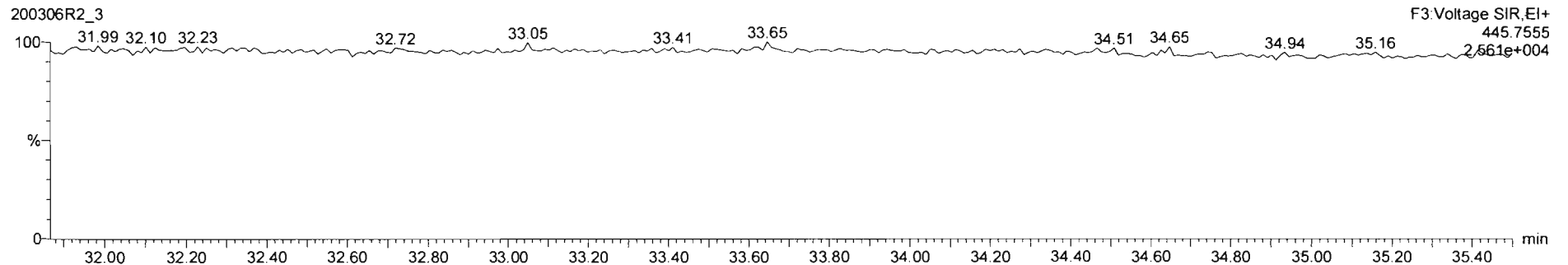


200306R2_3



DPE3

200306R2_3



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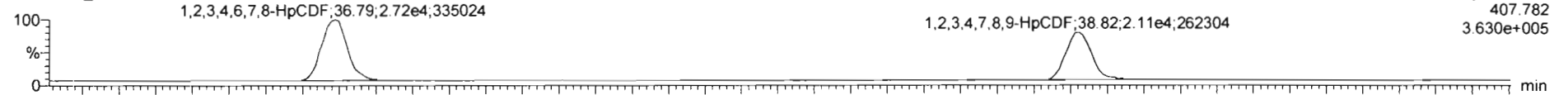
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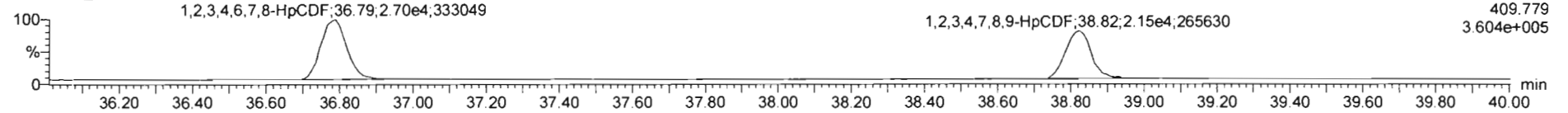
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1,2,3,4,6,7,8-HpCDF

200306R2_3

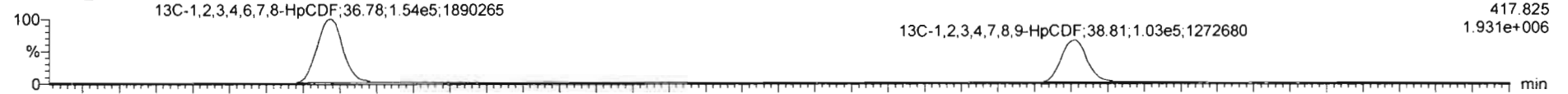


200306R2_3

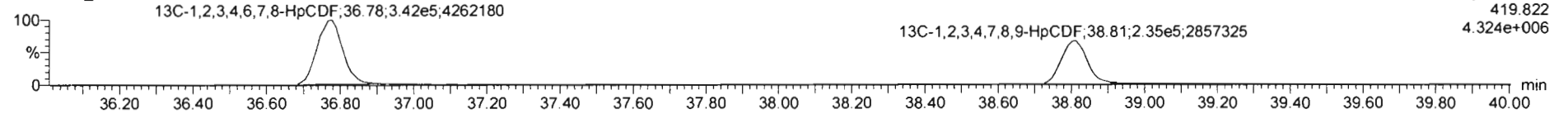


13C-1,2,3,4,6,7,8-HpCDF

200306R2_3

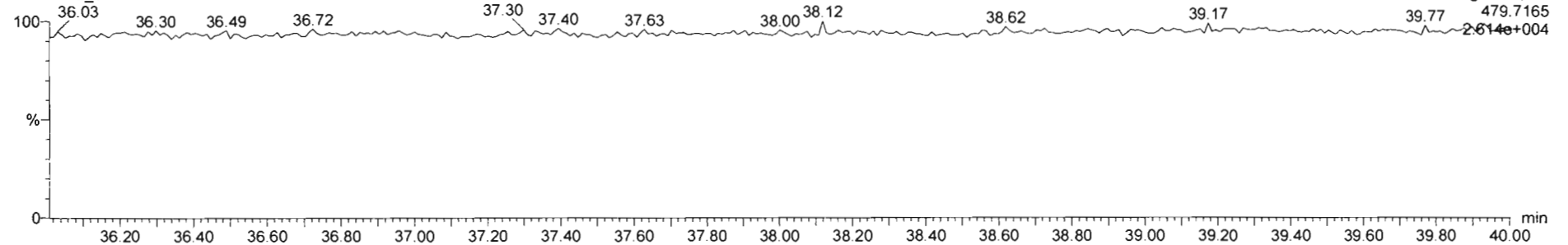


200306R2_3



DPE4

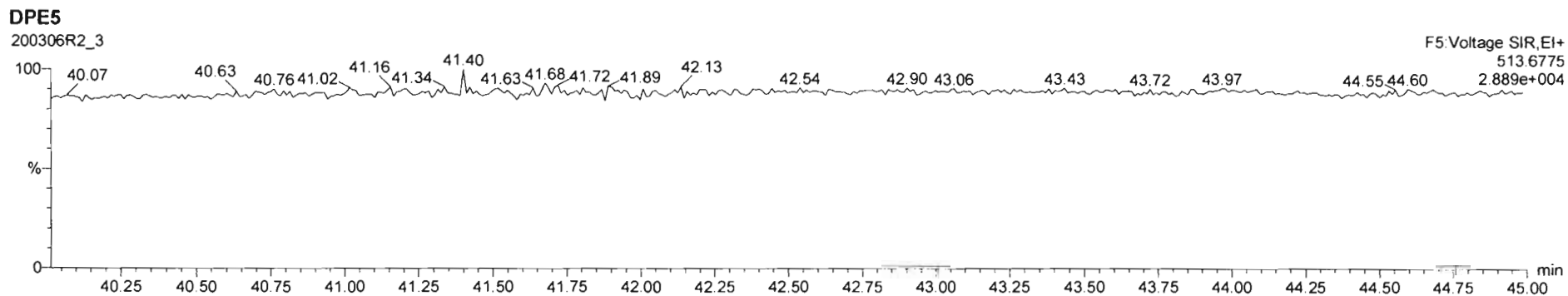
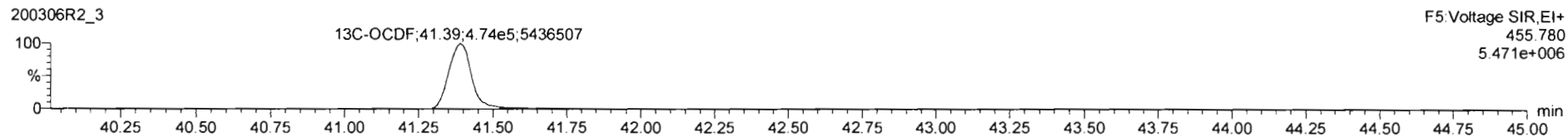
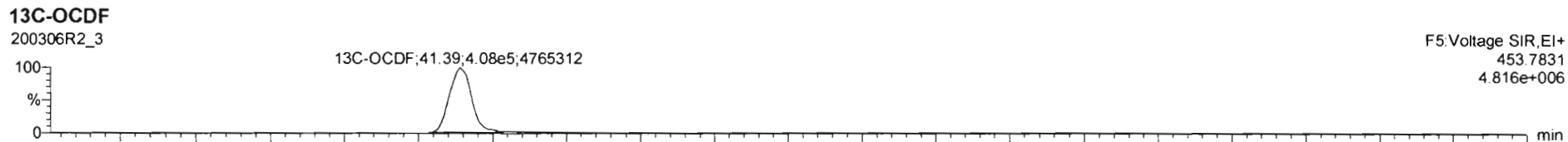
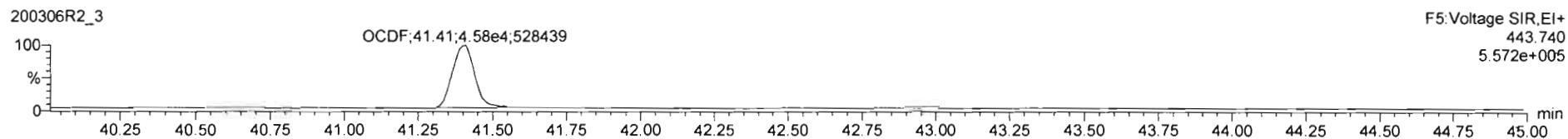
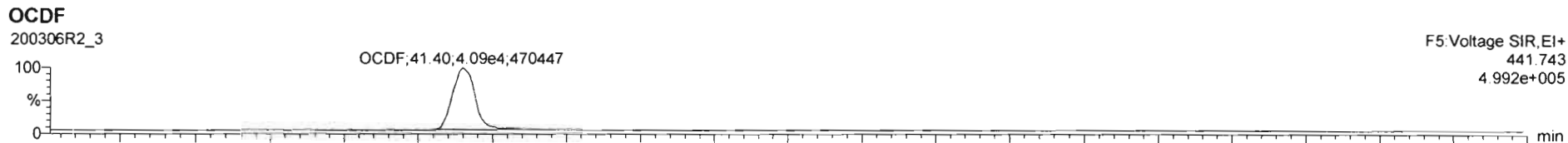
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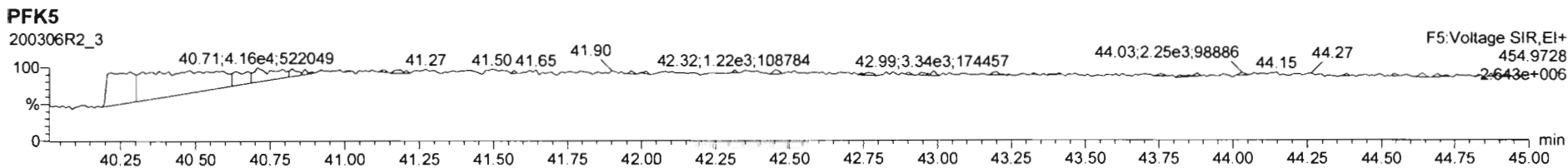
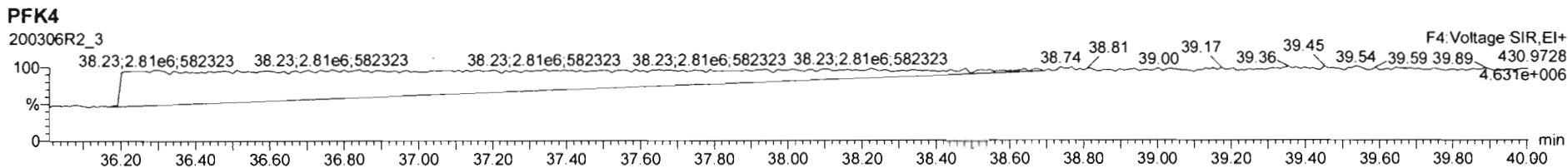
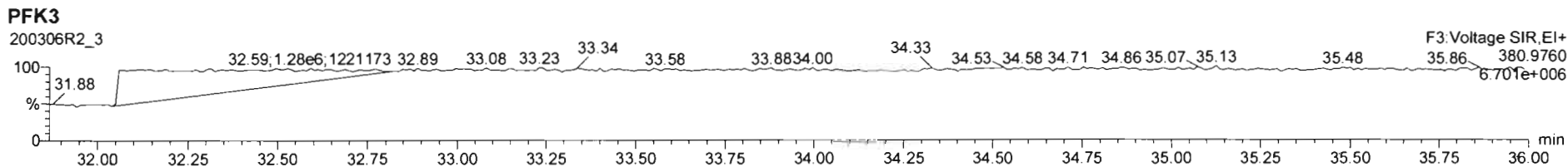
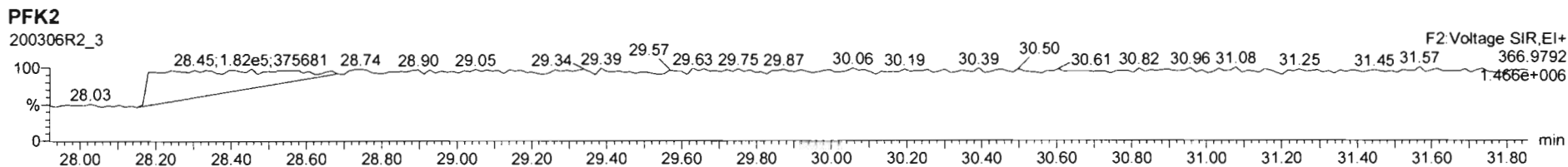
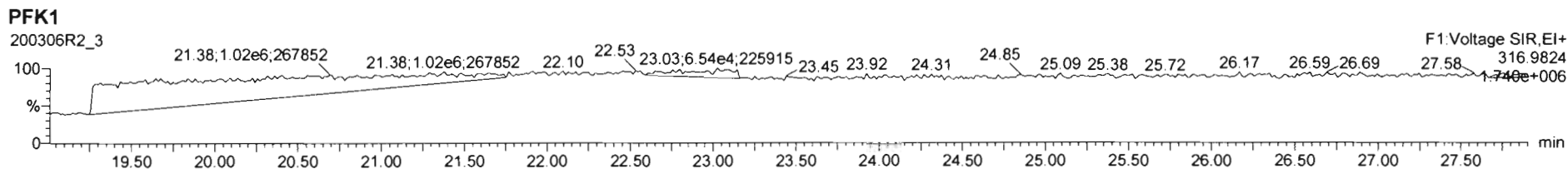


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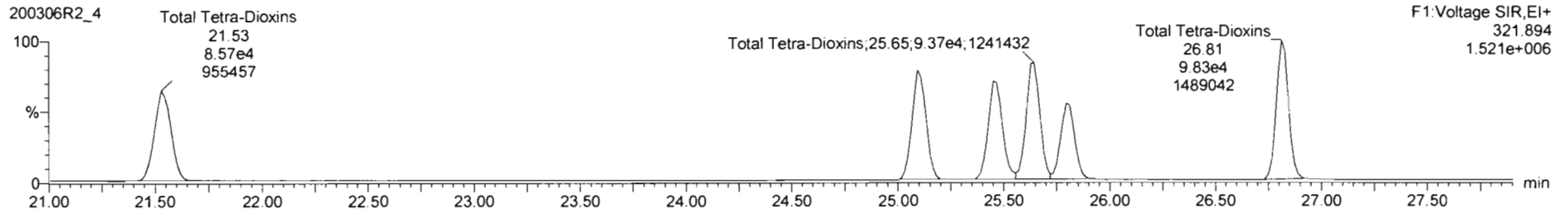
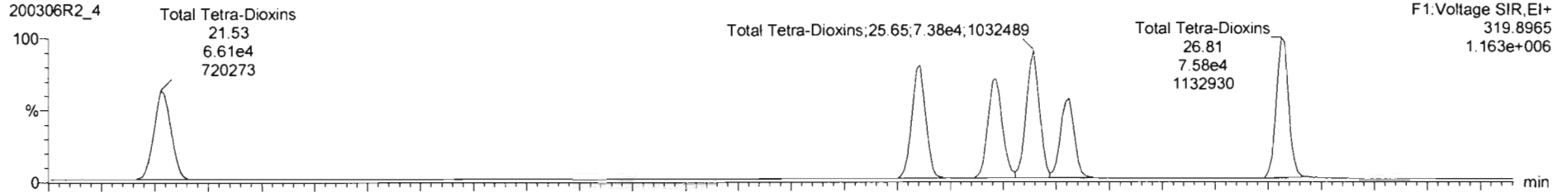


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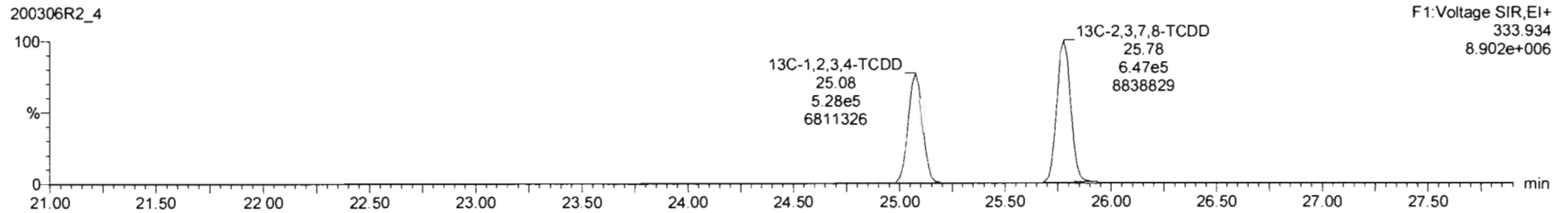
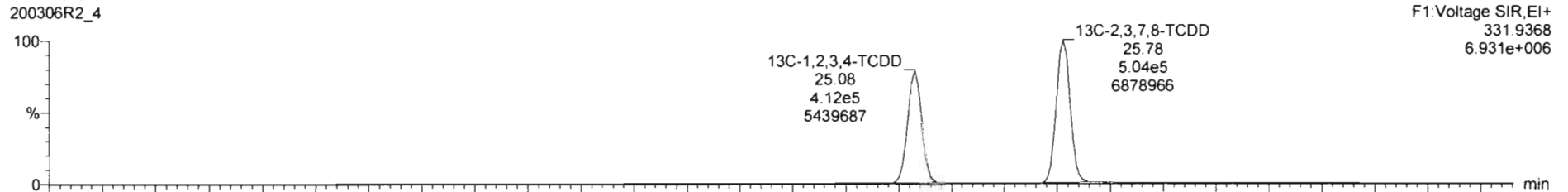
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2,3,7,8-TCDD



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



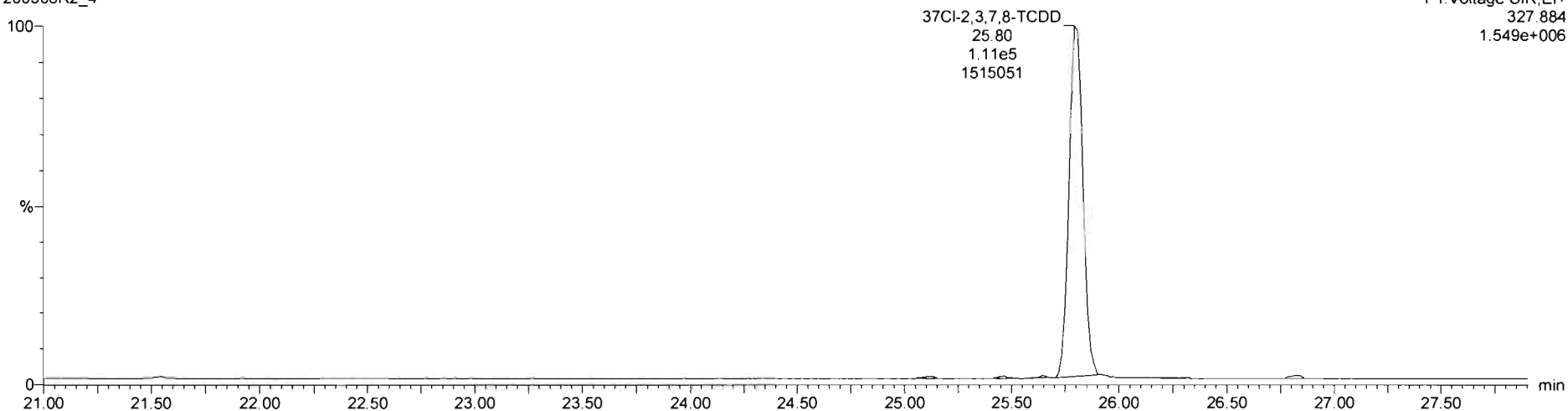
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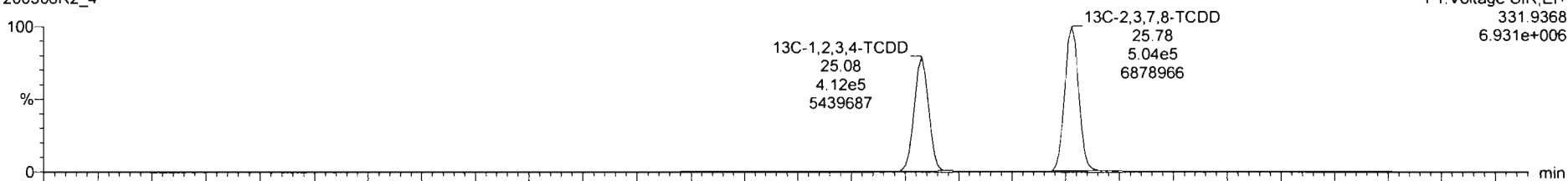
37Cl-2,3,7,8-TCDD

200306R2_4

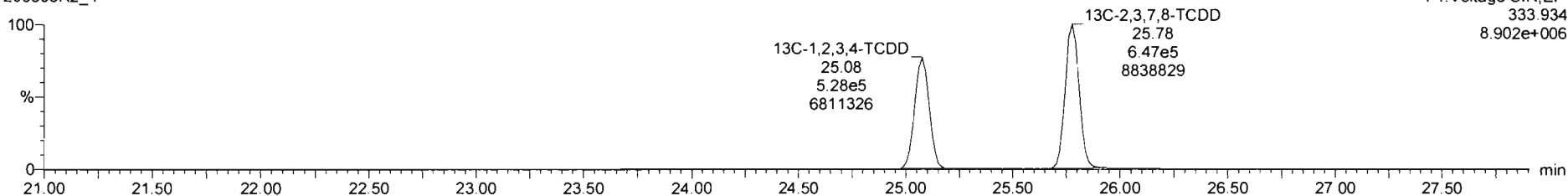


13C-1,2,3,4-TCDD

200306R2_4



200306R2_4



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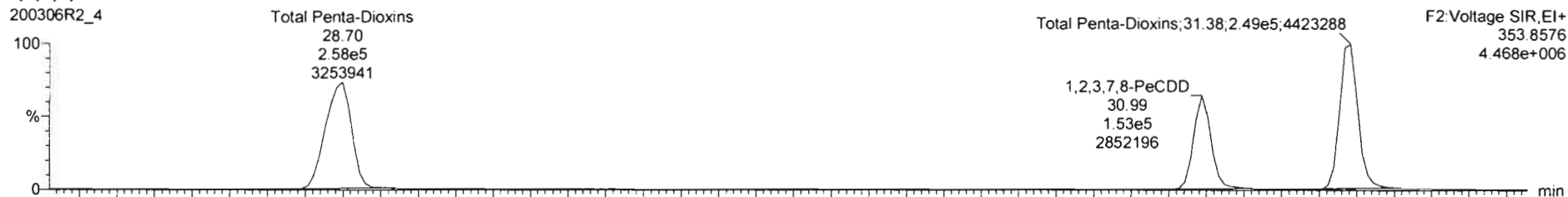
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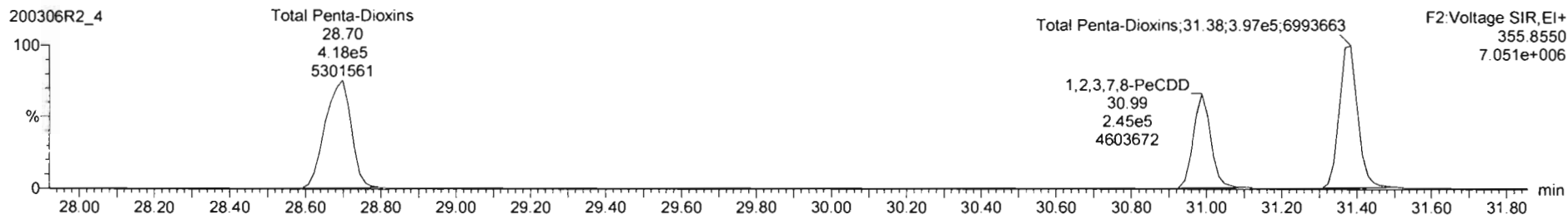
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1,2,3,7,8-PeCDD

200306R2_4

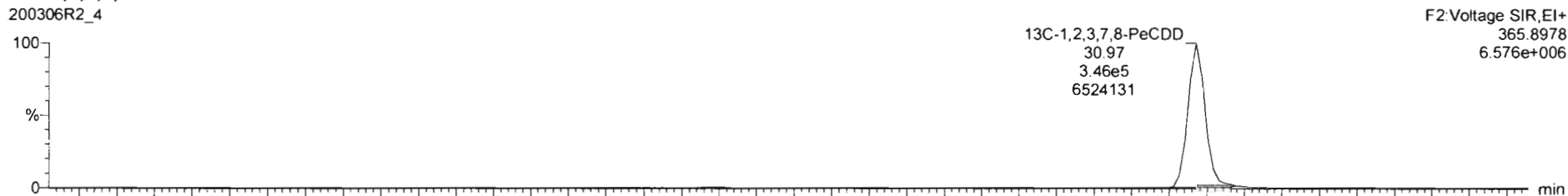


200306R2_4

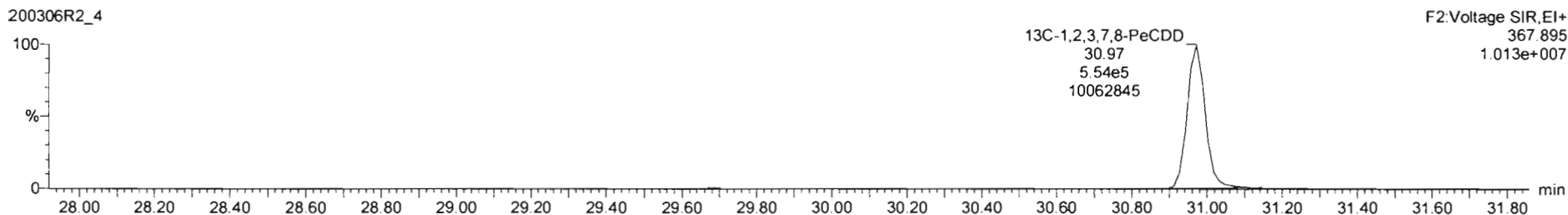


13C-1,2,3,7,8-PeCDD

200306R2_4



200306R2_4



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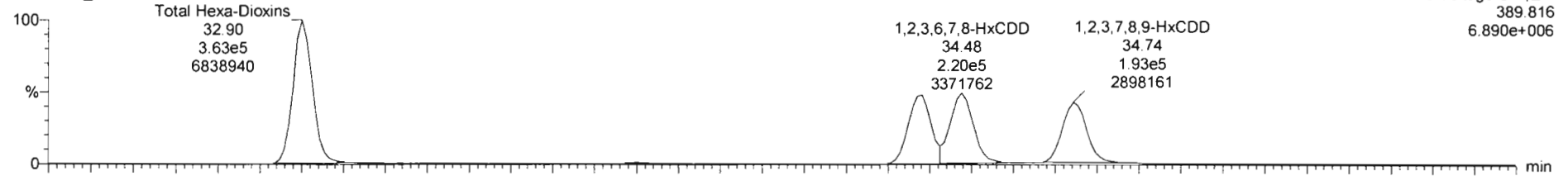
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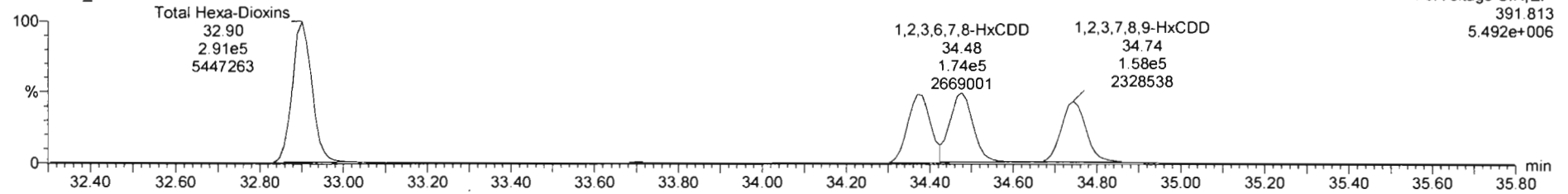
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1,2,3,4,7,8-HxCDD

200306R2_4

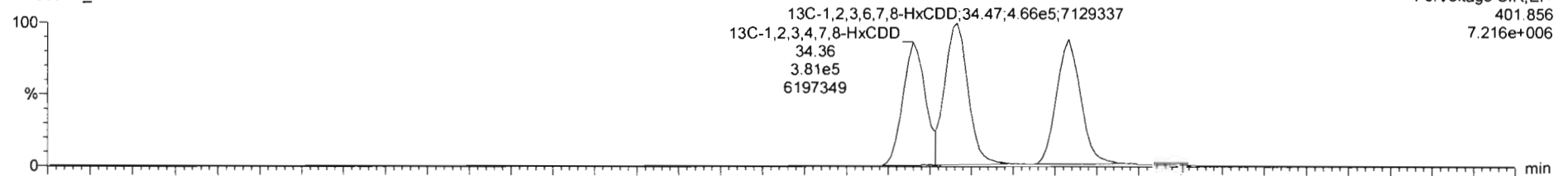


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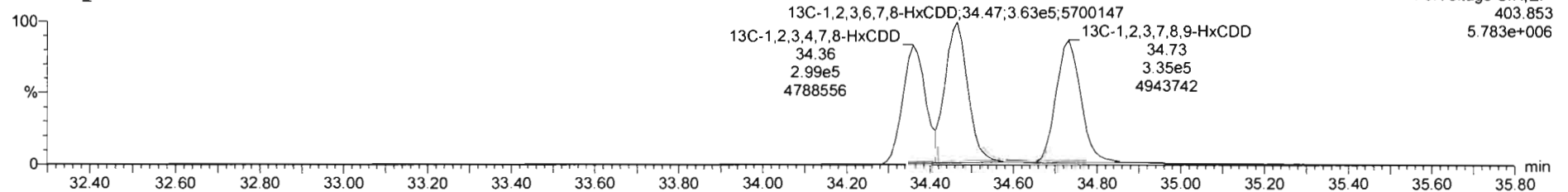


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200306R2_4



200306R2_4



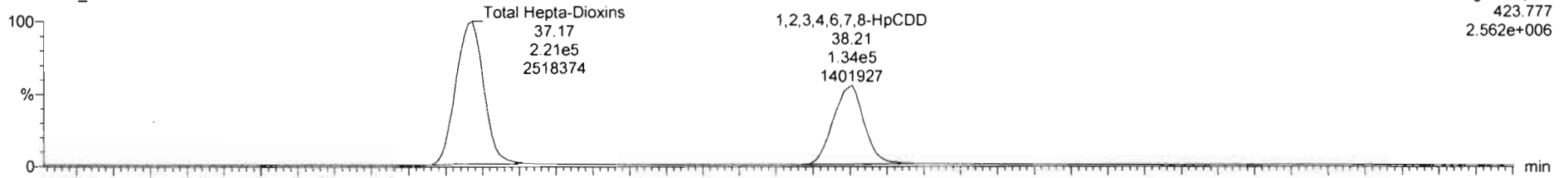
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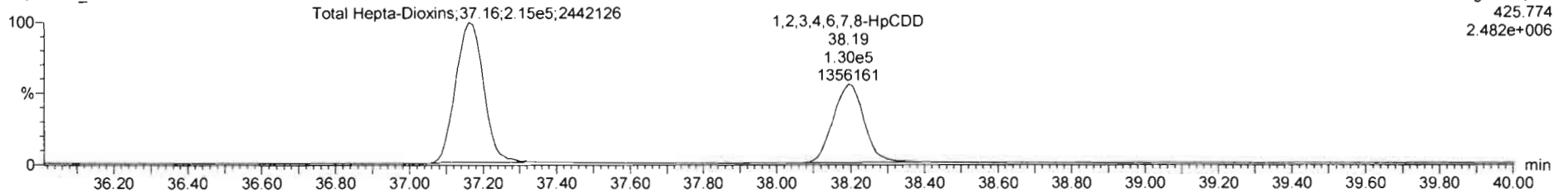
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1,2,3,4,6,7,8-HpCDD

200306R2_4

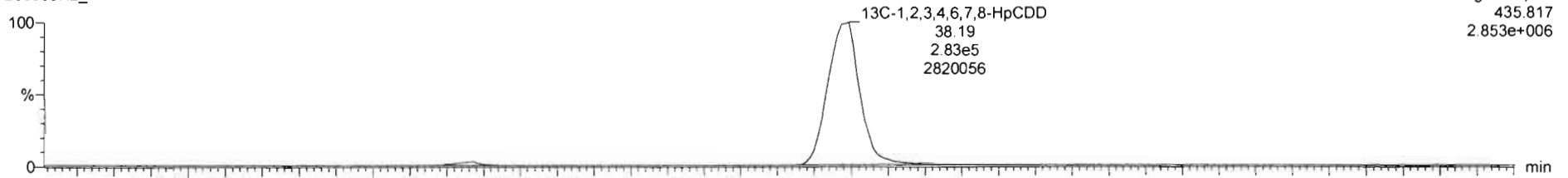


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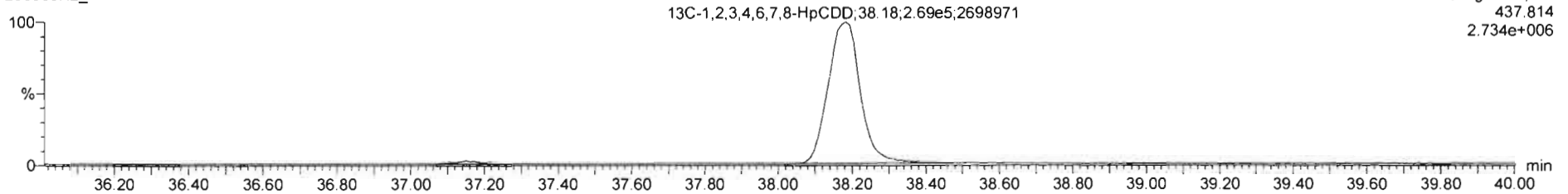


13C-1,2,3,4,6,7,8-HpCDD

200306R2_4



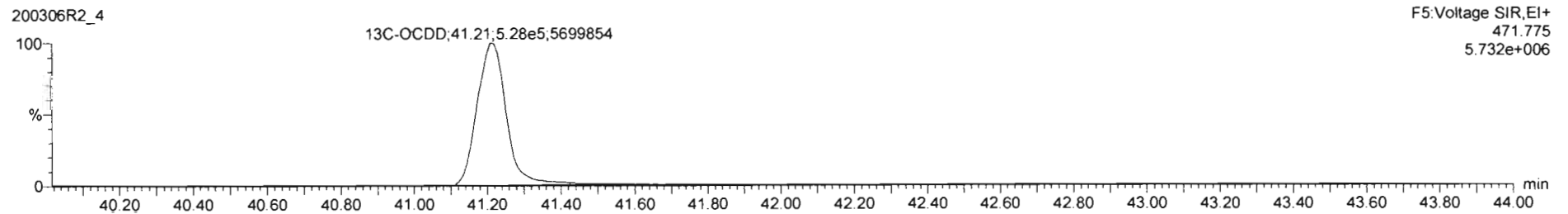
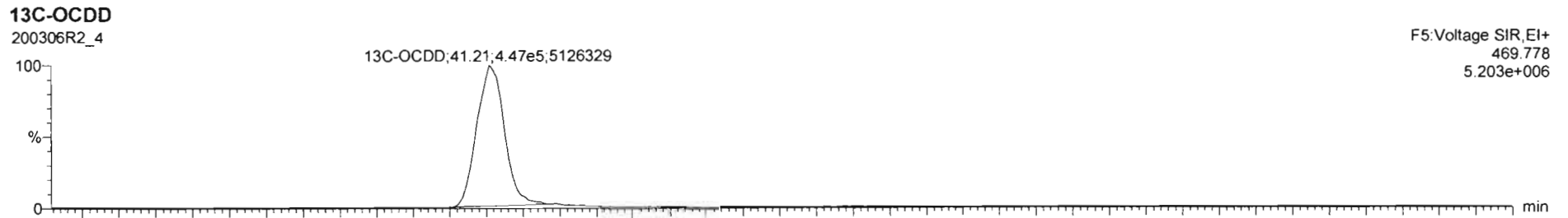
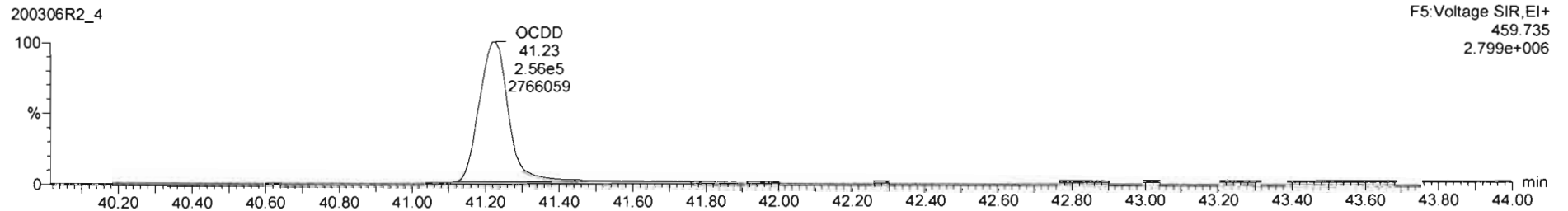
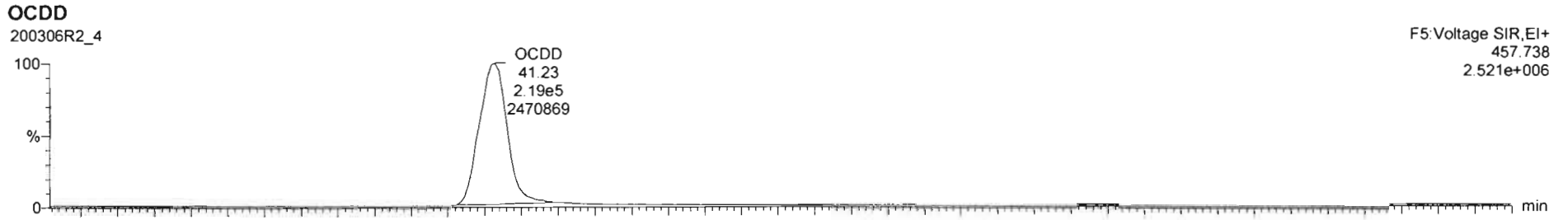
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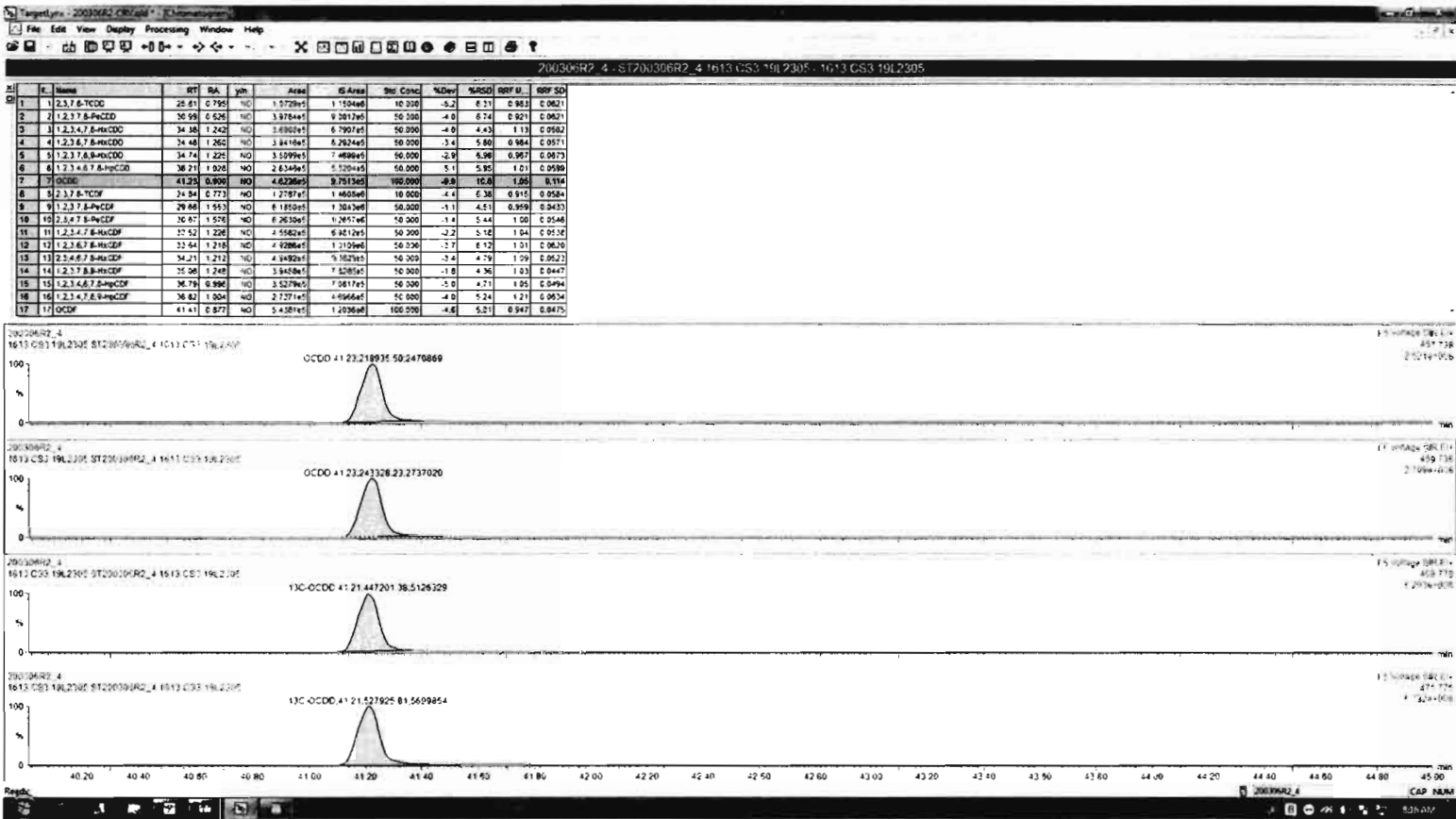


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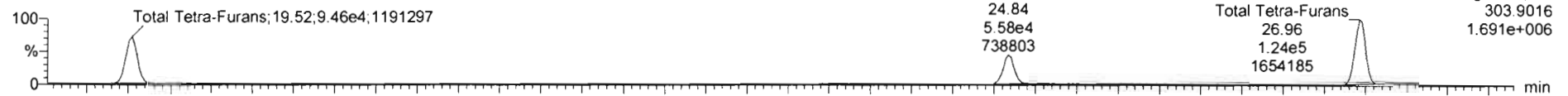
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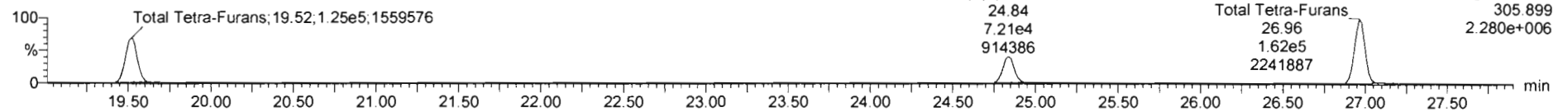
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2,3,7,8-TCDF

200306R2_4

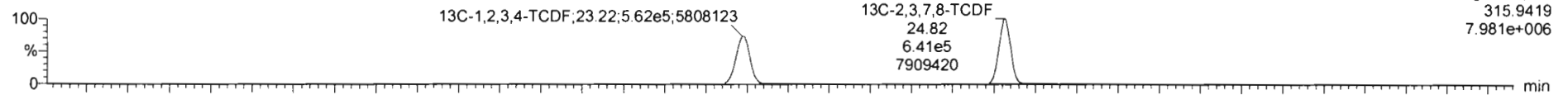


200306R2_4

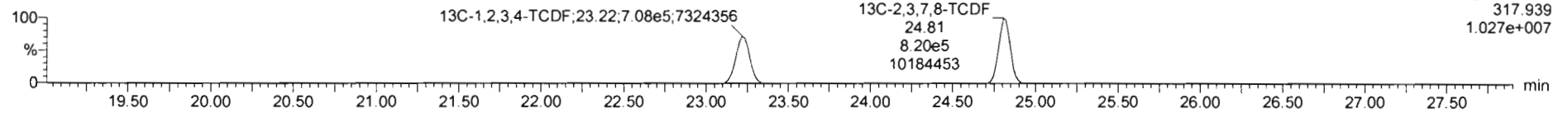


13C-2,3,7,8-TCDF

200306R2_4

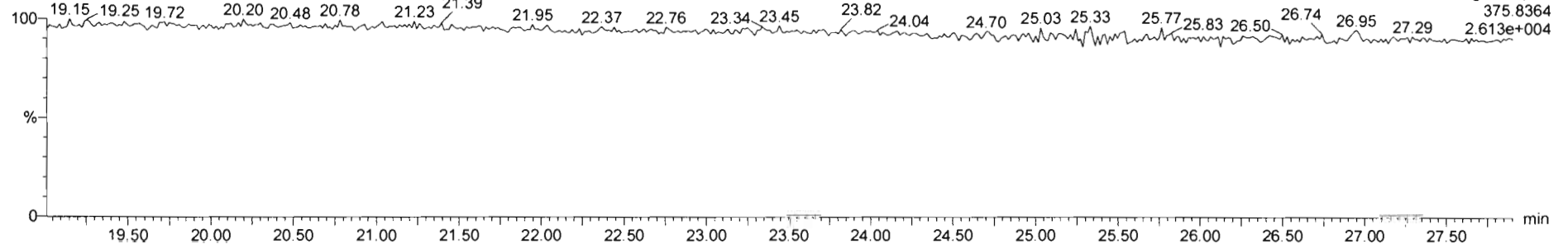


200306R2_4



DPE1

200306R2_4



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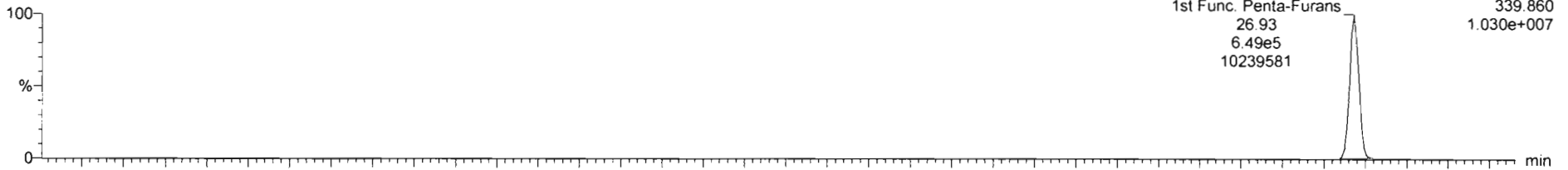
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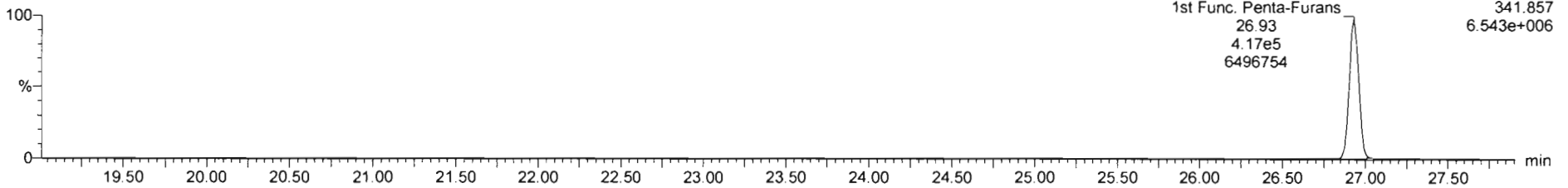
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200306R2_4

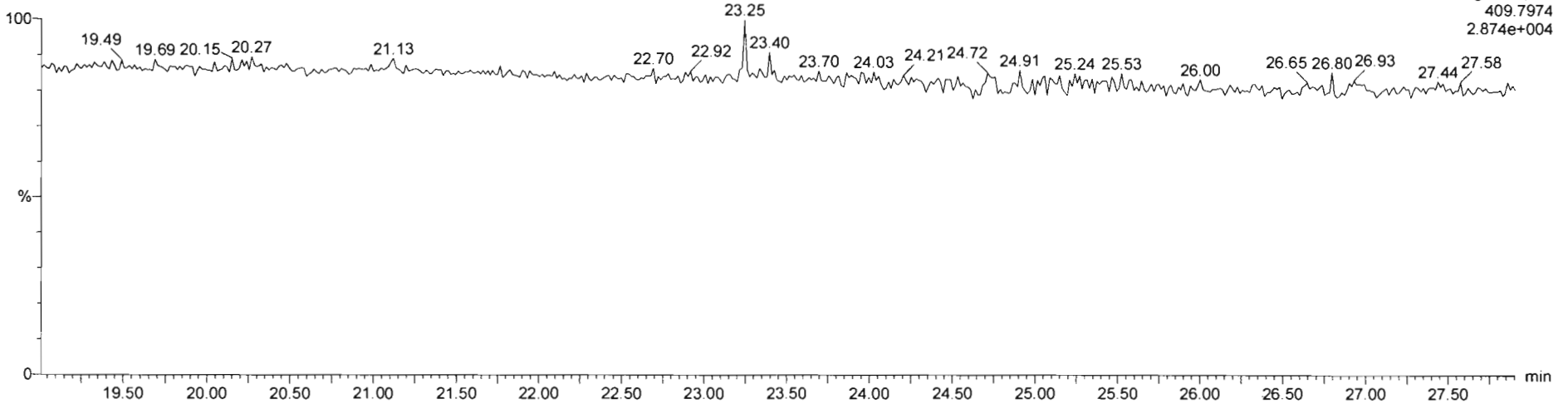


200306R2_4



DPE6

200306R2_4



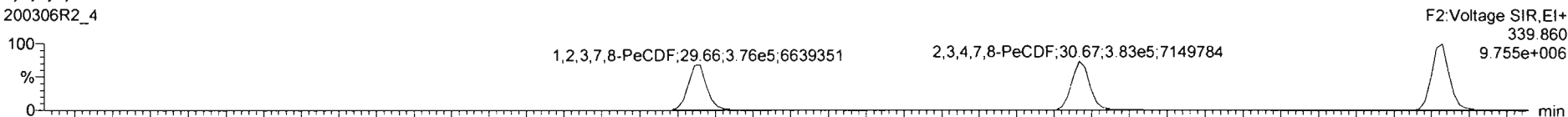
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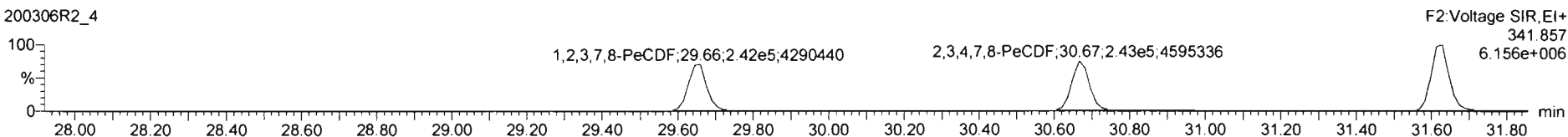
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1,2,3,7,8-PeCDF

200306R2_4

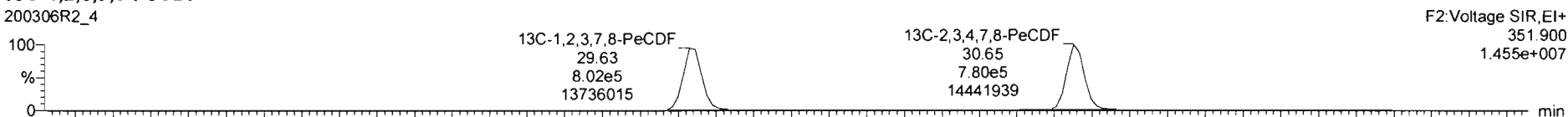


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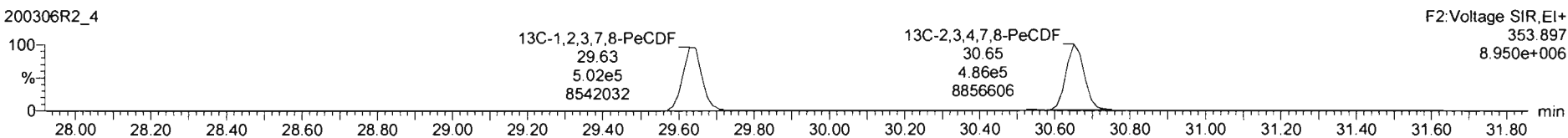


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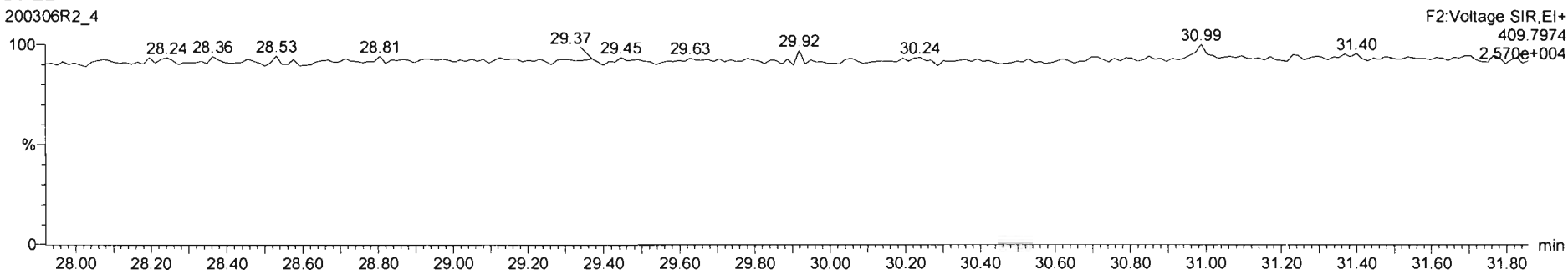


200306R2_4



DPE2

200306R2_4



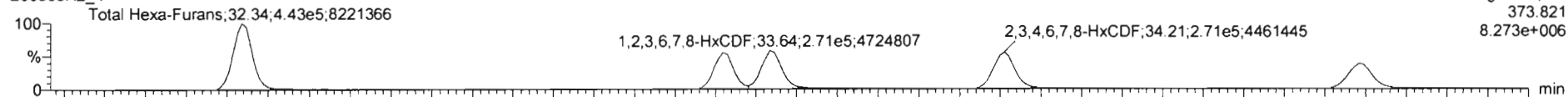
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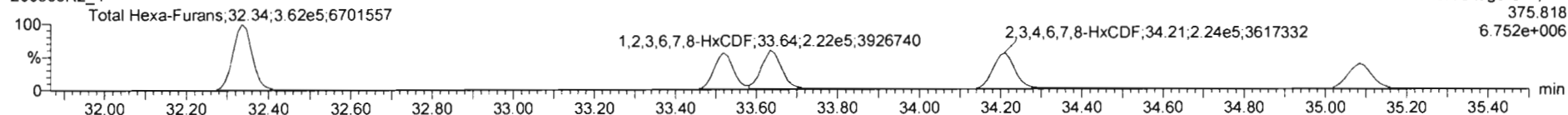
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1,2,3,4,7,8-HxCDF

200306R2_4

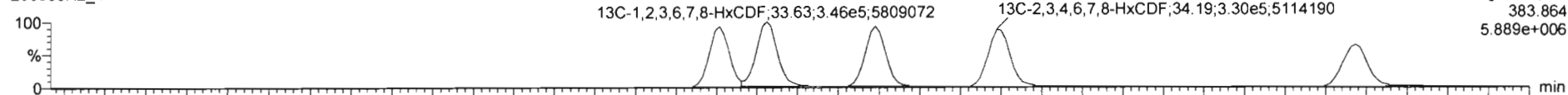


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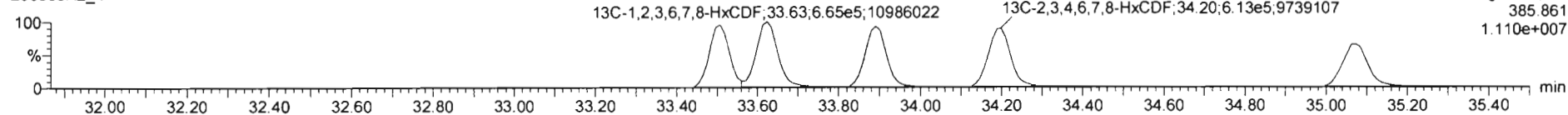


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200306R2_4

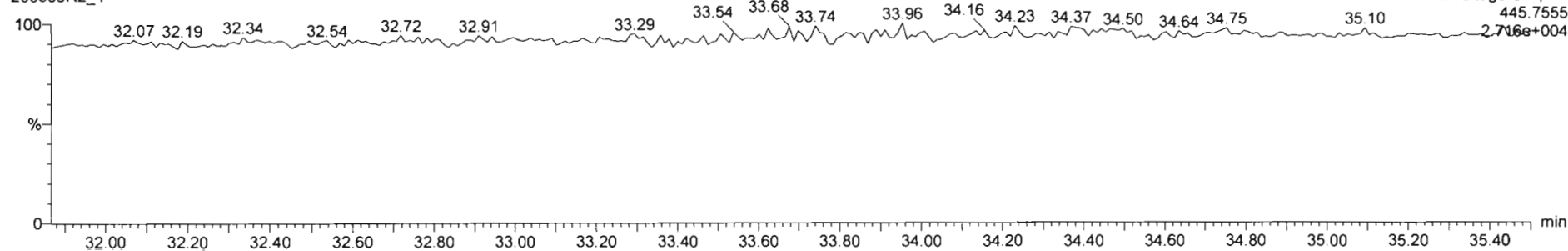


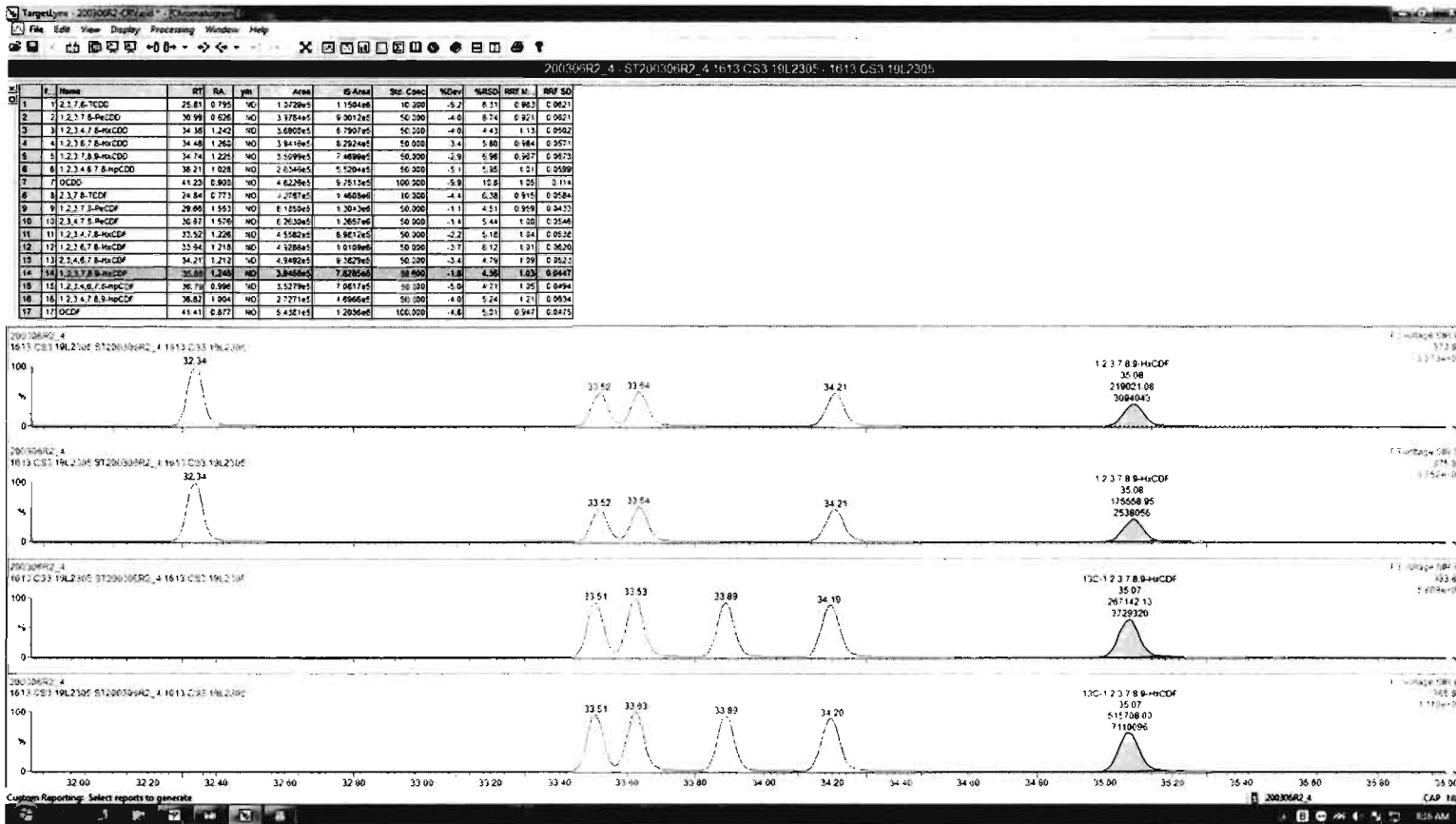
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DPE3

200306R2_4





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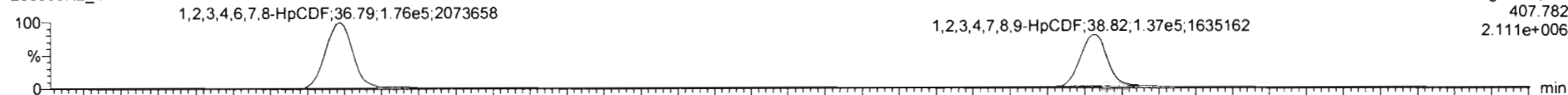
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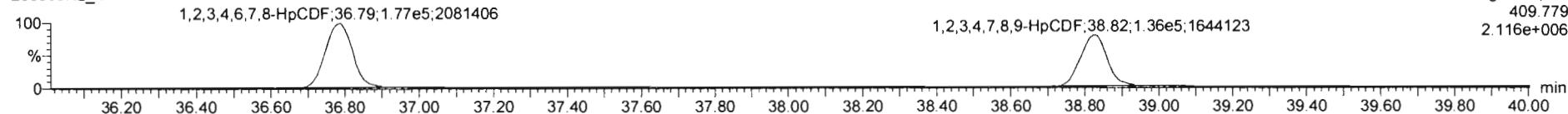
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1,2,3,4,6,7,8-HpCDF

200306R2_4

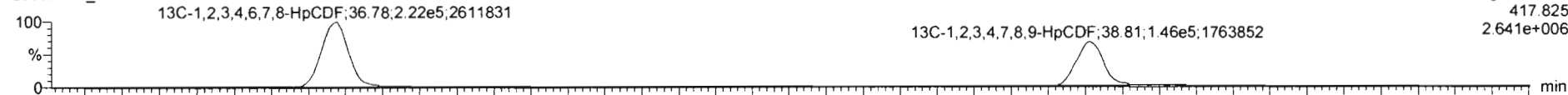


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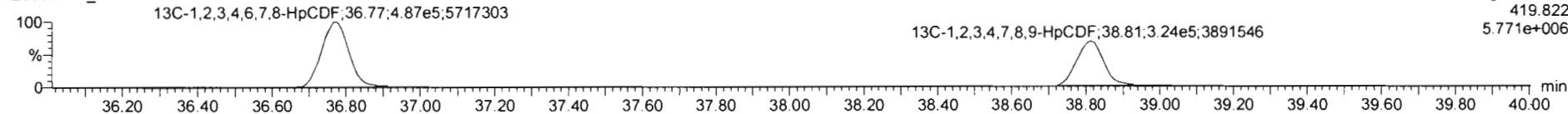


13C-1,2,3,4,6,7,8-HpCDF

200306R2_4

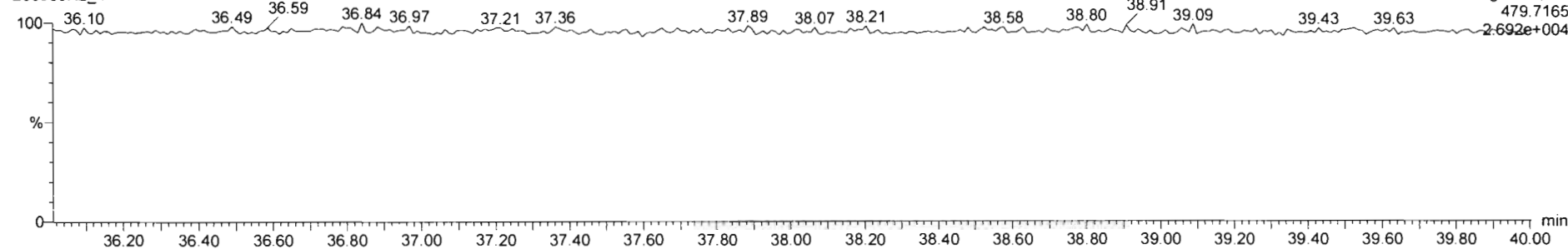


200306R2_4



DPE4

200306R2_4

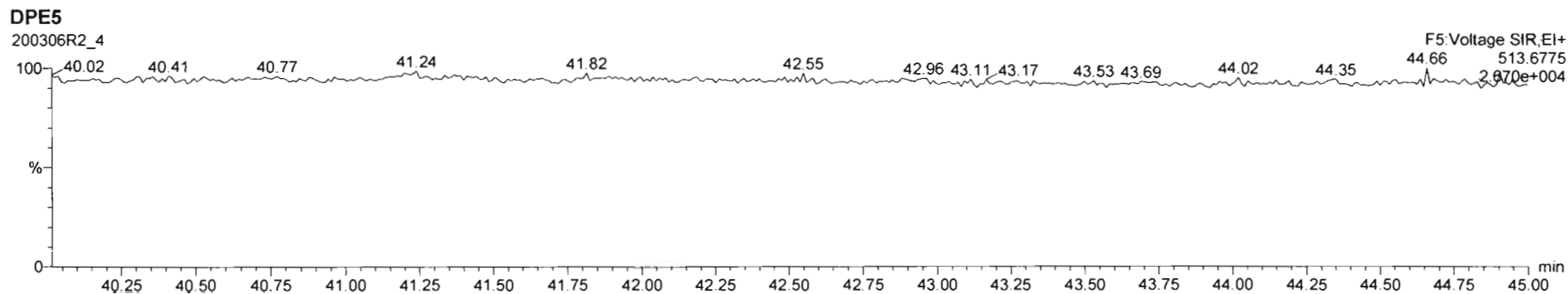
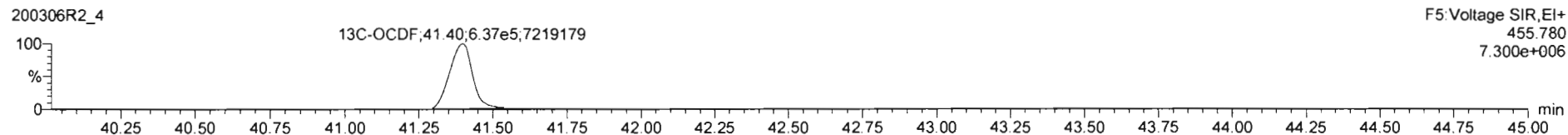
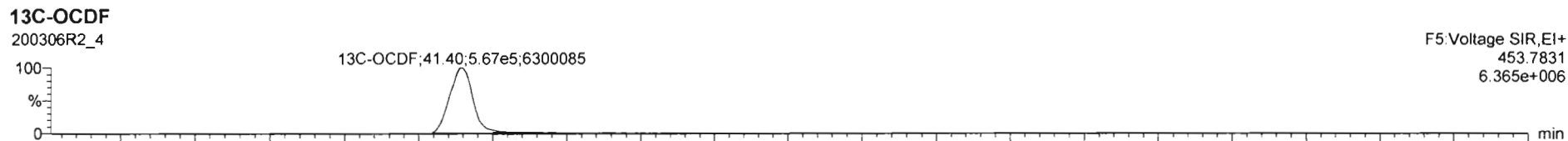
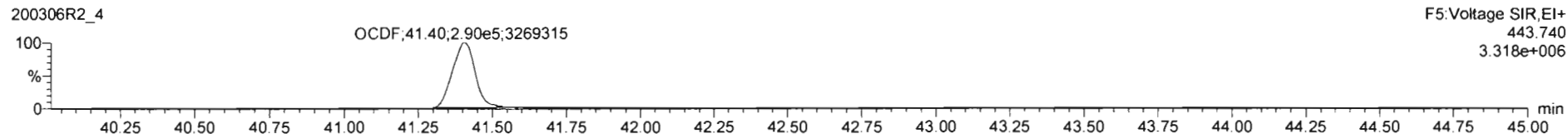
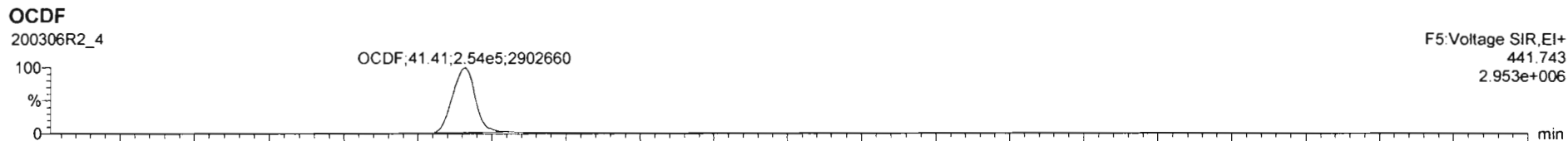


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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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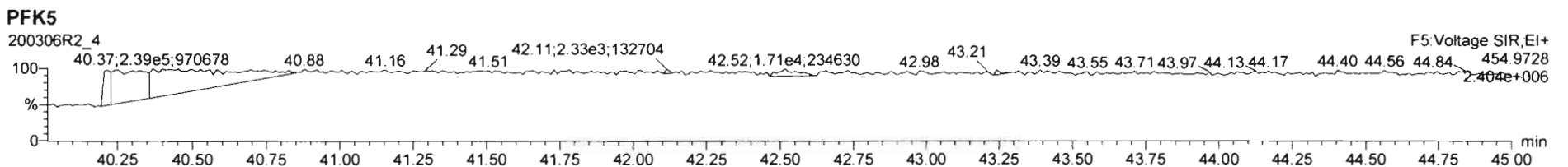
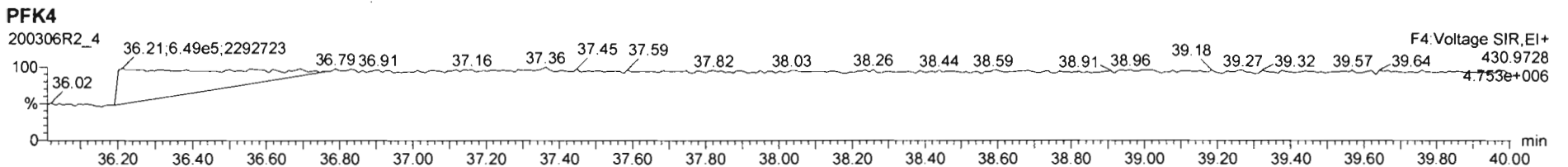
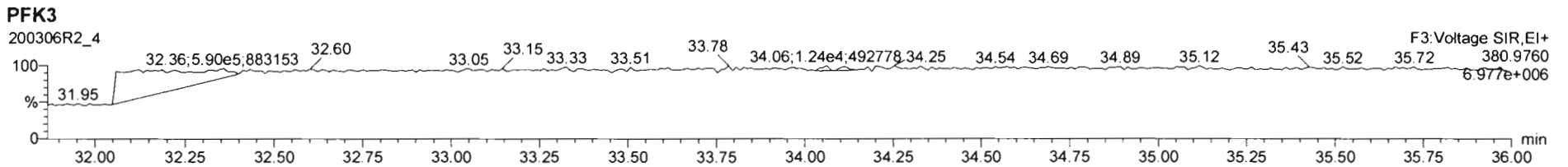
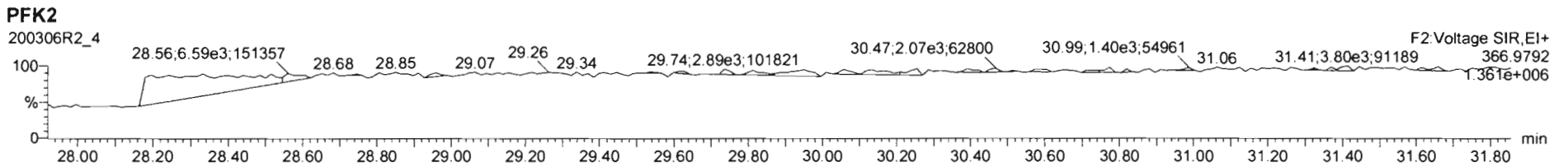
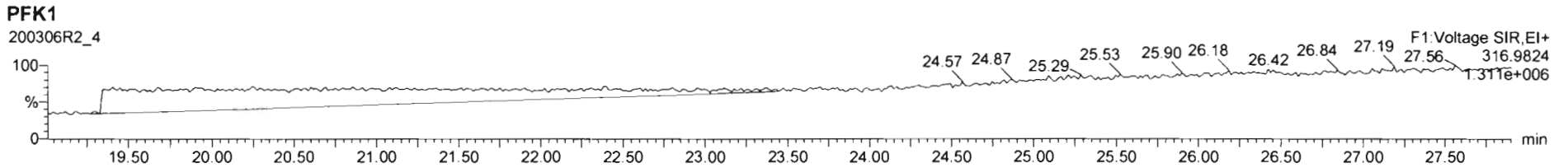


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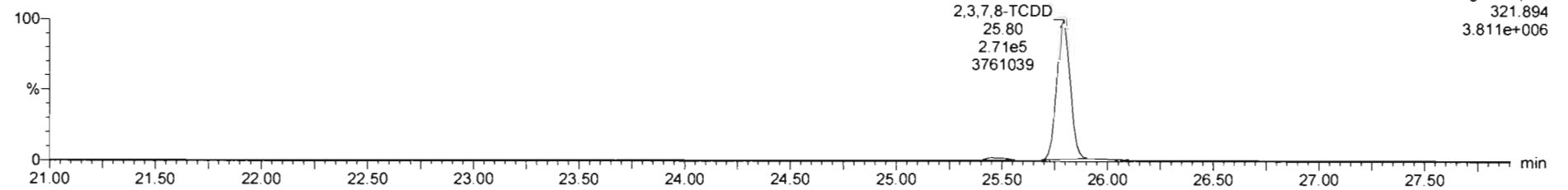
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2,3,7,8-TCDD

200306R2_5

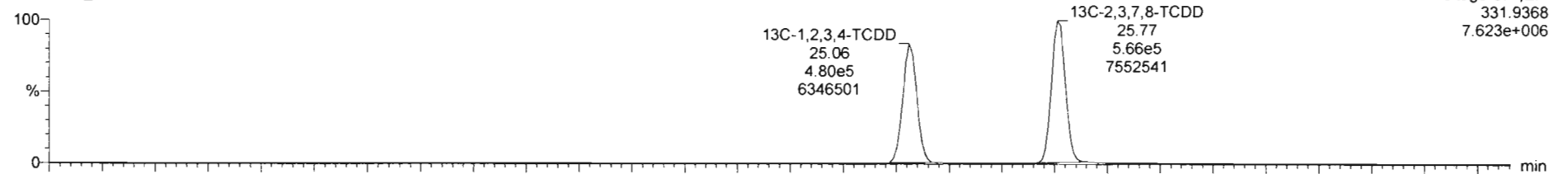


200306R2_5

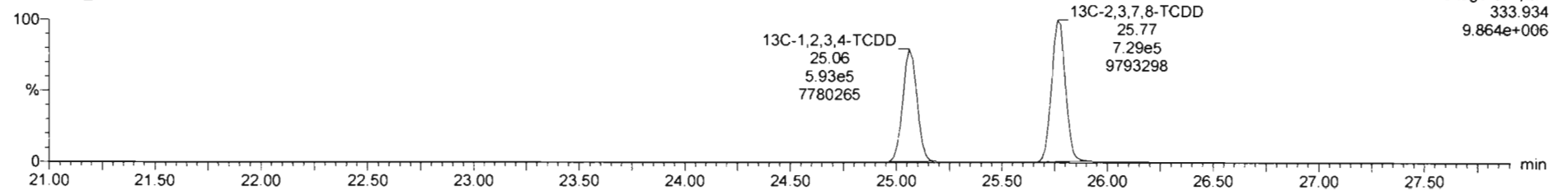


13C-2,3,7,8-TCDD

200306R2_5



200306R2_5



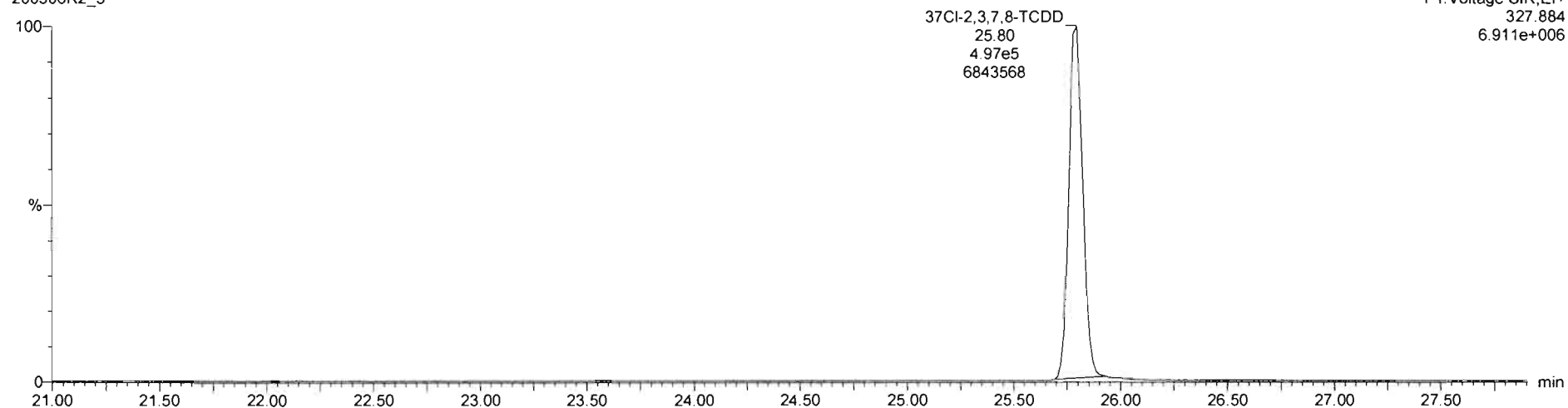
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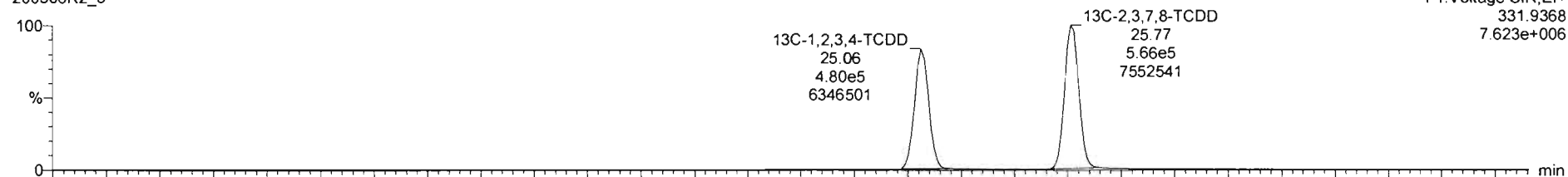
37Cl-2,3,7,8-TCDD

200306R2_5

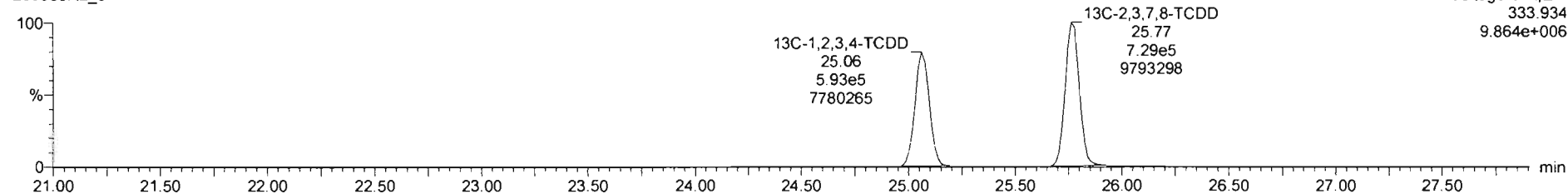


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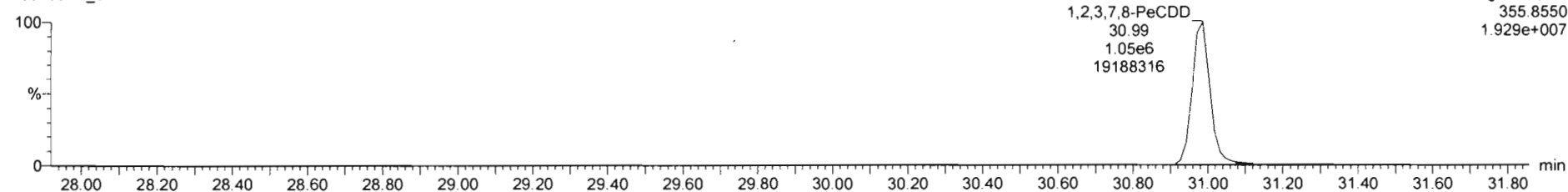
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1,2,3,7,8-PeCDD

200306R2_5



200306R2_5

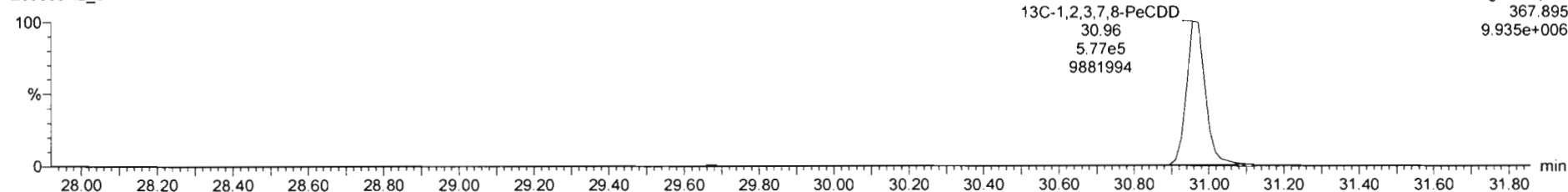


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200306R2_5



200306R2_5



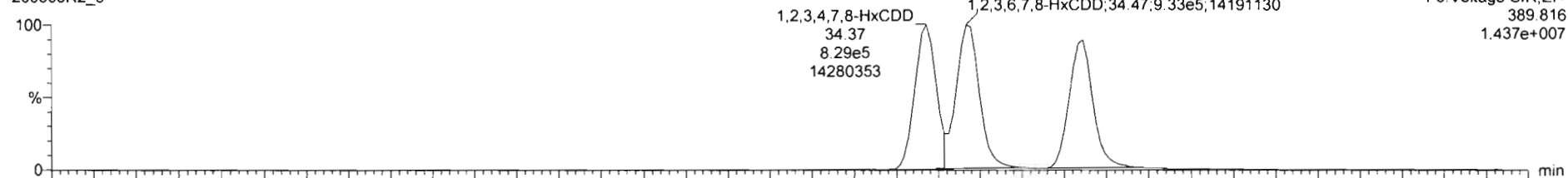
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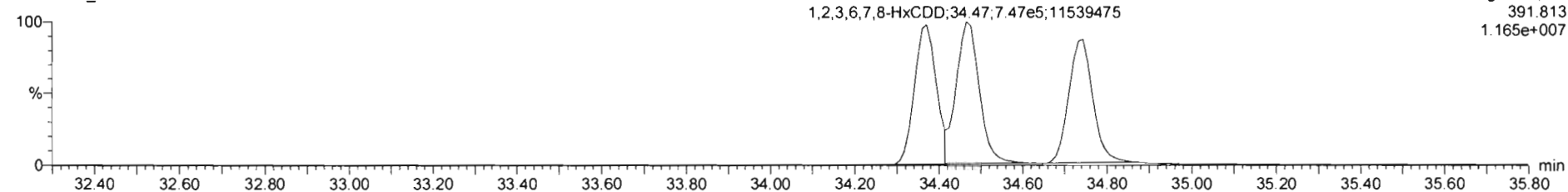
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1,2,3,4,7,8-HxCDD

200306R2_5

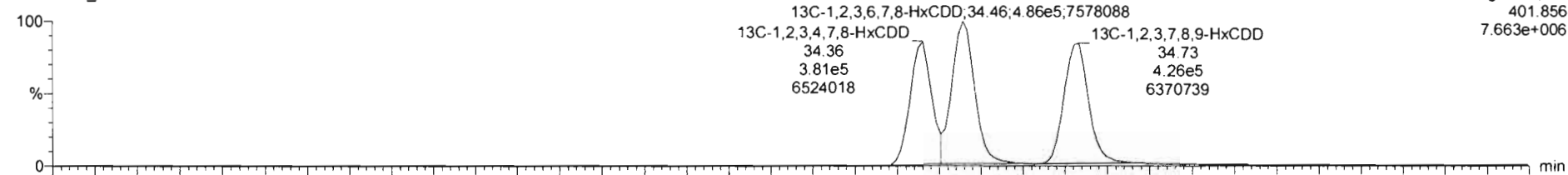


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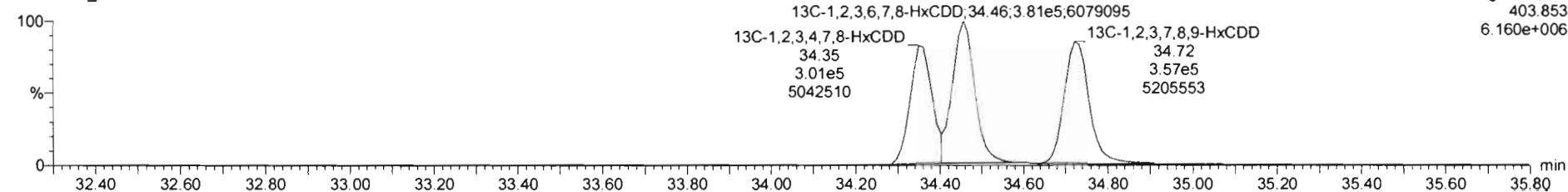


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200306R2_5



200306R2_5



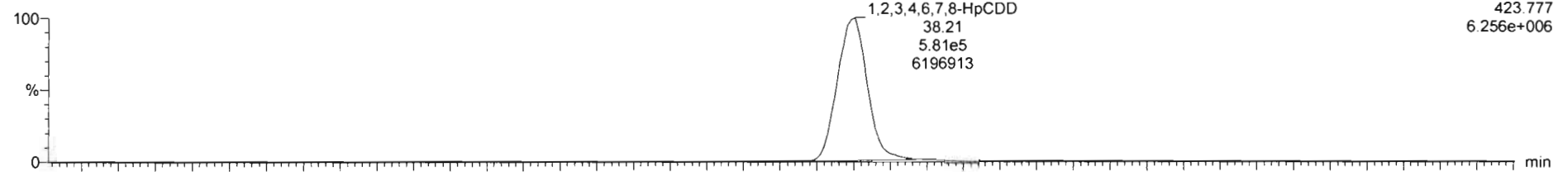
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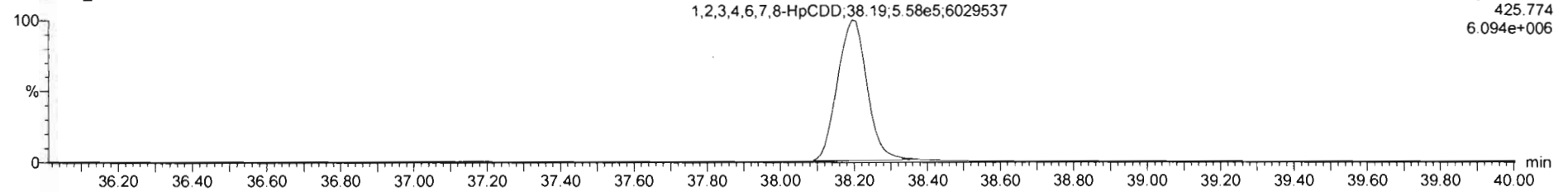
1,2,3,4,6,7,8-HpCDD

200306R2_5



F4: Voltage SIR, EI+
423.777
6.256e+006

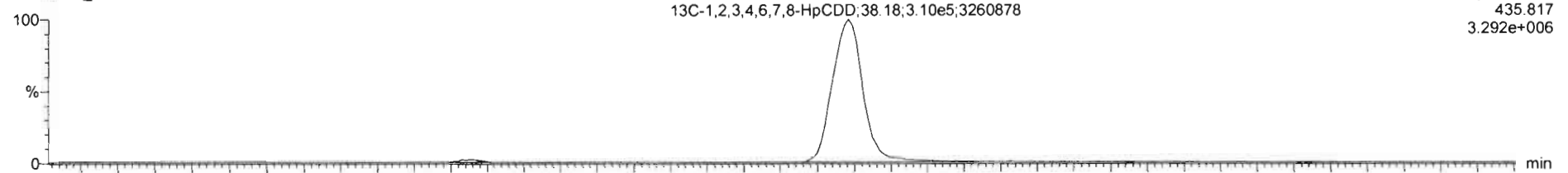
200306R2_5



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6.094e+006

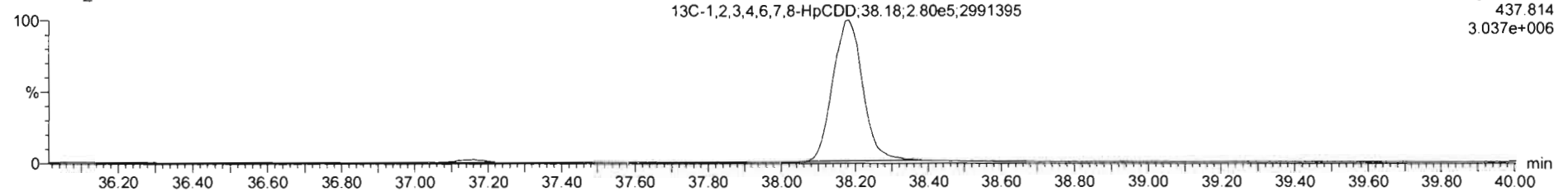
13C-1,2,3,4,6,7,8-HpCDD

200306R2_5



F4: Voltage SIR, EI+
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200306R2_5



F4: Voltage SIR, EI+
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Dataset: Untitled

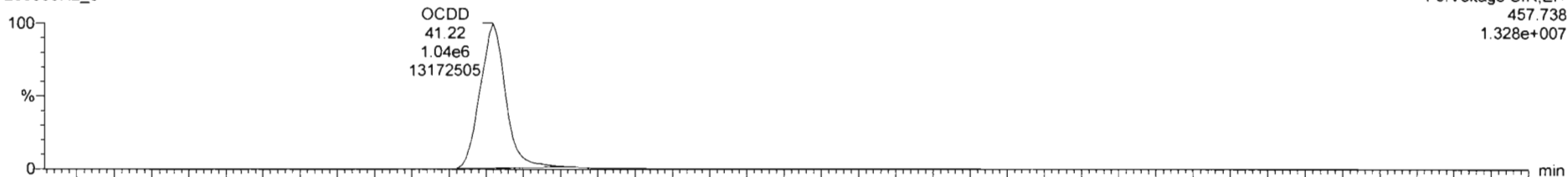
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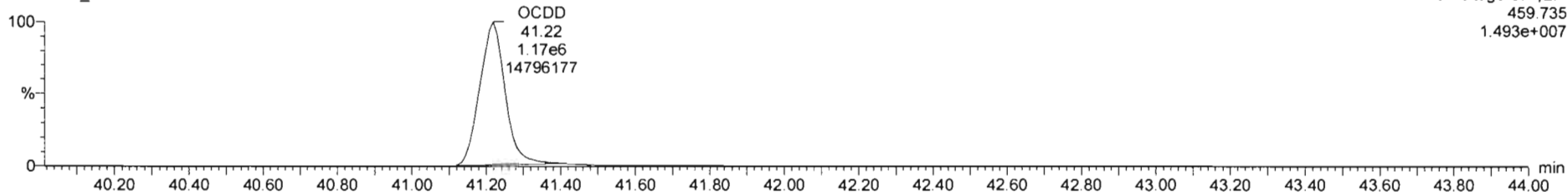
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OCDD

200306R2_5

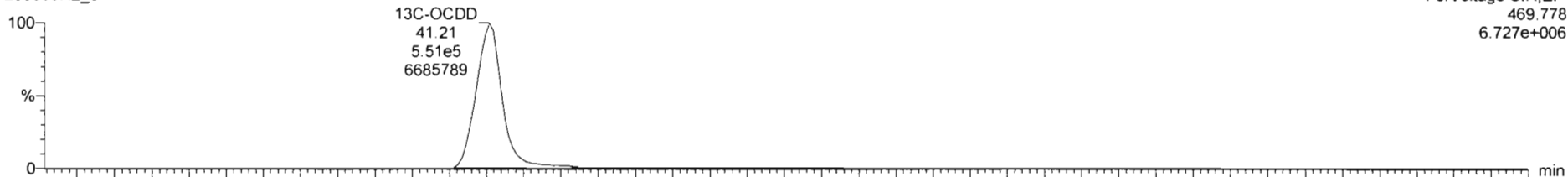


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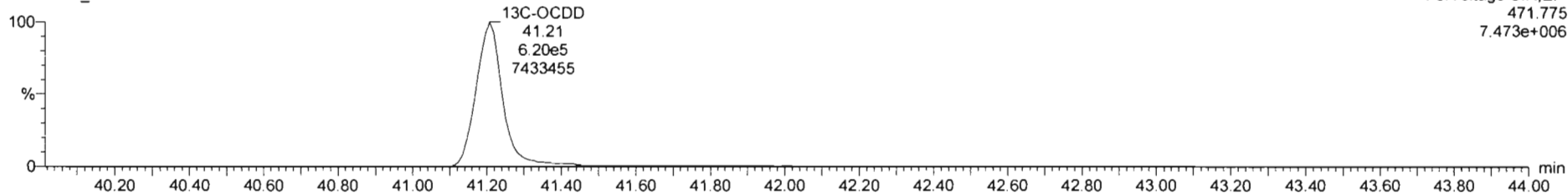


13C-OCDD

200306R2_5



200306R2_5



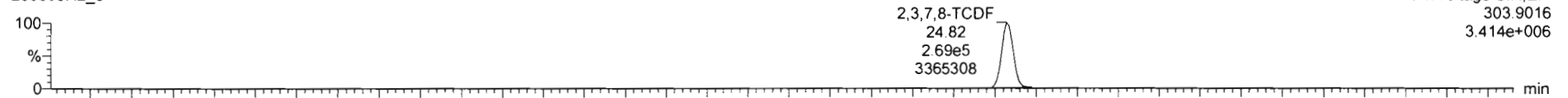
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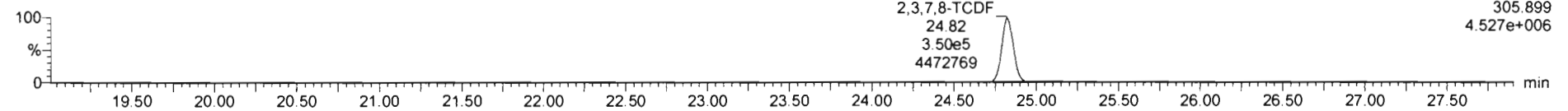
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2,3,7,8-TCDF

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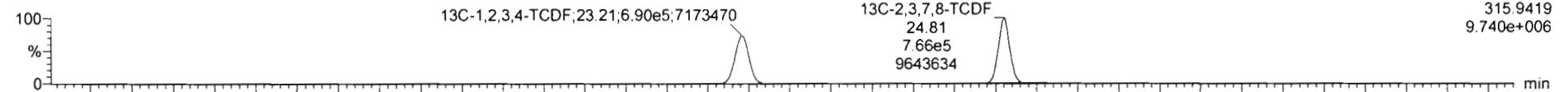


200306R2_5

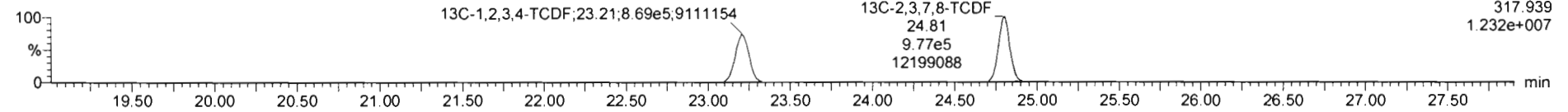


13C-2,3,7,8-TCDF

200306R2_5

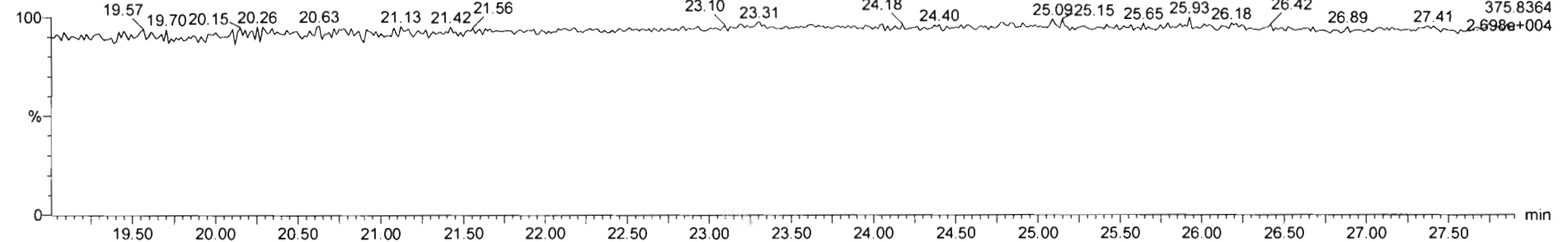


200306R2_5



DPE1

200306R2_5

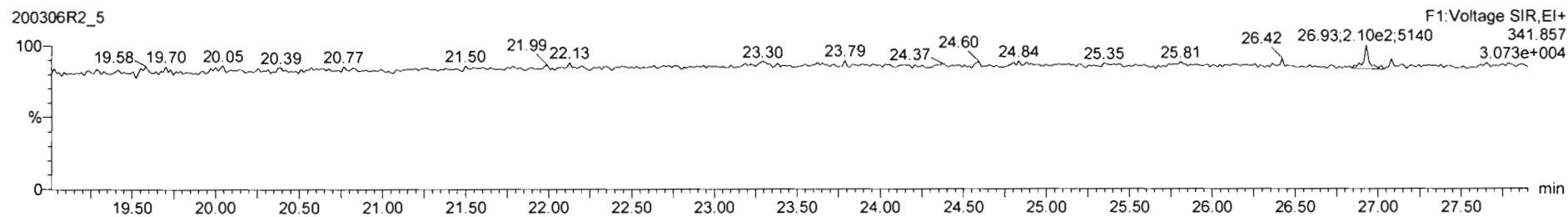
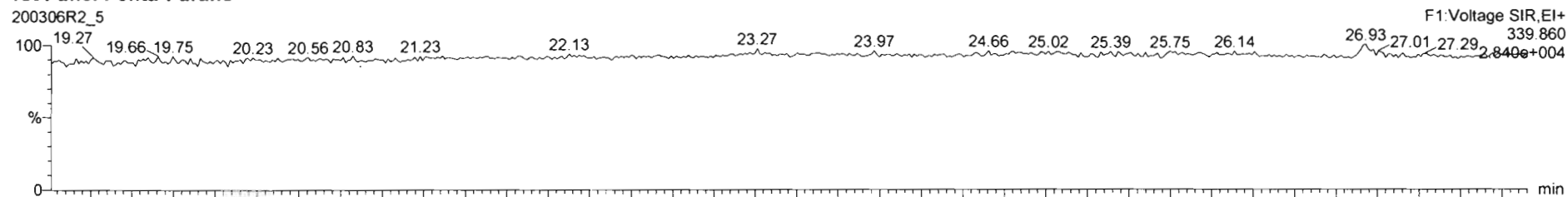


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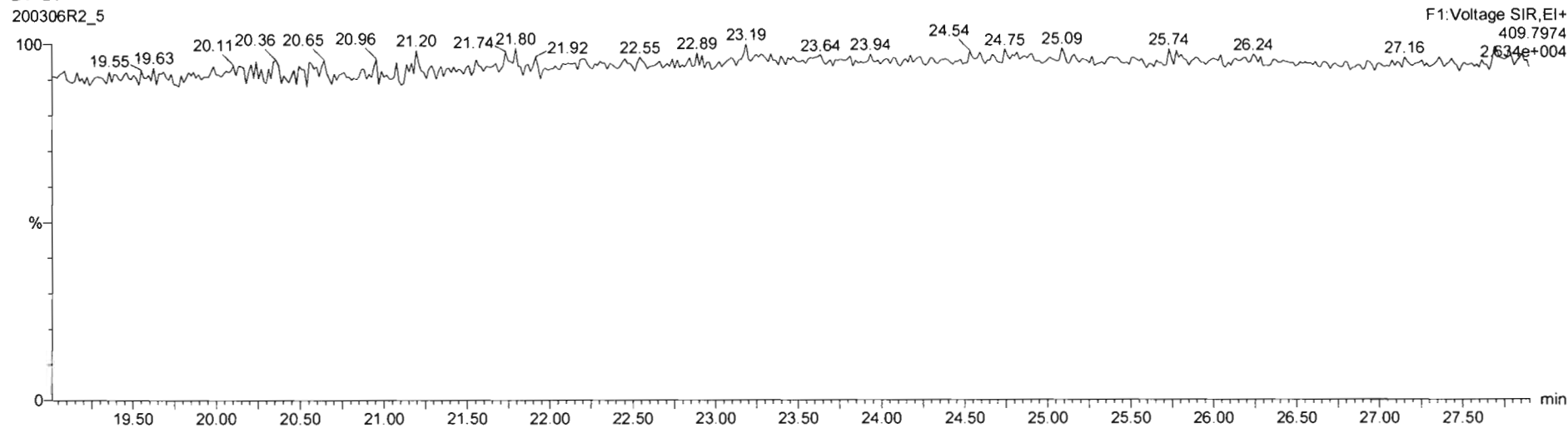
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1st Func. Penta-Furans



DPE6



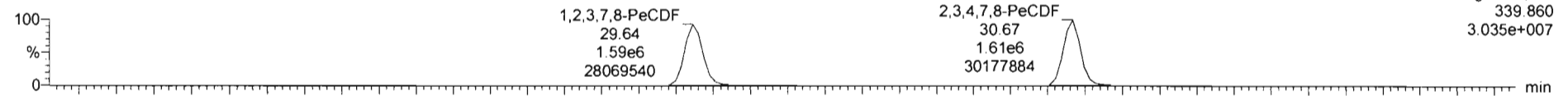
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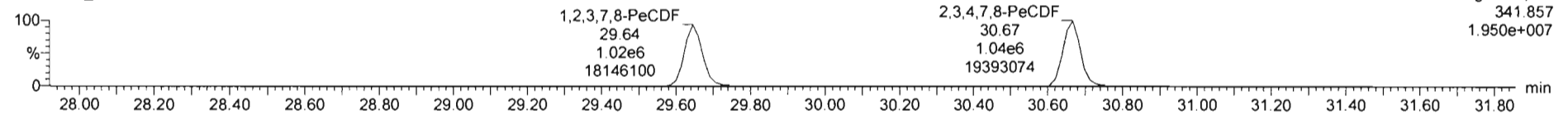
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1,2,3,7,8-PeCDF

200306R2_5

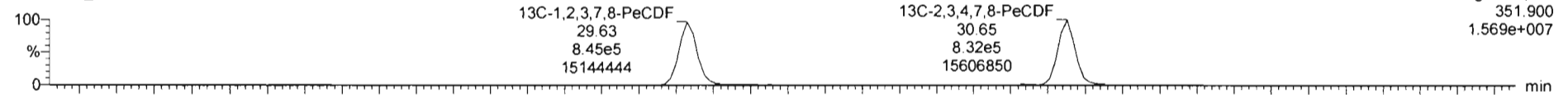


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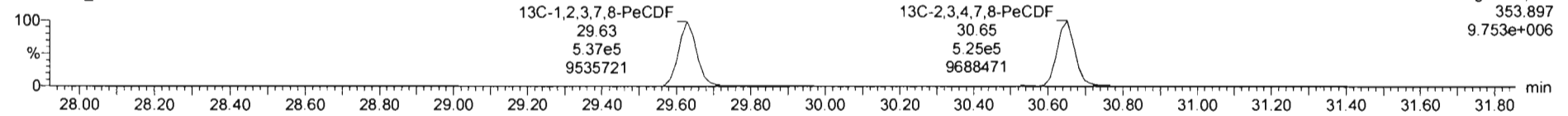


13C-1,2,3,7,8-PeCDF

200306R2_5

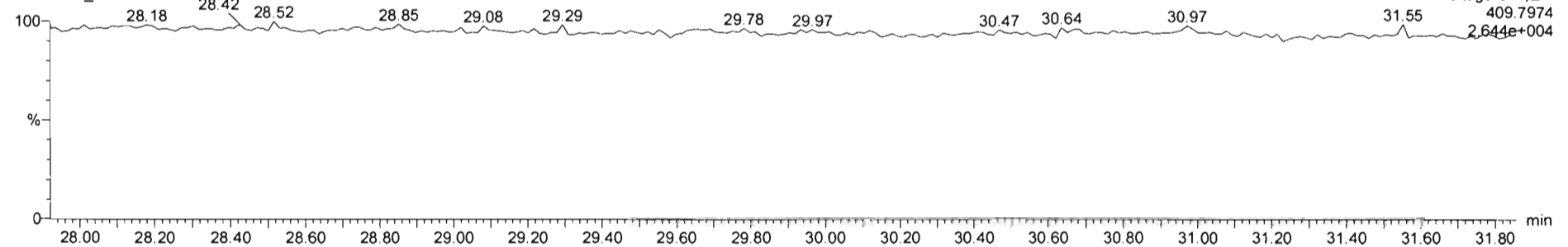


200306R2_5



DPE2

200306R2_5



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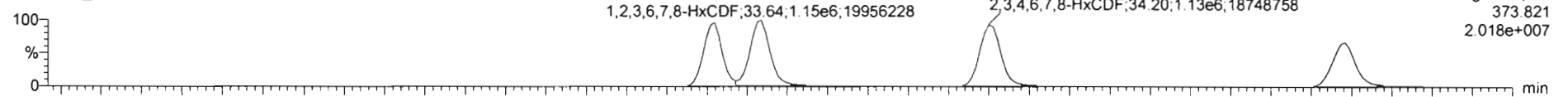
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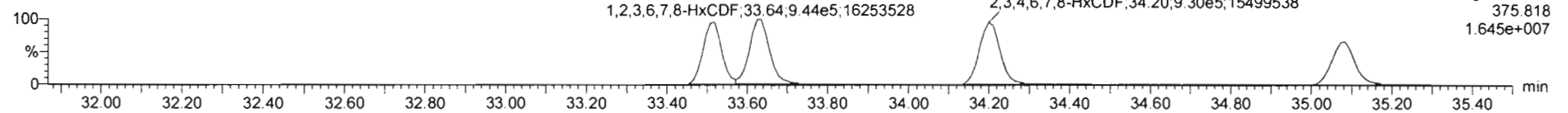
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1,2,3,4,7,8-HxCDF

200306R2_5

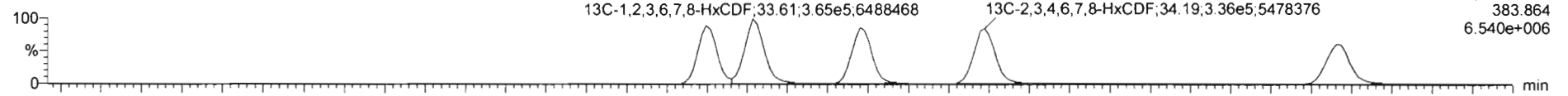


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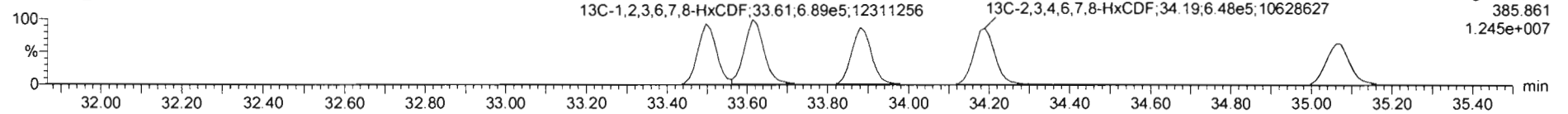


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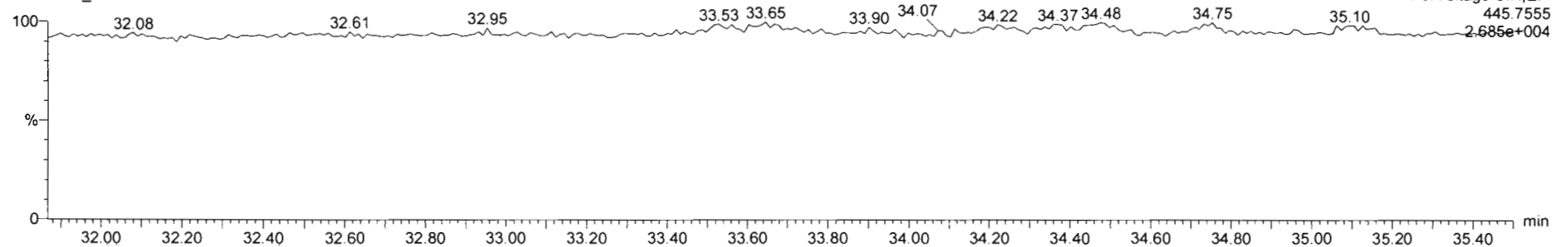


200306R2_5



DPE3

200306R2_5



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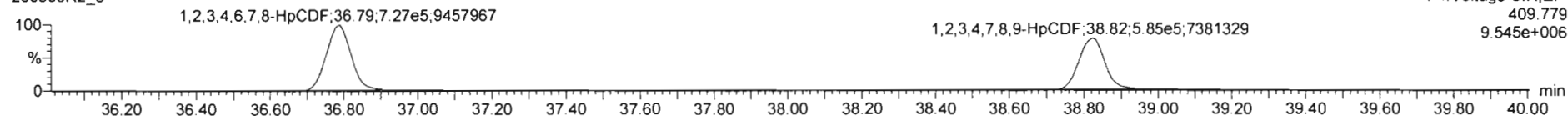
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1,2,3,4,6,7,8-HpCDF

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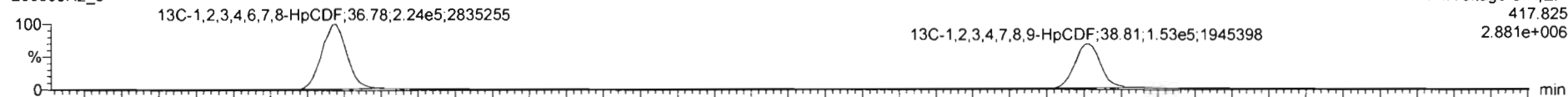


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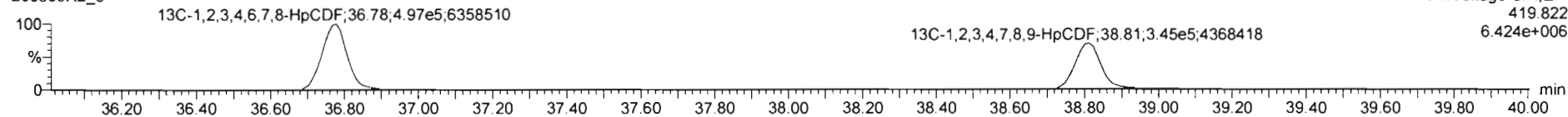


13C-1,2,3,4,6,7,8-HpCDF

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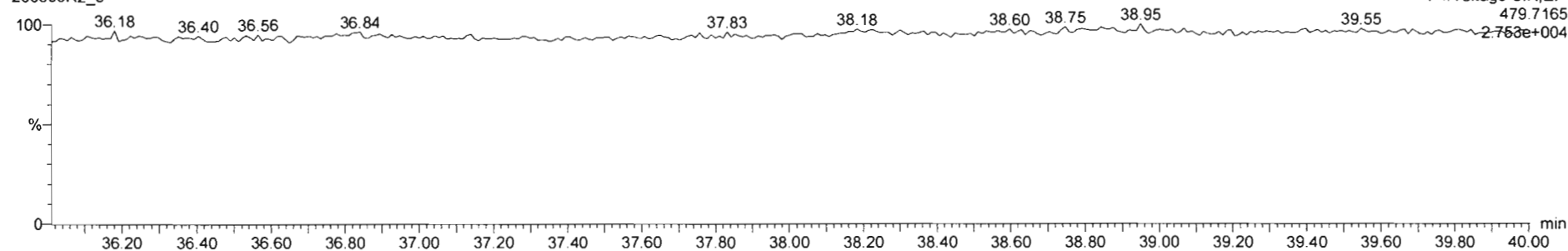


200306R2_5



DPE4

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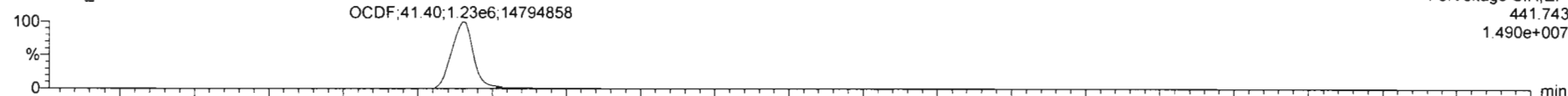
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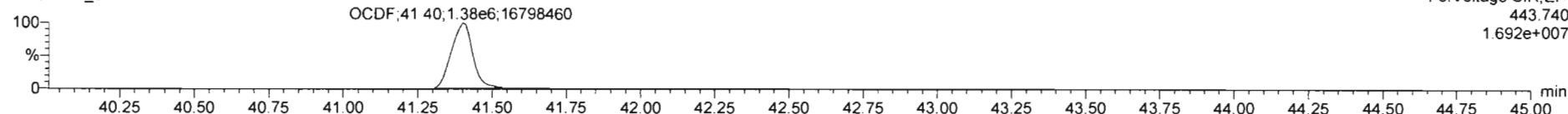
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OCDF

200306R2_5

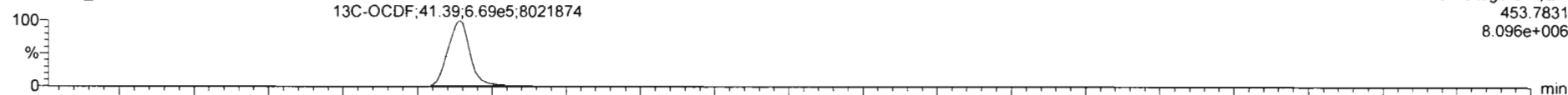


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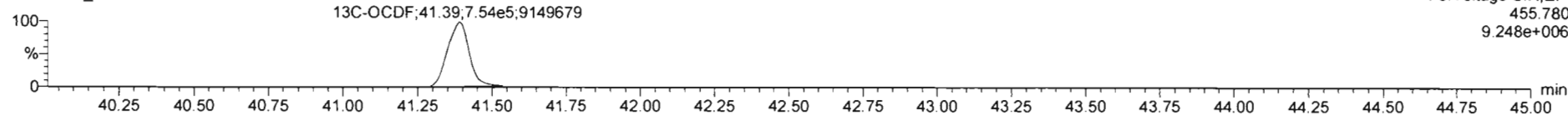


13C-OCDF

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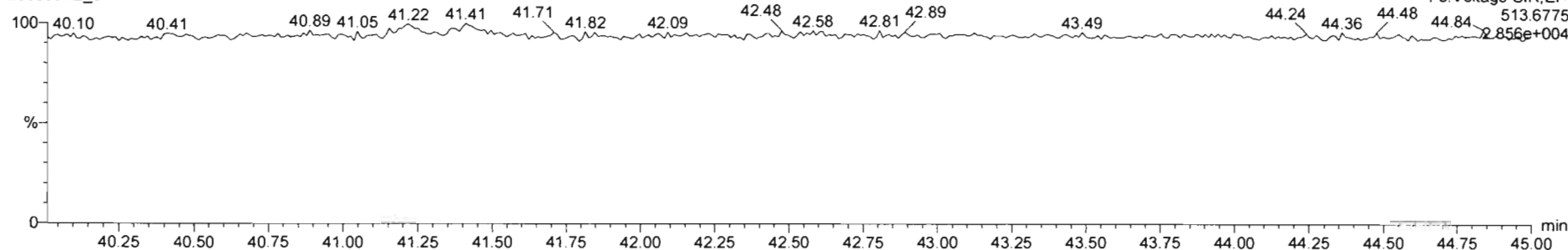


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DPE5

200306R2_5



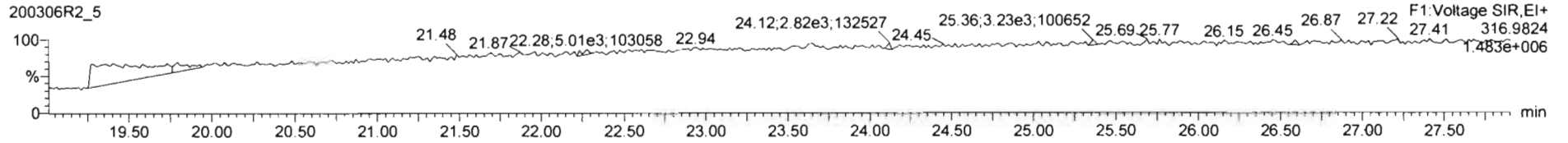
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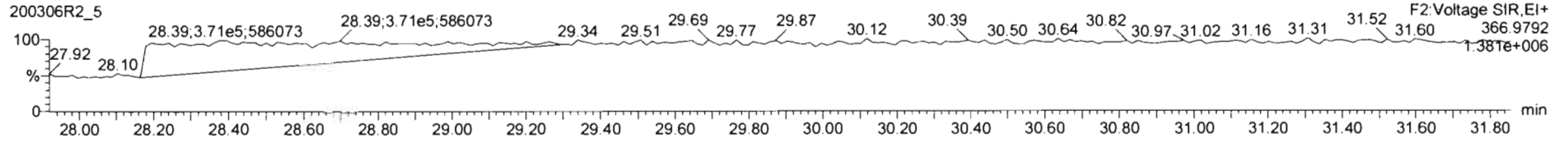
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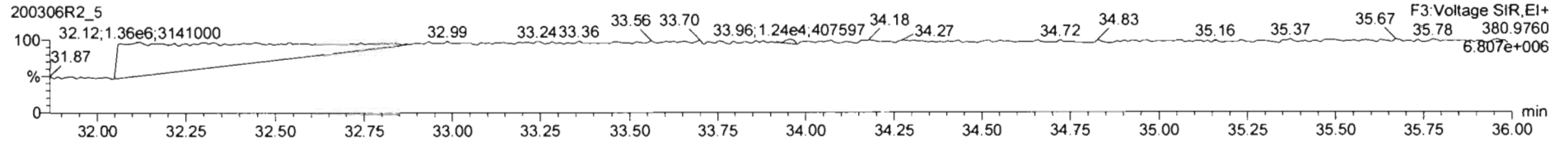
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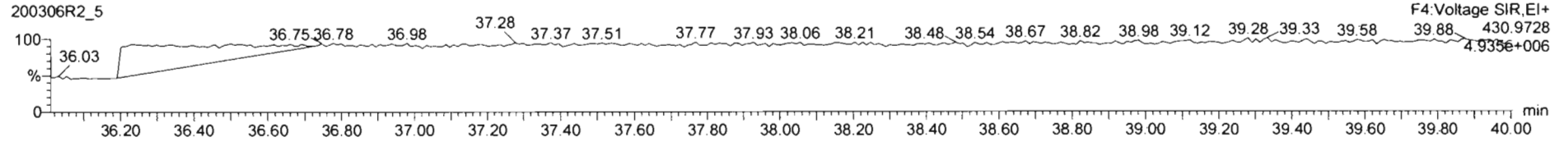
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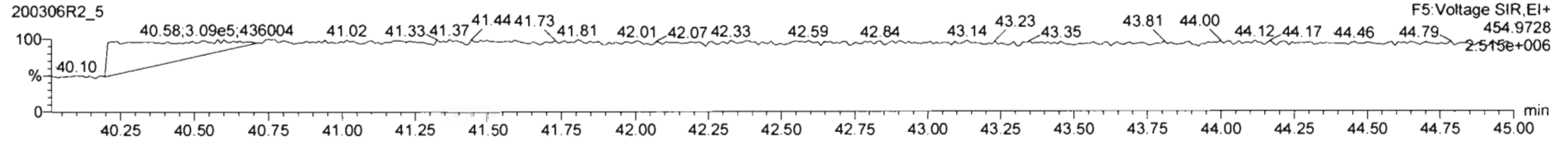
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PFK4



PFK5



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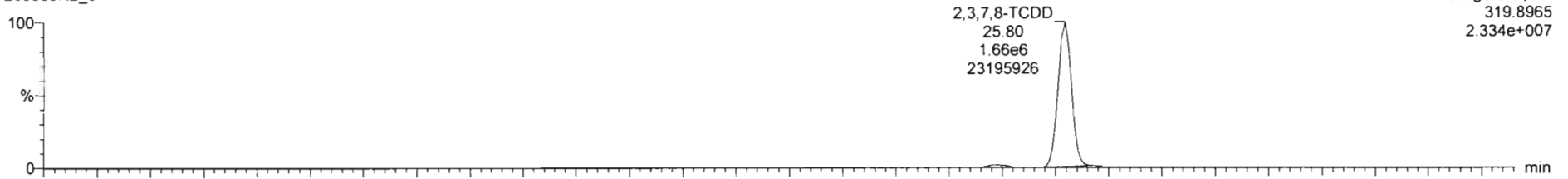
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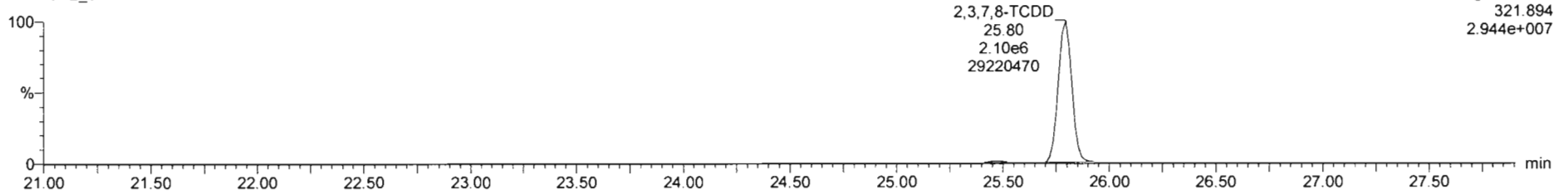
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2,3,7,8-TCDD

200306R2_6

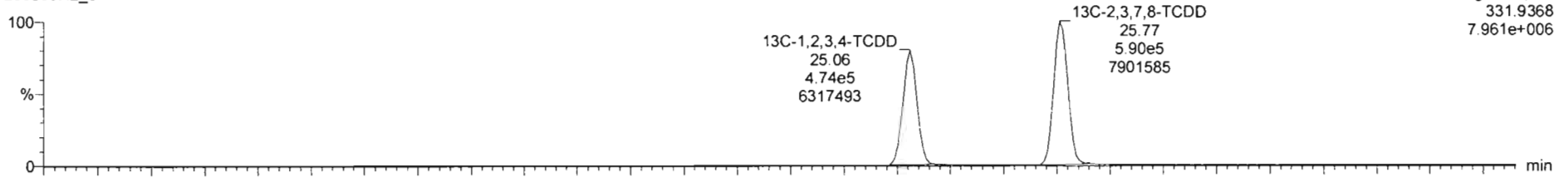


200306R2_6

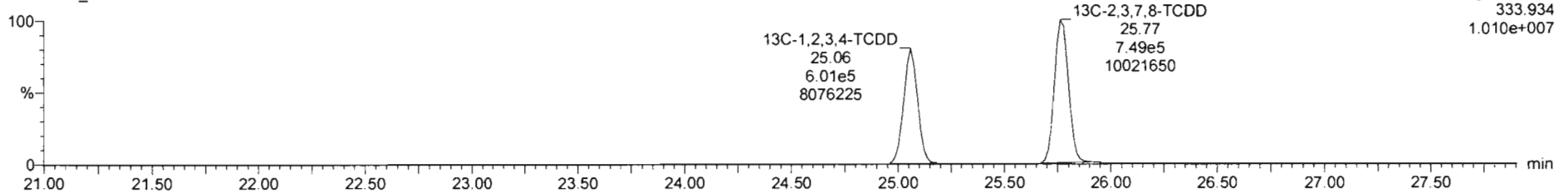


13C-2,3,7,8-TCDD

200306R2_6



200306R2_6



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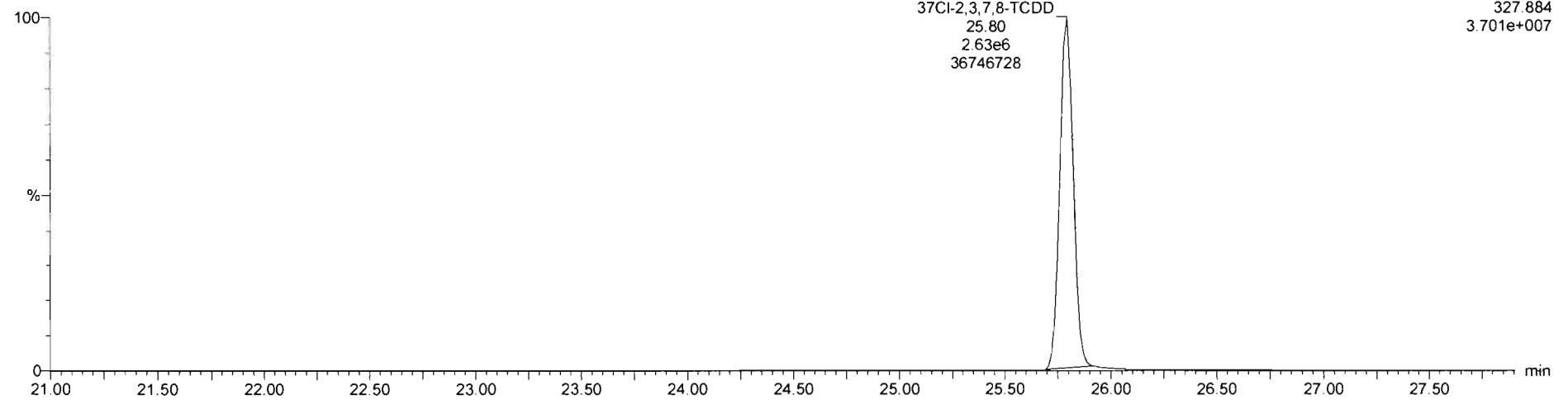
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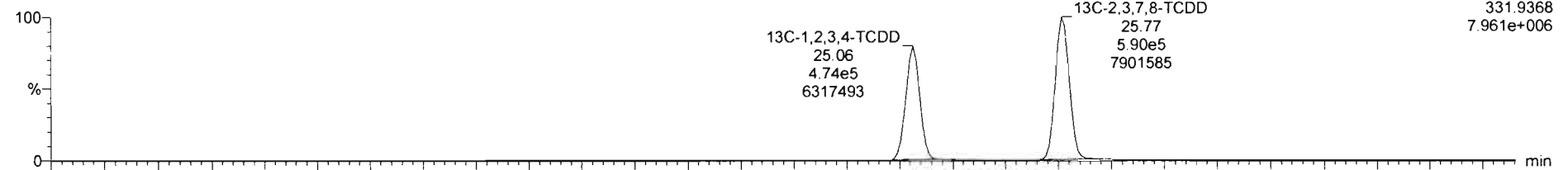
37Cl-2,3,7,8-TCDD

200306R2_6

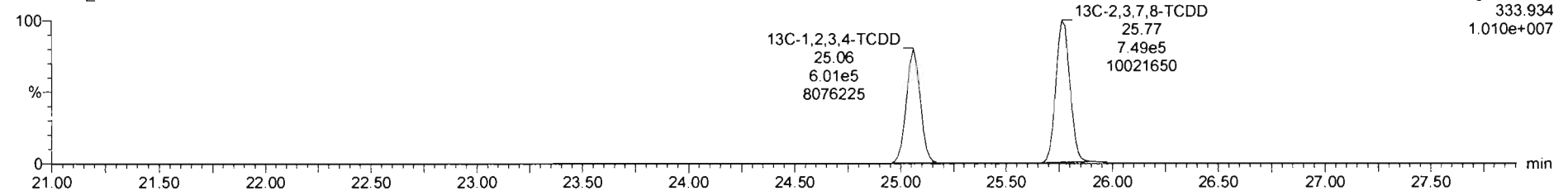


13C-1,2,3,4-TCDD

200306R2_6



200306R2_6



Dataset: Untitled

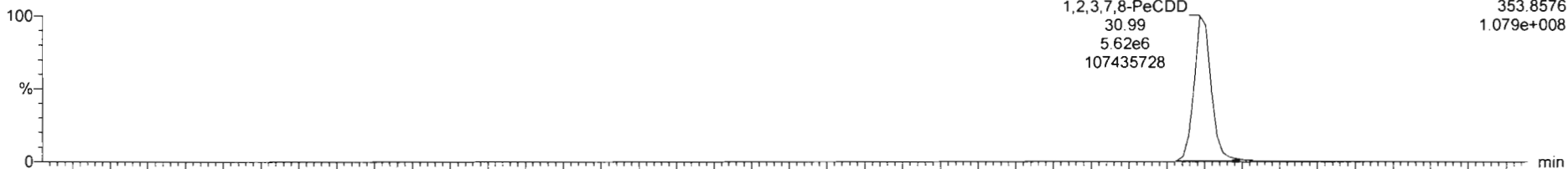
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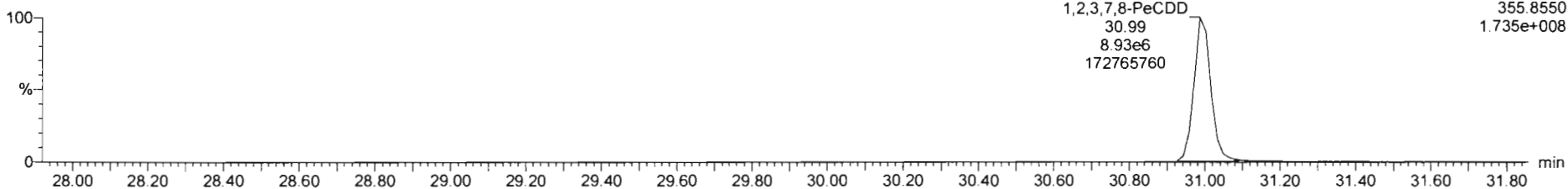
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1,2,3,7,8-PeCDD

200306R2_6

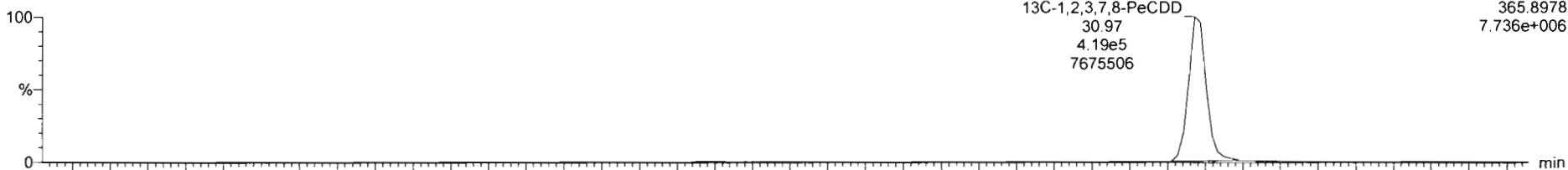


200306R2_6

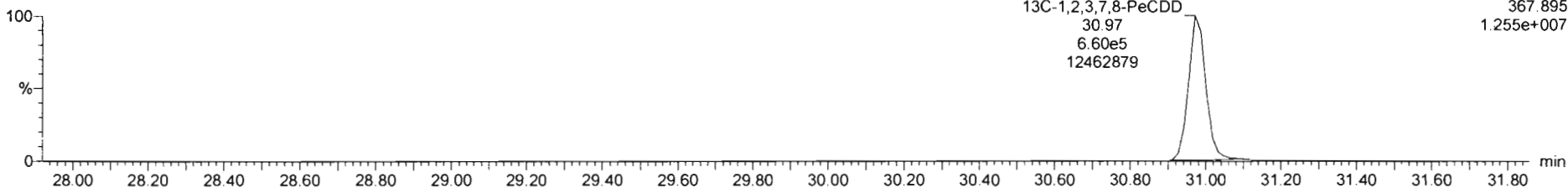


13C-1,2,3,7,8-PeCDD

200306R2_6



200306R2_6



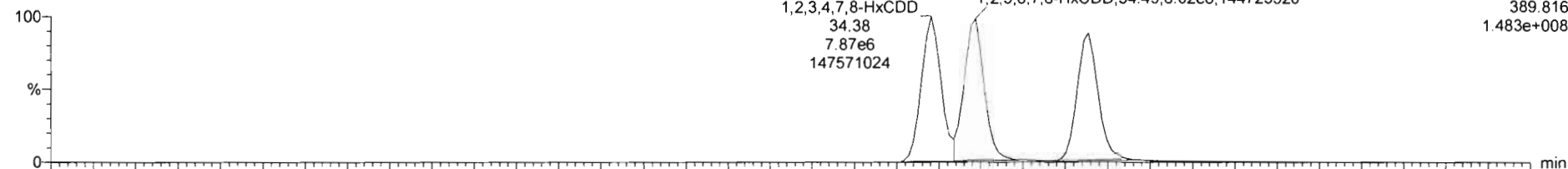
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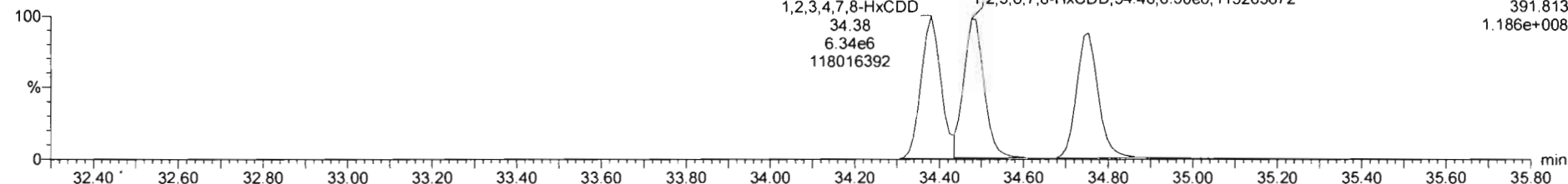
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1,2,3,4,7,8-HxCDD

200306R2_6

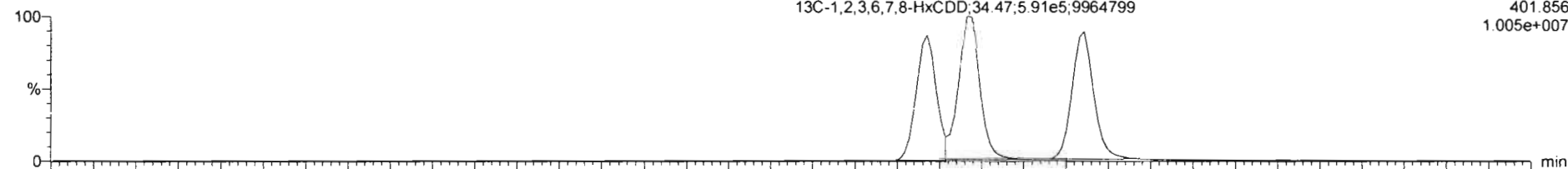


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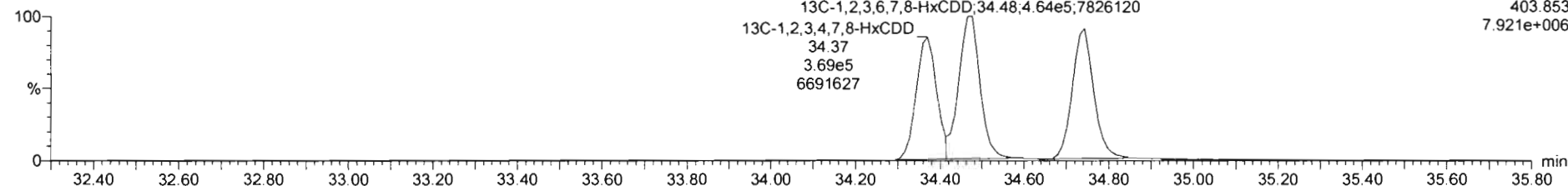


13C-1,2,3,4,7,8-HxCDD

200306R2_6



200306R2_6



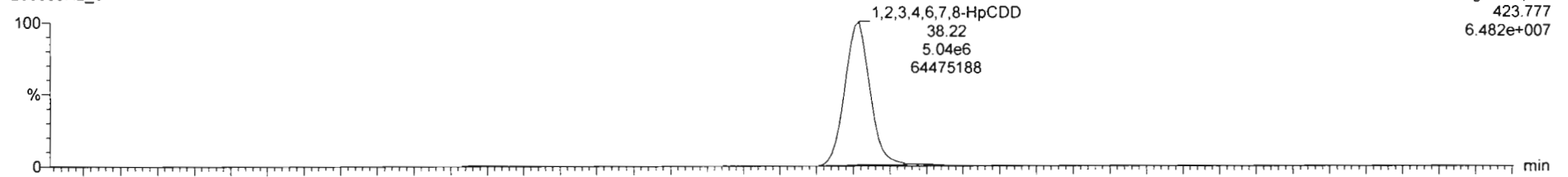
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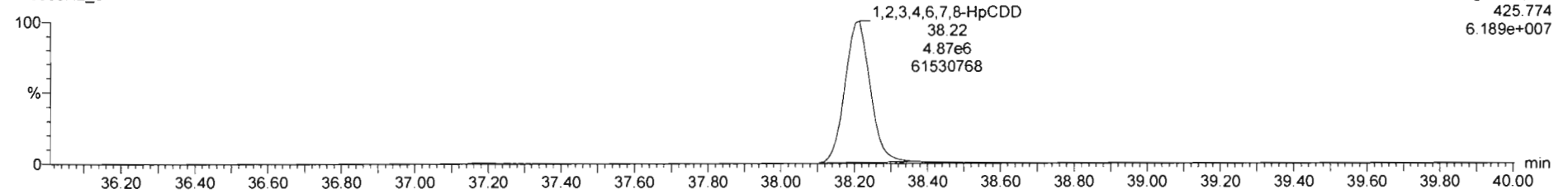
1,2,3,4,6,7,8-HpCDD

200306R2_6



F4: Voltage SIR, EI+
423.777
6.482e+007

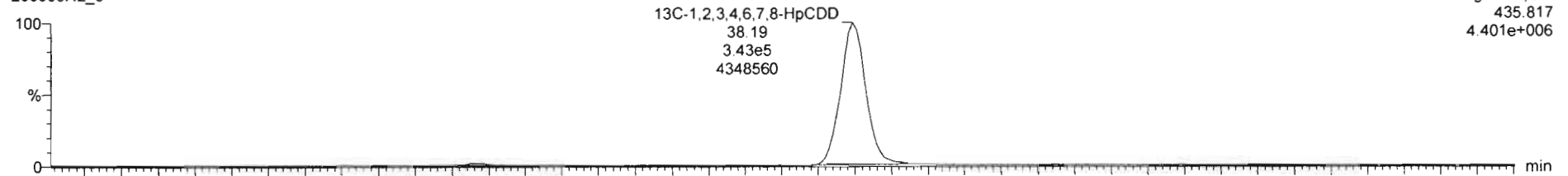
200306R2_6



F4: Voltage SIR, EI+
425.774
6.189e+007

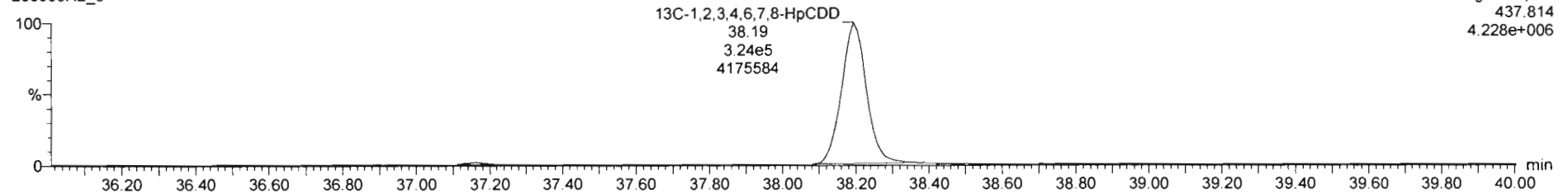
13C-1,2,3,4,6,7,8-HpCDD

200306R2_6



F4: Voltage SIR, EI+
435.817
4.401e+006

200306R2_6



F4: Voltage SIR, EI+
437.814
4.228e+006

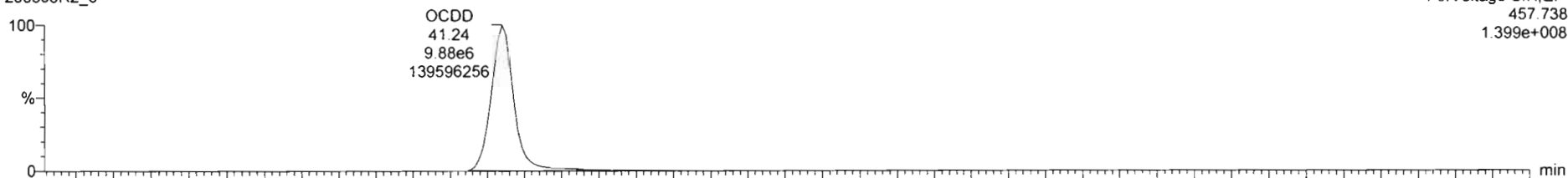
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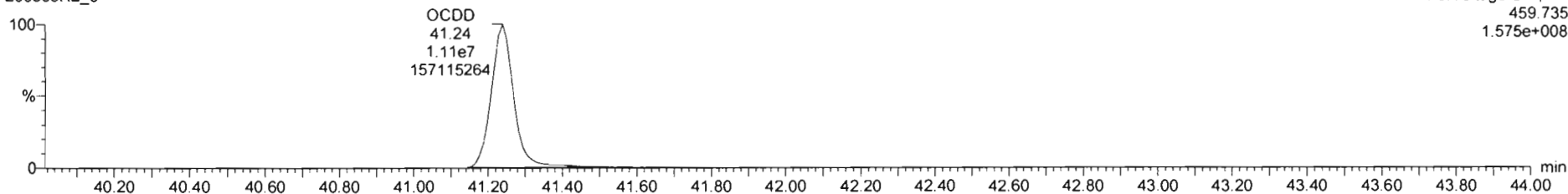
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OCDD

200306R2_6

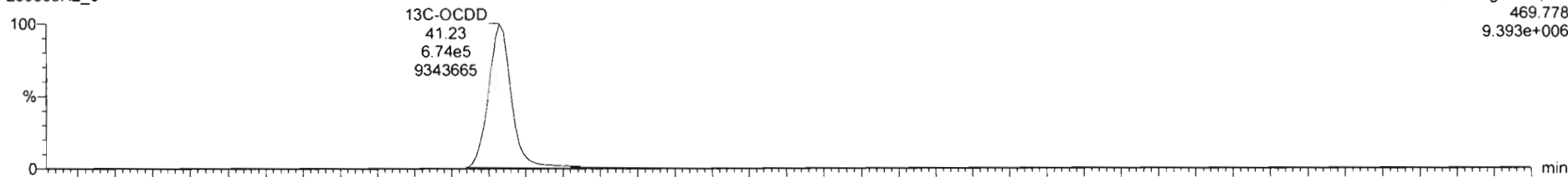


200306R2_6

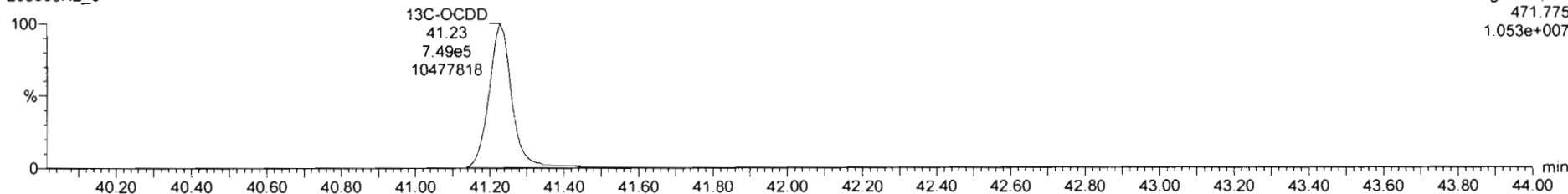


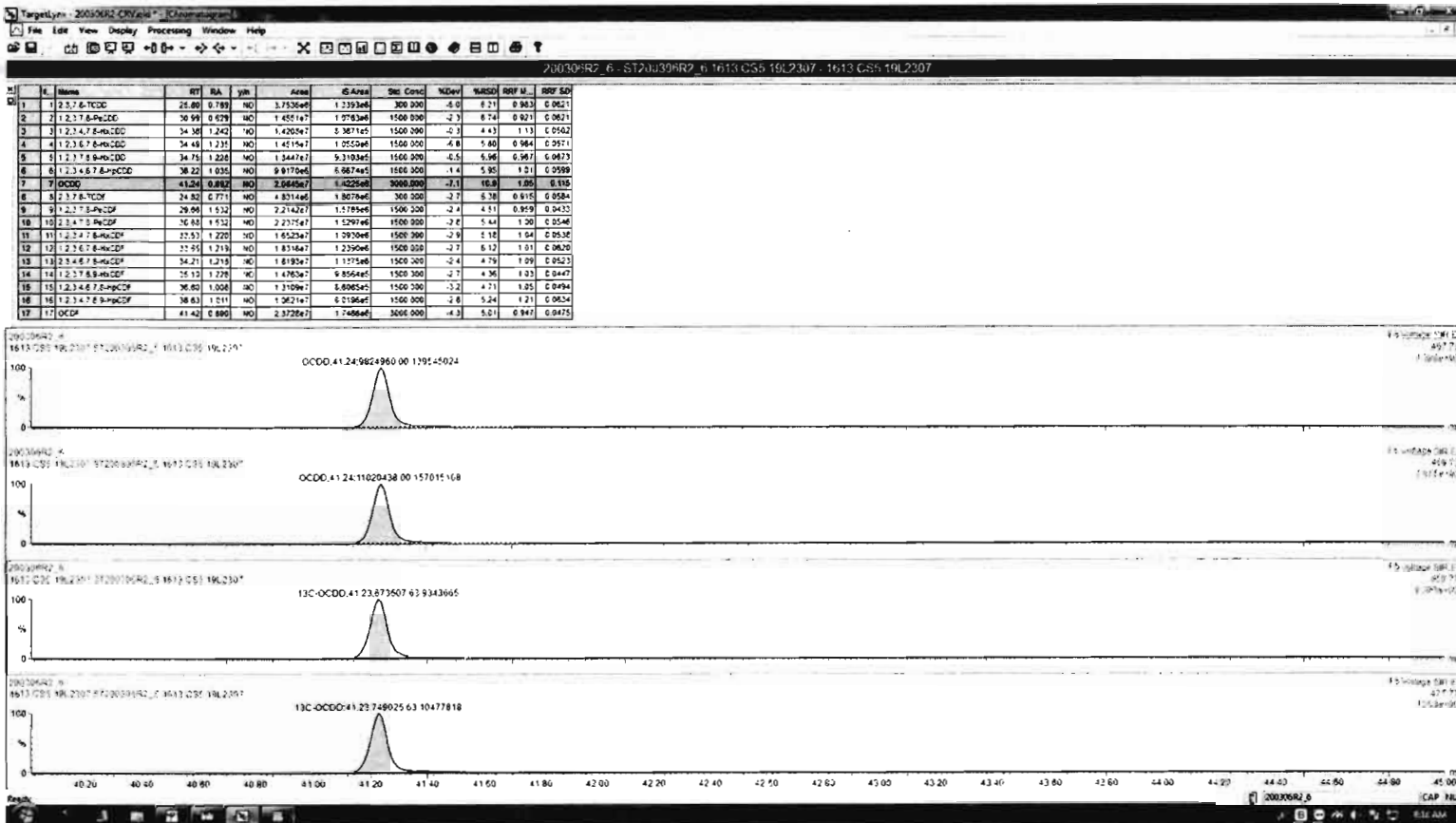
13C-OCDD

200306R2_6



200306R2_6





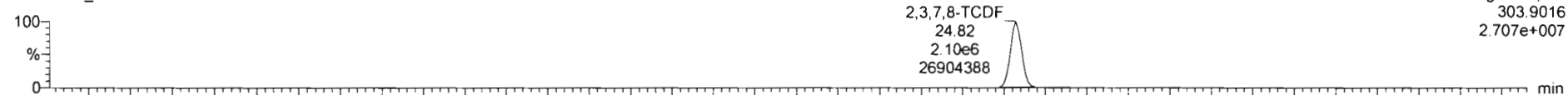
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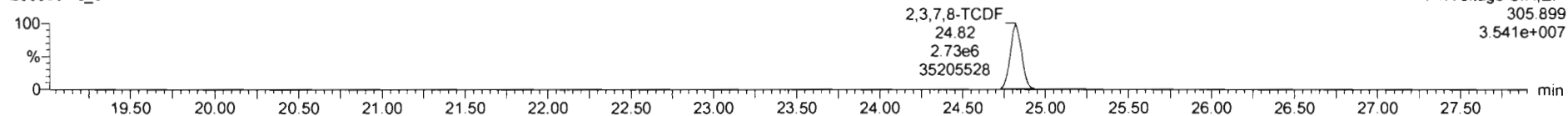
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2,3,7,8-TCDF

200306R2_6

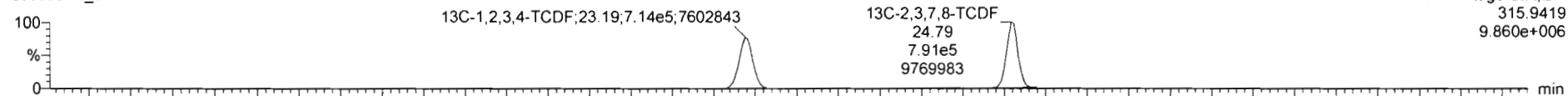


200306R2_6

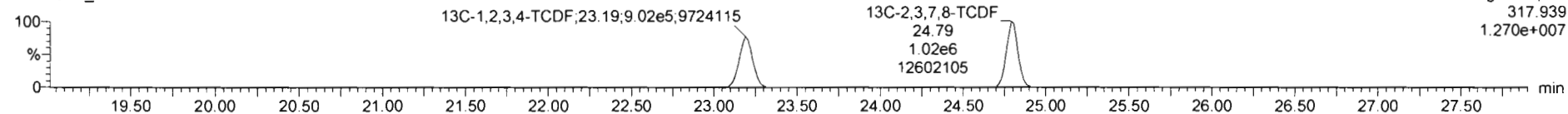


13C-2,3,7,8-TCDF

200306R2_6

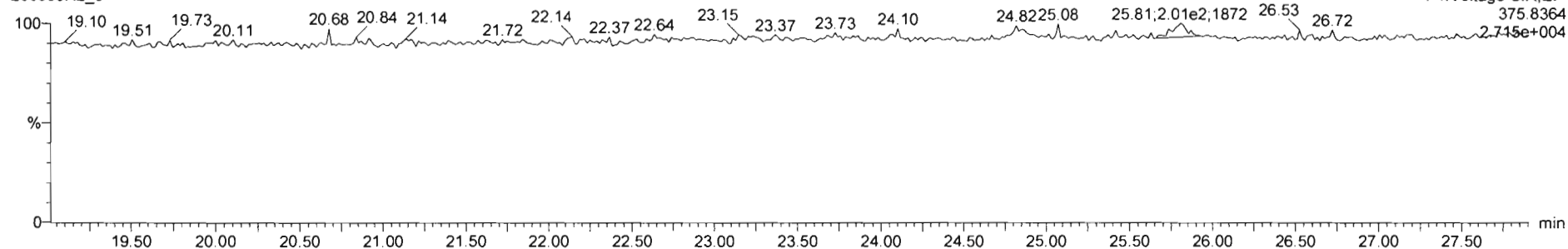


200306R2_6



DPE1

200306R2_6



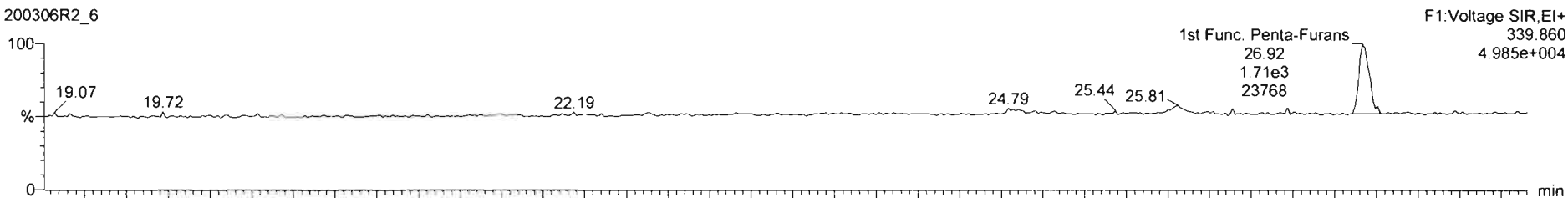
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

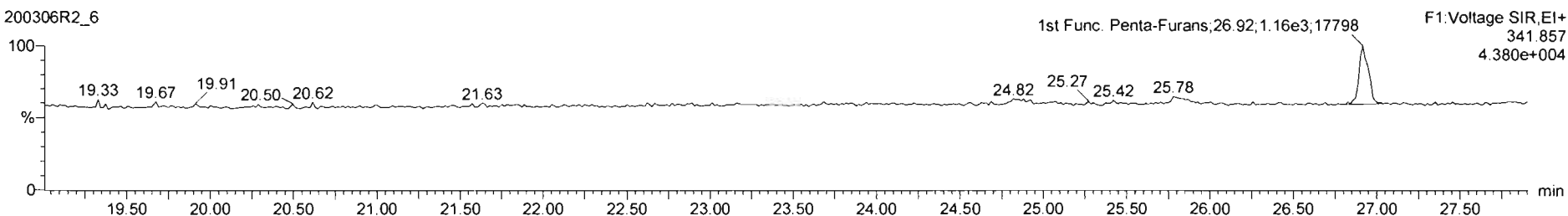
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200306R2_6

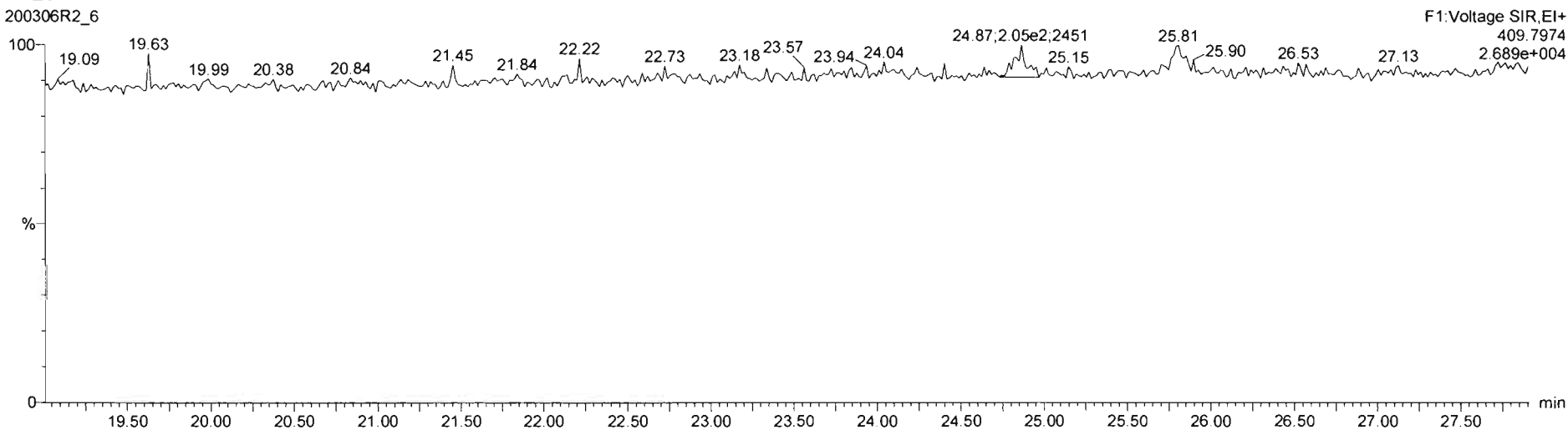


200306R2_6



DPE6

200306R2_6



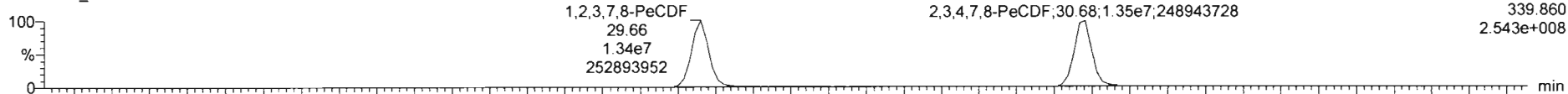
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
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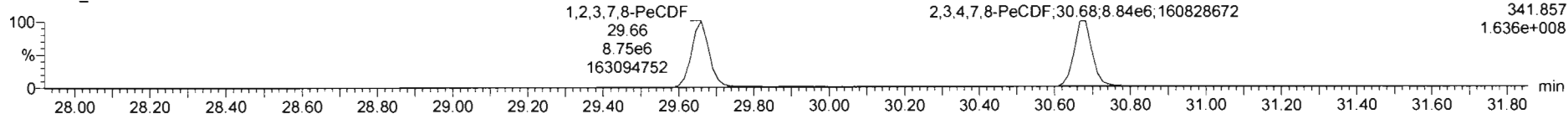
1,2,3,7,8-PeCDF

200306R2_6



F2:Voltage SIR,EI+
339.860
2.543e+008

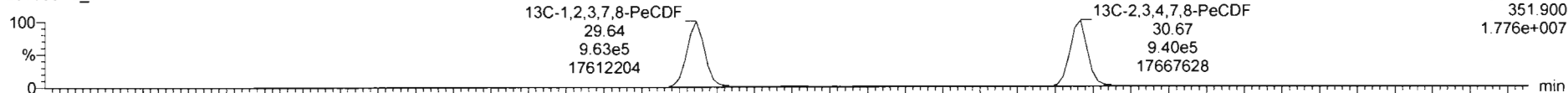
200306R2_6



F2:Voltage SIR,EI+
341.857
1.636e+008

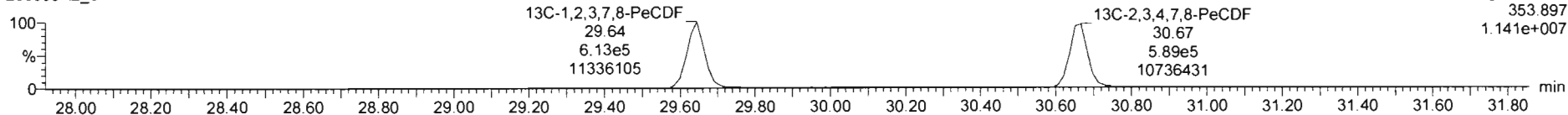
13C-1,2,3,7,8-PeCDF

200306R2_6



F2:Voltage SIR,EI+
351.900
1.776e+007

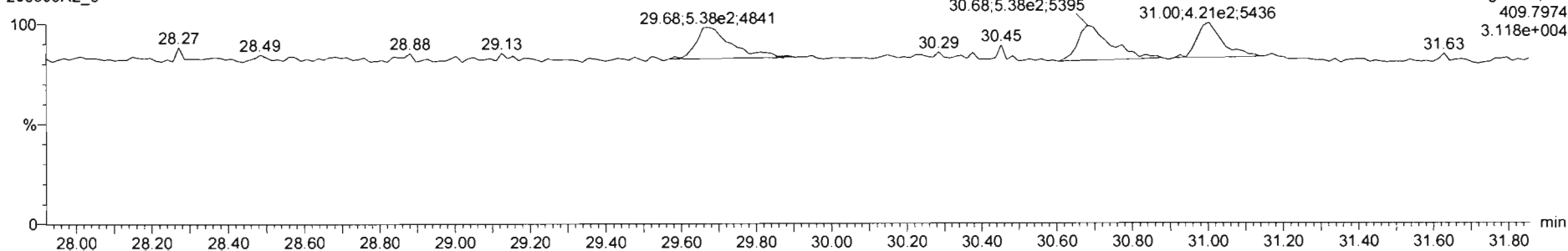
200306R2_6



F2:Voltage SIR,EI+
353.897
1.141e+007

DPE2

200306R2_6



F2:Voltage SIR,EI+
409.7974
3.118e+004

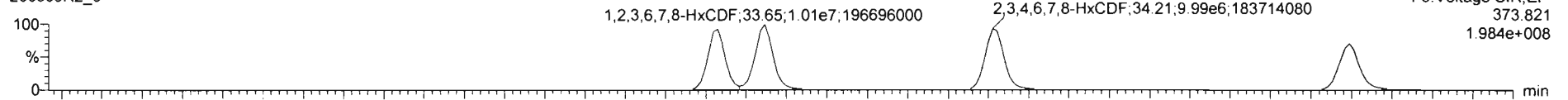
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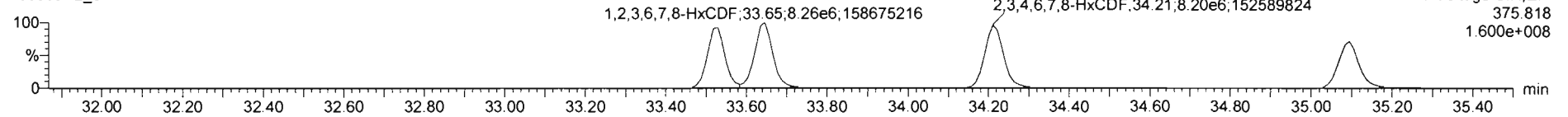
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1,2,3,4,7,8-HxCDF

200306R2_6

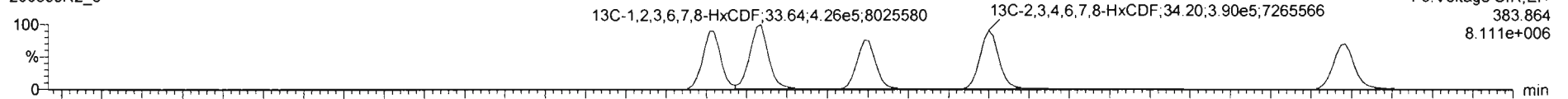


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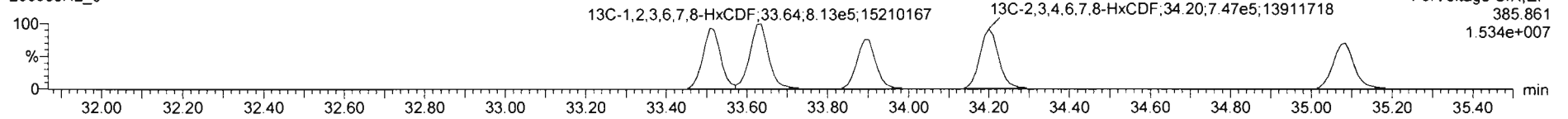


13C-1,2,3,4,7,8-HxCDF

200306R2_6

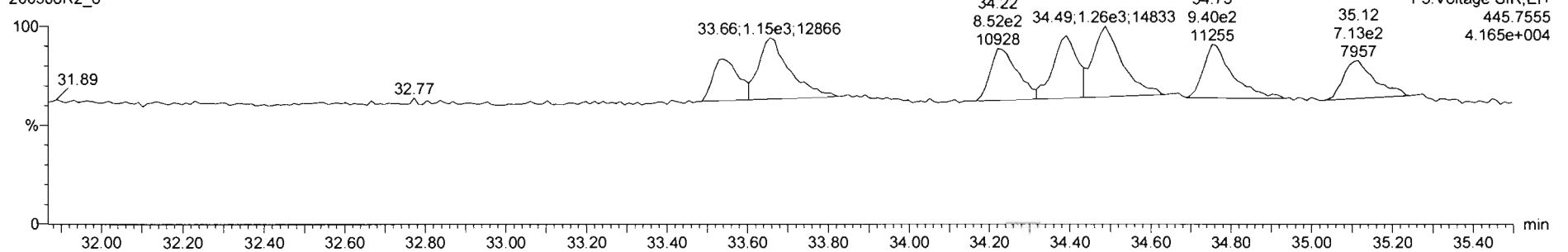


200306R2_6



DPE3

200306R2_6



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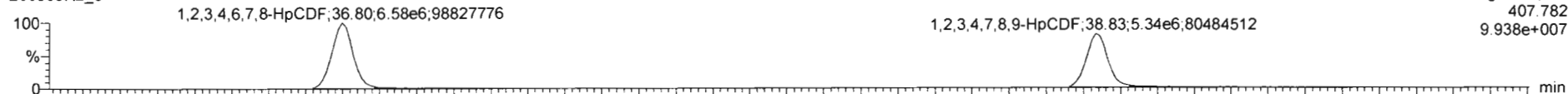
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

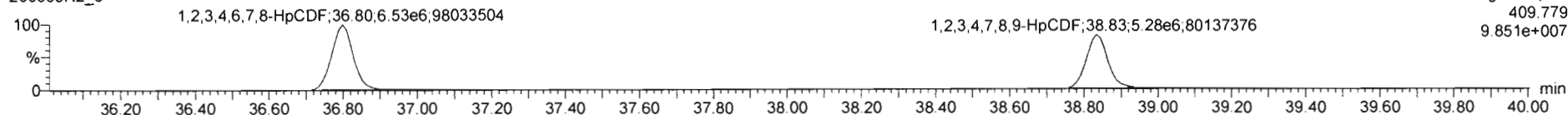
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1,2,3,4,6,7,8-HpCDF

200306R2_6

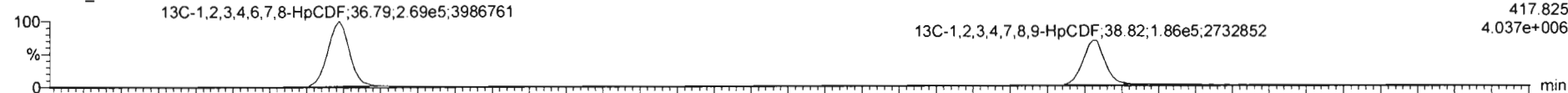


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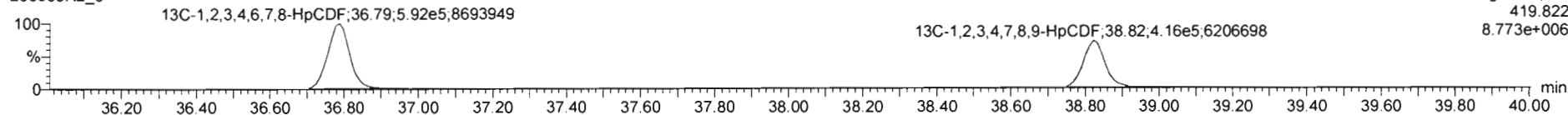


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200306R2_6

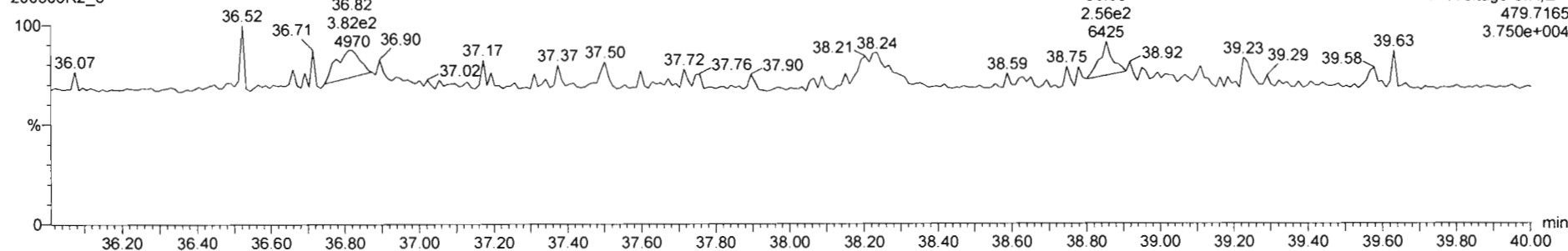


200306R2_6



DPE4

200306R2_6



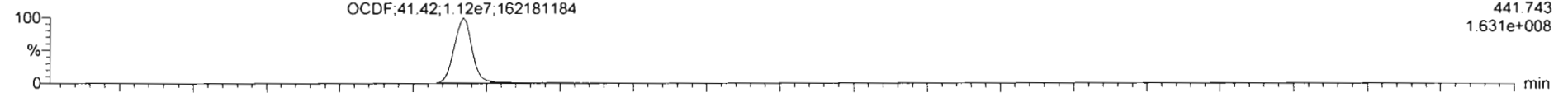
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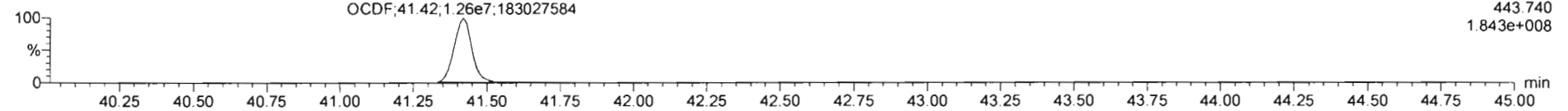
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OCDF

200306R2_6

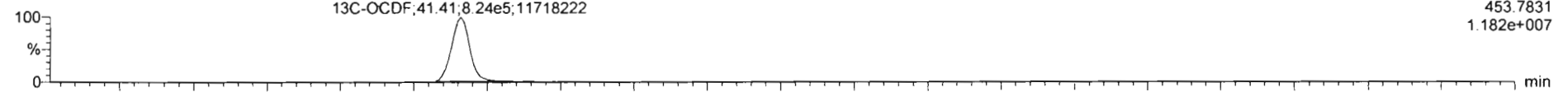


200306R2_6

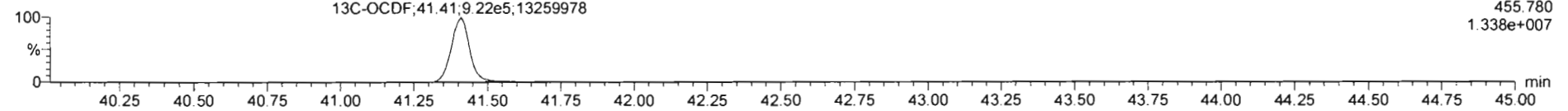


13C-OCDF

200306R2_6

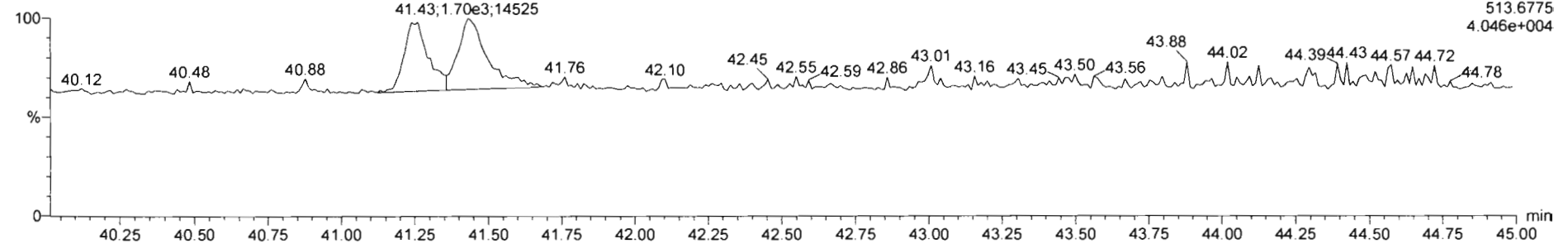


200306R2_6



DPE5

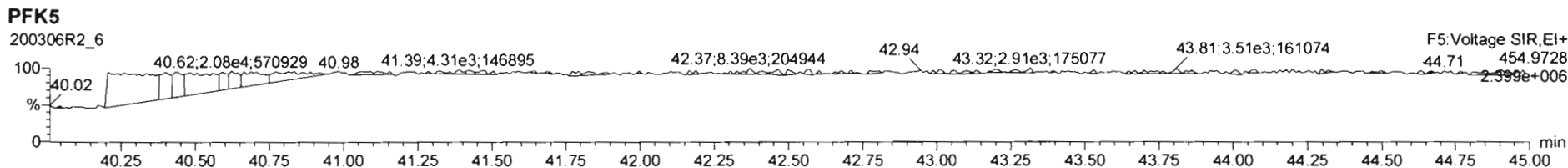
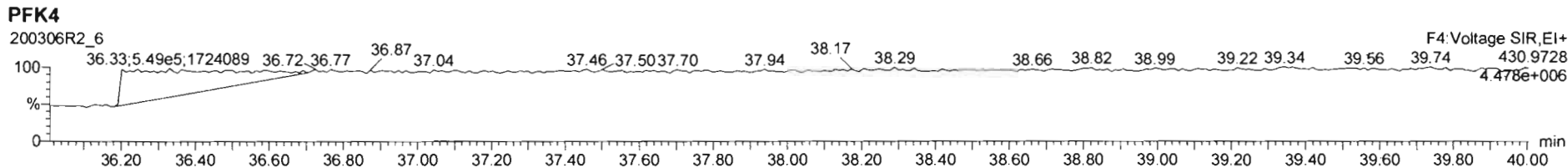
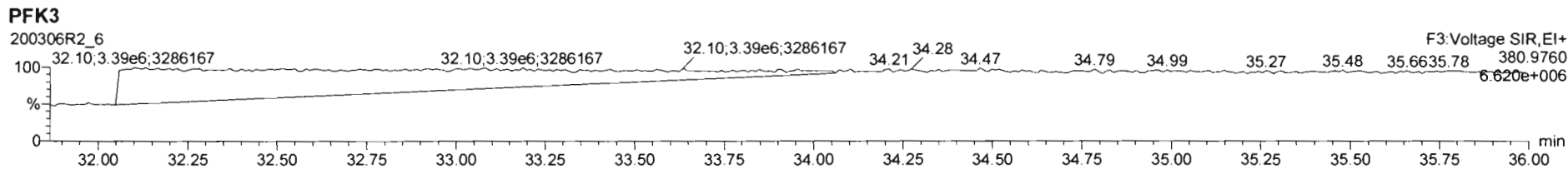
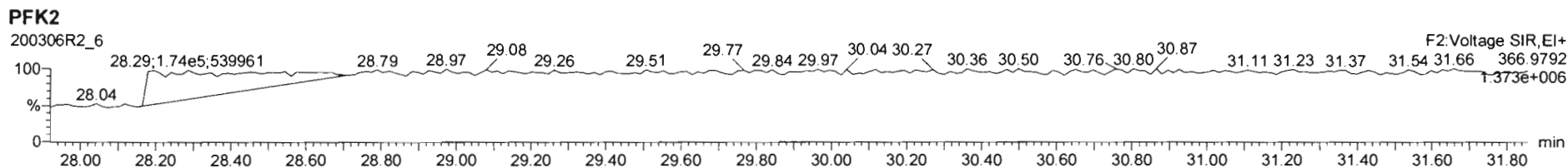
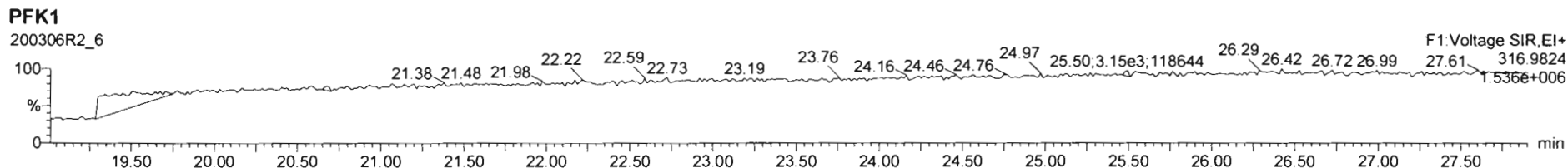
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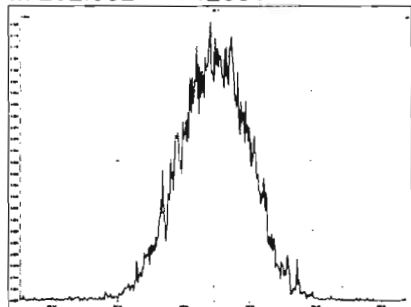
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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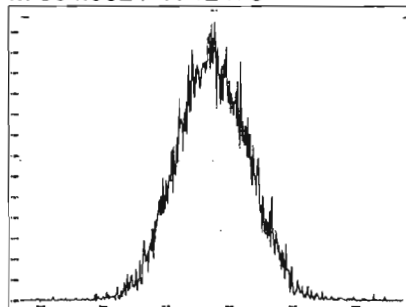


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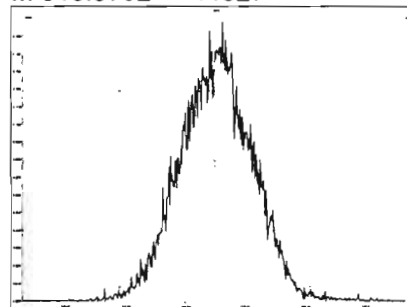
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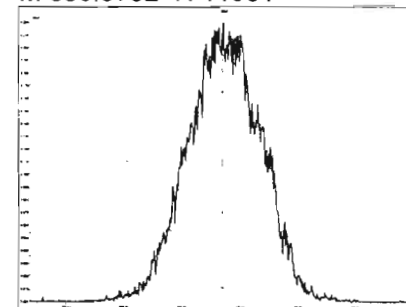
M 304.9824 R 12475



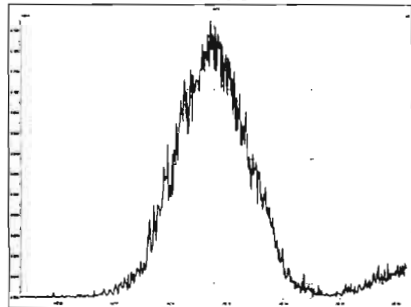
M 318.9792 R 11827



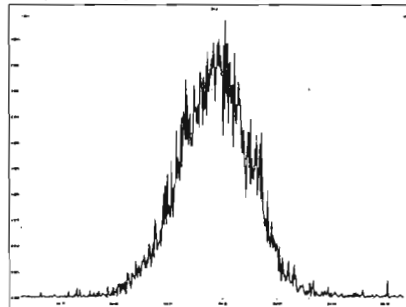
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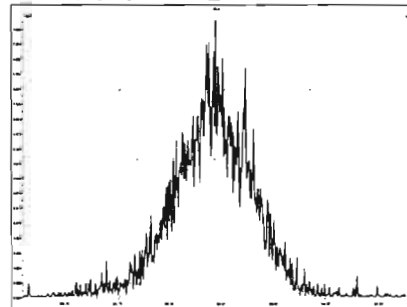
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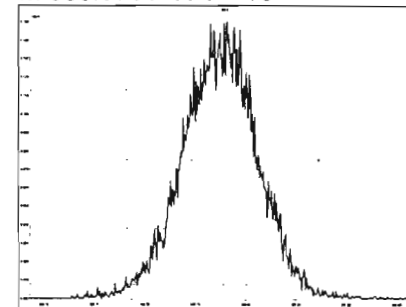
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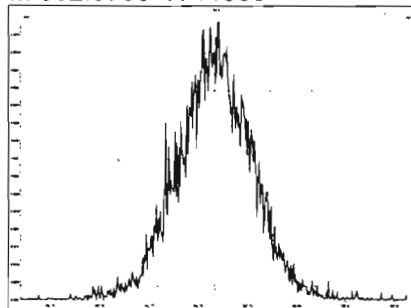
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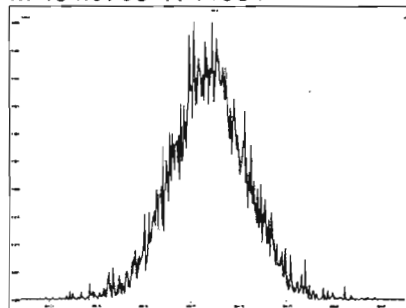
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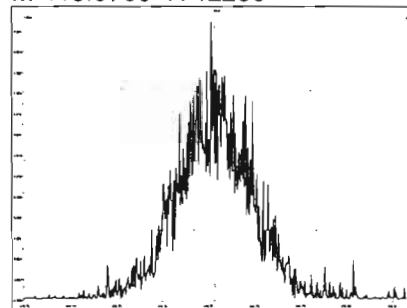
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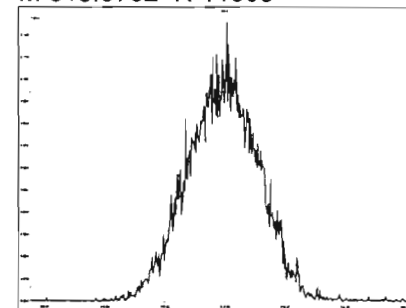
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M 416.9760 R 12269

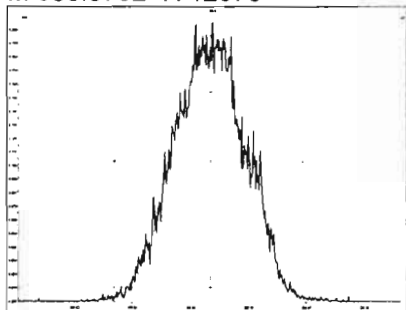


M 318.9792 R 11905

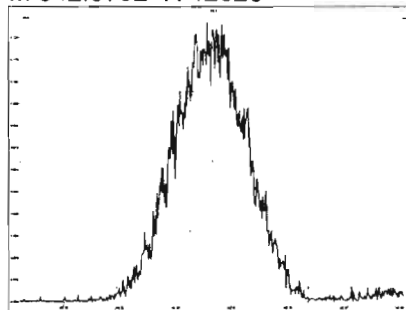


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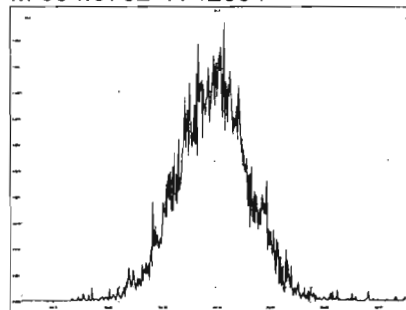
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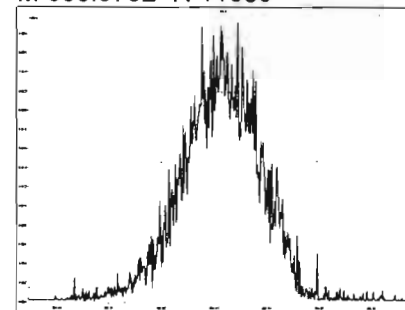
M 342.9792 R 12026



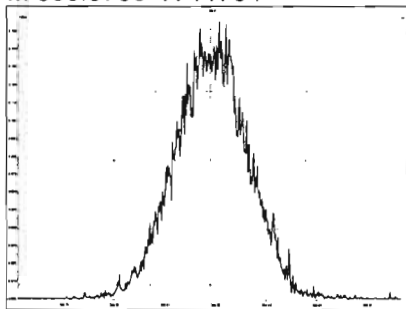
M 354.9792 R 12854



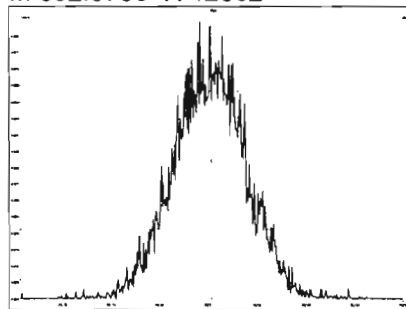
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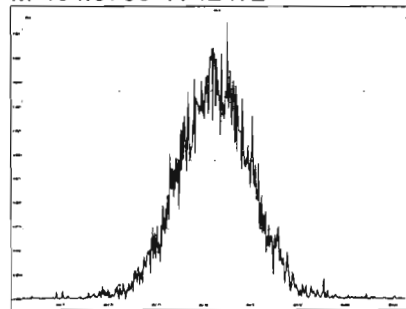
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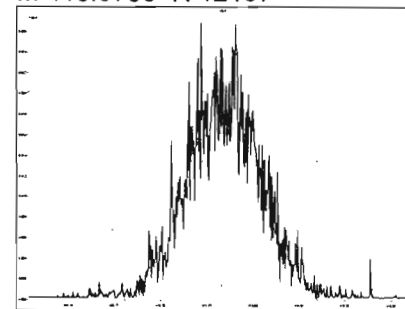
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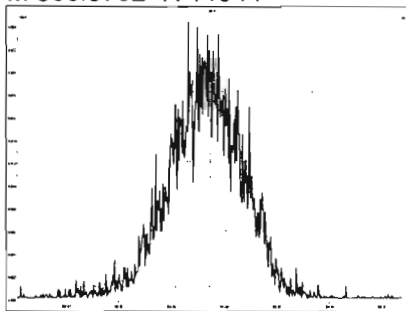
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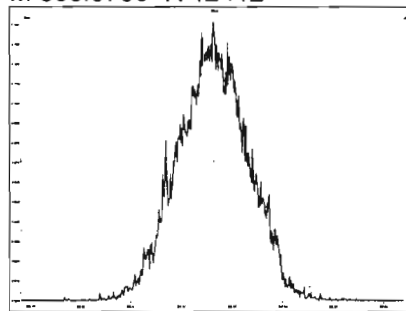
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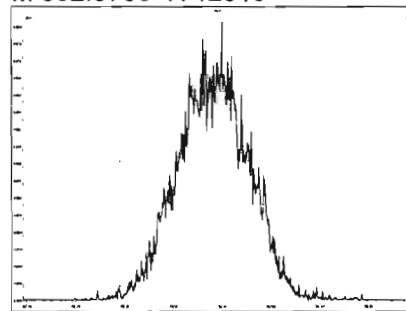
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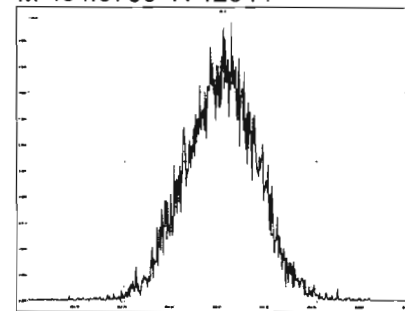
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M 392.9760 R 12319

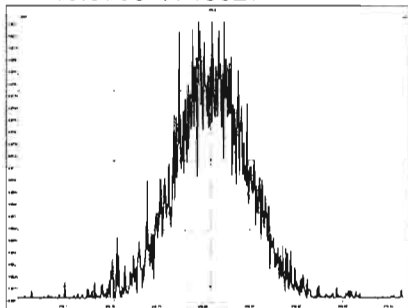


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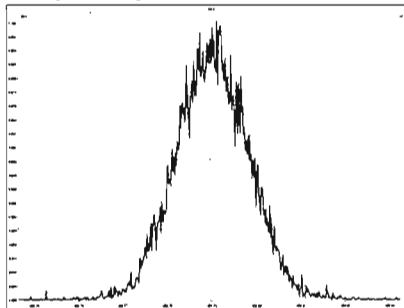


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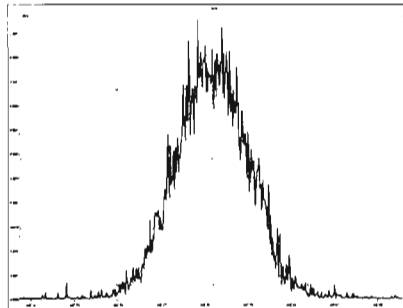
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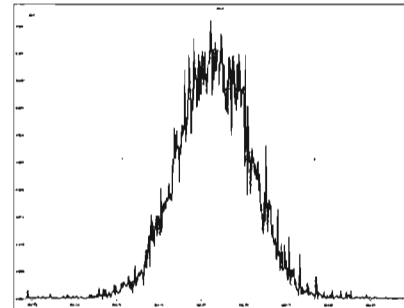
M 430.9728 R 11963



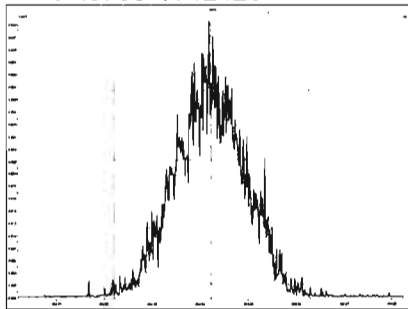
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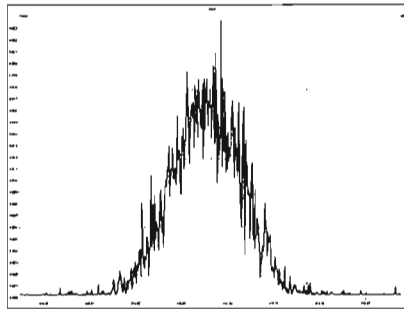
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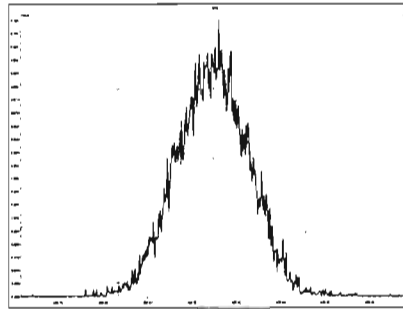
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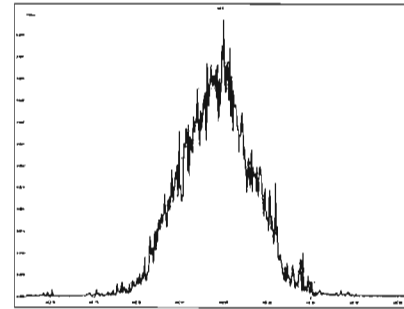
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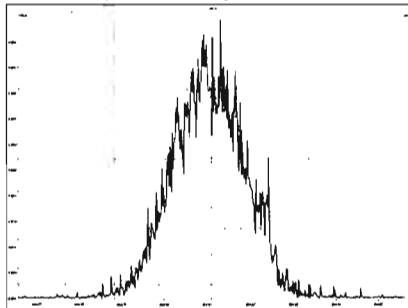
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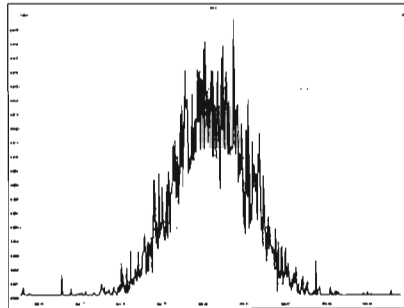
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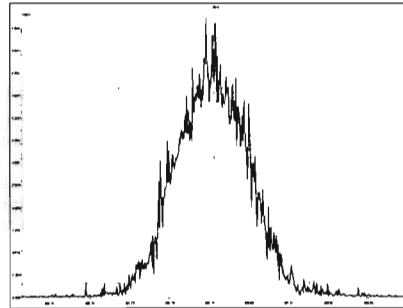
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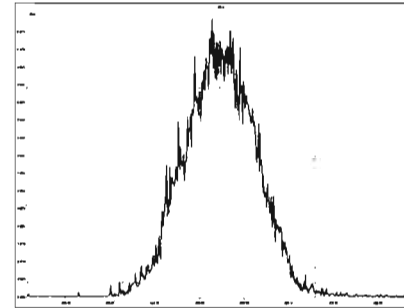
M 466.9728 R 13192



M 480.9696 R 12284

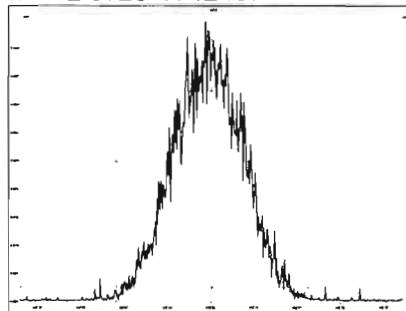


M 430.9728 R 12416

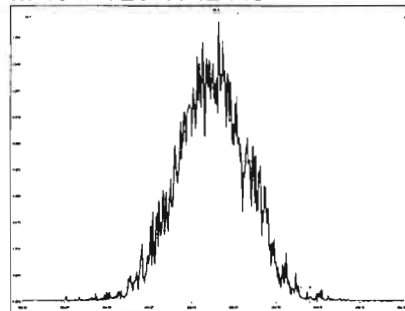


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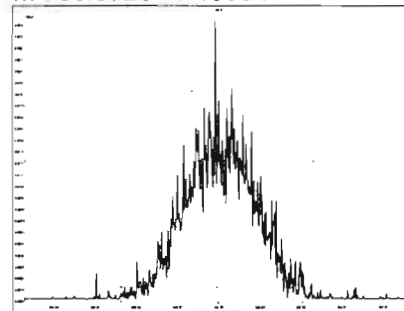
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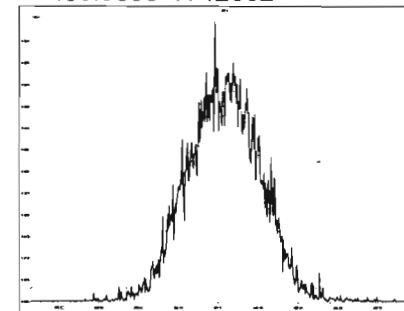
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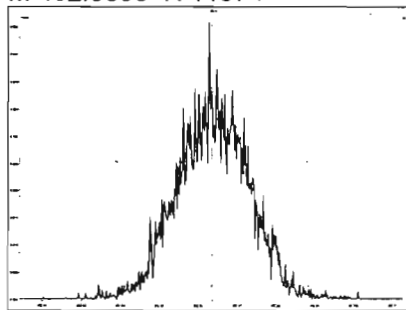
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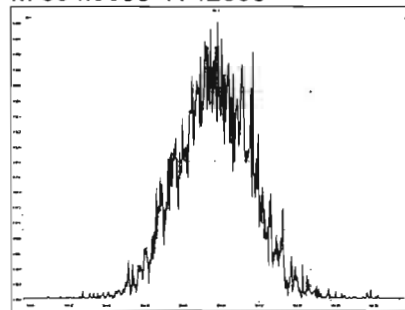
M 480.9696 R 12362



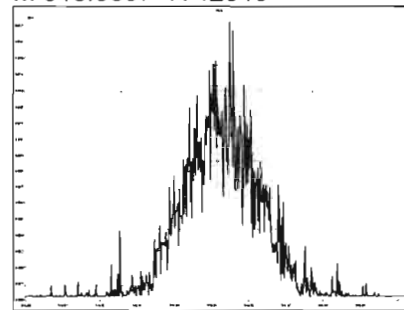
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Dataset: U:\VG12.PRO\Results\200306R2\200306R2-8.qld

Last Altered: Monday, March 09, 2020 09:14:18 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:15:42 Pacific Daylight Time

GRB 03/09/2020

0703/09/2020

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

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	9.28e4	0.77	NO	0.983	1.000	25.781	25.78	1.001	1.001	10.508	105	0.0462	10.5
2	2 1,2,3,7,8-PeCDD	3.71e5	0.63	NO	0.921	1.000	30.979	30.97	1.001	1.000	54.038	108	0.0655	54.0
3	3 1,2,3,4,7,8-HxCDD	3.32e5	1.24	NO	1.13	1.000	34.349	34.36	1.000	1.001	53.824	108	0.101	53.8
4	4 1,2,3,6,7,8-HxCDD	3.81e5	1.27	NO	0.984	1.000	34.445	34.46	1.000	1.000	57.230	114	0.0994	57.2
5	5 1,2,3,7,8,9-HxCDD	3.33e5	1.22	NO	0.967	1.000	34.722	34.72	1.000	1.000	56.617	113	0.117	56.6
6	6 1,2,3,4,6,7,8-HpCDD	2.52e5	1.04	NO	1.01	1.000	38.184	38.19	1.000	1.001	55.470	111	0.201	55.5
7	7 OCDD	4.61e5	0.91	NO	1.05	1.000	41.208	41.22	1.000	1.000	104.33	104	0.212	104
8	8 2,3,7,8-TCDF	1.19e5	0.80	NO	0.915	1.000	24.817	24.81	1.001	1.001	10.876	109	0.0390	10.9
9	9 1,2,3,7,8-PeCDF	5.58e5	1.55	NO	0.959	1.000	29.635	29.63	1.001	1.001	53.583	107	0.0901	53.6
10	10 2,3,4,7,8-PeCDF	6.50e5	1.53	NO	1.00	1.000	30.667	30.65	1.001	1.000	60.478	121	0.0822	60.5
11	11 1,2,3,4,7,8-HxCDF	4.39e5	1.22	NO	1.04	1.000	33.486	33.50	1.000	1.000	56.277	113	0.116	56.3
12	12 1,2,3,6,7,8-HxCDF	4.83e5	1.22	NO	1.01	1.000	33.614	33.63	1.000	1.001	58.225	116	0.120	58.2
13	13 2,3,4,6,7,8-HxCDF	4.58e5	1.23	NO	1.09	1.000	34.213	34.19	1.001	1.000	53.808	108	0.121	53.8
14	14 1,2,3,7,8,9-HxCDF	3.65e5	1.23	NO	1.03	1.000	35.052	35.06	1.000	1.000	54.692	109	0.173	54.7
15	15 1,2,3,4,6,7,8-HpCDF	3.38e5	1.03	NO	1.05	1.000	36.793	36.78	1.001	1.001	55.962	112	0.171	56.0
16	16 1,2,3,4,7,8,9-HpCDF	2.60e5	1.01	NO	1.21	1.000	38.801	38.81	1.000	1.000	55.091	110	0.218	55.1
17	17 OCDF	5.30e5	0.88	NO	0.947	1.000	41.389	41.40	1.000	1.000	107.93	108	0.154	108
18	18 13C-2,3,7,8-TCDD	8.98e5	0.78	NO	1.18	1.000	25.781	25.75	1.029	1.027	94.504	94.5	0.106	
19	19 13C-1,2,3,7,8-PeCDD	7.45e5	0.64	NO	0.864	1.000	30.974	30.96	1.236	1.235	107.38	107	0.187	
20	20 13C-1,2,3,4,7,8-HxCDD	5.45e5	1.26	NO	0.754	1.000	34.341	34.34	1.014	1.014	85.136	85.1	0.201	
21	21 13C-1,2,3,6,7,8-HxCDD	6.77e5	1.26	NO	0.925	1.000	34.449	34.45	1.017	1.017	86.121	86.1	0.164	
22	22 13C-1,2,3,7,8,9-HxCDD	6.09e5	1.27	NO	0.829	1.000	34.710	34.71	1.025	1.025	86.383	86.4	0.183	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.51e5	1.04	NO	0.598	1.000	38.158	38.17	1.127	1.127	88.689	88.7	0.205	
24	24 13C-OCDD	8.40e5	0.87	NO	0.571	1.000	41.298	41.21	1.219	1.217	173.12	86.6	0.205	
25	25 13C-2,3,7,8-TCDF	1.19e6	0.78	NO	1.09	1.000	24.801	24.79	0.990	0.989	86.829	86.8	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.09e6	1.58	NO	0.876	1.000	29.643	29.61	1.183	1.182	98.396	98.4	0.243	
27	27 13C-2,3,4,7,8-PeCDF	1.07e6	1.60	NO	0.844	1.000	30.655	30.64	1.223	1.222	100.81	101	0.253	
28	28 13C-1,2,3,4,7,8-HxCDF	7.52e5	0.52	NO	1.00	1.000	33.491	33.49	0.989	0.989	88.441	88.4	0.228	
29	29 13C-1,2,3,6,7,8-HxCDF	8.18e5	0.53	NO	1.12	1.000	33.599	33.60	0.992	0.992	86.171	86.2	0.204	
30	30 13C-2,3,4,6,7,8-HxCDF	7.80e5	0.52	NO	1.04	1.000	34.178	34.18	1.009	1.009	88.698	88.7	0.220	
31	31 13C-1,2,3,7,8,9-HxCDF	6.50e5	0.50	NO	0.873	1.000	35.049	35.05	1.035	1.035	87.589	87.6	0.261	

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-8.qld

Last Altered: Monday, March 09, 2020 09:14:18 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:15:42 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.76e5	0.45	NO	0.771	1.000	36.759	36.76	1.085	1.085	87.916	87.9	0.211	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.91e5	0.44	NO	0.519	1.000	38.839	38.80	1.147	1.146	88.538	88.5	0.314	
34	34 13C-OCDF	1.04e6	0.90	NO	0.696	1.000	41.477	41.39	1.225	1.222	175.32	87.7	0.183	
35	35 37Cl-2,3,7,8-TCDD	9.59e4			1.17	1.000	25.791	25.78	1.029	1.029	10.173	102	0.0234	
36	36 13C-1,2,3,4-TCDD	8.02e5	0.79	NO	1.00	1.000	25.050	25.06	1.000	1.000	100.00	100	0.126	
37	37 13C-1,2,3,4-TCDF	1.26e6	0.80	NO	1.00	1.000	23.190	23.19	1.000	1.000	100.00	100	0.156	
38	38 13C-1,2,3,4,6,9-HxCDF	8.50e5	0.51	NO	1.00	1.000	33.880	33.87	1.000	1.000	100.00	100	0.228	

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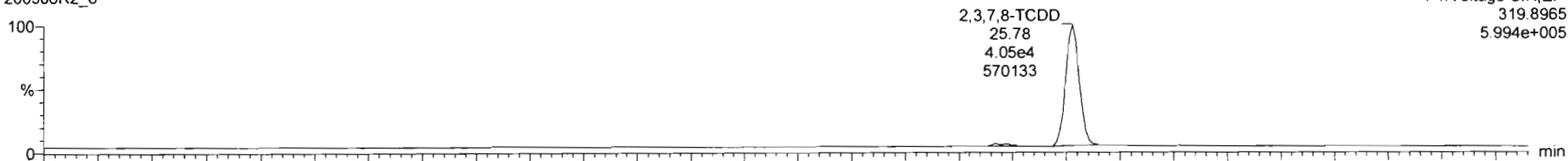
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

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

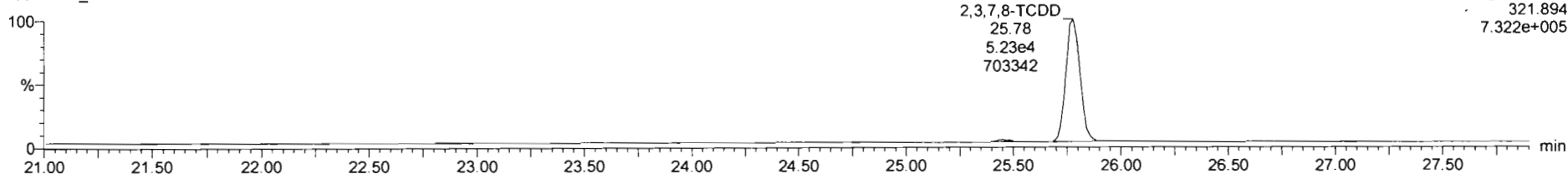
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2,3,7,8-TCDD

200306R2_8

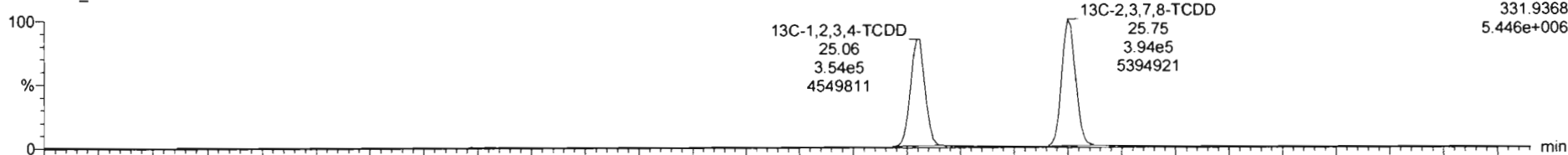


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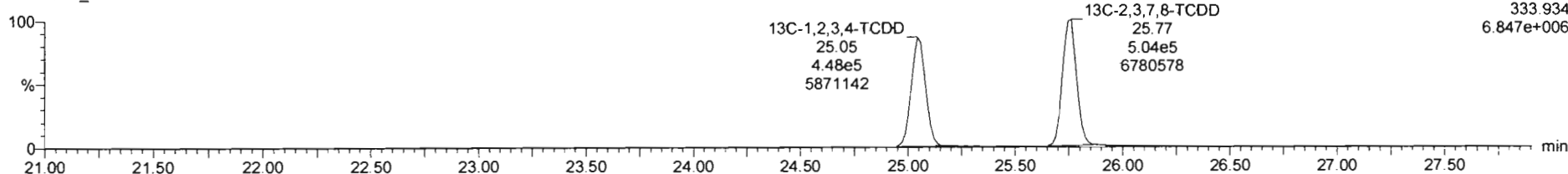


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200306R2_8



200306R2_8



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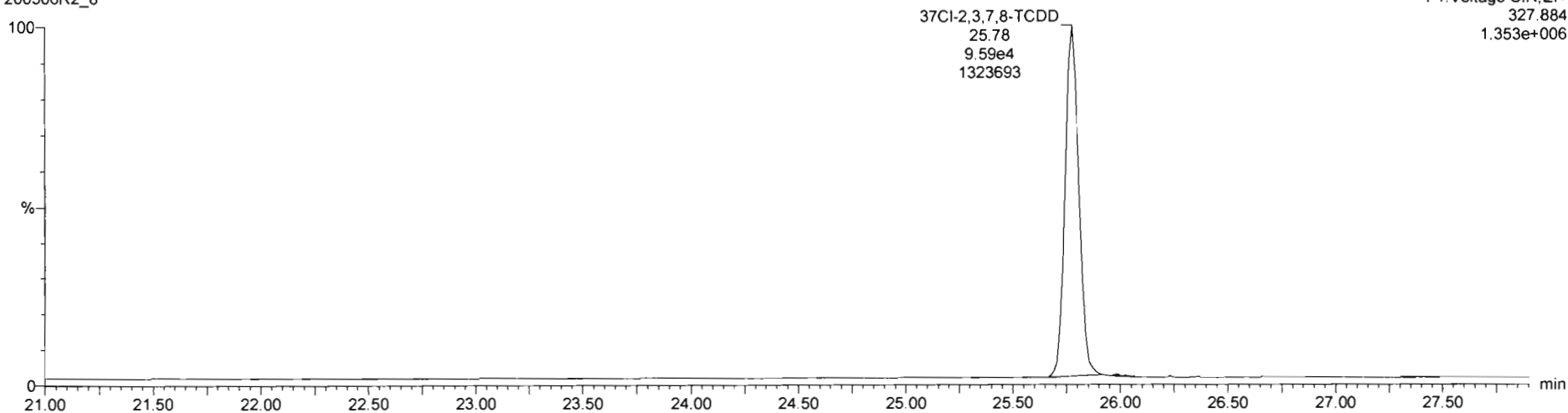
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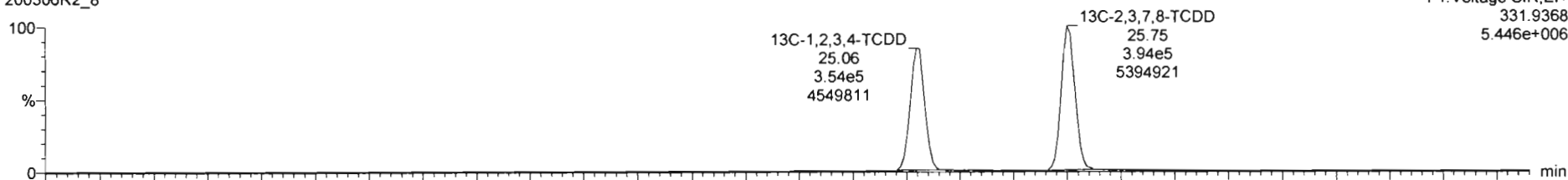
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200306R2_8

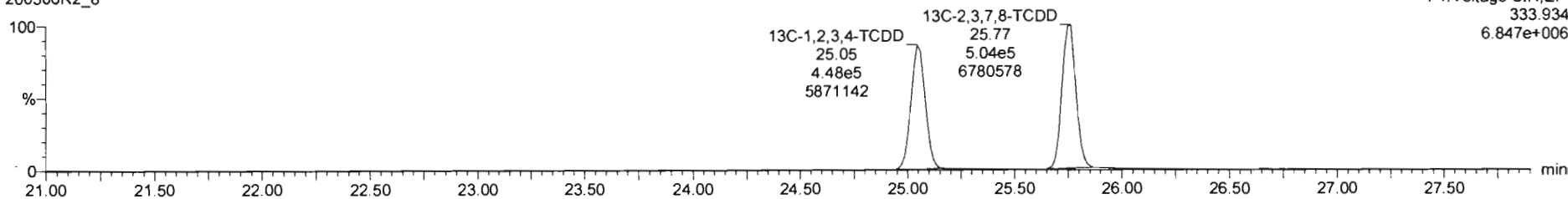


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200306R2_8



200306R2_8



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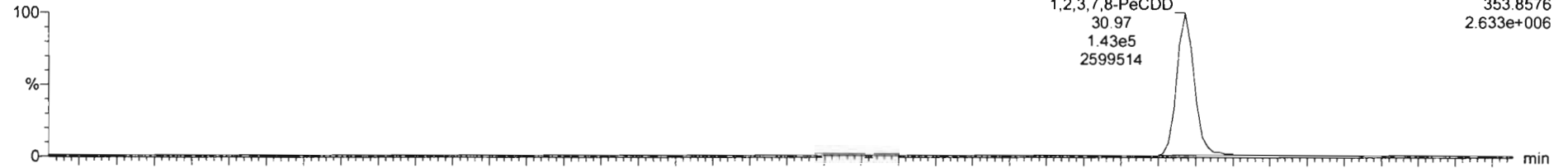
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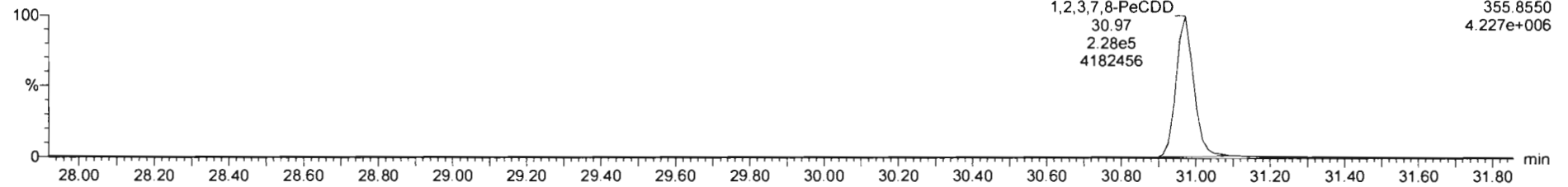
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1,2,3,7,8-PeCDD

200306R2_8

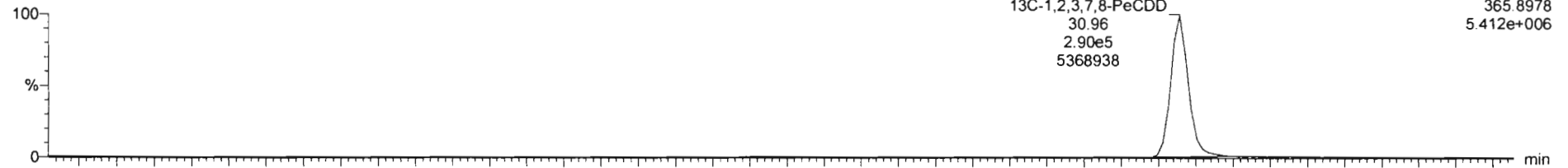


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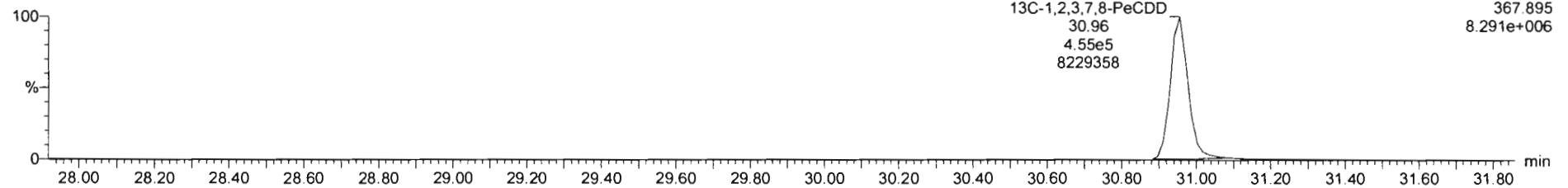


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200306R2_8



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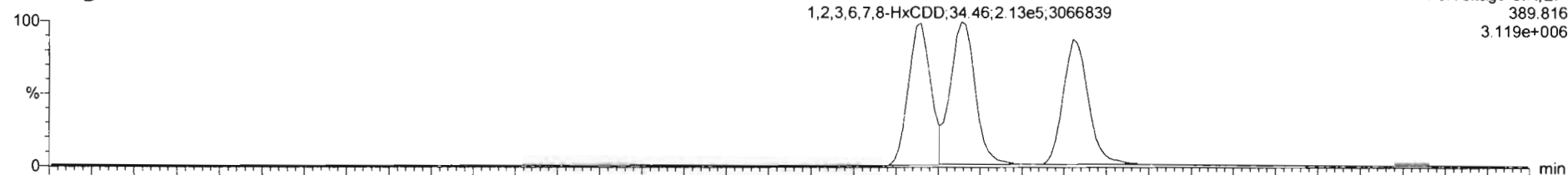
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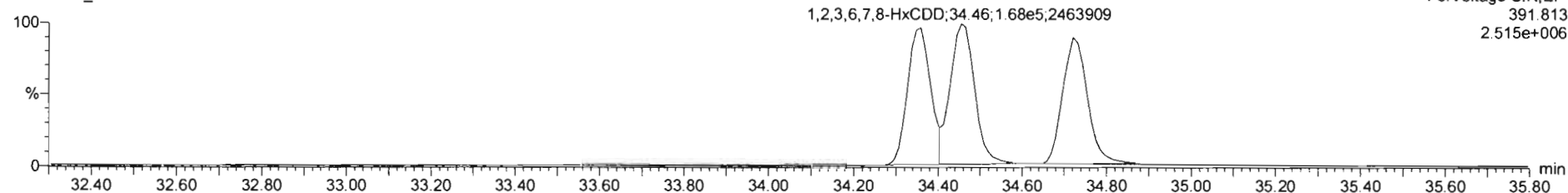
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1,2,3,4,7,8-HxCDD

200306R2_8

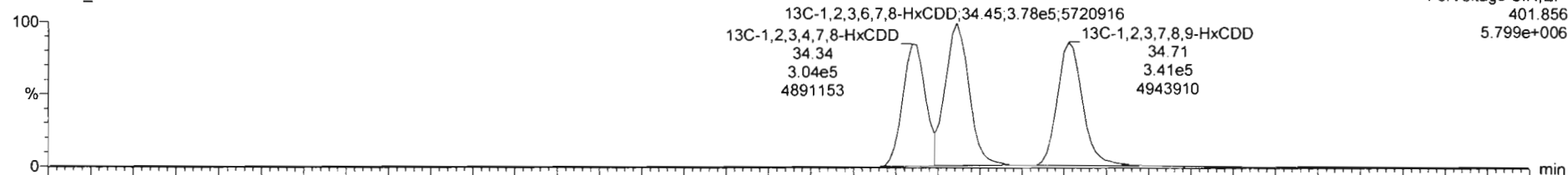


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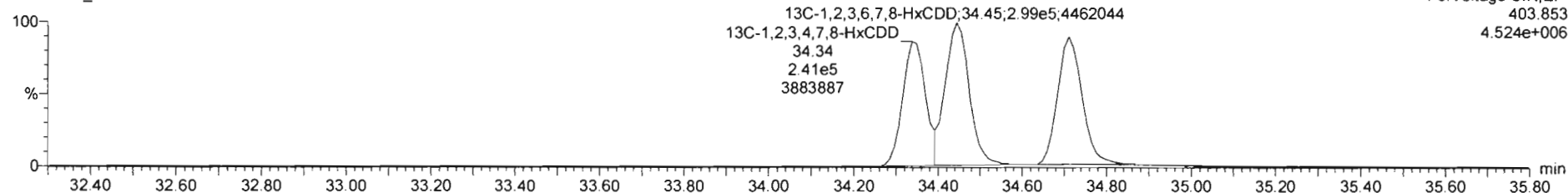


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200306R2_8



200306R2_8



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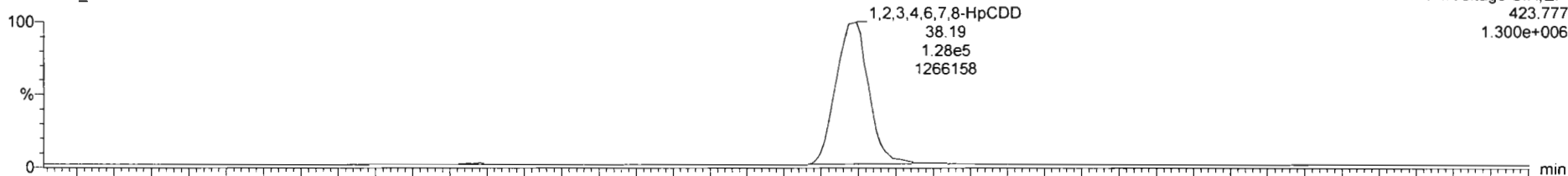
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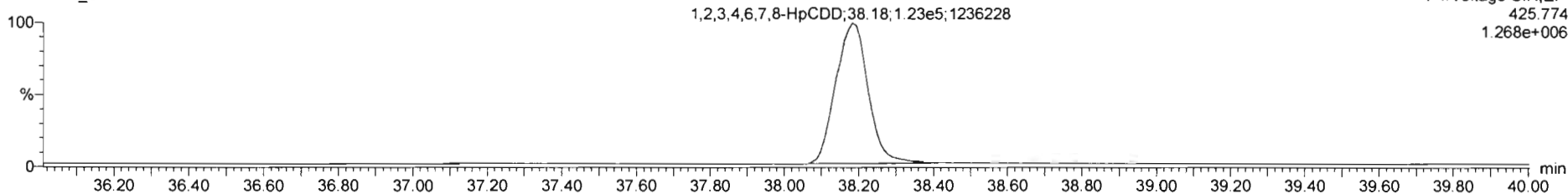
1,2,3,4,6,7,8-HpCDD

200306R2_8



F4: Voltage SIR, EI+
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1.300e+006

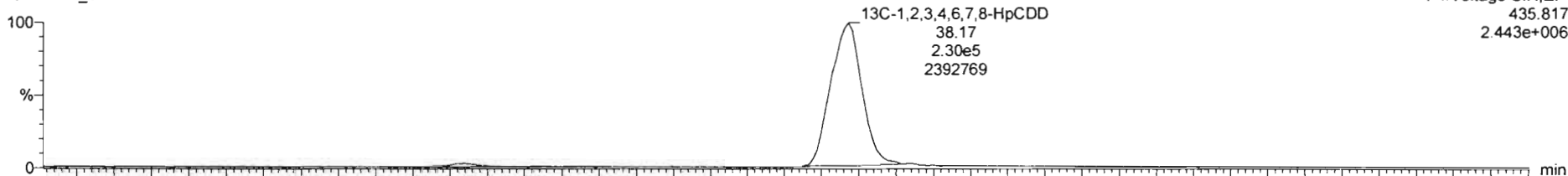
200306R2_8



F4: Voltage SIR, EI+
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1.268e+006

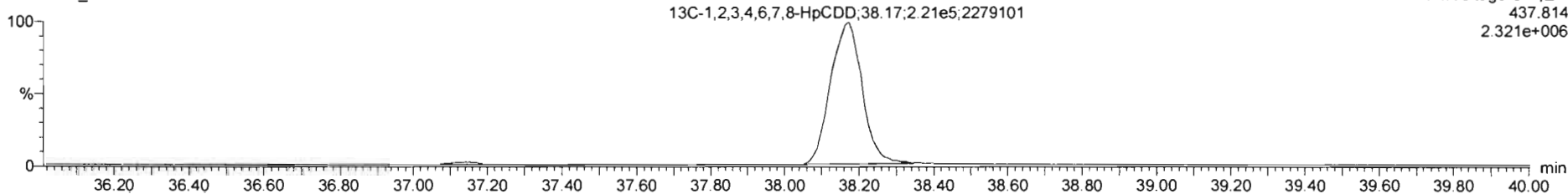
13C-1,2,3,4,6,7,8-HpCDD

200306R2_8



F4: Voltage SIR, EI+
435.817
2.443e+006

200306R2_8

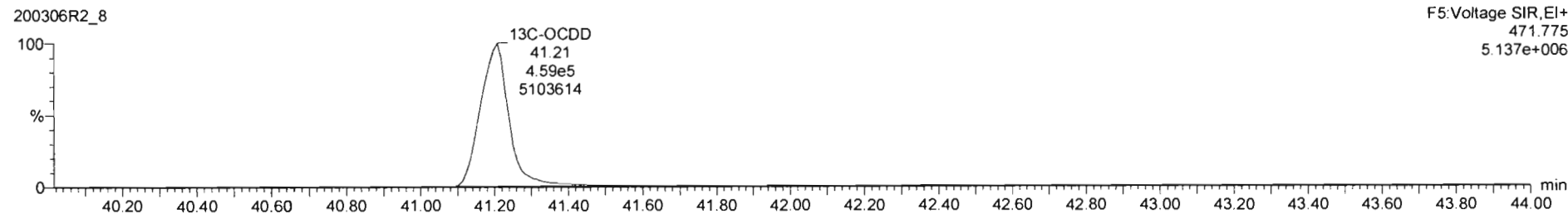
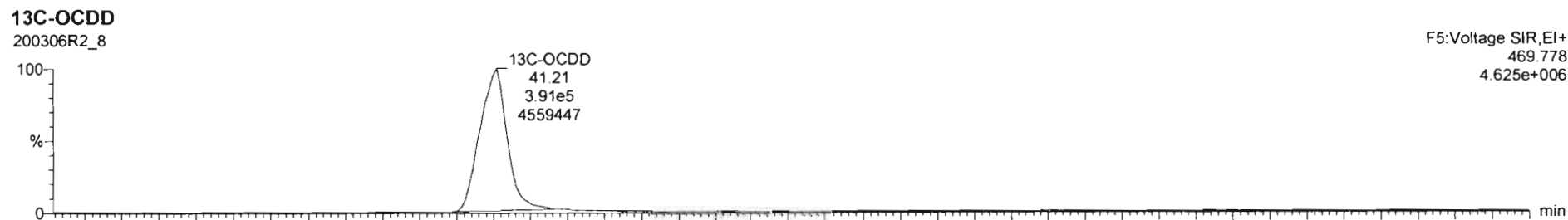
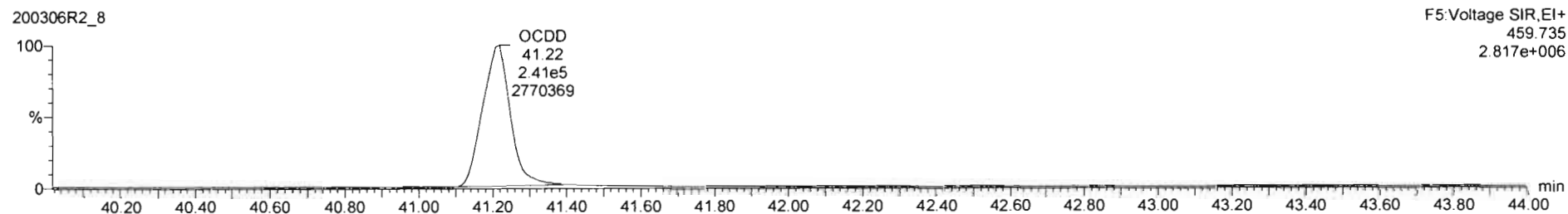
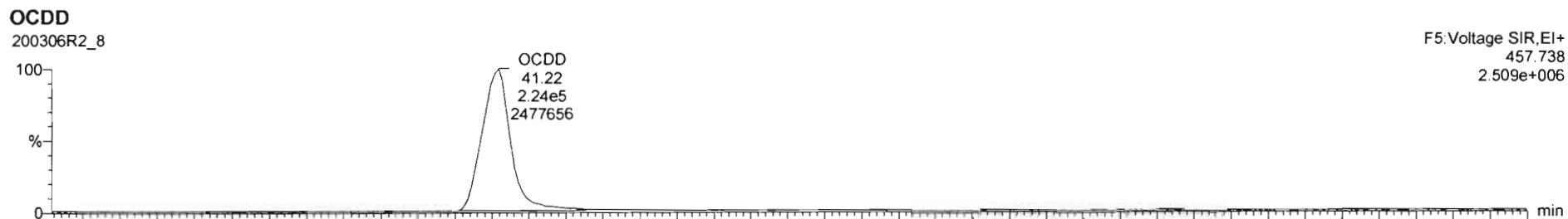


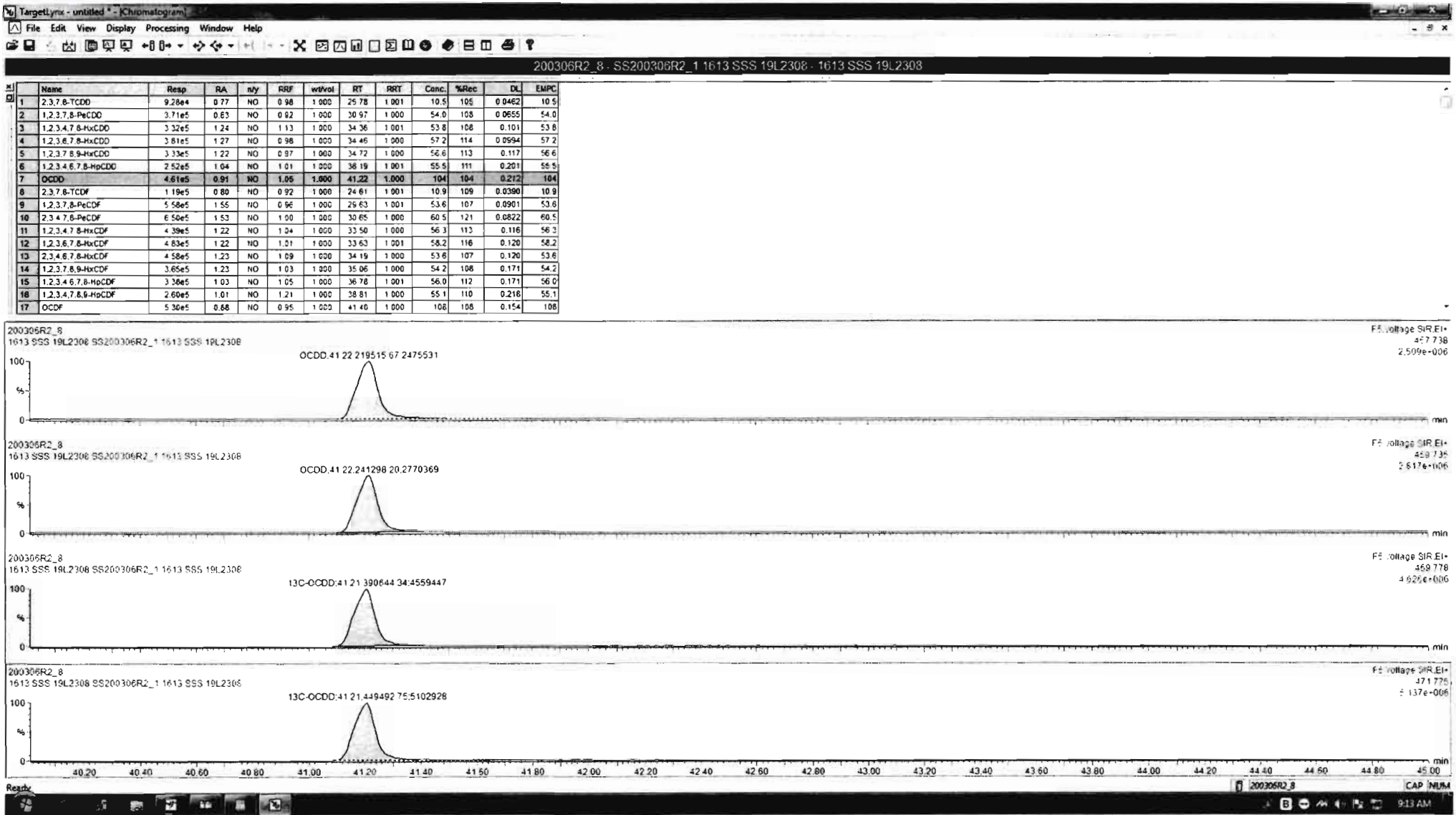
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

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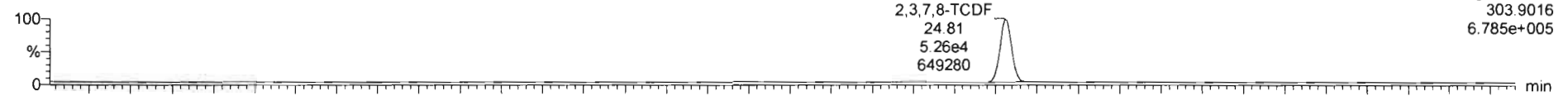
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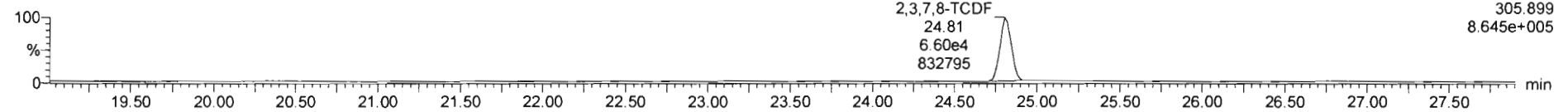
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2,3,7,8-TCDF

200306R2_8

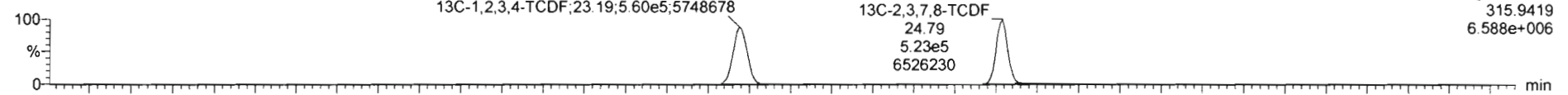


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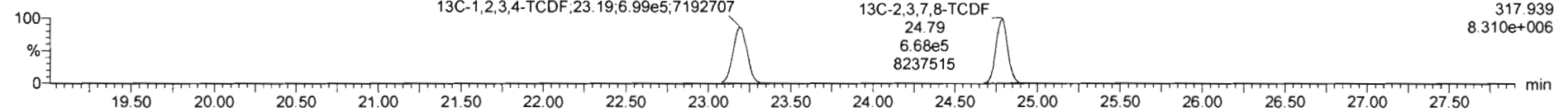


13C-2,3,7,8-TCDF

200306R2_8

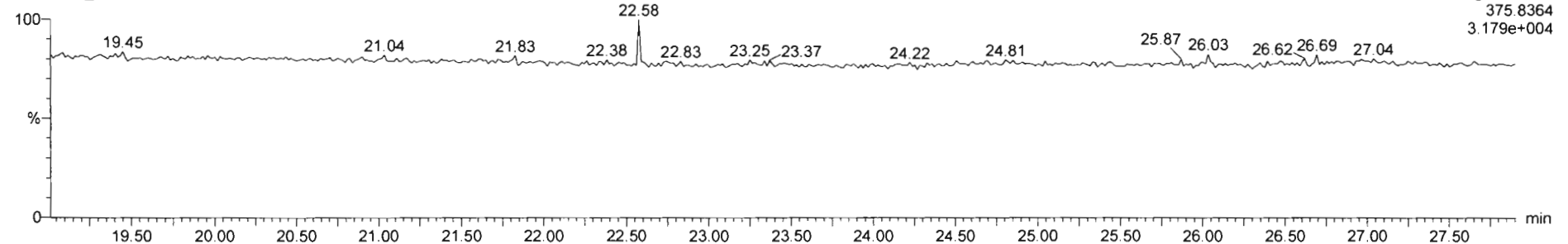


200306R2_8



DPE1

200306R2_8

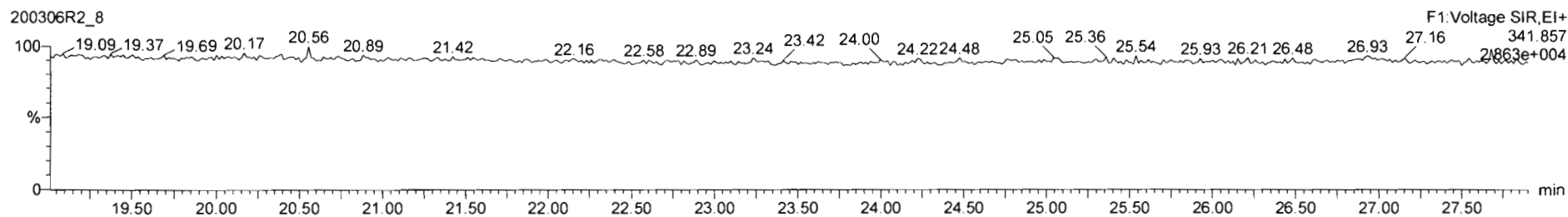
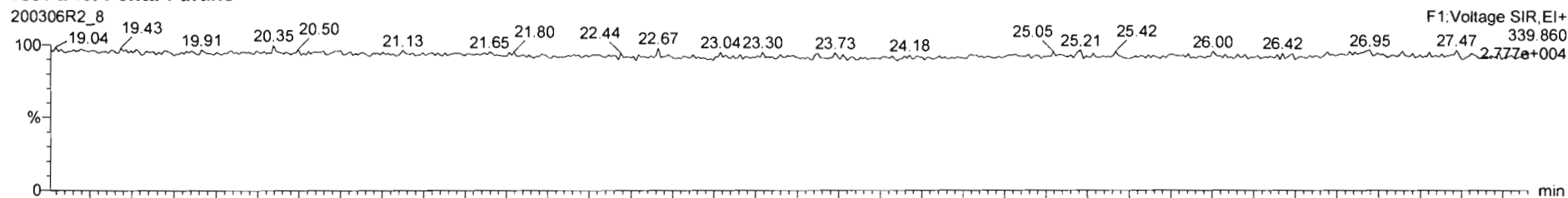


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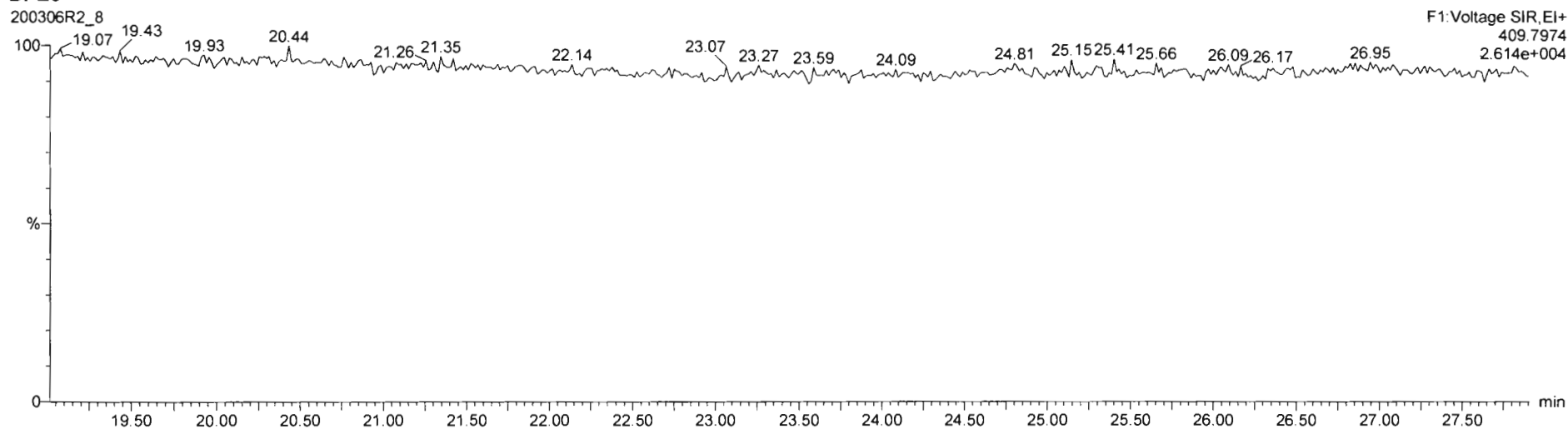
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Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



DPE6



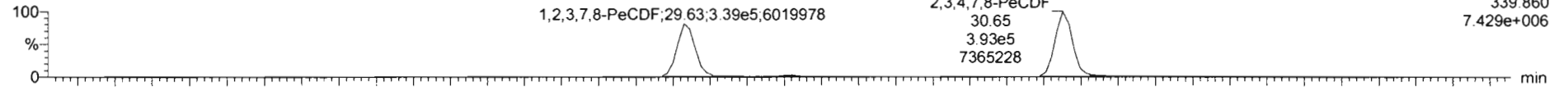
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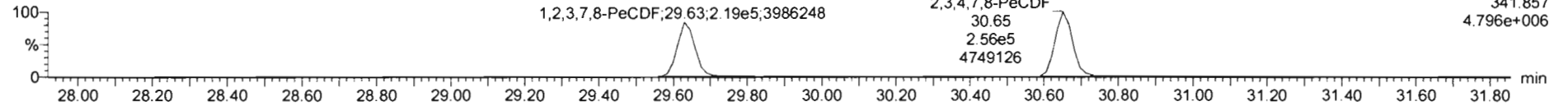
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1,2,3,7,8-PeCDF

200306R2_8

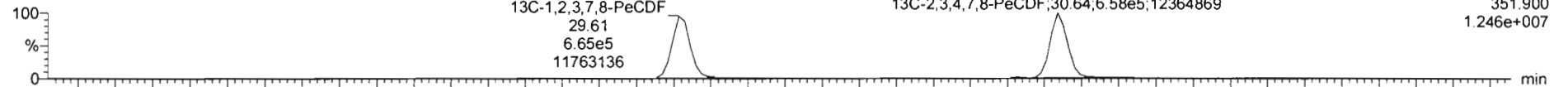


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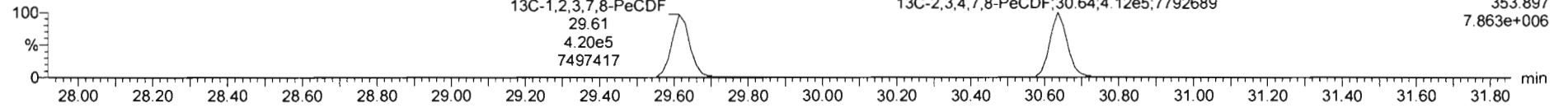


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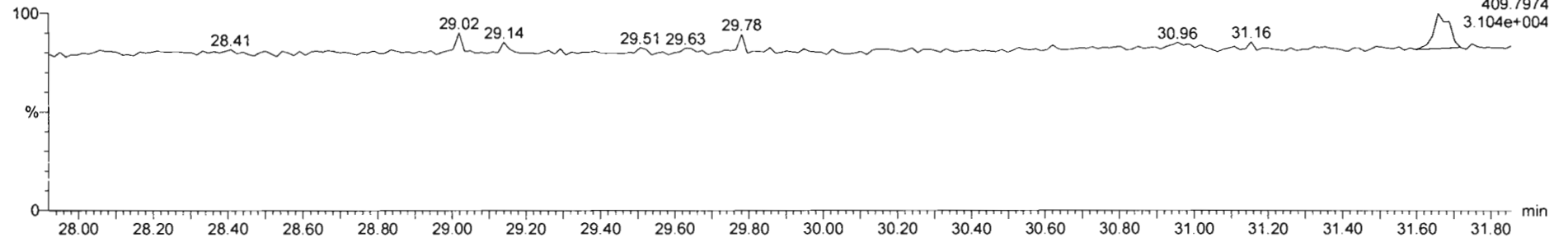


200306R2_8



DPE2

200306R2_8



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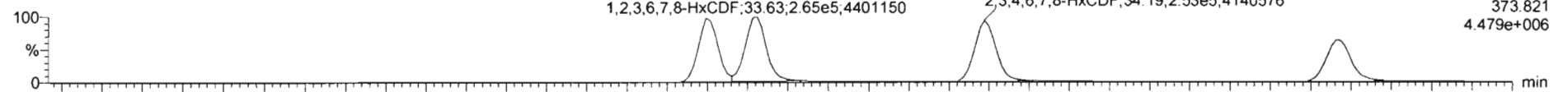
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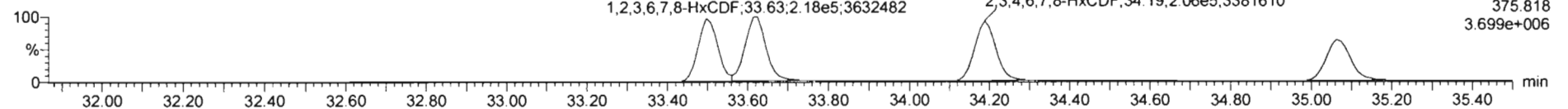
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1,2,3,4,7,8-HxCDF

200306R2_8

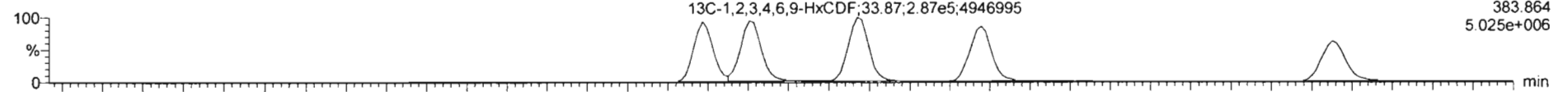


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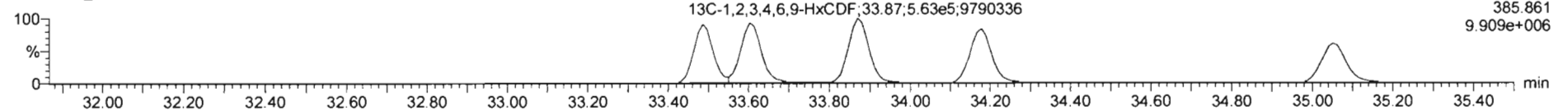


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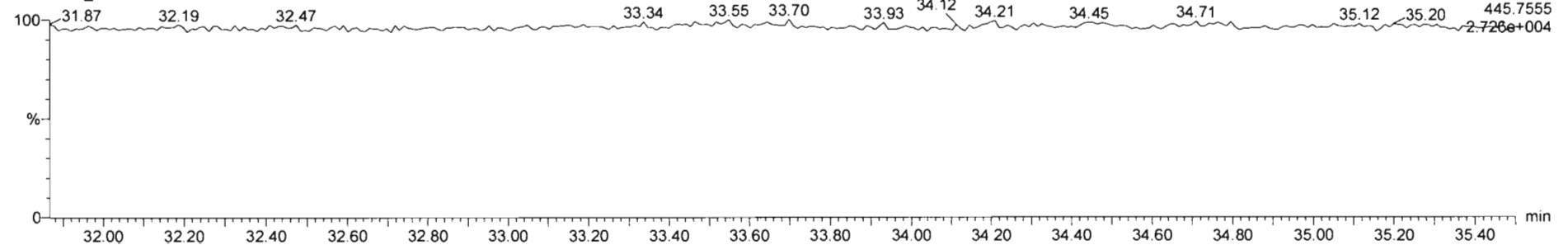


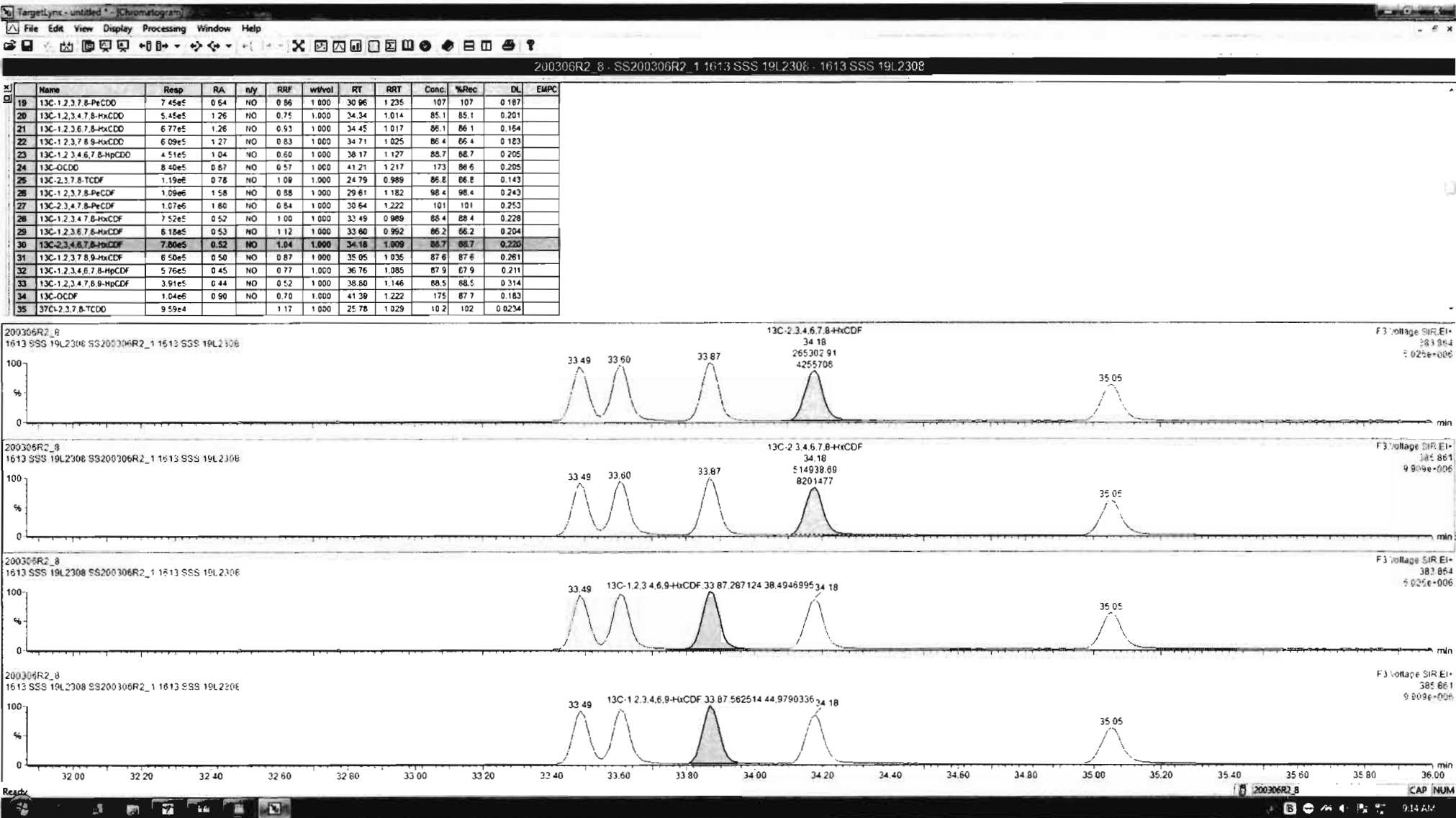
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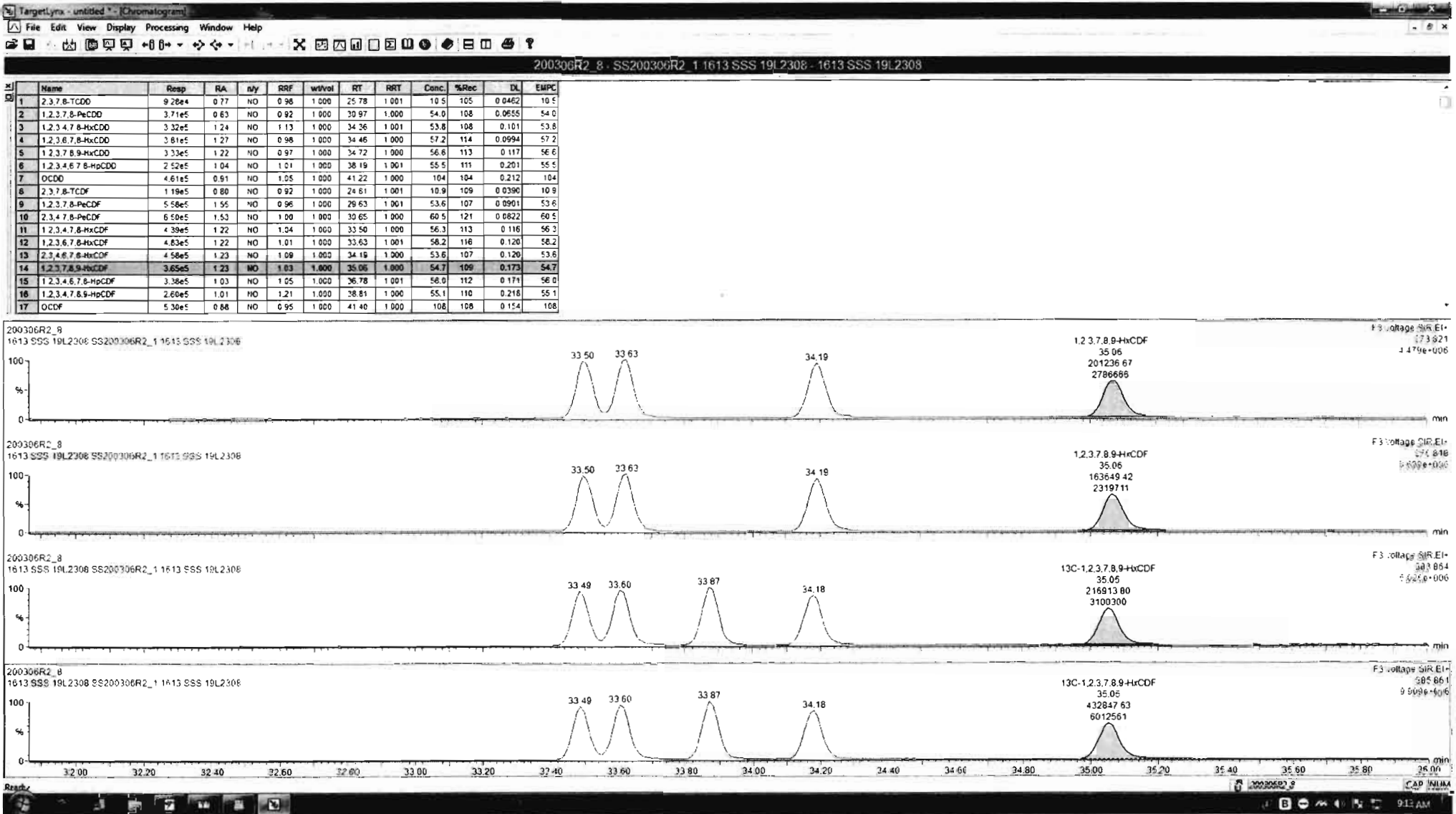


DPE3

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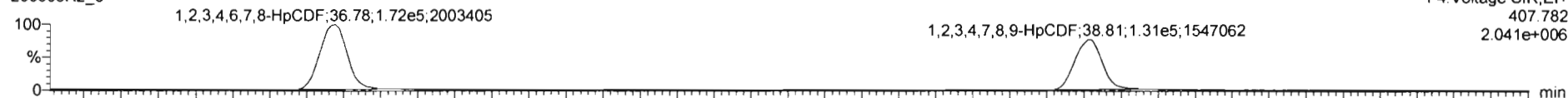
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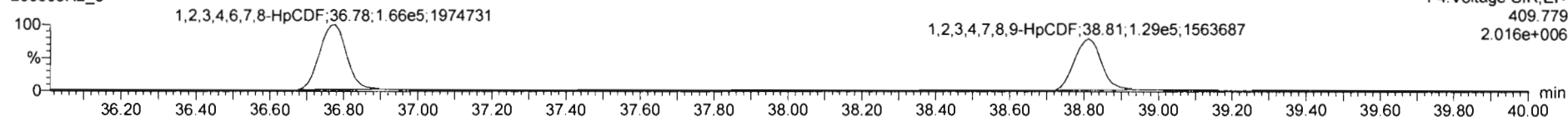
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1,2,3,4,6,7,8-HpCDF

200306R2_8



200306R2_8

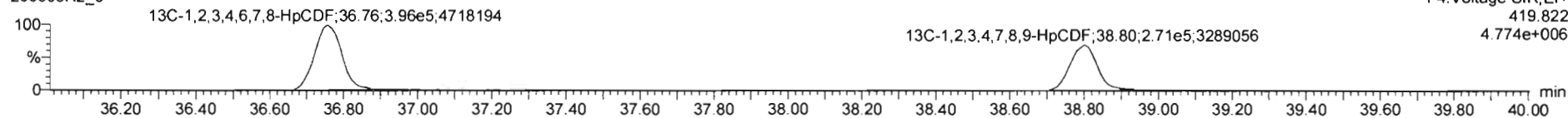


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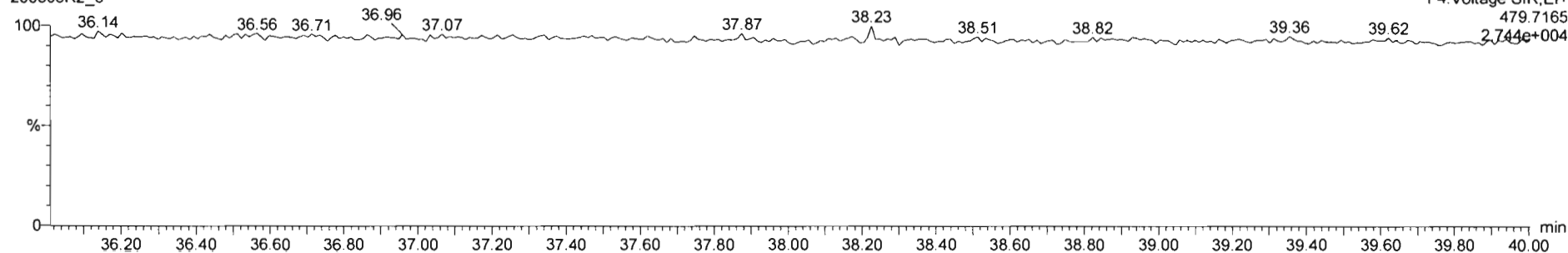


200306R2_8



DPE4

200306R2_8



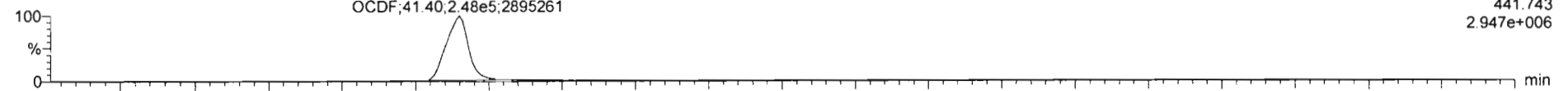
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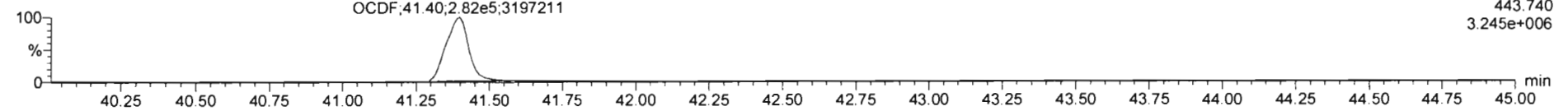
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OCDF

200306R2_8

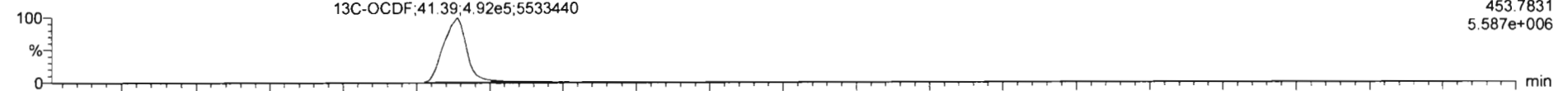


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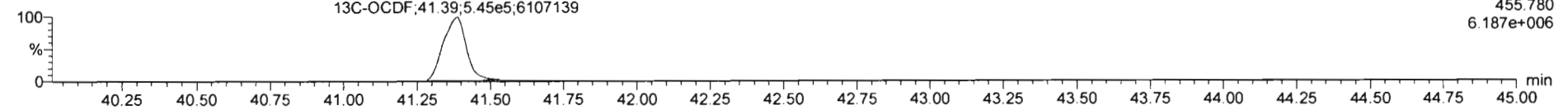


13C-OCDF

200306R2_8

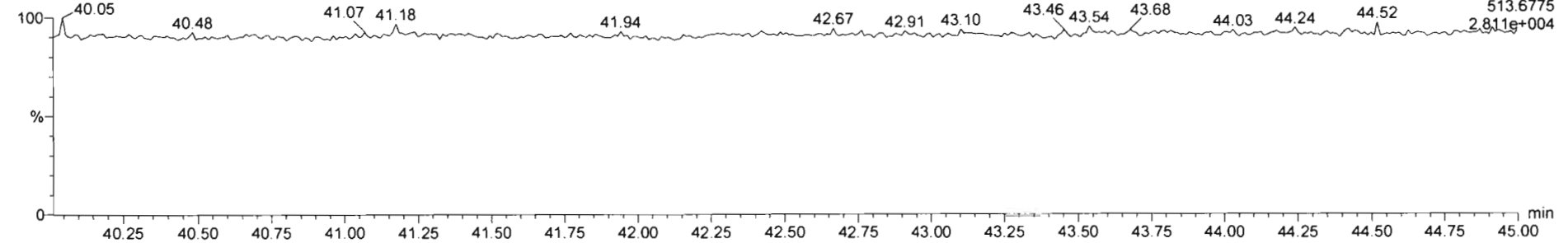


200306R2_8



DPE5

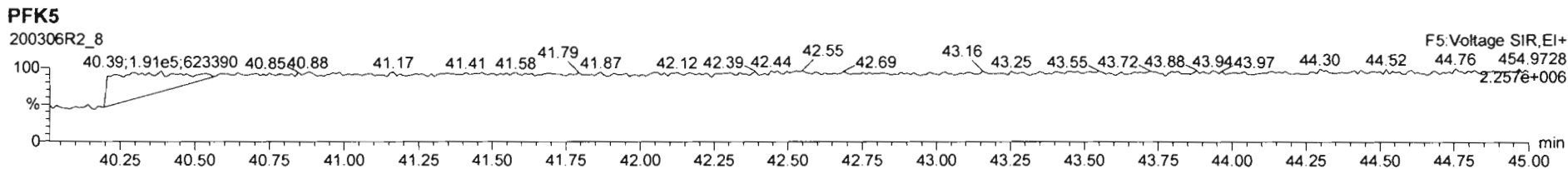
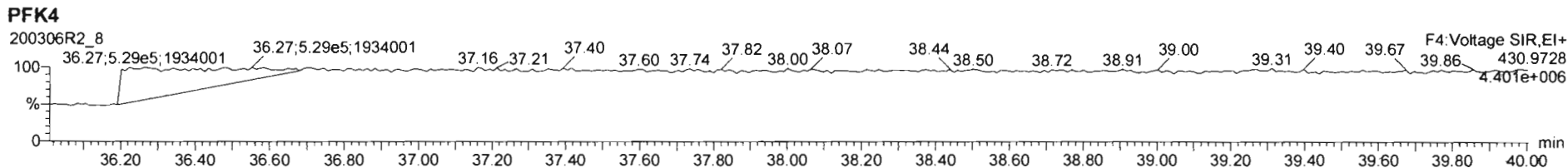
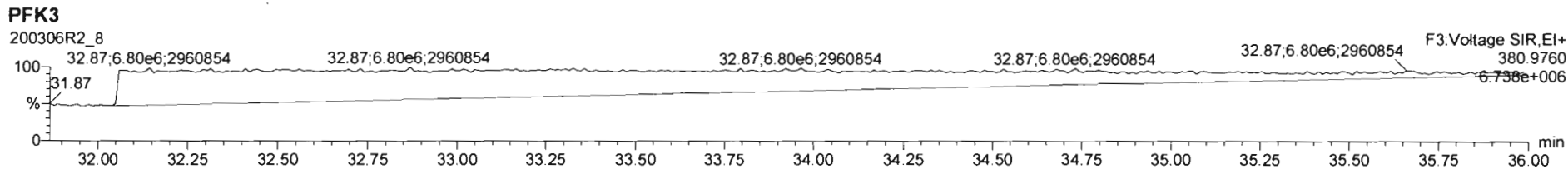
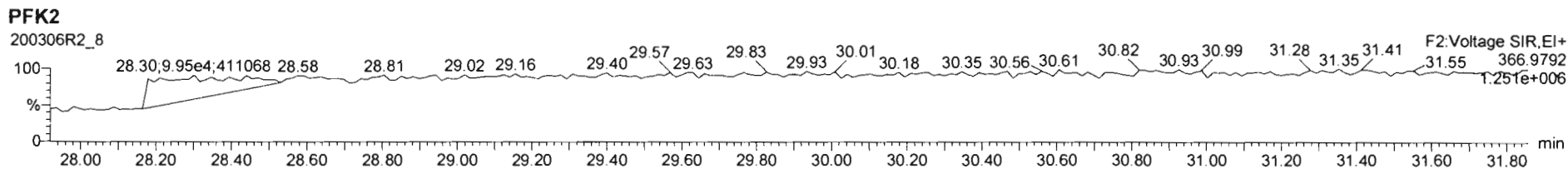
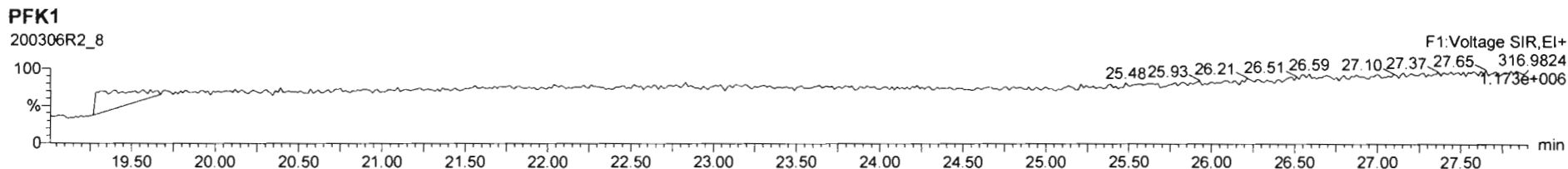
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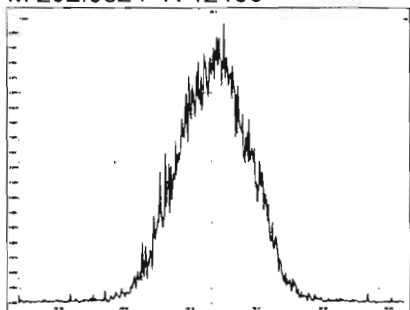
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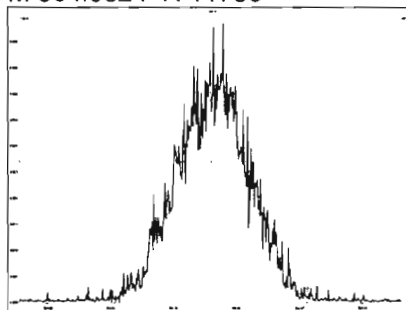


Printed: Saturday, March 07, 2020 02:06:12 Pacific Standard Time

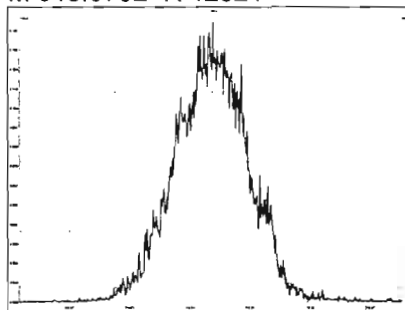
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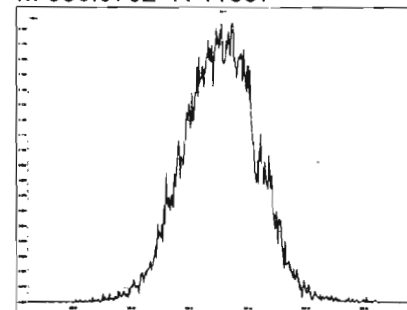
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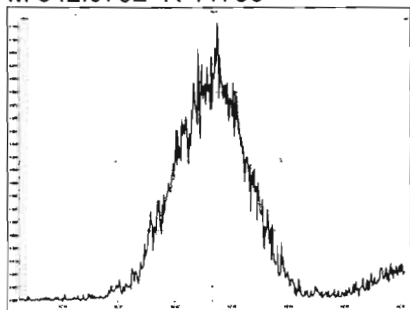
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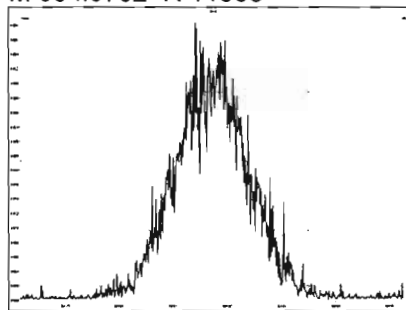
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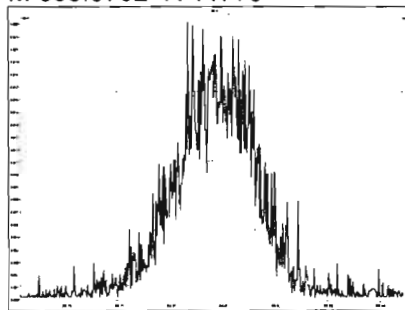
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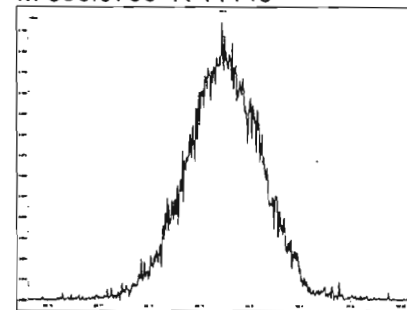
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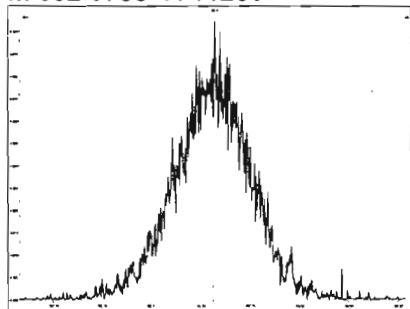
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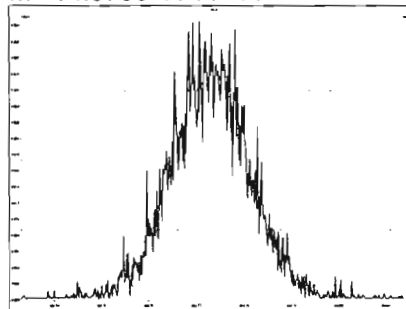
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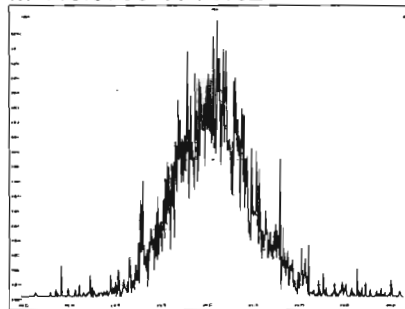
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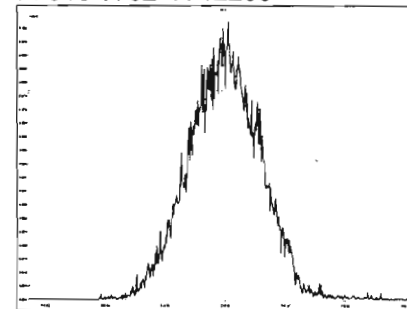
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M 416.9760 R 12132

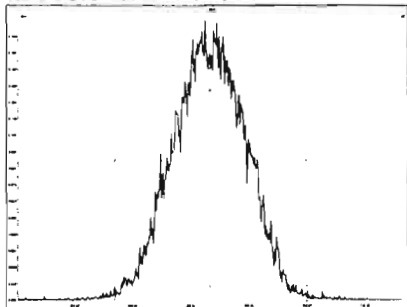


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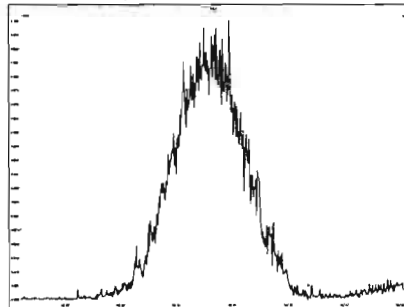


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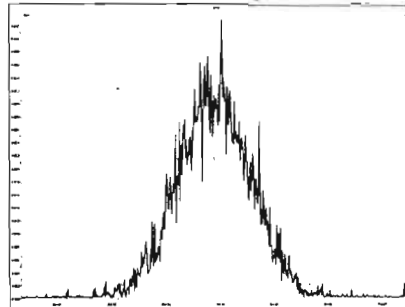
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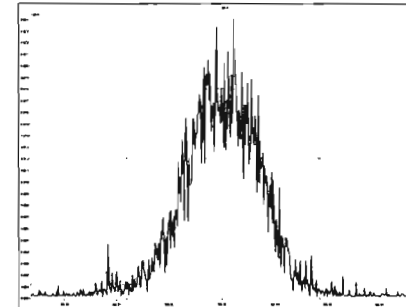
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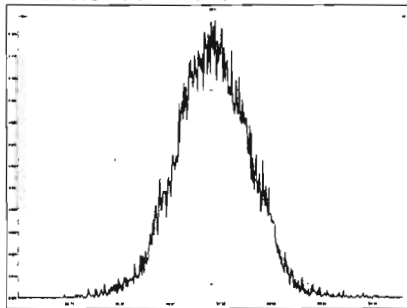
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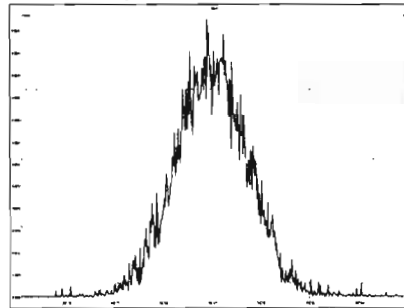
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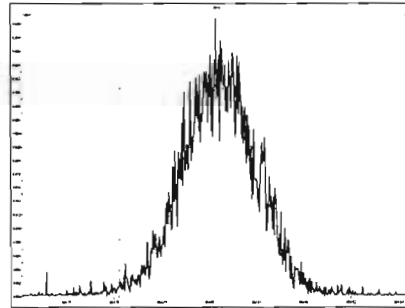
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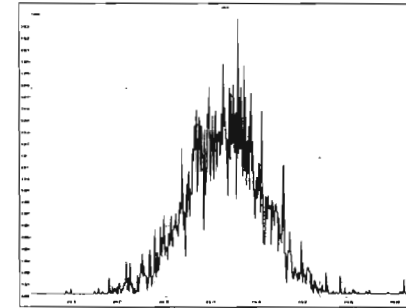
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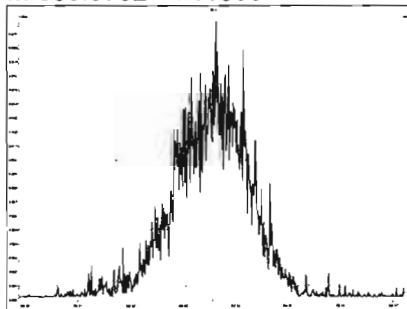
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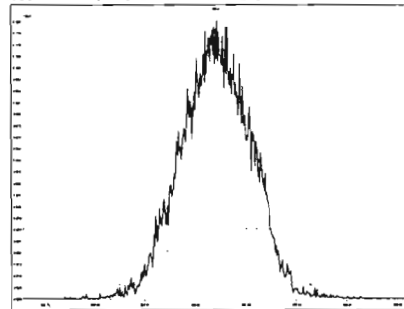
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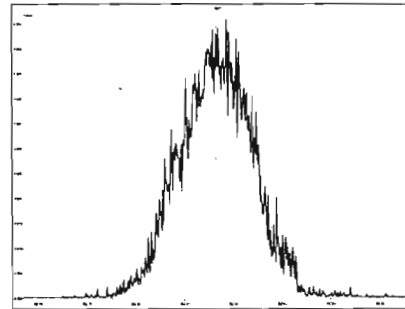
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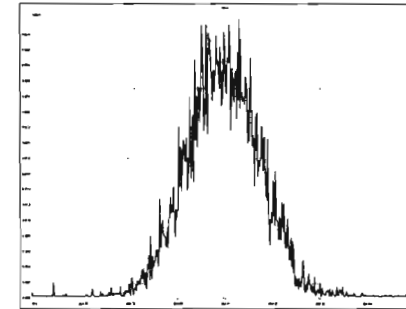
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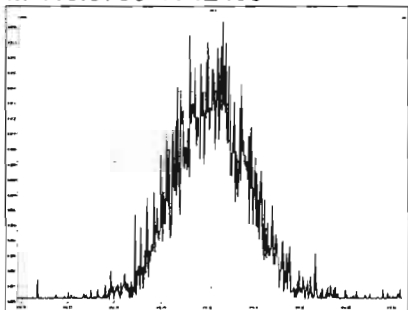


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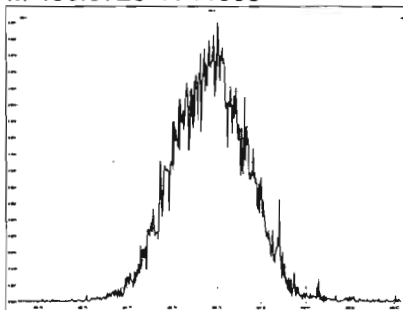


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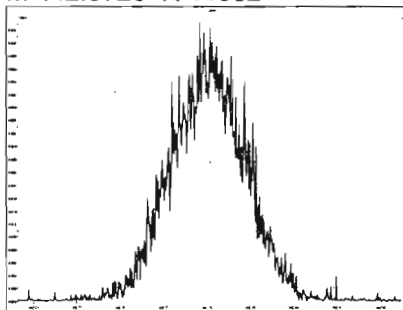
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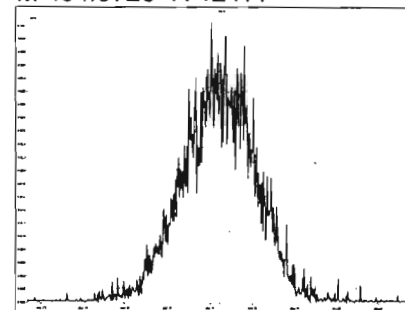
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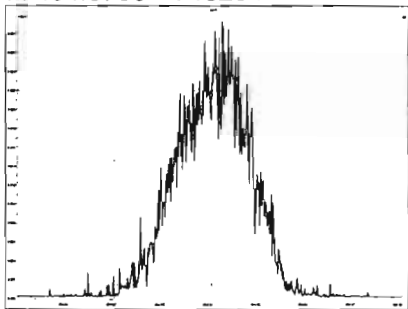
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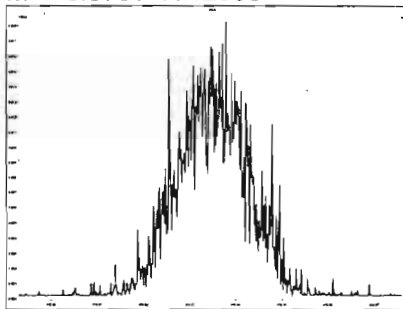
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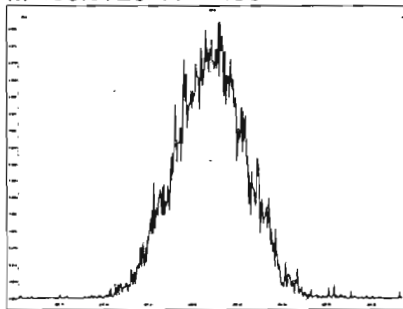
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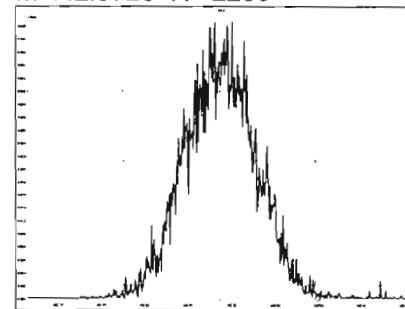
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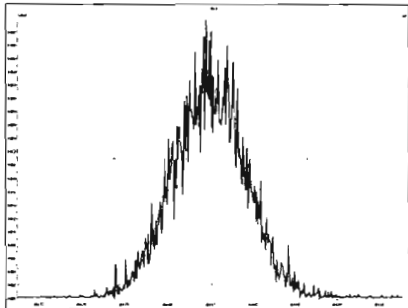
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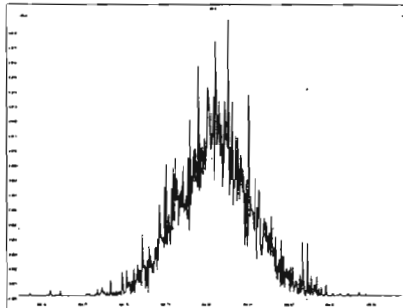
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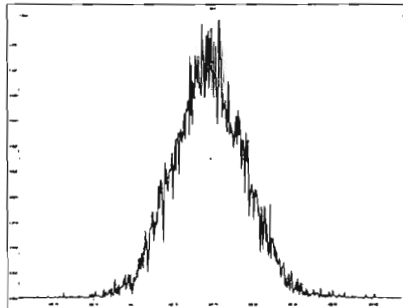
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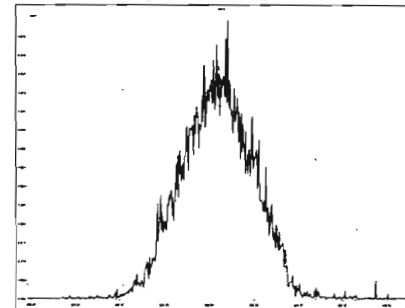
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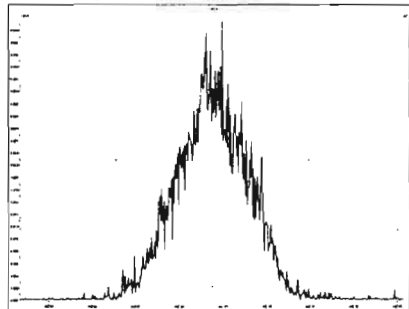
M 480.9696 R 12154



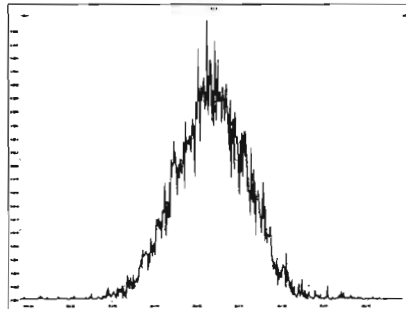
M 430.9728 R 12142



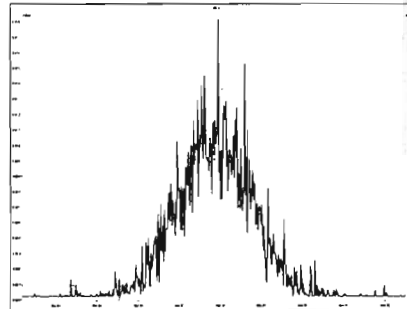
M 442.9728 R 12853



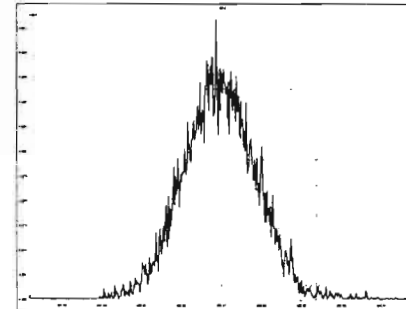
M 454.9728 R 12213



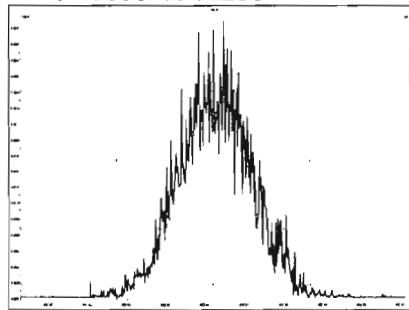
M 466.9728 R 12501



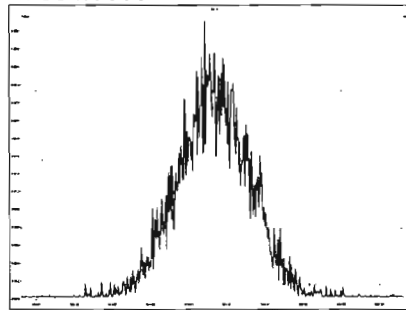
M 480.9696 R 12255



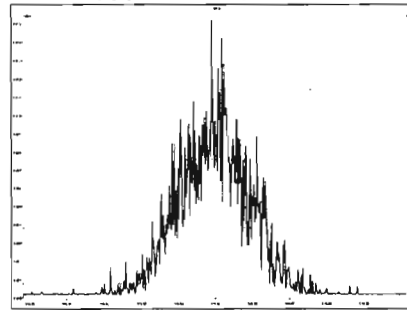
M 492.9696 R 12255



M 504.9696 R 12406



M 516.9697 R 12265



Dataset: U:\VG12.PRO\Results\200309R2\200309R2-CRV.qld

Last Altered: Tuesday, March 10, 2020 8:18:28 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:19:39 AM Pacific Daylight Time

GRB 03/10/2020

CT 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

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

Response Factor: 0.820787

RRF SD: 0.107593, Relative SD: 13.1085

Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	0.250	0.77	NO	16.58	1.001	4.20e3	1.63e6	0.314	25.4	1.03	MM
2	200309R2_3	0.500	0.73	NO	16.59	1.001	5.46e3	1.37e6	0.487	-2.7	0.799	MM
3	200309R2_4	2.00	0.74	NO	16.56	1.001	2.05e4	1.37e6	1.81	-9.3	0.745	bb
4	200309R2_5	10.0	0.75	NO	16.56	1.001	1.02e5	1.39e6	8.95	-10.5	0.735	bb
5	200309R2_6	40.0	0.74	NO	16.56	1.001	5.13e5	1.61e6	38.8	-3.0	0.796	bb
6	200309R2_7	300	0.76	NO	16.56	1.001	4.09e6	1.66e6	300	-0.0	0.821	bb

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

Response Factor: 1.10088

RRF SD: 0.097324, Relative SD: 8.84057

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.78	NO	16.56	1.147	1.63e6	1.30e6	114	13.7	1.25	bb
2	200309R2_3	100	0.77	NO	16.56	1.147	1.37e6	1.38e6	89.9	-10.1	0.990	bb
3	200309R2_4	100	0.77	NO	16.54	1.146	1.37e6	1.38e6	90.5	-9.5	0.996	bb
4	200309R2_5	100	0.77	NO	16.54	1.147	1.39e6	1.25e6	102	1.6	1.12	bb
5	200309R2_6	100	0.77	NO	16.54	1.146	1.61e6	1.43e6	102	2.2	1.13	bb
6	200309R2_7	100	0.77	NO	16.54	1.146	1.66e6	1.48e6	102	2.0	1.12	bb

Dataset: U:\VG12.PRO\Results\200309R2\200309R2-CRV.qld

Last Altered: Tuesday, March 10, 2020 8:18:28 AM Pacific Daylight Time
 Printed: Tuesday, March 10, 2020 8:19:39 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.79	NO	14.45	1.000	1.30e6	1.30e6	100	0.0	1.00	bb
2	200309R2_3	100	0.79	NO	14.45	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
3	200309R2_4	100	0.79	NO	14.44	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200309R2_5	100	0.78	NO	14.42	1.000	1.25e6	1.25e6	100	0.0	1.00	bb
5	200309R2_6	100	0.79	NO	14.44	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
6	200309R2_7	100	0.78	NO	14.44	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 11994.1

RRF SD: 1070.13, Relative SD: 8.92214

Response type: External Std, Area

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.77	NO	15.08	0.000	1.28e6		107	6.6	12800	bd
2	200309R2_3	100	0.78	NO	15.06	0.000	1.08e6		90.4	-9.6	10800	bd
3	200309R2_4	100	0.77	NO	15.05	0.000	1.11e6		92.2	-7.8	11100	bd
4	200309R2_5	100	0.75	NO	15.05	0.000	1.12e6		93.6	-6.4	11200	bd
5	200309R2_6	100	0.77	NO	15.05	0.000	1.28e6		107	6.5	12800	bd
6	200309R2_7	100	0.78	NO	15.05	0.000	1.33e6		111	10.8	13300	bd

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 8:04:02 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:04:32 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 07:53:03

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

	Name	ID	Acq.Date	Acq.Time
1	200309R2_1	CP200309R2_1 225 CPSM	09-Mar-20	17:55:29
2	200309R2_2	ST200309R2_1 1613 CS0 19L2302	09-Mar-20	18:25:43
3	200309R2_3	ST200309R2_2 1613 CS1 19L2303	09-Mar-20	18:56:05
4	200309R2_4	ST200309R2_3 1613 CS2 19L2304	09-Mar-20	19:26:33
5	200309R2_5	ST200309R2_4 1613 CS3 19L2305	09-Mar-20	19:57:01
6	200309R2_6	ST200309R2_5 1613 CS4 19L2306	09-Mar-20	20:27:25
7	200309R2_7	ST200309R2_6 1613 CS5 19L2307	09-Mar-20	20:57:48
8	200309R2_8	SOLVENT BLANK	09-Mar-20	21:28:11
9	200309R2_9	SS200309R2_1 1613 SSS 19L2308	09-Mar-20	21:58:38
10	200309R2_10	SOLVENT BLANK	09-Mar-20	22:29:05
11	200309R2_11	1904012-10RE2 PX-S23-SB48-0203 10.92	09-Mar-20	22:59:38
12	200309R2_12	2000301-01RE2 PDI-077SC-A-02-03-191014 ...	09-Mar-20	23:29:57
13	200309R2_13	B0B0291-DUP1 Duplicate 18.51	10-Mar-20	00:00:21
14	200309R2_14	2000407-01RE1 PDI-084SC-A-05-06-191002 ...	10-Mar-20	00:30:51
15	200309R2_15	2000407-02RE1 PDI-084SC-A-06-07-191002 ...	10-Mar-20	01:01:18
16	200309R2_16	2000407-03RE1 PDI-084SC-A-07-08-191002 ...	10-Mar-20	01:31:45
17	200309R2_17	2000407-04RE1 PDI-084SC-A-08-09-191002 ...	10-Mar-20	02:02:13
18	200309R2_18	2000407-05RE1 PDI-084SC-A-09-10-191002 ...	10-Mar-20	02:32:40
19	200309R2_19	2000407-06RE1 PDI-084SC-A-10-11-191002 ...	10-Mar-20	03:03:07
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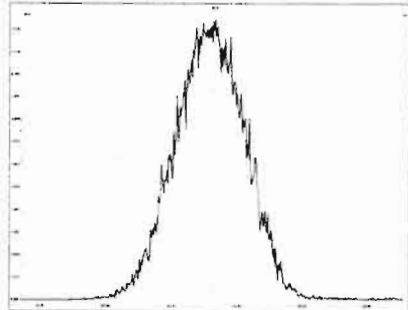
Experiment Calibration Report

MassLynx 4.1 SCN815

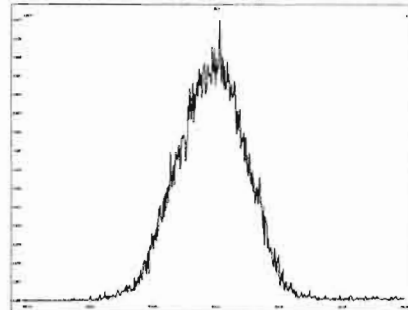
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Printed: Monday, March 09, 2020 17:53:48 Pacific Daylight Time

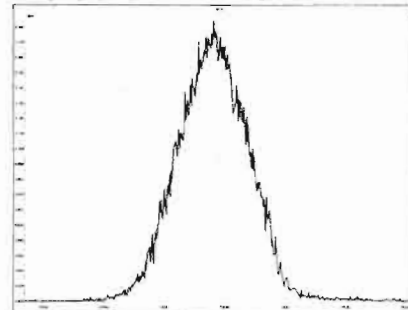
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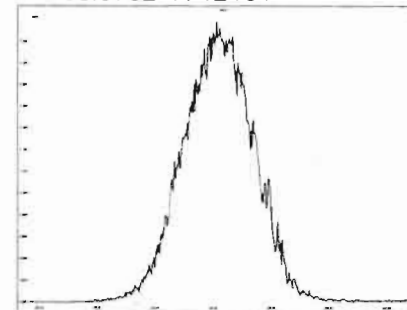
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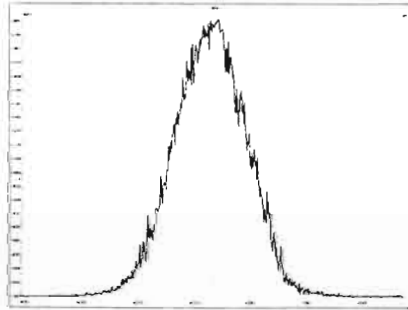
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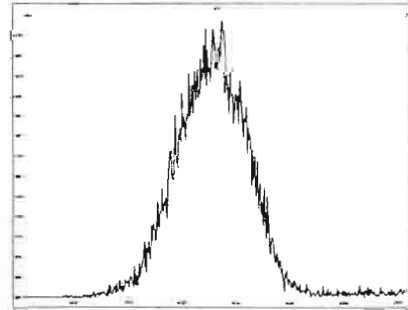
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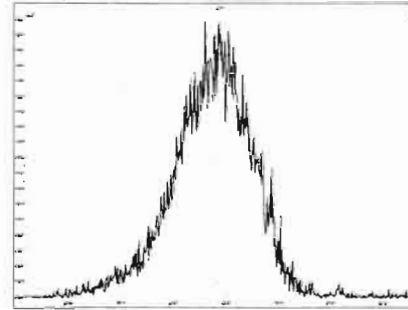
M 342.9792 R 11960



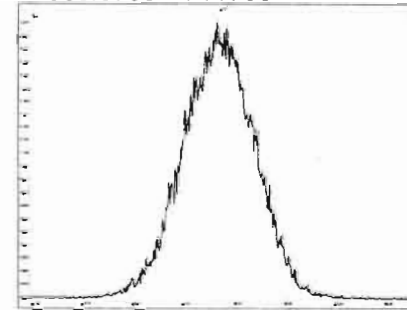
M 354.9792 R 13154



M 366.9792 R 10504



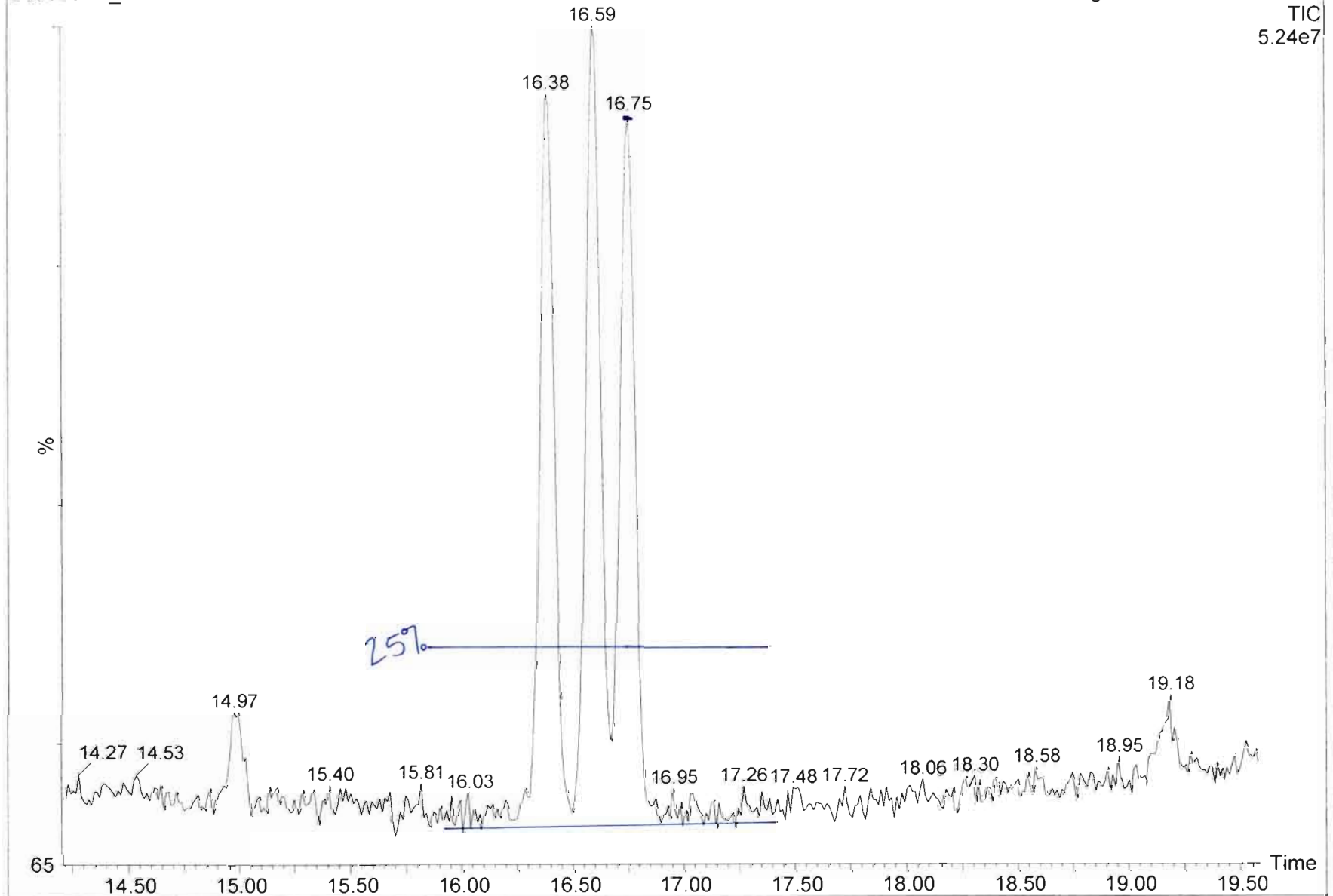
M 380.9760 R 11795



GRB 03/10/2020

225 CPSM
200309R2_1

Voltage SIR 12 Channels EI+
TIC
5.24e7



Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

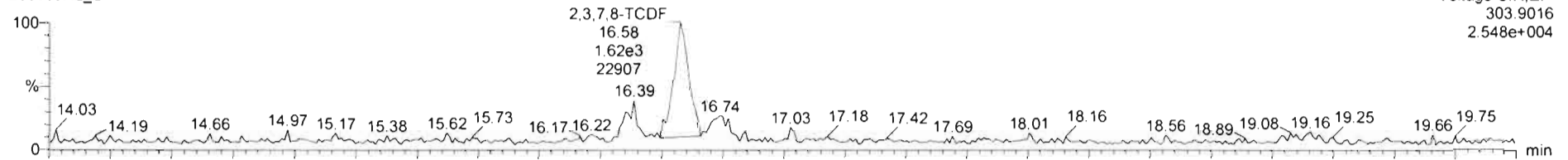
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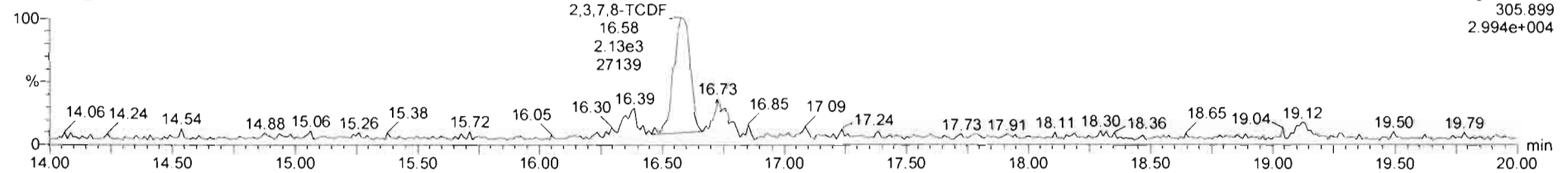
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2,3,7,8-TCDF

200309R2_2

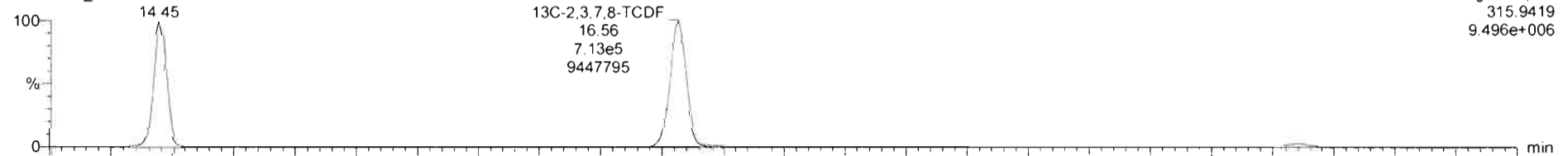


200309R2_2

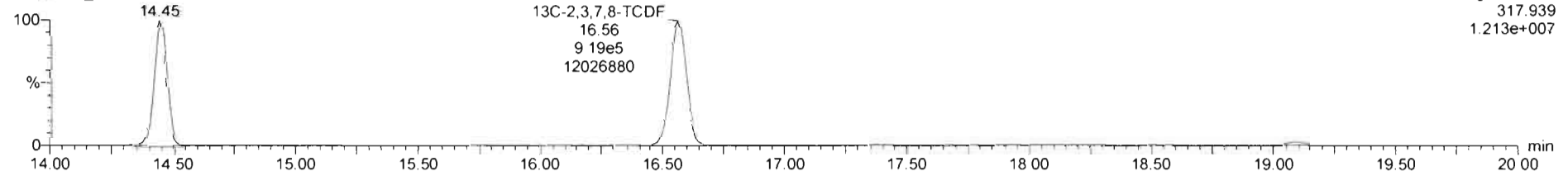


13C-2,3,7,8-TCDF

200309R2_2



200309R2_2

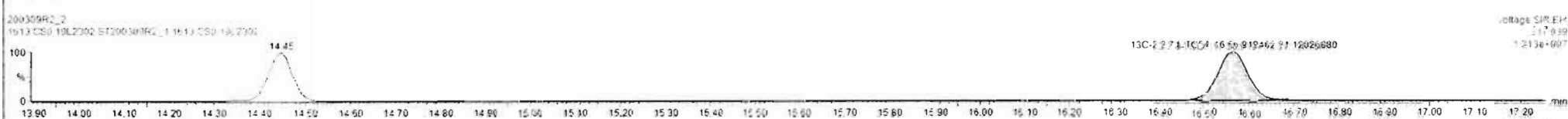
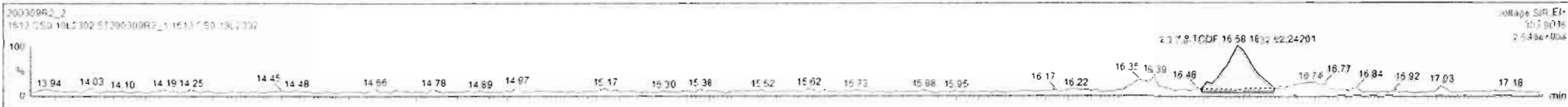


TargetLynx - untitled * - Chromatogram

File Edit View Display Processing Window Help

200309R2_2 - ST200309R2_1 1613 CS0 19L2302 - 1613 CS0 19L2302

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDF	16.58	0.774	NO	4.2011e3	1.6321e6	0.250	24.2	13.0	6.829	0.107
2	13C-2,3,7,8-TCDF	16.58	0.775	NO	1.6321e5	1.3038e6	100.000	12.7	2.84	1.10	0.0973
3	13C-1,2,3,4-TCDF	14.45	0.787	NO	1.3038e6	1.3038e6	100.000	6.0	0.000	1.00	0.000
4	13C-1,2,3,4-TCDD	15.08	0.790	NO	1.2780e6		100.000	6.6	8.92	12000	1070
5	PFK1						1.000				
6	DPE1						1.000				



Dataset: Untitled

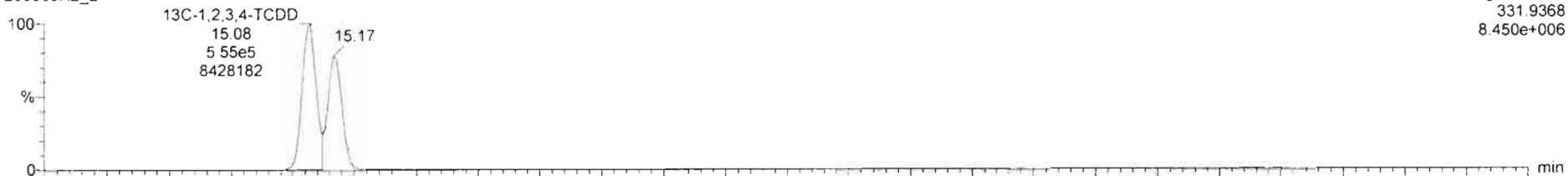
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

Name: 200309R2_2, Date: 09-Mar-2020, Time: 18:25:43, ID: ST200309R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

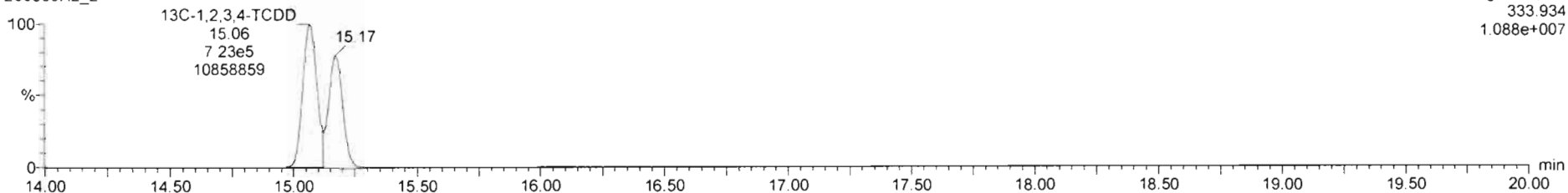
13C-1,2,3,4-TCDD

200309R2_2



Voltage SIR,EI+
331.9368
8.450e+006

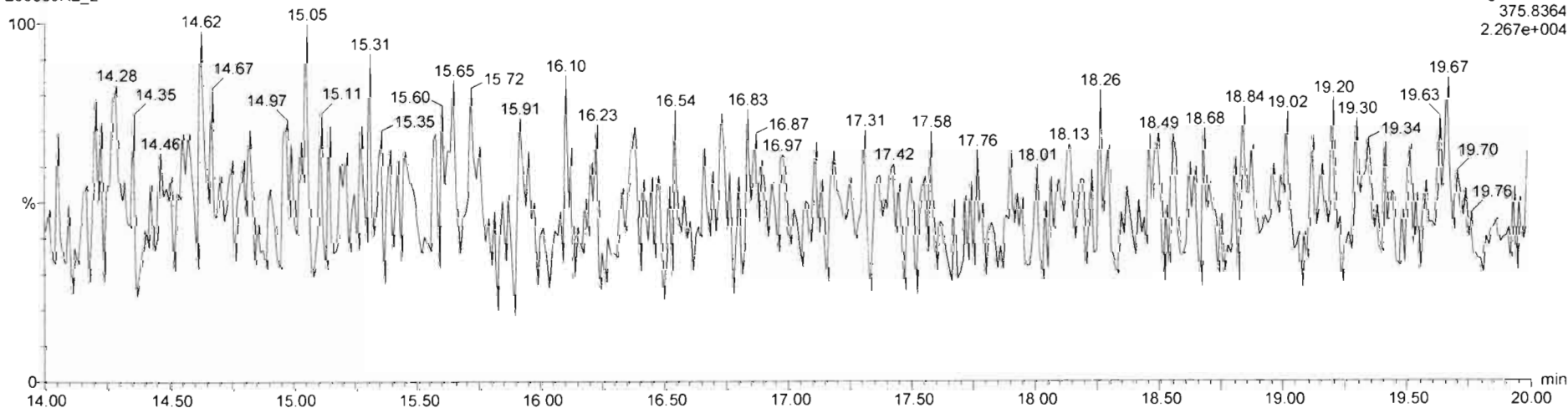
200309R2_2



Voltage SIR,EI+
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1.088e+007

DPE1

200309R2_2



Voltage SIR,EI+
375.8364
2.267e+004

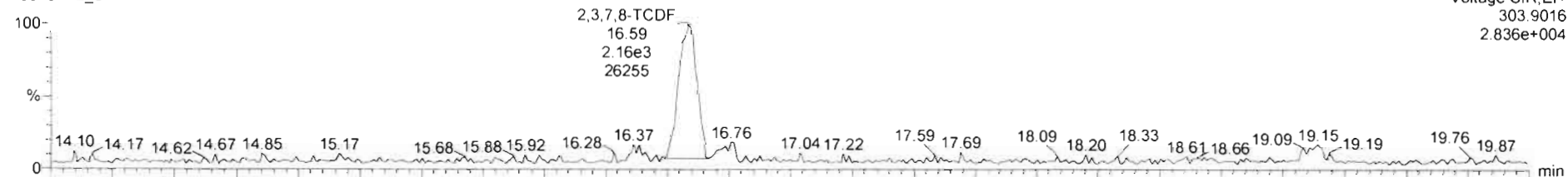
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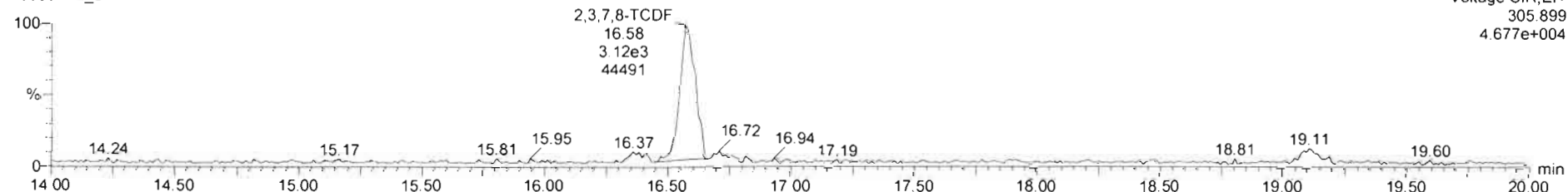
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2,3,7,8-TCDF

200309R2_3

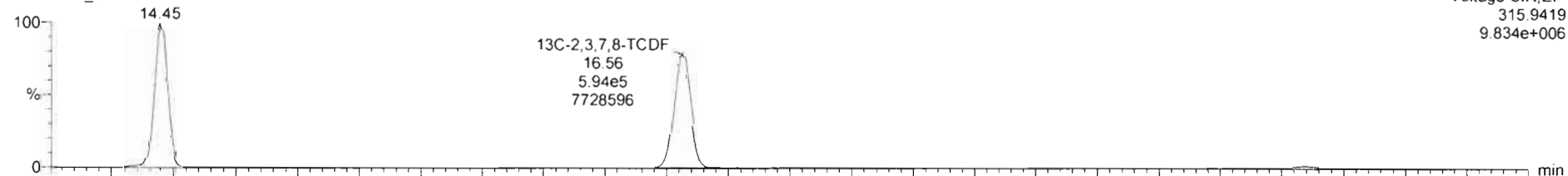


200309R2_3

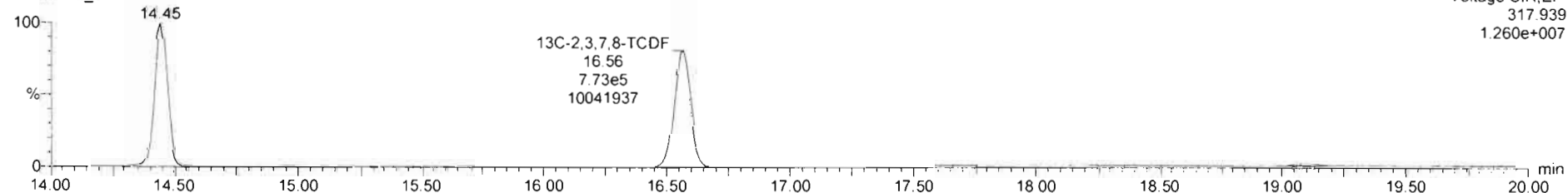


13C-2,3,7,8-TCDF

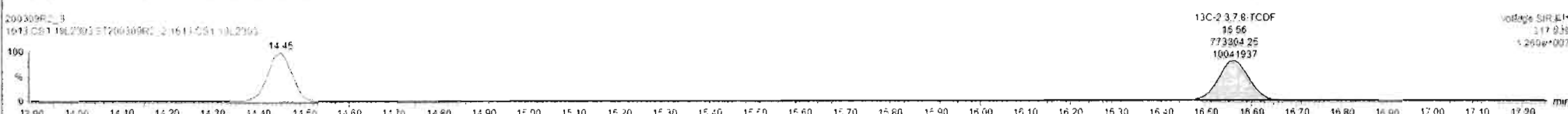
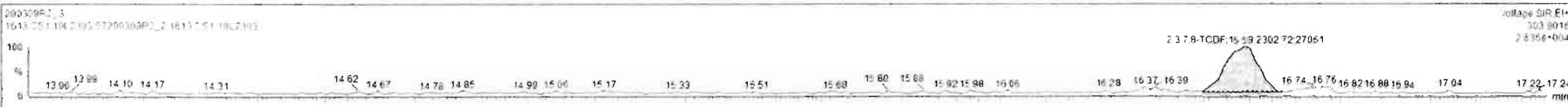
200309R2_3



200309R2_3



#	Name	RT	RA	Y/N	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDF	16.56	0.729	NO	5.4614e3	1.3676e6	0.500	-2.7	13.1	0.021	0.108
2	13C-2,3,7,8-TCDF	16.56	0.768	NO	1.3676e6	1.3812e6	100.000	-10.1	2.84	1.00	0.0973
3	13C-1,2,3,4-TCDF	14.45	0.781	NO	1.3812e6	1.3812e6	100.000	0.0	0.000	1.00	0.000
4	13C-1,2,3,4-TCDD	15.96	0.777	NO	1.0641e6		100.000	-9.6	8.92	12000	1070
5	DPK1						1.000				
6	DPS1						1.000				



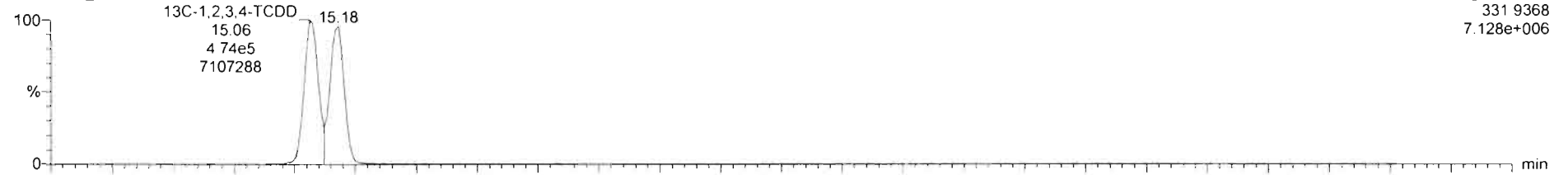
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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

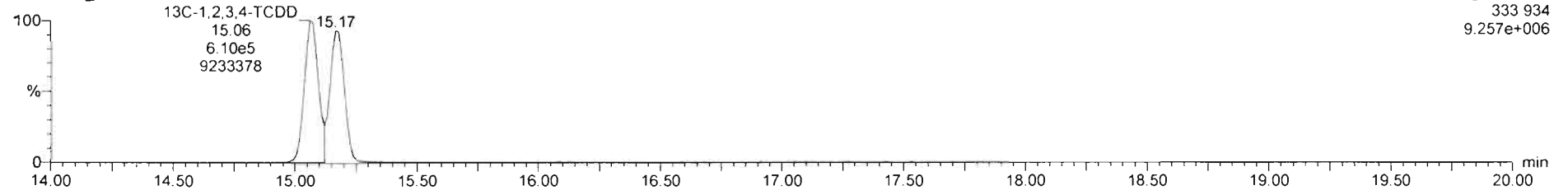
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13C-1,2,3,4-TCDD

200309R2_3

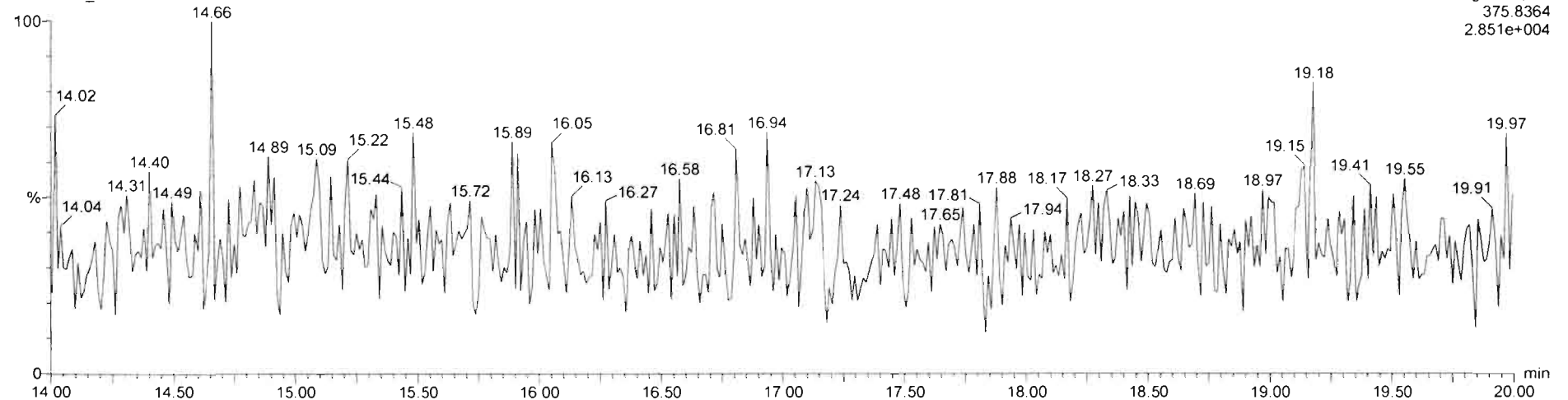


200309R2_3



DPE1

200309R2_3



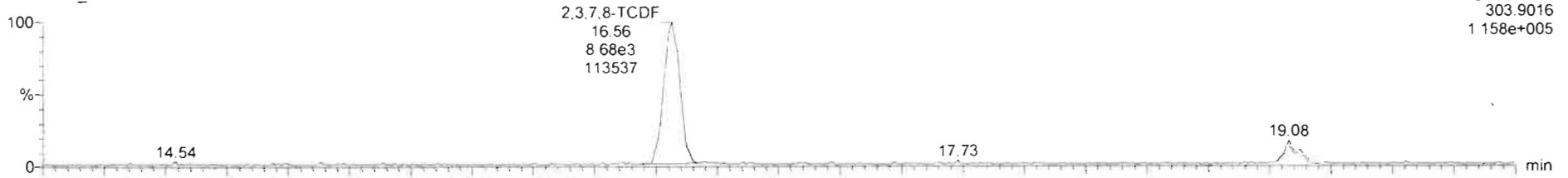
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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

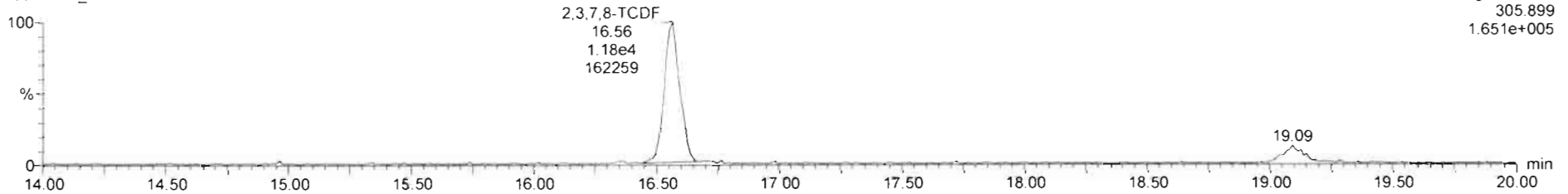
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2,3,7,8-TCDF

200309R2_4

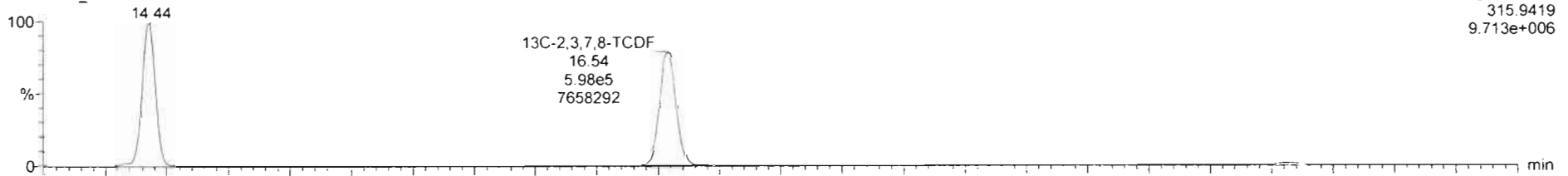


200309R2_4

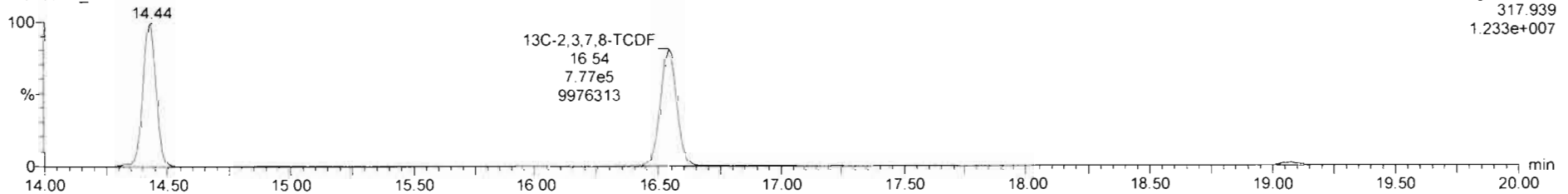


13C-2,3,7,8-TCDF

200309R2_4



200309R2_4



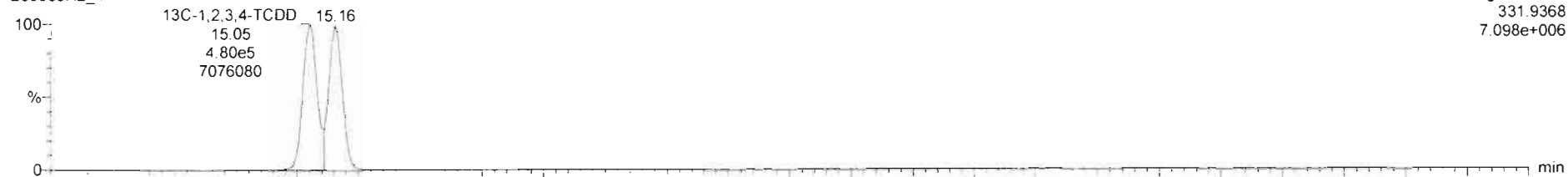
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Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

Name: 200309R2_4, Date: 09-Mar-2020, Time: 19:26:33, ID: ST200309R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

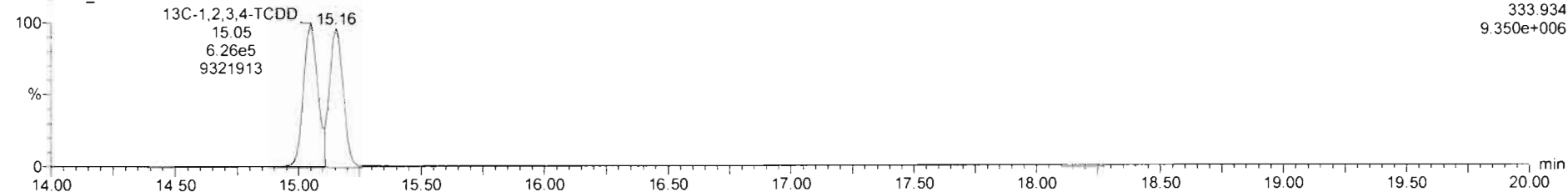
13C-1,2,3,4-TCDD

200309R2_4



Voltage SIR,EI+
331.9368
7.098e+006

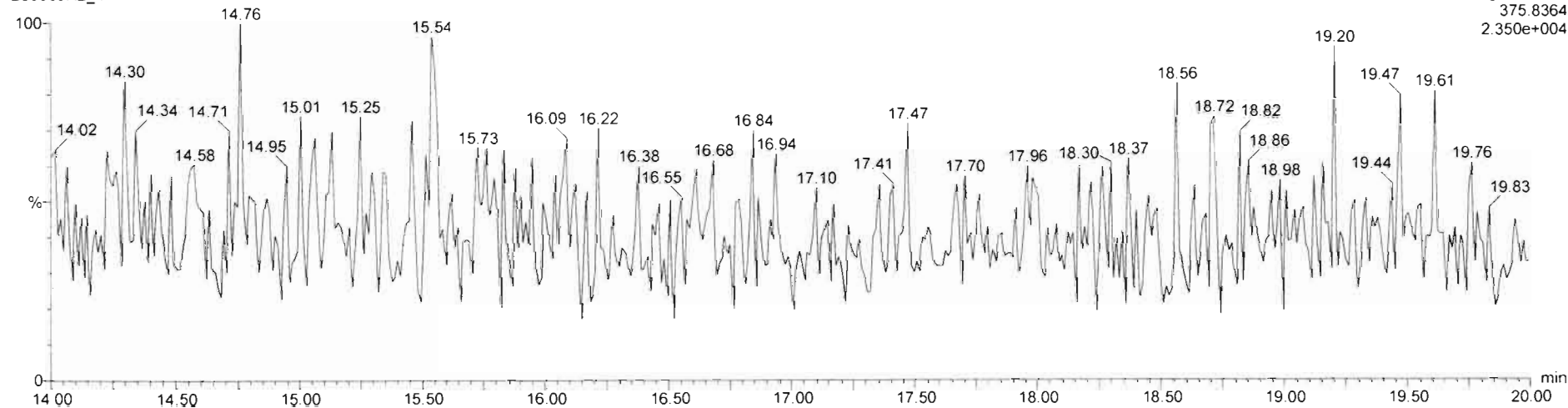
200309R2_4



Voltage SIR,EI+
333.934
9.350e+006

DPE1

200309R2_4



Voltage SIR,EI+
375.8364
2.350e+004

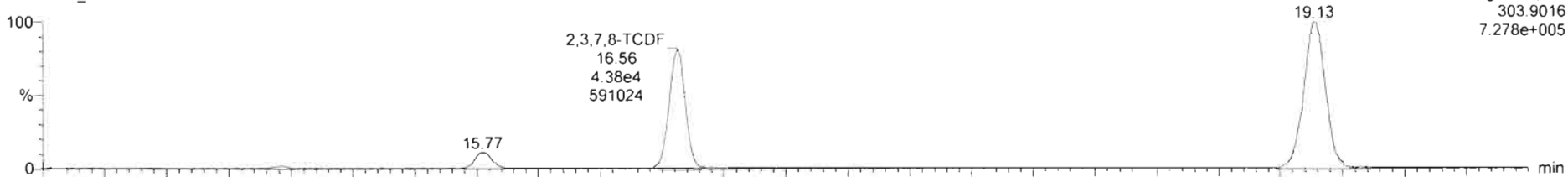
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Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

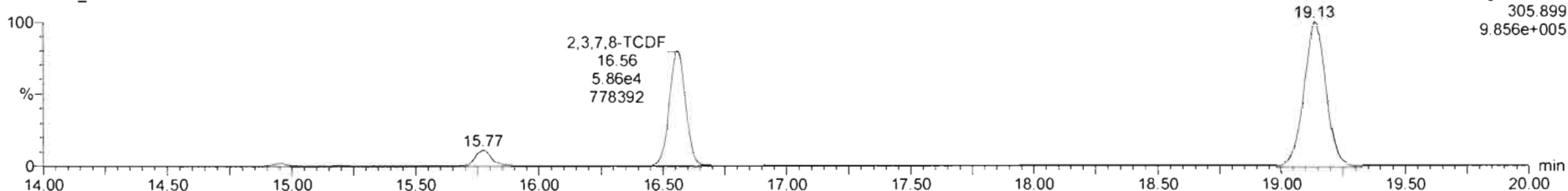
Name: 200309R2_5, Date: 09-Mar-2020, Time: 19:57:01, ID: ST200309R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200309R2_5

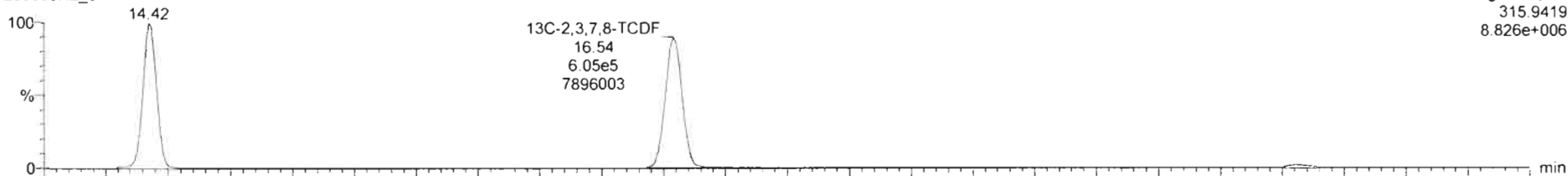


200309R2_5

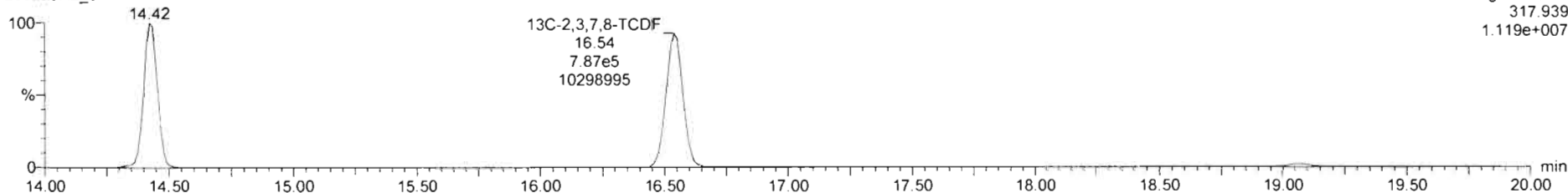


13C-2,3,7,8-TCDF

200309R2_5



200309R2_5



Dataset: Untitled

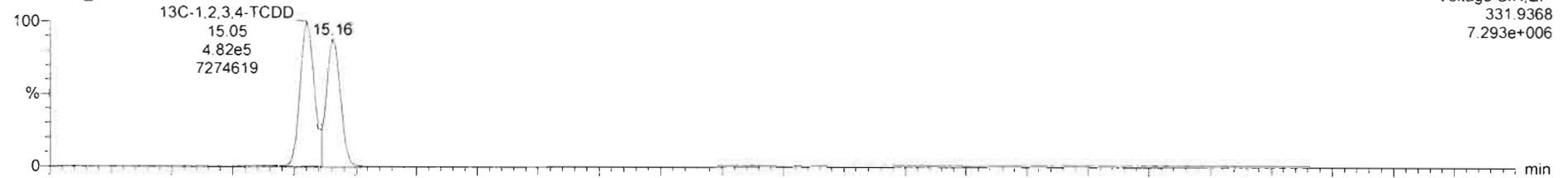
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

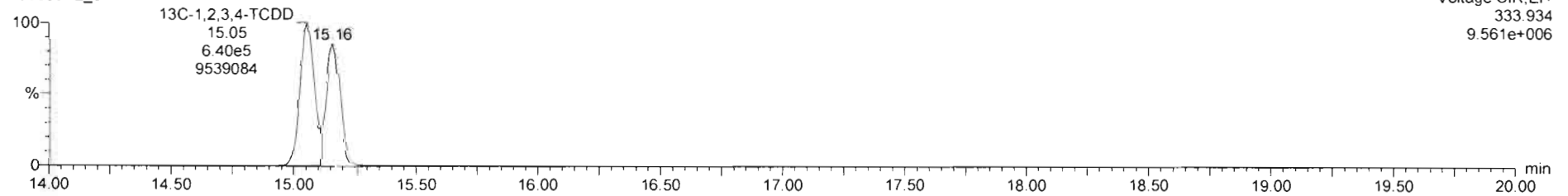
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13C-1,2,3,4-TCDD

200309R2_5

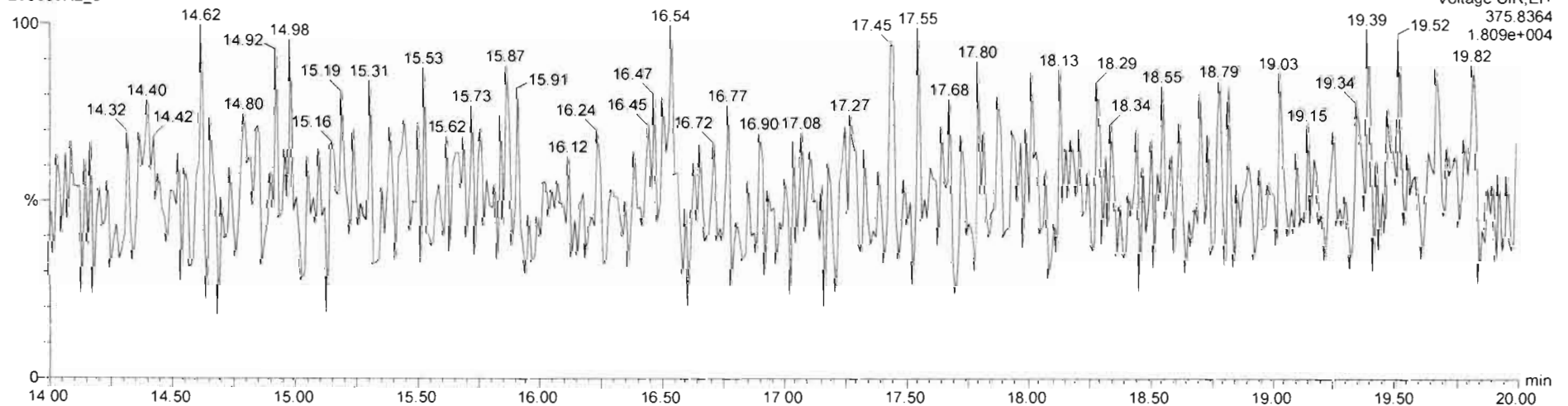


200309R2_5



DPE1

200309R2_5



Dataset: Untitled

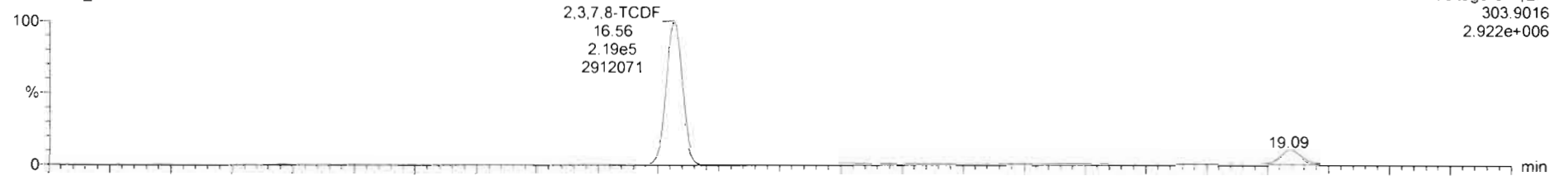
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

Name: 200309R2_6, Date: 09-Mar-2020, Time: 20:27:25, ID: ST200309R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

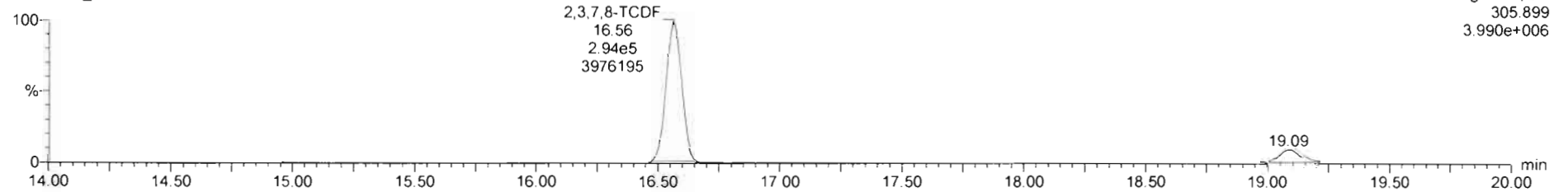
2,3,7,8-TCDF

200309R2_6



Voltage SIR,EI+
303.9016
2.922e+006

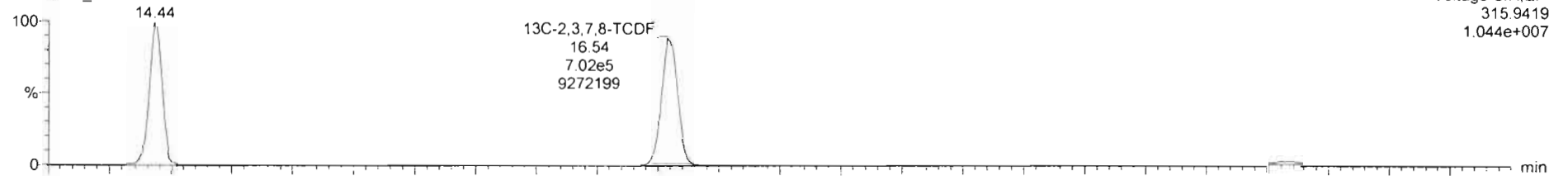
200309R2_6



Voltage SIR,EI+
305.899
3.990e+006

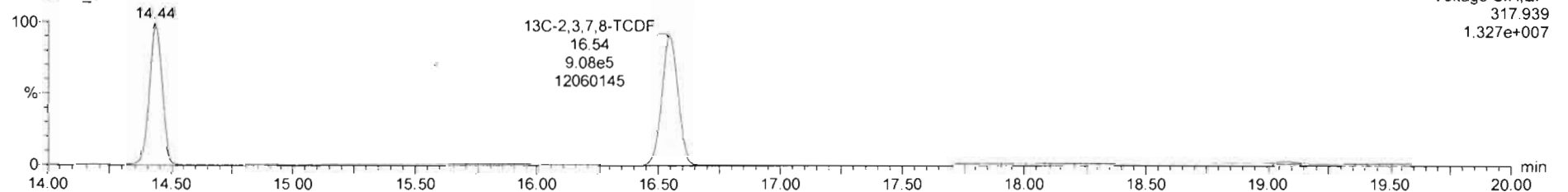
13C-2,3,7,8-TCDF

200309R2_6



Voltage SIR,EI+
315.9419
1.044e+007

200309R2_6



Voltage SIR,EI+
317.939
1.327e+007

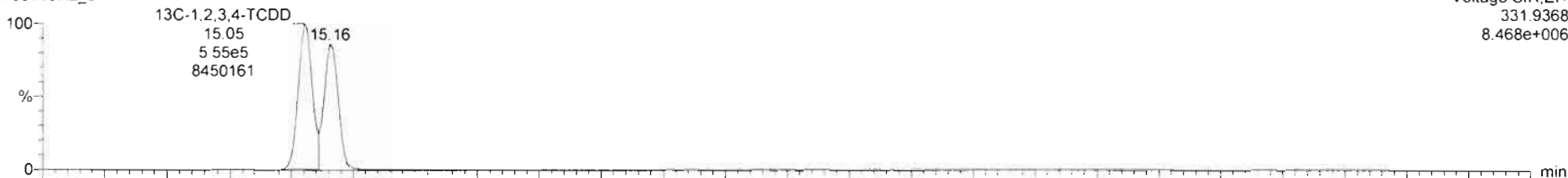
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

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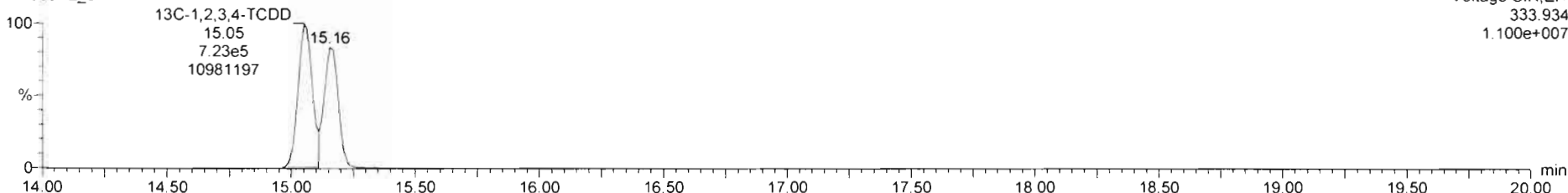
13C-1,2,3,4-TCDD

200309R2_6



Voltage SIR_EI+
331.9368
8.468e+006

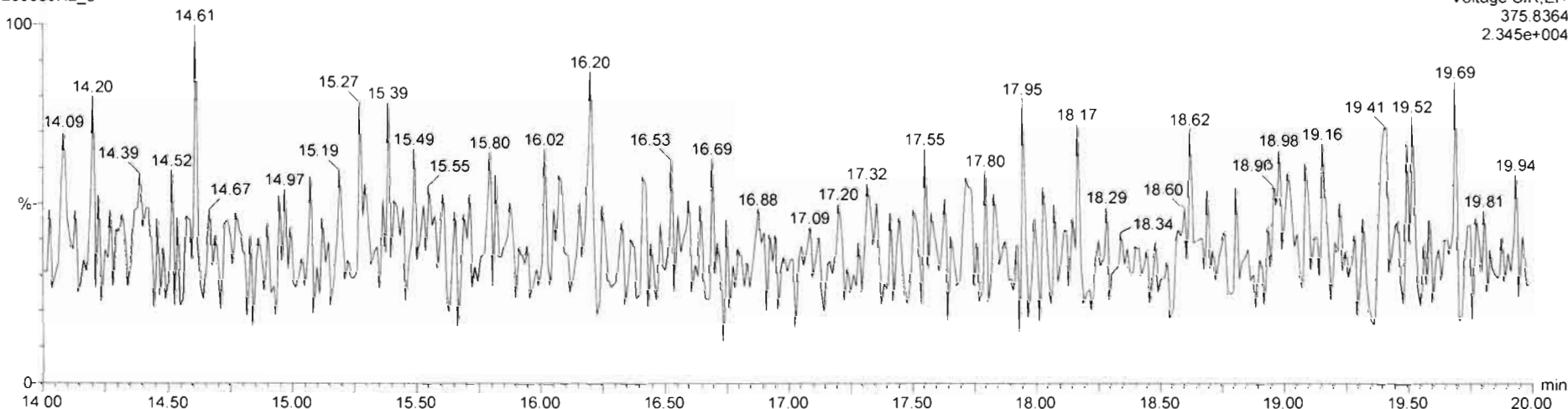
200309R2_6



Voltage SIR_EI+
333.934
1.100e+007

DPE1

200309R2_6



Voltage SIR_EI+
375.8364
2.345e+004

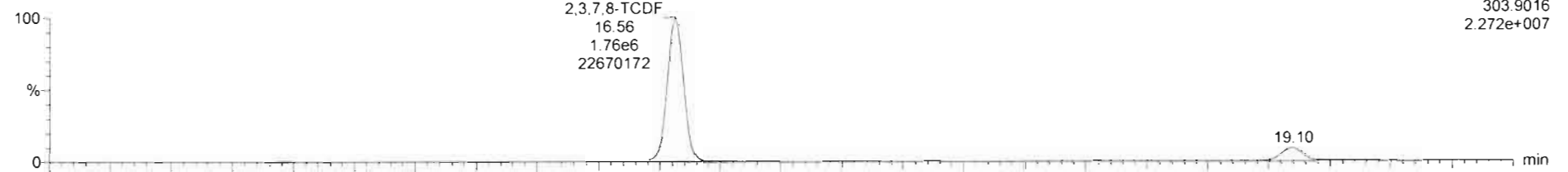
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

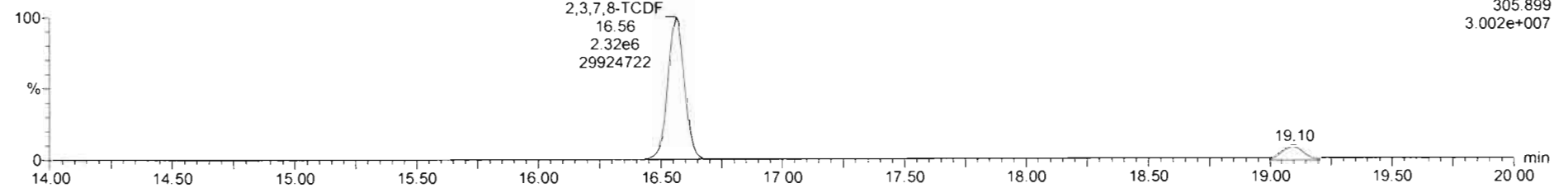
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2,3,7,8-TCDF

200309R2_7

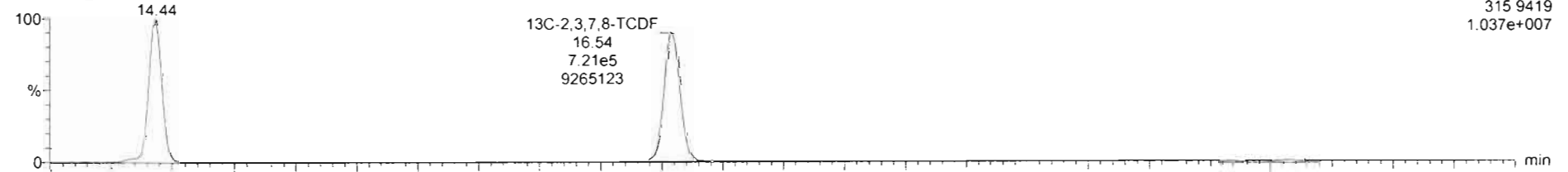


200309R2_7

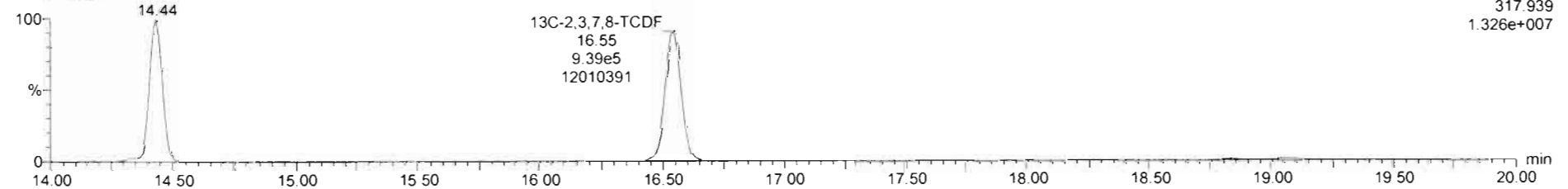


13C-2,3,7,8-TCDF

200309R2_7



200309R2_7



Dataset: Untitled

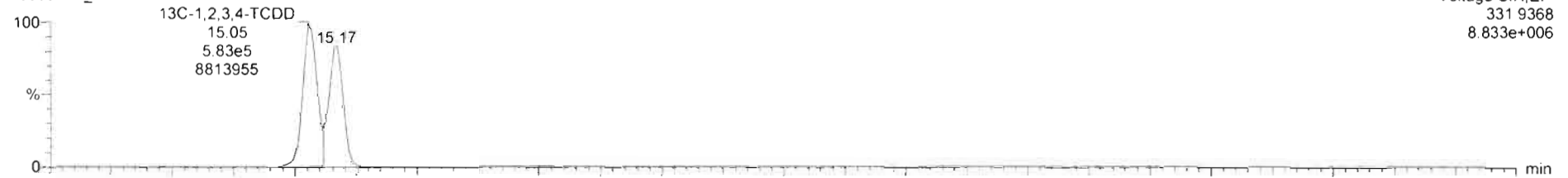
Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

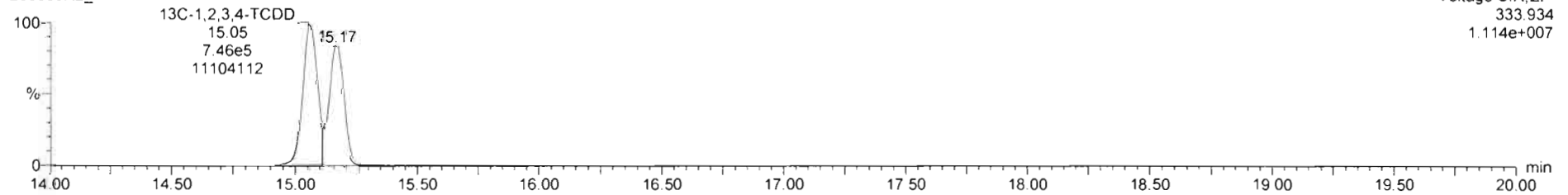
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13C-1,2,3,4-TCDD

200309R2_7

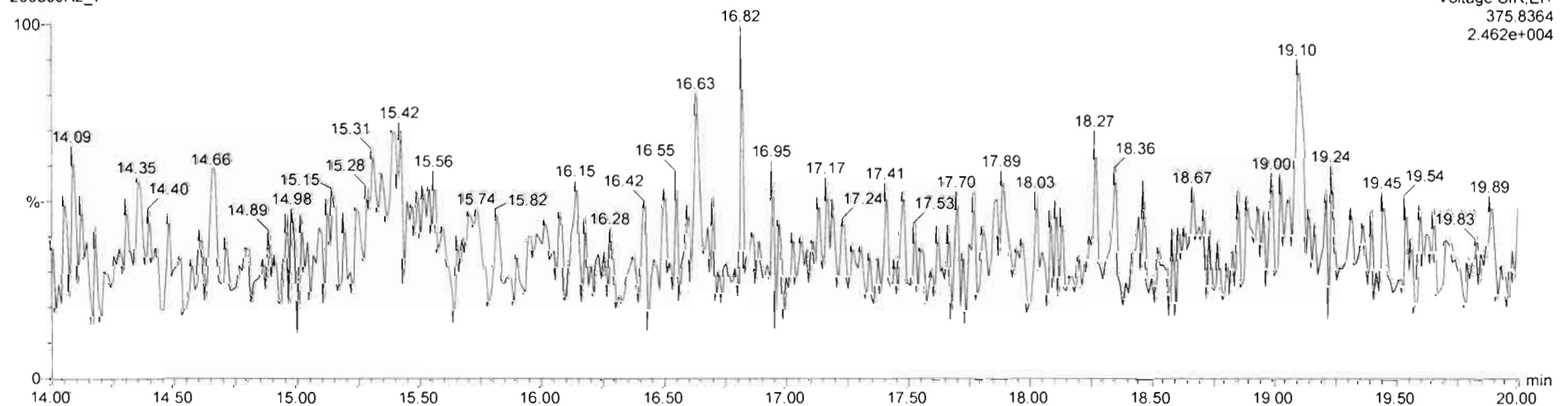


200309R2_7



DPE1

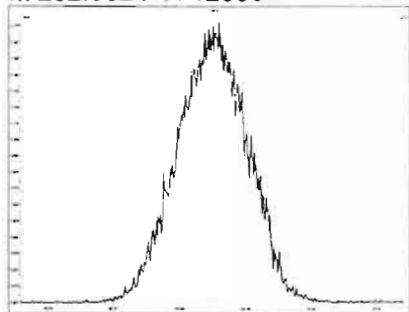
200309R2_7



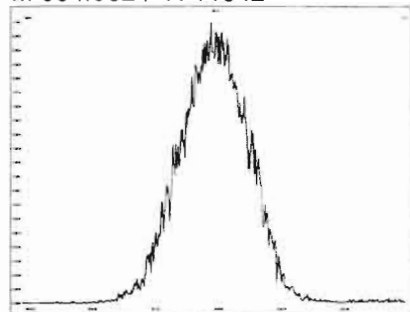
File: Experiment: tcdf_db225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 10, 2020 07:42:24 Pacific Daylight Time

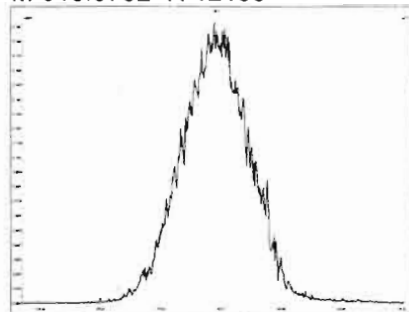
M 292.9824 R 12559



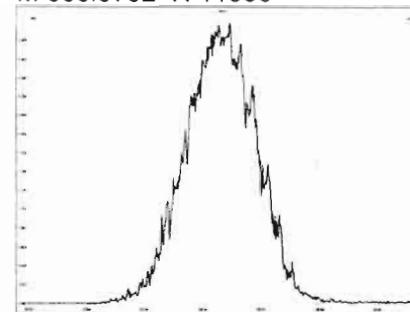
M 304.9824 R 11842



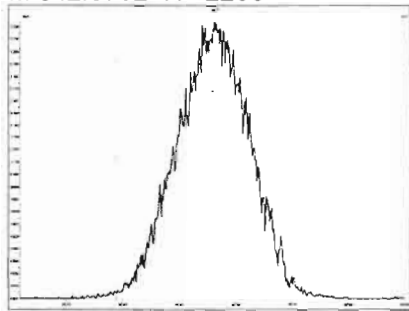
M 318.9792 R 12193



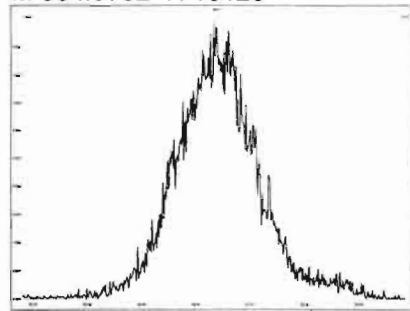
M 330.9792 R 11963



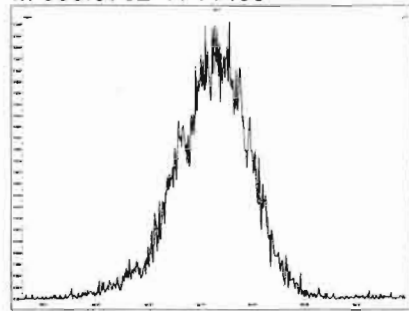
M 342.9792 R 12200



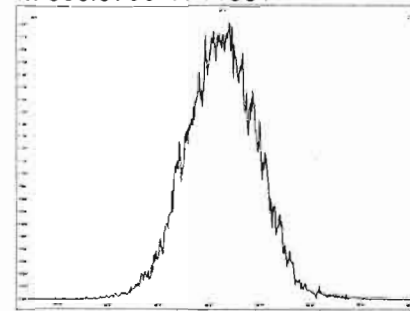
M 354.9792 R 10120



M 366.9792 R 11468



M 380.9760 R 11681



Dataset: U:\VG12.PRO\Results\200309R2\200309R2-9.qld

Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:25:09 AM Pacific Daylight Time

GRB 03/10/2020

C1 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.09e5	0.73	NO	0.821	1.000	16.56	10.163	102	0.0715
2	2 13C-2,3,7,8-TCDF	1.30e6	0.77	NO	1.10	1.000	16.54	93.316	93.3	0.191
3	3 13C-1,2,3,4-TCDF	1.27e6	0.79	NO	1.00	1.000	14.44	100.00	100	0.210

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:22:54 AM Pacific Daylight Time

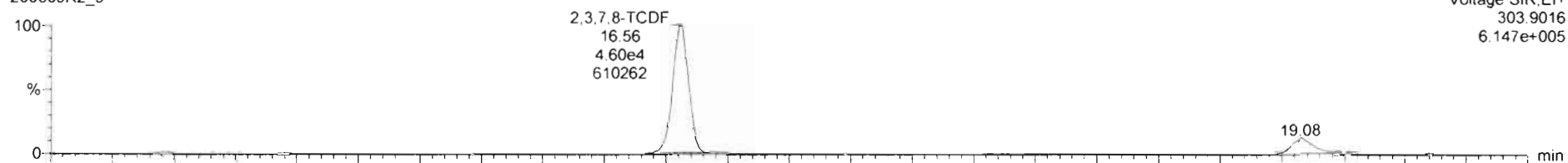
Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

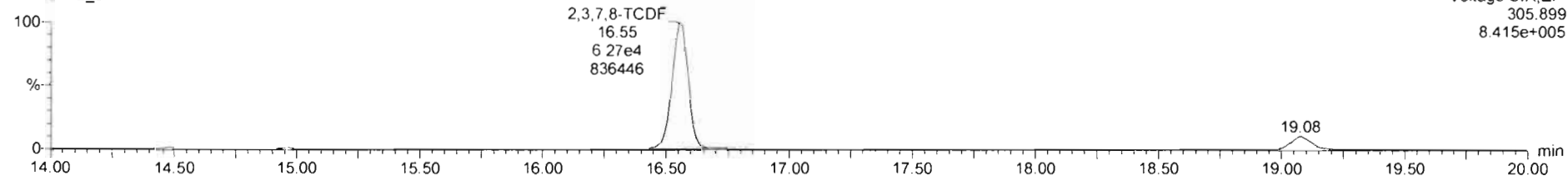
2,3,7,8-TCDF

200309R2_9



Voltage SIR,EI+
303.9016
6.147e+005

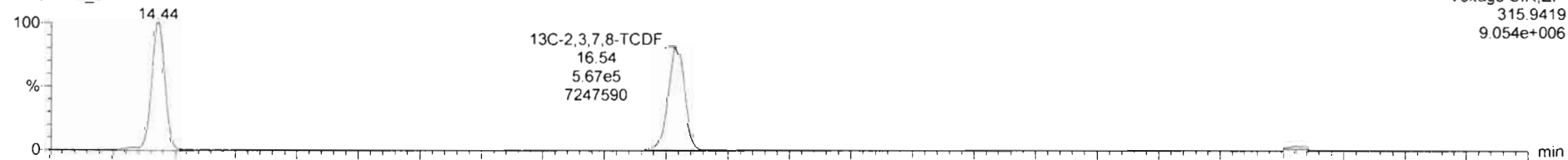
200309R2_9



Voltage SIR,EI+
305.899
8.415e+005

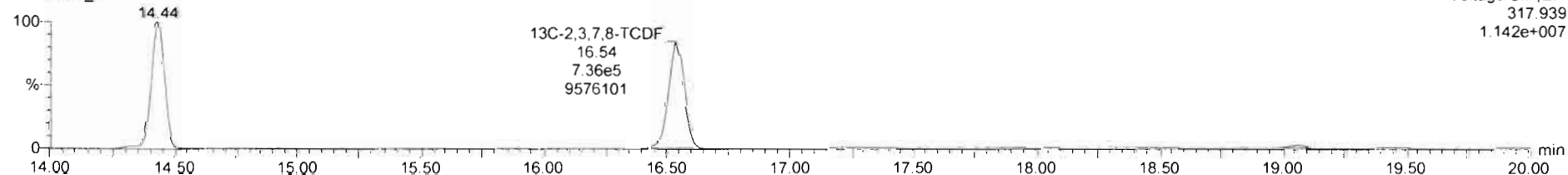
13C-2,3,7,8-TCDF

200309R2_9



Voltage SIR,EI+
315.9419
9.054e+006

200309R2_9



Voltage SIR,EI+
317.939
1.142e+007

Dataset: Untitled

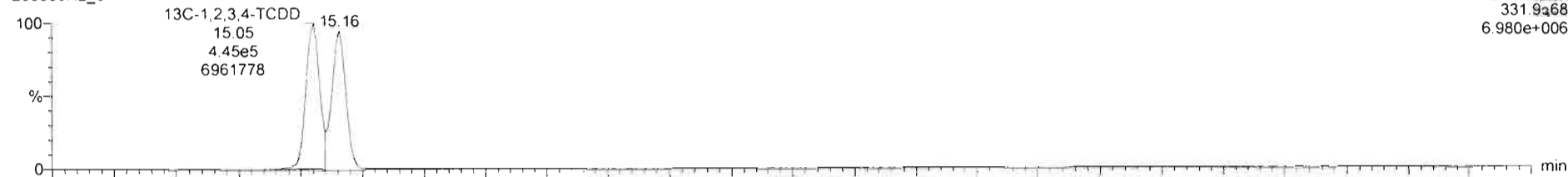
Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:22:54 AM Pacific Daylight Time

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

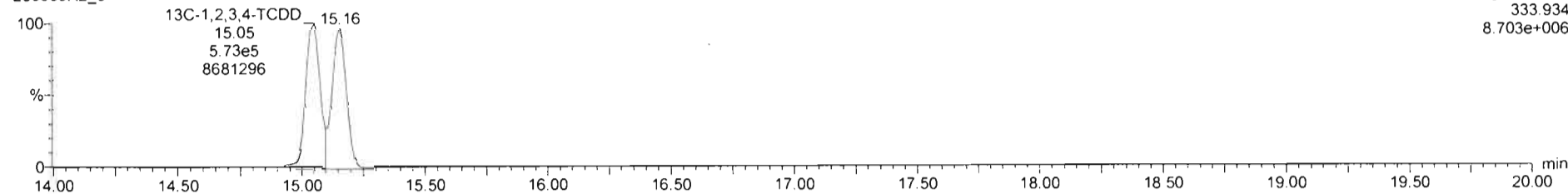
13C-1,2,3,4-TCDD

200309R2_9



Voltage SIR, EI+
331.9268
6.980e+006

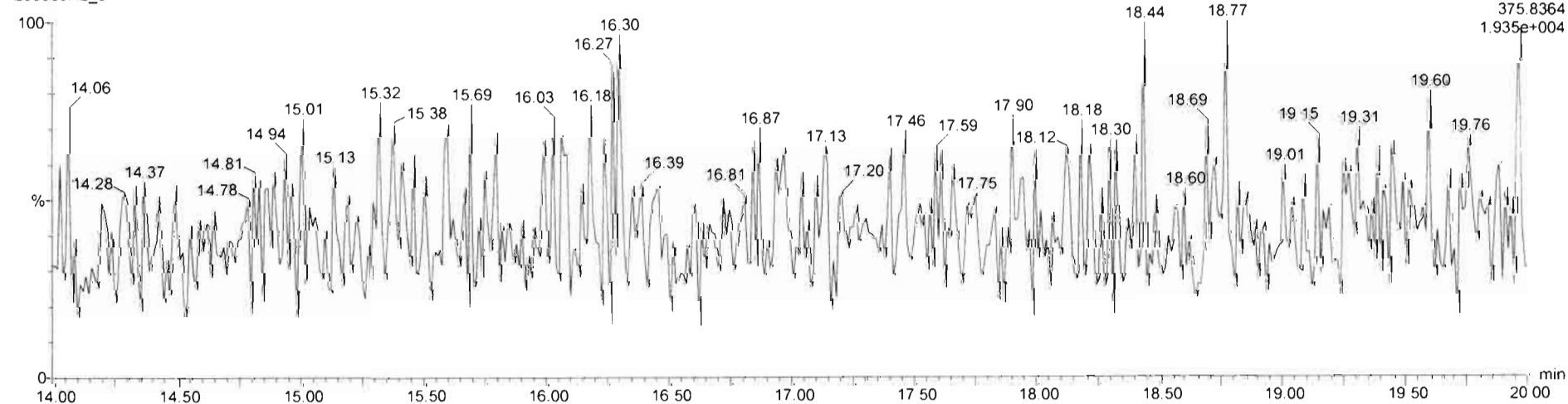
200309R2_9



Voltage SIR, EI+
333.934
8.703e+006

DPE1

200309R2_9



Voltage SIR, EI+
375.8364
1.935e+004